

HOW TO ORDER



Our aim is to make ordering as quick, easy and convenient as possible. Our products are available via a comprehensive network of stockists throughout the UK, Ireland and the rest of the world.

Our Distributors hold stock of fast-moving items. If they do not have the specific item that you require, they can order it from us and we will deliver it promptly.

Finding your local Stockist is quick and easy, either visit www.sealey.co.uk or call us on the number shown below.



+91 9380647428

+91 8073843541



info@vandita-technovations.in



www.vandita-technovations.in

Our call centre is open between 8.30am to 5.30pm Monday to Friday. Calls are immediately passed to the first available operator without any complicated routing process. Our experienced, professional and friendly advisors can provide instant stock availability, pricing and technical information.

Our authorised stockists can order direct from us via telephone, email, fax or online using our B2B (Business to Business) website. Here, you can place your order at a time that suits you and view instant stock availability and pricing.

HUGE STOCKS & FAST DESPATCH

We hold over £30million worth of stock. Modern, computer controlled warehousing enables, on average, 99.8% of our entire product range to be despatched straightaway.

Some items in our Catalogue are very heavy and extra assistance is recommended at the delivery point to help unload. Look out for this logo on products affected.



1	HAND TOOLS	14-264
2	JACKING & LIFTING	265-324
3	MOTORCYCLE TOOLS	325-353
4	BATTERY CHARGERS	354-377
5	VEHICLE SERVICE TOOLS	378-629
6	LUBRICATION	630-677
7	BODYSHOP	678-729
8	AIR POWER TOOLS	730-764
9	COMPRESSORS	765-796
10	WELDING & CUTTING	797-819
11	ELECTRIC POWER TOOLS	820-857
12	POWER TOOL ACCESSORIES	858-912
13	LIGHTING & POWER	913-953
14	STORAGE & WORKSTATIONS	954-1073
15	HEATING & COOLING	1074-1095
16	JANITORIAL, MATERIAL HANDLING & LEISURE	1096-1176
17	MACHINE SHOP	1177-1236
18	SAFETY PRODUCTS	1237-1264
19	CONSUMABLES	1265-1331
INDEX - MODEL NO.		1332-1362
INDEX - DESCRIPTIVE		1363-1370

VEHICLE SERVICE TOOLS

SECTION 5

[back to
SECTION LIST](#)



Battery & Alternator Tools
484 - 489

Diagnostic Tools
453 - 477

Feeler Gauges
510 - 511

Brake & Clutch Tools
541 - 559

Digital Thermometers
460

Fuel & Injection Tools
446 - 451

Carbon Cleaner
514

Door Repair Tools
608

Glow Plug Tools
498

Commercial Vehicle Tools
615 - 623

DPF Cleaner
515

Headlamp Beam Setters
586

Compression Tools
443 - 445

Electric Vehicle Tools
490 - 493

Hose Clip Tools
522 - 524

Cooling Leak Detection
494

Engine Tools
504 - 507

Hub Tools
587 - 588

Cooling System Tools
517 - 521

Exhaust Fume Extractors
516

Ignition Timing Tools
478

CVJ Service Tools
526 - 527

Exhaust Tools
512 - 513

Induction Heaters
508 - 509

SECTION 5

[back to
SECTION LIST](#)

Injector Tools

499 - 503

Spark Plug Tools

496 - 497

Tyre Fitting Equipment

567 - 569

Leak Detection Tools

452

Steering Rack Tools

582

Tyre Inflators

570 - 575

Mechanic's Mats

525

Suspension Tools

589 - 601

Tyre Pressure Gauges

576 - 577

MOT Tools

585 - 586

Terminal & Wire Tools

479 - 481

Tyre Repair Tools

579 - 581

Multimeters & Testers

464 - 475

Test Probes

475

Video Borescopes

461 - 463

Oil Service Tools

529 - 540

Thread Chasers

624

Wheel Alignment Tools

583 - 584

Oxygen Sensor Tools

495

Thread Repair Sets

528

Wheel Nut Sockets

560 - 566

Pullers

625 - 629

Timing Tools

380 - 442

Windscreen Tools

605 - 607

Radio Release Tools

609

Trim Tools

612 - 613

Wing Covers

604

Scrapers & Picks

610 - 611

Tyre Depth Gauges

578

Wire Tools

482 - 483

Use our online Timing Tool Kit Finder to search for kits that are relevant to your vehicle.

www.sealey.co.uk/timing-tools

Technical Hotline

If you can't find the details, or the answer you require from the Timing Tool Kit Finder, it's not a problem. Sealey have a fully trained technical sales team to provide additional assistance when required.

Tel: 01284 757505 Email: technical@sealey.co.uk

Timing Tool Kit Finder

The Timing Tool Kit Finder lists all vehicle applications, date ranges and engine codes. Simply select the make and model of your vehicle from the drop down menus and click on the picture of the Timing Tool Kit for more information.

UK Vehicle REG:

ENTER REG

Search

Make

Select Make

Engine Code

Select Engine Code

Model

Select Model

Engine Size

Select Engine Size

Year From

Select Year From

Reset

Search

Make	Type	Fuel	Drive	Kit	Page
Alfa Romeo					
Alfa Romeo	1.3D JTD(M)	D	Chain	VSE5881A	386
Alfa Romeo	1.3D JTD(M)	D	Chain	VSE6191	386
Alfa Romeo	1.6D, 1.9D, 2.0D, 2.4D JTD/Multijet	D	Belt	VSE5961	385
Alfa Romeo	1.7D/DT, 1.9D/DT	D	Belt	VSE2512	385
Alfa Romeo	0.9 Twin Air		P Chain	VSE2514	387
Alfa Romeo	1.2, 1.4, 1.4T-Jet 16v		P Belt	VSE2511A	388
Alfa Romeo	1.4 MultiAir		P Belt	VSE6161	388
Alfa Romeo	1.6, 1.8 16v		P Belt	VSE131	424
Alfa Romeo	TDC Position Tool		P Belt	VSE2515	386
Alfa Romeo	Mini Dial Gauge		P Belt	AK9634M	1224
Alfa Romeo	Variator Wrench - Variable Valve Timing Unit		P Belt	VSE5885	385
BMW					
BMW	2.0D, 3.0D M47/M57	D	Chain	VSE5666	389
BMW	2.0D, 3.0D N47/N57	D	Chain	VSE6121A	389
BMW	2.0D, 3.0D N47/N57 Crankshaft Holding Tool	D	Chain	VSE6121.05	389
BMW	Injection & HP Pump Sprocket Remover/Retainer	D	Chain	VSE5664	389
BMW	Fuel Pump Remover/Sprocket Retainer	D	Chain	VSE5665	389
BMW	1.8 - 3.0 M42/M50/M52/M52TU/M54/M56		P Chain	VSE4425	391
BMW	1.5, 2.0 3.0 B38		P Chain	VSE6122	390
BMW	1.6 N13, N18		P Chain	VSE5982	394
BMW	2.0 N20		P Chain	VSE6188	393
BMW	1.8-2.0 N42/46 Flywheel Locking Pin		P Chain	VSE5911MW	392
BMW	Twin Vanos Service Kit - M52TU/M54/M56		P Chain	VSE5906	391
BMW	1.6, 1.8, 1.9 M43		P Chain	VSE118	391
BMW	1.6 N40/N45/N45T		P Chain	VSE5981	392
BMW	1.6, 2.0 N43		P Chain	VSE6001	392
BMW	Camshaft Carrier Bracket Remover & Installer Tool Kit		P Chain	VSE5926	392
BMW	1.8, 2.0 N42/N46/N46T		P Chain	VSE5911A	393
BMW	1.4, 1.6 16v EP3/EP6 Balance Shaft Alignment Kit		P Chain	VSE6156	394
BMW	2.5, 3.0, N51/N52/N52K/N53/N54		P Chain	VSE6111	394
BMW	N55 Bridge Adaptor Bar		P Chain	VSE6111.08	394
BMW	4.4 V8 Including Vanos		P Chain	VSE5555	395
BMW	3.6, 4.0, 4.4, 4.8 V8 N62/N62TU + 6.0 V12 N73		P Chain	VSE6166	395
BMW	Crankshaft Pulley Bolt Removal/Installation Kit N62/N73		P Chain	VSE6168	395
BMW	Flywheel Holding Tool	D	P Chain	VSE5660	395
BMW	Timing Chain Wear Indicator Tool		P Chain	VSE2381	390
BMW	Vanos Unit Socket 22mm 16-Point 1/2" Sq Drive		P Chain	VSE6134	390
BMW	Crankshaft Turning Tool Kit	D	P Chain	VSE2398	393
BMW	Oil Pump and Balance Shaft Alignment Kit		P Chain	VSE6198	393
Chevrolet					
Chevrolet	1.6, 1.8 Twinport		P Belt	VSE5006	385
Chevrolet	1.6, 1.6, 1.8 16V		P Belt	VSE131	424
Chevrolet	1.8 16v		P Belt	VSE5005	423
Chevrolet	1.8 16v		P Belt	VS1700	422
Chrysler/Jeep					
Chrysler	1.6 W10		P Chain	VSE119	391

Make	Type	Fuel	Drive	Kit	Page
Chrysler/Jeep	2.5D, 2.8D CRD	D	Belt	VSE5056	396
Citroen/Peugeot					
Citroen/Peugeot	1.4D, 1.6D HDi	D	Belt	VSE5846	397
Citroen/Peugeot	1.4D, 1.6D, 2.0D, 2.2D HDi DV4/DV6/DW10/DW12	D	Belt	VSE5930	397
Citroen/Peugeot	2.2D HDi	D	Chain	VSE5036	397
Citroen/Peugeot	2.2D HDi 4HU/4HV	D	Chain	VSE5842	402
Citroen/Peugeot	2.3D, 3.0D	D	Belt/Chain	VSE5037	387
Citroen/Peugeot	3.0D SDV6/TDV6/TDVi/HDi	D	Belt	VSE5000A	398
Citroen/Peugeot	2.8D TDi/HDi	D	Belt	VSE5976	387
Citroen/Peugeot	1.0 - 1.0 VTi, 1.2 VTi		P Belt	VSE5092	401
Citroen/Peugeot	Crankshaft Pulley Holder 1.0 - 1.0 VTi, 1.2 VTi		P Belt	VSE5093	400
Citroen/Peugeot	Timing Belt Wear Gauge 1.0 - 1.0 VTi, 1.2 VTi		P Belt	VSE5094	401
Citroen/Peugeot	1.4, 1.6 16v ET4 (KFU, KFW, KFW)		P Belt	VSE5046	398
Citroen/Peugeot	1.4, 1.6 16v EP3/EP6		P Chain	VSE6131	390
Citroen/Peugeot	1.4, 1.6 16v EP3/EP6 Balance Shaft Alignment Kit		P Chain	VSE6156	402
Citroen/Peugeot	1.8, 2.0 16v EW7/EW10		P Belt	VSE5936	398
Citroen/Peugeot	1.8, 2.0, 2.2 16v EW7/EW10/EW12		P Belt	VSE5946	399
Citroen/Peugeot	Flywheel Holding Tool	D	P Belt	VSE2394	441
Citroen/Peugeot	Camshaft Sprocket Puller	D	Belt	VSE50422	406
Citroen/Peugeot	Master Timing Tool Kit	D	P Belt/Chain	VS5300MK	400
Dacia					
Dacia	1.5D dCi K9K	D	Belt	VSE5871A	421
Dodge					
Dodge	2.0D CRD	D	Belt	VSE5951	426
Fiat/Lancia/Iveco					
Fiat/Lancia	1.3D JTD(M)	D	Chain	VSE6191	386
Fiat/Lancia	1.6D, 1.9D, 2.0D, 2.4D JTD/Multijet	D	Belt	VSE5961	385
Fiat	1.7D/DT, 1.9D/DT	D	Belt	VSE2512	385
Fiat	2.0D, 2.2D JTD	D	Belt	VSE5930	397
Fiat/Iveco	2.5D/DT, 2.8D Tdi	D	Belt	VSE5976	398
Fiat/Iveco	2.2D, 2.3D/3.0D JTD	D	Belt/Chain	VSE5036	397
Fiat	2.2D JTD	D	Chain	VSE5842	402
Fiat/Iveco	2.3D, 3.0D	D	Belt/Chain	VSE5037	398
Fiat/Lancia	1.2, 1.4 16v		P Belt	VSE5061	388
Fiat/Lancia	1.2, 1.4, 1.4T-Jet 16v		P Belt	VSE2511A	388
Fiat	1.4 MultiAir		P Belt	VSE6161	388
Fiat/Lancia	1.6 16v		P Belt	VSE2513	388
Fiat	1.6, 1.8 16v		P Belt	VSE131	424
Fiat/Lancia	TDC Position Tool		P Belt	VSE2515	386
Fiat	Variator Wrench - Variable Valve Timing Unit		P Belt	VSE5885	385
Fiat	Flywheel Holding Tool	D	P Belt	VSE2394	441
Ford					
Ford	1.3D JTD(M)	D	Chain	VSE5881A	422
Ford	1.4D, 1.6D TDCi, 1.8D Tci/TDCi/TDdi, 2.0D/2.2D TDCi, 1.25, 1.4, 1.6, 1.8, 2.0, 2.3 16v	D	P Belt/Chain	VSE5042A	405
Ford	Camshaft Sprocket Puller		Belt	VSE50422	406
Ford	Timing Cover/Pulley Alignment Bracket		P Belt	VSE5860	406
Ford	1.4D, 1.6D TDCi	D	Belt	VSE5846	397
Ford	1.4D, 1.6D TDCi, 1.8DT/TDCi/TDdi, 2.0D TDCi	D	Belt	VSE5941	399
Ford	1.8D Turbo/TDdi/TDCi/ECONetic	D	Belt	VSE5843	403
Ford	1.9D TDi PD	D	Belt	VSE5951	426
Ford	Camshaft Pulley Alignment Pins	D	Belt	VSE6712	404
Ford	2.0D, 2.2D, 2.4D, 3.2D Di/TDCi/TDdi-Duratorq	D	Chain	VSE5842	402
Ford	Timing Tool & Fuel Injection Pump Kit 2.0D, 2.2D, 2.4D, TDCi/Duratorq	D	Chain	VSE6940	403
Ford	2.0D EcoBlue	D	Chain	VSE5640	404
Ford	2.0D EcoBlue Fuel Pump Removal Set	D	Chain	VSE6541	404
Ford	2.0D EcoBlue Front Pulley/Vibration Damper Puller	D	Chain	VSE6542	404
Ford	2.0D, 2.2D TDCi	D	Belt	VSE6126	402
Ford	2.2D	D	Chain	VSE5590	400
Ford	Oil Seal Fitting Kit 2.2D	D	Chain	VSE5862	407
Ford	2.2D/3.2D TDCi	D	Chain	VSE5863	403
Ford	Flywheel Timing Pin 2.2D TDCi	D	Chain	VSE5864	405
Ford	2.0D, 2.4D	D	Chain	VSE5841A	407
Ford	Flywheel Locking Set	D	P Belt	VSE5945	441
Ford	1.0 EcoBoost		P Belt	VS5150	408
Ford	Torque Multiplier 1.0 EcoBoost		P Belt	VSE5180	408
Ford	1.25, 1.4, 1.6, 1.8, 2.0, 2.3 16v Duratec		P Belt/Chain	VSE5515	406
Ford	1.2 8v		P Belt	VSE5061	388
Ford	1.25, 1.4, 1.6 16v		P Belt	VSE4143.32	406
Ford	1.6 EcoBoost		P Belt	VSE6560	409
Ford	1.6 EcoBoost Camshaft Alignment Plate		P Belt	VSE6562	409
Ford	1.6Ti-VCT, 1.6Ti-VCT FFV		P Belt	VSE5041A	408
Ford	1.6, 2.0		P Belt/Chain	VSE6160	408
Ford	2.5		P Belt	VSE7680	405
Ford	Auxiliary Belt Tension Tool	D	Chain	VSE5944	407
Ford	Auxiliary Belt Tension Tool	D	P Belt/Chain	VSE6299	403
Ford	1.6, 1.8, 2.0, 2.3, 2.4, 2.5, 2.9, 2.5		P Belt	VS4387	407
Ford	Crankshaft Front Pulley Oil Seal Fitting Tool, 2.0D, 2.2TDCi, 2.4 & 3.2TDCi	D		VSE5862	407
Ford	Stretch Belt Installation Tool		P Belt	VS790	404

Make	Type	Fuel	Drive	Kit	Page
Ford	Vanos Unit Socket 22mm 16-Point 1/2" Sq Drive	P	Chain	VSE6134	409
Ford	Crankshaft Pulley Holding Tool	P	Chain	VSE5847	439
Ford	Master Timing Tool Kit	D P	Belt/Chain	VS5200MK	401
Honda					
Honda	Crankshaft Pulley Holder	D P	Belt	VSE5048	409
Honda	Crankshaft Pulley Holder	D P	Belt	VSE5048S	409
Hyundai					
Hyundai/Kia	1.1, 1.4, 1.6, 1.7 Fuel Pump Sprocket Remover	D	Chain	VSE5931	410
Hyundai/Kia	2.5D Fuel Pump Sprocket Remover	D	Chain	VSE5932	410
Hyundai/Kia	2.0D, 2.2D Fuel Pump Remover	D	Chain	VSE5933	410
Hyundai/Kia	Flywheel Holding Tool	D	Chain	VSE5935	410
Hyundai/Kia	1.6, 1.8, 2.0, 2.4	P	Belt	VSE5768	415
Hyundai/Kia	Hybrid Drive Belt Tensioner Compression Tool	P	Belt	VSE4309	410
Jaguar					
Jaguar	2.2D	D	Chain	VSE3029	411
Jaguar	2.0	P	Chain	VSE5394	413
Jaguar	2.7D, 3.0D	D	Belt	VSE5000A	412
Jaguar	3.2, 3.5, 4.0, 4.2 V8	P	Chain	VSE5091	413
Jaguar	3.2, 3.5, 4.0, 4.2 V8	P	Chain	VSE5096	412
Jaguar	5.0	P	Chain	VSE3445	412
Jaguar	Crankshaft Pulley Holder	P	Chain	VSE3448	409
Land Rover					
Land Rover	2.0D TD4/3.0D TD6	D	Chain	VSE5666	389
Land Rover	2.2D TD4	D	Chain	VSE6126	413
Land Rover	2.4D TD4	D	Chain	VSE5842	414
Land Rover	2.5D TD5	D	Chain	VSE5986	414
Land Rover	2.5D TD6	D	Chain	VS2541	438
Land Rover	300TDi EDC	D	Belt	VSE2302	412
Land Rover	3.0D SDV6/TDV6/TDVi/HDi	D	Belt	VSE5000A	412
Land Rover	3.0D SDV6/TDV6/TDVi/HDi Fuel Pump Holding Tool	D	Belt	VSE5312	412
Land Rover	Fuel Pump Remover/Sprocket Retainer	D	Chain	VSE5665	411
Land Rover	5.0 V8	P	Chain	VSE5010	414
Land Rover	3.2, 3.5, 4.0, 4.2 V8	P	Chain	VSE5096	412
Land Rover	Viscous Fan Spanners	D P	Chain	VSE3042	517
Land Rover	2.0	P	Chain	VSE5394	413
Land Rover	2.3	P	Chain	VSE3038	413
Land Rover	Crankshaft Sensor Trigger Wheel Installer	D	Belt	VS231	414
Land Rover	Crankshaft Pulley Holder	P	Chain	VSE3448	409
LDV					
LDV	2.0D, 2.4D	D	Chain	VSE5841A	407
LDV	2.4D	D	Chain	VSE5842	402
LDV	Flywheel Holding Tool	D	Belt	VSE2394	441
Lotus					
Lotus	Camshaft Locking Tool K Series Engines	P	Belt	VSE180B	414
Mazda					
Mazda	1.4D, 1.6D TDCi	D	Belt	VSE5846	397
Mazda	1.25, 1.4, 1.6, 1.8, 2.0, 2.3 16v Duratec	P	Belt/Chain	VSE5515	406
Mazda	1.25, 1.4, 1.6 16v	P	Belt	VSE4143.32	406
Mercedes Benz					
Mercedes Benz	Diesel Timing Chain Tool Kit	D	Chain	VSE4801	396
Mercedes Benz	Diesel/Petrol Timing Chain Tool Kit	D P	Chain	VSE4802	396
Mercedes Benz	1.5dCi	D	Belt	VSE4810	418
Mercedes Benz	M271 1.6, 1.8	P	Chain	VSE4816	415
Mercedes Benz	Crankshaft Pulley Holder M271 1.6, 1.8	P	Chain	VSE4819	415
Mercedes Benz	2.4, 2.6, 2.8, 3.2, 4.3, 5.0	P	Chain	VSE4808	415
Mercedes Benz	Belt Tensioner Tool	P	Chain	VSE4310	396
MG Rover					
MG Rover	Camshaft Locking Tool K Series Engines	P	Belt	VSE180B	414
MG Rover	2.0D M47R	D	Chain	VSE5666	389
Mini					
Mini	1.4, 1.6 16v N12/N14	P	Chain	VSE6131	417
Mini	1.6 W10, W11	P	Chain	VSE119	417
Mini	1.6 W10, W11 Crankshaft Pulley Remover	P	Chain	VSE1191	417
Mini	1.4, 1.6 16v EP3/EP6 Balance Shaft Alignment Kit	P	Chain	VSE6156	402
Mini	Mini Serpentine Belt Spanner Set	P	Chain	VSE6211	416
Mini	Engine Support Bracket	P	Chain	VS5214	416
Mini	Timing Chain Wear Indicator Tool	P	Chain	VSE2381	416
Mini	2.0D, 3.0D N47/N57	D	Chain	VSE6121A	389
Mini	1.5, 2.0, 3.0 B38	P	Chain	VSE6122	417
Mitsubishi					
Mitsubishi	1.9D Di-D F9Q	D	Belt	VSE5871A	421
Mitsubishi	2.0D Di-D	D	Belt	VSE5951	426
Mitsubishi	1.6, 1.8, 2.0, 2.4, 3.0, 3.5	P	Belt	VSE5768	415
Nissan					
Nissan	1.5D, 1.9D, 2.2D, 2.5D dCi K9K/F9Q/G9T/G9U	D	Belt	VSE5871A	421
Nissan	1.5D dCi K9K	D	Belt	VSE1901A	418
Nissan	2.0D, 2.3D dCi M9R/M9T	D	Chain	VSE5086A	418
Nissan	1.6, 2.0 16v	P	Belt	VSE5071	419

Make	Type	Fuel	Drive	Kit	Page
Nissan	1.6, 2.0 16v	P	Belt	VSE5071A	419
Nissan	2.2D/2.5D Injection Pump Locking Pin	D	Chain	VSE1630	419
Porsche					
Porsche	3.0D, 4.2D	P	Belt/Chain	VSE7171	427
Renault					
Renault	1.5D, 1.9D, 2.2D, 2.5D dCi K9K/F9Q/G9T/G9U	D	Belt	VSE5871A	421
Renault	1.5D dCi K9K	D	Belt	VSE1901A	418
Renault	1.9D, 2.5D, 2.8D	D P	Belt	VSE1903	418
Renault	2.0D, 2.3D dCi - M9R/M9T	D	Chain	VSE5086A	418
Renault	2.5D/DT, 2.8D dTi/dCi	D	Belt	VSE5976	398
Renault	Flywheel Holding Tool	D P	Belt	VSE2395	441
Renault	Flywheel/ Pulley Holding Tool	D P	Belt	VSE5032	422
Renault	1.4, 1.6, 1.8, 2.0 16v	P	Belt	VSE5071	419
Renault	1.4, 1.6, 1.8, 2.0 16v	P	Belt	VSE5071A	419
Renault	1.4, 1.6 16v K4J/K4M Camshaft Sprocket Holding Tool	P	Belt	VSE5734	419
Renault	1.8, 2.0 16v F4P/F4R(t) Camshaft Sprocket Holding Tool	P	Belt	VSE5033	419
Renault	1.5dCi	D	Belt	VSE4810	418
Renault	Injection Pump Locking Pin 2.2D/2.5D	D	Chain	VSE1630	419
Saab					
Saab	1.9D TiD/TTiD	D	Belt	VSE5886A	420
Saab	2.0D Dti, 2.2D DTi	D	Chain	VSE242	420
Saab	1.8i	P	Belt	VSE5005	423
Saab	1.8i	P	Belt	VS1700	422
Saab	2.5, 3.0 V6	P	Belt	VSE130	424
Subaru					
Subaru	Camshaft Locking Tool 2.0, 2.5	P	Belt	VSE5055	420
Subaru	Camshaft Locking Tool 2.0, 2.5	P	Belt	VSE5066	420
Subaru	Crankshaft Holding Wrench	P	Belt	VSE5977	420
Subaru	Crankshaft Turning Socket	P	Belt	VSE5980	420
Suzuki					
Suzuki	1.3D DDiS	D	Chain	VSE5881A	422
Suzuki	1.5D DDiS K9K	D	Belt	VSE1901A	418
Suzuki	1.5D DDiS K9K, 1.9D DDiS F9Q	D	Belt	VSE5871A	421
Suzuki	1.0, 1.2	P	Chain	VSE243	423
Vauxhall/Opel					
Vauxhall	1.3D CDTi	D	Chain	VSE5881A	422
Vauxhall	1.3D CDTi	D	Chain	VSE6191	386
Vauxhall	1.6 CDTi	D	Chain	VSE5013	421
Vauxhall	1.6 CDTi	D	Chain	VSE5020	425
Vauxhall	1.9D, 2.0D CDTi/ecoFLEX	D	Belt	VSE5886A	420
Vauxhall	1.9D, 2.0D, 2.5D Dti/CDTi	D	Belt	VSE5871A	421
Vauxhall	1.9D, 2.5D, 2.8D	D	Belt	VSE1903	418
Vauxhall	2.0D DTi, 2.2D DTi	D	Chain	VSE242	420
Vauxhall	2.0CDTi	D	Belt	VSE5740	425
Vauxhall	2.0CDTi Chain in Cylinder Head Kit	D	Chain	VSE5741	425
Vauxhall	2.0D	D	Belt	VSE5009	425
Vauxhall	2.0D, 2.3D dCi M9R/M9T	D	Chain	VSE5086A	418
Vauxhall	2.5D/DT, 2.8D dCi	D	Belt	VSE5976	398
Vauxhall	Fuel Pump Remover/Sprocket Retainer	D	Chain	VSE5664	411
Vauxhall	Crankshaft Holding Wrench	D P	Chain	VSE5015	424
Vauxhall	1.0, 1.2, 1.4/ecoFLEX	P	Chain	VSE243	423
Vauxhall	1.0, 1.2, 1.4/ecoFLEX	P	Chain	VSE5067	423
Vauxhall	1.0, 1.2, 1.4/ecoFLEX/Turbo	P	Chain	VSE5007	423
Vauxhall	1.0, 1.2, 1.4, 1.6	P	Chain	VS5235	421
Vauxhall	1.4, 1.6, 1.8 16v ecoTEC	P	Belt	VSE5005	423
Vauxhall	1.4-2.2 16v	P	Belt	VS4620	425
Vauxhall	1.4, 1.6, 1.8, 2.0, 2.2 16v ecoTEC	P	Belt	VS1700	422
Vauxhall	1.6, 1.6, 1.8 16V	P	Belt	VSE131	424
Vauxhall	1.6, 1.8 16v Twinport	P	Belt	VSE5006	422
Vauxhall	2.0 16v	P	Belt	VSE5071	419
Vauxhall	2.0 16v	P	Belt	VSE5071A	419
Vauxhall	2.5, 2.6, 3.0, 3.2 V6	D	Belt	VSE130	424
Vauxhall	2.5, 2.6, 3.0, 3.2 V6	P	Chain	VSE5875	424
Vauxhall	Crankshaft Holding Wrench 1.6D	D	Chain	VS5254	424
Vauxhall	Roller Tensioner Operating Tool, GM, Alfa Romeo, Fiat	D P	Belt	VSE5798	442
VAG					
VAG	1.2D, 1.4D, 1.9D TDi PD	D	Belt	VSE5951	426
VAG	1.2D, 1.4D, 1.6D, 1.9D, 2.0D	D	Belt	VSE2092	428
VAG	1.4D, 1.6D, 2.0D	D	Belt	VSE2090	428
VAG	1.4D, 1.6D, 2.0D	D	Belt	VS5170	426
VAG	1.4D, 1.6D, 2.0D	D	Belt	VSE6281	428
VAG	1.2D, 1.6D, 2.0D, 2.7D, 3.0D, 4.0D, 4.2D	D	Belt/Chain	VSE7171	427
VAG	1.2D, 1.6D, 2.0D TDi CR/1.4D, 1.9D, 2.0D TDi PD	D	Belt	VSE2356	428
VAG	1.2D, 1.6D, 2.0D TDi CR/1.4D, 1.9D, 2.0D TDi CR	D	Belt	VSE2358	429
VAG	1.9D/SDi/TDi Camshaft Setting Plate	D	Belt	VSE5850	432
VAG	1.7D, 1.9D/DT/SDi/TDi	D	Belt	VSE5851	429
VAG	2.0D Oil Pump Balance Shaft Locking Set	D	Belt	VSE5953	431
VAG	2.4D, 2.5D SDi/TDi/TDi CR	D	Belt	VSE5559	426

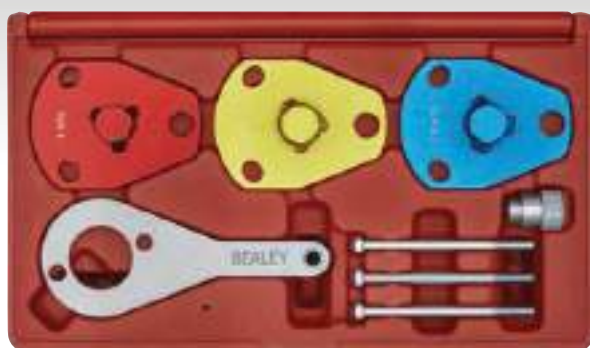
Make	Type	Fuel	Drive	Kit	Page	
VAG	Camshaft Sprocket Remover	D	P	Belt	VSE5959	431
VAG	Water Pump Pulley Wrench	D	P	Belt/Chain	VSE4977	428
VAG	2.5D V6	D		Belt	VSE2351	428
VAG	2.5D TDi PD	D		Gear	VSE6146	430
VAG	2.7D, 3.0D TDi V6 + 4.0D, 4.2D TDi V8	D		Chain	VSE6181	430
VAG	2.7D, 3.0D TDi Fuel Pump Drive Belt Kit	D		Chain	VSE3142	429
VAG	Combination Kit	D	P	Belt/Chain	VSE5044	427
VAG	1.0		P	Belt	VS5140	436
VAG	1.2, 1.2, 1.4 TSi		P	Belt	VSE5760	431
VAG	1.2 6v/12v		P	Chain	VSE5921	435
VAG	1.2, 1.4 TSi		P	Chain	VS5145	436
VAG	1.2, 1.4 TFSi + 1.4, 1.6 FSi		P	Chain	VSE5956A	435
VAG	1.2, 1.4 TFSi + 1.4, 1.6 FSi		P	Chain	VSE5988	436
VAG	1.2, 1.4 TFSi + 1.4, 1.6 FSi		P	Chain	VSE5950	436
VAG	1.2, 1.4 TFSi, 1.4 FSi		P	Belt	VSE2357A	436
VAG	1.2, 1.4 TSi		P	Chain	VSE7140	437
VAG	1.4 TFSi, FSi		P	Belt	VSE5047	437
VAG	1.4 TFSi, FSi		P	Belt	VSE6266	439
VAG	Crankshaft Pulley Holder 1.0, 1.2, 1.4 TSi		P	Belt	VSE6255	437
VAG	1.4, 1.6 16v Crankshaft Pulley Holding Tool		P	Belt	VSE23581	437
VAG	1.6, 1.8, 1.8T, 2.0 + 1.8/1.8T Chain in Head		P	Belt	VSE5851	429
VAG	1.8/1.8T, 2.0 FSi/TFSi/TSi, 2.0S/R		P	Belt	VSE6171	433
VAG	1.8/1.8T Chain in Head Service Kit		P	Belt	VSE5909	437
VAG	1.8, 2.0 TSi-TFSi		P	Chain	VSE4242	435
VAG	1.8, 2.0 TSi-TFSi Vibration Damper Holding Tool		P	Chain	VSE4251	434
VAG	1.8, 2.0 TSi-TFSi Camshaft Turning Socket		P	Chain	VSE6680	434
VAG	1.8, 2.0 TSi-TFSi Tensioner lever		P	Chain	VSE4243	434
VAG	1.8, 2.0 TSi-TFSi		P	Chain	VSE6236	434
VAG	1.8, 2.0 TSi-TFSi Crankshaft Pulley Wrench		P	Chain	VSE6237	439
VAG	2.4, 2.7T, 2.8 30v V6		P	Belt	VSE2354	432
VAG	2.5 5-Cylinder		P	Chain	VSE5025	433
VAG	2.8, 3.2		P	Chain	VS5138	431
VAG	3.0 30v V6		P	Belt	VSE5051A	432
VAG	3.7, 4.2 V8		P	Belt	VSE5938	432
VAG	4.2 V8		P	Chain	VSE7407	432
VAG	Crankshaft Turning Socket 2.5		P	Chain	VSE5058	433
VAG	Crankshaft Turning Socket 2.5		P	Chain	VSE5026	433
VAG	Service Position Front End Support Guide Set	D	P	Belt/Chain	VSE5852	426
VAG	Pulley Holding/Turning Set	D	P	Belt/Chain	VS754	431
VAG	Tensioner Adjuster Set	D		Belt	VSE5755	431
VAG	Water Pump Removal Kit	D		Gear	VSE6000	430
VAG	Camshaft Sprocket Hub Remover/Installer Set	D		Belt	VSE5952	430
VAG	Turbo Adjustment Set	D		Chain	VS2032	438
VAG	Crankshaft Sensor 4mm Ball Hex Key	D	P	Belt/Chain	VS0584	438
VAG	Camshaft Control Valve Removal Set		P	Chain	VSE2359	435
VAG	Master Timing Tool Set	D	P	Belt/Chain	VS5100MK	438
Volvo						
Volvo	1.6D	D		Belt	VSE5846	397
Volvo	2.0D	D		Belt	VSE6126	402
Volvo	1.6, 1.8, 2.0		P	Belt/Chain	VSE5515	440
Volvo	1.6 16v		P	Belt	VSE4143.32	406
Volvo	2.5		P	Belt	VS4387	407
Volvo	2.5		P	Belt	VSE7680	405
Volvo	3.0, 3.2		P	Chain	VSE5050	439
Volvo	Crankshaft Pulley Holding Tool		P	Chain	VSE5847	439
Volvo	Crankshaft Holding Tool	D	P	Belt	VSE6140	439
Universal						
Universal	Diesel/Petrol Crankshaft/Camshaft/Flywheel Locking Tools Kit	D	P	Belt	VSE180	440
Universal	Diesel Fuel Injection Pump Timing Tools Kit	D		Belt	VSE2242	441
Universal	Ratchet Action Auxiliary Belt Tension Tool Kit	D	P	Belt/Chain	VS784	442
Universal	Auxiliary Stretch Belt Removal/Installation Tool	D	P	Belt/Chain	VS787	442
Universal	Auxiliary Stretch Belt Removal/Installation Tool	D	P	Belt/Chain	VS788	442
Universal	Belt Tension Tester - Universal	D	P	Belt	VSE110	442
Universal	Belt Tension Tester - Universal	D	P	Belt	VSE120	442
Universal	Belt Holder	D	P	Belt/Chain	VSE880	442
Universal	Belt Tensioner Wrench Set 9pc	D	P	Belt	VS789	442
Universal	Universal Twin Camshaft Locking Tool	D	P	Belt	VSE888	440
Universal	Universal Pulley & Fan Clutch Holder Set	D	P	Belt/Chain	VS783	440
Universal	Flywheel Locking Tool	D	P	Belt	VSE2394	441
Universal	Flywheel Locking Tool	D	P	Belt	VSE2395	441
Universal	Crankshaft Pulley Removal Tool Set 14pc	D	P	Belt/Chain	PS997	441
Universal	550mm Impact Bar 1/2" Sq Drive	D	P	Belt/Chain	VS786	441
Universal	Universal Pulley Holder	D	P	Belt/Chain	VS4844	440
Universal	Universal Camshaft Alignment Tool	D	P	Belt/Chain	VSE889	441
Universal	Flywheel Turning Wrench	D	P	Belt/Chain	VS175	441

A



BELT

ALFA ROMEO
FIAT



A Timing Tool Kit - Alfa Romeo, Fiat - 1.7D/DT, 1.9D/DT - Belt Drive Model No. VSE2512

Suitable for timing belt replacement on 1.7D/DT & 1.9D/DT engines in Alfa Romeo and Fiat vehicles. Kit includes camshaft setting plates and crankshaft locking tool. Supplied in storage case.

OEM Tools: 1.860.931.000, 1.860.932.000, 1.860.933.000, 1.860.934.000

Applications:

Alfa Romeo: 145 (94-00), 146 (94-00), 155 (93-98), Bravo (95-97)

Fiat: Ducato (87-98), Fiorino (97-01), Punto (96-99), Strada Pickup (99-00), Talento (87-94), Tempra (90-96), Tipo (90-95)

Engine Codes:

Alfa Romeo:

1.9DT Turbo: 336.01, 675.01

Fiat:

1.7D: 176A3.000

1.7DT Turbo: 146D7.000, 176A3.000, 176A5.000, 176B7.000

1.9D: 149B1.000, 160A7.000, 230A2.000

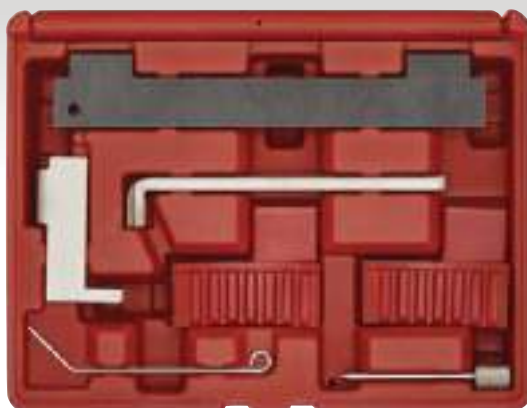
1.9DT Turbo: 160A6.000, 160B6.046, 160D1.000, 230A3.000, 230A4.000, 280A1.000

C



BELT

ALFA ROMEO
CHEVROLET
FIAT
VAUX/OPEL
SAAB



C Timing Tool Kit - Alfa Romeo, Fiat, GM, Saab 1.4, 1.6, 1.8 Twinport - Belt Drive Model No. VSE5006

Comprises camshaft setting tools and belt tensioner locking pins. Suitable for timing applications on all 1.4, 1.6 and 1.8 Twinport petrol engines with belt drive.

OEM Tools: KM-911, KM-6625/EN-6625/2.000.012.800, KM-6340/EN-6340/2.000.012.100, KM-6349/KM-6130/EN-6349, KM-6333/EN-6333, KM-6628-A/2.000.012.000

Applications:

Alfa Romeo: 159 (05-10)

Chevrolet: Aveo (08-14), Cruze (09-15), Orlando (11-15)

Fiat: Croma (06-11), Stilo (05-08)

Saab: 9-5 (10-12)

Vauxhall/Opel: Astra-G (03-10), Astra-H (04-13), Astra-J (09-15), Corsa-D (07-14), Insignia (08-13), Meriva-A (06-10), Mokka (12-15), Signum (06-08), Vectra-C (06-08), Zafira-B (05-14), Zafira-C Tourer (11-15)

Engine Codes:

1.4 16v: G14D

1.6: A16LEL, A16LER, A16LET, A16XER, LDE/A16LER, LDE/A16XER, LLU/A16LET, Z16LEL, Z16LER, Z16LET, Z16XE1, Z16XEP, Z16XER

1.6 ecoFLEX CNG: A16XNT, LGE/A16XNT, Z16XNT

1.8: 2HO/A18XEL, 2HO/A18XER, A18XER, Z18XER, 939A4.000

B



BELT

ALFA ROMEO
FIAT
LANCIA



B Timing Tool Kit - Alfa Romeo, Fiat, Lancia 1.6D, 1.9D, 2.0D, 2.4D - Belt Drive Model No. VSE5961

Suitable for setting and locking Alfa Romeo, Fiat and Lancia complete range of 1.6D, 1.9D, 2.0D JTD and Multijet engines as well as 2.4D 10v and 20v JTD. Kit contains flywheel holding tool to remove/install crankshaft pulley, crankshaft locking tool and camshaft setting tools. Supplied in storage case.

OEM Tools: 1.860.898.000, 2.000.003.000/1.860.905.000, 1.870.896.900, 1.860.905.01

Applications:

Alfa Romeo: 145 (98-01), 146 (98-01), 147 (01-10), 156 (97-08), 159 (05-12), 166 (98-08), Brera (05-11), Crosswagon (04-08), Giulietta (10-15), GT (04-10), MiTo (08-16), Spider (06-11)

Fiat: Brava/Bravo (98-02), Bravo (07-15), Croma (05-11), Doblo/Cargo/Workup (02-16), Grande Punto (05-10), Idea (04-12), Linea (07-11), Marea/Weekend (99-03), Multipla (99-11), Palio Weekend (02-06), Punto (99-06), Punto Evo (09-12), Sedici (06-13), Stilo (01-08), Strada Pick-Up (03-06)

Lancia: Delta (08-15), Kappa (98-02), Lybra (99-07), Musa (04-12), Thesis (02-07)

Engine Codes:

1.6D JTD/M: 198A2.000, 198A3.000, 198A6.000, 263A1.000, 263A4.000, 263A5.000, 350A2.000, 350A3.000, 940A3.000, 955A3.000, 955A4.000

1.9D JTD/M 8v: 323.02, 371.01, 182B4.000, 182B9.000, 186A6.000, 186A8.000, 186A9.000, 188A2.000, 188A7.000, 188B2.000, 192A1.000, 192A3.000, 192A8.000, 192A9.000, 192B4.000, 192B5.000, 199A5.000, 223A7.000, 223B1.000, 937A2.000, 937A3.000, 939A1.000, 939A7.000, D19AA

1.9D JTD/M 16v: 182.A7000, 192A5.000, 192B1.000, 223.A6000, 844A1.000, 937A4.000, 937A5.000, 937A6.000, 939A2.000, 939A8.000

2.0D JTD/M: 263A3.000, 844A2.000, 939B3.000, 939B4.000, 940A4.000, 940A5.000, D20AA

2.4JTD 10v: 325.01, 342.02, 362.02, 185A6.000, 838A8.000, 839A5.000, 839A6.000, 841C.000

2.4JTD 20v: 939A3.000, 939A9.000, 841G.000, 841H.000, 841M.000

D



BELT

ALFA ROMEO
FIAT

D Variator Socket - Variable Camshaft Timing Unit - Belt Drive Model No. VSE5885

Specialised socket for the removal and installation of the variable camshaft timing variator unit fitted on Alfa Romeo and Fiat twin cam petrol engines.

Contents: VVC Variator Socket

Applications: Alfa Romeo, Fiat

A



CHAIN

ALFA ROMEO
FIAT
FORD
PSA
SUZUKI
VAUX/OPEL



A Timing Tool Kit - Alfa Romeo, Fiat, Ford, GM, Lancia, Suzuki 1.3D JTD(M)/TDCi/DDiS/CDTi - Chain Drive

Model No. **VSE5881A**

Suitable for timing the camshaft and crankshaft, on chain drive 1.3 diesel engines. Set also includes a tensioner locking pin. Supplied in storage case.

OEM Tools:

Alfa Romeo/Fiat/Lancia:	1.871.00.900
Citroen:	104-A, 0198-J
Ford:	303-1472
Peugeot:	104-A, 0198-J
Suzuki:	09912-38300, 09916-98610, 09917-68610
Vauxhall/Opel:	EN-46781, EN-46785, KM-955

Applications:

Alfa Romeo:	MiTo (08-16)
Citroen:	Nemo (10-16)
Fiat:	500 (07-16), Doblo/Cargo (04-10), Fiorino (08-16), Grande Punto (05-11), Idea (04-12), Linea (07-11), Panda (03-16), Punto (03-11), Punto Evo (09-14), Qubo (08-16)
Ford:	Ka (09-15)
Lancia:	Musa (04-13), Ypsilon (03-15)
Peugeot:	Bipper (10-16)
Suzuki:	Ignis (03-09), Splash (08-11), Swift (06-14), Wagon R+ (03-08)
Vauxhall/Opel:	Agila (03-08), Agila-B (08-10), Astra-H (04-11), Astra-J (09-15), Combo-C (03-12), Corsa-C (03-12), Corsa-D (06-14), Meriva-A (04-10), Meriva-B (10-15), Tigra-B (04-10)

Engine Codes:

Alfa Romeo JTD Multijet:	199A3.000, 199B1.000
Citroen:	F13DTE5 (FHZ)
Fiat JTD Multijet:	169A1.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 223A9.000
Ford TDCi:	169A1.000(FD4)
Lancia JTD Multijet:	188A9.000, 199A3.000, 199B1.000
Peugeot:	(FHZ)F13DTE5
Suzuki DDiS:	D13A, Z13DT, Z13DTJ, Z13DTJ Eco
Vauxhall/Opel CDTi:	A13DTC, A13DTE, A13DTR, D13A, LDV/A13DTC, LSF/A13DTE, Y13DT, Y13DTH, Z13DT, Z13DTi, Z13DTH, Z13DTJ, Z13DTR

C



CHAIN

ALFA ROMEO
FIAT



C M14 x 1.25mm TDC Position Tool - Alfa Romeo, Fiat - Chain Drive

Model No. **VSE2515**

Used in conjunction with Model No. AK9634M dial gauge (not included) and enables accurate interpretation of piston position relative to TDC.

OEM Tools:	1.825.013.000, 1.860.895.000
------------	------------------------------

Applications:

Alfa Romeo:	1.4, 1.6, 1.8, 2.0 16v Twin Spark, 2.0JTS
Fiat:	1.6, 1.8 16v, 2.0 20v, 2.4 20v

B



CHAIN

ALFA ROMEO
FIAT
FORD
PSA
SUZUKI
VAUX/OPEL



B Timing Tool Kit - Alfa Romeo, Fiat, Ford, PSA, Suzuki, GM 1.3D 16v - Chain Drive

Model No. **VSE6191**

Suitable for a range of 1.3 16v common rail diesel engines used by a number of vehicle manufacturers. The chain drive connects the crankshaft to the exhaust camshaft which in turn is connected by gears to the inlet camshaft. This overhaul kit is designed to minimize the level of disassembly, so the cylinder head/camshafts can be removed without removing the front timing cover, sprockets and timing chain.

OEM Tools:

Alfa Romeo/Fiat/Lancia:	1.871.00.900, 1.871.000.200, 1.871.008.600, 1.870.900.400
Citroen:	104-A
Ford:	303-1472, 303-1475, 303-1469
Peugeot:	198-J
Suzuki:	09917-68610, 09916-98610, 09912-38300, 09912-46310, 09917-68221
Vauxhall/Opel:	EN-46781, EN-46785, KM-662-C, KM-955

Applications:

Alfa Romeo:	MiTo (08-16)
Citroen:	Nemo (10-16)
Fiat:	500 (07-16), Panda (03-13), Punto (03-16), Punto Evo (09-12), Grande Punto (05-11), Linea (07-11), Qubo (08-15), Idea (04-12), Doblo/Doblo Cargo (04-14), Strada Pick-up (06-16), Fiorino (08-16)
Ford:	Ka (09-15)
Lancia:	Ypsilon (03-15), Musa (04-11)
Peugeot:	Bipper (10-16)
Suzuki:	Swift (04-14), Ignis (03-09), Wagon R+ (03-08), Splash (08-11)
Vauxhall/Opel:	Agila (03-08), Agila-B (08-10), Corsa-C (03-07), Corsa-D (06-14), Astra-H (04-11), Astra-J (09-12), Tigra-B (04-10), Combo-C (03-12), Meriva-A (04-10), Meriva-B (10-15)

Engine Codes:

1.3D 16v:	199A3.000, 199B1.000, FHZ(F13DTE5), 169A1.000, 188A8.000, 169A5.000, 199A9.000, 188A9.000, 199B2.000, 199A2.000, 223A9.000, 199A3.000, 263A2.000, 169A1.000(FD4), 843A2.000, (FHZ)F13DTE5, D13A, Z13DT, Z13DTJ, A13DTC, A13DTE, A13DTR, Z13DTH, Z13DTR, Z13DTI.
-----------	---

D

MM

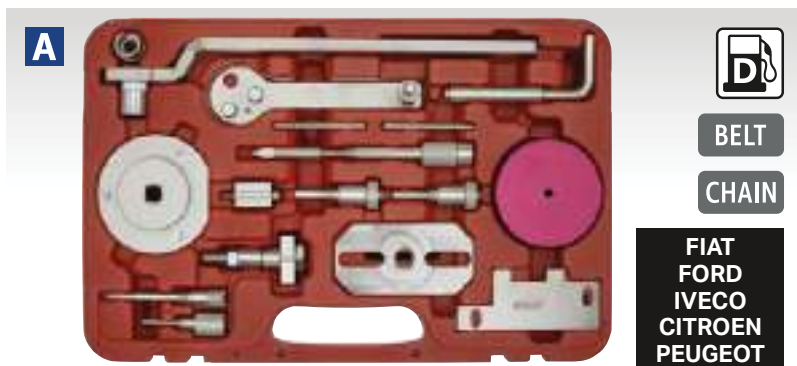


D Metric Dial Gauge Indicator

Model No. **AK9634M**

Compact design and precision mechanism, ideal for automotive applications and general purpose workshop use. Ø41mm Dial and rotating bezel.

Deflection/Travel:	8mm
Graduation:	0.01mm
Shank Size:	Ø8mm



BELT

CHAIN

FIAT
FORD
IVECO
CITROEN
PEUGEOT

A Timing Tool Kit - Fiat, Ford, Iveco, PSA - 2.2D, 2.3D, 3.0D Belt/Chain Drive Model No. VSE5036

Used for timing 2.2/2.3/3.0D belt and chain drive engines, including the later chain in head versions, usually found in light commercial vehicles. Features a water sensor installation socket, crankshaft turning tool, timing cover centring plate, oil pump setting plate as well as camshaft and crankshaft locking tools. These engines are also found in the Ford Transit. Supplied in storage case.

OEM Tools:

Fiat/Iveco: 1.860.617.000/99360608, 2.000.016.500/99360614, 2.000.018.200/99360615

Citroen/Peugeot: 0191/2A, 0191/2B, 0198A, 0198B2, 0198D, 0198G

Ford: 303-698, 303-705/21-256

Applications:

Citroen: Relay/Jumper III (06-12)

Fiat: Ducato (02-13)

Iveco: Daily (03-10), Daily/EcoDaily (09-11)

Peugeot: Boxer III (06-12)

Engine Codes:

Citroen/Peugeot:

2.2D Hdi: 4HM, 4HV

Fiat:

2.2D Multijet 100: 4HV

2.3D JTD: F1AE0481C

2.3D Multijet: F1AE0481D, F1AE0481N, F1AE3481E

3.0D Multijet: F1CE0481D, F1CE3481E, FCE13481M, F1CE3481N

Iveco:

2.3D: F1AE0481A, F1AE0481B, F1AE0481F, F1AE0481FA, F1AE0481G, F1AE0481GA, F1AE0481H, F1AE0481HA, F1AE0481R, F1AE0481RA, F1AE0481UA, F1AE0481VA

3.0D: F1CE0481A, F1CE0481B, F1CE0481F, F1CE0481H



CHAIN



ALFA ROMEO
FIAT
LANCIA

C Timing Tool Kit - Alfa Romeo, Fiat, Lancia 0.9 Twin Air - Chain Drive Model No. VSE2514

Allows crankshaft and camshaft to be locked into position for the removal and replacement of the timing chain. Includes crankshaft pulley locking pin to secure the crankshaft pulley for centre bolt removal.

OEM Tools: 2.000.035.100, 2.000.035.200, 2.000.035.300

Applications:

Alfa Romeo: MiTo (12-18)

Fiat: 500/500C (10-20), 500/500L (10-20), Panda (12-20), Punto (12-18)

Lancia: Ypsilon (11-15)

Engine Codes:

0.9 Twin Air: 199B6.000, 312A2.000, 312A4.000, 312A5.000, 312A6.000, 312A7.000



BELT

CHAIN

FIAT
IVECO
CITROEN
PEUGEOT

B Timing Tool Kit - Fiat, Iveco, Citroen, Peugeot - 2.3D, 3.0D Belt/Chain Drive Model No. VSE5037

Suitable for setting and locking Fiat 2.3D JTD diesel engine (belt driven), Fiat 3.0D JTD diesel engine (chain driven) and Citroen/Peugeot 3.0D HDI diesel engine (chain driven). Set comprises camshaft setting pins, crankshaft locking pin and sensor locking pin.

OEM Tools: 99360614/(-), 0191/2.B, 99360615/2.000.018.200/(-), 191/2.A, 99360608/1.860.617.000

Applications:

Citroen: Relay/Jumper III (06-14)

Fiat: Ducato (02-11)

Iveco: Daily (03-10), Daily/EcoDaily (09-11)

Peugeot: Boxer III (06-14)

Engine Codes:

2.3D: F1AE0418A, F1AE0481B, F1AE0481C, F1AE0481D, F1AE0481F, F1AE0481FA, F1AE0481G, F1AE0481H, F1AE0481HA, F1AE0481N, F1AE0481R, F1AE0481UA, F1AE0481VA

3.0D: F1CE01481D, F1CE0441F, F1CE0481A, F1CE0481B, F1CE0481F, F1CE0481FA, F1CE0481H, F1CE3418M, F1CE3481CC, F1CE3481LC

3.0HDI: F30DTE; (F1CE0481D), (F1CE3481DM), (F1CE3481N)



BELT

FIAT
CITROEN
IVECO
PEUGEOT
RENAULT
VAUX/OPEL

D Timing Tool Kit - Fiat, Iveco, PSA, Renault, GM 2.5D, 2.8D - Belt Drive Model No. VSE5976

Includes locking pins for 2.5D and 2.8D diesels and later 2.8DTi/JTD/HDi variants of this popular van engine. Also includes a tensioner retaining tool which retains the tension plunger in a retracted position during the belt change.

OEM Tools: 1.860.617.000/99360608-A60617/Mot910/KM-966, 1.860.638.000, Mot1054/KM-6031

Applications:

Citroen: Relay/Jumper (01-02), Relay/Jumper II (02-06)

Fiat: Croma (86-97), Ducato (86-06), Talento (87-94)

Iveco: Daily (91-06), Turbo Daily (91-00)

Peugeot: Boxer (00-02), Boxer II (02-06)

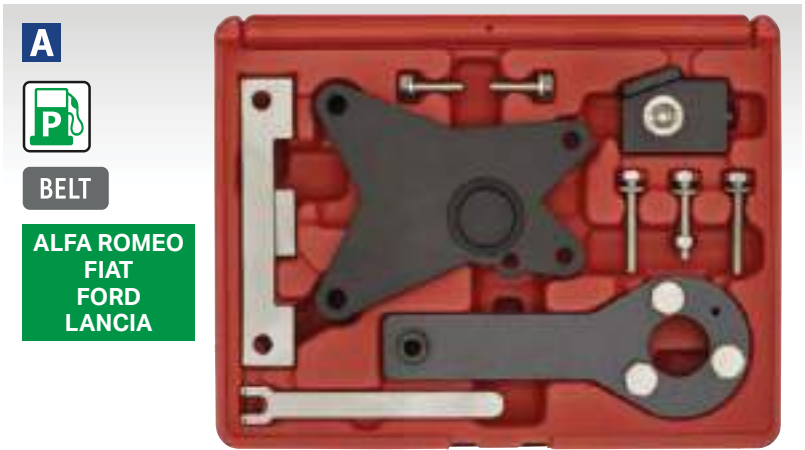
Renault: Mascot (99-07), Master (89-98), Master II (98-01), Trafic (80-00)

Vauxhall/Opel: Arena (97-01), Movano-A (98-03)

Engine Codes:

2.5D/DT: 8140.07, 8140.27, 8140.47, 8140.97, 8144.21, 8144.61, 8144.67, 8144.91, 8144.97, 8140.27S, 8140.47R, 8140.67F.37, 8144.97Y, S8U 720, S8U 722, S8U 730, S8U 731, S8U 742, S8U 748, S8U 750, S8U 752, S8U 758, S8U 770, S8U 772, S8U 780, S8U 782, S9U 700, S9U 702, S9U 704, S9U 714, S9U 740

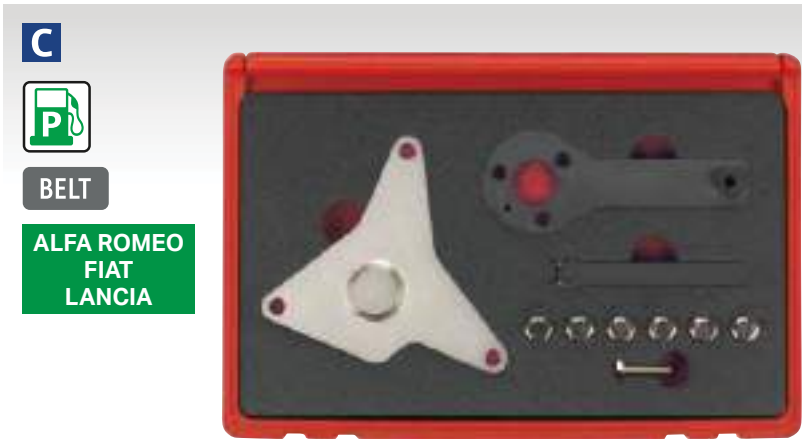
2.8D/TDi/HDi/dCi: 8140.43S, 8140.43, 8140.63, 8140.23.37, 8140.23.38, 8140.43.37, 8140.43B, 8140.43C, 8140.43N, 8140.43R, 8140.43S, S9W 206, S9W 208, S9W 212, S9W 700, S9W 702



A Timing Tool Kit - Alfa Romeo, Fiat, Ford, Lancia 1.2, 1.4 8v Belt Drive
Model No. **VSE5061**

Consists of camshaft setting plate, crankshaft locking tool and belt tensioner adjuster for the 1.2 engine. Additional sprocket locking tool and alignment fixture for the camshaft sensor on the 1.4 VVT engine.

OEM Tools:	
Fiat:	1.860.987.000, 2.000.004.200, 2.000.004.300, 2.000.004.400, 2.000.004.500
Ford:	303-1477, 303-1478, 303-1479, 303-1480
Applications:	
Alfa Romeo:	MiTo (10-15)
Fiat:	500 (07-15), 500C (07-15), Doblo/Cargo (05-10), Fiorino (09-15), Grande Punto (07-12), Idea (05-12), Linea (07-11), Panda/Panda Classic (09-13), Panda EVO2 (05-12), Punto EVO (09-12), Punto (12-15), Qubo (09-15), Seicento/600 (00-11)
Ford:	Ka (09-15)
Lancia:	Musa (05-13), Ypsilon (06-15)
Engine Codes:	
Fiat:	1.1 8v; 187A1.000, 1.2/1.2 Dualogic; 169A4.000, 188A4.000 (EVO2 only), 199A4.000, 1.4/1.4 Bi-Fuel LPG/1.4 Natural Power-CNG; 199A7.000, 350A1.000
Ford:	1.2 Duratec; 169A4.000(FP4)
Lancia:	1.2 8v; 188A4.000, 1.4/1.4 Bi-Fuel LPG; 350A1.000



C Timing Tool Kit - Alfa Romeo, Fiat 1.4 MultiAir - Belt Drive
Model No. **VSE6161**

Suitable for Alfa Romeo, Fiat 1.4 MultiAir - belt drive engines. The MultiAir engine replaces the inlet camshaft with an electro/hydraulic system operating the inlet valves. Kit includes a camshaft setting plate, crankshaft locking tool, tensioner adjuster, warning tag and full instructions.

OEM Tools:	
2000034400, 2000004500	
Applications:	
Alfa Romeo:	Guilietta (10-19), MiTo (09-18)
Fiat:	Bravo (10-15), Punto Evo (09-12), Punto (12-14)
Lancia:	Delta (10-13)
Engine Codes:	
1.4 MultiAir:	198A7.000, 940A2.000, 955A2.000, 955A6.000, 955A7.000, 955A8.000
Associated Tool:	VS783 - Universal Pulley & Fan Clutch Holder Set (see page 440)



B Timing Tool Kit - Alfa Romeo, Fiat, Lancia - 1.2, 1.4 16v, 1.4 T-Jet - Belt Drive
Model No. **VSE2511A**

Contains the timing tools required to cover the belt replacement procedure for both the early and later variants of these engines. Includes piston positioning, camshaft and crankshaft locking tools, plus tensioner adjuster and VVT sprocket locking tool.

OEM Tools:	
1.860.985.000, 1.860.987.000, 1.860.992.000, 2.000.004.500, 2.000.015.800	
Applications:	
Alfa Romeo:	Giulietta (10-14), MiTo (08-17)
Fiat:	500 (07-19), 500L (12-19), 500C (07-19), 500 Abarth (08-17), Bravo (07-14), Brava/Bravo (98-02), Doblo/Doblo Cargo (10-19), Egea (15-20), Grande Punto (07-10), Grande Punto Abarth (07-10), Idea (04-12), Linea (07-10), Marea/Weekend (98-00), Palio Weekend (01-06), Panda (07-11), Punto (97-08), Stilo (01-08), Tipo (15-20)
Lancia:	Delta (08-12), Musa (04-13), Ypsilon (96-11)
Engine Codes:	
1.2 16v:	176B9.000, 182B2.000, 188A5.000
1.4 16v/T-Jet:	169A3.000, 192B2.000, 198A1.000, 198A4.000, 199A6.000, 199A8.000, 312A1.000, 312A3.000, 843A1.000, 955A1.000



D Timing Tool Kit - Fiat, Lancia 1.6 16v - Belt Drive
Model No. **VSE2513**

Contains inlet and exhaust camshaft setting plates and a timing belt tensioner adjuster. TDC Position on these twin cam engines is established using Model No. VSE2515 TDC Positioning Tool and Model No. AK9634M Dial Gauge.

OEM Tools:	
1.860.874.000, 1.860.876.000	
Applications:	
Fiat:	Brava/Bravo (95-02), Doblo/Cargo (02-10), Marea/Weekend (96-03), Multipla (99-11), Palio Weekend (97-06), Siena (97-03), Stilo (01-08)
Lancia:	Delta (96-99), Lybra (99-06)
Engine Codes:	
1.6 16v:	178B3.000, 182A4.000, 182A6.000, 182B6.000
Associated Tools:	VSE2515 - TDC Position Tool - Alfa Romeo, Fiat (see page 386), AK9634M - Dial Gauge Metric (see page 386)

A



CHAIN

BMW

A Crankshaft Holding Tool - BMW N47/N57 2.0, 3.0 - Chain Drive Model No. VSE6121.05

Crankshaft holding tool for BMW N47/N57 diesel engines. Essential for securing the crankshaft when replacing the timing chain.

C



CHAIN

BMW
LAND ROVER
MG/ROVER
VAUX/OPEL



C Diesel Engine Timing Tool Kit - BMW M47/M57, Land Rover TD4/TD6, MG 2.0D, GM 2.5D - Chain Drive Model No. VSE5666

Camshaft setting and flywheel locking tools to cover BMW M47/TU/T2 and M57/TU/T2 diesel engines used in BMW, Land Rover, MG/Rover and Vauxhall/Opel models.

OEM Tools: 11.2.300/12-108, 12-171/KM-813, 11.3.340/12-172/KM-823, 11.5.180, 11.6.080, 11.6.321/12-173/KM-6267, 11.6.322/12-174/KM-6267

Applications:

BMW 1 Series: 118d E87 (04-07), 120d E87 (04-07)

BMW 3 Series: 318d/td Compact E46 (01-05), 318d/td E90/91 (05-08), 320d/td Compact E46 (98-05), 320d/cd E90/91 (05-08), 325d E90/91/92/93 (02-10), 330d/cd E46/90/91/92/93 (99-07), 335d E90/91/92 (06-11)

BMW 5 Series: 520d E39/60/61 (00-09), 525d/xd E39/60/61 (00-10), 530d/xd E46/60/61 (98-10), 535d E60/61 (04-10)

BMW 6 Series: 635d E63/64 (07-11)

BMW 7 Series: 730d/ld E38/65/66 (98-08)

BMW X Series: X3 2.0d E83 (04-07), X3 3.0d/sd E83 (03-10), X5 3.0d E53/E70 (00-10), X6 3.0d E71/72 (08-10), X6 3.5d E71/72 (08-10)

Land Rover: Freelander Td4 (00-06), Range Rover Td6 (02-06)

MG/Rover: MG-ZT/T (01-05), Rover 75 CDT/CDTi (99-05)

Vauxhall/Opel: Omega-B (01-03)

Engine Codes:

BMW:

2.0D: M47, M47T2, M47TU

2.5D: M57, M57T2, M57TU

3.0D: M57, M57T2, M57TU

Land Rover:

2.0D: 204D3 (Td4)

3.0D: 306D1 (Td6)

MG/Rover:

2.0D: M47R

2.0D CDT: M47R

Vauxhall/Opel:

2.5D: Y25DT

B



CHAIN

BMW
MINI



B Timing Tool Kit - BMW & BMW Mini - 1.5D, 1.6D, 2.0D, 3.0D Chain Drive Model No. VSE6121A

Essential tools for timing the BMW, BMW Mini 1.5D, 1.6D, 2.0D and 3.0D chain drive diesel engines. Kit includes camshaft setting plate, flywheel locking pin, crankshaft turning tool, and is suitable for the new generation of modular engines. Kit also includes HP pump sprocket retaining tool required during pump removal/replacement applications on N47/N57 engines. Supplied in storage case with instructions and warning tag.

OEM Tools: 11.5.320, 11.6.480, 11.8.760, 11.8.740, 288-380

Applications:

BMW: 114d (15-19), 116d (11-19), 118d (07-14), 120d (07-14), 123d (07-14), 125d (12-14), 214d Active Tourer (14-19), 214d Grand Active Tourer (15-19), 216 d (14-20), 218d (11-16), 220d (14-20), 225d (11-14), 316d (09-12), 318d (07-12), 320d (10-13), 325d (10-14), 330d (08-19), 330d Gran Turismo (13-20), 330xd (08-12), 335d (13-19), 425d (13-16), 425d (14-16), 435d Cabriolet (14-19), 435d Gran Coupe (14-20), 520d (07-13), 525d (10-12), 530d (10-15), 530d GT (09-19), 535d (10-17), 535d GT, (10-12), 640d (11-18), 640d Gran Turismo (12-18), 730i (08-15), 730Ld (08-12), 740d (09-12), 750d (12-15), X1 (15-18), X2 (18-20), X3 (11-17), X4 (14-19), X5 (10-18), X6 (10-19)

Mini: Clubman (10-14), Clubvan (10-14), Cooper D (11-15), Cooper SD (10-15), Countryman (10-17), Coupe (11-14), One D (10-14), Paceman (13-17), Roadster (12-14)

Engine Codes:

1.5D: B37C15A, B37D15A

1.6D: N47 C16K1, N47 C16U1

2.0D: N47 D20K1, N47D20U1, N47D20O1, N47D20, N47D20T1, B37C15A, N47D20C, N47D20D, N47D20U0, N47TD20U1, N47TD20, N47TD20O1, D20D, N47D20O0, N47SD20T0, N47C20K1, N47C20U1

3.0D: N57D30U0, N57D30O0, N57D30O1, N57D30B, N57D30U0, N57D30T0, N57D30T1, N57D30B/T1, N57B30B, N57D30B/T0, N57D30C

D



CHAIN



D Injection & HP Pump Remover/Sprocket Retainer BMW M47, M57, Land Rover (TD6), Vauxhall/Opel Model No. VSE5666

Removes the diesel pump and retains the pump sprocket in situ so that the sprockets/timing chain configuration remains undisturbed, minimizing the level of engine disassembly. For engine timing use Timing Tool Kit Model No. VSE5666.

E



CHAIN



E Injection & HP Pump Remover/Sprocket Retainer M47R Land Rover, Rover/MG Model No. VSE5665

Removes the diesel pump and retains the pump sprocket in situ so that the sprockets/timing chain configuration remains undisturbed, minimizing the level of engine disassembly. Essential for transversely fitted engines. For engine timing use Timing Tool Kit Model No. VSE5666.



Use our online Timing Tool Kit Finder to search for kits, www.sealey.co.uk

A



CHAIN

**BMW MINI
CITROEN
PEUGEOT**


A Timing Tool Kit - BMW Mini, Citroen, Peugeot 1.4, 1.6 - Chain Drive Model No. VSE6131

Suitable for timing 1.4 and 1.6 16v Valvetronic direct injection, chain drive petrol engines, fitted in BMW Mini, Citroen and Peugeot vehicles. Supplied in storage case with comprehensive instructions.

OEM Tools:

BMW Mini: 11.5.540, 11.5.590, 11.9.340, 11.9.550

Citroen: 0197-A1, 0197-A3, 0197-B

Peugeot: 0197-A1, 0197-A3, 0197-BZ

Applications:

BMW Mini: Mini Clubvan R55 (12-14), Mini Clubman R55 (08-14), Mini Countryman R55 (07-10), Mini Clubman R56/R57 (07-15), Mini R56/R57 (08-15), Mini Coupe R58 (11-15), Mini Roadster R59 (08-15), Mini Clubman R60 (10-14), Mini Clubvan R60 (12-14), Mini Roadster R61 (13-15), Mini Paceman R61 (14-17), Mini Countryman R60 (10-17)

Citroen: C4 (08-11), C4 Picasso (08-13) C4 Grand Picasso (13-15)

Peugeot: 207 (06-14), 207CC (07-15), 308 (07-15), 3008 (09-15), 5008 (09-15)

Engine Codes:

1.4: N12B14, N12B14AB

1.6: EP3(8FS), EP3C(8FR), EP6(5FW), EP6C(5FS), EP6CDT(5FV), EP6DT(5FT), EP6DT(5FX), EP6DTS(5FY), N14B16A, N14B16CD, N14B16TO, N14B16CD/TO, N16B16A, N16B16K0, N16B16A/MO, N16B16A/MO, N16B16MO, N16B16UO

Associated Tool: VSE6156 - Balance Shaft Alignment Tool Kit - BMW, Mini, Citroen, Peugeot - Chain Drive (see page 394)

D



CHAIN

**BMW
MINI**


D Timing Tool Kit - BMW, BMW Mini 1.2, 1.6, 2.0 - Chain Drive Model No. VSE6122

Fits the new generation of BMW modular petrol engines. Contains the tools required to set and lock the engine and for valve timing checking and adjusting.

OEM Tools:

BMW: 35.8.122, 288.380

Applications:

BMW: 116i F20/21 (15-19), 216i F45 (14-18), 216i F46 Gran Tourer (15-19), 218i Coupe F22 (15-20), 218i F23 Cabriolet (15-20), 220i F45 (14-17), 220i F46 Gran Tourer (15-19), 225i F45 (14-18), 318 F30/31 (15-19), 330i F30/31 (15-18), 418i Gran Coupe (15-20), 418i Coupe (16-20), i8 (14-17), X1 F48 (15-20), X2 (18-20)

BMW Mini: Mini Hatch F55 (14-19), Mini Hatch F56 (14-19), Mini Clubman (15-20), Mini Countryman (17-20), Mini Convertible (16-20)

Engine Codes:

1.2: B38A12A

1.6: B38A15A, B38B15A, B38K15A

2.0: B48A20A, B48B20B

B



Made in Great Britain



B 200ml High Temperature Gasket Sealant Black Model No. SCS591

Used as an adhesive to bond metal, rubber and glass etc. Flow controllable power can. Temperature range: -50°C to +180°C.

Size: 200ml Power Can

C

NEW



CHAIN

BMW MINI

C Timing Chain Wear Indicator - BMW Mini Model No. VSE2381

Allows checking of wear of the timing chain on a range of BMW Mini petrol engines with the minimum amount of dismantling. This saves a significant amount of time when checking for timing chain stretch and wear.

OEM Tool: 235.3.281

Applications:

BMW Mini: Mini (06-15), Clubman (07-14), Coupe (11-15), Clubvan (11-14), Countryman (10-17), Paceman (13-17), Roadster (12-15)

Engine Codes:

1.4: N12B14, N12B14AB

1.6: N12B16A, N16B16A, N16B16MO, N16B16UO, N16B16A/MO, N16B16K0, N18B16A, N18B16A/MO, N18B16C, N18B16A/MO, N18B16MO, N18B16C/TO

E

NEW

**BMW
MINI
FORD**


1/2" Sq. Drive



E Vanos Unit Socket 22mm 16pt 1/2" Sq Drive BMW, Mini, Ford Model No. VSE6134

Vanos unit socket for BMW, Mini and Ford. 22mm 16-point Socket. 1/2" Sq Drive.



A Twin Vanos Service Kit - BMW M52TU/M54/M56 - Chain Drive Model No. VSE5906

For use with twin Vanos variable valve/timing units on 6-cylinder BMW engines. Designed for dismantling/assembling and timing of the unit after engine overhaul/repair work. Kit includes twin Vanos setting tool, sprocket/chain assembly fixture and compressed air connector. Used in conjunction with Model No. VSE4425 Timing Tool Kit for engine timing.

OEM Tools:	11.3.450, 11.6.150, 11.6.180
Applications:	
BMW 3 Series:	320i E46 (98-07), 323i E46 (98-01), 325i E46 (00-07), 328i E46 (98-01), 330i E46 (00-07)
BMW 5 Series:	520i E39 (98-03), 520i E60/E61 (03-05), 523 E39 (98-03), 525i E60/E61 (03-05), 528i E39 (98-01), 530i E39 (00-03), 530i E60/E61 (03-05)
BMW 7 Series:	728i E38/E65/E66 (98-02), 730i E65/E66 (02-05)
BMW X Series:	X3 2.5 E83 (03-07), X3 3.0 E83 (03-07), X5 3.0 E53 (99-07)
BMW Z Series:	Z3 2.0 E36 (99-03), Z3 2.2 E36 (00-03), Z3 2.8 E36 (99-03), Z3 3.0 E36 (00-03), Z4 2.2 E85 (03-06), Z4 2.5 E85 (03-06), Z4 3.0 E85 (03-06)
Engine Codes:	
2.0:	20 6S 4
2.2:	22 6S 1
2.5:	25 6S 4, 25 6S 5
2.8:	28 6S 2
3.0:	30 6S 3

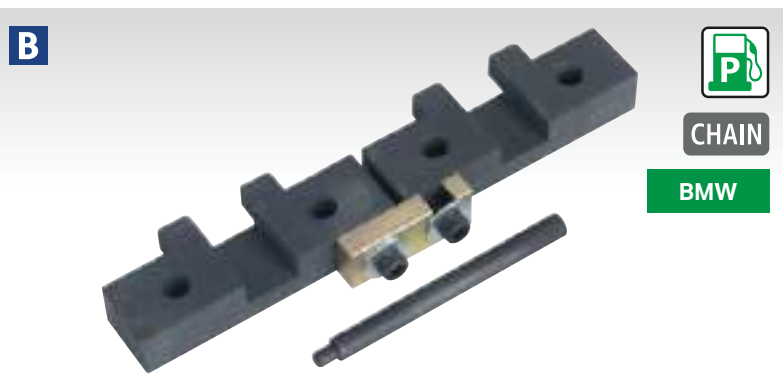
Associated Tool: VSE4425 - Timing Tool Kit - BMW 1.8, 2.0, 2.2, 2.5, 2.8, 3.0 M42/M50/M52/M52TU/M54/M56 - Chain Drive (see [B](#))



C Timing Tool Kit - BMW 1.6, 1.8, 1.9 SOHC M43 - Chain Drive Model No. VSE118

Suitable for setting camshaft in the timed position on BMW M43 SOHC petrol engines.

OEM Tools:	11.2.300, 11.3.190
Applications:	
BMW 3 Series:	316i E36/E46 (93-04), 316i Compact E36 (98-01), 318i E36/E46 (93-01)
BMW 5 Series:	518i E34 (94-96)
BMW Z Series:	Z3 1.8 E36 (96-03), Z3 1.9 E36 (96-03)
Engine Codes:	
1.6:	M43; 16 4E 2, 16 4E 3
1.8:	M43; 18 4E 2
1.9:	M43; 19 4E 1



B Timing Tool Kit BMW M42/M50/M52/M52TU/M54/M56 - Chain Drive Model No. VSE4425

Suitable for setting and locking popular BMW petrol engines. Kit comprises camshaft locking tools and flywheel locking pin.

OEM Tools:	11.2.300, 11.3.240
Applications:	
BMW 3 Series:	318iS E36 (92-99), 318ti Compact E36 (94-01), 320i E36/E46 (92-07), 323i E36/E46 (95-01), 325i E36/E46 (92-07), 328i E36/E46 (95-01), 330i E46 (00-07)
BMW 5 Series:	520i E39/E60 (96-05), 523i E39 (96-01), 525i E39/E60 (00-05), 528i E39 (96-00), 530i E39/E60 (00-05)
BMW 7 Series:	728i E38 (94-02), 730i E65 (02-05)
BMW Z Series:	Z3 E36 2.0-3.0 (97-03), Z4 E85 2.2-3.0 (03-06)
BMW X Series:	X3 E83 2.5-3.0 (03-07), X5 E53 3.0 (99-07)
Engine Codes:	
1.8:	18 4S 1
1.9:	19 4S 1
2.0:	20 6S 2, 20 6S 3, 20 6S 4
2.2:	22 6S 1
2.5:	25 6S 2, 25 6S 3, 25 6S 4, 25 6S 5
2.8:	28 6S 1, 28 6S 2
3.0:	30 6S 3

Associated Tool: VSE5906 Twin Vanos Service Kit BMW M52TU/M54/M56 (see [A](#))



D Camshaft R + I & Crank Pulley Installer Kit - BMW Mini, Chrysler 1.6 - Chain Drive Model No. VSE119

Engine service kit for removing/installing camshaft sprocket and installing crankshaft pulley on Mini R50/52/53 & Chrysler PT Cruiser 1.6 petrol engines. Kit also includes engine support bracket. Supplied in storage case.

OEM Tools:	11.8.240, 11.8.250, 11.8.370
BMW Mini:	8385, 8435
Chrysler:	
Applications:	
BMW Mini:	1.6 Cooper (01-09), 1.6 Cooper S (02-09), 1.6 One (01-09)
Chrysler:	PT Cruiser (01-09)
Engine Codes:	
1.6:	EJD, W10B16AA, W10B16BA, W11B16BA

Associated Tool: VSE1191 - Crankshaft Pulley Remover for BMW Mini W10, W11 Petrol Engine (see page 417)

**A Timing Tool Kit - BMW 1.6 N40/N45/N45T - Chain Drive****Model No. VSE5981**

Suitable for setting and adjusting the timing on 1.6 BMW N40, N45, N45T petrol engines and for aligning the Vanos units on the inlet and exhaust camshafts. Supplied in storage case.

OEM Tools: 11.5.120, 11.7.251, 11.7.252, 11.7.253, 11.7.260, 11.9.190, 11.9.340

Applications:

BMW 1 Series: 116i E81/82/87/88 (04-09)

BMW 3 Series: 316i/ti Compact E46 (01-07), 316i E90/91/92/93 (05-10)

Engine Codes:

1.6: N40 B16A, N45 B16A, N45T B16AC

Associated Tool: VSE6156 - Balance Shaft Alignment Tool Kit (see page 402)

**C Flywheel Locking Pin - BMW 1.8, 2.0 N42/N46/N46T - Chain Drive****Model No. VSE5911MW**

Suitable for BMW 1.8-2.0 N42/N46 Chain Drive Petrol Engines. Useful and time-saving flywheel locking pin. The unique design makes it possible to lock the flywheel into its timing position without the need to remove the ancillary components normally required to gain access.

Applications:**BMW:**

118i: E81/82/87/88 (07-14)

120i: E81/82/87/88 (04-14)

316i: E46 (01-07), 316ti Compact E46 (01-05)

318i: E46 (01-08), 318i E90/91/92/93 (05-12)

320i: E90/91/92/93 (05-14)

520i: E60/61 (07-10)

Z4: E85/86 (04-09)

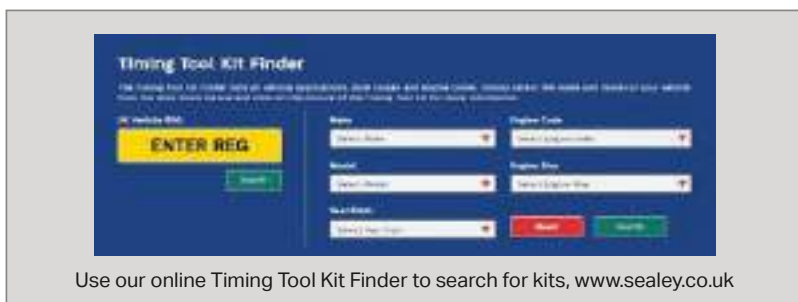
X1: sDrive 18i E84(10-12), X1 xDrive 18i E84 (10-11)

X3: E83 (05-10)

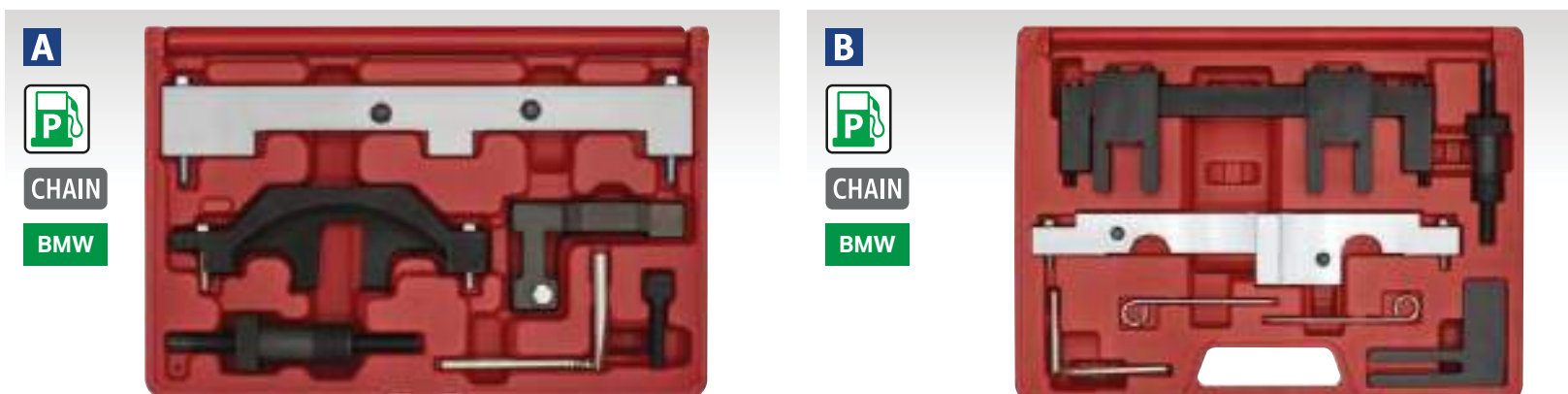
Engine Codes:

1.8: N42 B18A, N46 B18, N42 B18A, N46 B18, N46 B18

2.0: N42 B20A, N46 B20B, N42 B20A, N46 B20B, N46 B20, N46 B20B, N46T B20BZ, N46 B20B, N46T B20BD, N46T B20B, N46 B20B, N46T B20O2, N46T B20, N46 B20B, N46 B20B, N46T B20, N46T B20BZ, N46 B20B, N46T B20, N46T B20O2



Use our online Timing Tool Kit Finder to search for kits, www.sealey.co.uk

**B Timing Tool Kit - BMW 1.6, 2.0 N43 - Chain Drive****Model No. VSE6001**

Suitable for setting and adjusting the timing on 1.6 & 2.0 BMW N43 petrol engines. Kit contains the necessary tools for aligning the Vanos units on the inlet and exhaust camshafts.

OEM Tools: 11.8.690 (11.8.691/11.8.692/11.8.693), 11.9.340 (11.9.341/11.9.342), 11.8.710 (11.8.711/11.8.712), 11.3.340, 11.5.120, 11.8.700

Applications:

BMW 1 Series: 116i E81/82/87/88 (07-12), 118i E81/82/87/88 (06-14), 120i E81/82/87/88 (06-14)

BMW 3 Series: 316i E90/91/92/93 (07-11), 318i E90/91/92/93 (07-13), 320i E90/91/92/93 (07-14)

BMW 5 Series: 520i E60/61 (07-10)

Engine Codes:

N43: B16A/AA, B16AA, B16AA/OO, B20A, B20A/AA, B20AA, B20AY, B20K0, B20U0

Associated Tools: VSE5660 - Flywheel Holding Tool (see page 395)

**D Camshaft/Carrier Removal/Installation Kit****BMW 1.8, 2.0 N42/N46/N46T - Chain Drive****Model No. VSE5926**

Used in conjunction with Model No. VSE5911A Timing Kit - the kit provides the specialist tools for removal and installation of camshafts and dismantling/rebuilding camshaft carrier bracket/Valvetronic assembly. Essential tools for safe removal of torsion springs.

OEM Tools: 11.9.301, 11.9.303, 11.9.310, 11.9.320, 11.9.390

Applications:

BMW 1 Series: 118i E81/82/87/88 (04-14), 120i E81/82/87/88 (04-14)

BMW 3 Series: 316i/ti Compact E46 (01-07), 318i/ti Compact E46 (01-07), 318i E90/91/92/93 (05-12), 320i E90/91/92/93 (05-14)

BMW 5 Series: 520i E60/61 (07-10)

BMW X Series: X1 E84 sDrive 18i (10-12), X3 E83 2.0 (05-10)

BMW Z Series: Z4 2.0 E85/86 (04-09)

Engine Codes:

1.8: N42 B18A, N46 B18

2.0: N42 B20A, N46 B20, N46 B20B, N46T B20, N46T B20B, N46T B20BD, N46T B20BZ, N46T B20O2, N46T B202

Associated Tool: VSE5911A - Timing Tool Kit - BMW N42/N46/N46T - Chain Drive (see page 393)



A Crankshaft Turning/Holding Kit - BMW/Mini - Chain Drive
Model No. VSE2398

Crankshaft turning and flywheel locking tool. Designed to turn the crankshaft without removing the pulley fixing bolts. Flywheel locking plate fits manual and automatic gearbox vehicles. Suitable for petrol and diesel engines. Supplied in a storage case with warning tag and instructions.

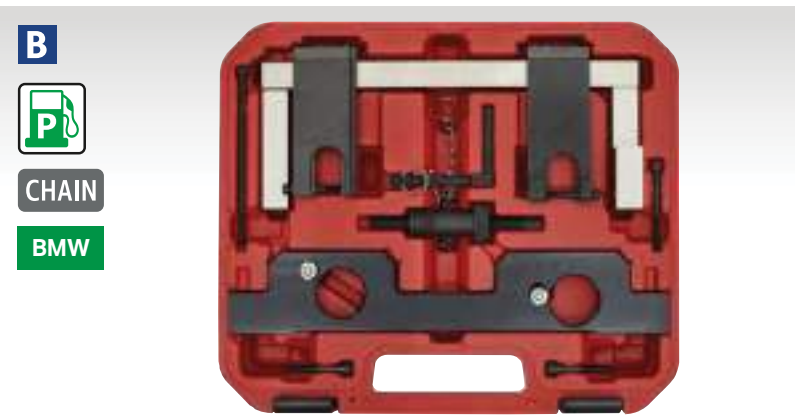
OEM Tools:	11.6.480, 11.9.811, 11.9.265, 11.4.180
Applications:	
BMW:	116i (15-19), 116d (15-19), 118d (15-19), 120d (15-19), 125d (15-19), M140i (16-19), 214d (15-19), 216i (18-19), 216d (14-20), 218d (17-19), 218i (15-19), 220d, (14-20), 225d (15-20), M240i (16-19), 316d (15-19), 318i (15-19), 320d (15-19), 325d (16-20), 330i (15-20), 340i (15-19), 418i (15-20), 420d (15-20), 425d (16-18), 430i (16-20), 440i (16-19), 518d (14-17), 525d (17-20), 530i (17-18), 540i (17-19), 620d (18-20), 630i (17-19), 640i (17-19), 725d (16-19), 730i, (15-19), 740i (15-19), X1 (15-20), X2 (18-19), X3 (14-18), X4 (17-20), X5 (15-18), i8 (14-18)
Mini:	Mini Hatch (14-21), Cabriolet (16-19), Clubman (15-19), Countryman (17-19)
Engine Codes:	
1.2 Petrol:	B38A12A
1.5D:	B37C15A, B37D15A
1.5 Petrol:	B38A15A, B38B15A, B38K15A
2.0D:	B47D20A, B47D20B, B47C20A, B47C20B
3.0 Petrol:	B58B30A
Associated Tool:	VSE6121A - Timing Tool Kit - BMW/Mini 1.5, 1.6, 2.0, 3.0 - Chain Drive



C Timing Tool Kit BMW 1.8, 2.0 N42/N46/N46T - Chain Drive
Model No. VSE5911A

Suitable for setting and adjusting the timing on N42 and N46 engines with the Valvetronic system. Also includes tools to align the twin Vanos unit.

OEM Tools:	11.5.120, 11.9.190, 11.9.270, 11.9.291, 11.9.292, 11.9.293, 11.9.340, 11.9.350
Applications:	
BMW 1 Series:	118i E81/82/87/88 (04-14), 120i E81/82/87/88 (04-14)
BMW 3 Series:	316i/ti Compact E46 (01-07), 318i/ti Compact E46 (01-07), 318i E90/91/92/93 (05-12), 320i E90/91/92/93 (05-12)
BMW 5 Series:	520i E60/61 (07-10), Z4 2.0 E85/86 (04-09)
BMW X Series:	X1 sDrive 18i E84 (10-12), X1 xDrive 18i E84 (10-12), X3 2.0 E83 (05-10)
Engine Codes:	
1.8:	N42; B18A, N46; B18
2.0:	N42; B20A, N46; B20, B20B, N46T; B20, B20B, B20BD, B20BZ, B20O2, B20O2
Associated Tools:	VSE6156 - Balance Shaft Alignment Tool Kit (see page 402), VSE5926 - Camshaft/Carrier Removal/Installation Kit - BMW 1.8, 2.0 N42/N46/N46T - Chain Drive (see page 392)



B Timing Tool Kit - BMW 2.0 N20/N26 - Chain Drive
Model No. VSE6188

Covers a wide range of BMW 2.0 litre petrol engines. Includes tools required for positioning and securing the camshafts and crankshaft into their timing positions. Also includes tools for setting the Vanos unit position and for setting the timing chain pre-tension.

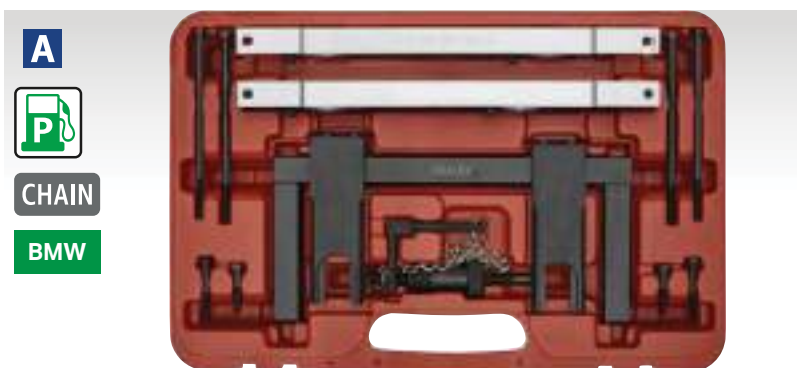
OEM Tools:	11.9.340, 8302212831, 83302212830, 2219548
Applications:	
BMW 1 Series (F20/21):	125i (12-16)
BMW 2 Series (F22):	220i Coupe F22; 228i (14-16), 220i Coupe (14-16), 228i Coupe (14-16), 220i Cabriolet (15-16)
BMW 3 Series (F30/31):	320i xDrive (12-16), 328i (12-15), 328i xDrive (12-15)
BMW 4 Series (F32/33):	420i F32 x-Drive Coupe (13-16), x-Drive Gran Coupe (14-16), 420i F33 Cabriolet (14-16)
BMW 5 Series (F10/11):	520i (11-17), 528i xDrive (11-17)
BMW X1 (E84):	xDrive 20i(11-15), sDrive 20i(11-15), xDrive 28i(11-15)
BMW X3 (F25):	xDrive 20i (11-17)
BMW X4 (F26):	xDrive 40i (14-18)
BMW Z4 (E89):	sDrive 20i (11-17), sDrive 28i (11-16)
Engine Codes:	
2.0:	N20B20, N20B20A, N20B20B, N20B20/UO, N20B20O0, N26B20



D Oil Pump & Balance Shaft Alignment Kit - BMW 2.0 N20/N26 - Chain Drive
Model No. VSE6198

Suitable for BMW N20 and N26 2.0L engines. Use in conjunction with Model No. VSE6188 Timing Tool Kit. Supplied in a storage case with instructions.

OEM Tools:	22-12-825, 23-18-117, 11-4-120
Applications:	
BMW 1 Series:	125i (12-16)
BMW 2 Series:	220i Coupe F22; 228i (14-16), 220i Coupe (14-16), 228i Coupe (14-16), 220i Cabriolet (15-16)
BMW 3 Series:	320i xDrive (12-16), 328i (12-15), 328i xDrive (12-15)
BMW 4 Series:	420i F32 x-Drive Coupe (13-16), x-Drive Gran Coupe (14-16), 420i F33 Cabriolet (14-16)
BMW 5 Series:	520i (11-17), 528i xDrive (11-17)
BMW X1 Series:	xDrive 20i(11-15), sDrive 20i(11-15), xDrive 28i(11-15)
BMW X3 Series:	xDrive 20i (11-17)
BMW X4 Series:	xDrive 40i (14-18)
BMW Z4 Series:	sDrive 20i (11-17), sDrive 28i (11-16)
Engine Codes:	
2.0:	N20B20, N20B20A, N20B20B, N20B20/UO, N20B20O0, N26B20
Associated Tool:	VSE6188 - Petrol Engine Timing Tool Kit - BMW 2.0 N20/N26 - Chain Drive B



A Timing Tool Kit - BMW 2.5, 3.0 N51/N52/N52K/N53/N54 Chain Drive

Model No. **VSE6111**

Suitable for a wide range of BMW 2.5 and 3.0 chain drive, 6-cylinder, twin camshaft petrol engines. Kit covers N51/N52/N52K Valvetronic and N53/N54 direct injection engines and includes Vanos alignment plates for these engines.

OEM Tools: 11.0.300, 11.4.280, 11.4.290, 11.8.520, 11.9.340

Applications:

BMW 1 Series: 125i E88 (07-13), 128i E82/88 (07-08), 130i E81/87 (05-12), 135i/S E82 (07-11), M Coupe (11-12)

BMW 3 Series: 323i E90/91/92/93 (04-11), 325i E90/91/92/93 (05-13), 328i E90/91/92/93 (04-14), 330i E90/91/92/93 (05-11)

BMW 5 Series: 523i/Li E60/61/F10/11 (04-11), 525i E60/61 (04-10), 528i E60/61/F10/11 (06-11), 530i E60/61/F10/11 (04-13), 535i E60/61 (06-08)

BMW 6 Series: 630i E63/64 (04-11)

BMW 7 Series: 730i E65/66 F01/02/04 (04-11), 740i F01/02/04 (08-12)

BMW X Series: X1 E84 xDrive 20i (11-14), X1 E84 sDrive 20i (11-14), X1 E84 xDrive 28i (11-14), X1 E84 3.0 xDrive 25i (10-11), X1 E84 xDrive 28i (09-11), X3 F25 20i (11-14), X3 E83 2.5Si (06-10), X3 E83 3.0i/Si (06-10), X3 F25 3.0 xDrive 28i (11-13), X5 E70 3.0Si/xDrive 30i (06-10), X6 E71/72 3.0 xDrive 35i (08-10)

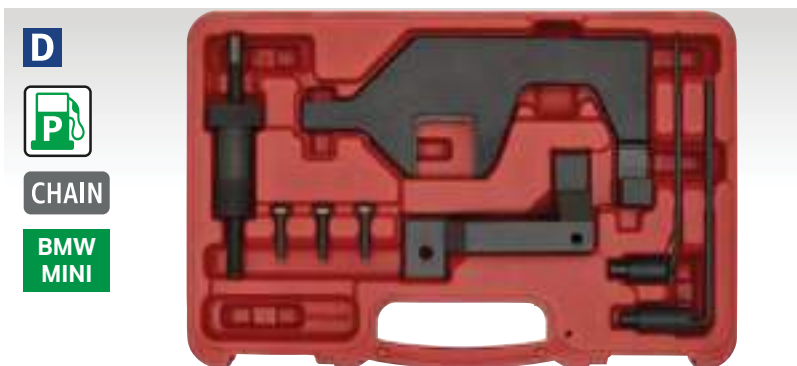
BMW Z Series: Z4 E85/86 2.5i/Si (05-09), Z4 E85/86 3.0i/Si (05-09), Z4 E89 2.5 sDrive 23i (09-11), Z4 E89 3.0 sDrive 30i (09-11), Z4 E89 3.0 sDrive 35i/is (09-13)

Engine Codes:

N52/N52K: B25A, B25A/O1, B25AE, B25AF, B25BE, B2501, B2502, B25U1, B30/O2, B30A, B30A/O1, B30AE, B30AF, B30O2, B30U1

N53/N54: B25A, B30A, B30A/AA, B30A/OO, B30A/TO, B30O0, B30TD, B30UO

Associated Tools: VSE6156 - Balance Shaft Alignment Tool Kit (see [C](#)), VSE6111.08 - Bridge Adaptor Bar - BMW N55 (see [B](#))



D Timing Tool Kit - BMW, BMW Mini 1.6 - Chain Drive

Model No. **VSE5982**

Covers a wide range of BMW & Mini Chain Drive Petrol Engines. Includes the necessary tools for setting and locking the camshafts and crankshaft, and a tool for setting the timing chain pre-tension.

OEM Tools:

BMW: 11.9.340, 11.7.440, 496.709

Mini: 11.9.340, 11.7.440, 119.590

Applications:

BMW: 114i (12-15), 116i (12-15), 118i (11-15), 316i (12-15)

Mini: Cooper S (R56/57) (10-15), Coupe Cooper S (R58) (12-15), Roadster (R59) (12-15), Countryman (R60) (12-17), Paceman R61 (13-17), Clubman (R55) (11-14)

Engine Codes:

1.6: N13 B16A, N18 B16/M0, N18 B16A, N18 B16A/M0, N18 B16A/MO, N18B16C, N18B16C/TO, N18B16M0



B Bridge Adaptor Bar - BMW N55 Chain Drive

Model No. **VSE6111.08**

Used in conjunction with Model No. VSE6111 Timing Tool Kit, the bridge bar adaptor expands the kit to fit the BMW N55 range of engines. The N55 engine uses the same setting and locking tools and Vanos alignment plate as the N51/N52 engines.



C Balance Shaft Alignment Tool Kit - BMW, BMW Mini, Citroen, Peugeot - Chain Drive

Model No. **VSE6156**

Essential tools for the removal/installation of the timing chain assembly on a range of BMW, BMW Mini and PSA petrol engines. Kit includes balance shaft aligners, crankshaft gear holding tools and chain tensioner locking pin. Engine Timing Tool Kits covering engine timing are available separately for each engine.

OEM Tools: 11.3.340, 11.4.360, 11.5.140, 11.9.280, 11.9.330

Applications:

BMW 1 Series: 116i E81/82/87/88 (04-09), 118i E81/82/87/88 (04-14), 120i E81/82/87/88 (04-14), 125i E82 (07-12), 130i E81/87 (05-12), 135iS E82 (07-12)

BMW 3 Series:

316i/ti Compact E46 (01-07), 316i E90/91/92/93 (05-14), 318i/ti Compact E46 (01-07), 318i E90/91/92/93 (05-12), 320i E90/91/92/93 (05-12), 323i E90/91/92/93 (04-11), 325i E90/91/92/93 (04-12), 330i E90/91/92/93 (04-14), 335i E90/91/92/93 (04-14)

BMW 5 Series: 520i E60/61 (07-10), 523i E60/61 (04-10), 525i E60/61 (04-10), 530i E60/61 (05-10)

BMW 6 Series: 630i E63/64 (04-11)

BMW 7 Series: 730i E65/66 (04-12)

BMW X Series: X1 sDrive 18i E84 (10-12), X1 xDrive 18i E84 (10-12), X3 2.0 E83 (05-10), X3 2.5/3.0 E83 (06-10), X5 3.0 E70 (06-10)

BMW Z Series: Z4 2.0 E85/86 (04-09), Z4 2.5/3.0 E85/86 (05-09)

BMW Mini: Clubman (R55) (08-14), Cooper S R55/56 (06-10), Cooper R55/56 (06-10), Mini One R56 (07-10), Mini (R56/57) (08-15), Cooper R58 (11-15)

Citroen: Berlingo (09-16), C3 Picasso (09-15), C3 III (10-15), C4 Picasso/Grand Picasso (08-13), (08-11), C4 (08-11), C4 II (11-15), C5 III (09-14), DS3 (04-15), DS4 (11-15), DS5 (12-15)

Peugeot: 207 (06-13), 207CC (07-15), 208 (13-15), 2008 (13-15), 308 (07-15), 308CC (09-15), 3008 (09-15), 508 (11-15), 5008 (09-15), Partner III (09-16), RCZ (10-16)

Engine Codes:

BMW: N40; B16A, N42; B18A, B20A, N45T; B16AC, N46; B18, B20, B20B, N46T; B20, B20B, B20BD, B20BZ, B20O2, N52; B25A, B25AE, B30, B30A, B30A/OO, B30AF, B30F, B30U1, N52K; B25A, B25AE, B25AF, B25AF/O1, B25BE, B25U1, B30A, B30AE, B30AF, N53; B25A, B30A, N54; B30A, B30A/AA, B30TO

BMW Mini: N12; B14, B14AB, B16A, N14; B16A, B16CD, B16CD/TO

PSA: EP3(8FP), EP3(8FS), EP3C(8FN), EP3C(8FP), EP3C(8FR), EP6(5FP), EP6(5FW), EP6C(5FH), EP6C(5FK), EP6C(5FS), EP6C(5FW), EP6CDT(5FE), EP6CDT(5FM), EP6CDT(5FN), EP6CDT(5FV), EP6CDTE(5FR), EP6CDTM(5FE), EP6CDTM(5FM), EP6CDTX(5FU), EP6DT(5FT), EP6DT(5FX), EP6DTE(5FR), EP6DTE(5FX), EP6DTS(5FD), EP6DTS(5FF), EP6DTS(5FY)

Associated Tools: VSE5911A - Timing Tool Kit - BMW

N42/N46/N46T 1.8, 2.0 - Chain Drive (see page 393), VSE5981 - Timing Tool Kit - BMW

1.6 N40/N45/N45T - Chain Drive (see page 392), VSE6111 - Timing Tool Kit - BMW 2.5, 3.0

N51/N52/N52K/N53/N54 - Chain Drive (see [A](#)), VSE6131 - Timing Tool Kit - BMW Mini,

Citroen, Peugeot - Chain Drive (see page 390)

A**CHAIN**
BMW
LAND ROVER
MORGAN


A Timing Tool Kit - BMW, Land Rover, Morgan M60/M62 - Chain Drive Model No. **VSE5555**

Comprehensive kit for BMW, Land Rover and Morgan chain drive M60 and M62 Series engines. The kit also includes the essential tooling for setting the Vanos units, and correctly positioning the inlet camshaft sensor plates.

OEM Tools:

BMW: 11.2.445, 11.2.441, 11.2.442, 11.2.446, 11.4.230/11.3.390, 11.5.180, 11.2.300, 11.6.420, 11.6.452, 11.6.451, 11.3.310, 11.6.440, 11.7.380

Land Rover: LRT 12-223/2, LRT 12-223/1, LRT 12-223/3, LRT 12-223/4, LRT 12-222, LRT 12-227, LRT 12-226, LRT 12-228/1, LRT 12-228/2, LRT 12-220, LRT 12-224, LRT 12-221

Morgan: M62

Applications:

BMW 5 Series: 530i E34 (93-95), 540i E34 (93-95), 535i E39 (96-98), 535i E39 with Vanos (97-03), 540i E39 (96-98), 540i E39 with Vanos (98-03)
BMW 7 Series: 730i E38 (92-96), 735i E38 (96-97), 735i E38 with Vanos (98-02), 740i E38 (92-98), 740i E38 with Vanos (99-01)

BMW 8 Series: 840i E31 (92-96), 840i E31 with Vanos (96-97)

BMW X Series: X5 E53 (99-04)

Land Rover: Range Rover (02-05)

Morgan: Aero 8 (00-04)

Engine Codes: 3.0: 308S1 4.0: 408S1

3.5: 358S1, 358S2 4.4: 448S1, 448S2, V8/448S2, Morgan M62

3.5: 358S1, 358S2 4.6: 468S1

C**CHAIN****BMW**

C Crankshaft Pulley Bolt Installation Kit - BMW - Chain Drive Model No. **VSE6168**

Crankshaft holding kit for BMW N62/N73 chain drive engines. Kit contains tools to secure the crankshaft allowing the pulley securing bolt to be tightened at the correct torque. Also includes a useful socket for removing/tightening the VVT unit on the left bank on N73 engines.

OEM Tools: 119.451, 119.454, 113.460, 119.452, 119.453, 117.270, 119.340

Applications:

BMW 5 Series: 540i E60/E61 (05-10), 545i E60/E61 (03-06), 550i E60/E61 (05-10)

BMW 6 Series: 645i E63/E64 (03-06), 650i E63/E64 (05-11)

BMW 7 Series: 735i E65/E66 (02-05), 740i E65/E66 (05-08), 745i E65/E66 (02-05), 750i E65/E66 (05-08), 760i E65/E66 (02-08)

BMW X Series: X5 E53 (03-07), X5 E53/E70 (04-10)

Engine Codes: 3.6: N62B36 4.4: N62B44A

3.6: N62B36 4.8: N62B48, N62B48B

4.0: N62B40A 6.0: N73B60A

B**CHAIN****BMW**

B Timing Tool Kit - BMW N62/N62TU V8, N73 V12 - Chain Drive Model No. **VSE6166**

Suitable for setting and adjusting the timing on BMW 3.6, 4.0, 4.4, 4.8 N62/N62TU V8 and 6.0 N73 V12 engines. Kit includes camshaft setting plates, flywheel locking pin and chain pre-tensioning tool.

OEM Tools: 11.9.190, 11.9.340, 11.9.461, 11.9.462, 11.9.463

Applications:

BMW 5 Series: 540i E60/61 (05-10), 545i E60/61 (03-06), 550i E60/61 (05-10)

BMW 6 Series: 645i E63/64 (03-06), 650i E63/64 (05-11)

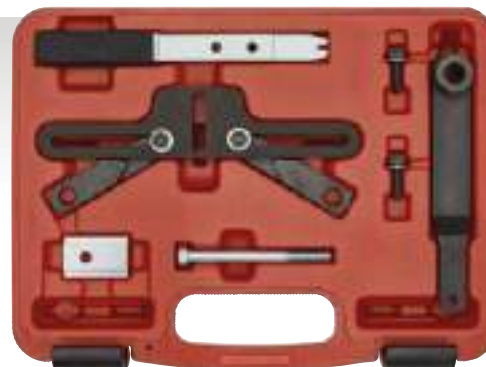
BMW 7 Series: 735i E65/66 (02-05), 740i E65/66 (05-10), 745i E65/66 (02-05), 750i E65/66 (05-08), 760i E65/66 (02-08)

BMW X Series: X5 4.4 E53 (03-07), X5 4.8 E53/E70 (04-10)

Engine Codes: 4.4 V8: N62 B44A

3.6 V8: N62 B36A 4.8 V8: N62 B48B

4.0 V8: N62 B40A 6.0 V12: N73 B60A

D**CHAIN****BMW**
MINI

D Engine Flywheel Holding Tool - BMW, BMW Mini - Chain Drive Model No. **VSE6660**

Essential tool for holding the flywheel when releasing and tightening the vibration damper central bolts on BMW M47T2, M57T2, M57TU, M67, N20, N26, N43, N45, N45T, N46, N46T, N47, N51, N52, N53, N54 & Mini W17 diesel/petrol chain drive engines. The tool can also be used to hold the flywheel when removing the timing chain for cylinder head work.

OEM Tools: 11.8.180, 11.8.181, 11.8.182, 11.8.183, 11.8.184, 11.8.185

Applications:

BMW 1 Series: (F20/21) (12-15), 116i (04-12), 118i (04-14), 120i (04-14), 130i (05-07), 135i (07-11), 116d (08-12), 118d (04-14), 120d (04-14), 123d (07-14), M Coupe (11-12)

BMW 3 Series: (F30/31) (12-15), 316ti (04-14), 316i (04-11), 316d (09-12), 318i (04-07), 318ti/Compact (04-04), 318d (03-12), 318td (03-07), 320d (01-07), 320d Compact (01-05), 318i (05-13), 320d (07-14), 320i (05-14), 320si (05-06), 323i (05-11), 325i (05-14), 325d (06-10), 330d (05-08), 330i (06-13), 335d (05-13), 335i (05-11)

BMW 4 Series: 420i F32 (13-15), 428i F32 (13-15), 420i F33 Cabriolet (14-15), 428i F33 Cabriolet (14-15), 420i F36 (14-15), 428i F36 Gran Coupe (14-15)

BMW 5 Series: (F10/11) (10-15), 520d (05-10), 520i (07-10) 523i (03-10), 525d (05-10), 525i (05-10), 525i (07-10), 530d (03-10), 530i (05-10), 535d (04-10)

BMW 6 Series: 630i (04-11), 635d (07-11)

BMW 7 Series: 730d (05-08), 730i (02-08)

BMW X Series: X1 E84 (09-15), X3 E83 (03-14), X5 E53 (03-14), X3 F25 (11-15), X6 E71 (08-10)

BMW Z Series: Z4 E85/86 (04-09), Z4 (E89) (11-15)

BMW Mini: Mini (03-06)

Engine Codes:

BMW: M47T2, M57T2, M57TU, M67, N20, N26, N43, N45, N45T, N46, N46T, N47, N51, N52, N53, N54

BMW Mini: W17

A**CHAIN****MERCEDES
CHRYSLER
JEEP****A Timing Chain Tool Kit - Mercedes, Chrysler, Jeep****Model No. VSE4801**

Essential tool for timing chain work on Mercedes 1.7D, 2.1D, 2.2D, 2.7D, 3.0D, 3.2D, 3.9D and 4.0D CDI diesel engines. The link separating tool and the link assembly tool allow for quick and easy separation and assembly of the timing chain. May also be used on some Chrysler/Jeep 2.2D, 2.7D and 3.0D CRD diesel engines.

OEM Tools:

Mercedes: 602.589.023.300, 602.589.046.300, 602.589.046.301, 602.589.003.900, 602.589.026.300, 602.589.036.300, 112.589.069.300

Chrysler: 9312, 8947

Applications:

Mercedes: A-Class 168 (98-05), C-Class 202 (98-01), C-Class 203 (00-08), C-Class 204 (07-14), E-Class 210 (98-03), E-Class 211 (03-10), E-Class 212 (09-16), E-Class Coupe/Cabriolet 207 (09-15), CLS 219 (05-11), CLS 218 (11-18), S-Class 220 (99-06), S-Class 221 (05-13), CLC-Class (08-12), CLK 209 (02-09), GLK 204 (08-12), G-Class 463 (00-15), Vito 639 (10-14), Sprinter 906 (09-14)

Chrysler: 300C (05-11), PT Cruiser (02-09)

Jeep: Grand Cherokee (01-11), Commander (05-11)

Engine Codes:

1.7D CDI: 668.940, 668.941, 668.942

2.1D CDI: 646.811, 646.812, 646.820, 646.821, 646.951, 646.961, 646.962, 646.963, 646.966

2.2D CDI/CRD: 611.960, 611.961, 611.962

2.7D CDI/CRD: 612.961, 612.962, 612.965, 612.967, 647.961

3.0D CDI/CRD: 642.830, 642.832, 642.834, 642.836, 642.838, 642.850, 642.852, 642.853, 642.854, 642.856, 642.858, 642.862, 642.868, 642.886, 642.910, 642.920, 642.921, 642.922, 642.930, 642.932, 642.960, 642.961, 642.970, EXL(642.980)

3.2D CDI: 613.960, 613.961, 648.960, 648.961

3.9D CDI: 628.960, 628.961

4.0D CDI: 628.962, 629.910, 629.911

C**BELT****CHRYSLER
JEEP
LDV****C Timing Tool Kit Chrysler, Jeep, LDV - 2.5D CRD, 2.8D CRD - Belt Drive****Model No. VSE5056**

Covers engine timing and balance shaft setting on 2.5 & 2.8CRD diesel engines in Chrysler, Jeep and LDV models. Contains camshaft, crankshaft and balance shaft locking pins plus tensioner adjuster. Supplied in storage case.

OEM Tools:

Chrysler/Jeep: VM1052, VM1053, VM1068, VM1080, VM8873, VM1056

LDV: LDV192, LDV193, LDV196, H2587

Applications:

Chrysler: Voyager (01-08), Grand Voyager (01-08)

Jeep: Cherokee (01-08)

LDV: Maxus (05-09)

Engine Codes:

2.5D CRD: R2516C, R2516K, R2516LVM39/40B

2.8D CRD: R2816C5.05A, R2816K4

B**CHAIN****MERCEDES
CHRYSLER
JEEP****B Timing Chain Tool Kit - Mercedes, Chrysler, Jeep****Model No. VSE4802**

Timing chain splitting and fitting tool kit. Enables timing chain replacement with the minimum of engine dismantling. Suitable for Mercedes chain drive engines, and some Chrysler and Jeep applications. The kit includes tools to split the chain and also the temporary chain links required to fit the new chain. Supplied in a storage case with instructions.

OEM Tools:

Mercedes: 602.589.023.300, 602.589.003.900, 602.589.036.300, 112.589.069.300, 602.589.026.300, 602.589.046.301, 602.589.026.300, 602.589.026.400, 602.589.024.000, 103.589.016.300, 602.589.046.300

Applications:

Chrysler: 300C (05-11), PT Cruiser (02-09)

Jeep: Commander (05-11), Grand Cherokee (01-11)

Mercedes: A-Class (98-12), B-Class (05-12),

C-Class (98-13), CL-Class (99-07), CLC-Class (08-12), CLK-Class (98-09), CLS (05-18),

E-Class (97-16), GLK-Class (08-12), G-Class (00-15), M-Class (98-07), R-Class (05-07),

S-Class (98-13), SL-Class (98-07), Viano (03-10), Vito (03-10)

Engine Codes:

1.4: 166.94

1.5: 266.920

1.6: 166.960

1.7: 266.940

1.7D CDI: 668.940, 668.941, 668.942

1.9: 166.990

2.0: 266.960, 266.980

2.1D CDI: 646.811, 646.812, 646.820, 646.821, 626.951, 626.961, 626.962, 626.963, 626.966

2.2 CDI/CRD: 611.960, 611.961, 611.962

2.4: 112.910, 112.911

2.6: 112.912, 112.913, 112.914, 112.915, 112.916

2.7D CDI/CRD: 612.961, 612.962, 612.965, 612.967, 647.961

2.8: 112.920, 112.921, 112.922, 112.923

3.0D CDI/CRD: 642.830, 642.832, 642.834, 642.836, 642.838, 642.850,

642.852, 642.853, 642.854, 642.856, 642.858, 642.862, 642.868, 642.886, 642.910,

642.920, 642.921, 642.922, 642.930, 642.932, 642.960, 642.961, 642.970, 642.990

3.2D CDI: 613.960, 613.961, 648.960, 648.961

3.2: 112.940, 112.942, 112.943, 112.944, 112.946, 112.947, 112.951, 112.953, 112.955

3.9D CDI: 628.960, 628.961

4.0D CDI: 628.962, 629.910, 629.911

4.3: 113.940, 113.941, 113.942, 113.943, 113.948

5.0: 113.960, 113.961, 113.963, 113.964, 113.965, 113.966, 113.967, 113.968,

113.969, 113.971

D**CHAIN****MERCEDES****D Belt Tensioner Compression Tool - Mercedes - Chain Drive****Model No. VSE4310**

Tool for a range of Mercedes A - Class vehicles. Suitable for hydraulic tensioners fitted to vehicles with a stop/start function and/or air conditioning. Attempting to compress the tensioner without using this tool may result in damage to the tensioner.



A Timing Tool Kit
1.4D, 1.5D, 1.6D, 2.0D,
2.2D TDCi-HDi, Ford/Fiat/
Citroen/Peugeot - Belt Drive
Model No. VSE5930

Specialised timing tool kit covering belt replacement applications on a comprehensive range of PSA 1.4, 1.5, 1.6, 2.0 and 2.2HDi common rail diesel engines as well as some Fiat 2.0D and 2.2D JTD/Multijet common rail diesel engines. Includes tools for adjustable crankshaft timing gear.

OEM Tools:

Fiat: 1.867.030.000, 1.868.630.000
Ford: 303-732, 303-734, 303-735
PSA: 0188-P2, 0188-F, 0188-Y, 0188-D, 0188-X, 0194-B, 0194-A, 0194-C, 0188-M, 0153-AL, 0188-AH, 0188-Q, 0188-J1, 0188-J2, 0188-K

Applications:

Citroen: Berlingo (99-16), Berlingo III (14-18), C1 (05-10), C2 (03-10), C3 (02-17), C3IV (16-18), C4 (04-13), C4 Picasso/Grand Picasso (14-18), C4 Aircross (12-18), C4 II (14-18), C4 III (14-18), C5 (00-15), C8 (02-10), C-Crosser (07-12), DS3 (10-18), DS4 (11-13), DS5 (12-15), Evasion/Synergie (99-06), Dispatch (99-18), Jumpy & Relay (99-12), Jumpy IV (16-18), Jumper (99-12), Nemo (08-10), Picasso (99-06), Xantia (98-01), Xsara (99-06)
Fiat: Ulysse (02-06), Scudo (99-07)
Ford: B-Max (15-18), Ecosport (15-18), Fiesta (02-20), Fusion (02-11)
Peugeot: 107 (05-10), 1007 (05-10), 206 (99-06), 208 (14-18), 2008 (14-18), 306 (99-02), 307 (01-06), 308 (14-18), 3008 (14-18), 406 (00-06), 406 Coupe (98-04), 4008 (12-18), 508 (14-18), 5008 (14-18), 607 (00-06), 806 (99-02), 807 (02-06), Boxer (02-06), Expert (99-06), Expert IV (16-18), Partner (99-06), Partner III (14-17), Traveller (16-20)

Engine Codes: For full list of applications, please visit www.sealey.co.uk



C Timing Tool Kit
Fiat, Iveco, PSA - 2.2D, 2.3D,
3.0D - Belt/Chain Drive
Model No. VSE5036

Used for timing 2.2/2.3/3.0 belt and chain drive engines, including the later chain in head versions, usually found in light commercial vehicles. Features a water sensor installation socket, crankshaft turning tool, timing cover centring plate, oil pump setting plate as well as camshaft and crankshaft locking tools. These engines are also found in the Ford Transit.

OEM Tools:

Fiat/Iveco: 1.860.617.000/99360608, 2.000.016.500/99360614, 2.000.018.200/99360615
Citroen/Peugeot: 0191/2A, 0191/2B, 0198A, 0198B2, 0198D, 0198G
Ford: 303-698, 303-705/21-256

Applications:

Citroen: Relay/Jumper III (06-12)
Fiat: Ducato (02-13)
Iveco: Daily (03-10), Daily/EcoDaily (09-11)
Peugeot: Boxer III (06-12)
Engine Codes:
Citroen/Peugeot:
2.2D HDi: 4HM, 4HV
Fiat:
2.2D Multijet 100: 4HV
2.3D JTD: F1AE0481C
2.3D Multijet: F1AE0481D, F1AE0481N, F1AE3481E
3.0D Multijet: F1CE0481D, F1CE3481E, FCE13481M, F1CE3481N
Iveco:
2.3D: F1AE0481A, F1AE0481B, F1AE0481F, F1AE0481FA, F1AE0481G, F1AE0481GA, F1AE0481H, F1AE0481HA, F1AE0481R, F1AE0481RA, F1AE0481UA, F1AE0481VA
3.0D: F1CE0481A, F1CE0481B, F1CE0481F, F1CE0481H



B Diesel Engine Timing Tool Kit
PSA, Ford, Volvo 1.4D/1.5D/1.6D HDi/TDCi - Belt Drive
Model No. VSE5846

Set of locking pins for timing belt replacement on Ford 1.5, PSA 1.4 (DV4) and 1.6 (DV6) diesel engines fitted in Citroen, Peugeot, Ford, Mazda, Suzuki, Toyota and Volvo models. These timing pins lock and hold the camshaft, crankshaft, flywheel and HP pump in the timed position.

OEM Tools:

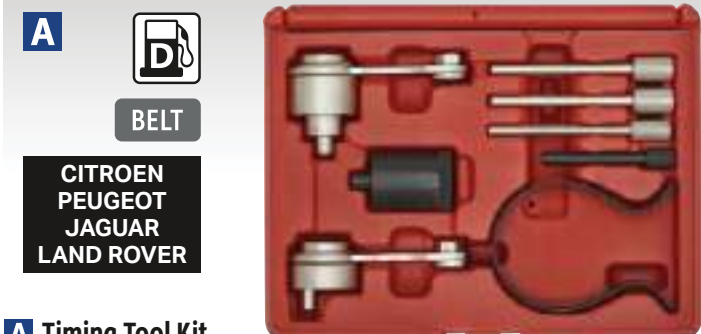
Flywheel Locking Pin (VSE5846.01): 303-734 (21-262) (Ford), 49JE02-020 (Mazda), 0194-C (PSA), 09910-05410 (Suzuki), 999-7169 (Volvo)
Camshaft/HP Fuel Pump Locking Pins (VSE5846.02): 11-0-790 (BMW), 303-735 (212-263) (Ford), 49JE02-021 (Mazda), 0194-B (PSA), 09910-05410 (Suzuki), 999-7122 (Volvo)
Crankshaft Locking Pin (VSE5846.03): 11-0-300 (BMW), 303-732 (21-260) (Ford), 49JE02-018 (Mazda), 0194-A (PSA), 09910-05410 (Suzuki), 999-7121 (Volvo)

Applications:

Citroen: Berlingo I/II (05-11), Berlingo III (08-18), Berlingo IV (14-19), C1 (05-10), C2 (03-10), C3 I/II (02-10), C3 III (10-18), C III IV (16-18), C3 Picasso (09-12), C3 Pluriel (04-10), DS3 (09-12), C4 (04-11), C4 II (11-18), C4 Picasso/Grand Picasso (06-18), C5 II (04-08), C5 III (07-12), DS4 (11-12), Nemo (08-10), Xsara II (04-08), Xsara Picasso (04-10)
Ford: B-Max (12-18), C-Max (07-15), EcoSport (13-18), Fiesta (02-20), Focus (04-18), Focus C-Max (03-18), Fusion (04-11), Grand C-Max (10-18), Tourneo Courier (14-16)
Mazda: 2 (02-10), 3 (04-12), 5 (10-12)
Peugeot: 107 (05-10), 1007 (05-10), 206 (01-12), 206+ (10-13), 206CC (05-07), 207 (06-13), 207CC (07-15), 208 (12-18), 2008 (12-17), 307 (01-08), 308 (07-18), 308CC (09-17), 3008 (09-18), 407 (04-11), 4008 (12-15), 508 (11-18), 5008 (09-18), Bipper (08-10), Expert (10-12), Partner I/II (05-11), Partner III (08-18), Rifter (18-19), Traveller (16-20)
Suzuki: Liana (04-08), SX4 (07-11)
Toyota: Aygo (05-10)
Volvo: C30 (06-13), S40 (04-12), S60 (11-15), S80 (09-15), V40 (12-15), V50 (04-12), V60 (11-15), V70 (11-15)

Engine Codes:

1.4D: F6JA, F6JB
1.4D D-4D: ZWZ-TV
1.4D DDiS: (DV4)8HY
1.4D HDi: DV4C(8HR), DV4TD(8HT), DV4TD(8HW), DV4TD(8HX), DV4TD(8HZ), DV4TED(8HS), DV4TED4(8HX), DV4TED4(8HY), DV4TED4(8HV)
1.4D TDCi: F6JA, F6JB, F6JC, F6JD, KVJA
1.5D TDCi: ENUG, UGCA, UGJC, XUJA, XUJB, XUJC, XUJF, XUJG, XUJH, XUJK, XUJL, XUJN, XUJM, XWDA, XWDB, XWDC, XWDD, XWDE, XWJB, XWJC, XXDA, XXDB, XXDC, XXDD
1.6D: Y6, MZ-CD(Y6)
1.6D DDiS: DV6(9HX)
1.6D eDrive: D4162T, D4164T
1.6D eHDi: DV6C(9HR), DV6FC(BHW), DV6FC(BHX), DV6FC(BHY), DV6FC(BHZ), DV6FDU(BHV), DV6FCU(BHX), DV6FDU(BHS)
1.6D HDi: DV6(9HR), DV6ATED(9HX), DV6ATED(9HY), DV6ATED4(9HX), DV6ATED4(9HX), DV6BTED4(9HT), DV6BTED4(9HW), DV6BUTED4(9HT), DV6C(9HL), DV6C(9HR), DV6C9(HR), DV6CATED(9HX), DV6D(9HP), DV6DTED(9HJ), DV6DTED(9HP), DV6ETED(9HN), DV6DTED(9HF), DV6FD (BHY), DV6FE (BHW), DV6TED(9HP), DV6TED4(9HV), DV6TED4(9HW), DV6TED4(9HX), DV6TED4(9HY), DV6TED4(9HZ), DV6TED4B(9HV), DV6TED4BU(9HS), DV6UTED4(9HU), DV6UTED4(9HX), DV6UTED4(9HV)
1.6D TDCi: G8DA, G8DB, G8DD, G8DE, G8DF, GPDA, GPDC, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, MTDA, NGDA, T1DA, T1DB, T3DA, T3DB, T3JA, T3JB, TZJA, TZJB, UBJA
1.6D TDCi ECONetic: G8DD, GPDA, HHJD, TZJA, TZJB
2.0D HDi: DW10FC(AHH), DW10FD(AHX)



A Timing Tool Kit Citroen, Jaguar, Land Rover, Peugeot 2.7D, 3.0D - Belt Drive Model No. VSE5000A

Suitable for timing belt replacement on 2.7 and 3.0 V6 diesel engines fitted in Citroen, Jaguar, Land Rover (TDV6) and Peugeot vehicles. Kit contains camshaft locking and checking pins, flywheel locking tools, coolant pump pin and belt retaining clip.

OEM Tools: 303-1116, 303-1117, 303-1126, 303-1132, 0188-K, 0195-C, 0195-H, 0195-K

Applications:

Citroen: C5 III (07-14), C6 (05-09)

Jaguar: S-Type (04-08), XF (08-20), XJ (10-20), XJ6 (05-10), F-Pace (16-20)

Land Rover: Discovery (17-18), Discovery 3 (04-09),

Discovery 4 (09-17), Range Rover (12-20), Range Rover Sport (05-20), Velar (17-20)

Peugeot: 407 (04-09), 407 Coupe (06-12), 607 (04-11)

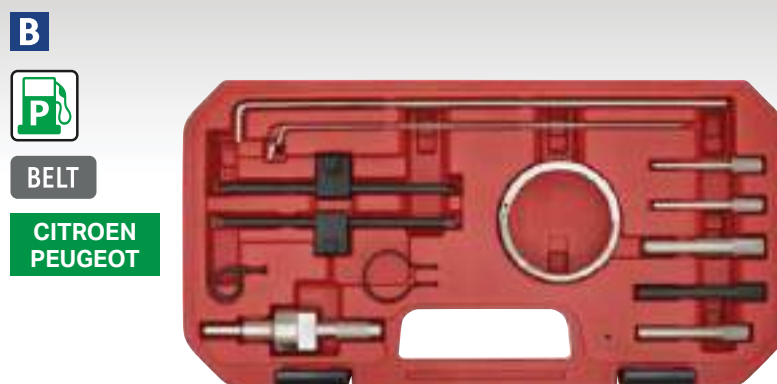
Engine Codes:

2.7D/TDV6/TDVi: 276DT, 7G

2.7D HDi: DT17BTED4(UHZ)

3.0D HDi: D20CTED4(X8Z), DT20C(X8C), DT20C(X8Z)

3.0D SDV6/TDV6: AJV6D, 306DT, AJ-V6D/306DT



B Timing Kit - Citroen, Peugeot 1.8, 2.0 - Belt Drive Model No. VSE5936

Essential tools for timing belt replacement on 1.8 and 2.0 petrol 'EW code' engines. Features flywheel/drive plate, tensioner pulley adjuster and tensioner locking tool. Many of the timing pins are also suitable for other petrol/diesel PSA engines. Supplied in storage case.

OEM Tools: 0189S1, 0189S2, 0132AB / 0194A/0178D, 0194B, 0188M, 0189B, 0188AH, 0189R, 7017TR / 0153U, 0188J2, 0188J/J2, 0178E / 5711TE

Applications:

Citroen: C4 Picasso/Grand Picasso (06-10), C5 II (04-08), C8 (05-10),

Dispatch/Jumpy (07-11), Xsara 2.0 16v, C5 1.8/2.0/HPi, Xsara Picasso 1.8/2.0 16v (02-05)

Peugeot: 406 1.8 16v (00-04), 407 (06-10), 807 2.0 16v (02-05)

Engine Codes:

1.8 16v: EW7A(6FY)

2.0 16v: EW10A(RFJ), EW10ABE4(RFH), EW10J4S(RFK)



C Timing Tool Kit - Fiat, Iveco, PSA, Renault, GM 2.5D, 2.8D - Belt Drive Model No. VSE5976

Includes locking pins for 2.5D and 2.8D diesels and later 2.8DTi/JTD/HDi variants of this popular van engine. Also includes a tensioner retaining tool which retains the tension plunger in a retracted position during the belt change.

OEM Tools: 1.860.617.000/99360608-A60617/Mot910/KM-966, 1.860.638.000, Mot1054/KM-6031

Applications:

Citroen: Relay/Jumper (01-02), Relay/Jumper II (02-06)

Fiat: Croma (86-97), Ducato (86-06), Talento (87-94)

Iveco: Daily (91-06), Turbo Daily (91-00)

Peugeot: Boxer (00-02), Boxer II (02-06)

Renault: Mascot (99-07), Master (89-98),

Master II (98-01), Trafic (80-00)

Vauxhall/Opel: Arena (97-01), Movano-A (98-03)

Engine Codes:

2.5D/DT: 8140.07, 8140.27,

8140.47, 8140.97, 8144.21, 8144.61, 8144.67, 8144.91,

8144.97, 8140.27S, 8140.47R, 8140.67F.37, 8144.97Y,

S8U 720, S8U 722, S8U 730, S8U 731, S8U 742, S8U 748,

S8U 750, S8U 752, S8U 758, S8U 770, S8U 772, S8U 780,

S8U 782, S9U 700, S9U 702, S9U 704, S9U 714, S9U 740

2.8D/TDi/HDi/dCi: 8140.43S, 8140.43,

8140.63, 8140.23.37, 8140.23.38, 8140.43.37, 8140.43B,

8140.43C, 8140.43N, 8140.43R, 8140.43S, S9W 206,

S9W 208, S9W 212, S9W 700, S9W 702



D Timing Tool Kit - Citroen, Peugeot TU3/ET3 1.4 8v/16v - Belt Drive Model No. VSE5046

Suitable for PSA ET3 code twin camshaft engines. Supplied with timing tools required for timing belt replacement on TU3 1.4 single camshaft engines. Kit includes camshaft and flywheel locking pins, tensioner locking pin and timing belt retaining clip.

OEM Tools: 4533-TAC1/0132-AJ1/0189-B/0178-B/0188-M/01194-B, 0132-RZ/4507-TB, 4507-TA/0132-QY, 4200-TH/0153-AL, 4533-TAD/0132-AK/0188-K/0153-AK/0189-K/0153-AE, 0178-D/0194-A/0132-AB/4527-TS2/5711-TD, 4507-TA/0132-QY

Applications:

Citroen: Berlingo I/II/First (97-11), C2 (03-10),

C3 I/II/First/Classic (02-10), C3 III (10-13), C3 Pluriel (03-10),

C4 (04-11), Nemo (08-15), Saxo (96-03), Xsara I/II (97-04)

Peugeot: 1007 (05-10), 206 (98-09), 206+ (09-13),

207 (06-13), 307 (01-08), Bipper (08-15), Partner (05-11)

Engine Codes:

1.4 8v: TU3A/JP/L3/L4 (KFT, KfV, KfW, KfX)

1.4 16v: ET3J4 (KFU)



E Timing Tool Kit - Fiat, Iveco, Citroen, Peugeot - 2.3D, 3.0D - Belt/Chain Drive Model No. VSE5037

Suitable for setting and locking Fiat 2.3D JTD diesel engine (belt driven), Fiat 3.0D JTD diesel engine (chain driven) and Citroen/Peugeot 3.0D HDi diesel engine (chain driven). Set comprises camshaft setting pins, crankshaft locking pin and sensor locking pin.

OEM Tools: 99360614/(-).0191/2.B, 99360615/2.000.018.200/(-).191/2.A, 99360608/1.860.617.000

Applications:

Citroen: Relay/Jumper III (06-14)

Fiat: Ducato (02-11)

Iveco: Daily (03-10), Daily/EcoDaily (09-11)

Peugeot: Boxer III (06-14)

Engine Codes:

2.3D: F1AE0418A, F1AE0481B, F1AE0481C,

F1AE0481D, F1AE0481F, F1AE0481FA, F1AE0481G,

F1AE0481H, F1AE0481HA, F1AE0481N, F1AE0481R,

F1AE0481UA, F1AE0481VA

3.0D: F1CE01481D, F1CE0441F, F1CE0481A,

F1CE0481B, F1CE0481F, F1CE0481FA, F1CE0481H,

F1CE3418M, F1CE3481CC, F1CE3481LC

3.0HDi: F30DTE, (F1CE0481D), (F1CE3481DM),

(F1CE3481N)



A Timing Tool Kit Ford, Mazda, PSA 1.4, 1.5, 1.6, 1.8, 2.0 TDCi/HDi - Belt Drive Model No. VSE5941

Comprehensive kit covers Ford, Mazda and PSA 1.4, 1.5, 1.6, 1.8, 2.0 TDCi/HDi belt drive diesel engines. Includes camshaft, crankshaft and high pressure pump locking tools plus camshaft sprocket removal tool. Kit includes warning tag.

OEM Tools:

Ford: 303-393, 303-393/01, 303-376B, 303-651, 303-193, 303-1059, 303-732, 303-734, 303-735

Mazda: 303-732, 303-734, 303-735

PSA: 0194-A, 0194-C, 0194B

Applications:

Citroen: C1 (05-10), C2 (03-10), C3 I/II (02-10), C3 III (10-15), C3 Pluriel (04-10), C3 Picasso (09-12), C4 (04-11), C4 II (11-15), C4 Picasso (06-12), C4 Grand Picasso (10-12), DS3 (09-12), DS4 (11-12), DS5 (12-15), C5 II (04-08), C5 III (04-12), Xsara II (02-04), Xsara Picasso (04-10)

Ford: B-Max (15-18), Courier (00-02), C-Max (03-10), Ecosport (15-18), Fiesta (02-20), Focus (98-11), Fusion (02-11), Galaxy (06-10), Kuga (06-10), Mondeo (07-10), S-Max (06-10), Tourneo Connect (02-13), Transit Connect (02-13)

Mazda: 2 (02-15), 3 (09-14)

Peugeot: Bipper (08-10), Dispatch/Jumpy III (07-12), Expert III (07-12), Nemo (08-10), Partner I/II (05-11), Partner III (08-16), 107 (05-10), 1007 (05-10), 206 (01-12), 206+ (09-13), 206CC (05-07), 207 (06-13), 207CC (07-15), 208 (11-15), 307 (01-08), 308 (07-15), 308CC (09-15), 407 (05-11), 508 (04-15), 2008 (13-15), 3008 (09-15), 4008 (12-15), 5008 (09-15) Traveller (16-20)

Engine Codes:

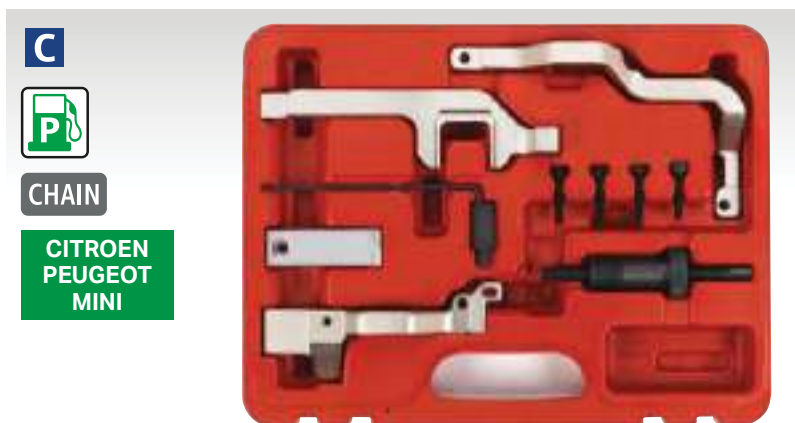
1.4D TDCi DV4TD(8HT), DV4TD(8HX), DV4TD(8HZ), DV4TD(8HW), DV4TED4(8HX), DV4TED4(8HV), DV4TED4(8HY), DV4C(8HP), DV4C(8HR), DV4TED(8HS), F6JA, F6JB, F6JC
1.6D TDCi DV6TED4(9HZ), DV6ATED4(9HX), DV6TED4(9HY), DV6DTED(9HP), DV6C(9HR), DV6CATED(9HX), DV6C(9HL), DV6TED(9HP), DV6ATED(9HY), DV6TED4(9HV), DV6TED4(9HX), DV6C(9HD), DV6C(BHX), DV6C(BHZ), DV6(9HR), DV6BTED4(9HW), DV6DTED(9HJ), DV6ETED(9HN), DV6TED4BU(9HS), DV6BTED4(9HT), DV6BUTED4(9HT), DV6TED4B(9HV), DV6UTED4(9HX), DV6TED(9HD), DV6UTED4(9HU), DV6D(9HP), DV6TED4(9HV), DV6C(9HD), DV6TED4(9HW), DV6AT(9HX), DV6ATED(9HX), DV6CTED(9HC), DV6AUTED4(9HX), DV6TED4B, DV6DTED(9HF), HHJA, HHJB, G8DA, G8DB, HHDA, HHDB, MZ-CD, Y6

1.8D TDCi BHPA, C9DA/B, FFBA, G6DA, G6DB, G6DC, HCPA, HCBP, KKDA, P7PA, P9PA, R2PA, R3PA, RWPA

1.8D: C9DC, RTN, RTQ

1.8D TDi: C9DA/B, C9DC

2.0D TDCi/HDi: AZWA, G6DA, G6DB, G6DC, RHE(DW10CTED4), QXWA, QXWB



C Timing Tool Kit BMW Mini, Citroen, Peugeot 1.4, 1.6 16v- Chain Drive Model No. VSE6131

Suitable for timing 1.4 and 1.6 16v Valvetronic direct injection, chain drive petrol engines, fitted in BMW Mini, Citroen and Peugeot vehicles. Supplied in storage case with comprehensive instructions.

OEM Tools:

BMW Mini: 11.5.540, 11.5.590, 11.9.340, 11.9.550

Citroen: 0197-A1, 0197-A3, 0197-B

Peugeot: 0197-A1, 0197-A3, 0197-BZ

Applications:

BMW Mini: Mini Clubvan R55 (12-14), Mini Clubman R55 (08-14), Mini Countryman R55 (07-10), Mini Clubman R56/ R57 (07-15), Mini R56/R57 (08-15), Mini Coupe R58 (11-15), Mini Roadster R59 (08-15), Mini Clubman R60 (10-14), Mini Clubvan R60 (12-14), Mini Roadster R61 (13-15), Mini Paceman R61 (14-17), Mini Countryman R60 (10-17)

Citroen: C4 (08-11), C4 Picasso (08-13) C4 Grand Picasso (13-15)

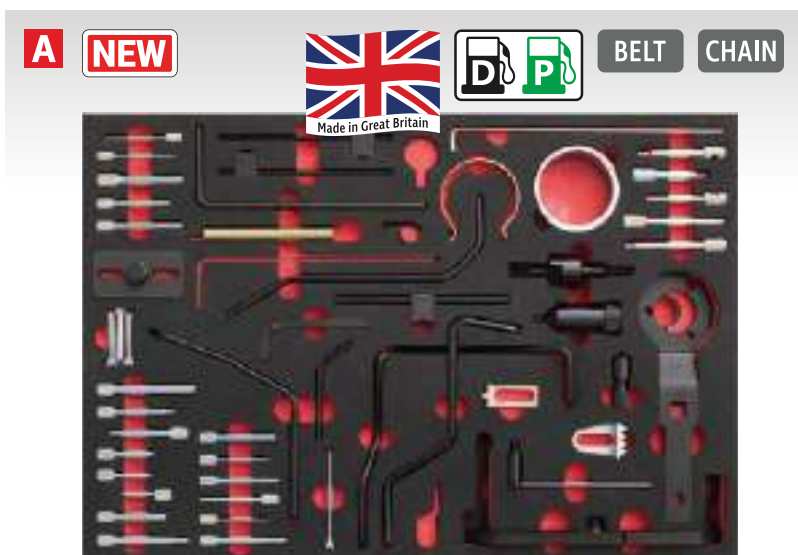
Peugeot: 207 (06-14), 207CC (07-15), 308 (07-15), 3008 (09-15), 5008 (09-15)

Engine Codes:

1.4: N12B14, N12B14AB

1.6: EP3(8FS), EP3C(8FR), EP6(5FW), EP6C(5FS), EP6CDT(5FV), EP6DT(5FT), EP6DT(5FX), EP6DTS(5FY), N14B16A, N14B16CD, N14B16T0, N14B16CD/T0, N16B16A, N16B16K0, N16B16A/M0, N16B16A/MQ, N16B16M0, N16B16U0

Associated Tool: VSE6156 - Balance Shaft Alignment Tool Kit - BMW, BMW Mini, Citroen, Peugeot - Chain Drive (see page 394)



A 48pc Master Timing Tool Kit - PSA - Belt/Chain Drive Model No. VS5300MK

Master Timing Tool Kit for PSA vehicles. Covers a wide range of petrol and diesel engines. Suitable for popular PSA vehicles from 1993 to present. Also suitable for a small range of GM vehicles. Supplied in a high quality storage foam suitable for toolbox drawers. Foam size: 560 x 390 x 45mm.

Applications:

Citroen: Berlingo I (99-07), Berlingo II (97-07), Berlingo III (02-18), BX (93-94), C-Crosser (07-12), C-Elysee (10-18), C1 (05-10), C2 (02-10), C1 II (14-20), C15 (93-02), C3 I (02-10), C3 II (02-10), C3 Classic (02-10), C3 III (05-17), C3 Picasso (14-17), C3 Pluriel (03-10), C4 (04-11), C4 II (11-18), C4 Cactus (14-18), C4 II Picasso (06-18), C4 II Grand Picasso (06-15), C4 Space Tourer (2018), C5 (00-04), C5 II (04-10), C5 III (10-15), C6 (06-11), C8 (02-15), Dispatch I (99-07), Dispatch II (07-12), Dispatch III (07-16), Jumpy I (94-07), Jumpy II (99-07), Jumpy III (07-16), DS3 (14-15), DS4 (11-15), DS5 (12-15), Relay I (94-06), Relay II (02-06), Jumper I (97-06), Jumper II (99-07), Jumper III (07-12), Nemo (08-15), Saxo (96-03), Synergie (9-02), Xsara I (97-00), Xsara II (00-10), Xsara Picasso (95-10), Xantia (95-01)

Peugeot: 106 (97-03), 1007 (05-10), 107 (05-10), 108 (14-18), 206 (98-09), 206CC (00-07), 206+ (01-13), 207+ (12-14), 2008 (13-18), 208 (12-21), 301 (12-20), 306 (96-03), 307 (01-09), 308CC (03-09), 3008 (09-21), 308 (07-21), 308CC (09-15), 406 (96-04), 406 Coupe (99-06), 4007 (07-10), 407 (04-11), 407 Coupe (07-09), 5008 (09-21), 508 (09-21), 605 (95-00), 607 (00-11), 806 (98-02), 807 (02-15), Bipper (08-15), Boxer (94-02), Boxer II (01-06), Expert I (99-16), Expert II (99-16), Expert III (07-16), Expert IV (16-20), Partner I (99-11), Partner II (99-11), Partner III (08-18), Partner IV (18-21), Rifter (19-21), RCZ (14-20), Traveller (16-20)

GM: Combo E (18-20), Crossland X (18-20), Grandland X (17-20)

Engine Codes:

1.0: EB0F (ZMZ), EBO (ZMZ), CDY (TU9MY), CDZ (TU9MY), CDY (TU9M/L3), CDZ (TU9ML), TU9M (CDY), TU9M CDZ

1.1: HFX (TU1JP), HFX (TU1V), HFV (TU1A), HFX (TU1JP/L4), HDY (TU1M/L3), HDZ (TU1M/L3), HMZ (TUM1/L3), TU1JP (HFX), TU1JP (HFY), TU1JP (HFZ)

1.2: HNZ (EB2DT), HMZ (EB2F), HMZ (EB2), HNY (EB2DTS), HMY (EB2M), HMY (EB2M), HMY (EB2D), EB2ADT (HNK), EB2ADJ (HNP), EB2D (HMT), EB2 (HMZ), EB2DT (HNZ), EB2F (HMX), EB2F (HMZ), EB2DTS (HNY), EB2FA (HMR), EB2M (HMY), HNZ (EB2DT), B2ADTS/LEG, EB2ADJ (HNP), EB2DTM (HNV), EB2DTS/LEG, EB2ADTS(HNS)/LES/D12, EB2ADT(HNP)/LES/D12XHT, EB2ADTS(HNS)/LES/D12XHT, EB2DTS/LES/B12XHT, EB2ADT/LES, EB2DT/LES, EB2F/LES, EB2FA/LEZ, EB2FAD (HMH), EB2FAD (HMM)

1.4: 8HT (DV4TD), TU3JP/IFL4 (KFX), TU3A (KFT), KFV (TU3A), TU3A (KFV), TU3JP (KFV), TU3A (KFW), ET3JP4 (KFU), TU3JP/L3 (KFX), ET3J4 (KFU)

1.4D: 8HS (DV4TED), 8HT (DV4TD), 8HW (DV4TD), 8HX (DV4TD), 8HV (DV4TED4), 8HX (DV4TED4), 8HY (DV4TED4), 8HZ (DV4TD), DV4TD (8HT), DV4TD (8HX), DV4TD (8HZ)

1.5: TUD5B (VJY), TUD5 (VJY), TUD5 (VJZ), TUD5B (VJX)

1.6: NFP (EC5F), NFS (TU5JP4S), NFT (TU5JP/L4), NFU (TU5JP4), NFU (TU5JP4/L4), NFV (TU5JP/L4), NFX (TU5JP4/L3), TU5J2 (NFW), TU5J4 (NFU), TU5J4/L3 (NFX), TU5J4/L4 (NFX), TU5JP (NFT), TU5JP/L3 (NFZ), TU5JP4 (NFU/NFZ), TU5JP4B (NFR)

1.7D: 161A (XUD7/L), XUD7 (161A)

1.8: EW7A (6FY), 6FY (EW7A), EW7J4 (6FZ), LFX (XU7JB/L3), LFY (XU7JP4/L3), LFZ (XU7JP/L3), XU7JB (LFX)

1.9D: WJY (DW8B/LW4), WJY (DW8B), WYZ (DW8B/L4), WJZ (DW8/L/W3), (DHX) XUD9UTF, (DJY) XUD9Y

2.0: RFN (EW10J4R/L5), RFS (XU10J4RS/L3), RFN (EW10J4/L4), RFH (EW10A), RFW (XU10J2U), RFL (XU10J2U), EW10D (RLZ), EW10J4 (RFN), EW10J4 (RFR), EW10J4/L5 (RFN), EW10J4S (RFK), XU10J2U (RFL), XU10J2U/X3 (RFW), XU10J4R (RFV)

2.0D: RHD (DW10C), RHE (DW10CTED4), RHZ (DW10ATED), RHH (DW10C), RHH (DW10CTED4), RHD (DW10CTED4), RHK (DW10UTED4), RHM (DW10ATED4), RHR (DW10BTED4), RHT (DW10ATED4/L4), RHW (DW10ATED4), RHC (DW10CTED4), RHY (DW10TD), RHG (DW10UTED4), RHW (DW10JATED4), RHX (DW10ATED/L3), RHX (DW10BTED/L3), RHV (DW10UTD), DW10TD (RHY), DW10ATED (RHS), DW10BTED4 (RHR), DW10BTED4 (RHF), DW10FD (AHR), DW10FD (AHX), DW10FC (AHW), DW10CTED4 (RHC), DW10CTED4 (RHD), DW10CTED4 (RHE), DW10FD (AHV), DW10FD (AHS), DW10ATED (RHZ), DW10ATED4 (RHM), DW10BTED4 (RHL), DW10ATED4/L4 (RHT), DW10UTD (RHV), DW10CE (AHY), DW10BTED (RHX), DW10CD (AHZ), DW10CTED4 (RHH), DW10UTED4 (RHK)

2.2: 3FZ (EW12J4/L5), 4HK (DW12MTED4), 4HL (DW12CTED4), 4HN (DW12MTED4), 4HP (DW12BTED4), 4HR (DW12BTED4), 4HS (DW12BTED4), 4HT (DW12BTED4), 4HW (DW12TED4/L4), 4HX (DW12TED4), 4HY (DW12UTED), DW12ATED (4HZ), DW12ATED4/L4 (4HW), DW12BTED4 (4HS/4HT), DW12MTED4 (4HN), DW12UTED (4HY), EW12J4 (3FY/3FZ), EW12J4/L5 (3FZ)

2.5D: T9A (DJ5), THX (DJ5TDI), THX (DJ5TED), DJ5 (T9A), DJ5TED (THX)



B Crankshaft Holding Tool - Citroen, Peugeot, Toyota, Vauxhall 1.0, 1.2 - Belt Drive Model No. VSE5093

Designed to counter-hold the crankshaft pulley to release and tighten the centre bolt. Suitable for 1.0 and 1.2 Citroen, Peugeot, Toyota and Vauxhall engines.

OEM Tools:

Toyota: 09960-10010

Applications:

Citroen: Berlingo IV (18-20), C1 II (14-18), C3 III (12-17), C3 IV (16-18), C4 Cactus (14-20), C4 Aircross (18-20), C-Elysee (12-18), DS3 (12-18)

Peugeot: 108 (14-18), 208 (12-21), 2008 (13-21), 301 (12-20), 308 (13-21), 3008 (16-21), 508 (19-21), 5008 (14-21), Partner III (15-18) Partner IV (18-21) Rifter (19-21)

Toyota: Aygo (14-18)

Vauxhall: Crossland X (17-20), Combo E (18-20), Grandland X (17-20)

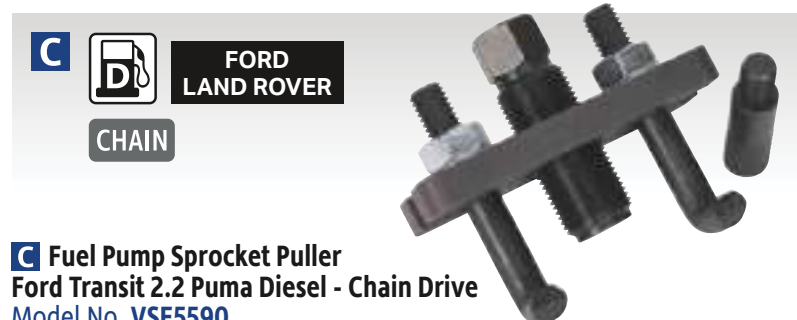
Engine Codes:

1.0 VTi: EBO(ZMZ), EBOF(ZMZ), ZMZ(EBO)

1.2 VTi: HMZ (EB2F), EB2F (HMZ)

1.2 PureTech THP: HNZ (EB2DT)

1.2 PureTech VTi: EB2ADS (HNS), EB2D (HMT), EB2ADJ (HNP), EB2ADT (HNK), EB2ADTX (HNN), EB2DTS (HNV), EB2DTM (HNV), EB2DTS (HNV), EB2FA (HMR), EB2FAD (HMH), EB2FAD (HMM), EB2DT (HNZ), EB2F (HMX), EB2F (HMT), EB2F (HMZ), EB2DTS (HNY), EB2M (HMY)



C Fuel Pump Sprocket Puller Ford Transit 2.2 Puma Diesel - Chain Drive Model No. VSE5590

Suitable for removing fuel pump sprocket on the Ford 2.2 Duratorq Puma chain diesel engines. From 2011 the fuel pump sprockets no longer have threaded holes fitted in them. This tool is a great time-saver as it allows the fuel pump to be removed without disturbing the timing chain.

OEM Tools: 303-249, 303-249/01

Applications:

Ford: Transit (11-14)

Land Rover: Defender (11-16)

Engine Codes:

2.2D: BG, ID4, QJBA

2.2D TDCi: CVRA, CVRB, CYFA, CYFB, CYRA, CYRB, DRFA, DRFB, DRRR, DRRR



A 36pc Master Timing Tool Kit - Ford - Belt/Chain Drive Model No. V55200MK

Master timing tool kit for Ford vehicles. Covers a wide range of petrol and diesel engines from 1.0 to 3.2. Suitable for popular Ford vehicles from 1993 to present. Supplied in a high quality storage foam suitable for toolbox drawers. Foam size 560 x 390 x 45mm.

Applications:

Ford: B-Max (12-18), C-Max (03-20), Cougar (98-01), Courier (96-02), EcoSport (13-18), Edge (15-18), Escort (93-02), Fiesta (95-18), Focus (98-18), Fusion (02-11), Galaxy (06-18), Grand C-MAX (10-20), Grand Tourneo Connect (13-18), Kuga (08-20), Mondeo (00-19), Orion (93-94), Puma (97-02), Ranger (11-20), S-MAX (06-18), Tourneo Connect (02-18), Tourneo Courier (14-20), Tourneo Custom (12-16), Transit (00-18), Transit Connect (02-18), Transit Courier (14-21), Transit Custom (14-16)

Engine Codes:

1.0: M1CA, M1CB, M1DD, M2DC, M2DA, M1JA, M1JE, M1JH, SFJB, SFJA, SFJD, P4JA, P4JB, P4JC, P4JD, SFJE, XMJA, XMJB, XMJC, XMJD, M1JC, M1JJ, M2DB, M2GB, SFDA, SFDB, SFDC, M2GA, SFCA, SFCB, SFCC, SFCD, SFCE, SFCF
1.2S: DHA, DHB, DHC, DHD, DHE, DHF, DHG, F8JA, F8JB, FUJA, FUJB, M7JA, M7JB, SNJA, SNJB, SNJC, SNJD, STJA, STJB, STJC, STJD
1.4: ASDA, ASDB, FXJA, FXJB, FXJC, FXDA, FXDB, FXDC, FXDD, RTJA, RTJB, RTJC, RTJD, RTEJ, SPJA, SPJC, SPJD, SPJE

1.4TDCi: F6JA, F6JB, F6JC, F6JD, UTJA

1.5 EcoBoost: ENUG, M8DA, M8DB, M8DD, M8DE, M8MA, M8MB, M9DA, M9DB, M9DG, M9DH, M9MA, M9MC, M9MD, M9ME, UEJA, UEJB, UEJE, UNCA, UNCB, UNCC, UNCD, UNCE, UNCF, UNCJ, UNCK

1.5TDCi: UGJC, XUJA, XUJB, XVJA, XVJC, XXDC, XXDA, XWDE, XWDD, XWDA, XWDC, XWDB, XWDG, XXDD, XXDE, XUJH, XVJB, XUJF, XUJG, XUJK, XXDB, XVGA, XUGA, XVGB, XVGC, XWGB, XWGA, UGCA, UGCB, XWCA, XWCB

1.6: FYDA, FYDB, FYDC, FYDD, FYDH, FYJA, FYJB, FYJC, HWDA, HWDB, HXDA, HXDB, HXJA, HXJB, IQDA, IQDB, IQDC, IQJA, IQJC, JQDA, JQDB, JQMA, JQMB, JTBA, JTBB, JTMA, JTWA, JTWB, JTDA, JTDB, JQGA, JTJA, JTJB, JTJC, L1T, L1V, L1W, KGBA, MUDA, MUDD, PNBA, PNDA, PNDD, RHBA, RVJA, SHDA, SHDB, SHDC, SIDA, U5JA, XTDA, XTDB

1.6TDCi: G8DA, G8DB, G8DC, G8DD, G8DE, G8DF, GPDA, GPDB, GPDC, HHDA, HHDD, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, NGDA, MTDA, UBJA, T1BA, T1BB, T1BC, T1DA, T1DB, T1GA, T1WA, T1WB, T3DA, T3DB, TZJA, TZJB, T3JA, T3JB, UGBA

1.7: MHA, MHB
1.8: CDBB, CGBA, CGBB, CHBA, CHBB, CSDA, CSDB, EYDB, EYDC, EYDD, EYDE, EYDF, EYDG, EYDI, EYDJ, EYDL, EYPA, EYPC, QQDA, QQDB, QQDC

1.8TDCi: BHDA, BHDB, BHPA, C9DA, C9DB, C9DC, F9DA, F9DB, FFBA, FFDA, FFWA, HCPA, HCPB, KHBA, KKDA, KKDB, P7PA, P7BA, P9PA, P9PB, Q7DA, R2PA, R3PA, RFD, RFK, RTJ, RTK, RTN, RTP, RWPA, RWPC, RWPB, RWPE, RWPF

2.0: ALDA, AOA, AOB, AODA, AODB, AODE, AOWA, AOWB, AZBA, AZBC, CJB, CJB, D3FA, D5BA, D6BA, EDBA, EDBB, EDBC, EDBD, EDDA, EDDC, EDDD, EDDF, HJBA, HJBB, HJBC, HJBE, HMBA, N4JB, SDBA, SYDA

2.0TDCi: ABFA, AZWA, AZWC, FIFA, G6DA, G6DB, G6DC, G6DD, G6DE, G6DF, G6DG, T7DA, T7DB, T7DD, T7CE, T7CF, T7CJ, T7CK, T7CL, T7CN, T7CP, T7MA, T7MB, T8CC, T8CD, T8CH, T8CI, T8CJ, T8CL, T8DA, T8DE, T8MA, T8MB, T9CA, T9CB, T9CC, T9CE, TBBA, TBBC, TBWA, TBWB, TXBA, TXDA, TXDB, TYBA, YDA, TYWA, UFBA, UFBB, UFCA, UFCB, UFCD, UFDA, UFDB, UFMA, UFWA, UKBA, UKBB, UKDA, UKDB, UKMA, UKWA, XRNA, XRM, XRM, FMBA, FMBB, KLBA, IXDA, KLWA, LPBA, N7BA, N7BB

2.2TDCi: CRFF, CVF5, CVF5, CVR5, CVRA, CVRB, CVF5, CYFA, CYFB, CYFF, CYFG, CYR5, CYRA, CYRB, DRF5, DRFA, DRFB, DRFC, DRFG, DRR5, DRR, GBVA, KNBA, KNBB, KNWA, KNWB, P8FA, P8FB, PGFA, PGFB, Q4BA, Q4WA, QJBA, QJBB, QJBC, QJBD, QVFA, QWFA, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, UHFB, UHR5, USRA, USRB, UYR6

2.3: GFZA, GFZB, GFZC, SEBA, SEWA

2.4TDCi: D2FA, D2FB, DOFA, D4FA, F4FA, FXFA, H9FA, H9FB, H9FD, JXFA, JXFC, PHFA, PHFC

3.2TDCi: SA2R, SAFA, SAFB



B Timing Tool Kit - PSA, Toyota 1.0 VTi, 1.2 VTi - Belt Drive Model No. VSE5092

Contains the essential tools required for timing belt replacement on PSA 1.0 and 1.2 VTi Pure-Tech 3-cylinder belt drive petrol engines. Supplied in storage case.

OEM Tools: 0109-2A, 0109-2B

Applications:

Citroen: Berlingo IV (18-20), C1 II (14-18), C3 III (12-17), C3 IV (16-18), C4 Cactus (14-20), C4 Aircross (18-20), C-Elysee (12-18), DS3 (12-18)

Peugeot: 108 (14-18), 208 (12-21), 2008 (13-21), 301 (12-20), 308 (13-21), 3008 (16-21), 508 (19-21), 5008 (14-21), Partner III (15-18), Partner IV (18-21), Rifter (19-21)

Toyota: Aygo (14-18)

Vauxhall: Crossland X (17-20), Combo E (18-20), Corsa F (19-20), Grandland X (17-20)

Engine Codes:

1.0 VTi: EBO (ZMZ), EBOF (ZMZ), ZMZ (EBO)

1.2 VTi: 1PP (HM01), EB2 (HMZ), EB2DTS (HNY), EB2 (HMW), EB2M (HMY), EB2 (HMZ), EB2DTS (HNY), HMP (EB2FB), HMT (EB2D), HMU (EB2D), HMY (EB2M), HMZ (EB2), HMZ (EB2D), HMZ (EB2F), HMZ (EB2FB), HMZ (EB2F), EB2F (HMZ), HNZ (EB2DT)

1.2 E-VTi: HNZ (EB2DT)

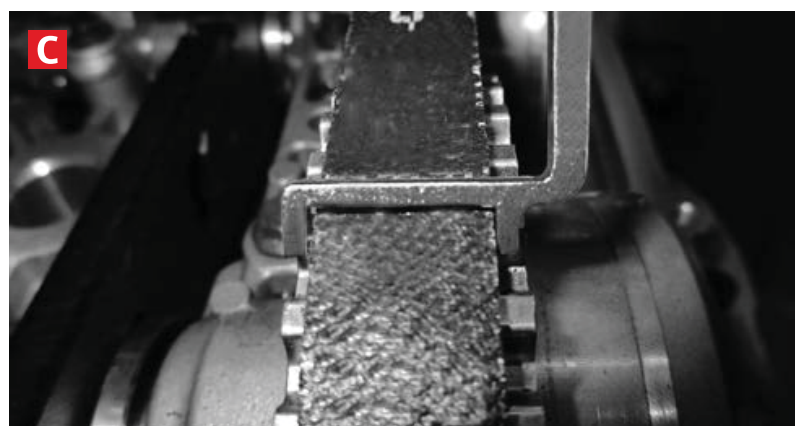
1.2 PureTech THP: EB2ADS (HNS), EB2D (HMT), EB2ADJ (HNP), EB2ADT (HNK), EB2ADTX (HNN), EB2DTS (HNW), EB2DTM (HNV), EB2DTS (HNW), EB2FA (HMR), EB2FAD (HMH), EB2FAD (HMM), EB2DT (HNZ), EB2F (HMX), EB2F (HMT), EB2F (HMZ), EB2DTS (HNY), EB2M (HMY)

1.2 PureTech VTi: EB2ADS (HNS), EB2D (HMT), EB2ADJ (HNP), EB2ADT (HNK), EB2ADTX (HNN), EB2DTS (HNW), EB2DTM (HNV), EB2DTS (HNW), EB2FA (HMR), EB2FAD (HMH), EB2FAD (HMM), EB2DT (HNZ), EB2F (HMX), EB2F (HMT), EB2F (HMZ), EB2DTS (HNY), EB2M (HMY)



C Petrol Engine Timing Belt Checking Gauge PSA 1.0, 1.2 Model No. VSE5094

Suitable for PSA Group belt in oil engines. Fast and Accurate way to check for belt degradation.



A



CHAIN

CITROEN
PEUGEOT
BMW
MINI

A Balance Shaft Alignment Tool Kit - BMW, BMW Mini, Citroen, Peugeot Chain Drive

Model No. **VSE6156**

Essential tools for the removal/installation of the timing chain assembly on a range of BMW, Mini and PSA petrol engines. Kit includes balance shaft aligners, crankshaft gear holding tools and chain tensioner locking pin. Timing Tool Kits covering engine timing are available separately for each engine.

OEM Tools: 11.3.340, 11.4.360, 11.5.140, 11.9.280, 11.9.330

Applications:

BMW 1 Series: 116i E81/82/87/88 (04-09), 118i E81/82/87/88 (04-14),

120i E81/82/87/88 (04-14), 125i E82 (07-12), 130i E81/87 (05-12), 135iS E82 (07-12)

BMW 3 Series: 316i/ti Compact E46 (01-07), 316i E90/91/92/93 (05-14), 318i/ti Compact E46 (01-07), 318i E90/91/92/93 (05-12), 320i E90/91/92/93 (05-12), 323i E90/91/92/93 (04-11), 325i E90/91/92/93 (04-12), 330i E90/91/92/93 (04-14), 335i E90/91/92/93 (04-14)

BMW 5 Series: 520i E60/61 (07-10), 523i E60/61 (04-10), 525i E60/61 (04-10),

530i E60/61 (05-10)

BMW 6 Series: 630i E63/64 (04-11)

BMW 7 Series: 730i E65/66 (04-12)

BMW X Series: X1 sDrive 18i E84 (10-12),

X1 xDrive 18i E84 (10-12), X3 2.0 E83 (05-10), X3 2.5/3.0 E83 (06-10), X5 3.0 E70 (06-10)

BMW Z Series: Z4 2.0 E85/86 (04-09), Z4 2.5/3.0 E85/86 (05-09)

BMW Mini: Clubman (R55) (08-14), Cooper S R55/56 (06-10), Cooper R55/56 (06-10), Mini One R56 (07-10) Mini (R56/57) (08-15), Cooper R58 (11-15)

Citroen: Berlingo (09-16), C3 Picasso (09-15), C3 III (10-15), C4 Picasso/Grand Picasso (08-13), (08-11), C4 (08-11), C4 II (11-15), C5 III (09-14), DS3 (04-15), DS4 (11-15), DS5 (12-15)

Peugeot: 207 (06-13), 207CC (07-15), 208 (13-15), 2008 (13-15), 308 (07-15), 308CC (09-15), 3008 (09-15), 508 (11-15), 5008 (09-15), Partner III (09-16), RCZ (10-16)

Engine Codes:

BMW: N40; B16A, N42; B18A, B20A,

N45T; B16AC, N46; B18, B20, B20B, N46T; B20, B20B, B20BD, B20BZ, B20O2, N52; B25A,

B25AE, B30, B30A, B30A/OO, B30AF, B30F, B30U1, N52K; B25A, B25AE, B25AF, B25AF/O1,

B25BE, B25U1, B30A, B30AE, B30AF, N53; B25A, B30A, N54; B30A, B30A/AA, B30T0

BMW Mini: N12; B14, B14AB, B16A, N14; B16A, B16CD, B16CD/T0

PSA: EP3 (8FP), EP3 (8FS), EP3C (8FN), EP3C (8FP), EP3C (8FR), EP6 (5FP), EP6 (5FW), EP6C (5FH), EP6C (5FK), EP6C (5FS), EP6C (5FW), EP6CDT (5FE), EP6CDT (5FM), EP6CDT (5FN), EP6CDT (5FV), EP6CDTE (5FR), EP6CDTM (5FE), EP6CDTM (5FM), EP6CDTX (5FU), EP6DT (5FT), EP6DT (5FX), EP6DTE (5FR), EP6DTE (5FX), EP6DTS (5FD), EP6DTS (5FF), EP6DTS (5FY)

Associated Tools: VSE5911A - Timing Tool Kit - BMW N42/N46/N46T

1.8, 2.0 - Chain Drive (see page 393), VSE5981 - Timing Tool Kit - BMW 1.6 N40/N45/N45T

- Chain Drive (see page 392), VSE6111 - Timing Tool Kit - BMW 2.5, 3.0 N51/N52/N52K/

N53/N54 - Chain Drive (see page 394), VSE6131 - Timing Tool Kit - BMW Mini, Citroen,

Peugeot - Chain Drive (see page 390)

B



BELT

FORD
JAGUAR
LAND ROVER
VOLVO

B Timing Tool Kit - Ford, Jaguar, Land Rover, Volvo 2.0D, 2.2D/TDCi/TD4 - Belt Drive

Model No. **VSE6126**

Contains flywheel locking tools and camshaft pin for engine timing and timing belt replacement on Land Rover 2.2D TD4, Volvo 2.0D and Ford 2.0/2.2D TDCi models.

OEM Tools: 303-1270, 303-1272, 303-1277, 303-393-01, 303-735, 303-1059, 303-393/303-393A, 999-7119, 999-7120, 999-7121, 999-7122

Applications:

Ford: C-Max (07-18), Grand C-Max (10-20), Focus (04-18), Focus C-Max (03-17), Galaxy (06-18), Kuga (08-17), Mondeo (07-18), S-Max (06-18)

Jaguar: XF (11-15)

Land Rover: Freelander 2 TD4 (06-15), Range Rover Evoque (11-15)

Volvo: C30 (06-10), C70 (06-10), S40 (03-10), S80 (07-10), V50 (04-10), V70 (07-10)

Engine Codes:

2.0D TDCi: D4204T, D4204T2, AZBA, AZBC, AZWA, G6DA, G6DB, G6DC, G6DD, G6DE, G6DF, G6DG, IXDA, KLBA, KLWA, LPBA, QXBA, QXBB, QXWA, QXWB, T7CE, T7CJ, T7CK, T7CL, T7DA, T7DB, T7MA, T7MB, T8CH, T8CD, T8CJ, T8CL, T8DA, TXBA, TXDA, TXDB, TXWA, TYBA, TYDA, TYWA, UFBA, UFDA, UFDB, UFWA, UKBA, UKDA, UKDB, UKWA

2.2D TD4/TDCi: DW12CTED4, DW12BTED/224DT, KNBA, Q4BA

2.2D (Jaguar): AJi4D/224DT

C



CHAIN

FORD
CITROEN
FIAT
JAGUAR
LAND ROVER
LDV
PEUGEOT

C Timing Tool Kit - Fiat, Ford, JLR, LDV, PSA 2.0D, 2.2D, 2.4D, 3.2D - Chain Drive

Model No. **VSE5842**

Provides timing retention for Ford 2.0, 2.2, 2.4 and 3.2 Duratorq 'Puma' chain diesel engines. Kit comprises Flywheel Locking Pins (common rail and non-common rail), Camshaft and Injection Pump Locking Pins, Tensioner Locking Pin.

OEM Tools:

Ford: 303-698 (21-251), 303-675 (21-234)

Citroen/Peugeot: 0198.B2, 0198.A, 0198.J

Fiat: 2.000.016.500, 2.000.017.100

Jaguar: 303-698

Land Rover: 303-698

LDV: LDV167, LDV173

Applications:

Ford: Mondeo (00-07), Ranger (11-17), Transit (00-14)

Citroen: Relay/Jumper III (06-12)

Fiat: Ducato (06-14)

Jaguar: X-Type (03-10)

Land Rover: Defender TD4 (06-11)

LDV: Convoy (02-06)

Peugeot: Boxer III (06-14)

Engine Codes:

2.0D: ABFA, D3FA, D5BA, D6BA, F3FA, FIFA, FMBA, FMBB, HJBA, HJBB, HJBC, HJBE, N7BA, N7BB, SDBA

2.2D HDi/TDi: 4HV, CVRB, CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P22DTE(4HG), P22DTE(4HH), P22DTE(4HM), P22DTE(4HU), P22DTE(4HV), P8FA, P8FB, PGFA, PGFB, QJBA, QJBA(BG), QJBB, QJBC, QJBD, QVFA, QWFA, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, USRA

2.4D Di/TDCi: 244DT, D2FA, D2FB, D4FA, DOFA, F4FA, FXFA, H9FA, H9FB, H9FD, JXFA, JXFC, PHFA, PHFC, ZSD 424

3.2D TDCi: SAFA, SAFB

Associated Tool: VSE5944 - Auxiliary Belt Tension Tool (see page 407)



Use our online Timing Tool Kit Finder to search for kits, www.sealey.co.uk



A Timing Tool/Timing Chain/Pump Remove-Install Kit - Ford 1.8D Belt/Chain Drive
Model No. VSE5843

Essential tools for timing belt replacement on 1.8D TDi/TDCi chain drive diesel engines fitted to Ford vehicles, also suitable for high pressure fuel pump "Wet Belt" applications. Features injection/high pressure pump sprocket holder and timing chain cover alignment tools. Supplied in storage case.

OEM Tools:

Ford: 303-193 (21-104), 303-393 (21-168), 303-376 (21-162B), 303-652 (21-230), 310-095 (23-067)

Applications:

Ford: C-Max (07-10), Courier (00-02), Fiesta (00-02), Focus (98-11), Focus C-Max (03-07), Galaxy (06-10), Mondeo (07-10), S-Max (06-14), Tourneo Connect (02-13), Transit Connect (02-13)

Engine Codes:

1.8D TDCi: BHPA, F9DA, F9DB, FFBA, FFDA, FFWA, HCPA, HCPB, KHBA, KKDA, KKDB, P7PA, P9PA, P9PB, QYBA, R2PA, R3PA, RWPA, RWPC

1.8D TDCi EConetic: KHBA

1.8D TDi: BHDA, BHDB, BHPA, C9DA, C9DB, C9DC

1.8D Turbo: C9DC, RTN, RTP, RTQ

Associated Tool: VSE50422 - Camshaft Sprocket Puller - Ford/Citroen/Peugeot/Mazda Diesel Engines (see page 406)



C Timing Tool Kit Ford/Jaguar/Land Rover 2.2D/3.2D TDCi - Chain Drive
Model No. VSE5863

Suitable for Ford 2.2TDCi Duratorq chain drive diesel engines. Includes useful crankshaft holding wrench, and a slimline camshaft locking pin to allow the exhaust camshaft sprocket to be removed with the pin in situ.

OEM Tools:

Ford/Jaguar: 303-1310, 303-698, 303-732

Applications:

Ford: Transit (06-18), Ranger (11-18)

Jaguar: X-Type (05-10)

Land Rover: Defender (11-16)

Engine Codes:

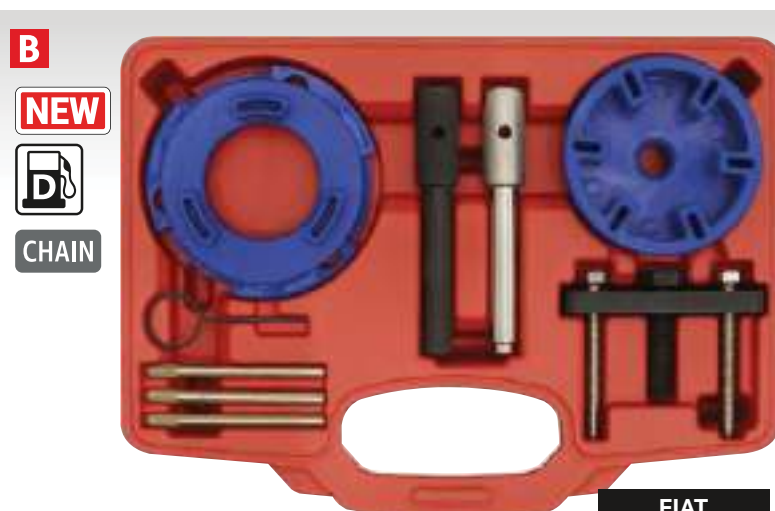
2.2: QJBA, BG, ID4

2.2 TDCi: CVFF, CVR5, CYFF, CYF5, CYR5, DRF5, DRFF, DRR5, GBVAJPF, GBVAJQJ, PGFA, PGFB, P8FA, P8FB, QVFA, QWFA, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, UHR5

2.2D TDCi EConetic: DRFC, DRFG, CYFC, CYFG

2.2D TDCi HDT: UYR6, USR6

3.2D TDCi: SAFA



B Timing Tool & Fuel Injection Pump Kit Chain Drive
Model No. VSE6940

Comprehensive timing tool kit for 2.0D, 2.2D and 2.4D Duratorq chain driven diesel engines fitted in Citroen, Fiat, Ford, Jaguar, Land Rover, LDV and Peugeot vehicles. Kit includes sprocket retaining plates for both early and later engines and access cover removal plates for injection pump removal/installation. Supplied in storage case with a warning tag.

OEM Tools:

Ford: 303-698, 303-675, 303-679A, 303-1151

PSA: 189-B2, 0189-A, 0188-P, 0189-J

Fiat: 2.000.016.500, 2.000.018.000

Jaguar: 303-698, 303-675, 303-679A, 303-1151

Land Rover: 303-698, 303-675, 303-679A, 303-1151

LDV: LDV167, LDV173

Applications:

Citroen: Relay/Jumper III (06-13)

Fiat: Ducato (06-11)

Ford: Mondeo (00-07), Transit (00-14)

Jaguar: X-Type (03-10)

Land Rover: Defender TD4 (06-11)

LDV: Convoy (02-06)

Peugeot: Boxer III (06-12)

Engine Codes:

2.0D Di/TDdi/TDCi: ABFA, D3FA, F3FA, D5BA, D6BA, FIFA, FMBA, FMBB, HJBA, HJBB, HJBC, HJBE, N7BA, N7BB)

2.2D TDCi/EConetic: BG, CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P8FA, P8FB, PGFA, PGFB, QJBA, QJBA (BG), QJBB, QJBC, QJBD, QVFA, QWFA, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA

2.2D HDi/JTD: P22DTE (4HM), P22DTE (4HU), P22DTE (4HV)

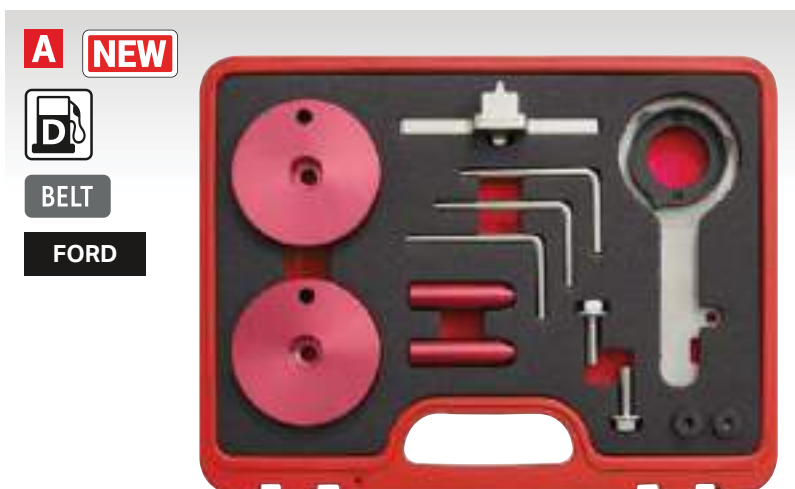
2.4D Di/TDCi: DOFA, D2FA, D2FB, D4FA, F4FA, FXFA, H9FA, H9FB, H9FD, JXFA, JXFC, PHFA, PHFC

2.4D TD/TDi: ZSD 424



D Auxiliary Belt Tensioner Wrench - PSA, Ford
Model No. VSE6299

Designed to provide a safe and controlled method of adjusting the belt tensioner when removing/refitting the auxiliary belt. Suitable for Ford and PSA 1.4D and 1.6D diesel engines.



A Timing Tool Kit - Ford 2.0TDCi EcoBlue - Belt Drive

Model No. VSE5640

Designed to fit the new generation of Ford EcoBlue belt in oil diesel engines. Contains the special tooling essential for locking the engine in its timing position. Includes tools for fitting the timing belt onto the camshafts. Supplied in a storage case with warning tag and full instructions.

OEM Tools:	303-1643, 303-1637, 303-165
Applications:	
Ford:	Transit (16-18), Transit Custom (16-19), Tourneo Custom (16-18)
Engine Codes:	
2.0TDCi:	YLF5, YMFS, YNFS, YLF6, YMF6, YNF6, YLR6, YMR6, YNR6



C High Pressure Fuel Pump Remover/Installer - Ford 2.0D EcoBlue Belt Drive

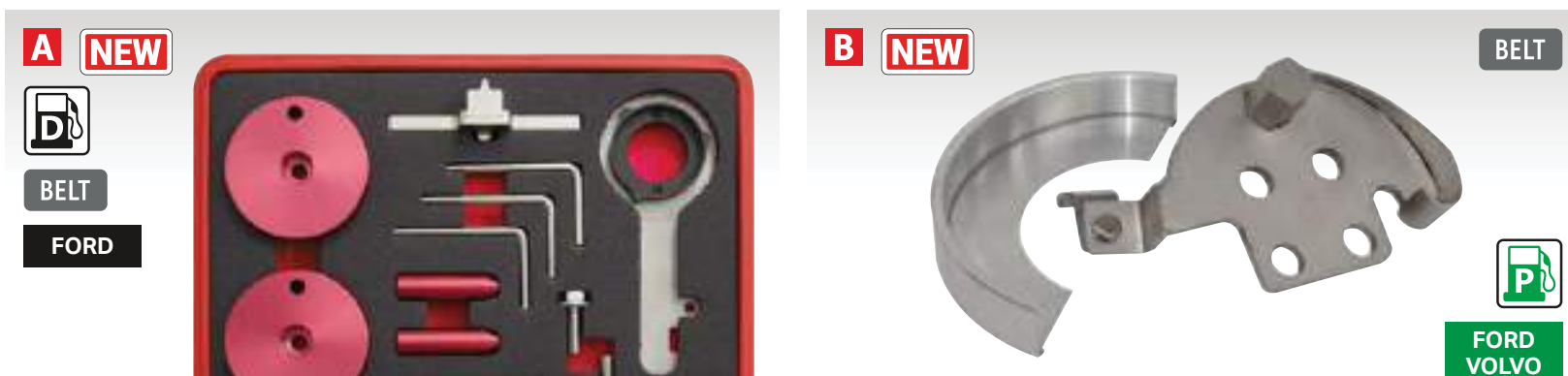
Model No. VSE6541

Essential tool for removing/installing the high pressure fuel pump which allows the drive gear to retain its timed position when the pump is removed. Supplied in a storage case with full instructions.

Applications:	
Ford:	Transit (17-18), Tourneo Custom (16-18), Transit Custom (16-18)
Engine Codes:	
2.0D EcoBlue:	YFMS, YNFS, YLF6, YMF6, TNF6, YLR6, YMR6, YNR6



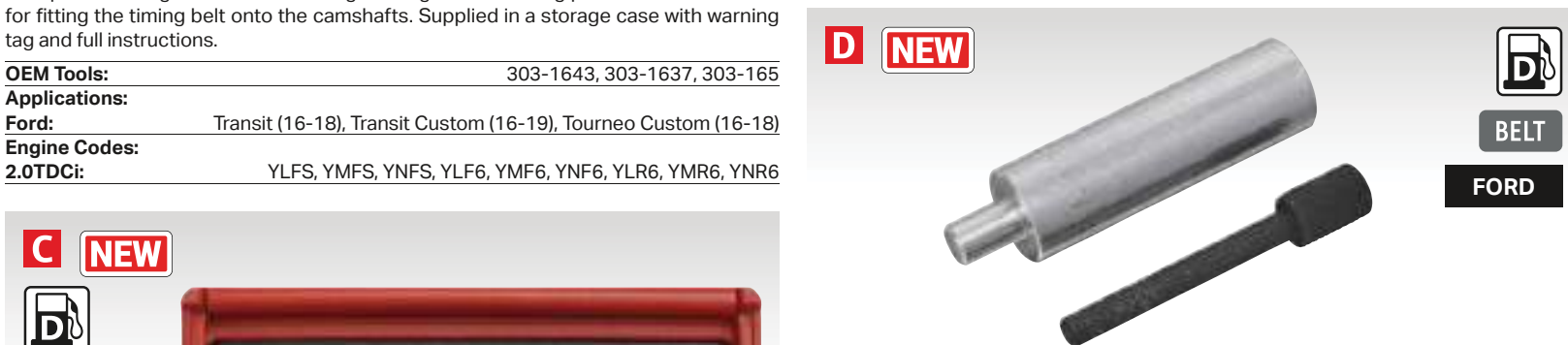
Use our online Timing Tool Kit Finder to search for kits, www.sealey.co.uk



B Stretch Belt Installation Tool - Ford/Volvo - Belt Drive

Model No. VS790

Stretch belt fitting kit for Ford and Volvo. Time-saving tool designed for use where universal tools will not work due to the wider crankshaft pulley which restricts access. One part of the kit clips over the crankshaft pulley to guide the belt, the other part fits over the water pump pulley and with a 17mm socket it's simply rotated until the belt is in located correctly on all the pulleys. Suitable for Ford 1.4, 1.6 (Focus, C-Max, Mondeo) and Volvo 1.6 (S40, C30, V50) petrol engines.

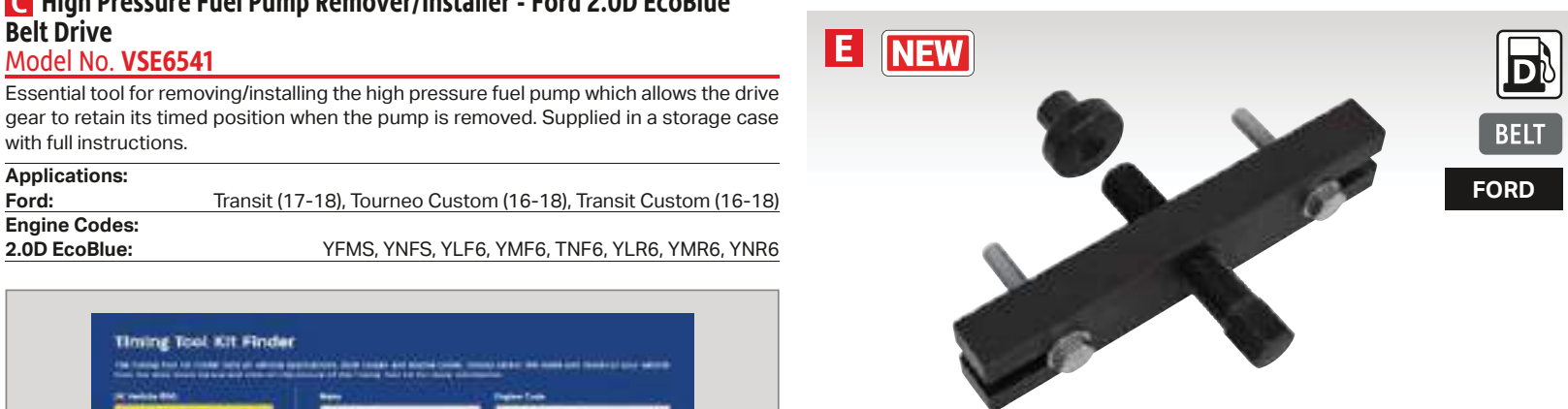


D Camshaft Pulley Alignment Pins - Ford 2.0D - Belt Drive

Model No. VSE6712

Camshaft Alignment Pins suitable for Ford vehicles fitted with the DW10F 2.0D engines. Ensures the camshaft is locked in position while removing and refitting the high pressure fuel pump.

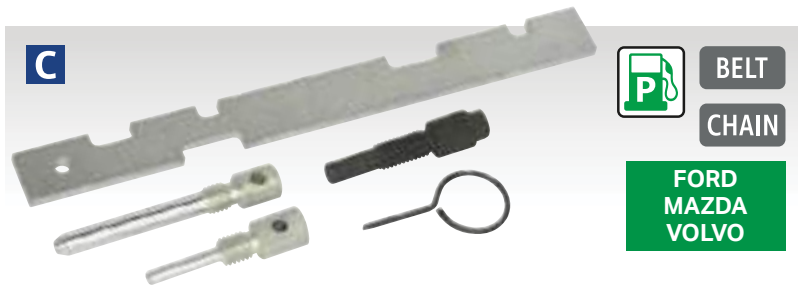
OEM Tools:	303-1667/1, 301-1667/2
Applications:	
Ford:	C-Max (15-18), Grand C-Max (15-18), Edge (15-18), Focus (14-18), Galaxy (15-18), Kuga (14-18), Mondeo (14-18), S-Max (15-18)



E Vibration Damper/Pulley Puller - Ford 2.0 TDCi EcoBlue Engine Belt Drive

Model No. VSE6542

Suitable for Ford Transit fitted with EcoBlue 2.0 TDCi engine. Equivalent to OEM 205-295 and 204-158-01 (crankshaft end protection spigot).



C Timing Tool Kit - Ford, Mazda, Volvo 1.25 to 2.3 16v Duratec Belt/Chain Drive

Model No. VSE5515

Covers the complete range of Ford Duratec engines 1.25 through to 2.3 16v in both belt and chain drive variants.

OEM Tools:

Ford: 303-1054, 303-507 (21-210), 303-620 (21-163), 303-574, 303-748, 303-376 (21-162B), 303-376B
Mazda: 49 JE01 061, 303-574, 49 JE02 061, 303-465, 49 JE01 054
Volvo: 999 7152, 999 7151

Applications:
Ford: B-Max (15-17), C-Max (07-10), Cougar (98-01), Fiesta (95-17), Focus (98-11), Focus C-Max (03-07), Fusion (02-12), Galaxy (06-15), Maverick (01-07), Mondeo (93-15), Puma (97-02), S-Max (06-15), Tourneo Connect (02-06), Transit (06-12), Transit Connect (02-06)
Mazda: 121 ZQ (95-00), 2 DY (02-07), 3 BK (03-09), 3 BL (09-15), 5 CR (05-10), 5 CW (10-12), 6 GG/GY (02-07), 6 GH (07-15), MPV LW (02-05), MX-5 NC (05-16), Tribute EP (04-06)
Volvo: C30 (06-13), S40 (06-12), S80 (07-11), V50 (04-12)

Engine Codes:
1.25 16v Belt: DHA, DHB, DHC, DHD, DHE, DHF, DHG, F8JA, F8JB, FUJA, FUJB, M7JA, M7JB, SNJA, SNJB, SNJC, SNJD, STJA, STJB, STJC, STJD
1.4 16v Belt: ASDA, ASDB, FHA, FHB, FHD, FHE, FHF, FXDA, FXDB, FXDC, FXDD, FXJA, FXJB, FXJC, RTJA, RTJB, SPJA, SPJC, SPJE, UTJA
1.6 16v Belt: B4164S3, FYDA, FYDB, FYDC, FYDD, FYDH, FYJA, FYJB, FYJC, HWDA, HWDB, IQJA, IQJC, L1F, L1J, L1L, L1N, L1Q, L1T, L1V, L1W, SHDA, SHDB, SHDC
1.8 16v Belt: EYDB, EYDC, EYDD, EYDE, EYDF, EYDG, EYDI, EYDJ, EYDL, EYPA, EYPC, RKA, RKB, RKF, RKH, RKJ, RKK
1.8 16v Chain: CDBB, CGBA, CGBB, CHBA, CHBB, CSDA, CSDB, Q7DA, QQDA, QQDB, QQDC, L8, B4184S11, B4184S, B4184S8
2.0 16v Belt: ALDA, EDBA, EDBB, EDBC, EDBD, EDDB, EDDC, EDDF, HMDA, NGA, NGB, NGC, NGD, YF
2.0 16v Chain: B4204S3, B4204S4, Aoba, AOBC, AODA, AODB, AODE, AOWA, AOWB, CJBA, CJBB, LF, N4JB, SYDA, TBBA, TBBD, TBWA, TBWB
2.3 16v Chain: GZ, GZFA, GZFB, GZFC, L3, SEBA, SEWA

Associated Tool: VSE5847 - Crank Pulley Holding Tool - Ford 1.8, 2.0, 2.3 16v Duratec - Chain Drive (see page 439)



3-Legged puller specifically designed to remove the camshaft sprocket on Ford, Citroen, Peugeot and Mazda diesel engines without causing damage to the pulley.

Applications:

Citroen: C3 III (10-15), DS3 (10-15), Xsara II (00-15), Xsara Picasso (99-10), C4 (04-11), C4 II (11-15), C4 Picasso/Grand Picasso (10-15), C4 Aircross (12-15), C5 (00-05), C5 II (04-08), C5 III (10-15), DS4 (11-15), Xantia (98-01), Synergie/Evasion (99-03), C8 (02-15), Nemo (08-10), Berlingo I/II (99-11), Berlingo III (08-15), Dispatch/Jumpy (99-07), Dispatch/Jumpy II (07-15), Relay/Jumper (01-02)
Ford: C-Max (10-15), Courier (00-02), Fiesta (08-11), Fusion (02-11), Focus (11-15), Galaxy (07-15), Kuga (10-15), Mondeo (06-15), S-Max (06-15), Tourneo Connect (02-06), Transit Connect (02-06)
Mazda: 2 (DE/DH) (02-10)
Peugeot: 107 (05-10), 1007 (05-10), 206 (01-09), 206CC (05-07), 208 (12-14), 306 (99-02), 307 (01-06), 307CC (05-09), 308 (11-14), 308CC (09-14), 407 (08-11), 407 Coupe (07-12), 508 (11-14), RCZ (10-14), 2008 (13-14), 3008 (10-14), 4008 (12-14), 5008 (10-14), Bipper (08-10), Partner/Partner Origin/Ranch I/II (05-11), Partner III (08-14)

Engine Codes:

1.4D TDCi/HDi: F6JA, F6JB, F6JC, F6JD, 8HP (DV4C), 8HR (DV4C), 8HS (DV4TED), 8HZ (DV4TD), 8HX (DV4TD), DV4C (8HP), DV4C (8HR), DV4TD (8HT), DV4TD (8HX), DV4TD (8HZ), DV4TED (9HS)
1.6D TDCi/ HDi: G8DA, G8DB, G8DC, G8DE, G8DF, HHDB, HHDA, HHJA, HHJB, HHJC, HHJE, HHJF, 9HE (DV6TED), 9HG (DV6C), 9HH (DV6DU), 9HJ (DV6TED), 9HK (DV6TED), 9HLG (DV6CM), 9HM (DV6UC), 9HN (DV6TED), 9HL (DV6C), 9HR (DV6C), 9HS (DV6TED4BU), 9HT (DV6BTED4), 9HT (DV6BUTED4), 9HU (DV6UTED4), 9HV (DV6TED4B), 9HW (DV6TED4), 9HX (DV6ATED4), 9HX (DV6TED4), 9HY (DV6TED4), 9HZ (DV6TED4), DV6UC (9HM), DV6C (9HI), DV6C (9HR), DV6D (9HP), DV6UC (9HM), DV6CM (9HG), DV6DTE (9HE), DV6DTE (9HF), DV6DTE (9HJ), DV6DTE (9HK), DV6DTE (9HN), DV6DTE (9HP), DV6TED4 (9HU), DV6TED4 (9HV), DV6TED4 (9HX), DV6ATED4 (9HW), DV6ATED4 (9HX), DV6TED4 (9HY), DV6ATED4 (9HZ), DV6DTE (9HJ)
1.6D TDCi ECOnetic: HHJD
1.8D Turbo/TDCi: RTN, RTP, RTQ, BHDA, BHDB, BHPA, C9DA, C9DB, C9DC
1.8D TDCi ECOnetic: KHBA
2.0D TDCi: AZBA, AZBC, AZWA, AZWC, G6DA, G6DB, G6DC, G6DD, G6DE, G6DF, G6DG, KLBA, LPBA, TXBA, TXDA, TXDB, TXWA, TYBA, TYDA, TYWA, UFBA, UFDB, UFWA, UKBA, UKBB, UKWA, UKDB, QXBA, QXBB
2.0D TDCi ECOnetic: KLBA, LPBA, TYBA
2.0D HDi: AHY (DW10CE), AHZ (DW10CTED4), RHD (DW10C), RHD (DW10CTED4), RHE (DW10CTED4), RHF (DW10BTED4), RHG (DW10UTED4), RHH (DW10BTED4), RHH (DW10CTED4), RHH (DW10C), RHK (DW10CTED4), RHK (DW10UTED4), RHM (DW10CTED4), RHR (DW10BTED4), RHT (DW10ATED4/L4), RHV (DW10UTD), RHS (DW10ATED), RHW (DW10ATED4), RHX (DW10BTED/L3), RHY (DW10TD), RHZ (DW10ATED), RHZ (DW10ATED/L3), DW10TD (RHY), DW10CD (AHZ), DW10CE (AHY), DW10UTD (RHV), DW10CTED4 (RHD), DW10CTED4 (RHE), DW10BTED4 (RHF), DW10BTED4 (RHG), DW10BTED4 (RHR), DW10CTED4 (RHH), DW10CTED4 (RHR), DW10UTED4 (RHG), DW10UTED4 (RHK)

Associated Tool: VSE5843 - Timing Tool Kit & Timing Chain/Pump Removal & Installation Kit - Ford - Diesel 1.8 (see page 403)

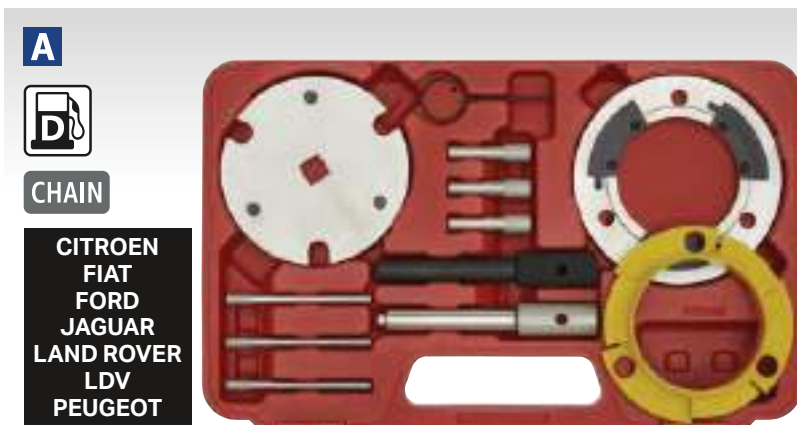


Crankshaft pulley alignment tool for Ford 1.6 EcoBoost engine. Ensures the crankshaft pulley is correctly aligned with the timing belt cover.

OEM Tool: 303-1550

Applications:
Ford: Focus (10-15), C-Max (10-15), Grand C-Max (10-15), Galaxy (10-15), Kuga (13-15), Mondeo (10-15), S-Max (10-15)

Engine Codes:
1.6 EcoBoost: JQDA, JQDB, JTDA, JTDB, JTBA, JTBB, JTWA, JTWB, JQMA, JQMB, JTMA



A Timing Tool & Fuel Injection Pump Kit - 2.0D, 2.2D & 2.4D Duratorq Chain Drive

Model No. **VSE5841A**

Comprehensive kit for timing 2.0D, 2.2D & 2.4D Duratorq chain driven diesel engines fitted in Citroen, Fiat, Ford, Jaguar, Land Rover, LDV & Peugeot vehicles. Kit includes sprocket retaining plates for both early and later engines and access cover removal plate tools for injection pump removal/installation. Supplied in storage case.

OEM Tools:	303-679A/21-238, 303-1151, 303-698/21-251, 303-675/21-234
Applications:	Citroen: Relay/Jumper III (06-13)
Fiat:	Ducato (06-11)
Jaguar:	X-Type (03-10)
LDV:	Convoy (02-06)
Engine Codes:	Ford: Mondeo (00-07), Transit (00-14)
	Land Rover: Defender TD4 (06-11)
	Peugeot: Boxer III (06-12)
2.0D Di/TDdi/TDCi:	ABFA, D3FA, F3FA, D5BA, D6BA, FIFA, FMBA, FMBB, HJBA, HJBB, HJBC, HJBE, N7BA, N7BB
2.2D TDCi/ECOnetic:	BG, CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P8FA, P8FB, PGFA, PGFB, QJBA, QJBA (BG), QJBB, QJBC, QJBD, QVFA, QWFA, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA
2.2D HDi/JTD:	P22DTE (4HM), P22DTE (4HU), P22DTE (4HV)
2.4D Di/TDCi:	DOFA, D2FA, D2FB, D4FA, F4FA, FXFA, H9FA, H9FB, H9FD, JXFA, JXFC, PHFA, PHFC
2.4D TD/TDi:	ZSD 424
2.4D TD4:	244DT



C Crankshaft Front Oil Seal Fitting Tool - Ford 2.0, 2.2, 2.4, 3.2 TDCi Duratorq - Chain Drive

Model No. **VSE5862**

Essential tools required when replacing the crankshaft oil seal or timing cover. The mandrel tool is essential for centralising the timing cover during replacement to avoid premature seal failure.

Applications:	Ford: Transit (00-18), Mondeo (00-07), Ranger (11-19)
Jaguar:	X-Type (05-10)
Land Rover:	Defender (11-16)
Engine Codes:	
2.0D:	FIFA
2.2D:	BG, QJBA
2.2 TDCi:	CVFF, CVF5, CV55, CVR5, CYFA, CYFB, CYFF, CYFG, CYF5, CYR5, DRFA, DRFB, DRFF, DR5F, DRR5, PGFA, PGFB, P8FA, P8FB, QVFA, QWFA, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, UHR5
2.2 TDCi EcoNetic:	DRFC, DRFG, CYFC
2.2HDT:	USR6, UYR6
2.4Di:	D2FA, D2FB, DOFA, F4FA, FXFA
2.4 TDCi:	H9FA
3.2 TDCi:	SAFA
Associated Tools:	VSE5863 - Timing Tool Kit - Ford/Jaguar 2.2D/3.2D TDCi - Chain Drive (see page 403), VSE5944 - Auxiliary Belt Tension Tool - Ford 2.0D, 2.2D Di/TDdi/TDCi & 2.4D TDdi - Chain Drive (see D)



B Timing Tool Kit - Ford, Volvo 1.6, 1.8, 2.0, 2.3, 2.4, 2.5, 2.9 - Belt Drive

Model No. **VS4387**

Includes tools for timing the engine and locking the camshafts into position if variable valve timing units have to be removed. Camshaft tools can be used as a counter-hold during removal/installation of variable valve timing units. Fits a wide variety of engines used in Ford and Volvo vehicles. Supplied in a storage case with warning tag and instructions.

OEM Tools:	
Ford:	303-1178, 303-1182, 303-1054
Volvo:	999-5451, 999-5452
Applications:	
Ford:	Focus (05-11), Galaxy (06-11), Mondeo (07-10), Kuga (09-13), S-Max (06-10)
Volvo:	C30 (06-13), C70 (97-13), S40 (96-12), S60 (00-16), S80 (98-16), V40 (96-15), V50 (04-12), V60 (13-14), V70 (00-15), XC60 (14-17), XC70 (02-07), XC90 (02-14)
Engine Codes:	
1.6:	B4164S2
1.8:	B4184S10, B4184S2, B4184S3, B4184S9
2.0:	B4204S2, B4204T3, B4204T5, B5204T4, B5204T5, B5204T8, B5204T9
2.3:	B5234T3, B5234T7, B5234T9
2.4:	B5244S, B5244S2, B5244SG, B5244SG2, B5244T, B5244T3, B5244T4, B5244T5, B5244T7
2.5:	HUBA, HUWA, HYDA, HYDB, HYDC, JZDA, B5254T10, B5254T11, B5254T12, B5254T14, B5254T2, B5254T3, B5254T4, B5254T5, B5254T6, B5254T7, B5254T8, B5254T9
2.9:	B6284T2, B6294S2, B6294T



D Auxiliary Belt Tension Tool - Ford, Jaguar 2.0D, 2.2D Di/TDdi/TDCi & 2.4D TDdi - Chain Drive

Model No. **VSE5944**

Specifically designed to aid the task of reaching the auxiliary belt tension unit in order to remove and re-fit auxiliary belts on the Di/TDdi/TDCi engines. In many cases tension unit cannot be accessed and adjusted with general tools.

OEM Tool:	606-676
Applications:	
Ford:	Mondeo 2.0D, 2.2D TDdi/TDCi (00-07), Transit 2.4D (00-06)
Jaguar:	X-Type (03-10)
Engine Codes:	
2.0D TDCi:	FMBA, FMBB, HJBA, HJBB, HJBC, HJBE, N7BA, N7BB, SDBA
2.0D TDdi:	D5BA, D6BA
2.2D TDCi:	QJBA, QJBB, QJBC, QJBD
2.4D Di:	D2FA, D2FB, D4FA, DOFA, F4FA, FXFA
Associated Tools:	VSE5842 - Timing Tool Kit - Citroen/Fiat/Ford/Jaguar/Land Rover/LDV/Peugeot 2.0, 2.2, 2.4, 3.2 TDCi/TDdi/Di/HDi/JTD/TDi/TD4 - Chain Drive (see page 402), VSE5841A - Timing Tool & Injection Pump Tool Kit 2.0D, 2.2D, 2.4D Duratorq - Chain Drive (see A)



A Timing Tool Kit - Ford, Volvo, Mazda 1.5, 1.6, 2.0 - Belt/Chain Drive Model No. VSE6160

Comprehensive kit covers engines which are fitted to a large range of Ford, Volvo and some Mazda vehicles. Contains time-saving tooling to correctly align the timing covers on Ford and Volvo engines, and a crankshaft pulley holder for Mazda engines.

OEM Tools:

Ford: 303-1504, 303-1565, 303-1521, 303-748, 303-1097, 303-1550

Volvo: 999-7405, 999-7416, 999-7406, 303-1054, 999-7429, 999-7431, 999-7415

Mazda: 303-1061, 303-507, 205-072

Applications:

Ford: B-Max (13-18), C-Max (12-18), Connect (13-16), Courier (12-16), EcoSport (13-15), Fiesta (13-17), Focus (12-18), Galaxy (10-17), Grand C-Max (12-18), Grand Tourneo Connect (13-17), S-Max (10-15), Tourneo Connect (13-15), Mondeo (14-20)

Volvo: S60 (11-16), S80 (09-15), V40 (09-15), V40 Cross Country (10-14), V60 (10-16), V70 (09-16), XC60 (09-14)

Mazda: Mazda 5 (CW) (10-15), Mazda 6 (GH) (10-13)

Engine Codes:

Ford 1.5 EcoBoost: UNCA, UNCB, UNCC, UNCD, UNCE, UNCF, UNCI, UNCJ, UNCK, UNCM, UNCN
Ford 1.6: HXDA, HXDB, HXJA, HXJB, IQDA, IQDB, IQDC, IQJA, IQJC, JQDA, JQDB, JQGA, IQJE, JQMA, JQMB, JTDA, JTDB, JTJA, JTJB, JTMA, JTWA, JTWB, MUDA, MUDD, PNDA, PNDD, RVJA, SIDA, U5JA, XTDA, XTDB

Ford 2.0: MGD, R9CB, R9CD, R9CF, R9CH, R9CI, R9DA, TNBA, TNBB, TNCC, TNCD, TNCF, TNWA, TNWB, TPBA, TPWA, ZQDA

Mazda 2.0: MZR 2.0 (LF), LF(MZRDISI)

Volvo 1.6: B4164T, B4164T2, B4164T3

Volvo 2.0: B4204T6, B4204T7



D 1/2"-3/4"Sq Drive Torque Multiplier - Ford EcoBoost Engine Model No. VSE5180

The torque multiplier has a 1/2"Sq drive input and 3/4"Sq drive output. A torque multiplier is needed to remove and refit the crankshaft pulley bolt. Specially designed with the correct reduction ratio for the Ford EcoBoost engine. Contains securing bracket and fixings. Supplied in storage case with instructions.

Drive: 1/2"Sq Input (Female), 3/4"Sq Output (Male)

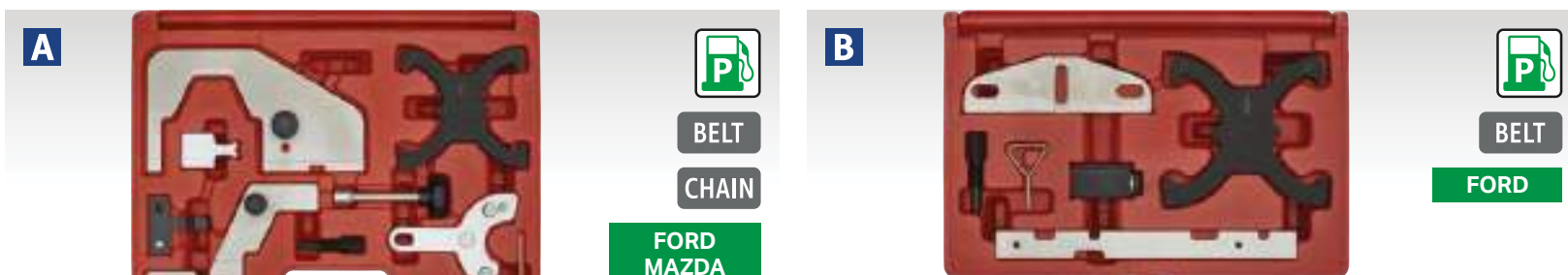
Applications:

Ford: B-Max (12-18), C-Max (12-20), Grand C-Max (17-20), EcoSport (13-20), Fiesta (12-20), Focus (12-20), Mondeo (15-18), Puma (19-20), Transit Courier (14-20), Transit Connect (13-20), Grand Tourneo Connect (13-18), Tourneo Courier (14-20), Tourneo Connect (18-20)

Engine Codes:

1.0 EcoBoost: B3DA, B3GA, B7DA, B7JA, B7JB, M0JA, M1CA, M1CB, M1DA, M1DC, M1DD, M1JA, M1JC, M1JE, M1JH, M1JJ, M1JP, M1JU, M2DA, M2DB, M2DC, M2GA, M2GB, P4JA, P4JB, P4JC, P4JD, SFCA, SFCB, SFCC, SFCD, SFCE, SFCF, SFDA, SFDB, SFDC, SFJA, SFJB, SFJC, SFJD, SFJE, SFJH, SFJJ, SFJK, SFJL, SFJN, SFJP, XMJA, XMJB, XMJC, XMJD, YYJA, YYJB, YYJC, YYJD, YYJE, YYJG

1.1 EcoBoost: XPJA, XPJB, XPJC, XPJD, XYJA, XYJB, XYJC, XYJD, XYJE, YYJA, YYJB, YYJC, YYJD, YYJE, YYJF, YYJG



B Timing Tool Kit - Ford 1.5 EcoBoost & 1.6Ti-VCT - Belt Drive Model No. VSE5041A

Covers timing belt replacement and timing adjustment on Ford 1.6Ti-VCT petrol engines. Includes VCT setting plate, flywheel locking tool, camshaft and tensioner pins. Also includes camshaft setting plate for timing adjustment applications.

OEM Tools: 303-376B, 303-393, 303-393A, 303-393-02, 303-748, 303-1054, 303-1097

Applications:

Ford: C-Max (07-17), Fiesta (08-13), Focus (04-18), Focus C-Max (03-07), Galaxy (15-20), Grand C-Max (10-18), Kuga (2020), Mondeo (07-20), S-Max (15-20)

Engine Codes:

1.5 EcoBoost: UNCA, UNDA, UNCB, UNCC, UNCD, UNCE, UNCF, UNCJ, UNCK, UNCM, UNCN, UNCP

1.6Ti-VCT: HXDA, HXDB, HXJA, HXJB, IQDA, IQDB, KGBA, MUDD, PNBA, PNDA, RHBA, SIDA, XTDA



C Timing Tool Kit Ford 1.0/1.1 EcoBoost - Belt Drive Model No. VS5150

Suitable for Ford 1.0/1.1 EcoBoost. Contains tools vital for setting and locking the engine and for setting the position of the variable cam timing units.

OEM Tools: 303-732, 303-1064, 303-1065, 303-1602, 303-1604, 303-1606

Applications:

Ford: B-Max (12-18), C-Max (12-20), Grand C-Max (17-20), EcoSport (13-20), Fiesta (12-20), Focus (12-20), Mondeo (15-18), Puma (19-20), Transit Courier (14-21), Transit Connect (13-20), Grand Tourneo Connect (13-18), Tourneo Courier (15-21), Tourneo Connect (18-20)

Engine Codes:

1.0 EcoBoost: M1CA, M1CB, M1CB, M1DA, M1DC, M1DD, M1JA, M1JC, M1JE, M1JH, M1JJ, M2DA, M2DB, M2DC, M2GA, M2GB, P4JA, P4JB, P4JC, P4JD, SFCA, SFCB, SFCC, SFCD, SFCE, SFDA, SFDB, SFDC, SFJA, SFJB, SFJC, SFJD, SFJE, SFJH, SFJJ, SFJK, SFJL, SFJN, SFJP, XMJA, XMJB, XMJC, XMJD

1.1 EcoBoost: XPJA, XPJB, XPJC, XPJD, XYJA, XYJB, XYJC, XYJD, XYJE, YYJA, YYJB, YYJC, YYJD, YYJE, YYJF, YYJG



E Crank Pulley Holding Tool Ford 1.8, 2.0, 2.3 16v Duratec Chain Drive Model No. VSE5847

Counter-holds the crankshaft pulley while the pulley retaining bolt is loosened/tightened. Also suitable for some Volvo vehicles.

OEM Tools: 205-072, 999-7128

Applications:

Ford: C-Max (07-10), Fiesta (95-12), Focus (98-11), Focus C-Max (06-15), Galaxy (06-15), Mondeo (93-15), S-Max (06-15), Transit (06-12)

Volvo: C30 (06-13), S40 (06-12), S80 (07-11), V50 (04-12), V70 (07-11)



A Camshaft Locking Tool - Ford, Volvo 1.6 EcoBoost - Belt Drive
Model No. **VSE6562**

Used to set and lock the camshafts into their timing position when the variable valve timing sprockets have to be removed. To be used in conjunction with Model No. VSE6560 Timing Tool Kit (see **B**).

OEM Tool:	
Ford:	303-1552
Applications:	
Ford:	B-Max (12-17), C-Max (03-18), Fiesta (08-17), Focus (04-18), Galaxy (10-15), Grand C-Max (10-18), Grand Tourneo Connect (13-15), Kuga (13-15), Mondeo (07-15), S-Max (10-15), Tourneo Connect (13-15), Transit Connect (13-16)
Volvo:	S60 (11-15), S80 (10-15), V40 (10-15), V60 (11-15), V70 (10-15)
Engine codes:	
Ford:	HXDA, HXDB, HXJA, HXJB, IQDA, IQDB, IQDC, IQJA, JJMA, JQDA, JQDB, JQGA, JQMA, JQMB, JTBA, JTBB, JTDA, JTDB, JTWA, JTWB, KGBA, MUDA, MUDD, PNBA, PNDA, PNDD, RHBA, SIDA, XTDA, XTDB, RVJA, U5JA
Volvo:	B4164T, B4164T2, B4164T3, B4164T4



C 1/2" Sq Drive 22mm Vanos Unit Socket 16pt - BMW, Mini, Ford Chain Drive

Model No. **VSE6134**

Vanos unit socket for BMW, Mini and Ford. 22mm 16-point Socket. 1/2" Sq Drive.



E Crankshaft Pulley Holder Honda

Model No. **VSE5048S**

Used to counter-hold the crankshaft pulley when loosening/tightening the pulley bolt. Short head design for use in confined spaces and on vehicles with a single crankshaft pulley. For use with 1/2" Sq drive breaker bar.

Drive:	1/2" Sq
Head Diameter:	Ø50mm



F Crankshaft Pulley Holder - Honda

Model No. **VSE5048**

Used to counter-hold the crankshaft pulley when loosening/tightening the retaining bolt. Suitable for most Honda vehicles fitted with hydraulic PAS. Use with 1/2" Sq drive breaker bar.

Drive:	1/2" Sq
Head Diameter:	Ø49mm



B Timing Tool Kit - Ford, Volvo 1.6 EcoBoost - Belt Drive
Model No. **VSE6560**

Contains the essential tools required to set and lock the engine along with a tensioner locking pin. Includes a time-saving crankshaft pulley alignment tool.

OEM Tools:	
Ford:	303-748, 303-1054, 303-1097, 303-1550
Volvo:	999-7406, 999-7429, 999-7431
Applications:	
Ford:	B-Max (12-18), C-Max (03-18), Fiesta (08-17), Focus (04-18), Galaxy (10-15), Grand C-Max (10-18), Grand Tourneo Connect (13-15), Kuga (13-15), Mondeo (07-15), S-Max (10-15), Tourneo Connect (13-15), Transit Connect (13-16)
Volvo:	S60 (11-15), S80 (10-15), V40 (10-15), V60 (11-15), V70 (10-15)
Engine Codes:	
Ford:	HXDA, HXDB, HXJA, HXJB, IQDA, IQDB, IQDC, IQJA, JJMA, JQDA, JQDB, JQGA, JQMA, JQMB, JTBA, JTBB, JTDA, JTDB, JTWA, JTWB, KGBA, MUDA, MUDD, PNBA, PNDA, PNDD, RHBA, RVJA, SIDA, U5JA, XTDA, XTDB
Volvo:	B4164T, B4164T2, B4164T3, B4164T4



D Crankshaft Puller Holder/Removal Kit - Jaguar/Land Rover Chain Drive

Model No. **VSE3448**

Suitable for Jaguar and Land Rover 3.0 V6 and 5.0 V8 petrol engines. Contains crankshaft pulley holding tool and puller tools to ensure the pulley is removed without damage.

OEM Tools:	303-1437, 303-1438, 303-1439, 303-1439-01, 303-1440, 303-1441
Applications:	
Jaguar:	F-Pace (16-19), F-Type Cabriolet (13-19), F-Type Coupe (14-19), XE (15-18), XF (09-18), XFR (09-15), XFR-S (13-15), XJ (10-18), XJR (13-18), XK8 (09-15)
Land Rover:	Discovery (17-18), Discovery 4 (09-17)
Range Rover:	Range Rover (09-19), Range Rover Sport (09-19), Velar (17-18)
Engine Codes:	
Jaguar:	AJ-126/306PS, AJ133/508PS, AJ133/508PN
Land Rover:	306PS
Range Rover:	306PS, AJ133/508PS, AJ133/508PN, AJ-133/508PS
Associated Tool:	VSE3445 - Petrol Engine Timing Tool Kit - Jaguar, Land Rover 5.0 - Chain Drive (see page 412)

**A Flywheel Locking Tool - Hyundai, Kia - Chain Drive****Model No. VSE5935**

Used to hold the flywheel when removing or installing the crankshaft damper pulley. Fits a wide variety of Hyundai and Kia diesel vehicles.

OEM Tool: 09231-2B100**Applications:**

Hyundai: Accent (11-15), Elantra (07-10), i20 (09-18), iX20 (10-18), i20 Coupe (15-17), i30 (07-17), iX35 (10-16), i40 (11-18)

Kia: Carens (13-18), Ceed (07-18), Optima (11-15), Pro-Ceed (08-19), Rio (09-17), Cerato (05-07), Soul (09-14), Sportage (10-19), Stonic (17-20), Venga (09-18)

Engine Codes:

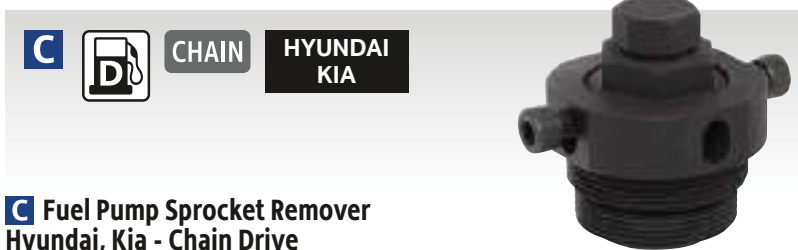
1.1D CRDi: D3FF

1.4D CRDi: D4FC(U1), D4FC(U2)

1.6D CRDi: D4FB(U1), D4FB(U2), D4FB-H(U1), D4FB-H(U2), D4FB-L(U1), D4FB-L(U2)

1.7D CRDi: D4FD(U2), D4FD-H(U2), D4FD-L, D4FD-L(U2)

Associated Tool: VSE5931 - Fuel Pump Sprocket Remover - Hyundai, Kia 1.1, 1.4, 1.6, 1.7 - Chain Drive (see **B**)

**C Fuel Pump Sprocket Remover****Hyundai, Kia - Chain Drive****Model No. VSE5933**

Suitable for Hyundai and Kia chain drive diesel engines. Essential tool for removing the fuel pump sprocket on 2.0D - 2.2D diesel engines.

OEM Tool: 09331-1M100**Applications:**

Hyundai: Santa Fe (10-19), Tucson (15-20), iX35 (10-16), Grand Santa Fe (13-16)

Kia: Sedona (09-13), Sportage (16-20), Sorento (10-20)

Engine Codes:

2.0CRDi: D4HA, D4HA-H, D4HA-L

2.2CRDi: D4HB

**E High Pressure Fuel Pump Sprocket Remover Hyundai, Kia 2.5D - Chain Drive****Model No. VSE5932**

Specialised puller essential for the removal of the high pressure fuel pump sprocket.

OEM Tool: 09331-4A000**Applications:**

Hyundai: H300 (08-20), i800 (08-20), iLoad (08-20), Montana (11-20)

Kia: Sorento (02-10)

Engine Code:

2.5D: D4CB

**B Fuel Pump Sprocket Remover - Hyundai, Kia 1.1, 1.4, 1.6, 1.7 Chain Drive****Model No. VSE5931**

Suitable for Hyundai and Kia 1.1, 1.4, 1.6 and 1.7 chain drive diesel engines. Essential tool for removing the high pressure fuel pump sprocket.

OEM Tool: 093312A010**Applications:**

Hyundai: Accent (11-15), Elantra (07-10), i20 (09-18), iX20 (10-18), i20 Coupe (15-17), i30 (07-17), iX35 (10-16), i40 (11-18)

Kia: Carens (13-18), Ceed (07-18), Optima (11-15), Pro-Ceed (08-19), Rio (09-17), Cerato (05-07), Soul (09-14), Sportage (10-18), Venga (09-18)

Engine Codes:

1.1D CRDi: D3FF

1.4D CRDi: D4FC(U1), D4FC(U2)

1.6D CRDi: D4FB(U1), D4FB(U2), D4FB-H(U1), D4FB-H(U2), D4FB-L(U1), D4FB-L(U2)

1.7D CRDi: D4FD(U2), D4FD-H(U2), D4FD-L, D4FD-L(U2)

**D Hybrid Belt Tensioner Compression Tool - Hyundai, Kia - Belt Drive****Model No. VSE4309**

Essential tool for compressing the hybrid starter generator (HSG) belt tensioner spring when replacing the drive belt.


OEM Tools: 09244-G2100, 09252-2E100**Applications:** Hyundai Sonata, Kia Optima (Hybrid)**F 50ml Low Strength Thread Lock****Model No. SCS222S**

A low strength thread lock for all types of metal threaded fasteners. Prevents fasteners loosening due to vibration and seals against leakage, whilst still allowing easy disassembly of treated parts. Fills gaps up to 0.5mm.

Fixture Time: 15min @ 20°C**Full Cure Time:** 12hr @ 20°C



A




CHAIN

**MG ROVER
LAND ROVER
BMW
VAUX/OPEL**



B



BELT

**CITROEN
FORD
JAGUAR
LAND ROVER
PEUGEOT**

A Timing Tool Kit - BMW M47/M57, Land Rover TD4/TD6, MG 2.0D, GM 2.5D - Chain Drive
Model No. VSE5666
 Camshaft setting and flywheel locking tools to cover BMW M47/TU/T2 and M57/TU/T2 diesel engines used in BMW, Land Rover, MG/Rover and Vauxhall/Opel models. Supplied in storage case. For full specification see page 389.

B Balance Shaft Locking Kit - Citroen, Ford, Jaguar, Land Rover, Peugeot 2.2D - Belt Drive
Model No. VSE3029
 Contains the essential tools for setting and locking the balance shafts on 2.2 belt drive diesel engines fitted in Citroen, Ford, Jaguar, Land Rover and Peugeot vehicles.

C-D Diesel Injection & HP Pump Removers/Sprocket Retainers
Model No. SEE BELOW
 Removes the diesel pump and retains the pump sprocket in situ so that the sprockets/timing chain configuration remains undisturbed, minimizing the level of engine disassembly.

OEM Tools: 303-1328, 303-2329, 303-1330
Applications:
Citroen: C5 (00-04), C5 II (04-08), C5 III (07-15), C6 (07-11), C8 (07-10), C Crosse (07-12)
Ford: Galaxy (08-15), Mondeo (08-15), S-Max (08-15)
Jaguar: XF (11-15)
Land Rover: Discovery Sport (15-16), Freelander II (06-15)
Peugeot: 406 (00-04), 406 Coupe (00-06), 407 (05-11), 508 (11-15), 607 (06-09), 807 (07-10), 4007 (07-12)
Range Rover: Evoque (11-15)
Engine Codes:
2.2D: AJi4D/224DT, 224DT, KNBA, KNBB, KNWA, Q4BA, Q4WA, DW12ATED(4HX), DW12BTED4(4HP), DW12TED4/L4(4HW), DW12MTED4(4HK), DW12MTED4(4HN), DW12BTED4(4HR), DW12BTED4(4HT), DW12CTED4(4HL), DW12BTED4(4HS), DW12ATED4(4HZ), 4HX(DW12TED4), 4HP(DW12BTED4), 4HW(DW12TED4)



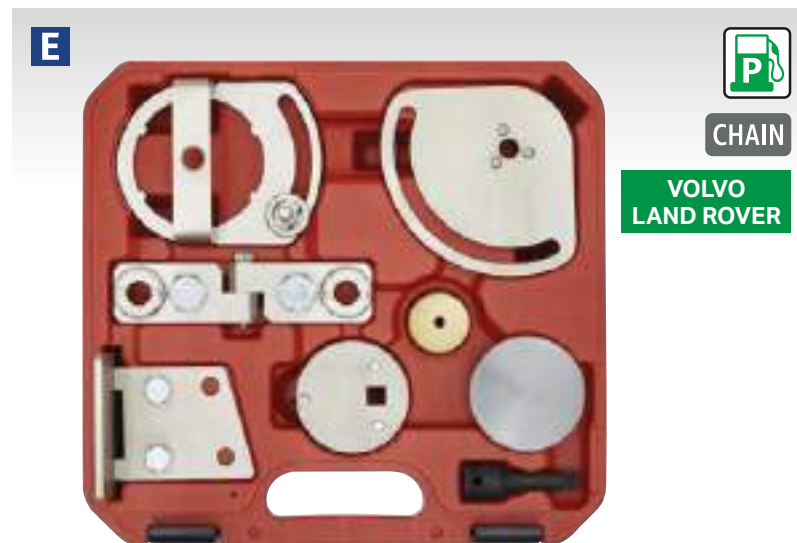
C



CHAIN

**LAND ROVER
BMW
VAUX/OPEL**

C Model No. VSE5664
OEM Tools: 13.5.190, KM-6270
Applications:
BMW 1 Series: 118d E87, 120d E87
BMW 3 Series: 318d E46/90/91, 320d E46/90/91, 325d E90/91/92/93, 330d E46/90/91/92/93, 335d E90/91/92
BMW 5 Series: 520d E39/60/61, 525d E39/60/61, 530d E46/60/61, 535d E60/61
BMW 6 Series: 635d E63/64
BMW 7 Series: 730d E38/65/66
BMW X Series: X3 E83, X5 E53/E70, X6 E71/72
Range Rover: TD6
Vauxhall/Opel: Omega-B
Engine Codes: M47, M47TU, M47T2, M57, M57TU, M57T2, 306D1/TD6, Y25DT



E



CHAIN

**VOLVO
LAND ROVER**

E Timing Tool Kit - Volvo, Land Rover - Chain Drive
Model No. VSE5050
 Covers the range of Volvo 3.0 and 3.2 engines and the Land Rover Freelander 3.2i6.
OEM Tools:
Volvo: 999-7263, 999-7264, 999-7272, 999-7257, 999-7261
Land Rover: 303-1225, 303-1226, 303-1219, 303-1223
Applications:
Volvo: S60 (10-16), S80 (07-15), XC60 (08-15), XC70 (06-15), XC90 (10-14), V60 (10-15), V70 (10-15)
Land Rover: Freelander II (11-14)
Engine Codes:
3.0 Turbo: B6304T2, B6304T4
3.2: B6324S, B6324S5
3.2i6: B6324S



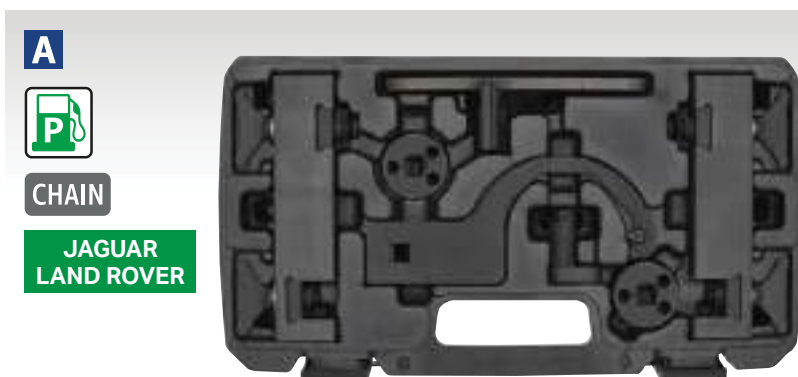
D



CHAIN

**LAND ROVER
MG ROVER**

D Model No. VSE5665
OEM Tools: LRT-12-178, 12-178
Applications:
Land Rover: Freelander TD4
Rover: 75 CDT/CDTi
MG: ZT/T
Engine Codes: 204D3/TD4, M47R



A Timing Tool Kit - Jaguar, Land Rover 5.0 - Chain Drive

Model No. **VSE3445**

Essential tools for setting and locking the engine during timing chain replacement. Contains camshaft turning tools, a flywheel locking tool and a timing chain pre-tensioner tool. Supplied in a storage case with instructions and a warning tag.

OEM Tools: 303-1303, 303-1304, 303-1445, 303-1452, 303-1482

Applications:

Jaguar: XF (09-13), XJ (10-13), XK8 (09-15)

Land Rover: Discovery 4 (09-16)

Range Rover: Sport (09-20), Range Rover (02-20)

Engine Codes:

5.0: AJ-133/508PN, AJ-133/508PS



C Crankshaft Pulley Removal/Installation Kit - Jaguar, Land Rover V8 Chain Drive

Model No. **VSE5096**

Some crankshaft pulley bolts require a torque as high as 375Nm, making the tools in this kit an essential part of the procedures of removal/installation of the crankshaft pulley. Use in conjunction with Model No. VSE5091 (see page 413). Suitable for Jaguar and Land Rover 3.2, 3.5, 4.0, 4.2, 4.4 V8 petrol engines.

OEM Tools: 18G 1437, 18G 1437 2, 303 191, 303 191 03, 303 191 04, 303 588, 303 893, LRT 12 080

Applications:

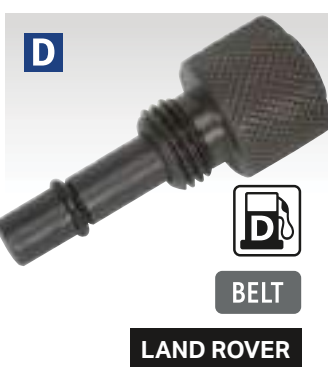
Land Rover: Discovery 3; 4.2, 4.4 LA V8 (05-09), Range Rover; 4.2, 4.4 Sport LS V8 (05-09), Range Rover; 4.2, 4.4 LM V8 (06-08)

Jaguar: S-Type; 3.2, 3.5, 4.2 V8 (99-08), XF; 3.2, 3.5, 4.2 V8 (08-09), XJ; 3.2, 3.5, 4.2 V8 (97-08), XJ8; 4.0 (97-98), XK; 3.2, 3.5, 4.2 V8 (97-08), XK8; 4.0 (97-98)

Daimler V8: 4.0 (97-98)

Engine Codes: AJ26, AJ27, AJ28, AJ34

Associated Tool: VSE5091 - Timing Tool Kit (see page 413)



D Timing Pin Land Rover EDC 300TDi - Belt Drive

Model No. **VSE2302**

Suitable for locking the flywheel in the timed position on Land Rovers fitted with the 300TDi engine EDC (Electronic Diesel Control) and manual transmission.

OEM Tool: LRT-12-085

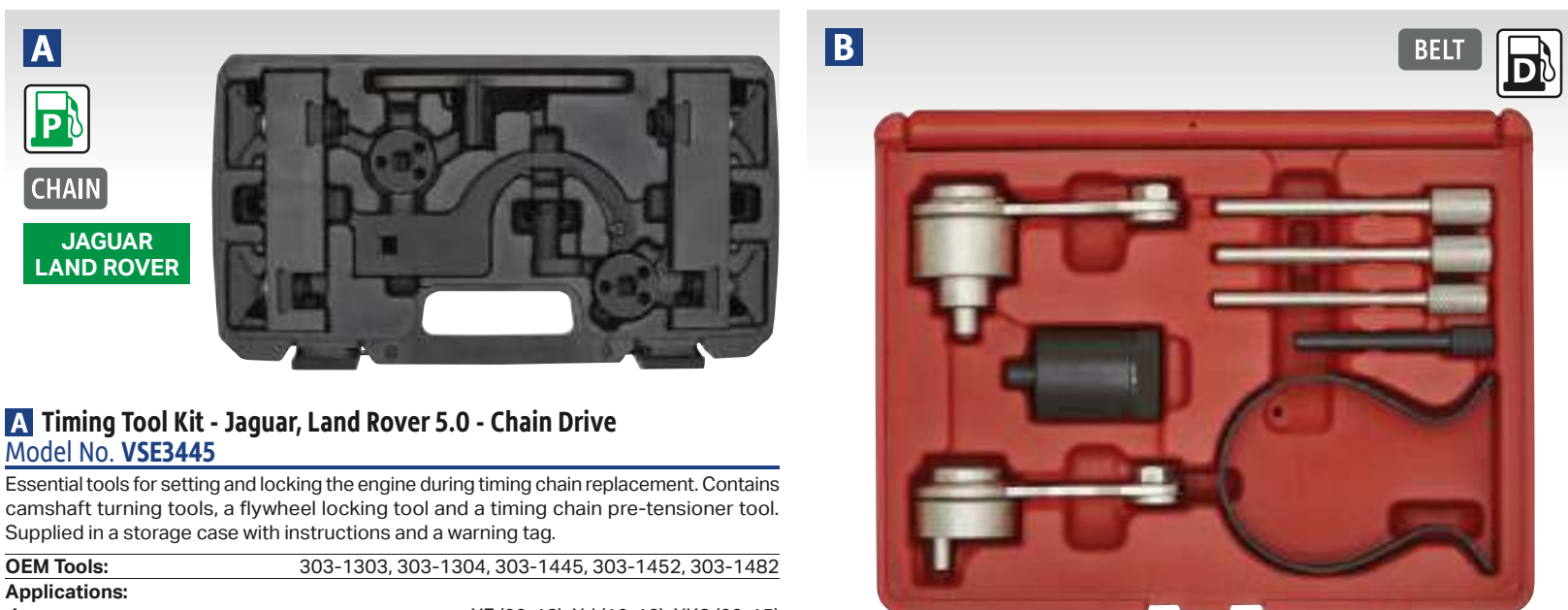
Applications:

Land Rover: Defender (94-99), Discovery (94-98)

Range Rover: Classic (94-95)

Engine Code:

2.5D: 300TDi EDC



B Timing Tool Kit - Citroen, Jaguar, Land Rover, Peugeot 2.7D, 3.0D - Belt Drive

Model No. **VSE5000A**

Suitable for timing belt replacement on 2.7 and 3.0 V6 diesel engines fitted in Citroen, Jaguar, Land Rover (TDV6), and Peugeot vehicles. Kit contains camshaft locking and checking pins, flywheel locking tools, coolant pump pin and belt retaining clip.

OEM Tools: 303-1116, 303-1117, 303-1126, 303-1132, 0188-K, 0195-C, 0195-H, 0195-K

Applications:

Citroen: C5 III (07-14), C6 (05-09)

Jaguar: S-Type (04-08), XF (08-20), XJ (10-20), XJ6 (05-10), F-Pace (16-20)

Land Rover: Discovery (17-18), Discovery 3 (04-09), Discovery 4, (09-17), Range Rover (12-20), Range Rover Sport (05-20), Range Rover Velar (17-20)

Peugeot: 407 (04-09), 407 Coupe (06-12), 607 (04-11)

Engine Codes:

2.7D/TDV6/TDV: 276DT, 7G

2.7D HDi: DT17BTED4(UHZ)

3.0D HDi: D20CTED4(X8Z), DT20C(X8C), DT20C(X8Z)

3.0D SDV6/TDV6: AJV6D, 306DT, AJ-V6D/306DT

Associated Tool: VSE5312 - Fuel Pump Holding Tool - Jaguar/Land Rover 3.0 Diesel Engine (see **E**)



E Fuel Pump Holding Tool Jaguar, Land Rover 3.0D TDV6 - Belt Drive

Model No. **VSE5312**

Used to position and lock the high pressure fuel pump into its timed position when changing the fuel pump drive belt.

OEM Tool: 310-212

Applications:

Jaguar: XF (09-18), XJ (09-14), F-Pace (16-18)

Land Rover: Discovery 3 (04-09), Discovery 4 (09-20), Range Rover L405 (12-20), Range Rover Sport (09-20), Range Rover Velar (17-20)

Engine Codes:

3.0D TDV6: 306DT, AJ-V6D/306DT

Associated Tool: VSE5000A - Timing Tool Kit - Land Rover, Jaguar, Citroen, Peugeot 2.7D, 3.0D - Belt Drive (see **B**)



A Timing Tool Kit - Ford, Jaguar, Land Rover, Volvo 2.0D, 2.2D/TDCi/TD4 - Belt Drive
Model No. **VSE6126**

Contains flywheel locking tools and camshaft pin for engine timing and timing belt replacement on Land Rover 2.2D TD4, Volvo 2.0D and Ford 2.0/2.2D TDCi models.

OEM Tools: 303-1270, 303-1272, 303-1277, 303-393-01, 303-735, 303-1059, 303-393/303-393A, 999-7119, 999-7120, 999-7121, 999-7122

Applications:

Ford: C-Max (07-18), Grand C-Max (10-18), Focus (04-18), Focus C-Max (03-17), Galaxy (06-18), Kuga (08-17), Mondeo (07-18), S-Max (06-18)

Jaguar: XF (11-15)

Land Rover: Freelander 2 TD4 (06-15), Range Rover Evoque (11-15)

Volvo: C30 (06-10), C70 (06-10), S40 (03-10), S80 (07-10), V50 (04-10), V70 (07-10)

Engine Codes:

2.0D TDCi: D4204T, D4204T2, AZBA, AZBC, AZWA, G6DA, G6DB, G6DC, G6DD, G6DE, G6DF, G6DG, IXDA, KLBA, KLWA, LPBA, QXBA, QXBB, QXWA, QXWB, T7CE, T7CJ, T7CK, T7CL, T7DA, T7DB, T7MA, T7MB, T8CH, T8CD, T8CJ, T8CL, TXBA, TXDA, TXDB, TXWA, TYBA, TYDA, TYWA, UFBA, UFDA, UFDB, UFWA, UKBA, UKDA, UKDB, UKWA

2.2D TD4/TDCi: DW12CTED4, DW12BTED/224DT, KNBA, Q4BA

2.2D (Jaguar): AJi4D/224DT

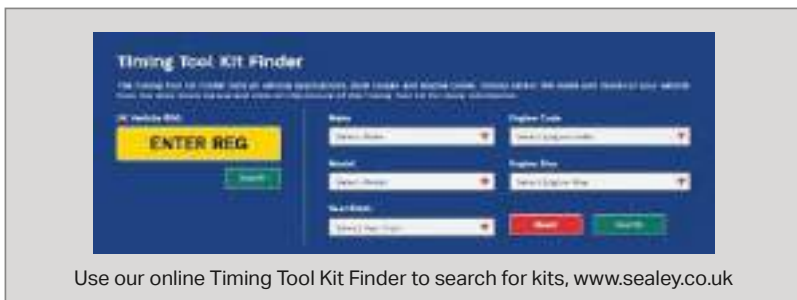


C Rear Main Oil Seal Remover/Installer - Land Rover 2.25 - Chain Drive
Model No. **VSE3038**

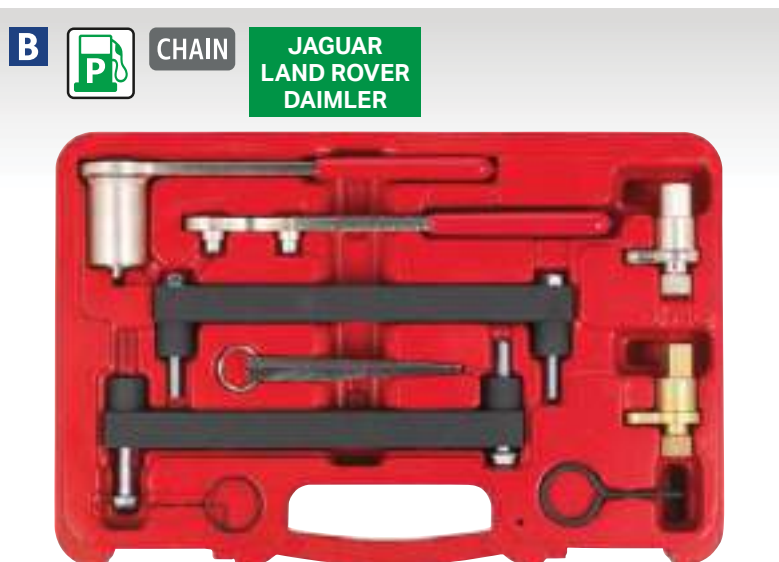
Crankshaft rear seal remover/installer. Time-saving tool, supplied with pin punch and self tapping screws to easily remove the old seal. Unique design ensures the new seal is pushed in squarely and correctly. Fits all petrol and diesel 2.25 engines with five bearing crankshaft.

Applications:

Land Rover: Series III (80-85), Defender 90 (83-85), Defender 110 (83-85)



For our latest information, use our Timing Tool Kit Finder on www.sealey.co.uk



B Timing Tool Kit - Jaguar, Land Rover, Daimler 3.2, 3.5, 4.0, 4.2, 4.4 V8 - Chain Drive
Model No. **VSE5091**

Contains specialised tools required for timing chain setting and locking on Jaguar, Land Rover and Daimler 3.2, 3.5, 4.0, 4.2, 4.4 V8 petrol engines. Supplied with comprehensive instructions and storage case.

OEM Tools: 303-530, 303-531, 303-532, 303-533, 303-645, 303-654

Applications:

Daimler: V8 (97-03), SUPER V8 (97-03), SUPER EIGHT (05-10)

Jaguar: S-Type (99-08), XF (08-10), XJR (97-10), XJ8 (97-10), XKR (98-09), XK8 (96-09), Sovereign (97-03)

Land Rover: Discovery III (04-09), Range Rover (05-09), Range Rover Sport (05-09)

Engine Codes:

3.2: AC, KB, KC

3.5: RB

4.0: BC, CC, CE, DC, EC, GB, GC, LB, LC, MA, MB, NB, NC, PA, PB

4.2: 1B, 2B, 3B, 1G, 5G, 9G, HB, HG, SB, TB, PC, 428PS

4.4: 448PN

Associated Tool: VSE5096 - Crankshaft Pulley Removal/Installation Kit - Jaguar, Land Rover V8 - Chain Drive (see page 412)



D Timing Tool Kit - Jaguar, Land Rover 2.0 - Chain Drive
Model No. **VSE5394**

Suitable for Jaguar, Land Rover 2.0 chain drive petrol engines. Kit includes crankshaft pulley and crankshaft sensor positioning tools. Comprehensive instructions and warning tag are included. Supplied in storage case.

OEM Tools:

Jaguar: 303-1600, 303-1595, 303-1594, 303-748, 303-1521

Land Rover: 303-1600, 303-1595, 303-1594, 303-748, 303-1901A

Applications:

Jaguar: XF (12-16), XJ (13-16), XE (15-16)

Land Rover: Discovery Sport (15-16), Evoque (11-16), Freelander (12-15)

Engine Code:

2.0: 204PT



A Timing Tool Kit - Fiat, Ford, JLR, LDV, PSA 2.0D, 2.2D, 2.4D, 3.2D - Chain Drive Model No. VSE5842

Provides timing retention for Ford 2.0, 2.2, 2.4 & 3.2 Duratorq 'Puma' chain diesel engines. Kit comprises flywheel locking pins (common rail & non-common rail), camshaft and injection pump locking pins, tensioner locking pin.

OEM Tools:

Ford:	303-698 (21-251), 303-675 (21-234)
Citroen/Peugeot:	0198.B2, 0198.A, 0198.J
Fiat:	2.000.016.500, 2.000.017.100
Jaguar:	303-698
Land Rover:	303-698
LDV:	LDV167, LDV173

Applications:	Ford: Mondeo (00-07), Ranger (11-17), Transit (00-14)
Citroen: Relay/Jumper III (06-12)	Fiat: Ducato (06-14)
Jaguar: X-Type (03-10)	Land Rover: Defender TD4 (06-11)
LDV: Convoy (02-06)	Peugeot: Boxer III (06-14)

Engine Codes:

2.0D: ABFA, D3FA, D5BA, D6BA, F3FA, FIFA, FMBA, FMBB, HJBA, HJBB, HJBC, HJBE, N7BA, N7BB, SDBA

2.2D HDi/TDi: 4HV, CVRB, CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P22DTE(4HG), P22DTE(4HH), P22DTE(4HJ), P22DTE(4HM), P22DTE(4HU), P22DTE(4HV), P8FA, P8FB, PGFA, PGFB, QJBA, QJBA(BG), QJBB, QJBC, QJBD, QVFA, QWFA, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, USRA

2.4D Di/TDCi: 244DT, D2FA, D2FB, D4FA, DOFA, F4FA, FXFA, H9FA, H9FB, H9FD, JXFA, JXFC, PHFA, PHFC, ZSD 424

3.2D TDCi: SAFA, SAFB



C Camshaft Locking Tool - Lotus, MG/Rover K-Series Engines - Belt Drive Model No. VSE180B

Camshaft locking device, made from aluminium, fits between the two camshaft pulleys to lock the camshafts on Rover K-Series engines.

OEM Tool:

18G-1570

Applications:

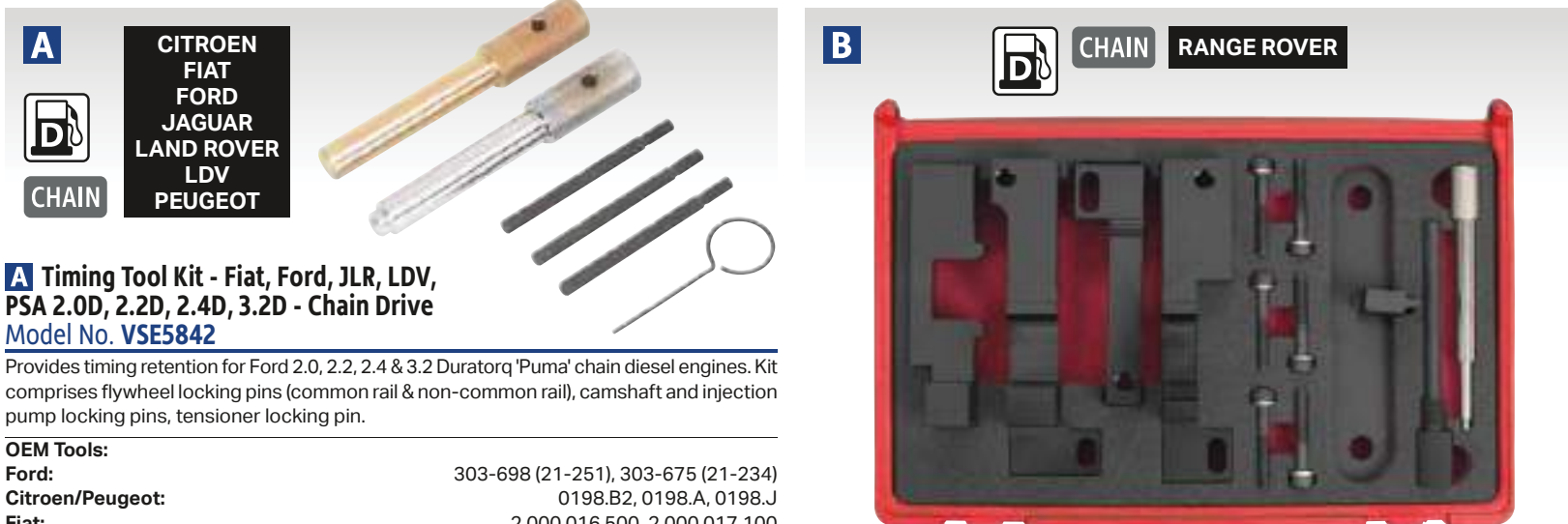
Lotus: Elan (90-92), Elan SE Turbo (90-92), Elan S2 (94-95), Elise Series 1 (96-01), Elise Series 1 111S VVC (99-01), Elise Series 1 Sport 160 (98-01), Elise Series 2 (00-05), Elise Series 2 111/111S VVC (02-05), Elise Series 2 R (06-10), Elise Series 2 135R (03), Elise Series 2 111R (04-06), Elise Series 2 SC (08-10), Elise Series 3 R (10-11), Elise Series 3 SC (10-11), Exige Series 2 VVT-Li (04-07), Exige Series 2 S (06-11), Exige Series 2 S Performance (08-11), Exige Series 2 Cup (06-07), Exige Series 2 Cup 240 (06-07), Exige Series 2 240R (05-06), Exige Series 2 Cup 260 (09-11)

MG: ZR (01-05), ZS (01-05), ZT (01-05), MGF (95-02), MGTF (02-05), Express (03-05)

Rover: Streetwise (03-05), Metro (90-95), 45 (99-05)

Engine Codes:

1.4 16v:	K1614
1.6 16v:	4XE1, 16V4XE1T, 16V4XE1, K1616
1.8 16v:	18K4F, 2ZZGE, 18K4K, 2ZZGE, K1618



B Timing Tool Kit - Range Rover 3.6D - Chain Drive Model No. VSE5010

Kit for Range Rover L320 and L322 V8 3.6D. Includes a flywheel locking plate and camshaft rotating pin. Supplied in a storage case.

OEM Tools:

303-1236, 303-1243, 303-1238, 303-1239

Applications:

Range Rover: Range Rover L322 (06-11), Range Rover Sport L320 (06-11)

Engine Code:

V8 3.6D: 368DT



D Timing Tool Kit - Land Rover 2.5D/TD5 - Chain Drive Model No. VSE5986

Set comprises flywheel locking pin (threaded) and camshaft locking pin to cover engine timing on the Land Rover TD5 engines in Defender and Discovery models.

OEM Tools:

LRT-12-058, LRT-12-158

Applications:

Land Rover: Defender TD5 (99-07), Discovery II (98-05)

Engine Codes:

2.5D TD5: 10P, 15P



E Crankshaft Sensor Trigger Wheel Installer - Jaguar, Land Rover Model No. VS231

Designed for the installation of the crankshaft trigger wheel found on Land Rover and Jaguar.

OEM Tool:

303-1130

Applications:

Jaguar: X350 XJ / X351 XJ (300 Powertrain), X200 S Type, X250 XF

Land Rover: Discovery 3/4, Range Rover Sport TDV6 Engine (3 Powertrain)



A Auxiliary Belt Tensioner Spanner Set - BMW Mini N12/N14/N16/N18 Chain Drive

Model No. VSE6211

2-Piece spanner set covering both sizes of belt tensioner fitted to a wide range of BMW Mini engines. Slimline design for access where space is limited. Sturdy handle also has a 1/2" Sq drive if required.

OEM Tool: 116-210

Applications:

BMW Mini: Mini R56/57 (06-15), Clubman R55 (07-14), Coupe R58 (11-15), Roadster R59 (11-15), Paceman R61 (13-17), Countryman R60 (10-17), Countryman R55 (12-14)

Engine Codes:

1.4: N12B14, N12B14AB

1.6: N12B16A, B14B16CD, N14B16CD/TO, N14B16TO, N16B16A, N16B16AM0, N16B16A/MO, N16B16K0, N16B16M0, N16B16UO, N18B16A, N18B16A/MO, N18B16A/MO, N18B16C, N18B16C/TO, N18B16M0



C Timing Chain Wear Indicator - BMW Mini

Model No. VSE2381

Allows checking of wear of the timing chain on a range of BMW Mini petrol engines with the minimum amount of dismantling. This saves a significant amount of time when checking for timing chain stretch and wear.

OEM Tool: 235.3.281

BMW Mini: Mini (06-15), Clubman (07-14), Coupe (11-15), Clubvan (11-14), Countryman (10-17), Paceman (13-17), Roadster (12-15)

Engine Codes:

1.4: N12B14, N12B14AB

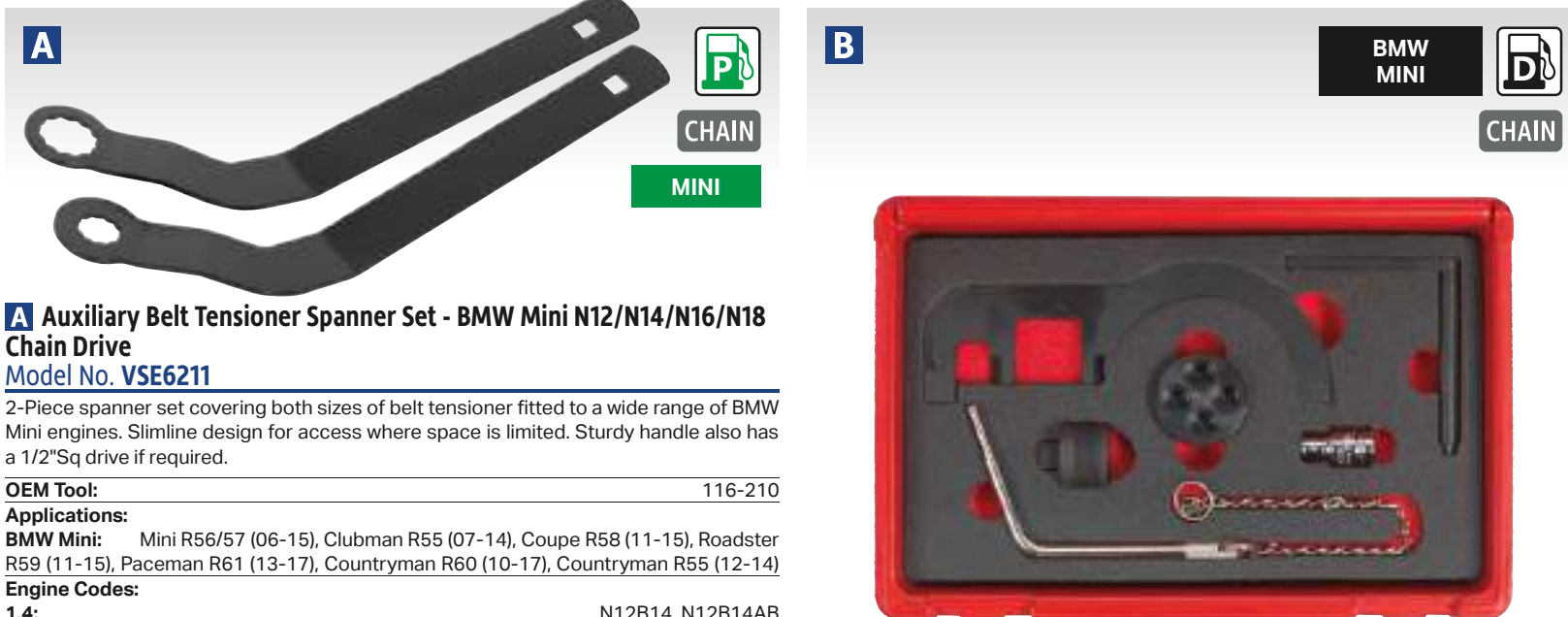
1.6: N12B16A, N16B16A, N16B16M0, N16B16UO, N16B16A/MO, N16B16K0, N18B16A, N18B16A/MO, N18B16C, N18B16A/MO, N18B16M0, N18B16C/TO



D Engine Support Bracket - BMW Mini - Chain Drive

Model No. VS5214

Designed to provide a safe secure method for supporting the engine if the engine mounting has to be removed for cylinder head work. Prevents the engine from slipping or dropping unexpectedly. When installed the vehicle can be moved to another location without the need to use a lifting device. Suitable for N12, N14, N16 and N18 Engines fitted in BMW Mini models.



B Timing Tool Kit - BMW, BMW Mini 1.5D, 1.6D, 2.0D, 3.0D Chain Drive

Model No. VSE6121A

Essential tools for timing the BMW, BMW Mini 1.5D, 2.0D and 3.0D chain drive diesel engines. Kit includes camshaft setting plate, flywheel locking pin, crankshaft turning tool, and is suitable for the new generation of modular engines. Kit also includes HP pump sprocket retaining tool required during pump removal/replacement applications on N47/N57 engines. Supplied in storage case with instructions and warning tag.

OEM Tools: 11.5.320, 11.6.480, 11.8.760, 11.8.740, 288-380

Applications:

BMW: 114d (15-19), 116d (11-19), 118d (07-14), 120d (07-14), 123d (07-14), 125d (12-14), 214d Active Tourer (14-19), 214d Grand Active Tourer (15-19), 216 d (14-20), 218d (11-16), 220d (14-20), 225d (11-14), 316d (09-12), 318d (07-12), 320d (10-13), 325d (10-14), 330d (08-19), 330d Gran Turismo (13-20), 330xd (08-12), 335d (13-19), 425d (13-16), 425d (14-16), 435d Cabriolet (14-19), 435d Gran Coupe (14-20), 520d (07-13), 525d (10-12), 530d (10-15), 530d GT (09-19), 535d (10-17), 535d GT, (10-12), 640d (11-18), 640d Gran Turismo (12-18), 730i (08-15), 730Ld (08-12), 740d (09-12), 750d (12-15), X1 (15-18), X2 (18-20), X3 (11-17), X4 (14-19), X5 (10-18), X6 (10-19)

BMW Mini: Clubman (10-14), Clubvan (10-14), Cooper D (11-15), Cooper SD (10-15), Countryman (10-17), Coupe (11-14), One D (10-14), Paceman (13-17), Roadster (12-14)

Engine Codes:

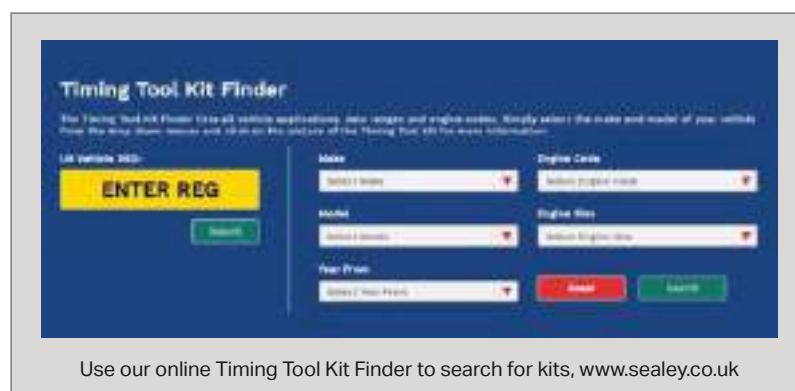
1.5D: B37C15A, B37D15A

1.6D: N47 C16K1, N47 C16U1

2.0D: N47 D20K1, N47D20U1, N47D20O1, N47D20, N47D20T1, B37C15A, N47D20C, N47D20D, N47D20UO, N47TD20U1, N47TD20, N47TD20O1, D20D, N47D20O0, N47SD20T0, N47C20K1, N47C20U1

3.0D: N57D30UO, N57D30O0, N57D30O1, N57D30B, N57D30UO, N57D30TO, N57D30T1, N57D30B/T1, N57B30B, N57D30B/TO, N57D30C

Associated Tool: VSE6121.05 - Crankshaft Holding Tool - BMW N47/N57 2.0, 3.0 - Chain Drive



A



CHAIN

BMW
MINI



A Timing Tool Kit - BMW, BMW Mini 1.2, 1.6, 2.0 - Chain Drive Model No. VSE6122

Fits the new generation of BMW modular petrol engines. Contains the tools required to set and lock the engine and for valve timing checking and adjusting.

OEM Tools: 35.8.122, 288.380

Applications:

BMW: 116i F20/21 (15-19), 216i F45 (14-18), 216i F46 Gran Tourer (15-19), 218i Coupe F22 (15-20), 218i F23 Cabriolet (15-20), 220i F45 (14-17), 220i F46 Gran Tourer (15-19), 225i F45 (14-18), 318 F30/31 (15-19), 330i F30/31 (15-18), 418i Gran Coupe (15-20), 418i Coupe (16-20), i8 (14-17), X1 F48 (15-20), X2 (18-20)

BMW Mini: Mini Hatch F55 (14-19), Mini Hatch F56 (14-19), Mini Clubman (15-20), Mini Countryman (17-20), Mini Convertible (16-20)

Engine Codes:

1.2: B38A12A
1.6: B38A15A, B38B15A, B38K15A
2.0: B48A20A, B48B20B

C



CHAIN

MINI
CHRYSLER



C Camshaft & Crank Pulley Kit - BMW Mini, Chrysler 1.6 Chain Drive Model No. VSE119

Engine service kit for removing/installing camshaft sprocket and installing crankshaft pulley on Mini R50/52/53 & Chrysler PT Cruiser 1.6 petrol engines. Kit also includes engine support bracket. Supplied in storage case.

OEM Tools: 11.8.240, 11.8.250, 11.8.370

Applications:

BMW Mini: 1.6 Cooper (01-09), 1.6 Cooper S (02-09), 1.6 One (01-09)
Chrysler: PT Cruiser (01-09)

Engine Codes:

1.6: EJD, W10B16AA, W10B16BA, W11B16BA

Associated Tool: VSE1191 - Crankshaft Pulley Remover for BMW Mini W10, W11 Petrol Engine - Chain Drive (see [D](#))

B



CHAIN

MINI
CITROEN
PEUGEOT



B Timing Tool Kit - BMW Mini, Citroen, Peugeot 1.4, 1.6 Chain Drive Model No. VSE6131

Suitable for timing 1.4 & 1.6 16v Valvetronic direct injection, chain drive petrol engines, fitted in BMW Mini, Citroen and Peugeot vehicles. Supplied in storage case with comprehensive instructions.

OEM Tools:

BMW Mini: 11.5.540, 11.5.590, 11.9.340, 11.9.550

Citroen: 0197-A1, 0197-A3, 0197-B

Peugeot: 0197-A1, 0197-A3, 0197-BZ

Applications:

BMW Mini: Mini Clubvan R55 (12-14), Mini Clubman R55 (08-14), Mini Countryman R55 (07-10), Mini Clubman R56/R57 (07-15), Mini R56/R57 (08-15), Mini Coupe R58 (11-15), Mini Roadster R59 (08-15), Mini Clubman R60 (10-14), Mini Clubvan R60 (12-14), Mini Roadster R61 (13-15), Mini Paceman R61 (14-17), Mini Countryman R60 (10-17)
Citroen: C4 (08-11), C4 Picasso (08-13), C4 Grand Picasso (13-15)
Peugeot: 207 (06-14), 207CC (07-15), 308 (07-15), 3008 (09-15), 5008 (09-15)

Engine Codes:

1.4: N12B14, N12B14AB
1.6: EP3(8FS), EP3C(8FR), EP6(5FW), EP6C(5FS), EP6CDT(5FV), EP6DT(5FT), EP6DT(5FX), EP6DTS(5FY), N14B16A, N14B16CD, N14B16T0, N14B16CD/T0, N16B16A, N16B16K0, N16B16A/M0, N16B16A/MO, N16B16M0, N16B16U0

Associated Tool: VSE6156 - Balance Shaft Alignment Tool Kit - BMW, BMW Mini, Citroen, Peugeot - Chain Drive (see page 402)

D



CHAIN

MINI



D Crankshaft Pulley Puller - BMW Mini W10, W11 - Chain Drive Model No. VSE1191

Crankshaft pulley puller for use on Mini W10 and W11 chain drive petrol engines. Specially designed for the removal of the crankshaft pulley without causing damage to the pulley. Fits both types of W11 crankshaft pulley.

OEM Tool: 11.8.310

Application:

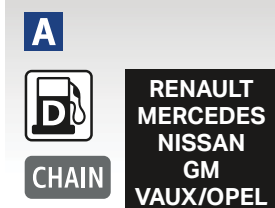
BMW Mini: R50/52/53 (01-09)

Engine Codes:

1.4: W10B14A

1.6: W10B16AA, W10B16BA, W11B16AA

Associated Tool: VSE119 - Camshaft & Crank Pulley Kit - BMW Mini, Chrysler 1.6 - Chain Drive (see [C](#))



A Timing Tool Kit - Renault, Mercedes, Nissan, GM 1.6D, 2.0, 2.3 dCi/CDTi - Chain Drive Model No. VSE5086A

Suitable for setting and locking 2.0 & 2.3dCi/CDTi chain drive engines fitted in Renault, Mercedes, Nissan and Vauxhall/Opel models. Includes a crankshaft holding tool. Supplied in storage case with instructions and warning tag.

OEM Tools:

Renault/Nissan: Mot1766, Mot1769, Mot1773, Mot1969, Mot1970, Mot1770

Mercedes: 626.589.001.500, 626.589.024.000, 626.589.044.000

Vauxhall/Opel: KM-6130, EN-48334, EN-48331, EN-48330

Applications:

Renault: Espace IV (06-10), Grand Espace IV (06-10), Grand Scenic II (06-09), Grand Scenic III (09-15), Koleos (08-19), Laguna II (05-07), Laguna III (07-15), Master III (10-15), Megane II (06-10), Megane IV (16-18), Scenic II (06-09), Scenic III (09-15), Scenic IV (16-18), Talisman (15-18), Trafic II (06-14), Vel Satis (05-10)

Nissan: Primastar (06-15), Qashqai (07-16), X-Trail (07-16)

Mercedes: C180 (14-15)

Vauxhall/Opel: Movano-B (10-19), Vivaro (06-16)

Engine Codes:

1.6D: 626.951, LQI/R9M452, LWU/R9M450, LWX/R9M408, LWX/R9M413, LWY/R9M452, LWZ/R9M408, R9M

2.0D CDTi: M9R630, M9R700, M9R780, M9R782, M9R784, M9R786, M9R788

2.0dCi: M9R, M9R610, M9R615, M9R630, M9R700, M9R720, M9R721, M9R722, M9R724, M9R740, M9R742,

M9R744, M9R746, M9R748, M9R750, M9R754, M9R760, M9R761, M9R762, M9R763,

M9R780, M9R782, M9R784, M9R786, M9R788, M9R800, M9R802, M9R805, M9R808,

M9R812, M9R814, M9R815, M9R816, M9R820, M9R830, M9R832, M9R833, M9R834,

M9R835, M9R836, M9R838, M9R845, M9R849, M9R855, M9R856, M9R858, M9R859

2.3D Bi-CDTi/Bi-CDTi ecoFlex: LOD/M9T702, LOD/M9T708, LP6/M9T706,

LW7/M9T706, LWK/M9T708

2.3D CDTi/ecoFlex: LOB/N9T870, L2U/M9T680, L2U/M9T880,

L2U/M9T896, L2U/M9T898, LWJ/M9T880, LWJ/M9T896, LWJ/M9T898,

LWK/M9T870, LWK/M9T890, LWK/M9T892, LWL/M9T870, LWL/M9T890, M9T670, M9T672,

M9T676, M9T678, M9T680, M9T686, M9T690, M9T692, M9T694, M9T698

2.3D dCi: LW7/M9T706, M9T670, M9T672, M9T676, M9T680, M9T686,

M9T690, M9T692, M9T694, M9T696, M9T698



C Timing Tool Kit - Dacia, Mercedes, Renault 1.5 dCi - Belt Drive Model No. VSE4810

Essential tools for timing belt replacement on Dacia, Mercedes and Renault 1.5 dCi diesel engines. Supplied with a warning tag and instructions.

OEM Tools:

Mercedes: 607.589.011.500, 607.589.001.500

Renault/Dacia: Mot1430, Mot1489

Applications:

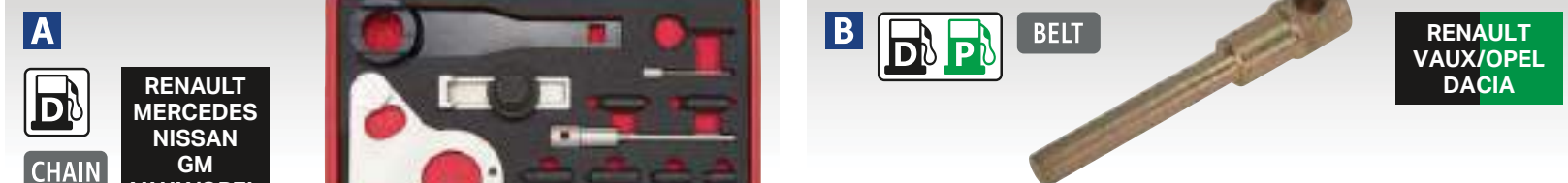
Mercedes: A180 (12-15), B160 (13-17), B180 (12-17), Citan (12-19), CLA (15-18), GLA (15-18)

Renault: Bebop (12-13), Captur (13-15), Clio IV (12-15), Clio IV Grand tour (13-15), Grand Kangoo II (13-16), Kangoo (13-16)

Dacia: Dokker (12-15), Dokker Express (12-15), Duster (10-15), Lodgy (12-15), Logan (10-13), Logan Express (10-13), Logan Pick Up (10-13), Sandero II (10-13)

Engine Codes:

1.5 dCi: 607.951, K9K 608, K9K 609, K9K 612, K9K 796, K9K 846, K9K 856, K9K 858, K9K 884, K9K 892, K9K 894, K9K 898, K9K 896



B TDC Timing Pin - Dacia, Renault, Vauxhall/Opel - Belt Drive Model No. VSE1903

TDC timing pin used on a variety of diesel and petrol Renault engines.

OEM Tool:

1054/861/863

Applications - Diesel:

Dacia 1.2 16V: Logan (09-17), Logan/MCV (13-17), Sandero (08-17)

Renault 1.9: Avantime (05-07), Clio (99-08), Clio IV (12-18),

Espace (97-08), Kangoo (99-08), Laguna (97-07), Master (00-06), Megane (95-08), Modus (04-08), Scenic (95-08), Trafic (01-08), Twingo (07-08), 2.5/2.8D, Master (00-06) S8U S9W

Vauxhall/Opel 1.9: Movano (00-08), Vivaro (01-08)

Engine Codes - Diesel:

Dacia: D4F 732, D4F 734

Renault F8Q: 600, 606, 610, 620, 622, 624, 630, 632, B640, 682, 644, 648,

646, 680, 648, 662, 672, 676, 678, 680, 684, 692, 696, 706, 710, 714, 722, 724, 730, 732,

740, 744, 764, 768, 776, 784, 786, 788, 790, A706, B640, 682, P6

Renault F9Q 1.9: 670, 674, 680, 718, 750, 752, 754, 717, 730, 731, 734, 736, 744, 780,

782, 820, 826, 870, 872

Vauxhall/Opel F9Q: 724, 760, 762, 770, 774, W772

Vauxhall/Opel G9T: 720, 750, F722

Applications - Petrol:

Renault: 5 (90-96), Clio (97-03), Clio II (98-13), Clio III (02-15), Clio IV (12-16), Espace

(98-07), Kangoo (98-05), Kangoo (98-04), Laguna (98-01), Laguna II (01-07), Megane

(95-03), Megane II (02-12), Modus 1.2 (04-09), Grand Modus (04-13), Scenic (99-03), Grand

Scenic (03-09), Megane Scenic (99-03), Twingo (10-14), Extra/Rapid/Rapid Express (97-01)

Engine Codes - Petrol:

Renault D4F: 722, 728, 740, 764, 770, 772

Renault D7F: 720

Renault D4P: 720, 760, 770, 771

Renault F4R: 700, 701, 720, 730, 740, 741, 744, 770, 771, 780

Renault F4R(t): 776, 784, 786, 787

Renault F5R: 700, 701, 740

Renault F8M: 720, 730, 736, 760



D Timing Tool Kit - Renault, Nissan 1.5 dCi, Suzuki DDiS, Dacia dCi Belt Drive Model No. VSE1901A

Essential tools for timing belt replacement on Renault/Nissan 1.5 dCi diesels. Covers engine codes K9K. These engines are also fitted in Suzuki and Dacia models.

OEM Tools:

Mot1489/KV113B0130/09919-58110,

Mot1054/Mot1430/KV113B0110/09919-58120

Applications:

Dacia: Dokka (12-15), Duster (10-14), Lodgy (12-15), Logan/MCV/Express/Pick Up

(05-15), Logan Van (06-15), Sandero (08-11)

Nissan: Cube Z12

(08-11), Juke F15 (10-17), Kubistar X76 (03-09), Micra K12 (03-10), Micra (17-19), Note

E11 (06-12), NV200 M20 (09-16), Pulsar (14-15), Qashqai/+2 (07-15), Tiida C11 (07-11)

Renault: Captur (13-17), Clio II/Clio Campus/Clio Storia (01-11),

Clio III (05-15), Fluence (09-15), Kangoo (00-09), Kangoo II/Kangoo Bebop (08-13),

Laguna III (07-15), Megane II (02-10), Megane III (08-15), Modus (04-08), Modus/Grand

Modus II (08-11), Scenic/Grand Scenic II (03-15), Scenic/Grand Scenic III (09-15),

Thalia (04-08), Twingo II (07-10)

Suzuki: Jimny (03-11)

Engine Codes:

K9K 1.5D dCi: 260, 270, 272, 274, 299, 612, 636, 646, 700, 702, 704, 706, 710,

712, 714, 716, 718, 722, 724, 728, 729, 732, 734, 740, 750, 752, 760, 762, 764, 766, 768, 770,

772, 774, 780, 782, 790, 792, 794, 796, 800, 802, 804, 806, 808, 816, 830, 832,

834, 836, 837, 846, 884, 892, 894, 896, 898

K9K 1.5D DDiS: 262, 266, 299

F9Q 1.9D Di-D: 1, 2

A



BELT

RENAULT
NISSAN
VAUX/OPEL
DACIA

A Timing Tool Kit - Renault, Nissan, Vauxhall/Opel, Dacia 1.4, 1.6, 1.8, 2.0 16v - Belt Drive

Model No. **VSE5071**

Suitable for timing belt replacement on the 1.4, 1.6, 1.8 and 2.0 engines fitted in Renault vehicles. These engines will require the use of associated tools, Model No's. VSE5033 or VSE5734 Camshaft Sprocket Holding Tools, to loosen the camshaft sprocket bolts. Supplied in storage case.

OEM Tools: Mot1054, Mot1489, Mot1496

Applications:

Dacia: Logan/MCV (05-11)

Renault: Avantime (00-03), Clio II (99-06), Clio III/Sport (06-09), Espace/Grand Espace (98-02), Espace/Grand Espace IV (02-10), Kangoo/Trekka (01-09), Laguna (98-01), Laguna II (01-07), Laguna III (07-13), Megane (99-03), Megane II (02-10), Megane III/Sport (08-13), Megane/Scenic (99-00), Scenic/RX4 (99-03), Scenic/Grand Scenic II (03-09), Trafic II (01-11), Twingo II (08-14), Vel Satis (00-10), Wind (10-14)

Nissan: Kubistar X76 (03-09), Primastar (02-11)

Vauxhall/Opel: Vivaro (01-11)

Engine Codes:

1.4 16v K4J: 730, 732, 740

1.6 16v K4M: 752, 753, 760, 761, 764, 788, 812, 813, 854, 856

1.8 16v F4P: 720, 722, 760, 770, 771, 772, 773, 774, 775

2.0 16v F4R: 700, 701, 712, 713, 714, 715, 720, 722, 730, 732, 736, 738, 740, 741, 744, 746, 747, 762, 763, 764, 765, 766, 767, 770, 771, 780, 790, 791, 792, 820, 830, 832, 867

2.0 16v F4R(t): 720, 722, 764, 765, 774, 776, 784, 786, 787, 794, 795, 796, 797, 800, 802, 810, 811, 870, 872, 874, 886, 887, 896, 897

Associated Tools: See **C & D**

B



BELT

RENAULT
NISSAN
VAUX/OPEL
DACIA

B Timing Tool Kit - Renault, Nissan, Vauxhall/Opel, Dacia 1.4, 1.6, 1.8, 2.0 K4J/K4M/F4P/F4R(t) - Belt Drive

Model No. **VSE5071A**

Suitable for timing belt replacement on the 1.4, 1.6, 1.8 and 2.0 engines fitted in Renault vehicles. These engines will require the use of associated tools, Model No's. VSE5033 or VSE5734 Camshaft Sprocket Holding Tools, to loosen the camshaft sprocket bolts. Kit features camshaft setting plate which avoids the camshaft position sensor on later 1.4 and 1.6 engines.

OEM Tools:

Renault/Nissan: Mot861, Mot1054, Mot1489, Mot1496, Mot1750

Vauxhall/Opel: KM-6031, KM-6233

Applications:

Dacia: Logan/MCV (05-11)

Nissan: Kubistar X76 (03-09), Primastar X83 (02-11)

Renault: Avantime (00-03), Clio II (99-06), Clio III/Sport (05-13), Espace/Grand Espace (98-02), Espace/Grand Espace IV (02-10), Kangoo/Trekka (01-09), Kangoo II/Bebop (08-12), Laguna (98-01), Laguna II (01-07), Laguna III (07-13), Logan/MCV (05-11), Megane (99-03), Megane II (02-10), Megane III/Sport (08-15), Megane/Scenic (99-00), Modus (04-08), Modus/Grand Modus II (08-13), Scenic/RX4 (99-03), Scenic/Grand Scenic II (03-09), Scenic/Grand Scenic III (09-15), Trafic II (01-11), Twingo II/Sport (08-13), Vel Satis (00-10), Wind (10-14)

Vauxhall/Opel: Vivaro (01-11)

Engine Codes:

1.4 16v K4J: 700, 710, 711, 712, 713, 714, 715, 730, 732, 740, 750, 770, 780

1.6 16v K4M: 690, 700, 701, 704, 706, 708, 709, 710, 711, 712, 714, 716, 718, 720, 724, 730, 732, 734, 736, 740, 742, 743, 744, 745, 746, 748, 752, 753, 760, 761, 764, 766, 776, 782, 788, 790, 791, 792, 794, 800, 801, 802, 804, 812, 813, 824, 830, 831, 846, 848, 854, 856, 858, 862, 866

1.8 16v F4P: 720, 722, 760, 770, 771, 772, 773, 774, 775

2.0 16v F4R: 700, 701, 712, 713, 714, 715, 720, 722, 730, 732, 736, 738, 740, 741, 744, 746, 747, 770, 771, 780, 790, 791, 792, 820, 830, 832

2.0 16v F4R(t): 720, 722, 762, 763, 764, 765, 766, 767, 774, 776, 784, 786, 787, 794, 795, 796, 797, 800, 802, 810, 811, 832, 870, 872, 874, 876, 886, 887, 896, 897

Associated Tools: See **C & D**

Petrol 1.4, 1.6 16v - K4J/K4M

C



BELT

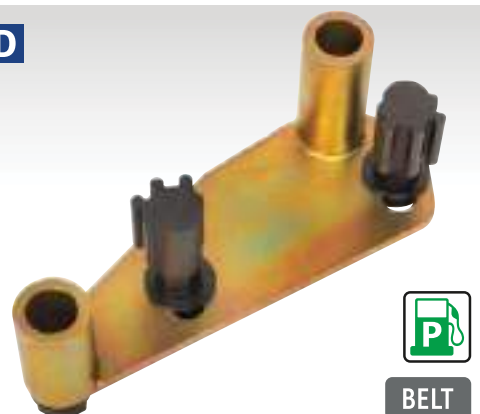
C Camshaft Sprocket Holding Tool

Model No. **VSE5734**

For all K4J/K4M codes listed above, see **A & B**.

Petrol 1.8, 2.0 16v - F4P/F4R(t)

D



BELT

D Camshaft Sprocket Locking Tool

Model No. **VSE5033**

For all F4P/F4R(t) codes listed above, see **A & B**.

E NEW

NISSAN



CHAIN

E Injection Pump Sprocket Locking Pin Nissan 2.2, 2.5 Diesel Engine

Model No. **VSE1630**

Designed to lock the timing sprocket/injection pump sprocket on Nissan 2.2, 2.5 chain driven diesel engines.



A Camshaft Locking Tool Subaru, Saab - Belt Drive Model No. VSE5055

Useful time-saving tool designed to assist with the operation when replacing the timing belt on Subaru 2.0 and 2.5 litre engines and Saab 9-2X Aero DOHC Turbo Engines. For use on hex key camshaft sprocket fixing bolts.

Applications:

Subaru: Impreza Turbo WRX (00-07), Impreza Turbo WRX Sti (01-05), Impreza WRX (05-07), Impreza WRX Sti (05-07), Forester (98-09), WRX (11-13), Baja Turbo (04-06), Legacy GT (05-10)

Saab: Saab 9-2X Aero (2005)

Engine Codes:

2.0: EJ205, EJ207
2.5: EJ255, EJ257



SUBARU
SAAB



B Crank Pulley Wrench Subaru, Toyota - Belt Drive Model No. VSE5977

Crank pulley wrench for the high torque required for loosening and tightening of the crankshaft pulley fixings. Compact flat handle design allows access to confined areas. Single wrench suitable for vehicle applications of two OEM wrenches.

OEM Tools: 499.977.100, 499.977.300

Applications:

Subaru: Forester (97-13), Impreza (00-12), Impreza WRX Sti (05-12), Impreza WRX (05-14), Legacy (99-13), Legacy Outback (98-09), Outback (07-13)

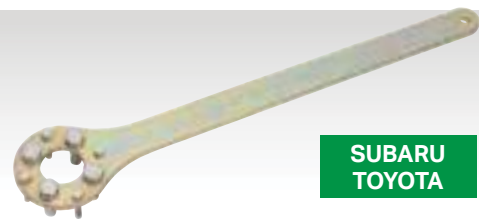
Toyota: GT86 (12-19)

Engine Codes:

Subaru:
2.0: EJ20J, EJ201, EJ202, EJ203, EJ204, EJ207
2.5: EJ251, EJ253, EJ255, EJ257

Toyota:

FA20



SUBARU
TOYOTA



C Camshaft Locking Tool Subaru DOHC - Belt Drive Model No. VSE5066

This useful time-saving tool is designed to assist with the operation when replacing the timing belt on Subaru 2.0 and 2.5 litre engines. For use on hexagonal camshaft sprocket fixing bolts.

Applications: Forester (05-09), Forester Turbo (08-13), Impreza (02-07), Legacy (05-09), Outback (09-13), WRX (00-07), WRX Turbo (00-03)

Engine Codes:

2.0: EJ204, EJ205
2.5: EJ205, EJ207, EJ255, EJ257



SUBARU



D 1/2"Sq Drive Crankshaft Turning Socket - Subaru, Saab 2.0, 2.5 Belt Drive Model No. VSE5980

Crankshaft turning socket fits over the end of the crankshaft to enable the engine to be turned with any 1/2"Sq drive breaker bar or ratchet wrench.

OEM Tool: 499.987.500

Applications:

Subaru: Impreza (93-11), Forester (98-09), Legacy (94-09), Baja (04-06), SVX (91-96)

Saab: 9-2 (05-06)

Engine Codes:

2.0: EJ20, EJ205, EJ207
2.5: EJ255, EJ257



1/2"
Sq. Drive

BELT



E Timing Tool Kit - Vauxhall/Opel, Saab - 2.0D, 2.2DTi, 2.2TiD Chain Drive Model No. VSE242

For timing 2.0D and 2.2D EcoTec chain drive diesel engines in Vauxhall/Opel and Saab vehicles. Kit includes camshaft/injection pump timing adjustment fixture. Supplied in storage case.

OEM Tools:

Saab: 83 95 394, 83 95 337, 83 95 352, 83 95 386, 83 95 394

Vauxhall/Opel/Saab: KM-927, KM-929, KM-932, KM-933

Applications:

Saab: 9-3 (98-04), 9-5 (02-06)

Vauxhall/Opel: Astra-G (98-06), Frontera-B (98-04), Omega-B (98-03), Signum (03-05), Sintra (98-99), Vectra-B (97-02), Vectra-C (02-05), Zafira-A (99-05)

Engine Codes:

2.0D DTi: X20DTH, X20DTL, Y20DTH, Y20DTL

2.2D DTi: X22DTH, Y22DTH, Y22DTR

2.2D TiD: D223L

Associated Tool: VS055 - Diesel Fuel System Priming Device (see page 447)



CHAIN

VAUX/OPEL
SAAB



F Timing Tool Kit - Vauxhall/Opel, Saab 1.9D CDTi/TiD/TTiD, 2.0D CDTi - Belt Drive Model No. VSE5886A

Suitable for timing belt replacement on Vauxhall/Opel and Saab vehicles fitted with 1.9D CDTi/TiD/TTiD or 2.0D CDTi engines. Kit contains camshaft setting tools, crankshaft locking tool and tensioner pin. Supplied in storage case.

OEM Tools: EN-46788/32 025 009, EN-46789, 32 025 008, KM-6349/87 92 335

Applications:

Vauxhall/Opel: Astra-H (04-11), Astra-J (10-15), Cascada (13-15), Insignia (08-13), Signum (04-08), Vectra-C (04-08), Zafira-B (05-12), Zafira-C Tourer (11-15)

Saab: 9-3 (04-10), 9-5 (05-10)

Engine Codes:

1.9D CDTi: Z19DT, Z19DTH, Z19DTJ, Z19DTL

1.9D TiD: Z19DT, Z19DTH

1.9D TTiD: Z19DTR

1.9D XTTiD: A19DTR, Z19DTR

2.0D CDTi/ecoFLEX: LBQ/A20DTL, LBR/A20DT, LBS/A20DTH, LBX/A20DTJ,

LBQ/A20DTR, LCD/A20DTC

2.0D TiD: LBS/A20DTH

2.0D TTiD: LBQ/A20DTR



BELT

VAUX/OPEL
SAAB

A



CHAIN

VAUX/OPEL



A Timing Tool Kit - Vauxhall/Opel 1.6CDTi - Chain Drive Model No. VSE5013

Suitable for the new generation of Vauxhall 1.6CDTi range of diesel engines. The engines vary slightly in design, the LVM range has one camshaft which is chain driven with interconnecting gears driving the second camshaft. The LVP range has direct chain drive to both camshafts. This kit contains the tooling required to set and lock both engine types.

OEM Tools: 51143, 51140, 50513, 51148

Applications:

Vauxhall: Astra J (13-18), Astra K (15-18), Cascada (13-18), GTC (15-18), Insignia (13-16), Meriva B (13-17), Mokka (14-18), Zafira C (13-19)

Engine Codes:

1.6D CDTi: LVL/B16DTH, LVL/B16DTJ, LVL/B16DTN, LVM/B16DTC, LVM/B16DTL, LVP/A16XHT, LVP/B16XHT, LWC/B16SHL

C

NEW



CHAIN



VAUX/OPEL
CHEVROLET
SUZUKI



C Timing Tool Kit, GM, Chevrolet, Suzuki 1.0, 1.2, 1.4, 1.6 - Chain Drive Model No. VS5235

Covers a wide range of Vauxhall/Opel and Chevrolet petrol engines. Includes the necessary tools for setting and locking the camshafts and crankshaft. Also includes the pins for locking the timing chain tensioner, locking tools for 1.0, 1.2, 1.4, 1.6 EcoTec/ecoFLEX (codes X and Z) chain engines, and the timing disc position gauge for the timing sensor on the inlet camshaft. Supplied in storage case with instructions and a warning tag.

OEM Tools:

GM: EN-499-78, EN-49977-100, EN-49977-200, KM-6130, KM-952, KM-953, KM-953-A, KM-954, KM-955, KM-955-1, KM-955-2

Suzuki: 09919-08310, 09919-58310, 09912-38310, 09919-58320

Applications:

Vauxhall/Opel: Agila (00-08), Agila-B (08-10), Adam (12-18), Adam Rocks (14-18), Ampera (11-16), Astra-G (98-06), Astra G Classic II (03-10), Astra-H (04-11), Astra-J (09-18), Cascada (13-18), Combo (04-12), Corsa-B (97-00), Corsa-D (06-14), Corsa-C (00-14), Corsa-E (15-18), GTC (15-18), Insignia (11-17), Meriva-A (04-10), Meriva-B (10-17), Mokka (12-16), Mokka X (16-18), Tigra-B (04-10), Zafira-C Tourer (12-18)

Chevrolet: Aveo (11-15), Cruze (11-15), Orlando (11-15), Trax (13-15), Volt (12-14)

Holden: Volt (12-14)

Cadillac: ELR (14)

Suzuki: Wagon R (05-08)

Engine Codes:

1.0: A10XEP

1.2: A12XEL, A12XER, LWD/A12XEL, L2Q/A12XEL, LWD/B12XEL

1.4: A14XEL, A14XER, LUJ/A14NET, LDD/A14XEL, LDD/A14XER, L2Z/A14XEL, LDD/B14XEJ, LDD/B14XEL, LDD/B14XER, LUJ/B14NEH, LUH/A14NEL, LUJ/A14NEL, LUJ/B14NEL, LUJ/A14NET, LUJ/B14NET, LDD, LUU

1.6: LDE/A16XER, LDE/B16XER

B



BELT

DACIA
MITSUBISHI
NISSAN
RENAULT
SUZUKI
VAUX/OPEL



B Timing Tool Kit - Renault, Nissan, Suzuki, Mitsubishi, Dacia, GM 1.5D, 1.9D, 2.2D, 2.5D - Belt Drive Model No. VSE5871A

Essential tools for timing belt replacement on Renault/Nissan 1.5D, 1.9D, 2.2D & 2.5D dCi diesel engines. Covers engine codes K9K, F9Q, G9T, G9U. These engines are also fitted in Vauxhall/Opel, Suzuki, Mitsubishi and Dacia models. Kit includes crankshaft locking pins, belt tensioner tools and camshaft setting plates.

OEM Tools:

Renault: Mot1054, Mot1430, Mot1489, Mot1534, Mot1536, Mot1537, Mot1538, Mot1543, Mot1705

Nissan: KV113B0110, KV113B0130, KV113B0360

Vauxhall/Opel: KM-6023, KM-6031, KM-6032, KM-6204, KM-6205, KM-6234

Suzuki: 09912-46510, 09919-58110, 09919-58120, 09919-76530

Dacia: Mot1430, Mot1489

Mitsubishi: MB996048

Applications:

Renault: Clio II/Clio Campus/Clio Storia (01-11), Clio III (05-11), Espace/Grand Espace (00-02), Espace/Grand Espace IV (02-09), Fluence (09-15), Kangoo (00-09), Kangoo Trekka (01-05), Kangoo II/Kangoo BeBop (08-13), Laguna (99-01), Laguna II (01-07), Laguna III (07-14), Logan/Logan MCV (05-11), Master II (01-10), Megane (99-03), Megane II (02-10), Megane III (08-12), Modus (04-08), Modus/Grand Modus II (08-11), Scenic/RX4 (99-03), Scenic/Grand Scenic II (03-09), Scenic/Grand Scenic III (09-15), Thalia (07-08), Trafic II (01-12), Twingo II (07-14), Vel Satis (02-09)

Nissan: Cube Z12 (08-11), Interstar X70 (02-11), Juke F15 (10-12), Kubistar X76 (03-09), Micra K12 (03-10), Note E11 (06-12), NV200 M20 (09-12), Primastar X83 (02-12), Primera P12 (03-07), Pulsar (14-15), Qashqai/+2 J10 (10-14), Qashqai J11 (14-15), Tiida C11 (07-11)

Vauxhall/Opel: Movano-A (00-10), Vivaro (01-12)

Suzuki: Grand Vitara (05-15), Jimny (03-11)

Dacia: Duster (10-14), Logan/MCV/Express/Pick Up (05-13), Sandero (08-15)

Mitsubishi: Carisma (01-05)

Engine Codes:

1.5D dCi K9K: 612, 636, 700, 702, 704, 706, 710, 712, 714, 716, 718, 722, 724, 728, 729, 732, 740, 750, 752, 760, 762, 764, 766, 768, 772, 780, 782, 790, 792, 794, 796, 800, 802, 804, 806, 808, 830, 832, 834, 836, 837, 884, 892, 894, 896, 898

1.5D DDiS K9K: 262, 266, 299

1.9D DDiS: F9Q B2

1.9D Di-D: F9Q 1, F9Q 2

1.9D dCi/CDTi F9Q: 650, 660, 664, 670, 674, 680, 690, 718, 732, 733, 740, 748, 750, 751, 752, 754, 758, 759, 760, 762, W772, 774, 775, 790, 800, 803, 804, 808, 812, 814, 816, 818, 820, 826, 870, 872

2.2D dCi/CDTi G9T: 600, 605, 606, 607, 642, 700, 702, 703, 706, 707, 710, 720, 722, F722, 742, 743, 750, 772

2.5D dCi/CDTi G9U: 630, 632, 650, A720, 724, 726, 730, 750, 754

D

BELT

D Belt Holder Model No. VSE880

Belt holder with magnetic base. Useful time-saving tool for holding any type of belt onto a pulley during replacement of the belt.



**A Front Pulley & Flywheel Locking Tool Set - Chain Drive****Model No. VSE5032**

Suitable for a wide range of petrol and diesel engines fitted to Renault and Nissan vehicles. Contains a useful sump/cover separation tool.

OEM Tools: Mot1431, Mot1716, Mot2019, Mot1789, Mot919-02

Applications:

Nissan: Primastar (06-15), Qashqai/Qashqai+2 (07-14), X-Trail (07-14), Navara (15-16), NV400 (11-16)

Renault: Espace V (15-16), Clio (06-16), Fluence (09-15), Laguna (05-15), Latitude (10-15), Megane (06-15), Scenic/Grand Scenic (06-15), Espace/Grand Espace IV (02-15), Koleos (08-16), Trafic II (07-15), Vel Satis (00-10), Master III (10-16)

Engine Codes: See website for full list of engine codes, www.sealey.co.uk

**B Timing Tool Kit - GM, Saab, Chevrolet EcoTec 1.4, 1.6, 1.8, 2.0, 2.2 16v - Belt Drive****Model No. VS1700**

Designed to fit between camshaft sprockets to maintain camshaft timing position. Essential tools for timing belt replacement applications. Supplied as a pair.

OEM Tools:**Vauxhall/Opel/Saab:**

KM-852, KM-853

Chevrolet:

EN-852

Applications:**Vauxhall/Opel:**

Astra-F (93-98), Astra-G (98-06), Astra-G Classic II (03-04), Astra-H (04-11), Kadett-E (88-91), Cavalier (90-95), Calibra (94-98), Combo-C (05-08), Corsa-B (94-00), Corsa-C (00-07), Frontera-A (95-98), Frontera-B (98-04), Meriva-A (03-10), Omega-B (94-03), Signum (03-07), Sintra (96-99), Tigra (95-00), Tigra-B (04-10), Vectra-B (95-02), Vectra-C (02-08), VX220/Speedster (03-06), Zafira-A (99-05), Zafira-B (05-13)

Chevrolet:

Cruze (09-11)

Saab:

9-3 (03-10)

Engine Codes:**1.4 16v:**

X14XE

1.6 16v:

Z16SE

1.6 BiFuel CNG:

Z16YNG

1.6 ecoFLEX CNG:

Z16YNG

1.8 16v:

C18XE, C18XEL, X18XE, X18XE1, Z18XE, Z18XEL

1.8 Dual Fuel:

Z18XE

1.8i:

Z18XE

18 16v:

Z18XE

2.0 16v:

C20SEL, C20XE, X20XEV

2.0 OPC/VXR:

X20XER, Z20LEH

2.0 OPC/ZXR:

Z20LEH

2.0 Turbo:

Z20LEH, Z20LEL, Z20LER, Z20LET

2.2 16v:

X22SE, X22XE, Y22SE, Y22XE, Z22XE

**D Timing Tool Kit - Alfa Romeo, Fiat, GM, Saab, Chevrolet 1.4, 1.6, 1.8 Twinport - Belt Drive****Model No. VSE5006**

Comprises camshaft setting tools and belt tensioner locking pins. Suitable for timing applications on all 1.4, 1.6 and 1.8 Twinport petrol engines with belt drive.

OEM Tools:

KM-911, KM-6625/EN-6625/2.000.012.800,

KM-6340/EN-6340/2.000.012.100, KM-6349/KM-6130/EN-6349, KM-6333/EN-6333,

KM-6628-A/2.000.012.000

Applications:**Alfa Romeo:**

159 (05-10)

Chevrolet:

Aveo (08-14), Cruze (09-15), Orlando (11-15)

Fiat:

Croma (06-11), Stilo (05-08)

Saab:

9-5 (10-12)

Vauxhall/Opel:

Astra-G (03-10), Astra-H (04-13), Astra-J (09-15), Corsa-D (07-14), Insignia (08-13), Meriva-A (06-10), Mokka (12-15), Signum (06-08), Vectra-C (06-08), Zafira-B (05-14), Zafira-C Tourer (11-15)

Engine Codes:**1.4 16v:**

G14D

1.6:

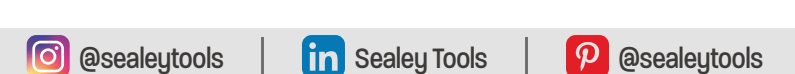
A16LEL, A16LER, A16LET, A16XER, LDE/A16LER, LDE/A16XER, LLU/A16LET, Z16LEL, Z16LER, Z16LET, Z16XE1, Z16XEP, Z16XER

1.6 ecoFLEX CNG:

A16XNT, LGE/A16XNT, Z16XNT

1.8:

2HO/A18XEL, 2HO/A18XER, A18XER, Z18XER, 939A4.000

**C Timing Tool Kit - Alfa Romeo, Fiat, Ford, GM, Lancia, Suzuki 1.3D JTD(M)/TDCi/DDiS/CDTi - Chain Drive****Model No. VSE5881A**

Suitable for timing the camshaft and crankshaft, on chain drive 1.3 diesel engines. Set also includes a tensioner locking pin. Supplied in storage case.

OEM Tools:**Alfa Romeo/Fiat/Lancia:**

1.871.00.900

Citroen:

104-A, 0198-J

Ford:

303-1472

Peugeot:

104-A, 0198-J

Suzuki:

09912-38300, 09916-98610, 09917-68610

Vauxhall/Opel:

EN-46781, EN-46785, KM-955

Applications:**Alfa Romeo:**

MiTo (08-16)

Citroen:

Nemo (10-16)

Fiat:

500 (07-16), Doblo/Cargo (04-10), Fiorino (08-16), Grande Punto (05-11), Idea (04-12), Linea (07-11), Panda (03-16), Punto (03-11), Punto Evo (09-14), Qubo (08-16)

Ford:

Ka (09-15)

Lancia:

Musa (04-13), Ypsilon (03-15)

Peugeot:

Bipper (10-16)

Suzuki:

Ignis (03-09), Splash (08-11), Swift (06-14), Wagon R+ (03-08)

Vauxhall/Opel:

Agila (03-08), Agila-B (08-10), Astra-H (04-11), Astra-J (09-15), Combo-C (03-12), Corsa-C (03-12), Corsa-D (06-14), Meriva-A (04-10), Meriva-B (10-15), Tigra-B (04-10)

Engine Codes:**Alfa Romeo JTD Multijet:**

199A3.000, 199B1.000

Citroen:

F13DTE5 (FHZ)

Fiat JTD Multijet:

169A1.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 223A9.000

Ford TDCi:

169A1.000(FD4)

Lancia JTD Multijet:

188A9.000, 199A3.000, 199B1.000

Peugeot:

(FHZ)F13DTE5

Suzuki DDiS:

D13A, Z13DT, Z13DTJ, Z13DTJ Eco

Vauxhall/Opel CDTi:

A13DTC, A13DTE, A13DTR, D13A, LDV/A13DTC, LSF/A13DTE, Y13DT, Y13DTH, Z13DT, Z13DTI, Z13DTH, Z13DTJ, Z13DTR



A Timing Tool Kit - Vauxhall/Opel, Suzuki 1.0, 1.2, 1.4 - Chain Drive
Model No. VSE243

Includes locking tools for 1.0, 1.2, 1.4 EcoTec/ecoFLEX (codes X and Z) chain engines. Also includes the timing disc position gauge for the timing sensor on the inlet camshaft. Supplied in storage case.

OEM Tools:	KM-952/09912-38310, KM-953/09919-58310, KM-954/09919-08310, KM-955/09919-58320, KM-6130
Applications:	
Suzuki:	Wagon R (05-08)
Vauxhall/Opel:	Agila (00-08), Astra-G (98-06), Astra G Classic II (03-10), Astra-H (04-11), Combo (04-12), Corsa-B (97-00), Corsa-C (00-07), Corsa-D (06-12), Meriva-A (04-10), Tigra-B (04-10)
Engine Codes:	
1.0 12v:	X10XE, Z10XE, Z10XEP
1.2 16v:	X12XE, Z12XE, Z12XEP
1.4 16v/ecoFLEX:	Z14XEL, Z14XEP



C Timing Tool Kit - GM, Saab, Chevrolet - EcoTec 1.4, 1.6, 1.8 16v Belt Drive
Model No. VSE5005

Set includes camshaft locking tool, designed to fit between camshaft sprockets to retain timing position on 1.4, 1.6 and later 1.8 16v EcoTec engines. Also includes flywheel holding tool (for crankshaft pulley removal) and auxiliary belt tensioner locking pin, which are required during timing belt replacement on these engines.

OEM Tools:	KM-852/EN-852, KM-911, KM-6130
Applications:	
Chevrolet:	Cruze (09-11)
Saab:	9-3 (02-12)
Vauxhall/Opel:	Astra-F (95-98), Astra-G (98-06), Astra-H (04-07), Combo-C (05-12), Corsa-B (94-00), Corsa-C (00-07), Meriva-A (03-10), Signum (03-07), Tigra (95-00), Tigra-B (04-10), Vectra-B (95-02), Vectra-C (02-08), Zafira-A (99-05), Zafira-B (06-13)
Engine Codes:	
1.4 16v:	X14XE, Z14XE
1.6 16v:	LXT, X16SEJ, X16XE, X16XEL, Y16XE, Z16YNG
1.6 BiFuel CNG/ecoFLEX CNG:	Z16YNG
1.8 16v:	X18XE, X18XE1, Z18XE, Z18XEL
1.8 Dual Fuel:	Z18XE



B Timing Tool Kit - Vauxhall/Opel, Chevrolet 1.0, 1.2, 1.4, 1.6 Chain Drive
Model No. VSE5007

Covers a wide range of Vauxhall/Opel and Chevrolet petrol engines. Includes the necessary tools for setting and locking the camshafts and crankshaft, and pins for locking the timing chain tensioner. Supplied in a storage case with instructions and a warning tag.

OEM Tools:	EN-49977-100, KM-953-A, KM-952, EN-499-78, EN-49977-200, KM-955-1, KM-955-2
Applications:	
Vauxhall/Opel:	Agila (00-03), Agila-B (08-10), Adam (12-19), Adam Rocks (14-19), Ampera (11-16), Astra-J (09-18), Cascada (13-19), Corsa-D (06-14), Corsa-C (00-14), Corsa-E (15-20), GTC (15-20), Insignia (11-17), Meriva-B (10-17), Mokka (12-16), Mokka X (16-20), Zafira-C Tourer (12-18)
Chevrolet:	Aveo (11-15), Cruze (11-15), Orlando (11-15), Trax (13-15), Volt (12-14)
Holden:	Volt (12-14)
Cadillac:	ELR (2014)
Engine Codes:	
1.0/1.0 ecoFLEX:	A10XEP
1.2/1.2 ecoFLEX:	A12XEL, A12XER, LWD/A12XEL, L2Q/A12XEL, LWD/B12XEL
1.4/1.4 ecoFLEX:	A14XER, LUJ/A14NET, LDD/A14XEL, LDD/A14XER, LDD/A14XEL, A14XEL, L2Z/A14XEL, LDD/B14XEJ, LDD/B14XEL, LDD/B14XER, LUJ/B14NEH, LUJ/B14NEL, LUJ/B14NET, LDD/D14XER, LDD/D14XEL, LUJ/D14NET
1.4 Turbo:	LUJ/A14NEL, LUJ/A14NET, LUJ/B14NET
1.6:	LDE/A16XER, LDE/B16XER



D Timing Tool Kit - Vauxhall/Opel 1.0, 1.4 - Chain Drive
Model No. VSE5067

Contains the essential tools required to set the camshafts into their timing position. Suitable for turbo and non-turbo 2014on engines.

Applications:	
Vauxhall/Opel:	Adam (14-18), Adam Rocks (14-18), Astra K (15-18), Corsa E (15-18), Mokka (16-18)
Engine Codes:	
1.0:	LE1/B10XFL, LE1/B10XFF, LE1/B10XHL
1.4:	LV7/B14XE, LE2/B14XFL, LE2/B14XFT



A Timing Tool Kit
Alfa Romeo, Fiat, Saab,
Chevrolet, GM 1.4, 1.6, 1.8 16v - Belt Drive
Model No. **VSE131**

Comprises camshaft setting tool and belt tensioner locking pin. Suitable for engine timing applications on all 1.4, 1.6 and 1.8 Twinport engines with belt drive.

OEM Tools:

Alfa Romeo/Fiat:	2000012100
Chevrolet:	EN-6340, EN-6333
Saab:	EN-6340, EN-6333
Vauxhall/Opel:	KM-6340/EN-6340, KM-6333/EN-6333

Applications:

Alfa Romeo:	159 (05-10)
Chevrolet:	Aveo (08-11), Cruze (09-12), Orlando (11-15), Trax (13-15)
Fiat:	Croma (06-11), Stilo (05-08)
Saab:	9-5 (10-12)
Vauxhall/Opel:	Astra-G (03-11), Astra-G Classic II (03-10), Astra-H (04-12), Astra-H Classic III (10-13), Astra-J (09-15), Corsa-D (07-14), Insignia (08-15), Meriva-A (06-10), Mokka (12-15), Signum (06-08), Vectra-C (06-08), Zafira-B (05-12)

Engine Codes:

1.4 16v:	G14D
1.6 16v:	192B3.000, A16LEL, A16LER, A16LET, A16XER, LDE, LDE/A16XER, LDV, LLU/A16LET, LXV(F16D4), Z16LEL, Z16LER, Z16LET, Z16XE1, Z16XEP, Z16XER
1.6 16v ecoFLEX:	A16XER, Z16XER
1.6 16v ecoFLEX CNG:	A16XNT, Z16XNT
1.8 16v:	2HO/A18XER, 2HO/Z18XER, 939A4.000, A18XER, Z18XER
1.8 MPI:	939A4.000



C Crankshaft Holding Tool Vauxhall/Opel
Model No. **VSE5015**

Crankshaft pulley holding tool suitable for a wide range of Vauxhall/Opel and some Chevrolet models. Designed to hold the crankshaft pulley whilst removing the crankshaft fixing bolts.



E Crankshaft Holding Wrench
Vauxhall/Opel 1.6D - Chain Drive
Model No. **VS5254**

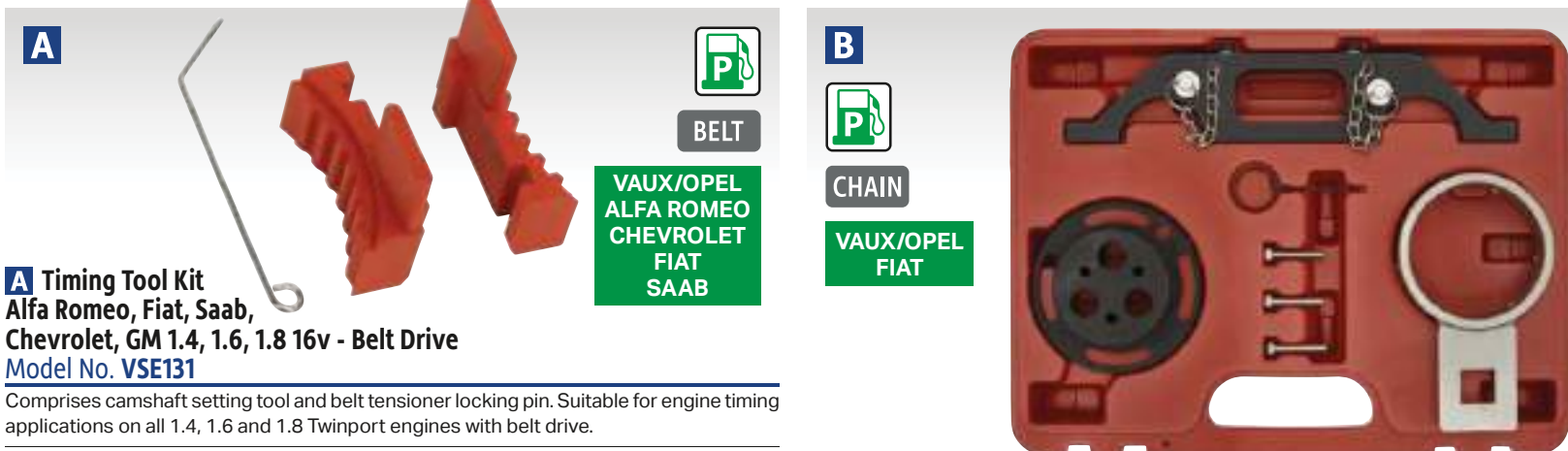
Crankshaft pulley holding wrench. Suitable for Vauxhall/Opel 1.6 diesel engines.

Applications:

Vauxhall/Opel:	Astra J (13-18), Astra K (15-18), GTC (15-18), Meriva B (13-17), Mokka (16-18), Mokka X (16-18), Insignia-B (15-17), Zafira-C (13-18)
----------------	---

Engine Codes:

1.6D:	LVM/B16DTC, LWQ/B16DTE, LVL/B16DTH, LVL/B16DTJ, LVM/B16DTL, LVL/B16DTN, LVK/B16DTR, LWV/B16DTU
-------	--



B Timing Tool & Coolant Pump Kit - Fiat, Vauxhall/Opel 2.2 16v - Chain Drive
Model No. **VSE5875**

Consists of camshaft and tensioner locking tools, coolant pump sprocket retainer and crankshaft pulley holder for 2.2 chain drive Vauxhall/Opel engines, these engines are also fitted in the Fiat Croma. Essential tool for engine timing when carrying out cylinder head work and coolant pump replacement.

OEM Tools:	KM-6148/KM-6077/2.000.000.900, KM-J-43651, KM-956-1/KM-J-38122-A/2.000.001.000
-------------------	--

Applications:

Vauxhall/Opel:	Astra-G (00-06), Astra-H (06-11), Signum (03-08), Vectra-B (00-02), Vectra-C (02-08), VX220/Speedster (00-06), Zafira-A (00-05), Zafira-B (05-12)
----------------	---

Fiat:

Croma (05-09)

Engine Codes:

2.2 16v:	Fiat; 194A1.000, Vauxhall/Opel; Z22SE, Z22YH
----------	--



D Timing Tool Kit - Saab, Vauxhall/Opel 2.5, 2.6, 3.0, 3.2 V6 - Belt Drive
Model No. **VSE130**

Essential setting/locking tools for timing belt replacement on V6 2.5-3.2 multi-valve engines in Vauxhall/Opel and Saab models. Kit includes belt guide roller adjuster/socket required during the belt tensioning procedure. Supplied in storage case.

OEM Tools:	KM-800-1, KM-800-2, KM-800-10, KM-800-20, KM-800-30, MKM-6038, 83 95 006
-------------------	--

Applications:

Saab:	900 (93-98), 9000 (95-97), 9-5 (98-03)
Vauxhall/Opel:	Antara (06-10), Calibra (93-98), Cavalier/Vectra-A (93-95), Omega-B (94-03), Signum (03-05), Sintra (96-99), Vectra-B (95-02), Vectra-C (02-05)

Engine Codes:

2.5 V6:	Saab; B2581, Vauxhall/Opel; C25XE, X25XE
2.6 V6:	Vauxhall/Opel; Y26SE
3.0 V6:	Saab; B308E, B308i, Vauxhall/Opel; X30XE
3.2 V6:	Vauxhall/Opel; Y32SE, Z32SE

A NEW



BELT



Made in Great Britain

VAUX/OPEL

A Timing Tool Kit - GM, EcoTec/EcoFLEX 1.4-2.2 - Belt Drive
Model No. VS4620

Timing tool kit suitable for GM 1.4-2.2 EcoTec/EcoFLEX petrol engines. Supplied with instructions in a convenient foam storage tray.

B NEW



BELT



VAUX/OPEL

B Timing Tool Kit - Vauxhall/Opel 2.0CDTi - Belt Drive
Model No. VSE5740

Suitable for Vauxhall/Opel 2.0 CDTi belt drive diesel engines. Essential tools required when replacing the camshaft drive belt. Contains a flywheel locking tool required on vehicles fitted with automatic transmission. Supplied in a storage case with full instructions.

C NEW



CHAIN



VAUX/OPEL

C Timing Tool Kit - GM 1.6 CDTi - Chain Drive
Model No. VSE5020

Suitable for 1.6 CDTi engine for timing chain removal and replacement of the timing chain. Includes the camshaft sprocket support bracket that will be required if removing the camshaft is required. Supplied in a storage case with comprehensive instructions.

OEM Tools:

Vauxhall/Opel: EN6349, EN51143, EN51440, EN50513, EN51188

Applications:

Vauxhall/Opel: Astra J (13-18), Astra K, (15-19), GTC (15-18), Insignia A (15-17), Meriva B (13-17), Mokka (14-16), Mokka X (16-20), Zafira C Tourer (13-19)

Engine Codes:

1.6 CDTi: B16DTC, B16DTE, B16DTH, B16DTJ, B16DTL, B16DTN, B16DTR, B16DTU

E Timing Tool Kit - Chevrolet, Vauxhall/Opel 2.0D - Belt Drive
Model No. VSE5009

Designed for Vauxhall/Opel/Chevrolet 2.0D common rail diesel engine. Locks the engine in the correct position whilst changing the timing belt on the SOHC 16v engine range. Supplied in storage case with instructions and warning tag.

OEM Tools:

EN-48245, EN48246

Applications:

Chevrolet: Captiva (07-11), Cruze (09-11), Epica (06-11), Lacetti (06-10) Nubira (07-10)

Vauxhall: Antara (07-11)

D NEW



CHAIN



VAUX/OPEL

D Timing Tool Kit Chain in Cylinder Head - Vauxhall/Opel 2.0CTDi Chain Drive
Model No. VSE5741

For the replacement of the timing chain within the cylinder head. Ensures the camshafts are locked into their timed position during timing chain replacement.

E NEW



BELT

CHEVROLET
VAUX/OPEL



A Timing Tool Kit - VAG 2.4/2.5D SDi/TDi/TDiCR - Belt Drive Model No. VSE5559

Specialised kit for timing belt replacement of VAG vans with 2.4/2.5D diesels, including the latest common rail engines. Kit includes crankshaft pulley holding tool, camshaft setting plate, injection pump and crankshaft locking pins and tensioner adjuster.

OEM Tools: T10025/3248/3419, T50009, 2064, 2065A, 3355

Applications:

VW: Crafter (06-13), LT (96-06), Transporter (90-03)

Engine Codes:

2.4D: AAB, AJA

2.5D SDi: AGX

2.5D TDi: ACV, AHD, AHY, AJT, ANJ, APA, AUF, AVR, AXG, AXL, AYC, AYY, BBE, BBF

2.5D TDi CR: BJJ, BJK, BJL, BJM

2.5D BlueTDi CR: CEBA, CEBB, CECA, CECB



C Timing Tool Kit - VAG 1.4D, 1.6D, 2.0D - Belt Drive Model No. VS5170

Covers the new generation 3 and 4-cylinder common rail diesel engines. Includes the tools required for setting the camshaft drive gears within the cylinder head.

OEM Tools: T10051, T10060A, T10264, T10265, T10409, T10490, T10492, VAG3359

Applications:

Audi: A1 (15-18), A1 Sportback (15-18), A3 (09-18), A3 Cabriolet (14-17), A4 (13-16), A4 Quattro (13-15), A4 Allroad (13-16), A5 (13-15), A5 Coupe(13-16), A5 Cabriolet (13-17), A5 Sportback (13-17), A6 (13-18), A6 Quattro (15-18), Q3 (11-18), Q5 (13-17)

Seat: Alhambra (10-18), Ibiza (15-17), Leon (12-17), Leon ST (13-18), Toledo (15-18)

Skoda: Fabia III (14-18), Octavia (13-15), Octavia III (15-18), Rapid (15-17), Superb III (15-18)

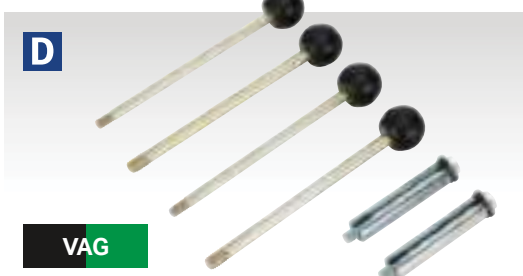
VW: CC (12-17), Golf VI (09-13), Golf VII (12-17), Golf VII Estate (13-17), Golf VII SV/Sportsvan (14-17), Passat (11-18), Passat CC (10-12), Polo (14-18), Scirocco (14-18), Sharan (11-17), Tiguan (10-16), Transporter T6 (15-19)

Engine Codes:

1.4D TDi: CUSA, CUSB, CUTA

1.6D TDi: CLHA, CLHB, CRKA, CRKB, CXMA, CXXA, CXXB

2.0D TDi: CFFA, CKFB, CKFC, CNHA, CNHC, CRBC, CRBD, CRFC, CRLB, CRLC, CRVA, CRVC, CSUA, CUNA, CUPA, CUVA, CUVC, CUWA, DFLA



D Service Position Front End Support Guide Set - VAG Model No. VSE5852

Suitable for extending the front panel of the vehicle to provide increased space in engine compartment for carrying out various service applications. These guides support the front end when it is extended out to "Service Position", which, on a number of models, is required as part of the timing belt replacement procedure.

OEM Tools: 3369, 3411, T10093, T20070, T30092

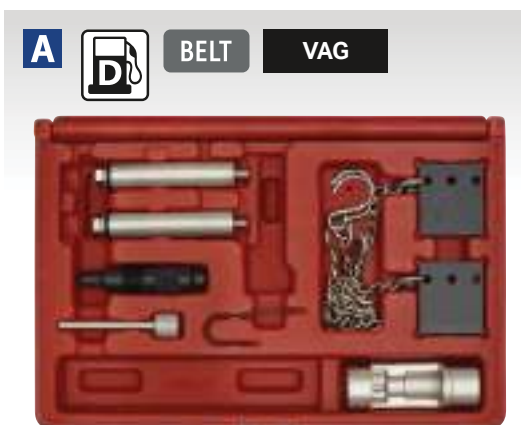
Guide Sizes: M8 x 1.25mm Thread - Ø8mm, M10 x 1.5mm Thread - Ø10mm, M8 x 1.25mm Thread - Ø17mm

Applications:

Audi: A4, A5, A6, A8, Q5

Skoda: Superb

VW: Passat



A Timing Tool Kit - VAG 2.5D TDi V6 Belt Drive

Model No. **VSE2351**

Suitable for the VAG 2.5 V6 diesel engines first introduced in 1997. Includes front end support guides, crankshaft locking pin, camshaft setting plates, injection pump locking pin, tensioner socket and tensioner locking pin.

OEM Tools: 3078, 3242, 3359, 3369, 3458, T30052, T30092, T30094, T40011

Applications:

Audi: A4 (97-09), A6 (97-05), A6 Allroad (00-05), A8 (97-02)

Skoda: Superb (02-08)

VW: Passat (98-05)

Engine Codes:

2.5D TDi V6: AFB, AKE, AKN, AYM, BAU, BCZ, BDG, BDH, BFC

Associated Tool: VSE5959 - Camshaft Sprocket Remover - VAG 1.9, 2.4, 2.5, 2.7, 2.8, 3.7, 4.2 - Belt Drive (see page 431)



D Timing Tool Kit - VAG, Ford 1.2D, 1.4D, 1.9D TDi Pumpe Duse - Belt Drive

Model No. **VSE2356**

For VAG 1.2D, 1.4D & 1.9D TDi PD (Pumpe Duse) engines with Hydraulic Belt Tensioner. Kit includes crankshaft locking tool (round gears), plus camshaft and tensioner locking pins.

OEM Tools:

Ford: 310-084/23-058, 310-085/23-059

VAG: 3359/T20102/MP1-301, T10008, T10050

Applications:

Audi: A2 (01-06), A3 (01-03), A4 (99-04), A6 (98-05)

Ford: Galaxy (99-06)

Seat: Alhambra (99-10), Arosa (99-05), Leon (00-05), Toledo (00-05)

Skoda: Fabia (00-01), Fabia II (07-10), Octavia (00-06), Octavia Tour (05-10), Superb (02-08), Roomster (06-07)

VW: Beetle (00-11), Bora (98-02), Golf (98-12), Lupo (99-05), Passat (98-02), Polo (99-02), Sharan (99-10)

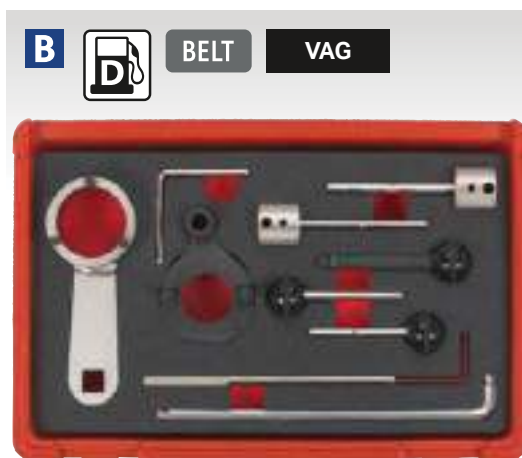
Engine Codes:

1.2D TDi PD: ANY, AYZ

1.4D TDi PD: AMF, ATL, BHC

1.9D TDi PD: AJM, ANU, ARL, ASZ, ATD, ATJ, AUY, AVB, AVF, AWX, AXR, BSW, BTB, BVK

Associated Tools: VSE5852 - Service Position Front End Support Guide Set - VAG (see page 426), VSE5755 - Tensioner Set - VAG - Belt Drive (see page 431)



B Timing Tool Kit - VAG 1.4D, 1.6D, 2.0D Common Rail - Belt Drive

Model No. **VSE6281**

Covers the new generation 3 and 4-cylinder common rail diesel engines. Includes the tools required for setting the camshaft drive gears within the cylinder head.

OEM Tools: T10490, T10492, T10051, 3359, T10060, T10264, T10265

Applications:

Audi: A1 (15-17), A3 (09-16), A3 Sportback (09-16), A3 Cabriolet (09-16), A3 Saloon (13-16), A4 (13-15), A4 Allroad (13-15), A4 Quattro (13-15), A5 (13-15), A5 Coupe (13-17), A5 Cabriolet (13-17), A5 Sportback (13-17), A6 (11-17), Q3 (13-15), Q5 (13-15), TT (14-17)

Seat: Alhambra (10-17), Leon (12-17), Leon ST (13-17)

Skoda: Octavia III (13-17)

VW: CC (15-17), Golf VI (09-13), Golf VII (12-17), Golf VII Estate (13-17), Golf Alltrack (14-17), Golf SV/ Sportsvan (14-17), Passat (11-17), Passat Alltrack (15-17), Sharan (11-17), Tiguan (10-15), Transporter T6 (15-19)

Engine Codes:

1.4D TDi: CUSA, CUSB, CUTA

1.6D TDi: CXMA, CLHA, CRKB, CLHB, CXXB, CRKA

2.0D TDi: CFFA, CRBC, CRBD, CRFA, CRFC, CRLB, CRLC, CUNA, CNHA, CNHC, CSUA, CSUD, CUVA, CUVC, DFLA, DFLD, DFMA, CKFB, CRKB, CRMB, CKFC, CRVA, CRVC, CUPA



C Timing Tool Kit - VAG 1.4D, 1.6D, 2.0D Common Rail - Belt Drive

Model No. **VSE2090**

Covers the new generation 3 and 4-cylinder common rail diesel engines. Includes the tools required for setting the camshaft drive gears within the cylinder head.

OEM Tools: T10490, T10492

Applications:

Audi: A1 (15-18), A1 Sportback (15-18), A3 (09-17), A3 Sportback (09-18), A3 Saloon (12-18), A3 Cabriolet (09-18), A4 (13-15), A4 Quattro (13-15), A4 Allroad (13-16), A5 (14-17), A5 Sportback (13-17), A5 Coupe (13-16), A5 Cabriolet (13-17), A6 (13-17), TT (14-18), Q3 (11-18), Q5 (13-17)

Seat: Alhambra (10-18), Ibiza (15-17), Leon (12-18), Leon ST (13-18), Toledo (15-18)

Skoda: Fabia III (14-18), Fabia III Estate (14-18), Rapid (15-18), Rapid Spaceback (15-18), Octavia III (13-18), Superb III (15-20)

VW: CC (12-17), Golf VI (09-13), Golf VII (12-17), Golf VII Estate (13-17), Golf VII SV/ Sportsvan (14-17), Passat (11-18), Passat CC (10-12), Polo (14-18), Sharan (11-18), Scirocco (14-18), Tiguan (10-16), Touran (15-18), Transporter T6 (15-19)

Engine Codes:

1.4D: CUSA, CUSB, CUTA

1.6D: CLHA, CLHB, CRKA, CRKB, CXMA, CXXA, CXXB

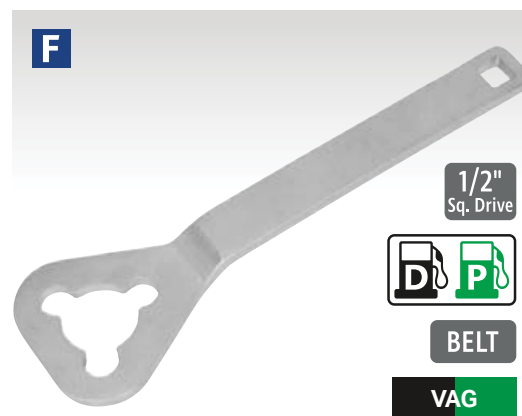
2.0D: CFFA, CKFB, CKFC, CNHC, CNHA, CRBD, CRBC, CRFC, CRLB, CRLC, CRVA, CRVC, CSUA, CUNA, CUVC, CUWA, DFLA



E Timing Tool Kit - 1.2D, 1.4D, 1.6D, 2.0D VAG, Ford & Mitsubishi - Belt Drive

Model No. **VSE2092**

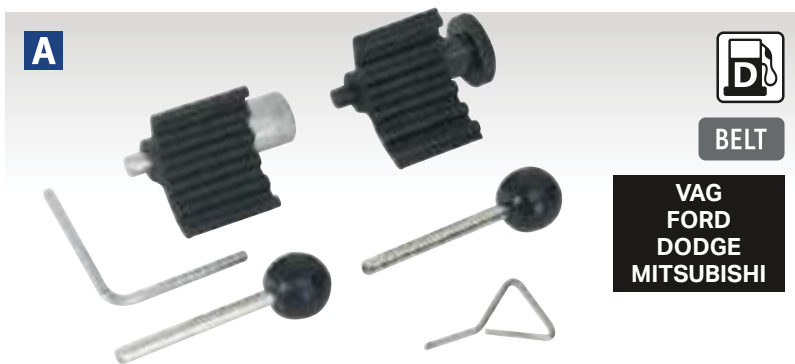
Master timing tool kit for a wide range of VAG, Ford and Mitsubishi diesel engines. Suitable for 3 and 4-cylinder belt drive engines. Includes oil pump and belt tensioner locking pins. Supplied in a storage case with instructions and a warning tag. See www.sealey.co.uk for full list of engine codes and applications.



F Water Pump Reaction Wrench - VAG Belt Drive

Model No. **VSE4977**

Water pump reaction wrench suitable for VAG vehicles with three bolt water pump pulleys. Holds the pulley to assist with the removal of the fixing bolts. Handle includes 1/2" Sq drive to enable an extension to be fitted if required.



A Timing Tool Kit - VAG, Ford, Dodge, Mitsubishi 1.2D, 1.6D, 1.9D, 2.0D TDi Common Rail - Belt Drive

Model No. **VSE2358**

For VAG 1.4D, 1.9D, 2.0D TDi PD (Pumpe Duse) and 1.2D, 1.6D, 2.0D CR (Common Rail) engines with Mechanical (Friction Dampened) Belt Tensioner. Kit includes crankshaft locking tools (oval and round gears), plus camshaft and tensioner locking pins.

OEM Tools:

Dodge: 9882, 9883

Ford: 310-085/23-059, 303-1054

Mitsubishi: MB995206, MB995208, MB995209

VAG: T10100, T10050, 3359/T20102, T10115, T10060A/T40098, T20167

Applications:

Audi: A1 (10-15), A2

(00-06), A3 (01-15), A4 (01-16), A5 (09-16), A6 05-15), TT (08-14), Q3 (11-15), Q5 09-16)

Dodge: Calibre (06-11), Journey (08-11)

Ford: Galaxy (02-06)

Mitsubishi: Lancer (07-10), Grandis (05-10), Outlander (07-10)

Seat: Alhambra (99-15), Altea/Altea XL (04-15),

Arosa (99-05), Cordoba (02-09), Exeo (09-16), Ibiza (02-15), Leon (05-13), Toledo (03-15)

Skoda: Fabia, (03-07), Fabia II (07-15), Octavia (02-10), Octavia II (04-13), Praktik

(07-15), Rapid (12-15), Roomster (06-15), Superb (02-08), Superb II (08-15), Yeti (09-14)

VW: Amarok (10-16), Beetle (02-15), Bora (02-06), Caddy/Caddy

Maxi (03-15), CC (13-15), EOS (06-14), Fox (05-11), Golf (02-15), Golf Plus (05-14), Jetta

(02-15), Lupo (99-05), Passat (02-15), Passat CC (08-15), Polo (02-14), Scirocco (08-12),

Sharon (02-15), Touran (03-15), Tiguan (07-15), Transporter (03-19)

Engine Codes (Common Rail):

1.2D TDi CR: CFWA

1.4D TDi PD: AMF, BAY, BMS, BNM, BNV, BWB

1.6D TDi CR: CAYA, CAYB, CAYC, CAYD, CAYE, CLNA

1.9D TDi PD: AJM, ANU, ARL, ASZ, ATD, AUY, AVB, AVF, AVQ, AWW, AXB, AXC, AXR, BJB,

BKC, BLS, BLT, BMT, BPZ, BRM, BRR, BRS, BRU, BSU, BSV, BSW, BTB, BVK, BXE, BXF, BXJ

2.0D TDi CR/TDi PD: AZV, BDJ, BDK, BEW, BGW, BHW, BKD, BKP, BKQ,

BLB, BMA, BMM, BMN, BMP, BMR, BNA, BPW, BRA, BRC, BRD, BRE, BRF, BRT, BSS, BST,

BSY, BUY, BUZ, BVA, BVE, BVF, BVG, BVH, BWV, CAAA, CAAB, CAAC, CAAD, CAEE,

CAGA, CAGB, CAGC, CAHA, CAHB, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC,

CBEA, CCHA, CCHB, CDBA, CDCA, CEGA, CFCA, CFFA, CFFB, CFFD, CFFE, CFGB, CFGC,

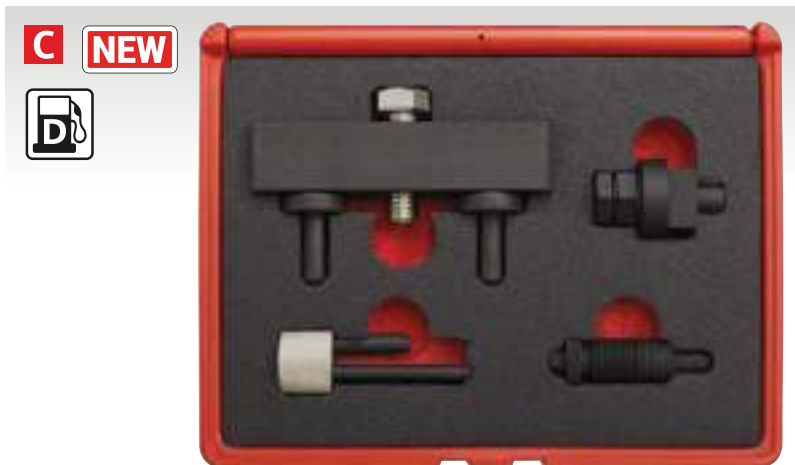
CFHA, CFHB, CFHC, CFHD, CFHE, CFHF, CFJA, CGLA, CGLB, CGLC, CGLD, CJAA, CJCA,

CJCB, CJCC, CLCA, CLCB, CLJA, CLLA, CNEA, ECD/BSY, ECD/BYL, ECE/BWD

Associated Tools: VSE5852 - Service Position Front

End Support Guide Set - VAG (see page 426), VSE5755 - Tensioner Set - VAG - Belt Drive

(see page 431)



C NEW



BELT

CHAIN

VAG

FORD



VSE5851 Kit also covers applications on a range of VAG Petrol Engines, see page 433.

B Engine Timing Tool/Chain in Head Service Kit VAG, Ford - 1.6, 1.8, 1.8T, 2.0 - Belt/Chain Drive

Model No. **VSE5851**

Essential timing tools for timing belt replacement on a huge range of VAG and Ford diesel or petrol engines. Also suitable for chain in head service and tensioner applications on 1.8 and 1.8T engines. Includes camshaft, injection pump locking tools and cambelt tensioner tools. For petrol applications see page 433.

OEM Tools:

U40021/2065A/U20006/MP-1-300/21-105,

T20038/MP-1-312/3418, T10098, 2064/U20003/23-047, 3359/MP-1-301/U40074,

T20102, MP-1-302/V159/U30009, T10020/3387, T10092, T40011, T20044/3366

Applications:

Audi: 80 (91-96), A3/Sportback (96-13), A4 (94-01), A6 (94-05), S3 (99-03), TT (98-06)

Seat: Alhambra (96-10), Altea/Altea XL (04-12), Arosa (98-05), Cordoba (93-06),

Exeo (09-10), Ibiza (93-06), Inca (95-04), Leon (99-12), Toledo (94-09)

Skoda: Fabia (99-07), Felicia (95-01), Octavia/Octavia Tour (96-10), Octavia II (04-13),

Superb (02-08)

VW: Beetle (98-11), Bora (97-06), Caddy/Pick Up (80-15), Fox (05-07),

Golf (80-12), Golf Plus (05-15), Jetta (80-11), Lupo (98-05), Passat (80-10), Polo (95-06),

Santana (80-88), Sharan (95-10), Touran (03-10), Transporter (80-13), Vento (94-98)

Ford: Galaxy (95-00)

Engine Codes - Diesel:

1.7D: AHG, KY

1.7D SDi: AHB, AKU, AKW

1.9D: 1X, 1Y, ABL, AEF

1.9D Turbo: AAZ

1.9D SDi: AEY, AGD, AGP, AQM, ASX, ASY, AYQ

1.9D TDi: 1Z, AFF, AFN, AGR, AHF, AHH, AHU, ALE, ALH, ASV, AVG

Associated Tool: VSE5852 - Service Position Front End Support Guide Set - VAG

(see page 426)

C Fuel Pump Drive Belt Kit - VAG 2.7D, 3.0D - Chain Drive

Model No. **VSE3142**

Designed to lock the fuel pump into its timed position so that the fuel pump drive belt can be replaced or the fuel pump timing checked.

OEM Tools:

T40058, T40135, T10320, 3242

Applications:

Audi: A4 (07-12), A4 Quattro (08-12),

A4 Allroad (09-12), A5 Coupe (07-12), A5 Sportback (09-12), A5 Cabriolet (08-12),

A6 (08-18), A6 Allroad (08-18), A6 Quattro (08-18), A7 (14-18), Q5 (08-12), Q7 (07-10), TT (08-14)

Porsche: Cayenne (08-11)

VW: Phaeton (07-13)

Engine Codes:

2.7D: CAMA, CAMB, CANA, CANB, CANC, CAND, CGKA, CGKB

3.0D: CARA, CASA, CASB, CASD, CATA, CEXA, CEXB, CCMA, CCWA, CCWB, CCLA,

CDYA, CDYB, CDYC, M05/9D, M059E

A CHAIN VAG



A Timing Tool & HP Pump Removal Kit - VAG 2.7D, 3.0D, 4.0D, 4.2D TDi Common Rail - Chain Drive Model No. VSE6181

Comprehensive kit required for service work on timing chain, cylinder head, HP pump and engine timing applications on VAG 2.7D, 3.0D TDi V6 and 4.0D, 4.2D TDi V8 common rail diesel engines. Kit includes HP pump remover and required locking pin. Kit also includes tools to cover the later 3.0D TDi V6 and 4.2D TDi V8 common rail second generation engines.

OEM Tools: T40058, T40060, T40061, T40062, T40049, T40071, T40064, T40135, 3242, 3359, T40237, T40245, T40246

Applications:

Audi: A4 (05-16), A5 (07-16), A5 Sportback (11-17), A6 (04-18), A6 Allroad (06-18), A7 (10-18), A8 (03-14), Q5 (08-17), Q7 (06-15), SQ5 (13-15)

VW: Phaeton (04-14), Touareg (05-14)

Engine Codes:

2.7D TDi V6: BPP, BSG, CAMA, CAMB, CANA, CANB, CANC, CAND, CGKA, CGKB

3.0D TDi V6: ASB, BKN, BKS, BMK, BNG, BUG, BUN, BWA, BWE, BWJ, BWT, BYD, BYK, BZC, CAPA, CARA, CASA, CASB, CASC, CASD, CATA, CCLA, CCMA, CCWA, CCWB, CDLA, CDLB, CDLC, CDLD, CDLF, CDMA, CDTA, CDTB, CDUC, CDYA, CDYB, CDYC, CEXA, CGQB, CJGA, CJGC, CJGD, CJMA, CKVB, CKVC, CLAA, CLAB, CLZB, CNRB, CPNB, CRCA, CRTD, CRTE, CRTF, CTBA, CTBC, CTBB, CTCC

4.0D TDi V8: ASE

4.2D TDi V8: BTB, BVN, CCFA, CCFC, CDSB, CKDA

D GEAR VAG



D Water Pump Removal Kit - VW 2.5D TDi PD - Gear Drive Model No. VSE6000

Suitable for removing the water pump on Pompe Duse, diesel, gear drive engines. Essential to align the engine in the TDC position. Supplied in a storage case.

OEM Tools: T10225, T10221A, T10222A

Applications:

VW: Touareg (03-10), Transporter T5 (03-09)

Engine Codes:

2.5D TDi PD: AXD, AXE, BAC, BLJ, BLK, BNZ, BPC, BPD, BPE

Associated Tool: VSE6146 - Timing Tool Kit - VW 2.5D

TDi PD - Gear Drive (see [B](#))

B GEAR VAG



B Timing Tool Kit VW 2.5 TDi PD Gear Drive Model No. VSE6146

Suitable for VW 2.5D TDi PD gear drive diesel engines where the camshaft, crankshaft and auxiliary shafts are all linked by a geared mechanism.

OEM Tools: T10193, T10199, T10199/01, T10225, T10226, T10234

Applications:

VW: Touareg (03-10), Transporter (03-09)

Engine Codes:

2.5D TDi PD: AXD, AXE, BAC, BLJ, BLK, BNZ, BPC, BPD, BPE

Associated Tool: VSE6000 - Diesel 2.5D TDi PD Water Pump Removal Kit (see [D](#))

C BELT VAG



C Camshaft Sprocket Hub Remover/Installer Set VAG - Belt Drive Model No. VSE5952

Essential tool required when removing the cylinder head/camshafts on VAG Pompe Duse and common rail diesels. Set comprises camshaft sprocket hub holding tool and hub remover.

OEM Tools: T10051, T10052

Applications:

Audi: A1 (10-12), A2 (00-06), A3 (01-12), A4 (99-14), A4 Allroad (07-14), A5 Sportback (09-12), A5 Coupe/Cabriolet (09-12), A6 (98-14), TT (08-14), Q5 (09-12)

Dodge: Caliber (06-11)

Ford: Galaxy (99-06)

Mitsubishi: Grandis (05-10), Lancer (07-10), Outlander (07-10)

Seat: Altea/Altea XL (04-12), Alhambra (99-14), Arosa (99-05), Cordoba (02-09), Exeo (09-13), Ibiza (02-14), Leon (00-13), Toledo (00-09)

Skoda: Fabia (03-07), Fabia II (07-14), Octavia (02-05), Octavia Tour (00-10), Octavia II (04-12), Praktik (10-14), Roomster (06-12), Superb (02-08), Superb II (08-14), Yeti (09-12)

VW: Amarok (10-14), Beetle (00-11), Bora (98-06), Caddy/Caddy Maxi (03-14), EOS (06-14), Fox (05-11), Golf (98-06), Golf/Golf Estate (04-13), Golf Plus (05-12), Jetta (05-11), Lupo (99-05), Passat (98-14), Passat CC (08-12), Polo (99-14), Scirocco (08-12), Sharan (99-14), Tiguan (07-14), Touran (03-14), Transporter (03-14)

Engine Codes:

Pompe Duse:

1.2D TDi PD: ANY, AYZ

1.4D TDi PD: AMF, ATL, BAY, BHC, BMS, BNM, BNV, BWB

1.4D TDi PD/Ecomotive/BlueMotion: BMS

1.9D TDi PD/TDIE/vRS: AJM, ANU, ARL, ASZ, ATD, ATJ, AUY, AVB, AVF, AVQ, AWX, AXB, AXR, BDK, BKC, BLS, BPX, BPZ, BRU, BSU, BSV, BSW, BTB, BKC, BKD, BKE, BLT, BMT, BRB, BRM, BRU, BLS, BUK, BVK, BXJ, BJB, BXE, BXF

1.9D TDi PD/Greenline/Ecomotive/BlueMotion: BLS

2.0D TDi PD/PDIFR/Freerack: AXB, AXC, AZV, BDJ, BGW, BHW, BKD, BKP, BKQ, BMA, BMM, BMN, BMP, BMR, BRA, BSS, BUY, BUZ, BLB, BNA, BPW, BRC, BRD, BRE, BRF, BRR, BRS, BRT, BST, BVA, BE, BVF, BVG, BVH, BWV

2.0D Di-D/CRD: BWC, BSY, ECE(BWD), ECD(BYL), ECD(BSY), ECD

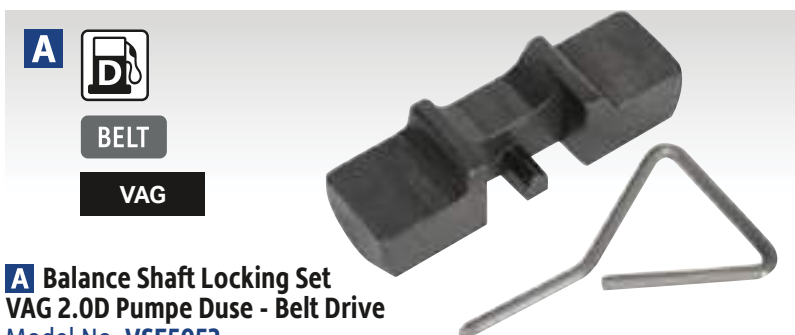
Common Rail:

1.2D TDi CR/Ecomotive/GreenLine: CFWA

1.6D TDi CR/Ecomotive/GreenLine/BlueMotion: CAYA, CAYB, CAYC, CAYD, CAYE, CLNA

2.0D TDi CR/TDIE/BlueMotion/GTD/BiTDI/Freerack: CAAA, CAAB, CAAC, CAAE, CAGA, CAGB, CAGC, CAHA, CAHB, CBAA, CBBA, CBAB, CBBB, CBDA, CBDB, CBDC, CBEA, CCHA, CCHB, CEGA, CFCA, CFGB, CFHA, CFHB, CFHC, CFHD, CFHF, CFHE, CFJA, CFFA, CFFB, CFFE, CFGB, CFJA, CJLA, CLJA, CJCB, CJCC, CLCA, CLCB, CMEA, CGLC, CGLD, CGLA, CGLB, CJCA, CEGA, CLJA, CLLA

Associated Tool: VSE5951 - Timing Tool Kit - VAG Pompe Duse/Common Rail 1.2, 1.4, 1.6, 1.9, 2.0TDi - Belt Drive (see page 426)



A Balance Shaft Locking Set
VAG 2.0D Pumpe Duse - Belt Drive
Model No. **VSE5953**

Special tools required during removal/installation of the balance shaft on certain VAG 2.0 Pumpe Duse diesel engines. Set comprises balance shaft locking tool and chain tensioner locking pin. Belt drive engines with the balance shaft driven separately by a chain.

OEM Tools: T10255, T10115

Applications:

Audi: A4 (04-09), A6 (05-08)

Seat: Alhambra (05-10)

Skoda: Superb (05-08), Superb II (08-10)

VW: Passat (03-09), Sharan (05-10)

Engine Codes:

2.0D TDi PD: BGW, BHW, BKP, BLB, BMA, BMP, BMR, BNA, BPW, BRC, BRD, BRE, BRF, BRT, BSS, BUZ, BVA, BVE, BVF, BVG, BVH, BWV

Associated Tool: VSE5951 - Timing Tool Kit - VAG Pumpe Duse/Common Rail 1.2, 1.4, 1.6, 1.9, 2.0TDi - Belt Drive (see page 426)



C 24pc Pulley Holding/Turning Set - VAG
Model No. **VS754**

Designed to counter-hold water pump, camshaft, crankshaft, oil pump, pulleys and sprockets when loosening and tightening the securing bolts. Adaptors included: Ø4.8mm, Ø6mm, 15mm x 6mm square, 15mm x 12mm square, 13mm x 17mm cup, 16mm x 20mm cup, M10, M12 spline, 6mm/10mm/12mm stepped adaptors, adaptor plate and handle. Supplied in storage case.

OEM Tools: T10172, T10172A, T10554



E Tensioner Set - VAG - Belt Drive
Model No. **VSE5755**

Set of three specialised tensioner tools for VAG Pumpe Duse and Common Rail diesels fitted with the larger engine mounting bracket. Design of bracket avoids removal during timing belt replacement applications. Use of these specialised tensioning tools is essential due to the limited working space available.



F Timing Tool Kit
VAG 1.0, 1.2, 1.4 TSi
Belt Drive
Model No. **VSE5760**

See www.sealey.co.uk for full list of applications and engines codes. Suitable for the latest generation VAG TSi petrol engines. Contains essential tools for camshaft and crankshaft locking. Supplied in storage case with full instructions and a warning tag.



B Timing Tool Kit - VAG 2.8, 3.2 - Chain Drive
Model No. **VS5138**

Suitable for VAG 2.8 and 3.2 petrol engines, includes crankshaft holding wrench. Supplied in a storage case with a warning tag included.

OEM Tools: T10068A, T10069, T40098

Applications:

Audi: A3/A3 Sportback

Seat: Alhambra, Leon

VW: Bora, Eos, Golf IV/Estate, Golf V, Phaeton, Sharan, Touareg, Transporter T4, Transporter T5

Engine Codes:

2.8: AMV, AUE, AYL, BDE

3.2: AYT, AZZ, BAA, BDB, BDL, BFH, BHE, BJS, BKJ, BKK, BKL, BMJ, BML, BMV, BMX, BRJ, BRK, BUB, CBRA



D Camshaft Sprocket Remover - VAG 1.9, 2.4, 2.5, 2.7, 2.8, 3.7, 4.2
Belt Drive
Model No. **VSE5959**

See www.sealey.co.uk for full list of applications and engines codes. Also see Associated Tools: VSE2351 - Timing Tool Kit - VAG 2.5TDi V6 - Belt Drive (see page 428), VSE2354 - Timing Tool Kit - VAG 2.4, 2.7T, 2.8, 30v V6 - Belt Drive (see page 432), VSE5938 - Timing Tool Kit Audi/VW 3.7/4.2 V8 Belt Drive (see page 432)

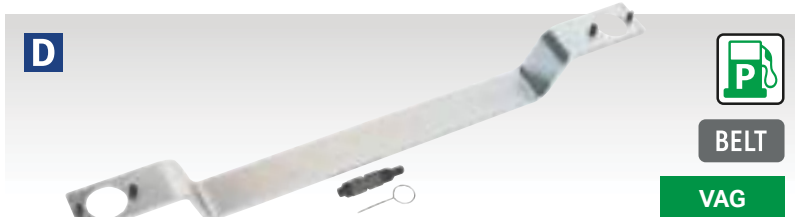


**A Camshaft Setting Plate - VAG 1.9SDi/TDi - Belt Drive****Model No. VSE5850**

Designed to set the camshaft timing without the need to remove the cam cover. Suitable for VAG 1.9SDi/TDi diesel engines.

OEM Tools:**Seat:** T20038**Skoda:** MP1-312**VW/Audi:** T10098**Applications:****Audi:** A3 (96-03)**Seat:** Cordoba (99-02), Ibiza (99-02), Leon (99-05), Toledo (99-05)**Skoda:** Fabia (99-06), Octavia/Octavia Tour (97-06)**VW:** Beetle (98-04), Bora (97-05), Caddy (98-03), Fox (05-07), Golf (97-05), Polo (99-06)**Engine Codes:****1.9D SDi:** AGP, AQM, ASY**1.9D TDi:** AGR, AHF, ALH, ASV**Associated Tool:** VSE5959 - Camshaft Sprocket Remover - VAG 1.9, 2.4, 2.5, 2.7, 2.8 - Belt Drive (see page 431)**B Timing Tool Kit - Audi 4.2 V8 - Chain Drive****Model No. VSE7407**

Kit includes camshaft setting plates, camshaft positioning sensor alignment tools and crankshaft locking pin. Supplied in a storage case with warning tag and comprehensive instructions.

OEM Tools: T40046, T40047, 3242**Applications:****Audi:** Allroad (02-15), S4 (03-08), S4 Cabriolet (03-09), A6 Quattro (04-08)**Engine Codes:****4.2 V8:** BAS, BAT, BBK, BHF**D Timing Tool Kit - VAG 2.4, 2.7T, 2.8, 30v V6 - Belt Drive****Model No. VSE2354**

Essential engine timing tools for camshaft, crankshaft and tensioner, used during timing belt replacement on this range of V6 engines.

OEM Tools: 3242/T30052, 3391/T30065, T40011**Applications:****Audi:** A4 (96-06), A4 Quattro (00-01), A4 Cabriolet (02-09), A6 (96-05),

A6 Quattro (97-05), A6 Allroad (00-05), A8 (96-02), S4 (98-01), RS4 (00-02), S4 (98-01)

Skoda: Superb 1 (02-08)**VW:** Passat (97-05)**Engine Codes:****2.4 30v V6:** AGA, AJG, ALF, ALW, AML, AMM, APC, APS, APZ, ARJ, ARN, ASM, BDV**2.7T 30v V6:** AGB, AJK, ARE, ASJ, AZA, AZB, AZR, BES**2.8 30v V6:** ACK, AGE, ALG, AMX, APR, AQD, ATQ, ATX, BBG**Associated Tools:**

VSE5852 - Service Position Front End Support Guide Set - VAG (see page 426), VSE5959 - Camshaft Sprocket Remover - VAG 1.9, 2.4, 2.5, 2.7, 2.8, 3.7, 4.2 - Belt Drive (see page 431)

**C Timing Tool Kit - Audi 3.0 V6 30v - Belt Drive****Model No. VSE5051A**

For Audi 3.0 V6 30v petrol engines. Kit contains camshaft and crankshaft timing tools plus camshaft sprocket adjusting tool, belt tensioner adjuster and tensioner locking pins.

OEM Tools: 3387, T40011, T40026, T40028, T40030**Applications:****Audi:** A4 (01-08), A6 (01-08), A8 (03-10)**Engine Codes:****3.0 V6 30v:** ASN, AVK, BBJ, BGN**Associated Tools:** VSE5852 - Service Position Front End Support Guide Set (see page 426)**E Timing Tool Kit - Audi, VW 3.7/4.2 V8 - Belt Drive****Model No. VSE5938**

Suitable for the 3.7 and 4.2 V8 engines in Audi and VW models. Kit includes camshaft setting plate, crankshaft locking pin and tensioner tools. Supplied with warning tag.

OEM Tools: T40005, T40009, 3242, T40011**Applications:****Audi:** A6 (99-05), A6 Quattro (99-05), A8 (99-06), S6 (00-04), S8 (99-03), RS6 (03-05)**VW:** Phaeton (02-16), Touareg (03-10)**Engine Codes:****3.7 V8:** AKC, AQG, BFL**4.2 V8:** AKB, ANK, AQF, AQH, AQJ, ARS, ART, ARU, ASG, AUW, AUX, AVN, AVP, AWW,

AXQ, AYS, BBD, BCS, BCY, BFM, BGH, BGJ, BGK, BHX, BRV

Associated Tools:

VSE5852 - Service Position Front End Support Guide Set - VAG (see page 426), VSE5959 - Camshaft Sprocket Remover - VAG 1.9, 2.4, 2.5, 2.7, 2.8, 3.7, 4.2 - Belt Drive (see page 431)

A



CHAIN

AUDI



A Timing Tool Kit - Audi 2.5 TFSi - Chain Drive

Model No. **VSE5025**

Suitable for Audi 5-cylinder 2.5 chain drive petrol engines. Contains the essential tools required to set and lock the engine. Includes a camshaft adjuster turning socket and a crankshaft turning socket. Supplied in a storage case with instructions and a warning tag.

OEM Tools: T40069, T40070, T03006, T40079, T03003

Applications:

Audi: RS Q3 (13-18), RS (10-13), TT (12-14)

Engine Codes:

2.5 TFSi: CEBB, CEPA, CTSA, CZGA, CZGB

C



BELT

CHAIN

VAG



C Belt Replacement & Chain in Head Service Kit - VAG 1.8/1.8T, 2.0 FSi/TFSi/TSi, 2.0S/R - Belt/Chain Drive

Model No. **VSE6171**

Suitable for belt tensioning the huge range of VAG 1.8/1.8T, 2.0FSi/TFSi/TSi twin camshaft engines. These belt drive engines also have a chain in head, connecting the two camshafts. The kit includes the tools necessary for servicing the chain in head and establishing correct valve/camshaft timing.

OEM Tools: T10020, T10115, T10252, T40011, 3366, T10060, T10092

Applications:

Audi: A3 (96-09), A4 (94-09), A6 (95-11), S3 (99-13), TT (98-14)

Seat: Alhambra (97-10), Altea/Altea XL (06-09), Cordoba (99-02), Exeo (09-10), Ibiza (99-02), Leon (99-13), Toledo (99-09)

Skoda: Octavia/Octavia Tour (98-10), Octavia II (04-09)

VW: Beetle (99-11), Bora (97-04), Eos (06-10), Golf (97-12), Golf Plus (05-09), Jetta (05-09), Passat (96-10), Scirocco (09-14), Sharan (97-10), Touran (03-09)

Engine Codes:

1.8: ADR, AFY, AGN, AJP, APG, APT, AQE, ARG, ARH, AVV

1.8T: AEB, AGU, AJH, AJL, AJQ, AMK, AMU, ANB, APP, APU, APX, APY, AQA, AQX, ARX, ARY, ARZ, AUM, AUQ, AVC, AWC, AWT, AWU, AYP, BAM, BFV, BVP, BVR

2.0FSi: AXW, BHD, BLR, BLX, BLY, BMB, BVX, BVY, BVZ

2.0TFSi/S/R/TSi: AXX, BPY, BWA, BGB, BPG, BPJ, BUL, BWE, BWT, BYK, BHZ, BZC, BWJ, BYD, CDLA, CDLC, CDLD, CDLF, CDMA

Associated Tool: VSE5852 - Service Position Front End Support Guide Set - VAG

(see page 426)

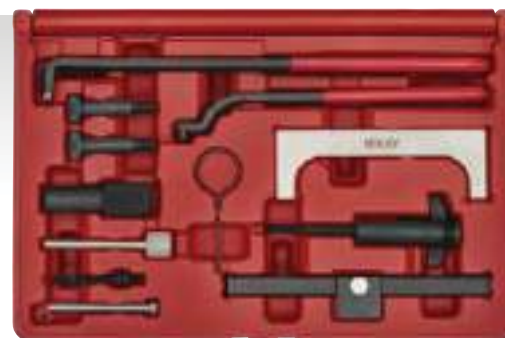
B



BELT

CHAIN

VAG
FORD



B Timing Tool/Chain in Head Service Kit VAG, Ford 1.6, 1.8, 1.8T, 2.0 - Belt/Chain Drive Model No. **VSE5851**



For Diesel applications, see page 429.

Essential timing tools for timing belt replacement on a huge range of VAG and Ford diesel or petrol engines. Also suitable for chain in head service and tensioner applications on 1.8/1.8T engines. Includes camshaft, injection pump locking tools and cambelt tensioner tools. For diesel applications see page 429.

OEM Tools: U40021/2065A/U20006/MP-1-300/21-105, T20038/MP-1-312/3418, T10098, 2064/U20003/23-047, 3359/MP-1-301/U40074, T20102, MP-1-302/V159/U30009, T10020/3387, T10092, T40011, T20044/3366

Applications:

Audi: 80 (91-96), A3/Sportback (96-13), A4 (94-01), A6 (94-05), S3 (99-03), TT (98-06)

Seat: Alhambra (96-10), Altea/Altea XL (04-12), Arosa (98-05), Cordoba (93-06), Exeo (09-10), Ibiza (93-06), Inca (95-04), Leon (99-12), Toledo (94-09)

Skoda: Fabia (99-07), Felicia (95-01), Octavia/Octavia Tour (96-10), Octavia II (04-13), Superb (02-08)

VW: Beetle (98-11), Bora (97-06), Caddy/Pick Up (80-15), Fox (05-07), Golf (80-12), Golf Plus (05-15), Jetta (80-11), Lupo (98-05), Passat (80-10), Polo (95-06), Santana (80-88), Sharan (95-10), Touran (03-10), Transporter (80-13), Vento (94-98)

Ford: Galaxy (95-00)

Engine Codes - Petrol:

1.6: 1F, ADP, AEH, AEK, AFT, AHL, AKL, AKS, ALZ, ANA, APF, ARM, AUR, AVU, AWH, AYD, BFQ, BFS, BGU, BSE, BSF, CCSA, CHGA, CMXA, CR, CS, CY, IV, JK, JP, JR, JX, ME, RA

1.8: ABS, ADR, ADZ, AFY, AGN, AJP, APG, APT, AQE, ARG, ARH, AVV

2.0: 2E, AAC, AAE, ABF, ABK, ACE, ADY, AEG, AGG, AKT, APK, AQY, ATM, ATU, AWF, AWG, AXA, AZG, AZH, AZJ, AZL, AZM, BBX, BEH, BSX

Engine Codes - Petrol - Chain in Head:

1.8: AGN, AJP, APG, ADR, AFY, APT, ARG, AVV

1.8T: AEB, AGU, AJH, AJL, AJQ, AMK, AMU, ANB, APP, APU, APX, APY, AQA, AQX, ARX, ARY, ARZ, AUM, AUQ, AVC, AWC, AWU, AYP, BAM, BFV, BVP, BVR

Associated Tool: VSE5852 - Service Position Front End Support Guide Set - VAG (see page 426)

D



CHAIN



D Crankshaft Turning Socket

VAG - Chain Drive

Model No. **VSE5058**

Specially designed socket for turning the crankshaft on a wide range of 6 and 8-cylinder VAG engines.

OEM Tool: T40058

Applications:

Audi: A4 (07-12), A5 (07-12), A6 (02-11), A8 (06-10), Q7 (06-10), RS4 (05-08), S5 (07-11), S6 (05-10), S8 (05-10)

VW: Touareg (06-10)

Engine Codes:

2.4: BDW

3.2: AUK, BKH, BPK, CALA

4.2: BAR, BNK, BNS, BVJ, CAUA

5.2: BSM, BXA

E



CHAIN

E Crankshaft Turning Socket Audi 2.5 5-Cylinder - Chain Drive Model No. **VSE5026**

Crankshaft turning socket for Audi 5-cylinder petrol engines.

OEM Tool: T03003

Applications:

Audi: RSQ3 (15-18), RS3 (10-13), TT (09-14)

Engine Codes:

2.5: CEPA, CEPB, CZGA, CZGB

A



CHAIN

VAG

A Timing Tool Kit - VAG 1.8, 2.0 - Chain Drive Model No. VSE6236

Kit fits a wide range of VAG group 1.8 and 2.0 petrol engines. Includes essential tools required to remove the camshaft adjuster valves, and a useful crankshaft pulley holding tool. Some applications and repair operations will require additional tools.

OEM Tools: T10355, T10368, T10352, T10352/1, T20208, T40011, T40267

Applications:

Audi: A3 Saloon (13-15), A3/A3 Sportback (07-16), A3 Cabriolet (08-16), A4 (07-15), A4 Allroad (09-15), A4 Quattro (08-15), A5 Coupe/Cabriolet (07-16), A5 Sportback (09-17), A6 (12-18), A6 Quattro (14-18), A7 (15-18), S3 (16-18), TT (08-18), Q3 (11-16), Q5 (08-16)
Seat: Alhambra (10-15), Altea (06-15), Altea Freetrack (09-15), Exeo (10-13), Leon (09-19), Leon ST (14-19), Toledo (09-09)
Skoda: Octavia II (07-13), Octavia III (13-19), Superb II (08-15), Superb III (15-19), Yeti (09-13)
VW: Amarok (10-16), Beetle (13-16), CC (12-15), EOS (08-15), Golf V (09-13), Golf VI (09-13), Golf VII (13-16), Golf VI Cabriolet (12-14), Golf VII (12-15), Jetta (05-11), Transporter T5 (11-15), Passat (07-11), Passat (11-18), Passat Alltrack (12-18), Passat CC (08-12), Scirocco (08-14), Sharan (11-18), Tiguan (07-18)

Engine Codes:

1.8 TFi/TFSi: BYT, BZB, CABA, CABB, CABD, CDAA, CDAB, CDHA, CDHB, CJSA, CJSB, CJEB
2.0 TFi/TFSi: CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CCZD, CDNB, CDNC, CDND, CESA, CETA, CFKA, CFPA, CHHA, CHHB, CJKA, CJKB, CNCB, CNCD, CPLA, CPSA, CYNB

D



CHAIN

VAG

B



CHAIN

VAG

B Timing Chain Tensioner Lever - VAG 1.8, 2.0 TFi/TFSi - Chain Drive Model No. VSE4243

Time-saving tool, allows the timing chain tensioner to be retracted and locked without removing the lower timing cover.

OEM Tool:

T40243

Applications:

Audi: A3 (08-16), A3 Sportback (08-16), A3 Cabriolet (09-16), A4 (08-15), A4 Quattro (08-15), A4 Allroad (09-13), A5 Sportback (09-17), A5 Cabriolet (08-16), A5 Coupe (08-16), A6 (12-15), S3 (13-14), S3 Sportback (13-16), S3 Cabriolet, (14-16), TT (06-18), Q3 (11-15), Q5 (08-12)

Seat: Alhambra (10-18), Altea/Altea XL (09-15), Exeo (09-13), Leon (09-18), Leon ST (14-18), Toledo (09-13)

Skoda: Octavia II (08-13), Superb II (08-15), Octavia III (13-18), Superb III (15-19), Yeti (09-15), Yeti Outdoor (13-15)

VW: Beetle (11-14), EOS (09-15), Golf VI (09-12), Golf VI Estate (09-13), Golf VI Cabriolet, (12-15), Golf VII (13-17), Golf Alltrack (14-17), Jetta (11-14), Passat (08-18), Passat Alltrack (12-15), Passat CC (08-15), Scirocco (09-15), Sharan (12-18), Tiguan (09-15), Touran (15-18)

Engine Codes:

1.8 TFi, TFSi: CDAA, CDAB, CDHA, CDHB, CGYA, CJEB, CJSA, CJSB, CJSC

2.0 TFi, TFSi: CCZA, CCZB, CCZC, CCZD, CDNB, CDNC, CDHA, CDHB, CDND, CESA, CETA, CFKA, CJXA, CJXB, CJXC, CJXE, CJXG, CJXH, CPSA, DEDA

C Inlet Camshaft Turning Tool - VAG 1.8, 2.0 TFSi Generation III Engines - Chain Drive Model No. VSE6680

Specialised socket for turning the inlet camshaft during engine timing chain repair operations. Suitable for VAG 1.8, 2.0 TFSi Generation III chain drive petrol engines.

OEM Tool:

T40266

Applications:

Audi: A3 (12-16), A3 Sportback (12-16), A3 Cabriolet (13-16), A4 (08-15), A4 Quattro (12-15), A5 (09-11), A5 Sportback (09-16), A5 Cabriolet (09-12), A5 Coupe (13-16), Q5 (05-17), TT (15-18)

Seat: Alhambra (11-16), Altea (09-16), Altea XL (09-16), Altea Freetrack (09-16), Exeo (09-16), Leon (09-18), Leon ST (13-18)

Skoda: Octavia II (08-13), Octavia III (13-18), Superb II (08-15), Superb III (15-17), Yeti (13-15)

VW: Beetle (13-16), CC (12-15), EOS (08-15), Golf V (09-13), Golf VI (09-13), Golf VII (12-15), Golf Alltrack (14-18), Jetta VI (11-16), Jetta V (05-11), Passat (11-18), Tiguan (07-15), Touran (14-18)

Engine Codes:

1.8 TFSi: CDAA, CDAB, CDHA, CDHB, CJEB, CJEE, CJSA, CJSB, CJEB

2.0 TFSi: CNCD, CNCE, CNDC, CDNB, CDNC, CFKA, CPSA

D Vibration Damper Holding Tool - VAG 1.8, 2.0 TFSi - Chain Drive Model No. VSE4251

Contains the essential tools required to maintain engine timing if the vibration damper has to be removed. Supplied in a storage case with full instructions.

OEM Tools:

T10531/1, T10531/2, T10531/3, T10531/4

Applications:

Audi: A3/A3 Sportback (07-17), A3 Cabriolet (08-16), A3 Saloon (13-16), A4 (07-18), A4 Quattro (08-18), A4 Allroad (13-18), A5 (15-18), A5 Sportback (09-18), A5 Coupe (07-18), A5 Cabriolet (08-17), A6 (12-18), A6 Quattro (15-18), A7 (14-18), A8 (12-14), RSQ3 (15-18), S1/S1 Sportback (14-18), S3/S3 Sportback (13-16), S3 Saloon (13-16), S3 Cabriolet (14-16), Q3 (11-18), Q5 (09-17), Q7 (15-18), TT (08-18)

Seat: Alhambra (10-18), Altea (06-15), Exeo (10-13), Ibiza (15-17), Leon (07-19), Leon ST (13-19), Toledo (07-09)

Skoda: Octavia II (07-13), Octavia III (13-18), Superb II (08-15), Superb III (15-19), Yeti (09-15), Yeti Outdoor (13-15)

VW: Amarok (10-16), Areton (17-19), Beetle (09-16), CC (12-15), Eos (08-15), Golf V (07-08), Golf VI (09-18), Golf VII (15-17), Golf Alltrack (14-17), Golf VI Estate (09-17), Jetta (08-15), Passat (07-18), Passat CC (08-12), Passat Alltrack (12-18), Polo (14-18), Scirocco (08-18), Sharan (11-18), Tiguan (07-18), Touran (14-15), Transporter T5 (11-15), Transporter T6 (15-19)

Engine Codes:

1.8 TFSi: BZB, BYT, CABA, CABB, CABD, CDHA, CDHB, CJED, CJEE, CJSA

2.0 TFSi: CAWA, CAWB, CBFA, CCTA, CCZA, CCZC, CDAA, CDNC, CDND, CCZB, CCZD, CDAB, CDNB, CESA, CETA, CFKA, CFPA, CGYA, CHHA, CHHB, CJKA, CHHC, CHJA, CJKB, CJSB, CJSC, CJXA, CJXB, CJXC, CJXE, CJXG, CJXH, CNCB, CNCD, CNCE, CPLA, CPSA, CULA, CULB, CULC, CYNB, CYPA, CYRB, CYRC, CWZA, CYBB, CYGA, DAJA, DAJB, DEDA

C

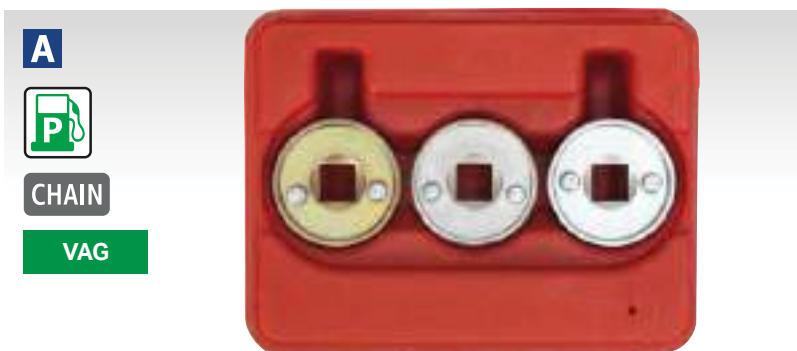


CHAIN

3/8" Sq. Drive

VAG





A Camshaft Control Valve Removal Set - VAG 1.8, 2.0 TSi/TFSi

Chain Drive

Model No. VSE2359

Contains the tools required for removal and installation of the central control valve for camshaft adjustment. Suitable for use on 1.8 and 2.0 TSi/TFSi 4-cylinder chain drive petrol engines fitted across a wide range of VAG vehicles.

OEM Tools: T10352, T10352/1

Applications:

Audi: A3 (07-13), A3 Cabriolet (08-16), A4 (07-15), A5 (09-14), A5 Coupe (08-17), A6 (12-18), A7 (15-18), TT (06-17), Q3 (11-16), Q5 (08-16)

Seat: Alhambra (10-15), Altea/Altea XL (06-15), Exeo (10-13), Leon (07-19), Toledo (07-13)

Skoda: Octavia II (07-13), Octavia III (13-15), Superb II (08-15), Yeti (09-15), Yeti Outdoor (13-15)

VW: Amarok (10-16), Beetle (11-16), CC (12-15), EOS (12-15), Passat (07-15), Golf V (07-08), Golf VI/VI Estate (09-13), Golf VI Cabriolet (12-15), Jetta (08-14), Passat (07-15), Passat Alltrack (09-15), Passat CC (08-12), Scirocco (08-14), Sharan (11-15), Tiguan (12-15)

Engine Codes:

1.8TSi/TFSi: BYT, BZB, CABA, CABB, CABD, CDAA, CDAB, CDHA, CDHB, CGYA, CJEB, CJSA, CJSB

2.0TSi/TFSi: CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CCZD, CDNB, CDNC, CDND, CDLA, CESA, CETA, CFKA, CFPA, CGYA, CHHB, CJK, CJKB, CJXA, CJXE, CJXH, CHHA, CMFA, CPLA, CPSA



C Timing Tool Kit - VAG 1.2, 1.4TFSi, 1.4, 1.6FSi - Chain Drive

Model No. VSE5956A

Timing kit suitable for 1.2, 1.4TFSi and 1.4, 1.6FSi engines. Kit contains essential tools for crank TDC positioning, camshaft setting and tensioner locking. Supplied in storage case.

OEM Tools: T10170, T10171A, T40011, T10340, T10414

Applications:

Audi: A1 (10-15), A3 (03-13)

Seat: Alhambra (10-15), Altea/Altea XL (08-15), Ibiza/Cordoba (08-12), Leon (07-13), Toledo (07-15)

Skoda: Fabia II (07-15), Octavia II (04-15), Praktik (10-15), Rapid (12-15), Roomster (06-15), Superb II (09-14), Yeti (09-14)

VW: Beetle (11-15), Caddy/Caddy Maxi (10-15), EOS (06-12), Golf (03-12), Golf Plus (03-14), Golf V Estate (07-13), Golf VI Cabriolet (10-15), Jetta (06-14), Passat (05-11), Polo (02-14), Scirocco (08-12), Tiguan (07-12), Touran (03-15)

Engine Codes:

1.2TFSi: CBZA, CBZB, CBZC

1.4FSi: AXU, BKG, BLN

1.4TFSi: BLG, BMY, BWK, CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CAXA, CAXC, CDGA, CSMA

1.6FSi: BAG, BLF, BLP, BTS

Associated Tools: AK9634M - 8mm Dial Gauge (see page 386), VSE23581 - Crankshaft Pulley Holding Tool - VAG (see page 437), VS783 - Universal Pulley & Fan Clutch Holder Set (see page 440)



B Timing Tool Kit - VAG 1.8, 2.0 TSi/TFSi - Chain Drive

Model No. VSE4242

Kit that covers a wide range of VAG petrol engines. Includes the necessary tools for setting the engine at TDC, the locking tools for both types of timing chain tensioner and a tool for the oil pump chain tensioner. Also includes the tool essential for removing the camshaft control valve.

OEM Tools: T40011, T40265, T40267, T40271-1, T40271-2, T10170A/1, T10352/T10352/1, VAS6079

Applications:

Audi: A3 Cabriolet (08-16), A3/A3 Sportback (07-16), A3/A3 Sportback (12-16), A4 (04-15), A4 Cabriolet (05-09), A4 Quattro (04-08), A4 Quattro (08-14), A5 Coupe/Cabriolet (07-17), A5 Sportback (09-17), A6 (05-14), Q3 (11-16), Q5 (08-16), S3 (06-08), TT (06-18)

Seat: Alhambra (10-15), Altea (06-15), Leon (06-19), Leon ST (13-19), Toledo (06-09)

Skoda: Octavia II (09-13), Octavia III (13-18), Superb II (08-15), Superb III (15-19), Yeti (09-13)

VW: Amarok (10-16), Beetle (13-16), Cabriolet (12-14), CC (12-15), Golf V (07-13), Golf VI Estate (09-14), Golf VII (13-15), Passat (15-18), Scirocco (08-14), Sharan (15-18), Tiguan (07-18), Touran (15-18), Transporter T5 (11-15)

Engine Codes:

1.8 TSi/TFSi: BYT, BXB, BZB, CABA, CABB, CABD, CDAA, CDAB, CDHA, CDHB, CGYA, CJEB, CJHA, CJSA, CJSB, CJSC, CJXA

2.0 TSi/TFSi: AXX, BGB, BHZ, BJP, BUL, BPG, BPJ, BPY, BWA, BWA1, BWE, BWJ, BWT, BYK, BZC, CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CCZD, CDLA, CDLC, CDNB, CDNC, CDND, CESA, CETA, CFKA, CFPA, CHHA, CHHB, CHJA, CJK, CJKB, CJSA, CJSC, CJXA, CJXB, CJXC, CJXE, CJXH, CNCD, CPLA, CPSA, DEDA



D Timing Tool Kit - VAG 3-Cylinder 1.2 (6v/12v) - Chain Drive

Model No. VSE5921

Contains camshaft setting tools and flywheel locking pin for timing 3-cylinder 1.2, 6 and 12 valve chain drive engines. These engines are fitted in Seat, Skoda and VW vehicles. Supplied in a storage case with instructions and a warning tag.

OEM Tools: T10120, T10121, T10123

Applications:

Seat: Ibiza/Cordoba (02-15)

Skoda: Fabia (02-07), Fabia II (07-15), Roomster (06-12), Praktik (09-15), Superb III (10-15)

VW: Fox (05-12), Polo (02-12)

Engine Codes:

1.2 6v: AWY, BBM, BMD, CHFA, CHFB

1.2 12v: AZQ, BME, BXV, BZG, CEVA, CGPA, CGPB, CJLA

Associated Tool: VSE23581 - Crankshaft Pulley Holding Tool - VAG (see page 437)



A Camshaft Setting Tool - VAG 1.4, 1.6 16v/FSi - Belt Drive
Model No. VSE2357A

Suitable for VAG 1.4 and 1.6 twin camshaft, belt drive, petrol engines introduced in 1997. Dependant on the engine variant/sprocket position, either the complete tool or the pins alone may be required.

OEM Tools: T10016, T10074

Applications:

Audi: A2 (00-06)

Skoda: Fabia (99-07), Fabia II (07-12), Octavia (99-10), Octavia II (04-13), Roomster (06-12)

Seat: Altea (06-10), Arosa (99-05), Ibiza/Cordoba (99-13), Inca (00-04), Leon (99-10), Toledo (99-09)

VW: Beetle (01-11), Bora (97-10), Caddy/Caddy Maxi (99-10), Golf/Golf Estate (97-12), Golf Plus (05-12), Lupo (98-05), Polo (98-12)

Engine Codes:

1.4: AFK, AHW, AKQ, APE, AQQ, ARR, AUA, AUB, AXP, BBY, BBZ, BCA, BKY, BUD, BXW, CGGA, CGGB, CMAA

1.6: AJV, ARC, ATN, AUS, AVY, AZD, BAD, BCB



B Timing Tool Kit - VAG 1.2, 1.4TFSi, 1.4, 1.6FSi - Chain Drive
Model No. VSE5950

Timing kit suitable for 1.2, 1.4TFSi and 1.4, 1.6FSi engines. Kit contains essential tools for crank TDC positioning, camshaft setting and tensioner locking. Supplied in storage case.

OEM Tools: T10340, T10414, T10171A, T40011

Applications:

Audi: A1 (10-15), A3 (03-13)

Seat: Alhambra (10-15), Altea/Altea XL (08-15), Ibiza/Cordoba (08-12), Leon (07-13), Toledo (07-15)

Skoda: Fabia II (07-15), Octavia II (04-15), Praktik (10-15), Rapid (12-15), Roomster (06-15), Superb II (09-14), Yeti (09-14)

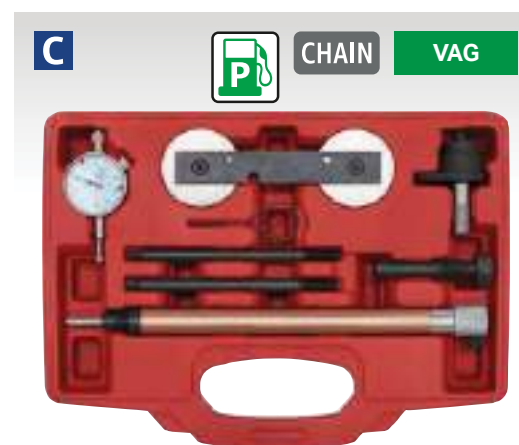
VW: Beetle (11-15), Caddy/Caddy Maxi (10-15), EOS (06-12), Golf (03-12), Golf Plus (03-14), Golf V Estate (07-13), Golf VI Cabriolet (10-15), Jetta (06-14), Passat (05-11), Polo (02-14), Scirocco (08-12), Tiguan (07-12), Touran (03-15)

Engine Codes:

1.2: CBZA, CBZB, CBZC

1.4: AXU, BKG, BLG, BLN, BMY, BWK, CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CAXA, CAXC, CDGA, CSMA

1.6: BAG, BLF, BLP, BTS



C Timing Tool Kit - VAG 1.2, 1.4TFSi, 1.4, 1.6FSi - Chain Drive
Model No. VSE5988

Timing kit suitable for 1.2, 1.4TFSi and 1.4, 1.6FSi engines. Kit contains essential tools for crank TDC positioning, camshaft setting and tensioner locking. Includes guide pins for aligning the supercharger. Supplied in storage case with instructions and a warning tag.

OEM Tools: T10340, T10414, T10171A, T40011, T10170, VAS6079, T10341

Applications:

Audi: A1 (10-15), A1 Sportback (10-15), A3 Cabriolet (10-13), A3 (10-15), A3 Sportback (03-13)

Seat: Altea/Altea XL (10-15), Ibiza (10-15), Leon (10-13), Toledo (12-15)

Skoda: Fabia II (10-15), Praktik (10-15), Rapid (12-15), Rapid Sportback (12-15), Octavia II (04-13), Yeti (09-15), Yeti Outdoor (13-15)

VW: Beetle (11-15), Caddy/Caddy Maxi (10-15), EOS (07-15), Golf V (03-13), Golf V Estate (07-09), Golf VI (10-13), Golf VI Estate (10-13), Golf VI Cabriolet (11-15), Golf Plus (05-14), Jetta (05-14), Passat (05-15), Polo (09-14), Scirocco (08-14), Tiguan (07-15), Touran (03-15)

Engine Codes:

1.2 TFSi: CBZA, CBZB, CBZC

1.4 FSi/TFSi: BLG, BMY, BWK, CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CAXA, CAXC, CDGA, CSMA

1.6 FSi: BAG, BLF, BLP



D Timing Tool Kit - VAG 1.2, 1.4 TSi - Belt Drive
Model No. VS5145

Suitable for the latest VAG 1.2, 1.4TSi belt drive petrol engines including the 1.4TSi ACT. Contains essential tools for camshaft locking, crankshaft replacement and timing belt replacement. Supplied in storage case.

OEM Tools: T10340, T10499, T10494, T10504, T10060A

Applications:

Audi: A1 (12-18), A1 Sportback (12-18), A3 (13-18), A3 Sportback (12-17), A3 Cabriolet (14-17), Q2 (16-18), Q3 (15-18)

Seat: Alhambra (15-17), Ateca (16-18), Ibiza (12-17), Leon (12-18), Leon ST (14-18), Tarraco (19-21), Toledo (12-17)

Skoda: Fabia (10-13), Fabia III (14-17), Kodiaq (17-21), Octavia II (10-13), Octavia III (10-18), Rapid (15-17), Rapid Spaceback (15-17), Yeti (15-17), Yeti Outdoor (15-17)

VW: Caddy/Caddy Maxi (15-21), Golf VII (08-17), Golf VII Estate (08-17), Golf Sportsvan (14-15), Jetta (12-17), Polo (12-17)

Engine Codes:

1.2TSi: CJZA, CJZB, CJZC, CJZD, CYVA, CYVB

1.4TSi: CGGA, CHPA, CHPB, CKSB, CMBA, CPVA, CPWA, CRJA, CUKB, CUKC, CYVB, CXSA, CZDA, CZDB, CZIA

1.4TSi ACT: CPTA

1.6: CWVA, CWVB



E Timing Tool Kit VAG 1.0 - Belt Drive
Model No. VS5140

Covers the range of VAG 1.0 petrol engines. Includes the tools required to hold the camshaft sprockets and to adjust the timing belt tensioner.

OEM Tools: T10172, T10340, T10477, T10499

Applications:

Audi: A1 (15-18), A1 Sportback (15-18), A3 (16-18), A3 Sportback (16-18), A3 Saloon (16-18), Q2 (16-18)

Seat: Arona (17-19), Ateca (16-19), Ibiza (12-20), Mii (12-20), Toledo (17-19)

Skoda: Citigo (11-19), Fabia III (14-19), Octavia III (16-18)

VW: Caddy (15-18), Caddy/Caddy Maxi (15-21), Golf VII (15-18), Golf SV/Sportvan (15-17), Polo (15-18), Up! (11-20)

Engine Codes:

1.0: CNZA, CHZB, CHZC, CHZD, CHZG, CHZJ, CHYC, CPGA, CHYA, CHYB



A Crankshaft Pulley Holding Tool VAG 1.0, 1.2, 1.4 TSi - Belt Drive Model No. VSE6255

Suitable for VAG 1.0, 1.2 and 1.4 TSi petrol engines. Counter holding tool used when removing or tightening crankshaft pulley bolt. 1/2" Sq Drive for use with a conventional breaker bar.

OEM Tool:	T10475
Applications:	
Audi:	A1/A1 Sportback (12-15), A3/A3 Sportback (12-15), A3 Saloon (13-15), A3 Cabriolet (13-15)
Seat:	Ibiza (12-19), Leon (12-15), Leon ST (13-15), Mii (12-19), Toledo (15-17)
Skoda:	Citigo (11-19), Fabia (11-14), Fabia III (14-20), Octavia II (10-13), Octavia III (13-15), Rapid (15-17)
VW:	Golf VI (08-13), Golf VI Plus (09-14), Golf VI Estate (09-13), Golf VII (12-15), Golf VII Estate (13-14), Golf SV/Sportsvan (14-16), Jetta (12-18), Polo (14-18), Up! (11-20)
Engine Codes:	
1.0:	CPGA, CYHA, CYHB
1.2:	CJZA, CJZB, CJZC, CJZD
1.4:	CGGA, CHPA, CMBA, CPTA, CPVA, CPVB, CRJA, CXSA



D Crankshaft Pulley Holding Tool - VAG - Belt Drive Model No. VSE23581

Suitable for VAG 1.2 6v, 1.2 12v, 1.4 & 1.6 16v twin cam petrol engines (97-14).

OEM Tools:	T30004/3415
Applications:	
Audi:	
1.4 16v:	A2 (00-06)
Seat:	
1.2 6v:	Cordoba (06-08), Ibiza (06-08)
1.2 12v:	Cordoba (02-08), Ibiza (02-08)
Skoda:	
1.2 6v:	Fabia (02-07), Fabia II (07-12)
1.2 12v:	Fabia (02-07), Fabia II (07-10), Praktik (07-09), Roomster (06-09)
1.4 16v:	Fabia (99-07), Octavia (00-02), Octavia II (04-09), Roomster (06-06)
VW:	
1.4/1.6 16v:	Beetle (01-11), Caddy (99-10), Golf/Bora (97-11), Golf Plus (05-09), Lupo (98-05), Polo (97-09)
Engine Codes:	
1.2 6v:	AWY, BBM, BMD, CHFA, CHFB
1.2 12v:	AZQ, BME, BXV, BZG, CEVA, CGPA, CGPB, CJLA
1.4/1.6 16v:	AFK, AHW, AJV, AKQ, APE, AQQ, ARR, AUA, AUB, AXP, BAD, BBY, BBZ, BCA, BKY, BUD
Associated Tool:	VSE2357A - Petrol Engine Camshaft Setting Tool - VAG 1.4, 1.6 16v/FSi - Belt Drive (see page 436)



B Auxiliary Belt Tensioner Wrench - VAG 1.4 TSi/TFSi - Belt Drive Model No. VSE5047

Specially designed wrench to allow for access to the auxiliary belt tensioner where access is limited. 1.4 direct injection 4-cylinder TSi and TFSi BlueMotion engines.

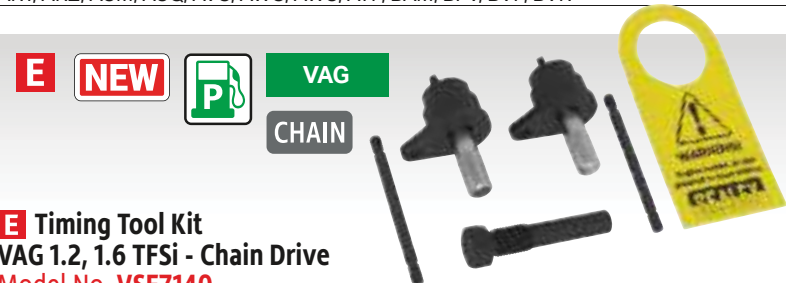
OEM Tool:	T10447
Applications:	
Audi:	A1 Sportback (12-15), A3 (13-15), A3 Sportback (12-15)
Seat:	Ibiza (13-15), Leon (12-15), Leon ST (13-15), Toledo (12-14)
Skoda:	Octavia II (10-13), Octavia III (10-13), Octavia III (13-15)
VW:	Polo (12-14), Golf VII (12-15), Golf VII Estate (09-15), Golf Plus (09-14), Jetta (12-14)
Engine Codes:	
1.4 TSi ACT:	CPTA
1.4 TFSi:	CGGA, CHPA, CMBA, CPTA, CPVA, CRJA, CXSA



C Belt Replacement & Chain in Head Service Set VAG 1.8, 1.8T - Belt Drive Model No. VSE5909

Suitable for belt tensioning 1.8 and 1.8 Turbo twin camshaft engines. These belt drive engines also have a chain connecting the two camshafts. Includes a belt tensioner bolt, belt tensioner pin and chain tensioner retainer.

OEM Tools:	T10092, T40011, T20044/3366
Applications:	
Audi:	A3 (96-03), A4 (94-01), A6 (95-05), S3 (99-03), TT (98-06)
Seat:	Alhambra (97-10), Cordoba (99-02), Ibiza (99-02), Inca, Leon (99-05), Toledo (99-05)
Skoda:	Octavia/Octavia Tour (98-10)
VW:	Beetle (99-11), Bora (97-04), Golf (97-04), Passat (96-00), Sharan (97-10)
Ford:	Galaxy (95-00)
Engine Codes:	
1.8:	ADR, AFY, AGN, AJP, APG, APT, AQE, ARG, ARH, AVV
1.8T:	AEB, AGU, AJH, AJL, AJQ, AMK, AMU, ANB, APP, APU, APX, APY, AQA, AQX, ARX, ARY, ARZ, AUM, AUQ, AVC, AWC, AWU, AYP, BAM, BFW, BVP, BVR



E Timing Tool Kit VAG 1.2, 1.6 TFSi - Chain Drive Model No. VSE7140

Fits a wide range of 1.2TFSi engines and the newer generation twin camshaft 1.6 TFSi engines. Contains guide pins for aligning the turbocharger. Supplied in a storage case with full instructions and a warning tag.

OEM Tools:	T10414, T10340
Applications:	
Audi:	A1 (10-15), A1 Sportback (10-14), A3 (10-13), A3 Sportback (10-13), A3 Cabriolet (10-13)
Skoda:	Fabia II (10-19), Octavia II (10-13), Praktik (10-15), Rapid (12-19), Rapid Spaceback (13-19), Roomster (10-19), Yeti (09-13), Yeti Outdoor (13-15)
Seat:	Toledo (12-19), Ibiza (12-15), Leon (10-13), Altea/Altea XL (10-15)
VW:	Beetle (11-15), Caddy/Caddy Maxi (10-15), Golf VI (09-15), Golf Plus (10-14), Jetta (11-18), Polo (09-16)
Engine Codes:	
1.2:	CBZA, CBZB, CBZC
1.6:	CFNA, CFNB



A 53pc Petrol & Diesel Master Timing Tool Kit VAG - Belt/Chain Drive Model No. VS5100MK

Master timing tool kit for VAG vehicles. Covers a wide range of petrol and diesel engines. Suitable for popular VAG vehicles from 1995 to present. Supplied in two high quality storage foam trays suitable for tool box drawers. Foam tray size 560 x 390 x 45mm.

OEM Tools:

VAG: T10352, T10355, T10368, T20208, T40011, T10492, T10409, T10490, T10051, T40001, T10494, T10504, T10499, T10476, T10477, T10475, T10414, T10016, T10115, T20102, T10265, T10264, T10008, T10060A, 3359, T10100, T10050, T10171A, T10170A, T10340, 6341, T10120, T10123, T10121, T10172, T10093, 3341, 3369, MP 1-300, 2064, 3418, VAG159, T20044, T10252

Applications:

Audi: A1 (10-18), A1 Sportback (10-18), A2 (00-01), A3 (96-18), A3 Sportback (03-18), A3 Cabriolet (08-18), A4 (95-16), A4 Quattro (90-16), A4 Cabriolet (06-09), A4 Allroad (07-16), A5 (08-17), A5 Sportback (09-17), A5 Coupe (09-17), A5 Cabriolet (09-17), A6 (97-17), A6 Quattro (01-18), Q3 (11-18), Q5 (08-17), S3 (99-03), TT (99-18)

Seat: Alhambra (00-18), Altea (04-15), Altea XL (04-15), Arosa (99-05), Cordoba (96-12), Exeo (09-16), Ibiza (99-17), Leon (99-18), Leon ST (13-18), Mii (12-19), Toledo (96-18)

Skoda: Fabia (99-10), Fabia II (07-15), Fabia III (14-18), Octavia (96-10), Octavia II (04-15), Octavia III (10-18), Praktik (07-15), Rapid (12-18), Rapid Spaceback (12-18), Roomster (06-15), Superb (02-08), Superb II (08-15), Superb III (15-18), Yeti (09-14), Yeti Outdoor (13-16)

VW: Amarok (10-16), Areton (17-19), Beetle (00-15), Beetle CC (12-15), Bora (00-06), Caddy (98-20), Caddy Maxi (00-15), CC (10-17), Citigo (12-19), Crafter (11-17), EOS (07-15), Fox (05-12), Golf (96-16), Golf Alltrack (14-17), Golf (11-15), Golf III (95-04), Golf III Cabriolet (95-98), Golf IV (97-05), Golf IV Cabriolet (98-04), Golf Plus (05-14), Golf V (03-08), Golf VI (08-13), Golf VI Cabriolet (11-15), Golf VI (08-19), Golf VI Plus (09-14), Golf VI Alltrack (14-17), Jetta (05-18), Lupo (98-05), Passat (95-18), Passat Allroad (12-15), Passat Alltrack (12-18), Passat CC (08-12), Polo (95-18), Polo Classic (95-02), Scirocco (08-17), Sharan (96-19), Sportsvan (14-17), Tiguan (07-15), Touran (03-17), Touareg (10-15), Transporter (92-18), UP! (12-20), Vento (96-98)

Engine Codes:

1.0: CHYA, CHYB, CPGA

1.2: ANY, AWY, AYZ, AZQ, BBM, BMD, BME, BXV, BZG, CBZA, CBZB, CBZC, CEVA, CFWA, CGPA, CGPB, CGPC, CHFA, CHFB, CJZA, CJZB, CJZC, CJZD

1.4: AFK, AHW, AKQ, AMF, AMR, APE, AQQ, ARR, ATL, AUA, AUB, AXP, AXU, BAY, BBY, BBZ, BCA, BHC, BKG, BKY, BLG, BLN, BMS, BMY, BNM, BNV, BUD, BWB, BWK, BXW, CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CAVG, CAXA, CAXC, CDGA, CGGA, CGGB, CHPA, CHPB, CKMA, CMAA, CMBA, CMSB, CNVA, CPTA, CPVA, CPVB, CPWA, CRJA, CTHA, CTHB, CTHC, CTHD, CTHE, CTHF, CTHG, CTJB, CTJC, CTKA, CUKB, CUKC, CUSA, CUSB, CUTA

1.6: 1F, AEH, AFT, AKL, AKS, ALZ, APF, ARC, AUR, AUS, AVU, AYD, AYY, AZD, BAD, BAG, BCB, BFQ, BFS, BGU, BLF, BLP, BSE, BSF, BTS, CAYA, CAYB, CAYC, CAYD, CAYE, CLHA, CLHB, CLNA, CLRA, CNKA, CRKA, CRKB

1.7:

1.8: AEB, AGN, AGU, AJL, AJP, AJQ, AMK, AMU, ANB, APG, APP, APU, APX, APY, AQA, ARX, ARY, ARZ, AUM, AUQ, AWC, AWU, AYP, BAM, BFV, BVP, BVR, BYT, BZB, CABA, CDAA, CDAB, CDHA, CDHB, CGYA, CJSA, CJSB

1.9: 1X, 1Y, ABL, AFN, AGR, AHF, AJM, ALH, ANU, ARL, ASV, ASZ, ATD, AUU, AVB, AVF, AVG, AVQ, AWT, AWX, AXB, AXC, AXR, BJB, BKC, BKE, BLS, BLT, BMT, BPX, BPZ, BRB, BRM, BRR, BRS, BRU, BSU, BSV, BSW, BTB, BUK, BVK, BXE, BXF, BXJ

2.0: AAC, APK, AQY, ATM, ATU, AWA, AWF, AWG, AXA, AXW, AXX, AZG, AZH, AZJ, AZM, AZV, BDJ, BDK, BEH, BGB, BGW, BHD, BHW, BHZ, BKD, BKP, BLB, BLR, BLX, BLY, BMA, BMB, BMM, BMN, BMP, BMR, BNA, BPG, BPJ, BPW, BPY, BRC, BRD, BRE, BRF, BRT, BSS, BUL, BUY, BUZ, BVA, BVE, BVF, BVG, BVH, BVX, BVY, BVZ, BWA, BWA1, BWE, BWJ, BWT, BWV, BYD, BYK, BZC, CAAA, CAAB, CAAC, CAAD, CAAE, CAGA, CAGB, CAGC, CAHA, CAHB, CAWA, CAWB, CBAA, CBAB, CBAC, CBBA, CBBC, CBDA, CBDB, CBDC, CBEA, CBFA, CCHA, CCHB, CCTA, CCZA, CCZB, CCZC, CCZD, CDBA, CDBD, CDCA, CDLA, CDLB, CDLC, CDLD, CDLK, CDMA, CEGA, CFCA, CFFA, CFFB, CFFD, CFFE, CFGB, CFGC, CFGD, CFHA, CFHB, CFHC, CFHD, CFHE, CFHF, CFJA, CFPA, CGLA, CGLB, CGLC, CGLD, CGLE, CHHA, CHHB, CJAA, CJCA, CJCB, CJCC, CJCD, CKFB, CKFC, CKTB, CKUB, CKUC, CLCA, CLCB, CLJA, CLLA, CMEA, CMFA, CMFB, CMGB, CNEA, CNFA, CNFB, CNHA, CNHC, CPLA, CRBC, CRBD, CRFA, CRFC, CRLB, CRLC, CRMB, CRUA, CRVA, CRVC, CSHA, CSUA, CSUB, CSUD, CSUE, CUAA, CUNA, CUNS, CUPA, CUUA, CUUB, CUVA, CUVC



B Land Rover TD5 Injector Puller Model No. VS2541

Suitable for Land Rover Defender (1999 - 2007), Discovery II (1998- 2005). TD5 Diesel engine codes 10P, 15P, 16P. Includes a slide hammer.



C Turbo Adjustment Set - VAG Model No. VS2032

Specially designed spanner and split deep socket to assist in the removal, fitting and adjusting the turbo pressure capsule and turbo actuator on VAG engines. Set includes 1/4" Sq drive socket (10mm x 50mm) and spanner (10mm open-end & 12mm 12-point ring combination). Manufactured from Chrome Vanadium.

OEM Tools: T10422A, T10423

Applications: Golf V1 (5K), Golf Plus (52), Jetta (1K), Passat (3C), Passat CC (35), Scirocco (13), EOS (1F), Tiguan (5N), Transporter T5 (2010On 7J, 7H, 7G, 7F).



D Crankshaft Sensor 4mm Ball-End Hex Key 80mm Long Reach - VAG Model No. VS0584

Crankshaft sensor hex key 80mm long reach. Chrome Vanadium 4mm ball-end hex key. Fits a wide variety of VAG vehicles.



A Flywheel Locking Tool
VAG 1.4 TSi - Belt Drive
Model No. VSE6266

Suitable for VAG 1.4 TSi belt drive petrol engine.

Applications:

Audi: A1 (12-18), A1 Sportback (12-18), A3 (13-18), A3 Sportback (12-18), A3 Saloon (13-15), A3 Cabriolet (13-17), A6 (14-18), Q2 (16-18), Q3 (14-18), TT (14-18)

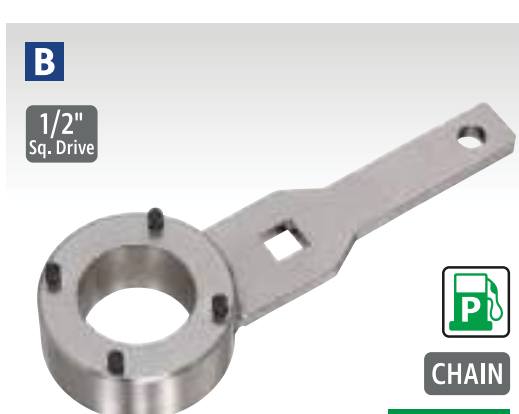
Seat: Alhambra (15-19), Ateca (16-18), Ibiza (13-17), Leon (12-18), Leon ST (13-18), Toledo (12-14)

Skoda: Fabia II (10-14), Octavia II (10-13), Octavia III (10-18), Praktik (10-15), Rapid (15-18), Rapid Spaceback (15-18), Roomster (10-15)

VW: Golf (14-16), Golf VI (08-13), Golf VI Estate (09-14), Golf VI Plus (09-13), Golf SV (14-17), Golf VII (08-17), Golf VII Estate (09-15), Golf Plus (09-14), Golf VII GTE (14-17), Jetta (12-18), Passat (15-18), Passat Alltrack (15-18), Polo (09-18), Sharan (15-18)

Engine Codes:

1.4 TSi: CGGA, CGGB, CHPA, CMBA, CPTA, CPVA, CPVB, CPWA, CUKB, CUKC, CRJA, CZDA, CZDB, CZEA, CXSA, CXSB



B Crankshaft Pulley Holding Wrench
VAG 1.8, 2.0 TFSi - Chain Drive
Model No. VSE6237

Essential tool required to counter-hold the crankshaft pulley whilst removing/tightening the crankshaft pulley bolt.

Applications:

Audi: A3 Saloon (13-15), A3/A3 Sportback (07-16), A3 Cabriolet (08-16), A4 (07-15), A4 Allroad (09-15), A4 Quattro (08-15), A5 Coupe/Cabriolet (07-16), A5 Sportback (09-17), A6 (12-14), TT (08-17), Q3 (11-16), Q5 (08-16)

Seat: Alhambra (10-15), Altea (06-15), Altea Freetrack (09-15), Exeo (10-13), Leon (09-17), Toledo (09-09)

Skoda: Octavia II (07-13), Octavia III (13-17), Superb II (08-15), Superb III (15-19), Yeti (09-13)

VW: Amarok (10-16), Beetle (13-16), CC (12-15), EOS (08-15), Golf V (09-13), Golf VI (09-13), Golf VII (13-16), Golf VI Cabriolet (12-14), Golf VII (12-15), Jetta (05-11), Transporter T5 (11-15), Passat (07-11), Passat (11-17), Passat Alltrack (12-16), Passat CC (08-12), Scirocco (08-14), Sharan (11-15), Tiguan (07-15)

Engine Codes:

1.8 TFSi: BYT, BZB, CABA, CABB, CABD, CDAA, CDAB, CDHA, CDHB, CJSa, CJSB, CJEB

2.0 TFSi: CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CCZD, CDNB, CDNC, CDND, CESA, CETA, CFKA, CFPA, CHHA, CHHB, CJKa, CJKB, CNCB, CNCD, CPLA, CPSA, CYNB



D Timing Tool Kit - Volvo, Land Rover - Chain Drive
Model No. VSE5050

Covers the range of Volvo 3.0 and 3.2 engines and the Land Rover Freelander 3.2i6.

OEM Tools:

Volvo: 999-7263, 999-7264, 999-7272, 999-7257, 999-7261

Land Rover: 303-1225, 303-1226, 303-1219, 303-1223

Applications:

Volvo: S60 (10-16), S80 (07-15), XC60 (08-15), XC70 (06-15), XC90 (10-14), V60 (10-15), V70 (10-15)

Land Rover: Freelander II (11-14)

Engine Codes:

3.0 Turbo: B6304T2, B6304T4

3.2: B6324S, B6324S5

3.2i6: B6324S



E Crank Pulley Holding Tool - Ford, Volvo 1.8, 2.0, 2.3 16v Duratec Chain Drive
Model No. VSE5847

Counter-holds the crankshaft pulley while the pulley retaining bolt is loosened/tightened. Also suitable for some Volvo vehicles.

OEM Tools:

205-072, 999-7128

Applications:

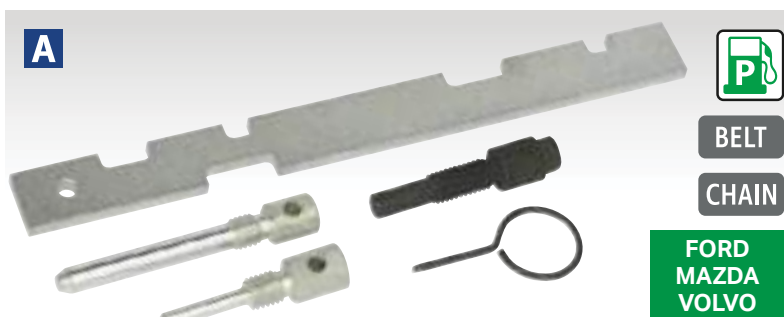
Ford: C-Max (07-10), Fiesta (95-12), Focus (98-11), Focus C-Max (06-15), Galaxy (06-15), Mondeo (93-15), S-Max (06-15), Transit (06-12)

Volvo: C30 (06-13), S40 (06-12), S80 (07-11), V50 (04-12), V70 (07-11)

Engine Codes: AOBA, AOBC, AODA, AODB, AODE, AOWA, AOWB, B4184S8, B4184S11, B4204S3, B4204S4, CDBB, CGBA, CGBB, CHBA, CHBB, CJBA, CJBB, CSDA, CSDB, GZFA, GZFB, GZFC, N4JB, Q7DA, QQDA, QQDB, QQDC, SEBA, SEWA, SYDA, TBBA, TBBB, TBWA, TBWB

Associated Tool: VSE5515 - Timing Tool Kit - Ford - 1.25,

1.4, 1.6, 1.8, 2.0, 2.3 16v Duratec - Belt/Chain Drive (see page 406)



A Timing Tool Kit - Ford, Mazda, Volvo 1.25, 1.4, 1.6, 1.8, 2.0, 2.3 16v Duratec - Belt/Chain Drive Model No. VSE5515

Covers the complete range of Ford Duratec engines 1.25, 1.4, 1.6, 1.8, 2.0 and 2.3 16v in both belt and chain drive variants.

OEM Tools:

Ford: 303-1054, 303-507 (21-210), 303-620 (21-163), 303-574, 303-748, 303-376 (21-162B), 303-376B

Mazda: 49 JE01 061, 303-574, 49 JE02 061, 303-465, 49 JE01 054

Volvo: 999 7152, 999 7151

Applications:

Ford: B-Max (15-17), C-Max (07-10), Cougar (98-01), Fiesta (95-17), Focus (98-11), Focus C-Max (03-07), Fusion (02-12), Galaxy (06-15), Maverick (01-07), Mondeo (93-15), Puma (97-02), S-Max (06-15), Tourneo Connect (02-06), Transit (06-12), Transit Connect (02-06)

Mazda: 121 ZQ (95-00), 2 DY (02-07), 3 BK (03-09), 3 BL (09-15), 5 CR (05-10), 5 CW (10-12), 6 GG/GY (02-07), 6 GH (07-15), MPV LW (02-05), MX-5 NC (05-16), Tribute EP (04-06)

Volvo: C30 (06-13), S40 (06-12), S80 (07-11), V50 (04-12)

Engine Codes:

1.25 16v Belt: DHA, DHB, DHC, DHD, DHE, DHF, DHG, F8JA, F8JB, FUJA, FUJB, M7JA, M7JB, SNJA, SNJB, SNJC, SNJD, STJA, STJB, STJC, STJD

1.4 16v Belt: ASDA, ASDB, FHA, FHB, FHD, FHE, FHF, FXDA, FXDB, FXDC, FXDD, FXJA, FXJB, FXJC, RTJA, RTJB, SPJA, SPJC, SPJE, UTJA

1.6 16v Belt: B4164S3, FYDA, FYDB, FYDC, FYDD, FYDH, FYJA, FYJB, FYJC, HWDA, HWDB, IQJA, IQJC, L1F, L1J, L1L, L1N, L1Q, L1T, L1V, L1W, SHDA, SHDB, SHDC

1.8 16v Belt: EYDB, EYDC, EYDD, EYDE, EYDF, EYDG, EYDI, EYDJ, EYDL, EYPA, EYPC, RKA, RKB, RKF, RKH, RKJ, RKK

1.8 16v Chain: CDBB, CGBA, CGBB, CHBA, CHBB, CSDA, CSDB, Q7DA, QQDA, QQDB, QQDC, L8, B4184S11, B4184S, B4184S8

2.0 16v Belt: ALDA, EDBA, EDBB, EDBC, EDBD, EDDB, EDDC, EDDD, EDDF, HMDA, NGA, NGB, NGC, NGD, YF

2.0 16v Chain: B4204S3, B4204S4, AOBA, AOBC, AODA, AODB, AODE, AOWA, AOWB, CJBA, CJBB, LF, N4JB, SYDA, TBBA, TBBB, TBWA, TBWB

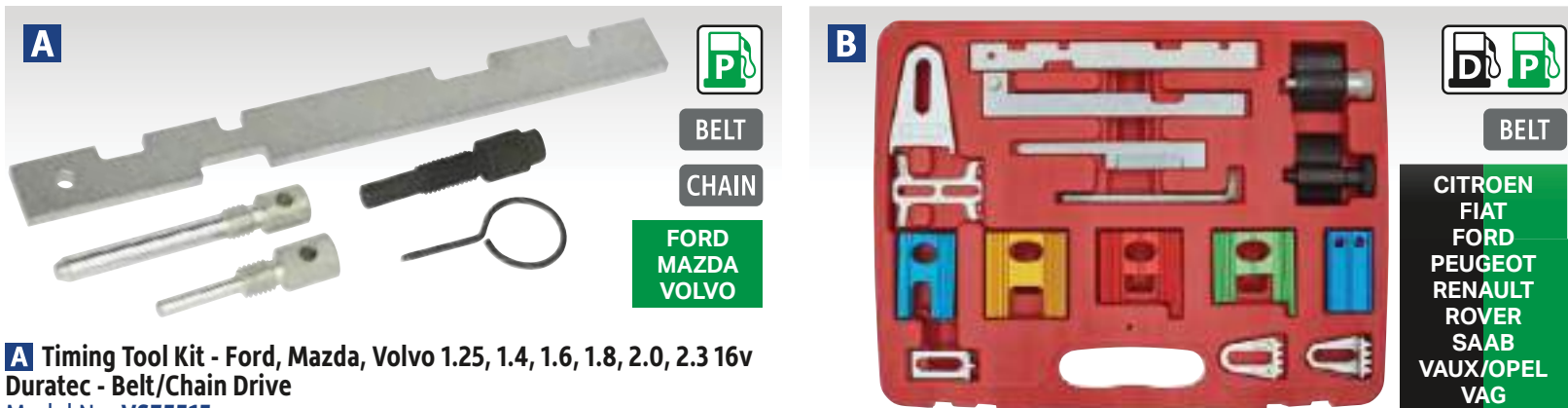
2.3 16v Chain: GZ, GZFA, GZFB, GZFC, L3, SEBA, SEWA



D Universal Twin Camshaft Locking Tool Model No. VSE888

Designed to lock twin camshafts in the timed position when replacing the timing belt. Huge range of application coverage from closely positioned sprockets on many twin cams to more widely spaced camshaft/injector pump sprockets on certain diesel engines. Features fine tooth adjustment and extension bar for increased applications. Supplied in storage case.

Reach: 35-120mm



B 16pc Timing Tool Kit - Belt Drive Model No. VSE180

Camshaft, crankshaft and flywheel locking tools with wide general coverage suitable for a range of popular diesel and petrol engines. Suitable for use when carrying out timing belt changes. Includes flywheel locking tools for VW with round and oval profile teeth.

Applications: Audi, Citroen, Fiat, Ford, Peugeot, Renault, Rover, Saab, Seat, Skoda, Vauxhall/Opel, VW



C Universal Pulley & Fan Clutch Holder Set Model No. VS4844

Designed to remove and install fan clutch and rotate or restrain the camshaft pulley. Adjustable jaw spread and interchangeable pins.



E Universal Pulley & Fan Clutch Holder Set Model No. VS783

Designed to remove and install fan clutch and rotate or restrain the camshaft pulley. Adjustable jaw spread and interchangeable pins. Supplied in storage case.

Jaw Spread Range: 33-243mm

Pin Sizes: Ø5.5, 7.5, 9.5, 16mm (2 of each)



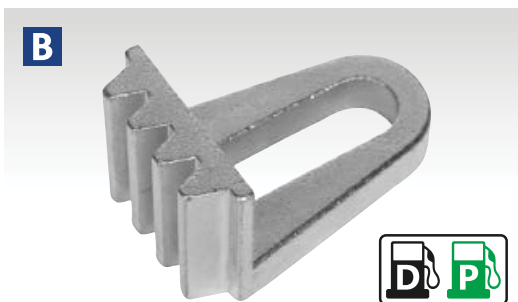
A Universal Twin Camshaft Holding Tool
Model No. **VSE889**

Designed to hold twin camshafts in their timed position by using sockets to locate onto the central camshaft fixings. Tool will hold the camshafts in position when replacing the timing belt or chain. Choice of adaptors gives a huge range of application coverage on many twin cam engines.



D Flywheel Turning Wrench
Model No. **VS175**

Locates in starter ring gear teeth. Spring loaded catch for ease of use.



B Petrol/Diesel Flywheel Locking Tool
Model No. **VSE2394**

Applications: Citroen, Fiat, FSO, LDV, Mercedes, Peugeot



C Petrol/Diesel Flywheel Locking Tool
Renault
Model No. **VSE2395**

Applications: D7F Petrol, F8Q/F9Q Diesel



BELT

**BOSCH VE
KIKI
NIPPON
CAV ROTODIESEL**

E 10pc Fuel Pump Timing Kit - Belt Drive
Model No. **VSE2242**

Suitable for timing distributor type diesel fuel pumps on engines fitted with Bosch VE Rotary, Kiki, Nippon Denso, CAV Rotodiesel - top entry port. These systems are mainly found on cars and light commercial vehicles. Supplied with dial gauge in storage case.

Entry Port Sizes: M8, M10, M12, M14



BELT

FORD

F Petrol/Diesel Flywheel Locking Tool Set
Ford - Belt Drive
Model No. **VSE5945**

Associated tool for use in conjunction with a number of Ford timing tool kits for locking the crankshaft in timed position by locating into flywheel. Also suitable for counter-holding crankshaft when releasing or tightening crankshaft pulley bolts. Used on a wide range of Ford engines, particularly diesel 1.8TDdi/TDCi and 2.0TDCi, petrol 1.6Ti-VCT and later 1.25/1.4 16v Duratec.



G 12pc Crankshaft Pulley Removal Tool Set
Model No. **PS997**

Enables fast and simple removal of crankshaft and auxiliary pulleys - even in a confined space. Chrome Molybdenum legs with thin jaws allow removal of pulleys with narrow tolerance between pulley and block. Supplied in storage case.

Depth Range: 68-88mm
Diameter Range: Ø40-120mm, 132-195mm



H 550mm 1/2" Sq Drive Impact Bar
Model No. **VS786**

Specially designed for use where nuts/bolts are not easily accessible for air impact tools, or air is not available. Ideal tool for loosening crankshaft pulley bolts. Simply fit the required impact socket, keeping the arm at a right angle to the shaft for maximum torque, and strike the top of the tool with a hammer to shock the nut or bolt loose. Features hand guard for extra safety.

Drive: 1/2" Sq
Length: 550mm



A Universal Belt Tension Tester
Model No. VSE120

Ensures accurate and consistent assessment of timing belt tension. Simple-to-use, full instructions included. Suitable for all common types of timing belt. Set includes belt gauge, tension gauge, tension buttons and calibration strip. Supplied in storage case.

BELT



B Belt Tensioning Gauge
Model No. VSE110

Ensures accurate measurement of belt tension. Clear increment and dual scale for ease of use. Tension chart guide is included. Suitable for belts of varying thickness.

BELT



C Auxiliary Stretch Belt Removal/Installation Tool
Model No. VS787

Designed for the recommended removal and installation of elasticated or stretch drive belts fitted to modern auxiliary drive systems, such as the alternator or power steering. Prevents damage to the pulley and prolongs the life of the belt. Two tools included, one for installation and one for removal. Fits most crankshaft pulleys. Supplied in storage case.

BELT



D 14pc Belt Tensioner Wrench Set
Model No. VS789

Interchangeable auxiliary and timing pulley belt tensioner wrench set. A time-saving and effective method for the professional technician.

Sizes: 12, 13, 14, 15, 16, 17, 18, 19mm, TRX-Star*, E10, E12, E14, E16, E18

BELT



E Roller Tensioner Operating Tool
Model No. VSE5798

Essential tool for adjusting the timing belt tension via the tensioner roller. Suitable for a wide range of diesel engines.

BELT



Applications:

Alfa Romeo: 145 (98-01), 146 (98-01), 147 (04-10), 156 (97-06), 159 (05-10), 166 (98-07), Brera (05-11), Giulietta (10-18), GT (04-10), Mito (08-16)

Fiat: 500L (13-16), Brava (98-00), Bravo (98-02), Croma (05-11), Multipla (99-00), Marea (99-03), Ducato (01-02), Grande Punto (08-10), Idea (04-08), Punto (12-13), Stilo (01-06)

Saab: 9-3 (04-12), 9-5 (10-12)

Suzuki: SX4 (13-18)

Vauxhall/Opel: Astra H (04-11), Astra J (13-18), Cascada (13-15), Insignia (11-17), Signum (04-08), Vectra C (02-08), Zafira (05-12)

Engine Sizes: 1.6D, 1.9D, 2.0D, 2.2D, 2.4D



F Ratchet Action Auxiliary Belt Tension Tool Kit
Model No. VS784

Tool kit for releasing the tensioner load from auxiliary belts when removing/installing the belt. Ratchet wrench with multi-positional extension handle for improved access to tensioner. Kit includes sockets, hex bits and square drives. Covers a wide range of spring loaded tensioner applications.

Contents: Ratchet Wrench, Multi-Positional Extension Handle, Sockets; 8, 12, 13, 14, 17, 18, 24mm, 5/8", Hex Bits; 6, 8, 10mm, Square Drive Adaptors; 3/8", 1/2"

BELT



G Auxiliary Stretch Belt Removal/Installation Tool
Model No. VS788

Prevents damage to the pulley and prolongs the life of the belt. Presented in an interlocking lightweight and compact design. Suitable for most leading brands and models.

BELT



H Belt Holder
Model No. VSE880

Belt holder with magnetic base. Useful time-saving tool for holding any type of belt onto a pulley during replacement of the belt.

BELT



F



A 6pc Compression Tester Model No. VSE300D

Deluxe

Features 300psi gauge with large rubber bumper. Includes extension for deep-seated plugs and flexible extension hose. Suitable for petrol engines with 10, 12, 14 and 18mm spark plug threads. Supplied in storage case.



D 3pc Compression Test Kit Model No. CT951



Fitted with Ø65mm gauge having two scales (psi and kPa), reading from 0-300psi and 0-2000kPa. Includes quick coupling 150mm rigid stem with cone-type adaptor and 320mm flexible adaptor with 14 and 18mm screw in adaptors. Supplied in storage case.



G Spark Plug Thread Repair Kit Model No. VS301



Comprehensive and time-saving kit of spark plug thread repair tools. Especially suitable for the repair of deep-seated plug configurations. Incorporates taper and plug taps together with integrated ream. Stepped tap ensures correct alignment of cutter in existing spark plug hole. Extension tools allow easy-access to the bottom of the plug recess. Includes set of plug inserts.

Tap:	M14 x 1.25mm
Step Taps:	M14 x 1.25, M16 x 1.25mm
Insert Lengths:	9.4, 15mm
Replacement Inserts (Packs of 10):	VS301.9 (9.4mm), VS301.15 (15mm)



B 8pc Compression Test Kit Model No. CT955

Compression tester fitted with Ø63mm gauge reading up to 300psi (20kg/cm²). Kit includes 130mm straight and angled push-on connectors, 300mm flexible extension with 10, 12, 14 and 18mm adaptors. Supplied in storage case.



E Cylinder Leakage Tester - 2-Gauge Model No. VSE2020



Designed to detect a variety of common engine faults including worn piston rings, worn valves, cylinder head cracks and blown head gaskets. Twin gauge manifold shows percentage of cylinder leakage and cylinder pressure. Supplied in storage case with instructions.

Number of Gauges:	2
Reading:	Cylinder Leakage %, Cylinder Pressure psi/bar
Spark Plug Suitability:	10, 12, 14mm



H Long Reach Compression Tester Adaptor Model No. VS200/A

Valved extension enables access to deep seated plugs. Features M14 thread and two thread adaptors M10 & M12 that allow compression testing on most modern engines.

Thread Sizes:	M10, M12, M14
---------------	---------------



C 10pc Compression Test Kit Model No. VSE206

Ø59mm Gauge fitted with 250mm hose and quick connect. Scale reads from 0-21bar(0-300psi). Kit includes four extension hoses, seven plug thread adaptors from 10 to 18mm and a self-sealing quick connector. Suitable for most petrol engine cars and light commercials. Supplied in storage case.



F 4pc 3/8" Sq Drive Spark Plug Socket Set Magnetic Model No. AK65561

Forged, Chrome Vanadium steel, 3/8" Sq drive WallDrive® sockets with magnetic plug retention, external hex and polished chrome finish. Set includes thin walled 16mm socket, for where clearance is tight.

Drive:	3/8" Sq
Sizes:	14, 16, 21mm, 16mm Thin Wall
Length:	63mm

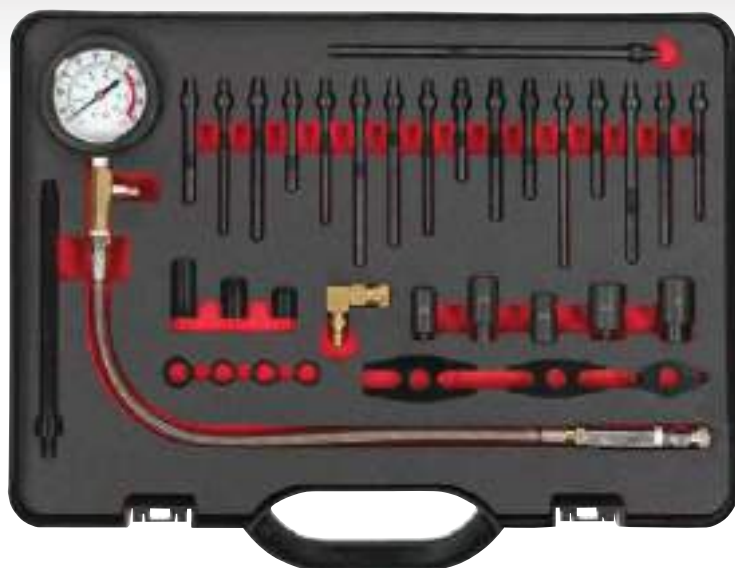


I Video Borescope - Articulated Model No. VS8233A

Portable articulated borescope supplied with 70mm TFT colour display. Mini waterproof (IP67) camera with integral light (Ø6mm) mounted on 800mm flexible 2-way articulated probe. Using an attached dial, the camera head angle can be changed by up to 350° without having to remove camera from inspection area. Using 8GB micro SD card (supplied) up to 9hrs of video and 20000 still images can be recorded. Videos and still images can be downloaded to a PC via USB data cable (supplied). CMOS camera with six LED probe light and a focus distance of 20-50mm for fine control of light output and clear pictures. Potential applications; automobile maintenance, engine inspection, pipe line exploration etc.

Camera Probe Length:	800mm
Camera:	Ø6mm
Mirror Flip/Rotate Function:	✓
Pod Length:	20mm
Power Source:	4 x AA (not included)

A



A Compression Test Kit

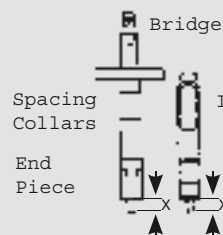
Model No. VSE3158

Up-to-date kit for compression testing on diesel vehicles. Contains 17 of the most common dummy glow plugs, covering 29 glow plug types, 33 manufacturers and over 500 model/engine variants from 1999 to 2015. Also includes a set of injector adaptors if an alternative method of testing is required. See instructions on Sealey website for complete vehicle applications.

Glow Plug Applications: Alfa Romeo, Audi, BMW, Cadillac, Chrysler, Citroen, Dacia, Dodge, Fiat, Ford, Honda, Jaguar, Jeep, Lancia, Land Rover, Mazda, Mercedes, MG, Mini, Mitsubishi, Nissan, Peugeot, Porsche, Renault, Rover, Saab, Seat, Skoda, Suzuki, Toyota, Vauxhall/Opel, Volvo, VW

Injector Adaptors: M17, M20, M24

Gauge Pressure Range: 0-70bar(0-100psi)



VSE3155, VSE3156 & VSE3158 INJECTOR ADAPTORS

These kits contain a full range of injector and glow plug adaptors. Also included is a set of bridge and claw adaptors allowing the user to build a dummy injector with the same profile as the original injector. Ideal for commercial, agricultural, marine and static diesel engines.

B



B Master Compression Test Kit

Model No. VSE3155

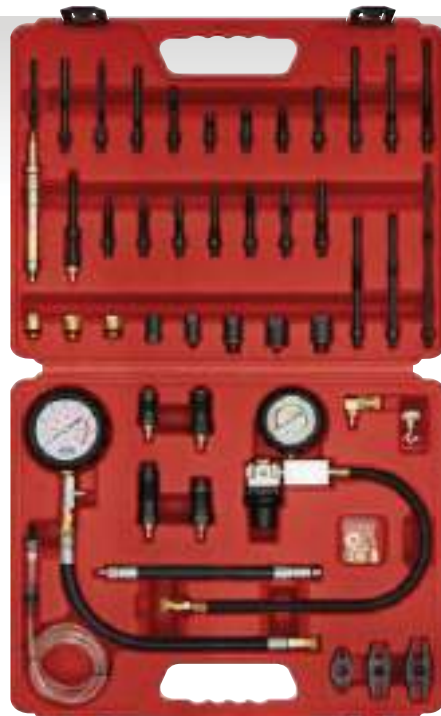
A comprehensive kit for testing the compression on both diesel and petrol vehicles. Features 600psi gauge with large rubber bumper, straight and right angled quick connect fittings and an extensive range of spark/glow plug and injector adaptors. This kit will cover most modern car, van, truck, bus, agricultural and marine engines. Supplied in storage case. See instructions on Sealey website for complete vehicle applications.

Spark Plug Sizes: 10, 12, 14, 18mm

Glow Plug Adaptors: Alfa Romeo, BMW, Chrysler, Citroen, Daewoo, Fiat, Ford, Honda, Hyundai, Isuzu, Jeep, Kia, Lada, Lancia, Land Rover, LDV, Mazda, Mercedes, MG, Mitsubishi, Nissan, Peugeot, Renault, Rover, Saab, Ssangyong, Suzuki, Toyota, VAG, Vauxhall/Opel, Volvo

Injector Adaptors: M20, M22, M24 & Ford Stanadyne Injectors plus Clamp-On Injectors

C



C Compression, Leakage & TDC Kit

Model No. VSE3156

A comprehensive kit for testing the compression and leakage on both diesel and petrol vehicles. Features 600psi gauge with large rubber bumper, straight and right angled quick connect fittings and an extensive range of spark/glow plug and injector adaptors. Includes TDC finder, ideal for use when the engine has no crankshaft timing marks. Supplied in storage case. See instructions on Sealey website for complete vehicle applications.

Spark Plug Sizes: 10, 12, 14, 18mm

Glow Plug Adaptors: Alfa Romeo, BMW, Chrysler, Citroen, Daewoo, Fiat, Ford, Honda, Hyundai, Isuzu, Jeep, Kia, Lada, Lancia, Land Rover, LDV, Mazda, Mercedes, MG, Mitsubishi, Nissan, Peugeot, Renault, Rover, Saab, Ssangyong, Suzuki, Toyota, VAG, Vauxhall/Opel, Volvo

Injector Adaptors: M20, M22, M24 & Ford Stanadyne Injectors plus Clamp-On Injectors

D



D 8 & 10mm Damaged Glow Plug Removal Set

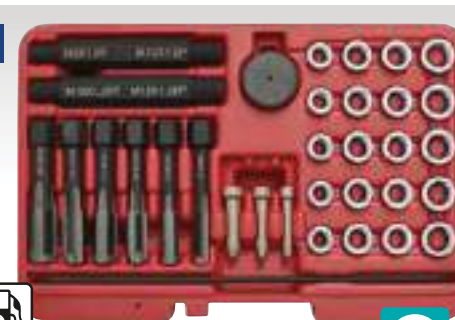
Model No. SX0408

Designed to remove damaged/broken glow plugs from cylinder heads. Suitable for glow plugs with an M8 x 1mm and M10 x 1mm thread. Set includes all required adaptors for drilling, centring and pulling for the safe removal of glow plug. Supplied in storage case.

Tap Dimensions: 1/4NF28, M8 x 1, M10 x 1mm

Glow Plug Applications: M8 x 1, M10 x 1mm

E



E 33pc Glow Plug Thread Repair Set

Model No. VS311

Fast and effective remedy for damage to cylinder head glow plug threads. Set includes tools for the precise insertion of threaded inserts into the head, and features a unique tap guide system to ensure their correct alignment. Includes four sizes of threaded adaptors suitable for common sizes of glow plug. See page 498 for full specifications.



A



A Compression Gauge, Hose & TDC Base Kit Model No. VSE3157

Diesel engine compression gauge, which reads up to 600psi. Use in conjunction with Sealey glow plug adaptor kits (Model No's VSE3151, VSE3152, VSE3153). Features TDC finder which connects onto glow plug adaptors. Supplied in storage case with extra storage space.

Associated Tools: VSE3151, VSE3152, VSE3153

E



B - D Compression Adaptor Kits

Diesel engine glow plug compression test adaptor kits that cover a wide range of modern vehicles. For use in conjunction with Sealey Diesel Compression Gauge, Hose & TDC Base Kit (Model No. VSE3157). See Sealey website for vehicle applications.

B

Model No. VSE3151

Applications: BMW, Mercedes, Rover, VAG

C

Model No. VSE3152

Applications: Ford, Mazda, PSA

D

Model No. VSE3153

Applications: Alfa Romeo, Fiat, Honda, Vauxhall/Opel

SELECT YOUR OWN MIX OF INJECTOR ADAPTORS

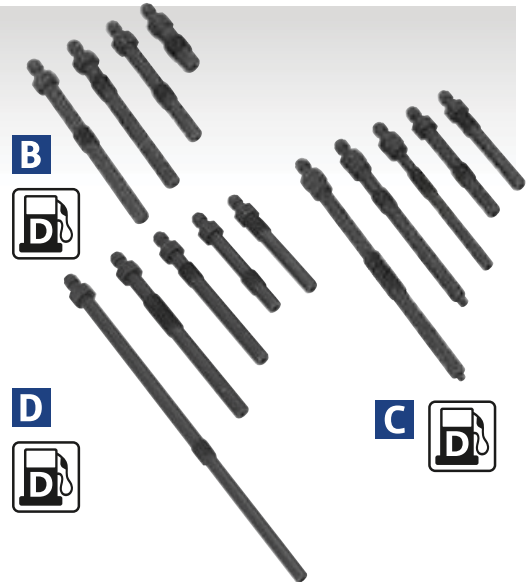
The three adaptor kits above are designed to be used in conjunction with Sealey Diesel Compression Gauge, Hose & TDC Base Kit (Model No. VSE3157).

Simply buy the base kit and order as many or as few of the adaptor kits as you need.

E Compression Test Kit Model No. VSE204

Ø60mm Gauge with heavy-duty rubber bumper, 400mm of hose and quick connector. Suitable for testing cars and light commercial vehicles with direct or indirect injection. Pressure relief valve allows repeated on-vehicle tests. Includes 90° coupling adaptor for limited access applications. Supplied in storage case.

Applications: Audi, Citroen, Dacia, Daihatsu, Fiat, Ford, Isuzu, Lancia, Land Rover, Leyland/DAF, Mazda, Mercedes, Mitsubishi, Nissan, Peugeot, Renault, Rover, Seat, Toyota, Vauxhall/Opel, Volvo, VW



F



Master



F Master Compression Test Kit Model No. VS2044

The extensive range of glow plug and injector adaptors enable this kit to cover the vast majority of car, van, truck, bus, agricultural and marine diesel engines. Supplied in storage case with preformed liner and foam filled lid.

Applications:

Glow Plug Adaptors: Alfa Romeo, BMW, Chrysler, Daewoo, Fiat, Ford, Hyundai, Isuzu, Land Rover, LDV, Mazda, Mercedes, Mitsubishi, Nissan, PSA, Renault, Saab, Suzuki, Toyota, VAG, Vauxhall/Opel, Volvo

Injector Adaptors: M20, M22, M24 & Ford Stanadyne Injectors plus Clamp-On Injectors

F



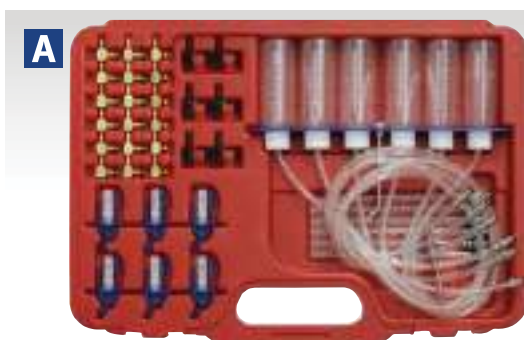
G High Pressure Pump Test Kit Model No. VS216

Essential tool for accurately measuring the high pressure fuel circuit of diesel common rail systems. Features 2,000bar gauge, pressure relief valve and high pressure flexible hoses. The kit also includes a set of dummy pump regulator and injector pipe blanks. Kit allows for a variety of tests to be conducted:

- ✓ Engine cranking/running pressure test
- ✓ Pump pressure regulator test
- ✓ Maximum pump pressure test
- ✓ Injector leakage test

Gauge Pressure Range:	0-2000bar
Hose Length:	500mm (x4)
Hose Fittings:	M12 x 1.5 (x2), M14 x 1.5 (x2)
Hose Fitting Adaptors:	M12 x 1.25 (x2), M14 x 1.25 (x2)
Dummy Regulator Applications:	Bosch CP1, Bosch CP3, Delphi DFP1/DFP3, Denso HP1, HP2, Denso HP3, Siemens DCP1, Siemens DCP2
Injector Pipe Blanks:	M12 x 1.5 (x6), M14 x 1.5 (x6)

For our Air Impact Glow Kit, see page 732



Master



A Master Injection Leak Back Kit Bosch/Delphi/Denso Model No. VS2048

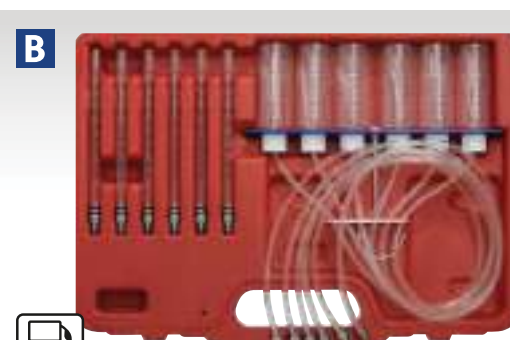
Updated kit designed to measure return fuel flow on diesel vehicles up to 6-cylinders, fitted with common rail injection system. Identifies worn, blocked or inoperative injectors quickly and easily. Contains measurement tubes for short term tests and measurement bottles for long term, more accurate evaluation. Master kit includes range of adaptors to suit Bosch, Delphi, New Delphi and Denso injectors for comprehensive coverage of common rail diesel vehicles.



C Injector Nozzle Tester Model No. VS2058

Enables the testing of injectors under pressure. Fitted with Ø88mm gauge with rubber bumper reading both psi and bar. Ideal for checking of atomisation pattern and opening pressure. Transparent reservoir fitted with fine filter. Supplied with two injector connection pipes.

Gauge Scale: 0-600bar/0-8700psi
Connecting Pipework: M12/M14



B Injector Flow Test Kit - Common Rail Model No. VS2046

Designed to measure return fuel flow on diesel vehicles up to 6-cylinders fitted with common rail injection system. Identifies worn, blocked or inoperative injectors quickly and easily. Supplied with measurement tubes for short term tests and measurement bottles for long term, more accurate evaluation.



D 12pc Fuel Line Blanks Set Model No. VS557

Set of 12 diesel fuel line blanks, mainly fitted to Ford, PSA and Renault. Contains six pairs of male and female connectors covering three connector types. Ideal for stopping the flow of fuel after pipework has been disconnected.



E Fuel Injection Pressure Test Kit Model No. VSE210

Comprehensive kit of adaptors and fittings for modern petrol fuel injection systems. Components fitted with quick coupling system and safety valve to prevent inadvertent discharge of fuel under pressure. Supplied with large high pressure gauge reading 0-145psi and 0-1000kPa and a small low pressure gauge for accurate low pressure readings. Pressure release valve fitted with long drain hose allows safe recovery of fuel.



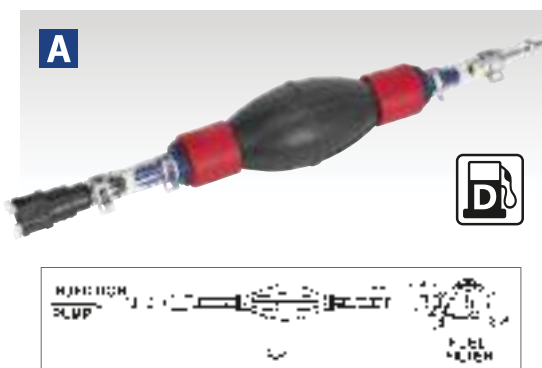
F Fuel Injection Pressure Test Kit Model No. VSE212

Comprehensive kit of hoses, adaptors and fittings for testing the pressure on modern petrol fuel injection systems. Fitted with quick couplings and safety valve to prevent inadvertent discharge of fuel under pressure. Supplied with Ø92mm single high pressure gauge with rubber bumper, reading 0-140psi and 0-10bar. Pressure release valve fitted with long drain hose allows safe recovery of fuel.



G Fuel Injection Pressure Test Kit - Test Port Model No. VSE211

Comprehensive kit of adaptors and fittings for modern Schrader test port fuel injection systems. Components fitted with quick coupling system and safety valve to prevent inadvertent discharge of fuel under pressure. Supplied with large high pressure gauge reading 0-145psi and 0-1000kPa. Gauge has hanging hook and protective bumper. Pressure release valve fitted with long drain hose allows safe recovery of fuel.



A Fuel Priming Kit - Vauxhall/Opel Model No. VS055

Essential for reintroduction of fuel into fuel pump following maintenance such as fitting of new diesel filter, or following drainage of fuel tank. Must be used whenever fuel system is disturbed.

Applications: Vauxhall/Opel; 2.0Di, 2.2Di
Hose Bore: Ø9mm



D Fuel Priming Kit - Ford Model No. VS552

Designed to work in conjunction with the low pressure fuel circuit, to reintroduce fuel back up to the fuel line after maintenance. Clear pipes allow visual detection of any air within the fuel system or being inadvertently drawn into the fuel line. Model has a valve to work in conjunction with Ford IDS diagnostic equipment, allowing the vacuum to be monitored.



G Oil/Petrol/Diesel Transfer Syphon Pump Model No. VS560

Suitable for the syphoning of oil, petrol, diesel and non-aggressive fluids. Supplied with intake and discharge hose sets. Delivers approximately 9L/min.

Hose Size: Ø13mm x 1m (x2), Ø18mm x 1m (x2)



C Fuel Priming Set Model No. VS555

A comprehensive fuel priming set fitted with the latest male and female quick connectors. Designed to work in conjunction with the low pressure fuel circuit, to reintroduce fuel back up to the fuel line after maintenance. Clear pipes allow visual detection of any air within the fuel system or being inadvertently drawn into the fuel line.

Applications: Fiat, Ford, Land Rover, Mercedes, PSA, Renault, Rover, Vauxhall/Opel



H 1.5L Fuel Retriever Model No. VS556

Designed for both petrol and diesel vehicles, to retrieve excess fuel from fuel lines before maintenance. Eliminates the risk of fuel spills and damage to pipes if clamped. Supplied with quick release connectors, commonly found on PSA and Vauxhall/Opel vehicles, plus two universal connectors for older vehicles.

Applications: PSA, Vauxhall/Opel
Capacity: 1.5L

B Fuel Pressure Gauge Set Model No. VS550

Comprising of two gauges for positive/negative and main pressure testing on low-pressure delivery fuel circuit found on common rail systems. Compatible with 9.98mm button type connection system. Suitable for use with Model No's VS555 and VS552 for those systems not supported by 9.98mm button type connections. Can be connected in situ with fuel line for real time running pressure. Quickly identifies fuel related problems.



E Large Fast Flow Fluid Transfer Tool Model No. VS070

Extra-large 175cc bulb for fast fluid transfer. One-way ball valve draws fluid up, starting syphon process for continuous flow. Fitted with two 1/2" hose connection points. Ideal for transferring large volumes of fluids. Suitable to use with petrol/diesel, AdBlue®, low viscosity oils, antifreeze, screenwash and water.

Hose Bore: Ø13mm



F Fuel Pump Priming Tool Model No. VS071

Designed to be used on the low pressure fuel circuit on commercial vehicles, to reintroduce fuel back up to the fuel line after maintenance.

Hose Bore: Ø10-14mm



I Fuel Pump Priming Tool Model No. VSE055

Required for priming injection pump following diesel filter change, drainage of fuel tank or any other disturbance of the fuel system. Supplied with two fuel pipe clips.

Hose Bore: Ø9mm



A 9pc Fuel Tank Sender Spanner Set Model No. VS6421

Set of three different size spanners for removing and refitting fuel tank sender mounting rings. Includes three and two leg configurations ranging from Ø85 to Ø170mm.

Drive:	24mm Hex
Legs:	2, 3
Capacity:	2-Leg; Small - Ø85-125mm, Large - Ø112-170mm, 3-Leg; Ø110-170mm



D Fuel Tank Sender Spanner 3-Leg Ø75-160mm Model No. VS6423

For removing and refitting fuel tank sender mounting rings.

Drive:	24mm Hex
Legs:	3
Capacity:	Ø70-165mm



G Fuel Feed Pipe Pliers Model No. VS0453

Suitable for releasing connections on fuel pipes during maintenance or when replacing fuel filters. Designed to compress the quick connect lugs for easy removal without damaging the connector.

Applications: Audi, Ford, Mercedes (M-Class), Vauxhall/Opel, VW



J Fuel Feed Pipe Pliers Model No. VS0458

Aluminium alloy construction with profiled head. Suitable for releasing connections on in-line fuel line filters during servicing and maintenance.

Applications: Alfa, Fiat, Lancia, Skoda, VAG, Volvo



K Ø108mm 3/8"Sq Drive Fuel Filter Wrench Peugeot/Citroen/Renault Model No. VS6430

Suitable for PSA and Renault vehicles fitted with HDi diesel engines. This filter key is required when replacing the fuel filter cartridge.



B Fuel Filter Key Ford Transit Model No. VS6428

For removing and refitting fuel filter bowl when replacing the fuel cartridge.

Applications:	Ford Transit 2.2TDCi (120n)
Drive:	1/2"Sq
Flutes:	6
Size:	115mm



E Fuel Line Pliers - VAG Model No. VS0427

Suitable for fuel lines on VAG group vehicles with sprung hose clips. Rotating jaws for easy-access to hose clips in confined spaces. Spring loaded jaws.



H 17mm Multiple Angle Fuel Pipe Wrench - VAG Model No. VSE5330

Fuel pipe wrench, 17mm multiple angle with offset design. Suitable for removing and installing the fuel pipes on VAG TDi engines. Manufactured from Chrome Vanadium.



L Remote Action Button Clip Pliers Model No. VS551

Long reach tool designed for awkwardly positioned button clips found on fuel circuits, power steering, brake fluid, air conditioning and gear boxes. Flexible cable and compact head help operation in confined spaces.

Length:	650mm
----------------	-------



C Fuel Filter Removal Kit Vauxhall/Opel Model No. VS2065

Originally designed to remove fuel filter on Vauxhall/Opel vehicles fitted with 1.3D and 1.9D CDTi engines. Also fits alternative makes of vehicle that share the same engine or fuel filter. Filter housing fits into the plastic holder using a vice, so the key can be used to unscrew the housing cap without causing damage.

OEM Tools: EN-46784-010/020

Applications: Alfa Romeo, Citroen, Fiat, Peugeot, Saab, Suzuki, Vauxhall/Opel - 1.3 CDTi/JTD/DDiS, 1.9 CDTi/JTD/TiD, 2.0, 2.2, 2.8, 3.0 JTD/HDi



F Fuel Filter Key - VW/Volvo 2.0D, 2.4D, 2.5TDi Model No. VS6427

For removing and refitting the fuel filter cap when replacing the fuel cartridge on 2.0D, 2.4D and 2.5TDi diesel engines found in VW and Volvo vehicles.

OEM Tools: T50011 / 9997084

Applications: VW; Crafter (06-13), Volvo; C30 (06-10), C70 (07-10), S40 (04-10), S60 (01-14), S80 (01-14), V50 (04-10), V60 (10-14), V70 (01-14), XC60 (08-14), XC70 (02-14), XC90 (02-15)



I 32mm 1/2"Sq Drive Fuel Filter Socket Ford 2.0TDCi Model No. VS6450

Fits Ford Transit MK8 2.0TDCi 2016on. Manufactured from Chrome Vanadium steel. Cut-out in the socket clears the fuel drain valve.

Drive:	1/2"Sq
Size:	32mm
Applications:	Ford Transit MK8 2016 onwards



M Ø119mm x 6pt Diesel Fuel Filter Wrench Model No. VS6429

Fuel filter wrench designed for Fiat, Alfa Romeo, Lancia, Vauxhall/Opel with Diesel engines. Use with a 3/8"Sq Drive torque wrench.

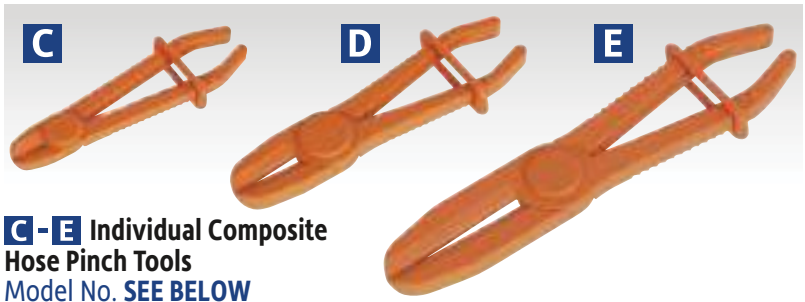
Applications: Alfa Romeo, Lancia, Vauxhall; Vectra C, Signum, Astra H, Corsa C, Combo

Drive:	3/8"Sq
Size:	119mm x 6-point profile



A 21pc Fuel & Air Conditioning Disconnection Tool Kit
Model No. VS0457
 Comprehensive kit for separating automotive air conditioning hoses and fuel lines. Suitable for a wide variety of vehicles including, amongst others, Ford and Vauxhall/Opel.

Contents: Spring Lock Couplings; 3/8", 1/2", 5/8", 3/4", Colour-Coded Disconnecting Set; 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", Fuel Line Disconnect Tool, Ford Oil Cooling Line Disconnect Tool, Ford Fuel Line Coupling Tool, Ford/Vauxhall/Opel Quick Disconnect Tool, 7pc Disconnecting Set, Spare Rubber Bands



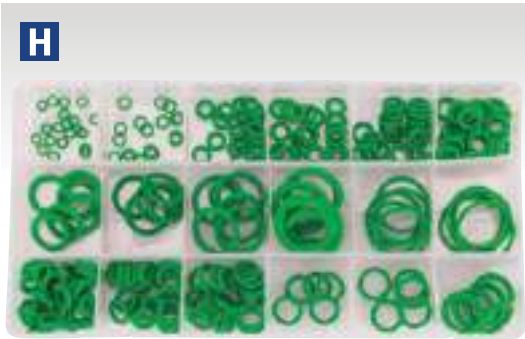
C - E Individual Composite Hose Pinch Tools
Model No. SEE BELOW
 Smooth rounded jaw edges prevent damage to internal hose reinforcement. Quick and simple, one-handed use. Made from durable glass reinforced nylon. Material properties include lightweight, non-conductive and high-visibility colour to prevent accidental loss of clamp in the engine bay.

Model No:	Application:	Size:	Maximum Jaw Opening:
C VS030	Brake & Fuel Hoses	Small	18mm
D VS031	Heater Hoses	Medium	36mm
E VS032	Radiator Hoses	Large	67mm



G 4pc Air Conditioning Spring Lock Coupling Tool Set
Model No. VS0454
 Spring type coupling connectors for air conditioning lines. Locking action prevents spray when disconnecting lines. Suitable for most Chrysler, Ford and Vauxhall/Opel vehicles.

Contents: 3/8", 1/2", 5/8", 3/4"



H 225pc Air Conditioning Rubber O-Ring Assortment
Model No. ACOR225
 Made from HNBR. Designed for use with Freon R134a and R1234YF gas making them suitable for automotive air conditioning units and many other applications.

Contents (Approximate Quantity): ID x Thickness; Ø3 x 1, 4 x 1, 4.5 x 2, 5 x 2, 6 x 2, 6 x 2.5, 6 x 3, 7 x 2, 8 x 2mm (20 of each), 9 x 2, 10 x 2, 12 x 3, 13 x 3, 14 x 2.5, 17 x 2.5, 18 x 4, 20 x 2, 22 x 2mm (5 of each)



B 27pc Fuel & Air Conditioning Disconnection Tool Kit
Model No. VS0557
 Comprehensive automotive fuel line and air conditioning hose disconnection kit. Suitable for a wide variety of vehicles. Designed for radiators, transmissions, oil coolers and power steering lines. Compatible with low profile fuel lines on a range of Ford and Vauxhall/Opel models.

Contents: Colour-Coded Fuel/Air Conditioning Disconnecting Set; 5/16"/8mm, 3/8"/9.5mm, 3/8"/9.5mm Oil Cooler Line, 3/8"/9.5mm Oil Cooler Line, 2 x 1/2"/13mm, 1/2" Oil, 5/8"/16mm, 3/4"/19mm & 7/8"/22mm, Fuel Line/Air Conditioning Disconnect Set; 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", Air Line Disconnect; 1/4"/6mm, 3/8"/9mm, 1/2"/12mm, 5/8"/16mm, Vauxhall/Opel & Ford Low Profile Fuel Line Disconnect Tools; 5/16" & 3/8", Universal Connectors for Radiators, Transmission, Oil Cooler & Power Steering Lines



F Fuel Line Disconnection Set
Model No. VS0455
 Suitable for breaking into fuel lines and hoses fitted with quick release couplings. Three sizes fit popular makes of vehicle.

Applications: Petrol Engines; Ford, Renault, Diesel Engines; Ford, Renault, Vauxhall/Opel



I 2pc Air Conditioning & Fuel Disconnection Tool Set
Model No. VS045
 Die-cast tools suitable for press-type quick disconnection joints found on Chrysler, Ford & Vauxhall/Opel vehicles. Swivel action allows quick selection of correct sized tool.

Sizes:

Fuel Line Tool:	5/16", 3/8"
Air Conditioning Tool:	3/8", 1/2", 5/8", 3/4"



A Vacuum Tester & Brake Bleeding Kit
Model No. VS4022

A multifunction vacuum diagnostic tool with robust compact design. Used for diagnosing faults commonly found on vehicle systems including fuel, ignition, transmission and emissions. Kit includes reservoir, hoses and adaptors for bleeding brake and clutch systems on cars, commercials and motorcycles. Supplied in storage case.

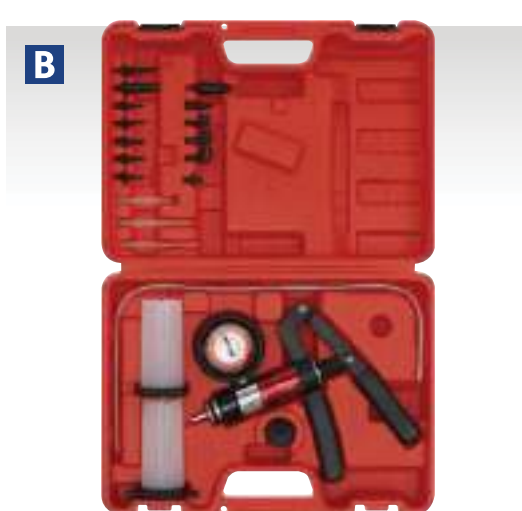
Contents: Vacuum Pump, Fluid Container, Transfer Cap, Vacuum Hoses, Assorted Vacuum Hose Fittings (x8)



D Vacuum Tester & Brake Bleeding Kit
Model No. VS402

Multifunction diagnostic tool used to test a variety of essential engine and associated functions including fuel, ignition, transmission and emissions. Kit also includes reservoir, hoses and adaptors for bleeding brake and clutch systems on cars, commercials and motorcycles. Brass-bodied vacuum pump features large, easy-to-read vacuum gauge calibrated in both inches and millimetres of mercury. Supplied in storage case.

Contents: Vacuum Pump, Fluid Container, Transfer Cap, Vacuum Hoses; 560mm (x2), 80mm (x4), Assorted Vacuum Hose Fittings (x5), Bleed Nipple Adaptors (x3)



B Vacuum & Pressure Test/Bleeding Kit
Model No. VS403

Professional vacuum/pressure diagnostic tool helps identify a variety of faults on vehicle systems including fuel, ignition, transmission, emission and air conditioning/heating. Kit also includes reservoirs, hoses and adaptors for bleeding brake and clutch systems. Features simple push/pull function for choice of pressure or vacuum testing. Large rubber easy-to-read gauge. Supplied in storage case.

Contents: Vacuum Pump, Fluid Container (x2), Transfer Cap, Vacuum Hoses; 65mm (x1), 80mm (x2), 600mm (x2), Assorted Connectors & Blanking Caps (x19)



E Vacuum Tester & Brake Bleeding Kit
Model No. VS4021

Multifunction diagnostic tool used to test a variety of essential engine and associated functions including fuel, ignition, transmission and emissions. Kit also includes reservoir, hoses and adaptors for bleeding brake and clutch systems on cars, commercials and motorcycles. Brass-bodied vacuum pump features large, easy-to-read vacuum gauge calibrated in both inches and millimetres of mercury.

Contents: Vacuum Pump, Fluid Container, Transfer Cap, Vacuum Hoses; 560mm (x2), 80mm (x4), Assorted Vacuum Hose Fittings (x5), Bleed Nipple Adaptors (x3)

G Catalytic Converter Back Pressure Test Kit
Model No. VSE953

Used to establish the working condition of the catalytic converter and silencer by measuring the relative back pressure of the system. For full details, see page 513.

H Petrol Engine Vacuum & Fuel Pump Tester
Model No. CT952

Fitted with Ø63mm gauge. Checks for leaks in fuel line, vacuum chokes and heating. Also suitable for diagnosing valve problems. Includes long flexible hose with universal cone adaptor.



C Carburettor Synchronizer
Model No. VS209

One of the most comprehensive balancer sets available on the market. Features a bank of four mini-gauges with lockable valves enabling user to hold vacuum values in use. Supplied with set of long and short carburettor adaptors for easy-access amongst the tubes and wires around the carburettor. Includes four 900mm delivery tubes. Supplied in storage case.

Maximum Vacuum: 76cmHg

Adaptors:

Long (170mm): M5

Medium (100mm): M5

Short (53, 60mm): M5, M6, Push-on Ø6mm



F Vacuum & Fuel Pump Pressure Test Gauge Set
Model No. VSE952

Ø80mm Gauge with protective rubber bumper and hanging hook. Checks for leaks in fuel line, vacuum chokes and heating. Also suitable for diagnosing valve problems. Includes long flexible hose and adaptors. Supplied in storage case.





A 40L Air Operated Fuel Drainer
Model No. TP200

Fully mobile unit on rigid metal trolley. Air pump uses regulated (70-100psi) workshop air supply. Designed to fully empty both tank and fuel lines of petrol or diesel. Includes three fuel line hoses. 40L Drain tank built into trolley. Mandatory equipment for VBRA members. CE Certified (ATEX 2014/34/EU).

Tank Capacity:	40L
Recommended Air Pressure:	70-100psi
Air Consumption:	12cfm



D 8L Vacuum Fuel/Fluid Extractor
Model No. TP204

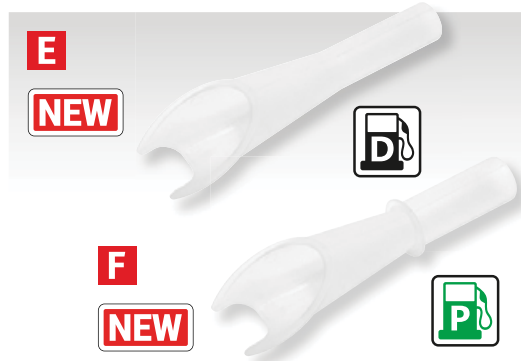
8L Capacity device constructed from composite materials. Suitable for the extraction of all types of engine, transmission and lubricating oils from vehicles and machinery. Also suitable for the extraction of petrol/diesel and low viscosity fluids such as water. Supplied with 1.5m main hose, with interchangeable Ø6.7 x 700mm dipstick oil probe and Ø7 x 400mm universal fluid probe. Supplied with 240mm fuel system adaptor (FSA) for use in conjunction with fuel kit Model No's VS552, VS553, VS554 and VS555. Can also be used for draining fish tanks, basins and sinks.



B 40L Air Operated Fuel Drainer
Stainless Steel
Model No. TP200S

Stainless steel fuel drainer with venturi type suction. 40L Capacity tank suitable for petrol or diesel. Supplied with suction tubes and adaptors for breaking into vehicle fuel system. CE Certified (ATEX 2014/34/EU).

Tank Capacity:	40L
Recommended Air Pressure:	72-100psi
Air Consumption:	6cfm



E-F Ford Emergency Fuel Funnel
Model No. SEE BELOW

Fuel funnels for capless filler systems found on Ford vehicles. Securely fits in filler neck, opening two valve security system.

Model No:	VS71	VS72
Application:	Diesel	Petrol



C 90L Stainless Steel Fuel Tank Drainer
Model No. TP201

Stainless steel fuel drainer with venturi type suction. 90L Capacity tank suitable for petrol or diesel. Supplied with suction tubes and adaptors for breaking into vehicle fuel system. CE Certified (ATEX 2014/34/EU).

Tank Capacity:	90L
Recommended Air Pressure:	70-100psi
Air Consumption:	12cfm

Safe Handling of Fuel

The Health & Safety Executive issue detailed guidelines and safety advice on the correct procedures for the handling and storage of petrol in the garage environment. We recommend you follow this guidance and in addition refer to the operating instructions issued with any Sealey product (primarily designed for use with petrol and fuel related applications). For a copy of the HSE leaflet, visit www.hse.gov.uk.

DRUM HANDLING EQUIPMENT



For our full range of Drum Handling Equipment, see pages 668 to 674.



A Smoke Diagnostic Tool Leak Detector Model No. VS870

Allows the technician to pinpoint all manner of system leaks including the air intake, cooling, evaporation, fuel, exhaust and vacuum systems. Fast and simple-to-use, maximising earning potential. Features single button operation, flow control valve and auto-power-off. Uses mineral oil and workshop air to generate smoke at low pressure while connected to a vehicle. System is clean and quick to use and connects to a 12V vehicle battery. Supplied with four different sizes of blanking cones. Mineral oil not included.

Rubber Cones Sizes:	Ø10-45, 30-65, 50-85, 70-100mm
Hose Length:	2.6m
Machine Weight:	7.2kg
Maximum Input Pressure:	14psi (1bar)
Oil Reservoir Capacity:	75ml



B Turbo System Leakage Tester Model No. VS2030

Designed to charge the turbo system with a low pressure of regulated workshop air to show the presence of leaks within the system. Kit supplied with four pairs of stepped adaptors to fit most sizes of hose. Features a pressure gauge, shut-off valve and pressure release valve. Can also be used on cooling system hoses. Supplied in storage case.

Adaptor Sizes:	35-90mm (5mm increments)
-----------------------	--------------------------



C Turbo System Leakage Tester - Commercial Model No. CV2030

Designed to charge the turbo/intercooler system with a low pressure of regulated workshop air to show the presence of leaks within the system. Kit supplied with three pairs of stepped adaptors to fit most sizes of hose found on heavy commercial vehicles. Features a pressure gauge, shut-off valve and pressure release valve. Supplied in storage case.

Adaptor Sizes:	105-130mm (5mm increments)
-----------------------	----------------------------



D Electronic Stethoscope Model No. VS0071

Accurately pinpoints automotive noises and vibrations, which are converted into an electrical signal and amplified. Long pick-up shaft allows use in hard-to-reach places. Features a volume control and supplied with headphones.

Battery:	9V (supplied)
-----------------	---------------



E Combustion Leak Detector Model No. VS0062

Diagnose blown gaskets, cracked blocks and cylinder heads on both petrol and diesel vehicles. Checks for CO₂ in cooling system and indicates its presence by test fluid colour change. Use with cone adaptor or in conjunction with radiator caps from Model No's VS001, VS0011, VS0013, VS0014, VS0033 and VS006. For Test Fluid Refill order Model No. VS0061F.

Fluid Refill:	VS0061F
----------------------	---------



F Hose Clamp Removal Tool Model No. VS1676

For releasing HENN clamps used on coolant and turbo charger hoses. Applications: BMW, Citroen, Fiat, Ford, Kia, Lexus, Mazda, Mercedes, Nissan, Porsche, Peugeot, VAG, Vauxhall/Opel and Volvo.



A EOBd Code Reader - Live Data Model No. VS8812

Allows interrogation of the vehicle's ECU to determine the performance of essential emission-based information, to read and clear Diagnostic Trouble Codes (DTCs) and to obtain vital performance data from the vehicle's engine and transmission (Petrol 2001 on and Diesel 2004 on). The size of the code reader belies its power. Unlike many other budget tools, which give only a code, the VS8812 gives a full definition on its colour backlit LCD screen. Also supports the new extended sensor list (SAE J1979 2007) and features freeze-frame, live data and includes I/M Readiness to eliminate drive cycle guesswork, using colour-coded LEDs. These characteristics are usually only found on code readers costing many times more.

Features include:

- ✓ Works with all Petrol 2001 onwards and Diesel 2004 OBDII / EOBD compliant vehicles.
- ✓ Scans for Diagnostic Trouble Codes (DTC) - The cause of the 'Engine and Transmission' Malfunction Indicator Light' (MIL).
- ✓ Scans for pending DTCs.
- ✓ Retrieves generic (P0, P2, P3 & U10) and manufacturer specific (P1, P3 & U1) DTCs.
- ✓ Turns off MIL light, clears DTCs and resets monitors.
- ✓ Displays DTC definitions on screen.
- ✓ View freeze-frame data.
- ✓ Displays monitor and I/M readiness status (emissions).
- ✓ Patented One-Click I/M readiness button (emissions).
- ✓ Retrieves vehicle information (VIN, CID & CVN).
- ✓ Supports CAN and other current EOBD Protocols.
- ✓ Supports the extended sensor list (SAE J1979 - 2007).
- ✓ Reads live ECU/PCM data stream.
- ✓ Displays live O2 sensor data.
- ✓ Performs 'modules present' test.



B 12V Fuel Injector Tester Model No. VS211

Operates injectors individually to diagnose fuel delivery problems on petrol vehicles with electronic fuel injection. Works with engine off and pulse timer may be used with fuel pressure gauge. Powered by vehicle's 12V battery.

Can be used to locate fuel system faults such as:

- ✓ Clogged or leaking fuel injectors.
- ✓ Sluggish or sticky fuel injectors.
- ✓ Wiring harness faults.
- ✓ Fuel injector driver signal faults.



D Sound Level Meter Model No. TA060

High quality meter suitable for measurement of environmental and mechanical noise. Conforms to IEC61672-1 class 2 for sound meters. Features min./max. measurements, over and under range, A and C weighting, fast and slow response, data hold, record, digital read-out and bar graph with backlight.

Accuracy:	±1.4dB
Frequency:	31.5Hz-8KHz
Battery:	9V (supplied)



C Anemometer Model No. TA070

Wind speed measuring device featuring live/maximum/average/wind chill and Beaufort scale. Ideal for checking workshop dust/fume extraction devices. Also reads temperature which can be measured in either °C or °F. Readings are displayed on a 24mm high back-lit LCD screen. Features a battery indicator and auto/manual power-off.

Wind Speed Measurement:	m/s, km/h, ft/min, knots, mph
Wind Speed Accuracy:	±5%
Temperature Range:	-10 to +45°C/14 to 113°F
Battery:	CR2032 3V (supplied)



E IR & RF Key Fob Tester Model No. VS921

Detects and confirms radio frequency and/or infrared emission from key fobs and remote controls. Helps diagnose faults quickly and easily without the need to dismantle the fob, remote or vehicle. Magnetic backing sticks to the side of any ferrous surface for testing the range of the transmitter. Suitable for a wide variety of vehicle manufacturers.

Detects:	Infrared or Radio Frequency
RF Ranges:	418MHz, 433-434MHz, 868MHz
Battery:	9V (not included)

V-Scan

1 YEAR
FREE UPDATES

A V-Scan Multi-Manufacturer Diagnostic Tool - Android

Model No. VSCAN

The V-Scan multi-manufacturer diagnostic tool is a wireless Android based system, enabling near OE-level diagnostics. Extremely well priced mid-range tool, which allows you to use a mobile phone or tablet to diagnose cars, SUVs and vans. Connects to the vehicle using a standard 16-pin EOBD connector and includes extension cable for hard to access diagnostic sockets. Used in conjunction with a compatible Android device (2.3 and later). All software (supplied) is downloaded and stored on the mobile phone or tablet. Supplied with one year of updates and doesn't lockout when updates have expired.

Software features:

- Read/clear codes
- Live data
- Actuation tests
- Special functions; Battery Configuration, DPF, Electronic Parking Brake, Injector Programming, Key Programming, Odometer Adjustment, Oil Service Reset, Steering Angle, Throttle Reset, TPMS

Wireless VCI:

Subscription Based Online Updates:

Mobile Phone/Tablet Requirements:

Operating System: Android 2.3 and Later

Wi-Fi:

Bluetooth:

Software Storage Space: 50MB

Updates (12 months): VSCAN-U

A



MANAGE LIVE DIAGNOSTICS
FROM YOUR ANDROID PHONE
OR TABLET



(PHONE NOT INCLUDED)



V-Scan

DIAGNOSTICS

SPECIFICATION:	A V-Scan	B V-Scan Pro
OE-level Diagnostics	Near	Complete
Diagnostic Tablet	✗	✓
Free Updates	1 year	2 years
Continued Use After Updates Expired	✓	✓
Read/Clear Codes	✓	✓
Live Data	✓	✓
Actuation Tests	✓	✓
Battery Configuration	✓	✓
DPF	✓	✓
Electronic Parking Brake	✓	✓
Injector Programming	✓	✓
Key Programming	✓	✓
Odometer Adjustment	✓	✓
Oil Service Reset	✓	✓
Steering Angle	✓	✓
Throttle Reset	✓	✓
TPMS	✓	✓
STORAGE FACILITY		
Maintenance Functions	✗	✓
Technical Information	✗	✓
Data Management	✗	✓

B

V-Scan Pro

**2 YEARS
FREE UPDATES**



B V-Scan Pro Multi-Manufacturer Diagnostic Tool
Model No. VSCANP

The V-Scan Pro diagnostic tool is a fast wireless, multitasking operating system. Includes the most extensive coverage of OE-level diagnostics, allowing independent garages to provide a complete diagnostic service for cars, SUVs and vans.

Software features:

- Read/clear codes
- Live data
- Actuation tests
- ECU and key coding (some vehicles)
- Special functions; Battery Configuration, DPF, Electronic Parking Brake, Oil Service Reset, Throttle Reset, TPMS and more
- Maintenance functions; Technical information and data management

Optional 12 months of updates: VSCANP-UPDATE



FEATURES...

EASY NAVIGATION



LIVE DATA GRAPHING



SPECIAL FUNCTIONS



VSCANP TECH SPECS

Central Processing Unit (CPU):	Intel Quad-Core Processor 1.86GHz	Internal Battery:	3.7V 8500mAH Li-Poly
Operating System:	Android 4.4	Weight:	0.70kg
Hard Drive:	32GB	Camera (Rear):	5.0 Megapixel
Touch Screen Display:	8" - 1280 x 800	Camera (Front):	2.0 Megapixel
Wi-Fi:	✓	Boot-Up Time:	25 seconds
Wireless VCI:	✓	Subscription Based Online Updates:	✓

AUTEL®

Official Suppliers of Autel in the UK

A - D EOBD Code Readers

Model No. SEE RIGHT

Allows the interrogation of the vehicle's ECU to determine the performance of essential emission-based information, to read and clear Diagnostic Trouble Codes (DTCs) and to obtain vital performance data from the vehicle's engine and transmission (Petrol 2001 on and Diesel 2004 on). The competitively priced AL301 EOBD tool works with OBDII /EOBD compliant vehicles and is supplied with a code reference manual with over 7,000 DTC definitions. The sophisticated AL419 EOBD tool delivers in-depth data with added features not found on other tools at the same price. The unit is loaded with troubleshooter code tips and repair information to help the technician fault find and diagnose problems more quickly and effectively. There is also a built-in data library lookup. AL539 supports new extended sensor list (SAE J1979 2007), troubleshooter code tips and repair information to identify root cause of the DTC, so saving time. Auto-ranging automotive diagnostic multimeter with volts, current and resistance. Scope function to visually test component signals, with the added benefit of maximum/minimum volts, frequency and duty cycle displayed. Starter test function allows testing of the battery and charging system. Internal battery back-up for off-vehicle data review/analysis. Supplied with operating instructions, CD, USB cable and test leads in storage pouch. The AL539B has the same features of the AL539 but also includes the addition of battery clamps for non-load battery testing. All can be updated via web-based downloads using the USB cable supplied.



A EOBD Code Reader
Model No. AL301



B EOBD Code Reader - Live Data, Tech Tips
Model No. AL419

SPECIFICATION	AL301	AL419	AL539	AL539B
Works with all (Petrol 2001 and Diesel 2004 onwards) OBDII / EOBD compliant vehicles	✓	✓	✓	✓
Scans for Diagnostic Trouble Codes (DTC) - The cause of the 'Engine and Transmission' Malfunction Indicator Light (MIL)	✓	✓	✓	✓
Scans for pending DTCs	✓	✓	✓	✓
Retrieves generic (P0, P2, P3 & U10) and manufacturer specific (P1, P3 & U1) DTCs	✓	✓	✓	✓
Turns off MIL light, clears DTCs and resets monitors	✓	✓	✓	✓
Displays DTC definitions on screen	✗	✓	✓	✓
View freeze frame data	✗	✓	✓	✓
Displays monitor and I/M readiness status (emissions)	✓	✓	✓	✓
Patented One-Click I/M readiness button (emissions)	✗	✓	✓	✓
Retrieves vehicle information (VIN, CID & CVN)	✓	✓	✓	✓
Supports CAN and other current EOBD Protocols	✓	✓	✓	✓
Supports the new extended sensor list (SAE J1979 - 2007)	✗	✓	✓	✓
Reads live ECU/PCM data stream	✗	✓	✓	✓
Displays live O ₂ sensor data	✗	✓	✓	✓
Graphing function for live data	✗	✓	✓	✓
Read, store and playback live sensor data	✗	✗	✓	✓
Performs 'modules present' test	✗	✓	✓	✓
Print out data via PC - Compatibility: Win7, 8 & 10	✗	✓	✓	✓
Update software via the internet - Compatibility: Win7, 8 & 10	✗	✓	✓	✓
Built-in EOBD library lookup	✗	✓	✓	✓
Troubleshooter code tips and repair information guide	✗	✓	✓	✓
Multimeter (Voltage & Resistance)	✗	✗	✓	✓
Multimeter (Amps)	✗	✗	✓	✓
Scope with Max, Min, Frequency, Duty Cycle	✗	✗	✓	✓
12V Charging and battery starter test	✗	✗	✓	✓
Battery test ranges CCA: DIN, SAE, IEC, EN	✗	✗	✓	✓



C EOBD Code Reader - Electrical Tester
Model No. AL539



D EOBD Code Reader - Electrical & Battery Tester
Model No. AL539B

AUTEL®

Official Suppliers of Autel in the UK

A



A EOBd Code Reader Oil & Service Reset Tool
Model No. **OLS301**

Combines an EOBD code reader and oil service tool in one unit. Extensive vehicle coverage for resetting the oil service/inspection lights. Suitable for setting inspection 1 or 2 service intervals and inspection mileage. Also includes manual reset using clear step-by-step on-screen instructions. Suitable for any EOBD compliant vehicle and reads EOBD diagnostic codes (Engine/Transmission) and enables the cause of the illuminated engine check light (MIL) to be established. Includes all the usual features expected in a quality EOBD code reader. The tool can be updated via web-based downloads. Supplied with operating instructions, CD and USB cable in storage pouch.

OLS301 SPECIFICATION

Works with all (Petrol 2001 and Diesel 2004 onwards) OBDII/EOBD compliant vehicles	Supports the new extended sensor list (SAE J1979 - 2007)
Scans for Diagnostic Trouble Codes (DTC) - The cause of the 'Engine and Transmission' Malfunction Indicator Light (MIL)	Reads live ECU/PCM data stream
Scans for pending DTCs	Displays live O2 sensor data
Retrieves generic (P0, P2, P3 & U10) and manufacturer specific (P1, P3 & U1) DTCs	Dual graphing function for live data
Turns off MIL light, clears DTCs and resets monitors	Read, store and playback live sensor data
Displays DTC definitions on screen	Performs 'modules present' test
View freeze-frame data	Print out data via PC Compatibility - Win7, 8 & 10
Displays monitor and I/M readiness status (emissions)	Update software via the internet Compatibility - Win7, 8 & 10
Retrieves vehicle information (VIN, CID & CVN)	Built-in EOBD library lookup
Supports CAN and other current EOBD Protocols	Free updates when available
Resets oil service/inspection light applications: Abarth, Acura, Alfa Romeo, Audi, BMW, Chrysler, Citroen, Fiat, Ford (American), GM, Honda, Infiniti, Isuzu, Jaguar, Jeep, Lancia, Land Rover, Lexus, Lincoln, Mercury, Mercedes, Mini, Nissan, Oldsmobile, Peugeot, Saab, Scion, Smart, Toyota, Vauxhall/Opel, Volvo, VW	



Visit www.auteltech.com for concise model applications.

B

NEW



Made in Great Britain

Battery

TPMS



B MOT Pro II® - Multi-Manufacturer Diagnostic Tool
Model No. **EU908PRO**

Highly functional, the MOT Pro II® provides 40+ manufacturer coverage offering diagnostics on the most common modules such as EOBD, Transmission, ABS, Airbag, Battery testing/coding, DPF service and regeneration, Electronic Parking Brake (EPB), Oil Service Reset, some TPMS, some steering control sensors, climate, audio and more. The tool can be updated via web-based downloads. Supplied with operating instructions and USB cable in storage case. Visit www.auteltech.com for concise model applications.

EU908PRO SPECIFICATION

Works with all (Petrol 2001 and Diesel 2004 onwards) OBDII/EOBD compliant vehicles	Supports the new extended sensor list (SAE J1979 - 2007)
Scans for Diagnostic Trouble Codes (DTC) - The cause of the 'Engine and Transmission' Malfunction Indicator Light (MIL)	Reads live ECU/PCM data stream
Scans for pending DTCs	Displays live O2 sensor data
Retrieves generic (P0, P2, P3 & U10) and manufacturer specific (P1, P3 & U1) DTCs	Graphing function for live data
Turns off MIL light, clears DTCs and resets monitors	Read, store and playback live sensor data
Displays DTC definitions on screen	Performs 'modules present' test
View freeze-frame data	Print out data via PC Compatibility - Win7, 8 & 10
Displays monitor and I/M readiness status (emissions)	Update software via the internet Compatibility - Win7, 8 & 10
Patented One-Click I/M readiness button (emissions)	Built-in EOBD library lookup
Retrieves vehicle information (VIN, CID & CVN)	Troubleshooter code tips and repair information guide
Supports CAN and other current EOBD Protocols	Covers 40+ vehicle manufacturers



For our full range of Multimeters, see pages 464 to 471

AUTEL®

Official Suppliers of Autel in the UK

Contact your Sealey Distributor for more information or to arrange a demonstration on Model No's MS906 and MS908.

A - B EOBBD Code Readers
Model No. **SEE BELOW**

These state-of-the-art tools are engineered and built by Autel, who are now recognized by the automotive aftermarket industry as one of the fastest growing scan tool companies, providing the most extensive and best price to performance ratio of high-level diagnostic products and first-class customer support.



A Autel MaxiSYS® - Multi-Manufacturer Diagnostic Tool
Model No. **MS906**

The MaxiSys® MS906 is designed for ultra mobility but with price in mind, keeping the same performance and software as the MS908. This design features a high resolution 8.0 Megapixel camera and Micro USB.

SPECIFICATION	A MS906	B MS908
Central Processing Unit (CPU)	Samsung Exynos Quad-Core Processor 1.3GHz	Samsung Exynos Quad-Core Processor 1.4GHz
Operating System	Android 4.4 Kitkat	Android 4.0 Ice Cream Sandwich
SSD Hard Drive	32GB	32GB
Touchscreen Display	8.0" 1024 x 768 LED Capacitive Touchscreen	9.7" 1024 x 768 LED Capacitive Touchscreen
Connectivity	Micro USB Wi-Fi	USB 2.0 Wi-Fi Bluetooth
Dual Band 802.11n Wi-Fi	2.4GHz & 5GHz	2.4GHz & 5GHz
Internal Battery	3.7V 5000mAh Lithium Polymer	3.7V 11000mAh Lithium Polymer
Weight	0.96kg	1.42kg
Camera (rear)	8.0 Megapixel, AF with Flashlight	5.0 Megapixel, AF with Flash
Wireless VCI	✗	✓
Boot-Up Time	20 Seconds	20 Seconds
Complete OEM-Specific Coverage	✓	✓
Auto VIN Technology	✓	✓
MaxiFix Cloud-Based Information System	✓	✓
Workshop Manager Software	✓	✓
ECU Coding	Advanced	Advanced
Subscription Based Online Updates	✓	✓

AUTEL®

Official Suppliers of Autel in the UK

Contact your Sealey Distributor for more information or to arrange a demonstration on Model No's MS906 and MS908.



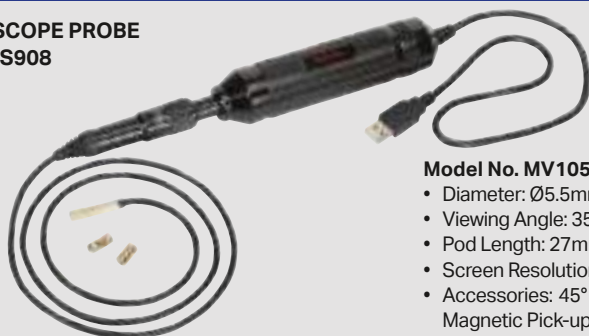
B MaxiSys® Multi-Manufacturer Diagnostic Tool Model No. MS908

The MaxiSys® MS908 is the flagship of the Autel range, which offers extreme ease of use and powerful diagnostic performance. However the MaxiSys® has evolved far beyond the original capabilities. Utilizing an A9 quad-core 1.4GHz processor that offers 50% increase in speed versus competing products, a 9.7" LED touchscreen with a resolution of 1024 x 768, the revolutionary multitask capable Android Operating System, combined with the best possible coverage of OE-level diagnostics.

- ✓ 20 Second boot-up time.
- ✓ Supplied with various connectors in storage case.
- ✓ Includes updates for 12 months.
- ✓ 12 Months guarantee.
- ✓ Enhanced European software, covering virtually every module on the vehicle.
- ✓ No lock out when updates expire.
- ✓ UK telephone support.

TURN YOUR DIAGNOSTIC TOOL INTO A BORESCOPE

BORESCOPE PROBE FOR MS908



Model No. MV105

- Diameter: Ø5.5mm
- Viewing Angle: 35°
- Pod Length: 27mm
- Screen Resolution: 320 x 240
- Accessories: 45° Mirror, Magnetic Pick-up



Shown with Model No. MS908 for illustration purposes only (not included).



C Autel MaxiScope - Automotive Oscilloscope Model No. MP408

4-Channel automotive oscilloscope suitable for professional applications. Works in conjunction with MaxiSys® Tablets*, Model No MS908, to provide a powerful diagnostic tool. Powered directly from a USB port, with no need for batteries or power leads, making it versatile and portable. The 4-channel function allows multiple components to be compared simultaneously. The scope is supplied with a wide selection of automotive type test leads, connectors and probes.

Accessories (supplied): 1.5m USB Cable, 3m Screened Test Lead (x4), Secondary Ignition Pick-Up, 2-Pin Breakout Lead, Attenuators 20:1 (x2), Large Crocodile Clip Set (Pair), Small Crocodile Clip Set (Pair), Acupuncture Probe Set, Multimeter Probes (Pair)

Maximum Sample Rate: 80MS/s (Single Channel), 20MS/s (Multiple Channels)

Bandwidth: 20MHz

Input Range: 50mV - 100V (11 ranges)

Coupling: AC/DC

Impedance: 1MΩ

DC Accuracy: 1%

Input Protection: 200V

Timebase Range: 100ns/div - 1000s/div

Buffer Size: 32M shared on active channels

Sensitivity: 10mV/div - 20V/div

Trigger Type: Rising Edge, Falling Edge

Trigger Mode: Auto, Repeat, Single, None

Advanced Features: Math Channels, Measurements

Interface: USB 2.0

Size: 190 x 115 x 38mm

*Not suitable for Model No. MS906.



A Infrared Laser Digital Thermometer 12:1
Model No. VS900

Detects energy emission in the infrared spectrum and converts reading into a display of temperature. Features laser pointer, data-hold and auto-power-off. Temperature is displayed on a large 23mm LCD HD colour screen with back-lit display for use in low light areas. Temperature can be shown in either °C or °F. Temperature Range: -50°C to +400°C (-58°F to +752°F). Powered by 2 x AAA batteries (not included).

Focal Ratio:	12:1
Temperature Range:	-50°C to +400°C (-58°F to +752°F)
Accuracy:	±1.5%



B Infrared Laser Digital Thermometer 12:1
Model No. VS904

Detects energy emission in the infrared spectrum and converts reading into a display of temperature. Features laser pointer, data-hold and auto-power-off. Temperature is displayed on a large 23mm LCD HD colour screen with back-lit display for use in low light areas. Temperature can be shown in either °C or °F. Temperature Range: -50°C to +530°C (-58°F to +986°F). Powered by 2 x AAA batteries (not included).

Focal Ratio:	12:1
Temperature Range:	-50°C to +530°C (-58°F to +986°F)
Accuracy:	-50°C to 0°C: ±3°C, 0°C to +530°C: ±1.5°C or ±1.5% whichever is greater



C Infrared Laser Digital Thermometer 12:1
Model No. VS907

High resolution laser thermometer that detects energy emission in the infrared spectrum and converts reading into a display of temperature. Features laser pointer, Maximum/Minimum/Average/Difference readings, data storage and data-hold function, high/low alarm setup, auto-power-off. Temperature is displayed on a large 29mm LCD panel with back-lit display for use in low light areas. Temperature can be shown in either °C or °F. Powered by 9V battery (supplied). Storage case included.

Focal Ratio:	12:1
Temperature Range:	-50°C to +700°C (-58°F to +1282°F)
Accuracy:	-50°C to 0°C: ±3°C, 0°C to +700°C: ±1.5°C or ±1.5% whichever is greater



D Infrared Twin-Spot Laser Digital Thermometer 12:1
Model No. VS940

Detects energy emissions in the infrared spectrum and displays the temperature on an 18mm LCD back-lit display. Twin-spot laser guides user to the unit's optimum targeting distance - when the two laser dots merge into one, unit is reading a 13mm disc of temperature. Features data-hold and auto-power-off. Temperature can be shown in either °C or °F. Powered by 9V battery (supplied).

Focal Ratio:	12:1
Temperature Range:	-50°C to +650°C (-58°F to +1202°F)
Accuracy:	±2°C or ±2% whichever is greater



E Infrared Twin-Spot Laser Digital Thermometer 12:1 High Temperature
Model No. VS941

Detects energy emissions in the infrared spectrum and displays the temperature on an 18mm LCD back-lit display. Twin-spot laser guides user to the unit's optimum targeting distance - when the two laser dots merge into one, unit is reading a 13mm disc of temperature. Features data-hold and auto-power-off. Temperature can be shown in either °C or °F. Powered by 9V battery (supplied).

Focal Ratio:	12:1
Temperature Range:	-50°C to +1050°C (-58°F to +1922°F)
Accuracy:	±2°C or ±2% whichever is greater



F Mini Digital Thermometer
Model No. VS906

High precision digital thermometer with the sensor located in the tip of the stainless steel probe. Compact and lightweight, measuring both °C and °F with hold function. Ideal for testing automotive air conditioning output. Powered by 1.5V battery (supplied).

Temperature Range:	-40°C to +250°C (-40°F to +482°F)
--------------------	-----------------------------------



A Thermal Imaging Camera Model No. VS913

Thermal imaging camera for the detection of high and low temperature. Heat-mapped colour palettes and temperature reading. Includes on-screen cursor to accurately locate minimum/maximum temperature variation. Suitable for many industries including automotive, building and electrical.

Colour Palette:	3
Emissivity:	On Screen
Field of Vision:	33° x 33°
Image Mix (Camera to Thermal):	Thermal
Memory Capacity:	4mb SD Memory Card
Power Source:	4 x AAA (not included)
Resolution:	32 x 32 pixels
Screen Size:	1.8" 128 x 160mm TFT
Temperature Range:	-20°C to +650°C

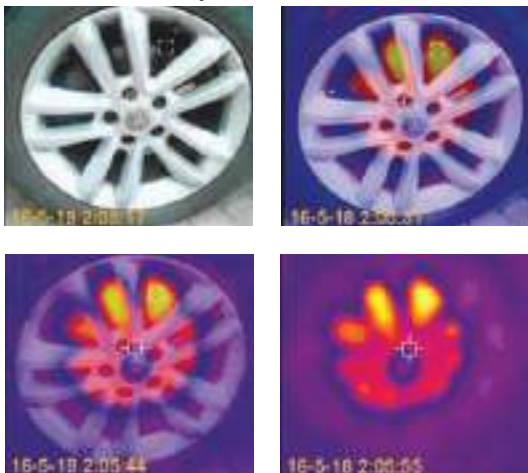
C Rechargeable Ø5.5mm Probe Video Borescope for Smartphone Model No. VS01W

New compact design allows you to connect to a smartphone or tablet via Wi-Fi technology which supports IOS and Android. Fitted with a six LED adjustable light for precise illumination. Images can be stored on App or phone and easily forwarded on to the customer via email or preferred messenger Apps by one click of a button. High resolution 1 megapixel camera gives a clear image. Includes a case which features a phone holder with an adjustable wrist strap giving you easy viewing and both hands-free to work. Waterproof probe pod with IP67 rating. Features on/off, battery level, battery charging and Wi-Fi signal indicators. Powered by a rechargeable 3.7V 3.2Ah Li-ion battery. Supplied with a probe pod dust cap and screw-on 45° mirror pod.

Camera:	Ø5.5mm 1 Megapixel
Camera Probe Length:	1000mm
Focus Distance:	30 - 80mm
Charging Time:	6-8hr
Imaging Sensor:	CMOS Sensor
Operating Time:	6hr
Viewing Angle:	60°
Pod Length:	30mm
Record Function (Video + Still):	✓
Mirror Flip/Rotate Function:	✓
Power Source:	3.7V 3.2Ah
Accessories:	45° Mirror, Wrist Strap with Case, Smartphone Holder, Camera Protector



Manual adjustment of colour scale.



B Thermal Imaging Camera Model No. VS912

Combines the function of surface temperature measurement and real-time thermal imaging. Features a traditional image camera to pinpoint test area with the ability to mix the thermal image over the top at varying intensities. Includes on-screen cursor to accurately locate temperature hotspots. Suitable for many industries including automotive, building and electrical.

Automotive

- Heated seats and windows.
- High resistance in high current wiring.
- Overheating wiring or components.
- Heat distribution and hotspots.
- Identification of hot/cold pipework.

Construction/Electrical/Plumbing

- Energy loss from seals, frames or windows.
- Detection of damp/moisture.
- Electrical faults including overheating wires or fixings.
- Radiators and under floor heating.
- Identification of hot/cold pipework.

Focal Distance:	50cm (Min. 20cm, Max. 1m)
Temperature Range:	-20°C to +300°C (±2°C)
Field of Vision:	65°
Screen Size:	52mm
Resolution of Infrared Image:	60 x 60 (3600 Pixels)
Resolution of Camera Image:	0.3 Mega Pixels
Colour Palette:	Iron Red, Rainbow, Rainbow High Contrast, Greyscale (White Glow), Greyscale (Black Glow)
Emissivity:	0.1 to 1 Adjustable
Image Mix (Camera to Thermal):	0%, 30%, 60%, 80%, 100%
Power Source:	4 x AA Batteries (supplied)
Battery Life:	6hr
Memory:	Micro 4GB SD Card (Max. 25,000 Images)
Weight:	320g





A - C Video Borescopes
Model No. [SEE BELOW](#)

A range of three high performance pistol grip borescopes with 85mm colour TFT screen, waterproof probe pod with IP67 rating. Each having the same main unit, but with a choice of camera probe diameters (3.9mm, 5.5mm or 9mm).

- Ø3.9mm Camera is small enough to fit into a diesel combustion chamber through the glow plug hole.
- Ø5.5mm Camera gives extremely crisp image quality.
- Ø9mm Camera is ideal if restricted access isn't an issue, is competitively priced, with crisp image quality.

All units feature video record/playback, still images and stream live video via the AV out connection. Videos and images are stored on a 4GB micro SD card (supplied) allowing up to 4.5 hours of video and 10,000 images, which can be transferred to a PC via the USB connection. Also features digital zoom control and rotate/flip control of image. Powered by lithium-ion battery pack giving up to 4 hours continuous use. AV and USB cables supplied.

Model No.	A VS8230	B VS8231	C VS8232
Camera Diameter:	Ø9mm	Ø5.5mm	Ø3.9mm
Optional Probes:	✓	✓	✓
Viewing Angle:	53°	60°	80°
Pod Length:	50mm	30mm	20mm
Camera Probe Length:	1m	1m	1m
Adjustable Light Control:	✓	✓	✓
Screen Size:	85mm	85mm	85mm
Screen Resolution:	320 x 240	320 x 240	320 x 240
Mirror Flip/Rotate Function:	✓	✓	✓
Record Function (Video & Still):	✓	✓	✓
AV Out:	✓	✓	✓
USB Connection:	✓	✓	✓
SD Memory Slot:	✓	✓	✓
Accessories:	45° Mirror, Magnetic Pick-Up, Hook, AV & USB Cables	45° Mirror, Magnetic Pick-Up, AV & USB Cables	AV & USB Cables
Power Source:	3.7V Li-ion Rechargeable	3.7V Li-ion Rechargeable	3.7V Li-ion Rechargeable

E - G Camera Probes for VS8230, VS8231 & VS8232
Model No. [SEE BELOW](#)

Borescope probes, waterproof probe pods with IP67 rating. Features lighting LEDs for a clear image in dark areas. Use with Model No's VS8230, VS8231 and VS8232.

Model No.	E VS8290	F VS8255	G VS8239
Probe Size:	Ø9mm x 1m	Ø5.5mm x 1m	Ø3.9mm x 1m
Viewing Angle:	53°	60°	80°
Pod Length:	50mm	30mm	20mm
Adjustable Light Control:	✓	✓	✓
Resolution:	640 x 480	640 x 480	320 x 240

D Ø6mm Video Borescope - Articulated
Model No. [VS8233A](#)

Portable articulated borescope supplied with 70mm TFT colour display. Mini waterproof (IP67) camera with integral light (Ø6mm) mounted on 800mm flexible 2-way articulated probe. Using an attached dial, the camera head angle can be changed by up to 350° without having to remove camera from inspection area. Using 8GB micro SD card (supplied) up to 9 hours of video and 20000 still images can be recorded. Videos and still images can be downloaded to a PC via USB data cable (supplied). CMOS camera with six LED probe light and a focus distance of 20-50mm for fine control of light output and clear pictures. Potential applications; automobile maintenance, engine inspection, pipe line exploration etc. Powered by 4 x AA batteries (not included).

Camera Probe Length:	800mm
Camera:	Ø6mm
AV Out:	✗
Mirror Flip/Rotate Function:	✓
Optional Probes:	✗
Pod Length:	20mm
Power Source:	4 x AA Batteries (not included)
Record Function (Video + Still):	✓
Screen Resolution:	640 x 480 pixels (Colour)
Screen Size:	70mm
SD Memory Slot:	✓
USB Connection:	✓
Viewing Angle:	60°





A - B Tablet Video Borescopes
Model No. **SEE BELOW**

Large 110mm TFT screen and tablet design makes the image incredibly clear but the units still easily portable. Includes the added advantage of probe storage inside the rear of the case so no additional storage required. Features controls for light intensity, digital zoom and image rotation. Waterproof probe pod with IP67 rating and supplied in storage pouch. Powered by 4 x AA batteries (supplied).



C Ø9mm Probe Video Borescope
Model No. **VS8196**

Fitted with a 60mm high resolution screen and includes controls for light intensity, mirror flip function (to reverse image when using a 45° mirror) and image rotation. Features waterproof probe pod with IP67 rating. Powered by 4 x AA batteries (supplied).



D Ø3.9mm Probe Digital Borescope Pro - Diesel Engine Kit
Model No. **VS8200**

The incredibly small probe diameter incorporated into this tool makes it first choice for the diesel engine specialist, where the tiny probe can be passed through most glow plug holes in the cylinder head. This makes inspection of the internal bores fast and easy. An optional side view probe is also available for this tool (see **F**). The image is displayed on a crisp clear screen and can be shared using the AV cable supplied.



E Ø5.5mm Borescope Probe for MS908
Model No. **MV105**

Increases the functionality of your diagnostic tool into a fully functional borescope. Simply plug in the USB cable to display image on-screen. For details on the MaxiSYS® MS908 Multi-Manufacturer Diagnostic Tool see page 458.

Model No.	A VS8222	B VS8223	C VS8196	D VS8200
Camera Diameter:	Ø9mm	Ø5.5mm	Ø9mm	Ø3.9mm
Optional Probes:	✗	✗	✗	✓
Viewing Angle:	53°	62°	53°	105°
Pod Length:	50mm	35mm	49mm	22mm
Camera Probe Length:	830mm	830mm	1000mm	800mm
Adjustable Light Control:	✓	✓	✓	✓
Screen Size:	110mm	110mm	60mm	60mm
Screen Resolution:	480 x 272	480 x 272	960 x 240	320 x 240
Mirror Flip/Rotate Function:	✓	✓	✓	✓
Record Function (Video & Still):	✗	✗	✗	✗
AV Out:	✗	✗	✓	✓
USB Connection:	✗	✗	✗	✗
SD Memory Slot:	✗	✗	✗	✗
Accessories:	45° Mirror, Magnetic Pick-Up, Hook	-	45° Mirror, Magnetic Pick-Up, Hook	AV Cable
Power Source:	4 x AA (supplied)	4 x AA (supplied)	4 x AA (supplied)	4 x AA (supplied)



F Ø3.9mm Borescope Probe - Side View
Model No. **VS8200**

Optional Ø3.9mm borescope probe (90° side view). Suitable for access through the smallest diesel injector or glow plug aperture. Does not have any dark screen corners, giving image coverage/quality right to the edge of the screen. Features lighting LEDs for a clear image in dark areas. Use with Model No. VS8200 (see **D**).

Probe Size: Ø3.9 x 800mm
Viewing Angle: 90° Side View

Entry Level Range



Feature packed units with clear LCD display. Suitable for a wide variety of simple electrical testing such as voltage presence, resistance and continuity. TM103 can also check capacitance, and temperature.

Technician's Range



Suitable for the professional vehicle technician. Large easy-to-read displays and fast processing speeds for accurate readings, ideal for a wide range of uses including component testing. Supplied with a cable for connecting to a PC for recording meter readings.

Advanced Range



High performance automotive multimeters with large backlit displays. Suitable for a wide range of uses including advanced automotive testing. The graph displays make these units ideal for checking and testing items such as oxygen sensors. Durable double moulded soft cases with soft touch. TA304 features an infrared thermocouple for accurate non-contact temperature measurement.

Hybrid Range



For testing systems on high voltage vehicles, CAT III equipment is required. This range is compliant with EN 61010 to meet this requirement. A wide variety of in-depth checks and testing can be quickly and safely carried out. TA320 Can perform insulation tests on high voltage cables and high voltage load testing on components such as hybrid motor generator units.

A



A 12-Function Digital Automotive Analyser Model No. TA101

Durable case and integral stand suitable for the toughest workshop conditions. Large, high-contrast LCD display with 18mm high digital read-out and analogue bar graph. Includes auto-ranging, data-hold, auto-polarity, auto-power-off and low battery display functions. Bar graph simplifies lambda sensor testing. Supplied with capped test probes and K-type thermocouple.

B



B 11-Function Digital Automotive Analyser Model No. TA102

Durable case and integral stand suitable for the toughest workshop conditions. Large, high-contrast LCD display with 34mm high digital read-out. Includes over-range indication, auto-zeroing, data-hold, auto-polarity, auto-power-off and low battery display functions. Supplied with capped test probes and K-type thermocouple.

C



C 13-Function Digital Automotive Analyser with Inductive Coupler Model No. TA201

Compact size meter with 4-digit 22mm, high-contrast LCD display and back light. Features auto-ranging, data-hold and auto-power-off functions. Includes inductive coupler (IC) for fast reading of engine rpm. Supplied with probe, crocodile clip and thermocouple leads for easy hook-up.

D



D 14-Function Digital Automotive Analyser with Inductive Coupler Model No. TA202

Extra-large, high-contrast LCD display with 36mm high digital read-out and back light. Durable case and integral stand suitable for the toughest workshop conditions. Features millisecond pulse-width function for accurate measurement of fuel injection systems. Includes auto-ranging, data-hold and auto-power-off. Supplied with inductive coupler (IC), test probes, thermocouple and storage case.

E



E 15-Function Digital Automotive Multimeter with Bar Graph/PC Link Model No. TA203

Extra-large, high-contrast LCD display with 36mm high digital read-out, bar graph and back light. Durable case with probe storage and integral stand, suitable for the toughest workshop conditions. Features millisecond pulse-width function for accurate measurement of fuel injection systems. Includes auto-ranging, data-hold and auto-power-off. Bar graph is essential for the correct testing of lambda sensors. Supplied with inductive coupler (IC) with adjustable sensitivity, for fast reading of engine rpm, test leads (probe and clip) and thermocouple plus USB interface cable and Windows ME/XP/Vista software for downloading data to PC.





A 12-Function Digital Automotive Analyser with IC
Model No. TA302

12-Function, auto-ranging automotive diagnostic multimeter. Combination digital/bar graph display gives accurate indication of component outputs. Large, easy-to-read high contrast display with bright, white back light. Workshop-tough, durable case with integral stand. Reads standard automotive parameters including duty cycle. Features auto-ranging and data-hold functions with overload protection on all ranges. Supplied with inductive coupler, test probes and thermocouple.



B 14-Function Digital Automotive Analyser with IC
Model No. TA303

14-Function, auto-ranging automotive diagnostic multimeter. Combination digital/bar graph display gives accurate indication of component outputs. Large, easy-to-read high contrast display with bright, white back light. Workshop-tough, durable case with integral stand and auto-power shut-off. High speed processing circuitry reads standard automotive parameters including duty cycle and pulse width, making this tool ideal for testing fuel injection systems. Features auto-ranging, and data-hold functions with overload protection on all ranges. Includes relative functions including min./max. and peak hold. Supplied with inductive coupler, test probes and thermocouple.



C 15-Function Digital Automotive Analyser with IC/IR
Model No. TA304

15-Function, auto-ranging automotive diagnostic multimeter with IR thermometer attachment. Combination digital/bar graph display gives accurate indication of component outputs. Large, easy-to-read high contrast display with bright, white back light. Workshop-tough, durable case with integral stand and auto-power shut-off. High speed processing circuitry reads standard automotive parameters including duty cycle and pulse width, making this tool ideal for testing fuel injection systems. Features auto-ranging, and data-hold functions with overload protection on all ranges. Includes relative functions including min./max. and peak hold. Supplied with inductive coupler, IR thermometer, test probes and thermocouple in storage case.



D Digital Automotive Analyser/Insulation Tester - Hybrid Vehicles
Model No. TA320

Specially designed for hybrid vehicles and conforms to EN61010 CAT III (1000V) and CAT IV (600V). Unlike other multimeters this unit has an insulation test function that allows testing of the insulation of the high voltage wires found on hybrid vehicles. Can be used as a standalone device or linked wirelessly with a USB interface to a PC or laptop enabling results to be graphed, saved or printed. Supplied with high voltage probes, thermocouple and wireless USB cable. The unit also has the usual functions expected on a high quality multimeter including true RMS (Root-Mean-Square) and IP67 waterproof rating.



TA320 can be wirelessly connected to a PC (software included).



TA320 accessories include USB cable which converts to wireless operation.



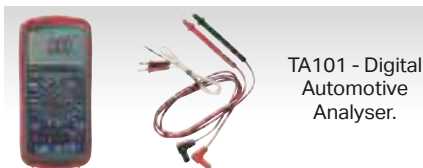
E AC/DC Clamp Meter & Multimeter
Model No. TA305

Designed for the automotive electrician and conforms to EN61010 CAT III 600V. Ideal for measuring current draw from vehicle components in situ. Features 10mm clamp. Supplied in pouch.

Measures:

- ✓ AC/DC Voltage
- ✓ AC/DC Current
- ✓ Resistance
- ✓ Audible Continuity
- ✓ Diode Test

Accessory Kits



TA101 - Digital Automotive Analyser.



TA102 - Digital Automotive Analyser.



TA201 - Digital Automotive Analyser.



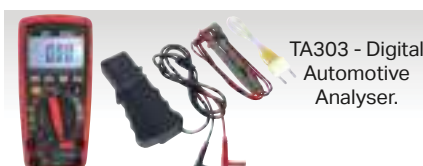
TA202 - Digital Automotive Analyser.



TA203 - Digital Automotive Analyser.



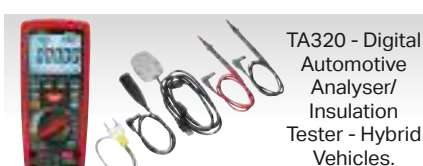
TA302 - Digital Automotive Analyser.



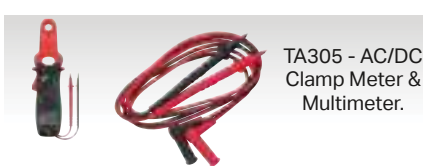
TA303 - Digital Automotive Analyser.



TA304 - Digital Automotive Analyser.



TA320 - Digital Automotive Analyser/Insulation Tester - Hybrid Vehicles.



TA305 - AC/DC Clamp Meter & Multimeter.

AUTOMOTIVE ANALYSER/ MULTIMETER SPECIFICATION	TA101	TA102	TA201
Tach (rpm)	0-3260 (x1)rpm, 0-3260 (x10)rpm	3/4/5/6/8Cyl 180-10000 (x10)rpm	4-Stroke; 600-4000 (x1)rpm, 600-12000 (x10)rpm 2-Stroke; 300-4000 (x1)rpm, 300-6000 (x10)rpm
Dwell	2Cyl 0-180°, 3Cyl 0-120°, 4Cyl 0-90°, 5Cyl 0-72°, 6Cyl 0-60°, 8Cyl 0-45°	3Cyl 0-120°, 4Cyl 0-90°, 5Cyl 0-72°, 6Cyl 0-60°, 8Cyl 0-45°	2Cyl 0-180°, 3Cyl 0-120°, 4Cyl 0-90°, 5Cyl 0-72°, 6Cyl 0-60°, 8Cyl 0-45°, 10Cyl 0-36°
AC Voltage	326mV, 3.26V, 32.6V, 326V, 600V (Auto-Ranging)	200-750V	400mV, 4V, 40V, 400V, 600V (Auto-Ranging, except 400mV)
DC Voltage	326mV, 3.26V, 32.6V, 326V, 600V (Auto-Ranging)	200mV, 2V, 20V, 200V, 1000V	400mV, 4V, 40V, 400V, 600V (Auto-Ranging)
AC Current	326µA, 3260µA, 32.6mA, 326mA, 10A (Auto-Ranging for µA & mA)	×	400µA, 4000µA, 40mA, 400mA, 4A, 10A (Auto-Ranging for µA & mA)
DC Current	326µA, 3260µA, 32.6mA, 326mA, 10A (Auto-Ranging for µA & mA)	20mA, 200mA, 10A	400µA, 4000µA, 40mA, 400mA, 4A, 10A (Auto-Ranging for µA & mA)
Capacitance	×	×	40nF, 400nF, 4µF, 40µF, 100µF (Auto-Ranging)
Frequency	320Hz, 3200Hz, 32kHz (Manual Range)	20kHz	4V Range 5Hz-10kHz, 40 & 400V Ranges 5Hz-200kHz, 600V Range 50Hz-1kHz, 400mA Range 5Hz-5kHz, 10A Range 5Hz-1kHz
Duty Cycle	0.1-99.9%	×	0.1-99.9%
Pulse Width	×	×	×
Resistance	326Ω, 3.26kΩ, 32.6kΩ, 326kΩ, 3.26MΩ, 32.6MΩ (Auto-Ranging)	200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ, 20MΩ	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ (Auto-Ranging)
Continuity	<50Ω	<30Ω	<150Ω
Temperature	-20 to +750°C -4 to +1400°F	-20 to +750°C -4 to +1382°F	-20 to +760°C -4 to +1400°F
IR Temperature	×	×	×
Insulation Test	×	×	×
Diode Check	✓	✓	✓
Transistor Test	×	V _{ce} =3V, I _b =10µA	×
Back Light	×	×	✓
Bar Graph Display	✓	×	×
Display Hold	✓	✓	✓
Auto-Ranging	✓	×	✓
Inductive Coupler	×	×	✓
PC Interface	×	×	×
Digits Height	18mm	34mm	22mm
Auto-Power-Off	✓	✓	✓
Low Battery Indicator	✓	✓	✓
Battery (supplied)	9V (PP3)	9V (PP3)	9V (PP3)
High-Impact Case	✓	✓	✓
Size (L x W x D)	200 x 93 x 50mm	200 x 97 x 48mm	146 x 66.2 x 41.5mm
Weight	400g	495g	330g

TA202	TA203	TA302	TA303	TA304	TA320	TA305
4-Stroke; 600-4000 (x1)rpm, 600-12000 (x10)rpm 2-Stroke; 300-4000 (x1)rpm, 300-6000 (x10)rpm	4-Stroke; 600-4000 (x1)rpm, 600-12000 (x10)rpm 2-Stroke & DIS; 300-4000 (x1)rpm, 300-6000 (x10)rpm	4-8Cyl, 2 & 4-Stroke 600-4000 (x1)rpm, 600-12000 (x10)rpm	4-8Cyl, 2 & 4-Stroke 600-4000 (x1)rpm, 600-12000 (x10)rpm	2-10Cyl, 4-Stroke 600-4000 (x1)rpm, 600-12000 (x10)rpm	×	×
4Cyl 0-90°, 5Cyl 0-72°, 6Cyl 0-60°, 8Cyl 0-45°	1Cyl 0-360°, 2Cyl 0-180°, 3Cyl 0-120°, 4Cyl 0-90°, 5Cyl 0-72°, 6Cyl 0-60°, 8Cyl 0-45°, 10Cyl 0-36°, 12Cyl 0-30°	4Cyl 0-90°, 5Cyl 0-72°, 6Cyl 0-60°, 8Cyl 0-45°	4Cyl 0-90°, 5Cyl 0-72°, 6Cyl 0-60°, 8Cyl 0-45°	4Cyl 0-90°, 5Cyl 0-72°, 6Cyl 0-60°, 8Cyl 0-45°	×	×
400mV, 4V, 40V, 400V, 700V (Auto-Ranging, except 400mV)	400mV, 4V, 40V, 400V, 750V (Auto-Ranging, except 400mV)	3.2V, 32V, 320V, 600V (Auto-Ranging)	400mV, 4V, 40V, 400V, 600V (Auto-Ranging)	400mV, 4V, 40V, 400V, 700V (Auto-Ranging)	400mV, 4V, 40V, 400V, 1000V	400mV, 4V (±1.2%), 40V, 400V, 600V (±1.5%)
400mV, 4V, 40V, 400V, 1000V (Auto-Ranging)	400mV, 4V, 40V, 400V, 1000V (Auto-Ranging)	320mV, 3.2V, 32V, 320V, 600V (Auto-Ranging)	400mV, 4V, 40V, 400V, 600V (Auto-Ranging)	400mV, 4V, 40V, 400V, 1000V (Auto-Ranging)	400mV, 4V, 40V, 400V, 1000V	400mV (±0.8%), 4V, 40V, 400V, 600V (±1.0%)
400µA, 4000µA, 40mA, 400mA, 4A, 20A (Auto-Ranging for µA & mA)	400µA, 4000µA, 40mA, 400mA, 4A, 20A (Auto-Ranging for µA & mA)	320µA, 3200µA, 32mA, 320mA, 10A (Auto-Ranging)	400µA, 4000µA, 40mA, 400mA, 10A (Auto-Ranging)	400µA, 4000µA, 40mA, 400mA, 4A, 20A (Auto-Ranging)	400µA, 4000µA, 40mA, 400mA, 10A	40A, 100A (±2.5%)
400µA, 4000µA, 40mA, 400mA, 4A, 20A (Auto-Ranging for µA & mA)	400µA, 4000µA, 40mA, 400mA, 4A, 20A (Auto-Ranging for µA & mA)	320µA, 3200µA, 32mA, 320mA, 10A (Auto-Ranging)	400µA, 4000µA, 40mA, 400mA, 10A (Auto-Ranging)	400µA, 4000µA, 40mA, 400mA, 4A, 20A (Auto-Ranging)	400µA, 4000µA, 40mA, 400mA, 10A	40A, 100A (±2.5%)
40nF, 400nF, 4µF, 40µF, 100µF (Auto-Ranging)	40nF, 400nF, 4µF, 40µF, 100µF (Auto-Ranging)	×	40nF, 400nF, 4µF, 40µF, 400µF, 4mF, 40mF (Auto-Ranging)	40nF, 400nF, 4µF, 40µF, 400µF, 4mF, 40mF (Auto-Ranging)	40nF, 400nF, 4µF, 40µF, 400µF, 4000µF, 40mF	×
5Hz, 50Hz, 500Hz, 5kHz, 50kHz, 500kHz, 10MHz (Auto-Ranging)	5Hz, 50Hz, 500Hz, 5kHz, 30kHz (Auto-Ranging)	320Hz, 3200Hz, 32kHz (Auto-Ranging)	0.001Hz - 9.99MHz (Auto-Ranging)	0.001Hz - 9.99MHz (Auto-Ranging)	40Hz - 10KHz	40Hz-400Hz
0.1-99.9%	0.1-99.9%	0.1-99.9%	0.1-99.9%	0.1-99.9%	0.1-99.9%	×
1-10ms	2-20ms	×	0.1-10ms	0.1-10ms	100µs-100ms	×
400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ (Auto-Ranging)	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ (Auto-Ranging)	320Ω, 3.2kΩ, 32kΩ, 320kΩ, 3.2MΩ, 32MΩ (Auto-Ranging)	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ (Auto-Ranging)	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ (Auto-Ranging)	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ	400Ω (±1.2%), 4kΩ, 40kΩ, 400kΩ (±1.0%), 4MΩ (±1.2%), 40MΩ (±1.5%)
<150Ω	<150Ω	<35Ω	<35Ω	<30Ω	<35Ω	<50Ω
-20 to +760°C -4 to +1400°F	-20 to +760°C -4 to +1400°F	-20 to +760°C -4 to +1400°F	-20 to +760°C -4 to +1400°F	-20 to +760°C -4 to +1400°F	-50 to +1000°C -58 to +1832°F	×
×	×	×	×	-20 to +280°C, -4 to +536°F	×	×
×	×	×	×	×	125V, 250V, 500V, 1000V	×
✓	✓	✓	✓	✓	✓	✓
×	×	×	×	×	×	×
✓	✓	✓	✓	✓	✓	×
×	✓	✓	✓	✓	✓	×
✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	×	×
×	✓	×	×	×	✓	×
36mm	36mm	18mm	18mm	20mm	20mm	11mm
✓	✓	×	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓
9V (PP3)	9V (PP3)	9V (PP3)	9V (PP3)	9V (PP3)	6 x 1.5V AA	2 x 1.5V
✓	✓	✓	✓	✓	✓	×
195 x 92 x 36mm	215 x 100 x 60mm	167 x 79 x 50mm	170 x 79 x 50mm	182 x 82 x 55mm	220 x 95 x 56mm	226 x 71 x 38mm
394g	605g	366g	366g	360g	700g	185g



A Pocket Multimeter
Model No. MM18
Handy compact unit, small enough to fit in your pocket, making it ideal for basic circuit testing whilst on the move. Features flip lid for added screen protection and storage of leads. Conforms to EN 61010-1 CAT II safety requirements. Supplied with test leads.
Measures:
✓ AC/DC Voltage ✓ Resistance
✓ DC Current ✓ Continuity



B 7-Function Digital Multimeter
Model No. MM19
Measures:
✓ AC/DC Voltage ✓ Resistance
✓ DC Current ✓ Continuity
✓ Diode/Transistor Verification Mode



C Professional Auto-Ranging Digital Cat III Multimeter
Model No. MM102
Measures:
✓ AC/DC Voltage ✓ Diode Test
✓ AC/DC Current ✓ Continuity
✓ Resistance ✓ Forward Facing Work Light
✓ Non-Contact Voltage Detection (NCVD)



D 8-Function Digital Multimeter with Thermocouple
Model No. MM20
Measures:
✓ AC/DC Voltage ✓ Resistance
✓ DC Current ✓ Temperature
✓ Diode/Transistor Verification Mode
✓ Continuity



E 8-Function Hi-Vis Digital Multimeter with Thermocouple
Model No. MM20HV
Measures:
✓ AC/DC Voltage ✓ Resistance
✓ DC Current ✓ Temperature
✓ Diode/Transistor Verification Mode
✓ Continuity



F Professional Auto-Ranging Digital Multimeter
Model No. MM104
Measures:
✓ AC/DC Voltage ✓ Duty Cycle
✓ AC/DC Current ✓ Diode Test
✓ Resistance ✓ Continuity
✓ Frequency ✓ Capacitance
✓ Forward Facing Work Light



G Digital Insulation Tester
Model No. TA319
Specially designed for testing insulation on high voltage cables. Suitable for hybrid and electric vehicles. Supplied with test leads, batteries and storage case. Conforms to EN61010 CAT III (1000V).
Voltage AC: Range; 750V, Max. Resolution; 1V, Accuracy; (±1.2%)
Voltage DC: Range; 1000V, Max. Resolution; 1V, Accuracy; (±0.8%)
Resistance: Range; 200Ω, 2000Ω, Max. Resolution; 0.1Ω, 1Ω, Accuracy; (±1%)
Insulation Resistance: Range; 200MΩ, 2000MΩ, Max. Resolution; 100kΩ-1MΩ, Accuracy; (±3.5%)
Test Voltage: 250V-200MΩ, 500V-200MΩ, 1000V-2000MΩ
Continuity Test: Active Sound Level; ≤40V, Test Current; ≤200mA
Operating Temperature: 0°C - 40°C, (<80%R.H)
Storage Temperature: -10°C - 60°C, (<70%R.H)
Battery: 6 x 1.5V (Supplied)



MM102 & MM104 feature forward facing work light.



A 6-Function Professional Digital Multimeter
Model No. TM100

Measures:

- | | |
|-----------------|--------------|
| ✓ AC/DC Voltage | ✓ Diode Test |
| ✓ DC Current | ✓ Continuity |
| ✓ Resistance | |



B 8-Function Professional Auto-Ranging
Digital Multimeter
Model No. TM102

Measures:

- | | |
|-----------------|---------------|
| ✓ AC/DC Voltage | ✓ Diode Test |
| ✓ AC/DC Current | ✓ Continuity |
| ✓ Resistance | ✓ Temperature |



C 11-Function Professional Auto-Ranging
Digital Multimeter
Model No. TM103

Measures:

- | | |
|-----------------|---------------|
| ✓ AC/DC Voltage | ✓ Frequency |
| ✓ AC/DC Current | ✓ Duty Cycle |
| ✓ Resistance | ✓ Diode Test |
| ✓ Continuity | ✓ Temperature |
| ✓ Capacitance | |



D Mini AC/DC Clamp Meter
Model No. MM405

Measures:

- | |
|-----------------|
| ✓ AC/DC Current |
| ✓ Frequency |



E 6-Function Professional Auto-Ranging
Digital Clamp Meter NCVD
Model No. TM105

Includes data and max. hold functions. Double moulded housing with soft grip case, large display for ease of use and 30mm clamp. Supplied in zipped pouch with carry strap.

Measures:

- | | |
|--|---------------------|
| ✓ AC/DC Voltage | ✓ Diode Test |
| ✓ AC Current | ✓ Continuity Buzzer |
| ✓ Resistance | |
| ✓ Non-Contact Voltage Detection (NCVD) | |



F Digital Tachometer
Contact/Non-Contact
Model No. TA050




Professional quality laser instrument for fast and accurate measurement of rotational speed with or without contact. Will also measure total revolutions, frequency, surface speed and distance. Ten selectable data set memories each with maximum, minimum and average or single value reading, as appropriate. Supplied with reflective tape, for non-contact measurement, and three heads for contact measurement. Powered by 9V battery (supplied) and has jack socket for 6V DC supply.

Measures:	Range/Units:
Rotation Speed - Contact:	2-20,000rpm
Rotation Speed - Non-Contact:	2-99,999rpm
Total Revolutions:	1-99,999
Sampling Time:	0.5s @ >120rpm
Accuracy:	± (0.05% + 1 digit)
Surface Speed:	m/min, in/min, ft/min, yd/min
Distance:	m, in, ft, yd
Frequency:	Hz
Battery:	PP3
External Power:	6V DC



Model No's MM405 & TM105 have
Non-Contact Voltage Detection (NCVD)

MULTIMETER SPECIFICATION					
	MM18	MM19	MM102	MM104	MM20
AC Voltage (Accuracy)	250V ($\pm 1.2\%$)	200V, 750V ($\pm 2\%$)	2V, 20V ($\pm 1\%$), 200V, 600V ($\pm 2.3\%$)	4V, 40V, 400V, 600V ($\pm 1.2\%$)	200V, 600V ($\pm 2\%$)
DC Voltage (Accuracy)	2V, 250V ($\pm 1\%$)	200mV, 2000mV, 20V, 200V ($\pm 1.5\%$), 1000V ($\pm 1.8\%$)	200mV ($\pm 0.5\%$), 2V, 20V, 200V, 600V ($\pm 1.2\%$)	0-400mV ($\pm 1.0\%$), 4V, 40V, 400V, 600V ($\pm 1\%$)	200mV ($\pm 0.5\%$), 2V, 20V, 200V, 600V ($\pm 0.8\%$)
AC Current (Accuracy)	×	×	200 μ A, 2000 μ A, 20mA, 200mA ($\pm 2.5\%$)	400 μ A, 4000 μ A, 40mA, 400mA ($\pm 1.2\%$), 4A, 10A ($\pm 1.8\%$)	×
DC Current (Accuracy)	200mA ($\pm 1.2\%$)	200 μ A, 2000 μ A, 20mA ($\pm 2\%$), 200mA ($\pm 2.2\%$), 10A ($\pm 2\%$)	200 μ A, 2000 μ A, 20mA, 200mA ($\pm 2\%$)	400 μ A, 4000 μ A, 40mA, 400mA ($\pm 1\%$), 4A, 10A ($\pm 1.2\%$)	2mA, 20mA ($\pm 1\%$), 200mA ($\pm 1.2\%$), 10A ($\pm 2\%$)
Resistance (Accuracy)	2k Ω , 20k Ω , 200k Ω , 2000k Ω ($\pm 1.2\%$)	200 Ω , 2000 Ω , 20k Ω , 200k Ω ($\pm 1.8\%$), 2000k Ω ($\pm 2\%$)	200 Ω ($\pm 0.8\%$), 2K Ω , 20K Ω , 200K Ω ($\pm 1.2\%$), 2M Ω ($\pm 5\%$), 20M Ω ($\pm 10\%$)	0-400 Ω , 4k Ω , 40k Ω , 400k Ω , 4M Ω ($\pm 1.5\%$), 40M Ω ($\pm 2.5\%$)	200 Ω , 2k Ω , 20k Ω , 200k Ω ($\pm 0.8\%$), 2M Ω ($\pm 1.2\%$)
Capacitance (Accuracy)	×	×	×	40nF, 400nF ($\pm 4.5\%$), 4 μ F, 40 μ F, 400 μ F ($\pm 3.0\%$), 4000 μ F ($\pm 5.0\%$)	×
Temperature (Accuracy)	×	×	×	×	-40°C to 1000°C, ($\pm 1\%$ up to 400°C), ($\pm 2\%$ over 400°C)
Frequency (Accuracy)	×	×	×	10kHz ($\pm 1.5\%$)	×
Duty Cycle	×	×	×	99.9% ($\pm 1.2\%$)	×
Continuity Audible	✓	✓	✓	✓	✓
Diode Test	×	✓	✓	✓	✓
Transistor Test	×	✓	×	×	✓
High-Impact Rubber Case	×	✓	×	✓	✓
Digits x Height	5 x 11mm	3.5 x 22mm	4 x 14mm	4 x 14mm	6 x 12mm
Low Battery Indicator	×	×	✓	✓	✓
Battery (Supplied)	2 x 1.5V	1 x 9V	2 x 1.5V	2 x 1.5V	1 x 9V
Information	-	-	Non-Contact Voltage Detection (NCVD)	-	Integral Stand
Size (L x W x D)	114 x 56 x 23mm	130 x 70 x 14mm	105 x 57 x 34mm	117 x 62 x 45mm	140 x 70 x 35mm
Weight	101g	240g	160g	260g	260g
Conformity	EN 61010-1	IEC 1010	EN61010-1	EN 61010-1, EN 61010-2-033	IEC 1010

					
MM20HV	TM100	TM102	TM103	TM105	MM405
200V, 600V (±2%)	200V, 600V (±1.2%)	200mV (±1.5%), 2V (±1.2%), 20V, 200V (±1.5%), 600V, 1000V (±2%)	400mV (±1.5%), 4V (±1.2%), 40V, 400V (±1.5%), 600V (±2%)	200mV (±1.5%), 2V, 20V, 200V (±1.8%), 600V (±2.5%)	×
200mV (±0.5%), 2V, 20V, 200V, 600V (±0.8%)	0-200mV, 2000mV, 20V (±0.5%), 200V, 600V (±0.8%)	0-200mV (±0.5%), 2V, 20V, 200V (±1.2%), 600V, 1000V (±1.5%)	0-400mV (±0.5%), 4V, 40V, 400V (±1.2%), 600V (±1.5%)	0-200mV (±0.8%), 2V, 20V, 200V (±1.5%), 600V (±2%)	×
×	×	200µA (±1.5%), 2000µA, 20mA, 200mA (±1.8%), 10A (±3%)	400µA (±1.5%), 4000µA, 40mA, 400mA (±1.8%), 10A (±3%)	2A, 20A, 200A (±2.5%), 400A (±3%)	0-200A (±3%)
2mA, 20mA (±1%), 200mA (±1.2%), 10A (±2%)	0-2000µA, 20mA (±1%), 200mA (±1.2%), 10A (±2%)	200µA (±1%), 2000µA, 20mA, 200mA (±1.5%), 10A (±2.5%)	400µA (±1%), 4000µA, 40mA, 400mA (±1.5), 10A (±2.5%)	×	0-200A (±2.8%)
200Ω, 2kΩ, 20kΩ, 200kΩ (±0.8%), 2MΩ (±1.2%)	0-200Ω, 2000Ω, 20kΩ, 200kΩ (±0.8%), 2000kΩ (±1%)	0-200Ω (±1.2%), 2kΩ (±1%), 20kΩ, 200kΩ, 2MΩ (±1.2%), 20MΩ (±2%)	0-400Ω (±1.2%), 4kΩ (±1%), 40kΩ, 400kΩ, 4MΩ (±1.2%), 40MΩ (±2%)	0-200Ω (±1%), 2kΩ, 20kΩ, 200kΩ (±1.5%), 2MΩ (±2.5%), 20MΩ (±3.5%)	×
×	×	×	4nF, 40nF (±5%), 400nF, 4µF, 40µF (±3%), 200µF (±5%)	×	×
-40°C to 1000°C, (±1% up to 400°C), (±2% over 400°C)	×	-50°C to 1000°C (±3%), -58°F to 1832°F	-20°C to 760°C (±3%), -4°F to 1400°F (±5%)	×	×
×	×	×	9.999Hz to 9.999MHz	×	40-51, 51-510Hz, 0.51-1kHz (all ±1.2%)
×	×	×	0.1% to 99.9% (±1.2%)	×	×
✓	✓	✓	✓	✓	×
✓	✓	✓	✓	✓	×
✓	×	×	×	×	×
✓	✓	✓	✓	×	×
6 x 12mm	3.5 x 27mm	3.5 x 14mm	4 x 14mm	3.5 x 14mm	4 x 11mm
✓	✓	✓	✓	✓	✓
1 x 9V	1 x 9V	1 x 9V	1 x 9V	1 x 9V	2 x 1.5V
Integral Stand	Battery Test 1.5V, 9V (±1%)	Data-Hold Auto-Power-Off & Non-Contact Voltage Detection	Data-Hold & Auto-Power-Off	Data-Hold, Auto-Power-Off & Non-Contact Voltage Detection (NCVD)	Voltage Detection: 100 to 600VAC, Soft Padded Storage Case
140 x 70 x 35mm	145 x 68 x 35mm	150 x 70 x 48mm	150 x 70 x 48mm	197 x 70 x 40mm	155 x 66 x 31mm
260g	260g	255g	255g	345g	160g
IEC 1010	EN 61010-1	EN 61010-1	EN 61010-1	EN 61010-1	IEC 1010

**A Airbag Test Resistor Set****Model No. ABTR01**

Assists in the diagnosis of airbag units and seat belt pretensioners. Connect in place of an airbag or seat belt pretensioner unit to test for component failure. Contains a two ohm resistor and two probe leads. Always follow manufacturer's instructions when testing SRS systems and components.

**B 0-50V Automotive Wire Piercing Test Lead Probes****Model No. TA114**

Fully insulated probes have a spring loaded clamp with stainless steel pin that self centres and punctures the insulation. Fitted with Ø4mm banana style connectors and suitable for use with most multimeters and analysers. Suitable for automotive use only, with a maximum input of 50V DC.

Maximum Wire Size:

Ø3.5mm

**C 6pc Automotive Test Lead & Crocodile Clip Set****Model No. TATL**

Set of 1.35m automotive test leads with Ø4mm banana style connectors. Used for testing and diagnosing faults in electronic circuits. Suitable for use with most multimeters and analysers.

**D Jump Test Lead Set - 5 Pairs x 450mm****Model No. VS222**

Five pairs of coloured cables. Each cable has shrouded crocodile clips at each end. Use as extensions to multimeter leads, to bridge suspected open-circuit cables and as temporary wiring.

Colours: Red, Black, Green, White, Yellow**E 15pc Test Lead Set****Model No. TA112**

Professional set of test leads and components suitable for testing and evaluating automotive electronic circuits on modern vehicles. Features 0.7mm back probes ideal for testing vehicle sensors and dual colour LEDs for directional polarity testing. Set includes standard Ø4mm banana style plugs and sockets suitable for use with most diagnostic multimeters and test equipment.

Contents: LED Leads (x2), Back Probes (x4), Alligator Clips (x2), Standard Probes (x2), Connector/Cables (Piggy-Back) (x4), Spring Loaded Piercing Clip

G 16pc Test Lead Connector Set**Model No. TLCS01**

Connector set containing seven common sizes of male and female connectors and two earth lead connectors. Provides a time-saving solution and accurate connections for testing a wide variety of electrical components and connectors. Designed for use with a multimeter with banana type connectors. For automotive use, not suitable for use on high voltages.



See page 1290 for our full range of Insulating Tape.

**F 92pc Test Lead Set****Model No. TA111**

Comprehensive set of test leads and components suitable for testing, isolating and evaluating automotive electronic circuits. Includes standard Ø4mm banana style plugs and sockets suitable for use with most diagnostic multimeters and test equipment. Supplied in sectioned storage case for quick location of components.

Contents: Potentiometer; 5kΩ (x2), Alligator Clip (x2), Back Probe (x4), LED 2 Colour Strobes (x2), SRS Connector (x2), 1:2 Connector (x2), 1:1 Connector/Cables (Piggy-Back) (x4), Probe (x2), Round Terminals with Banana Socket; Male (x3)/Female (x3) - 1.5, 2, 3.5, 4mm, Flat Terminals with Banana Socket; Male (x3)/Female (x3) - 0.7, 0.8, 1.2, 2, 2.5, 3, 5, 6mm





A 30A Automotive Current Tester
Model No. TA126

Fast, accurate and safe current measurement at the fuse box or battery. Ideal for fault-finding on car and commercial vehicle electrical circuits. Features large LCD display with numeric and bar-type functions. Plugs directly into the vehicle's fuse board. Supplied with mini, standard adaptors and fused crocodile clips. Compatible with alternative probes using the standard Ø4mm banana adaptors.

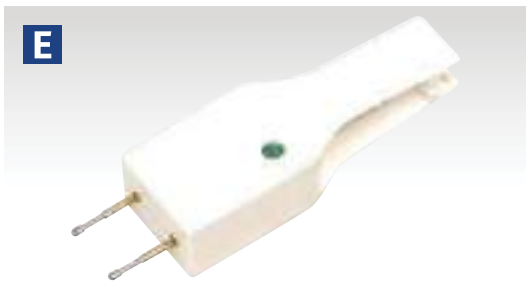
Range:	0-30A - 0-48V
Accuracy:	± 2%
Fuse Type:	Mini, Standard



D 80A Automotive Current Tester
Mini, Standard & Maxi Blade Fuses
Model No. TA125

Fast, accurate and safe current measurement at the fuse box. Ideal for fault-finding on car and commercial vehicle electrical circuits. Includes hold and peak functions for detecting current surges. Features large LCD display with digital and graphical current read-out. Plugs straight into the vehicle's fuse board and supplied with Mini, Standard and Maxi style blade adaptors.

Range:	0-80A - 0-48V
Accuracy:	± 2%
Fuse Type:	Mini, Standard, Maxi



E Automotive Fuse Checker & Puller
Model No. CFT1

Checks continuity of blade-type automotive fuses, in or out of fuse holder. Green LED indicates fuse is OK. Also simplifies the removal of faulty fuses.



G Relay Pliers
Model No. VS224

Designed for the safe removal and installation of relays commonly found on modern vehicles.



B-C 20A Automotive Current Testers
Standard/Mini Blade Fuse
Model No. SEE BELOW

Fast, accurate and safe current measurement at the fuse box. Ideal for fault-finding on car and commercial vehicle electrical circuits. Features large LCD display. Plugs straight into the vehicle's fuse board.

Model No:	TA120	TA121
Range:	0-20A - 0-48V	0-20A - 0-48V
Accuracy:	± 2%	± 2%
Fuse Type:	Standard	Mini



F Relay Tester
Model No. TA131

Health test for 4 and 5-pin electro-mechanical relays commonly found on modern vehicles. Test feature will cycle the relay ten times, testing the resistance, contacts and consistency within each cycle. If a cycle fails on the test then this will be indicated by a red LED and alternatively a green LED if relay works.

Relay Configurations:	4, 5-Pin
-----------------------	----------



A 3-28V Cordless Circuit Tester Buzzer/LED
Model No. AK415

Suitable for testing DC circuits with voltages between 3 and 28V. No earth clips to get tangled - simply contact the wire to be tested and touch your finger on bare metal ground to get a reading. Tester illuminates LED, buzzes and vibrates on contacting live wire. Computer-safe for use around delicate engine management systems. Supplied fitted with 2 x long life N-sized batteries.



B 6-24V Circuit Tester
Model No. AK4008

Suitable for 6-24V DC circuits. Knurled brass body with test light. Probe tip is covered with protective brass screw cap. Tester illuminates when voltage is present. Supplied with cable and alligator earth clip.



C 6/12/24/48V LED Circuit Tester
Model No. AK407

Suitable for 6, 12, 24 and 48V AC and DC circuits. LED array indicates polarity and voltage range. Supplied with 850mm cable and crocodile earth clamp.



D 6/12/24V Circuit Tester with Test Light
Model No. AK402

Suitable for testing 6, 12 and 24V DC circuits. Insulated, pointed probe tests through wire insulation. Supplied with 1.5m cable and crocodile earth clamp.



E 6/12/24V Circuit Tester with Polarity Test
Model No. AK4030

Probe tool allows continuity and polarity tests to be carried out quickly and efficiently on 6, 12 and 24V systems. Polarity indicated by red/green LEDs respectively. Supplied with 1.5m cable and shrouded earth clip.



F 3-48V Circuit Tester
Model No. AK4051

Suitable for testing electrical circuits from 3 to 48V DC. Integral, spring loaded, pointed probe for testing through insulation. Twin LEDs indicate live circuit and polarity. Supplied with 0.9m cable and insulated crocodile earth clamp.



G 3-48V Integrated Test Light/Voltmeter
Model No. AK4012

Identifies polarity of circuit being tested on LCD display, red for positive and green for negative. LCD meter draws minute currents making this tool safe to use around delicate electronic components. With a range of 3-48V DC, this tool is suitable for motorcycle, car, hybrid and commercial vehicles. Supplied with 3m coiled cable and insulated crocodile earth clamp. Do not use on air bags.



H 3-48V Integrated Test Light/Voltmeter
Model No. PPS

LCD meter draws minute currents making this tool safe to use around delicate electronic components. With a range of 3-48V DC, this tool is suitable for motorcycle, car and commercial applications. Includes interchangeable 65 and 175mm probes, leads and clips with Ø4mm banana coupling.



I CAT IV 1000V High Voltage Tester
Hybrid Vehicles
Model No. PPHY

Professional 2-pole voltage tester CAT IV 1000V for checking high voltage on electric/hybrid vehicles. Suitable for checking AC mains and DC power supplies between 6-1000V DC and 24-1000V AC. Can also be used for checking voltage and polarity on car batteries and continuity testing of DC circuits. Includes a self-test function and illumination light. EN 61243-3, IP65, CE certified. Requires 2 x AAA batteries (not included).

CAT Category:	CAT IV 1000V
IP Rating:	IP65
Maximum Current:	<3.5mA @ 1000V
Power:	2 x AAA Batteries (not included)
Voltage:	6-1000V DC & 24-1000V AC



A - B AC/DC Current Clamps
Model No. SEE BELOW

Designed for use with a standard multimeter and measures current draw from vehicle components in situ. Suitable for measuring both AC and DC current, without breaking into the circuit. Fitted with 4mm banana connectors and supplied in storage pouch. Powered by 9V battery (supplied). Can also be used with an oscilloscope using a suitable BNC conversion adaptor.

Model No:	Clamp Size:	Current:
A TA310	Ø12mm	20A(AC), 80A(DC)
B TA311	Ø28mm	40A(AC), 400A(DC)



D 4pc HT Tester Set
Model No. VS5261

Set allows single or multiple testing. Simply fit tester between spark plug and HT lead and then run engine. Regular flashing of the testers indicates a good HT supply. Not suitable for engines with deeply recessed plugs.



E Coil On Plug Tester
Model No. VS5270

Designed to test the COP (Coil On Plug) on modern vehicles. Battery operated, handheld tester which quickly and easily diagnoses if a COP is producing a suitable spark to the plug. Simply place the pad on the COP while the engine is running. Features sound and visual signal recognition.

Battery: 1 x 3V CR2032 Lithium Battery (supplied)



C Multi Voltage Glow Plug Tester
Model No. VS270

Designed to test low voltage glow plug operation on modern diesel engines. Prevents glow plug damage caused by testing with the vehicle battery. Glow plugs can be tested whilst in situ. Supplied in storage case with instructions. Requires 9V battery (not included).



F In-Line Ignition/HT Spark Tester
Model No. VS526

Tests HT supply to spark plug. Suitable for all spark ignition engines. Quick and simple fault diagnosis.

Probe Length:	55mm
Lead Length:	100mm



G Lambda Sensor Tester/Simulator
Model No. VS925

Tests Zirconia and Titania lambda sensors and ECU. Suitable for one, two, three and four wire sensors, heated and unheated. LED display shows crossover signal from sensor. Simulates rich or lean mixture signals to check ECU response. Insulation-piercing clip for quick and easy connection plus display to confirm wire identity. Features a low battery indicator and powered by 9V battery (supplied).



H Glow Plug Analyser
Model No. VS212

Enables fast diagnosis of glow plug failure or degradation without the need to disassemble the plug from the engine. Suitable for use on any 12V DC glow plugs and connects directly to the vehicle's battery. Features six LED read-out which indicates glow plug status and also whether battery contains enough charge to power the plugs.



I 12V Fuel Injector Test Device
Model No. VS211

Operates injectors individually to diagnose fuel delivery problems on petrol vehicles with electronic fuel injection. Works with engine off and pulse timer may be used with fuel pressure gauge. Powered by vehicle's 12V battery.

Can be used to locate fuel system faults such as:

- ✓ Clogged or leaking fuel injectors.
- ✓ Sluggish or sticky fuel injectors.
- ✓ Wiring harness faults.
- ✓ Fuel injector driver signal faults.

A

6V to 42V



A 6-42V Open & Short DC Circuit Detector
Model No. FF400

Find short and open circuits fast and easily. Simply attach the sender unit to the circuit and follow the wires using the detector. Ideal for automotive repairs. Suitable for all DC circuits up to 42V. Supplied in storage case. Powered by two 9V batteries (supplied).



B



B Electronic Stethoscope
Model No. VS0071

Accurately pinpoints automotive noises and vibrations, which are converted into an electrical signal and amplified. Long pick-up shaft allows use in hard-to-reach places. Features a volume control and is supplied with headphones. Powered by 9V battery (supplied).

C



C Technician's Stethoscope
Model No. VS871

High quality stethoscope. Probe attachment quickly locates source of engine noise such as piston slap, worn gears and bearings, damaged valves, water pump failure and blown gaskets. Also aids tracking down of dashboard rattles and squeaks. Rubber trumpet used when checking vacuum and pressure flow - ideal for balancing carburettors.

D



D Technician's Stethoscope
Model No. AK871

Quickly locate the source of engine noise such as piston slap, worn gears and bearings, damaged valves, water pump failure and blown gaskets. Also useful for tracking down dashboard rattles and squeaks. Plastic ear pieces and 300mm probe with sound amplifying chamber.

E

NEW



E 16pc Noid Light Test lead Set
Model No. NLT501

Noid Light Test Kit is used to provide an easy-to-use, universal method for diagnostic testing on automotive 12V actuator low tension switching circuits. Bright clear LED lights give a clear indication of switching on low tension circuits and relays. The 4mm female sockets allow the probes to be used on any multimeter with 4mm male leads. Fine probe pins offer universal connectivity.

F



F 6pc Noid Light Set
Model No. VS213

Check fuel injector signal faults fast. Simply disconnect injector harness and plug in noid light. Turn the ignition on - if the light is steady or absent, then signal from ignition system is at fault. Easy-to-use and fits a wide variety of injector harnesses.

Applications: GM PFI, Ford TBI, GEO TBI, Bosch PFI, GM TBI, GM SCPI

G



G 11pc Noid Light/IAC Test Set
Model No. VS2131

Locate and isolate ECU signal faults fast. Noid and idle air control valve indicator lights test for control signal from ECU. Simply disconnect harness and plug in appropriate light to see if the component is being fed a trigger signal. Set includes 1.3m fibre optic cable to allow light to be viewed from the driver's seat. Simple-to-use and has a wide vehicle application.

Noid Light Applications: GM TBI, GM SCPI, GM FPI, GM MULTEC 2, Bosch 2, Bosch PFI, Ford TBI, GEO TBI

IAC Light Applications: GM 700 TBI/FPI with flat or square 4-pin connectors



A Timing Light with Advance
Model No. TL85

Composite cased Xenon timing light with inductive impulse pick-up. 8000rpm Maximum. Measures timing advance range 0-60° BTDC. Supplied with 1.5m coiled 12V power lead, inductive coupler and operating instructions.



B Digital Timing Light with
Tach/Dwell/Advance/Volt
Model No. TL93

Composite cased Xenon timing light with inductive impulse pick-up and 4-digit LED read-out. Includes mode for 2-stroke and distributorless 'lost spark', 4-stroke engines. Supplied with 1.5m coiled 12V power lead, inductive coupler and operating instructions.

Measures:	Range:
Advance:	0-60° BTDC
Tach:	200-9990rpm
Dwell Accuracy:	99.9%
Voltage Range:	0-16V DC



LED Display on TL93 reads rpm, advance, dwell and voltage.



D - E Replacement 1.5m Lead Set with
Inductive Pick-Up
Model No. SEE BELOW

Model No.	Applications:	Length:
D TL80/L	TL85	1.5m
E TL93/08	TL93	1.5m



G Remote Starter Switch
Model No. VS2057

One-person operation, suitable for turning the engine over for various diagnostic tasks such as compression testing. Connects to the starter system with push-button activation. Features a connectivity LED and 1.5m cable.



F Glow Plug Connector Pliers
Model No. VS316

Pliers for removing sheathed glow plug connectors. Angled jaws. Soft grip handles.



H Remote Starter Switch
Model No. VS205

Makes one-person operation possible for a variety of under bonnet tasks. Connects to starter system with leads provided and allows push-button turnover of engine. Supplied with 1.5m cable.



C Timing Light Diesel Converter Box
Model No. TL95

Used to detect the pulse from the fuel pipes of diesel fuel injectors. Works on most direct injection diesel engines fitted with 6mm (1/4") to 10mm (3/8") external fuel pipes. Suitable for use with most timing lights, engine analysers and multimeters that have an inductive pick-up.

Input Power:	6-30V DC
Trigger Point:	15% of the highest pressure in the injector pipe
Clamp Size:	6mm (1/4") - 10mm (3/8")



I Automotive Induction Probe
Model No. VS5272

Quick and easy-to-use. Ideal for testing ignition coils, fuel injectors and relays. Not suitable for piezo energised fuel injectors.

Battery: 2 x AA (not included)





A Non-Ratcheting Crimping Tool

Model No. AK3850

3mm Steel construction with safety grips. Crimps non-insulated terminals 10-14, 16-18 and 20-22 AWG wire. Crimps open barrel connectors 14-18 and 20-22 AWG wire. Crimps computer pins and sockets D-Sub 26-28 AWG wire. Crimps butt-insulated connectors 22-26 AWG wire. Crimps telephone piercing spade lugs 22-26 AWG wire. Hardened cutting edge for soft wire and cables.

Length: 185mm



D Angled Head Ratchet Crimping Tool Insulated Terminals

Model No. AK3863

All steel construction with large comfort grip handles, angled head and hardened and tempered jaws.

Terminal Suitability: 0.5-1mm², 1.5-2.5mm², 4-6mm²
Length: 230mm



F Ratchet Crimping Tool Non-Insulated Terminals

Model No. AK3852

All steel construction with large vinyl grip handles and hardened and tempered jaws.

Terminal Suitability: 0.5-1mm², 1.5-2.5mm², 4-6mm²
Length: 220mm



B Ratchet Crimping Tool - Insulated Terminals Model No. S0604

All steel construction with vinyl grip handles and hardened and tempered jaws.

Terminal Suitability: 0.5-1mm², 1.5-2.5mm², 4-6mm²
Length: 220mm



E 552pc Ratchet Crimping Tool Kit Insulated Terminals

Model No. AK386

Ratchet crimping tool with laminated steel jaws and insulated grips. Suitable for 1.5, 2.5 and 6mm² insulated terminals.

Contents: Crimping Tool, Assorted Insulated Terminals (x500), Cable Ties (x50), Insulating Tape



C Ratchet Crimping Tool - Insulated Terminals Model No. AK385

All steel construction with large comfort grip handles and plate stamped jaws. Ratchet action ensures consistent crimping.

Terminal Suitability: 0.5-1mm², 1.5-2.5mm², 4-6mm²
Length: 220mm



Supplied with set of approx. 500 insulated terminals and storage case.



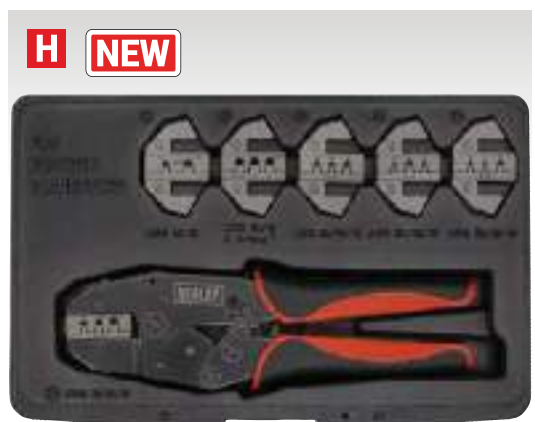
G Ratchet Crimping Tool with Interchangeable Jaws

Model No. AK3857

All steel construction with large soft grip handles. Quick change hardened and tempered jaws to suit insulated and non-insulated terminals. Ratchet action ensures consistent crimping. See page 480 for additional crimping jaws.

Insulated Terminal Suitability: 0.5-1mm², 1.5-2.5mm², 4-6mm²
Non-Insulated Terminal Suitability: 1.5, 2.5, 6, 10mm²

Length: 220mm
Optional Storage Case: AK3858/CASE



H 7pc Deutsch Connector Plier Set Model No. AK3870

The adjustable ratchet mechanism releases only after the correct crimp force has been applied to ensure a reliable connection. Ergonomic handle designed for comfort. Suitable for AWG cable sizes 10, 12, 14, 16, 18, 20. Supplied in a storage case with six sets of interchangeable jaws.

Terminal Suitability: Jaws: K1; 14-12 AWG for Size 12 (DTP), K2; 12-10 AWG for Size 12 (DTP), K3; 18-14 AWG for Size 16 (DT), K4; 20-16 AWG for Size 16 (DT), K5; 20-16 AWG for Size 20 (DTM), K6; 16-12 AWG for Size 16 (DT)



A Ratchet Crimping Tool with Jaws and Storage Case
Model No. **AK3858COMBO**

Crimps are all steel construction with large soft grip handles. Supplied with a set of 12 interchangeable jaws and convenient storage case. Allows selection of specific jaws for the large variety of crimping terminals used today.

Includes items: **B C D E F G H I J K L M N O**



B Ratchet Crimping Tool without Jaws
Model No. **AK3858**

All steel construction with large soft grip handles. Supplied without the required jaws which are sold separately, this allows selection of specific jaws for the large variety of crimping terminals used today.

Available Jaws:	Applications:	Available Jaws:	Applications:
AK3858/A	Insulated Terminal	AK3858/C1	Open Barrel
AK3858/A1	Heat Shrink Butt Connector	AK3858/H	Open Barrel & D-Sub
AK3858/A4	Insulated Flag Terminal	AK3858/H2	Superseal Series 1.5
AK3858/A5	Closed End & Heat Shrink	AK3858/H3	Superseal Series 1.5
AK3858/B	Non-Insulated Terminal	AK3858/H6	Delphi Weather Pack
AK3858/C	Open Barrel	AK3858/H7	Delphi Weather Pack
C AK3858/CASE		Storage Case for AK3857 or AK3858. Features 25 compartments.	

D - O Crimping Jaws
Model No. **SEE BELOW**

Quick change hardened and tempered jaws. For use with Model No's AK3857 and AK3858.



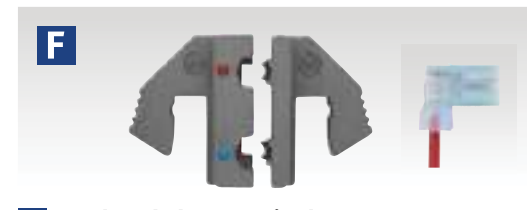
D Insulated Terminal
Model No. **AK3858/A**

Terminal Suitability: 0.5-1mm², 1.5-2.5mm², 4-6mm²



E Heat Shrink Butt Connector
Model No. **AK3858/A1**

Terminal Suitability: 0.5-1mm², 1.5-2.5mm², 4-6mm², 10mm²



F Insulated Flag Terminal
Model No. **AK3858/A4**

Terminal Suitability: 0.5-1mm², 1.5-2.5mm²



G Closed End & Heat Shrink
Model No. **AK3858/A5**

Terminal Suitability: 0.5-1.5mm², 1.5-2.5mm², 4-6mm²



H Non-Insulated Terminal
Model No. **AK3858/B**

Terminal Suitability: 1.5mm², 2.5mm², 6mm², 10mm²



I Open Barrel
Model No. **AK3858/C**

Terminal Suitability: 0.5-1mm², 1.5-2.5mm², 4-6mm²



J Open Barrel
Model No. **AK3858/C1**

Terminal Suitability: 0.1-0.25mm², 0.25-0.5mm², 0.5-1mm²



K Open Barrel & D-Sub
Model No. **AK3858/H**

Terminal Suitability: 0.5mm², 2.5mm², 8-10mm²



L Superseal Series 1.5
Model No. **AK3858/H2**

Terminal Suitability: 0.35-0.5mm², 1.5mm²



M Superseal Series 1.5
Model No. **AK3858/H3**

Terminal Suitability: 0.75mm², 1.0mm²



N Delphi Weather Pack
Model No. **AK3858/H6**

Terminal Suitability: 0.35mm², 0.5-0.8mm²



O Delphi Weather Pack
Model No. **AK3858/H7**

Terminal Suitability: 1-2mm², 3mm²



A Stripping & Crimping Tool
Model No. AK3851

3mm Steel construction with safety insulated handgrips. Crimps insulated terminals from 0.5-6mm². Crimps non-insulated terminals from 1.5-6mm². Crops threaded terminals M2.6-M5. Strips wires from 0.75-6mm². Also fitted with wire cutters for soft cables and wires.

Length: 250mm



B Crimping Tool Set
Model No. S0536

230mm Long, 4-way crimping tool crimps terminals, strips wires, cuts screws and wires. Handles both insulated and non-insulated terminals 1.5, 2.5 and 6mm². Strips wires 0.75, 1, 1.5, 2.5, 4 and 6mm². Screw cutting capacity from M2.6-M5. Safety insulated handle grips. Supplied with approximately 50 assorted terminals and connectors.



C Crimping Tool - Superseal Series 1.5
Model No. AK3859

All steel construction with anti-slip handles and hardened and tempered jaws. For use on Superseal Series 1.5 terminals. Parallel jaw movement ensures consistent crimp tension.

Terminal Suitability: 0.35-0.5mm², 0.75mm², 1mm², 1.5mm²

Length: 210mm



D Crimping Tool - Delphi Weather Pack
Model No. AK3860

All steel construction with anti-slip handles and hardened and tempered jaws. For use on Delphi Weather Pack terminals. Parallel jaw movement ensures consistent crimp tension.

Terminal Suitability: 0.35mm², 0.5-0.8mm², 1-2mm², 3mm²

Length: 215mm



E Automatic Wire Stripping Tool
Model No. AK225

Plate-steel construction, chemically blackened with oversize vinyl grips. 5-in-1 Wire stripper suitable for wires from 0.13-6mm² (26-10AWG). Crimping attachment suitable for non-insulated terminals including 1.5, 2.5, 4 and 6mm², also insulated auto-ignition terminals 7 and 8mm. Crimps insulated terminals 1.5, 2.5 and 6mm². Includes wire cutters hardened to 40-50 HRC.

Stripping Capacity: 0.13-6mm² (26-10AWG)

Length: 215mm



F Heavy-Duty Automatic Wire Stripping Tool
Model No. AK2255

Heavy-duty, professional automatic wire stripper with alloy steel jaws. Fully automatic, single action, grips and strips all types of wire from 0.2-6mm² with minimal pressure to handles and no damage to the inner core of the wire. Adjustable length stop is easily swivelled to allow longer stripping. Precision machined wire cutting blades for long life. Features three crimping elements for insulated, non-insulated (1.5-6mm²) and auto-ignition terminals (7-8mm).

Stripping Capacity: 0.2-6mm²

Length: 200mm



Position Cable Squeeze Handles Simple!

G Automatic Wire Stripping Tool
Model No. AK2252

One-handed, compound action grips and strips electric cables from 1-3.2mm² automatically. Jaw action prevents crushing or cutting even the finest wires. Supplied with length gauge and fitted with vinyl grips.

Stripping Capacity: 1, 1.6, 2, 2.6, 3.2mm²

Length: 175mm



See pages 1288 to 1289 for our range of Heat Shrink Tubing.



H Automatic Pistol Grip Wire Stripping Tool
Model No. AK2265

Automatic wire stripper and cutter operates in one easy single-handed operation. Features a handle lock and adjustable wire stop. Manufactured from reinforced fibreglass and nylon with hardened steel blades.

Stripping Capacity: 0.2-6mm²

Maximum Cutting Capacity: Ø2mm²



A 110mm Cutting Nippers
Model No. AK2254

Manufactured from high quality stainless steel with spring return. Suitable for cutting soft wires and plastic such as cable ties. Sturdy handles for added grip and comfort.

Maximum Cutting Capacity:	Ø4.5mm
Length:	110mm



B Wire Stripping & Cutting Pliers
Model No. AK2266

Manufactured from high carbon steel with precision dual ground cutting blades. Features spring loaded handles with soft grip and safety lock.

Stripping Capacity:	0.5-6mm ²
Maximum Cutting Capacity:	Ø10.7mm
Length:	170mm



C Pocket Wire Stripping Tool
Model No. AK2290

Pocket wire stripping tool suitable for automotive and electrical trades. Features a spring loaded safety lock.

Length:	122mm
---------	-------



D Pocket Wire Stripping Tool
With Retractable Blade
Model No. AK2291

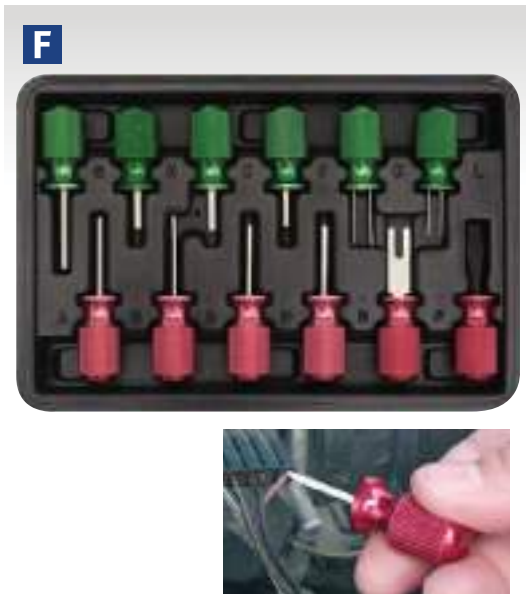
Pocket wire stripping tool suitable for automotive and electrical trades. Features a spring loaded safety lock.

Length:	130mm
---------	-------



E Terminal Tool - VAG
Model No. VS9200

Designed to remove terminals frequently used on many VAG group vehicles.



F 12pc Terminal Tool Set
Model No. VS920

Suitable for the removal of vehicle computer connectors and terminals. Designed for GM C3 systems, this 12pc kit has a general application for safe and fast removal of terminals on a wide range of vehicles. Colour-coded aluminium handles make for easy identification.

Contents:	Red Handled - Spring Loaded Tube; 3.3 x 28mm, Square Blade; 1.4 x 28mm, Flat Blade; 1.5 x 24.75mm, 2 x 23mm, Fork Blade; 8 x 24mm, Screwdriver; 3/16" x 1", Green Handled - Tube; 3.3 x 28mm, 4.3 x 13mm, 3.75 x 13mm, 3 x 13mm, Flat Twin Blade; 3mm, 1.6mm
-----------	--



G 15pc Universal Cable Ejection Tool Set
Model No. VS9201

Reduce time spent on, and damage to, vehicle electrical systems with these connector tools. Set consists of cable extraction, contact ejection and contact dismantling tools covering a wide range of connectors, including Kabelex, Micro-Timer II and III, Maxi-Power Timer and Pit-Pod.

Applications:	BMW, Daimler/Chrysler, Fiat, Ford, MAN, Mazda, Porsche, PSA, Renault, Saab, Seat, Skoda, VAG, Vauxhall/Opel
---------------	---



H 23pc Terminal Tool Kit
Model No. VS9203

Comprehensive kit, suitable for the removal of terminals on most wiring connectors. Reduce time spent on, and damage to, vehicle electrical systems. Features soft grip handles with number identification.

Applications:	BMW, Chrysler, Citroen, Fiat, Ford, Honda, Jaguar, Mazda, Mercedes, Mitsubishi, Porsche, Renault, Saab, Toyota, VAG, Vauxhall/Opel
---------------	--



A 12pc Cable Management Tool
Model No. VS8181

Designed for professional installers and vehicle technicians who want a no-nonsense tool. Capable of overcoming most day-to-day cable installation problems, particularly in domestic and commercial buildings. Ideal for installing wires through vehicle bodywork. Includes a hook and flexible joint with eye and 320mm screw-in polyester rods (x10) with a total length of 3.2m. Supplied in storage tube.

Attachments: Hook, Eye
Section Lengths: 10 x 320mm (3.2m)



B Wire Guide Tool
Model No. RT1

Flexible plastic covered wire with attachment loop. For guiding/pulling replacement automotive wiring into position through confined spaces. Suitable for use with insertion tools.

Section Lengths: 100cm



C Wiring Connector Removal Tool - VAG
Model No. VS455

Designed to remove the electrical connector frequently used on many VAG vehicles.



F 5pc Auto Electrical Installation Kit
Model No. RT5KIT

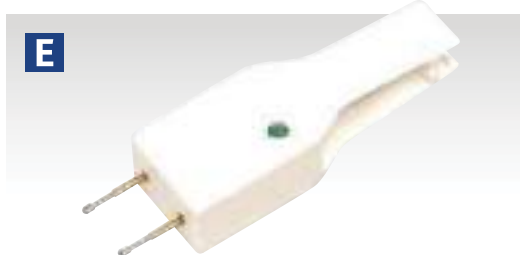
Designed to aid the installation and location of automotive electrical wiring. Slim profile helps to locate and seat wiring loom in awkward places and to separate individual wires ready for inspection/installation, so minimising damage.



D 3pc Terminal Cleaner Set
Diamond Tip
Model No. VS9202

Suitable for removing corrosion and enhance connectivity of wiring terminals. Durable abrasive diamond cleaning ends, for male/female blade type terminal connectors. Features a pivoting handle to allow tweezer action or single blade use. Set contains three sizes of blade.

Contents: 113mm Blade Terminal Cleaner; Small, Medium, Large
Abrasive Coating Length: 30mm



E Automotive Fuse Checker & Puller
Model No. CFT1

Checks continuity of blade-type automotive fuses, in or out of fuse holder. Green LED indicates fuse is OK. Also simplifies the removal of faulty fuses.



G Automotive Electrical Connector Separator Tool
Model No. VS2031

Easily enables user to disconnect electrical connectors quickly and easily without causing damage. Double ended design allows access at different angles. Can be used with most car and commercial vehicle electrical connectors.

H Thick Wall Automotive Cable
Model No. SEE BELOW

Thick wall single core PVC insulated automotive cable. Ideal for most popular vehicle applications. Always check the required amperage and mm² cable for your application before fitting. If in doubt consult a qualified automotive electrician.

Temperature Range: -20°C to +80°C					
Model No:	Amps:	Core Type:	Length:	Section:	Colour:
AC0507B	5A	Single	7m	0.5mm ²	Black
AC0507G	5A	Single	7m	0.5mm ²	Green
AC0507R	5A	Single	7m	0.5mm ²	Red
AC0806B	8A	Single	6m	0.8mm ²	Black
AC0806G	8A	Single	6m	0.8mm ²	Green
AC0806R	8A	Single	6m	0.8mm ²	Red
AC1704B	17A	Single	4m	2mm ²	Black
AC1704G	17A	Single	4m	2mm ²	Green
AC1704R	17A	Single	4m	2mm ²	Red
AC2725B	27A	Single	2.5m	3mm ²	Black
AC2725G	27A	Single	2.5m	3mm ²	Green
AC2725R	27A	Single	2.5m	3mm ²	Red



A



A 6pc Alternator Freewheel Pulley Removal Set
Model No. SX400

Applications: Audi, BMW, Citroen, Ford, Mercedes, Peugeot, Porsche, Renault, Skoda, Vauxhall/Opel
Spline Adaptor: 22mm x 33T
Hex Adaptor: 22 x 28mm
Socket Bits: 1/2" Sq Drive; M10 x 140mm, M10 x 100mm, 10mm Hex Drive; TRX-Star* - T50 x 65mm, Spline - M10 x 65mm

B



B 13pc Alternator Freewheel Pulley Removal Set
Model No. SX401

Applications: Alfa Romeo, Audi, BMW, Citroen, Fiat, Mercedes, Mitsubishi, Renault, Seat, Skoda, Vauxhall/Opel, Volvo, VW
Combined Socket Bits: 1/2" Sq Drive; TRX-Star* - T50-33T x 113mm, Spline - M10-33T x 113mm
Spline Adaptors: 15mm x 33T, 22mm x 33T
Hex Adaptor: 22 x 28mm
Round Adaptor: Ø35mm - 4-pin
Bits: 10mm Hex Drive; TRX-Star* - T40, T50, Spline - M8, M10, Hex - 8, 10mm
Adaptor: 1/2" Sq Drive x 10mm Hex

C



C 18pc Alternator Freewheel Pulley Removal Set
Model No. SX402

Combined Socket Bits: 1/2" Sq Drive; TRX-Star* - T50-33T x 113mm, Spline - M10-33T x 113mm, 3/8" Sq Drive; Spline - M10-33T x 80mm
Socket Bit: 1/2" Sq Drive Spline: M10 x 140mm
Spline Adaptors: 15mm x 33T, 22mm x 33T
Hex Adaptors: 22, 22 x 28, 19 x 28mm
Round Adaptor: Ø35mm - 4-pin
Bits: 10mm Hex; TRX-Star* - T40, T50, Spline - M8, M10, Hex - 8, 10mm, 12mm Hex; Spline - M10
Adaptor: 1/2" Sq Drive x 10mm Hex

D



D 35pc Alternator Freewheel Pulley Removal Set
Model No. SX404

Combined Socket Bits: 1/2" Sq Drive; TRX-Star* - T50-31T Ø13.60 x 113mm, T50-33T Ø19.40 x 65mm, T50-33T Ø19.40 x 113mm, Spline - M10-31T Ø13.60mm x 112mm, M10-33T Ø14mm x 83mm, M10-33T Ø19.40 x 65mm, M10-33T Ø19.40 x 112mm, 10mm Hex Drive; 10mm Socket - 33T Ø19.40, 10mm Socket - 21mm Hex
Hex Adaptors: 17 (x2), 22, 19 x 28, 21 x 28, 22 x 28mm
Spline Adaptors: 33T-Ø17.90mm, 33T-Ø19.40mm (x3)
Hex/Pin Adaptors: 38mm - 3-pin
Round Pin Adaptors: Ø35mm - 4-pin, Ø40mm - 3-pin
Bits: Hex: M8, M10 x 75mm, M10 x 100mm, Socket; 10mm x 75mm, Spline: M10 x 65mm, M8, M10 x 75mm, M10 x 100mm, M10 x 140mm, TRX-Star*; T40, T50 x 75mm, T50 x 100mm
Adaptor: 1/2" Sq Drive x 10mm Hex

E



F



F Diagnostic Socket Memory Safe - EOBD
Model No. VS2073

Professional low cost tool saves all the vehicle settings to prevent loss and expensive reprogramming, not just for radio codes but for immobilisers, traction control, engine management and satellite navigation. Bright, easy-to-read LEDs for at-a-glance confirmation of connection. Can be used with any existing booster packs with a vehicle accessory power socket or even vehicle-to-vehicle.

Cable Length: 1.8m
Connection: EOBD

E 12V Diagnostic Socket Memory Safe - EOBD
Model No. VS2076

Used to preserve the memory to on-board electronics whilst vehicle's own battery is disconnected. Saves valuable time spent re-programming lost codes. Can be connected via the vehicle's EOBD or vehicle accessory power socket. Unit features an internal 12V 7Ah sealed battery and LEDs provide battery condition and charge indicator. Supplied with mains charger.

Cable Length: 1.3m
Connection: EOBD/Vehicle Accessory Socket

G



G Diagnostic Socket Memory Safe - EOBD
Model No. VS2072

Attaches to a 12V slave battery and provides power via the EOBD socket to on-board electronics whilst vehicle's own battery is disconnected. Features LED to indicate back-up battery power supply status. Saves valuable time spent re-programming lost codes.

Cable Length: 1.35m
Connection: EOBD



A 6/12V Battery Drop Tester
Model No. BT91/7

American-style drop tester. Load applied by internal switchgear - no sparking. Suitable for 6 and 12V batteries. Applies load across cells and measures output on meter. Accurate indication of battery voltage and faulty or short circuited cell.



B 6/12V Professional Battery Drop Tester - Polarity Free
Model No. BT91/7PF

American-style drop tester. Polarity protected cables - impossible to damage unit by misconnection. Load applied by internal switchgear - no sparking. Suitable for 6 and 12V batteries. Applies load across cells and measures output on meter. Accurate indication of battery voltage and faulty or short circuited cell.



D 6/12V Handheld Battery Tester
Model No. BT91/10

Tests 6 and 12V batteries. Applies load across terminals and reads voltage performance. Also checks charging voltage. Fitted with moving coil meter. Extending post clamps for batteries in confined spaces.



E 12V Battery & Alternator Tester - LCD Screen
Model No. AK500

LCD display verifies the condition of battery and alternator output. Suitable for 12V DC systems and connects to vehicle via the vehicle accessory power socket. Fitted with 250mm cable and powered by connection to vehicle.



G 30A Clip-On Ammeter
Model No. BT98/10

Moving coil style meter suitable for testing DC current and direction without breaking circuit. Ø55mm Dial face with spring loaded induction clip.

Scale Range: 0-30A (either direction)



H 75A Clip-On Ammeter
Model No. BT98/11

Moving coil style meter suitable for testing DC current and direction without breaking circuit. Ø55mm Dial face with spring loaded induction clip.

Scale Range: 0-75A (either direction)



C 12V Battery Drop Tester
Model No. BT91/3

Traditional style drop tester for all 12V automotive batteries. Applies load across cells and measures output on meter. Accurate indication of battery voltage and faulty or short circuited cell.



F 12V Automotive Battery/Alternator Voltage Tester
Model No. TA301

Professional quality, heavy-duty tester. Features colour-coded, 6 LED display, showing battery and alternator voltages. Suitable for 12V systems. No internal battery required.



I LED Battery/Alternator Tester 12V
Model No. AK400

LED Indicators verify condition of battery and alternator. Suitable for 12V DC systems. Magnetic backing sticks to metal surfaces for hands-free operation. Fitted with 900mm cable, probe and crocodile clips.



A Bluetooth® Battery Tester Model No. BT3000

Perform battery and charging system tests from your smartphone or tablet. Fast and accurate diagnosis with facility to forward results via email or text to workshop reception or customer. Waterproof (IP65) rating and 50cm cable. Rechargeable internal Li-ion battery, allowing testing of batteries with as little as 1.5V of residual charge. Fast Bluetooth® pairing, can store up to 2,000 detailed test reports. Suitable for automotive (including start/stop), motorcycle, marine and leisure batteries.

Rated Battery Voltage: 6/12V

Charging System Capability: 12/24V

Rating Systems: DIN, EN, IEC, SEA, CA/MCA

Test Range: 25-1300 CCA* DIN
40-2100 CCA* EN
30-1500 CCA* IEC
40-2000 CCA* SEA
50-2400 CA/MCA

Voltage Range: 1.5-32V

Wireless Connection Range: 10m

Operating System: (Apple) iOS 8.0 and later, Android OS 4.3 and later

*CCA - Cold Cranking Amps



B 12V Digital Battery & Alternator Tester Model No. BT105

Compact device which accurately tests battery, cranking and alternator. Just key in the battery rating from the top of the battery and results are displayed on LCD screen. Includes a facility to print results via PC. No internal battery and will test batteries with a residual charge of just 8V. Supplied with PC software and instruction manual in storage pouch.

Rated Battery Voltage: 12V

Rating Systems: CCA, BCI, CA, DIN, EN,

GB, IEC, MCA, SAE

Test Ranges: 100-2000 CCA* CCA
100-2000 CCA* BCI
100-2000 CCA* CA
100-1400 CCA* DIN
100-2000 CCA* EN
100-1400 CCA* GB
100-1400 CCA* IEC
100-2000 CCA* MCA
100-2000 CCA* SAE
By Battery Type JIS

PC Compatibility: Windows 7, 8, 10

Languages: English, Danish, Norwegian,

Polish, Romanian

*CCA - Cold Cranking Amps



A & B SIMPLE-TO-USE

- 1 Connect to battery - tester reads battery voltage.

BATTERY TEST ➡
12.66V

- 2 Select battery type.

BATTERY TYPE: ➡
URLA/GEL/AGM/SLA

- 3 Input battery amperage.

SET CAPACITY: ➡
30IEC

- 4 Press enter.



- 5 Battery condition is displayed in full*.

GOOD & PASS ➡
12.66V 472IEC

A


12V

Battery

A 12V Digital Battery Tester
 Model No. BT2101

Fast and accurate assessment of battery condition, even with the battery partially discharged. No heat, no sparks and no misdiagnosis. Tests battery in accordance with rated output based on SAE, DIN or IEC2 criteria and displays results on LCD screen. Diagnose battery faults at the trade counter, service reception or workshop with confidence. Rugged construction.

Rated Battery Voltage: 12V

Rating Systems: DIN, EN, IEC, SAE, CA(MCA)

Test Range: 110-670 CCA* DIN, 185-1125 CCA* EN, 130-790 CCA* IEC, 200-1200 CCA* SAE, 240-1440 CA(MCA)

Minimum Power Requirement: 1.5V

*CCA - Cold Cranking Amps

B

 6V
12V
24V

 Battery &
Alternator

B 6/12/24V Digital Battery & Alternator Tester
 Model No. BT2002

Professional diagnosis of battery and alternator faults. Test battery condition with as little as 1V of residual charge. No heat, no sparks and no misdiagnosis. Checks condition of starter - no complicated connections or interpretation required. Analyse the vehicle's charging system at rest and under load to determine condition of alternator. Connect and follow the prompts on the LCD screen for straightforward answers. Incorporates simple voltmeter for voltage tests and additional system diagnostics. Rugged construction with protective cover.

Rated Battery Voltage: 6/12V

Charging System Capability: 6/12/24V

Rating Systems: SAE, DIN, EN, IEC

Test Ranges: 40-2100 CCA* EN, 40-2000 CCA* SAE 30-1500 CCA* IEC, 25-1300 CCA* DIN

Minimum Power Requirement: 1.5V

*CCA - Cold Cranking Amps

C


12V

 Battery &
Alternator

C 12V Digital Battery & Alternator Tester with Printer
 Model No. BT2012

Fast and accurate diagnosis of battery and alternator faults with facility to print the results. Large LCD display shows charging and starting system status and returns decision making information in seconds. Results need no interpretation and the tester will work on batteries with as little as 1.5V of residual charge.

Rated Battery Voltage: 12V

Rating Systems: DIN, EN, IEC, SAE

Test Ranges: 50-1400 CCA*

50-800 CCA* DIN

50-1400 CCA* EN

50-800 CCA* IEC

50-1400 CCA* SAE

By Battery Type JIS

Voltage Range: 1.5-17V

Consumable Parts: BT2012.V2-01 - Printing Roll (Pack of 2)

Battery: 1 x 9V (not included)

*CCA - Cold Cranking Amps

D


12V

 Battery &
Alternator

D 12V Digital Battery & Alternator Tester
 Model No. BT01

Compact device which accurately tests battery, cranking and alternator. No heat, no sparks and no misdiagnosis. Just key in the battery rating from the top of the battery and results are displayed on an LED control panel. No internal battery and will test batteries with a residual charge of just 7V.

Rated Battery Voltage: 12V

Rating Systems: DIN, EN, IEC, MCA, SAE

Test Ranges: 55-670 CCA* DIN

90-1125 CCA* EN

65-790 CCA* IEC

120-1440 CCA* MCA

100-1200 CCA* SAE

Voltage Range: 7-15V

Minimum Power Requirement: 7V

*CCA - Cold Cranking Amps

E


12V

 Battery &
Alternator

E 12V Digital Battery & Alternator Tester
 Model No. BT102

Compact design digital tester suitable for professional use. Utilises low current draw technology to evaluate condition of SLI, VRLA, AGM and Gel batteries and charging systems. Just key in the battery rating from the top of the battery. Simple, fast and accurate evaluation of battery condition. Results displayed on LED control panel. No internal battery and will test batteries with a residual charge of just 7V. Can also be used to evaluate the condition of the alternator and charging circuitry of the vehicle.

Rated Battery Voltage: 12V

Rating Systems: SAE, DIN, EN, IEC, CA

Test Ranges: 200-1200 CCA* (SAE)

Voltage Range: 7-15V

Minimum Power Requirement: 7V

*CCA - Cold Cranking Amps



A 12/24V Digital Start/Stop Battery & Alternator/Starter Tester
Model No. BT2011

Robust and simple-to-use design offers a full in-vehicle diagnosis of the vehicle battery, starter motor and alternator in seconds. Professional tool supports all 12V batteries including standard Lead-Acid, VRLA, GEL plus AGM and EFB found on all Start/Stop vehicles. The in-vehicle test mode allows diagnosis of battery health, state of charge, internal resistance, cranking voltage and a comprehensive charging system voltage at rest and under load. No heat, no sparks and no misdiagnosis. Equipped with reverse polarity protection and a battery temperature compensation feature. A 4-Line/16 character LCD display gives easy to follow prompts and accurate results. Fitted with a heavy-duty rubber protection cover.

Charging System Capability:	12/24V
Languages:	English, French, Spanish, German, Italian, Portuguese, Dutch, Russian, Turkish, Czech
Note:	*CCA - Cold Cranking Amps
Rated Battery Voltage:	12V

D Digital Battery & Alternator Tester with Printer
Model No. BT2003

Professional diagnosis of battery and alternator faults with the added facility to print the results. Test battery condition with as little as 1V of residual charge. No heat, no sparks and no misdiagnosis. Checks condition of alternator, no complicated connections or interpretation required. Analyse the charging system at rest and under load to determine condition of the alternator. Connect and follow the prompts on the 2-line/16 character LCD screen for straightforward answers. Incorporates simple voltmeter for voltage tests and additional system diagnostics. Rugged construction. Supplied in storage case with batteries, two rolls of printing paper and instruction manual.

Rated Battery Voltage:	6/12V
Charging System Capability:	12/24V**
Rating Systems:	DIN, EN, IEC, JIS, SAE
Test Ranges:	40-2100 CCA* EN 40-2000 CCA* SAE 30-1500 CCA* IEC 25-1300 CCA* DIN By Battery Type JIS

Minimum Power Requirement:	1V
Voltage Range:	1.5-30V
Consumable Parts:	BT2003.V2-01 - Printing Roll (Pack of 2)
Battery:	4 x AA (supplied)

*CCA - Cold Cranking Amps. **24V Alternator Test only



B 6/12/24V Digital Start/Stop Battery & Alternator Tester with Printer
Model No. BT2014

Professional diagnosis of battery and alternator faults with the added facility to print the results. Test battery condition with as little as 1.5V of residual charge. No heat, no sparks and no misdiagnosis. Checks condition of alternator, no complicated connections or interpretation required. Analyse the charging system at rest and under load to determine condition of the alternator. Suitable for use on motorcycles, cars (including start/stop) and commercial vehicles. Connect and follow the prompts on the 2-line/16 character LCD screen for straightforward answers. Rugged construction. Supplied in storage case with batteries, two rolls of printing paper and instruction manual.

Rated Battery Voltage:	6/12V
Charging System Capability:	12/24V**
Rating Systems:	DIN, EN, IEC, JIS, SAE
Test Ranges:	40-2100 CCA* EN 40-2000 CCA* SAE 30-1500 CCA* IEC 25-1300 CCA* DIN By Battery Type JIS

Minimum Power Requirement:	1.5V
Voltage Range:	1.5-30V
Consumable Parts:	BT2003.V2-01 - Printing Roll (Pack of 2)
Battery:	4 x AA (supplied)

*CCA - Cold Cranking Amps. **24V Alternator Test only



C 6/12/24V Digital Start/Stop Battery & Alternator Tester with Printer
Model No. BT2015

Professional diagnosis of battery and alternator faults with the added facility to print the results. Tests batteries up to 3000 CCA* SAE with as little as 1.5V of residual charge. No heat, no sparks and no misdiagnosis. Checks condition of alternator, no complicated connections or interpretation required. Analyse the charging system at rest and under load to determine condition of the alternator. Suitable for use on motorcycles, cars (including start/stop), and commercial vehicles. Connect and follow the prompts on the 4-line/16 character LCD screen for straightforward answers. Supplied in storage case with batteries, two rolls of printing paper, PC software and instruction manual.

Rated Battery Voltage:	6/12V
Charging System Capability:	12/24V**
Rating Systems:	DIN, EN, IEC, JIS, SAE
Test Ranges:	40-2830 CCA* EN 40-3000 CCA* SAE 30-1985 CCA* IEC 25-1685 CCA* DIN By Battery Type JIS

Minimum Power Requirement:	1.5V
Voltage Range:	1.5-30V
Consumable Parts:	BT2012.V2-01 - Printing Roll (Pack of 2)
Compatibility:	Windows XP, 7, 8, 10
Battery:	6 x AA (supplied)

*CCA - Cold Cranking Amps. **24V Alternator Test only



E Printing Roll for BT2003, BT2014, Pack of 2
Model No. BT2003.V2-01

Suitable for Model No's BT2003, BT2014 and other leading brands of battery tester.

Roll Size:	38mm
------------	------

F Printing Roll for BT2012.V2, BT2015
Pack of 2
Model No. BT2012.V2-01

Suitable for Model No. BT2012.V2, BT2015 and other leading brands of battery tester.

Roll Size:	57mm
------------	------



A 6/12/24V Battery Fluid Tester - Dial Type
Model No. AK410

Tests 6, 12 and 24V batteries. Composite body and rubber bulb for workshop durability.



B 6/12/24V Battery Fluid Tester - Tube Type
Model No. AK414

Tests 6, 12 and 24V batteries. Tube construction with thermometer for temperature compensation.



C Battery Fluid Filler
Model No. AK4124

Fluid transfer tool suitable for battery top-up and level adjustment of coolant and screen wash.

Spout Length:	130mm
Bulb Capacity:	150ml



D Battery Carrier
Model No. BT91/9

Tubular steel handle with comfort grip. Enables fast, safe handling of batteries. Fully adjustable for battery size.

Minimum Battery Size:	100mm
Maximum Battery Size:	180mm



E Battery Terminal Puller
Model No. AK419

Mini puller with spring loaded jaws designed for removal of corroded battery clamps from terminals. Also suitable for removal of small gears, pulleys and bearings.

Jaw Spread:	64mm
Jaw Depth:	50mm



F Battery Post & Terminal Cleaner
Model No. AK417

Wire brushes remove corrosion build-up on battery posts and terminals for improved electrical contact.

Length:	80mm
----------------	------



G 10-120mm² Copper Lug Terminal Crimping Tool
Model No. AK120B

Copper lug terminal crimping tool, crimp range is 10-120mm². Manufactured from SCM-40 hard tool steel. Accurate bore diameter and good crimping effect.

Crimp Range:	10-120mm²
---------------------	-----------



H 4-Way Battery Post & Terminal Cleaner
Model No. AK418

Removes heavy corrosion build-up on battery posts and terminals for improved electrical contact. Features clamp reamer and terminal scrapers.

Length:	125mm
----------------	-------

J Battery Terminal Crimping Tool
Model No. AK422

A quick and effective way of crimping battery terminals using either a hammer or vice. Wide throat and spring controlled punch securely holds terminal in place for added security. Compatible with battery terminals with a cross sectional area of 6, 10, 16, 25, 35 and 50mm².



I Refractometer Antifreeze/Battery Fluid/Screenwash
Model No. VS005

Accurately measures the strength of battery fluid, screenwash and antifreeze by measuring the refractive index of light passing through the mixture. Suitable for synthetic antifreeze mixtures including long life OAT (Organic Acid Technology) and G13. Temperature corrected prism ensures accuracy. Eyepiece with adjustable focus. Supplied with pipette and storage case.





A Digital Automotive Analyser/Insulation Tester - Hybrid Vehicles
Model No. TA320

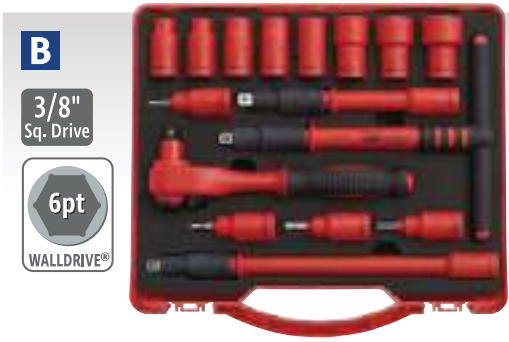
Specially designed for hybrid vehicles and conforms to EN 61010 CAT III (1000V) and CAT IV (600V). Unlike other multimeters this unit has an insulation test function that allows testing of the insulation of the high voltage wires found on hybrid vehicles. Can be used as a standalone device or linked wirelessly with a USB interface to a PC or laptop enabling results to be graphed, saved or printed. Supplied with high voltage probes, thermocouple and wireless USB cable. The unit also has the usual functions expected on a high quality multimeter including true RMS (Root-Mean-Square) and IP67 waterproof rating.



D CAT IV 1000V High Voltage Tester Hybrid Vehicles
Model No. PPHY

Professional 2-pole voltage tester CAT IV 1000V for checking high voltage on electric/hybrid vehicles. Suitable for checking AC mains and DC power supplies between 6-1000V DC and 24-1000V AC. Can also be used for checking voltage and polarity on car batteries and continuity testing of DC circuits. Includes a self-test function and illumination light. EN 61243-3, IP65, CE certified. Requires 2 x AAA batteries (not included).

CAT Category:	CAT IV 1000V
IP Rating:	IP65
Maximum Current:	<3.5mA @ 1000V
Power:	2 x AAA Batteries (not included)
Voltage:	6-1000V DC & 24-1000V AC



B Insulated Socket Sets - VDE Approved
Model No. SEE BELOW

Hardened and tempered Chrome Vanadium steel sockets and accessories. Chrome plated for resistance to corrosion. Each component is fully insulated to VDE and EN 60900 standards to protect from electric shocks up to 1500V DC and 1000V AC. Features 45-tooth flip reverse comfort grip ratchet wrench with push-button quick release, Hex socket bits, locking extension bars and locking T-bar. Ideal for technicians working on modern hybrid and electrical vehicles (1500V DC safe live working). Also suitable for electricians and carpenters (1000V AC safe live working).

Model No:	AK7940
Drive:	3/8"Sq
Quantity:	16pc



C Insulated Socket Sets - VDE Approved
Model No. SEE BELOW

Hardened and tempered Chrome Vanadium steel sockets and accessories. Chrome plated for resistance to corrosion. Each component is fully insulated to VDE and EN 60900 standards to protect from electric shocks up to 1500V DC and 1000V AC. Features 45-tooth flip reverse comfort grip ratchet wrench with push-button quick release, Hex socket bits, locking extension bars and locking T-bar. Ideal for technicians working on modern hybrid and electrical vehicles (1500V DC safe live working). Also suitable for electricians and carpenters (1000V AC safe live working).

Model No:	AK7941
Drive:	1/2"Sq
Quantity:	20pc



E Extra-Long Key Sets - VDE Approved
Model No. SEE BELOW

Manufactured from heat treated and hardened S2 steel with a chemically blackened finish for resistance to corrosion. Keys range in length from 135mm to 215mm. Fitted with PP/TPR handles, fully insulated to VDE and EN 60900 standards to protect from electric shocks up to 1500V DC and 1000V AC. Ideal for technicians working on modern hybrid and electrical vehicles (1500V DC safe live working). Also suitable for electricians and carpenters (1000V AC safe live working).

Model No:	AK7177
Type:	Hex
Quantity:	6pc



F Extra-Long Key Sets - VDE Approved
Model No. SEE BELOW

Manufactured from heat treated and hardened S2 steel with a chemically blackened finish for resistance to corrosion. Keys range in length from 135mm to 215mm. Fitted with PP/TPR handles, fully insulated to VDE and EN 60900 standards to protect from electric shocks up to 1500V DC and 1000V AC. Ideal for technicians working on modern hybrid and electrical vehicles (1500V DC safe live working). Also suitable for electricians and carpenters (1000V AC safe live working).

Model No:	AK7178
Type:	TRX-Star*
Quantity:	9pc



G 7pc Insulated Open-End Spanner Set VDE Approved
Model No. AK63171

Manufactured from hardened and tempered Chrome Vanadium steel. Each spanner is fully insulated to VDE and EN 60900 standards to protect from electric shocks up to 1500V DC and 1000V AC. Covers sizes from 8 to 19mm. Ideal for technicians working on modern hybrid and electrical vehicles (1500V DC safe live working). Also suitable for electricians and carpenters (1000V AC safe live working). Supplied in storage case.



H 9pc 3/8\"Sq Drive Insulated Socket Set VDE Approved
Model No. AK7942

Hardened and tempered Chrome Vanadium steel sockets and accessories. Each component is fully insulated to VDE and EN 60900 standards to protect from electric shocks up to 1500V DC and 1000V AC. Covers sizes from 8 to 19mm. Includes flip reverse comfort grip ratchet wrench with push-button quick release and 100mm extension bar. Ideal for technicians working on modern hybrid and electrical vehicles (1500V DC safe live working). Also suitable for electricians and carpenters (1000V AC safe live working). Supplied in storage case.



A 25m Red/White Post & Chain Kit
Model No. **RWSBKIT**

Highly visible post and chain kit ideal for creating a temporary safety barrier when working on hybrid and electric vehicles. Consists of six red/white posts, six bases, 25m x 6mm red/white plastic chain and chain securing hooks. Post base can be filled with dry sand for extra stability.

Contents: Red/White Posts (x6), Bases (x6), 25m x 6mm Red/White Plastic Chain and Chain Securing Hooks (x1)



D 12pc Cap & Bung Set
Model No. **RWPB01CS**

Replacement caps and bungs for Model No. RWPB01 and RWSBKIT bases.



G 200 x 300mm High Voltage Warning Sign
Model No. **HVSA4**

Electrical hazard warning sign, suitable for use on an exclusion zone around a hybrid or electric vehicle during repair or service operations. Rigid 3mm thick plastic warning sign.

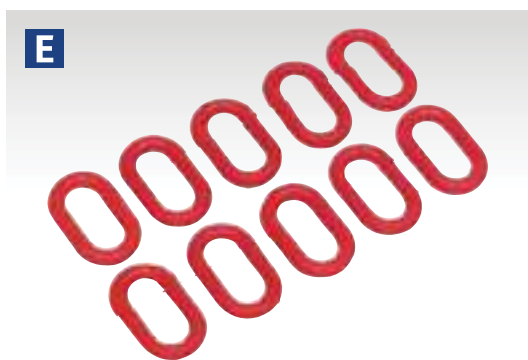
Size (W x H): 200 x 300mm



B Red/White Post with Base
Model No. **RWPB01**

Highly visible red/white post with base. Suitable for use with Model No. RWSBKIT for extending the safety barrier when working on hybrid or electric vehicles.

Size: 850mm



E Plastic Chain Connector - Pack of 10
Model No. **RCC10**

Red plastic connectors suitable for joining 6mm chain. For use with Model No's HSC25M Safety Chain and RWSBKIT Post Kit.

Pack Quantity: 10



H Hybrid/Electric Vehicle Keyring Warning Tag
Model No. **HYBRIDTAG**

Safety warning tag for placing with hybrid or electric vehicle keys whilst service or repair operations are being carried out. It is essential that the vehicle keys are kept secure and away from the vehicle during service or repair work. 400gsm paper with gloss finish.

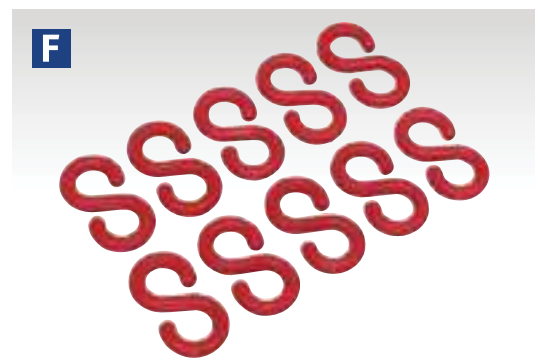
Size (W x H): 80 x 110mm



C 25m x 6mm Red/White Plastic Chain
Model No. **HSC25M**

Essential for creating an exclusion zone when working on high voltage vehicles.

Size: 25m x 6mm



F Plastic Chain S-Hook - Pack of 10
Model No. **RSH10**

Red plastic S-hooks suitable for attaching 6mm chain to posts. For use with Model No's HSC25M Safety Chain and RWSBKIT Post Kit.

Pack Quantity: 10



I Hybrid/Electric Vehicle Warning Sign
Model No. **HYBRIDSIGN**

Essential safety warning sign for placing on a hybrid or electric vehicle whilst service or repair operations are being carried out. A4 300gsm paper with gloss finish. Includes a box for the technician's name, to clearly identify who is working on the vehicle.

Size (W x H): 295 x 210mm

WORKING SAFELY WITH HYBRID & ELECTRIC VEHICLES

- High voltage vehicles are safe to work on provided appropriate training has been undertaken, and the manufacturer’s safety procedures are followed. A modest investment in some training, the correct equipment and PPE will be very worthwhile.
- Technicians working on high voltage vehicles need to create a safe and secure environment where they will not be disturbed, this must include signs warning of high voltage fixed to the vehicle and the working area.
- It is essential that the vehicle keys are kept away from the vehicle and a warning tag attached to notify that a technician is working on the vehicle.
- A Cat III Multimeter is a vital piece of equipment when working on high voltage vehicles. The Sealey TA320 (see page 490) is specially designed for this purpose and conforms to EN 61010 CAT III. This unit has an insulation test function that allows testing of the insulation of the high voltage wires found on hybrid vehicles.
- Tools designed for use with high voltage have certification to substantiate their safe working capacities for this type of work.
- Sealey have staff qualified in the service and repair of this type of vehicle. If you are unsure what tools and equipment you may require, please contact technical@sealey.co.uk



A Hybrid Workshop Tool Kit
Model No. HP55KITCOMBO

Independent garages are now seeing a marked increase in hybrid and electric vehicles being presented to them for service and repair work. With the rapid change in the design of vehicle powertrains in recent years, motor vehicle technicians are having to adapt to new technologies and working practices to be able to safely work on these types of vehicle.

This kit contains a comprehensive range of tools and equipment that will be required to enable vehicle technicians to carry out work on these types of vehicle safely.

Contents:	
RWSBKIT	25m Red/White Post & Chain Kit
HYBRIDTAG	Keyring Warning Tag
HYBRIDSIGN	Warning Sign
HVSA4	200 x 300mm High Voltage Warning Sign
HRP45	High Voltage Rescue Pole
GT117	Pneumatic Glove Tester
HVG1000VL	1kV Safety Gloves
HVM17K02	1 x 1m Insulating Rubber Safety Mat
AK7942	9pc 3/8" Sq Drive Insulated VDE Socket Set
AK6122	6pc GripMAX® VDE Screwdriver Set
AK83452	3pc VDE Pliers Set
AK63171	7pc Insulated Open End VDE Spanner Set
TA320	Digital Automotive Analyser/Insulation Tester



B Electrician's Insulating Rubber Safety Mat
Model No. HVM17K02

Class 2 High voltage insulating rubber floor mat. Essential item required to protect vehicle technicians from the risk of electric shock when working on electric or hybrid vehicles. Independently tested and certified as offering safe protection up to 17kV AC in accordance with BS EN 61111.

Size: 1 x 1m



C Electrical Insulating Sheet 1 x 1.3m
Model No. ES1000

Soft insulated sheet suitable for insulating during work in progress where live connectors may be present. Maximum operating voltage 1000V AC. Tested in accordance with IEC 61112. Always use with additional electrical insulation PPE.

Size: 1 x 1.3m





A Exclusion Zone Kit
Model No. **HP55K1COMBO**

For extension kit see **B**.

Model No:	Description:	Quantity:
RWSBKIT	25m Red/White Post & Chain Kit	1
HVSA4	200 x 300mm High Voltage Warning Sign	1
HYBRIDSIGN	295 x 210mm Hybrid/Electric Vehicle Warning Sign	2
HYBRIDTAG	80 x 110mm Hybrid/Electric Vehicle Keyring Warning Tag	1



B Exclusion Zone Extension Kit
Model No. **HP55KECOMBO**

For use in conjunction with **A** when a larger exclusion zone is required.

Model No:	Description:	Quantity:
HSC25M	25m x 6mm Red/White Plastic Chain	1
RCC10	Plastic Chain Connector - Pack of 10	1
RSH10	Plastic Chain S-Hook - Pack of 10	1
RWPB01	Red/White Post with Base	2



C Pneumatic Glove Tester
Model No. **GT117**

Pneumatic glove tester used to carry out a pressure test on Electrician's safety gloves. Suitable for use with Model No. HVG1000VL (see **E**).



D Personal Protection Kit
Model No. **HP55K2COMBO**

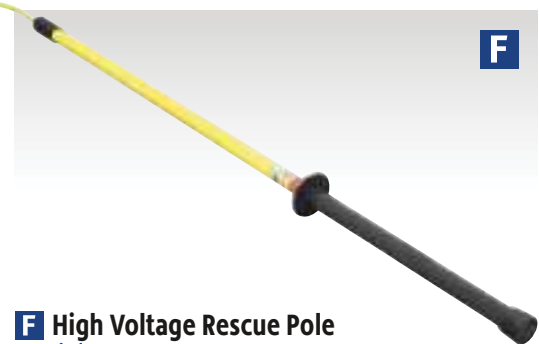
Model No:	Description:	Quantity:
HRP45	High Voltage Rescue Pole	1
HVG1000VL	1kV Electrician's Safety Gloves	1
HVM17K02	Electrician's Insulating Rubber Safety Mat	1



E 1kV Electrician's Safety Gloves
Model No. **HVG1000VL**

High voltage Electrician's safety gloves suitable for use on hybrid and electric vehicles. Grade 0 gloves suitable for working on systems up to 1kV AC in accordance with EN 60903.

Suitability:	<1kV AC
---------------------	---------



F High Voltage Rescue Pole
Model No. **HRP45**

High voltage rescue pole suitable for use up to 45kV AC in dry conditions, in accordance with EN 50508. Supplied with wall mounting brackets and instructions for use. Suitable for hybrid and electric vehicle applications.

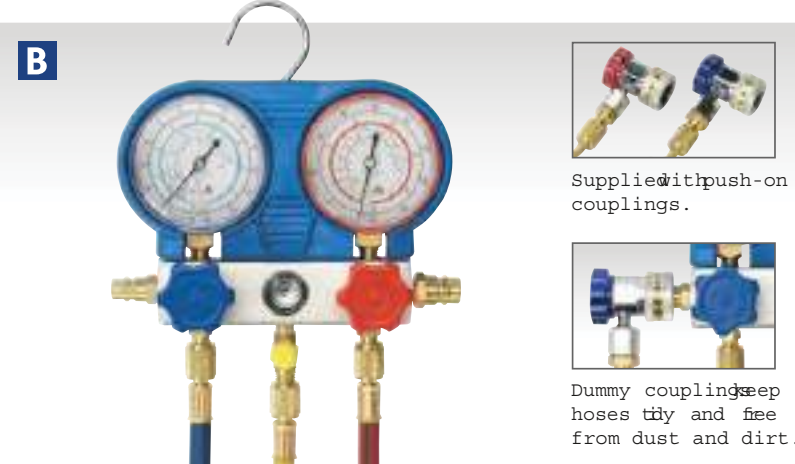
Diameter:	Ø32mm
Length:	1.79m
Material:	Fibreglass



A **Air Conditioning Leak Detection Kit**
Model No. VS600

Find leaking hoses and joints in vehicle R134A air conditioning systems fast. Supplied with rugged 12V ultraviolet lamp and dye injector system for use in conjunction with any air conditioning recharge/recycle station. Includes 10 single doses of fluorescing dye and UV enhancing spectacles for use in normal workshop lighting conditions. Supplied with hose adaptors, comprehensive operating instructions and storage case.

Contents:	12V Ultraviolet Lamp, Dye Injector & Adaptor Hose, UV Enhancing Safety Spectacles, Single Dose Air Conditioning Dye (x10)
Leak Detection Dye for VS600:	
Model No:	Description:
VS60012	Single Dose - Air Conditioning Dye (x12)
VS60033	33 Dose - Air Conditioning Dye (x1)



B **Air Conditioning System Manifold with Sight Glass**
Model No. VSAC002

Designed for refrigerant testing, charging and evacuation. Can be used on automotive, commercial and domestic A/C and domestic refrigeration systems. Gauges marked for R134A and R12 pressure reading. Colour-coding on gauges, valves and hoses for easy operation. Features 2-way manifold and sight glass for monitoring refrigerant flow. Quick couplings included and hanging hook.

Applications:	R134a, R12
Hose Length:	1550mm



C **Rechargeable Ultraviolet Leak Detection Torch**
Model No. VS6021

Ideal for detecting leaks in air conditioning and cooling systems with the use of fluorescent dye (not included). Illumination can be adjusted from spotlight to wide area, by simple push/pull action of the head. Features lightweight aluminium housing. Battery charged via USB lead (supplied).

UV LED:	3W SMD
Battery:	Li-ion 3.7V 2Ah
Operating Time:	6-7hr
Charging Time:	5hr
Length:	120mm



D **2pc Air Conditioning & Fuel Disconnection Tool Set**
Model No. VS045

Die-cast tools suitable for press-type quick disconnection joints found on Chrysler, Ford & Vauxhall/Opel vehicles. Swivel action allows quick selection of correct sized tool.

Contents: Fuel Line Tool; 5/16", 3/8", Air Conditioning Tool; 3/8", 1/2", 5/8", 3/4"



E **150ml Air Conditioning Sanitizer**
Model No. SEE BELOW

Air conditioning sanitizer with an apple fresh fragrance, eliminates odours from air conditioning and heating systems, leaving the system clean and free of germs.

Model No:	Pack Qty:
SCS023	6
SCS023S	1



F **13pc Air Conditioning Pressure Test Connector Kit**
Model No. VSAC135

Designed to be suitable for a wide variety of vehicle air conditioning systems. Allows systems to be pressurized for the purposes of leak testing prior to repair and re-gassing. Connectors included for both high and low pressure fittings.



G **27pc Fuel & Air Conditioning Disconnection Tool Kit**
Model No. VS0557

See page 449 for more details.



H **4pc Air Conditioning Spring Lock Coupling Tool Set**
Model No. VS0454

Spring type coupling connectors for air conditioning lines. Locking action prevents spray when disconnecting lines. Suitable for most Chrysler, Ford and Vauxhall/Opel vehicles.

Contents: Coupling Tools; 3/8", 1/2", 5/8", 3/4"



A 3/8" & 1/2" Sq. Drive

A 7pc 3/8" & 1/2" Sq Drive Oxygen Sensor Socket Set
Model No. SX032

Suitable for Titania and Zirconia oxygen sensors found on most modern vehicles. Windows and slots enable sockets to be fitted over wiring harness.

Contents: 3/8" Sq Drive; 22mm(7/8") Offset Oxygen Sensor Socket - 30mm, 3/8" Sq/1" Wrench Drive; 22mm(7/8") Wide Slot Oxygen Sensor Socket - 90mm, Narrow Slot Vacuum Sensor Socket - 80mm, 3/8" Sq Drive/1-1/8" Wrench; 27mm(1-1/16") Oil Sender Unit Socket - 74mm, 1/2" Sq Drive; 27mm(1-1/16") Injector Socket - 85mm, 29mm Oxygen Sensor Socket - 90mm, 1/2" Sq Drive (8-Point); 22mm(7/8") Offset Heated Oxygen Sensor Socket - 50mm



D 22mm Oxygen Sensor Socket
Model No. SX022

Hardened and tempered Chrome Vanadium steel socket with blackened finish. Suitable for heated and unheated oxygen sensors. Cut-out section allows socket to pass over wiring.

Drive: 3/8" Sq
Size: 22mm
Length: 90mm



G



B 3/8" & 1/2" Sq. Drive

B 5pc 3/8" & 1/2" Sq Drive Oxygen Sensor & Thread Chaser Set
Model No. SX0320

Suitable for oxygen sensors found on most modern vehicles. Cut-out and slots enable sockets to be fitted over wiring harness. Includes two chasers for cleaning and repairing damaged threads. Supplied in storage case.

Sockets: 3/8" Sq Drive; Straight - 80mm, Deep - 22mm, Offset - 31mm, High - 22mm, 1/2" Sq Drive; Offset - 50mm, High - 22mm

Thread Chasers: M12 x 1.25mm, M18 x 1.5mm



E 1/2" Sq. Drive

E 22mm Extra-Long Oxygen Sensor Socket
Model No. SX0221

Suitable for deep-seated and longer type oxygen sensors found on modern vehicles. Cut-out section enables socket to pass over wiring.

Drive: 1/2" Sq
Size: 22mm
Length: 150mm



H

I

H - I Oxygen Sensor Port Thread Chasers
Model No. SEE BELOW

Suitable for cleaning and repairing damaged threads on the exhaust oxygen sensor port. Use with 21mm socket.

Model No:	Drive:	Thread Size:
H VS527	21mm	M12 x 1.25mm
I VS528	21mm	M18 x 1.5mm

G Lambda Sensor Tester/Simulator
Model No. VS925

Tests Zirconia and Titania lambda sensors and ECU. Suitable for 1, 2, 3 and 4 wire sensors, heated and unheated. LED display shows crossover signal from sensor. Simulates rich or lean mixture signals to check ECU response. Insulation-piercing clip for quick and easy connection with display to confirm wire identity. Features a low battery indicator and powered by 9V battery (supplied).



C

C Oxygen Sensor Thread Repair Kit
Model No. VS5281

Time and money saving kit for replacing damaged oxygen sensor threads with a new threaded insert. Kit includes installation tool, reamer, two taps and five inserts in storage case.

Insert Thread Size:	M18 x 1.5mm
Tap Sizes:	M18 x 1.5, M20 x 1.5mm
Replacement Inserts:	(Pack of 5) VS5281R



F

F 22mm Oxygen Sensor Wrench with Flexi-Handle
Model No. SX0222

Hardened and tempered Chrome Vanadium steel socket head with polished chrome finish. Flexible joint with offset grip for maximum access. Suitable for heated and unheated oxygen sensors. Cut-out section allows socket to pass over wiring.

Size: 22mm
Socket Depth: 30mm



J

NEW

3/8" Sq. Drive

J 6pc EGT Sensor Socket Set
Model No. SX0321

EGT (Exhaust Gas Temperature) sensor socket set includes both straight and offset versions. Specially designed to reach 13, 14 and 17mm EGT sockets. 6pt 3/8" Sq Drive with a black phosphate finish.

Contents: 6pt 3/8" Sq Drive Sockets; Straight & Offset (one of each); 13, 14 & 17mm.



A 14mm 3/8"Sq Drive 12-Point Spark Plug Socket with Universal Joint 150mm
Model No. AK6570

Designed for use where plug clearance is tight. Standard depth, thin wall, Chrome Vanadium 12-point 3/8"Sq drive 14mm socket with magnetic insert to retain spark plug. Features a universal joint with a built-in 85mm extension for ease of access.

Drive:	3/8"Sq
Length:	150mm
Size:	14mm



B 4pc 3/8"Sq Drive Spark Plug Socket Set
Model No. AK6556

Forged, Chrome Vanadium steel, 3/8"Sq drive WallDrive® sockets with plug retention, external Hex and polished chrome finish. Set includes thin walled 16mm socket, for where clearance is tight.

Drive:	3/8"Sq
Sizes:	14, 16, 21mm, 16mm Thin Wall



C 4pc 3/8"Sq Drive Spark Plug Socket Set
Magnetic
Model No. AK65561

Forged, Chrome Vanadium steel, 3/8"Sq drive WallDrive® sockets with magnetic plug retention, external Hex and polished chrome finish. Set includes thin walled 16mm socket, for where clearance is tight.

Drive:	3/8"Sq
Sizes:	14, 16, 21mm, 16mm Thin Wall



D - E 3/8"Sq Drive Thin Wall Spark Plug Sockets
Model No. SEE BELOW

Designed for use where plug clearance is tight. Standard depth, thin wall, 3/8"Sq drive WallDrive® sockets.

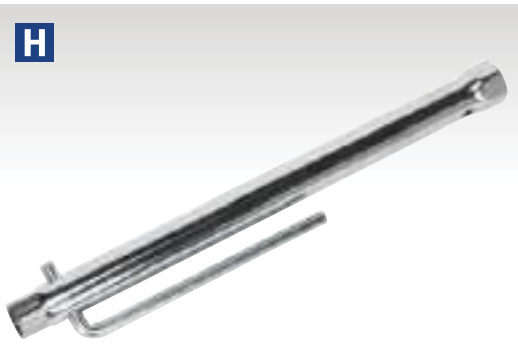
Model No:	Drive:	Size:	Type:
D AK6557	3/8"Sq	16mm	6-Point Walldrive
E AK6558	3/8"Sq	14mm	12-Point Walldrive



F 4pc 3/8"Sq Drive T-Bar & Rubber Insert Spark Plug Socket Set
Model No. AK6550

Features 2-in-1 wobble and rigid bar. Simply push the socket further onto the bar to fasten in the rigid position. Supplied with 14mm Bi-Hex, 16 and 21mm 6-point Chrome Vanadium spark plug sockets with rubber inserts.

Drive:	3/8"Sq
Sizes:	14, 16, 21mm



H 16 & 21mm Long Reach Double End Spark Plug Socket
Model No. AK1621

Designed for either 16mm or 21mm deep-seated spark plugs.

Sizes:	16, 21mm
Length:	300mm



I - J 3/8"Sq Drive 12-Point Spark Plug Sockets
Model No. SEE BELOW

Designed for use with deep-seated spark plugs. 250mm Long, 3/8"Sq drive, 12-point sockets.

Model No:	Length:	Size:
I AK6551	250mm	14mm
J AK6552	250mm	16mm



G Magnetic Spark Plug Sockets
Model No. SEE BELOW

Magnetic spark plug sockets. Forged Chrome Vanadium steel, hardened, tempered and chrome plated.

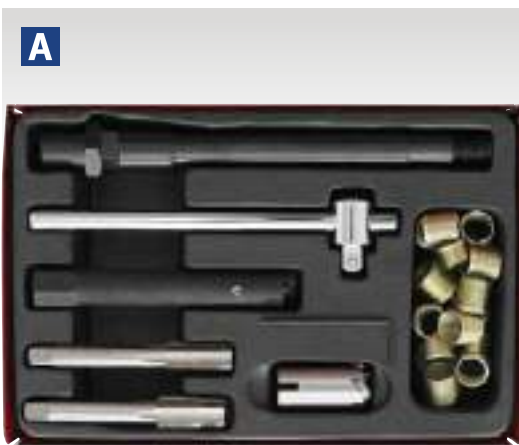
Model No:	Drive:	Size:
AK654	3/8"Sq	16mm
AK6541	3/8"Sq	21mm
AK6543	1/2"Sq	16mm
AK6544	1/2"Sq	21mm



K - L 14mm 3/8"Sq Drive 12-Point Magnetic Spark Plug Sockets
Model No. SEE BELOW

Designed for use where plug clearance is tight. Standard depth, thin wall, 12-point 3/8"Sq drive 14mm sockets with magnetic insert to retain spark plug. Model No. AK6569 features a universal joint for ease of access.

Model No:	Drive:	Size:	Application:
K AK6569	3/8"Sq	14mm	BMW
L AK6568	3/8"Sq	14mm	BMW



A Spark Plug Thread Repair Kit Model No. VS301

Comprehensive and time-saving kit of spark plug thread repair tools. Especially suitable for the repair of deep-seated plug configurations. Incorporates taper and plug taps together with integrated ream. Stepped tap ensures correct alignment of cutter in existing spark plug hole. Extension tools allow easy-access to the bottom of the plug recess. Includes set of plug inserts.

Tap:	M14 x 1.25mm
Step Tap:	M14 x 1.25, M16 x 1.25mm
Insert Lengths:	9.4, 15mm
Replacement Inserts:	VS301.9 (9.4mm), VS301.15 (15mm) (Packs of 10)



3/8"
Sq. Drive

Rubber
Insert



F 11pc 3/8" Sq Drive Master Service Set Spark/Glow Plug & Oxygen Sensor Model No. AK6562

Forged Chrome Vanadium master service set for the professional. Includes all the sockets and extensions required to remove/install spark/glow plugs and oxygen sensors on most modern vehicles. Supplied in storage case.

Spark Plug Socket Sizes:	14, 16, 21mm, 16mm Thin Wall
Glow Plug Socket Sizes:	8, 10, 12mm
(Each with Double Pin Universal Joint)	
Oxygen Sensor Socket Size:	22mm
Extension Bars:	75, 125mm
Universal Joint:	45mm Double Pin



12mm

3/8"
Sq. Drive



B 12mm Spark Plug Thread Chaser Model No. VS724

Suitable for cleaning corrosion and carbon build-up from spark plug threads. Also possible to restore minor cross threading damage. Designed for deep seated plugs where a slim profile drive is necessary to fit down into the head. Features shank above threads for recessed threads.

Drive:	3/8"Sq
Size:	12mm (1.25mm pitch)
Thread Length:	20mm
Maximum Drive:	Ø18mm



D Spark Plug Feeler Gauge Model No. VS518

Specially designed for gapping spark plugs and suitable for both traditional copper and precious metal plugs. Features an electrode adjuster allowing the electrode to be adjusted without levering against the core which can be easily damaged. Blade dimensions 75 x 13mm.

Blade Sizes:	0.5, 0.6, 0.7, 0.8, 0.9, 1, 1.1mm
--------------	-----------------------------------



G 300mm Spark Plug Pliers Model No. VS867

Suitable for removal of spark plug boot on deep-seated engine applications. Composite handles provide insulation from HT shock and give added comfort and control.

Length:	300mm
---------	-------



H Spark Plug Lead Tool - VAG Model No. VS5293

Separates the HT leads from the deep-seated spark plugs fitted to VAG vehicles. Essential tool for spark plug removal.

Length:	290mm
---------	-------



C 14 & 18mm Spark Plug Thread Chaser Model No. VS525

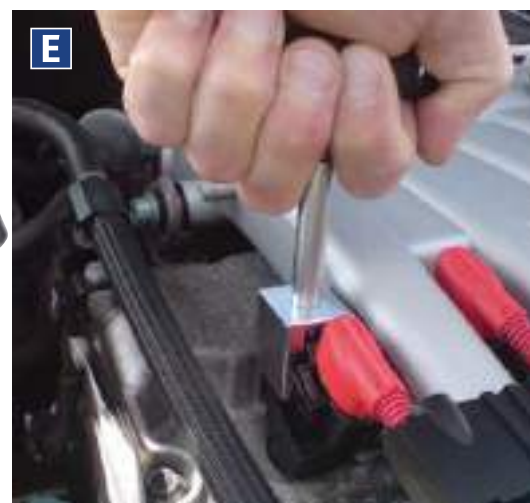
Suitable for cleaning corrosion and carbon build-up from spark plug threads. Also possible to restore minor cross threading damage. Use with a 21mm spark plug socket.

Size:	14 & 18mm
-------	-----------



E 5pc Ignition Coil Puller Set - VAG Model No. VS5294

Suitable for installation/removal of ignition coils and separating the HT leads from deep-seated spark plugs on VAG vehicles. Long shafts with composite T-style handle for added control and stability. Prevents damage to ignition coils whilst allowing faster removal. Supplied in storage case.





A 8 & 10mm Damaged Glow Plug Removal Set Model No. SX0408

Designed to remove damaged/broken glow plugs from cylinder heads. Set includes all required adaptors for drilling, centring and pulling for the safe removal of glow plug. Supplied in storage case.

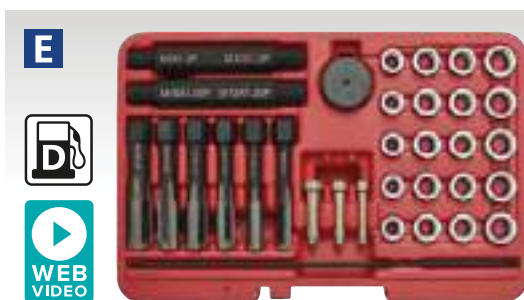
Tap Dimensions: 1/4NF28, M8 x 1mm, M10 x 1mm
Glow Plugs: M8 x 1mm, M10 x 1mm



D Glow Plug Puller Set Model No. VS313

A comprehensive set suitable for removing stubborn glow plugs. Ideal for removing plugs that have been unscrewed, but seized, due to residue build-up or where the filament has been distorted. Supplied in storage case.

External Clamping Collets: 2.7, 3.6, 5 (x2), 6mm
Internal Clamping Collet: 5.6mm



E 33pc Glow Plug Thread Repair Set Model No. VS311

Fast and effective remedy for damage to cylinder head glow plug threads. Set includes tools for the precise insertion of threaded inserts into the head and features a unique tap guide system to ensure their correct alignment. Includes four sizes of threaded adaptors suitable for common sizes of glow plug.

Tap Dimensions: M8 x 1mm, M10 x 1mm, M10 x 1.25mm, M12 x 1mm, M12 x 1.25mm, M14 x 1.25mm

Inserts: M8 x 1mm, M10 x 1mm, M10 x 1.25mm, M12 x 1.25mm

Replacement Inserts (Packs of 5):

Model No:	Size:
VS311.01	M8 x 1mm
VS311.02	M10 x 1mm
VS311.03	M10 x 1.25mm
VS311.04	M12 x 1.25mm



B 4pc 3/8\"Sq Drive Glow Plug Socket Set Model No. SX0402

Chrome Vanadium steel sockets with universal joints for simple replacement. Features rubber inserts for retention of plug in socket. Set includes 75mm extension bar.

Drive: 3/8\"Sq
Contents: Sockets; 8, 10, 12mm, 75mm Extension Bar



F 8 & 10mm Glow Plug Heater Element Removal Set Model No. VS315

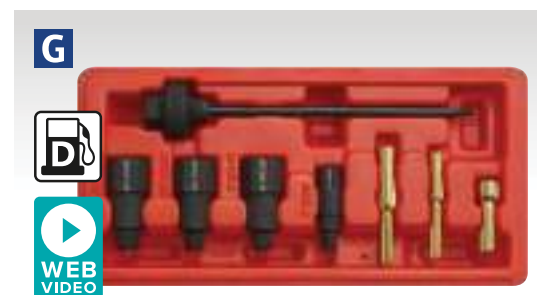
For removing the heater element that can break off during glow plug removal. Saves time not having to remove the cylinder head. Works by drilling/tapping a thread into the broken element so the supplied glow plug adaptors can be used to extract.

Contents:
Drilling/Tapping Guides: M8 x 1, M10 x 1, M10 x 1.25mm
Extraction Adaptors: M8 x 1, M10 x 1, M10 x 1.25mm
Tap & Threaded Rod Sizes: M3 x 0.5, M4 x 0.7mm
Drill Size: Ø2.5, 3.3mm



C 1/4\"Sq Drive Air Impact Wrench Glow Plug Kit Model No. SA141

Reduced torque impact wrench suitable for the removal of seized glow plugs on diesel engines. Features a 4-position air regulator which provides limited torque settings to suit. One-hand operation for trigger and forward/reverse control. Soft grip reduces vibration, chill effect and adds comfort. Handle exhaust helps to lower noise level during use. Supplied with foam insert and metal storage case. See page 732 for more details.



G 8pc Glow Plug Reamer/Base Cleaning Set Model No. VS312

Quickly removes accumulations of carbon residue inside the cylinder head, assisting the installation and effective operation of replacement glow plugs. Includes four ream guides which aid the centralisation of the Chrome Vanadium reams. Supplied in storage case.

Applications: M8, M10, M12 Glow Plugs
Guide Size: M8 x 1mm, M10 x 1mm, M10 x 1.25mm, M12 x 1.25mm



H 3pc Glow Plug Socket Set Model No. SX4033

Specialised socket set consisting of 8, 9 and 10mm sockets. Designed to remove and install glow plugs without having to cut the power lead off. Applications include Alfa Romeo, Fiat, GM and PSA engines.



A 6pc 1/2" Sq Drive Injector Window Socket Set
Model No. **SX0401**

Six, Chrome Molybdenum, open-sided, 1/2" Sq drive sockets for injector removal and installation.

Drive:	1/2" Sq
Size:	(1) 90 x 21mm, (2) 80 x 22mm, (3) 110 x 22mm, (4) 80 x 27mm, (5) 80 x 28mm, (6) 83 x 28mm



Before After

B 10pc Injector Seat Cleaner Set
Model No. **VS2055**

Set of seven diesel injector seat cleaners, ream, centring pilot and T-handle. Used to clean/decarbonise injector seats when changing injectors. Helps to avoid blow-back due to poorly seated injectors. Suitable for a wide range of vehicles.

Centring Pilot:	7mm
Reamer Sizes & Applications:	15mm Flat; Various Vehicles, 17mm Flat (x2); Delphi/Bosch (BMW, PSA, Ford), Bosch (Mercedes CRD), 17mm Angled (x2); (Fiat, Iveco), 18mm Flat; Various Vehicles, 20mm Flat; Various Vehicles, 15.5mm Side Ream



H 20pc Cleaning & Decarbonising Brush Set
Model No. **VS1800**

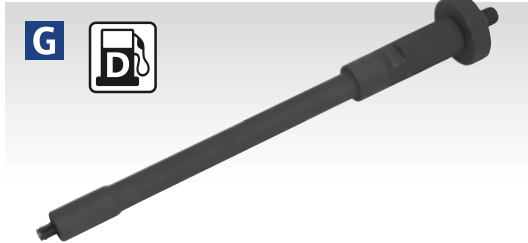
Ideal for cleaning and decarbonising areas with limited access, especially injector apertures before refitting. Supplied in sizes from Ø9-19mm in brass, nylon and steel. Features quick release extension bar for increased reach.



C 4pc Injector Socket Set - Commercial
Model No. **VS2061**

Suitable for the removal and installation of truck and bus diesel injectors. Castellated socket fits common injectors on MAN, Mercedes, Neoplan and Setra. Also suitable for some Iveco, Renault and Scania vehicles. Supplied in storage case

Contents:	1/2" Sq Drive x 72mm x 4-Tooth, 1/2" Sq Drive x 120mm x 3-Tooth, Hex 32mm x 70mm x 4-Tooth (M14 x 1.5mm Receiver Thread), Hex 32mm x 122mm x 4-Tooth for MAN, Mercedes, Neoplan & Setra
------------------	---



G Injector Seal Removal Tool
Model No. **VS2054**

Designed to remove the copper injector seal when it has stuck into the head. Adjusts to allow seals with 6.7-8.7mm internal diameter to be removed. Simply drop the tool into the hole left by the injector, tighten the handle and lift out the seal.

Minimum/Maximum Internal Size:	Ø6.7-8.7mm
Length:	265mm



D - F 1/2" Sq Drive Injector Sockets
Model No. **SEE BELOW**

Chrome Vanadium steel sockets for diesel injector removal and installation. Suitable for injectors fitted to Ford, Mitsubishi, Nissan, Vauxhall/Opel, VW and commercial vehicles.

Model No:	Depth:	Size:	Drive:
D SX024	80mm	27mm	1/2" Sq
E SX041	100mm	22mm	1/2" Sq
F SX042	84mm	21mm	1/2" Sq



Brush Type:	Brass, Nylon, Steel
Brush Fill/Overall:	50/100mm
Brush Sizes:	Ø9, 11, 13, 15, 16, 17, 19mm
Extension Bar Length:	150mm
Quick Release Coupling:	Ø14mm



A Injector Puller Set Model No. VS2059



Suitable for the fast and safe removal of Bosch, Delphi, Denso and Siemens diesel injectors. Set includes keys and deep open profile sockets, used to dismantle injectors, plus adaptors for attaching the slide hammer securely to the body of the injector. Ball joint allows hammer to be used in confined areas.

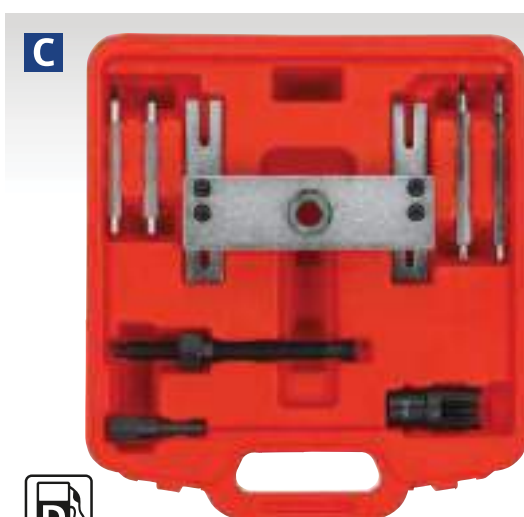
Contents: Slide Hammer, 1/2" Sq Drive Sockets; 25, 27, 29, 30mm, Tamperproof Key, Adaptor (x5) (Bosch, Delphi, Denso, Siemens), Ball Joint



B Injector Master Kit Model No. VS2064

Suitable for the removal of Bosch, Delphi, Denso, Siemens and Pumpe Duse diesel injectors. Set includes keys and deep open profile sockets, used to dismantle injectors, plus a selection of adaptors for attaching the slide hammer securely to the body of the injector. Ball joint and choice of two sizes of slide hammer allow access in confined areas if required.

Contents: Slide Hammers; 1.3kg with 150mm Shaft, 4kg with 400mm Shaft, 4kg Slide Hammer Handle, Flexible Joint, Security Hex Key 10mm, Male Adaptors; 10 x 1.5, 16 x 1.5, 17 x 1, 20 x 1, 25 x 1, 27 x 1mm, Female Adaptors; 14 x 1.5, 27 x 1mm (3pc), Hexagonal Adaptors; 17mm (10 x 1.5 Female), 21mm (14 x 1.5 Female), 'C' & 'J' Adaptors (Pump Duse), Claw Adaptor, Injector Cap Sockets 1/2" Sq Drive; 25, 27, 29, 30mm



C Injector Puller - BMW M47/M57 Model No. VS2075

Designed for removing BMW 2.0, 2.5, 3.0 diesel fuel injectors from M47/M57 engines. Allows the removal of seized injectors without the need to remove the cylinder head. Bridge fits perfectly on the cylinder head preventing damage to the area surrounding the injector. Also suitable for some Land Rover, MG and Vauxhall/Opel vehicles that share the same engine.

BMW: 2.0, 2.5, 3.0
Engine Codes: M47/M57
Contents: Pulling Bridge, Bridge Leg (x4), 10mm Security Hex Key, Ø27mm Injector Cap Socket, Injector Force Screw Thread; Ø17mm Male x 1mm Pitch, Injector Force Screw Nut



D Air Hammer Adaptor for Injector Puller Model No. VS2074

For use with Sealey injector puller slide hammer sets Model No's VS2059 & VS2064, or a similar tool that has a minimum 350mm shaft length and air hammer. Adaptor allows the air hammer to be used to vibrate the injector loose, instead of using a slide hammer. Ideal for stubborn injectors when an alternative method of removal is required. Supplied in storage case.

Adaptor Shank Size: .401" Parker Taper

F Injector Lifter Model No. VS2040

Designed to aid the removal of diesel injectors, limiting the risk of damage to injector and cylinder head. Set includes female adaptor for Ø12mm x 1.5mm injector pipe threads, plus mini slide hammer.

Injector Thread Sizes: Ø12mm x 1.5mm Pitch
Slide Hammer: 0.80kg



E Bosch/Delphi Injector Puller Set Model No. VS2049

Suitable for the removal of stubborn Bosch/Delphi diesel injectors. Set includes two adaptors for different removal methods. The first screws onto the injector cap and the second locates internally inside the injector allowing extra force to be used. Features a flexible joint allowing the slide hammer to be used in restricted areas. Supplied in storage case.

Contents: 1.8kg Slide Hammer, Flexible Joint, Adaptors (x2) 10mm Security Hex Key, Injector Cap Socket
Adaptor Thread Sizes: Ø27mm Female x 1mm Pitch





A Diesel Injector Puller Bosch

Model No. **VS7950**

Suitable for Bosch injectors fitted in a wide variety of diesel engines. Used in conjunction with a slide hammer (not included).

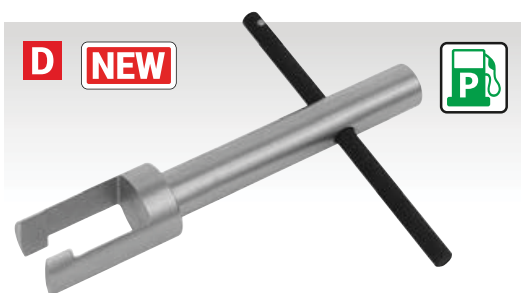


C Diesel Injector Puller Kia/Hyundai

Model No. **VS7940**

Suitable for Hyundai and Kia D4CB engines. Used in conjunction with a slide hammer (not supplied).

Applications: Hyundai; H200 (01-08), H300 (08-18), i800 (08-18), iLoad (08-18), Montana (11-18), Kia; Sorento (02-10)



D Injector Removal Tool Mercedes M271 Engine

Model No. **VS9033**

Injector removal tool for Mercedes M271 engine.



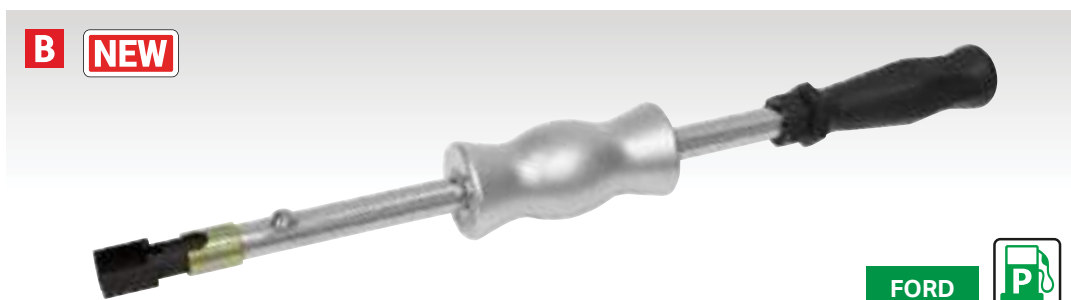
G 8pc Diesel Injector Repair Socket Set

Model No. **VS2068**

Suitable for repairs on Bosch, Denso and Siemens injectors. 6.6, 7.6mm Hex security bits 20mm Hex/1/2" Sq Drive. 16mm 8-Sided socket for Bosch common rail Injectors. Denso common rail injector valve seat removal tool. Injector ball valve lapping tools and guide. Manufactured from Chrome Vanadium steel and S45C. Supplied in storage case.

Drive: 1/2" Sq

Applications: Bosch, Denso and Siemens injectors



B Petrol Injector Puller - Ford EcoBoost

Model No. **VS2067**

Extracts petrol injectors easily without damaging the injector or head. Includes slide hammer and specially designed injector claw. Equivalent to OEM 310-206.

Applications:

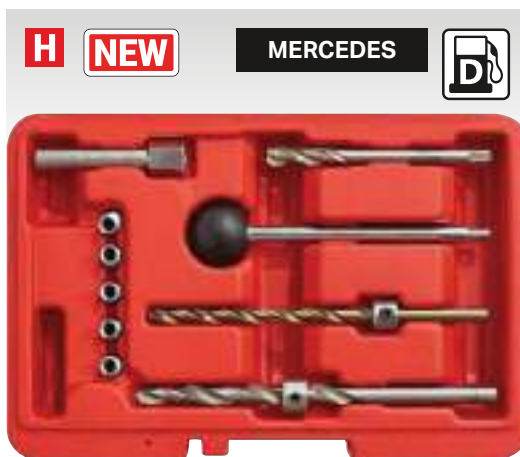
Ford; GDI & GTDI EcoBoost engine ranges from 1.0L to 2.3L



E Land Rover TD5 Injector Puller

Model No. **VS2541**

Suitable for Land Rover Defender (1999 - 2007), Discovery II (1998 - 2005). TD5 Diesel engine codes 10P, 15P, 16P. Includes a slide hammer.



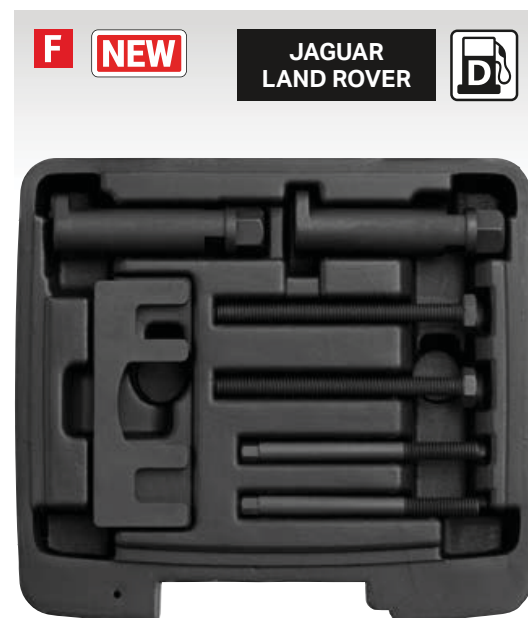
H Mercedes CDI Injector Stud Repair Kit

Model No. **VS640**

Threaded insert repair kit for Mercedes CDI engine Injector clamping bolt. Enables a broken stud repair to be carried out with minimal dismantling. Contents: M8 x 1mm Tap, 7mm/8mm Stepped Drill, 6mm Drill, Drill Guide, Thread Insert Fitting Tool, M8 x 1mm Threaded Inserts (x5). Thread inserts available separately in packs of five.

Associated Tool: VS640RF - Thread Repair Insert

Refill - Pack of 5 (see I)



F Diesel Injector Puller - Jaguar, Land Rover

Model No. **VSE5217**

Suitable for 2.7TDi V6 and 3.6TDi V8 common rail diesel engines. Applicable to 276DT and 368DT engine codes used in Jaguar and Land Rover vehicles.



J 0-30V Power Scope Automotive Probe

Model No. **PP100**

See page 475 for full details.



FORD
JAGUAR

A Injector Alignment Tool - Ford, Jaguar Model No. VS2066

Essential tools for holding the injectors in place when tightening the injector collar and high pressure fuel pipes. Set includes one alignment bar to align two injectors at the same time and one adjustable, making this set suitable for 2.0, 2.2 and 2.4 diesel engines.

OEM Tools: 303-678 (Solid Bar), 303-711 (Adjustable)

Applications: Ford; Mondeo Mk3 (00-07), Transit (00-06), Jaguar; X-Type (03-09)

Engines: Diesel; 2.0, 2.2, 2.4 Di, TDCi, TDDi - Duratorq 'Puma'



MERCEDES

C Injector Puller - Mercedes CDI Model No. VS2056

Specially designed for the removal of stubborn diesel injectors fitted on Mercedes CDI engines. Features injector cap removal socket, security hex key for removing the inner part of the injector, and a puller to remove the injector without damaging the cam cover. This engine type is fitted mainly to C-Class, E-Class and Sprinter vehicles. Supplied in storage case.

Puller Thread Size: Ø17mm x 1mm Pitch



E Fuel System Cleaner - Diesel Engines Model No. FSCD300

Designed to remove resin deposits, prevent the oxidation of fuel and the growth of micro-organisms. Lubricates and protects the diesel injection system and the upper cylinder area. Suitable for all diesel engines including those fitted with a particle filter, turbocharger and catalytic converter. Pour directly into the fuel tank when refuelling, treats 80L of diesel fuel.

Size: 300ml



CITROEN
FIAT
PEUGEOT

B Injector Puller Citroen, Peugeot Model No. VS2005

Comprehensive set for removing Citroen/Peugeot 2.0/2.2Hdi 16v fuel injectors. Allows the removal of seized injectors without the need to remove the cylinder head. Bridge fits perfectly on the cylinder head preventing damage to the area surrounding the injector.

Applications:

Citroen 2.0Hdi: C4 (04-13), C4 Picasso/Grand Picasso (06-13), DS4 (11-13), C5 (04-15), DS5 (12-15), C8 (02-10), Dispatch (99-12), Jumpy III (07-12)

Citroen 2.2Hdi: C5 (07-09), C6 (06-11), C8 (02-10), C-Crosser (07-12)

Peugeot 2.0Hdi: 307 (01-09), 308 (07-16), 3008 (02-15), 407 (04-12), 508 (11-16), 5008 (09-16), 607 (00-11), RCZ (10-15), Expert III (07-16)

Peugeot 2.2Hdi: 508 (11-15), 4007 (07-12), 607 (00-09), 807 (02-10)

Fiat 2.0D Multijet: Scudo (07-13)

Contents: Pulling Bridge, Bridge Leg (x3), 10mm Security Hex Key, Injector Cap Sockets; Ø25, Ø29mm, Injector Force Screw Threads; Ø17mm Male x 1mm Pitch, Ø25mm x 1mm Pitch, Injector Force Screw Nut



D 9pc 3/8\"Sq Drive Injector Pipe Socket Set Model No. AK6985

Set includes flexible 3/8\"Sq drive adaptor, hinged at both ends for ease of access to confined areas and 10-17mm crow's foot injector pipe sockets. Supplied in a storage case.

Drive: 3/8\"Sq

Contents:
Crow's Foot Injector Pipe Sockets: 3/8\"Sq Drive; 10, 11, 12, 13, 14, 15, 16, 17mm



F Fuel System Cleaner - Petrol Engines Model No. FSCP300

High performance fuel system cleaner for all petrol engines. Removes varnish and gum deposits from the entire fuel system. One can sufficient for 60 to 80L of petrol, simply add to the fuel tank before refuelling.

Size: 300ml



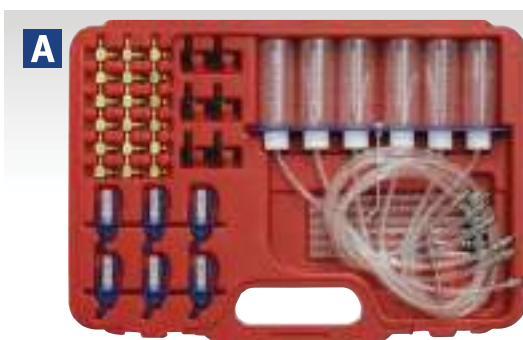
G Compression Test Kit Model No. VSE3158

See page 444 for full details.

Applications: Alfa Romeo, Audi, BMW, Cadillac, Chrysler, Citroen, Dacia, Dodge, Fiat, Ford, Honda, Jaguar, Jeep, Lancia, Land Rover, Mazda, Mercedes, MG, Mini, Mitsubishi, Nissan, Peugeot, Porsche, Renault, Rover, Saab, Seat, Skoda, Suzuki, Toyota, Vauxhall/Opel, Volvo, VW

Contents: M17, M20, M24

Gauge Scale: 0-70bar(0-1000psi)


Master


A Master Injection Leak Back Kit Bosch/Delphi/Denso Model No. VS2048

Updated kit designed to measure return fuel flow on diesel vehicles up to 6-cylinders, fitted with common rail injection system. Identifies worn, blocked or inoperative injectors quickly and easily. Contains measurement tubes for short term tests and measurement bottles for long term, more accurate evaluation. Master kit includes range of adaptors to suit Bosch, Delphi, New Delphi and Denso injectors for comprehensive coverage of common rail diesel vehicles.

C Injector Nozzle Tester Model No. VS2058

Enables the testing of injectors under pressure. Fitted with Ø88mm gauge with rubber bumper reading both psi and bar. Ideal for checking of atomisation pattern and opening pressure. Transparent reservoir fitted with fine filter. Supplied with two injector connection pipes.

Gauge Scale: 0-600bar/0-8700psi
Connecting Pipework: M12/M14



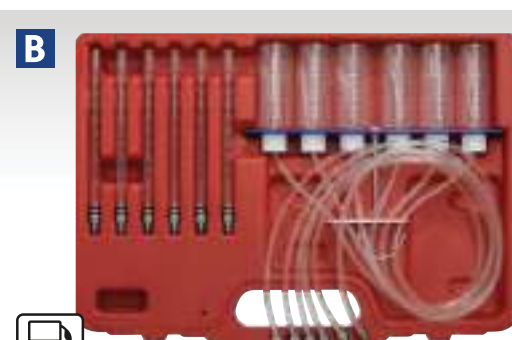
E Fuel Injection Pressure Test Kit Model No. VSE210

Comprehensive kit of adaptors and fittings for modern petrol fuel injection systems. Components fitted with quick coupling system and safety valve to prevent inadvertent discharge of fuel under pressure. Supplied with large high pressure gauge reading 0-145psi and 0-1000kPa and a small low pressure gauge for accurate low pressure readings. Pressure release valve fitted with long drain hose allows safe recovery of fuel.



F Fuel Injection Pressure Test Kit Model No. VSE212

Comprehensive kit of hoses, adaptors and fittings for testing the pressure on modern petrol fuel injection systems. Fitted with quick couplings and safety valve to prevent inadvertent discharge of fuel under pressure. Supplied with Ø92mm single high pressure gauge with rubber bumper, reading 0-140psi and 0-10bar. Pressure release valve fitted with long drain hose allows safe recovery of fuel.



B Injector Flow Test Kit - Common Rail Model No. VS2046

Designed to measure return fuel flow on diesel vehicles up to 6-cylinders fitted with common rail injection system. Identifies worn, blocked or inoperative injectors quickly and easily. Supplied with measurement tubes for short term tests and measurement bottles for long term, more accurate evaluation.



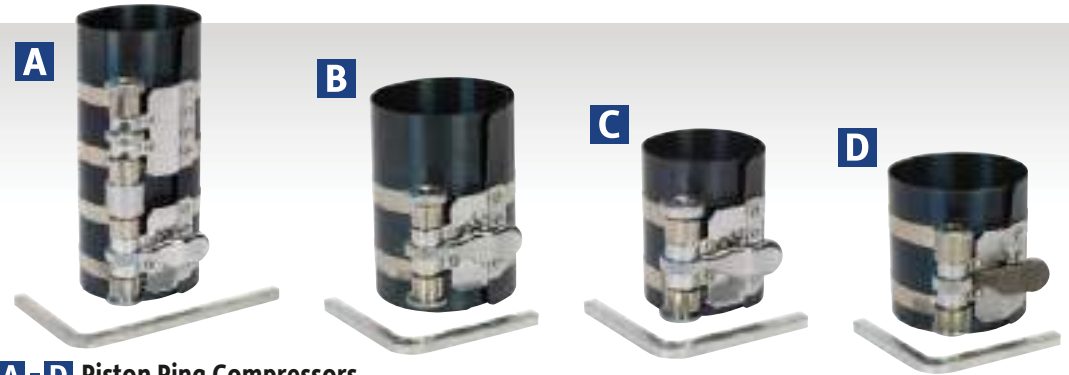
D 12pc Fuel Line Blanks Set Model No. VS557

Set of 12 diesel fuel line blanks, mainly fitted to Ford, PSA and Renault. Contains six pairs of male and female connectors covering three connector types. Ideal for stopping the flow of fuel after pipework has been disconnected.



G Fuel Injection Pressure Test Kit - Test Port Model No. VSE211

Comprehensive kit of adaptors and fittings for modern Schrader test port fuel injection systems. Components fitted with quick coupling system and safety valve to prevent inadvertent discharge of fuel under pressure. Supplied with large high pressure gauge reading 0-145psi and 0-1000kPa. Gauge has hanging hook and protective bumper. Pressure release valve fitted with long drain hose allows safe recovery of fuel.



A - D Piston Ring Compressors
Model No. [SEE BELOW](#)

Quality construction with sprung steel wraps and ratchet action tension mechanism. Supplied with steel key

	A	B	C	D
Model No:	VS158	VS157	VS156	VS155
Depth:	150mm	100mm	75mm	75mm
Capacity:	Ø60-150mm	Ø60-150mm	Ø60-175mm	Ø60-125mm



E Wrinkle Band Spring Compressor
Model No. [VS149](#)

Wrinkled spring steel compression band reduces surface contact friction and prevents tool from slipping into the cylinder bore. Cam-action compression allows one time setting of piston diameter enabling fast insertion of piston assembly.

Depth:	37mm
Capacity:	Ø76-127mm



F Ø40-100mm Piston Ring Installation Pliers
Model No. [VS1642](#)

Designed for the installation and removal of Ø40-100mm piston rings. Jaws are shaped to protect the piston ring from damage. Vinyl gripped handles with spring-return mechanism.



G Piston Ring Pliers 1.2-5mm Capacity
Model No. [VS164](#)

Installs and removes piston rings from 1.2mm to 5mm. Vinyl gripped handles with spring return mechanism.



I Piston Ring Groove Cleaner
Model No. [VS148](#)

Fast and reliable removal of carbon and glaze deposits from piston ring grooves. Suitable for pistons between Ø51mm and Ø127mm. Supplied with three 6-bladed cutters covering most popular piston groove sizes.

Cutter #1:	1/16", 5/64", 3/32", 1/8", 5/32", 3/16"
Cutter #2:	2, 2.5, 3, 4, 4.5mm, 1/4"
Cutter #3:	1.2, 1.5, 1.8, 2.8, 5, 5.5mm



J Camshaft Positioning Tool
Model No. [VS173](#)

Adjustable legs allow insertion of pegs into holes in camshaft pulleys. Suitable for coarse and fine positioning of camshaft for timing on a variety of engines including Ford Zeta and Zetec.

Length:	385mm
---------	-------

K Intake Manifold Pipe Release Tool - VAG
Model No. [VS760](#)

Used for releasing intake manifold pipes. Suitable for 1.0, 1.2 and 1.4 direct injection petrol engines.

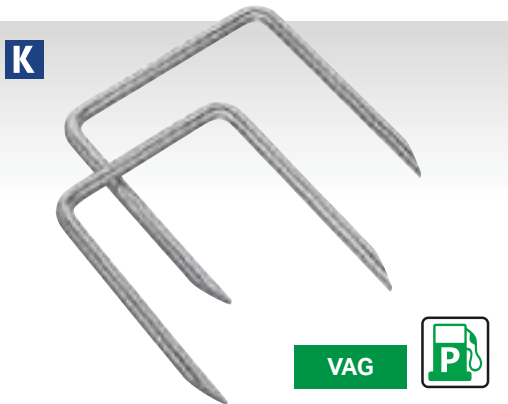
OEM Tool:	T10527/1
Audi:	A3 (13-18), Q3
Seat:	Leon (13-18), Ibiza (08-18), Ateca
Skoda:	Octavia (13-18)
Volkswagen:	Golf (13-18)



H Ø6mm Video Borescope - Articulated
Model No. [VS8233A](#)

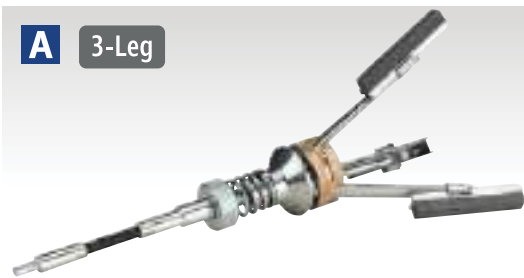
Portable articulated borescope supplied with 70mm TFT colour display. Mini waterproof (IP67) camera with integral light (Ø6mm) mounted on 800mm flexible 2-way articulated probe. Using an attached dial, the camera head angle can be changed by up to 350° without having to remove camera from inspection area. Using 8GB micro SD card (supplied) up to 9hrs of video and 20000 still images can be recorded. Videos and still images can be downloaded to a PC via USB data cable (supplied). CMOS camera with six LED probe light and a focus distance of 20-50mm for fine control of light output and clear pictures. Potential applications; automobile maintenance, engine inspection, pipe line exploration etc. Powered by 4 x AA batteries (not included).

Camera:	Ø6mm
Camera Probe Length:	800mm
Viewing Angle:	60°
Pod Length:	20mm
Screen Size:	70mm
Screen Resolution:	640 x 480 pixels (colour)



VAG





A Triple Leg Cylinder Hone
75mm Medium Stones
Model No. VS162

For removal of heat glaze and carbon deposits on cylinder walls. Fitted with 75mm, medium grade cutting stones and suitable for cylinders up to Ø175mm. Range collar adjusts arm travel between Ø50mm and Ø100mm or Ø100mm and Ø175mm. Adjustable spring tension gives finish control.

Size: Ø50-175mm



D Replacement Stone Sets for VS162
Model No. SEE BELOW

Model No:	Grade:	Pack Qty:
VS1621	Medium	3 Stones
VS1622	Course	3 Stones
VS1623	Fine	3 Stones



G 4-in-1 Cylinder Hone Kit
Model No. VS029

Four cylinder-honing tools in one kit, covering 18mm to 89mm cylinder bores. Suitable for honing and de-glazing car brake and clutch cylinders plus motorcycle, outboard and lawnmower engine cylinders. Adjustable honing pressure and flexible drive shaft. Supplied in storage case.

Leg Configuration:	Bore Sizes:
Large Triple:	Ø32-89mm
Small Triple:	Ø19-68mm
Standard Twin:	Ø18-64mm
Stone Sizes:	3 x 18, 3 x 28, 3 x 50mm



B Twin Leg Cylinder Hone
Model No. VS022

Flexible drive shaft and adjustable cutting control. Fitted with 28.5mm(1-1/8") medium grade stones with adjustable capacity from Ø20 to 64mm. Suitable for small brake cylinders.

Size: Ø20-64mm



E Replacement Stone Sets for VS022 & VS023
Model No. SEE BELOW

Model No:	Grade:	Pack Qty:
E VS0221	Medium	3 Stones
F VS0222	Course	3 Stones



H Adaptive Cruise Control Adjustment Tool
VAG
Model No. VS809

For adjusting the adaptive cruise control (ACC) RADAR unit. Equivalent to VAG tool VAS6190/2. Manufactured from Chrome Vanadium with satin finish.

Overall Length: 256mm



J NEW

VAG

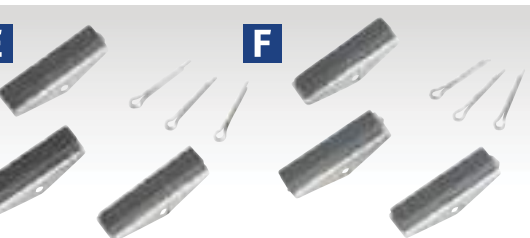
3/8" Sq. Drive



C Triple Leg Cylinder Hone
Model No. VS023

Flexible drive shaft and adjustable cutting control. Fitted with 28.5mm(1-1/8") medium grade stones with adjustable capacity from Ø25 to 64mm. Suitable for small and medium sized brake cylinders.

Size: Ø25-64mm



E Replacement Stone Sets for VS022 & VS023
Model No. SEE BELOW

Model No:	Grade:	Pack Qty:
E VS0221	Medium	3 Stones
F VS0222	Course	3 Stones



I 1.2m Telescopic Bonnet/Tailgate Support
Model No. VS0140

Three tier telescopic aluminium tailgate/bonnet support with tough rubber pads at each end. Lock in any position with a simple twist. Also suitable for holding open doors, depressing clutch, brake or accelerator pedals.

Length: 242-1200mm

J 12mm 3/8" Sq Drive
Turbocharger Wrench - VAG
Model No. VS2033

Designed to access the turbocharger fitting located underneath the turbocharger. Suitable for VAG diesel vehicles. Manufactured from Chrome Vanadium steel.

Size:	12mm
Drive:	3/8" Sq

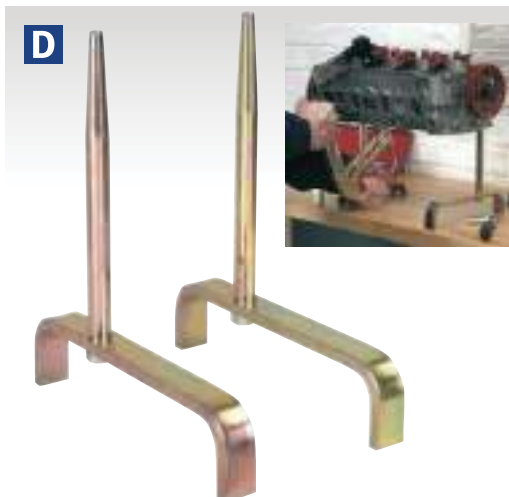
A

**A 10pc Valve Seat Cutter Set****Model No. VS1823**

Suitable for re-cutting inlet/exhaust valve seats concentric to the valve guides. Features tungsten carbide cutting blades, expandable pilots and double end cutters for increased application. Supplied in storage case.

Pilot Range:	5.5, 7-10mm
Cutter Sizes:	Ø28-37mm 30°, Ø28-37mm 45° & 75°, Ø37-44mm 75°, Ø37-46mm 45° & 60°

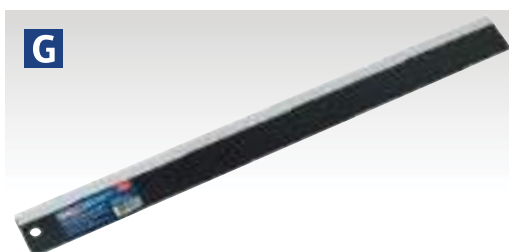
D

**D Cylinder Head Stands****Model No. VS1555**

A pair of support stands which locate into cylinder head via stud holes. Also provides the clearance between head and workbench required when reaming valve guides.

Pin Size:	Ø16mm
------------------	-------

G

**G 610mm Technician's Straight Edge****Model No. VS1481**

Suitable for testing for distortion on cylinder heads and engine blocks during engine overhauls and rebuilds. May be used with feeler gauges for high precision work. Features peg hole for easy storage. Supplied with protective edging for when not in use.

Length:	610mm
----------------	-------

B

**B 14pc Valve Seat Cutter Set****Model No. VS1825**

Suitable for re-cutting inlet/exhaust valve seats concentric to the valve guides. Features tungsten carbide cutting blades, expandable pilots and double end cutters for increased application. Supplied in storage case.

Pilot Range:	5.5, 7-13mm
Cutter Sizes:	Ø28-37mm 45° & 75°, Ø28-37mm 30° & Ø37-44mm 75°, Ø37-46mm 45° & 60°, Ø37-46mm 30° & Ø44-52mm 75°, Ø46mm 45° & Ø60mm 30°, Ø52mm 75° & Ø65mm 60°

E

**E 10pc Gasket Punch Set****Model No. AK709**

Carbon steel body with spring loaded centring pin. Suitable for cutting gasket material, cork or leather. Supplied in storage case with nine dies.

Contents: Dies; 5, 6, 8, 10, 12.5, 16, 20, 25, 32mm, Punch

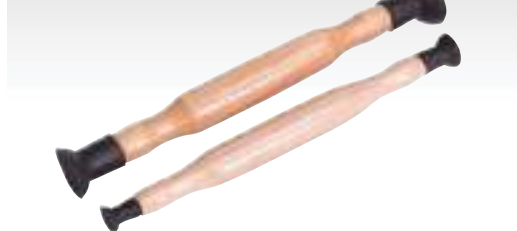
H

**H 600mm Precision Straight Edge****Model No. VS1480**

Suitable for testing for distortion on cylinder heads and engine blocks during engine overhauls and rebuilds. May be used with feeler gauges for high precision work. Supplied in storage case.

Length:	600mm
----------------	-------

C

**C 2pc Valve Grinder Set****Model No. VS1653**

Set of two valve grinders with wooden shafts. Suitable for grinding most engine valves. Features four sizes of rubber suction cup.

Suction Cup Sizes:	15, 20, 28, 34mm
Shaft Lengths:	210, 225mm

F

**F Cylinder Head Component Organizer****Model No. VSR01**

An essential item for a cylinder head rebuild. Keeps all components neat and tidy as they come off the cylinder head.

I

**I 50-160mm Dial Bore Gauge****Model No. DBG5010**

Precision mechanism with Ø55mm dial and locking rotating bezel, offering an accurate method of measuring a bore or detecting a taper or ovality. Will indicate the deviation from set size by up to 3mm with an accuracy of 0.01mm. Probe body, dial indicator, anvils and spacer rings are also included. Supplied in wooden storage case.

Measuring Range:	50-160mm
Maximum Deviation Measurement, Gauge:	3mm
Maximum Deviation Measurement with Stem:	1mm
Dial Diameter:	Ø55mm
Graduation:	0.01mm



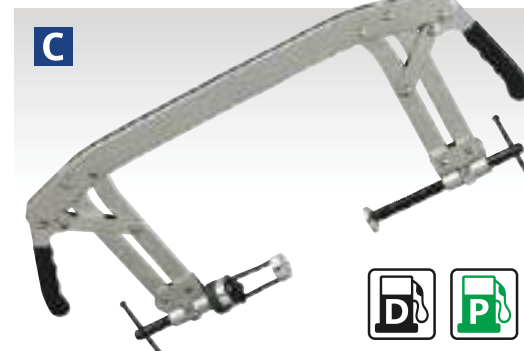
A OHV Valve Spring Compressor
Model No. VS152

Suitable for most small and medium sized OHV engines. Fully adjustable jaw with 75-165mm capacity and 150mm throat depth. Parallel lift action with automatic lock.



B OHC/OHV/CVH Valve Spring Compressor
Model No. VS153

Suitable for most small and medium sized OHC engines and also for general use on OHV and CVH engines. Universal jaw with 60-155mm capacity and 160mm throat depth. Parallel lift action with automatic lock.



C Valve Spring Compressor - Multi-Valve
Model No. VS154

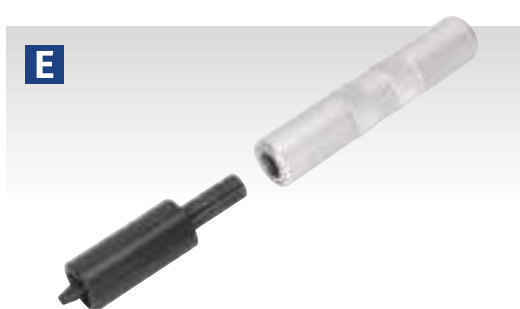
Suitable for use on multi-valve petrol and diesel engines with deep-seated valves. Also suitable for general use on OHC, OHV and CVH engines. Universal jaw with 55-175mm capacity and 165mm throat depth. Reversible jaw and adaptor. Twin cam-action permits use from above or below valve.



D OHV Valve Spring Compressor
Model No. VS168

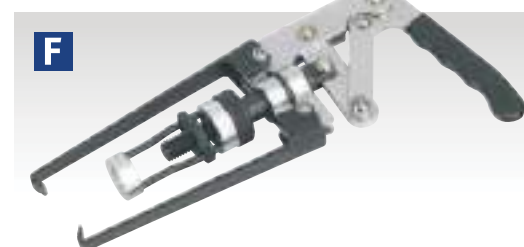
Suitable for the replacement of valve springs and valve stem oil seals without the need to remove the cylinder head. Use in conjunction with Model No. VS1601 Compressed Air Adaptor. Adjustable handle, claws and hooks allow use on most OHV engines.

Note: Not suitable for vehicles with deep-seated valves.



E Valve Collet Remover/Installer
Model No. VS1542

For quick removal/installation of valve collets, firmly push or tap tool with a hammer, magnet in tool captures collets. Can be used with cylinder head in situ or on workbench. Ideal for replacing broken valve springs or valve stem oil seals without removing the head from the engine. For in situ use, a suitable adaptor (not included) will be required to allow compressed air into the combustion chamber to hold the valve closed while compressing the valve spring.



F OHV Valve Spring Compressor
Model No. VS160

Permits valve springs and valve stem oil seals to be replaced without the need to remove the cylinder head when used in conjunction with Model No. VS1601 Compressed Air Adaptor. Reversible jaw adaptor and automatic cam-action lock to preset spring tension. Suitable for use on a wide range of OHV, OHC and CVH engines.

Note: Not suitable for engines with deep-seated valves.



G Compressed Air Adaptor
Model No. VS1601

Use with Model No's VS160 or VS168 to hold the valves closed whilst spring is compressed. Spark plug adaptor with M14 and M18 threaded fittings for car and light commercial use. Valve assembly maintains cylinder pressure when air supply is cut. Requires a 90-125psi supply. Requires standard bayonet air line coupling (not supplied).



H Rocker Arm & Valve Compensator Tool
Model No. VS151

Suitable for use on Vauxhall/Opel OHC engines. Permits quick, on-vehicle, removal of rocker arm and valve play compensator. Mounts on camshaft housing. Cast construction with knurled hex head fixing.



I Valve Collet Installer/Remover
8/16/24 Valve
Model No. VS1651

Spring loaded shaft and clips aid simple and secure installation of valve spring collets. Quick and easy retrieval of lost collets using magnetic tip. Suitable for 8, 16 and 24 valve engines. Ideal for use on heads with recessed valves.

Length:	220mm
Valve Suitability:	8/16/24



J CVH Valve Spring Compressor - Ford
Model No. VS150

Permits valve stem seal and valve spring replacement without the need to remove the cylinder head. Superior cast design with radiused fulcrum for smooth spring compression. Suitable for CVH Ford engines 1.3, 1.4 and 1.6 as fitted to Escort (inc. XR3i and RS Turbo) and Fiesta (inc. RS Turbo).



K Valve Stem Seal Pliers
Long Stem Straight 16/24 Valve
Model No. VS1671

Steel long stem aids removal and installation of valve stem seals on 16 and 24 valve OHC engines. Serrated tips aid grip. Especially suited to stubborn seals.

Type:	Straight Head
Length:	270mm



A - P Induction Coils
Model No. **SEE BELOW**

Model No:	Type:	Size:	Suitability:
A VS2301	Direct Coil	Ø15mm	VS230, VS240, VS250
B VS2302	Side Coil	Ø15mm	VS230, VS240, VS250
C VS2303	Direct Coil	Ø20mm	VS230, VS240, VS250
D VS2304	Side Coil	Ø20mm	VS230, VS240, VS250
E VS2305	Direct Coil	Ø30mm	VS230, VS250
F VS2306	Side Coil	Ø30mm	VS230, VS250
G VS2307	Direct Coil	Ø32mm	VS230, VS250
H VS2308	Side Coil	Ø32mm	VS230, VS250
I VS2309	Pad Coil	Ø55mm	VS230, VS240, VS250
J VS2310	Flex Coil	920mm	VS230, VS250
K VS2311	Induction Block	(W x D x H): 50 x 30 x 35mm	VS230, VS250
L VS23111	Induction Adaptor	Ø29mm	VS230, VS250
M VS2314	Recessed Induction Adaptor	Ø36mm	VS230, VS250
N VS2407	Direct Coil	Ø32mm	VS240
O VS2410	Flex Coil	830mm	VS240
P VS2411	U-Coil	430mm	VS240



Q Maxi Butane Heating Torch
Model No. **AK2957**

See page 261 for full details.

A 1000W Induction Heater

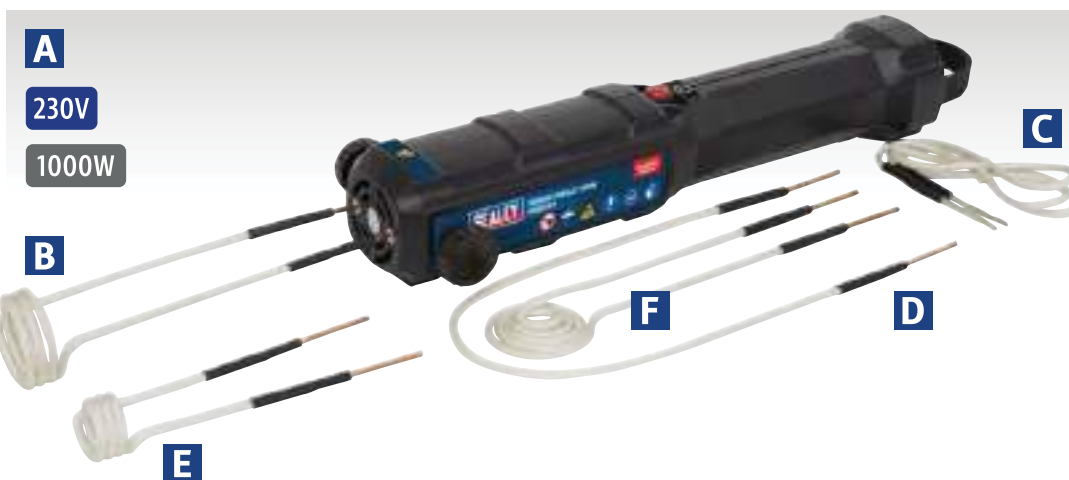
Model No. **VS240**

Mobile induction heater for fast heat delivery. Install appropriate coil and place over or around ferrous metal. Ideal for loosening stubborn and seized fixings. Supplied with induction pad for plastic trim/sticker removal. Induction element delivers high heat fast and effectively. Supplied in storage case.

Frequency:	50/60Hz
Power:	1000W
Supply:	230V
Nett Weight:	1.7kg

Contents:

Model No:	Description:
B VS2407	Ø32mm Direct Coil
C VS2410	830mm Flex Coil
D VS2411	430mm U-Coil
E VS2303	Ø20mm Direct Coil
F VS2309	Ø55mm Pad Coil



G 2000W Induction Heater

Model No. **VS230**

Mobile induction heater for fast heat delivery. Install appropriate coil and place over or around ferrous metal. Ideal for loosening stubborn and seized fixings. Supplied with special dent induction block for panel expansion and induction pad for plastic trim/sticker removal. Induction element delivers high heat fast and effectively. Supplied in storage case.

Frequency:	50/60Hz
Power:	2000W
Supply:	230V
Nett Weight:	8.12kg

Contents:

Model No:	Description:
H VS2303	Ø20mm Direct Coil
I VS2304	Ø20mm Side Coil
J VS2305	Ø30mm Direct Coil
K VS2306	Ø30mm Side Coil
L VS2309	Ø55mm Pad Coil
M VS2310	Ø920mm Flex Coil
N VS2311	Induction Block

(W x D x H): 50 x 30 x 35mm



O 2300W Induction Heater

Rapid Heat

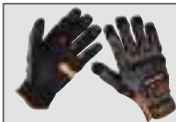
Model No. **VS250**

Mobile induction heater for fast heat delivery. Install appropriate coil and place over or around ferrous metal. Ideal for loosening stubborn and seized fixings. Supplied with special dent induction block for panel expansion and induction pad for plastic trim/sticker removal. Induction element delivers high heat rapidly and effectively. Supplied in storage case.

Frequency:	50Hz
Power:	2300W
Supply:	230V

Contents:

Model No:	Description:
P VS2303	Ø20mm Direct Coil
Q VS2305	Ø30mm Direct Coil
R VS2304	Ø20mm Side Coil
S VS2306	Ø30mm Side Coil
T VS2309	Ø55mm Pad Coil
U VS2310	920mm Flex Coil
V VS23111	Ø32mm x 45mm Induction Block



Mechanic's Gloves
For our full range of mechanic's gloves, see page 1247.



A 13 Blade Feeler Gauge - Metric
Model No. S0517

Blade dimensions 95 x 10mm.

Blade Sizes: 0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1mm



B 13 Blade Feeler Gauge - Imperial
Model No. S0518

Blade dimensions 100 x 10mm.

Blade Sizes: 0.002", 0.004", 0.006", 0.008", 0.010", 0.012", 0.016", 0.020", 0.024", 0.028", 0.032", 0.036", 0.040"



C 15 Blade Feeler Gauge - Metric
Model No. VS511

Blade dimensions 75 x 13mm.

Blade Sizes: 0.06, 0.07, 0.08, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.70mm



D 32 Blade Feeler Gauge - Dual Marked
Model No. S0514

Includes 0.010" (0.254mm) brass blade for non-magnetic applications. Blade dimensions 90 x 13mm.

Blade Sizes:

Imperial: 0.0015", 0.002", 0.0025", 0.003", 0.004", 0.005", 0.006", 0.007", 0.008", 0.009", 0.010", 0.011", 0.012", 0.013", 0.014", 0.015", 0.016", 0.017", 0.018", 0.019", 0.020", 0.021", 0.022", 0.023", 0.024", 0.025", 0.026", 0.028", 0.030", 0.032", 0.035" + 0.010" Brass

Metric: 0.038, 0.051, 0.063, 0.076, 0.102, 0.127, 0.152, 0.178, 0.203, 0.229, 0.254, 0.279, 0.305, 0.330, 0.356, 0.381, 0.406, 0.432, 0.457, 0.483, 0.508, 0.553, 0.559, 0.584, 0.610, 0.635, 0.660, 0.762, 0.771, 0.813, 0.889 + 0.254mm Brass



E 35 Blade Feeler Gauge - Dual Marked
Model No. VS512

Blade dimensions 75 x 13mm.

Blade Sizes:

Imperial: 0.0015", 0.002", 0.003", 0.004", 0.005", 0.006", 0.007", 0.008", 0.009", 0.010", 0.011", 0.012", 0.013", 0.014", 0.015", 0.016", 0.017", 0.018", 0.019", 0.020", 0.021", 0.022", 0.023", 0.024", 0.025", 0.026", 0.027", 0.028", 0.029", 0.030", 0.031", 0.032", 0.033", 0.034", 0.035"

Metric: 0.038, 0.051, 0.076, 0.102, 0.127, 0.152, 0.178, 0.203, 0.229, 0.254, 0.279, 0.305, 0.330, 0.356, 0.381, 0.406, 0.432, 0.457, 0.483, 0.508, 0.533, 0.559, 0.584, 0.610, 0.635, 0.660, 0.686, 0.711, 0.737, 0.762, 0.787, 0.813, 0.838, 0.864, 0.889mm



F 36 Blade Combination Steel/Brass
Feeler Gauge - Dual Marked
Model No. VS513

30 Steel blades and six brass blades for non-magnetic applications on electronic ignition systems. Blade dimensions 75 x 13mm.

Blade Sizes:

Imperial Steel: 0.002", 0.0025", 0.003", 0.004", 0.005", 0.006", 0.007", 0.008", 0.009", 0.010", 0.011", 0.012", 0.013", 0.014", 0.015", 0.016", 0.017", 0.018", 0.019", 0.020", 0.021", 0.022", 0.023", 0.024", 0.025", 0.026", 0.028", 0.030", 0.032", 0.035"

Imperial Brass: 0.006", 0.008", 0.010", 0.012", 0.014", 0.016"

Metric Steel: 0.051, 0.063, 0.076, 0.102, 0.127, 0.152, 0.178, 0.203, 0.229, 0.254, 0.279, 0.305, 0.330, 0.356, 0.381, 0.406, 0.432, 0.457, 0.483, 0.508, 0.533, 0.559, 0.584, 0.610, 0.635, 0.660, 0.711, 0.762, 0.813, 0.889mm

Metric Brass: 0.152, 0.203, 0.254, 0.305, 0.356, 0.406mm



G 12 Blade Offset Feeler Gauge - Dual Marked
Model No. S0516

Imperial graduated 12 blade feeler gauge. Dual marked in Imperial and Metric. Offset tips are essential for checking tolerances on OHC configurations and suitable for other applications where straight blades will not fit. Sizes 0.008" to 0.026" (0.203 to 0.660mm). Blade dimensions 95 x 13mm (45°-25mm offset).

Blade Sizes:

Imperial: 0.008", 0.010", 0.012", 0.013", 0.014", 0.015", 0.016", 0.018", 0.019", 0.020", 0.025", 0.026"

Metric: 0.203, 0.254, 0.305, 0.330, 0.356, 0.381, 0.406, 0.457, 0.483, 0.508, 0.635, 0.660mm



H 26 Blade Offset Feeler Gauge - Dual Marked
Model No. S0515

Offset tips are essential for checking tolerances on OHC configurations and suitable for other applications where straight blades will not fit. Blade dimensions 100 x 12.7mm (45°-25mm offset).

Blade Sizes:

Imperial: 0.005", 0.006", 0.007", 0.008", 0.009", 0.010", 0.011", 0.012", 0.013", 0.014", 0.015", 0.016", 0.017", 0.018", 0.019", 0.020", 0.021", 0.022", 0.023", 0.024", 0.025", 0.026", 0.027", 0.028", 0.029", 0.030"

Metric: 0.127, 0.152, 0.178, 0.203, 0.229, 0.254, 0.279, 0.305, 0.330, 0.356, 0.381, 0.406, 0.432, 0.457, 0.483, 0.508, 0.533, 0.559, 0.584, 0.610, 0.635, 0.660, 0.686, 0.711, 0.737, 0.762mm



I 26 Blade Offset Feeler Gauge - Dual Marked
Model No. VS515

Offset tips are essential for checking tolerances on OHC configurations and suitable for other applications where straight blades cannot reach. Blade dimensions 75 x 13mm (45°-15mm offset).

Blade Sizes:

Imperial: 0.005", 0.006", 0.007", 0.008", 0.009", 0.010", 0.011", 0.012", 0.013", 0.014", 0.015", 0.016", 0.017", 0.018", 0.019", 0.020", 0.021", 0.022", 0.023", 0.024", 0.025", 0.026", 0.027", 0.028", 0.029", 0.030"

Metric: 0.127, 0.152, 0.178, 0.203, 0.229, 0.254, 0.279, 0.305, 0.330, 0.356, 0.381, 0.406, 0.432, 0.457, 0.483, 0.508, 0.533, 0.559, 0.584, 0.610, 0.635, 0.660, 0.686, 0.711, 0.737, 0.762mm



A 25 Blade Extra-Long Feeler Gauge
Dual Marked
Model No. VS516

Blade dimensions 300 x 13mm.

Blade Sizes:

Imperial: 0.0015", 0.002", 0.003", 0.004", 0.005", 0.006", 0.007", 0.008", 0.009", 0.010", 0.011", 0.012", 0.013", 0.014", 0.015", 0.016", 0.017", 0.018", 0.019", 0.020", 0.021", 0.025", 0.027", 0.030", 0.040"

Metric: 0.038, 0.076, 0.102, 0.127, 0.152, 0.178, 0.203, 0.229, 0.254, 0.279, 0.305, 0.330, 0.356, 0.381, 0.406, 0.432, 0.457, 0.483, 0.508, 0.051, 0.533, 0.635, 0.686, 0.762, 1.02mm



E Spark Plug Feeler Gauge - Metric
Model No. VS518

Specially designed for gapping spark plugs and suitable for both traditional copper and precious metal plugs. Features an electrode adjuster, allowing the electrode to be adjusted without levering against the core, which can be easily damaged. Blade dimensions 75 x 13mm.

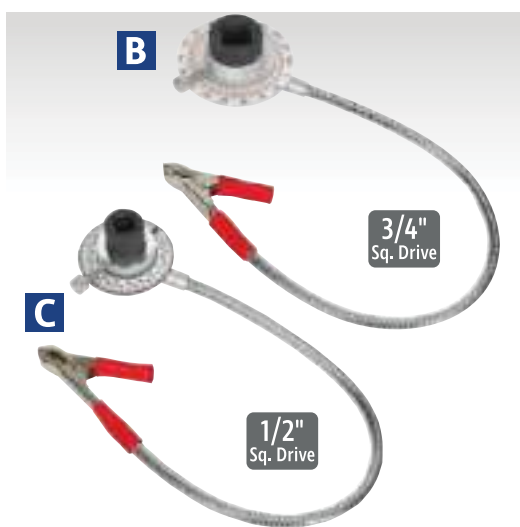
Blade Sizes: 0.5, 0.6, 0.7, 0.8, 0.9, 1, 1.1mm



J 2pc Decarbonising Brush Set
Model No. VS1801

Brassed and crimped steel brushes with flat and pointed fill. Suitable for decarbonising cylinder head ports and components.

Trim Length (Flat/Pointed): 25/25mm
Trim Diameter (Flat/Pointed): Ø15/12mm



B - C Clip-On Angular Torque Gauges
Model No. SEE BELOW

Steel dial and rotating index line allows operator to accurately tighten cylinder head bolts and other fixings to manufacturer's exact specifications. Long reach flexi-arm with clip end provides extra stability and precision.

Model No:	Drive:
B VS430	3/4"Sq
C VS431	1/2"Sq



F Ramp Type Spark Plug Gauge - Dual Marked
Model No. VS119

Mechanic's plug gap tool adjusts plug gap in graduated ramp sequence. Dual marked in Imperial from 0.020" to 0.100" and Metric from 0.6 to 2.4mm.



H - I Decarbonising Brushes
Model No. SEE BELOW

Flat trimmed brushes with brassed and crimped filaments. Ø6 x 26mm Shaft.

Model No:	Trim Length:	Trim Size:
H VS1802	20mm	Ø13mm
I VS1803	28mm	Ø25mm

K 10pc 1/2"Sq Drive Head Bolt Socket Bit Set
Model No. AK5538

Contents:
Length 60mm: M12 - Ribe, T70 - TRX-Star*
Length 97mm: M14 - Security Spline
Length 100mm: M9 - Ribe
Length 117mm: M12 - Ribe
Length 150mm: E12 - TRX-Star* Socket, T60H - Security TRX-Star*, M10 - Spline, 10mm - Hex, M10 - Ribe



D 1/2"Sq Drive Angular Torque Gauge
Model No. VS530

Designed to be used with any 1/2"Sq drive breaker bar. Tough composite dial and rotating index line allow operator to accurately tighten fixing to manufacturer's exact specification. Supplied with fully adjustable reaction arm. Essential measuring tool for the busy workshop.



G 20pc Cleaning & Decarbonising Brush Set
Model No. VS1800

Ideal for cleaning and decarbonising areas with limited access, especially injector apertures before refitting. Supplied in sizes from Ø9-19mm in brass, nylon and steel. Features quick release extension bar for increased reach.

Brush Type:	Brass, Nylon, Steel
Brush Fill/Overall:	50/100mm
Brush Sizes:	Ø9, 11, 13, 15, 17, 19mm
Extension Bar Length:	150mm
Quick Release Coupling Size:	Ø14mm





A 3pc Exhaust Pipe Expander Set
Model No. VS1668

Ideal for fitting aftermarket components to standard exhausts. Used to expand a length of pipe in equal proportions so the pipe is the same diameter and not tapered. Ensures a perfect fit with no leaks and also removes dents and clamp marks.

Capacity:	Small; Ø29-44mm, Medium; Ø40-57mm, Large; Ø54-81mm
Drive:	Small; 17mm Hex, Medium; 17mm Hex, Large; 19mm Hex



B Ratcheting Exhaust Pipe Cutter
Model No. VS16371

Universal application pipe cutter designed for where access is restricted. Ratchet mechanism allows cutting without having to rotate the tool completely around the tubing. Suitable for the toughest materials including stainless steel exhaust pipes.

Maximum Thickness:	3mm
Cutting Capacity:	Ø29-67mm
Replacement Cutting Wheel:	VS16371B



C Exhaust Pipe Cutter Pliers
Model No. VS16372

Suitable for cutting exhaust pipes and steel or copper tubing up to Ø83mm. Plier design handles allow for even cutting pressure and enables access where space is restricted. 90° Handle movement produces a 360° cut.

Maximum Thickness:	2.5mm
Cutting Capacity:	Ø19-83mm



D Exhaust Pipe Cutter
Model No. AK6838

Suitable for cutting thin-wall tubing up to 2.5mm thick. Designed to enable access where space is restricted. Ideal for cutting stainless steel exhaust pipes.

Maximum Thickness:	2.5mm
Cutting Capacity:	Ø75mm
Replacement Chain:	398/CHN182



E Ø75mm Air Cut-Off Tool
Model No. SA25

Suitable for cutting car panel material and exhaust brackets. Fitted with metal safety guard and throttle safety device to prevent accidental operation. Cutting disc not included, order Model No. PTC/3C.



F - I Exhaust Mounting Rubbers (Packs of 2)
Model No. SEE BELOW

Packs of two rubber exhaust mounts. Selection of common sizes to fit many models of vehicle.

Model No:	Dimensions (W x D x H):	Mounting Holes:	Distance Between Mounts:
F EX01	70 x 45 x 37mm	Ø9mm, 18 x 10mm Oval	33mm
G EX02	60 x 41 x 20mm	Ø10.5mm	24mm
H EX03	62 x 54 x 13.5mm	3.5mm High 180° Slots	11mm
I EX04	59 x 59 x 13.5mm	Ø30mm	-



J Kevlar® Hot Sleeves
Model No. SEE BELOW

Manufactured to CAT 2 BS EN 388 and BS EN 407 from 100% DuPont Kevlar®. Designed for use in engine bays to prevent cuts to forearms and burns from exhausts and other hot components. Thumb slot design ensures sleeve will stay in position.

Model No:	Length:
SSP36	355mm
SSP37	460mm

A



A Catalytic Converter Back Pressure Test Kit Model No. VSE953

Used to establish the working condition of the catalytic converter and silencer by measuring the relative back pressure of the system. Simply connect into the exhaust system using either of the two oxygen sensor dummy adaptors supplied in the kit. Gauge features a colour-coded scale for easy diagnosis and reads both pressure and vacuum so can be used on other areas of the vehicle, allowing testing of low pressure fuel systems or engine vacuum. Supplied with gauge hanging chain to allow hands-free operation.

Contents: Oxygen Sensor Adaptors; M12 x 1.25, M18 x 1.5mm, Small & Large Brass Cone Adaptors, Plastic Double End Cone, Plastic 'T' Piece, Gauge Hanging Chain
Gauge Scale:
Pressure: 0-10psi
Vacuum: 0-60cmHg

D



VAG

D Exhaust Spring Clamp Removal Tool - VAG Model No. VS1638

Robust steel tool for the safe removal and installation of the spring clamps used to attach exhaust system to manifold on VAG vehicles. Use with 17mm spanner.

Drive: 17mm Hex
Applications: Audi, Seat, Skoda, VW

G



G Exhaust & Hose Clamp Pliers Model No. VS1666

Opens exhaust hose clamps quickly and easily. Ideal for Citroen, Peugeot and Renault exhaust clamps. Also suitable for prizing open many types of clamp or clip secured with nut and bolt. Comfort grip handles with self-locking mechanism aid working on spring clamps.

Length: 300mm

B



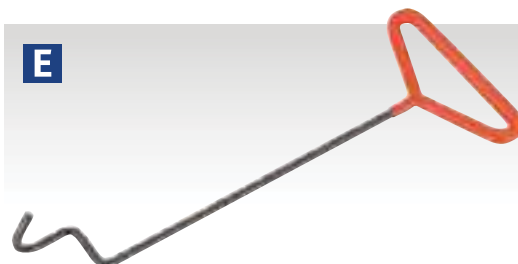
3/8" & 1/2"
Sq. Drive

B 5pc Oxygen Sensor & Thread Chaser Set Model No. SX0320

Suitable for oxygen sensors found on most modern vehicles. Cut-out and slots enable sockets to be fitted over wiring harness. Includes two chasers for cleaning and repairing damaged threads. Supplied in storage case

Sockets: 3/8"Sq Drive; Straight - 80mm, Deep - 22mm, Offset - 31mm, High - 22mm, 1/2"Sq Drive; Offset - 50mm, High - 22mm
Thread Chasers: M12 x 1.25mm, M18 x 1.5mm

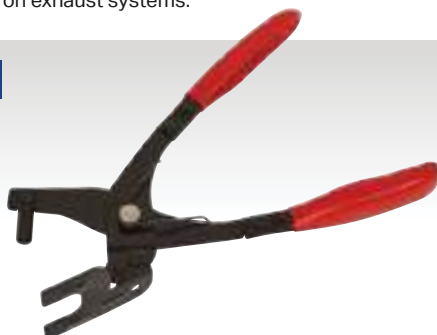
E



E Exhaust Doughnut Puller Model No. VS163

Steel construction with dipped vinyl handle. Enables fast removal and installation of rubber anti-vibration mountings found on exhaust systems.

H



H Exhaust Hanger Removal Pliers Model No. VS1631

Enables fast one-handed removal of exhaust brackets from rubber hangers. Suitable for a wide range of cars and light commercial vehicles.

Length: 285mm



MG803L see page 1247 for full details.

C

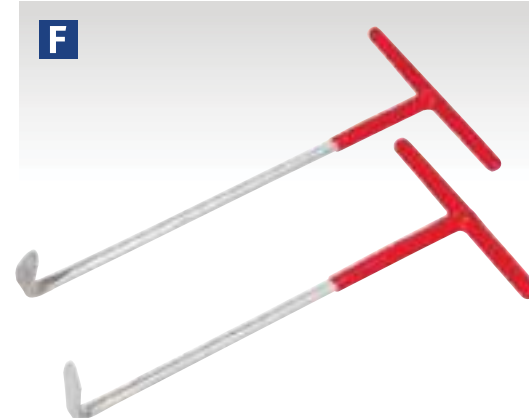


C Thread Repair Kit Oxygen Sensor Model No. VS5281

Time and money saving kit for replacing damaged oxygen sensor threads with a new threaded insert. Kit includes installation tool, reamer, two taps and five inserts in storage case.

Insert Thread Size: M18 x 1.5mm
Tap Sizes: M18 x 1.5, M20 x 1.5mm
Replacement Inserts: (Pack of 5) VS5281R

F



F 2pc Exhaust Puller Tool Set Model No. VS1641

Invaluable when installing exhaust systems. Two T-handled tools allow easy fitting of exhaust mounts. 90° and 120° Hooks to suit block and ring mounts respectively.

Contents: 220mm 90° Angled Hook Puller, 203mm, 120° Angled Hook Puller

I



I 150ml Exhaust Assembly Paste Model No. SCS200

For ease of assembly. Creates gas tight joints. Suitable for use with AK4802 Caulking Gun (see page 1305).

Size: 150ml Cartridge

CC230V - HHO ENGINE CARBON CLEANER

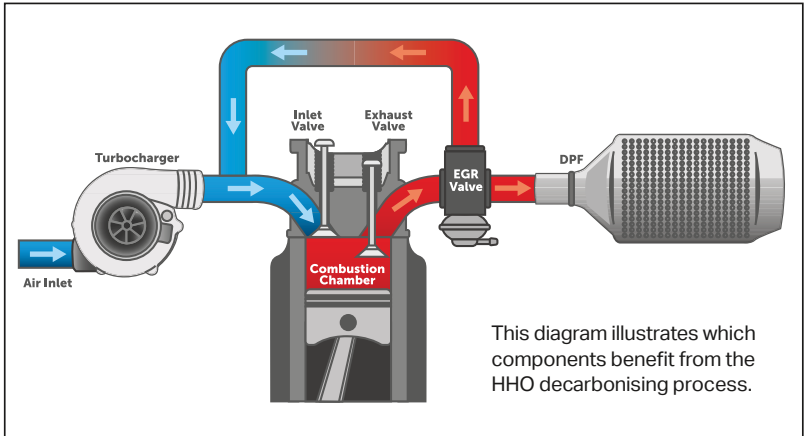
Carbon build-up is becoming a huge issue, not only in diesel engines but also in modern petrol engines. It can make the engine work much harder, increasing chance of engine faults or even failure, increased emissions and even fuel consumption. Oxy hydrogen is created by the electrolysis of water which also has potassium hydroxide added to catalyse this process. When fed into the air inlet of a running vehicle, it will increase the temperature within the combustion chamber and remove excess carbon build-up, giving you a thorough internal clean. Immediate results are noticeable and the feedback we have seen is overwhelming. This procedure doesn't even take a technician away from another job as you can leave it in a well ventilated area working its magic. Garages are already starting to invest in this technology to increase revenue of up to £99.00+VAT per job, which can take anywhere up to an hour, depending on the severity and engine size. With no expensive additives needed, the running costs are practically nil, giving the potential to earn 100% profit on every job!



A 230V HHO Engine Carbon Cleaner
Model No. CC230V

The Sealey CC230V uses cutting edge HHO engine cleaning technology. Each unit uses electrolysis to split water molecules into the composite elements of oxygen and hydrogen to produce oxyhydrogen or HHO gas. Simple-to-use machine feeds HHO into the engine through the vehicle air inlet breaking down any carbon build-up on its way. Carbon builds up layer-on-layer when fuel combusts in the engine cylinders which can affect the smooth running of any engine. Removing carbon build-up from the engine can improve performance, raise mpg, reduce emissions and oil consumption. The CC230V runs on tap water with no expensive refills making the process a great revenue boost for any workshop. Fitted with CAMS (Charge Activated Machine Shutdown) designed to safely cut-out if the engine stops running during treatment. Also meaning the unit can be left to run without supervision allowing the user to continue with other work.

Cells:	3 x 3 Raid Technology (Generators)
Dimensions (W x L x H):	350 x 650 x 860mm
Flow Rate:	600L/hr
Power:	1.4kW



DPF1 – DPF ULTRA CLEANING STATION

Blocked DPF's, have been a massive issue for many years. Blockages are mainly due to the vehicle not meeting the regeneration process criteria, predominantly caused by short journeys etc. Buying a new DPF can of course be very costly and sending the old one away for cleaning can also be a time consuming process. With this machine, the garage is able to offer a professional, fast turnaround, vehicle ultra-cleaning solution at a fraction of the cost. Each treatment will require a DPF1KIT (2-Stage additives). Stage 1 is an ultra-cleaning chemical which is poured into the DPF and left to soak for up to 1 hour and has been specially designed to lift any impurities. This is then emptied and the DPF is strapped down to the cleaning bay and a mixture of high air pressure and water is forced through in stages over a period of time until the water coming out is crystal clear! After this process is complete, it is time for Stage 2, which is a protective chemical poured through to coat the inside of the DPF, assisting in preventing further soot build-up, causing a blockage. This can then be put straight back onto the vehicle again giving the garage a great new revenue stream and further satisfied customers. Garages are already reaping the benefits of these cleaning stations, charging anywhere from £250+VAT upwards.

A

NEW



A DPF Ultra Cleaning Station
Model No. DPF1

Provides an off-vehicle, same day workshop cleaning solution. The machine uses a mixture of high pressure air, chemicals and water. This cleaning station along with the Sealey recommended chemicals offers a fast and cost effective way to completely clean and protect any DPF. Great revenue boost for any workshop. Each treatment will require a DPF Ultra Cleaning Kit (Model No. DPF1KIT) which includes 1 x Ultra Clean and 1 x Ultra Protect Solution. The ultra cleaning chemical is a unique solution specially formulated to safely lift impurities from the DPF. The protect chemical features the latest nano-catalyst technology to keep your DPF cleaner for longer. Also features an automatic service function allowing the user to continue with other work.

Cleaning Agent:	Chemical/Water/Air
Dimensions (W x L x H):	400 x 900 x 1120mm

B

NEW



B DPF Ultra Cleaning Kit
Model No. DPF1KIT

2-Stage ultra treatment kit includes a powerful DPF cleaner and a nano-catalyst protect solution. To be used with DPF Ultra Cleaning Station Model No. DPF1.

A DPF1 Contents



Contents Includes: Water Pressure Container, Waste Bucket, DPF Adaptor Plates, Blanking Cap, Ratchet Tie Downs, Extension Hose, Waste Hose, Magnetic Parts Tray.





A Exhaust Fume Extractor with 6m Ducting
Model No. EFS/93

Suitable for both large and small garages and workshops. Excellent as a back-up machine for garages with purpose-built fume extraction units. Suitable for cars and small commercials up to 10tonne GVW. Fitted with exhaust pipe cone that includes a port to allow use with gas analyser probes. Supplied with 6m flexible ducting.

Motor:	550W - 230V
Airflow:	560m³/hr
Minimum Height:	120mm
Maximum Height:	750mm
Duct Length:	6m



B Exhaust Fume Extractor with 3m Ducting
Model No. EFS07

Features soft rubber cylindrical cone to suit most exhausts. Adjustable height for use on small cars or commercial vehicles. Air inlet valve creates vortex within extractor to ensure all fumes are dispersed (requires air supply). 1.2m Body length with additional 3m flexible ducting. Mounted vertically on trolley with integral duct compartment for easy manoeuvrability and compact storage.

Recommended Air Pressure:	90psi
Air Consumption:	16cfm
Minimum Height:	185mm
Maximum Height:	550mm
Duct Length:	3m
Overall Length:	4.2m



C Exhaust Adaptor for Twin Pipes
Model No. EFS07DE

Features soft rubber cylindrical exhaust pipe cones to suit most vehicles. Allows exhaust fume extractor to be used on twin exhaust vehicles. Suitable for use with Model No. EFS07 Exhaust Fume Extractor.

Extractor Connector:	Ø65-90mm Male Taper
Duct Length:	1.4m



D - E 370W Exhaust Fume Extraction Systems
Model No. SEE RIGHT

Wall mounting electric fans fitted with heat resistant ducting and exhaust pipe cones with exhaust gas analyser port. Ideal for bikes, cars and car derived vans. Requires installation onto workshop wall and ducting to expel exhaust gases. Does not include electrical switch gear. Ideal for smaller garages and workshops where space is limited. Available in single or twin hose configurations.

	D	E
Model No:	EFS101	EFS102
Type:	Single Duct	Twin Duct
Motor:	370W - 230V	370W - 230V
Duct Size:	Ø75mm x 5m	Ø75mm x 5m



F Exhaust Support Stand
750kg Capacity
Model No. ES750

Screw adjustment with easy-to-use spinner nut and ball bearing thrust race for smooth operation. Removable base for easier storage. Adjustable over 668mm.

Capacity:	750kg
Minimum Height:	1364mm
Maximum Height:	2032mm

IMPORTANT INFORMATION
It is advised not to use an exhaust fume extractor when conducting a force regeneration on a vehicle fitted with a DPF (Diesel Particulate Filter) because of high temperatures from the exhaust. These high temperatures may melt the rubber exhaust cones or pipes on the fume extractor. Regeneration should be conducted outside in a well ventilated area away from buildings or other vehicles.



A 5L Measuring Jug
Model No. VS562

Transparent measuring jug with wide base for extra stability.

Capacity: 5L



B 5L Measuring Jug with Flexible Spout
Model No. VS563

Transparent measuring jug with removable flexible spout. Wide base for extra stability.

Capacity: 5L



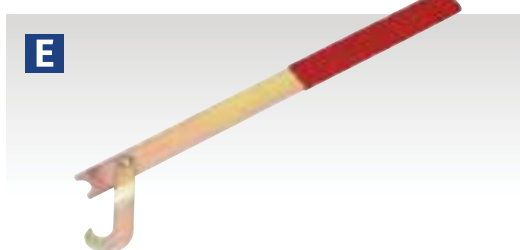
C Automotive Coolant Filler Set
Model No. VS0043

Multipurpose coolant filling system, supplied with six reservoir adaptors, to fit popular sizes of reservoir. Built-in shut-off valve and cleverly designed flow pipe system helps prevent air locks.



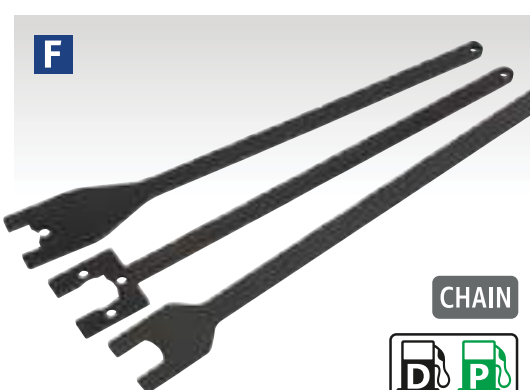
D Tractor Funnel with Water Separating Filter
Model No. OIL/TF

Heavy-duty funnel manufactured from high density polyethylene. 255 x 165mm Aperture to accommodate up-ended containers. Supplied with water separating filter. Tapered spout with venting ribs.



E Viscous Fan Holding Tool
Model No. VS095

Prevents fan from rotating, without risk of damaging fan (or fingers), when removing retaining nut. Vinyl dipped handle.



F Viscous Fan Spanner Set
Land Rover/Range Rover - Chain Drive
Model No. VSE3042

Essential tools required to remove the viscous fan from the water pump. Slim design makes access possible in the restricted access found on some Land Rover and Range Rover vehicles. Used in pairs according to vehicle application.

OEM Tools: 303-1142, 303-1143, 303-1167

Applications:

Land Rover: Discovery 3 (04-09), Discovery 4 (09-13)
Range Rover: Range Rover (05-16), Range Rover Sport (05-16)

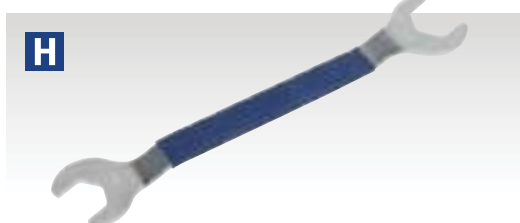
Engine Codes:

2.7 TDV6: 276DT
4.2: 428PS
4.4: 448PN



G 17L Antifreeze/Fluid Drain Pan
Model No. DRP04

Capacity: 17L
Diameter: Ø460mm
Height: 150mm



H 32 & 36mm Viscous Fan Hub Tool
Model No. VS0923

Combination tool suitable for removing thermo-viscous fan hubs as fitted to BMW, Ford and Vauxhall/Opel vehicles.

Sizes: 32, 36mm



I Coolant Pump Thermostat Key - VAG
Model No. VS0924

Simple-to-use tool allows easy removal and installation of thermostat without causing any unnecessary damage. For use on Audi A3 (13on), VW Golf (13on), Skoda Octavia (13on), Seat Leon (13on). Applicable Engines: 1.0 TFSi 3-cyl, 1.2 TSi, 1.4 TFSi, 1.4 FSi, 1.4 TDiCR 3-cyl. OEM Tool: T10508.



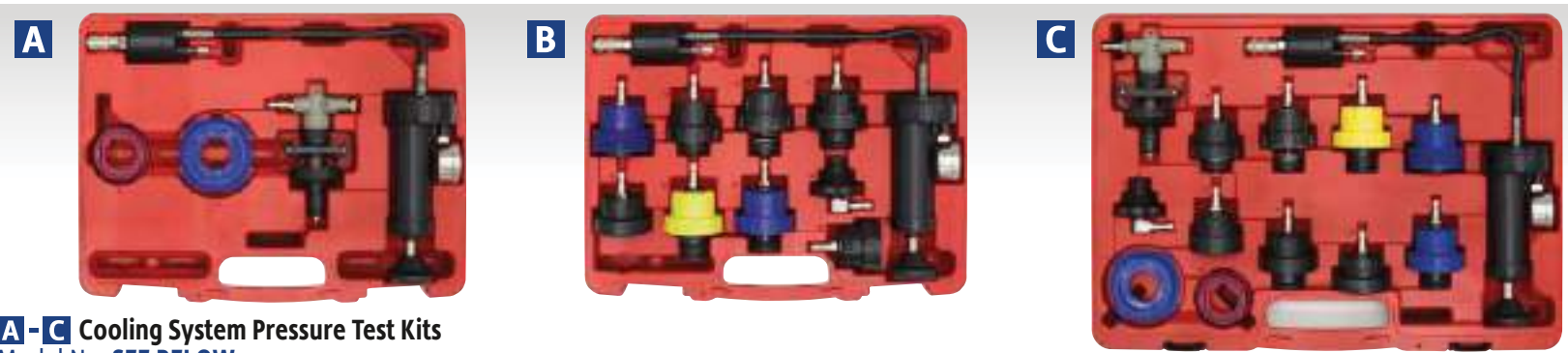
J Radiator Fin Straightener
Model No. VS0472

Specially designed for straightening the delicate fins found on automotive radiators, air conditioning condensers, oil coolers and intercooler grills ensuring optimum performance. Allows removal of any small debris build-up that can gather between the fins. Six different comb sizes. Also suitable for domestic and industrial air conditioning and heat exchange applications.



K Heater Hose Disconnection Tool - Ford
Model No. VS0010

Heater hose disconnection tool for Ford vehicles. Designed to make the job of disconnecting the heater hose a lot easier and less time consuming. Applications: Ford Focus 2.0 (2012-2016), Escape/Kuga 2.0 EcoBoost (2013-2016).



A - C Cooling System Pressure Test Kits
Model No. [SEE BELOW](#)

A range of three cooling system pressure test kits, covering the latest vehicles. These sets are a combination of:

- Universal inflatable bladder covering 90% of cars and light commercials straight out of the box (Model No's VS0012 & VS0014).
- Vehicle specific cap adaptors covering the latest Alfa Romeo, Audi, BMW, Citroen, Dacia, Fiat, Ford, Honda, Hyundai, Jaguar, Kia, Land Rover, Lexus, Mazda, Mercedes, Mini, Mitsubishi, Nissan, Peugeot, Porsche, Renault, Seat, Skoda, Suzuki, Toyota, Vauxhall/Opel, Volvo, VW vehicles (Model No's VS0013 & VS0014). See table below for specific applications.

Each kit features quick-release couplings, easy-to-read pressure gauge and release valve.

	A	B	C
Model No:	VS0012	VS0013	VS0014
Kit Size:	4pc	10pc	13pc

Inflatable Bladder from VS0012 & VS0014



D 20pc Cooling System Pressure Tester Kit
Model No. [VS001](#)

Traditional style cooling system pressure testing kit with a selection of adaptors to fit popular European and Japanese vehicles. Also includes non-specific adaptors for other makes.



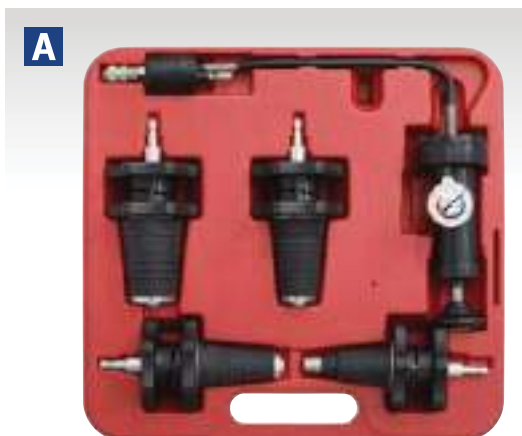
E 25pc Cooling System Pressure Test Kit
Model No. [VS0011](#)

Traditional style cooling system pressure testing kit with an updated selection of adaptors to fit popular European and Japanese vehicles. Also includes non-specific adaptors for other makes.

A - E Adaptor Application List for VS001, VS0011, VS0012, VS0013 & VS0014

Contents	VS001	VS0011	VS0012	VS0013	VS0014	Newer/ Older Vehicles	Applications
VS001.V3-01	✓	✓	✗	✗	✗	Old	Mercedes
VS001.V3-02	✓	✓	✗	✓	✓	New	Audi, Seat, Skoda, VW
VS001.V3-03	✓	✓	✗	✗	✗	Old	Audi, Ford, Seat, Skoda, Vauxhall/Opel, VW
VS001.V3-04	✓	✓	✗	✗	✗	Old	Alfa, Audi, BMW, Seat, VW
VS001.V3-05	✓	✓	✗	✗	✗	Old	BMW, Rover
VS001.V3-06	✓	✓	✗	✗	✗	Old	Fiat, Peugeot, Renault, Rover, Vauxhall/Opel, Volvo
VS001.V3-07	✓	✓	✗	✗	✗	Old	Audi, Chrysler, Fiat, Honda, Lancia, Peugeot, Renault, Rover, Vauxhall/Opel, Volvo, VW
VS001.V3-08	✓	✓	✗	✗	✗	Old	Chrysler, Citroen, Mercedes, Mitsubishi, Nissan, Suzuki, Toyota
VS001.V3-09	✓	✓	✗	✗	✗	Old	Mercedes
VS001.V3-10	✓	✓	✗	✗	✗	Old	Chrysler, Citroen, Mercedes, Suzuki
VS001.V3-11	✓	✓	✗	✗	✗	Old	Nissan, Suzuki, Toyota
VS001.V3-12	✓	✓	✗	✗	✗	Old	Suzuki
VS001.V3-13	✓	✓	✗	✗	✗	Old	Kia

Contents	VS001	VS0011	VS0012	VS0013	VS0014	Newer/ Older Vehicles	Applications
VS001.V3-14	✓	✓	✗	✗	✗	Old	Mitsubishi, Nissan, Suzuki, Toyota
VS001.V3-15	✓	✓	✗	✓	✓	New	Honda, Kia, Mazda, Mitsubishi, Nissan, Suzuki, Toyota
VS001.V3-16	✓	✓	✗	✓	✓	New	Toyota
VS001.V3-17	✓	✓	✗	✗	✗	Old	Ford
VS001.V3-18	✓	✓	✗	✗	✗	Old	Ford
VS001.V3-19	✓	✓	✗	✗	✗	Old	Mercedes
VS001.V3-20	✓	✓	✗	✗	✗	Old	Ford
VS0011.21	✗	✓	✗	✓	✓	New	Vauxhall/Opel
VS0011.22	✗	✓	✗	✓	✓	New	BMW
VS0011.23	✗	✓	✗	✓	✓	New	Fiat
VS0011.24	✗	✓	✗	✓	✓	New	Ford, Jaguar/Daimler, Land Rover, Volvo
VS0011.25	✗	✓	✗	✓	✓	New	Lexus, Toyota
VS0014.01	✗	✗	✗	✓	✓	New	Alfa, BMW, Citroen, Dacia, Ford, Mini, Nissan, Peugeot, Porsche, Renault, Toyota
VS0014.04	✗	✗	✓	✗	✓	N/A	Inflatable bladder (fits various vehicles)



A 5pc Cooling System Pressure Test Kit Model No. VS0033

Capless tester uses cone adaptor system to seal and pressurise the cooling system. Adaptors may be used to replace both screw and bayonet type cap fittings. Kit includes pump with gauge and four system adaptors for use on a wide range of vehicle applications.

Cone Adaptor Sizes: 17-24, 28-31.5, 37-39.5, 47-48.5mm



WARNING

HOT LIQUID UNDER PRESSURE

Working on or around pressurised cooling systems can be highly dangerous. Wear eye or face protection as well as gloves or gauntlets



B 16pc Cooling System Pressure Test Kit Model No. VS006

Heavy-duty pressure test kit. Aluminium radiator header tank caps are colour-coded for ease of use and have quick release fittings. Suitable for a wide range of vehicle applications. Set supplied with thermometer and packed in storage case.

Applications: Alfa Romeo, Audi, BMW, Citroen, Fiat, Ford, Isuzu, Jaguar, Jeep, Lexus, Mazda, Mercedes, Mitsubishi, Nissan, Peugeot, Renault, Rover, Saab, Subaru, Suzuki, Toyota, Vauxhall/Opel, Volvo, VW



C Coolant Pressure Test Cap - Vauxhall/Opel Model No. VS006V

Coolant pressure test cap. Use with Model No's VS001, VS0011, VS0012, VS0013, VS0014, VS006, VS0061 or VS0033 test kits.

Applications: Vauxhall/Opel (Updated Type)



D Coolant Pressure Test Cap - Ford/Volvo Model No. VS006F

Coolant pressure test cap. Use with Model No's VS001, VS0011, VS0012, VS0013, VS0014, VS006, VS0061 or VS0033 test kits.

Applications: Ford (Updated Type), Volvo; V70, XC70

VS001, VS0011, VS0012, VS0013, VS0014, VS0033, VS006, VS0061, VS006V and VS006F share the same connector, so parts are interchangeable.



E Cooling System & Cap Testing Kit Model No. VS0031

Capless cooling system tester uses an inflatable bladder to seal the pressure head to the radiator or header tank. Bladder system can be used on both screw and bayonet fittings and seals 90% of cars and light commercial vehicles straight out of the box. Also suitable for motorcycles, off-road and marine applications. Supplied with set of double end adaptors enabling testing of cooling system pressure caps. Supplied in storage case.

Pressure System Applications: Universal
Pressure Cap Test Applications: Standard Bayonet (Ford, GM N Body), External Thread (Jeep, Saab, VW/Audi), Internal Thread (Small Japanese Deep, VW/Audi), Internal Thread (Small Japanese Shallow, Late Model VW/Audi), External Thread (Late Model BMW, Land Rover), External Thread (Late Model Mercedes)



Kit includes cap test adaptors - simply insert bladder into adaptor and inflate.



F Cooling System Flush Gun Model No. VS0044

Enables thorough flushing of debris and contaminants from cooling system during repair and maintenance. Powered by workshop air, which creates a vacuum to draw water from a container. Can also be used with mains pressure tap water.

Adaptor Sizes: Ø19, 29, 32, 37, 40mm
Air Inlet Size: 1/4" BSP
Water Inlet Size: Ø15.5mm
Operating Pressure: 90psi



A Combustion Leak Detector
Model No. VS0062

Diagnose blown gaskets, cracked blocks and cylinder heads on both petrol and diesel vehicles. Checks for CO₂ in cooling system and indicates its presence by test fluid colour change. Use with cone adaptor or in conjunction with radiator caps from Model No's VS001, VS0011, VS0013, VS0014, VS0033 and VS006. For Test Fluid Refill order Model No. VS0061F.

Fluid Refill: VS0061F



D 250ml Combustion Leak Detector Fluid
Model No. VS0061F

Suitable for use with Model No's VS0061 and VS0062 Combustion Leak Detectors and other leading brands of detector. Fluid changes colour on detection of CO₂ gas.



E Ø22mm x 3.14m Syphon Pump
Model No. VS565

Long reach syphon for efficient transfer of fluids. Suitable for low viscosity oils and non-aggressive chemicals. Ø22mm Hose for increased flow rate.

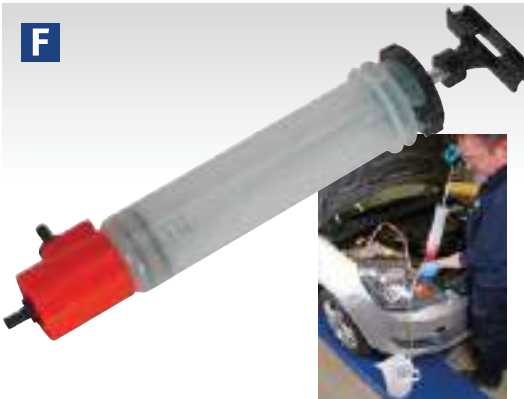
Length: 3.14m



B Combustion Leak Detector
Model No. VS0061

Diagnose blown gaskets, cracked blocks and cylinder heads on both petrol and diesel vehicles. Checks for CO₂ in cooling system and indicates its presence by test fluid colour change. Use with cone adaptor or in conjunction with radiator caps from Model No's VS001, VS0011, VS0013, VS0014, VS0033 and VS006. For Test Fluid Refill order Model No. VS0061F.

Fluid Refill: VS0061F



F 550ml Fluid Transfer/Inspection Syringe
Model No. VS558

Multipurpose syringes with Viton® seals, ideal for the transfer of oils/fluids to and from vehicle components such as gearboxes and differentials. Translucent body allows easy inspection of contents. Dual feature allows fluid to be extracted on pull stroke and expelled on push stroke, for fluent transfer of fluids from one receptacle to another.

Bore: 550ml



C Cooling System Filler
Model No. VS0041

Eliminates the introduction of bubbles and air-locks into the cooling system and dramatically reduces system filling time. No more time-consuming system bleeding. Reduces fluid waste and messy spills. Automatically conducts system leak test. Low profile design broadens application range especially for use on MPVs where lower windscreen lip might obstruct other tools. Simple operation requires workshop air supply and does not require fiddly interchange of vacuum and fluid hoses - as found on other similar tools. Can be used in conjunction with Model No's VS001, VS0011, VS0033, VS006, VS006F, VS006V, VS0013 and VS0014 cooling system pressure caps as an alternative way of connecting to the coolant reservoir. Supplied with 1.3m fluid hose.

Air Pressure:	80-100psi
Air Consumption:	12cfm
Fluid Hose Length:	1.3m
Air Inlet Size:	1/4" BSP



G Cooling System Vacuum Purge & Refill Kit
Model No. VS0042

Dramatically reduces cooling system refill time, without mess and without introducing air-locks. No more time consuming cooling system bleeding and no more messy spills to clean up. Simply plug into the workshop air line, attach to the cooling system header tank and create a vacuum. Complete the process by attaching the filler hose and opening the valve allowing your premixed coolant to flow into the system. Supplied with three adaptors and storage case.

Air Pressure:	90psi
Air Consumption:	12cfm
Fluid Hose Length:	900mm
Air Inlet Size:	1/4" BSP



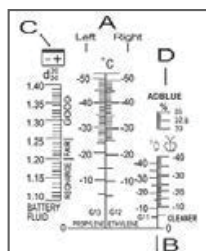
Tests:

Battery Fluid

Antifreeze

Screenwash

AdBlue®



A Refractometer Antifreeze/Battery Fluid/Screenwash/AdBlue®
Model No. **VS0052**

Accurately measures the strength of battery fluid, screenwash, antifreeze and AdBlue® by measuring the refractive index of light passing through the mixture. Suitable for synthetic antifreeze mixtures including long life OAT (Organic Acid Technology), G13 and aqueous/urea content of AdBlue®. Temperature corrected prism ensures accuracy. Eyepiece with adjustable focus. Simple calibration check using distilled water. Supplied with pipette and storage case.

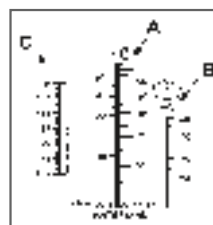


Tests:

Battery Fluid

Antifreeze

Screenwash



B Refractometer Antifreeze/Battery Fluid/Screenwash
Model No. **VS005**

Accurately measures the strength of battery fluid, screenwash and antifreeze by measuring the refractive index of light passing through the mixture. Suitable for synthetic antifreeze mixtures including long life OAT (Organic Acid Technology) and G13. Temperature corrected prism ensures accuracy. Eyepiece with adjustable focus. Simple calibration check using distilled water. Supplied with pipette and storage case.



D



C-D Twin-Rotor Antifreeze Testers
Model No. **SEE BELOW**

Tests antifreeze mixtures. Units feature a temperature compensation rotor that automatically adjusts the reading regardless of the coolant temperature. Freeze protection level is indicated on the scale in degrees Celsius.

Model No:	Type:
C VS4120	Ethylene Glycol
D VS4121	Propylene Glycol



E Ethylene Glycol Antifreeze Tester Disc Type
Model No. **AK4120**

Checks condition of coolant antifreeze, hot or cold. Freeze protection level is indicated by the number of the six large coloured discs which float in the sample. Easy-to-read temperature table on the virtually unbreakable plastic body.



F Ethylene Glycol Antifreeze Tester Ball Type
Model No. **AK4123**

Convenient, pocket-sized tester for ethylene glycol antifreeze mixtures. Freeze protection level is indicated by the number of coloured balls which float in the sample. Easy-to-read temperature table on the body.



G Ethylene Glycol Antifreeze Tester Tube Type
Model No. **AK413**

Tests ethylene glycol strength in radiator or header tank. Tube construction with thermometer for temperature calibration.



H Ethylene Glycol Antifreeze Tester Dial Type
Model No. **AK409**

Tests ethylene glycol strength and includes temperature adjustment scale for accurate interpretation of mixture strength. Composite body and rubber bulb for workshop durability.



I AdBlue® Tester Disc Type
Model No. **AK4125**

Checks condition of AdBlue®. Condition is indicated by the number of discs floating in the sample. Easy-to-read test procedure on robust plastic body.

AdBlue®



J Propylene Glycol Antifreeze Tester Disc Type
Model No. **AK4122**

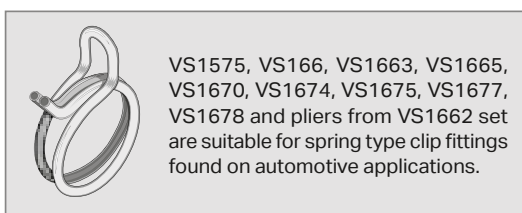
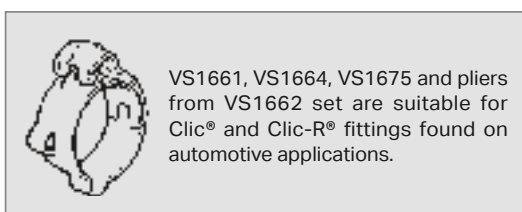
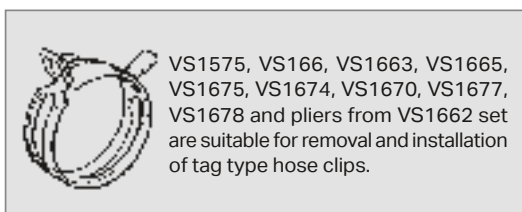
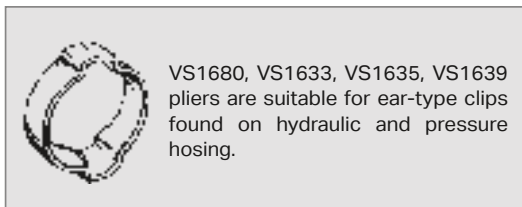
Tests modern propylene glycol coolant antifreeze, hot or cold. Protection level is indicated by the number of the five large coloured discs which float in the sample. Easy-to-read temperature table on the virtually unbreakable plastic body.

**A Spring Hose Clip Tensioner Tool****Model No. VS1575**

Locks in place for safe clip removal/refitting. Ideal for use in confined areas. Single-handed use. Range 5-55mm.

E Remote Action Hose Clip Tool**Model No. VS1663**

Long reach tool designed to get to awkwardly positioned tag type hose clips. Flexible cable and compact head help operation in confined spaces. Features ratchet action and vinyl dipped handles for comfort and close control.

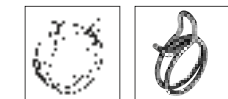
Length: 630mm**B - C T-Handle Vehicle Service Screwdrivers****Model No. SEE BELOW**

Especially designed cross head screwdrivers for loosening and tightening the ventilating (locking) screw on the radiator without the risk of damage on some VAG vehicles. Also suitable for various other vehicle service jobs such as battery screw plugs. Special length allows application in areas with restricted access.

Model No:	Size:
B VS0951	1.3mm
C VS0952	1.8mm

F Heavy-Duty Remote Action Hose Clip Tool**Model No. VS1670**

Reinforced long reach tool designed to get to awkwardly positioned tag type hose clips. Flexible cable and compact head help operation in confined spaces. Features ratchet action for close control.

Length: 500mm**G Interchangeable Remote Action Hose Clip Pliers****Model No. VS1675**

Long reach tool designed for awkwardly positioned tag-type hose clips. Flexible cable and compact head help operation in confined spaces. Three interchangeable heads, one cable for standard hose clamp, 670mm long and 3-52mm opening, one cable for Clic-R® Type clamp 635mm long and 0-24mm opening, one cable for dual-sided clamp for spring type and truck hose clamp, 670mm long and 0-75mm opening.

Length: 670mm**D Hose Clamp Removal Tool****Model No. VS1676**

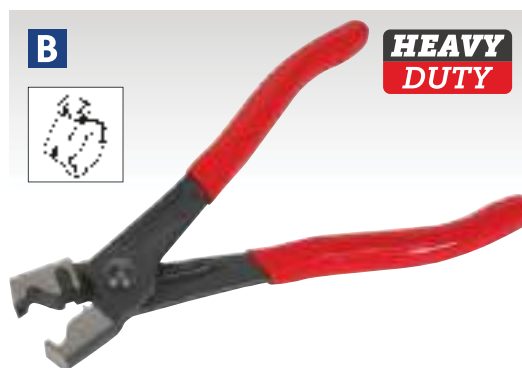
For releasing HENN clamps used on coolant and turbo charger hoses. Applications: BMW, Citroen, Fiat, Ford, Kia, Lexus, Mazda, Mercedes, Nissan, Porsche, Peugeot, VAG, Vauxhall/Opel and Volvo.





A **NEW**
Hose Removal Pliers
Model No. VS1655

Easily disconnects hoses by firmly gripping the lines/tubes. Especially suitable for hoses connected to lines/tubes with a smooth surface where a pushing force is not possible. Pointed jaw tip allows access in confined spaces. Locking design enhances secure gripping and allows single-handed operation. Suitable for 3/16"(5mm), 1/4"(6mm), and 3/8"(10mm) lines and tubes.



B **HEAVY DUTY**
Heavy-Duty Hose Clip Pliers
Clic® Compatible
Model No. VS1661

Heavy-duty spring loaded pliers for fitting and removing Clic® and Clic-R® hose clips. Special jaws allow the change from 'fit' to 'remove' (and back again) simply by turning the pliers over in your hand. PVC dipped handles for improved grip and comfort.

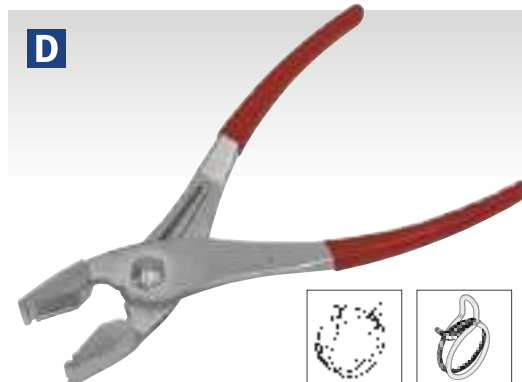
Length: 175mm



C **Hose Clip Pliers - Clic® Compatible**
Model No. VS1664

Spring loaded pliers for fitting and removing Clic® and Clic-R® hose clips. Special jaws change from 'fit' to 'remove' (and back again) simply by turning the pliers over in your hand. PVC dipped handles for improved grip and comfort.

Length: 160mm



D **Spring Hose Clip Pliers**
Model No. VS1674

Spring loaded pliers, for fitting and removing hoses fitted with constant pressure type hose clips. Designed to be used front or side facing, making the tool fast and effective to use. Slots in 16mm jaws, locate and secure hose clip ends into position. Can also be used as a traditional set of pliers.

Length: 205mm



E **Ear-Type CVJ Boot/Hose Clip Pliers**
Model No. VS1633

Formed steel arms with insulated vinyl handles. Suitable for ear-type hose clips found on fuel, cooling system and vacuum hoses. Also used for securing CVJ boot clips.

Length: 235mm



F **HEAVY DUTY**
Heavy-Duty Ear-Type CVJ Boot/Hose Clip Pliers
Model No. VS1635

Heavy-duty pliers with steel jaws and formed handles for extra comfort in use. Suitable for ear-type hose clips found on fuel, cooling system and vacuum hoses. Also used for securing CVJ boot clips.

Length: 235mm



G **EXTRA HEAVY DUTY**
Extra-Heavy-Duty Ear-Type Clip Pliers
Model No. VS1639

Steel jaws with PVC coated handles for added comfort. Each handle features a 1/2"Sq drive for use with a torque wrench and breaker bar where vehicle maker demands specific band tensions. Suitable for all ear-type CVJ boot clips.

Length: 240mm



H **NEW**
Extra-Heavy-Duty Ear-Type Clip Pliers
Model No. VS1680

Steel jaws with PVC coated handles for added comfort. Features a double setting reaction bar, allowing for pre-tensioning for positive clamping. Mechanical lock avoids any damage to the collar at the end of the operation. Double-jointed pivot allows for minimal clamping effort. Suitable for medium sized closed and open ear-type clips.

Length: 270mm



A 430mm Hose Clip Pliers - Double-Jointed
Model No. VS1678

Specially designed jaws give excellent grip onto a wide range of vehicle hose clips. 430mm Double-jointed feature gives a long reach, allowing easy-access into places like bottom radiator hoses. Clever spring loaded locking function allows use one-handed. 65mm Jaw capacity. 35° Angled head version available for access into difficult tighter areas in the engine bay, Model No. VS1677 **C**.

Length:

430mm



B Hose Clip Pliers
Model No. VS166

Suitable for removal of tag and wire type hose clips. Features ratchet locking mechanism for ease of use on lower radiator hoses. Swivel jaws allow use where access is confined. PVC dipped handles for improved grip and comfort.

Length:

225mm



C NEW

C Hose Clip Pliers - Angled
Model No. VS1677

Specially designed jaws give excellent grip onto a wide range of vehicle hose clips. 35° Angled head allows access into tight areas in the engine bay. Clever spring loaded locking function allows use one-handed. 100mm Jaw capacity. Extended double-jointed version available for longer reach, Model No. VS1678 **A**.

Length:

275mm

D 9pc Hose Clip Removal Tool Set
Model No. VS1662

All the hose clip tools you are likely to need in one case. Comprehensive set features heavy-duty construction with ratchet locking mechanism on most pliers. Vinyl dipped handles give additional comfort.

Contents: Remote Action Hose Clip Tool, Swivel Jaw Spring Wire Clip Pliers, Swivel Jaw Band Clip Pliers, Angled Band Clip Pliers, Flat Band Clip Pliers, Clic-R® Type Pliers, Hose Removal Pliers, Hose Pick, Double End Screwdriver



E 2pc Hose Clip Pliers Set
Model No. VS1665

Heavy-duty construction with PVC dipped handles for added comfort and grip. Special 'V' slot and cross slot jaws for installation and removal of tag and wire type hose clips. Pliers with ratchet locking mechanism for ease of use on lower radiator hoses. Swivel jaws allow use where access is confined.

Length:

220mm





A 35mm
Folding Mechanic's Mat with Headrest
Model No. VS860

Highly portable, folding work mat with headrest. Can be used folded for kneeling or unfolded for under vehicle work. Ideal for use on cold garage floors or for roadside repairs. Folds away neatly with hook-and-loop straps when not in use.

Folded Size (L x W x D):	660 x 444 x 70mm
Open Size (L x W x D):	1220 x 444 x 35mm



B 38mm
Folding Mechanic's Work Mat
Model No. VS858

Flexible work mat with two handles for portability. Durable composite cover that resists stains and fluids. High-density padding for added comfort. Ideal for working on cold garage floors and for roadside repairs.

Folded Size (L x W x D):	610 x 444 x 76mm
Open Size (L x W x D):	1220 x 444 x 38mm



C
Magnetic & Suction Grip Workshop Wing Cover
Model No. VS8503

Soft-faced vinyl material prevents scratching and marking of paintwork during servicing. Unique design featuring a cut-out, allowing access to wheel whilst in place. Wing cover can be held in place with eight integral magnets or four suction grips or a combination of both. Ideal for metal and plastic wings or securing onto headlight covers.

Size (W x H):	1050 x 590mm
----------------------	--------------



D 22mm
22mm Mechanic's Mat Set EVA
Model No. VS857

Quality 22mm EVA mats ideal for the busy mechanic. Set comprises full length and kneeler mats for use on workshop floors when working on wheels, brakes, tyres and exhausts. Also ideal for roadside repairs.

Contents:	Size:
Kneeler Mat (L x W x D):	385 x 280 x 22mm
Full Length Mat (L x W x D):	890 x 390 x 22mm



E 28mm
28mm Mechanic's Mat Set EVA
Model No. VS8571

Quality 28mm EVA mats ideal for the busy mechanic. Set comprises of full length and kneeler mats for use on workshop floors when working on wheels, brakes, tyres and exhausts. Also ideal for roadside repairs.

Contents:	Size:
Kneeler Mat (L x W x D):	450 x 215 x 28mm
Full Length Mat (L x W x D):	980 x 380 x 28mm



F **NEW**
22mm
22mm Mechanic's Mat Set EVA
Model No. S08561

Quality 22mm EVA mats ideal for the busy mechanic. Sets comprise of full length and kneeler mats for use on workshop floors when working on wheels, brakes, tyres and exhausts. Also ideal for roadside repairs.

Contents:	Size:
Kneeler Mat (L x W x D):	450 x 215 x 22mm
Full Length Mat (L x W x D):	980 x 380 x 22mm



G **NEW**
28mm
28mm Mechanic's Mat EVA
Model No. VS8590

Quality 28mm EVA mat ideal for the busy mechanic. Suitable for use on workshop floor when working on wheels, brakes, tyres and exhausts. Also ideal for roadside repairs.

Size (L x W x D):	990 x 490 x 28mm
--------------------------	------------------



H 28mm
28mm Mechanic's Kneeling Mat EVA
Model No. VS8573

Quality 28mm EVA kneeling mat ideal for the busy mechanic. Suitable for use on workshop floor when working on wheels, brakes, tyres, exhausts. Also ideal for roadside repairs.

Size (L x W x D):	450 x 215 x 28mm
--------------------------	------------------



I **NEW**
22mm
22mm Mechanic's Kneeling Mat EVA
Model No. S08563

Quality 22mm EVA kneeling mat ideal for the busy mechanic. Suitable for use on workshop floor when working on wheels, brakes, tyres, exhausts etc. Also ideal for roadside repairs.

Size (L x W x D):	450 x 215 x 22mm
--------------------------	------------------



A Duraboot Stretch CVJ Boots
Model No. [SEE BELOW](#)

Model No:	Joint Diameter:	Length:
DBC100	Ø80-104mm	90mm
DBC200	Ø73-95mm	106mm
DBC300	Ø86-112mm	119mm
DBC400	Ø80-104mm	112mm
DBC500	Ø70-91mm	84mm
DBC600	Ø76-99mm	92mm
DBC700	Ø74-96mm	99mm
DBC800	Ø60-78mm	104mm



D Ø56-120mm Universal Split CVJ Boot
Model No. [CVS18](#)

No dismantling of joint/shaft required and can be fitted in 20 minutes. Supplied with fitting kit including clips, grease sachet, disposable gloves, glue, cutting guide and fitting instructions.

Joint Diameter:	Ø56-120mm
Shaft Diameter:	Ø19-35mm



H Universal Stretch CVJ Boots
Model No. [SEE BELOW](#)

Supplied with fitting kit including clips, grease sachet and cutting guide. Suitable for vans and light commercial vehicles.

Model No:	Joint Diameter:	Qty:	Shaft Diameter:
CV88	Ø80-120mm	1	Ø28-40mm
CV96	Ø56-116mm	1	Ø19-28mm
CV9612	Ø56-116mm	12	Ø19-28mm



B Driveshaft Extractor Fork
Model No. [VS960](#)

Designed for the quick and safe removal of driveshafts held in place with a spring clip. Suitable for Ford, Mazda, Renault, Volvo and a wide range of front wheel drive vehicles. Fits between the gearbox and driveshaft for optimal contact and leverage. Helps prevent damage to the driveshaft and surrounding components.



E-F CVJ Boot Ear Clamps - Packs of 25
Model No. [SEE BELOW](#)

Stainless steel, single ear, low profile CVJ boot clamps. Manufactured to DIN 1.4301

Model No:	Diameter:
E CVC01	Ø19-40mm
F CVC02	Ø50-110mm



I Universal CVJ Boot Clamp Kit
Model No. [BSL102](#)

Kit includes 56m high quality stainless steel banding with a tensile strength of 420N/mm². The dispenser case also houses 150* clamp sets and unique pliers with integrated cutters and band tensioner.

Band Size:	5.5 x 0.4mm
Band Length:	56m
Clamps/Buckles:	150pc*
	*Approximate



C Car Ball Joint Dust Covers - Pack of 6 Assorted
Model No. [RJC01](#)

Multipurpose ball joint dust covers easily replace split or damaged dust covers on otherwise serviceable ball joints, avoiding MOT test failure. Pack contains six ball joint dust covers supplied in three different sizes (two of each) with retaining 'O' rings and fitting tool. Covers a wide range of car and small commercial vehicle applications.

Cover Size:	Hole Sizes:
Small:	Ø10mm/25mm
Medium:	Ø12mm/36.5mm
Large:	Ø15mm/30mm



G Commercial Vehicle Ball Joint Dust Covers - Pack of 3
Model No. [RJC02](#)

Multipurpose ball joint dust covers easily replace split or damaged dust covers on otherwise serviceable ball joints, avoiding MOT test failure. Pack contains three ball joint dust covers supplied with retaining 'O' rings and fitting tool. Covers a wide range of commercial vehicle applications.

Hole Sizes:	Ø18mm/40.5mm
-------------	--------------

J-M Exhaust Mounting Rubbers (Packs of 2)
Model No. [SEE BELOW](#)

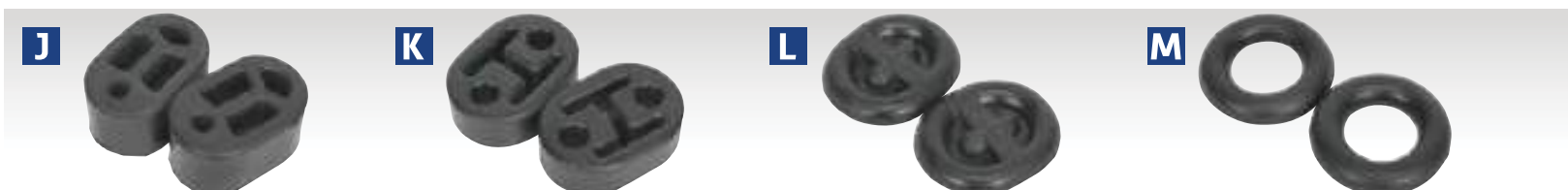
Packs of two rubber exhaust mounts. Selection of common sizes to fit many models of vehicle.

J Model No:	EX01
Dimensions (L x D x H):	70 x 45 x 37mm
Mounting Holes:	Ø9mm, 18 x 10mm Oval
Distance Between Mounts:	33mm

K Model No:	EX02
Dimensions (L x D x H):	60 x 41 x 20mm
Mounting Holes:	Ø10.5mm
Distance Between Mounts:	24mm

L Model No:	EX03
Dimensions (L x D x H):	62 x 54 x 13.5mm
Mounting Hole:	3.5mm High 180° Slots
Distance Between Mounts:	11mm

M Model No:	EX04
Dimensions (L x D x H):	59 x 59 x 13.5mm
Mounting Hole:	Ø30mm





A CVJ Boot Tool - Air Model No. BSL103

Installs CVJ boots without removing drive shafts from the vehicle or the CV joint from the drive shaft. No effort and no mess. Save on labour time by up to 70% and prevent damage to CV joint. Composite body with simple control valve, works from standard workshop air supply. Suitable for cars and light commercial vans.

Maximum Joint:	Ø110mm
Maximum Air Pressure:	116psi(8bar)
Air Inlet:	1/4"BSP
Weight:	2kg



B CVJ Boot Installation Tool Model No. VS705

Composite cone enables installation of CVJ boot without splitting drive train. Suitable for use with all Sealey CVJ stretch boots.

Maximum Joint:	Ø105mm
Length:	345mm



C CVJ Removal Tool Model No. VS710

Quickly removes the CV joint from the drive shaft without damaging the joint, and keeps hands-free for releasing retaining circlip. Reduces risk of damage to transmission. Saves on labour time and is suitable for most vehicles.

Maximum Joint:	Ø95mm
Length:	230mm



D CVJ Boot/Hose Clip Tool with Cutter Model No. VS1636

Quality made tool designed to aid fast tensioning and securing of CVJ boot banding material. Simply insert banding, tension using winding mechanism, and then pull over lever to cut the band to length. Fitted with large and comfortable handle.

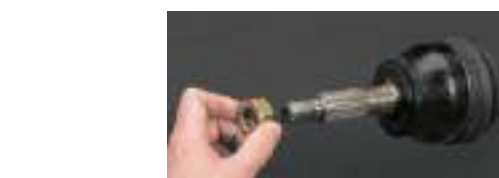
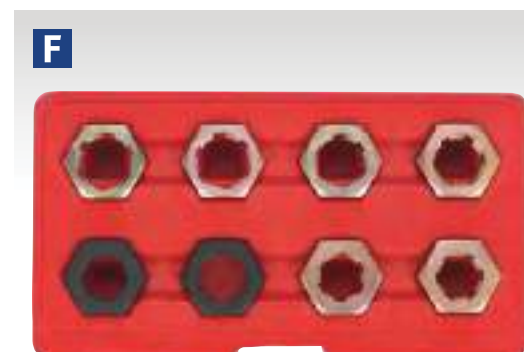
Maximum Band Capacity:	1mm Thick x 10mm Wide
------------------------	-----------------------



E CVJ Boot Band Pliers Model No. VS1640

Steel body CVJ Boot band pliers with 3/8"Sq drive, for the assembly of new stainless steel bands on drive shafts where a torque setting is required.

Length:	250mm
---------	-------



F 8pc CVJ Thread Chaser Set Model No. VS715

A must have tool for every workshop. Repairs light damage to CV joint threads. Set contains sizes to fit the most common types of vehicle. Must be used with a light oil to lubricate thread.

Contents:	M20 x 1.25, M20 x 1.5, M22 x 1, M22 x 1.5, M24 x 1.5, M24 x 2mm, 3/4" x 20 UNEF, 13/16" x 20 UNEF
-----------	---



A 534pc Sump Plug & Washer Assortment Model No. VS663

Assortment of alloy washers and sump plugs ideal for everyday use within a busy workshop.

Sump Plugs: M10 x 1, M12 x 1.5, M13 x 1.5, M14 x 1.5, M15 x 1.5, M16 x 1.5, M18 x 1.5, M20 x 1.5mm



D Oil Drain Plug Thread Repair Sets Model No. SEE BELOW

Ideal for repairing sump, gearbox and differential drain plug threads. Used to tap the damaged thread slightly oversize, then fit a new drain plug and washer. Sizes are suitable for the most popular threads used on cars and light commercial vehicles.

Model No:	Tap Size:
VS613	M13 x 1.5mm
VS615	M15 x 1.5mm
VS617	M17 x 1.5mm



G Thread Repair Master Kit Model No. TRMK

Suitable for five common sizes of thread. Creates a stronger internal thread in soft metals. Ideal for repairing damaged or stripped internal threads. Protects tapped threads against wear and damage. Includes drill bits, thread taps, insert installation and lug breaking tools. Supplied in metal storage case.

Thread Sizes: M5 x 0.8, M6 x 1, M8 x 1.25, M10 x 1.5, M12 x 1.75mm

Thread Lengths: M5 x 4.5mm (x25), M6 x 5.5mm (x25), M8 x 8 (x25), M10 x 10mm (x25), M12 x 11mm (x10)

Replacement Thread Inserts: TRM5R, TRM6R, TRM8R, TRM10R, TRM12R



B Drain Plug Thread Repair Set Model No. VS660

Superb for repairing sump, gearbox and differential drain plug threads. Used to tap the damaged thread slightly oversize, then fit a new drain plug and washer (supplied). Set is suitable for the most popular threads used on cars and light commercial vehicles. Supplied in storage case.

Tap Sizes: M13 x 1.5, M15 x 1.5, M17 x 1.5, M20 x 1.5mm



E Thread Repair Kits Model No. SEE BELOW

Creates a stronger internal thread in soft metals. Ideal for repairing damaged or stripped internal threads. Protects tapped threads against wear and damage. Set includes drill bit, thread tap, insert installation and lug breaking tool. Each size supplied with three different lengths of thread insert.

Model No:	TRM5
Thread Size:	M5 x 0.8mm
Thread Lengths:	3.5, 5, 7mm (5pc each)
Replacement Thread Inserts:	TRM5R

Model No:	TRM6
Thread Size:	M6 x 1mm
Thread Lengths:	4, 6, 9mm (5pc each)
Replacement Thread Inserts:	TRM6R

Model No:	TRM8
Thread Size:	M8 x 1.25mm
Thread Lengths:	6, 9, 12mm (5pc each)
Replacement Thread Inserts:	TRM8R

Model No:	TRM9
Thread Size:	M9 x 1.25mm
Thread Lengths:	7, 14mm (3pc each), 11mm (4pc)
Replacement Thread Inserts:	TRM9R

Model No:	TRM10
Thread Size:	M10 x 1.5mm
Thread Lengths:	7.5, 15mm (3pc each), 11mm (4pc)
Replacement Thread Inserts:	TRM10R

Model No:	TRM12
Thread Size:	M12 x 1.75mm
Thread Lengths:	9, 18mm (2pc each), 14mm (4pc)
Replacement Thread Inserts:	TRM12R

Model No:	TRM14
Thread Size:	M14 x 1.25mm
Thread Lengths:	10, 21mm (1pc each), 16mm (3pc)
Replacement Thread Inserts:	TRM14R



C Oil Drain Plug Master Thread Repair Set Model No. VS661

Comprehensive thread repair kit ideal for repairing sump, gearbox and differential drain plug threads. Used to tap the damaged thread slightly oversize, then fit a new drain plug and copper washer (supplied). Set is suitable for the most popular threads used on cars and light commercial vehicles. Supplied in storage case.

Tap Sizes: M13 x 1.25, M13 x 1.5, M15 x 1.5, M17 x 1.5, M20 x 1.5, M22 x 1.5mm



F Thread Inserts Model No. SEE BELOW

Replacement thread inserts for Sealey Thread Repair Kits.

Model No:	TRM5R
Thread Size:	M5 x 0.8mm
Thread Lengths:	3.5, 5, 7mm (5pc each)

Model No:	TRM6R
Thread Size:	M6 x 1mm
Thread Lengths:	4, 6, 9mm (5pc each)

Model No:	TRM8R
Thread Size:	M8 x 1.25mm
Thread Lengths:	6, 9, 12mm (5pc each)

Model No:	TRM9R
Thread Size:	M9 x 1.25mm
Thread Lengths:	7, 14mm (3pc each), 11mm (4pc)

Model No:	TRM10R
Thread Size:	M10 x 1.5mm
Thread Lengths:	7.5, 15mm (3pc each), 11mm (4pc)

Model No:	TRM12R
Thread Size:	M12 x 1.75mm
Thread Lengths:	9, 18mm (2pc each), 14mm (4pc)

Model No:	TRM14R
Thread Size:	M14 x 1.25mm
Thread Lengths:	10, 21mm (1pc each), 16mm (3pc)



A Plastic Sump Plug - Ford Duratorq
Pack of 10
Model No. **DB8127**

Replacement plastic sump plug used on Ford vehicles. Ford OEM part number: 1830727.



B Plastic Sump Plug - VAG - Pack of 10
Model No. **DB8131**

Replacement plastic sump plug used on VAG vehicles. Also suitable for the camshaft cover on VAG 1.6D and 2.0TDI diesel engines. VAG OEM part number: 06L 103 801.



C Plastic Sump Plug - BMW - Pack of 10
Model No. **DB8165**

Replacement plastic sump plug used on BMW vehicles. BMW OEM part number: 11137605018.



D Plastic Sump Plug - Ford/PSA - Pack of 10
Model No. **DB8198**

Replacement plastic sump plug used on Citroen/Peugeot and Ford vehicles. Ford OEM part number: 1871598. Citroen/Peugeot OEM Part Number: 9801444780.



E Oil Filter Drain Funnel - Vauxhall/Opel
Model No. **VS5053**

Designed to reduce the amount of time taken to replace the engine oil filter on Vauxhall/Opel vehicles fitted with the B20 diesel engine. Once the drain funnel is located, oil draining from the oil filter can be channelled into a suitable receptacle. Time-saving tool eliminates oil spillage onto vehicle chassis and components during filter change.



F 5pc Plastic Oil Drain Plug Driver Kit
Model No. **VS673**

Designed for use with BMW, Ford and PSA plastic drain bungs, as fitted to modern engine ranges. Contains T-Drive, slotted socket, adaptor, hex key and drive bit.



G Automatic Gearbox Oil Filler Set
Mercedes 9G-Tronic
Model No. **VS589**

Suitable for 9G-Tronic 725 series gearboxes fitted to Mercedes E350 Bluetec (2013on) and CLS models (2014on). Contains a socket wrench to adjust oil level and a quick release coupling. Designed for drain and refilling operations.



H Sump Plugs - Packs of 5
Model No. **SEE BELOW**

Replacement sump plugs. Suitable as a refill for Model No. VS660 drain plug thread repair kit. Supplied in packs of five.

Model No:	Size:
VS13SP	M13
VS15SP	M15
VS17SP	M17
VS20SP	M20



I Sump Plug Washers - Packs of 5
Model No. **SEE BELOW**

Replacement sump plug washers. Suitable as a refill for Model No. VS660 drain plug thread repair kit. Supplied in packs of five.

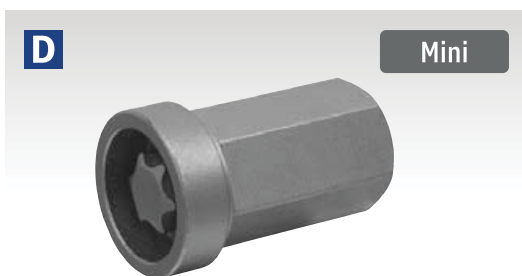
Model No:	Size:
VS13SPW	M13
VS15SPW	M15
VS17SPW	M17
VS20SPW	M20



A 1/4" Sq Drive Oil Drain Plug Key - VAG

1/4" Sq drive key, designed specifically for the plastic sump plugs found on VAG TFSi engines. Also designed for use on the cam cover of newer 1.6 and 2.0 twin cam diesel VAG engines.

Drive:	1/4" Sq
OEM Tool:	T10549
Applications:	VAG Sump Plug; 1.2, 1.4, 1.8, 2.0 TFSi, VAG Cam Cover; 1.6, 2.0 TDi



D AT Filler Socket T55 - Mini

For easy removal/installation of the automatic transmission filler/level plug. These gearboxes have a very small clearance between the filler plug and power steering unit, and cannot be accessed with a ratchet. Includes a sleeve that fits securely around the outside of the plug giving stability in use. Use in conjunction with 17mm spanner.

Drive:	17mm Hex
--------	----------



G Safety Sump Plug Remover

Designed to remove the sump plug after it has been loosened, without making contact with hazardous hot oil. Features 90° edge for turning aid, and magnet for stability.



B T-Handle Oil Drain Plug Key - VAG

Designed specifically for the plastic sump plugs found on the VAG TFSi engines. Also designed for use on the cam cover of newer 1.6 and 2.0 twin cam diesel VAG engines. Features T-handle for quick operation.

OEM Tool:	T10549
Applications:	VAG Sump Plug; 1.2, 1.4, 1.8, 2.0 TFSi, VAG Cam Cover; 1.6, 2.0 TDi



E 6pc Double End Oil Drain Plug Key Set

Use with 19mm socket on ratchet driver.

Contents:	
Hex:	5/16", 3/8", 1/2", 8, 10, 12, 14, 17mm
Square:	3/8", 8, 11, 13mm



H 21pc 3/8" Sq Drive Oil Drain Plug Key Set

Contents: Square Male; 7, 8, 10, 11, 12, 13, 14mm, 5/16", 3/8", Square Female; 10mm, Hex; 8, 9, 10, 12, 13, 14, 17mm, Triangle; 10mm (PSA), Security Spline; M16 (VAG), TRX-Star*; T45 (Vauxhall/Opel), 3/8" Sq Drive Sliding T-Bar



C 5mm 3/8" Sq Drive Extra-Long Ball-End Hex Key - VAG

Manufactured from Chrome Vanadium steel. Designed for easy-access on engine sump bolts. Suitable for a variety of VAG vehicles.

Drive:	3/8" Sq
Length:	235mm



F 6pc Double End Drain Key Set

Double end carbon steel keys with satin chrome finish. Suitable for drain plugs on engine, gearbox and back axle. Includes tommy bar.

Contents:	
Hex:	5/8", 9, 10, 12, 14, 17mm
Square:	3/8", 8, 11, 13mm



I 8-in-1 Oil Drain Plug Wrench

The right size drain plug key always in your hand. Eight popular sizes covered in one tool. Suitable for drain plugs on engine, gearbox and rear axle.

Contents:	
Hex:	10, 12, 14, 17mm
Square:	3/8", 1/2", 8, 10mm



A Ø63-103mm Oil Filter Claw Wrench
Model No. AK642

Satin finish steel construction with 3/8" and 1/2"Sq drive. Also suitable for use with a 21mm(13/16") spanner. Claws grip filter tighter as more torque is applied.

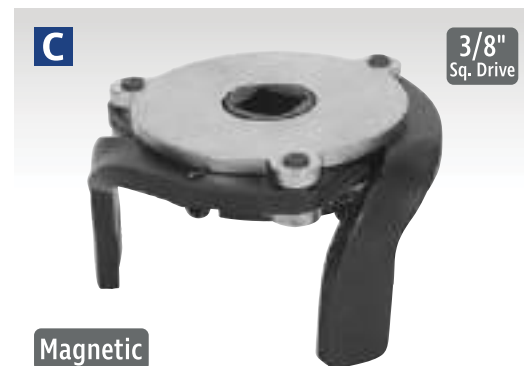
Capacity:	Ø63-103mm
Drive:	3/8" & 1/2"Sq
Claw Length:	29mm



B Ø65-110mm Oil Filter Claw Wrench
Model No. AK643

Satin finish steel construction with 3/8" and 1/2"Sq drive. Also suitable for use with a 21mm(13/16") spanner. Claws grip filter tighter as more torque is applied.

Capacity:	Ø65-110mm
Drive:	3/8" & 1/2"Sq
Claw Length:	44mm



C Ø60-93mm Magnetic Oil Filter Claw Wrench
Model No. AK6432

Satin finish steel construction with 3/8"Sq drive. Spring loaded claws automatically adjust to the size of the filter. Features magnets to help positioning on oil filter.

Capacity:	Ø60-93mm
Drive:	3/8"Sq
Claw Length:	25mm



D Ø300mm Oil Filter Strap Wrench
Model No. AK6403

Satin finish cast steel body with 3/8" and 1/2"Sq drive. Designed for use with ratchet wrench, but may also be used with a 21mm(13/16") spanner. Extra-wide nylon webbing strap.

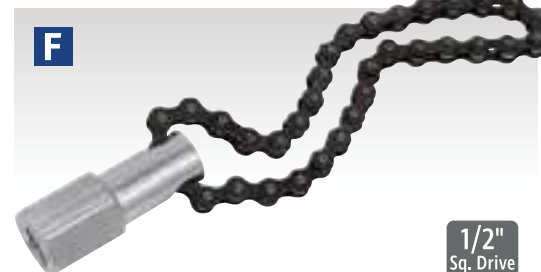
Capacity:	<Ø300mm
Drive:	3/8" & 1/2"Sq



E Ø120mm Oil Filter Strap Wrench
Model No. AK640

Satin chrome finish socket. Use with 1/2"Sq drive ratchet or 21mm(13/16") spanner. Strong 25mm wide nylon webbing with capacity up to Ø120mm.

Capacity:	<Ø120mm
Drive:	1/2"Sq



F Ø135mm Oil Filter Chain Wrench
Model No. AK641

Satin finished carbon steel body with 1/2"Sq drive for use with ratchet wrenches. May also be used with a 20mm spanner. Heavy-duty chain.

Capacity:	<Ø135mm
Drive:	1/2"Sq



G Ø60-105mm Oil Filter Chain Wrench
Model No. VS936

Steel chain wrench with 180° pivoting handle suitable for filters with limited access. Heavy-duty chain with spring locking mechanism for added security.

Capacity:	Ø60-105mm
-----------	-----------



H Ø60-160mm Air Dryer Cartridge Chain Wrench - Commercial
Model No. CV936

Steel chain wrench with 180° pivoting handle suitable for filters with limited access. Heavy-duty chain with spring locking mechanism for added security. Essential tool for removing commercial air brake filters.

Capacity:	Ø60-160mm
-----------	-----------



I Ø73-169.5mm Air Dryer Cartridge Chain Wrench
Model No. CV937

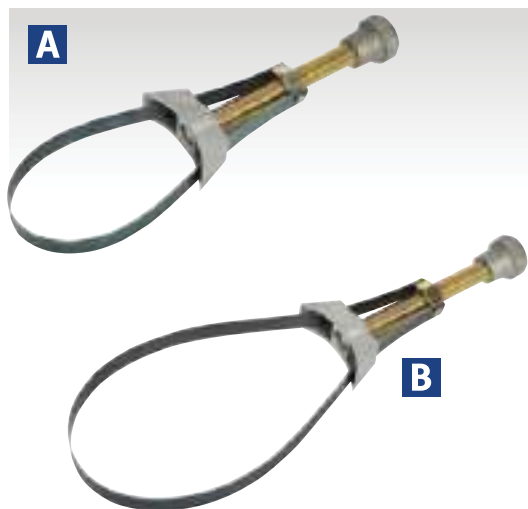
Satin finished carbon steel body with 1/2"Sq drive for use with ratchet wrenches. Heavy-duty thin double chain. Essential tool for removing commercial air brake filters.

Capacity:	Ø73-169.5m
-----------	------------

J Ø60-115mm Oil Filter Chain Wrench
Model No. VS937

Satin finished carbon steel body with 1/2"Sq drive for use with ratchet wrenches. Heavy-duty thin double chain.

Capacity:	Ø60-115mm
-----------	-----------



A - B Oil Filter Band Wrenches
Model No. [SEE BELOW](#)

Band type filter wrenches. Steel strap with heavy-duty cast body and control knob. Removes filters with minimal risk of damage.

Model No:	Capacity:
A AK644	Ø65-105mm
B AK645	Ø105-155mm



C - D Oil Filter Band Wrenches
Model No. [SEE BELOW](#)

Articulated filter wrenches suitable for filters with limited access. No ratchet or combination spanner necessary. Swivel action tightens band on filter automatically. PVC Dipped handle.

Model No:	Capacity:
C AK6415	Ø73-82mm
D AK6416	Ø89-98mm



E Ø65-105mm Oil Filter Band Wrench
Model No. [AK6441](#)

Features textured high grip steel strap with comfort grip handle and control knob. Removes filters with minimal risk of damage.

Capacity:	Ø65-105mm
------------------	-----------



F - G Strap Wrenches
Model No. [SEE BELOW](#)

Suitable for removing and installing oil filters as well as many other applications. Adjustable strap fits filters up to Ø120mm or Ø150mm, depending on model. Features soft grip handle for added comfort.

Model No:	Capacity:
F AK6406	Ø120mm
G AK6407	Ø150mm



H 2pc Strap Wrench Set
Model No. [AK6408](#)

Suitable for removing and installing oil filters as well as many other applications. Adjustable strap fits filters up to Ø120mm or Ø150mm, depending on wrench. Features soft grip handle for added comfort.

Capacity:	Ø120, Ø150mm
------------------	--------------



J Ø60-140mm Oil Filter Chain Wrench
Model No. [AK6409](#)

Forged steel body with chrome finish and hanging hole.

Capacity:	Ø60-140mm
------------------	-----------



K Ø60-106mm Oil Filter Chain Wrench
Model No. [AK6410](#)

Extended pin chain and twin-claw body for positive and reliable chain retention. Drop-forged steel body with hanging hole.

Capacity:	Ø60-106mm
------------------	-----------



I Ø60-140mm Oil Filter Strap Wrench
Model No. [AK6404](#)

Satin finished, drop-forged steel body with hanging hole. Reinforced, rubberised strap.

Capacity:	Ø60-140mm
------------------	-----------



L Oil Filter/Bottle Drain Pan
Model No. [DRP2030](#)

Designed to sit onto 20/30L containers, for the safe drainage of oil from used filters and bottles. Features four location points to keep bottles in the drainage position.



A - B Oil Filter Pliers
Model No. **SEE BELOW**

Serrated jaws and long handles for extra grip on oily filters. Features angled jaws, for use in confined engine bays. Non-slip rubber grip handles for added comfort and control.

Model No:	Capacity:
A AK6412	Ø54-89mm
B AK6411	Ø60-108mm



C Auto-Adjusting Oil Filter Pliers
Model No. **AK6419**

2-Stage action that automatically adjusts to the size of the filter, then tightens. Layered steel construction for added strength. Features serrated jaws to maximise grip and non-slip handles for added control.

Capacity:	Ø60-120mm
------------------	-----------



D Swivel Jaw Filter Pliers
Model No. **AK6417**

Jaws swivel up to 90° to give access to awkwardly positioned oil and fuel filters. Chemically blackened finish to prevent corrosion and non-slip handles for added comfort and control.

Capacity:	Ø57-120mm
------------------	-----------



E Auto-Adjusting Oil Filter Pliers - Angled
Model No. **AK6421**

30° Angled head allows access to previously impossible to reach areas. Jaws auto-adjust with one-hand operation. Layered steel construction for added strength. Non-slip shaped cushioned grips for comfort. Use for Ø60mm to 120mm capacity.

Capacity:	Ø60-120mm
------------------	-----------



H Oil Filter Wrench
Model No. **AK6420**

Spring loaded serrated jaws provide firm grip to oil filter. Slim design allows access in tight spaces.

Capacity:	Ø75-95mm
------------------	----------



F Pneumatic Oil Filter Crusher
Model No. **HFC08**

Reduce your waste disposal costs* - crushing filters minimises the volume of your hazardous waste. Air operated oil filter press with safety lock-out device which prevents the door being opened during operation. Floor mounting unit with outlet for waste oil transfer.

Internal Size (H x W x D):	280 x 190 x 190mm
External Size (H x W x D):	880 x 550 x 335mm
Maximum Filter Capacity (Height x Ø):	216 x 152mm
Air Supply:	100-190psi
Capacity:	10tonne
Pressing Time:	30sec

*For 'pay by volume' customers.



G Oil Filter Crushing Unit
Model No. **OFC1**

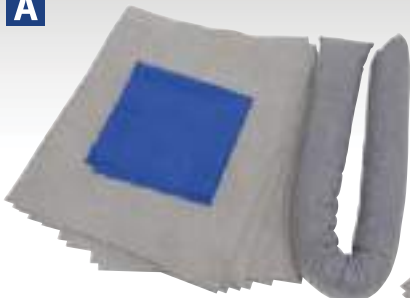
Used in conjunction with a press, this unit crushes filters up to Ø115mm and removes most of the oil and sludge, which drains into a suitable container (not supplied). Crushing filters minimises the cost of disposal of hazardous waste by volume. Supplied with ram extension to allow 2-stage crushing of large filters without repositioning press table. Suitable for Ø38mm(1.5") press rams. Optional adaptors enable use with Ø50mm and Ø60mm rams.

Internal Diameter:	Ø130mm
Effective Internal Height:	175mm
Drain Hose:	Ø10 x 1250mm
Optional Ram Adaptors:	
Model No:	Size:
OFA50	Ø50 x 115mm
OFA60	Ø60 x 115mm




I 17L Oil/Fluid Drain Pan
Model No. **DRP03**


See page 644 for full details.

A


Absorbs up to 15L

B

Absorbs up to 30L

C

Absorbs up to 50L



Supplied in storage bags.

A - C Spill Control Kits
Model No. **SEE BELOW**

These spill kits have been designed to be a highly mobile solution when responding to spills and leaks as well as assisting companies in complying with current pollution prevention guidelines and other regulations. Suitable for use with oil, petrol, diesel, coolants, mild solvents, water and other spills. A full list of absorbent applications is provided in each kit. Supplied in a resealable storage bag with a range of high quality absorbents, including high-grade polypropylene pads that can absorb up to 1L of fluid and featuring a double weight cover stock for maximum absorbency. Also supplied with 1.2m absorbent socks specially designed to absorb up to 5L of fluid and create barriers to keep spills from spreading.

Model No:	Capacity:	Contents:	Sizes:
A SCK15	15L	Pad (x10), Sock (x1), Disposal Bag with Ties (x1)	Pad; 500 x 400mm, Sock; 80mm x 1.2m
B SCK30	30L	Pad (x15), Sock (x3), Disposal Bag with Ties (x1)	Pad; 500 x 400mm, Sock; 80mm x 1.2m
C SCK50	50L	Pad (x25), Sock (x5), Disposal Bag with Ties (x1)	Pad; 500 x 400mm, Sock; 80mm x 1.2m


D

3/8" & 1/2" Sq. Drive
Low Profile

D 6pc Oil Filter Cap Wrench Set
Model No. **VS7103**

Low profile design for removing paper cartridge oil filter housing caps and slotted canister style oil filters. Use with 3/8"Sq drive for 24, 27, 29, 32, 36mm and 1/2"Sq drive for 42mm. Supplied in storage case.

Size:	Flutes / Steps:	Size:	Flutes / Steps:
24mm	6/1	32mm	6/1
27mm	6/1	36mm	6/1
29mm	6/1	42mm with 6.5mm Bar	0/1

G

Low Profile 3/8" Sq. Drive

G 7pc Oil Filter Cap Wrench Set
Model No. **VS7008**

Aluminium cap type filter wrenches with 3/8"Sq drive. Low profile design for removing paper cartridge style oil filters commonly fitted to vehicles including Ford, Mercedes, Vauxhall/Opel and VW.

Size:	Flutes / Steps:	Size:	Flutes / Steps:
24mm	6/1	30mm	6/1
27mm	6/1	32mm	6/1
29mm	6/1	36mm	6/1
		38mm	6/1

E

1/2" Sq. Drive

E 9pc Oil Filter Cap Wrench Set
Model No. **VS7007**

Cap type, 1/2"Sq drive, filter wrenches for commercial vehicles. Designed to grip like sockets, minimising the possibility of crushing filters. Includes Ø160mm strap wrench and 21mm wrench.

Size:	Flutes / Steps:	Size:	Flutes / Steps:
36mm	6/1	107mm	15/1
76mm	14/1	108mm	15/1
106mm	15/1	108mm	18/1
		135mm	18/1

Wrench: 21mm
Strap Wrench: Ø160mm
Applications: Fiat; Ducato 2.5D/TD, Iveco, MAN; L2000, F2000, TGA, Mercedes; Actros BR500, Atego BR900, Axor BR400, Sprinter, Renault; Scania, Vauxhall/Opel; Movano, Volvo, VW; Transporter

F

3/8" or 1/2" Sq. Drive

F 15pc Oil Filter Cap Wrench Set
Model No. **VS7003**

Cap type filter wrenches, made from 7 and 16 gauge steel will withstand up to 115Nm(85lb.ft) of torque. Designed to grip like sockets, thereby minimising the possibility of crushing filters. Electro-black oxide finish for rust protection. Use with 3/8" or 1/2"Sq drive wrenches.

Adaptor: 3/8"Sq Drive(M) x 1/2"Sq Drive(F)			
Size:	Flutes / Steps:	Size:	Flutes / Steps:
65mm	14/1	76mm	30/1
65-67mm	14/2	80mm	15/1
68mm	14/1	82mm	15/1
73mm	14/1	90mm	15/1
74-76mm	15/2	93mm	15/1
75-77mm	15/2	93mm	36/1
74-76mm	14/2	100mm	15/1



A **NEW** 3/8" Sq. Drive
A Oil Filter Cap Wrench - Mercedes Bluetec
Model No. **VS7117**

Cap type oil filter wrench. 3/8"Sq drive for use with torque wrenches. Designed for use on Mercedes Sprinter vans with 3L petrol and diesel engines. Also fits Mercedes C Class V 3.0, R320 CDI, ML320 CDI SUVs. Not suitable for impact use.

Applications:	Mercedes Sprinter
Drive:	3/8"Sq
Size:	Ø84mm
Flutes:	14



B **NEW** 3/8" Sq. Drive
B Oil Filter Cap Wrench Ø90mm x 15 Flutes Jaguar/Land Rover
Model No. **VS7120**

Cap type oil filter wrench. 3/8"Sq drive for use with torque wrenches. Designed for use on Jaguars and Land Rovers. Applications: Jaguar; XF, XJ (10-17), XFR, XJL, XK, XKR (10-16), Land Rover LR4, Range Rover, Range Rover Sport (10-17). Not suitable for impact use.

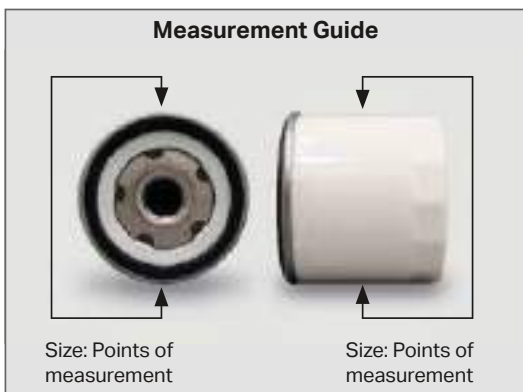
Applications:	Jaguar/Land Rover
Drive:	3/8"Sq
Size:	Ø90mm
Flutes:	15



C **NEW** 1/2" Sq. Drive
C Ø74.5mm 15pt Oil Filter Wrench - Ford 1.5, 1.6 EcoBoost Engine
Model No. **VS7145**

Angled 1/2"Sq drive for easy-access. Ø74.5mm diameter 15-point. Fits a wide range of Ford vehicles fitted with 1.5 and 1.6 EcoBoost engines.

Applications:	Ford 1.5, 1.6 EcoBoost Engine
----------------------	-------------------------------



D-K Oil Filter Cap Wrenches
Model No. **SEE BELOW**

Cap type filter wrenches prevent damage to filter housing and will withstand up to 115Nm(85lb.ft) of torque. Suitable for use in confined areas.

Model No:	Flutes/Size:	Applications:
D VS7006.V2-06	14/Ø76mm	BMW, Mercedes, Porsche, VAG
E VS7006.V2-07	12/Ø76mm	Citroen, Ford, Mercedes, Peugeot, Renault, VAG
F VS7006.V2-08	8/Ø76mm	Fiat, Lancia, Moto Guzzi (Motorcycles)
G VS7006.V2-15	18/Ø86mm	Alfa Romeo, Fiat, Mercedes, Renault, Seat, VW
H VS7006.V2-16	16/Ø86mm	Volvo
I VS7006.V2-22	45/Ø93mm	Audi, VW
J VS7006.V2-23	15/Ø95mm	Ford; Transit Vans
K VS7006.V2-24	18/Ø96mm	VAG



L 30pc Oil Filter Cap Wrench Set
Model No. **VS7006**

Extensive set designed for a wide range of vehicles. Cap type filter wrenches, made from 7 and 16 gauge steel, will withstand up to 115Nm(85lb.ft) of torque. Designed to grip like sockets, thereby minimising the possibility of crushed filters. Includes adjustable oil filter wrench. Adaptor allows use with 3/8" or 1/2"Sq drive wrenches. Supplied in storage case.

Adaptor:		3/8"Sq Drive(M) x 1/2"Sq Drive(F)	
Contents:			
Size:	Flutes/Steps:	Size:	Flutes/Steps:
65mm	14/1	80mm	15/1
65-67mm	14/2	80-82mm	15/2
66mm	6/1	86mm	16/1
68mm	14/1	86mm	18/1
73mm	14/1	90mm	15/1
74mm	15/1	92mm	10/1
74-76mm	15/2	93mm	15/1
75-77mm	15/2	93mm	36/1
76mm	8/1	93mm	45/1
76mm (Shouldered)	12/1	95mm	15/1
76mm	14/1	96mm	18/1
76mm	30/1	100mm	15/1
78mm	15/1	106mm	15/1
Filter Claw Wrench:		Ø65-120mm	



M 12pc Oil Pressure Test Kit
Model No. **VSE203**

Ø65mm Gauge fitted with heavy-duty cover. Tests oil pump pressure and also low oil warning devices. Fitted with quick coupling adaptors and 1.3m hose. Includes 90° coupling adaptor for limited access applications.

Adaptors:	R1/8" DIN 2999, 1/8" x 27NPT, 1/4" x 18NPT, 3/8" x 20UNF, 1/2" x 20UNF, M10 x 1, M12 x 1.5, M14 x 1.5, M16 x 1.5, M18 x 1.5mm, 90° Elbow
------------------	--



A Oil Filter Cap Remover - Ford/Jaguar/Citroen/Peugeot 2.0D/2.2D - Diesel
Model No. **VS7200**

Suitable for removing the cap from the oil filter housing on Ford, Citroen, Peugeot 2.0D/2.2D HDi/TDCi diesel engines (DW10C, DW12C) and Jaguar XF 2.2D from 2012 onwards. Allows access to the hard-to-reach 27mm hex located on the filter cap. Use with 1/2"Sq drive wrench.

OEM Tool:	303-1579
Applications:	
Ford:	C-Max, Grand C-Max, S-Max, Focus, Mondeo, Galaxy, Kuga
Citroen:	C4, C5, Picasso, Grand Picasso
Peugeot:	308, 3008, 508, 5008, 407, RCZ
Jaguar:	XF



D Oil Filter Cap Wrench - Mazda 1.5 - Diesel
Model No. **VS7116**

Cap type oil filter wrench. Designed for the 1.5 Skyactiv-D Mazda engine, launched in 2015. Aluminium alloy material minimises risk of damage to filter.

Size:	Ø57mm
Flutes:	12
Drive:	3/8"Sq
Applications:	Mazda 2, 3, CX3



B Oil Filter Remover Vauxhall 2.0/2.2 - Petrol
Model No. **VS7201**

Suitable for removing the cap from the oil filter housing on Vauxhall/Opel 2.0/2.2 petrol engines. Allows access to the hard-to-reach 32mm hex located on the filter cap. Use with 1/2"Sq drive wrench.

Applications:	Vauxhall; Astra, Insignia, Signum, Vectra, VX220, Zafira
----------------------	--



C T-Handle Oil Drain Plug Key - VAG
Model No. **VS653**

Designed specifically for the plastic sump plugs found on the VAG TFSi engines. Also designed for use on the cam cover of newer 1.6 and 2.0 twin cam diesel VAG engines. Features T-handle for quick operation.

OEM Tool:	T10549
Applications:	VAG Sump Plug; 1.2, 1.4, 1.8, 2.0 TFSi, VAG Cam Cover; 1.6, 2.0 TDi

E - H 3/8"Sq Drive Low Profile Oil Filter Sockets
Model No. **SEE BELOW**

High grade steel sockets. Low profile design enables use on cartridge style filters.

E Model No:	SX112
Size:	27mm
Drive:	3/8"Sq
Applications:	Mercedes; A Class
F Model No:	SX113
Size:	32mm
Drive:	3/8"Sq
Applications:	Vauxhall/Opel; Astra-G, Corsa-B, Zafira
G Model No:	SX114
Size:	36mm
Drive:	3/8"Sq
Applications:	BMW; 24v Petrol/Diesel, Ford Duratorq; Mondeo 2.0D, Transit 2.0 & 2.5, Mercedes; Vito CDi, Vauxhall/Opel; 16v (98on)
H Model No:	SX115
Size:	38mm
Drive:	3/8"Sq
Applications:	Vauxhall; Vectra 2.0D



I - N Oil Filter Cap Wrenches
Model No. **SEE BELOW**

Cap type oil filter wrenches. Crowned tops provide extra leverage points for removing stubborn oil filter housing caps. Aluminium alloy material minimises risk of damage to filter housing.

	I	J	K	L	M	N
Model No:	VS7111	VS7112	VS7113	VS7114	SX226	VS7115
Size:	Ø64.5mm	Ø64.5mm	Ø74.5mm	Ø87mm	Ø74mm	Ø93-96mm
Flutes:	14	14	14	16	14	18
Drive:	3/8"Sq	3/8"Sq	3/8"Sq	1/2"Sq	3/8"Sq	3/8"Sq
Applications:	Toyota	Lexus/Toyota	Mercedes	Volvo	Audi, BMW, Citroen, Fiat, Lancia, Mazda, Mercedes, Nissan Peugeot, Porsche, Renault, Suzuki, Toyota, Vauxhall/Opel, VW	Renault dCi 2.2 G9T, 2.5 G9U



A Fuel Line Disconnection Tool - BMW
Model No. **SX199**

Designed for disconnecting fuel lines on BMW engines. Applications: BMW 3 series 2006-2011 and X3 2006-2009 plus Mini Cooper 2007-2013. Manufactured from Aluminium.



B Oil Cooler Line Disconnection Tool - BMW
Model No. **SX198**

Designed for use on power steering and transmission oil cooler lines on BMW 1999-2011 3 series and X5 vehicles. Manufactured from Aluminium.



C Tractor Funnel with Water Separating Filter
Model No. **OIL/TF**

Heavy-duty funnel manufactured from high-density polyethylene. 255 x 165mm Aperture to accommodate up-ended containers. Supplied with water separating filter. Tapered spout with venting ribs.



D M16 1/2" Sq Drive Security Spline Socket Bit
Model No. **SX107**

1/2" Sq Drive Chrome Vanadium steel socket with knurled ring and S2 steel bit. Suitable for gearbox drain plugs on Audi; A3, A4, A6, VW; Golf IV and LT.



E Nut/Bolt Drill Jig
Model No. **VS559**

An essential race-day tool. Compact design ensures accurate drilling of nuts and bolts. Supplied in a pouch.

Sizes: M6 x 1, M8 x 1, M8 x 1.25, M10 x 1.25, M10 x 1.5, M12 x 1.5mm



F Sump Separator
Model No. **VS664**

Designed to separate the engine or gearbox sump without damaging the sump. Thin blade allows for the seal to be broken by lightly tapping the body with a hammer. Features two handle locations making it ideal for use in confined engine spaces.

Length: 110mm
Width: 70mm



G 100g Capacity Flexible Magnetic Pick-Up Tool
Model No. **VS6511**

Flexible magnetic pick-up tool perfect for reaching those hard-to-access areas, built with a 400mm long shaft for extended reach. 100g Magnetic pick-up capacity. Rubberised grip on a precision handle helps make small movements in tight spaces easier, with a Ø4mm head suitable for use in cylinder heads and glow plug apertures.



H 8 & 10mm Square Drain Plug Wrench
Model No. **AK6405**

Suitable for the removal of drain and filler plugs on gearboxes, sumps and back axles of popular vehicles.

Applications: Citroen, Honda, Mazda, Peugeot, Renault, Saab, Volvo



I Oil Cooler Heat Exchanger Pliers - BMW/Mini
Model No. **VS0559**

Specially designed to release the transmission oil cooler couplings when disconnecting the hoses from the heat exchanger on BMW/Mini.

OEM Tool: 17.0.030

Applications:

BMW:
1 Series: E81, E82, E87
3 Series: E46, E90
5 Series: E60
6 Series: E63
7 Series: E65
X3: E83
X5: E53, E70
Z4: E85
Mini: R50, R52, R53



A 7L Transmission & Engine Oil Filling System
Model No. VS7009

Manually operated oil dispensing unit manufactured from composite materials. Large visual measurement will identify amount dispensed. Supplied with a range of five automatic transmission fluid adaptors. Delivers approximately 70ml per stroke. Features a fluid control valve and adaptor storage to minimize oil leakage when not in use.

Capacity:	7L
Hose Length:	1.5m



B 3L Transmission Oil Filling System
Model No. VS70095

Pump operated oil dispensing unit with a 3L capacity. Supplied with five multipurpose and three vehicle specific automatic transmission fluid adaptors. Features a fluid control and depressurising valve.

Capacity:	3L
Maximum Pressure:	20psi(1.4bar)
Hose Length:	1.5m
Applications:	
Mercedes M12 Thread:	722.9 Gearbox
Audi/VW M22 Thread:	CVT (Continuously Variable Transmission)
Audi/VW M24 Thread:	DSG (Direct-Shift Gearbox)
Multipurpose Adaptors:	M10 x 0.9mm Thread,
	M10 x 1mm Thread, 3 x Angled



C 5L Transmission Oil Filling System
Model No. VS70096

Pump operated oil dispensing unit. Ideal for filling manual transmissions and differentials. Supplied with 100° hooked metal and flexible adaptors. Features a fluid shut-off valve to prevent accidental spillage. Includes pressure gauge.

Capacity:	5L
Maximum Pressure:	15psi(1bar)
Hose Length:	1.5m



D Transmission Oil Filler Adaptor - VAG
Model No. VS70091

For use in conjunction with Model No. VS7009 Transmission and Engine Oil Filling System. Suitable for automatic transmissions on VAG vehicles.

Thread Size:	M30 x 1.5mm
--------------	-------------



E Transmission Oil Filler Adaptor - Toyota/Lexus
Model No. VS70092

For use in conjunction with Model No. VS7009 Transmission and Engine Oil Filling System. Suitable for automatic transmissions on Toyota/Lexus vehicles.

Thread Size:	M18 x 1.5mm
--------------	-------------



F Transmission Oil Filler Adaptor - VW Passat/Tiguan
Model No. VS70093

For use in conjunction with Model No. VS7009 Transmission and Engine Oil Filling System. Suitable for automatic transmissions on Volkswagen Passat and Tiguan 2007 onwards.

Thread Size:	M10 x 1mm
--------------	-----------



G 3pc Transmission Oil Adaptor Set
Model No. VS70090

For use in conjunction with Model No. VS7009 Transmission and Engine Oil Filling System. Set contains automatic transmission oil adaptors suitable for Audi, Mercedes and VW vehicles. Supplied in storage case.

Applications:	
Mercedes M12 Thread:	722.9 Gearbox
Audi/VW M22 Thread:	CVT (Continuously Variable Transmission)
Audi/VW M24 Thread:	DSG (Direct-Shift Gearbox)



A 8L Vacuum Fuel/Fluid Extractor
Model No. **TP204**

See page 451 for full details.



B Low Profile Drip Trays
Model No. **SEE BELOW**

Low profile drip trays manufactured from hard-wearing recycled polypropylene. These have a broad appeal to both the classic car user and general mechanic. Purpose-made for the recovery of oil and fluids, these drip trays can be left under most vehicles due to their low profile design. These are ideal for use over prolonged periods of time, catching any drips that may occur whilst in storage or in the workshop. Model No's DRPL15 and DRPL25 are extra long in order to cover drips from both engine and gearbox.

Model No:	DRPL09	DRPL15	DRPL25
Size (W x D x H):	570 x 390 x 50mm	1000 x 400 x 50mm	1100 x 550 x 50mm
Capacity:	9L	15L	25L



C DSG Transmission Filter Wrench Long - VAG
Model No. **VS70097L**

Specially designed for the oil and filter change on DSG gearboxes fitted in VAG vehicles. Time-saving tool, allows filter removal without removing the battery. Shorter version available for common rail engines - Model No. VS70097S.

Drive: 1/2" Sq



D Common Rail DSG Transmission Filter Wrench - VAG
Model No. **VS70097S**

Specially designed shorter version (100mm) for VAG models with common rail engines and DSG gearboxes. Time-saving tool, allows filter removal without removing the battery. Longer version available - Model No. VS70097L.

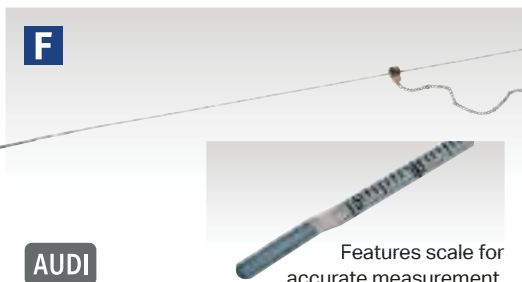
Drive: 1/2" Sq



E 3/8" Sq Drive Automatic Gearbox Filler Wrench - Jaguar
Model No. **VS266**

Suitable for Jaguar XJR, XJ, XK8, XKR, XF and S-Type using the 6HP26 automatic transmission. Allows the oil filler bung to be accessed where space is limited. Supplied with two adaptor pieces.

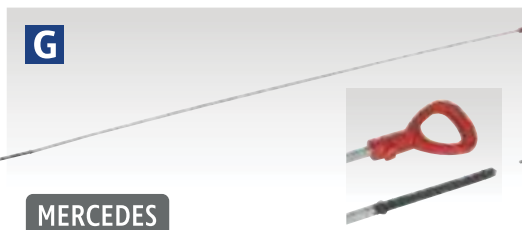
Drive: 3/8" Sq



F 600mm Engine Dipstick - Audi
Model No. **VS600ED**

Designed to measure the engine oil levels on Audi vehicles fitted with electronic oil level systems. Can also be used to calibrate the driver's instrument panel. Will also check the engine oil level on Audi; A4/A5 3.2 6-cylinder engines.

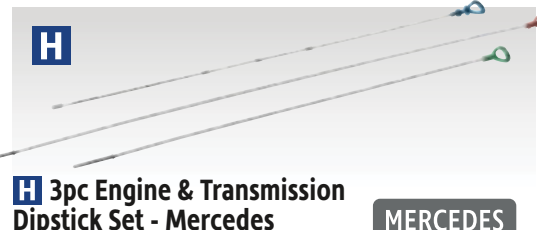
OEM Tool: T40178
Length: 600mm



G 1200mm Transmission Dipstick - Mercedes
Model No. **VS1200TD**

Transmission dipsticks for checking the fluid level on Mercedes 722.6, 722.7, 722.8 and 716.5 automatic transmissions, fitted to most Mercedes vehicles from 1996 to 2006. The dipstick is a service tool, therefore must be removed after the fluid has been checked. Made from spring steel with plastic measuring tip for accurately checking the fluid level.

Transmission Code: 722.6
Length: 1.2m



H 3pc Engine & Transmission Dipstick Set - Mercedes
Model No. **VS2000D**

This comprehensive set is compatible with a large selection of vehicles in the Mercedes range, covering engines from 1988 to 2005 and transmissions from 1996 to 2006. The dipstick is a service tool, therefore must be removed after the fluid has been checked.

Blue - Engine Codes: 103, 104, 111, 112, 113, 119, 120, 137, 271, 272, 604, 605, 606, 611, 612, 613, 628, 642, 646, 647, 648
Green - Transmission Codes: 716.5, 722.7, 722.8
Red - Transmission Code: 722.6



A 52pc Bearing Race & Seal Driver Set
Model No. VS7032

Set of 49 square edged heavy-duty steel drivers from Ø18mm to Ø74mm. Suitable for installation of bearings or seals without damaging the bearing, seal or housing. Adaptors can also be used in a standard workshop press.

Driver Sizes:	Ø18-65mm (1mm increments), Ø74mm
Contents:	Driver (x49), Punch, Punch Extension, 3mm Hex Key



F 4pc O-Ring Removal Tool Set
Model No. VS5211

Set of four angled tools that allow removal of O-rings and seals without damage. Features contoured and spoon tips.

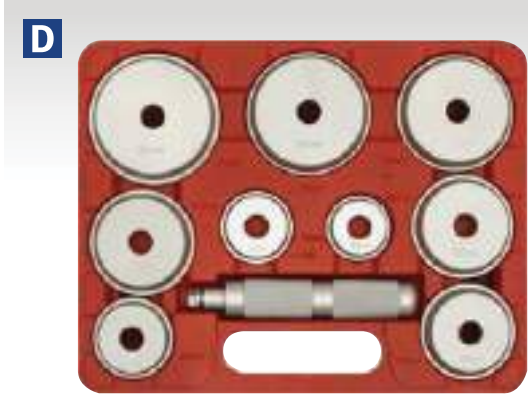
Lengths:	130mm (x2), 200mm (x2)
-----------------	------------------------



B 20pc Oil Seal Removal/
Installation Kit
Model No. VS7002

Comprehensive kit for the removal and installation of oil seals without damaging the new seal or housing. Kit includes a seal removal puller and seven adaptors to fit most sizes. Designed to allow original pulley/flange bolt to be used to press in the new seal, ensuring a squarely seated seal every time.

Adaptor Sizes:	Ø28, 34, 42, 46, 49, 56, 64mm
Bolt Adaptors:	Ø8, 10, 12, 14, 16, 18, 20mm
Height of Spacers:	10, 18, 22, 27mm



Aluminium

D 10pc Aluminium Bearing Race
& Seal Driver Set
Model No. VS703

Set of nine aluminium bearing and seal drivers. Suitable for straight installation of bearing race without damage to the bearing or axle housing. Fits most popular bearing race sizes.

Driver Sizes:	Ø39.5, 44, 50, 59, 63, 64.5, 72, 76, 81mm
----------------------	---



G Seal Puller
Model No. AK7000

Chrome shaft with chemically blackened tip insert. Suitable for safe removal of oil and grease seals found in automotive drives and transmissions, without damage to seal or surrounding casting. The two tips fit most popular seal sizes.

Length:	295mm
----------------	-------



C 37pc Bearing & Seal Installation Kit
Model No. VS7024

Contains three metal bearing drift sleeves and 34 nylon drifts. Can also be used to install oil seals. Fits most sizes of bearing and seals found on modern vehicles.

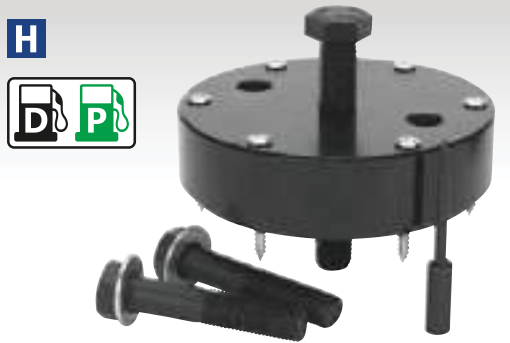
Drift Sleeve:	Ø25, 40, 60mm
Drift Sleeve Length:	220mm
Nylon Drift:	Ø26, 28, 30, 32 (x2), 35 (x3), 37, 40, 42 (x2), 47 (x3), 52 (x2), 55, 60, 62 (x3), 68, 72 (x2), 75, 80 (x2), 82, 85, 90 (x2), 100, 110mm



E 6pc Double End Oil Drain Plug Key Set
Model No. AK658

Use with 19mm socket on ratchet driver.

Contents:	
Hex:	5/16", 3/8", 1/2", 8, 10, 12, 14, 17mm
Square:	3/8", 8, 11, 13mm



H Rear Main Oil Seal Remover/Installer
Land Rover 2.25
Model No. VSE3038

Crankshaft rear seal remover/installer. Time-saving tool, supplied with pin punch and self tapping screws to easily remove the old seal. Unique design ensures the new seal is pushed in squarely and correctly. Fits all petrol and diesel 2.25 engines with five bearing crankshaft.

Applications:	
Land Rover:	Series III (80-85), Defender 90 (83-85), Defender 110 (83-85)



A 17pc Universal Clutch Aligning Tool Set Model No. AK710

Chemically blackened steel components in storage case. Aids alignment of clutch plate for assembly.

Spigot Adaptors:	Ø10.6-20mm
Mandrel:	Ø14.2-25.5mm



D 11pc Clutch Alignment Tool Set Model No. VS711

Suitable for a wide range of vehicles including some light commercial. Screw action provides fast adjustment for required hub diameter. Eight interchangeable spigot adaptors aid close alignment.

Spigot Adaptors:	Ø12, 14-20mm
Mandrel:	Ø15-19, 20-26.6, 23-36mm



G 9/16" Propshaft Impact Socket - Land Rover Model No. SX0110

Manufactured from Chrome Molybdenum and specially designed for propshaft bolts on Land Rovers. Slim wall socket design with slim extension enables it to fit perfectly between the yokes of the propshaft. Suitable for most Land Rover Defenders, Discoverys and Range Rovers.

Drive:	1/2" Sq
Socket Size:	9/16"
Outer Socket Diameter:	Ø20mm
Length:	150mm



B Universal Clutch Alignment Tool Model No. VS010

Nylon components with steel main shaft. Fits 90% of cars and light vans up to 5tonne gross (not suitable for vehicles with double plate clutches). Supplied with three different sized expanding collets.



E Clutch Alignment Set - Commercial Model No. CV031

Suitable for a wide range of commercial vehicles. Screw action provides fast adjustment to suit hub diameter. Four interchangeable spigot adaptors aid close alignment.

Spigot Adaptors:	Ø20, 25, 27, 30mm
Mandrel:	Ø36-45, 42-52mm



I Clutch Alignment Tool - BMW MINI 5-Speed Model No. VS716

For clutch plate alignment on 5-speed gearboxes fitted to engine codes (W10, B14A and B16A). 6-Speed applications use Model No. VS717.

OEM Tool:	216100
Applications:	MINI One (01-06), MINI Convertible (05-08) with 5 speed manual transmission



C 3pc 12-Point Impact Hub Nut Socket Set Model No. SX051

Heavy-duty, high quality, 12-point, Chrome Molybdenum impact sockets suitable for use with any 1/2" Sq drive impact tool. Blackened finish for added corrosion resistance. Tool suitable for hub nut applications where high torque is required. Supplied in storage case.

Drive:	1/2" Sq
Contents:	30, 32, 36mm



F 3/4" Sq Drive Rear Differential Pinion Flange Tool - Land Rover Freelander 2 Model No. VSE9540

2-Piece kit essential for removal/installation of the pinion drive nut. Contains 12-sided pinion nut holding tool and splined socket. Suitable for post 2006 Land Rover Freelander 2.

H Clutch Alignment Tool - Land Rover Model No. VS713

Double end tool for aligning the clutch plate when fitting the clutch cover on Land Rover vehicles.

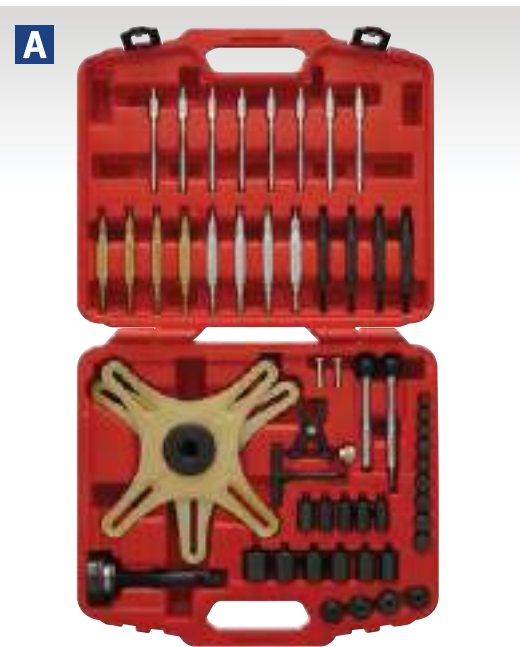
OEM Tools:	308-419, 303-1096
Applications:	
Land Rover:	2.4 TD4 Defender (06-13), 2.7 TDV6 Discovery (04-10)
Range Rover:	2.7 TDV6 Sport (05-09)



J Clutch Alignment Tool - BMW Mini 6-Speed Model No. VS717

For clutch plate alignment on 6-speed gearboxes. Engine codes: Petrol; W11, B16A, Diesel; W17, D14. 5-speed applications use Model No. VS716.

OEM Tool:	212210
Applications:	BMW Mini One D (01-06), Mini Cooper S (01-06), Mini Cooper S JCW (01-06) and Mini Convertible (05-08)



A SAC Clutch Alignment Tool
Model No. VS011A

Necessary for pre-tensioning self-adjusting clutches before removal or installation. Prevents plate distortion which may prevent the clutch from disengaging or cause dragging. Features a refitting tool, allowing the clutch adjuster to be wound back. Also includes a selection of clutch plate and spigot alignment adaptors. Supplied in storage case.

Clutch Plate Adaptors: Ø17.9, 18.9, 19.9, 20.9, 21.9, 22.9, 23, 25.9, 27.9, 31.9, 33.9mm

Spigot Adaptors: Ø13.9, 14.9, 15.9, 16.9, 17.9, 18.9, 19.9, 20.9, 21.9mm

Assembly Flywheel Threads: Ø6 x 1, 7 x 1, 8 x 1.25mm



B Dual Mass Flywheel Measuring Tool
Model No. VS019

Essential tool designed to test the condition of a Dual Mass Flywheel (DMF). Use with the DMF fitted to the vehicle and with the gearbox/clutch removed. Fitting a new clutch with a faulty DMF may result in early failure of the new clutch. Results must be checked against the vehicle manufacturer's specification.

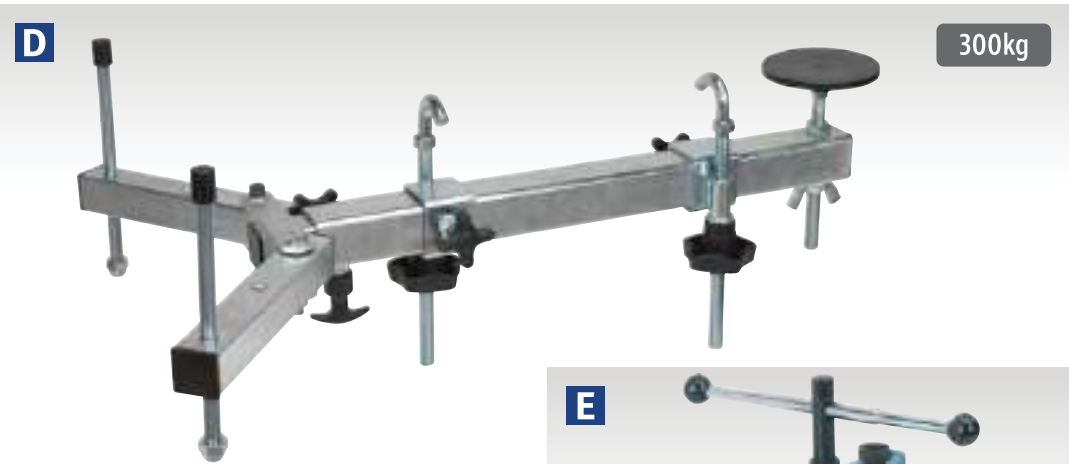
Contents: Slotted Bar, Slotted Bar Adaptors (x6), Angular Torque Gauge, DTI Gauge, DTI Gauge Bracket including Mounting Plate and Retaining Bolt, Ring Gear Locking Tools (x2)

Slotted Bar Adaptor Sizes: M6 x 1, M7 x 1, M8 x 1.25mm (2 of each)



C DSG Clutch Servicing Kit - VAG
Model No. VS0122

Essential tool for DSG clutch removal and installation used on VAG 6/7-speed gearboxes. Kit includes clutch support device, puller, gauge block, thrust piece and assembly lever. Supplied in storage case.



D Under Vehicle Engine/Gearbox Support
Model No. VS0110

Designed to support the engine or gearbox when mountings or gearbox are being removed. Ideal when replacing clutches or timing belts. Removes the need for using a transmission jack or engine support beam. Fully adjustable, making the unit suitable for most transverse and in-line configurations. Fitting is by suspending underneath the vehicle by support hooks and counter-balanced against the underside of the vehicle.

Width:	560mm
Minimum/Maximum Length:	645/965mm
Capacity:	300kg
Weight:	10kg



E Self-Adjusting Clutch Tool
Model No. VS011

High quality die-cast aluminium tool. Suitable for pre-tensioning clutch plate combination prior to re-assembly.

Spigot Adaptors: Ø21/23mm
Assembly Flywheel Thread: Ø8 x 1.25mm



F Dual Clutch Removal/Installation Kit - Ford
Model No. VS3075

Clutch removal/refitting tool kit designed for Ford Dual Clutch systems. Suitable for DPCS6 and 6DCT250 6-speed gearboxes fitted to Fiesta, Focus and Ecosport vehicles. Equivalent to OEM 307-675. Supplied in storage case.

Applications: Fiesta 08 on, Focus 2012 on, B-Max 08 on, Ecosport 13 on



A Pneumatic Brake & Clutch Pressure Bleeder Kit
Model No. VS0204

One-person pressure brake and clutch bleeding system suitable for the professional workshop. Low pressure tank (20-40psi) can be pre-charged with compressed air, making the unit fully portable. Large reservoir means reduced risk of running the system dry during bleeding process or complete fluid change. Suitable for use on ABS systems. Features a long delivery hose for operation with a low level ramp and long reach handle for easy mobility. Supplied with a range of European, Japanese and US vehicle adaptors.

Maximum Air Supply:	40psi
Air Consumption:	4.5cfm
Tank Capacity:	5L
Inlet Size:	1/4"BSP
Hose Length:	3.7m



C Pneumatic Brake & Clutch Pressure Bleeder Kit
Model No. VS0204A

One-person pressure brake and clutch bleeding system suitable for the professional workshop. Low pressure tank (20-40psi) can be pre-charged with compressed air, making the unit fully portable. Large reservoir means reduced risk of running the system dry during bleeding process or complete fluid change. Suitable for use on ABS systems. Features a long delivery hose for operation with a low level ramp and long reach handle for easy mobility. Supplied with Ø45mm cap with 90° angled connector which is suitable for most European models. For other applications, order optional Brake Reservoir Cap Ø45mm Straight Connector - Model No. VS820SA, Universal Adaptor - Model No. VS820UA or Brake & Clutch Bleeder Cap Set - Model No. VS0204B.

Maximum Air Supply:	40psi
Air Consumption:	4.5cfm
Tank Capacity:	5L
Inlet Size:	1/4"BSP
Hose Length:	3.7m



B 12V Brake & Clutch Pressure Bleeding Kit
Model No. VS0207

Powered by the vehicle's own 12V battery. Allows single-handed bleeding of the vehicle's brake or clutch system and unit is fitted with a long, high pressure hose. Bleed pressure is closely controlled up to 2.5bar - suitable for most vehicles (even those with ABS). Unit fitted with auto-shut-off device to prevent the system running dry and is supplied with a variety of European, Japanese and US vehicle adaptors, bleed bottle and fluid extractor.

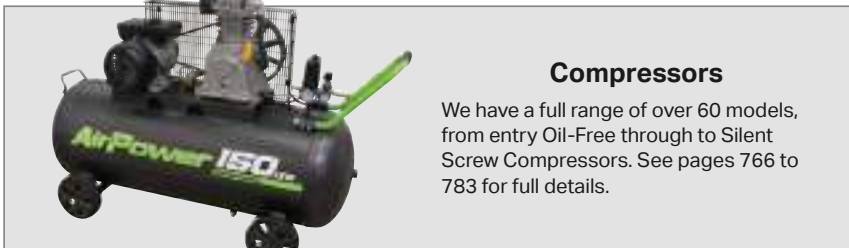
Maximum Pressure:	2.5bar
Supply:	12V
Capacity:	2L
Cable Length:	4m
Hose Length:	5m
Machine Weight:	7.9kg



D Brake & Clutch Bleeder Cap Set
Model No. VS0204B

Comprehensive set of brake and clutch reservoir bleed caps, supplied as standard with Model No. VS0204 and VS0207. Also compatible with Model No. VS820, VS821 and VS0204A, offering greater coverage of European, Japanese and US manufacturers.

Caps:	
Threaded Ø45mm:	Most European Manufacturers,
Bayonet:	Chevrolet, Chrysler, Ford, GM, Honda, Hummer, Hyundai, Jeep, Lexus, Mazda, Mitsubishi, Nissan, Subaru, Toyota,
Rubber Cones:	Universal; 30-55, 47-84mm



Compressors

We have a full range of over 60 models, from entry Oil-Free through to Silent Screw Compressors. See pages 766 to 783 for full details.



A 1L Pneumatic Vacuum Brake & Clutch Bleeder
Model No. VS020

Simple, one-person operation using standard workshop air supply (90-120psi). Quick, clean and efficient. Does not require specialised brake reservoir caps. Draws fluid from the bleed nipple enabling either bleeding or full replacement of fluid in system.

Maximum Air Supply:	120psi
Air Consumption:	180L/min
Tank Capacity:	1L
Inlet Size:	1/4"BSP



D 2L Workshop Vacuum Brake & Clutch Bleeder
Model No. VS0203

Easy, fast, one-person operation using workshop air supply (90psi). Does not require vehicle-specific reservoir caps. Draws fluid from the bleed screw enabling either bleeding or full replacement of fluid in system. Operation automatically stops when 2L tank is full, preventing spillage. Includes reservoir replenishing bottle, instructions and airline quick connector.

Maximum Air Supply:	90psi
Tank Capacity:	2L
Inlet Size:	1/4"BSP



G Motorcycle Bleed Adaptor
Model No. VS020/A

Suitable for bleeding twin calipers commonly found on motorcycles. For use with Model No's VS020 and VS021 Vacuum Brake Bleeders.



B Pneumatic Vacuum Brake & Clutch Bleeder Kit with Replenishment System
Model No. VS021

Utilises same vacuum unit as Model No. VS020. Includes reservoir top-up kit.

Maximum Air Supply:	120psi
Air Consumption:	180L/min
Tank Capacity:	0.75L
Inlet Size:	1/4"BSP



E Brake & Clutch Bleeder
Model No. VS1205

One-person brake and clutch bleeder. Bleeding requires no external power source - simply fill and pump. Bottle holds 400ml of hydraulic fluid. Design incorporates pressure control valve set at 20psi. Pressure range makes unit suitable for use with ABS systems. Fitted with Ø45mm cap which is suitable for most European models.

Capacity:	400ml
Maximum Pressure:	1.4bar(20psi)



H Brake Bleeder Set with Container
Model No. VS0201

Composite collection bottle with magnetic locating pad. Supplied with tube and connectors.

Capacity:	100ml
-----------	-------



C 5L Workshop Vacuum Brake & Clutch Bleeder
Model No. VS0202

One-person operation using standard workshop air supply (90-120psi). Professional, quick, clean and efficient. Large capacity for the busy workshop. Draws fluid from the bleed nipple enabling either bleeding or full replacement of fluid in system. Vacuum gauge for precise application. Separate cap for easy emptying. Long lasting silicon rubber hose for ultra flexibility. Includes reservoir top-up kit and adaptors.

Maximum Air Supply:	120psi
Air Consumption:	180L/min
Tank Capacity:	5L
Inlet Size:	1/4"BSP



F Automatic Brake & Clutch Bleeder
Model No. VS0205

Fast, easy and effective bleeding of brakes and clutch using air from tyre. Innovative design incorporates valve for control of air pressure, extra-long air hose for use with larger vehicles and magnetic reservoir base to prevent accidental spillage. Suitable for use with ABS systems. Supplied with range of common adaptors.

Adaptors: Ø25mm Cap & Seal for Lockheed Systems, Ø27mm Cap & Seal for VAG, Ø44/45mm Cap & 2 Seals (Thin for Ø44mm, Thick for Ø45mm) for Metal Girling & ATE Systems, Ø46mm Cap & Seal for some Girling Systems

Capacity:	500ml
Maximum Pressure:	1.4bar(20psi)



A 2.5L Brake & Clutch Bleeding System
Model No. **VS820**

One-person brake and clutch bleeding the professional way. Bleeding requires no external power source - simply fill and pump. Reservoir holds 2.5L of hydraulic fluid - flush the entire system with one fill, without the risk of running the reservoir dry. Pressure range makes unit suitable for use with ABS systems. Fitted with Ø45mm cap with 90° angled connector which is suitable for most European models. For other applications, order optional Brake Reservoir Cap Ø45mm Straight Connector Model No. VS820SA, Universal Adaptor - Model No. VS820UA and Bleeder Cap Set - Model No. VS0204B.

Capacity: 2.5L



E 3L Pneumatic Brake Bleeder
Model No. **VS0215**

One-person professional pneumatic brake bleeding tool. Pressure range makes unit suitable for use with ABS systems. Reservoir holds 3L, plenty to flush a whole system without the risk of running dry. Two drainage method options allow you to drain brake fluid via the brake caliper with the bottle option for replenishing or brake reservoir pressurising for full brake bleed.

Inlet Size: 1/2" BSP
Maximum Air Supply: 114psi
Tank Capacity: 3L



B 1.5L Pneumatic Brake & Clutch Bleeder
Model No. **VS821**

Professional one-person brake and clutch bleeder that uses air from the vehicle tyre. Reservoir holds 1.5L of hydraulic fluid. Flush the entire system with one fill without the risk of running the reservoir dry. Maximum pressure of 30psi makes the unit suitable for ABS systems. Features a fluid shut-off valve to prevent accidental spillage and air pressure release valve. Fitted with Ø45mm cap with 90° angled connector which is suitable for most European models. For other applications, order optional Brake Reservoir Cap Ø45mm Straight Connector Model No. VS820SA, Universal Adaptor - Model No. VS820UA and Bleeder Cap Set - Model No. VS0204B.

Maximum Pressure: 30psi
Capacity: 1.5L



F 500ml Brake Bleeding Bottle
Model No. **VS0212**

Collection bottle with wide base for added stability. Features a one-way valve to reduce air re-entering the system, clear hose to evaluate the condition of the fluid and presence of air, vent located in the lid and drain cap for simple emptying of old brake fluid. Includes two hanging hooks.

Capacity: 500ml
Hose Length: 1m



C Ø45mm Brake Reservoir Cap Straight Connector
Model No. **VS820SA**

For use in conjunction with Model No's VS820, VS821 & VS0204A Brake & Clutch Bleeding Systems. Brake reservoir cap Ø45mm with straight coupling.



D Brake & Clutch Bleeding System Universal Adaptor
Model No. **VS820UA**

Universal reservoir cap for Model No's VS820, VS821 & VS0204A Brake & Clutch Bleeding Systems. Supplied with quick connect.



G Gravity Brake Bleeder Kit
Model No. **VS0209**

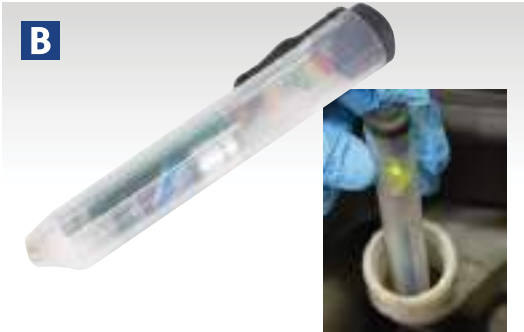
Patented design maintains the fluid level in the vehicle's brake or clutch fluid reservoir during the bleeding process. No electricity or compressor required, ideal for use on a vehicle lift. Uses the standard 500ml brake fluid bottle in which fluid is supplied, reducing the possibility of contamination. Fast, simple-to-use and features on/off flow valve.





A Pocket Brake Fluid Tester
Model No. VS0274

Integrated circuitry checks moisture content of fluid by measuring the electrical resistance and comparing it with acceptable limits. Easy calibration check using water. Five LED read-out. Just switch on and insert probe for immediate result. Works on all grades of brake fluid. Powered by one AAA battery (supplied).



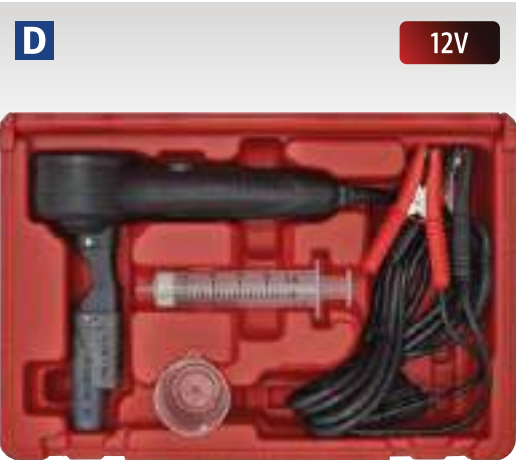
B Pocket Brake Fluid Tester
Model No. VS0272

Integrated circuitry checks moisture content of fluid by measuring the electrical resistance and comparing it with acceptable limits. Easy calibration check using water. Three LED read-out. Just switch on and insert probe for immediate result. Red LED warns when battery is low and needs replacing. Powered by one AAA battery (supplied).



C Brake Fluid Tester
Electrolytic
Model No. VS027

Comparative electrolytic type tester. Checks moisture content of fluid by resistance to electric current. Easily calibrated using new brake fluid. Audible test cycle with three LED read-out. Just insert probe and press button for immediate result. Works on DOT 3, 4 and 5.1 specification fluids. Powered by a 9V battery (not included).



D Brake Fluid Tester - Boil Test
Model No. VS0275

The approved method of testing the water content of brake fluid. Just 3% of moisture can lower the brake fluid boiling point by over 100°C. The best way to detect this small water content is to measure the boiling point of the fluid. The unit incorporates a heater element, LCD display and a power lead for use on 12V DC power supplies. Works on DOT 3, 4, 5 and 5.1 specification fluids. Supplied in storage case with full operating instructions.



E 1L Chemical Sprayer
with Viton® Seals
Model No. TP01

Ideal for use with some brake cleaners, detergents, traffic film remover, penetrating oils and weed killer. Adjustable nozzle enables easy and direct application of liquid exactly where it is required. Fitted with Viton® seals. Compatibility document available.



F Premier Pressure Industrial HC Sprayer
with Viton® Seals
Model No. SCSG06

See page 1325 for full details.

Working Capacity:	1L
Total Capacity:	1.5L



G - H Pressure Solvent Sprayers
with Viton® Seals
Model No. SEE BELOW

See page 1325 for full details.

Model No:	Capacity:
G SCSG02	1L
H SCSG03	1.5L



I - J Premium Pressure Solvent Sprayers
with Viton® Seals
Model No. SEE BELOW

See page 1325 for full details.

Model No:	Capacity:
I SCSG04	1L
J SCSG05	1.5L



A Brake Disc Run-Out Kit
Model No. VS0290

Check for ball joint wear and brake disc run-out quickly and easily. Locking pliers secure to any convenient position enabling DTI gauge to be placed against brake disc. Kit includes Metric calibrated DTI gauge.

Deflection/Travel:	10mm
Graduation:	0.01mm
Shank Size:	8mm



B Air Hammer Impact Driver
Model No. VS0291

Used in conjunction with a standard air hammer at low pressure and 5/16"(8mm) hex bit. Vibration shakes the screw loose doing the hard work for you, while rotation is applied with the handle. Ideal for corroded, countersunk, overtightened and painted screws. No more stripping of screw heads.

Shank Size:	.401" Parker Taper
Bit Size:	5/16"(8mm), Bits not supplied



C Brake & Fuel Pipe Inspection Tool
Model No. VS0210

Features 12 cleaning edges for different sizes and types of pipes. DVSA Compliant.

Applications:	3.5mm (Citroen), 4, 4.75mm, 3/16" Pipes
---------------	---



D 8pc Brake Pad Thickness Gauge
Model No. VS059

Ideal for quickly checking the thickness of the brake pad lining. Colour-coded blades fit between the disc and brake pad backing plate. Dual marked in Metric and Imperial.

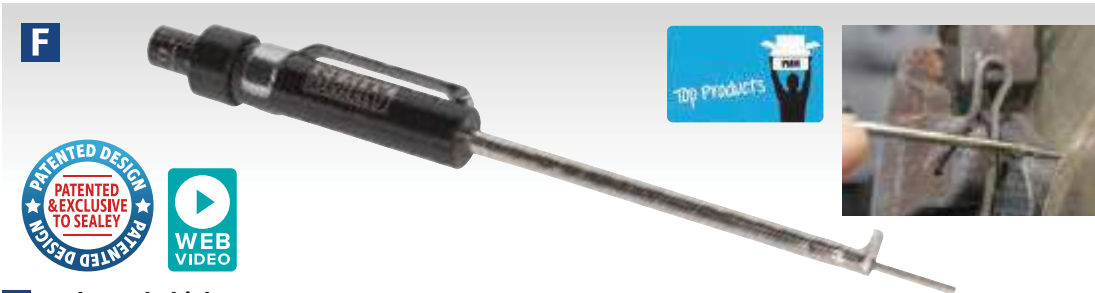
Blade Sizes:	
Red:	2, 3mm(0.0787, 0.1181")
Yellow:	4, 5, 6mm(0.1575, 0.1969, 0.2362")
Green:	8, 10, 12mm(0.3150, 0.3937, 0.4724")



E Ratchet Brake Piston Tool
Model No. VS0213

Designed for floating calipers fitted with single or twin piston and also for fixed calipers fitted with twin or quad pistons. Ratchet mechanism provides speed and versatility, saving time and money.

Maximum Spread:	73mm
-----------------	------

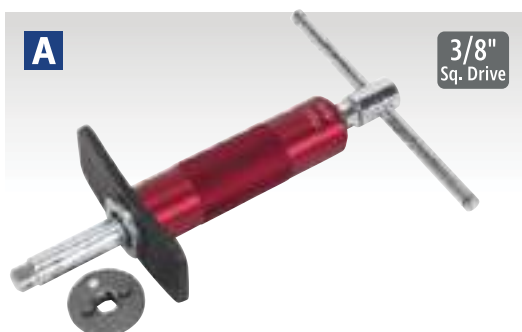


F Brake Pad Thickness Gauge
Model No. VS058

Time-saving tool and essential for any garage. Measures the brake pad lining on the vehicle without removing the road wheel. Slim design enables the tool to locate the rear of the pad backing plate, allowing the probe to measure the distance between the underside of the backing plate and brake disc. Suitable for both internal and external brake pads. Features calibration line, plus minimum 1.5mm pre-MOT check mark. Designed for brake pads that have a normal 6mm thick backing plate (Class IV, V).

Range:	1.5-13mm
--------	----------





A Spring Action Brake Piston Wind-Back Tool
Model No. VS0246

Incorporates a strong internal spring which applies a constant pressure to the rear caliper piston, whereas a traditional tool uses a left or right-handed screw thread. Suitable for use on either left or right-handed wind-back calipers. Fitted with 3/8" Sq. Drive but also supplied with standard 2-pin magnetic adaptor, making the tool suitable for the other adaptors in the Sealey range.

Pin Size:	Ø6mm
Distance Between Pin Centres:	13mm



B 4pc Brake Piston Wind-Back Tool Kit
Model No. VS0240

Kit consists of adaptors with thrust bolt assembly and reaction plate suitable for push-back and wind-back brake pistons. Helps prevent damage to pistons and seals.

Pin Size:	Ø6mm
Distance Between Pin Centres:	19, 33mm



C Left/Right-Handed Brake Piston Wind-Back Tool
Model No. VS0244

Unique double end design for retracting left and right-handed rear calliper pistons.

Pin Size:	Ø6mm
Distance Between Pin Centres:	13mm



D Brake Wind-Back Tool - Low Profile - VAG
Model No. VS0245

Special low profile design for VAG vehicles.

Applications:

Audi: A3, A4, A5, A6, A8, S3, S4, S5, S6, S8, RS4, RS6, RS8
VW: Santana, Jetta, Bora, Golf, Passat, Lavida, New Beetle, Phaeton, Polo, Magotan, Sagitar, Scirocco, Touareg, Touran, Tiguan, Eos, Multivan, Caravelle, Sharan



E Disc Brake Piston Spreader Tool
Model No. AK711

Chemically blackened steel spreader plates. An essential tool for retracting the brake piston to allow insertion of new brake pads. Suitable for most ATE, Bendix, Delco and Girling calipers.

Maximum Spread:	90mm
-----------------	------



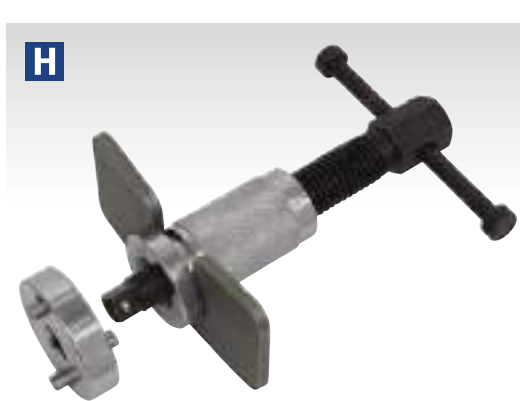
F 5pc Brake Piston Wind-Back Tool Kit
Model No. VS0211

Innovative dual purpose tool designed to push and wind-back brake calipers. Fast and simple, one-handed use. Lightweight and durable materials enable the tool to work on most common caliper designs. Suitable for use on either left or right-handed (wind-back) calipers. Supplied with four common adaptors but compatible with all 2-pin magnetic adaptors in the Sealey range, making the tool truly versatile.



G Left-Handed Brake Piston Wind-Back Tool with Double Adaptor
Model No. VS0247

Double end tool. Enables retraction of the piston on rear brake calipers allowing new brake pads to be installed. Available in left or right-hand threading models.



H Brake Piston Wind-Back Tool with Double Adaptor
Model No. VS024

Double end tool. Enables retraction of the piston on rear brake calipers allowing new brake pads to be installed.

Pin Size:	Ø6mm
Distance Between Pin Centres:	22, 33mm





A 21pc Brake Piston Wind-Back Tool Kit
Model No. VS0282

Suitable for push-back and wind-back brake pistons. Includes left and right-handed thrust bolt assemblies, reaction plate, hex bits and adaptors, and 3-pin VAG adaptor.

Hex Bits: 10, 12mm



D 29pc Air Operated Brake Wind-Back Tool Kit
Model No. VS0286

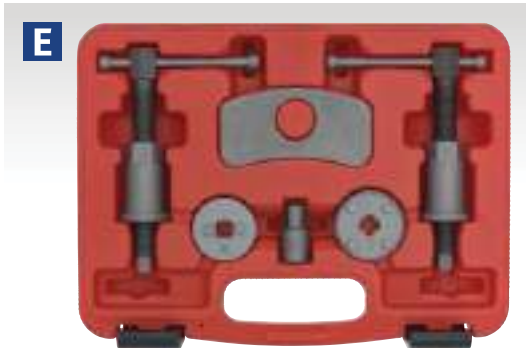
Air operated wind-back tool suitable for left or right-hand wind-back operations. Suitable for push-back and wind-back brake pistons. Includes 3/8\"Sq drive adaptor and 2-pin magnetic adaptor for added flexibility.

Operating Pressure: 90psi



B 30pc Brake Piston Wind-Back Tool Kit
Model No. VS0285

Suitable for push-back and wind-back brake pistons. Includes left and right-handed thrust bolt assemblies.



E 6pc Brake Piston Wind-Back Kit - Ford
Model No. VS0289

Precision made kit, for winding back the rear caliper pistons on selected Ford vehicles. Includes left and right-handed thrust bolt assemblies, reaction plate, two adaptors and hex bit.

Applications: Ford; Focus, Galaxy, Kuga, Mondeo, Scorpio, S-Max, Jaguar; X Type

Hex Bit: 12mm

Adaptors (Pin Diameter x Pin Centres):

3/8\"Sq Drive 2-Pin:	Ø5.5 x 19mm
3/8\"Sq Drive 4-Pin:	Ø6 x 32mm



J Rear Brake Piston Wind-Back Adaptor - VAG
Model No. VS02821

Adaptor enables retraction of the piston on rear brake calipers when used in conjunction with a traditional wind-back tool with a 2-pin adaptor mounting. 3-pin design suitable for VAG vehicles.

Pin Size: Ø3mm

Mounting Pin Size: Ø6mm

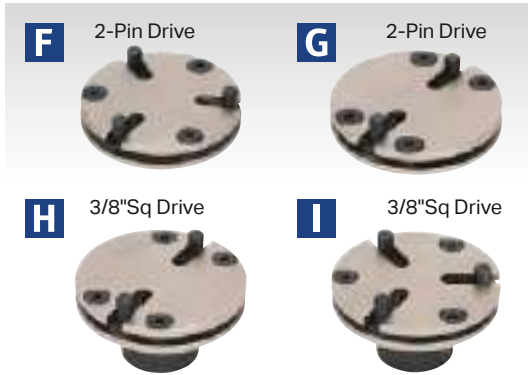
Distance Between Mounting Pin Centres: 20mm

Applications: VS0211, VS0240, VS0243, VS028, VS0282, VS0285, VS0286, VS0287



C 50pc Brake Piston Wind-Back Tool Kit
Model No. VS0287

Suitable for push-back and wind-back brake pistons. Includes left and right-handed thrust bolt assemblies.



F - I Adjustable Brake Wind-Back Adaptors
Model No. SEE BELOW

Adjustable 2-pin and 3-pin brake wind-back adaptors suit a wide range of vehicle applications. 3-Pin design suitable for Electronic Park Brake (EPB) and VAG vehicles. 2-Pin drive compatible with Model No's VS028, VS0282, VS0285, VS0287, VS0286, VS0243 and VS0211. 3/8\"Sq Drive compatible with Model No's VS024, VS0244 and VS0286.

Model No:	Pins:	Drive:
F VS326	3	2-Pin
G VS327	2	2-Pin
H VS328	2	3/8\"Sq
I VS329	3	3/8\"Sq



K Brake Piston Cube
Model No. VS039

Five possible pin configurations fit US and European applications. Use with 3/8\"Sq drive ratchet wrench and extension bar.

Warning: Not for use with impact type ratchets.



A Brake Pipe Spanner Model No. VS0348

Manufactured from Chrome Vanadium steel with anti-slip finish.

Sizes: 10, 11mm



C Flexi-Head Ratchet Brake Pipe Spanner Model No. VS0347

Manufactured from high quality stainless steel with a fully polished satin finish. Features double end 72-tooth ultra-smooth ratchet with flexi-head for limited access applications. Ideal for most brake pipe fittings.

Sizes: 10, 11mm



G Brake Disc Run-Out Kit Model No. VS0290

Check for ball joint wear and brake disc run-out quickly and easily. Locking pliers secure to any convenient position enabling DTI gauge to be placed against brake disc. Kit includes Metric calibrated DTI gauge.

Deflection/Travel: 10mm
Graduation: 0.01mm
Shank Size: 8mm



B 2pc Brake Pipe Ratcheting Spanner Set Model No. VS0356

Manufactured from Chrome Vanadium steel with a fully polished satin finish. Features 72-tooth ratchet with flexi-head for limited access applications and fixed head for initial loosening of the nut. Ideal for most brake pipe fittings.

Sizes: 10, 11mm



D 6pc Brake Service Spanner Set Model No. VS026

Hardened and tempered Chrome Vanadium steel brake spanner set. Chrome plated and mirror finished for corrosion resistance. Fits popular sizes of brake pipes and nipples.

Contents: 1/4"Sq x 10mm Sq, 1/4"Sq x 5/16" Open-End, 8mm Hex x 10mm Hex, 9mm Hex x 11mm Hex, 1/4"Hex x 7mm Hex, 7/16" Open-End x 11/32"Sq



H 3pc Flare Nut Spanner Set Model No. AK600

Drop-forged Chrome Vanadium steel with contoured shafts. Fully hardened, tempered, chrome plated and fully polished for resistance to corrosion. Flare type spanner jaw suitable for most common sizes of compression joint fittings. Three spanners covering six sizes.

Contents: 10 x 11, 13 x 14, 15 x 17mm



E-F Double End Brake Bleeder Spanner Model No. SEE BELOW

Specially designed caliper bleed nipple spanners simplify brake bleeding. Fitted with neoprene rubber seals which stops air being put into the system. Colour-coded for easy size identification.

	E	F
Model No:	VS4511	VS4512
Spanner Sizes:	8 x 9mm	10 x 11mm



I 4pc Ratcheting Brake Pipe Spanner Set Model No. VS0343

Manufactured from hardened and tempered Chrome Vanadium steel with a fully polished satin finish. Unique patented design enables a ratcheting action for quick and efficient work. Ideal for use on brake lines, air conditioning, fuel lines and injection systems. Works on rounded, worn and rusted nuts. Four flexi-end spanners cover eight sizes. Supplied in pouch.

Sizes: 8 x 9, 10 x 11, 12 x 13, 14 x 15mm

A



A Brake Pipe Bender Model No. VS5055

Compact design for bending automotive brake pipes without crushing the pipe walls. Rigid construction makes it suitable for steel pipes. Will bend Ø3, Ø4.75 and Ø6mm (1/8", 3/16" and 1/4") pipe up to 90°.

Capacity: Ø3, 4.75, 6mm (1/8", 3/16", 1/4")

B



B 3-in-1 Automotive Brake Pipe Bender Model No. AK5055

Suitable for most automotive applications. Bends pipe without crushing walls. Will bend Ø6, Ø8 and Ø10mm (Ø1/4", 5/16" and 3/8") pipe up to 180°.

Capacity: Ø6, 8, 10mm (Ø1/4", 5/16", 3/8")

C



C 4-in-1 Automotive Deluxe Pipe Bender Model No. VS0346

Twin handles provide even force for accurate pipe forming. Slender design allows pipes to be shaped in situ. Ideal for aluminium, brass, copper and steel pipe. Contoured vinyl grip handles provide extra comfort and control.

Capacity: 3/16"(4.75mm), 1/4", 5/16", 3/8"

D



D Brake Pipe Bending Pliers Model No. VS0341

Fast, accurate and simple bending of brake pipe - even on the vehicle. Bends 4.75mm and 6mm (3/16" and 1/4") brake pipe up to 90°. Forged steel jaws with anti-corrosion finish. Soft grip handles aid comfort and control.

Capacity: 4.75mm, 6mm (3/16", 1/4")

E



E 4-in-1 Automotive Pipe Bender Model No. VS0344

Twin handle provides even force for accurate pipe forming. Sliding mechanism allows quick adjustment for different sized pipes. Capable of bending pipes in situ. Ideal for aluminium, brass, copper and steel pipe.

Capacity: 3/16"(4.75mm), 1/4", 5/16", 3/8"

F

NEW



F Brake Pipe Bending Tool Model No. VS0507

Vice mounted brake pipe shaping tool, designed for use on automotive applications. Dual stepped sections allow pairing of pipes for correct curvature for uniformed alignment to vehicle. Suitable for 3/16"(4.76mm) cupro-nickel, copper and steel pipe.

Capacity: 3/16"(4.76mm)
Diameter: Ø21, 31.5, 46.5, 61.5, 76.5mm

G

NEW



G Handheld Brake Pipe Bender Model No. VS0375

Provides two sizes of bend for accurate and safe shaping of automotive brake pipes without risk of kinking. Fitted with a 6mm hex slot for ease of holding/turning.

H



H Brake Pipe Straightening Tool Model No. VS0506

Brake pipe straightener designed for use on automotive applications. This unique design is fast and easy-to-use. Suitable for 3/16"(4.76mm) cupro-nickel, copper and steel pipe. Features hole for marker pen.

H



F



Vice not included.



A On-Vehicle Micro Brake Pipe Flaring Tool Set Model No. PFT11

Produces accurate automotive SAE and DIN flares on 3/16" and 4.75mm pipes respectively. Lightweight body makes it ideal for splicing in replacement sections of brake pipe on-vehicle. Suitable for steel pipes. Supplied in storage case.

Dies: 3/16" SAE, 4.75mm DIN



B On-Vehicle Micro Brake Pipe Flaring Tool Model No. PFT12

Produces accurate automotive SAE flares on 3/16" pipes. Lightweight body makes it ideal for splicing in replacement sections of brake pipe on-vehicle. Suitable for copper, cupro-nickel and steel pipes.

Dies: 3/16" SAE



C 2pc Brake Pipe Clamp Set Model No. VS0357

Pair of clamps designed to aid in the shaping and bending of brake pipes. Small body is suitable for on-vehicle applications. For use with 4.75mm(3/16") and 1/4" brake pipe.

Pipe Sizes: 4.75mm(3/16"), 1/4"



D Brake Pipe Flaring Tool Kit Model No. AK5063

Suitable for producing single and double flares on copper tubing. Compact design with integral flare press and locking-grip, plier style pipe clamp make this tool particularly suitable for on-vehicle use.

Dies: 3/16", 1/4", 5/16", 3/8", 1/2" SAE



E On-Vehicle Brake Pipe Flaring Tool Model No. PFT08

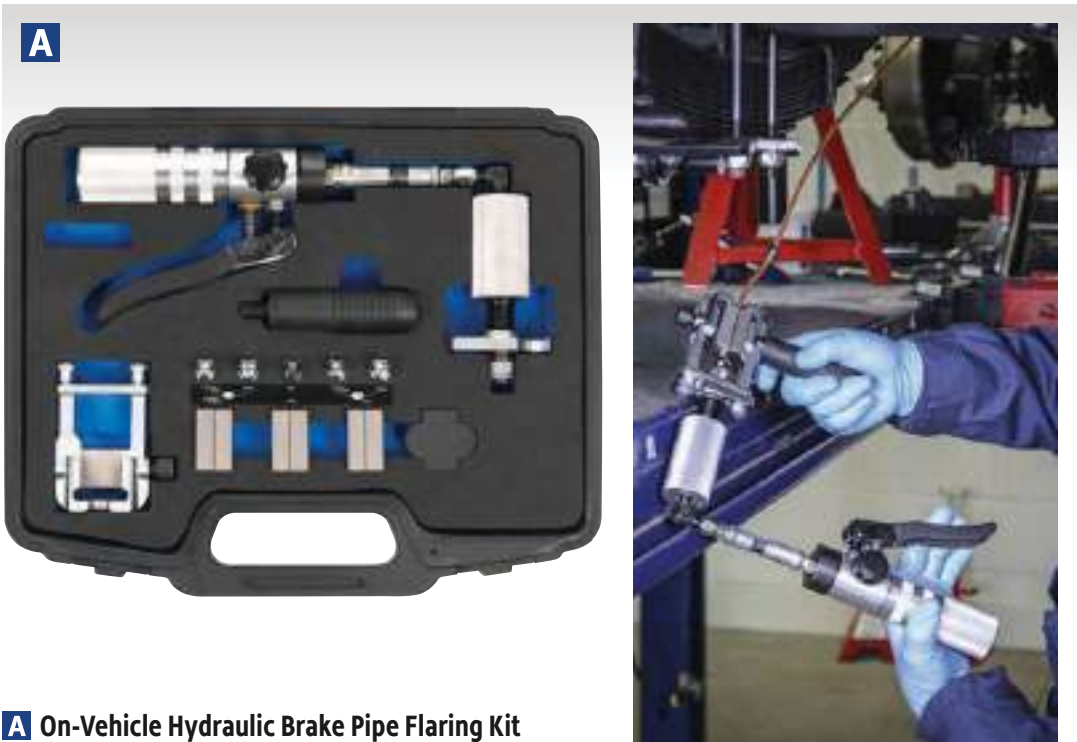
Produces accurate automotive SAE and DIN flares on common sizes of brake pipe. Small body is suitable for on-vehicle applications. Ideal for splicing in replacement sections of brake pipe for repair or after accident damage. Use with ratchet and socket or standard spanner.

Dies: 3/16" SAE, 4.75mm DIN



F 500g Red Rubber Grease Tin Model No. SCS110

Lubricating red rubber grease, ideal for use on brake assemblies.



A On-Vehicle Hydraulic Brake Pipe Flaring Kit
Model No. **PFT15**

Produces accurate automotive SAE and DIN flares on 3/16", 4.75mm, 5mm and 6mm brake pipes. Ideal for splicing in replacement sections of brake pipe. Powerful, lever operated hydraulic ram makes it suitable for steel pipes. Features quick release chuck, twist lock die block housing for fast assembly and rotating hydraulic pipework to give easy-access in confined spaces.

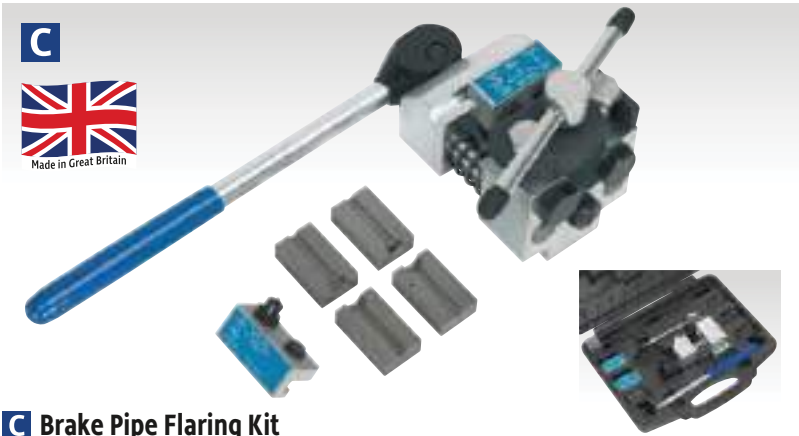
Dies: 3/16", 5mm, 6mm SAE, 4.75mm, 5mm, 6mm DIN



B On-Vehicle Hydraulic Brake Pipe Flaring Tool Kit
Model No. **PFT10**

Produces accurate automotive SAE and DIN flares on 3/16" and 4.75mm pipes respectively. Small body makes it ideal for splicing in replacement sections of brake pipe. Features a hydraulic ram which also makes it suitable for steel pipes. Supplied in storage case.

Dies: 3/16" SAE, 4.75mm DIN



C Brake Pipe Flaring Kit
Model No. **PFT/02**

Simple and accurate production of automotive type double flares. Cam-action body fits into bench vice. Supplied with 3/16" SAE and 4.75mm DIN dies for most popular flares. Other sizes available on request. Suitable for steel pipes and supplied in storage case with die listing.

Dies: 3/16" SAE, 4.75mm DIN
Clamp Blocks: 3/16" SAE, 4.75mm DIN



D Brake Pipe Flaring Kit - Turret Type
Model No. **PFT07**

Produces accurate automotive double flares on most common sizes of brake pipe. Cam-action body mounts in bench vice for ease of use. Includes dies and clamp blocks for forming most popular flares. Optional 3/8" clamp block available. Supplied in storage case.

Dies: 3/16", 1/4", 5/16", 3/8" SAE, 4.75, 8mm DIN
Clamp Blocks: 3/16", 1/4", 5/16", 4.75mm
Optional 3/8" Clamp Block: **PFT07.04**



Brake Pipe Copper Tubing
See page 1296 for more details.

E 200pc Brake Pipe Nut Assortment
Metric & Imperial
Model No. **AB068BPN**

Pipe Fitting: 3/16", 1/4"
Contents (Approximate Quantity): Ø3/16" Pipe;
3/8"UNF x 24tpi Long Female (x10), M10 x 1mm Short Female (x30), 3/8"UNF x 24tpi Long Male (x10), M10 x 1mm Short Male (x100), M10 x 1mm Long Male (x5), M10 x 1mm Full Thread Male (x15), M10 x 1.25mm Long Male (x5), M10 x 1.25mm Short Male (x5), 3/8"BSF x 20tpi Long Male (x5), M12 x 1mm Part Thread Male (x5), Ø1/4" Pipe; 7/16"UNF x 20tpi Male (x5), 12mm x 1mm Male (x5)





A Mini Pipe Cutter
Model No. AK5050

Die-cast cutter body with heavy-duty HSS hardened cutting wheel. Smooth screw action for clean cutting performance.

Capacity: Ø3-22mm(1/8"-7/8")
Replacement Cutting Wheels: AK50581B (Pack of 2)



B Brake Pipe Cutter
Model No. VS0349

Robust construction with SUJ2 steel cutting wheel. Ideal for copper, cunifer and steel pipes.

Capacity: Ø3-19mm(1/8"-3/4")



C Brake Pipe Cutter
Model No. VS0350

Patented design ensures that the spring mechanism maintains the correct cutting pressure on the pipe at all times. Features a smooth screw action and a nickel-plated blade for increased cutting performance.

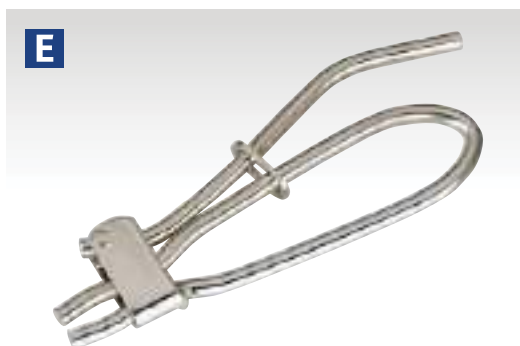
Capacity: Ø4-22mm(3/16"-7/8")
Replacement Cutting Wheels: VS0350B (Pack of 2)



D 4pc Brake & Fuel Hose Pinch Tool Set
Model No. VS0301

Light and compact steel alloy construction for ease of use where space is limited. Rounded jaw edges prevent damage to internal hose reinforcements. Suitable for use on fuel, vacuum and brake hoses.

Clamp Width: 16, 20.5, 30, 67mm



E Brake & Fuel Hose Pinch Tool - Spring Type
Model No. VS034

Completely or partially seals flexible brake, fuel and vacuum lines. Smooth rounded jaw edges prevent damage to internal hose reinforcement. All steel construction with sliding lock collar.



G Brake & Fuel Hose Pinch Tool - Spring Type
Model No. VS0302

One-handed operation, designed to seal flexible brake, fuel and vacuum lines.

J Brake & Fuel Pipe Inspection Tool
Model No. VS0210

Specially designed for the removal of corrosion from brake and fuel pipes for fast and thorough inspection. Features 12 cleaning edges for different sizes and types of pipes. Includes curved cleaning edges for hard-to-reach areas. DVSA Compliant tool.

Applications: 3.5mm (Citroen), 4, 4.75mm, 3/16" Pipes



H Brake & Fuel Hose Pinch Tool - Bar Type
Model No. VS033

Suitable for both brake and fuel lines. Simple, yet effective pinch action with rounded clamp section to prevent damage to hose lining. Metal construction with chromed finish.



F 2pc Brake & Fuel Hose Pinch Tool Set
Model No. VS037

Alloy body with steel clamp arm. Compact design allows use in confined spaces. Rounded jaw edges prevent damage to internal hose reinforcement. Suitable for use on fuel, vacuum and brake hoses.



I Caliper Cleaning File
Model No. VS0391

Designed for removing corrosion, brake dust and road dirt from the brake pad carrier prior to fitting new pads. Double-sided blade features medium and coarse grooves.

Length: 270mm
Medium Groove Pitch: 2mm
Coarse Groove Pitch: 3mm



A - C Composite Hose Pinch Tools
Model No. **SEE BELOW**

Smooth rounded jaw edges prevent damage to internal hose reinforcement. Quick and simple, one-handed use. Made from durable glass reinforced nylon. Material properties include lightweight, non-conductive and high-visibility colour to prevent accidental loss of clamps in the engine bay.

Model No:	Application:	Size:	Maximum Jaw Opening:
A VS030	Brake & Fuel Hoses	Small	18mm
B VS031	Heater Hoses	Medium	36mm
C VS032	Radiator Hoses	Large	67mm



G 3pc Composite Hose Pinch Tool Set
Model No. **VS0300**

Manufactured from heat resistant nylon. Rounded jaw edges prevent damage to internal hose reinforcement. Features locking mechanism for simple one-handed use. Suitable for brake, coolant, fuel and vacuum hoses.

Size:	Application:	Maximum Jaw Opening:
Small	Brake & Fuel Hoses	18mm
Medium	Heater Hoses	36mm
Large	Radiator Hoses	67mm



J - M Pressure Solvent Sprayers with Viton® Seals
Model No. **SEE BELOW**

Suitable for use with most brake cleaners, detergents, traffic film removers, penetrating oils and weed killers. Adjustable nozzle enables a mist to jet pattern, which allows an easy and direct application of liquid exactly where it is required.

Model No:	SCSG02	SCSG03	SCSG04	SCSG05
Capacity:	1L	1.5L	1L	1.5L



D - F 90° Composite Hose Pinch Tools
Model No. **SEE BELOW**

Smooth rounded jaw edges prevent damage to internal hose reinforcement. 90° Angle for use in restricted spaces. Also available as a 3pc kit, order Model No. **VS0400**.

Model No:	Application:	Size:	Maximum Jaw Opening:
D VS0401	Brake & Fuel Hoses	Small	16mm
E VS0402	Heater Hoses	Medium	23mm
F VS0403	Radiator Hoses	Large	38mm



H 2pc 45° Auto Lock Hose Pinch Tool Set
Model No. **VS0500**

Smooth rounded jaws prevent damage to internal hose reinforcement. Auto locking mechanism for one-handed operation. 45° Angle jaw for use in restricted spaces.

Size:	Application:	Maximum Jaw Opening:
Small	Brake & Fuel Hoses	29mm
Large	Radiator & Heater Hoses	42mm



I 3pc Fluid Transfer Syringe Set
Model No. **VS408**

Three multipurpose syringes with Viton® seals, ideal for the transfer of oils/fluids to and from vehicle components such as gearboxes and differentials. Set contains two suction syringes with collection bottles and a traditional suction/pump syringe with fluid shut-off valve. Translucent bodies allow easy inspection of oils and fluids. Accessories include a wall mounting board with colour-coded brackets and syringe clips to distinguish fluid usage.

Syringe Capacity:	350ml
Collection Bottle Capacity:	1L
Fluid Compatibility:	AdBlue®, Antifreeze, Brake Fluid, Diesel, Oil, Water

A**A Commercial Brake Spring Pliers****Model No. CV252**

Designed for the removal/installation of drum shoe retaining springs, found on commercial vehicles.

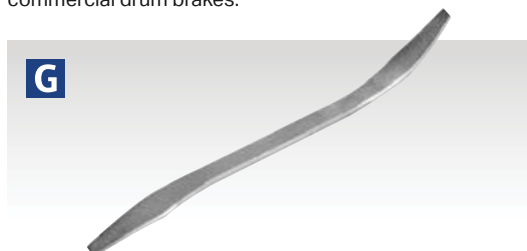
Length: 510mm

B**B Brake Spring Washer Pliers****Model No. VS0362**

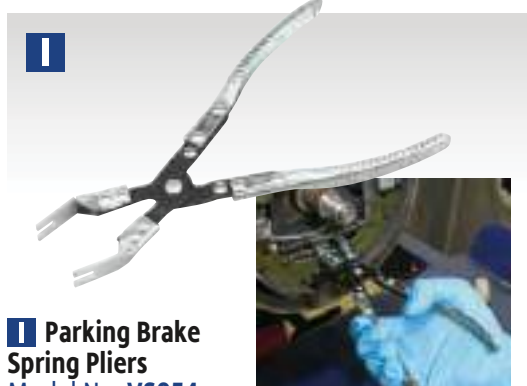
Designed to aid installation and removal of brake shoe retaining spring washers, found in drum brake assemblies. Spring loaded, offset jaws enable easy access to spring washer located behind wheel hubs. Suitable for cars and light commercial vehicles.

D**D Brake Shoe Spring Pliers****Model No. VS035**

Purpose made for the installation and removal of drum shoe return springs. Can also be used for removal/installation of spring from anchor stud. Suitable for most car and light commercial drum brakes.

G**G Brake Shoe Adjuster****Model No. VS0355**

Designed for use on hydraulic braking systems. Adjusts the clearance between the brake drum and shoe. May be used to lever the brake shoe to adjust the mechanical adjuster or through slots in the backing plate to turn the star wheel type adjuster. Suitable for cars and light commercials.

I**I Parking Brake Spring Pliers****Model No. VS054**

Spring loaded pliers for easy removal of brake shoe arm. Compresses spring, eliminating pinched fingers and frees hand for replacing brake shoe lever.

E**E Double End Brake Spring Washer Tool****Model No. VS036**

Designed to aid installation and removal of large and small T-slot anti-rattle washers found in drum brake assembly. Features large viewing cut-away to allow correct alignment of washer. Simple push and twist action.

H**H Brake Shoe Spring Hook Tool****Model No. VS0351**

Manufactured from heat treated alloy steel. Specifically designed for installation and removal of drum brake shoe springs.

J**J Parking Brake Tool - Mercedes****Model No. VS0352**

T-shape design allows easy installation and removal of Mercedes parking brake spring. Suitable for cylindrical and conical shaped springs.

Length: 122mm

C**C 4-in-1 Cylinder Hone Kit****Model No. VS029**

Four cylinder-honing tools in one kit, covering 18mm to 89mm cylinder bores. Suitable for honing and de-glazing car brake and clutch cylinders plus motorcycle, outboard and lawnmower engine cylinders. Adjustable honing pressure and flexible drive shaft. Supplied in storage case.

Leg Configuration:	Bore Sizes:
Large Triple:	Ø32-89mm
Small Triple:	Ø19-68mm
Standard Twin:	Ø18-64mm
Stone Sizes:	3 x 18, 3 x 28, 3 x 50mm

F**2-Leg****F Twin Leg Cylinder Hone****Model No. VS022**

Flexible drive shaft and adjustable cutting control. Fitted with 28.5mm(1-1/8") medium grade stones with adjustable capacity from Ø20 to 64mm. Suitable for small brake cylinders.

Size:	Ø20-64mm
Replacement Stone Sets:	
Model No. VS0221	Medium
VS0222	Fine

K**3-Leg****K Triple Leg Cylinder Hone****Model No. VS023**

Flexible drive shaft and adjustable cutting control. Fitted with 28.5mm(1-1/8") medium grade stones with adjustable capacity from Ø25 to 64mm. Suitable for small and medium sized brake cylinders.

Size:	Ø25-64mm
Replacement Stone Sets:	
Model No. VS0221	Medium
VS0222	Fine



A Brake Caliper Thread Repair Kit

Model No. VS0462

Time and money saving kit for replacing damaged brake caliper threads with a new threaded insert. Features three alignment plates for correct alignment of the insert. Kit includes 7mm hex key, stepped drill, M9 tap and 10 inserts.

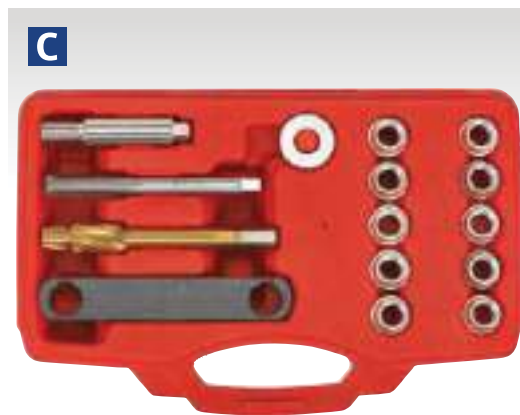
Thread Size: M9 x 1.25mm
Replacement Inserts: VS0462R (Pack of 10)



B 2pc Caliper Support Hooks

Model No. VS0354

Used to hold the brake caliper away from the hub when replacing brake pads. Simply hang the hook onto a suitable suspension component to hold the caliper out of the way. Stops the weight of the caliper damaging the brake hose. Supplied with two brake caliper bolt retaining tags.



C Brake Caliper Thread Repair Kit

Model No. VS0463

Quick and effective method of replacing brake caliper threads using M12 x 1.5mm inserts. Stepped drill allows over sizing of the hole, allowing insert to be fitted. Features one alignment plate for precision drilling for new insert. Kit includes M12 tap, step drill, insert locator, two washers with centre roller bearing and 10 replacement inserts.

Thread Size: M12 x 1.5mm
Replacement Inserts: VS0463R (Pack of 10)



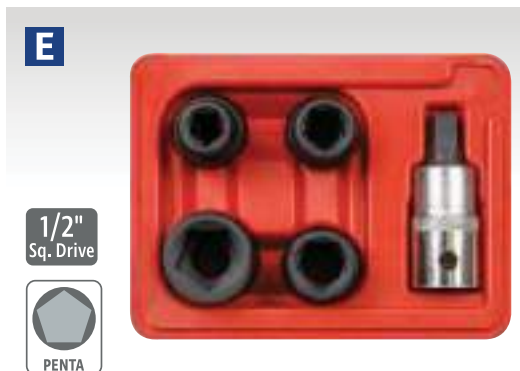
D 3pc 1/2"Sq Drive Brake Caliper Socket Set

Model No. VS0460

Chrome Vanadium steel 1/2"Sq drive sockets. Set contains pentagon sockets and bit suitable for the adjustment and installation of Bendix and Girling brakes.

Applications: Vauxhall; Astra, Zafira, Smart, Bendix; Citroen, Peugeot, Renault, Girling Brake Systems

Contents: Sockets; 14, 19mm, 10mm Socket Bit

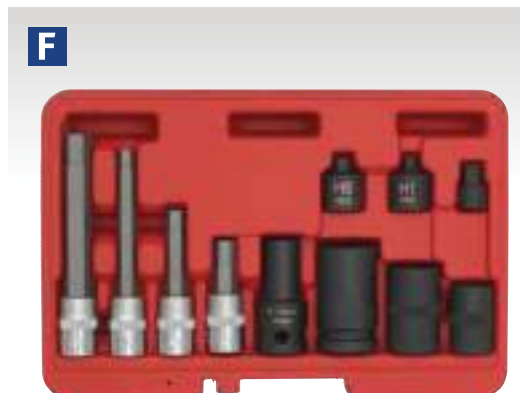


E 5pc 1/2"Sq Drive Brake Caliper Socket Set

Model No. VS0464

Chrome Vanadium steel 1/2"Sq drive sockets. Updated set contains pentagon sockets and bit suitable for the adjustment and installation of Bendix and Girling brakes.

Socket Sizes: 10, 12.5, 14, 19mm
Socket Bit Size: 10mm



F 11pc Brake Caliper Socket Set

Model No. VS0465

Manufactured from Chrome Vanadium steel. Contains a selection of vehicle specific sockets and bits for the removal of brake caliper bolts.

Applications: Audi, BMW, Ford, Mercedes, Porsche, VW
Contents: Hex Bits; 7, 8, 9mm, Hex Socket Bits; 7 x 65, 7 x 92, 9 x 50, 11 x 100mm, Sockets; 10pt Ø11.5mm, 10pt Ø15mm, 10pt Ø20mm, 7pt Ø22mm



G 3/4"Sq Drive ABS Rotor Socket - Jaguar

Model No. SX2066

Specialised socket designed to remove the ABS rotor ring prior to wheel bearing replacement. Specifically engineered to cope with the high torque settings required to remove/refit the rotor ring. Suitable for XJ8 (97-03), XK8 (96on).



H 7mm Angled Head Long Reach Hex Wrench

Model No. AK6572

Long reach Chrome Vanadium Hex wrench with comfortable handle sleeve for extra leverage. Suitable for the removal of brake caliper fasteners.



I 7mm 1/2"Sq Drive Long Hex Key Socket Bit

Model No. AK657

Satin finish Chrome Vanadium socket with knurled ring. S2 Steel Hex shaft. Suitable for the removal of brake caliper fasteners.

Warning: Not for use with impact type wrenches.



A 3/8" Sq Drive 10mm Brake Caliper Socket 10-Point

Model No. **VS0983**

Suitable for VAG vehicles such as Porsche, VW Touareg, Audi Q7 etc. 3/8" Sq drive x 10mm socket with 10-point profile. Manufactured from Chrome Molybdenum with a black phosphate finish.

Applications: Porsche, VW Touareg, Audi Q7



B 1/2" Sq Drive 20mm Brake Caliper Socket 10-Point

Model No. **VS0984**

Suitable for VAG vehicles such as Audi A8, S6 and Porsche Cayenne. 1/2" Sq Drive x 20mm socket with 10-point profile. Manufactured from Chrome Molybdenum with a black phosphate finish.

Applications: Audi A8, S6 and Porsche Cayenne.



C 1/2" Sq Drive 14mm Brake Caliper Socket 7-Point

Model No. **VS0985**

Suitable for VAG vehicles such as Audi Q7, S4. 1/2" Sq drive x 14mm socket with 7-point profile. Manufactured from Chrome Molybdenum with a black phosphate finish.

Applications: Audi Q7, S4



D 1/2" Sq Drive 20mm Brake Caliper Socket 7-Point

Model No. **VS0986**

Suitable for VAG vehicles such as Audi S5. 1/2" Sq Drive x 20mm socket with 7-point profile. Manufactured from Chrome Molybdenum with a black phosphate finish.

Application: Audi S5



E 1/2" Sq Drive M14 Spline Bit Brake Caliper Socket

Model No. **VS0987**

Specialised socket designed for brake calipers. Suitable for VAG vehicles such as VW Passat, Audi A3. Manufactured from Chrome Molybdenum with a black phosphate finish.

Applications: VW Passat, Audi A3



F 1/2" Sq Drive 11mm Hex Brake Caliper Socket

Model No. **VS0988**

Suitable for brake caliper bolts found on Ford, Mercedes and Volvo vehicles. Manufactured from Chrome Molybdenum with a black phosphate finish.

Applications: Ford, Mercedes, Volvo



G 1/2" Sq Drive H9 Brake Caliper Socket

Model No. **VS0989**

Specialised socket designed for brake calipers. Suitable for Mercedes, BMW and Jaguar vehicles. Manufactured from Chrome Molybdenum with a black phosphate finish.

Applications: Mercedes, BMW, Jaguar



H 1/2" Sq Drive 15mm Brake Caliper Socket 10-Point

Model No. **VS0990**

Suitable for VAG vehicles such as Audi Q7, S8, Porsche Macan, Cayenne, Cayman etc. 1/2" Sq drive x 15mm socket with 10-point profile. Manufactured from Chrome Molybdenum with a black phosphate finish.

Applications: Audi Q7, S8, Porsche Macan, Cayenne, Cayman



I 3/8" Sq Drive 8mm Brake Caliper Socket, 11-Point Profile

Model No. **VSE0490**

Suitable for Knorr-Bremse SB, SK and SN brake calipers. Popular applications include Bova, DAF, Foden, MAN, Mercedes-Benz, and Scania. Also used on BPW and SAF trailers. Manufactured from Chrome Vanadium with black phosphate finish.



J 1L Pneumatic Vacuum Brake Bleeder

Model No. **VS020**

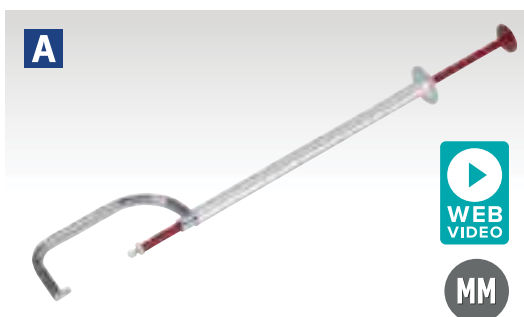
See page 544 for details.



K 3L Pneumatic Brake Bleeder

Model No. **VS0215**

See page 545 for details.

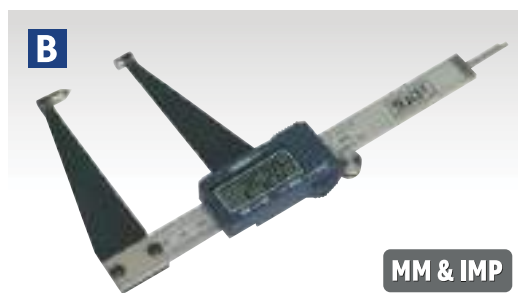


MM

A 0-45mm Brake Disc Calliper Model No. VS0571

For quick and accurate measurement of brake disc thickness. Long body design, allows use on some vehicles without the need to remove the wheel. Spring action plunger, allows quick operation. Suitable for motorcycles, cars and commercial vehicles. Metric scale with 1mm graduations.

Range:	0-45mm
Length:	392mm



MM & IMP

B 100mm/4" Digital Brake Disc Caliper Model No. VS0561

Hardened and tempered stainless steel gauge. 11mm High figures in LCD display for ease of reading. Metric or Imperial read-out with 'Hold' function. Zero setting control allows for comparative measurement. Includes serial port connection for computer interface. Supplied in storage case.

Range:	0-100mm(0-4")
Resolution:	0.01mm(0.0005")
Accuracy:	±0.02mm(0.001")
Battery:	SR44 - 1.5V (supplied)



MM

C 0-56mm Brake Disc Caliper with Tyre Tread Depth Gauge Model No. VS057

Unique lever action floating jaw assembly enables easy removal of caliper from disc while retaining reading. Ideal on discs that have a wear lip. Features a tyre tread depth gauge at the base of the caliper and scale lock. Metric scale with 0.1mm graduations.

Range:	0-56mm
--------	--------

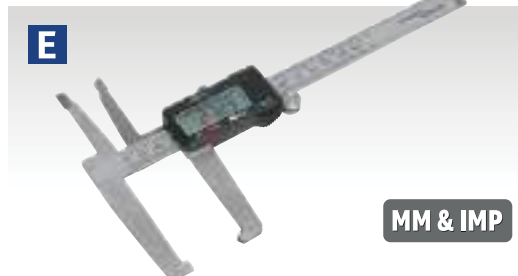


MM

D 0-50mm Brake Disc Caliper Model No. VS056

Stainless steel caliper suitable for accurate measurement of brake disc thickness. Floating jaw assembly enables easy removal of caliper from disc while retaining reading. Metric scale with 0.1mm graduations. Supplied in storage case.

Range:	0-50mm
--------	--------



MM & IMP

E 150mm/6" Digital Brake Disc & Drum Caliper Model No. VS0566

Measures disc thickness (external) and small drums (internal). Hardened and tempered stainless steel gauge. 11mm High figures in LCD display for ease of reading. Metric or Imperial read-out with 'Hold' function. Zero setting control allows for comparative measurement. Supplied with calibration certificate and storage case.

Range:	0-150mm(0-6")
Resolution:	0.01mm(0.0005")
Accuracy:	±0.02mm(±0.001")
Battery:	SR44 - 1.5V (supplied)



F Brake Pad Thickness Gauge Model No. VS058

Ingenious time saving tool and essential for any garage. Measures the brake pad lining on the vehicle without removing the road wheel. Slim design enables the tool to locate the rear of the pad backing plate, allowing the probe to measure the distance between the underside of the backing plate and brake disc. Suitable for both internal and external brake pads. Features calibration line, plus minimum 1.5mm pre-MOT check mark. Designed for brake pads that have a normal 6mm thick backing plate (Class IV, V).

Range:	1.5-13mm
--------	----------



MM & IMP

G Brake Drum Wear Gauge Model No. VS040

Measures drum wear to ensure it is within manufacturer's tolerance. Also aids quick set-up of shoe/drum clearance prior to re-installation of drum. Measures drums from 165 to 292mm (6-1/2" to 11-1/2"). Dual Imperial and Metric scale. Knurled locking action.



MM & IMP

H 300mm/12" Digital Brake Disc & Drum Caliper Model No. VS0567

Measures disc thickness (external) and small/medium sized drums (internal). Hardened and tempered stainless steel gauge. 11mm High figures in LCD display for ease of reading. Metric or Imperial read-out with 'Hold' function. Zero setting control allows for comparative measurement. Supplied with calibration certificate and storage case.

Range:	0-300mm(0-12")
Resolution:	0.01mm(0.0005")
Accuracy:	±0.02mm(±0.001")
Battery:	SR44 - 1.5V (supplied)



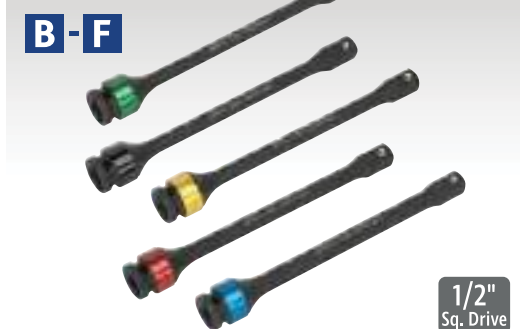
A 5pc 1/2" Sq Drive Torque Stick Set Model No. AK2242

Chrome Molybdenum steel torque sticks designed for use with air and electric impact wrenches. Prevents over-torque of wheel nuts. Anodised aluminium colour-coding for easy selection. Features a twist distortion marking for checking serviceability of tool. Supplied in storage case.

Drive:	1/2" Sq
Colour:	Torque Rating:
Green:	65lb.ft(90Nm)
Black:	75lb.ft(100Nm)
Gold:	80lb.ft(110Nm)
Red:	90lb.ft(120Nm)
Blue:	100lb.ft(135Nm)

Torque Sticks

For correct operation impact wrenches must be limited to a maximum of 250lb.ft(338Nm). Required torque is achieved once the stick visually stops turning. Prolonged use will cause over tightening or damage to the tool.



B - F 1/2" Sq Drive Torque Sticks Model No. SEE BELOW

Chrome Molybdenum steel torque sticks designed for use with air and electric impact wrenches. Prevents over-torque of wheel nuts. Anodised aluminium colour-coding for easy selection. Features a twist distortion marking for checking serviceability of tool.

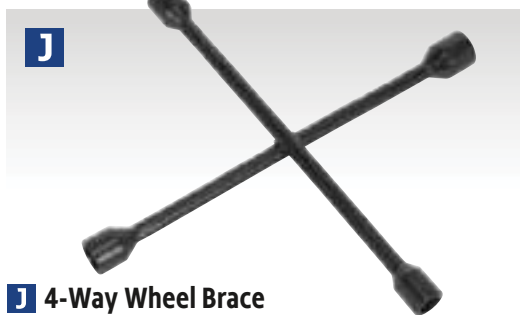
B Model No:	VS2243
Colour:	Green
Torque Rating:	65lb.ft(90Nm)
C Model No:	VS2244
Colour:	Black
Torque Rating:	75lb.ft(100Nm)
D Model No:	VS2245
Colour:	Gold
Torque Rating:	80lb.ft(110Nm)
E Model No:	VS2246
Colour:	Red
Torque Rating:	90lb.ft(120Nm)
F Model No:	VS2247
Colour:	Blue
Torque Rating:	100lb.ft(135Nm)



I 1/2" Sq Drive 4-Way Wheel Brace Model No. AK2093

Forged construction with polished mirror finish. Features three popular size wheel nut sockets and 1/2" Sq drive adaptor for standard sockets.

Socket Sizes:	17, 19, 21mm
Lever Bar Length:	355mm



J 4-Way Wheel Brace Model No. AK2090

Forged construction with hot forged sockets and baked finish.

Socket Sizes:	17, 19, 21, 22mm
Lever Bar Length:	355mm



G 8pc 1/2" Sq Drive Torque Stick & Alloy Wheel Impact Socket Set Model No. AK2243

Set includes Chrome Molybdenum torque sticks with a blackened finish, and impact sockets, which are hardened, tempered and anodised for corrosion resistance. Both are designed for use with air and electric impact wrenches and are colour-coded for easy selection. Torque sticks can be used with any impact grade sockets and are especially suitable for thin-walled sockets. Popular torque rates for most cars and light commercial vehicles. The impact sockets are sleeved to prevent damage to alloy wheels. Supplied in storage case.

Drive:	1/2" Sq
Torque Sticks:	Torque Rating:
Colour:	Torque Rating:
Black:	75lb.ft(100Nm)
Gold:	80lb.ft(110Nm)
Red:	90lb.ft(120Nm)
Blue:	100lb.ft(135Nm)
Impact Sockets:	Size:
Colour:	Size:
Blue:	17mm
Gold:	19mm
Red:	21mm
Green:	22mm



H 1/2" Sq Drive Extra-Long 4-Way Wheel Brace Model No. AK2096

Longer than most other wheel braces on the market, allowing extra force to be applied. Manufactured from carbon steel with chrome finish. Features three popular sizes of wheel nut sockets, and 1/2" Sq drive adaptor for standard sockets.

Socket Sizes:	17, 19, 21mm
Lever Bar Length:	506mm



K 3pc 1/2" Sq Drive Extendable L-Bar Wrench Set Model No. S0472

High quality steel construction with rubber grip. 1/2" Sq drive L-bar extends from 355 to 520mm and gives extra leverage for stubborn fixings. Supplied with two double end sockets 17 x 19mm and 21 x 23mm.



A - G 1/2" Sq Drive Alloy Wheel Impact Sockets
Model No. [SEE RIGHT](#)

Chrome Molybdenum sockets, hardened, tempered and anodised for corrosion resistance. Suitable for use with impact tools. 6-Point sockets are externally and internally sleeved to prevent damage to alloy wheels and nuts. Colour-coding for ease of size selection.

Model No:	Size:
A SX03017	17mm
B SX03019	19mm
C SX03021	21mm
D SX03022	22mm
E SX03023	23mm
F SX03024	24mm
G SX03027	27mm



J - M 1/2" Sq Drive Alloy Wheel Ultra-Power Impact Sockets
Model No. [SEE RIGHT](#)

Five times stronger than the conventional design and tested to 500Nm. Innovative design features a protective metal colour-coded ring that prevents the socket wall spreading. Each 6-point socket is sleeved and has an insert to prevent damage to alloy wheels and nuts. Model No. SX039 set contains all three socket sizes.



Model No:	Sizes:
J SX039	17, 19, 21mm
K SX03917	17mm
L SX03919	19mm
M SX03921	21mm



N - O 1/2" Sq Drive Alloy Wheel Impact Socket Sets
Model No. [SEE BELOW](#)

Chrome Molybdenum sockets, hardened, tempered and anodised for corrosion resistance. Suitable for use with impact tools. Each 6-point socket is sleeved and has an insert to prevent damage to alloy wheels and nuts. Colour-coded socket assists ease of size selection. Comprises deep or long reach 17, 19 and 21mm sockets. Supplied in storage case.

Model No:	Type:
N SX031	Deep
O SX031D	Long Reach
Sizes:	17, 19, 21mm
Drive:	1/2" Sq

IMPORTANT INFORMATION - Model No's SX030, SX031, SX031D and individual alloy wheel sockets have an ultra-thin walled design. For use on wheel nuts only and exempt from lifetime guarantee.



H - I 1/2" Sq Drive Alloy Wheel Impact Sockets - Star Profile
Model No. [SEE BELOW](#)

Star profile wheel nut sockets which are now used on some Hyundai and Mercedes vehicles. Manufactured from Chrome Molybdenum steel with protective sleeve.

Model No:	Drive:	Size:	Application:
H SX0417	1/2" Sq	17mm	Mercedes
I SX0421	1/2" Sq	21mm	Hyundai



P 4pc 1/2" Sq Drive Alloy Wheel Impact Socket Set
Model No. [SX030](#)

Chrome Molybdenum sockets, hardened, tempered and anodised for corrosion resistance. Suitable for use with impact tools. Each 6-point socket is sleeved to prevent damage to alloy wheels and nuts. Colour-coded sockets for easy size selection. Standard 17, 19 and 21mm sockets and 27mm for Land Rover, Range Rover and other 4x4 applications, plus spare PE sleeves and depth inserts.

Sizes:	17, 19, 21, 27mm
---------------	------------------



A 3pc 1/2" Sq Drive Deep Impact Socket Set Model No. SX043

Manufactured from Chrome Vanadium steel, hardened, tempered and with a phosphate finish for added corrosion resistance. Deep 6-Point WallDrive® sockets allow a transfer of up to 30% more torque to the fixing.

Sizes: 17, 19, 21mm



D 16pc 1/2" Sq Drive Deep Impact Socket Set Model No. AK5816M

Manufactured from Chrome Vanadium steel, hardened, tempered and with a phosphate finish for added corrosion resistance. Deep WallDrive® sockets allow a transfer of up to 30% more torque to the fixing.

Quantity of Sockets: 16
Type: 1/2" Sq Drive Deep
Contents: 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27, 30, 32mm



G Wheel Bolt Thread Restorer Kit - Commercial Model No. CV203

Contains four common wheel bolt thread sizes. Suitable for cleaning and repairing damaged threads, saving time and money. Use with a 32mm socket or spanner. Supplied in storage case.

Thread Sizes: M18 x 1.5mm, M20 x 1.5mm, M22 x 1.5mm, 7/8" x 11BSF
Adaptor Holder: 32mm Hex Drive



B 3pc 1/2" Sq Drive Weighted Impact Socket Set Model No. SX319

Designed for use on fixings that have a high torque setting. Counter-weighted design reduces impact losses found in conventional sockets. 17mm, 19mm, 21mm Sizes cover a wide variety of crankshaft pulley bolt sizes. Suitable for GM, Ford, Honda, Kia, Toyota, Lexus, Jeep, and Mazda vehicles.

Drive: 1/2" Sq
Sizes: 17, 19, 21mm



E 80mm 1/2" Sq Drive 18.5/19.5mm Double Ended Deep Impact Socket Model No. SX1819

Double Ended 80mm deep impact socket 18.5/19.5mm 1/2" Sq Drive. Black Phosphate Finish.

Drive: 1/2" Sq
Size: 80mm



H Wheel Bolt Thread Chasers M12 & M14 Model No. SX205

Contains the four most common wheel bolt thread sizes. Suitable for cleaning and repairing damaged wheel hub threads, saving time and money. Use with 12mm socket or spanner. Supplied in storage case.

Thread Sizes: M12 x 1.25mm, M12 x 1.5mm, M12 x 1.75mm, M14 x 1.5mm



C 17mm 1/2" Sq Drive Wheel Bolt Security Socket - Honda/Hyundai/Toyota Model No. SX0177

Manufactured from Chrome Vanadium steel. 7-Sided 17mm wheel bolt security socket suitable for Honda, Hyundai and Toyota vehicles.



F 4pc 1/2" Sq Drive Impact Wheel Nut/Removal Flip Socket Set Model No. SX271

Flip socket set featuring wheel nut socket one end and fluted socket the other, for removing locking or rounded off wheel nuts. Attach the 75mm extension bar and slip on one of the double end impact tools. Simple and fast interchange, pull socket off bar, flip 180°, put it back on. High quality Chrome Molybdenum impact sockets with heat treatment and anti-corrosion finish.

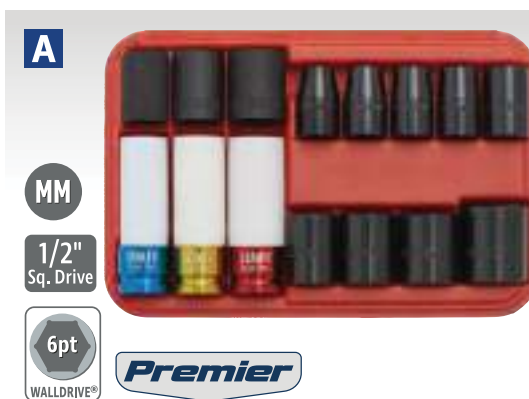
Sizes: 17, 19, 21mm



I Reverse Action Wheel Stud Thread Restorer Kit Model No. SX203

Unique design allows for the two halves of the thread restorer to be fitted on the good thread and wound back over the damaged thread, normally at the end of the stud. Traditional thread restorers rely on luck for the restored and undamaged threads to align. Kit contains the three most common wheel stud thread sizes. Supplied in storage case.

Thread Sizes: M12 x 1.25, M12 x 1.5, M14 x 1.5mm
Adaptor Holder: 29mm Hex Drive



A 15pc 1/2"Sq Drive Impact Socket & Wheel Nut Remover Set Model No. AK5615M

Comprehensive impact socket set. Consists of three Chrome Molybdenum locking wheel nut removal sockets. Three Chrome Molybdenum colour-coded alloy wheel impact sockets with protective sleeve. Nine hardened and tempered Chrome Vanadium steel impact sockets with a phosphate finish for greater corrosion resistance. All impact sockets are WallDrive®, which allows a transfer of up to 30% more torque to the fixing. Supplied in storage case.

Contents: Wheel Nut Removers; 18.5, 21.5, 26mm, Alloy Wheel Impact Sockets; 17, 19, 21mm, Impact Sockets; 10, 11, 13, 14, 17, 19, 22, 24, 27mm



D Hub Cleaner Model No. VS8001

Removes surface dirt and corrosion on hubs that use wheel bolts. Ideal for preparing wheels, hubs and brake discs or drums for re-assembly. Use with 1/2"Sq drive adaptor.

Disc External Diameter:	Ø150mm
Disc Internal Diameter:	Ø88mm
Replacement Cleaning Disc:	VS8001A



B 8pc 1/2"Sq Drive Locking Wheel Nut Removal Set Model No. SX202

Forged Chrome Molybdenum steel 1/2"Sq drive sockets for removal of wheel locking nuts. May also be used on fixings too damaged or corroded for standard sockets. Suitable for use with impact wrenches. Supplied in a tough composite storage case. For distribution to bona fide vehicle dealers and repair centres only.

Sizes: 17, 18.5, 20, 21.5, 23, 24.5, 26, 27.5mm



E 10pc Locking Wheel Nut Removal Set Model No. SX272

Conical shaped design allows socket to fit over locking/wheel nut. Socket is hammered onto nut using the punch, so nut and socket wedge together. Nut can then be removed with a breaker bar or impact wrench. Set also includes deep punch to remove nut from socket. For distribution to bona fide vehicle dealers and repair centres only.

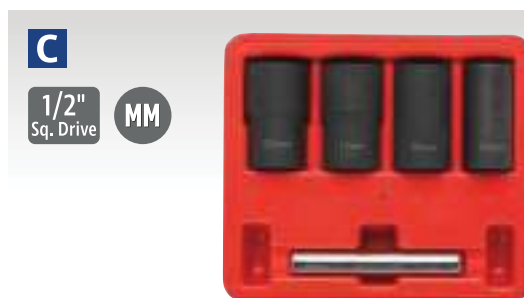
Contents: 19mm Hex Drive Sockets; Ø18, 19, 20, 21, 22, 22mm Hex Drive Sockets; 23, 24, 25mm



G Wheel Stud Cleaning Tool Set Model No. VS8003

Quick and easy wheel stud cleaning tool. Supplied with a 1/2"Sq drive/1/4"Hex adaptor. Six brushes; 12mm(7/16"), 13mm(1/2"), 14mm(9/16"), 16mm(5/8"), 22mm(7/8"), 28mm(1-1/8"). Quick change brushes, use with cordless drill (Maximum Speed 1800rpm) or by hand.

Disc Internal Diameter: Ø12mm(7/16"), 13mm(1/2"), 14mm(9/16"), 16mm(5/8"), 22mm(7/8"), 28mm(1-1/8")



C 5pc 1/2"Sq Drive Locking Wheel Nut Removal Set Model No. SX201

Forged Chrome Molybdenum steel 1/2"Sq drive sockets for removal of wheel locking nuts when the key is not available. May also be used on fixings too damaged or corroded for standard sockets. Set includes drift to aid removal of fixing from socket. Suitable for use with impact wrenches. Supplied in storage case. For distribution to bona fide vehicle dealers and repair centres only.

Sizes: Sockets; 17, 19, 21, 22mm, Drift; Ø12 x 80mm



F 2pc 1/2"Sq Drive Locking Wheel Nut Removal Set Model No. SX200

Chrome Molybdenum steel socket with 1/2"Sq drive. Used with air impact wrench running in reverse, deep reverse helix grips locking wheel nut. Ideal for busy fast fit operation. Removal action will distort wheel nut and replacement is recommended. For distribution to bona fide vehicle dealers and repair centres only.

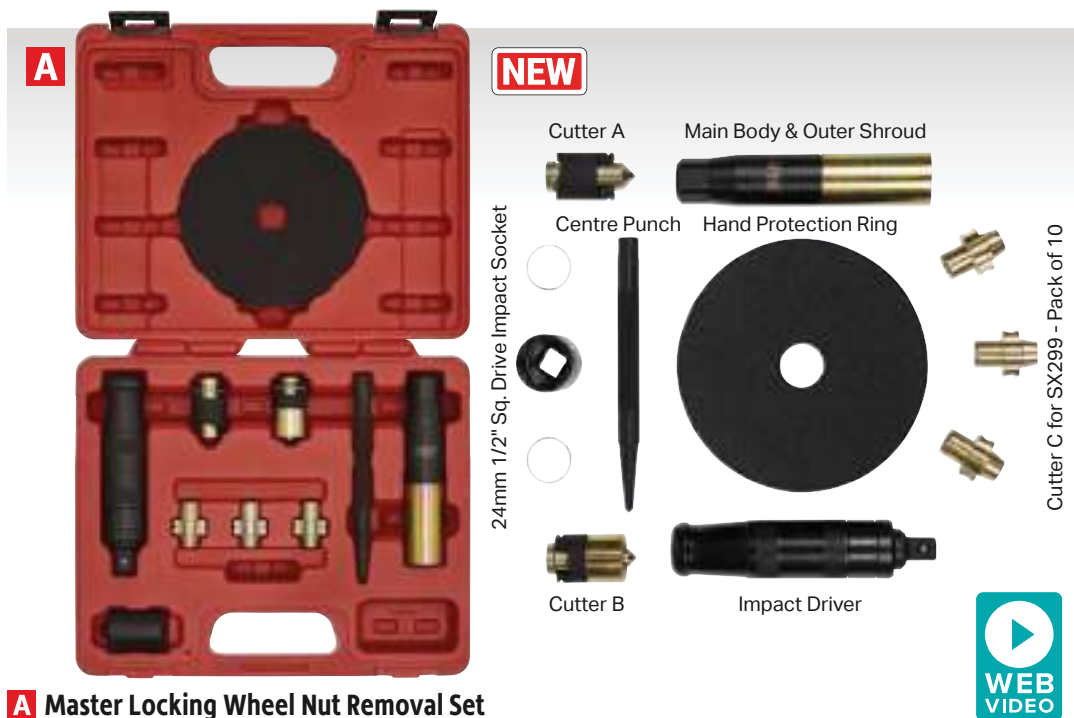
Wheel Nut Compatibility: 19, 21, 22mm (Across Flats)



H 14pc Stud Hub Cleaner Model No. VS8002

Removes surface dirt and corrosion on hubs fitted with studs. Ideal for preparing wheels, hubs and brake discs or drums for re-assembly. Cleaning discs fit over wheel studs. Use with power drill or air impact wrench. Supplied with 1/2"Sq drive adaptor.

Disc External Diameter:	Ø41mm Course, 38mm Fine
Disc Internal Diameter:	Ø14mm
Replacement Cleaning Pads:	VS8002A (Pack of 12)



A Master Locking Wheel Nut Removal Set Model No. SX299

Simple to use master kit capable of removing practically any locking wheel nuts. Kit includes shroud which protects the wheel against any damage. Very effective and a must have workshop tool.

Replacement Disposable Blades:

SX299DB (Pack of 10)



B Cutter for SX299 Master Locking Wheel Nut Removal Set - Range Rover Model No. SX299RR

Specially designed cutter for use on Land Rover, Range Rover locking wheel nuts. To be used in conjunction with Model No. SX299 Master Locking Wheel Nut Removal Set.



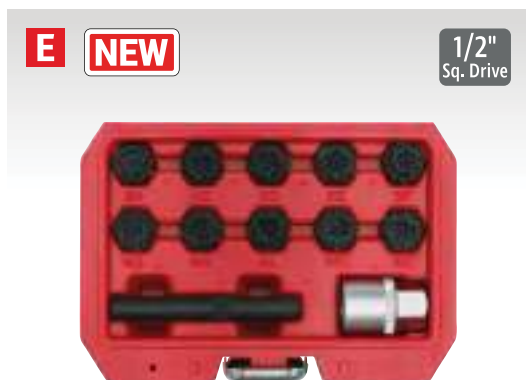
C Cutter for SX299 Master Locking Wheel Nut Removal Set - Jaguar Model No. SX299JAG

Specially designed cutter for use on Jaguar locking wheel nuts. To be used in conjunction with Model No. SX299 Master Locking Wheel Nut Removal Set.



D Blade C for SX299 - Pack of 10 Model No. SX299DB

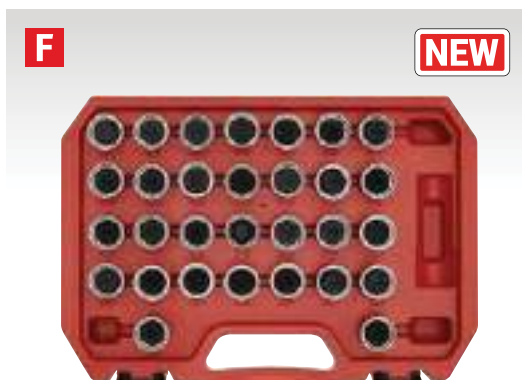
Designed for use on McGard locking wheel nuts. For use with Model No. SX299.



E 12pc Locking Wheel Nut Key Set - Mercedes Model No. SX223

Set of 10 locking keys for the removal of security locking wheel nuts on Mercedes vehicles. Supplied with 1/2\"Sq Drive Socket Driver and Shaft. For distribution to bona fide vehicle dealers and repair centres only.

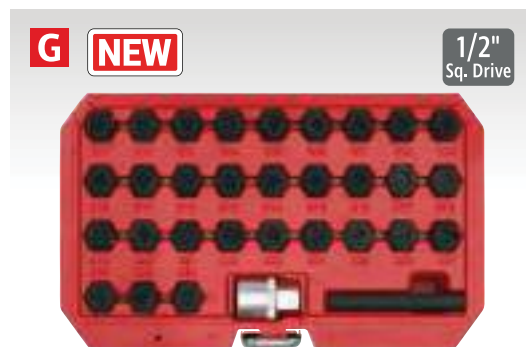
Contents: 1/2\"Sq Drive Socket Driver and Shaft, Keys; 5A, 5C, 5D, 5E, 5F, 5G, 5L, 5N 5P, 5X



F 30pc Locking Wheel Nut Key Set - Mercedes Model No. SX212

Set of 30 locking keys for the removal of security locking wheel nuts on Mercedes vehicles. For distribution to bona fide vehicle dealers and repair centres only.

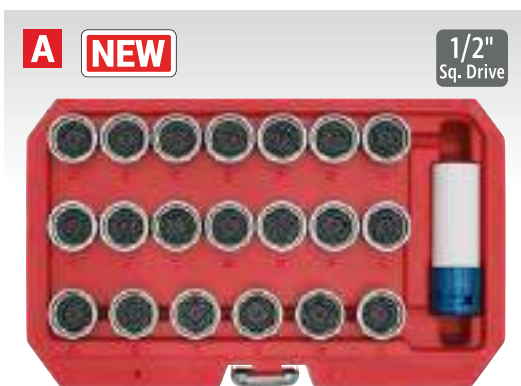
Contents: #301, #302, #303, #304, #305, #306, #307, #308, #309, #310, #311, #312, #313, #314, #315, #316, #317, #318, #319, #320, #321, #322, #323, #324, #325, #326, #327, #328, #329, #330



G 32pc Locking Wheel Nut Key Set - Mercedes Model No. SX213

Set of 30 locking keys for the removal of security locking wheel nuts on Mercedes vehicles. Supplied with 1/2\"Sq drive socket and shaft. For distribution to bona fide vehicle dealers and repair centres only.

Contents: 1/2\"Sq Drive Socket and Shaft, Keys; #301, #302, #303, #304, #305, #306, #307, #308, #309, #310, #311, #312, #313, #314, #315, #316, #317, #318, #319, #320, #321, #322, #323, #324, #325, #326, #327, #328, #329, #330



A 21pc Locking Wheel Nut Key Set - Audi
Model No. SX218

Set of 20 locking keys for the removal of security locking wheel nuts on Audi vehicles. Supplied with 1/2"Sq drive 17mm key drive socket. For distribution to bona fide vehicle dealers and repair centres only.

Contents: 1/2"Sq Drive 17mm Key Drive Socket, Keys; A, B, C, E, F, G, H, I, J, L, M, N, P, Q, R, S, T, V, W, X



B 22pc Locking Wheel Nut Key Set - Audi
Model No. SX206

Set of 20 locking keys for the removal of locking wheel nuts on Audi vehicles. Adaptor can be used with either a 1/2"Sq drive or 21mm socket. Set includes drift to aid removal of key from adaptor. For distribution to bona fide vehicle dealers and repair centres only.



C 10pc Locking Wheel Nut Key Set - Land Rover
Model No. SX222

Set of 10 locking keys for the removal of security locking wheel nuts on Land Rover vehicles. For distribution to bona fide vehicle dealers and repair centres only.

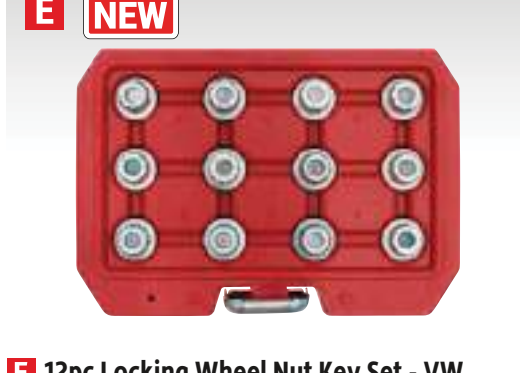
Contents: Keys; 3420A, 3421B, 3422C, 3423D, 3424E, 3425F, 3426G, 3427H, 3428I, 3429J



D 10pc Locking Wheel Nut Key Set - VW
Model No. SX225

Set of 10 locking keys for the removal of security splined locking wheel nuts on VW vehicles. For distribution to bona fide vehicle dealers and repair centres only.

Contents: Keys; #ABC0/10PT, #ABC1/11PT, #ABC2/13PT, #ABC3/14PT, #ABC4/15PT, #ABC5/16PT, #ABC6/17PT, #ABC7/19PT, #ABC8/20PT, #ABC9/21PT



E 12pc Locking Wheel Nut Key Set - VW
Model No. SX224

Set of 12 locking keys for the removal of security locking wheel nuts on VW vehicles. For distribution to bona fide vehicle dealers and repair centres only.

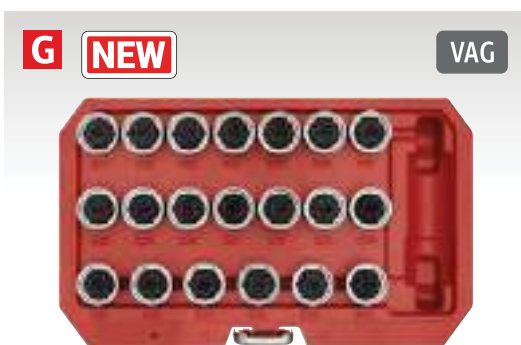
Contents: Keys; #51/6PT, #52/7PT, #53/8PT, #54/9PT, #55/10PT, #56/11PT, #57/12PT, #58/13PT, #59/14PT, #60/15PT, #61/16PT, #62/17PT



F 20pc Locking Wheel Nut Key Set - Porsche
Model No. SX221

Set of 20 locking keys for the removal of security locking wheel nuts on Porsche vehicles. For distribution to bona fide vehicle dealers and repair centres only.

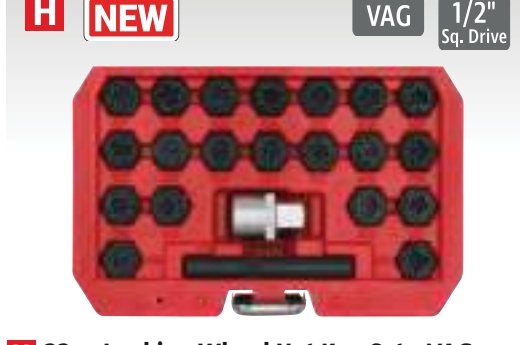
Contents: Keys; ABC-50, ABC-51, ABC-52, ABC-53, ABC-54, ABC-55, ABC-56, ABC-57, ABC-58, ABC-59, ABC-60, ABC-61, ABC-62, ABC-63, ABC-64, ABC-65, ABC-66, ABC-67, ABC-68, ABC-69



G 20pc Locking Wheel Nut Key Set - VAG
Model No. SX219

Set of 20 locking keys for the removal of security locking wheel nuts on VAG vehicles. Special shape for ANTI-THEFT wheel nuts. For distribution to bona fide vehicle dealers and repair centres only.

Contents: Keys; #521, #522, #523, #524, #525, #526, #527, #528, #529, #530, #531, #532, #533, #534, #535, #536, #537, #538, #539, #540



H 22pc Locking Wheel Nut Key Set - VAG
Model No. SX220

Set of 22 locking keys for the removal of security locking wheel nuts on VAG vehicles. Supplied with 1/2"Sq drive socket and shaft. Special shape for ANTI-THEFT wheel nuts. For distribution to bona fide vehicle dealers and repair centres only.

Contents: 1/2"Sq Drive Socket and Shaft, Keys; #521, #522, #523, #524, #525, #526, #527, #528, #529, #530, #531, #532, #533, #534, #535, #536, #537, #538, #539, #540



I 23pc Locking Wheel Nut Key Set - VAG
Model No. SX210

Set of 22 keys for the removal of spline and security ribe locking wheel nuts on VAG vehicles. Includes 17mm wheel nut socket with 1/2"Sq drive. For distribution to bona fide vehicle dealers and repair centres only.

Spline Points: 10PT, 11PT, 13PT, 14PT, 15PT, 16PT, 17PT, 19PT, 20PT, 21PT

Security Ribes: 51/6PT, 52/7PT, 53/8PT, 54/9PT, 55/10PT, 56/11PT, 57/12PT, 58/13PT, 59/14PT, 60/15PT, 61/16PT, 62/17PT

Key Drive: 17mm



A - C 20pc Locking Wheel Nut Key Sets - Vauxhall
Model No. SEE BELOW

Sets of 20 locking keys for the removal of security locking wheel nuts on Vauxhall vehicles. For distribution to bona fide vehicle dealers and repair centres only.

	A	B	C
Model No:	SX214	SX215	SX216
Type:	Vauxhall-A	Vauxhall-B	Vauxhall-C
Contents:	Keys; Z16512 - 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120	Keys; Z16512 - 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140	Keys; Z16512 - 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200



D 22pc Locking Wheel Nut Key Set - BMW
Model No. SX207

Set of 20 locking keys for the removal of locking wheel nuts on BMW vehicles. Adaptor can be used with either a 1/2"Sq drive or 21mm socket. Set includes drift to aid removal of key from adaptor. For distribution to bona fide vehicle dealers and repair centres only.



E 10pc Locking Wheel Nut Key Set - BMW
Model No. SX227

Set of 10 locking keys for the removal of security splined locking wheel nuts on BMW vehicles. For distribution to bona fide vehicle dealers and repair centres only.

Contents: Tamperproof Bits; #11/15PT, #12/14PT, #13/16PT, #14/12PT, #15/11PT, #16/10PT, #17/7PT, #18/13PT, #19/8PT, #20/9PT



F 21pc Locking Wheel Nut Key Set - BMW
Model No. SX217

Set of 20 locking keys for the removal of security locking wheel nuts on BMW vehicles. Supplied with 1/2"Sq drive 17mm hex impact socket. For distribution to bona fide vehicle dealers and repair centres only.

Contents: 1/2"Sq Drive 17mm Hex Impact Socket, Keys; 041, 042, 043, 044, 045, 046, 047, 048, 049, 050, 051, 052, 053, 054, 055, 056, 057, 058, 059, 060.



G 10pc Locking Wheel Nut Key Set BMW & Mini
Model No. SX208

Set of 10 locking keys for the removal of security splined locking wheel nuts on BMW and Mini. For distribution to bona fide vehicle dealers and repair centres only.

BMW No./Security Spline Points: 30/13PT, 31/15PT, 32/16PT, 33/17PT, 34/18PT, 35/19PT, 36/20PT, 37/21PT, 38/22PT, 40/23PT

Key Drive: 17mm Hex



H 21pc Locking Wheel Nut Key Set BMW & Mini
Model No. SX209

Set of 20 keys for the removal of security spline and ribe locking wheel nuts on BMW and Mini. Includes 17mm wheel nut socket with 1/2"Sq drive. For distribution to bona fide vehicle dealers and repair centres only.

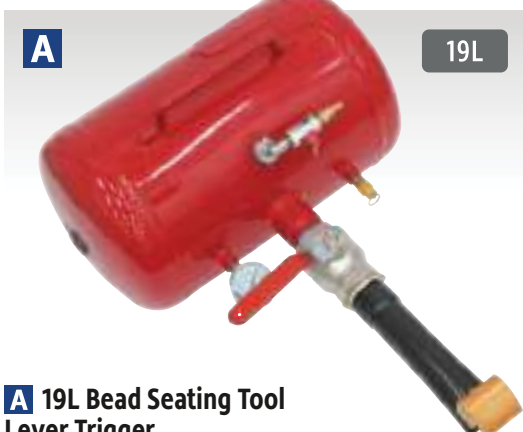
BMW No./Security Spline Points: 30/13PT, 31/15PT, 32/16PT, 33/17PT, 34/18PT, 35/19PT, 36/20PT, 37/21PT, 38/22PT, 40/23PT

BMW No./Ribe Points: 30/13PT, 31/15PT, 32/16PT, 33/17PT, 34/18PT, 35/19PT, 36/20PT, 37/21PT, 38/22PT, 40/23PT

Key Drive: 17mm Hex



See page 1299 for our range of Specialised Greases.



A 19L Bead Seating Tool
Lever Trigger
Model No. TC900

The easy and instant way to seat tubeless tyre beads. Dumps air into tyre void forcing bead to seat against rim for inflation. Air release is controlled by a hand lever operating a ball valve. Fully certified tank with gauge and safety valve prevents over pressurising. Suitable for use on cars, commercials, agricultural and ATV tyres.

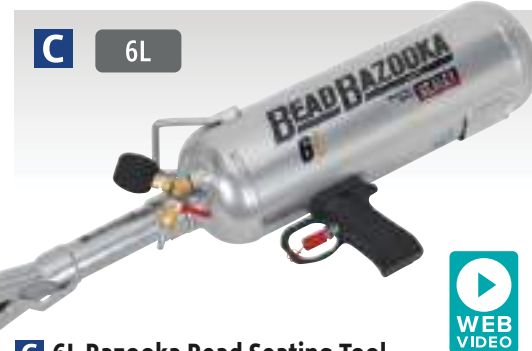
Maximum Pressure:	150psi(10.4bar)
Tank Capacity:	19L
Weight:	12.6kg



B 19L Bead Seating Tool
Push-Button Trigger
Model No. TC904

The easy and instant way to seat tubeless tyre beads. Dumps air into tyre void forcing bead to seat against rim for inflation. Air release is controlled by a diaphragm valve and push-button trigger. Features slotted key to prevent accidental operation of the trigger. Fully certified tank with gauge and safety valve prevents over pressurising. Suitable for use on cars, commercials, agricultural and ATV tyres.

Maximum Pressure:	150psi(10.4bar)
Tank Capacity:	19L
Weight:	13.2kg



C 6L Bazooka Bead Seating Tool
Model No. TC903

The next generation of bead blaster which produces a huge punch despite its size. Delivers an instantaneous blast of air. Dumps air into tyre void forcing bead to seat against rim for inflation. Fully certified tank with gauge, and safety valve that prevents over pressurising. Push-button trigger allows the technician to keep both hands on the tank for more control. Suitable for use on cars, light commercials and ATV tyres. Supplied with safety spectacles, ear plugs and wall mounting bracket.

Maximum Pressure:	150psi(10bar)
Tank Capacity:	6L
Weight:	5.6kg



D Professional Tyre Inflator with 2.5m Hose & Clip-On Connector
Model No. SA37/94

See page 575 for details.



E Hydraulic Bead Breaker
Model No. TC966

Hydraulic action, suitable for breaking beads on commercial and agricultural tyres. Use in conjunction with hydraulic pump and hose (not included).

Optional Hydraulics:	
Manual Pump:	RE97.10-01
Air Pump:	RE83/840
Hose with Half Coupling:	RE97.10-03



HYDRAULIC PUMPS

See page 708 for details of our Air Operated Hydraulic Pumps



F Tyre Bead Breaker
Model No. TC968

Manual bead breaker, especially suitable for motorcycle tyres. Lever action with parallel linkage keeps head at the optimum angle for breaking the bead.

Maximum Bead Thickness:	160mm
Maximum Tyre Profile:	190mm

A Manual Tyre Changer
Model No. TC960

Steel construction with manual bead breaker. Suitable for use on most open centred wheels. Supplied with tyre bar. To prevent damage to alloy wheel rims, use optional Tyre Bar, Model No. TC963.

Wheel Diameter Minimum/Maximum:	Ø325/460mm
Wheel Depth Minimum/Maximum:	40/203mm
Working Height:	640mm
Centre Post Diameter:	Ø41mm
Optional Tyre Bar for Aluminium Wheels:	TC963

B Motorcycle & Small Hub Tyre Changer
Model No. TC965

Manual type tyre changer suitable for wide variety of tyres and wheels including those fitted to motorcycles, ATVs, go-karts and golf buggies. Works on bearing or hub centred wheels and is supplied with two centre posts. Includes manual bead breaker and supplied with tyre bar for mounting and de-mounting. Fast and simple operation. To prevent damage to alloy wheel rims, use optional Tyre Bar Model No. TC963.

Wheel Diameter Minimum/Maximum:	Ø102/524mm
Wheel Depth Minimum/Maximum:	0/280mm
Centre Post Diameter:	Ø12, 16, 19, 24mm
Optional Tyre Bar for Aluminium Wheels:	TC963

C Pneumatic/Manual Tyre Changer
Model No. TC962

Heavy steel construction. Pneumatic bead breaker. Suitable for use on most automotive/light commercial open centred wheels. Features additional air line coupling for tyre inflator. Supplied with standard tyre bar and PCL couplings. To prevent damage to alloy wheel rims, use optional Tyre Bar, Model No. TC963.

Working Pressure:	100psi
Maximum Pressure:	150psi
Wheel Diameter Minimum/Maximum:	Ø203/460mm
Wheel Depth Minimum/Maximum:	40/300mm
Working Height:	800mm
Optional Tyre Bar for Aluminium Wheels:	TC963



D Manual Tyre Spreader with Stand
Model No. TC970

Floor standing unit for spreading vehicle tyres before carrying out repairs. Features rollers to rotate the tyre to the correct position and fully adjustable platform. Suitable for most cars and light commercial vehicles.

Height:	870mm
Base Size:	300 x 300mm
Maximum Tyre Depth:	230mm (Before Spreading)
Tyre Spread:	85mm
Platform Swivel:	360°
Tilt:	4-Position (Foot Operated)
Maximum Tilt:	90°
Spreader Position Adjustments:	7



E Tyre Trolley 150kg Capacity
Model No. TH003

Pick-up and transport stacks of car tyres with ease. Strong tubular steel construction with welded joints. Pneumatic tyres allow easy transportation over rough ground.

Capacity:	150kg
Wheel Diameter:	Ø250mm
Height:	1520mm
Minimum Jaw Capacity:	420mm
Maximum Jaw Capacity:	900mm

A Automatic Tyre Changer

Model No. TC10

Automatic tyre changer capable of changing 11" to 24" wheel rims. Suitable for most cars and light commercial vehicles. Air operated rear tilting column and head lock. Protects alloy wheels with the added feature of plastic protectors fitted to the clamping jaws and mounting head. Supplied with 485mm tyre lever, integrated tyre inflator, tyre soap tub, air regulator and lubricator. Model No. TC10A Assist Arm is required for use with low profile and run flat tyres.

Wheel Diameter Minimum/Maximum:

Internal Clamping Ø11"-20", External Clamping Ø12"-24"

Wheel Depth Minimum/Maximum: Ø12"(305mm)

Turntable Diameter: Ø26"(660mm)

Bead Breaking Force: 2500kg

Tyre Inflator: 0-10bar(0-145psi)

Voltage/Phase: 230V - 1ph

Motor: 1.1kW

Operating Pressure: 8-10bar(115-145psi)

Inlet Size: 1/4"BSP

Dimensions (W x D x H): 690 x 1100 x 1900mm

Weight: 246kg

Optional Assist Arm: TC10A



Model No. TC10 with
Model No. TC10A fitted.

C Semi-Automatic Wheel Balancer

Model No. WB10

Semi-automatic balancer with auto-data input for offset and wheel diameter, data can be input manually if required. Steel and alloy settings depending on required location of wheel weights, including split (hidden) weight. Additionally, the machine is self-calibrating with manual check option. Features auto-standby mode, foot operated brake, quick release locking wing nut and wheel guard with auto stop. Suitable for most cars and light commercial wheels. Supplied with four centring cones, wheel measuring calipers, weight pliers and 100g calibration weight.

Maximum Rim Diameter: Ø28"(710mm)

Maximum Tyre Diameter: Ø43"(1100mm)

Maximum Wheel & Tyre Weight: 70kg

Maximum Rim Width: 20"(510mm)

Rotating Speed: 140rpm

Accuracy: ±1g

Balance Time: 7s

Shaft Width: 40mm

Voltage/Phase: 230V - 1ph

Motor Power: 90W

Mounting Cone Diameters: Ø42-65, 53-78, 75-108, 88-140mm

Overall Size (W x D x H): 1100 x 1000 x 1250mm

Weight: 128kg

A

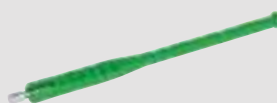


230V



TYRE VALVE TOOLS

See page 579
for our full range of
Tyre Valve Tools.



B



B Tyre Changer Assist Arm for TC10

Model No. TC10A

The assist arm is required for mounting and dismounting low profile and run flat tyres and is used in conjunction with Model No. TC10 Tyre Changer. Operated by air supply from the tyre changer. Single air ram operates three separate arms with one control lever.

Height: 1220mm

Height When Mounted: 1550mm

Operating Pressure: 8-10bar(115-145psi)

Weight: 70kg



C

230V





A Single Barrel Foot Pump
Model No. S0540

Steel framed foot pump with Ø50 x 120mm steel barrel. Dial type pressure gauge with rotating bezel. Gauge calibrated in psi and bar and ranges from 0-100psi and 0-7bar. Fitted with 610mm of flexible pressure hose with clip-on type connector. Supplied with accessory for inflating items such as small inflatable boats, air beds and balls.



B Single Barrel Foot Pump
Model No. FP1

Steel framed foot pump with Ø50 x 120mm steel barrel. Dial type pressure gauge with rotating bezel. Gauge calibrated in psi and bar and ranges from 0-100psi and 0-7bar. Fitted with 610mm of flexible pressure hose with locking connector. Supplied with accessory for inflating items such as small inflatable boats, air beds and balls.



C Twin Barrel Foot Pump
Model No. FP2

High power, steel framed foot pump with two Ø50 x 120mm steel barrels. Dial type pressure gauge with rotating bezel. Gauge calibrated in psi and bar and ranges from 0-100psi and 0-7bar. Fitted with 610mm flexible pressure hose with locking connector.



D Twin Barrel Foot Pump
Model No. FP4

Professional steel framed foot pump with two Ø50 x 120mm steel barrels. Features large metal pedal for easy operation and control. Easy-to-read dial type pressure gauge calibrated in psi and bar, ranges from 0-100psi and 0-7bar. Fitted with 1020mm flexible pressure hose with locking connector. Supplied with accessories for inflating items such as small inflatable boats, air beds and balls.



E Twin Barrel Foot Pump
Model No. FP6

High power, steel framed foot pump with two Ø45 x 115mm steel barrels. Dial type pressure gauge calibrated in psi and bar and ranges from 0-160psi and 0-10bar. Fitted with 700mm flexible pressure hose with locking connector.

F Workshop Pump
Model No. BC110

Durable construction with chrome plated steel upright tube. Dial type high pressure gauge with rotating bezel. Gauge calibrated in psi and bar with ranges from 0-160psi and 0-11bar. Fitted with twin head for both Presta and Schrader valves and a 360° rotatable hose. Features a wide base for added stability with foldable foot stand. Supplied with accessories for inflating items such as small inflatable boats, air beds and balls stored in a compartment located in the handle.



G Compact Rechargeable Tyre Inflator & Powerbank with Work Light
Model No. CTI120

Compact digital tyre inflator with output of 12L/min. Micro USB rechargeable (cable supplied). USB output for charging mobile phone etc. (5V/2A). Supplied with sports ball pin adaptor, balloon/inflatables adaptor and also a Presta valve adaptor for road bicycle tyres. Preset the desired psi to begin operation and unit will cut-out automatically once that pressure is reached. Auto-cut-out if hose kinks, to avoid damage to pump.

Hose Length:	140mm
Typical Inflation Time:	0-30psi in 619sec (175/70/R13)
Maximum Pressure:	120psi
Airflow:	0.42cfm/12L/min
USB Output:	5V/2A
Battery:	2000mAh 22.2Wh

H 12V Micro Air Compressor with Work Light
Model No. MS163

Compact design incorporating integral storage for air output hose. Features a work light and pressure gauge which reads up to 5.5bar(80psi). Powered by a 12V motor suitable for inflating tyres on motorcycles and cars. Supplied with vehicle accessory socket plug and battery clips.

Hose Length:	100mm
Power Cord Length:	2.8m
Operating Voltage:	12V



G 12V Heavy-Duty Tyre Inflator/Air Compressor
Model No. MAC2300

Housed in rugged composite case. Suitable for inflating tyres on cars, vans and 4x4s. Powered by reliable, heavy-duty motor compressing free air to 30psi at the rate of 45ft³/hr. Integral gauge. Supplied with plug for use in vehicle accessory power socket. Accessory kit, containing Presta type adaptor, ball spike and two adaptors for inflatables included in storage compartment on base.

A - I 12V Heavy-Duty Tyre Inflator/Mini Air Compressors
Model No. SEE BELOW

A range of heavy-duty mini air compressors with delivery between 25L and 95L/min. Air output hose features quick release coupling. Suitable for inflating tyres on lawnmowers, motorcycles, cars, vans, 4x4s and commercial vehicles. Supplied in a storage bag with high pressure hose with screw-on connector and accessory kit including ball needle and adaptors for inflatables.

	A	B	C	D	E	F	G	H	I
Model No:	MAC04D	MAC05D	MAC04	MAC05	MAC06	MAC07	MAC2300	MAC01	MAC03
Hose Length:	2m	4.5m	1.5m	4.5m	7.5m	7.5m	900mm	600mm	650mm
Power Cord Length:	5m	3m	3m	3m	3m	3m	4m	3.3m	3m
Operating Voltage:	12V	12V	12V	12V	12V	12V	12V	12V	12V
Typical Inflation Time:	0-30psi	0-30psi	0-30psi	0-30psi	0-30psi	0-30psi	0-30psi	0-30psi	0-30psi
(175/70/R13)	in 139sec	in 104sec	in 139sec	in 104sec	in 60sec	in 45sec	in 218sec	in 178sec	in 95sec
Maximum Current:	13A	20A	13A	20A	33A	40A	10A	8.5A	20A
Power Connection:	Accessory Plug	Battery Clamps	Accessory Plug	Battery Clamps	Battery Clamps	Battery Clamps	Accessory Plug	Supply Lead	Accessory Plug
Maximum Pressure:	100psi	100psi	100psi	150psi	150psi	150psi	200psi	-	-

J 12V Tyre Inflator & Emergency Puncture Sealant Kit
Model No. MAC10S

Emergency kit includes 12V compressor, 450ml sealant bottle, accessories for inflatables, instructions and zipped storage bag fitted with hook and loop fastening for smart storage. Can seal a puncture up to 6mm at the roadside in under 10 minutes. Sealant is manufactured from natural rubber, meaning tyre can be washed out at the point of a professional repair. Very simple-to-use kit requires no tools, no need to remove the valve core and is TPMS safe. Plugs into a 12V vehicle accessory socket. Replacement sealant bottle available - Sealey Model No. MAC10SR. Suitable for cars, vans and 4x4s.

Power Cord Length:	3m
Operating Voltage:	12V
Maximum Current:	10A
Maximum Pressure:	100psi



H 12V Tyre Inflator/Mini Air Compressor with Work Light
Model No. MAC01

12V Mini air compressor with delivery of 25L/min. Integral storage for supply lead and air output hose. Features work light for use in low light areas. Light can also be set to flash for emergency use. Pressure gauge reads up to 8bar/120psi. Suitable for inflating tyres on cars, vans and 4x4s.



I 12V Twin Cylinder Tyre Inflator/Mini Air Compressor with Work Light
Model No. MAC03

Mini air compressor with delivery of 45L/min. Twin cylinder design improves air delivery compared to a single cylinder unit. Integral storage for air output hose. Features work light for use in low light areas. Pressure gauge reads up to 6bar/80psi. Suitable for inflating tyres on cars, vans and 4x4s. Supplied with 3m power cord with plug for use in vehicle accessory socket, 650mm high pressure hose with screw-on connector and accessory kit including ball needle and adaptors for inflatables.

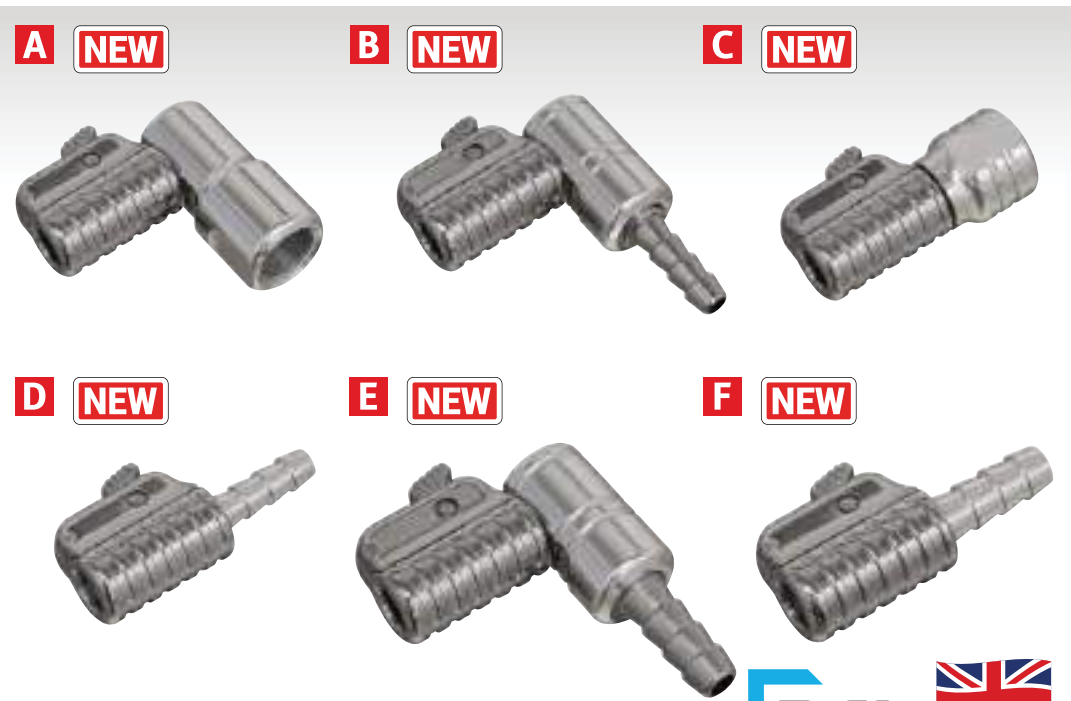
Table shows the approximate time taken to inflate a flat 13" standard tyre to 30psi and current draw at 40psi.



K 450ml Replacement Tyre Sealant & Hose
Model No. MAC10SR

Emergency tyre sealant refill with hose for Sealey Model No. MAC10S. Can seal a puncture up to 6mm. Sealant is manufactured from natural rubber, meaning tyre can be washed out at the point of a professional repair. TPMS Safe. Suitable for cars, vans and 4x4s.

Maximum Pressure:	100psi
-------------------	--------



A - F Tyre Inflator Clip-On Connectors
Model No. **SEE RIGHT**

Quick release coupling design with 360° swivel motion, for tyre inflators, wall gauges and portable gauges. Simple but effective thumb push-button quick release. Suitable to replace the connector on any tyre inflator with either a 1/4" BSP (M) 6mm (1/4") or 8mm (5/16") bore hose. 90° Angled connector for the difficult to reach valves.

Model No:	Description:
A PCL6A	Angled Swivel - 1/4" BSP (F)
B PCL6AT	Angled Swivel - 6mm (1/4") Bore
C PCL6S	Straight Swivel - 1/4" BSP (F)
D PCL6ST	Straight Swivel - 6mm (1/4") Bore
E PCL8A	Angled Swivel - 8mm (5/16") Bore
F PCL8S	Straight Swivel - 8mm (5/16") Bore



G TPMS Service Pack Tool Kit
Model No. **TSTKIT**

Complete selection of tools for replacing the service pack on snap-in and clamp-in TPMS sensors which is recommended each time a tyre is changed. Essential tool for making sure the screws, valve core and nut are torqued to the manufacturer's specifications. Features a grommet tool which is used for the removal/installation from the TPMS stem without damaging the grommet. Supplied with calibration certificate for torque screwdriver.

Drive:	1/4" Sq
Screwdriver Minimum Torque:	1Nm
Screwdriver Maximum Torque:	9Nm
Contents:	Torque Screwdriver, Torque Limited Tyre Valve Tool 4lb.in (0.45Nm), Grommet Removal/Installation Tool, 1/4" Sq Drive Sockets; 11, 12mm, TRX-Star* - T10, T15, T20, Bit Holder
Torque Screwdriver Accuracy:	±1%



H Professional Air Qube Digital Tyre Inflator with OPS & Nitrogen Purge
Model No. **SA390**

Robust, high reliability and modern design which is space-saving and lightweight. Touch screen technology with human touch recognition software. Electronic pressure set with additional 4-button memory function. Three modes, inflate, deflate and over pressure setting (OPS) – which allows operator to set the machine to automatically seat the bead on new tyres whilst getting on with alternative work. The inclusion of the nitrogen (N2) purge facility allows the unit to increase the effectiveness of this increasingly popular tyre service. Red flashing light, flashing screen and audio signal for end of cycle. Auto-start Inflation. Ceramic sensor gives guaranteed accuracy to ± 0.5% of full scale reading even with hoses up to 50m in length. 21mm Backlit transfective LCD gives a clear easy-to-read display. Supplied with a wall bracket, 5m hose with new patented design clip-on connector and 3-pin plug.

Range:	0-12bar (0-174psi, 0-12.2kg/cm², 0-1200kPa)
Maximum Air Supply:	12bar (174psi, 12.2kg/cm², 1200kPa)
Inlet Size:	1/4" BSP
Pressure Units:	bar, psi, kg/cm², kPa
Temperature Range:	-25°C to +55°C
Supply:	230V

230V 0-174psi



A - B Tyre Inflators

Model No. [SEE BELOW](#)

Composite bodies and dial type gauge with rubber protector. Calibrated in bar and psi. Fitted with 500mm rubber hose and connector.

	A	B
Model No:	SA9302	SA9312
Type:	Clip-On	Twin Push-On
Range:	0-10bar (0-145psi)	0-10bar (0-145psi)
Max. Air Supply :	12bar(175psi)	12bar(175psi)
Inlet Size:	1/4"BSP	1/4"BSP



C - D Jumbo Tyre Inflators

Model No. [SEE BELOW](#)

Composite bodies and dial type jumbo gauge with rubber protector. Displays in bar and psi. Fitted with 400mm rubber hose and connector.

	C	D
Model No:	SA9303	SA9313
Type:	Clip-On	Twin Push-On
Range:	0-6.9bar (0-100psi)	0-11bar (0-160psi)
Max. Air Supply:	6.9bar(100psi)	11bar(160psi)
Inlet Size:	1/4"BSP	1/4"BSP



E - F Tyre Inflators with Clip-On Connector

Model No. [SEE BELOW](#)

Die-cast bodies and dial type gauge (Model No. SA400 has a digital gauge) with rubber protector. Model No. SA399 features a glow in the dark measuring scale. Fitted with 500mm rubber hose and single clip-on connector.

	E	F
Model No:	SA399	SA400
Type:	Clip-On	Clip-On
Pressure Units:	psi, bar	psi, bar, kPa and kg/cm²
Range:	0-7bar (0-100psi)	0-10bar (0-150psi)
Max. Air Supply :	170psi	250psi
Inlet Size:	1/4"BSP	1/4"BSP
Battery:	-	2 x AAA



G Tyre Inflator with Clip-On Connector

Model No. [SA924](#)

Die-cast body and dial type gauge with rubber protector. Fitted with single clip-on connector.

Range:	0-10bar(0-145psi)
Max. Air Supply:	12bar(175psi)
Inlet Size:	1/4"BSP

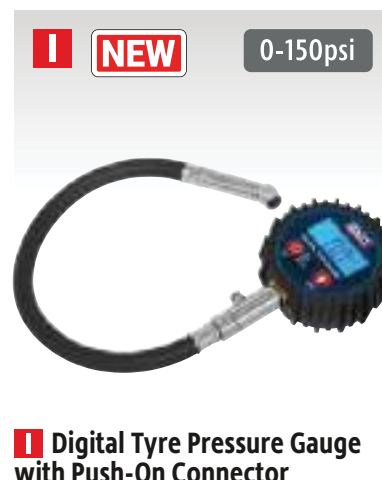


H Digital Tyre Pressure Gauge with Swivel Head & Quick Release

Model No. [TST001](#)

Die-cast body and digital type gauge with rubber protector. Displayed in psi, bar, kPa and kg/cm². Pressure release valve. Auto-power-off function. Rigid type swivel head with quick release.

Battery:	2 x AAA (supplied)
Pressure Units:	psi, bar, kPa and kg/cm²
Resolution:	1psi
Scale:	0-150psi

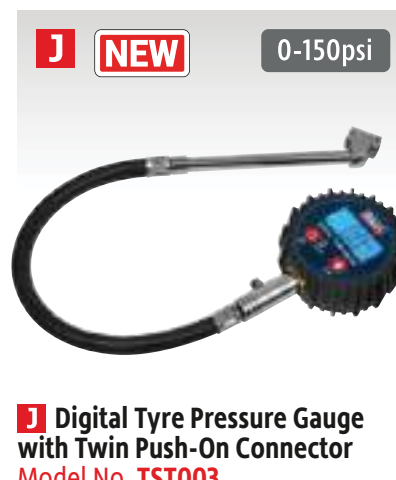


I Digital Tyre Pressure Gauge with Push-On Connector

Model No. [TST002](#)

Die-cast body and digital type gauge with rubber protector. Displayed in psi, bar, kPa and kg/cm². Pressure release valve. Auto-power-off function. Swivel head with hose and push-on connector.

Battery:	2 x AAA (supplied)
Pressure Units:	psi, bar, kPa and kg/cm²
Resolution:	1psi
Scale:	0-150psi

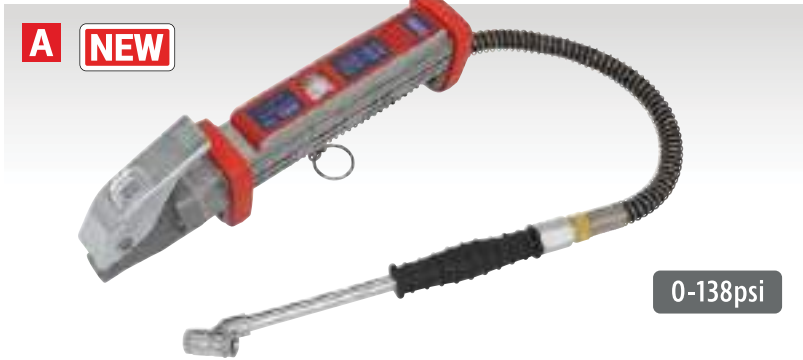


J Digital Tyre Pressure Gauge with Twin Push-On Connector

Model No. [TST003](#)

Die-cast body and digital type gauge with rubber protector. Displayed in psi, bar, kPa and kg/cm². Supplied with a protective soft rubber cover with hose and twin push-on connector. Pressure release valve. Auto-power-off function.

Battery:	2 x AAA (supplied)
Pressure Units:	psi, bar, kPa and kg/cm²
Resolution:	1psi
Scale:	0-150psi



A Tyre Inflator with 0.5m Hose & Twin Push-On Connector
Model No. SA371

Manufactured to comply with EN 12645. Aluminium body with rubber bumper. Linear pressure scale, dual calibrated in psi and bar, with parallax correction. 0.5m Flexible hose fitted with 240mm, twin push-on air connector.

Range:	0-9.5bar(0-138psi)
Maximum Air Supply:	15bar(218psi)
Minimum Air Supply:	5.5bar(80psi)
Inlet Size:	1/4"BSP



C Digital Tyre Inflator with 0.5m Hose & Twin Push-On Connector
Model No. SA374

Die-cast aluminium body with large rubber bumper, backlit LCD digital display and battery level indicator. Auto-power-off after 8 seconds and auto-power-on once pressure is sensed, or air inflation starts. 0.5m Flexible hose fitted with 240mm push-on air connector.

Range:	0-12bar(0-174psi)
Maximum Air Supply:	13.8bar(200psi)
Inlet Size:	1/4"BSP
Pressure Units:	bar, psi, kPa
Battery:	2 x AAA (supplied)



E - G Heavy-Duty Tyre Inflators
Model No. SEE RIGHT

Heavy-duty extruded aluminium bodies and zinc heads. Linear pressure scale, read in psi and bar. Model No. SA39 has 0.5m rubber hose with steel protection sleeve with twin push-on air connector. SA395 has 0.5m rubber hose with steel protection sleeve with clip-on air connector. SA396 has 2.7m hose with clip-on air connector for compliance with safety regulations relating to inflation of commercial and agricultural vehicle tyres.



B Tyre Inflator with 2.7m Hose & Clip-On Connector
Model No. SA372

Manufactured to comply with EN 12645. Aluminium body with rubber bumper. Linear pressure scale, dual calibrated in psi and bar, with parallax correction. 2.7m Flexible hose fitted with clip-on air connector.

Range:	0-9.5bar(0-138psi)
Maximum Air Supply:	15bar(218psi)
Minimum Air Supply:	5.5bar(80psi)
Inlet Size:	1/4"BSP



D Digital Tyre Inflator with 2.7m Hose & Clip-On Connector
Model No. SA375

Die-cast aluminium body with large rubber bumper, backlit LCD digital display and battery level indicator. Auto-power-off after 8 seconds and auto-power-on once pressure is sensed, or air inflation starts. 2.7m Flexible hose fitted with clip-on air connector.

Range:	0-12bar(0-174psi)
Maximum Air Supply:	13.8bar(200psi)
Inlet Size:	1/4"BSP
Pressure Units:	bar, psi, kPa
Battery:	2 x AAA (supplied)



	E	F	G
Model No:	SA39	SA395	SA396
Type:	Push-On	Clip-On	Clip-On
Hose Length:	0.5m	0.5m	2.7m
Range:	0-9.5bar(0-140psi)	0-9.5bar(0-140psi)	0-9.5bar(0-140psi)
Min. Air Supply:	6.9bar(100psi)	6.9bar(100psi)	6.9bar(100psi)
Max. Air Supply:	13.8bar(200psi)	13.8bar(200psi)	13.8bar(200psi)
Inlet Size:	1/4"BSP	1/4"BSP	1/4"BSP

A



2 YEAR
GUARANTEE*

PCL


Made in Great Britain

0-140psi

B



0-140psi

A

B

A - B Professional Tyre Inflators
Model No. **SEE RIGHT**

Manufactured to comply with EN 12645. Aluminium body with rubber bumper. Linear pressure scale, dual calibrated in psi and bar, with parallax correction. Model No. SA37/93 has 0.5m flexible hose fitted with 240mm twin push-on air connector. Model No. SA37/94 has 2.5m hose with clip-on air connector for compliance with safety regulations relating to inflation of commercial and agricultural vehicle tyres. Supplied with a serial numbered calibration certificate.

Model No:	SA37/93	SA37/94
Type:	Push-On	Clip-On
Hose Length:	0.5m	2.5m
Range:	0-9.6bar(0-140psi)	0-9.6bar(0-140psi)
Min. Air Supply:	5.5bar(80psi)	5.5bar(80psi)
Max. Air Supply:	15bar(218psi)	15bar(218psi)
Inlet Size:	1/4"BSP	1/4"BSP

C

NEW


Made in Great Britain

PCL

0-140psi



2 YEAR
GUARANTEE*

C Tyre Inflator with 2.5m Hose & Twin Clip-On Connector
Model No. **SA37/95**

Die-cast aluminium body with large rubber bumper. Linear pressure scale, dual calibrated in psi and bar, with parallax correction. 2.5m Flexible hose fitted with twin lock-on air connector. Supplied with a serial numbered calibration certificate.

Range:	0-9.6bar(0-140psi)
Maximum Air Supply:	15bar(218psi)
Minimum Air Supply:	5.5bar(80psi)
Inlet Size:	1/4"BSP

D

NEW


Made in Great Britain

PCL

0-140psi



3 YEAR
GUARANTEE*

D Anodised Tyre Inflator with Twin Push-On Connector
Model No. **SA37/93B**

Manufactured to comply with EN 12645. Aluminium body with rubber bumper. Linear pressure scale, dual calibrated in psi and bar, with parallax correction. 0.5m Flexible hose fitted with 240mm twin push-on air connector. Supplied with a serial numbered calibration certificate.

Range:	0-9.6bar(0-140psi)
Maximum Air Supply:	15bar(218psi)
Minimum Air Supply:	5.5bar(80psi)
Inlet Size:	1/4"BSP

E

NEW


Made in Great Britain

PCL

4-250psi



3 YEAR
GUARANTEE*

Premier

E Premier Anodised Digital Tyre Inflator with Twin Push-On Connector
Model No. **SA37/96B**

Anodised black aluminium body with impact absorbing rubber bumper. Features auto-power-on/power-off backlit LCD digital display for ease of use. Calibrated in psi, bar and kPa. 0.5m Flexible hose fitted with 240mm twin push-on air connector. Features a battery level indicator, powered by 2 x AAA batteries (supplied). Supplied with a serial numbered calibration certificate.

Range:	0.3-17.2bar(4-250psi, 30-1720kPa)
Maximum Air Supply:	17.2bar(250psi)
Inlet Size:	1/4"BSP

F

NEW



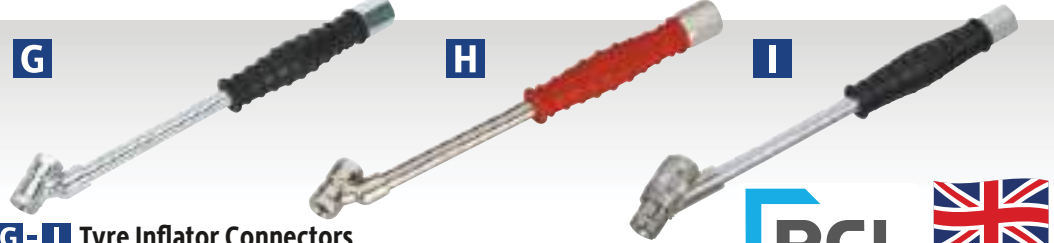
F Clip-On Connector for Tyre Inflators 1/4"BSP Fitting
Model No. **SA37/C**

Compatible with many brands of tyre inflator fitted with a 1/4"BSP male connector on the end of the hose. Suitable for Sealey Model No's SA39, SA371, SA372, SA374, SA375, SA397, SA399, SA37/93 and SA37/95.


G

H

I



PCL


Made in Great Britain

G - I Tyre Inflator Connectors
Model No. **SEE BELOW**

Suitable for many brands of tyre inflator fitted with a 1/4"BSP male connector on the end of the hose. Suitable for Sealey Model No's SA39, SA371, SA372, SA374, SA375, SA397, SA399, SA37/93 and SA37/95.

Model No:	Description:
G SA37/C/O	Push-On Connector - Open
H SA37/C/C	Push-On Connector - Closed
I SA37/C/CLIP	Clip-On Connector



A Digital Tyre Pressure Gauge with Swivel Head & Quick Release

Model No. TST001

Die-cast body and digital type gauge with rubber protector. Displayed in psi, bar, kpa and kg/cm². Pressure release valve. Auto-power-off function. Swivel head rigid type with quick release.

Pressure Units:	psi, bar, kpa and kg/cm ²
Resolution:	1psi
Scale:	0-150psi
Battery:	2 x AAA (supplied)



B Digital Tyre Pressure Gauge with Push-On Connector

Model No. TST002

Die-cast body and digital type gauge with rubber protector. Displayed in psi, bar, kpa and kg/cm². Pressure release valve. Auto-power-off function. Swivel head with hose and push-on connector.

Pressure Units:	psi, bar, kpa and kg/cm ²
Resolution:	1psi
Scale:	0-150psi
Battery:	2 x AAA (supplied)



C Digital Tyre Pressure Gauge with Twin Push-On Connector

Model No. TST003

Die-cast body and digital type gauge with rubber protector. Displayed in psi, bar, kpa and kg/cm². Supplied with hose and twin push-on connector. Pressure release valve. Auto-power-off function.

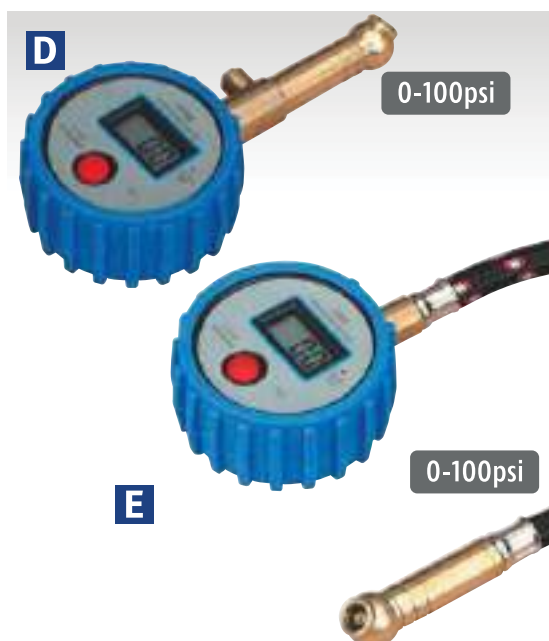
Pressure Units:	psi, bar, kpa and kg/cm ²
Resolution:	1psi
Scale:	0-150psi
Battery:	2 x AAA (supplied)

D - E Digital Tyre Pressure Gauges

Model No. SEE BELOW

Push-on type tyre pressure gauges with 8mm digit LCD display calibrated in psi. Pressure release valve. Single lithium cell will run approximately 4000 test cycles. Auto-power-off function with low battery indication. Available as either swivel head rigid Model No. TST/PG98 or flexible leader hose Model No. TST/PG981, both with push-on chuck.

D Model No:	TST/PG98
Type:	Swivel Head Rigid
E Model No:	TST/PG981
Type:	Swivel Head with Flexible Leader Hose
Scale:	0-100psi
Accuracy:	±1% Full Scale
Resolution:	0.5psi
Operating Temperature:	-10°C to 40°C
Battery:	1 x CR2032 (supplied)
Connector Length:	Rigid 70mm, Flexible 300mm



F Tyre Pressure Gauge with Clip-On Connector

Model No. TST/PG6

Robust gauge with protective rubber bumper. Supplied with clip-on connector.

Scale:	0-7bar(0-100psi)
--------	------------------

TAKE TYRE SAFETY SERIOUSLY!

Check your tyre pressures regularly. An under or over inflated tyre can add to your fuel consumption and cause additional wear. Both are dangerous. Visit www.tyresafe.org for more tyre safety advice.



G Tyre Pressure Gauge with Twin Connector

Model No. TSTPG34

Pressure gauge with twin connector, reading up to 15bar(220psi). Metal body, long reach connector and high range scale. Compatible with both cars and commercial vehicles.

Scale:	0-15bar(0-220psi)
Accuracy:	±3.5psi
Arm Length:	120mm



H Tyre Pressure & Tread Depth Gauge

Model No. TSTPDG01

Robust gauge with protective rubber bumper reading up to 8bar(120psi). Fitted with 45° angle chuck and pressure release button. Integral colour-coded tyre depth gauge.

Scale:	0-8bar(0-120psi)
Accuracy:	±3%
Tyre Depth Range:	0-10mm



I Tyre Pressure & Tread Depth Gauge with Flexible Hose

Model No. TSTPDG02

Robust gauge with protective rubber bumper reading up to 8bar(120psi). Fitted with 335mm armoured flexible hose and pressure release button. Integral colour-coded tyre depth gauge.

Scale:	0-8bar(0-120psi)
Accuracy:	±3%
Tyre Depth Range:	0-10mm



A Digital Tyre Pressure & Tread Depth Gauge
Model No. TSTPG11

Tyre pressure gauge with integral tread depth gauge and work light. Push-button operation with backlit LED display for tyre pressure. Read-out available in bar, psi, kg/cm² or kPa. Integral tread depth gauge reads up to 20mm. Auto-power-off.

Scale:	0.21-10.3bar(3-150psi, 0.21-10.5kg/cm ² , 21-1034kPa)
Resolution:	0.5psi
Accuracy:	±1psi
Pressure Units:	bar, psi, kg/cm ² , kPa
Tread Depth Range:	0-20mm
Battery:	2 x CR2032 3V (supplied)



B Digital Tyre Pressure & Tread Depth Gauge
Model No. TSTPG7

Ergonomically designed, robust, tyre pressure gauge with integral tread depth gauge. Rubber grips fit comfortably in the hand. Push-button operation with backlit LED display for tyre pressure. Read-out available in bar, psi, kg/cm² or kPa. Integral tread depth gauge reads up to 22mm. Auto-power-off.

Scale:	0.21-6.9bar(3-99.5psi, 0.21-7.03kg/cm ² , 21-690kPa)
Resolution:	0.5psi
Accuracy:	±1.5psi
Pressure Units:	bar, psi, kg/cm ² , kPa
Tread Depth Range:	0-22mm
Battery:	2 x LR44 1.5V (supplied)



C Digital Tyre Pressure & Tread Depth Gauge with LED
Model No. TSTPG12

3-in-1 Pocket size tyre gauge with removable keyring. Simple one-button operation with easy-to-read large backlit LCD display. Tread depth function gives high accuracy readings in mm or inches as well as a simple-to-read traffic light system for wear indication. Precise tyre pressure readings can be displayed in bar, psi, kPa and kg/cm². Equipped with a bright LED and auto-power-off feature.

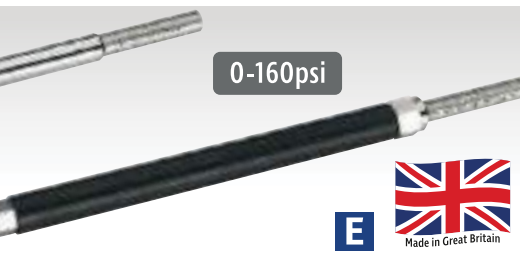
Scale:	0.3-10.3bar(5-150psi, 34-1034kPa, 0.35-10.5kg/cm ²)
Pressure Units:	bar, psi, kPa, kg/cm ²
Resolution:	0.5psi
Tread Depth Range:	0-15.5mm
Battery:	2 x CR2032 (supplied)



D Universal Deluxe Tyre Pressure Gauge
Model No. TST/PG3

Designed for twin tyres but suitable for all cars and commercial vehicles. Precision engineered and fitted with large filter to protect operating mechanism for hard usage over long periods. Fully polished mirror finish.

Scale:	0-11bar(0-160psi)
---------------	-------------------



E Universal Deluxe Tyre Pressure Gauge
Model No. TST/PG4

Designed for twin tyres but suitable for all cars and commercial vehicles. Precision engineered and fitted with large filter to protect operating mechanism for hard usage over long periods.

Scale:	0-11bar(0-160psi)
---------------	-------------------



F Digital Tyre Pressure Gauge
Model No. TSTPG10

Ergonomically designed lightweight tyre pressure gauge. Single push-button operation with LCD digital display. Read-out available in bar, psi, kg/cm² or kPa. Auto-power-off feature.

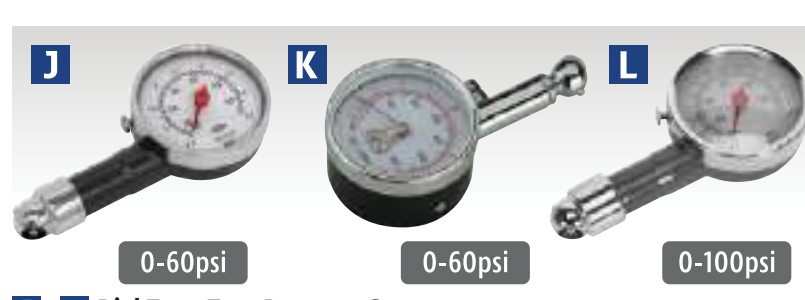
Scale:	0-7bar(0-100psi, 0-0.7kg/cm ² , 0-70kPa)
Resolution:	0.1psi
Accuracy:	±1% Full Scale
Pressure Units:	bar, psi, kg/cm ² , kPa
Battery:	1 x CR2032 (supplied)



G-H Tyre Pressure Gauges
Model No. SEE BELOW

Pencil type gauges with psi scale. Features valve deflator and pocket-clip. Suitable for use as a guide.

Model No:	Scale:
G TSTPG1	5-50psi
H TSTPG8	6-50psi
I TSTPG9	6-50psi



J-L Dial Type Tyre Pressure Gauges
Model No. SEE BELOW

Dial type pressure gauges with metal body. TST/PG97 and TSTPG43 feature offset valve connector. TST/PG99 fitted with 45° angle chuck.

Model No:	TST/PG97	TST/PG99	TSTPG43
Scale:	0-4.5bar(0-60psi)	0-4bar(0-60psi)	0-100psi(7kg/cm ²)
Accuracy:	±2psi	±1.6psi	±3psi



A Digital Tyre Tread Depth Gauge
DVSA Approved
Model No. VS0563



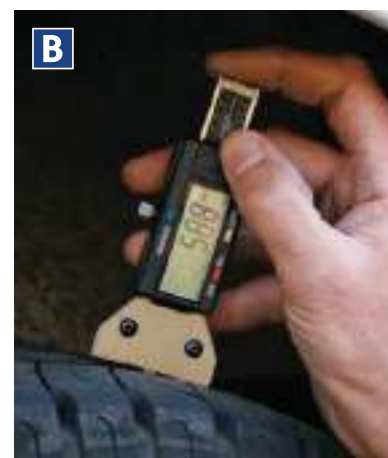
Calibrated and DVSA approved for use when testing all classes of vehicle. Hardened and tempered stainless steel gauge. Metric and Imperial calibration with conversion between the two. Zero reset control allows for comparative measurement. Includes flat surface plate for accurate zeroing of gauge prior to use. Supplied in storage case.



B Digital Tyre Tread Depth Gauge
Model No. VS0560

Hardened and tempered stainless steel gauge. 11mm High figures in LCD display for ease of reading. Metric and Imperial calibration with conversion between the two. Zero setting control allows for comparative measurement. Supplied in storage case.

Range:	0-10mm(0-0.4")
Resolution:	0.01mm(0.0005")
Accuracy:	±0.01mm(0.0005")
Battery:	CR2032 (supplied)



Range:	0-25mm(0-1")
Resolution:	0.01mm(0.0005")
Accuracy:	±0.02mm(0.001")
Battery:	SR44 - 1.5V (supplied)

MODEL NO. VS0563 DVSA APPROVED DEPTH GAUGE CALIBRATION CERTIFICATE

Model No. VS0563 has DVSA Approval which covers the initial calibration of the tool at the factory. The unit is supplied in a sealed box. Once the seal is broken the calibration cannot be guaranteed. We do not supply a certificate of calibration for this initial period. We recommend that the unit is returned to us annually for re-calibration. A test certificate can be issued at this point. Quote Model No. VS0563CAL.



C Digital Tyre Tread Depth Gauge Pin Tip
Model No. VS0565

Hardened and tempered stainless steel gauge. 11mm High figures in LCD display for ease of reading. Metric and Imperial calibration with conversion between the two. Zero setting control allows for comparative measurement. Pin type tread-probe. Supplied with calibration certificate and storage case.

Range:	0-25mm(0-1")
Resolution:	0.01mm(0.0005")
Accuracy:	±0.02mm(±0.001")
Battery:	SR44 - 1.5V (supplied)



D Digital Tyre Tread Depth Gauge
Model No. VS0564

Tough composite sliding gauge. 10mm High figures in LCD display for ease of reading. Metric and Imperial calibration with conversion between the two. Zero setting control allows for comparative measurement.

Range:	0-25mm(0-1")
Resolution:	0.01mm(0.0005")
Accuracy:	±0.02mm(0.001")
Battery:	LR44 - 1.5V (supplied)



E 450ml Replacement Tyre Sealant & Hose
Model No. MAC10SR

See page 571 for full details.



F Tyre Tread Depth Gauge - Pocket Type
Model No. TST/DGE

Chromed steel body with pocket-clip. Scale from 0 to 25mm in 1mm (0-1" in 1/32") graduations.

Range:	0-25mm(0-1")
---------------	--------------



G Tyre Tread Depth Gauge - DVSA Approved
Model No. TST/DG

Chromed steel body with pocket-clip. DVSA Approved depth scale includes 1.6mm graduation for minimum tyre tread requirements. Scale from 0 to 26mm in 1mm graduations.

Range:	0-26mm
---------------	--------



A Tyre Valve Service Tool
Model No. TST/VT

Phosphate finish with knurled body. Cleans and restores internal and external threads, and also includes valve core removal tool.



B Tyre Valve Core Tool
Model No. TST/VCT

Used for removal and installation of the core from a wheel valve. Features easy grip handle and ideal for the busy workshop. Suitable for motorcycles, cars and commercial vehicles.

Length: 97mm



C Torque Limited Tyre Valve Tool
Model No. TST18

Pocket size tool specifically designed to prevent over tightening of valve cores fitted to wheels/tyres with TPMS. Over-torquing can easily damage delicate pressure sensor packs, causing expensive repairs.

Preset Torque: 0.48Nm(4lb.in)



D Alloy Rim Tyre Valve Installer
Model No. TST04

Simplifies installation of tyre valves in tubeless wheels. Pulls tyre valve assembly through rim. Shank is notched to accommodate various rim styles. Manufactured from resilient nylon to minimise damage and marking to alloy wheels. Features a valve core removal tool mounted in the base of the handle.

Length: 270mm



E Aluminium Tyre Valve Core Tool with Magnet
Model No. TST03

Aluminium

Used for removal and installation of the core from a wheel valve. Features aluminium handle with magnet and retainer mounted in the head to retain the valve core. Suitable for motorcycles, cars and commercial vehicles.

Length: 210mm
Head Size: Ø4.4mm



F 14pc Wheel Locating Guide Set
Model No. SX211

Set includes seven pairs of locating guides, designed to help align and mount the wheel. Supplied in storage case. For distribution to bona fide vehicle dealers and repair centres only.

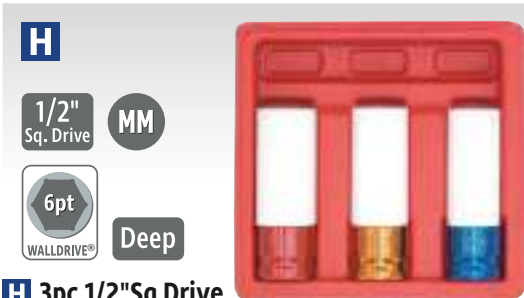
Thread Sizes: Male Thread; M12 x 1.25mm, M12 x 1.5mm, M12 x 1.75mm, M14 x 1.25mm, M14 x 1.5mm, M16 x 1.5mm, Female Thread; M12 x 1.5mm



G Tyre Valve Installer
Model No. TST/TVI

Simplifies installation of tyre valves in tubeless wheels. Pulls tyre valve assembly through rim. Shank is notched to accommodate various rim styles. Strong 270mm long handle with corrosion resistant plating.

Length: 270mm



H 3pc 1/2" Sq Drive Alloy Wheel Impact Socket Set
Model No. SX031

Chrome Molybdenum sockets, hardened, tempered and anodised for corrosion resistance. Suitable for use with impact tools. Each 6-point socket is sleeved and has an insert to prevent damage to alloy wheels and nuts. Colour-coded socket assists ease of size selection. Comprises deep 17, 19 and 21mm sockets.

Type: Deep
Sizes: 17, 19, 21mm



I Stick On Wheel Weight Pliers
Model No. VS0368

Adjustable Jaws for different types of wheel weights. Plastic covered jaws and hammer help protect the alloy wheel from damage. Easy and quick to remove stick on wheel weights.



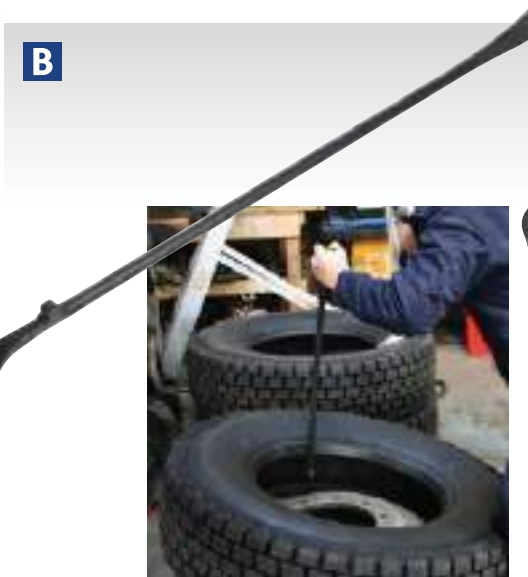
J Wheel Balancing Weight Pliers
Model No. VS0361

Multipurpose tool primarily designed for the installation and removal of wheel balance weights. Also includes tools for prising off wheel trims and preparing wheel balance weights.

Length: 240mm



A 1015mm Tyre Bar for Aluminium Wheels
Model No. TC963
Tyre bar fitted with nylon ferrules to prevent damage to aluminium wheel rims. Suitable for use with Model No's TC960, TC962, TC965 and other makes of manual tyre changer.
Length: 1015mm



B 940mm Tyre Lever
Model No. VSTL940
Carbon steel tyre lever with hook ends. Suitable for use on commercial vehicle tyres.
Length: 940mm



D 600mm Heavy-Duty Tyre Lever
Model No. VSTL10
Carbon steel tyre lever, with hook and taper ends.
Length: 600mm



E Patch Stitch Roller
Model No. TST15
Designed to roll down inner tube and tyre repair patches to remove trapped air and ensure good adhesion. Features a strong wooden handle.
Roller Diameter/Thickness: Ø37/2.5mm



F - J Tyre Levers
Model No. SEE BELOW
Hardened carbon steel tyre levers, with hook and taper ends.

Model No:	Length:
F VSTL300	300mm
G VSTL450	450mm
H VSTL500	500mm
I VSTL590	590mm
J VSTL760	760mm

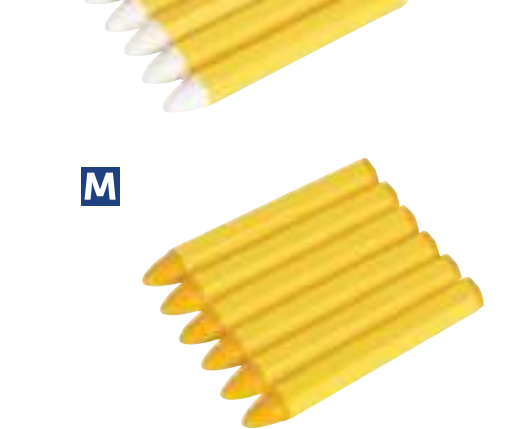
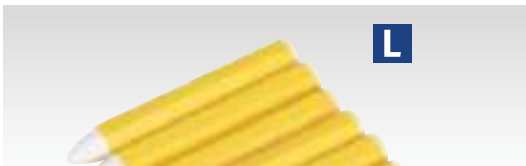


K Tyre Rubber Scraper
Model No. TST16
Essential for the preparation of the inside of a tyre. Ensures a clean surface, removing any debris or silicon before buffing. Use with buffing solution.



C Torque Multiplier Wheel Nut Wrench 65:1
Model No. SX500
Ideal for removing/installing wheel nuts on commercial and light commercial vehicles when air impact wrench is not easily accessible. Supplied in storage case with two impact sockets and 210mm extension.

Output Drive:	1"Sq (Male)
Ratio:	65:1
Maximum Rated Output:	6200Nm



L - M Tyre Marking Crayons - Packs of 6
Model No. SEE BELOW
Suitable for marking tyre damage or areas for repair. Will work on practically any surface including rubber, metal and paint. Paper protective wrapper can be peeled back as crayon wears. Available in either white or yellow.

Model No:	Colour:	Length:
L TST13	White	100mm
M TST14	Yellow	100mm



A Temporary Puncture Repair Kit
Model No. TST10

Ideal for repairing punctures on tubeless tyres fitted to agricultural and off-road vehicles. Can also be used as a temporary/emergency fix on cars and commercial vehicles. Allows the tyre to be repaired without removing the tyre from the wheel. Not to be used as a permanent repair for road vehicles.

Contents: Rasp, Insertion Needle, Repair Strips (x30), Glue



D 12V Heavy-Duty Tyre Inflator/Mini Air Compressor
Model No. MAC04

Mini air compressor with delivery of 25L/min. Air output hose features quick release coupling. Suitable for inflating tyres on cars. Supplied in a storage bag with accessory kit including ball needle and adaptors for inflatables.

Table shows the approximate time taken to inflate a flat 13" standard tyre to 30psi and current draw at 40psi.

Hose Length:	1500mm
Power Cord Length:	3m
Operating Voltage:	12V
Typical Inflation Time: (175/70/R13)	0-30psi in 139sec
Maximum Current:	13A
Power Connection:	Accessory Plug
Maximum Pressure:	100psi



B Temporary Puncture Repair & Service Kit
Model No. TST09

Ideal for repairing punctures on tubed and tubeless tyres fitted to agricultural and off-road vehicles. Can also be used as a temporary/emergency fix on cars and commercial vehicles. Repair strips allow tubeless tyres to be repaired without removing the tyre from the wheel. Also includes parts and tools for general tyre servicing. Not to be used as a permanent repair for road vehicles.

Contents: Temporary Tubeless Repair; Rasp, Insertion Needle, Repair Strips (x10), Tube Repair; Patches - Round Ø30mm (x3), Round Ø57mm (x3), Abrasive Scraper, Glue, Service Items; Valve Caps (x4), Valve Cores (x4), Tools; Tyre Pressure Gauge (10-50psi), Tyre Valve Service Tool



E Tyre Valve Removal/Installation Tool
Model No. TSTVRK

Remove and install leaking tyre valves without having to remove the tyre. Works on steel wheels and especially good for valves on motorcycle or agricultural wheels. Not suitable for high pressure valves.

Contents: Cone, Push/Pull Driver, Valve Hook Tool, Tyre Valve



G Puncture Repair Rasp - Fine
Model No. TST12

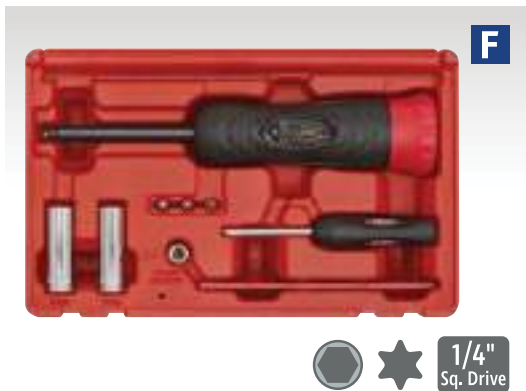
Used to clean and widen the puncture before repairing a tubeless tyre. Suitable for car, commercial, agricultural and off-road vehicle tyres.



C Temporary Puncture Repair Strips - Pack of 60
Model No. TST11

Repair strips for Model No's TST09 and TST10 repair kits.

Length:	100mm
Diameter:	Ø6mm



F TPMS Service Pack Tool Kit
Model No. TSTKIT

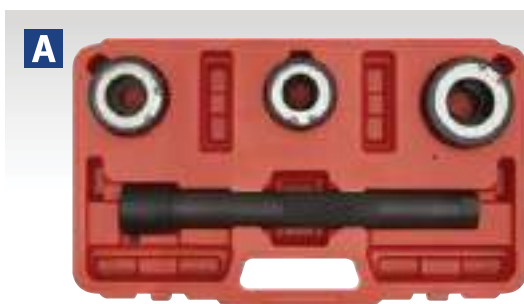
Complete selection of tools for replacing the service pack on snap-in and clamp-in TPMS sensors which is recommended each time a tyre is changed. Essential tool for making sure the screws, valve core and nut are torqued to the manufacturer's specifications. Features a grommet tool which is used for the removal/installation from the TPMS stem without damaging the grommet. Supplied with calibration certificate for torque screwdriver.

Drive:	1/4"Sq
Screwdriver Minimum Torque:	1Nm
Screwdriver Maximum Torque:	9Nm
Contents:	Torque Screwdriver, Torque Limited Tyre Valve Tool 4lb.in(0.45Nm), Grommet Removal/Installation Tool, 1/4"Sq Drive Sockets; 11, 12mm, TRX-Star* - T10, T15, T20, Bit Holder
Torque Screwdriver Accuracy:	±1%



H 4pc TPMS Valve Deflator Tool
Model No. TPMS4

Colour-coded and marked ensuring each tyre pressure monitoring system (TPMS) sensor is fitted back to the correct location on the vehicle, eliminating the risk of having to re-set. Each valve cap is fitted with an internal pin which releases air upon fitment, preventing damage to TPMS sensor.



A 4pc Steering Rack Knuckle Tool Set
Model No. **VS4003**



Suitable for the fast removal/installation of the steering knuckle. Designed to fit over the steering shaft onto the steering rack. Three interchangeable heads fit racks with hex drive, two flats and round ends with a diameter of Ø30 to 45mm.

Length:	405mm
Internal Sleeve Length:	380mm
Drive:	32mm Hex, 1/2"Sq
Head Sizes:	Ø30-35mm, Ø35-40mm, Ø40-45mm



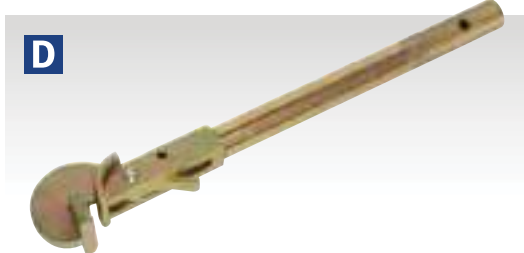
B - C Steering Rack Knuckle Tools
Model No. **SEE BELOW**

Suitable for the fast and easy removal/installation of the steering knuckle. Designed to fit over the steering shaft onto the steering rack. Fits racks with hex drive, two flats and round ends.

B Model No:	VS4001
Length:	470mm
Internal Sleeve Length:	440mm
Drive:	27mm Hex & 1/2"Sq
Head Size:	Ø35.5-41mm



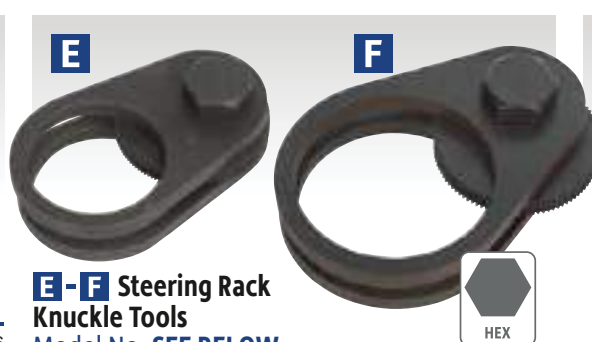
C Model No:	VS4002
Length:	400mm
Internal Sleeve Length:	360mm
Drive:	27mm Hex & 1/2"Sq
Head Size:	Ø29-34mm



D Track-Rod Adjusting Grips
Model No. **VS4005**

Designed for loosening and adjusting stubborn track-rods when making repairs or adjusting the wheel alignment. Ideal when the tie rod has no hex or flats and a spanner cannot be used. Features a spring loaded jaw which grips tighter as more force is applied.

Length:	410mm
Maximum Capacity:	22mm



E - F Steering Rack Knuckle Tools
Model No. **SEE BELOW**

Suitable for fast and easy removal of the steering knuckle. Fits racks with hex drive, two flats and round ends. Ideal for vehicles with limited access and avoids the need to remove the rack assembly.

E Model No:	VS4000
Drive:	19mm Hex
Head Size:	Ø33-41mm
F Model No:	VS4004
Drive:	19mm Hex
Head Size:	Ø40-54mm



G Ball Joint Splitter
Model No. **AK381**

Chemically blackened forged steel body with thrust bolt. Suitable for most small cars and light vans.

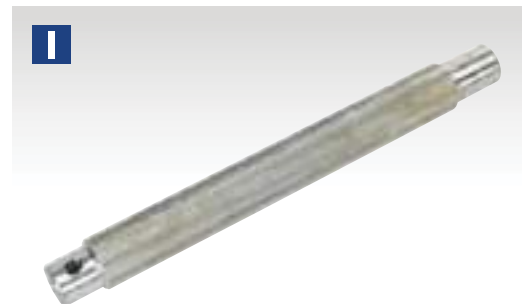
Jaw Capacity:	19mm
---------------	------



H Suspension Arm Lever
Model No. **VS3815**

Suitable for the in situ separation of suspension components with minimum manual effort and maximum efficiency. Fully adjustable fulcrum position allows for use in a variety of positions and caters for left or right-handed use.

Length:	1.2m
---------	------



I Suspension Roller Bar
Model No. **VS3816**

Simple but ingenious tool that tests for movement and wear in suspension components such as ball joints, bearings and bushes. Lower the road wheel on the roller bar using a 1/2"Sq drive breaker bar to rock the road wheel to highlight any movement. Ideal for use on a platform ramp.

Length:	350mm
Diameter:	Ø36mm



MECHANIC'S GLOVES
See page 1247 for details of our Mechanic's Gloves.



A Camber Adjusting Tool
VAG

Model No. **VSE18**

Specially designed tool makes it much easier to access concentric camber adjustment bolts on VAG rear multilink suspension. Tool is designed for use with a 1/2" Sq Drive Ratchet and torque wrench.

Drive: 1/2" Sq

Applications:

Audi: A3 (04on), A4 (01on), A6 (05on), A8 (03on), TT (07on)

Seat: Alhambra (11on), Altea (07on), Toledo (13on), Ibiza (08on), Cordoba (02on), Ateca (16on)

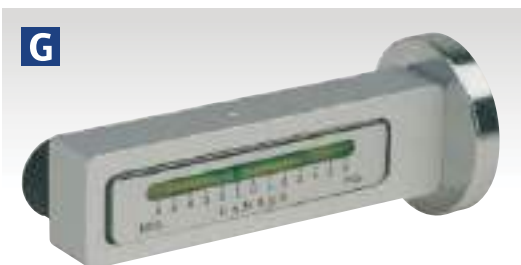
Skoda: Octavia (04on), Superb (08on), Yeti (09on), Citigo (11on)

Volkswagen: Eos (06on), Golf (04on), Jetta (06on), Passat (06on), Polo (02on), Scirocco (09on), Tiguan (08on), Touran (04on)



D Steering Wheel Level
Model No. **GA460**

Used to level the steering wheel before locking into position, prior to checking/adjusting the front wheel alignment. Ideal for use with Four-Wheel Laser Aligners such as Model No. GA70. Self-retaining and centring using a spring loaded mechanism. Features a level bubble to show horizontal position. Suitable for steering wheels with an internal diameter of between Ø270mm and 340mm.



G Magnetic Camber/Castor Gauge
Model No. **GA45**

Robust, magnetic gauge mounts onto hub for quick and accurate measurement of camber and castor angles. Large adjuster knob for convenient zeroing of bubble during castor angle measurement. Graduated from -6° to +6°. Supplied in storage case.

Adjustment: -6° to +6°



B Camber Adjusting Tool
VW/Mercedes-Benz

Model No. **VSE21**

Specially designed wrench makes it much easier to access the shock absorber fitting. Applications: Volkswagen Crafter and Mercedes-Benz Sprinter. 1/2" Sq Drive 21mm Bi-hex profile.

Drive: 1/2" Sq



E Magnetic Camber Castor & Kingpin Gauge
Model No. **GA450**

Robust, magnetic gauge mounts onto hub for quick and accurate measurement of camber, castor angles and kingpin inclination. Two large adjuster knobs, one for conveniently zeroing bubble during angle measurement, and one for adjusting kingpin inclination. Camber gauge with fixed graduation from -5° to +5°. Adjustable castor gauge graduated from -3° to +11°. Kingpin gauge graduated from 0° to 14° left to right. Supplied in storage case.

Camber Gauge Graduation: -5° to +5°

Castor Gauge Graduation: -3° to +11°

Kingpin Gauge Graduation: 0° to 14°

Magnetic Plate Size: Ø85mm



C 1/2" Sq Drive Camber Adjustment Spanner
Mercedes/VW

Model No. **VS9840**

Designed to access hard-to-reach fixings on the suspension strut. Suitable for Volkswagen Crafter and Mercedes Benz Sprinter vans.

Drive: 1/2" Sq

Size: 21mm 12-point



F Manual
Wheel Balancer
Model No. **GA10**

Suitable for balancing all types of wheels with hubs from Ø115mm. Simple to use and requires no power source.

Minimum Hub Size: Ø115mm



H Wheel & Tyre Handling Dolly
Model No. **TH002**

Enables commercial sized wheels and tyres to be removed/installed on hub studs.

Capacity: 127kg

Fork Centres: 535mm

Length: 1225mm

A 4-Wheel Laser Wheel Aligner
Model No. GA70

Fast, simple and accurate alignment of both front and rear wheels. Optimises vehicle performance and set up after installation or modification of steering and suspension components. Ideal for the busy professional workshop and has a fast return on investment - potentially adding value to every steering or suspension job. This fully portable kit is also ideal for track-day set-up. Works on practically all cars and light commercials with rim diameters between Ø330mm(13") and Ø560mm(22"). Supplied with steering wheel clamp, wheel turn plates, wheeled storage rack and comprehensive operating instructions.

Contents: Portable Mounting Storage Rack with Castor Wheels, Laser Alignment Heads (x2), Wheel Alignment Hangers (x2), Dished Turning Plates (x2), Steering Wheel Clamp, 13" Wheel Rim Spacers (x4), 40mm Extension Bobbins (x6)
Optional Calibration Rig: GA70CR
Sealey Calibration Service: GA70CAL



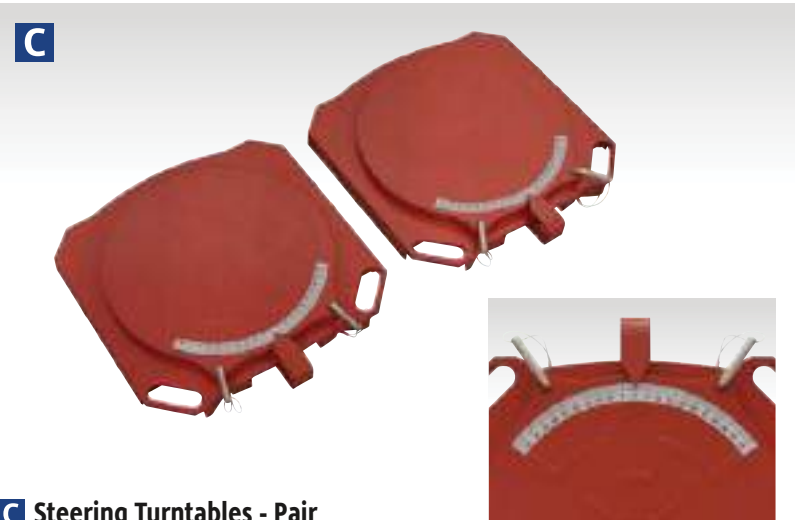
Toe-in Toe-out Alignment



B

B Calibration Rig for GA70
Model No. GA70CR

Used to check and adjust the alignment of the lasers on Model No. GA70 4-Wheel Laser Aligner. This unit will allow workshops to check and adjust in-house. Laser heads secure to the rig and rest on the bobbins that contact the vehicle's wheel rim. Supplied with comprehensive instructions.



C

C Steering Turntables - Pair
Model No. GA44

Use in conjunction with castor kingpin gauge sets for accurate castor and kingpin alignment. Also measures toe-in/out and full lock angles. Locking pins prevent rotation of table whilst driving vehicle on and ensure accurate angular measurements. Measures up to 55° rotation in either direction. Maximum loading 4000kg per pair.

Range: ±55°
Table Size: Ø400mm
Table Height: 50mm
Table Movement: 62mm Front-to-Back, 55mm Side-to-Side
Capacity: 4tonne pair, 2tonne each

A

LASER
SIGHT

WEB
VIDEO



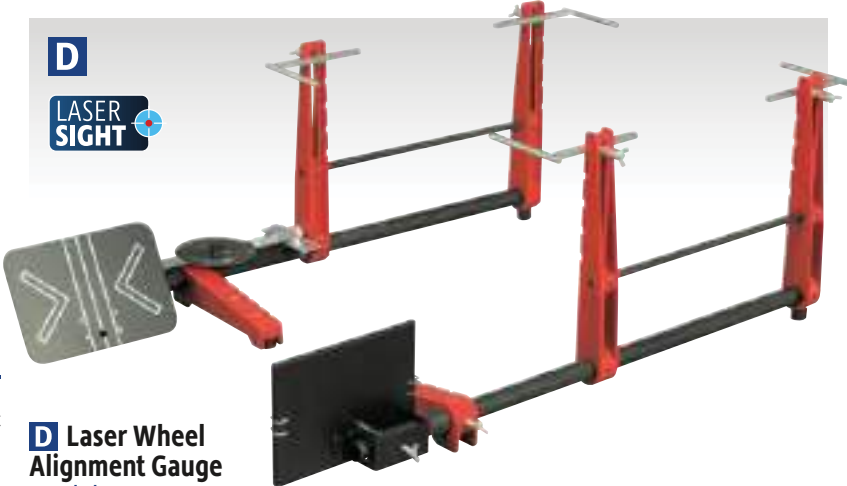
75+ KG
HEAVY ITEM

2-Wheel vs 4-Wheel Alignment

2-Wheel	GA50	4-Wheel	GA70
• Checks toe-in/out on front wheels.		• Checks toe-in/out on front wheels.	
• Fast to use.		• Indexes on rear wheels - eliminates crabbing.	
• Low cost.		• Helps align steering wheel in central position.	
• Does not reference rear wheels.			

D

LASER
SIGHT



D Laser Wheel
Alignment Gauge
Model No. GA50

Optical system uses laser to indicate toe-in or toe-out. Single leg configuration and reversible contact probes allow on-ramp use. Works on practically all cars and light commercials with rim diameters from Ø200mm(8") to Ø600mm(23.5"). Powered by 2 x AA batteries (not included) and includes operating instructions.



A 12V 13-Pin Towing Socket Tester DVSA Approved Model No. TST22

DVSA Approved for use in testing stations on vehicle classes 4, 5 and 7. Quick and simple test of 12V 13-pin Euro-type sockets fitted to the rear of the vehicle. Supplied with 4.9m cable to enable the operator to use the tool whilst sitting in the vehicle. Features self-test facility to ensure the serviceability of the tool. Powered by 12V vehicle supply. Also tests the 12V continuous/ignition live feeds and the reversing lights - not part of the current DVSA test, but useful when diagnosing electrical faults. Includes 13 to 7-pin adaptor for testing older wiring systems.



D Brake & Fuel Pipe Inspection Tool Model No. VS0210

Specially designed for the removal of corrosion from brake and fuel pipes for fast and thorough inspection. Features 12 cleaning edges for different sizes and types of pipes. Includes curved cleaning edges for hard-to-reach areas. MOT Compliant tool.

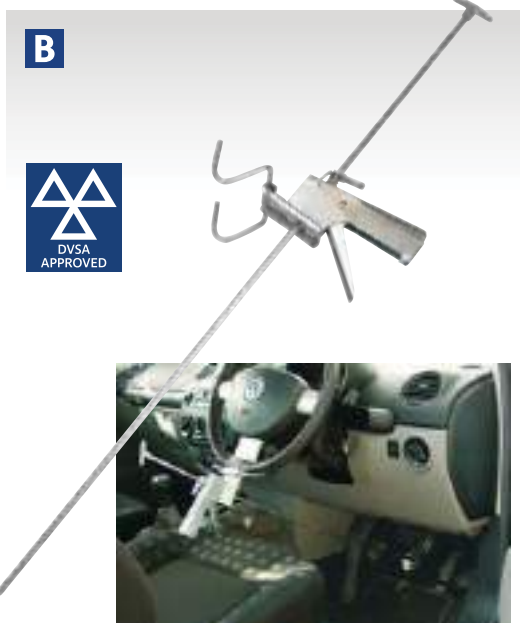
Applications: 4, 4.75mm, 3/16" Pipes



G Light Palm Tactouch Mechanic's Gloves Model No. SEE BELOW

Professional close fitting gloves with touchscreen index fingertips. Unlike conventional mechanic's gloves, they allow precision control when working with small fixings and tools. Soft, breathable and durable with anti-slip palms. Washable materials.

Model No:	Size:
MG798L	Large
MG798XL	X-Large



B Brake Pedal Depressor - DVSA Approved Model No. VS015

DVSA Approved tool, which simplifies vehicle testing by allowing any test that requires the brakes to be applied to be carried out by one person rather than two.

Maximum Length: 740mm



E Corrosion Assessment Hammer DVSA Approved Model No. H1MOT

The only official design of tool fully approved for DVSA use in the UK. Metal shaft and composite body in accordance with DVSA specification. Durable design reduces risk of breakage of joint if dropped. Check for the DVSA approved markings.

Length: 140mm



H 760mm Tyre Lever Model No. VSTL760

Hardened carbon steel tyre lever, with hook and taper ends.

Length: 760mm



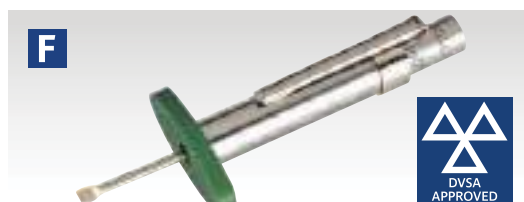
C Digital Tyre Tread Depth Gauge DVSA Approved Model No. VS0563

Calibrated and DVSA approved for use when testing all classes of vehicle. Hardened and tempered stainless steel gauge. Metric and Imperial calibration with conversion between the two. Zero reset control allows for comparative measurement. Includes flat surface plate for accurate zeroing of gauge prior to use. Supplied in storage case.

Range:	0-10mm(0-0.4")
Resolution:	0.01mm(0.0005")
Accuracy:	±0.01mm(0.0005")
Battery:	CR2032 (supplied)

MODEL NO. VS0563 DVSA APPROVED DEPTH GAUGE CALIBRATION CERTIFICATE

Model No. VS0563 has DVSA approval which covers the initial calibration of the tool at the factory. The unit is supplied in a sealed box. Once the seal is broken the calibration cannot be guaranteed. We do not supply a certificate of calibration for this initial period. We recommend the unit is returned to us annually for re-calibration. A test certificate can be issued at this point, Model No. VS0563CAL.



F Tyre Tread Depth Gauge - DVSA Approved Model No. TST/DG

Chromed steel body with pocket clip. DVSA Approved depth scale includes 1.6mm graduation for minimum tyre tread requirements. Scale from 0 to 26mm in 1mm graduations.

Range: 0-26mm



I Ø400mm Wall Mounting Convex Mirror Model No. CM400

Convex mirror for improved visibility. Supplied with wall fixing and swivel joint, allowing for quick and easy positioning. Ideal for use as a safety or security mirror.

Size: Ø400mm



A Headlamp Beam Setter with Rails Model No. HBS97

DVSA Approved for use in testing stations. Classes: I, II, III, IV, V, VII. Suitable for all types of motorcycles, cars and light commercial vehicles. Fixed aiming screen. Internal analogue LUX meter for accurate light intensity measurement. Supplied with rails for MOT use. Supplied with instructions and certificate of approval.

Height:	1750mm
Length:	690mm
Width:	660mm
Rail Length:	2970mm

Model No:	Specification:
HBS97	Motorcycles, Cars, Light Commercial with Rails
HBS97.HGV	Commercial Vehicle with Rails
HBS97R	Rails only
HBS97E	1520mm Extension Rails
HBS97ES	700mm Extension Rails

E MOT Tool Board with Tools Model No. MOTBKIT

Shadow board with MOT approved and compliant tools. Keeps tools organised and in one location. Wall mounting and supplied with fitting kit. Board also available separately with fitting kit and clips - Order Model No. MOTB.

Board Size (W x H):	812 x 404mm
Contents:	
Model No:	Description:
AK989	5m Rubber Measuring Tape
H1MOT	Corrosion Assessment Hammer
MOTB	MOT Board with Fitting Kit & Clips
S0837	400mm Heel Bar
TST/DG	Tyre Tread Depth Gauge
TSTPG8	Tyre Pressure Gauge with Pocket Clip 6-50psi
TST22	13-Pin 12V Towing Socket Tester
VS0210	Brake & Fuel Pipe Inspection Tool
VSTL760	760mm Tyre Lever
WB02	Wire Brush



B Workshop Headlamp Beam Setter Model No. HBS2001

Suitable for pre-MOT inspection in garages and bodyshops. Utilises same optical box and aiming screen as fitted to our DVSA approved headlamp beam setter. Fixed aiming screen. Internal analogue LUX meter for accurate light intensity measurement. Suitable for all types of cars and light commercial vehicles. Fitted with fixed column and rubber wheels.

Height:	1750mm
Length:	620mm
Width:	660mm

D Mini Laser Level Unit Model No. AK9999

Approved for use with Model No. HBS97 MOT Approved Headlamp Beam Setter. Mini tripod can be placed on bonnet or any surface on the test area. Laser dot indicates if beam setter is in or out of calibration. Also suitable for other levelling applications and features a magnet on base for attaching to ferrous surfaces.

Battery:	2 x AAA (supplied)
-----------------	--------------------



C Compact Headlamp Beam Setter Model No. HBS2010

Ideal for the garage or bodyshop where space is limited. Suitable for pre-MOT inspection and fulfils the legal obligation of the garage or bodyshop to return vehicles to the customer in roadworthy condition. Compact design includes shortened mast and view-through aiming device. Suitable for all types of cars, motorcycles and light commercial vehicles (Classes I, II, III, IV, V, VII).

Height:	1380mm
Length:	630mm
Width:	550mm





A Hydraulic Hub Puller Set
Model No. PS993

Puller yoke with 10tonne hydraulic ram. Suitable for four and five stud hubs. Hydraulic ram provides additional power to extract the most stubborn hubs.

Maximum Vehicle Stud Size:	15mm
Minimum/Maximum Stud Spread:	85/128mm
Maximum Centre Bore:	Ø60mm



D Universal Hub Holding Wrench
Model No. VS1490

Universal hub holding wrench. Suitable for four and five stud wheels.



G 37pc Bearing & Seal Installation Kit
Model No. VS7024

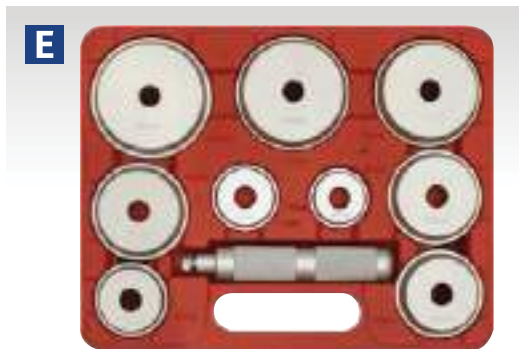
Lightweight design for the installation of bearings without damaging the bearing or housing. Contains three metal bearing drift sleeves and 34 nylon drifts. Can also be used to install oil seals. Fits most sizes of bearing and seals found on modern vehicles. Supplied in storage case.

Drift Sleeve Sizes:	Ø25, 40, 60mm
Drift Sleeve Length:	220mm
Nylon Drift Sizes:	Ø26, 28, 30, 32 (x2), 35 (x3), 37, 40, 42 (x2), 47 (x3), 52 (x2), 55, 60, 62 (x3), 68, 72 (x2), 75, 80 (x2), 82, 85, 90 (x2), 100, 110mm



B 1/2"Sq Drive Universal Hub Puller
Model No. AK713

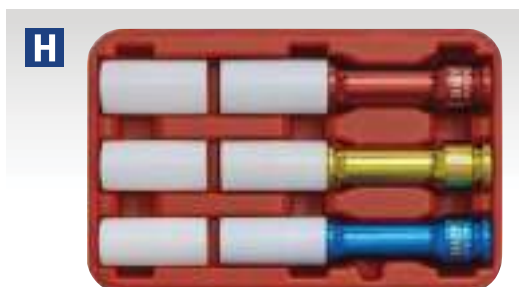
Ductile steel electrodeposition finished body with thrust bolt and tommy bar. Suitable for four and five stud hubs. Use with a 1/2"Sq drive ratchet wrench or with tommy bar supplied.



E 10pc Aluminium Bearing Race & Seal Driver Set
Model No. VS703

Set of nine aluminium bearing and seal drivers. Suitable for straight installation of bearing race without damage to the bearing or axle housing. Fits most popular bearing race sizes.

Driver Sizes: Ø39.5, 44, 50, 59, 63, 64.5, 72, 76, 81mm



H 3pc 1/2"Sq Drive Alloy Wheel Long Reach Impact Socket Set
Model No. SX031D

Chrome Molybdenum sockets, hardened, tempered and anodised for corrosion resistance. Suitable for use with impact tools. Each 6-point socket is sleeved and has an insert to prevent damage to alloy wheels and nuts. Colour-coded socket assists ease of size selection. Comprises deep or long reach 17, 19 and 21mm sockets. Supplied in storage case.

Type:	Long Reach
Sizes:	17, 19, 21mm



C Hub Puller
Model No. AK383

Steel body with thrust bolt. Suitable for hubs with four stud fixings and stud centres between 110 and 115mm.



F 52pc Bearing Race & Seal Driver Set
Model No. VS7032

Set of 49 square edged heavy-duty steel drivers from Ø18mm to Ø74mm. Suitable for installation of bearings or seals without damaging the bearing, seal or housing. Adaptors can also be used in a standard workshop press.

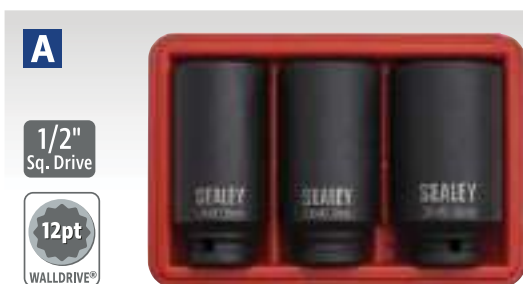
Driver Sizes:	Ø18-65mm (1mm increments), Ø74mm
Contents:	Driver (x49), Punch, Punch Extension, 3mm Hex Key



I 500g Aluminium Anti-Seize Compound Tin
Model No. SCS103

Aluminium anti-seize compound, for use on all studs, nuts, bolts and other threaded connections.

Size:	500g
-------	------



A 3pc 1/2" Sq Drive 12-Point Impact Hub Nut Socket Set Model No. SX051

Heavy-duty, high quality, 12-point, Chrome Molybdenum impact sockets suitable for use with any 1/2" Sq drive impact tool. Blackened finish for added corrosion resistance. Tool suitable for hub nut applications where high torque is required.

Drive:	1/2" Sq
Contents:	30, 32, 36mm



D 36mm 1/2" Sq Drive Impact Hub Nut Socket Model No. SX136

Heavy-duty 6-point specialised stepped 36mm impact socket for removing the front hub nut on Fiat 500 and Ford Ka.

Drive:	1/2" Sq
Size:	36mm 6-point



G Rear Hub Nut Socket Ford Transit Model No. SX138

Heavy-duty 4-point specialised impact socket for removing the rear hub nut on RWD Ford Transit vehicles. Alignment shaft allows accurate location onto castellated nut.

Drive:	1/2" Sq
Stud Width:	6.8mm
Alignment Shaft Diameter:	Ø38mm
Outer Diameter:	Ø70mm
Application:	RWD Ford Transit (2014on)
OEM Tool:	205-1007



J 1-13/16" Deep 1/2" Sq Drive Impact Socket - Imperial Model No. SX002

Forged and heat treated Chrome Vanadium steel impact grade socket, chemically blackened for corrosion resistance.

Drive:	1/2" Sq
Size:	1-13/16" Deep 6-point
Applications:	Ball Joints; Austin Metro



B 5pc 1/2" Sq Drive Impact Hub Nut Socket Set Model No. SX050

Heavy-duty, high quality, Chrome Molybdenum impact sockets suitable for use with any 1/2" Sq drive impact tool. Blackened finish for added corrosion resistance. Tool suitable for hub nut applications where high torque is required.

Drive:	1/2" Sq
Contents:	29, 30, 32, 34, 36mm



E 56mm Bi-Hex 3/4" Sq Drive 12-Point Impact Socket Model No. SX021

Forged and heat treated Chrome Vanadium steel impact grade socket, chemically blackened for corrosion resistance.

Drive:	3/4" Sq
Size:	56mm 12-point
Applications:	Hub Nuts; Ford Transit 130, 150, 190 (93on)



H 1/2" Sq Drive Rear Axle Hub Nut Spanner Mercedes Sprinter Model No. VS4990

Mercedes Sprinter (W901-W905) rear axle hub nut spanner. Tightens the grooved lock nut when replacing wheel bearings. Fitted with a 1/2" Sq Drive if required.

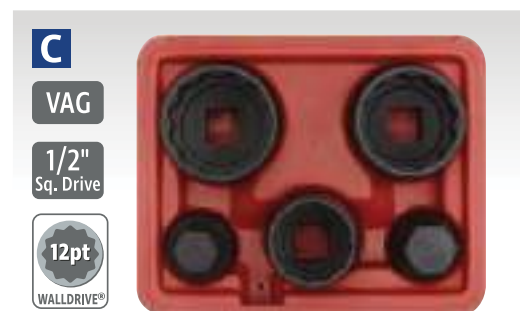
Drive:	1/2" Sq
---------------	---------



K 38mm Deep 1/2" Sq Drive Impact Socket Model No. SX001

Forged and heat treated Chrome Vanadium steel impact grade socket, chemically blackened for corrosion resistance.

Drive:	1/2" Sq
Size:	38mm Deep 6-point
Applications:	Ball Joints & Flywheel Nuts; Rover Group - Austin Mini, 1100/1300



C 5pc 1/2" Sq Drive 12-Point Impact Hub Socket & Socket Bit Set Model No. SX053

High quality Chrome Molybdenum hub impact sockets/hex bits. Specially designed for VAG vehicles. Suitable for use with 1/2" Sq drive impact tools.

Drive:	1/2" Sq
Contents:	Sockets; 24, 30, 32mm, Hex Bits; 14, 17mm



F 65mm 3/4" Sq Drive 12-Point Impact Socket Model No. SX0150

Forged and heat treated Chrome Vanadium steel impact grade socket, chemically blackened for corrosion resistance.

Drive:	3/4" Sq
Size:	65mm 12-point
Applications:	Hub Nuts; Ford Transit



I 52mm Hub Nut Box Spanner - Land Rover Model No. SX011

Ideal for removing and refitting the wheel hub retaining nuts and adjusting the wheel bearing freeplay. Suitable for Land Rover taper roller bearings. Use with bar through the Ø14mm cross-drilled holes.

Size:	52mm
--------------	------



L 52mm 1/2" Sq Impact Socket Model No. SX010

Forged and heat treated Chrome Vanadium steel impact grade socket, chemically blackened for corrosion resistance.

Drive:	1/2" Sq
Size:	52mm 6-point
Applications:	Hub Nuts; Land Rover & Range Rover



B 1250kg Telescopic Spring Compressor Wishbone Suspension
Model No. RE2280

Designed for use on wishbone suspension using access points in the rear suspension arm. Features two pairs of carefully shaped yokes that prevent the coil spring from bowing. Saves time over traditional methods of demounting springs.

Capacity:	1250kg
Size/Suitability:	Ø80-135mm
Jaw Opening:	115-300mm
Drive:	19mm Hex
Applications:	Fiat, Hyundai, Mazda, Mercedes, Mitsubishi, Nissan, Peugeot, Rover, Saab, Toyota, Volvo, VW

A 1000kg Air Operated Coil Spring Compressor
Model No. RE300

Fast and safe compression of road springs. 1000kg Air operated unit with safety locking guard. Supplied with two interchangeable plastic coated lower yokes and a suspension strut clamp. Fits a wide range of spring configurations and diameters. Also features a strut locating platform for easy movement of the suspension strut to avoid unnecessary lifting.

Maximum Load:	1000kg
Upper Yoke Travel:	420mm
Spring Diameter:	Ø102-165mm
Actuation:	Foot Pedal
Maximum Air Pressure:	116psi(8bar)



Every effort has been made to ensure that the applications shown in this publication are accurate and include all current vehicles. For definitive information call our technical team on 01284 757505 or email technical@sealey.co.uk.



C 1000kg Coil Spring Compressor Wishbone Suspension
Model No. RE2281

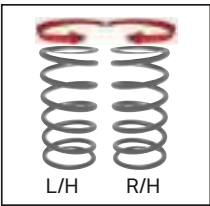
Compact design for use on wishbone suspension using access points in the rear suspension arm. Includes two pairs of carefully shaped yokes that prevent the coil spring from bowing and a drive extension for use in restricted areas. Saves time over traditional methods of demounting springs.

Contents:	Yokes (x4), Force Screw, 19 to 23mm Drive Extension, 19mm Combination Ratchet Spanner, 8mm T-Handle Hex Key
Capacity:	1000kg
Size/Suitability:	Ø60-170mm
Jaw Opening:	30-245mm
Drive:	20, 23mm Hex

A - D Coil Spring Compressors

Model No. SEE BELOW

Our three new Coil Spring Compressor Kits have been specially designed for the left winding coil springs found on some modern vehicles. The new yoke design allows left winding springs to seat safely and securely to the curvature of the yoke. Check the table below to find the right product.



Yokes	Right Hand	Right Hand	Right Hand	Left Hand	Left Hand
	Ø80-105mm	Ø105-140mm	Ø145-190mm	Ø105-140mm	Ø145-190mm
RE229	✓	✓	✓	✗	✗
RE239	✗	✗	✗	✓	✓
RE249	✓	✓	✓	✓	✓
RE259	✗	✗	✗	✓	✓



B Coil Spring Yokes - Left Hand

Model No. RE259

Suitable for MacPherson strut left-handed coil springs. Compatible with models RE229, RE239 and RE249.

Capacity	2500kg		
Yoke Specification:	Left Hand:	Right Hand:	Size/Suitability:
	✓	✗	Ø105-140mm
	✓	✗	Ø145-190mm
Drive:	21mm Hex		



C 2500kg Professional Coil Spring Compressor Set - Right Hand

Model No. RE229

Suitable for MacPherson strut coil springs. Features a yoke extension bracket that also allows use on conical springs. Supplied with three pairs of different sized interchangeable yokes, for a wide range of vehicle applications. Plastic yoke protectors that protect the spring coating from damage, which can invalidate the vehicle manufacturer's guarantee. Safety yokes carefully shaped to stop the spring bowing while under compression.

Capacity	2500kg		
Yoke Specification:	Left Hand:	Right Hand:	Size/Suitability:
	✗	✓	Ø80-105mm
	✗	✓	Ø105-140mm
	✗	✓	Ø145-190mm
Maximum Jaw Opening:	265mm		
Drive:	21mm Hex		



A Professional Coil Spring Compressor Kit - Left Hand

Model No. RE239

Suitable for MacPherson strut coil springs. Supplied with two pairs of different sized interchangeable yokes, for left-handed coil springs. Plastic yoke protectors that protect the spring coating from damage, which can invalidate the vehicle manufacturer's guarantee. Safety yokes carefully shaped to stop the spring bowing while under compression.

Capacity	2500kg		
Yoke Specification:	Left Hand:	Right Hand:	Size/Suitability:
	✓	✗	Ø105-140mm
	✓	✗	Ø145-190mm
Maximum Jaw Opening:	265mm		
Drive:	21mm Hex		



D Professional Coil Spring Compressor Set - Right Hand/Left Hand

Model No. RE249

Suitable for MacPherson strut coil springs. Supplied with five pairs of different sized interchangeable yokes, for right and left-handed coil springs. Plastic yoke protectors that protect the spring coating from damage, which can invalidate the vehicle manufacturer's guarantee. Safety yokes carefully shaped to stop the spring bowing while under compression.

Capacity	2500kg		
Yoke Specification:	Left Hand:	Right Hand:	Size/Suitability:
	✗	✓	Ø80-105mm
	✓	✓	Ø105-140mm
	✓	✓	Ø145-190mm
Maximum Jaw Opening:	265mm		
Drive:	21mm Hex		





A 2000kg Hydraulic Coil Spring Compressing Station with Gauge
Model No. RE2311

Foot operated hydraulic unit, with gauge showing force applied to the spring under compression. Supplied with three pairs of different sized interchangeable yokes, for a wide range of vehicle applications. Fitted with plastic yoke protectors that protect the spring coating from damage, which can invalidate the vehicle manufacturer's guarantee.

Maximum Load:	2000kg
Upper Yoke Positions:	7
Lower Yoke Travel:	320mm
Yoke Specification:	Size/Suitability:
Small ID-OD:	Ø87-129mm
Medium ID-OD:	Ø106-165mm
Large ID-OD:	Ø142-202mm
Actuation:	Foot Pedal



D Coil Spring Compressor Restraint System
Model No. RE23RS

Safety restraint system designed for use with Model No's RE231, RE2311 and RE232 Coil Spring Compressors. Quickly installed and fast and simple to operate in use.



B 1500kg Hydraulic Coil Spring Compressing Station
Model No. RE231

Foot operated hydraulic unit. Quicker and easier than using ratchet driven spring compressor. Plastic coated yokes reduce the risk of spring slippage or damage and are suitable for springs from Ø80mm to Ø175mm.

Maximum Load:	1500kg
Upper Yoke Positions:	7
Lower Yoke Travel:	340mm
Spring Diameter:	Ø80-175mm
Actuation:	Foot Pedal



WARNING

Always ensure coil springs are correctly seated in the yokes before beginning compression.



C 1500kg Air/Hydraulic Coil Spring Compressing Station
Model No. RE232

Air actuated hydraulic unit with alternative foot operation. Quicker and easier than using ratchet driven spring compressor. Plastic coated yokes reduce the risk of spring slippage or damage and are suitable for springs from Ø80mm to Ø175mm.

Maximum Load:	1500kg
Upper Yoke Positions:	7
Lower Yoke Travel:	340mm
Spring Diameter:	Ø80-175mm
Actuation:	Air or Foot Pedal
Maximum Air Pressure:	120psi(8.3bar)

E Upgrade your RE230 Coil Spring Compressor

E Upgrade Kit
RE230 to RE231
Model No. RE230UK

Kit converts RE230 Strut & Spring Compressing Station into RE231 Coil Spring Compressing Station with two pairs of spring yokes and upper and lower yoke carriers. Includes safety chain.

Maximum Load:	1500kg
Spring Diameter:	Ø90-175mm
Contents:	Yoke Carriers; Upper, Lower, Yokes; Ø102-130mm, Ø110-160mm, Safety Chain



A 1000kg Hydraulic Coil Spring Compressor
Model No. VS7011

Hydraulic hand pump unit powers 1000kg capacity ram and yoke assembly. Up to 50% faster than using other ratchet driven spring compressors. Equipped with two pairs of spring yokes with rubberised covers to prevent slippage and damage to springs. Suitable for springs from Ø80mm ID to Ø165mm OD.

Maximum Extension:	240mm
Piston Travel:	240mm
Yoke Specification:	
Size:	Capacity (Spring Diameter):
Small	Ø80-OD122mm
Large	Ø110-OD165mm

B 1600kg Coil Spring Compressor Kit
Model No. RE225

High quality, European made, 1600kg coil spring compressor kit. Supplied with two pairs of drop-forged safety yokes, with polyurethane inserts for improved grip. Yokes are carefully shaped to prevent coil spring from bowing. Features safety restraint wire as a precaution, in the unlikely event of a spring slipping. Suitable for use with air impact wrench.

Yoke Specification:	
Size:	Spring Diameter:
Small	Ø80-120mm (x2)
Large	Ø80-195mm (x2)
Drive:	27mm Hex
Maximum Jaw Opening:	335mm



B 1600kg
Made in Europe



C 2pc Coil Spring Compressor
Model No. AK3841

Carbon steel, hardened lead screws and cast jaws. Wrapover coil claws for extra safety. Suitable for use where space under wheel arch is limited.

Drive:	21mm Hex/1/2"Sq
Maximum Jaw Opening:	244mm
Maximum Capacity Per Pair:	1000kg



D 2pc Long Reach Coil Spring Compressor
Model No. AK3846

Carbon steel, hardened lead screws and cast jaws. Wrapover coil jaws for extra safety. Long reach jaws are ideal for the longer type of coil spring found on modern vehicles.

Drive:	21mm Hex/1/2"Sq
Maximum Jaw Opening:	390mm
Maximum Capacity Per Pair:	1100kg



E 3pc Coil Spring Compressor with Safety Hooks
Model No. AK384

Carbon steel, hardened lead screws and cast jaws with safety hooks to prevent accidental release of spring under compression.

Drive:	1/2"Sq
Maximum Jaw Opening:	235mm
Maximum Load Per Set of 3 Clamps:	1200kg



F 2pc Heavy-Duty Coil Spring Compressor
Model No. AK3843

High security coil spring compressor with 1200kg maximum capacity per pair, featuring adjustable safety bar for additional security. Compressors have lower safety jaws for ultimate peace of mind. Use 19mm hex socket or spanner.

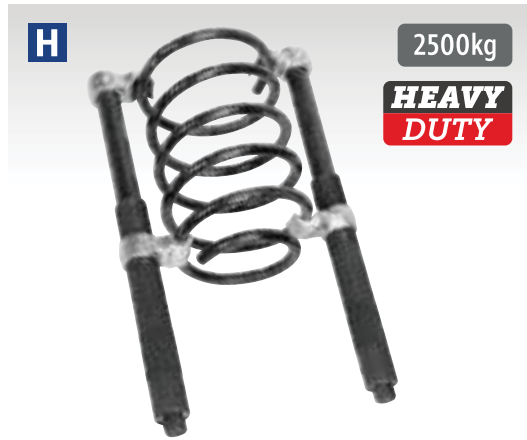
Drive:	19mm Hex
Maximum Jaw Opening:	290mm
Maximum Capacity per Pair:	1200kg



G 350mm Coil Spring Compressor
Model No. AK3842

Heavy-duty Chrome Vanadium construction. Long-reach arms compress a higher proportion of the coil spring. Allows even and safe compression of spring prior to installation.

Drive:	19mm Hex
Maximum Reach:	350mm
Capacity:	850kg



H 2pc Heavy-Duty Coil Spring Compressor
Model No. AK3845

Heavy-duty coil spring compressor with hardened steel body and force screw. Ensures smooth compression of spring.

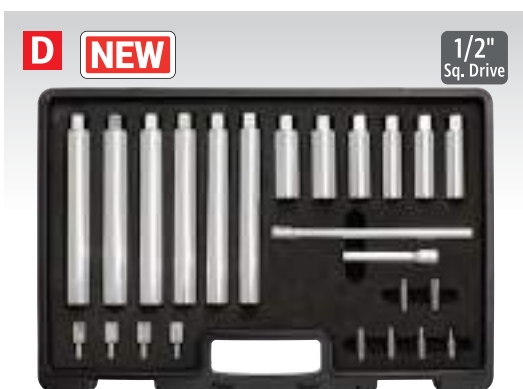
Drive:	17mm Hex
Maximum Jaw Opening:	280mm
Maximum Capacity per Pair:	2500kg



A 2pc 1/2\"Sq Drive Strut Leg Pry Socket Set
Model No. **SX034**

Reduces risk of damage to hub casting associated with using hammers and chisels to free the strut leg. Suitable for removal and installation of legs on most Audi, Ford, Peugeot, Renault, Seat, Skoda and VW vehicles.

Sizes: 7 x 5, 8.2 x 5.5mm



D 24pc Suspension Strut Socket Set
Model No. **VS0332**

Sockets manufactured from Chrome Vanadium steel. Permits the removal of the top suspension nut by holding the strut piston, so it doesn't rotate while turning the nut. The go-through design of the socket and ratchet allows the extension to pass through the middle. To be used in conjunction with a 1/2\"Sq Drive ratchet or T-bar (not included).

Drive: 1/2\"Sq
Sizes: Go-Through Sockets Standard & Deep; 16, 17, 18, 19, 21, 22mm, 8mm Hex Bits; Hex - 5, 6, 7, 8mm, Spline - M10, TRX-Star* - T50, Shock Absorber Strut Sockets (x4), 3/8\"Sq Drive Extension Bars; 90, 190mm.



G Suspension Strut Support
Model No. **VS3847**

Designed to support suspension struts during repair operations. To be used in conjunction with Model No. 600TR or other transmission jacks with a minimum base size of 560mm x 570mm. Only use with a ram size of Ø30mm diameter. Developed by Sealey.



B Strut Nut Socket - Audi, VW
Model No. **SX028**

Suitable for the removal and installation of top shock retaining nut. Location pegs fit into slots cut in the retaining ring and allow hex key access through the centre for release/adjustment of the shock. Use with 22mm spanner.

Internal Diameter x Tooth Width: Ø14.5 x 5mm



E 5 & 6mm 2-Point Strut Wrench
VAG, Ford, GM, Honda, Toyota
Model No. **SX076**

Designed to prevent the damper piston rod from turning while removing and replacing the rear suspension strut. Suitable for VAG, Ford, GM, Honda, Toyota. 2-point, 5 & 6 mm, 182mm length.



H 18pc Shock Absorber Strut Nut Kit
Model No. **VS0331**

Permits the removal of the top suspension nut by holding the strut piston, so it doesn't rotate while turning the nut. The go-through design of the socket and ratchet allows the extension to pass through the middle. To be used in conjunction with a 1/2\"Sq drive ratchet or T-bar (not included).

Contents:
Go-Through Ratchet: 21mm
Go-Through 82mm Deep Sockets: 16, 17, 18, 19, 21, 22, 24mm
Extensions: Female Hex; 7, 8, 9mm, Male Hex; 6, 7, 8mm, Slotted; 5 x 8, 6 x 8, 7.1 x 9.6mm, TRX-Star*; T50



C Front Strut
Top Nut Holding & Removal Tool - Volvo
Model No. **SX0332**

Designed to hold the central strut whilst the securing nut is removed. WARNING: Ensure the road spring has been compressed using a suitable spring compressor BEFORE removing top nut. Applications: Volvo C70 Coupe (-02), C70 Convertible (-05), S70, V70 (-00), XC90, V70 (00-08), V70 XC (01-), XC70 (-07), S60, 850, V70 XC (-00), S80 (-06). OEM Tools: 9995469 & 9995468.

Drive: 1/2\"Sq



F 8pc Strut
Nut Set
Model No. **SX0331**

Comprehensive set for the removal and installation of nuts on McPherson struts. Covers a large range of vehicle applications.

Castellated Sockets:
Drive: 15, 21, 22mm
Sizes (ID/Tooth Width): Ø10.5 x 3.5, 12.5 x 3, 12.5 x 3.5, 14 x 2.5, 14 x 5, 14.5 x 5mm
Ovals:
Drive: 1/2\"Sq
Sizes (ID/Tooth Width): Ø7 x 5, 8.2 x 5.5mm



I 1/2\"Sq Drive 46mm 12-Point Impact Socket
Model No. **SX046**

Suitable for suspension lower ball joints on Renault Master and Vauxhall Movano 2010 onwards. Also suitable for drive shaft hub nuts on Fiat Ducato, Citroen Jumper and Peugeot Boxer. Made from Chrome Molybdenum Steel with black phosphate finish.

Drive: 1/2\"Sq
Size: 46mm



A Ball Joint Splitter
Model No. AK381
Chemically blackened forged steel body with thrust bolt. Suitable for most small cars and light vans.

Jaw Width:	19mm
-------------------	------



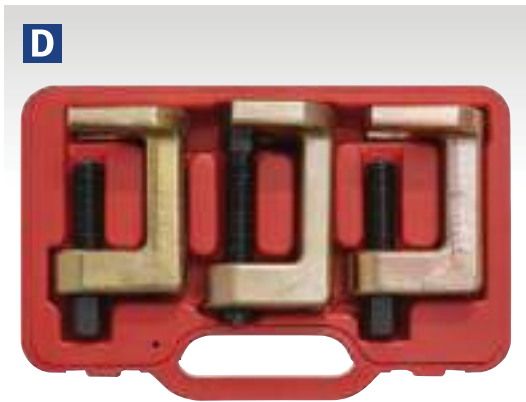
B Ball Joint Splitter
Model No. AK3811
Forged steel body with chemically blackened thrust and adjustment screws for corrosion resistance. Fully adjustable.

Jaw Width:	20mm
-------------------	------



C Ball Joint Splitter
Model No. AK380
Forged steel body with steel thrust bolt. Suitable for most small cars and light vans.

Jaw Width:	17mm
-------------------	------



Low Profile

D 3pc Ball Joint Splitter Set
Model No. VS3800
Low profile set suitable for most modern vehicles. Three sizes of jaw allow use on most cars and light commercial vehicles. Features heavy-duty forged steel body and hardened screw with thrust ball.

Jaw Width:	Small 23mm, Medium 28mm, Large 34mm
-------------------	-------------------------------------



E Steering Drop Arm Puller
Land Rover 2, 2A, 3
Model No. PS969
Designed to detach the steering drop arm from the steering box found on Land Rovers.

Size/Spread:	60.5mm
Reach:	19mm



F Steering Drop Arm Puller
Land Rover Defender 90, 110, 130
Model No. PS970
Designed to detach the steering drop arm from steering box found on Land Rovers.

Size/Spread:	75mm
Reach:	23mm



G 5pc 1/2" Sq Drive Impact Hub Nut Socket Set
Model No. SX050
Heavy-duty, high quality, Chrome Molybdenum impact sockets suitable for use with any 1/2" Sq drive impact tool. Blackened finish for added corrosion resistance. Tool suitable for hub nut applications where high torque is required.

Drive:	1/2" Sq
Contents:	29, 30, 32, 34, 36mm



H Hub Clamp Spreader Tool - Ball Joint/Strut
Model No. VS390
Suitable for removal and installation of spring and shock strut from steering knuckle. Prevents expensive damage to aluminium or cast iron steering hubs. Excellent for spreading the clamp on lower ball joints. Suitable for a wide range of vehicle applications.

Applications:	Audi, BMW, Citroen, Ford, Peugeot, Renault, Seat, Skoda, VW
----------------------	---



I Safety Spectacles with EVA Padding Anti-Glare Lens
Model No. SSP69
Conforms to CE standards - BS EN 166/F. Modern, lightweight wraparound design, with flexible TPR arms, offers added protection and increased user comfort. Polycarbonate anti-scratch lens. Includes foam lining to keep wind, dust and other irritants away from eyes.

Lens Type:	Anti-Glare
-------------------	------------



J Sealey Safety Baseball Bump Cap
Model No. SSP16
Baseball bump cap with solid internal cover for protection against knocks and grazes. Adjustable strap suits all sizes. Convenient short peak design, better suited for working in and around vehicles. Internal padding and ventilation for added comfort. Conforms to EN 812.



A 5pc Ball Joint Splitter Kit Model No. AK273

Three forks with interchangeable shafts for use with ball pein hammer or air hammer with .401" shanks (Model No's GSA11, GSA12, SA11, SA12/S, SA613, SA614). Suitable for most small cars and light commercials.

Includes:	Fork Size:
Tie Rod Spreader:	18mm
Ball Joint Separator:	24mm
Pitman Arm Wedge:	27mm



F Lower Ball Joint Socket Peugeot 405/Citroen Model No. SX027

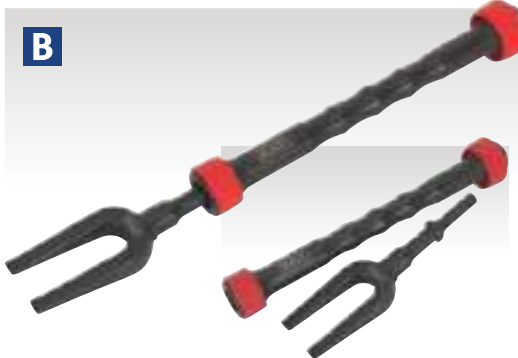
Heat treated alloy steel socket. 35mm Hex drive with Ø19mm internal clearance for OEM and non-OEM fittings. Ø50mm Ring with drive pegs which locate in slots cut in the ball joint flange. Suitable for Citroen and Peugeot 405 lower ball joints.



H 2pc Lower Ball Joint Socket Set Model No. SX0271

Set of two heat treated alloy steel sockets. Suitable for removal of OEM and aftermarket lower ball joints on Citroen and Peugeot vehicles. Supplied in storage case.

Applications: Citroen; Xantia, C5, C6, Peugeot; 405, 406, 407, 605, 607



B Impact Ball Joint Splitter Model No. AK390

2-Piece impact ball joint splitter, with detachable fork for use with Sealey air hammer guns. Long shaft provides reach and stability when striking with hammer. Suitable for most cars and light vans.

Length:	240mm
Jaw Width:	20mm



D Long Reach Ball Joint Splitter Model No. AK3821

Drop-forged and heat treated alloy steel. Suitable for applications with awkward or limited access.

Length:	400mm
Jaw Width:	19mm



G 1/2" Sq Drive 48mm Track-Rod End Socket Model No. VS444

Heavy-duty, high quality, Chrome Vanadium socket suitable for use with any 1/2" Sq drive ratchet. Blackened finish for added corrosion resistance. Tool suitable for the removal and installation of track-rod ends on most cars and vans.

Internal Diameter:	Ø48mm
Cutout:	19mm Wide



C Ball Joint Splitter Model No. AK382

Forged steel body with phosphate finish. Suitable for most small cars and light vans.

Length:	200mm
Jaw Width:	14mm

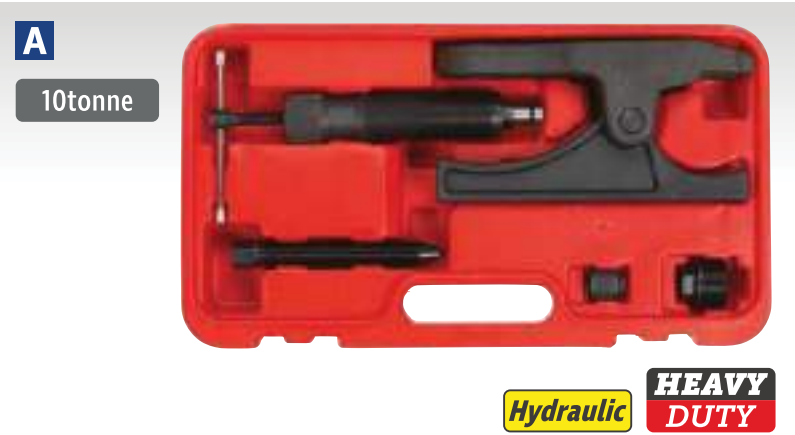


E 1/2" Sq Drive Universal Hub Puller Model No. AK713

Ductile steel electrodeposition finished body with thrust bolt and tommy bar. Suitable for four and five stud hubs. Use with a 1/2" Sq drive ratchet wrench or with tommy bar supplied.

I 44mm Suspension Ball Joint Socket 38mm 6-Point Drive - Citroen/Peugeot/Toyota Model No. SX044

Suitable for a range of Citroen, Peugeot and Toyota vehicles. Design allows the suspension joint centre to pass through. 38mm 6-point Drive.



A Hydraulic/Manual Ball Joint Splitter - Commercial
Model No. VS3813

Heavy-duty ball joint splitter suitable for commercial vehicles. Specially designed to be operated manually or by 10tonne hydraulic ram (supplied). Features a step down thread adaptor that allows fitting of the manual thrust screw or hydraulic ram. Hydraulic ram interchangeable with Model No. PS990 (see page 628).

Jaw Width:	35mm
Jaw Opening Capacity:	100mm



B 9pc Hydraulic/Manual Ball Joint Splitter - Commercial
Model No. VS3814

Heavy-duty ball joint splitter with interchangeable jaws. Enables operator to select correct jaw size without taking entire splitter to the vehicle. Use manually or with 12tonne hydraulic ram (supplied).

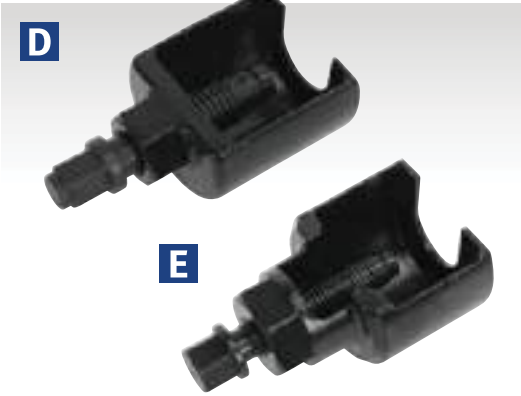
Jaw Capacity:	Small; 30mm, Medium; 34mm, Large; 40mm
Jaw Opening Capacity:	100mm
Thrust Screw Lengths:	82, 100mm
Pivot Rod Length:	95mm



C Hydraulic/Manual Ball Joint Splitter Light Commercial
Model No. VS3811

Forged steel body ball joint splitter suitable for light commercial vehicles. Specially designed to be operated manually or by 1.5tonne hydraulic ram supplied. Features a step down thread adaptor that allows fitting of the manual thrust screw.

Jaw Width:	19mm
Jaw Opening Capacity:	47mm



D - E Ball Joint Splitters
Model No. SEE BELOW

Chemically blackened forged steel bodies with thrust bolt. High strength construction, suitable for commercial vehicle ball joints.

Model No:	Jaw Width:
D VS3804	33mm
E VS3805	42mm



G Ball Joint Splitter - Commercial
Model No. VS3812

Chemically blackened forged steel body with thrust bolt. Suitable for commercial applications.

Jaw Width:	35mm
Jaw Opening Capacity:	65mm



H 500ml Graphited Penetrating Oil Lubricant
Model No. SCS022S

Low viscosity high penetrating liquid. Frees seized nuts, bolts, locks and rusted parts. Lubricates and protects. Leaves a protective barrier. General application for all types of machinery. Higher grade general purpose lubricant, accurate and economical application.



F 14pc Lower Ball Joint Remover/Installer
Mercedes, Renault
Model No. VS1274

Suitable for in situ removal and installation of front lower ball joints on Mercedes W220, W211, W230 and Renault Megane. No need to disassemble. Also includes a selection of multipurpose sleeves, which have various automotive applications. Use with ratchet wrench.

Applications:	Mercedes; W220 S-Class (98-06), W211 E-Class (02-09), W230 SL (02on), Renault; Megane (02-08 with 18mm ball pin)
External Sleeve Sizes:	Ø50.5, 63.5, 76mm

A - B Front Wheel Bearing GEN2 Removal/Installation Kits
Model No. SEE BELOW

Two kits designed for the second generation of wheel bearing found on modern vehicles. These bearings are lightweight with an integral mounting flange. They are also pre-loaded with a retaining ring that secures the bearing into the housing. Each kit is individually designed to suit the relevant vehicle manufacturer. These kits can be used in situ when replacing the front wheel bearing. Knowledge of the outer bearing diameter is required before selecting the appropriate kit, as some vehicles are fitted with more than one size of bearing.



- GEN1**
Double row Contact bearing.
- GEN2**
Hub unit with bearing (Single Flange).
- GEN3**
Hub unit with bearing (Double Flange).



A
Model No. VS7029
Bearing Size: 72mm
Applications: Audi; A1 (10on), A2 (00-05), Seat; Cordoba (03-09), Ibiza (02-12), Skoda; Fabia (00-12), Roomster (06-12), VW; Fox (05-10), Polo (02-12)



B
Model No. VS7030
Bearing Size: 78mm
Applications: Ford; C-Max (07-11), Focus II (04-11), Focus C-Max (03-07), Mazda; 3 (03-05), Volvo; C30 (06-10), C70 (05-10), S40 (04-12), V50 (04-10)



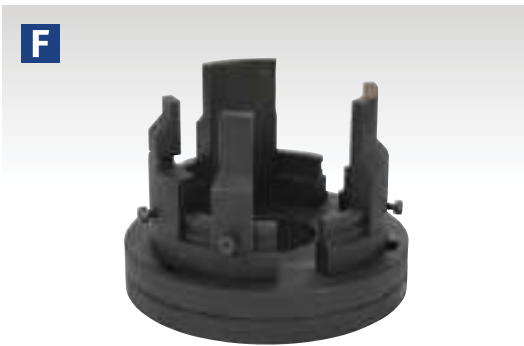
C **Wheel Bearing Inner Race Puller**
Model No. VS7025
 Designed for the removal of the wheel bearing inner race from the vehicle hub. Usually the inner race is cut from the hub - using this tool saves time and reduces the likelihood of damage. The puller's unique leg design allows it to fit between the inner race and hub. Features a locking mechanism to locate and hold the legs in the correct position. Suitable for most vehicle hubs.
Capacity: Ø40-110mm



D **Universal Press Support Block**
Model No. VS7036
 Designed to be used with a standard workshop press. Multiple threaded holes in aluminium base plate enable the support bars to be installed in virtually any position, allowing the bearing or bush to be positioned horizontally. Includes a packing block for added versatility. Ideal for the removal of wheel bearings and bushes.
Aluminium Base Plate Size (L x W x H): 250 x 200 x 40mm
Aluminium Packing Block Size (L x W x H): 200 x 70 x 40mm
Support Bar Lengths: 110mm, 150mm (x3), 190mm



E **3pc 1/2" Sq Drive 12-Point Impact Hub Nut Socket Set**
Model No. SX051
 Heavy-duty, high quality, 12-point, Chrome Molybdenum impact sockets suitable for use with any 1/2" Sq drive impact tool. Blackened finish for added corrosion resistance. Tool suitable for hub nut applications where high torque is required.
Drive: 1/2" Sq
Contents: 30, 32, 36mm



F **Adjustable Press Support Plate**
Model No. VS7037
 Designed to be used with a standard workshop press. Adjustable diameter and six interchangeable support legs provide quick alignment of hub or suspension frame for secure and level pressing. Ideal when removing and installing wheel bearings and bushes.
Operating Diameter: Ø78-100mm



A



A Wheel Bearing Removal/Installation Kit Model No. VS7021

Suitable for the installation and removal of front hub bearings without the need to dismantle the steering knuckle and strut assembly. Fast and simple-to-use. Suitable for most front wheel drive cars. Heavy-duty steel drifts with black phosphate finish for corrosion resistance. May be used with impact wrench.

Drift Sizes: Ø55.5, 59, 62, 65, 66, 71.5, 73, 78, 84, 86, 91mm

External Sleeve Diameter: Ø76mm

Hub Screw Sizes: M12 x 1.5, M14 x 1.5mm

B



B Wheel Bearing Removal/Installation Kit Model No. VS7020

Comprehensive kit of tools for the fast and effective removal and installation of wheel bearings on front-wheel drive vehicles. Reduces chances of damage to hub and bearing. Heavy-duty steel drifts with phosphate coating to prevent corrosion. Heavyweight drive screw for use with impact tools. Also suitable for removing and installing large industrial bearings.

Drift Sizes: Ø50, 55, 60, 64, 67, 70, 72 (x2), 73, 75, 78, 82, 84, 88mm

External Sleeve Diameter: Ø76, 86, 92, 101mm

Hub Screw Length: 210mm

Hub Screw Drive: 32, 38mm

C



C 27pc Bearing & Bush Removal/Installation Kit Model No. VS7026

Comprehensive kit for fast and effective in situ removal/installation of wheel bearings, suspension bushes and seals. Reduces the possibility of damaging the bearing/suspension housings. Supplied with 22 adaptors from Ø44 to 90mm and five force screws in storage case. Adaptors can also be used in a standard workshop press.

Adaptor Wall Thickness: 5mm

Adaptor Height: 60mm

External Adaptor Diameter: Ø44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 85, 90mm

Force Screw Threads: 10 x 1.5, 12 x 1.5, 14 x 1.5, 16 x 1.5, 18 x 1.5mm

Force Screw Length: 350mm

D



D 37pc Bearing & Seal Installation Kit Model No. VS7024

Lightweight design for the installation of bearings without damaging the bearing or housing. Contains three metal bearing drift sleeves and 34 nylon drifts. Can also be used to install oil seals. Fits most sizes of bearing and seals found on modern vehicles. Supplied in storage case.

Drift Sleeve Diameter: Ø25, 40, 60mm

Drift Sleeve Length: 220mm

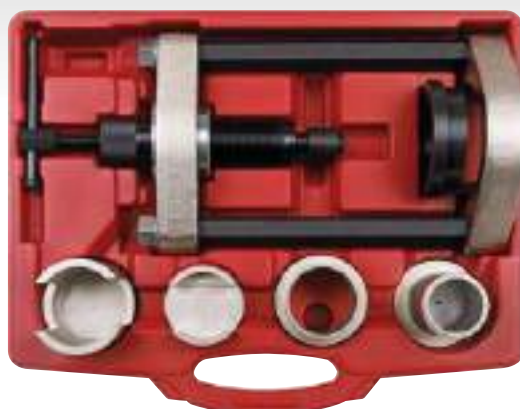
Nylon Drift Diameter: Ø26, 28, 30, 32

(x2), 35 (x3), 37, 40, 42 (x2), 47 (x3), 52 (x2), 55, 60, 62 (x3), 68, 72 (x2), 75, 80 (x2), 82, 85, 90 (x2), 100, 110mm

E

Hydraulic

10tonne



E Hydraulic Ball Joint Installation/Removal Kit - BMW Model No. VSE127H

Remove and install press-fit control arm ball joints on BMW 3 Series E36 vehicles. MOT Specific application. Can be used in situ, as there is no requirement to remove the control arm from the vehicle. Includes all necessary adaptors. Simple, easy hydraulic ram action.

F



F Bush Removal Adaptor Set Renault Laguna Model No. VSE127H02

For use in conjunction with Sealey Hydraulic Ball Joint Installer/Removal Kit (Model No. VSE127H). Set contains various adaptors for front ball joint removal/installation on Renault Laguna (93-00).

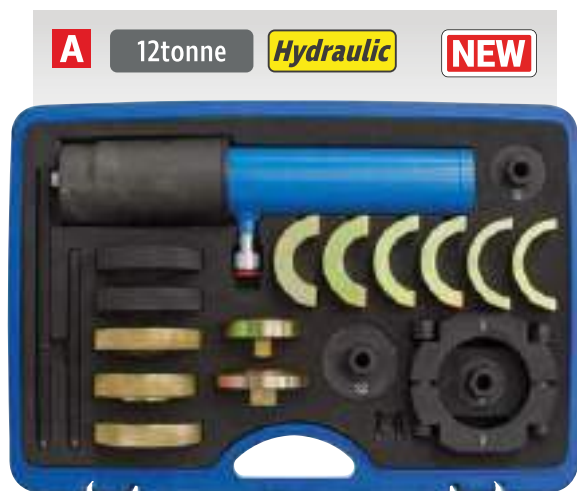
G



G Rear Ball Joint Tool - BMW Model No. VSE5509

Designed to remove and install press-fit rear suspension ball joints in situ, on BMW 5 and 7 Series. These joints are sometimes referred to as 'bushes' but are true ball joints.

Applications: BMW; 5 Series E39, 7 Series E38



A Hydraulic Vehicle Bush Tool - Commercial Model No. CV040

Designed for the installation and removal of slotted bushes on commercial spring suspension. Includes a 12tonne hydraulic cylinder (supplied without hydraulic pump). Use in conjunction with Hydraulic Pump Model No's RE83/840/CWH (Air/Hydraulic) or RE97.10-01 (Hydraulic). Installation protects the bush using the parallel working tension elements. Suitable for use on the vehicle. Safe and easy-to-use.

Applications: Volvo (FM12), Renault (430/450/460), MAN-TGA (410/414/460), DAF



B Front Wheel Bearing Removal Tool Ford Transit Model No. VS1270

Suitable for the fast removal of Ford Transit (00on) front wheel bearings. 10tonne Hydraulic ram with forged steel yoke, arms and separator. Supplied in storage case.

Contents: 10tonne Hydraulic Ram, 150mm Leg (x2), Twin Head, Ram Nut, 50mm Extension Rod, Centre Adaptor, 55-100mm Separator



D Rear Trailing Arm Bush Tool - Fiat Panda Model No. VSE5587

Suitable for removal/installation of rear trailing arm bushes on a Fiat Panda (03-12). Tool will allow changing the bushes in situ, saving time and money.

Application: Fiat Panda (03-12)

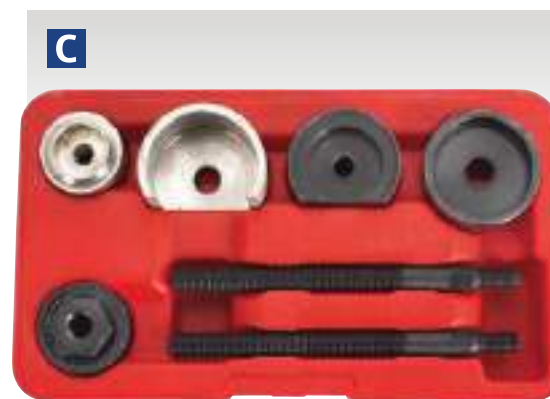


F Front Control Arm Bush Removal/Installation Tool - Ford Transit Model No. VS4788

Suitable for removal/installation of the front lower control arm suspension bush on a Ford Transit.

Application: Ford Transit (00-14)
OEM Numbers: 4042024, 4372132, 4540787

Using a bush removal/installation tool in situ can save hours of time without having to remove components unnecessarily to complete the job.



C Front Pivot Arm Bush Tool Citroen C5, C6, Peugeot 407, 508 Model No. VSE4785

Suitable for the removal/installation of the front lower suspension pivot arm bush. Can be used in situ without removing the aluminium hub carrier from the vehicle.

Applications: Citroen; C5 (04-15), C6 (05-15)
Peugeot; 407 (04-15), 508 (10-15)



E Front Wheel Bearing Puller - Ford Transit Model No. VS2386

Engineered for safe, in situ removal of drive flange wheel bearing/hub assembly, and wheel bearing from drive flange. Essential tool when replacing brake discs allowing the drive flange to be split from the hub assembly. Features a cleverly designed impact force screw.

Application: Front Wheel Drive Ford Transit (06on)



G 500ml Freeze Shock & Release Spray Lubricant Model No. SCS0365

Aids release of corroded and seized parts. Fast shock freeze action penetrates the corroded area. Displaces moisture. Penetrates, lubricates and helps prevent future corrosion.



Assembled

A Rear Axle Bush Tool - Ford Fiesta IV, Ka Model No. VSE4779

Remove/install Fiesta IV rear axle mounting bushes. Can be used in situ, no need to remove trailing link assembly from vehicle.

Applications: Ford; Fiesta IV (96on), Ka



B Bush Removal Tool - Ford Mondeo Model No. VSE4778

Remove/install rear sub-frame bushes on Mondeo. Can be used in situ, no need to remove sub-frame from vehicle.

Application: Ford; Mondeo MkIII (01-06)



D Front Suspension Bush Tool - VAG Model No. VSE4781

Suitable for the removal/installation of the rear mounting bush on the front lower wishbone. Can be used in situ without removing the aluminium housing. Use with 24mm spanner only.

Applications: Seat; Cordoba III (03on), Skoda; Fabia (00on), VW; Polo IV (02on)



C Trailing Arm Bush Tool - Ford Model No. VSE4788

Suitable for the removal/installation of the rear trailing arm mounting bushes on Ford Fiesta MkVI. Can be used in situ without removing the arm from the vehicle. Also suitable for Mazda 2.

Applications: Ford; Fiesta MkVI (08on), Mazda; 2 MkIII (07-15)



E Rear Bush Installation Tool Audi A3, VW Golf IV Model No. VS722

Suitable for the in situ installation of the rear axle mounting bushes on selected VW and Audi vehicles. Use with ratchet wrench or spanner to insert composite bushes.

Applications: Audi; A3, VW; Bora, Golf IV



F Front Axle Upper Ball Joint Extractor/Installer - VW T4 Model No. VSE725

Suitable for removing and installing the upper front ball joint in situ, without the need to disassemble. Features various adaptors used in different combinations for extracting and installing. Supplied in a storage case with each part numbered for simple selection.

Applications: VW; T4 2000 CC, T4 2500 CC

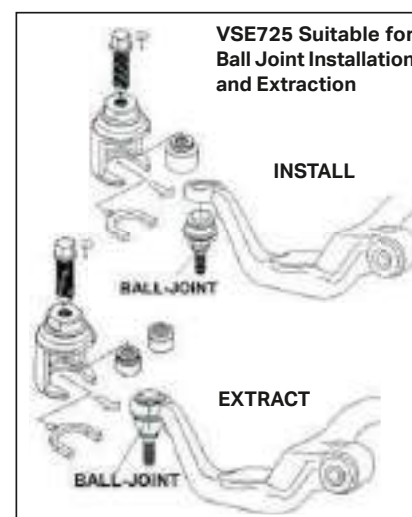


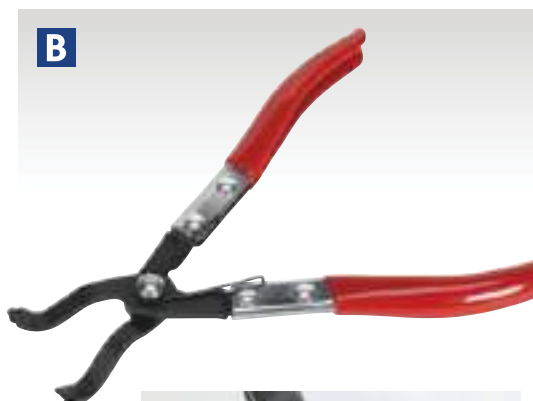


Illustration for display purposes only and not included in kit.

A Trailing Arm Bush Tool - Ford, Volvo
Model No. VSE4784

Suitable for the removal/installation of the rear trailing arm mounting bushes on Ford vehicles. Can be used in situ without removing the arm from the vehicle. Also suitable for Volvo vehicles that share the same Ford platform. Supplied in storage case.

Applications: Ford; Mondeo MkIV (07on), S-Max (06on), Galaxy (06on), Volvo; S60, S80, XC60, V70, XC70 (06-09) with Ford Platform



B Wheel Bearing Circlip Pliers
PSA, Renault, Toyota
Model No. VS7040

Designed for the removal/installation of the wheel bearing circlip on Citroen, Peugeot, Renault and Toyota vehicles. Features specially designed tips for eyeless circlips, spring loaded jaws and vinyl dipped handles.

Applications:

Citroen: C1; 1.0 Petrol, 1.4HDi (05-15)
Peugeot: 107; 1.0 Petrol, 1.4HDi (05-15)
Renault: Clio; Mk2 2.0 16v Sport (98-05)
Toyota: Aygo; 1.0 Petrol, 1.4HDi (05-15)



Illustration for display purposes only and not included in kit.

C Trailing Arm Bush Tool - Volvo, Ford
Model No. VSE4786

Suitable for the removal/installation of the rear trailing arm mounting bushes on Volvo and Ford vehicles. Can be used in situ without removing the arm from the vehicle. Supplied in storage case.

Applications: Ford; Mondeo MkIV (07on), S-Max (06on), Galaxy (06on) Volvo; S80 II (07on), S80 II Flexifuel (07on), V70 III (08on), V70 III Flexifuel (08on), V60 D6 Hybrid (14on), V60 (12on), S60 II (10on), XC70 III (08on)



Puller Sets

For our full range of Puller Sets, see pages 625 to 629.



D Rear Trailing Arm Bush Tool - Ford, Mazda, Volvo
Model No. VSE4780

Remove/install rear trailing arm bushes on Ford, Mazda and Volvo vehicles. Can be used in situ - no need to remove rear axle from vehicle.

Applications: Ford; Focus MkI (98-04), Focus MkII (04-12), C-Max (07-11), Kuga MkI (08-13), Mazda; 3 (04-09), 5 (05-15), Volvo; V50 (04-13), S40 MkII (04-13)



E Trailing Arm Bush Tool - Vauxhall/Opel
Model No. VSE4787

Suitable for the removal/installation of the rear trailing arm mounting bushes on Vauxhall/Opel vehicles. Can be used in situ without removing the arm from the vehicle. Features a slotted adaptor for visual reference while in operation.

Applications: Vauxhall/Opel; Astra H (04-15), Zafira B (05-15), Meriva B (10on)



A 3pc 1/2" Sq Drive
12-Point Impact Hub Nut Socket Set
Model No. SX051

Heavy-duty, high quality, 12-point, Chrome Molybdenum impact sockets suitable for use with any 1/2" Sq drive impact tool. Blackened finish for added corrosion resistance. Tool suitable for hub nut applications where high torque is required. Supplied in storage case.

Drive:	1/2" Sq
Contents:	12-point Sockets; 30, 32, 36mm



D 6pc 1/2" Sq Drive
Impact Spline Socket Bit Set
Model No. SX052

Specialist set of tools suitable for removal and adjustment of hubs, steering and suspension on selected VAG vehicles. High quality Chrome Molybdenum components suitable for use with impact tools. Supplied in storage case.

Drive:	1/2" Sq
Contents:	Spline Bits (40 & 75mm); M14, M16, M18



F 16pc 3/4" & 1" Sq Drive Impact Hex,
TRX-Star* & TRX-Star* Female Socket Bit Set
Model No. SX098

Heavy-duty Chrome Molybdenum impact hex, TRX-Star* socket bits and TRX-Star* female socket bits. Suitable for commercial vehicle applications. Supplied in storage case.

Drive:	3/4" & 1" Sq Drive
Contents:	Bits; Hex - 17, 19, 22, 24mm, TRX-Star* - T60, T70, T80, T90, T100, Sockets: TRX-Star* Female - E18, E20, E22, E24, Impact Socket Adaptors: 3/4", 1" Sq Drive



B 5pc 1/2" Sq Drive
Impact Hub Nut Socket Set
Model No. SX050

Heavy-duty, high quality, Chrome Molybdenum impact sockets suitable for use with any 1/2" Sq drive impact tool. Blackened finish for added corrosion resistance. Tool suitable for hub nut applications where high torque is required. Supplied in storage case.

Drive:	1/2" Sq
Contents:	29, 30, 32, 34, 36mm



G 18V 1/2" Sq Drive Cordless Impact Wrench
Model No. CP1812

Brushless motor produces maximum torque of up to 1000Nm (738lb.ft). Variable speed trigger for greater control. Three selectable speed settings. Cast aluminium gearbox. Double injection body with rubber grips for added comfort. Fitted with electronic brake. LED Work light illuminates work area when trigger is pressed. Supplied in storage case with 4Ah Lithium-ion battery and 2 hour mains charger. See page 843 for full details.



C 3/4" Sq Drive Wheel Nut Impact Sockets
Model No. SEE BELOW

Drop-forged Chrome Molybdenum, 6-point impact sockets. Hardened and tempered for added strength, with a phosphate finish for greater corrosion resistance. 400mm Length for easy-access.

Drive:	3/4" Sq
Length:	400mm
Model No:	Size:
CV24	24mm
CV27	27mm
CV30	30mm
CV32	32mm
CV36	36mm

E 6pc 3/4" Sq Drive Impact 12-Point &
TRX-Star* Female Deep Socket Set
Model No. SX099

Heavy-duty Chrome Molybdenum 3/4" Sq drive deep impact sockets. 12-point and TRX-Star* female. Suitable for commercial vehicle applications. Supplied in storage case.

Drive:	3/4" Sq
Contents:	12-point Sockets: 17, 19mm, TRX-Star* Female Sockets: E18, E20, E22, E24



H Mechanic's Gloves Padded Palm
Model No. SEE BELOW

For full specification see page 1247.

Model No:	Size:
MG796L	Large
MG796XL	X-Large





A - C 1/2"Sq Drive Extra-Long Spline Socket Bits
Model No. [SEE BELOW](#)

Save valuable time and loosen drive shaft screws from the outside. Suitable for VAG vehicles. Hardened and tempered Chrome Vanadium steel socket. Chrome plated with satin finish. Knurled ring on socket to assist gripping with oily fingers. S2 Steel spline bit extension with phosphate coating.

Model No:	Size:	Drive:	Length:
A AK5535	M8	1/2"Sq	800mm
B AK5536	M10	1/2"Sq	800mm
C AK5537	M12	1/2"Sq	800mm



G 10pc 1/2"Sq Drive Head Bolt Socket Bit Set
Model No. [AK5538](#)

Head bolt removal tools with long reach suitable for modern engines. Nine drop-forged Chrome Vanadium steel sockets with S2 steel male bits, and one single piece Chrome Vanadium TRX-Star* deep socket. Sockets heat treated and chrome plated with satin finish for resistance to corrosion. Knurled ring on sockets to assist gripping with oily fingers. Suitable for BMW, Fiat, Ford, Mazda, Mercedes, Nissan, Renault, Rover and VAG vehicles. Supplied in storage case.

Contents:	
Length 60mm:	Ribe - M12, TRX-Star* - T70
Length 97mm:	Security Spline - M14
Length 100mm:	Ribe - M9
Length 117mm:	Ribe - M12
Length 150mm:	TRX-Star* Socket - E12, Security TRX-Star* - T60H, Spline - M10, Hex - 10mm, Ribe - M10



D M14 x 100mm 1/2"Sq Drive Spline Socket Bit
Model No. [AK5531](#)

1/2"Sq Drive satin finish Chrome Vanadium steel socket with knurled ring. 100mm S2 Steel shaft. Suitable for Rover 800 2.5D cylinder head bolts and VW Type 4 Transporter bottom wishbone bolts.



E M16 1/2"Sq Drive Security Spline Socket Bit
Model No. [SX107](#)

1/2"Sq Drive Chrome Vanadium steel socket with knurled ring and S2 steel bit. Suitable for gearbox drain plugs on Audi; A3, A4, A6, VW; Golf IV and LT.



F TS10H - TS40H



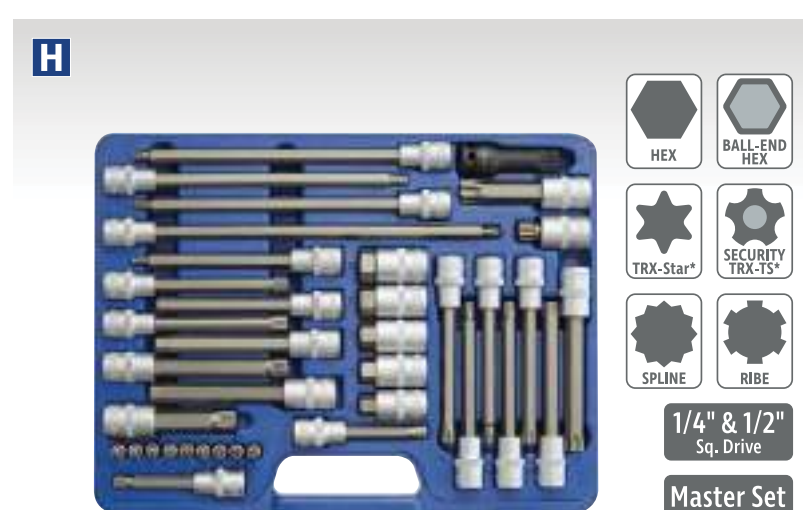
1/4"
Sq. Drive



F 7pc 1/4"Sq Drive TRX-TS* Security Socket Bit Set
Model No. [SX106](#)

Chrome Vanadium steel sockets and bits. Knurled ring on sockets to assist gripping with oily fingers. 5-Spline security TRX-TS* bits suitable for a range of fuel injection applications. Supplied on socket rail.

Drive: 1/4"Sq
Contents: TS10H, TS15H, TS20H, TS25H, TS27H, TS30H, TS40H



H 38pc 1/4" & 1/2"Sq Drive Automotive Socket Bit Set
Model No. [SX060](#)

Chrome Vanadium steel socket bit set with S2 steel bit shafts. Suitable for a wide range of specialist vehicle based applications, including headlight alignment on Alfa Romeo and Fiat, cylinder head removal and ball joint removal/installation on VAG, braking systems on Audi, BMW, Ford and VW and airbag retaining screws on VW vehicles. Supplied in storage case.

Contents:	
Length 37mm:	1/4"Sq Drive; Security TRX-TS* - TS10H, TS15H, TS20H, TS25H, TS27H, TS30H, TS40H, TS45H, TS50H
Length 55mm:	1/2"Sq Drive; Hex - 14, 17, 19, 22, 24mm, Spline - M16
Length 75mm:	1/2"Sq Drive; Impact Spline - M16
Length 100mm:	1/2"Sq Drive; TRX-Star* - T80, Spline - M9, M16, Ribe - M9
Length 140mm:	1/2"Sq Drive; Hex - 10, 11, 13mm, Ball-End Hex - 5mm, TRX-Star* - T40, T45, T50, T55, T60, T70, Spline - M10, M12, M14, Ribe - M10
Length 240mm:	1/2"Sq Drive; Hex - 7mm, Ribe - M7, M8
Length 295mm:	1/2"Sq Drive; TRX-Star* - T30



A Magnetic & Suction Grip Workshop Wing Cover
Model No. VS8503

Soft-faced vinyl material prevents scratching and marking of paintwork during servicing. Unique design featuring a cut-out, allowing access to wheel whilst in place. Wing cover can be held in place with eight integral magnets, four suction grips or a combination of both. Ideal for metal and plastic wings or securing onto headlight covers.

Size (W x H): 1050 x 590mm



B Non-Slip Wing Cover
Model No. VS8501

Fits over car wing to protect against marking and scratching of the paint finish. Manufactured from water-resistant nylon with a non-slip foam lining. Also resistant to oil and grease.

Size (W x H): 800 x 450mm



C Non-Slip Wing/Grille Cover
Model No. VS8502

Fits over car wing or grille to protect against marking and scratching of the paint finish. Manufactured from water-resistant nylon with a non-slip foam lining. Also resistant to oil and grease.

Size (W x H): 1200 x 500mm



D Magnetic Workshop Wing Cover
Model No. VS855

Soft-faced vinyl material prevents scratching and marking of paintwork during servicing. Wing cover held in place by integral magnets.

Size (W x H): 1070 x 400mm



F Folding Mechanic's Work Mat
Model No. VS858

Flexible work mat with two handles for portability. Durable composite cover that resists stains and fluids. High-density padding for added comfort. Ideal for working on cold garage floors and for roadside repairs.

Folded Size (L x W x D): 610 x 444 x 76mm

Open Size (L x W x D): 1220 x 444 x 38mm



E Magnetic Workshop Wing Cover with 4 Pockets
Model No. VS856

Soft-faced vinyl material prevents scratching and marking of paintwork during servicing. Wing cover held in place by integral magnets. Features four pockets for holding tools while working on car.

Size (W x H): 1065 x 600mm





A Ø75mm Professional Dent Puller
Model No. AK100

Specialist device for pulling dents from panels and bodywork. Contoured aluminium handle and suction release trigger give the technician close control.

Size:	Ø75mm
Maximum Pull Capacity:	10kg (Horizontal)



B Single Head Suction Gripper
Model No. AK9891

Designed for handling glass, tiles, plastic, sheet metal and other non-porous material. Suction vacuum controlled by locking handle.

Cup Diameter:	Ø120mm
Maximum Lift Capacity:	25kg (Horizontal)



C Heavy Lift Suction Cup with Vacuum Grip Indicator
Model No. AK98945

Heavy lift capacity. Red line indicator warns of any vacuum loss. Release valve lever for quick removal. Easy attachment on smooth, non-porous flat surfaces. Complete corrosion resistant finish. Supplied in storage case.

Cup Diameter:	Ø206mm
Maximum Lift Capacity:	60kg (Horizontal)



D Heavy Lift Suction Cup with Vacuum Grip Indicator
Model No. AK9894

Heavy lift capacity. Red line indicator warns of any vacuum loss. Release valve lever for quick removal. Easy attachment on smooth, non-porous flat surfaces. Complete corrosion resistant finish. Supplied in storage case.

Cup Diameter:	Ø206mm
Maximum Lift Capacity:	80kg (Horizontal)



E Vacuum Suction Cup - Pair
Model No. AK98943

Twin profiled rubber suction cups designed for strength and reliability. Ideal for windscreen installation and glass transportation. Also suitable for other non-porous flat surfaces such as sheet metal and tiles.

Cup Diameter:	Ø150mm
Maximum Lift Capacity:	30kg (Horizontal)



F Twin Head Suction Gripper
Model No. AK9892

Designed for handling material such as glass, tiles, plastic, sheet metal and other non-porous material. Push-lock levers for easy operation.

Cup Diameter:	Ø120mm
Maximum Lift Capacity:	40kg (Horizontal)



G 3pc Windscreen Handling Kit
Model No. WK1

Two glass-reinforced plastic gripper handles with four Ø115mm lever operated suction pads. Powerful suction will handle 60kg of windscreen. Supplied with ratchet tie down to fix screen in position if required.

Cup Diameter:	Ø115mm
Maximum Lift Capacity:	60kg (Horizontal)



H Heavy-Duty Wiper Arm Puller
Model No. VS807

Heavy-duty construction with locking feature allowing the tool to be fastened securely to the wiper arm before commencing pull. Combination of swivel mounted thrust bearing and tommy bar allow even the most stubborn wiper arms to be lifted off their drives. Also suitable for battery terminal and alternator bearing removal.

Maximum Opening:	28mm
Maximum Collar Size:	43mm



I Wiper Arm Removal Tool
Model No. VS806

Cast housing with ball-end thrust bolt for the fast and safe removal of taper mounted windscreen wiper arms.

Maximum Opening:	28mm
Maximum Collar Size:	15mm



A Air Knife
Model No. WK025

Quickly and easily cuts windscreen bonding. Has safety throttle to prevent inadvertent starting and integral regulator for speed control. Leader hose features outer sleeve, directing exhaust away from workpiece and user. Supplied with offset straight blade and hex key. A wide range of optional blades are available, greatly increasing the versatility of this knife in garage and workshop.

Frequency:	333Hz
Operating Pressure:	90psi
Air Consumption:	13.2cfm
Inlet Size:	1/4"BSP
Weight:	1.07kg
Replacement Blade:	WK025FSS57

B - M Air Knife Blades
Model No. SEE BELOW

Blades for Model No. WK025 Air Knife. Also fits other popular brands of air knife.

Model No:	Type:	Length:
B WK025FSS57	Offset Straight	57mm
C WK025FSS90	Offset Straight	90mm
D WK025BT35	Bent	35mm
E WK025FS16	Offset	16mm
F WK025FSC50	Offset Curved	50mm
G WK025FT35	Flat	35mm
H WK025FTS35	Flat Serrated	35mm
I WK025U18	Undercut	18mm
J WK025U24	Undercut	24mm
K WK025U36	Undercut	36mm
L WK025U63	Undercut	63mm
M WK025U90	Undercut	90mm



N Windscreen Removal Tool Blades
Model No. SEE BELOW

Often referred to as cold knife blades, and suitable for use in Model No's AK420, WK020, WK021 and WK022 urethane cutting tools. Hardened then honed blades allow fast separation of screen from bond and can be resharpened.

Model No:	Length:	Pack Quantity:
WK02001	18mm	3
WK02002	25mm	3
WK02003	38mm	3



O Bonded Windscreen Removal Tool
Model No. AK420

Aluminium handle with heavy-duty steel cable. Specially shaped blade is suitable for cutting through bonding resin used to fix modern windcreens. 2-Handed operation permits tool to be accurately guided whilst cutting through bonding.

Replacement Blades:	Model No:
Windscreen 18mm	(Pack of 3) WK02001
Windscreen 25mm	(Pack of 3) WK02002
Windscreen 38mm	(Pack of 3) WK02003



P Washer Jet Tool - Vauxhall/Opel
Model No. AK52207

Designed specifically for the unique washer jets fitted to Vauxhall/Opel vehicles. Tool features four slots that locate into the washer nozzle to allow adjustment.

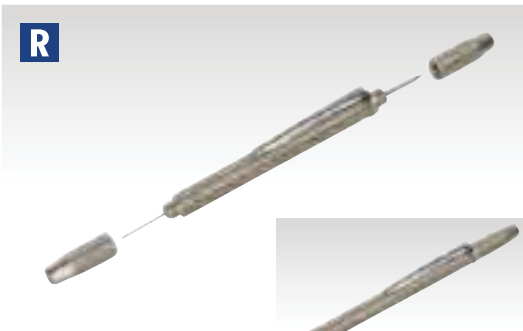
Applications: Vauxhall/Opel; Astra J, Insignia



Q Jet Washer Nozzle Tool - Mercedes
Model No. AK52208

Specially designed two slot profile (6mm/4mm) 55m shaft manufactured to adjust the jet washer nozzle on Mercedes vehicles. OEM Tool: 001 589 02 16 00.

Applications: Mercedes-Benz; W204, W207, W212, W218



R Washer Jet Tool
Model No. AK52206

Compact, double end tool with pocket-clip. Screwed caps house a pointed scribe for cleaning and clearing washer jets at one end and finer probe for adjusting position of jets at the other. Heavily knurled body for sure handling.

Length: 104mm



S Folding Windscreen Stand
Model No. WK4

Lightweight tubular steel design with variable height facility. Large rubber suckers prevent screen from moving during preparation. Folding frame makes this ideal for both workshop and mobile screen preparation.

Width: 1m
Folded Height: 1.2m



A Wire Grip Handles - Pair
Model No. WK0512

Reinforced composite ABS handles with heat treated, chromed steel shafts. Suitable for use with windscreen cutting wire.



B 6pc Windscreen Installation Tool Kit
Model No. WK2

Reinforced composite handles with heat treated, chromed steel shafts. Complete tool kit for the installation of rubber sealed screens including commercial vehicle screens. Handles include hanging eyes for storage.

Contents:	Illustration No:
Locking Tool	1
General Purpose Tools (x2)	2 3
Globe Tool	4
Locking Strip Insertion Tool	5
Assorted Tips	6



C 7pc Windscreen Removal Tool Kit
Model No. WK3

Reinforced composite handles with heat treated, chromed steel shafts. Complete tool kit for the removal of bonded and rubber sealed screens. 1, 6 & 7 Include hanging eyes for storage.

Contents:	Illustration No:
Cutting Wire	1
Wire Grip Handles (x2)	2 3
Bonded Screen Removal Tool	4
T-Handled Wire Starter Tool	5
Trim Clip Remover	6
Trim Pad Remover	7



D Rear View Mirror Release Tool
Ford, Vauxhall/Opel
Model No. WK0340

Enables fast removal of mirrors. Slide prongs between mirror and bracket to release.



E 14pc Windscreen Removal Tool Kit
Model No. WK14

Durable lightweight design delivers on quality and finish. Complete tool kit for the removal of bonded and rubber seal screens. Designed for the professional.

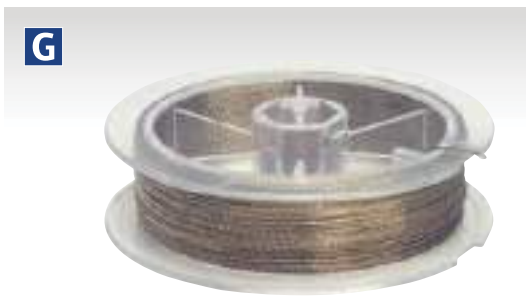
Contents:	Illustration No:
Razor Scraper	1
Trim Clip Remover	2
T-Handled Wire Starter Tool	3
Urethane Knife - Medium	4
Urethane Knife - Long	5
Bonded Screen Removal Tool	6
Cowling Removal Key	7
Pinch Weld Scraper - 13mm	8
Pinch Weld Scraper - 16mm	9
Pinch Weld Scraper - 19mm	10
Trim Pad Remover	11
Wire Grip Handles (x2)	12 13
Cutting Wire	14



F 50m Nylon Windscreen Cutting Wire
Model No. WK0515

Nylon wire offers a more gentle approach to sensitive work areas when cutting windscreen bond. Conventional metal cutting wire risks damage to other surfaces of the vehicle. Comparable in performance to metal cutting wire.

Type:	Nylon
Length:	50m



G-H Windscreen Cutting Wires
Model No. SEE BELOW

Braided and square stainless steel wire suitable for use with wire grips. Use a sawing action to cut through the urethane bond. The square profile has four cutting edges enabling a fast and easy cut, even in cold conditions.

Model No:	Type:	Length:
G WK0513	Braided	22.5m
H WK0514	Square	22.5m



A 450mm Urethane Knife
Model No. WK0321

Suitable for vehicles with deep dashboards or where bonding is out of reach to normal tools. Also great for 2-handed cuts. Extra-long, aluminium construction with vinyl handle. Supplied with blade. Uses standard utility knife blades.

Length:	450mm
Replacement Blades:	AK86/B (Pack of 10)



B 5pc Trim & Upholstery Tool Set
Model No. RT/KIT

Tools designed to simplify trim and trim stud removal. Manufactured from resilient plastic to minimise panel damage and marking.



C 4pc Door Pin Extractor Tool Set
Model No. VS801

Steel pins and anvil. Suitable for removing doors fitted with hollow type hinge pins. Set includes Ø3.2, Ø4.3 and Ø5.5mm pins and hammer anvil. Replacement pins available.

Pin Sizes:	Ø3.2, 4.3, 5.5mm	
Replacement Pins:		
Model No:	Size:	Pack Quantity:
VS801/01	Ø3.2 x 105mm	2



D 330mm T-Handled Wire Starter Tool
Stainless Steel
Model No. WK0511

Stainless steel shaft with contoured T-handle for added grip and comfort. Designed for feeding/starting wire through bonding on windscreens.

Length:	330mm
---------	-------



E Heavy-Duty Door Hinge Pin Tool Set
Model No. VS803

Steel pins and anvil. Suitable for removing doors fitted with hollow type hinge pins. Cranked anvil affords better access and therefore more power for pin removal. Set includes Ø3, Ø5 and Ø5.5mm pins and hammer anvil. Replacement pins available.

Pin Sizes:	Ø3, 5, 5.5mm	
Replacement Pins:		
Model No:	Size:	Pack Quantity:
VS803/01	Ø3 x 110mm	2
VS803/02	Ø5 x 110mm	2
VS803/03	Ø5 x 125mm	2
VS803/04	Ø5.5 x 110mm	2



F Door Hinge & Handle Removal Kit
Model No. VS805

Tools for the removal of door hinges and handles from Audi, Mercedes, Porsche and VW. Kit consists of two long-reach TRX-Star* drivers and an 8mm hex drive reversible ratchet wrench with two TRX-Star* and three spline bits. Supplied in labelled storage pouch.

Contents: 360mm TRX-Star* Driver; T30, 240mm TRX-Star* T-Handle Driver; T20, 8mm Hex Reversible Ratchet Wrench, 8mm Bits; Spline - M4, M8, M10, TRX-Star* - T40, T45



G Door Handle Removal Tool - VAG
Model No. VS139

Used to remove and install the exterior door handle. Suitable for a variety of VAG vehicles including VW Areton, Atlas, Caddy, Passat, Tiguan, Touran, Audi Q2.



H Door Lock Removal Tool - VAG
Model No. VS189

Used to remove and install the lock cylinder. Makes removing the hard-to-reach locking hook a simple operation. Suitable for a variety of VAG vehicles including VW Golf, Fox, Tiguan, Passat, Audi Q7.



I 500ml White Grease Lubricant with PTFE
Model No. SEE BELOW

Suitable for locks, hinges and all moving applications. Penetrates and protects. Lubricates, leaving a protective barrier. Silicone-free formula suitable for bodyshop use.

Model No:	Pack Quantity:
SCS014	6
SCS014S	1



A

A 18pc Radio Release Tool Set
Model No. VS8041

Updated set of specialist tools for the safe, fast, authorised removal of fitted radios. Supplied in wallet.

Applications: Alfa, Alpine, Audi, Becker, BMW, Citroen, Clarion, Fiat, Ford, Grundig, JVC, Mercedes, New Blaupunkt, Peugeot, Pioneer, Porsche, Renault, Skoda, Vauxhall/Opel, VW



B

B 36-Function Radio Release Key Set
Model No. VS8048

36 Tools in one. Set of tools for safe, fast, authorised removal of fitted radios. Composite handle allows firm and comfortable grip.

Applications: Audi, Becker, BMW, Fiat, Bravo/Brava, Ford, JVC, Mercedes, Panasonic, Pioneer, PK-Clarion, Porsche, RK-Kenwood, Skoda, Sony, Vauxhall/Opel, VW



C

C 46pc Radio Release Tool Set
Model No. VS8047

Comprehensive set of tools for release and removal of in-car entertainment units on popular vehicles. Supplied in storage case with stamped application list for simple selection.

Applications: Audi, Becker, Blaupunkt, BMW, Clarion, Fiat Brava, Ford, JVC, Kenwood, Mercedes, Opel-Inbus, Panasonic, Pioneer, Porsche, RK-Kenwood, Skoda, Sony, Vauxhall/Opel, VW



D

D Dashboard Service Set - Mercedes
Model No. VS8046

Stainless steel tools for the easy removal of Mercedes radios, ignition locks and dashboard instruments. Also suitable for removal of Vauxhall/Opel headrest. Supplied in a composite storage case.

Radio Removal Applications: Mercedes; (92on) W140, 129, 202, 210

Ignition Lock Removal Applications: Mercedes; W124, 2pc 126, 201

Instrument Removal Applications: Mercedes; W107, 116, 123, 126, 140, 201

Headrest Locking Slot Removal Applications: Vauxhall/Opel



E - I

E - I Parking Aid Bumper Cutters
Model No. SEE BELOW

Model No:	Hole Diameter:
E VS317	Ø17mm
F VS318	Ø18.2mm
G VS319	Ø19mm
H VS320	Ø20mm
I VS321	Ø21mm



1

Drill 8mm pilot hole.



2

Insert tool & fit the back nut.



3

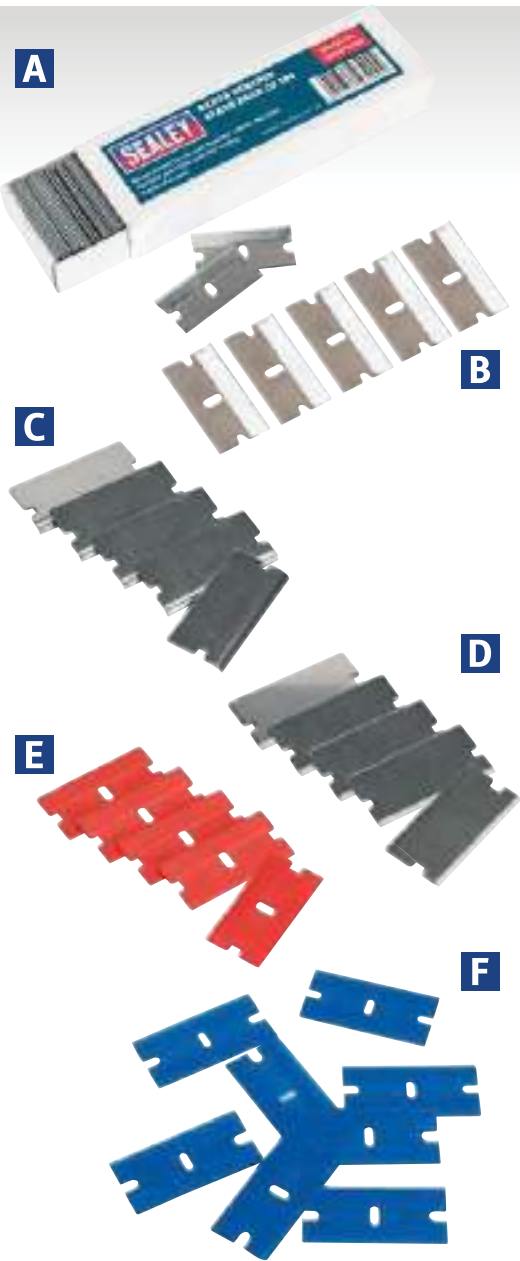
Tighten with a 13mm spanner.



4

Job is complete.

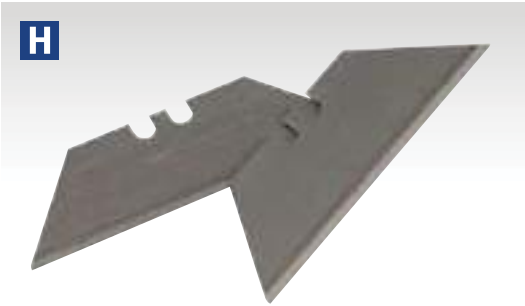
For cutting out correctly sized holes on plastic bumpers and trims ready for PDC (Park Distance Control) sensors.



A - F Blades for AK52504, AK867 & VS500
Model No. SEE BELOW

Blades suitable for use with Sealey Razor Scrapers AK52504, AK867 and VS500.

Model No:	Blade:
A AK867B100 (Pack of 100):	Thin
B AK867/1 (Pack of 5):	Thin
C AK52507/1 (Pack of 5):	Angled
D AK52507/2 (Pack of 5):	Thick
E AK52507/3 (Pack of 5):	Composite
F AK5228 (Pack of 100):	Composite



H Utility Knife Blade - Pack of 10
Model No. AK86/B

Suitable for use with Sealey and other brands of standard/traditional utility knives. Compatible with Model No's AK86, AK8603, AK8604, AK8606, AK8631, PK17, PK19, PK20, PK23, PK27, PK29, PK30, PK5, S0529 and S0555.



G Retracting Razor Scraper with Blades
Model No. AK867

Chrome plated steel construction with retracting blade carrier for extra safety. Supplied with five spare blades.

Length:	100mm
Replacement Razor Blades (Pack of 5):	AK867/1



I Razor Blade Holder
Pack of 5
Model No. AK5227

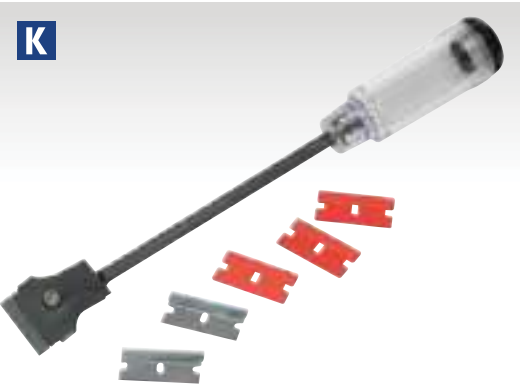
Manufactured from composite material. Suitable for holding plastic or metal razor blades. Supplied in pack of five. Ideal for use with Composite Razor Blades, Model No. AK5228 (see **F**).



J Razor Blade Scraper
Model No. AK52504

Replaceable razor type blade scraper with soft grip handle. Suitable for removing adhesives/paint from glass or metal surfaces.

Blade Size:	39mm
Replacement Razor Blades (Pack of 5):	AK867/1



K Long Reach Razor Scraper
Model No. VS500

Long handled razor scraper. Suitable for scraping gaskets and also for removing labels, stickers and overspray from car windows. Safe storage of spare blades in handle. Supplied with three razor and three composite blades.

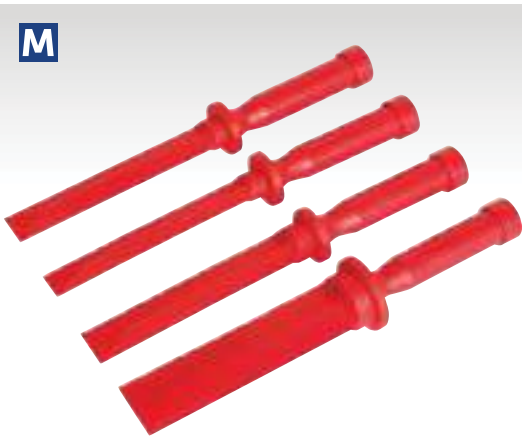
Length:	280mm
Replacement Razor Blades (Pack of 5):	AK867/1
Replacement Composite Blades (Pack of 5):	AK52507/3



L 3pc Rigid Blade Scraper Set
Model No. AK523

1.8mm Ultra-stiff, hardened stainless steel scraper blades suitable for numerous workshop and bodyshop applications including gasket scraping and windscreen preparation. Soft grip handle design gives maximum control.

Contents:	Scrapers; 32, 50mm,
	Angled Scraper (20°); 32mm



M 4pc Composite Scraper Set
Model No. AK5251

Ideal for removing trim, badges and decals from bodywork. Also suitable for removing residue from alloy wheels. Polypropylene edges will not scratch/mark paint or panel work and can be resharpened with a file when required.

Length:	265mm
Blade Sizes:	19, 22, 26, 37mm



A O-Ring & Seal Pick
Model No. AK522
 Double end tool suitable for use with all types of O-ring and grease seal. Knurled barrel gives extra grip to greasy hands.



B 4pc O-Ring Removal Tool Set
Model No. VS5211
 Set of four angled tools that allow removal of O-rings and seals without damage. Features contoured and spoon tips.
Lengths: 130(x2), 200mm(x2)



C 2pc Hose Removal Hook Set
Model No. VS352
 Useful 2pc set with chrome finish shafts and comfort grip handles. Ideal for the removal of coolant hoses, O-rings and seals.
Length: 210mm



D 4pc Mini Hook Set
Model No. AK521
 Chrome finish shafts with knurling for fingertip precision. Suitable for removal of bushings, cotter pins, O-rings and seals. Classic styled handles.
Length: 125mm



E 4pc Mini Hook & Pick Set
Model No. AK5214
 Chrome finish shafts with knurling for fingertip precision. Ergonomically styled handles for comfort, grip and accuracy. Suitable for the removal of bushings, cotter pins, O-rings and seals.
Contents: Straight, Right Angle, Half-Round, Swan Neck
Length: 165mm



F 6pc Extra-Long Pick & Hook Set
Model No. AK5215
 Six long reach picks with black finished steel shafts. Suitable for pin/clip picking and the removal of O-rings and seals.
Contents: Straight, Right Angle, Half-Round, Swan Neck, 45°/ 90° Tip, 40°/45° Tip
Length: 235mm



G-H Rubber Hook Tools
Model No. SEE BELOW
 Hardened and tempered Chrome Vanadium steel shafts. Features textured comfort grip handle. Suitable for a wide variety of windscreen replacement applications.

Model No:	Type:	Length:
G WK0310	Curved	190mm
H WK0313	Long Curved	260mm



I 4pc Extra-Long Pick & Hook Set
Model No. VS5210
 Chrome Vanadium steel extra-long shafts with comfort grip handle. Suitable for various vehicle applications, including the removal of hose clips, hoses, O-rings and seals.
Length: 380mm



J 9pc Scraper & Hook Set
Model No. AK5209
 Four short picks with knurled, steel shafts. Four long picks and one scraper with black finished steel shafts. Suitable for pin/clip picking, hose removal and gasket scraping. Ergonomically styled handles for comfort, grip and accuracy.
Contents: Picks 165 & 260mm; Straight, Right Angle, Half-Round, Swan Neck, Scraper 260 x 21mm



A Trim Stick
Model No. RT01

Suitable for removing interior and exterior trim without damaging the trim or the surrounding area. Manufactured from resilient plastic to minimise panel damage and marking.

Length: 210mm



B 5pc Trim & Upholstery Tool Set
Model No. RT/KIT

Tools designed to simplify trim and trim stud removal. Manufactured from resilient plastic to minimise panel damage and marking.



C 6pc Mini Panel Removal Set
Model No. RT6KIT

Tools with slim profile to simplify removal of small trim items and panels. Ideal for removal of dash trim and internal fittings. Manufactured from resilient nylon to minimise panel damage and marking.



D 12pc Trim & Upholstery Tool Set
Model No. RT12KIT

Comprehensive set, designed to simplify trim and trim stud removal. Manufactured from resilient nylon to minimise panel damage and marking. Includes 11 trim and upholstery tools, plus trim hammer in a heavy-duty storage pouch.



E 27pc Trim & Panel Clip Tool Set
Model No. RT27KIT

Comprehensive 27pc trim clip and panel removing set. Manufactured from resilient nylon to minimize marking. Supplied in a heavy-duty storage pouch.



F 6pc Trim & Upholstery Set
Model No. RT6K

Manufactured from glass reinforced nylon to minimise panel damage and marking. Includes five trim and upholstery tools, plus trim clip removal pliers with spring loaded handles in storage case.



G 3pc Mini Trim Panel Removal Set
Model No. RT014

Ideal for removing interior trim, vents and battery replacement on key fobs. Slim profile and manufactured from resilient nylon to minimise panel damage and marking.

Length: 83mm



H Hog Ring Pliers - Pistol Grip
Model No. HRP002

Suitable for installation of upholstery hog rings, commonly found on vehicle's upholstery. Cupped and spring loaded jaws hold hog rings in place during installation. Features PVC dipped handles for added comfort. See page 1311 for our Hog Rings.

Length: 180mm



A 5pc Door Panel & Trim Clip Tool Set
Model No. RT006

Rigid stainless steel shafts with a fully polished mirror finish. Comprises three door panel and two trim tools. U and V-profile tips simplify the removal of common types of trim stud and fixing, and reduces the risk of damage to surrounding trim. Comfortable grips with thumb stop and hanging hole.

Contents: V-Double Step Door Panel Tool, U-Door Panel Tool, Reverse Door Panel Tool, U-Mini Trim Tool, V-Mini Trim Tool



D 4pc Trim Clip Set
Model No. TR010

Tools designed to simplify the removal of vehicle trims. Set contains door trim tools with U and V-profile tips, angled trim tool for use in confined spaces and window winder clip removal/installation tool.



H Door Trim Clip Tool
Model No. RT007

Suitable for the removal of door trim clips on most vehicles. Features coated U-profile tip to reduce the risk of damage to surrounding trim and contoured textured comfort grip handle.

Length: 290mm



B 2pc Trim Clip Tool Set
Model No. RT005

Rigid stainless steel shafts with a fully polished finish. U and V-profile tips simplify the removal of common types of trim stud and fixing, and reduce the risk of damage to surrounding trim. Comfortable grips with thumb stop and hanging hole.

Contents: U-Mini Trim Tool, V-Mini Trim Tool



E Trim Clip Pliers
Model No. RT004

Spring loaded pliers for trim clip removal without trim damage. Easy-access into confined areas, such as bumper covers.

Length: 240mm



C 6pc Trim Clip Tool Set
Model No. RT006

Designed for the removal of trim clips found on most vehicles. Comprises long and short reach steel shafts with clawed heads. Contoured and textured comfort grip handles.

Lengths: Short; 240mm, Long; 495mm



F - G Trim Clip Tools
Model No. SEE BELOW

Hardened and tempered carbon steel shafts with clawed head. Simplifies trim and trim stud removal. Contoured, textured comfort grip handle.

Model No:	Length:
F RT002	250mm
G RT003	510mm



I Trim Clip Tool
Model No. RT008

Designed to remove trim clips on most vehicles. Features a 70° heel for extra leverage, or for use in confined spaces.

Length: 220mm



A 2pc Lightweight Front Seat Protector Set Model No. CSC5

Set includes two reusable front seat covers. Manufactured from water-resistant lightweight nylon. Ideal for protecting the vehicle's interior from dirt, grease and oil, as well as food and drink spills. Suitable for most cars and light commercial vehicles. Can be fitted to seats with or without airbags.



B 2pc Heavy-Duty Front Seat Protector Set Model No. CSC6

Set includes two reusable front seat covers. Manufactured from heavy-duty water-resistant nylon. Ideal for protecting the vehicle's interior from dirt, grease and oil, as well as food and drink spills. Suitable for most cars and light commercial vehicles. Can be fitted to seats with or without airbags.



C 2pc Heavy-Duty Van Seat Protector Set Model No. CSC7

Set includes driver and twin passenger reusable seat covers. Manufactured from a heavy-duty waterproof nylon. Ideal for protecting the vehicle's interior from dirt, grease and oil, as well as food and drink spills. Also helps to protect against general wear and tear of a vehicle's interior when getting in or out. Ideal protection against dirty overalls.



D 150 x 160mm Panel Bag Model No. VS9110

Durable air cushion device with rigid edges and fine air control valve. Suitable for positioning panels, bonnets and boots, prior to fitment. 2mm Bag thickness and semi-rigid construction allows bag to be slid between window frame and weather-stripping for improved access for emergency vehicle opening tools. Soft air cushion is gentle on paintwork, frame, beadings and glass.

Load Capacity:	135kg
Dimensions (W x H):	150 x 160mm
Minimum/Maximum Thickness:	2-70mm



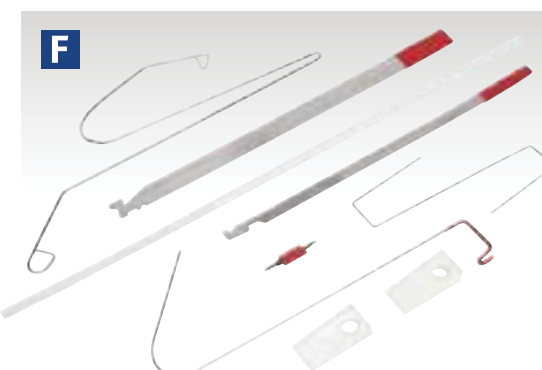
E 4pc Panel Bag Set Model No. VS911

Multipurpose durable air cushion devices with rigid edges and fine air control valve. Suitable for positioning panels, bonnets and boots, prior to fitment. 2mm Bag thickness and semi-rigid construction allow bags to be slid between window frame and weather-stripping for improved access for emergency vehicle opening tools. Soft air cushion is gentle on paintwork, frame, beadings and glass. Supplied in a vinyl pouch.

Load Capacity:	100kg
Bag Dimensions (W x H):	40 x 182, 57 x 188, 160 x 160mm

H Airbag Removal Tool - Land Rover Model No. VS5212

For safely removing the airbag module from the steering wheel. Suitable for Land Rover Discovery 3-4, Freelander 2 and Range Rover Sport. Land Rover OEM tool 501-106. Also used across the VAG ranges as a trim, door handle, A/C vent, clock removal, fuel tank flap removal/release tool. VAG OEM tool T40207.



F Emergency Car Opening Kit Model No. EC95

Will open a comprehensive range of European and Japanese cars. Supplied in pouch.* EC95 is for distribution to bona fide vehicle dealers or repair centres only. As with all hand tools the results achieved with this kit will depend on the skill of the operator.

Contents: Window Wedges, Strip Type Catches, Wire Catches, Plastic Knob Catch, Fuel Cap Keys



G Rear View Mirror Release Tool - Ford, Vauxhall/Opel Model No. WK0340

Enables fast removal of mirrors. Slide prongs between mirror and bracket to release.





A 5pc Cooling System Pressure Test Kit
Model No. VS0033

Capless tester uses cone adaptor system to seal and pressurise the cooling system. Adaptors may be used to replace both screw and bayonet type cap fittings. Kit includes pump with gauge and four system adaptors for use on a wide range of vehicle applications.

Cone Adaptor Sizes: 17-24, 28-31.5, 37-39.5, 47-48.5mm



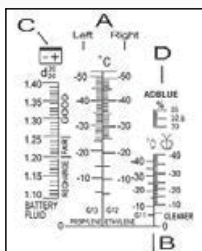
Tests:

Battery Fluid

Antifreeze

Screenwash

AdBlue®



D Refractometer
Antifreeze/Battery Fluid/Screenwash/AdBlue®
Model No. VS0052

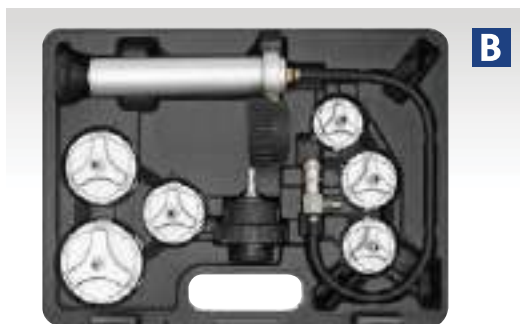
Accurately measures the strength of battery fluid, screenwash, antifreeze and AdBlue® by measuring the refractive index of light passing through the mixture. Suitable for synthetic antifreeze mixtures including long life OAT (Organic Acid Technology), G13 and aqueous/urea content of AdBlue®. Temperature corrected prism ensures accuracy. Eyepiece with adjustable focus. Simple calibration check using distilled water. Supplied with pipette and storage case.



G 1.5L AdBlue® Retriever
Model No. CV557

Purposely designed for the extraction of AdBlue® from a commercial vehicle reservoir tank. Extracts up to 1.5L, saving time and money when compared to other methods.

Capacity: 1.5L
Tube Length: 432mm



B 7pc Cooling System Pressure Test Kit
Model No. CV0011

Cooling system pressure testing kit, designed for commercial vehicles. Pressure pump with gauge quickly identifies faulty gaskets, radiators, weeping pipes and other causes of coolant loss.

Applications: DAF, Iveco, MAN, Mercedes, Renault, Scania, Volvo



E Radiator Coupler - Scania
Model No. CV014

Radiator coupler for draining and filling coolant system fitted to Scania trucks and buses.

Applications: Scania; 340/360 Truck/Bus - 4/5 Series

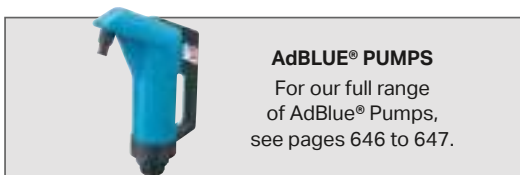


H 46mm 3/8"Sq Drive Filter Wrench AdBlue® Mercedes
Model No. SX120

Designed to remove AdBlue® filter housing cap on BlueTec engines, fitted to Mercedes commercial vehicles.

Size: 46mm
Drive: 3/8" Sq
Application: BlueTec Engines - Mercedes (Commercial)

COOLING SYSTEM PRESSURE TESTERS
For our full range of Cooling System Pressure Testers, see pages 518 to 519.



AdBLUE® PUMPS

For our full range of AdBlue® Pumps, see pages 646 to 647.



C Cooling System Flush Gun
Model No. VS0044

Enables thorough flushing of debris and contaminants from cooling system during repair and maintenance. Powered by workshop air, which creates a vacuum to draw water from a container. Can also be used with mains pressure tap water.

Adaptor Sizes: Ø19, 29, 32, 37, 40mm
Air Inlet Size: 1/4" BSP
Water Inlet Size: Ø15.5mm
Operating Pressure: 90psi



F 17L Antifreeze/Fluid Drain Pan
Model No. DRP04

Colour-coded version of Model No. DRP03 helps keep different fluids isolated and reduces cross contamination.

Capacity: 17L
Approximate Diameter: Ø460mm
Height: 150mm



I Headlamp Beam Setter with Rails & Commercial Aiming Screen
Model No. HBS97.HGV

For specification, see page 586.



A Crankshaft Rotator - DAF
Model No. CV026

Designed to rotate crankshaft on DAF commercial vehicles via flywheel ring gear.

Drive: 24mm Hex
Application: DAF; 35-42 tonne Euro 3



D Crankshaft Rotator - DAF
Model No. CV002

Designed to rotate crankshaft on DAF commercial vehicles via flywheel ring gear.

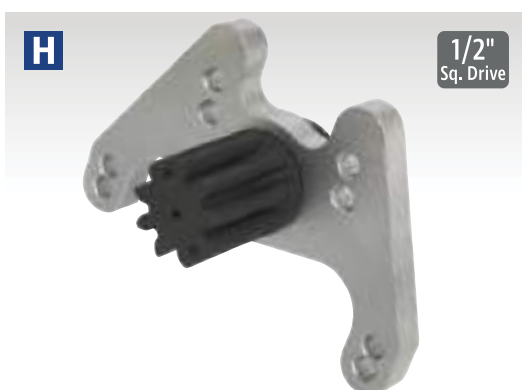
Drive: 1/2" Sq.
Applications: DAF; 35-42 tonne Euro 4, XF105 Euro 5



G Crankshaft Rotator - MAN
Model No. CV005

Designed to rotate crankshaft on MAN commercial vehicles via flywheel ring gear.

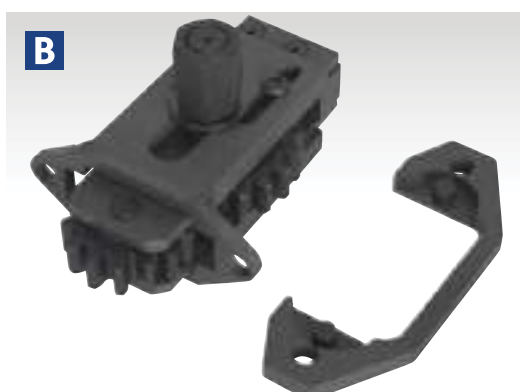
Drive: 1/2" Sq.
Applications: MAN; D20, D25, D26, D28



H Crankshaft Rotator - Volvo
Model No. CV039

Designed to rotate crankshaft on Volvo commercial vehicles via flywheel ring gear.

Drive: 1/2" Sq.
Applications: Volvo; D9A, D11B, D12, D16C, Renault; DXi11, DXi12



B Crankshaft Rotator - Iveco
Model No. CV028

Designed to rotate crankshaft on Iveco commercial vehicles via ring gear.

Applications: Euro Cargo, Eurotech, Off-Road, Bus
Engine Codes: 8040-25-45, 8060-25-45, 8460, 8260, 8280, 8210.42, 190.38, 190.42



E Crankshaft Rotator - Mercedes
Model No. CV038

Designed to rotate crankshaft on Mercedes commercial vehicles via flywheel ring gear.

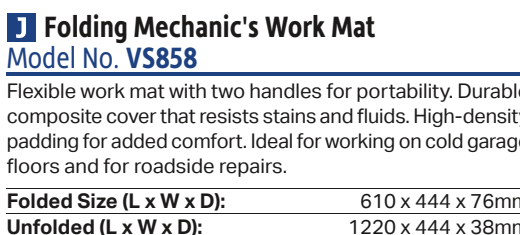
Drive: 1/2" Sq.
Applications: Mercedes; OM457, OM541, OM542, OM902, OM904, OM906, OM924, OM926, MAN; D25, D28



I Crankshaft Rotator - Scania
Model No. CV011

Chrome Vanadium steel with a phosphate finish. Designed to rotate the crankshaft on Scania commercial vehicles.

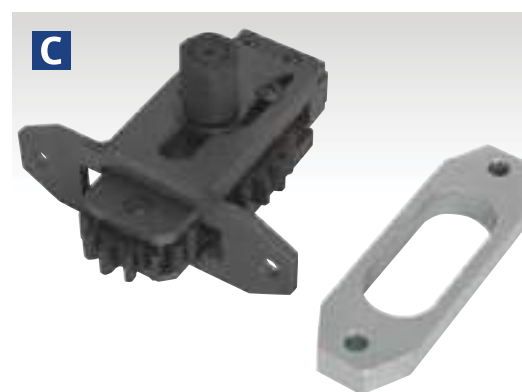
Drive: 1/2" Sq.
Application: Scania



J Folding Mechanic's Work Mat
Model No. VS858

Flexible work mat with two handles for portability. Durable composite cover that resists stains and fluids. High-density padding for added comfort. Ideal for working on cold garage floors and for roadside repairs.

Folded Size (L x W x D): 610 x 444 x 76mm
Unfolded (L x W x D): 1220 x 444 x 38mm



C Crankshaft Rotator - Iveco
Model No. CV029

Designed to rotate crankshaft on Iveco commercial vehicles via ring gear.

Applications: Cargo 150E27R PR/FPR 320E27T, Euro Cargo, PT Euro tech, Eurostar
Engine Codes: 8360.46, F3A, F3B



F Crankshaft Rotator - Mercedes
Model No. CV037

Designed to rotate crankshaft on Mercedes commercial vehicles via flywheel ring gear.

Drive: 1/2" Sq.
Applications: Mercedes; OM401, OM402, OM403, OM404, OM407, OM409, OM421, OM422, OM423, OM424, OM427, OM429, OM441, OM442, OM444, OM446, OM447, OM457, OM489, OM541, OM542, MAN; D2842





A Ø80-190mm Swivel Jaw Filter Pliers
Model No. CV6417

Jaws swivel up to 90° to give access to awkwardly positioned oil, fuel and air brake filters. Chemically blackened finish to prevent corrosion and non-slip grip for added comfort and control.

Capacity: Ø80-190mm



B Ø95-178mm Oil Filter Pliers - Commercial
Model No. CV6412

Large forged pliers with chemically blackened finish. Serrated jaws and long handles for extra grip on oily filters. Features a ratchet joint adjustable head. Essential tool for removing commercial filters.

Capacity: Ø95-178mm
Length: 520mm



C Ø57-120mm Swivel Jaw Filter Pliers
Model No. AK6417

Jaws swivel up to 90° to give access to awkwardly positioned oil and fuel filters. Chemically blackened finish to prevent corrosion and non-slip grip for added comfort and control.

Capacity: Ø57-120mm



D 9pc 1/2"Sq Drive Oil Filter Cap Wrench - Commercial
Model No. VS7007

Cap type, 1/2"Sq drive, filter wrenches for commercial vehicles. Designed to grip like sockets, minimising the possibility of crushing filters. Includes strap wrench and 21mm wrench. Supplied in storage case.

Drive:	1/2"Sq
Contents:	
Size:	Flutes / Steps:
36mm	6 / 1
76mm	14 / 1
106mm	15 / 1
107mm	15 / 1
108mm	15 / 1
108mm	18 / 1
135mm	18 / 1
Wrench:	21mm
Strap Wrench:	Ø160mm
Applications:	Fiat; Ducato 2.5D/TD, Iveco, MAN; L2000, F2000, TGA, Mercedes; Actros BR500, Atego BR900, Axor BR400, Sprinter, Renault, Scania, Vauxhall/Opel; Movano, Volvo, VW; Transporter



E Ø60-105mm Oil Filter Chain Wrench
Model No. VS936

Steel chain wrench with 180° pivoting handle suitable for filters with limited access. Heavy-duty chain with spring locking mechanism for added security.

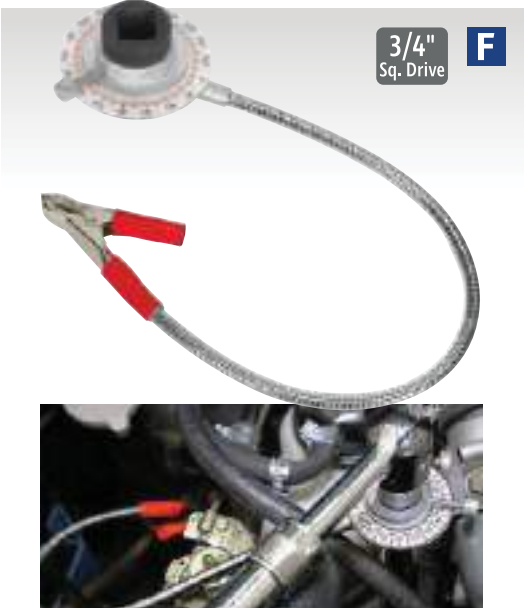
Capacity: Ø60-105mm



G 4pc Diesel Injector Socket Set
Commercial
Model No. VS2061

Suitable for the removal and installation of truck and bus diesel injectors. Castellated socket fits common injectors on MAN, Mercedes, Neoplan and Setra. Also suitable for some Iveco, Renault and Scania vehicles.

Contents: 1/2"Sq Drive x 72mm x 4-Tooth, 1/2"Sq Drive x 120mm x 3-Tooth, Hex 32mm x 70mm x 4-Tooth (M14 x 1.5mm Receiver Thread), Hex 32mm x 122mm x 4-Tooth for MAN, Mercedes, Neoplan & Setra



F 3/4"Sq Drive Clip-On Angular Torque Gauge
Model No. VS430

Steel dial and rotating index line allows operator to accurately tighten cylinder head bolts and other fixings to manufacturer's exact specifications. Long reach flexi-arm with clip end provides extra stability and precision.

Drive: 3/4"Sq



H 500ml Freeze Shock & Release Spray Lubricant
Model No. SCS036S

Aids release of corroded and seized parts. Fast shock freeze action penetrates the corroded area. Displaces moisture. Penetrates, lubricates and helps prevent future corrosion.

Size: 500ml



A Air Brake Test Gauge - Commercial
Model No. VS931

Locate problems relating to commercial vehicle air brake pressure quickly and easily. Suitable for use at the roadside or workshop. Features a large 0-20bar(0-300psi) gauge with rubber bumper and hose. Supplied with wire brush and male and female couplings in storage case.

Hose Length: 2m
Test Point Adaptor: M16 x 1.5mm



D Brake Shoe Spreader - Volvo Truck
Model No. CV013

Locks the brake shoe open, allowing the shoe lining to be replaced. A must have tool for servicing front and rear brakes on Volvo commercial vehicles.

OEM Tool: 9998550
Applications: Volvo; F7, F12, F16, FH12, FH16, FL7, FL10, N7, N10, N12



H Brake Spring Pliers - Commercial
Model No. CV252

Designed for the removal/installation of drum shoe retaining springs, found on commercial vehicles.

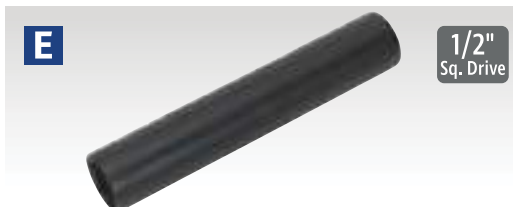
Length: 510mm



B Air Brake Test Gauge Set - Commercial
Model No. VS932

Locate problems relating to commercial vehicle air brake pressure quickly and easily. Three gauges provide more accurate diagnosis when testing and locating faults along the braking system. Suitable for use at the roadside or in the workshop. Features three large 0-20bar(0-300psi) gauges with rubber bumper. Supplied with male/female couplings, three hoses and a wire brush in storage case.

Hose Length: 5m
Test Point Adaptor: M16 x 1.5mm



E 19mm Air Brake Chamber Nut Socket
Model No. CV027

Heavy-duty, 6-point, long reach impact socket. Designed for the adjustment of air brake chamber spring cage bolt.

Drive: 1/2" Sq.
Size: 19mm
Length: 136mm



G 2L Axle Oil Drain Pan
Model No. CV124

Manufactured from hard-wearing polypropylene material. Locates comfortably in wheel and ensures safe and clean collection of waste oil.

Capacity: 2L



I Twin Licence Frame
Model No. CV036

Twin licence holder for commercial vehicles.

Dimensions: Ø83mm (x2)



C Air Dryer Cartridge Chain Wrench
Commercial
Model No. CV936

Steel chain wrench with 180° pivoting handle suitable for filters with limited access. Heavy-duty chain with spring locking mechanism for added security. Essential tool for removing commercial air brake filters.

Capacity: Ø60-160mm



F Air Dryer Cartridge Remover - Commercial
Model No. VS935

Spring loaded air dryer filter wrench. Essential tool for removing commercial air brake filters.

Drive: 1/2" Sq.
Capacity: Ø110-140mm



J-K Vehicle Height Indicators - Commercial
Model No. SEE BELOW

Fully adjustable height indicators for commercial vehicle cabs.

Model No: Height Range:
J CV032 8-20ft
K CV032M 2-6.75m

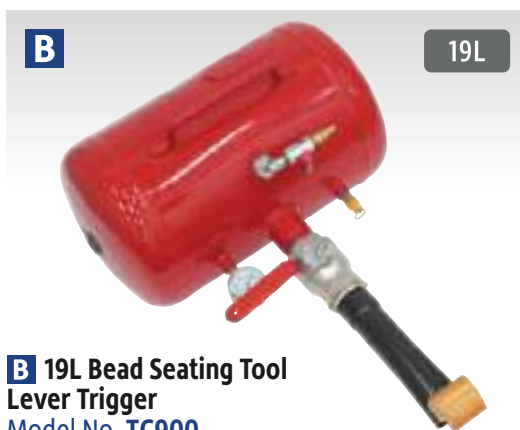


A Hydraulic Bead Breaker
Model No. TC966

Hydraulic action, suitable for breaking beads on commercial and agricultural tyres. Use in conjunction with hydraulic pump and hose (not included).

Optional Hydraulics:	Model No:
1 Manual Pump:	RE97.10-01
2 Air Pump:	RE83/840
3 Hose with Half Coupling:	RE97.10-03

Hydraulic



B 19L Bead Seating Tool
Lever Trigger
Model No. TC900

The easy and instant way to seat tubeless tyre beads. Dumps air into tyre void forcing bead to seat against rim for inflation. Air release is controlled by a hand lever operating a ball valve. Fully certified tank with gauge and safety valve prevents over pressurising. Suitable for use on cars, commercials, agricultural and ATV tyres.

Maximum Pressure:	150psi(10.4bar)
Tank Capacity:	19L
Weight:	12.6kg



C 19L Bead Seating Tool
Push-Button Trigger
Model No. TC904

The easy and instant way to seat tubeless tyre beads. Dumps air into tyre void forcing bead to seat against rim for inflation. Air release is controlled by a diaphragm valve and push-button trigger. Features slotted key to prevent accidental operation of the trigger. Fully certified tank with gauge and safety valve prevents over pressurising. Suitable for use on cars, commercials, agricultural and ATV tyres.

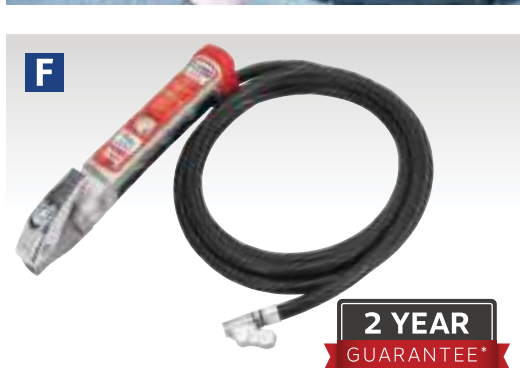
Maximum Pressure:	150psi(10.4bar)
Tank Capacity:	19L
Weight:	13.2kg



E 940mm Tyre Lever - Commercial
Model No. VSTL940

Carbon steel tyre lever with hook ends. Suitable for use on commercial vehicle tyres.

Length:	940mm
---------	-------



F Professional Tyre Inflator with
2.5m Hose & Clip-On Connector
Model No. SA37/94

Manufactured to comply with EN 12645. Linear pressure scale, dual calibrated, with parallax correction. 2.5m Hose with clip-on, air connector for compliance with safety regulations relating to inflation of commercial and agricultural vehicle tyres. Supplied with a serial numbered calibration certificate.

Range:	0-9.6bar(0-140psi)
Minimum Air Supply:	5.5bar(80psi)
Maximum Air Supply:	15bar(218psi)
Inlet Size:	1/4"BSP



D Torque Multiplier Wheel Nut Wrench 65:1
Model No. SX500

Ideal for removing/installing wheel nuts on commercial and light commercial vehicles when air impact wrench is not easily accessible. Supplied in storage case with two impact sockets and 210mm extension.

Output Drive:	1"Sq (Male)
Ratio:	65:1
Maximum Rated Output:	6200Nm
Socket Sizes:	32, 33mm



G Digital Tyre Inflator with
2.7m Hose & Clip-On Connector
Model No. SA375

Die-cast aluminium body with large rubber bumper, backlit LCD digital display and battery level indicator. Auto-power-off after 8 seconds and auto-power-on once pressure is sensed, or air inflation starts. 2.7m Flexible hose fitted with clip-on air connector.

Range:	0-12bar(0-174psi)
Maximum Air Supply:	13.8bar(200psi)
Inlet Size:	1/4"BSP
Pressure Units:	bar, psi, kPa
Battery:	2 x AAA (supplied)



A Groove Axle Nut Socket with 6 Studs MAN/Mercedes

Model No. CV007

Chrome Molybdenum, drop-forged, 6-tooth impact socket, designed for the removal and refitting of axle nut found on MAN TGA and Mercedes trucks.

Drive:	3/4"Sq, 60mm Hex
Inner Diameter:	Ø101mm
Outer Diameter:	Ø110mm
Tooth Width:	12mm
Applications:	MAN TGA, Mercedes Truck



B Axle Hub Nut Socket - Scania (420) Model No. CV008

Chrome Molybdenum, drop-forged, 8-stud impact socket, designed for grooved lock nut fitted to Scania (420) axle systems.

Drive:	3/4"Sq
Inner Diameter:	Ø102mm
Outer Diameter:	Ø119mm
Stud Diameter:	Ø102mm
Stud Width:	9.5mm
Application:	Scania (420)



C 100mm Rear Hub Nut Socket - Scania Model No. CV004

Drop-forged, 8-point, steel impact socket designed for the removal of rear hub nut found on Scania commercial vehicles.

Drive:	3/4"Sq
Size:	100mm
Application:	Scania



D 80mm Front Hub Nut Socket - Scania Model No. CV001

Drop-forged, 8-point, steel impact socket designed for the removal of front hub nut found on Scania trucks.

Drive:	3/4"Sq
Size:	80mm
Application:	Scania



E 95mm Third Axle Socket Scania Ten-Wheel Cab Model No. CV003

Drop-forged, 8-point, steel impact socket designed for the removal of the third axle nut found on 10-wheel Scania cab.

Drive:	3/4"Sq
Size:	95mm
Application:	Scania Cab



F 115mm Wheel Shaft Cover Socket - Volvo Model No. CV006

Chrome Molybdenum, drop-forged, 8-point, high-impact socket, designed for the removal of front and rear axle covers found on Volvo commercial vehicles.

Drive:	1"Sq
Size:	115mm
Application:	Volvo



G Axle Nut Socket for BPW 6.5-9tonne Roller Bearings Model No. CV010

Chrome Molybdenum, drop-forged, high-impact, flat oval socket, designed for the removal of BPW axle nut.

Drive:	3/4"Sq
Inner Diameter:	Ø61mm
Cutout:	65 x 40mm



H Axle Nut Socket for BPW 12tonne Roller Bearings Model No. CV009

Chrome Molybdenum, drop-forged, high-impact, flat oval socket, designed for the removal of BPW axle nut.

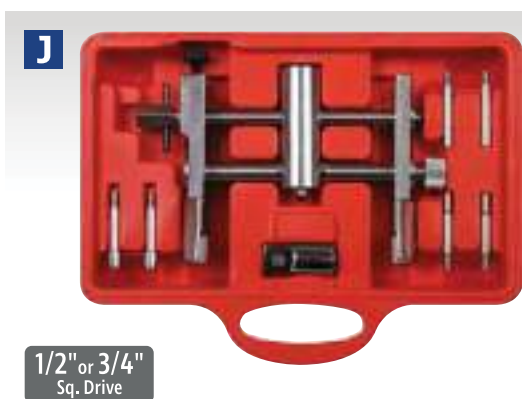
Drive:	3/4"Sq
Inner Diameter:	Ø73mm
Cutout:	80 x 49.5mm



I 140mm Axle Nut Socket - SAF Euro Model No. CV019

Designed for axle nut fitted to SAF Euro trucks. Suitable for use with 46mm socket, together with impact or torque wrench.

Drive:	32, 46mm Hex
Size:	140mm
Application:	SAF Euro Axle



J Adjustable Wheel Bearing Lock Nut Tool Model No. VS954

Made from high quality Chrome Vanadium steel for added strength and durability. Universal fitting, suitable for removing adjustable wheel bearing lock nuts found on commercial vehicles. Use with hexagonal and octagonal lock nuts and those with and without locating pins. Use with 1/2" or 3/4"Sq drive breaker bar. Supplied in storage case.

Maximum Torque:	677Nm(500lb.ft)
Capacity:	
Hexagonal Lock Nuts:	49-135mm Across Flats
Octagonal Lock Nuts:	49-143mm Across Flats
Pin Diameter:	Ø6, 8, 10mm



K Axle Grease Cap Pliers - Commercial Model No. CV251

Heavy-duty pliers for the removal of axle grease caps found on commercial vehicles.

Length:	480mm
---------	-------



A Impact Sockets
Model No. SEE BELOW

Standard

Chrome Molybdenum, drop-forged, 6-point impact sockets. Hardened and tempered for strength and with phosphate finish for greater corrosion resistance.

Drive:	1"Sq
Model No:	Size:
CV085	85mm
CV090	90mm
CV095	95mm
CV100	100mm
CV105	105mm
CV110	110mm
CV115	115mm
CV120	120mm



D 98mm Axle Nut Socket - Iveco
Model No. CV016

Chrome Molybdenum, drop-forged, 6-point, high-impact socket, designed for the removal of Iveco Eurocargo axle nut.

Drive:	3/4"Sq, 36mm Hex
Size:	98mm
Application:	Iveco; Eurocargo Axle Nut



G 110mm Axle Nut Socket - Iveco H36 Drive
Model No. CV024

Chrome Molybdenum, drop-forged, 12-point, high-impact socket designed for the removal of axle nut found on Iveco Eurotech-Cursor.

Drive:	36mm Hex
Size:	110mm, 12-point
Application:	Iveco; Eurotech-Cursor



H 95mm Axle Nut Socket - Mercedes
Model No. CV015

Chrome Molybdenum, drop-forged, 12-point, high-impact socket designed for the removal of Mercedes trailer axle nut.

Drive:	36mm Hex
Size:	95mm, 12-point
Application:	Mercedes; Trailer Axle Nut



B Wheel Nut Impact Sockets
Model No. SEE BELOW

Drop-forged Chrome Molybdenum, 6-point impact sockets. Hardened and tempered for added strength, with a phosphate finish for greater corrosion resistance. 400mm Length for easy-access.

Drive:	3/4"Sq
Length:	400mm
Model No:	Size:
CV24	24mm
CV27	27mm
CV30	30mm
CV32	32mm
CV36	36mm



E 80-95mm Axle Lock Nut Socket
Model No. CV022

Chrome Molybdenum, drop-forged, 6-stud impact socket with bayonet locking tube. Designed for grooved lock nut fitted to Mercedes Atego rear axle on Vario 814 and MAN vehicles.

Drive:	3/4"Sq
Inner Diameter:	Ø80mm
Outer Diameter:	Ø95mm
Stud Diameter:	Ø87mm
Stud Width:	10mm
Locking Tube:	
Inner Diameter:	Ø40mm
Outer Diameter:	Ø49mm
OEM Number:	9703530026



C 105-125mm Axle Lock Nut Socket
Model No. CV020

Chrome Molybdenum, drop-forged, 6-stud impact socket with locating tube. Designed for grooved lock nut fitted to Mercedes Actros rear axle and HL/HL 8 (Hypoid) axles.

Drive:	3/4"Sq
Inner Diameter:	Ø105mm
Outer Diameter:	Ø125mm
Stud Diameter:	Ø116mm
Stud Width:	10mm
Locating Tube:	
Inner Diameter:	Ø47.5mm
Outer Diameter:	Ø60mm



F 133-145mm Axle Lock Nut Socket
Model No. CV021

Chrome Molybdenum, drop-forged, 6-tooth impact socket with detachable inner location sleeve. Designed for lock nut fitted to MAN TGA axles.

Drive:	3/4"Sq, 60mm Hex
Inner Diameter:	Ø133mm
Outer Diameter:	Ø145mm
Stud Diameter:	Ø117mm
Tooth Width:	11mm
Applications:	MAN TGA Axle
Sleeve:	
Inner Diameter:	Ø60mm
Outer Diameter:	Ø66mm
Length:	115mm

I 5pc Brake Caliper Slogging Wrench Set
Model No. CV212

Used for installing and removing the brake caliper bolts on commercial vehicles. Designed with a 3/4"Sq drive for use with a torque wrench. Formula for calculating the correct effective length laser etched on wrench. Two striking faces for access and aiding in loosening of bolts.

Drive:	3/4"Sq
Size (ID/OD):	TRX-Star*; E18, E20, E24, Socket 12-point; 24, 26mm



A 1.5tonne **Hydraulic**

A Hydraulic/Manual Ball Joint Splitter
Light Commercial
Model No. VS3811

Forged steel body, ball joint splitter suitable for light commercial vehicles. Specially designed to be operated manually or by 1.5tonne hydraulic ram (supplied). Features a step down thread adaptor that allows fitting of the manual thrust screw.

Jaw Width:	19mm
Jaw Opening Capacity:	47mm



B 10tonne **Hydraulic** **HEAVY DUTY**

B Hydraulic/Manual Ball Joint Splitter
Commercial
Model No. VS3813

Heavy-duty ball joint splitter suitable for commercial vehicles. Specially designed to be operated manually or by 10tonne hydraulic ram (supplied). Features a step down thread adaptor that allows fitting of the manual thrust screw or hydraulic ram. Hydraulic ram interchangeable with Model No. PS990, see page 628.

Jaw Width:	35mm
Jaw Opening Capacity:	100mm



C 12tonne **Hydraulic** **HEAVY DUTY**

C 9pc Hydraulic/Manual
Ball Joint Splitter - Commercial
Model No. VS3814

Heavy-duty ball joint splitter with interchangeable jaws. Enables operator to select correct jaw size without taking entire splitter to the vehicle. Use manually or with 12tonne hydraulic ram (supplied).

Jaw Width:	Small; 30mm, Medium; 34mm, Large; 40mm
Jaw Opening Capacity:	100mm
Thrust Screw Lengths:	82, 100mm
Pivot Rod Length:	95mm



D - E Ball Joint Splitters - Commercial
Model No. SEE BELOW

Chemically blackened forged steel bodies with thrust bolt. High strength construction, suitable for commercial vehicle ball joints.

Model No:	Jaw Width:
D VS3804	33mm
E VS3805	42mm



1/2"
Sq. Drive

F 11pc Ball Joint Socket Set
Model No. CV025

Chrome Molybdenum, 4-tooth sockets specially designed to remove castellated lock nut found on ball joints, axles and other applications.

Drive:	1/2"Sq
ID/OD (Tooth Width):	Ø15/22(3), 18.5/26(3), 21/30(4), 24.5/33(4), 27/37(4), 33.5/44(5), 38/50(5), 44.5/56(5), 50.5/63(6), 55/69(6), 61/75(6)mm

H Ball Joint Splitter - Commercial
Model No. CV012

Interchangeable jaws and robust body, designed for the removal of ball joints fitted to commercial vehicles.

Drive:	17mm Hex
Jaw Width:	24, 32mm



G Ball Joint Splitter - Commercial
Model No. VS3812

Chemically blackened forged steel body with thrust bolt. Suitable for commercial applications.

Jaw Width:	35mm
-------------------	------



I Hydraulic Bush Tool - Commercial
Model No. CV040

Designed for the installation and removal of slotted bushes on commercial spring suspension. Includes a 12tonne hydraulic cylinder (supplied without hydraulic pump). Use in conjunction with Hydraulic Pump Model No's; RE83/840/CWH (Air/Hydraulic) or RE97.10-01 (Hydraulic). Installation protects the bush using the parallel working tension elements. Suitable for use on the vehicle. Safe and easy-to-use.

Applications:	Volvo (FM12), Renault (430/450/460), MAN-TGA (410/414/460), DAF
----------------------	---



J Clutch Alignment Set - Commercial
Model No. CV031

Suitable for a wide range of commercial vehicles. Screw action provides fast adjustment to suit hub diameter. Four interchangeable spigot adaptors aid close alignment.

Spigot Adaptors:	Ø20, 25, 27, 30mm
Mandrel:	Ø36-45, 42-52mm



K Ball Joint
Dust Covers
Commercial Vehicles
Pack of 3
Model No. RJC02

Multipurpose ball joint dust covers easily replace split or damaged dust covers on otherwise serviceable ball joints, avoiding MOT test failure. Pack contains three ball joint dust covers supplied with retaining O-rings and fitting tool. Covers a wide range of commercial vehicle applications.

Hole Sizes:	Ø18 x 40.5mm
--------------------	--------------



A 500kg Wheel Removal Trolley
Adjustable Width
Model No. W508T

Suitable for changing wheels and tyres on large vehicles. 7-Position adjustable roller width ranging from 440 to 780mm, giving greater flexibility. Load arms incorporate smooth roller action sleeves allowing wheel to be rotated for lining up on studs. Foot operated hydraulic mechanism with dead man's control release. Mounted on two rear locking castors and two front castors for stability and easy manoeuvrability. Supplied with safety chain.

Maximum Lifting Capacity:	500kg
Minimum Lifting Height:	50mm
Maximum Lifting Height:	640mm
Width Between Rollers:	440, 496, 560, 610, 668, 724, 780mm
Roller Length:	620mm



C 127kg Wheel & Tyre Handling Dolly
Model No. TH002

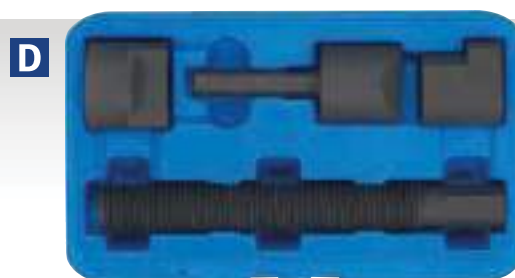
Enables commercial sized wheels and tyres to be removed/installed on hub studs.

Capacity:	127kg
Fork Centres:	535mm
Length:	1255mm



B 1200kg Wheel Removal Trolley
Model No. W1200T

Eight adjustable rollers (four each side) allow for easy turning of large deep tread tyres. Extra-large jacking handle and hydraulic foot pedal allow for one-person operation. Safety bar with composite guard goes around wheel to ensure stability during transportation. Locking mechanism allows rollers to be fixed at eight preset positions. Mounted on two locking and two non-locking castors for improved stability and easy manoeuvrability. Ideal for use on agricultural and commercial wheels and tyres.



D Dual Wheel Separator - Commercial
Model No. CV500

Designed to remove stubborn steel wheels on commercial vehicles. Applicable for twin and single wheel set-up. Blackened finish for added corrosion resistance. Suitable for use with air/electric impact guns.



F Wheel Chock with Bracket - Commercial
Model No. CV127

High-density plastic with anti-slip steel bar. Prevents vehicle movement when being jacked on a level surface or parked on an incline not exceeding 15 degrees. Steel chock bracket designed to mount to wall or trailer.

Chock Weight:	1.7kg
Chock Dimensions (W x D x H):	200 x 475 x 225mm



Maximum Lifting Capacity:	1200kg
Minimum Wheel Diameter:	Ø1000mm
Maximum Wheel Diameter:	Ø2200mm
Roller Length:	490mm
Minimum Lifting Height:	0.1mm
Maximum Lifting Height:	760mm
Overall Size (W x D x H):	1300 x 1015 x 1500mm
Weight:	118kg



E 9pc Wheel Locating Guide Set - Commercial
Model No. CV211

Includes three sets of locating guides, designed to help align and mount the wheel on commercial vehicles.

Thread Sizes:	Female Thread; M18 x 1.5mm, M20 x 1.5mm, M22 x 1.5mm
----------------------	--

F Wheel Chock with Bracket - Commercial
Model No. CV127

High-density plastic with anti-slip steel bar. Prevents vehicle movement when being jacked on a level surface or parked on an incline not exceeding 15 degrees. Steel chock bracket designed to mount to wall or trailer.

Chock Weight:	1.7kg
Chock Dimensions (W x D x H):	200 x 475 x 225mm



A 15pc Re-Threading Kit
Model No. AK310

Taps and dies are suitable for chasing out damaged threads and the removal of nicks and burrs without undercutting good threads. Use with a standard spanner and a little light oil. Thread file restores damaged external threads on any diameter, right or left-hand - just select correct pitch. Ideal for restoration work. Supplied in tool tray.

Contents: Taps & Dies; 6 x 1, 8 x 1.25, 10 x 1.25, 10 x 1.5, 12 x 1.25, 12 x 1.5, 12 x 1.75mm, Thread Restorer File; 0.75, 1, 1.25, 1.5, 1.75, 2, 2.5, 3mm Pitch



D Thread Repair Master Kit
Model No. TRMK

Suitable for five common sizes of thread. Creates a stronger internal thread in soft metals. Ideal for repairing damaged or stripped internal threads. Protects tapped threads against wear and damage. Includes drill bits, thread taps, stainless steel thread inserts, insert installation and lug breaking tools. Supplied in metal storage case.

Thread Sizes: M5 x 0.8, M6 x 1, M8 x 1.25, M10 x 1.5, M12 x 1.75mm

Thread Lengths: M5 x 4.5mm (x25), M6 x 5.5mm (x25), M8 x 8 (x25), M10 x 10mm (x25), M12 x 11mm (x10)

Replacement Thread Inserts: TRM5R, TRM6R, TRM8R, TRM10R, TRM12R



G Stud Remover & Installer
Model No. VS7232

Suitable for the removal and installation of various sizes of stud. Cam rotates to grip onto the stud for quick and easy use. Use with 1/2" Sq. Drive ratchet wrench.

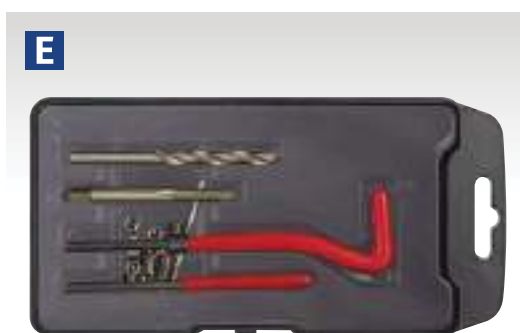
Capacity: 8-19mm
Drive: 1/2" Sq



B 3pc Thread Restoring File Set
Model No. AK313

Suitable for the restoration of external threads. 215mm Double end files each supplied with reversible vinyl grip.

Contents: SAE/UN; File #1 - 12, 13, 14, 16, 18, 20, 24, 28tpi, BSP/PF; File #2 - 11, 12, 14, 16, 19, 20, 22, 28tpi, Metric; File #3 - 0.75, 1, 1.25, 1.5, 1.75, 2, 2.5, 3mm Pitch



E Thread Repair Kits
Model No. SEE BELOW

Creates a stronger internal thread in soft metals. Ideal for repairing damaged or stripped internal threads. Protects tapped threads against wear and damage. Set includes drill bit, thread tap, insert installation and lug breaking tool. Each size supplied with three different lengths of thread insert.

Model No: TRM5
Thread Size: M5 x 0.8mm
Thread Lengths: 3.5, 5, 7mm (5 of each)
Replacement Thread Inserts: TRM5R

Model No: TRM6
Thread Size: M6 x 1mm
Thread Lengths: 4, 6, 9mm (5 of each)
Replacement Thread Inserts: TRM6R

Model No: TRM8
Thread Size: M8 x 1.25mm
Thread Lengths: 6, 9, 12mm (5 of each)
Replacement Thread Inserts: TRM8R

Model No: TRM9
Thread Size: M9 x 1.25mm
Thread Lengths: 7, 14mm (3 of each), 11mm (x4)
Replacement Thread Inserts: TRM9R

Model No: TRM10
Thread Size: M10 x 1.5mm
Thread Lengths: 7.5, 15mm (3 of each), 11mm (x4)
Replacement Thread Inserts: TRM10R

Model No: TRM12
Thread Size: M12 x 1.75mm
Thread Lengths: 9, 18mm (2 of each), 14mm (x4)
Replacement Thread Inserts: TRM12R

Model No: TRM14
Thread Size: M14 x 1.25mm
Thread Lengths: 10, 21mm (1 of each), 16mm (x3)
Replacement Thread Inserts: TRM14R



C 42pc Re-Threading Master Kit - Metric/UNF/UNC
Model No. AK311

Taps and dies are suitable for chasing out damaged threads and the removal of nicks and burrs without undercutting good threads. Thread file restores damaged external threads on any diameter, right or left-hand.

Contents: Taps; Metric - 6 x 1, 8 x 1.25, 10 x 1.25, 10 x 1.5, 12 x 1.25, 12 x 1.5, 12 x 1.75mm, National Fine - 1/4" x 28, 5/16" x 24, 3/8" x 24, 7/16" x 20, 1/2" x 20, 9/16" x 18tpi, National Coarse - 1/4" x 20, 5/16" x 18, 3/8" x 16, 7/16" x 14, 1/2" x 13, 9/16" x 12tpi, Dies; Metric - 6 x 1, 8 x 1.25, 10 x 1.25, 10 x 1.5, 12 x 1.25, 12 x 1.5, 12 x 1.75mm, National Fine - 1/4" x 28, 5/16" x 24, 3/8" x 24, 7/16" x 20, 1/2" x 20, 9/16" x 18, 5/8" x 18tpi, National Coarse - 1/4" x 20, 5/16" x 18, 3/8" x 16, 7/16" x 14, 1/2" x 13, 9/16" x 12, 5/8" x 11tpi, Thread Restorer File #1; National - 11, 12, 13, 14, 16, 18, 20, 24, Thread Restorer File #2; 9, 10, 12, 16, 20, 27, 28, 32tpi



F Thread Inserts
Model No. SEE BELOW

Replacement thread inserts for Thread Repair Kits.

Model No: TRM5R
Thread Size: M5 x 0.8mm
Thread Lengths: 3.5, 5, 7mm (5 of each)

Model No: TRM6R
Thread Size: M6 x 1mm
Thread Lengths: 4, 6, 9mm (5 of each)

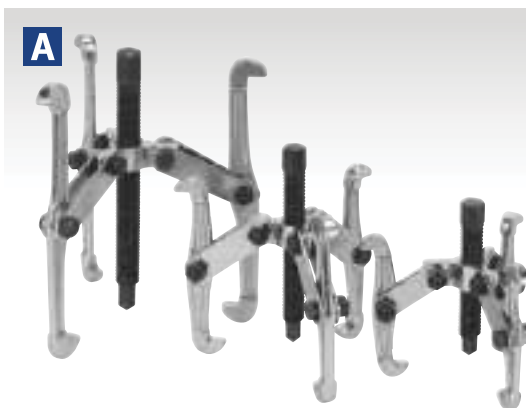
Model No: TRM8R
Thread Size: M8 x 1.25mm
Thread Lengths: 6, 9, 12mm (5 of each)

Model No: TRM9R
Thread Size: M9 x 1.25mm
Thread Lengths: 7, 14mm (3 of each), 11mm (x4)

Model No: TRM10R
Thread Size: M10 x 1.5mm
Thread Lengths: 7.5, 15mm (3 of each), 11mm (x4)

Model No: TRM12R
Thread Size: M12 x 1.75mm
Thread Lengths: 9, 18mm (2 of each), 14mm (x4)

Model No: TRM14R
Thread Size: M14 x 1.25mm
Thread Lengths: 10, 21mm (1 of each), 16mm (x3)



A 3pc Triple Leg Gear Reversible Puller Set
Model No. VS77

Drop-forged carbon steel reversible legs and body. Heat treated and chrome plated to resist corrosion. Hex head forcing screws suitable for use with a ratchet or spanner.

Size/Spread:	Reach:
65mm	75mm
115mm	100mm
175mm	150mm



B 3pc Triple Leg Gear Reversible Puller Set
Model No. VS78

Drop-forged high carbon steel reversible legs and body. Heat treated and zinc plated to resist corrosion. Swivel thrust plates on larger sizes prevent damage to shaft ends. Hex head forcing screws suitable for use with a ratchet or spanner.

Size/Spread:	Reach:
65mm	75mm
115mm	100mm
175mm	150mm



C 4pc Triple Leg Gear Reversible Puller Set
Model No. VS95

Drop-forged carbon steel reversible legs and body. Heat treated and chrome plated to resist corrosion. Hex head forcing screws suitable for use with a ratchet or spanner.

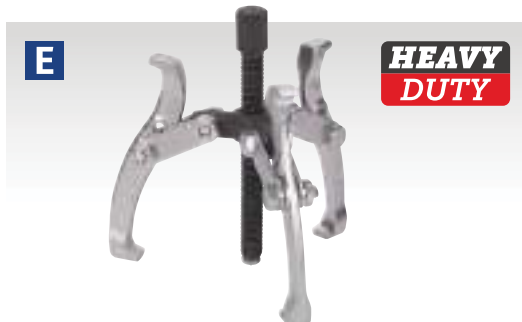
Size/Spread:	Reach:
65mm	75mm
115mm	100mm
175mm	150mm
200mm	200mm



D 4pc Triple Leg Gear Reversible Puller Set
Model No. VS79

Drop-forged high carbon steel reversible legs and body. Heat treated and zinc plated to resist corrosion. Swivel thrust plates on larger sizes prevent damage to shaft ends. Hex head forcing screws suitable for use with a ratchet or spanner.

Size/Spread:	Reach:
65mm	75mm
115mm	100mm
175mm	150mm
220mm	200mm



E Triple Leg Reversible Pullers
Model No. SEE BELOW

Triple leg pullers with reversible, drop-forged Chrome Vanadium steel legs. Heat treated for added strength and chrome plated to resist corrosion. Swivel thrust plate (all models except SGP33) prevents damage to shaft ends.

Model No:	Size/Spread:	Reach:
SGP33	65mm	75mm
SGP34	115mm	100mm
SGP36	175mm	150mm
SGP38	220mm	200mm



F 3pc Triple Leg Gear Reversible Puller Set
Model No. AK78

Drop-forged Chrome Vanadium steel reversible legs. Swivel thrust plates on larger sizes prevent damage to shaft ends. Hex head forcing screws suitable for use with a ratchet or spanner.

Size/Spread:	Reach:
65mm	75mm
115mm	100mm
175mm	150mm



G 4pc Triple Leg Gear Reversible Puller Set
Model No. AK79

Drop-forged Chrome Vanadium steel reversible legs. Swivel thrust plates on larger sizes prevent damage to shaft ends. Hex head forcing screws suitable for use with a ratchet or spanner.

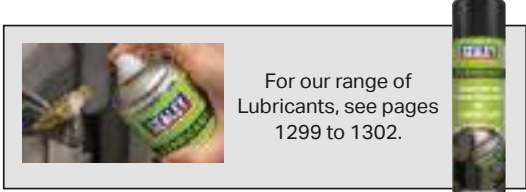
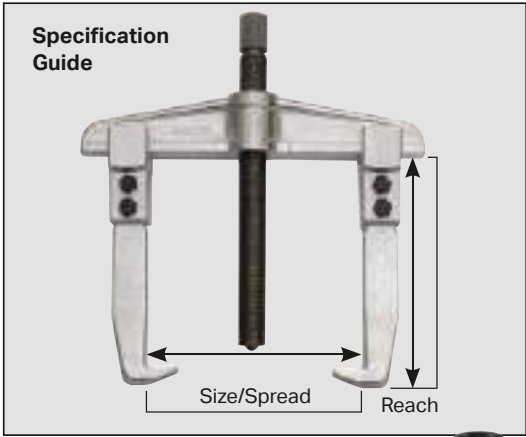
Size/Spread:	Reach:
65mm	75mm
115mm	100mm
175mm	150mm
220mm	200mm



H Twin Leg Reversible Puller Bars
Model No. SEE BELOW

Heavy-duty twin leg bar type pullers, suitable for easy removal of pulleys, flywheels, bearings and gears. Drop-forged Chrome Vanadium steel. Heat treated for added strength. Chrome plated for corrosion resistance. Thrust bearing prevents wear and damage to shaft.

Model No:	Size/Spread:	Reach:
AK46080	80mm	100mm
AK46120	120mm	100mm
AK46150	150mm	150mm
AK46200	200mm	150mm



C Twin/Triple Leg Pullers - Quick Release
Model No. SEE BELOW

A range of heavy-duty bar type pullers, suitable for easy removal of pulleys, bearings and gears. High quality Chrome Molybdenum steel with sand blasted chrome finish. Features quick release levers on each leg, allowing for quick and simple adjustment. Force screw features a pointed swivel tip to aid alignment and reduce slippage.

Model No:	Type:	Size/Spread:	Reach:
VS84	Twin	90mm	100mm
VS89	Triple	90mm	100mm
VS90	Triple	130mm	100mm
VS91	Triple	160mm	150mm
VS92	Triple	200mm	150mm



A 8pc Fast Action Twin/Triple Leg Reversible Puller Set
Model No. VS83

Drop-forged Chrome Molybdenum steel reversible legs and body. Suitable for pulling hubs, flanges, gears and bearings. Features ratcheting mechanism to locate and hold the legs in the correct position, making the tool faster and easier to operate than conventional pullers. Supplied in storage case.

Size:	150, 220mm
Reach:	100, 170mm



D Fast Action Twin/Triple Leg Reversible Pullers
Model No. SEE BELOW

Drop-forged Chrome Molybdenum steel reversible legs and body. Suitable for pulling hubs, flanges, gears and bearings. Features ratcheting mechanism to locate and hold the legs in the correct position, making the tools faster and easier to operate than conventional pullers.

Model No:	Size/Spread:	Reach:
VS81	150mm	100mm
VS82	220mm	170mm



B Hydraulic Bearing Separator/Puller
Model No. PS9821

Forged steel 3-way bearing separator and gear puller set. Operated with supplied 10tonne hydraulic ram or manual force screw. Features a selection of extension rods depending on reach required.

Puller Leg Reach:	160mm
Puller Leg Size/Spread:	190mm
Separator Capacity:	30-84mm
Extension Rods:	15, 65, 185, 340mm (3 of each)
Manual Thrust Screw Length:	210mm
Hydraulic Ram:	10tonne



E 12pc Mechanical Bearing Separator/Puller Set
Model No. PS984

Mechanical puller set with Ø25-50mm and Ø45-75mm separators and single yoke with 170mm thrust bolt. Suitable for engineering, automotive, marine and agricultural applications. Supplied in storage case.

Contents:	Separators; Ø25-50mm, Ø45-75mm, 170mm Thrust Bolt, Extension Bars; 61mm (x2), 82mm (x2), 90mm (x2), 104mm (x2), 160mm Cross Beam
Separator Size:	Maximum Reach:
Ø45-75mm	220mm
Ø25-50mm	170mm



A 5tonne Triple Leg Hydraulic Puller Model No. **HP5**

Heavy-duty triple leg 5tonne hydraulic puller. Suitable for pulling hubs, flanges, gears and bearings. Supplied with three 2-position puller legs and storage case.

Contents: 230mm Leg (x3), Triple Head, 5tonne Ram & Handle, 80mm Leg Connector (x6), Nut & Bolt (x6)



B 10tonne Triple Leg Hydraulic Puller Model No. **HP10**

Heavy-duty triple leg 10tonne hydraulic puller. Suitable for pulling hubs, flanges, gears and bearings. Supplied with three 2-position puller legs and storage case.

Contents: 325mm Leg (x3), Triple Head, 10tonne Ram & Handle, 115mm Leg Connector (x6), Nut & Bolt (x6)



HP5 and HP10 are supplied in sturdy storage case.



C Hydraulic Hub Puller Set Model No. **PS993**

Puller yoke with 10tonne hydraulic ram. Suitable for four and five stud hubs. Hydraulic ram provides additional power to extract the most stubborn hubs.

Maximum Vehicle Stud Size:	15mm
Minimum/Maximum Stud Spread:	85/128mm
Maximum Centre Bore:	Ø60mm



D Bearing & Gear Puller Set
Model No. **PS900**

Twin/triple leg puller set with reversible legs allowing internal and external pulling operations. Supplied with two and three leg yokes. Thrust bearing prevents wear and damage to shaft. Hex head forcing screws suitable for use with a ratchet or spanner.

Size/Spread (2 & 3-Leg):	35-130mm
Reach:	100, 209, 259mm
Claw Depth:	8mm
Claw Thickness:	3mm



F Bearing Separators
Model No. **SEE BELOW**

Forged steel jaws. Suitable for removing bearings, gears and bushes from shafts.

Model No:	Capacity:
PS986	Ø30-50mm
PS987	Ø50-75mm
PS988	Ø75-105mm
PS989	Ø105-150mm



G Universal Bearing Packer
Model No. **VS7022**

Suitable for packing bearings with an even spread of grease. Clean, quick operation simply place bearing on to the bottom cone, screw down the cone lid and pump grease into nipple. Works on most tapered roller bearings fitted on cars, boats, trailers, etc. Both cones feature knurled grips for use with oily fingers. Suitable for use with Sealey and other best selling grease guns.

Maximum Cone Diameter:	Ø104mm
Shaft (Height x Diameter):	60 x Ø11mm



H 1kg Slide Hammer Locking Pliers Model No. **VS410**

Manufactured from Chrome Vanadium steel. Suitable for a wide variety of applications.

Jaw Capacity:	40mm
Length:	Pliers Only; 255mm, with Slide Hammer; 600mm



10tonne

Hydraulic

A 19pc Hydraulic Puller Set Model No. PS981

Forged steel 2-way yoke allows twin or triple leg pulls. 10tonne Hydraulic power unit with tommy bar. Suitable for pulling hubs, flanges, gears and bearings. Three 3-position puller arms and three sets of extension plates. Hydraulic ram interchangeable with others in series.

Puller Type: 2-Legged

Size:	Spread:	Reach:
100mm	50-100mm	0-100mm
150mm	75-150mm	0-150mm
200mm	100-200mm	0-200mm
250mm	150-250mm	0-250mm

Puller Type: 3-Legged

Size:	Spread:	Reach:
100mm	50-100mm	0-100mm
150mm	75-150mm	0-150mm
200mm	100-200mm	0-200mm
250mm	150-250mm	0-250mm



C

10tonne

Hydraulic

C 10tonne Hydraulic Ram Model No. PS990

Hydraulic ram piston fits all Sealey hydraulic puller sets and is also suitable for use with other popular makes of hydraulic gear pullers. Screw mechanism converts power to 10tonne ram head with enough force to remove most stubborn bearings, pulleys and shafts.

Compatible with: PS980, PS981, PS982, PS985, VSE127H



D

E

PS980 and PS985 are supplied in strong, steel cases.



B

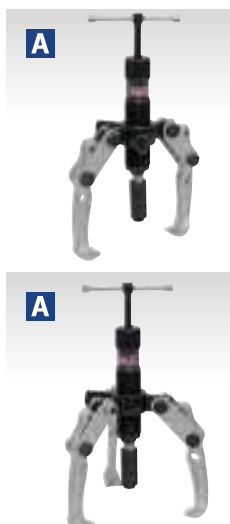
10tonne

Hydraulic

B 25pc Hydraulic Puller Set Model No. PS982

Master set of gear pullers and bearing separators. Forged steel bearing separator. 10tonne Hydraulic ram compatible with other sets in the range.

Contents: 10tonne Hydraulic Ram, 100mm Leg (x3), 150mm Leg (x3), 200mm Leg (x3), Twin Head, Triple Head, Extension Rod; 25 x 50mm (x1), 25 x 100mm (x1), Main Rod; 200mm (x4), Beam, 75-105mm Separator, 5/8" Bolt, Ram Service Kit, Ram Nut



A

A



D

10tonne

Hydraulic

E

10tonne

Hydraulic

D 8pc Hydraulic Bearing Separator/Puller Set Model No. PS980

Cast puller yoke with forged separator. 10tonne Hydraulic ram interchangeable with other units in the series. Supplied with Ø75-105mm bearing separator. Maximum puller depth 420mm. Supplied in steel case.

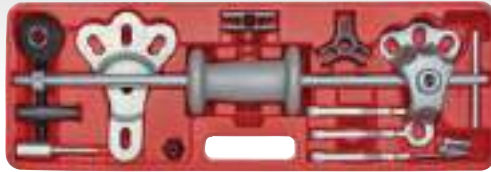
Contents: 10tonne Hydraulic Ram, Ø75-105mm Separator, 5/8" Bolt, 200mm Extension Rod (x4), Cross Beam

E 10pc Hydraulic Bearing Separator/Puller Set Model No. PS985

Cast puller yoke with forged separator. Supplied with 10tonne hydraulic ram. Suitable for pulling commercial vehicle size bearings from Ø120-150mm. Hydraulic ram interchangeable with other sets in the range. Maximum puller depth 420mm. Supplied in steel case.

Contents: 10tonne Hydraulic Ram, Ø120-150mm Separator, Plug, 250mm Extension Rod (x4), Cross Beam

A



A 10pc Slide Hammer/Puller Set
Model No. PS983

2.3kg Slide hammer with 580mm shaft. Use eight ways: external three leg puller, internal three leg puller, external two leg puller, internal two leg puller, grip wrench adaptor, lip puller, hub puller, dent puller.

Twin Leg:

Internal Capacity:	Ø35-110mm	Reach:	83mm
External Capacity:	Ø50-140mm	Reach:	83mm

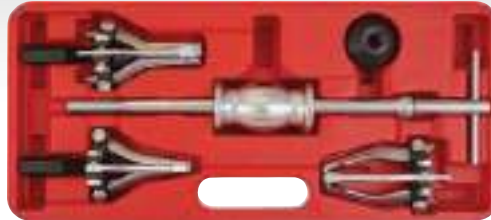
Triple Leg:

Internal Capacity:	Ø50-135mm	Reach:	83mm
External Capacity:	Ø20-135mm	Reach:	83mm

D



B



B 5pc Slide Hammer Gear/Bearing Puller Set
Model No. PS992

Drop-forged Chrome Vanadium steel puller arms with locking/gripping feature. Set includes three sets of 100mm triple leg pullers with locking features which clamp the jaws firmly inside/outside the gear or bearing. Includes 1.2kg slide hammer.

Internal Pullers:	Capacity:
100mm Triple Leg:	Ø15-40mm, Ø29-100mm
External Puller:	Capacity:
100mm Triple Leg:	Ø20-130mm

D 49pc Harmonic Balancer Puller Set
Model No. PS979

Multipurpose puller set for extracting flywheels and pulleys.

Contents: Yoke, 130mm Thrust Bolt, Centring Adaptors; Small, Large, Flat, Bolts; 1/4" x 28 x 2-12" (x2), 5/16" x 18 x 3-1/2" (x2), 5/16" x 18 x 5-1/2" (x2), 3/8" x 16 x 2" (x3), 3/8" x 16 x 3" (x2), 3/8" x 16 x 4-1/2" (x5), 3/8" x 24 x 1-1/2" (x3), M8 x 1.25 x 45mm (x3), M8 x 1.25 x 65mm (x2), M8 x 1.25 x 90mm (x3), M10 x 1.5 x 35mm (x3), Washers; 8mm ID (x6), 10mm ID (x4), 12mm ID (x4)

Minimum/Maximum Size/Spread: 40/93mm

G



G 5pc Blind Bearing Puller Set
Model No. AK714

Fully chromed carbon steel medium stroke slide hammer. 370mm Overall length with 0.85kg hammer. Bearing extractor collets with internal capacity from 11-32mm.

Collet Diameter: Ø11-16mm (3/8 - 1/2"), 15-19mm (9/16 - 11/16"), 18-25mm (5/8 - 1"), 26-32mm (1 - 1-1/4")

C



C 12pc Blind Bearing Puller Set
Model No. AK716

Medium stroke 1.5kg slide hammer with 395mm shaft and a screw type bridge extractor. Gently removes blind bearings where the use of a slide hammer may damage the surrounding material. Includes bearing extractor collets with internal capacity from 8-34mm.

Collet Diameter: Ø8-9.4, 9.5-11.4, 11.5-13.4, 13.5-16.4, 16.5-18.4, 18.5-24, 24.5-29.5, 30-32.5, 32-34mm

E

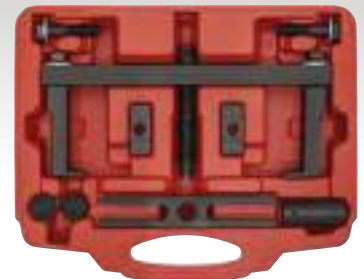


E 10pc Blind Bearing Removal Tool Kit
Model No. AK999

Suitable for removal of a variety of blind bearings where traditional bearing and gear pullers will not reach. Ball-end tips fit inside bearing races to provide traction for bearing extraction. Chrome Vanadium steel components. Ideal for a wide variety of bearing sizes.

Applications: 6004-6010, 6201-6206, 6300-6302

H



H 12pc Crankshaft Pulley Removal Tool Set
Model No. PS997

Enables fast and simple removal of crankshaft and auxiliary pulleys - even in a confined space. Chrome Molybdenum legs with thin jaws allow removal of pulleys with narrow tolerance between pulley and block.

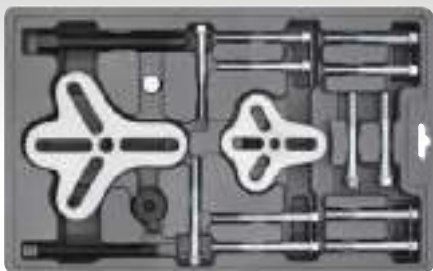
Depth Range:	68-88mm
Diameter Range:	Ø40-120mm, 132-195mm

I 9pc Mini Bearing Separator Set
Model No. PS996

Compact set containing bearing separator, yoke and extensions. Chrome Vanadium components ensure long tool life. Also suitable for removing small gears, wheels and fittings from shafts.

Contents: Ø15-58mm Separator, 50mm Jaw (x2), Thrust Screw, 45mm Extension Rod (x2), 34mm Extension (x2), Cross Beam

F



F 18pc Combined Puller Set
Model No. PS977

Steering wheel yoke manufactured from drop-forged carbon steel. Suitable as two or 3-way puller for removal of pulleys and flywheels from small engines. The larger ductile steel yoke is suitable for pulling harmonic balancers, timing gears and various other components.

Contents: Yoke, Thrust Bolt, Screw 5/16" x 24 x 3" (x2), Screw 3/8" x 16NC x 3" (x2), Screw 5/16" x 18NC x 3-1/2" (x2), Harmonic Balancer Application; Yoke, Thrust Bolt, Adaptor, Screw 3/8" x 24 x 3" (x3), Screw 3/8" x 16 x 3" (x3)
Minimum/Maximum Spread: 32/65, 38/117mm

I

