

CO2 MACHINE MANUAL

For Outdoor Use



Please read and follow all safety instructions and warnings.

Note: Some or all of the following required safety instructions for propane/LPG powered devices may apply to your trap.
Allow trap to cool for 5 minutes before re-starting.

Warning: Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage.
Read the installation, operating and maintenance instructions thoroughly before installing or servicing the trap.

Caution: The gas pressure regulator provided with this appliance must be used. This regulator is set for an outlet pressure of 11.0 in. Water Column. The minimum inlet gas supply pressure is 11.0 in. Water Column from regulator.

- This unit is not intended to be installed in or on recreational vehicles and/or boats.
- The gas supply must be turned off at the LP-Gas supply cylinder when this appliance is not in use.
- The installation must conform with local codes or, in the absence of local codes, with the National Fuel Gas Code.
- To test for a gas leak, place soapy water around the connector, regulator, and gas hose assembly. If bubbles appear, there is a gas leak.
- Inspect the hose before each use of the unit. If it is evident there is excessive abrasion or wear, or the hose is cut, it must be replaced prior to the unit being put into operation. The replacement hose shall be that specified by the manufacturer.
- The trap is equipped with an internal spark ignition device. Failure to follow starting procedure will result in the trap not starting.
- Installation and repair should be done by a qualified service person. The heater should be inspected before use and at least annually by a qualified service person. More frequent cleaning may be required as necessary. It is imperative that the control compartment, burners, and circulating air passageways of the trap be kept clean.

- Maintain adequate clearances of 20"-24" around air openings into the combustion chamber, clearances from combustible material, provisions for accessibility and for combustion and ventilating air supply. Keep the trap area clear and free from combustible materials, gasoline, and other flammable vapors and liquids. The appliance is not to be used in locations where flammable vapor or explosive dust is likely to exist.
- Do not obstruct the flow of combustion and ventilation air.
- Keep the ventilating openings of the cylinder enclosure free and clear from debris.
- Clean the trap with a damp cloth, if necessary.
- A maximum of a 30 lb LP-Gas cylinder shall be used.
- The LP-Gas cylinder must be provided with a shut-off valve.
- The LP-Gas cylinder supply system must be arranged for vapor withdrawal and the cylinder must include a collar to protect the cylinder valve.
- The LP-Gas cylinder used shall be constructed and marked in accordance with the specifications for LPG - cylinders.
- The trap shall be used outdoors only in a well ventilated space and shall not be used in a building, garage, or any other enclosed area.
- The LP-Gas cylinder must be disconnected and removed from the appliance, if the appliance is stored indoors.
- LP-Gas cylinders must be stored outdoors in a well-ventilated area out of reach of children.
- Disconnected cylinders must have threaded valve plugs tightly installed and must not be stored in a building, garage, or any other enclosed area.

- The pressure regulator and hose assembly supplied with this appliance must be used for connection to the LP-Gas cylinder. Replacement pressure regulators and hose assemblies must be specified by the manufacturer.
- Avoid improper use of extension cords. Keep connections away from moisture and avoid damage to the cord.
- If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid hazard.

DETAILS

<p>Unit won't start RED LED light flashing</p>	<ol style="list-style-type: none"> 1. Propane tank may be empty. 2.If propane tank is new and has been newly filled it must be purged. 3.There could be a loose connection. 4.Bug bag may be full or clogged. 5. Battery voltage low. 	<ol style="list-style-type: none"> 1. Weigh tank and check against “empty” weight. Written on tank. 2. Bring tank to filling location. Air may be in fuel line. Ask for tank to be purged. Hint: If you have another propane/LPG powered device operating on a standard, 20 lb/30 lb tank, try hooking that tank up to the trap to verify that the issue is with your tank. 3. Verify all connections. Make sure tank valve is fully open. 4. Replace the bug bag. 5. Ensure the battery installed properly. Replace with full-charged battery if neccessary.
<p>Unit won't stay running</p>	<ol style="list-style-type: none"> 1. 'Possible Causes' 1 & 3 above may apply. 2. Regulator is not fully engaged. 	<ol style="list-style-type: none"> 1. Go through above steps 1 & 3. 2. See Tank Changing Tips on page 18.
<p>Low or No Catch</p>	<ol style="list-style-type: none"> 1.Insects may not be out yet. 2.Trap placement issue. 3.Biting insect reproductive cycles have not yet been broken. 4.Counterflow may be disrupted. 	<ol style="list-style-type: none"> 1. Verify temperature is consistently over 50°F (10°C). 2. Follow steps in the “Trap Placement” section of your owner’s manual. 3. Keep trap in constant operation 24 hours/day, 7 days per week for at least 4 weeks to reduce the mosquito population. 4. Air flow may be restricted. Contact your Local Service Provider.
<p>Orange LED Flashing</p>	<ol style="list-style-type: none"> 1. Problem with propane or LPG. 	<ol style="list-style-type: none"> 1. Turn off trap and allow to cool for 1/2 hour. 2. Chang a new tank of propane / LPG. 3. Then restart.
<p>LED Flashing alt RED/GREEN</p>	<ol style="list-style-type: none"> 1. Problem with TEG (Thermal Electric Generator) 	<ol style="list-style-type: none"> 1. Contact your Local Service Provider.
<p>LED light solid RED</p>	<ol style="list-style-type: none"> 1. Hight temperature. 2. Problem with NTC. 	<ol style="list-style-type: none"> 1. Shut down the trap, cool for 30minutes, then restart. 2. Contact your Local Service Provider.
<p>LED Flashing alt Orange/GREEN</p>	<ol style="list-style-type: none"> 1. Burner assembly aged. 2. Low Combustion value. 	<ol style="list-style-type: none"> 1. Contact your Local Service Provider.

Welcome

Congratulations on your purchase of Co2 Machine. Now you can begin to enjoy your outdoor living space again.

Backed by 18 years of research and independent testing, Co2 Machine is scientifically proven to effectively reduce mosquitoes & other biting insects from your yard.

Co2 Machine is easy to use. In this manual, you'll learn everything you need to know about how it works, optimal trap placement, maintenance, storage and warranty information. The keys to success are trap placement, utilization of the correct attractant for your area and routine maintenance. For optimal catch rate, you'll need to change the LPG tank and attractant every 21 days.

If you smell gas:

1. Shut off the gas to the appliance.
2. Extinguish any open flame.
3. Open lid.
4. If odor continues, immediately call your gas supplier or your fire department.

1. Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
2. An LP cylinder not connected for use shall not be stored in the vicinity of this or any other appliance.

Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition.
Young children should be carefully supervised when they are in the area of the trap. Keep out of reach of children.

Clothing or other flammable materials should not be hung from the trap, or placed on or near the trap.

Maintenance

Maintenance

- Refill propane / LPG (10kgs Propane/LPG lasts approximately 21 days and 30kgs tanks lasts app. 30days, with 24-hour/7-days operation.)
- Replace Octenol every 21days or LureMax every 30days.
- Empty or replace bug bag when refill tank or replace attractant.
- Periodically wipe down the outside of the trap with a clean damp cloth.

Propane Tank Changing

When attaching the regulator knob to a tank after a tank change, be sure to fully tighten the regulator knob onto the tank. No need to use tools, but do turn the knob as far as possible by hand. When this is done, loosen the knob 1/4 turn, then re-tighten to maximize seal.

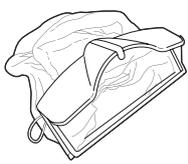
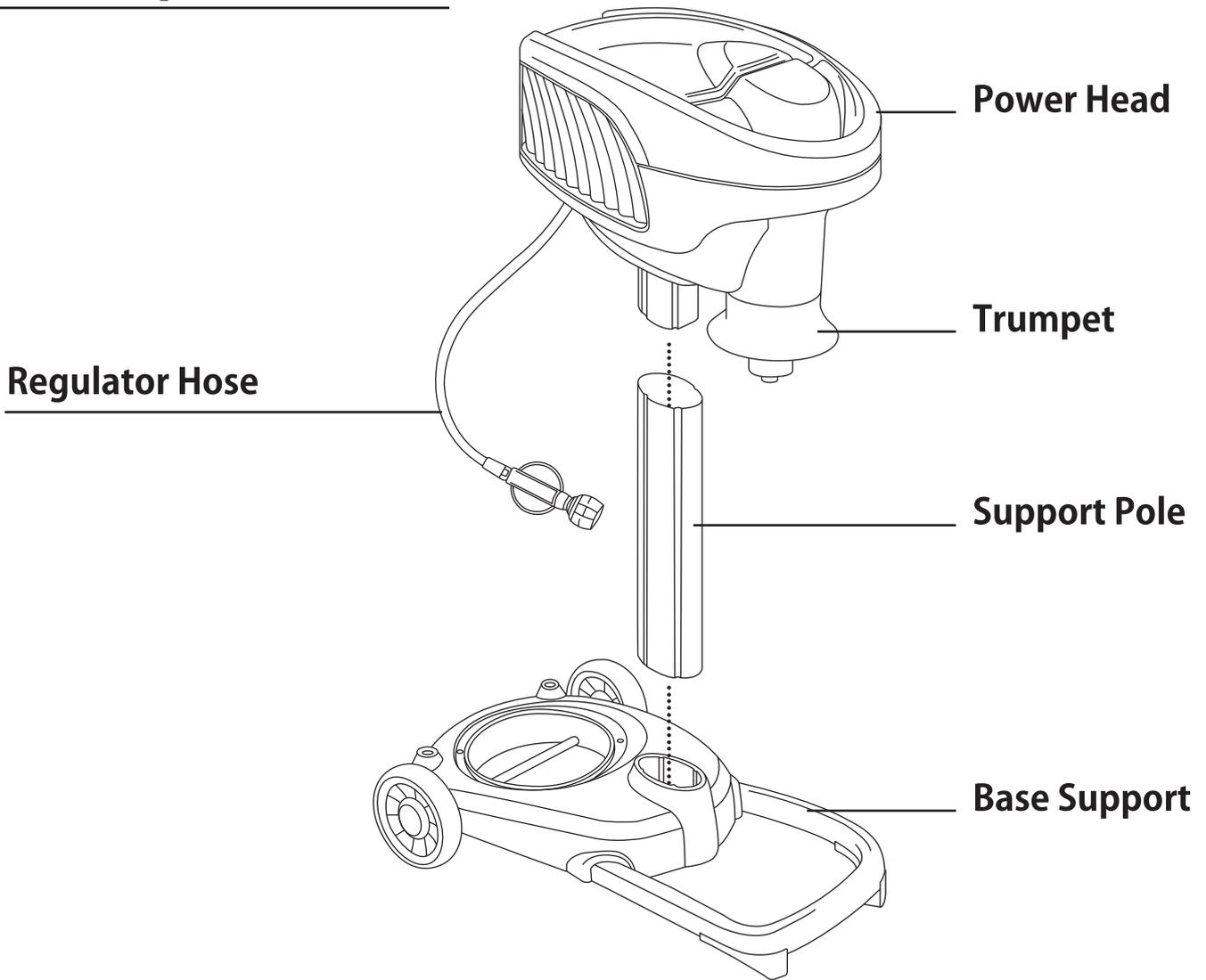
The purpose for this is to fully engage the regulator onto the tank.

If the regulator is not fully engaged, the flow of gas may be restricted and failed to stay running.

If this occurs, press the off button, close the tank valve, and remove the regulator from the tank.

Re-attach the regulator and try again.

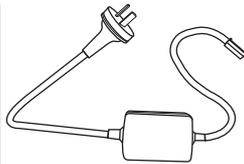
Principal Parts



Bug Bag



Battery



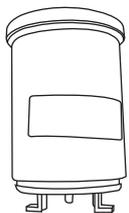
Charger



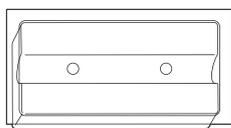
CO₂ cartridge



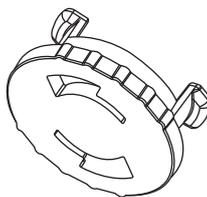
CO₂ cartridge adapter



LureMax



Octenol



Attractant cap

Instructions

****READ MANUAL BEFORE STARTING****

Starting Instructions

It is recommended that you read the entire manual before starting the Co2 Machine.

1. Insert Octenol or LureMax cartridge in compartment per instructions in cartridge packaging.
2. Install Battery into the rear compartment..
3. Connect regulator to propane/LPG tank.
4. Slowly turn propane/LPG tank valve on.
5. Push "ON/OFF" switch to ON position. LED light will turn solid orange indicating warm-up. After 8-11 minutes, trap LED light will turn solid green indicating the trap is running at full capacity.

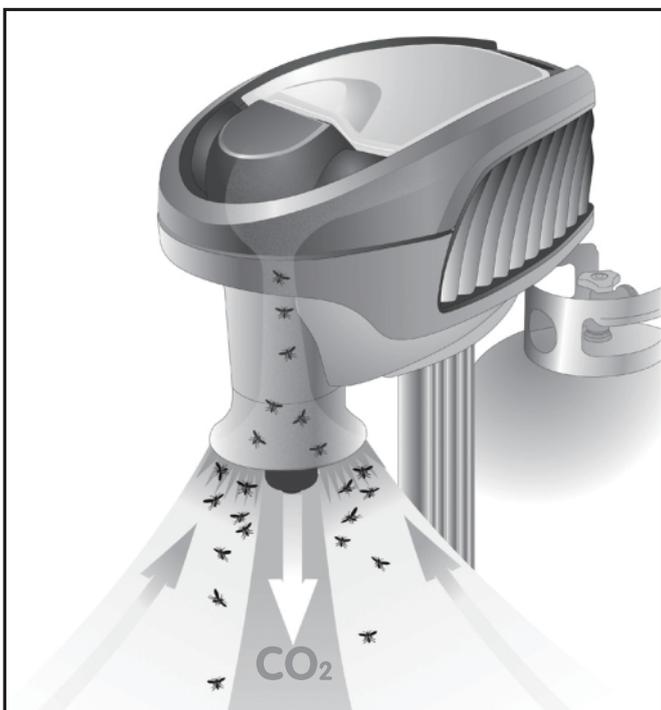
Shut Down Instructions

To turn off the trap, press the ON/OFF button. The LED will be green. After a two minute cool down, the fan will stop, the LED will turn off .

When Not In Use

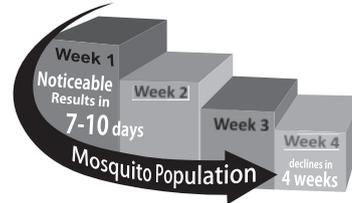
If the unit is not in use, the gas must be turned off at the supply propane/LPG tank. Storage of this unit indoors is permissible only if the propane/LPG tank is disconnected and removed. propane/LPG tank must be stored outdoors, out of reach of children and must not be stored in a building, garage or any other enclosed area.

The trap should be stored indoors in a garage or shed in the off-season. The bug bag should also be discarded prior to storing the trap. Cover trumpet to prohibit insects from nesting. Cover unit with a tarp and secure tightly at the bottom to keep out dust, spider webs and other debris.



For Best Results (unit must run for 24 hours/day)

- Your trap will begin capturing immediately with significant reduction in the mosquito population in 7-10 days. Allow 4 weeks to significantly reduce the mosquito population in your yard.



- Allow trap to cool for 5 minutes before re-start.
- Never spray insecticide in or around trap.
- Trap can be left running in the rain.
- If using lime or fertilizer compounds, be sure to shut down the trap first to prevent dust or fine mist from being drawn into trap and clogging bug bag.

Warning:

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.

Caution:

The gas pressure regulator provided with this appliance must be used. This regulator is set for an outlet pressure 11.0 in. water column. The gas supply must be turned off at the propane/LPG tank when this appliance is not in use.

Octenol Attractant Installation

1. Locate Octenol Biting Insect Attractant. Remove mosquito attractant packet from bag. Carefully peel back foil cover.
2. Locate the Octenol carrier compartment inside the plume tube. Turn cap counter-clockwise about 1/8 turn. Remove end cap.
3. Place the open packet of mosquito attractant into the carrier compartment.
4. Replace end cap on carrier compartment. Be sure to align cap's "feet" with grooves inside carrier compartment. Secure cap by turning clockwise until it clicks (about 1/8 turn).

Precautionary Statements

Hazards to Humans and Domestic Animals.

Caution: Harmful if swallowed. Avoid contact of skin, eyes or mouth with the evaporation holes.

Wash hands before eating, drinking, chewing gum, using tobacco or using bathroom facilities.

First Aid

If swallowed

- Call poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

If on skin or clothing

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

If in eyes

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

If inhaled

- Move person to fresh air.
- Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Environmental Hazards: Do not apply directly to water. Do not contaminate water when disposing of equipment washwaters or rinsate.

Directions for Use

Replace Octenol every 21 days, or LureMax every 30 days.

*Based on release rate studies conducted at a constant ambient air temperature of 25° C for 21 days. Octenol release from this product will be more rapid at higher ambient air temperature.

Step 1



Step 2



Step 3



Step 4



Storage & Disposal

Do not contaminate water, food or feed by storage or disposal.

Store unopened attractant cartridge in a cool, dry place.

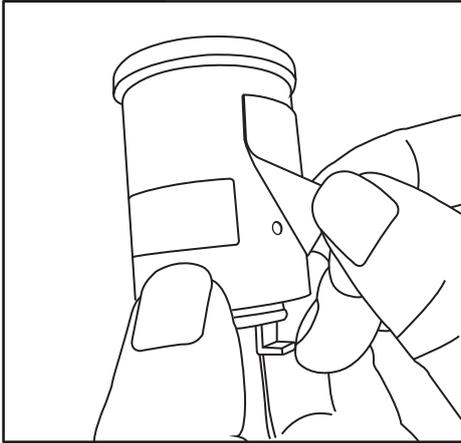
Discard outer plastic bag in trash.

Do not reuse attractant cartridge. Dispose of used attractant cartridge in the trash.

Octenol Attractant Installation

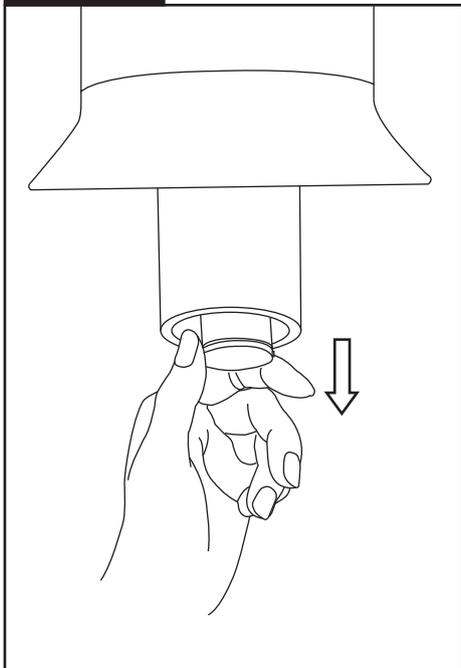
Installation

Step 1



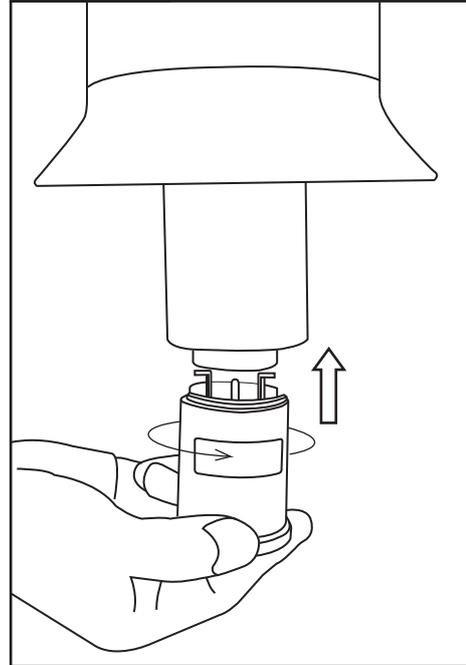
Locate LureMax Insect attractant, peel off the two transparent films on the cylinder, six holes exposed.

Step 2



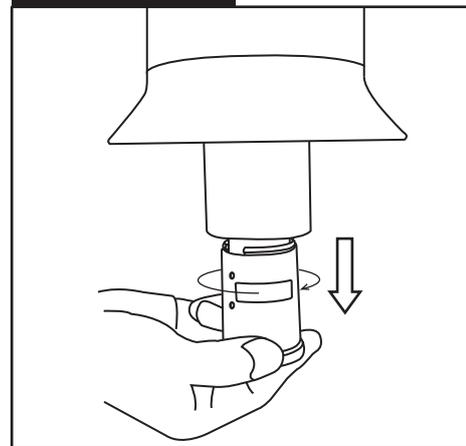
Remove end cap at the end of plume tube by turning cap counter-clockwise about 1/8 turn.

Step 3



Turn the LureMax upside down, feet facing up, place the LureMax into the carrier compartment and secure it by turning clockwise until it clicks.

Replace LureMax



When replace LureMax, reverse the operation of Step 3 to remove the old LureMax, and install new LureMax as per step 1 and step 3.

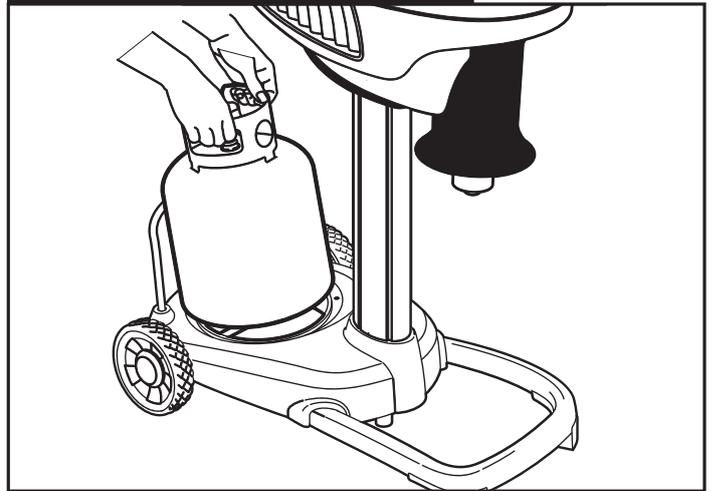
LPG Tank Installation

1. After trap is placed in its ideal location, place propane/LPG tank onto the molded cradle.
2. Make sure propane/LPG tank is fully closed. Attach propane/LPG regulator hose to propane/LPG tank. Secure tightly by hand. **Do not use tools.**
3. Turn propane/LPG on by slowly turning valve counter-clockwise. Take care not to turn too quickly to avoid engagement of safety valve.

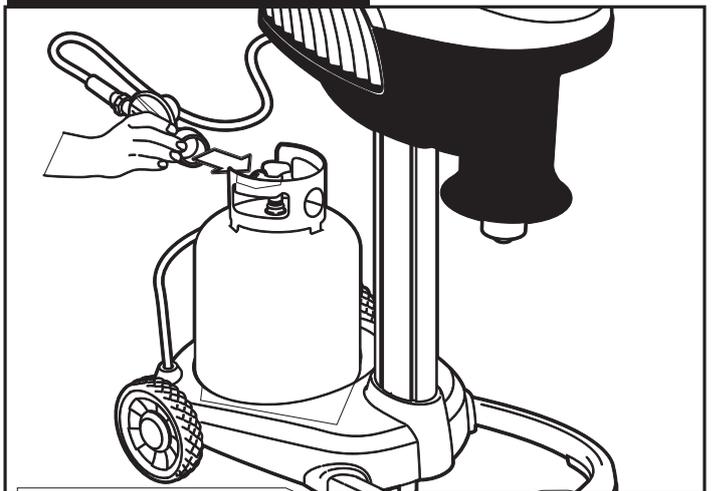
DO NOT MOVE TRAP WITH TANK ATTACHED!

TANK MUST BE DISCONNECTED FROM REGULATOR BEFORE TRAP IS RELOCATED TO AVOID DAMAGE TO REGULATOR AND/OR TRAP. BE ADVISED, DAMAGE CAUSED FROM FAILURE TO COMPLY WITH THIS INSTRUCTION IS NOT COVERED UNDER WARRANTY.

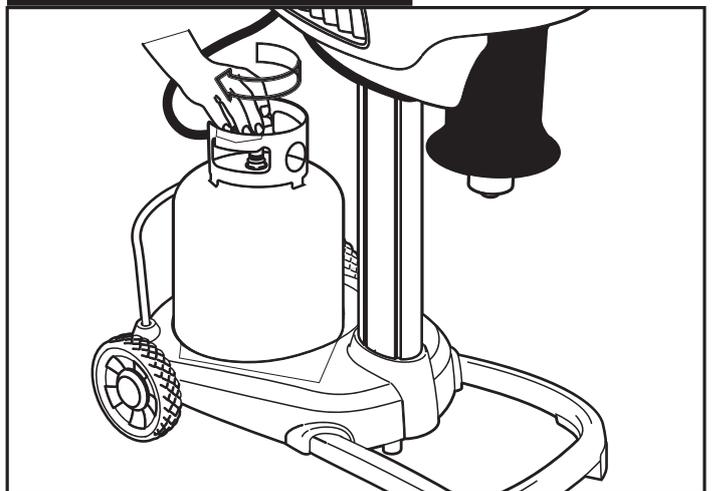
Step 1 - Propane Tank Placement



Step 2 - Attach Regulator



Step 3 - Slowly Open Valve



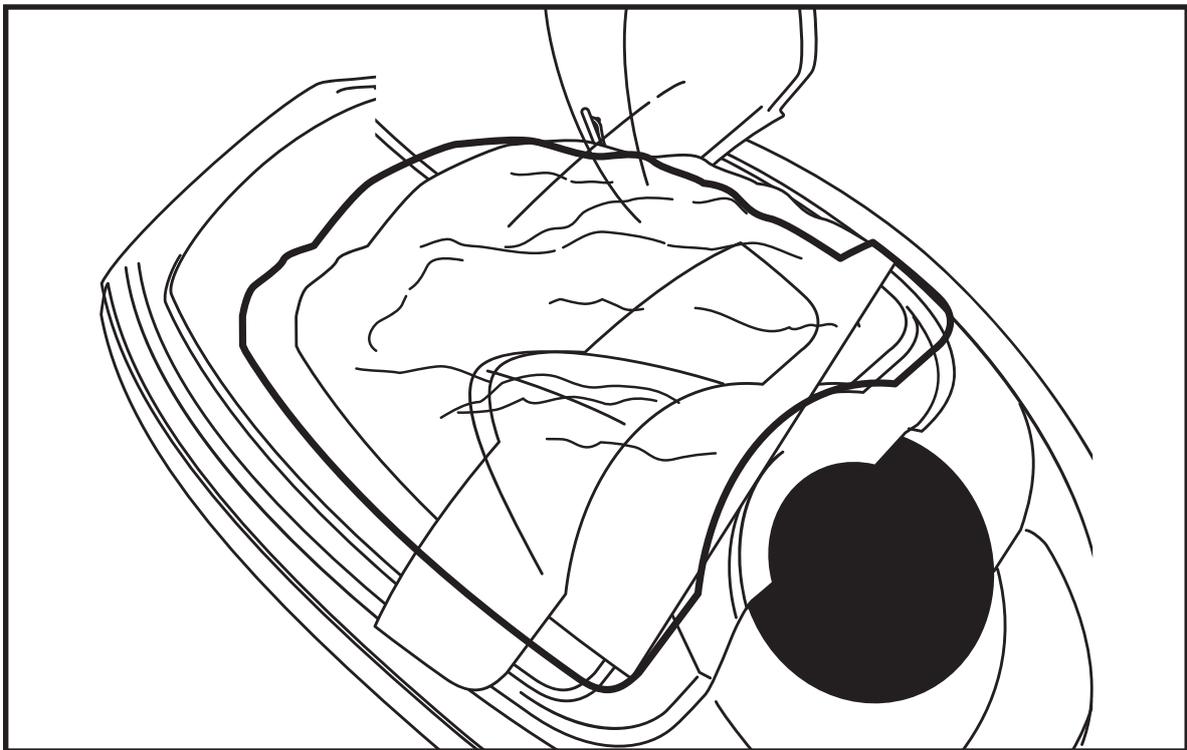
Set-Up

Bug Bag Installation:

Reach in the bug bag and fully open the drawstring entrance before installing. This will help optimize the airflow which will enhance the performance of your trap.

Lift clear plastic lid and lock plastic holding bracket of bug bag into front of compartment. Close plastic lid when finished.

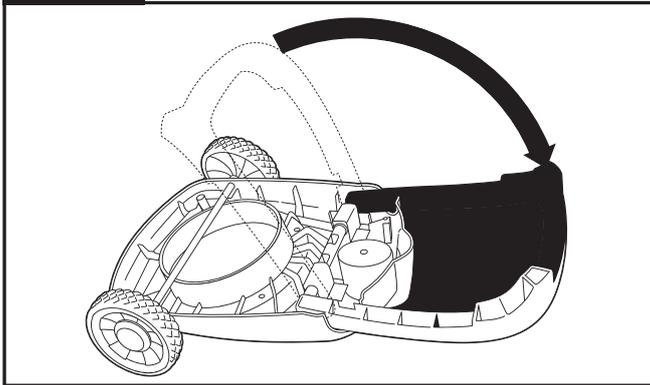
Note: Fabric loops hook over plastic posts allowing bug bag to expand to its highest capacity.



Trap Placement

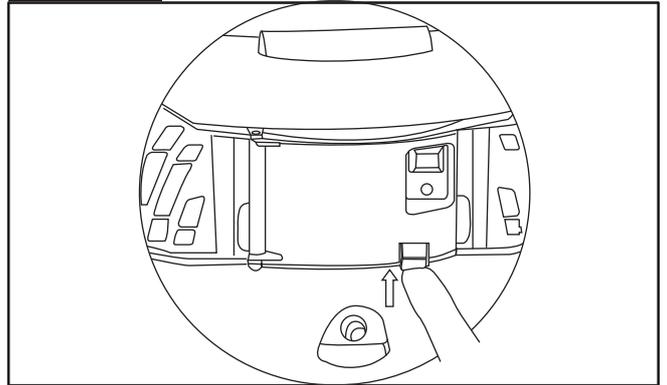
1. Determine the direction of the prevailing wind.
Check local weather patterns if you are unsure.
2. Stand in the center of the area you are trying to protect and look toward the prevailing wind.
3. Proper placement of the trap will be 30 – 40 feet in front of you, within 5-6 feet of ground cover (i.e. bushes, flowerbeds, tree line, marshbed).
Ensure that trap is not directly against any blockades such as buildings, fences, etc.
4. It is recommended that the trap be placed in the shade.
5. Do not place trap directly above a water source (sprinklers, hose, etc.).
6. Trap must be placed on level ground to avoid tipping or uneven propane distribution.

Step 1



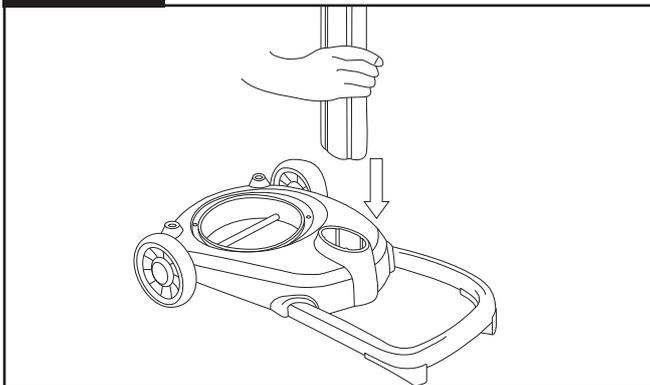
Place base upside down on a flat surface, unfold U-shaped support leg until it locks in place.

Step 4



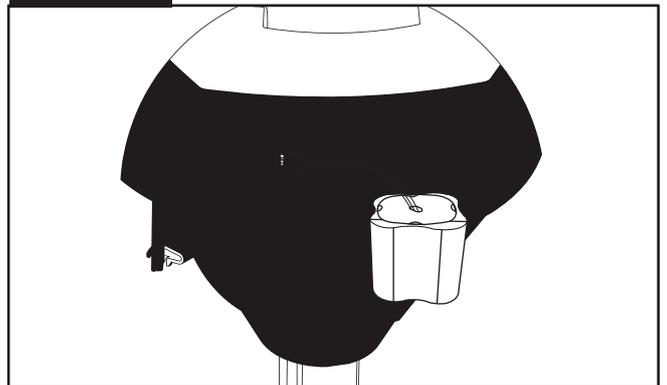
Open battery door in the rear of the trap.

Step 2



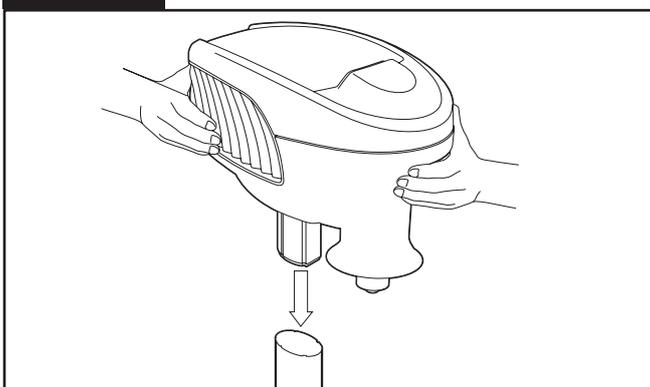
Turn base and leg assembly right-side-up and place support pole into cavity on base.

Step 5



Place the battery in the battery cage and connect properly.

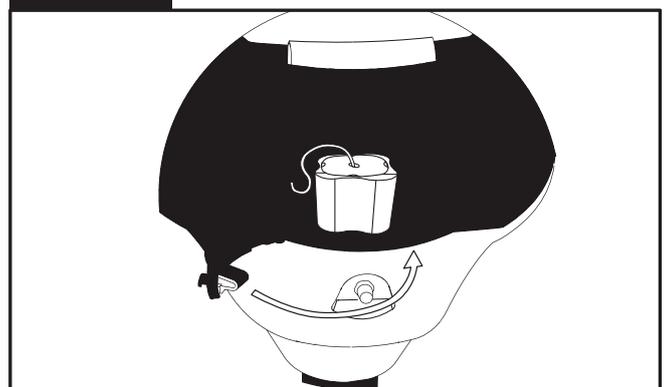
Step 3



Place trap power head onto pole. Press down firmly with two hands to secure.

Assembled trap should have the front of power head/trumpet placed farthest from the wheels in the same direction as base U-shaped legs.

Step 6



Close battery door when complete (snaps into place).