

Take Ten Before You Start

READ THE MANUAL TO KNOW THIS FOGGER

- 1 **Engine** already has oil , no need to add. __T __F
- 2 **Formulation tank** should be at least half full. __T __F
- 3 **Choke lever** must be up to start engine. __T __F
- 4 **Starting hot engine** press the primer bulb twice. __T __F
- 5 **Adjustment knob** must be set to zero before turning to get a ULV or barrier spray. __T __F
- 6 **Engine oil** full line is at the bottom of dipstick. __T __F
- 7 **ULV and barrier spray** have the same adjustment knob setting on the nozzle. __T __F
- 8 **Use a funnel** when filling formulation tank to keep liquid away from the belt between engine and blower. __T __F
- 9 **Formulation tank guard** can be used as a handle. __T __F
- 10 **Treating along fences** will keep the spray droplets on one side of the fence. __T __F

VERSA-FOGGER



INSTRUCTION MANUAL

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1F, 2T, 3T, 4F, 5T, 6F, 7F 8T, 9F, 10F



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VERSA-FOGGER SPECIFICATIONS

Formulation output max: 6 ounces / minute (180 ml / min)
Droplet size: 34 - 54 microns

Engine: 3.5 HP, 1.2 kW at 7,000 RPM

Fuel Consumption: 0.15 GPH

Engine Run Time: approximately 1 hour

Blower: 3-stage rotary, 95 CFM (2.68 CMM)

Weight: *Empty* - 28 lbs; *Full* - 36 lbs

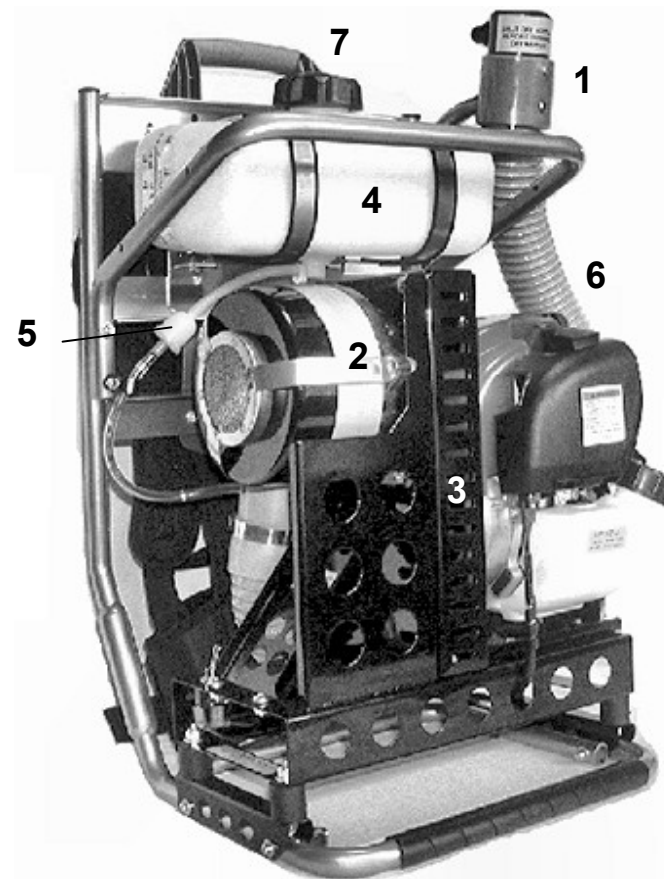
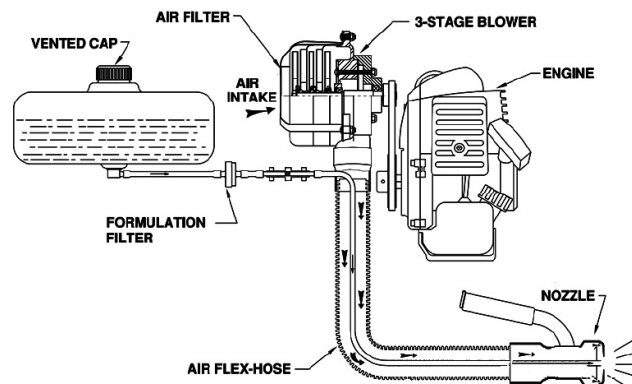
Gasoline Tank: 0.17 gallons (650 ml)

Formulation Tank: 1 gallon (3.8 liters)

DESCRIPTION

This cold fogger employs a 4-stroke gasoline engine to power a high speed blower to deliver an air stream to a nozzle at the end of a flex-hose. The nozzle is supplied with liquid insecticide from a non-pressurized tank that holds 1 gallon of insecticide formulation.

Droplet size ranges from 34 to 54 microns. The flow rate to the nozzle is adjustable. Small droplet sizes correspond to low formulation flow rates and large droplet sizes to high flow rates. The droplet throw is about 12 feet, depending on ambient wind.



1. Nozzle assembly
2. Blower assembly
3. Blower belt (not shown)
4. Formulation tank assembly
5. Formulation line filter
6. Air-Flex hose
7. Formulation tank cap

ROUTINE ENGINE MAINTENANCE

Engine Oil

Every use check the oil level and add oil to fill line.

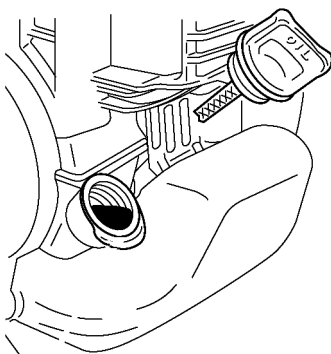
1st month or 10 hours of use - change engine oil.

Every 6 months or 50 hours of use - change oil.

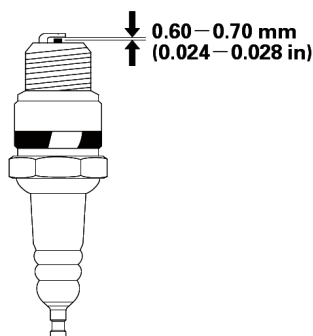
Spark Plug

Every year or 100 hours of use - clean, set the gap.

Every 2 years replace spark plug.



Engine oil full-line is the bottom edge of the fill opening. Oil capacity is about 2.7 ounces.



New spark plug - tighten 1/2 turn after the plug seats to compress new washer.

Original spark plug - tighten 1/4 turn to compress old washer.

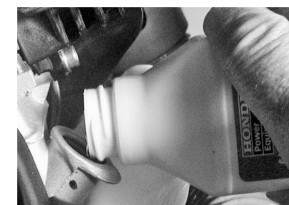
SAFETY PRECAUTIONS

- **Gasoline.** The only fuel for this fogger is 87 octane gasoline. Do not mix oil with the fuel. Do not add fuel to the fuel tank when the engine is running.
- **Insecticide formulation.** Formulations used in cold foggers must be mixed according to product label directions.
- **Carry handle.** Do not carry the fogger by the front guard of the formulation tank; use carry handle.
- **Safety equipment.** Follow insecticide label directions that require operator to use personal safety equipment.
- **Improper use.** Do not leave the fogger unattended when motor is operating, or when nozzle are operating. Follow product label directions for flow rate and treatment areas.
- **Public safety.** People, including children playing, should not be in a treatment area.

READ BEFORE STARTING

This fogger was started, run for several minutes, and produced fog at the factory before it was shipped. The engine speed has been set for optimal operation of the blower.

- Place fogger in an outdoor open area; position the nozzle away from buildings or occupied spaces.
- Turn the nozzle adjustment knob to the Off position before starting the engine.
- **Be certain that oil has been added to the engine. Some oil may be visible when the cap is removed, but the bottle of oil supplied with the fogger must be added before starting.**
- Use fresh gasoline. Fresh fuel will make the Primer Bulb work efficiently, and the motor will start easier.

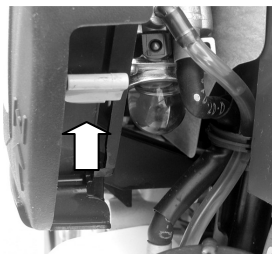


STARTING THE ENGINE

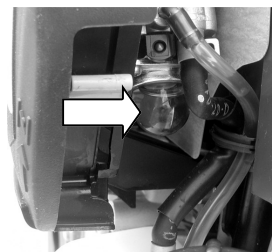
1. Motor switch turned On.



2. Move Choke Lever up.



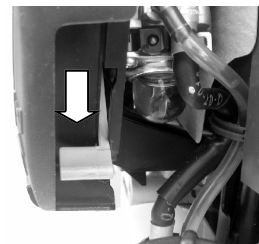
3. Press / release the Primer Bulb until gas is visible in the bulb.



4. When gas is in the Primer Bulb, press bulb 2 times to deliver gas to carburetor.



5. Pull start cord 1 or 2 times until there is resistance, then pull quickly to start engine.



6. Move the Choke Lever down when engine is running smoothly.

TROUBLE - NO FOG / SPRAY PRODUCED

- Nozzles clogged with dirt, obstructing opening.
- Formulation tank must be half full to provide pressure to the nozzle and prevent air bubbles in the line.
- Filter in formulation tank is clogged—replace it.
- Turn adjustment knob to full open, then close and reset the point to zero.

REPLACE BLOWER BELT



- Remove damaged belt from the upper and lower pulleys.
- Slip the new belt into the lower pulley and then pull over the small upper pulley.
- New belt must fit into the grooves of the two pulleys.

TROUBLE - ENGINE WON'T START

- Choke should be **closed** (up position) to start the engine.
- Engine switch should be **ON**.
- Carburetor may be flooded, allow 5 -10 before restarting; do not press primer bulb more than 2 times.
- Fuel in tank is old and gives poor ignition; use fresh fuel.
- Spark plug may be dirty or with incorrect gap; gap should be 0.024 - 0.028 inches (0.60 - 0.70 mm).

REPAIR / REPLACE SPARK PLUG



Use a 3/16 (5mm) hex wrench to remove the hex bolt and then lift the cover from top of engine.



Remove cover over the spark plug, then use 5/8 (16 mm) spark plug wrench to remove plug from engine.

ENGINE HOT START

1. Motor switch On.
2. Choke Lever Up.
3. One pull on the start cord.
4. Choke Lever Down.
5. Pull once to start engine.

Do not press the Primer Bulb.



FOGGING START / STOP SEQUENCE

Nozzle Adjustment: The nozzle must be adjusted to 'zero' before starting to spray. Turn the knob to the right (clockwise) until it stops. Then push down on the base of the knob (spring loaded) to move the point to the notch on the edge of the nozzle.



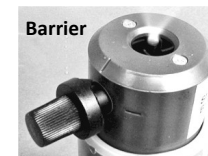
ULV fogging: Turn the adjustment knob to left (open) for 2 1/2 turns for 34 micron droplets (VMD)

The spray from the nozzle will be only slightly visible because it is made up of small droplets.



Barrier Spray: Turn the adjustment knob to full open, about 4 turns to left to deliver large droplets.

Spray from the nozzle is visible and made up of large droplets, about 54 microns (VMD).



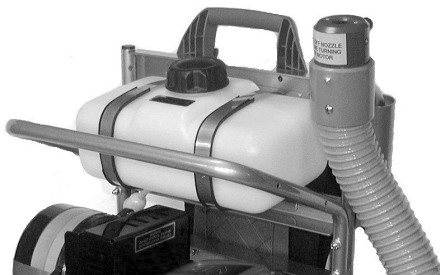
Adjustment knob: When fogging application is complete, turn the adjustment knob Off and set the 'zero' point again. The 'zero' point should be established before every application to achieve the proper droplet size in the spray.



OPERATION / FLUSHING

Fill formulation tank with insecticide. It is best to start with a full tank., and to keep it half full.

Note: Always use a funnel when filling the formulation tank to prevent spilling onto the belt mechanism below the tank.



Formulation line filter should be clean or it will block flow to the nozzle. Replace filter when dirty; it can not be opened and cleaned.

Nozzles turned Off before starting. Nozzles should be calibrated to zero: turn the adjustment knob to the right until it stops, push down on the base and move point to the mark on the nozzle.



Start engine and allow it to run for 1 minute before turning on the nozzles and fogging.

Nozzle settings can be made after the engine is running and air is flowing to the nozzles. Open the adjustment knob to the setting for ULV spray (2.5 turns) or barrier treatment (4 turns).

Formulation tank flush. A professional flushing solution must be used to get complete cleaning.

Empty formulation tank and add about 8 ounces of flushing solution, and secure the cap. Fog until the formulation tank is empty.

- **Flushing is recommended after 4 tanks full of gasoline have been used.**



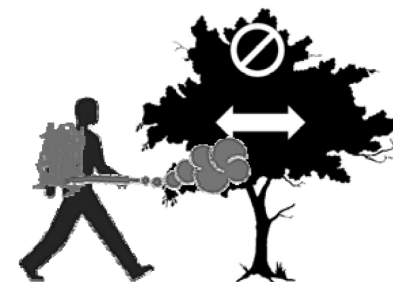
APPLICATION

Formulation coverage Consider the direction of the nozzle and spray and the height above ground to direct insecticide to the resting sites of adult mosquitoes.

The droplet cloud extends about 12 feet from the nozzles. A steady walking pace will ensure coverage in dense vegetation.

ULV droplets in the spray cloud will penetrate the central areas of trees and bushes. This is the primary resting place for adult mosquitoes.

Barrier treatment droplets will deliver a coating of insecticide on leaves. This spray is achieved when the adjustment knob is fully open. The droplet size is suitable for barrier spraying vegetation and for applying mosquito larvacide to standing water.



- **Wind at your back**



- **Hold at 50-90° angle**



- **Walk at a steady pace**

- **Caution: spray moves over fences and obstacles**

