

Black & Decker

OWNER'S MANUAL

MODEL NO. JSO-1500

Jack Rabbit Pump

MULTI-PURPOSE FLUID TRANSFER PUMP KIT

GENERAL USE

- A. Handle Assembly — Insert handle into either right or left side depending on which hand you use. Insert button cap from opposite side and fasten with screw. (See Figure 1).
- B. Use
1. Attach heavier wall black tubing to bottom fitting marked "In." The heavier wall prevents kinking.
 2. Attach other clear hose to discharge fitting marked "Out."
 3. Turn crank away from you to pump. It is self-priming and will void itself of air with a few turns.
 4. Pump may be used as a siphon where the liquid levels permit. Put inlet hose into the higher level liquid, pump to clear lines of air, then turn handle back one (1) turn to allow clear passage of liquid through discharge tubing to lower level. Pump may be set down if desired.
 5. Pump can be used for water, gasoline, hot oil, and many other liquids. Do not use chemicals that would corrode neoprene rubber, such as Chlorinated Hydrocarbons, Hydrochloric acid, or Creosote.
 6. Pump will be difficult to operate and should not be used for extended periods at temperatures below 32°F / 0°C. If you anticipate using it under cold conditions, it is advisable to store pump in a warm place, such as under car seat or in the house. If the pump itself is warm, it will pump cold liquids, e.g. gasoline at freezing temperatures, for a short period of time.
 7. **DANGER** — Do not pump flammable fluids in proximity to open flames or hot coals or in areas that are not well ventilated. **DO NOT SMOKE.**
NOTE: The gas tanks of many newer cars are fitted with anti-siphoning devices which may not permit siphoning or may damage the pump tubing.
- C. Storage
1. Turn pump handle a few times to make sure that liquid (especially gasoline) is clear from pump and hose. **CAUTION:** Gasoline left in pump may retain dangerous fumes or possibly damage tubing over a period of time.
 2. For best longevity of pump, pump should be cleaned periodically by pumping hot water and detergent through it.

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USE WITH OIL CHANGE ATTACHMENTS

A. CHANGING OIL

1. Start your engine and allow it to warm up to normal operating temperature. Oil can be pumped effectively only if oil is *hot*. Be sure to shut engine off before pumping.
2. Secure the clear vinyl tubing to the upper fitting on the pump marked "OUT." As the tubing may loosen when hot, a hose clamp is provided to hold it (use pliers).
3. Determine that the dip tube will fit into the dip stick receptacle on your engine.
4. See Figure 1 and assemble hoses and dip tube as follows: The black rubber ring supplied on the dip tube will be used as a marker. The dip tube with 1" rubber coupling should then be inserted in one end of the 5 ft. black hose. Slip the other end of the 5 ft. black hose over the lower intake fitting on the pump. Wetting the hoses will make them slide on easier.
5. Once the engine oil is sufficiently warm, pull the dip stick and insert the dip tube until you feel the bottom of the oil pan.
6. Put the discharge line into a large container such as an old windshield solution bottle. You are now ready to begin pumping.
7. When it appears that all oil has been extracted, try sliding dip tube further into opening and resume pumping again. When oil has been removed, you will notice air is being pumped into container.

B. STORAGE

To prevent oil or other liquids from dripping after use, connect one of the tubing ends to the opposite fitting, thus creating a continuous circuit. For best longevity, pump should be cleaned periodically by pumping hot water and detergent through it.

C. TROUBLE-SHOOTING

Cannot determine bottom of oil pan — If such is the case, line up the tube with your dip stick. Slide the black ring to a point about 2" longer than the dip stick. Push the tube in to about that point. With a little experimenting you can determine what the best point is and can accordingly mark it for future use.

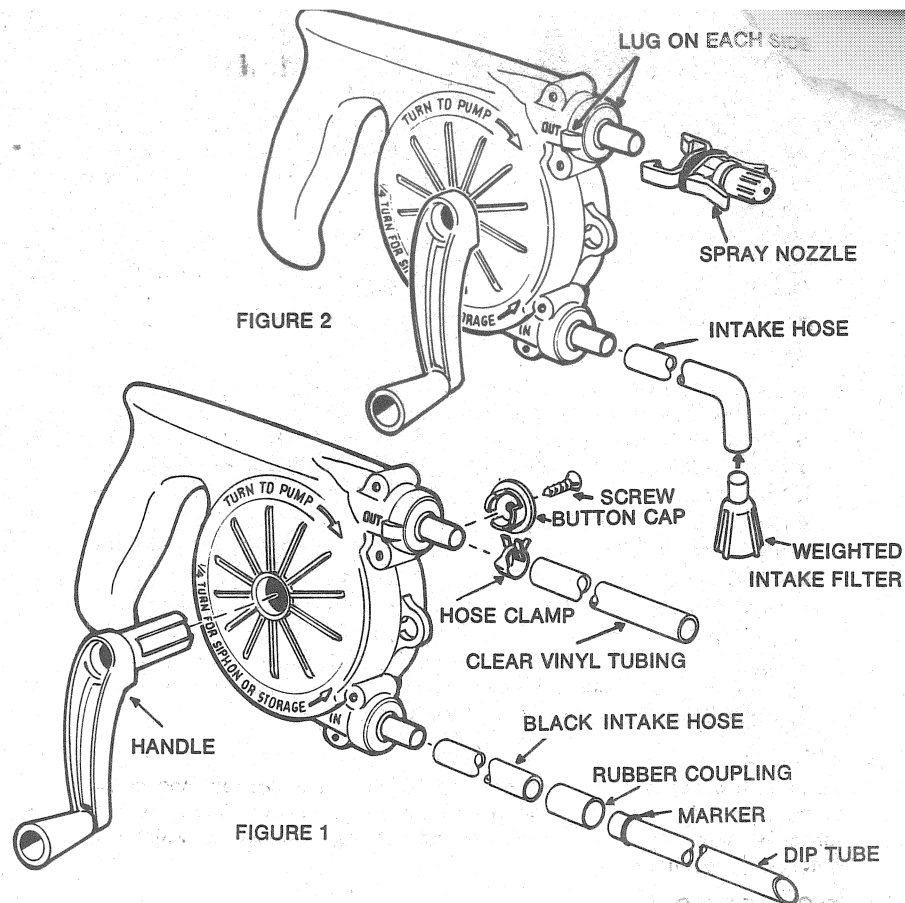
Dip tube gets caught on way down — Pull tube back slightly and twist. Carefully push in again so as not to kink tube.

D. DISPOSAL OF OLD OIL

Protect the environment. Contact your Dept. of Public Works for proper disposal or the Environmental Protection Agency for information on recycling centers in your location.

CAUTION! IMPORTANT!

AFTER EACH USE, BE SURE TO CRANK THE HANDLE BACK A TURN OR MORE TO RELIEVE ROLLER PRESSURE. IF NOT, THE ROLLERS MAY PUT A PERMANENT KINK IN THE INNER PUMPING TUBE.



USE WITH SPRAYER ATTACHMENTS

See Figure 2

A. SPRAYER NOZZLE

1. Wet black "O" ring inside of nozzle to provide for best seal on pump fitting.
2. Squeezing prongs on nozzle, push over upper "Out" fitting of pump and make sure sprayer latches securely on lugs.
3. Adjust for spray desired by turning nozzle head. Tightening creates a fine spray, whereas loosening allows for a jet stream type spray.

B. INTAKE WEIGHT FILTER

1. Attach filter to intake hose and put in pail of solution to be sprayed. Attach other end of intake hose to bottom "In" fitting on pump.

WARNING

When spraying be sure to follow the spray solution manufacturer's recommendations for handling, personal protection and storage. Many sprayable solutions such as insecticides can be harmful if breathed, ingested or left on the skin.