INSTRUCTION MANUAL

with

ILLUSTRATED PARTS LIST

for

Fuel / Water Separator

Part Number 285795

HOBART BROTHERS COMPANY
GROUND POWER DIVISION

Troy, Ohio 45373

U.S.A.
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Fuel/Water Separator Kit

The purpose of the Fuel/Water Separator covered in this manual (Figure 1) is to provide added fuel system protection to a series of generator sets manufactured by Hobart Brothers Company, Ground Power Division, Troy, Ohio 45373 U.S.A.

This Fuel/Water Separator will trap foreign debris and moisture in the fuel system. Periodic replacement is required of the filter and daily draining is required of the Collection Bowl.

DESCRIPTION

This unit features a standard in-head fuel priming pump. The base of the unit consists of a reusable see-through contaminant collection bowl which, will allow the operator to check contaminants at a glance. These filtering/separator systems are permitted up to 7 PSI of head pressure.

1. OPERATION

   a. Priming (See fig. 1)
      (1) Loosen the vent plug.
      (2) Operate the primer pump until fuel purges at the vent plug.
      (3) Close the vent plug, start the engine and check for leaks.
      (4) Correct leaks as necessary with the engine OFF.

2. MAINTENANCE

   Water is heavier than diesel fuel and will settle to the bottom of the bowl and appear different in color. The bowl must be drained before contaminants reach the bottom of the element or when the Water Detector Module (if equipped) indicates it is time to “drain water.”

   Frequency of water draining or element replacement is determined by the contamination levels present in the diesel.

   a. Draining the Collection Bowl (See Fig. 1)
      (1) Place a container (1 quart min.) under the contaminant drain.
      (2) Turn the contaminant drain knob counterclockwise (if facing the bottom of the bowl) to open the drain.
      (3) Operate the hand pump to drain off contaminants.
      (4) Turn the contaminant drain knob clockwise to close the drain.

   b. Element replacement

      Element replacement intervals is determined by the contamination level in diesel fuels. Fuel flow to the engine becomes restricted as the element slowly plugs with contaminants, resulting in noticeable power loss and/or hard starting.

      Replace the element every 500 hours of operation, every other oil change, annually or if a power loss is noticed, which ever comes first. If a vacuum gauge has been installed on the outlet side of the filter, change the element between 6 to 10 inches of mercury (restriction). The actual measurement varies in different fuel systems.

CAUTION

Inspect or drain the collection bowl of water and debris daily.
NOTE: Always carry an extra element as one tank full of excessively contaminated fuel can plug a filter.

(1) Drain off some fuel by loosening the vent plug and opening the drain valve.

(2) Disconnect the water sensor connector, if equipped.

(3) Spin the element and bowl of together. Remove the bowl and clean the O-ring gland.

(4) Apply a coating of clean fuel or motor oil to the new O-ring and element seal. Spin the bowl on to the new element and then spin them both onto the filter head snugly by hand only. **DO NOT USE TOOLS TO TIGHTEN!**

(5) Connect the water sensor connector, if equipped.

(6) With the vent plug still loosened, operate the primer pump until fuel purges at the vent plug. Close the vent plug, start the engine and check for leaks. Correct as necessary with the engine off.

NOTE: The priming pump is intended for priming fuel into the Racor filter only and not the entire fuel system

3. TROUBLESHOOTING PROCEDURES

A major cause of power loss or hard starting is the result of an air leak.

a. Air leak

If your unit will not prime or fails to hold prime, first check that the vent plug and drain valve are properly closed and that the element and bowl are snugly tightened.

Check fitting connections and ensure the fuel lines are not pinched or clogged with contaminants. If troubles persist, contact the Hobart Brother Service Department.
If you have any questions concerning your Hobart Ground Power equipment, you are invited to contact our Service Department by mail, telephone, or FAX.

Write: Hobart Brothers Company
Ground Power Division
Service Department
1177 Trade Square East
Troy, Ohio 45373
U.S.A.

In U.S.A. (800) 422-4166 (Parts)
(800) 422-4177 (Service)

From Foreign Countries (937) 332-5050 (Parts)
(937) 332-5060 (Service)

FAX: (937) 332-5121

4. Manufacturer’s Codes
   a. Explanation of Manufacturer’s (Vendor) Code List

The following list is a compilation of vendor codes with names and addresses for suppliers of purchased parts listed in this publication. The codes are in accordance with the Federal Supply Codes for Manufacturer’s Cataloging Handbook H4-1, (CAGE CODES) and are arranged in numerical order. Vendor codes are inserted in the nomenclature column of the parts list directly following the item name and description. In case a manufacturer does not have a code, the full name of the manufacturer will be listed in the nomenclature column.

<table>
<thead>
<tr>
<th>Code</th>
<th>Vendor’s Name &amp; Address</th>
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<tbody>
<tr>
<td>55752</td>
<td>Parker Hannifin Corp.</td>
</tr>
<tr>
<td></td>
<td>Racor Div.</td>
</tr>
<tr>
<td></td>
<td>3400 Finch Rd.</td>
</tr>
<tr>
<td></td>
<td>P.O. Box 3208</td>
</tr>
<tr>
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<td>Modesto, CA 95353-3208</td>
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</table>
Contaminant Drain Knob

Fuel Primer Pump

Vent Plug

Contaminant Collection Bowl

Figure 1

Fuel / Water Separator Kit / Part No. 285795
### NOMENCLATURE

<table>
<thead>
<tr>
<th>FIGURE &amp; ITEM NO.</th>
<th>HOBART PART NO.</th>
<th>AIRLINE PART NO.</th>
<th>NOMENCLATURE</th>
<th>UNITS PER ASSY</th>
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<td>1-</td>
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<td>. CONNECTOR, BARBED, 5/16 HOSE</td>
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<td>. ELBOW, MALE, BARBED, 5/16&quot; HOSE</td>
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<td>. FILTER, FUEL/WATER SEPARATOR (V55752 #220R)</td>
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</tbody>
</table>

### SPARE PARTS LIST

| NO NUMBER        | KIT, PUMP KNOB SHAFT ASSY (V55752 #RK20025) | 1 |
| NO NUMBER        | ELEMENT, 2 MICRON SEPARATOR (V55752 #R24S) | 1 |
| NO NUMBER        | O-RING, BOWL/CAN (V55752 #20016) | 1 |
| NO NUMBER        | KIT, CLEANER BOWL (V55752 #RK20017) | 1 |
| NO NUMBER        | KIT, KNOB, DRAIN ASSY (V55752 #RK20019) | 1 |
| NO NUMBER        | PLUG, 1/2-20 SAE, PLASTIC (V55752 #RK20126) | 1 |