

## HYDRAPAK FAN REPLACEMENT

### BEFORE INSTALLATION

1. Read these instructions thoroughly before starting work. If you don't understand a procedure, call Reimann & Georger Corporation or its distributors for assistance.
2. If any item on the following parts list is missing, call Reimann & Georger Corporation or your local distributor for assistance. Return any damaged parts to the place of purchase immediately. Do NOT substitute any components.

Quantity	Description
1	10" FAN ASSEMBLY
4	FAN MOUNTING CLIPS

3. Read and fully understand the operating manual for the HydraPak being used.
4. Never lift, suspend, or lower the fan assembly by the wire harness.
5. The work area must be dry and clean and be free of water, chemical contaminants, construction debris, and excessive dust.

### REMOVING OLD FAN



#### **WARNING:**

**NEVER ADJUST OR REMOVE ANY COMPONENTS, LINES, OR FITTINGS WHILE THE HYDRAPAK IS RUNNING OR WHENEVER THE HYDRAULIC FLUID IS HOT. LIQUID UNDER HIGH PRESSURE CAN PIERCE THE SKIN, CAUSING DEATH OR SERIOUS INJURY. IN CASE OF INJURY, GET IMMEDIATE MEDICAL ATTENTION.**

**PREVENT ACCIDENTAL STARTUP IN A GAS POWERED HYDRAPAK BY REMOVING THE SPARK PLUG WIRE AND DISCONNECTING THE NEGATIVE WIRE FROM THE BATTERY TERMINAL. IN AN ELECTRIC HYDRAPAK, DISCONNECT THE ELECTRIC POWER SOURCE AND LOCK IT OUT.**

1. Disconnect the fan wire harness from the 12-volt power supply.
2. Remove and save the four washers and nuts holding the fan to the heat exchanger frame.
3. Lift the fan off the heat exchanger frame.

### INSTALLING NEW FAN

1. Install four mounting clips onto the four molded fittings provided on the replacement fan. As viewed from the top of the fan, the clips should be flush with the top surface of the molded fittings. Do not use any damaged mounting clips.
2. Insure the surfaces for mounting the fan to the heat exchanger are clean.
3. Place the fan and mounting clips over the four studs provided on the heat exchanger frame. Fasten the fan with the washers and nuts that were saved from the old fan removal.

4. Connect the wire harness to the 12-volt power supply.
5. When proceeding to start the HydraPak, always consult the separate instruction manual. The HydraPak manual describes procedures that must be followed to insure the safety of all personnel and the proper performance of the equipment.

## OPERATION

1. If using the pull start on a gas powered HydraPak, the ignition key must be turned clockwise to the first or “run” position to operate the fan. When the ignition key is in the OFF position, no electrical power is available to operate the fan or any accessories.



### **CAUTION:**

**NEVER OPERATE THE HYDRAPAK WITHOUT THE BATTERY CONNECTED. DAMAGE TO THE ENGINE ELECTRICAL SYSTEM WILL OCCUR.**

2. If using an electric HydraPak, insure the AC/DC converter switch is in the ON position. If this switch is turned off, the fan will not start. When the motor is started, the fan will automatically start and remain running as long as the motor starter switch is on.



### **CAUTION:**

**DO NOT OPERATE ANY HYDRAPAK WITH THE FAN SHUT OFF. THIS WILL LEAD TO SYSTEM OVERHEATING AND EQUIPMENT DAMAGE.**

3. Before starting the HydraPak engine or motor, check the following:
  - a. Insure the fan shaft turns freely when rotated by hand.
  - b. Insure the fan electrical connections have been made and are tight.

## TROUBLESHOOTING

The following chart is intended to assist with troubleshooting the fan. While not all inclusive, the chart outlines the most common causes of a problem and the recommended course of action.

The troubleshooting guide for the associated HydraPak is in the manual specifically for this unit.



### **CAUTION:**

**IF THE PROBLEM WITH THE FAN IS NOT CERTAIN, ALWAYS FOLLOW THE MANUFACTURER’S WARRANTY POLICY BEFORE ANY OTHER REPAIR OR MAINTENANCE IS ATTEMPTED.**

SYMPTOM	CAUSE AND CORRECTIVE ACTION
Fan will not start.	<p>Fan defective—contact the nearest authorized service center.</p> <p>Defective relay—replace.</p> <p>Fan connection unplugged—check and secure all fan plug connections at fan motor, fan relay, and at any fan override switch on control panel.</p>
Fan will not start. (continued)	<p>If using an electric HydraPak:</p> <ol style="list-style-type: none"> <li>a. AC/DC converter switch is in OFF position—switch must be turned ON to operate the fan.</li> <li>b. Blown fuse in fan circuit—replace with specified fuse.</li> </ol> <p>If using a gas powered HydraPak:</p> <ol style="list-style-type: none"> <li>a. Battery was disconnected during a pull start—reconnect the negative battery wire. Turn ignition switch to ON position to start fan.</li> <li>b. Blown fuse on fan circuit or ignition—replace with specified fuse.</li> <li>c. No battery in HydraPak or battery is dead—fan requires a charged 12 volt battery to operate.</li> <li>d. Pressure switch defective—replace on Honda equipped HydraPaks.</li> </ol>
Fan is excessively noisy.	<p>Fan defective—contact the nearest authorized service center.</p> <p>Excessive vibration is occurring—check fastening of fan to mounting clips and mounting clips to heat exchanger.</p>