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T.I.P. Troubleshooting Information on Power Gear

FLUID SENSOR REPLACEMENT - P/N 500118:

FOR PUMPS DATED JUNE 1993 THRU DECEMBER 1993

NOTE: These pumps are equipped with an obsolete fluid sensor. When replacing this fluid sensor with a newer type, it can only be removed from the inside of the tank. Therefore the tank has to be removed first.

Removal of old sensor:

- Retract all jacks.
- Clean drain port area.
- Drain oil from tank by first removing the fill plug, and then removing the drain plug.
- Disconnect the float switch from harness wiring.
- Unscrew the 4 screws, which secure the tank to the rest of the pump/motor assembly, and carefully remove the tank.
- Remove fluid sensor nut and washer.
- Remove fluid sensor from inside of the tank
- Clean inside of the tank, and around fluid sensor opening.

Installation of new switch

- 1) Move grommet, washer and nut off fluid sensor threads and onto the wires.
- 2) Insert fluid sensor into the power unit tank.
- 3) Slide grommet into the hole such that the tank wall is located in the grommet groove.
- 4) Gently pull and wiggle wires to bring the thread of the fluid sensor body out of the tank through the grommet hole.
- 5) While gently pulling on the wires, move the washer and nut onto the threads and tighten the nut until snug.
- 6) Locate the wrench flats on the fluid sensor and rotate the fluid sensor until the rounded end is located up and at a 12 o'clock position. (See diagram)
- 7) Hold fluid sensor in the 12 o'clock position with a 3/8" open end wrench and torque nut to 15 to 20 inch-pounds. (Approximately 1 1/4 to 1 1/2 turns)
- 8) Connect wires to wire harness "brown" and "red" leads, if necessary, use adapter for spade connectors and grease spade connections. The switch wires are not polarity sensitive and can be connected in either direction. Refer to wiring diagram in owners manual.

Reinstall the tank:

- Clean the port plate o-ring and groove where the reservoir mounts on the motor-pump assembly.
- Apply some grease on this O-ring
- Re-install the tank with the four screws
- Refill the tank per owners manual

LAY-OUT FLUID SENSOR

