Consult factory regarding discrepancies Product information presented here reflects conditions at time of publication

### INSTALLATION INSTRUCTIONS MECHANICAL SWITCH

Supersedes 0397

TOUCHING OR WHILE SERVICING. WARNING: ALWAYS DISCONNECT OR UNPLUG PUMP FROM ELECTRICAL OUTLET BEFORE REMOVING

Electrical Code. WARNING: All electrical systems must be installed by a qualified licensed electrician according to the National

(1) Detach the rubber float rod guide from the float rod by stretching the float rod guide over the bottom of the rod. Remove for deterioration or damage. Replace if required. float and float rod by turning them 90 degrees and slipping float rod off the switch arm. Check the rubber float rod guide



Clean motor housing seal, making sure surfaces are smooth wires from switch. Check for burned, broken, or damaged wires and replace as needed. Note wire locations.

NOTE With a volt-ohms meter (Set at RX1), check between each of the switch snap, replace the arm and seal assembly Install new switch and stabilizer bar. Tighten screws (12 in-#) switch arm up and down. If there is any resistance other than the mounting holes (see Fig. 3). Check for free movement of the Note stabilizer bar's rib must touch switch assembly between

WHITE WIRE -RED WIRE -WIRE NUT-WHITE WIRE

GREEN GROUND WIRE

FIGURE 1

BLACK WIRE TERMINALS

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**BLACK WIRE** 

Service Station. should move to (0)). If a resistance is measured or there is no meter (Set at RX1). There should be no resistance (needle ground pin terminal at the plug and motor housing with volt-ohms two (2) thru-wall terminals and motor shell for resistance. If any needle movement, repair as needed or take to an Authorized Authorized Service Station for repair. Also, check between the resistance (needle should not move) is measured, take to an



HARDWARE ITEMS

TANK VALVE

6 IS REQUIRED TO REDUCE A POSSIBLE SHOCK HAZARD. Pressure test switch cavity at 2 to 3 PSI. (See Fig. 2) Look for air (B) and at cord. NOTE: If bubbles are seen, repairs are required bubbles under water at the gasket, (A), screw heads, switch arm ake unit to an Authorized Service Station for repair. (THIS TEST

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9 If no leaks are seen in pressure test, install the new test plug under the head of the plug. provided and tighten so that two (2) threads or less are showing

8 Install float, float rod and guide in reverse order to #1. Without UNPLUG UNIT insulated tool, gently lift and lower float to test on/off operations. touching pump, plug unit into a grounded outlet and with an

OFF,

Re-install pump in pit with piping in place, plug in and test on/off not touch the unit or piping when performing this test levels in the sump pit by running water in same (See Fig. 2). Ö

FIGURE 2

## ARM ASSEMBLY REPLACEMENT INSTRUCTIONS

203 Remove switch (see instructions 2-4 above)

Clean out old sealer from casting Drive out arm assembly from inside cap with a punch, screw driver, or other appropriate tool.

Apply the sealer (enclosed) completely around the new arm and

seal cup where it will meet the casting

STABILIZER BAR

**€3** 

that pictured above. Using installation tool such as 3/4" O.D. Locate the new arm assembly in the casting so the travel is like tubing and a hammer, seat the assembly to the shoulder.

Replace switch, adjust and test as instructed above

(6) Replace Switch, adjust and uses as measure.
WARNING: AFTER THIS SWITCH IS INSTALLED, A PRESSURE
TEST OF THE SWITCH COVER IS REQUIRED TO REDUCE A POSSIBLE SHOCK HAZARD. (SEE (7) ABOVE)

FIGURE 3

# SWITCH APPLICATIONS AND CONFIGURATIONS

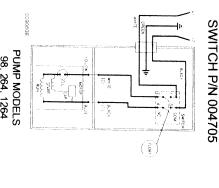
**SWITCH P/N 004705** 

| Switch P/N | Used On Pump Model  | Lead Lg.      | Terminations                    |
|------------|---|---------------|---------------------------------|
| 004705     | 53, 55, 57, 59, 97, 98,<br>264, 1053, 1057, 1059,<br>& 1097, 1098, & 1264 | 3½" to<br>4"  | Two (2) Pin<br>Terminals        |
| 004740     | 137, 139, 267, 268,<br>1137, & 1267                                       | 4" to         | A Pin and<br>A Flag<br>Terminal |
| 004744     | 161, 163, 165, 185,<br>188, 189, 284, 293,<br>294, 295                    | 5½" to<br>5¾" | Two (2) Flag<br>Terminals       |
| 004755     | 282   | 6¼" to<br>6¾" | A Pin and<br>a Flag<br>Terminal |

| ž.     | ) Flag<br>hals | Ø.   | and  | naks   | 2) Pin | nations    |    |
|--------|----------------|------|------|--------|--------|------------|----|
|        |                |      |      |        |        |            |    |
|        |                |      |      |        |        |            |    |
| 005280 |                |      |      | 318+16 | F      |            |    |
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PUMP MODELS 1053,1057,1059 53,55,57,59,97

**SWITCH P/N 004740** 



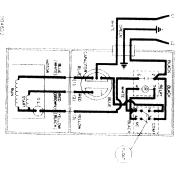
### 98, 264, 1264





### **SWITCH P/N 004744**

**SWITCH P/N 004755** 



161,163,165,185,188,189, 284,293,294,295 PUMP MODELS

PUMP MODELS