

**KIT 35675-SERIES
DRY TANK CUT-OFF SWITCH
KIT 37121-SERIES
KIT 44814-0000
AUTOMATIC PRESSURE SWITCHES
REPLACEMENT INSTRUCTIONS**

AUTOMATIC PRESSURE SWITCHES DRY TANK SWITCHES REPLACEMENT INSTRUCTIONS

GENERAL INSTRUCTIONS

This instruction sheet describes how to:

- (1) Replace a pressure switch in a "dash" -1000 series PAR water system pump (example: 36950-1000).
- (2) Install a conversion bracket and replacement switch in a pump with a dash number below -1000 (example: 36950-0000).
- (3) Replace a dry tank cut-off switch, directly or with a conversion kit.

Refer to the tables below for replacement switch part number and procedure to use. For dash-number pumps below -1000 that are already fitted with a conversion plate, use the "direct replacement of pressure switch" procedure applicable to -1000 models.

Pump Models	Pressure Switch (Procedure A)	Pressure Switch Conversion Kit (Procedure B)
17510 36950 36800 36955 36850 36970 36900 37000 36905 37215	(-1000 & Higher) Use Kit # 37121-0010 or 44814-0000	(Below-1000) Use Kit # 37121-0000

Pump Models	Direct Replacement Dry Tank Switch (Procedure A)
36850 36905 36955	Use Kit # 35675-0010
Pump Models	Dry Tank Switch with Conversion Kit (Procedure C)
36850 36905 36955	Use Kit # 35675-0000

Automatic pressure switch 44814-0000 directly replaces switch on all PAR water systems built to comply with the 1978 USCG electrical requirements. It may also replace a 37121-0010 with minor wiring change (Fig. 2 & 4).

**Procedure A
AUTOMATIC PRESSURE SWITCH OR DRY TANK SWITCH REPLACEMENT**

Direct replacement of switch. No conversion kit required: Air compressor 17510 and water pump models that have dash number -1000 or larger (Example: 36950-1000) and pumps with encapsulated dry tank switch (Figure 2).

1. Turn off power to pump. Bleed pressure from system. Disconnect power leads from switch, and remove using 9/16" wrench.
2. If switch has spade connectors and red cap, remove connectors from motor lead and (+ pos.) power lead and use butt connectors.
3. Apply a thin film of sealing compound to the replacement switch threads. Keep compound clear of passageway hole. Moisten rubber side of washer with water. Thread washer onto switch threads with metallic side of washer facing switch.
4. Screw replacement switch into pump base until snug (Figure 1).
5. Reconnect switch leads using butt connectors for pressure switch and tap connectors for dry tank switch. (Figure 2).

INSTALLATION (-1000 and higher)

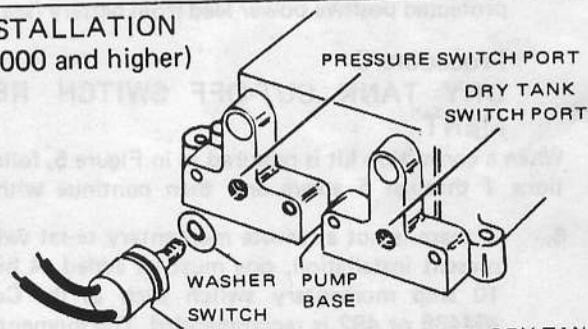


Figure 1. New Switch Replacement

WIRING (-1000 and higher)

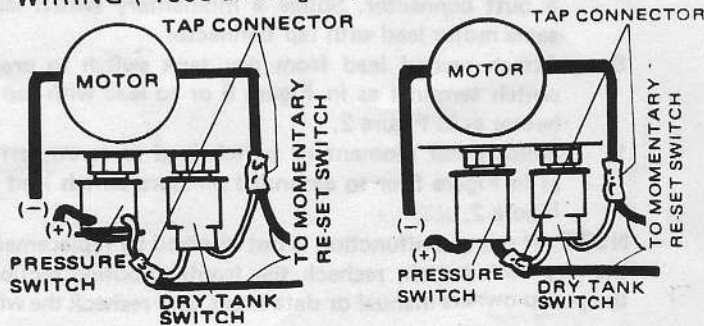


Figure 2.

Procedure B AUTOMATIC PRESSURE SWITCH REPLACEMENT

Conversion kit required: Air compressor 37000 and water pump models that have dash number less than -1000. Example: 36950-0000. NOTE: If pump already has been fitted with conversion kit (Figure 3), use the direct replacement instructions, Procedure A.

1. Turn off power to pump. Bleed pressure from system. Disconnect power leads from pressure switch.
2. Remove switch cover. Remove two lower screws inside case. Pull switch straight out to separate from pump. Dislodge O-ring and sleeve from pressure switch port of base. (Some older configurations may not have a sleeve.)
3. Inspect pressure switch port on pump base. If port is counterbored to accept an O-ring, proceed with step a. If port is not counterbored, proceed with step b.
 - a. Moisten small O-ring with water and place in counterbore of base. Take care to seat O-ring at bottom of counterbore. Place brass sleeve over stub of the conversion bracket.
 - b. Moisten small O-ring with water and place around stub of conversion bracket (brass sleeve not used).
4. Align conversion bracket mounting holes with those in base. Insert stub of conversion bracket into pump base with a smooth straight push. Secure conversion bracket to base with screws provided (Figure 3).
5. Moisten washer with water and thread onto, switch threads with metallic side facing switch. Screw replacement switch into conversion bracket tightly. Hold conversion plate adapter with wrench while tightening switch.
6. Connect one of the motor leads to the negative power lead from the battery using a butt splice connector. Crimp connector firmly in two places over bare wire ends. Connect a butt connector between other motor lead and one switch lead. Crimp connector firmly over bare wire ends. Connect other switch lead to fuse protected positive power lead from battery (see Figure 4).

Procedure C DRY TANK CUT-OFF SWITCH REPLACEMENT

When a conversion kit is required as in Figure 5, follow instructions 1 through 5 above and then continue with 6 below.

6. If there is not a remote momentary re-set switch in the present installation, one must be added. A high quality 10 amp momentary switch such as the Cole Hersee #M485 or 492 is recommended. The momentary switch should be installed next to pump on-off switch and 2 runs of 14 AWG wire should be used between the momentary switch and the pump.
7. Splice one dry tank switch lead to a motor lead using a butt connector. Splice a momentary switch lead to same motor lead with tap connector.
8. Attach second lead from dry tank switch to pressure switch terminal as in Figure 5 or to lead with tap connector as in Figure 2.
9. Splice other momentary switch lead to screw terminal as in Figure 5 or to extended pressure switch lead as in Figure 2.

NOTE: If pump malfunction is not resolved by replacement of the dry tank switch, recheck the troubleshooting section of the pump owners manual or data sheet, and recheck the wiring.

CONVERSION KIT INSTALLATION (Below -1000)

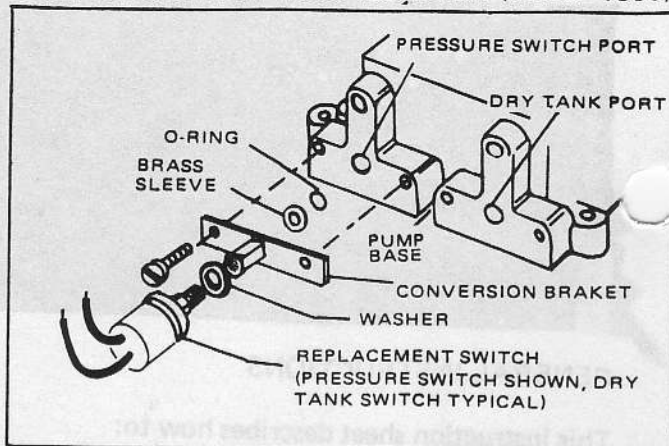


Figure 3.

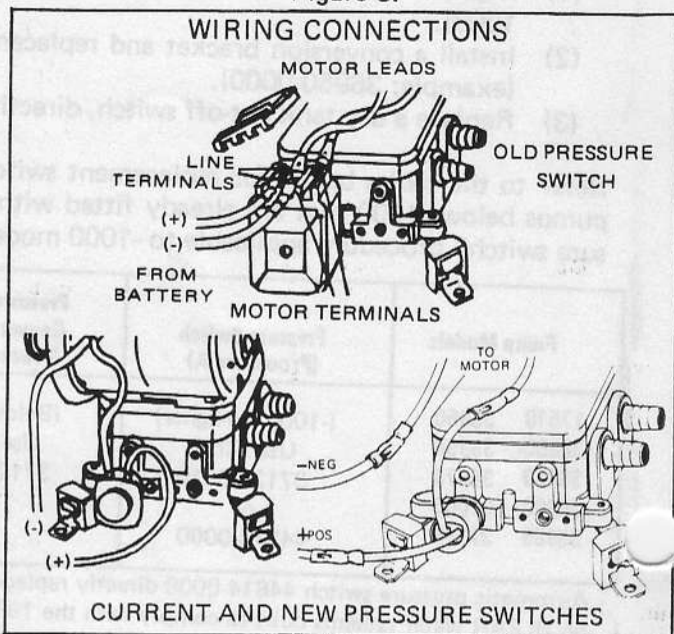


Figure 4.

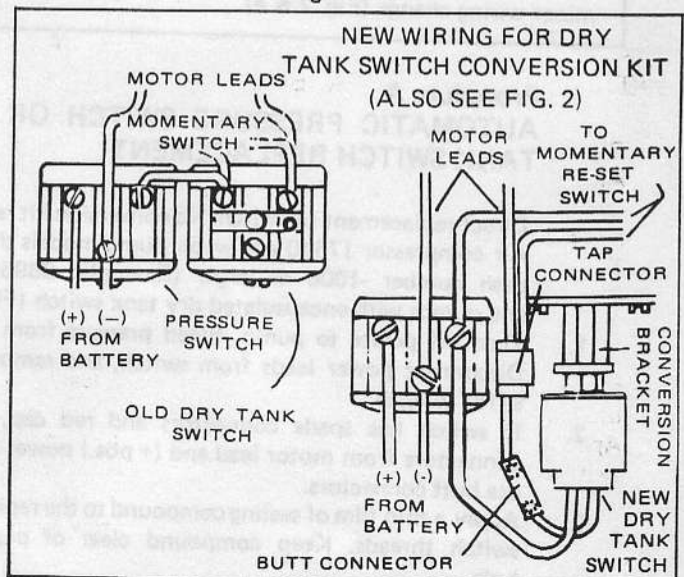


Figure 5.

JABSCO PRODUCTS

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