



10-005A
15 March, 2010

MODIFYING THE PRESSURE SWITCH IN THE M701/H

V. PURPOSE:

This service note is to provide instructions on how to add jumper wires to the pressure switch in the M701/H, paralleling the used and disused switches together to correct short cycling of the pump.

VI. TOOLS:

Philips screwdriver
5/16 inch, hex driver

VII. PARTS:



The electronics used in T-API analyzers are sensitive to Electrostatic Discharge (ESD). When working on any T-API device, please ensure that you are properly grounded prior to handling or touching any electronic circuitry in the analyzers! For more information on how to protect sensitive components from ESD during handling, please contact T-API customer service and ask for the ESD Service note number 03-022A.

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IV. PROCEDURE:

1. Disconnect power from the analyzer.
2. Remove the instruments cover by removing the screws along the both sides and fold down the rear panel by loosening the two captive screws on the rear panel.
3. Locate the pressure switch, see figure #1. Loosen the captive acorn nut that holds the cover onto the pressure switch and pull off the cover.

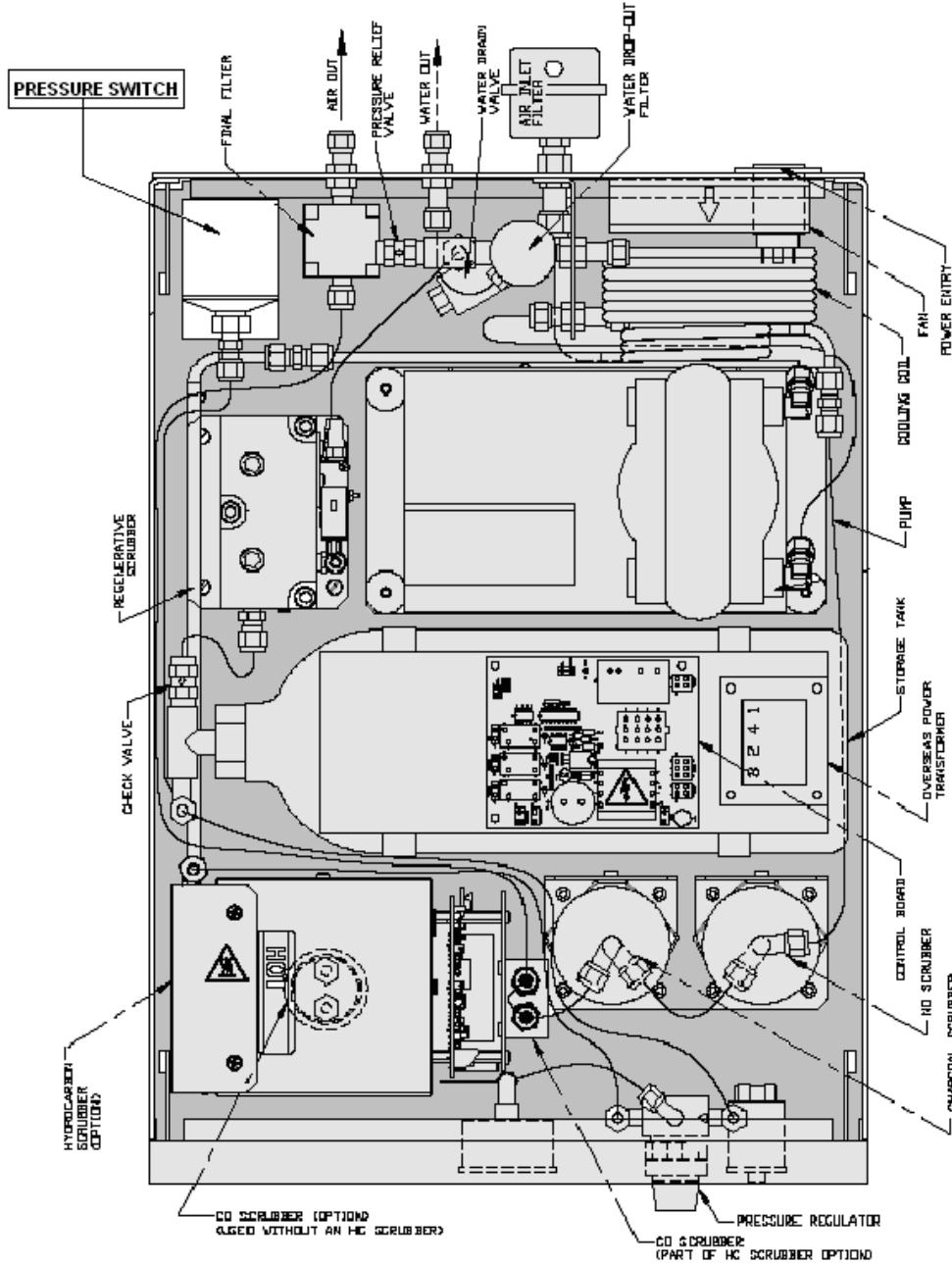


Figure #1

4. Inside the pressure switch, you will find a single pair of wires, see figure #2

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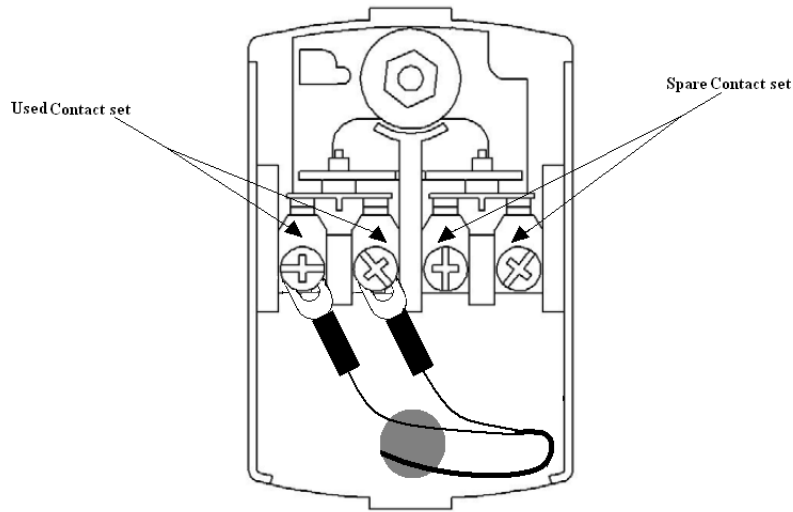


Figure #2

5. Note that the wires are connected to one set of contacts and the second set of contacts are not used.
6. Loosen all four contact screws and disconnect the wires from the used contact set.
7. Install a short piece of wire from the first contact on the left (1st screw on the far left) to the spare contact on the right (3rd screw from the left), see figure #3 (dark gray wire).
8. Install a second short piece of wire from the second contact on the left (2nd screw from the far left) to the spare contact on the right (4th screw from the left), see figure #3 (light gray wire).

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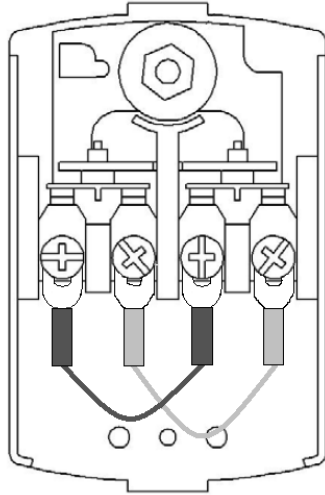


Figure #3

9. Reconnect the wires that were disconnected in step 6 to the first two contact screws on the left (the far left screw and the second from the left screw), note that the polarity is not important. See figure # 4 (black wires).

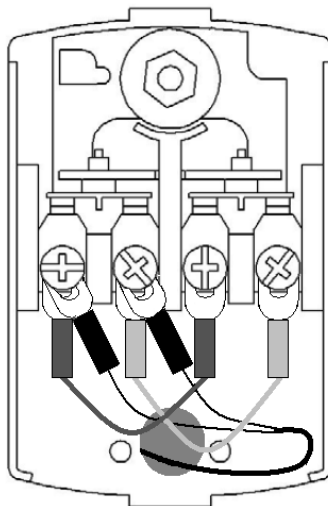


Figure #4

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10. Reinstall the cover on the pressure switch and tighten the acorn nut.
11. Close the rear panel, reinstall the cover and power the unit back up.

V. NOTE:

1. Spraying the contact switch surfaces with electrical contact cleaner can help to prevent intermittent operation.

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