

HOW TO REPLACE A PRESSURE SENSOR ON A 2-WAY DIGITAL MANIFOLD IN THE FIELD

STEP #1

Remove both knobs using a large flat screwdriver. Rest the screwdriver on the rubber cover to prevent damage to the cover or case as shown in the photograph below.



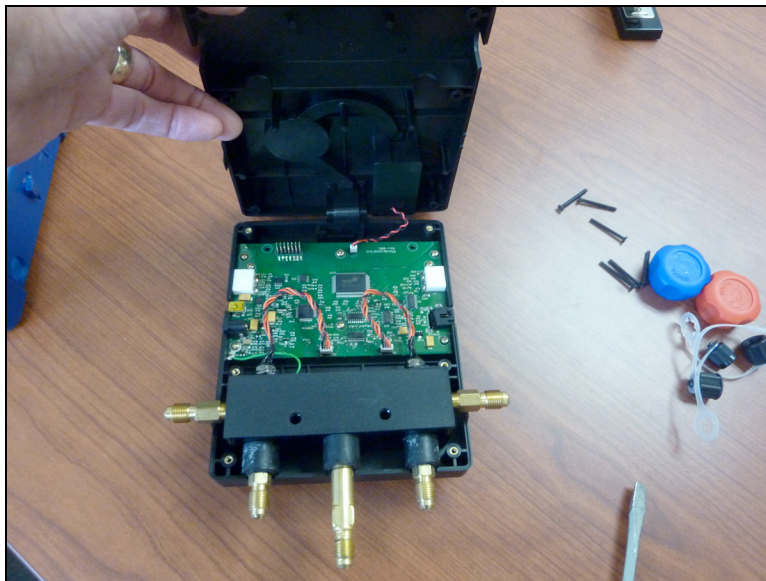
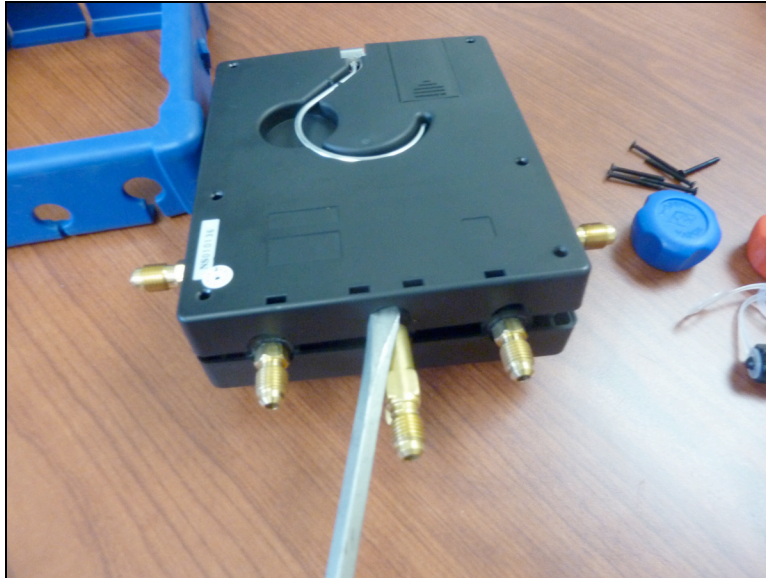
STEP #2

Remove all plastic caps from the ports to facilitate the removal of the flexible blue rubber cover. Start the removal on the rear of the unit, by prying OFF the cover, where the rectangular slots are located (see photograph below). Continue removing the cover from all sides until the cover is completely separated from the housing.



STEP #3

Remove all Phillips head screws from the rear of the housing. While the rear of the unit is facing up and the input ports are nearest to you, use a flat screwdriver and gently separate the two halves of the housing. Be careful in lifting the back cover (top) away from the bottom cover since a wire will still be secured between the two halves. If you lift the back cover from a 6:00 to 12:00 position, you can lay both cover sections down without disconnecting the battery connection from the main PCB.

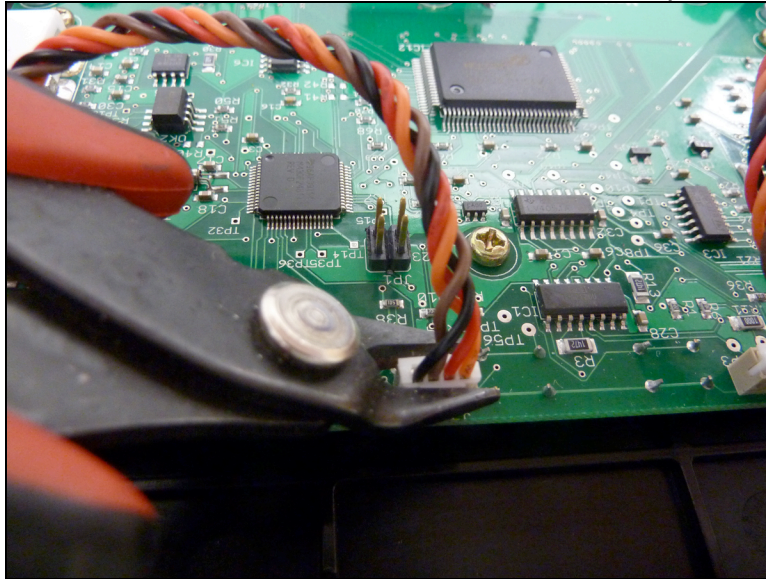


STEP #4

Since the unit is lying on its face, the LOW-pressure sensor will be on the right side of the manifold block and the HIGH-pressure sensor will be on the left side.

STEP #5

Remove both pressure sensor connectors WITH EXTREME CARE. The recommended tool is a miniature side cutter. If used improperly or with excessive force, this tool can sever the cable, therefore, be very careful. Carefully place the jaws of the side-cutter between the plug and the socket interface, gently apply a minimal amount of force and carefully rock the side cutters in a lateral motion until the plug lifts out of the PCB socket. Repeat this process and remove the other pressure sensor. TAG THE SENSOR THAT IS TO BE REMOVED at this time. The photo below will detail the recommended removal process.



STEP #6

Having marked the pressure sensor that is to be removed and replaced, NOW proceed to remove the manifold block out of the housing cavity. Secure the block in a vice; proceed to remove the marked sensor using a 7/16-inch wrench.

Apply blue Lock-Tite around the threads of the new sensor and re-install in the manifold block, applying sufficient force until tight (approximately 10 inch-lbs). Be careful not to cross-thread the new sensor in the process. Clean off excess Lock-Tite.

STEP #7

Return the manifold block back to its position in the case, making certain that the grounding clip is sitting in its notched position in the case and making contact with the block. It may be advantageous to raise the cover slightly to make the re-insertion process of the manifold block back into the case less difficult (due to the interference of the knob shafts).

