

INSTALLATION INSTRUCTIONS

PRESSURE SWITCH

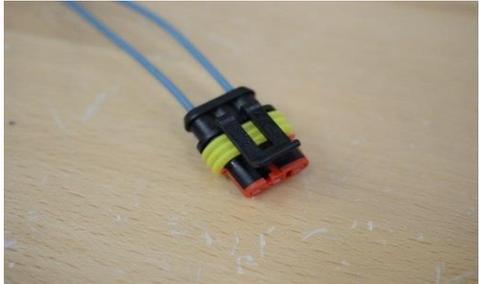
UNIVERSAL APPLICATION

Document: 19-0109
Support: info@radiumauto.com

This switch can be used with air, oil, fuel or coolant.
DO NOT USE WITH BRAKE FLUID!

NOTICE: The pressure switch should not be used in the primary power path for a fuel pump. The switch should be used to trigger a low current relay only. Make sure current does not exceed 1 AMP.

STEP	TOOLS NEEDED	INSTRUCTIONS	PHOTO
1	1/8NPT TAP	Install the pressure switch into a threaded 1/8NPT hole in the intake manifold if using as a boost-trigger for a fuel pump. If a threaded 1/8NPT hole does not exist, one will have to be created by drilling and tapping. Alternatively, a brass female 1/8NPT to hose barb adapter can be installed on the switch (seen in picture) along with a vacuum hose connected to an existing vacuum port on the intake manifold. Make sure to use a small amount of PTFE tape or paste on the threads.	
2	WIRE STRIPPER	Terminals are provided and must be crimped on to wires supplied by the installer. Wires should be 16 to 18 gauge. Strip about 4mm of insulation off of the end of the wire. Then install the yellow rubber seal as shown. Insert the wire into the terminal. Be sure the bare wire is positioned into the area where the small crimp will be made. Also, make sure the rubber seal is lined up with the tangs on the terminal, as shown.	
3	TERMINAL CRIMP TOOL	Use a terminal crimp tool that is able to properly crimp without damaging the terminal.	
4		Complete the crimp on the wire and also crimp the tangs over for the rubber seal.	

5		<p>With the crimps completed, insert the terminals into the plug (as shown) with the crimped side facing the same direction as the plug locking tab. Push the terminal in until it clicks into place.</p>	
6		<p>With both wires pushed into the plug, lock them in place by pushing the red retaining clip into the closed position.</p>	
7		<p>With the wiring complete, the next step is to adjust the set point.</p>	
8	<p>MULTIMETER PRESSURE PUMP</p>	<p>Connect a continuity tester (such as a multimeter) to the two wires of the pressure switch. Attach a hand pump, such as a "Mighty Vac" that has a positive pressure mode, with a gauge to the port of the pressure switch. Increase the pressure and watch the gauge for when the switch triggers.</p>	
9	<p>3MM ALLEN KEY</p>	<p>The switch can be adjusted by removing the electrical connector and inserting a 3MM Allen key. Tightening the screw increases the set point and loosening the screw decreases it. The available adjustability is between 3 and 15psi.</p>	
10		<p>Refer to the diagrams below for possible ways to wire in the pressure switch to control a fuel pump.</p>	

