



INSTALLATION MANUAL

Flex Fuel Sensor Adaptor

PFEFS650-10

Included Items	QTY
PFEFS650-10 Flex Fuel Sensor Adaptor + Bracket	1
M5 x 35mm Socket Head Cap Screw	4
M6 x 15mm Socket Head Cap Screw	2
M6 x 10mm Countersunk Head Cap Screw	2
ISO #12 Viton O-Ring	8

WARNING: PLEASE READ ALL INSTRUCTIONS BEFORE PROCEEDING. PROFLOW WILL NOT BE RESPONSIBLE FOR ANY DAMAGE AS A RESULT OF THE INCORRECT INSTALLATION OF THIS PRODUCT. IT IS RECOMMENDED THAT A QUALIFIED AUTOMOTIVE TECHNICIAN PERFORMS THIS INSTALLATION.

This flex fuel sensor adapter splits fuel flow into a bypass valve parallel to the sensor inlet. As the flex fuel sensor is directly in-line with the fuel flow path, it will read the ethanol content of the incoming fuel at high and low engine speeds. Traditionally this could be done using a variety of fittings and Y-adapters. However, this compact adapter simplifies plumbing and is much less complicated to install, less restrictive, and will fit many GM flex fuel sensors such as GM #13577429 (in-built mounting solution), 13577379 and 13577394 (both use its own mounting tabs).

TYPICAL INSTALLATION

GM #13577429 & #13577379 Sensors

1. Begin by removing one of the end pieces by unscrewing the two M5 x 35mm socket head cap screws.



Figure 1

2. Slide one side of the flex fuel sensor inlets into the bore with the 2x internal o-rings as shown in figure 2. Ensure these internal o-rings are lubricated prior.

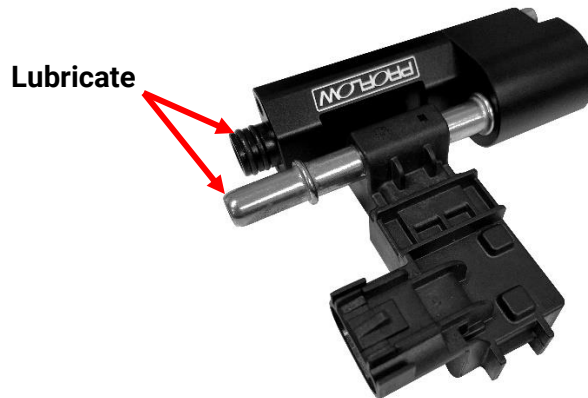


Figure 2

3. Push on the adaptor end previously removed over the outlet of the sensor and into the centre section of the adaptor (figure 3). Ensure all o-rings are lubricated.
4. Re-fasten the M5 x 35mm socket head cap screws and torque all screws to 5 Nm.



Figure 3

5. Using the supplied M6 socket head cap screws, mount the assembly using the sensor's mounting points to a secure spot on the vehicle with the appropriate nuts and washers.

#13577429 Sensor ONLY

6. Mount the bracket to the bottom of the centre section using the supplied M6 countersunk screws. This provides a mounting solution for this specific sensor.

GM # 13577394 Sensor

1. For this flex fuel sensor, the width of the SAE quick connect tubes are too wide. The required width must be 3.75" (95mm).
2. Measure and mark the correct width on the sensor inlets. The SAE bead locks will be removed in this process.
3. Use a hacksaw or equivalent method to cut the ends of the tube off. Please ensure to deburr the inner and outer diameter of the tube before proceeding.
4. The sensor is now ready to be assembled with the billet adaptor as per instructions of GM #13577379.