PERFORMAX

TRANSMISSION PRESSURE GAUGE AND SENSOR INSTALLATION INSTRUCTIONS

ICON KEY
CAUTION
Tools may be required
Shown in picture

1 Disconnect batteries. Do not reconnect battery power until system is fully configured to avoid risk of shock or fire.

2 Install Electronic Signal Processor (ESP) and ESP harness according to instructions.

3 Connect the Temperature Sensor Harness to the ESP Harness as follows:

a. Remove plugs from cavities 10, 11 and 12 of the connector C (green) of the ESP.
b. Using a pair of needle nose pliers, pull the orange wedge lock out of connector C.
c. Insert the terminal from the red wire (5V sensor supply output) into cavity 10 of connector C on the ESP, pushing until it snaps into connector C.
d. Insert the terminal from the black wire (sensor supply ground) into cavity 11 of connector C on the ESP, pushing until it snaps into connector C.
e. Insert the terminal from the green wire into cavity 12 (sensor input) of connector C on the ESP, pushing it until it snaps in place.
f. Note: Terminals will be close to flush with the top of the connector when fully seated.
g. A firm pull of the wire will confirm whether they are properly seated.
h. Push the orange wedge lock back into position. If any of the wires are not fully seated, the wedge lock will not insert into position.
i. Reconnect connector C (green) to the ESP.

Figure 1: Connector C top and bottom view. Shown with plugs and wedge-lock installed.

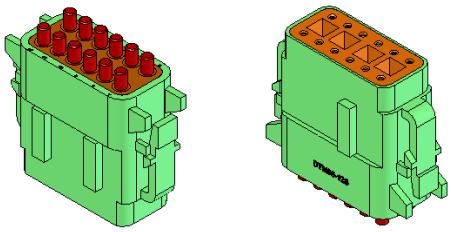
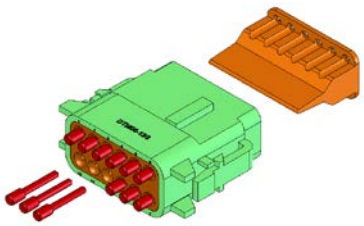


Figure 2: Remove plugs and wedge-lock as shown. Wedge-lock is replaced once wires are positioned properly.



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4 Find a location where transmission pressure can be measured, such as a test port on the transmission. This may require adapter fittings to accommodate the ⅛" NPTF sensor threads (ISSPRO R78844, R78877, and R78888 may be purchased separately).

Only use this sensor & gauge for applications that will not exceed 400 psi of pressure.

5 Install the new sensor. Pressure sensor threads are ⅛" NPT/NPTF.

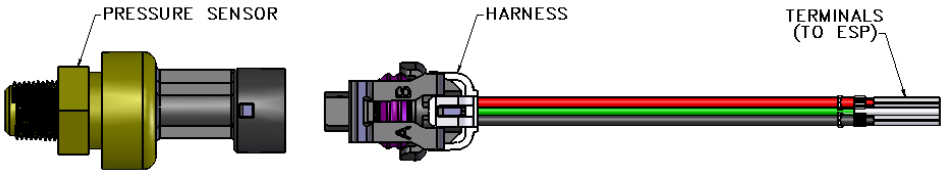
Many Emission Control Devices are connected to temperature sensors or switches. Be careful not to disable these when installing a sensor.

6 If leakage occurs at the sensor, tighten one-quarter turn at a time until leakage stops. If necessary, thread sealant such as Teflon tape may be used.

When using a torque wrench, tighten approximately 1.69nm/15 lb-in. or slightly more, if leakage occurs. Do not use the body of the sensor to tighten! Use only the hex and the correct wrench. Do not over tighten!

7 Connect the pressure sensor to the pressure sensor harness by pressing the connector into the slot.

Figure 3: Pressure sensor and harness.



8 Connect transmission pressure gauge to the ESP. (See ESP instructions for more details on how to do this). Note: If drilling a mounting hole in a panel to mount this gauge, the hole size should be 2.040".

9 Secure all wiring so that it does not interfere with moving parts or chafe on sharp edges. This may be accomplished by routing the wiring within the factory wire harness sheath, using wire ties and sheathing, and using appropriate grommets when passing through the firewall.

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