OIL 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 Find a location where oil pressure can be measured, such as a test port near the oil filter, or on the HPOP reservoir on a system with HEUI injection. This may require adapter fittings to accommodate the ⅛" NPTF sensor threads (ISSPRO R78844, R78877, and R78888 may be purchased separately).

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

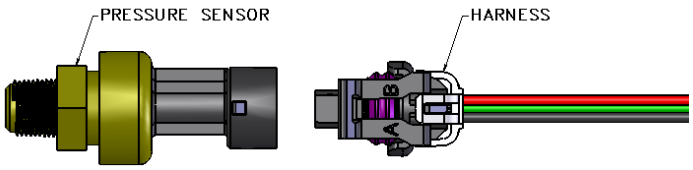
Many Emission Control Devices are connected to OEM sensors or switches. Be careful not to disable these when installing a sensor.

4 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!

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

Figure 1: Pressure sensor and harness.



6 Route the sensor harness to the intended gauge mounting location, using grommets as appropriate when passing through the firewall. Connect the sensor harness to the gauge connector as follows:

7 Trim wires to desired length. The red/yellow, green, and black wires are the +5V, sensor, and ground connection, and connect to cavities 4, 5, and 6 of the orange connector respectively (see Figure 2).

Install the three wires into the insulation displacement connector (orange connector). Carefully lay the wires across the connector cavities, hold the connector steady with a vice or pliers and press the wires into each cavity with a small screwdriver. Each wire must be pushed completely to the bottom of its groove in the connector, to ensure a good electrical connection. Note that the 3 sensor harness wires run only between the gauge and the sensor, not connecting to any other power or ground.

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8 An optional wiring harness is available (ISSPRO P/N R72022) to simplify wiring and provide a potentiometer for reducing the brightness of the gauge lights while still following the vehicle dimmer level. If this dimming function is not required, you can substitute your own 18 gauge wires in place of the harness, using a single wire in place of the orange and orange/black wires. Connect one end of each of these wires as follows:

- *Ground* – The black wire should connect to a clean ground on the vehicle such as the battery negative terminal or a factory ground bolt.
- *Ignition* – The red wire should be connected to one wire of the included fuse holder using the included crimp splice, and the other wire of the fuse holder connected to a circuit that switches on with the key switch. Install the included 1 amp fuse in the fuse holder.

  Use only 1 amp fuses, higher amperage fuses may cause damage to the gauge or to the vehicle.
- *Dimmer* – Connect the orange/black wire to the factory gauge dimmer circuit by either tapping into the in-cab fuse block or by connecting directly to the wire running from the dimmer on the headlight switch.

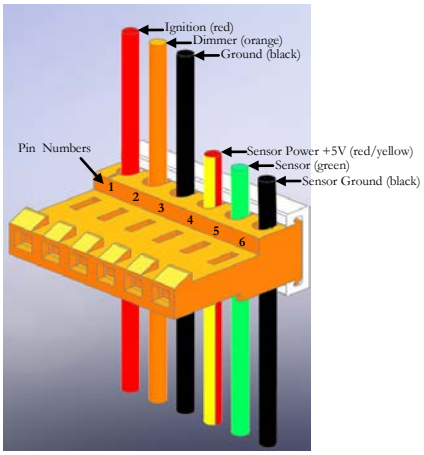


Figure 2: Connector.

1	Red	Ignition
2	Orange	Dimmer
3	Black	Ground
4	Red/Yellow	Sensor Power +5V
5	Green	Sensor
6	Black	Sensor Ground

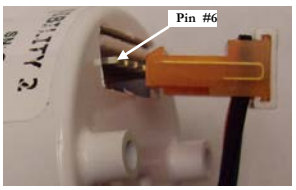
Slide the white dust cover over the orange connector once the wires are securely installed.

Connect the red, orange and black wires to the orange connector as described above, in positions 1, 2, and 3 respectively. Slide the white dust cover over the orange connector once the wires are securely installed. **NOTE**: The gauge backlighting will only illuminate if both the ignition supply AND the backlighting circuits are on.

The lighting harness is designed to be used with Performax EV² gauges. DO NOT attempt to use this harness and potentiometer with any other gauge types.

OPTIONAL: Daisy Chain Your Gauges – If multiple Performax EV^2 gauges are being installed in one location (such as a pod), you may use a single set of the Ignition, Ground, and Dimmer wires to connect all of the gauges. Simply pass the wires from one orange connector to the next one in a "daisy chain" configuration. A single 1-amp fuse will protect up to 12 EV^2 gauges.

9 Install the connector onto the back of the gauge (angled portion on end of connector pointing up as shown in photo), and then secure the gauge in its mounting location. If drilling a mounting hole in a panel to mount this gauge, the hole size should be 2.040". Mounting Kit R19999 is available for larger mounting holes up to 2.200".



NOTE!!! The orange connector MUST be installed in the direction shown. It is possible to force it in backwards far enough to make an electrical connection which may damage the gauge!

10 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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