

# EV3 SEALED HPOP (HIGH PRESSURE OIL PUMP) PRESSURE GAUGE AND WIRE HARNESS INSTALLATION INSTRUCTIONS



## ICON KEY

**CAUTION**   Tools may be required   Shown in picture

- Disconnect batteries.** Do not reconnect battery power until system is fully configured to avoid risk of shock or fire.
- Find the factory Injection Control Pressure (ICP) sensor and disconnect its harness connector. On 7.3L engines, The ICP sensor should be mounted into the driver's side head near the fuel bowl, in the "V" portion of the engine. On 6.0L engines, it is on the passenger's side valve cover.
- Route the ISSPRO HPOP Harness up to the ICP sensor. One end of the ISSPRO HPOP Harness will have a connector similar to the one you just unplugged from the ICP sensor. Plug this connector into the ICP sensor and plug the truck harness connector (which you disconnected in step #2) into the remaining connection on the HPOP harness.  
 The ICP sensor is critical to engine operation. If wire insulation is damaged and sensor wires shorted out, engine damage can result. Retain and protect all wiring.
- If installing other items that connect to the ICP sensor (such as a power adding module), connect the ISSPRO HPOP Harness directly to the ICP sensor, and then connect the power module's harness between the ISSPRO harness and the truck harness. If using a purely resistive load to modify the output of the ICP sensor (known commonly as a "10K Mod"), the ISSPRO HPOP gauge will display the same modified (incorrect) output that the PCM is seeing. If a true HPOP reading is desired while using a 10K Mod, install a second ICP sensor on the engine, and connect it to the gauge using ISSPRO harness P/N 9CAA607589 instead of the ISSPRO HPOP harness included with the gauge, with the red/yellow wire in position #4 on the connector.
- Route the pressure sensor harness wires to and through the firewall to the intended gauge location. 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.

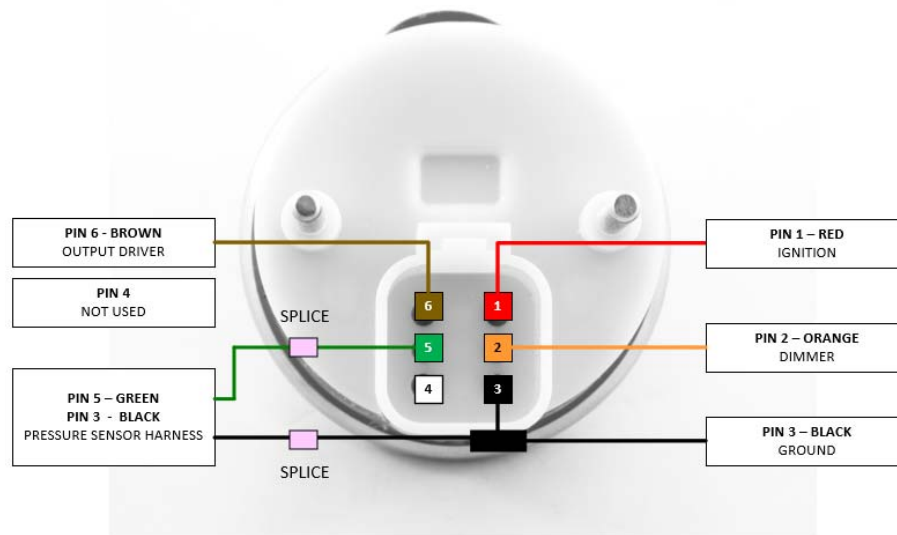
## 6 GAUGE INSTALLATION

Connect the 6-pin sealed connector to the back of the gauge (with the gauge near its final mounting location), then route the red, orange, and black wires with cut ends towards the fuse panel or other area where the power, dimmer, and ground connections will be made, leaving enough length at the 6-pin connector to allow you to remove the gauge from the mount without unplugging it from the gauge.



Form No. IS287 (Rev. A 06/11/2024)

Wires are connected as follows:



**PIN 1 – Red: Ignition;** Connect 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 fuse may cause damage to the gauge or to the vehicle.**

**PIN 2 – Orange: Dimmer;** Connect 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. **NOTE:** The gauge backlighting will only illuminate if both the ignition supply AND the backlighting circuits are on

**PIN 3 – Black: Ground;** Connect 1 wire to clean ground on the vehicle such as the battery negative terminal or a factory ground bolt and splice the other wire to the black pressure sensor harness lead wire.

**PIN 4 – Not used.**

**PIN 5 – Green: Pressure Sensor;** Splice to the Green pressure harness wire

**PIN 6 – Brown; Programmable Output Driver** can switch devices that draw up to 1.3 Amps (60V) so a 1A (1 Amp) fuse should be used. **Devices** include customer supplied Relay Coils, Solenoids, Warning Buzzers, and Lamps. These devices are not included in gauge kits. The Output Driver activates these devices at a programmed level. When wiring to polarized devices always wire pin 6 to the negative side of the device.

**For battery connection:** Wire pin 6 to one side of the **device (see above)** with the other side of the device wired to a positive battery connection fused for no more than 1A.

**For ignition connection:** Wire pin 6 to one side of the **device (see above)** with the other side of the device wired to a connection that switches on with the key switch fused for no more than 1A.

## 9

### EV3 ATTRIBUTE PROGRAMMER INSTALLATION

**Android** - Open the Google Play Store application. In the Search box, type “Attribute Programmer”. Select the **EV3 Attribute Programmer** from ISSPRO and install it on your device.

**iOS (Apple)** - Open the App Store. In the Search box, type “Attribute Programmer”. Select the **EV3 Attribute Programmer** from ISSPRO and install it on your device.

ONCE INSTALLED - APP INSTRUCTIONS ARE LOCATED IN “EXTRAS”