

EV3 SEALED FUEL RAIL PRESSURE GAUGE AND SENSOR INSTALLATION INSTRUCTIONS



ICON KEY

CAUTION Tools may be required Shown in picture

1 RAIL PRESSURE SENSOR INSTALLATION

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

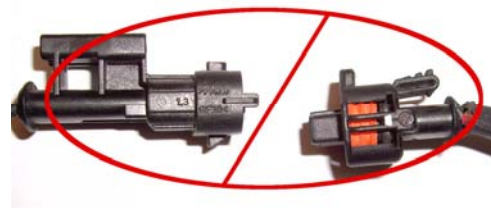
2 Find the factory Rail Pressure sensor and disconnect its harness connector.

3 HARNESS 9CAA9609453-002 (Dodge 2003-2007.5, GM/Duramax 2001-2010)

Route the ISSPRO Rail Pressure harness up to the Rail Pressure sensor. One end of the ISSPRO Rail Pressure Harness will have a connector like the one you just unplugged from the Rail Pressure sensor. Plug this connector into the Rail Pressure sensor and plug the truck harness connector (which you disconnected in step #2) into the remaining connection on the Rail Pressure harness. Be sure on both harness connections that the connector with the latch is oriented so that its latch engages the angled block on the mating connector, not the non-angled block on the other side of the connector.



Correct connection



Incorrect connection

HARNESS 9CAA609453-009 (2013 THRU 2018 DODGE CUMMINS)

One end of the ISSPRO Rail Pressure Harness will have a connector like the one you just unplugged from the Rail Pressure sensor. Plug this connector into the Rail Pressure sensor and plug the truck harness connector (which you disconnected in step #2) into the remaining connection on the Rail Pressure harness.



The Rail Pressure sensor is critical to engine operation. If the harness is connected incorrectly or wire insulation is damaged and sensor wires are shorted out, engine damage can result. Retain and protect all wiring.

4 If installing other items that connect to the Rail Pressure sensor, such as a power-adding module, connect the ISSPRO Rail Pressure Harness directly to the Rail Pressure sensor, then connect the power module's harness between the ISSPRO harness and the truck harness.

5 Route the separate black & green wires of the sensor harness to the intended gauge mounting location, using grommets as appropriate when passing through the firewall.

Form No. IS265 (Rev. D 06/11/2024)

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GAUGE INSTALLATION

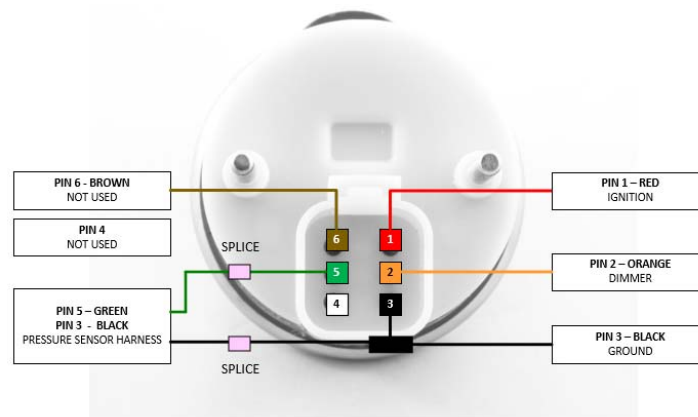
Connect the 6-pin sealed connector to the back of the gauge (with the gauge near its final mounting location), then route the sensor portion of the harness towards the firewall and the red, orange, black and brown wires towards the fuse panel or other area where the power, dimmer, ground and optional output relay 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.



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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 AND the dimmer circuits are on.

PIN 3 – Black: Ground & Sensor Ground: Connect one wire to a clean ground on the vehicle such as the battery negative terminal or a factory ground bolt. Splice the second black wire to the black sensor lead wire.

PIN 5 – Green: Sensor Signal: Splice to green sensor 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.

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Secure all wiring so that it does not interfere with moving parts or chafe on sharp edges.

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.

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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”

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