





AMMETER GAUGE AND SENSOR INSTALLATION INSTRUCTIONS



-  Disconnect batteries. Do not reconnect battery power until system is fully configured to avoid risk of shock or fire.
- Find a location to mount the current sensor where the wires/cables carrying the current to be measured can pass through the hole in the sensor. Orient the sensor with the negative end of the wire or cable in the direction of the tip of the arrow on the label, and the positive end on the side of the sensor with the harness connection. Sensor may be secured to the cable with zip-type wire ties to limit movement.

ICON KEY	
	CAUTION
	Tools may be required
	Shown in picture

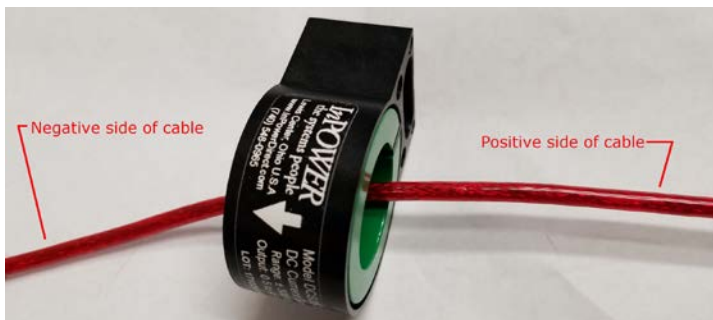


Figure 1

- Route the ISSPRO current sensor harness to the current sensor and plug it into the sensor.

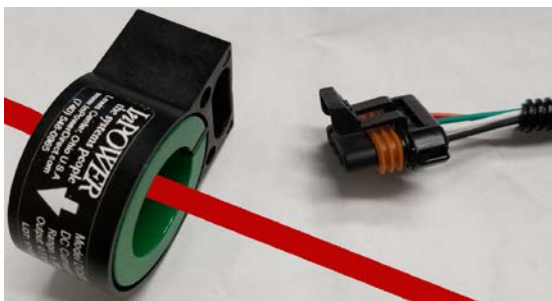



Figure 2




Figure 3


- Route the sensor harness as follows, using grommets as appropriate when passing through the firewall.
Red/Yellow – route to the fuse holder which will be tied into the ignition circuit listed below (crimp with red wire from gauge harness into one side of supplied crimp splice).
Green – route to gauge location, to be connected in step #6 below (to pin #5 of orange connector)
White – route to gauge location, to be connected in step #6 below (to pin #6 of orange connector)
Black - connect to a clean ground on the vehicle such as the battery negative terminal or a factory ground bolt

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5  Trim the sensor harness wires to length, leaving enough length to allow the gauge to be pulled from the pod or mounting location without disconnecting the connector.

6  Install the **green** and **white** sensor harness wires along with the individual **red**, **orange** and **black** wires into the orange insulation displacement connector (see Fig.4 for positions), using the included wire insertion tool (R72023). Follow the directions with the tool. **DO NOT** strip the wire ends, the connector will pierce the wire insulation, and the insulation helps hold the wire into the connector. Each wire must be pushed completely to the bottom of its groove in the connector to ensure a good electrical connection. Connect the other end of each of the remaining wires as follows:

- *Ignition* – The **red** wire should be connected to one wire of the included fuse holder using the included crimp splice, double-crimping it with the **red/yellow** wire from the sensor harness in step #4, 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**

- *Dimmer* – Connect the **orange** 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.
- *Ground* – The **black** wire in pin #3 should connect to a clean ground on the vehicle such as the battery negative terminal or a factory ground bolt.

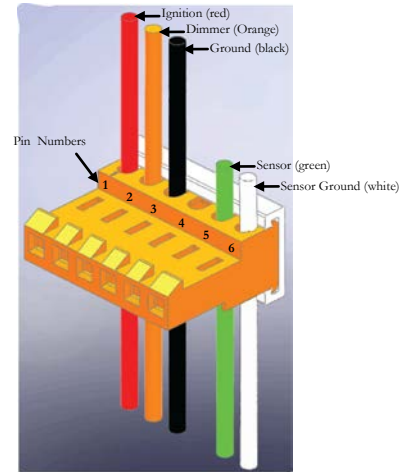


Figure 4: Connector.

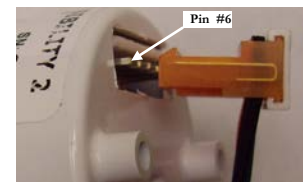
Pin	Wire Color	Function
1	Red	Ignition
2	Orange	Dimmer
3	Black	Ground
4	Empty	
5	Green	Sensor
6	White	Sensor Ground

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.

OPTIONAL: Daisy Chain Your Gauges – If multiple EV² gauges are being installed in one location (such as a pod), you may use a single set of the Ignition, Dimmer, and Ground 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 EV² gauges.

7 **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!

8  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.