

EV Electrical Gauge Installation Instruction

Installation (see Diagram on reverse)

1. Disconnect the negative (-) battery cable.
2. Mount gauge to dash in a 2 5/8" hole for 2 5/8" gauges, 2 1/16" hole for 2 1/16" gauges, or 1/32 larger than gauge case diameter. Insert gauge into hole, connect all wire terminations (including lighting), then secure with supplied mounting hardware.
3. Check voltage printed on gauge case to ensure it is correct for your application.

270° Full Sweep Temperature and Pressure Gauges

1. Determine module mounting location, preferably inside firewall (passenger compartment) for protection from engine compartment environment. Before selecting location, check that the cable harness length is sufficient to reach both gauge and sender. If mounting with screws (not included), drill holes to match case mounting holes (11/64"). If module will be mounted with double-sided adhesive tape (not included), surface must be free of dirt and grease before mounting, then mount module to pre-selected location. Double sided tape is not recommended for warm climates.
2. Install sender. (Use a cut-away socket in tight or recessed locations.) Route sender wires through existing hole in firewall or drill a 3/4" dia. Hole and use a grommet (not included) to protect wires. Connect wires to sender, once sending unit is installed.
3. Locate a clean chassis ground near the module. Ground module using black 18-gauge wire with lug terminal (wire not included).
4. Locate a terminal on vehicle's fuse panel to supply 12v ignition power to the module, using 18 gauge red wire (not included).
5. Connect module harness to gauge.
6. Use wire ties to hold wire assemblies together, along vehicle chassis.
7. Reconnect negative (-) battery cable.

Tech Tips

1. If proper module location cannot be found (protected from engine compartment), use electrical grade R.T.V. silicone to seal case around terminal block assembly.
2. To insure proper operation, check that the terminal block terminations are free from contaminants and are securely fastened for good electrical connections.
3. Preferred electrical connection is direct to ignition source protected by a 1 Amp fuse and switch.

Note: Gauge to be used only with original module to achieve accurate gauge readings (calibrated together).

90° Electrical Gauges

Gauges have three terminal studs, one marked "+" for system voltage, one marked "S" to be used to connect to the appropriate sending unit, and one marked "-" to be connected to a clean chassis ground. Exception: ammeter has only two terminals (see diagram). Do not connect sending unit to system voltage terminal, damage can occur!

Troubleshooting

Electrical gauges that show full scale reading upon installation: Remove sending unit wire at gauge. Gauge pointer should return to left side of scale. Solution: sending unit or wire is shorted to ground.

Electrical gauges that do not operate (no reading): Check leads, if good then ground sending unit wire to ground terminal. Gauge pointer should go to full scale. If it does, sending unit is not functional. If it does not, gauge is not functional.

Wiring

Use 18 AWG wire and eyelet terminals (not included). Ammeters require at least a 10 AWG wire. **Note:** 18 AWG wire may be used to extend module-to-gauge distance for pillar-mount installation of Full Sweep pressure and temperature gauges.

Lighting

Gauges have one or two twist-base lamp assemblies with two ¼" blade terminations for easy hookup. Attach one wire from blade terminal to dash lights or dash light dimmer switch and second wire to ground. Either wire can be connected to either blade terminal. If replacing a gauge with one wire, the second wire can be grounded to gauge ground terminal, or if a metal dash is involved, it can be fastened to a bracketed stud.

Limited Warranty

ISSPRO, Inc. warrants to the consumer that its analog gauge products will be free from defects in materials or workmanship for 12 months following purchase by the end user. Warranty is limited to replacement or credit at Isspro's option, of defective parts within the warranty period. Parts must be returned, prepaid, to the original purchase point for warranty inspection. This warranty does not apply to misapplication, misuse, negligence, or accident. This warranty is in lieu of any other expressed or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose, and of any other obligation on the part of the seller. In no event will the seller be liable for incidental or consequential damages.

TYPICAL GAUGE WIRING DIAGRAM

