



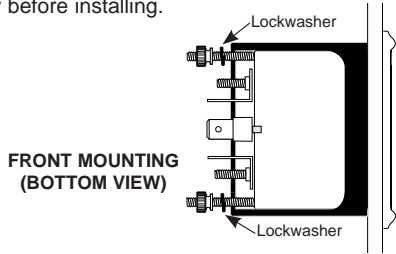
CAUTION FOR ALL GAUGE INSTALLATION:

As a safety precaution, the +12V wire attached to the positive I (+) terminal of the gauge should be fused before connecting to the positive (+) output of the ignition switch. We recommend using a 4 Amp 3 AG fast-acting type cartridge fuse in-line between the power supply source and the I (+) terminal on the gauge. NOTE: Some newer vehicles use electronic pressure and temperature sensors for engine control functions. Before removing the original sensor, we recommend that you contact your automotive dealer to be sure no critical functions will be disrupted. With pressure gauges it is beneficial to add a T-fitting to install your new gauge and to keep the warning light operational. This allows you to monitor the pressure and still have a warning light to indicate emergency conditions. NOTE: Disconnect negative (-) battery cable before installation.

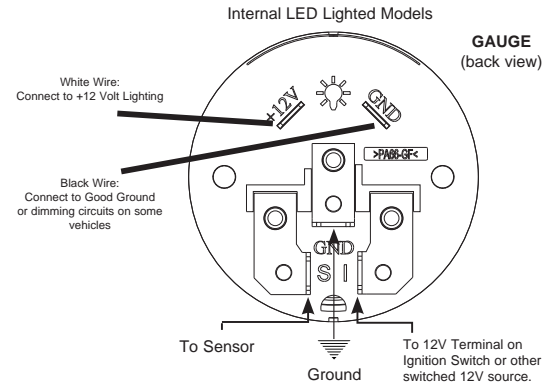
CAUTION: Do not touch ignition wire to the sensor (S) terminal on the back of gauge or the sensor may be damaged.

Mounting

52mm diameter gauges mount in 52.4mm hole. Fasten with brackets supplied as shown. (Connection wires are not included and must be supplied) To assure proper functioning of this instrument, please read guide thoroughly before installing.



Wiring



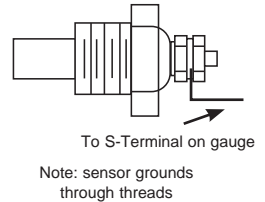
Temperature Gauges

1. Install temperature sensor.
 - A. Water Temp: Install temperature sensor (included). Purchase of additional fittings such as hose adapters may be required.
 - B. Oil & Gearbox Temp: Hole may have to be drilled and adapter nut (included) welded or brazed in pan. Be sure there is adequate internal clearance for nut and sensor. The sensor should automatically be grounded when installed. If not, proper ground connections should be made.
2. Route 18-gauge wire through firewall. If a new hole is drilled in the firewall a grommet is recommended. Connect one end to terminal on temperature sensor, and opposite end to sensor (S) terminal on back of gauge.
3. Route 18-gauge wire from center terminal GND (-) on back of gauge to good ground near sensor.
4. Connect wire from ignition switch to ignition (I) terminal on back of gauge.
5. Reconnect negative (-) battery cable.

Note: Sensor unit thread pitch is 1/8" NPT.

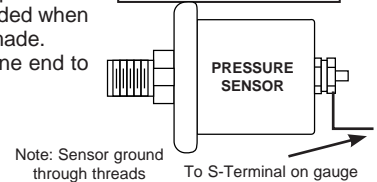


TEMPERATURE SENSOR



Pressure Gauges

1. Install sensor into pressure port of appropriate type. If unit is to be installed on a high vibration application such as a full race engine or engine capable of high RPM, it is strongly recommended that the sensor be remote mounted to either the footwell or firewall, to insulate from vibration. Failure to remote-locate pressure sensors on such an application could result in gauge failure and potential damage to vehicle and/or operator injury. Braided stainless steel lines can be used to accomplish this. Sensor features 1/8" NPT male fitting and comes with 1/4" NPT adapter or M10 x 1 adapter. The Sensor must be grounded when installed. If not, or if remote relocation of sensor is required, a ground connection to sensor "body" will need to be made.
2. Route 18-gauge wire through firewall. If a new hole is drilled in the firewall a grommet is recommended. Connect one end to terminal on pressure sensor, and opposite end to sensor (S) terminal on back of gauge.
3. Connect wire from center terminal GND (-) on back of gauge to good engine ground near sensor.
4. Connect wire from ignition switch to ignition (I) terminal on back of gauge.
5. Reconnect negative (-) battery cable.



Voltmeter

1. Using 18 gauge wire, route one length through firewall. If a new hole is drilled in the firewall a grommet is recommended. Attach one end to the negative GND (-) spade terminal on back of gauge, and the opposite end to a good engine ground. (See illustration at right).
2. Attach one length of wire to the positive I (+) terminal on back of gauge and opposite end to 12V terminal on ignition switch or other 12V power source.
3. Reconnect negative (-) battery cable.

