INSTRUCTIONS FOR THE INSTALLATION OF THE ELECTRIC TEMPERATURE, PRESSURE AND/OR FUEL GAUGE ARE CONTAINED HEREIN. USE IS RESTRICTED TO 12-VOLT NEGATIVE GROUND ELECTRICAL SYSTEMS. LIGHT BULB, IF SUPPLIED, IS 12 VOLT.

To Begin, go to #1

1. BEGIN HERE

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**DO NOT OVERTIGHTEN.** (Refer to Diagram C)

**Wiring the Gauge:**

**NOTE:** On all oil and water temperature gauges, 14-gauge wire is required for gauge ground; it must be a dedicated ground to insure gauge accuracy and to eliminate any erratic gauge readings.

1. Run wires from the instrument location through the firewall to:
   
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**Diagram D**

**Temperature/Pressure Gauge Wiring**

**Diagram E**

**Fuel Gauge Wiring**

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(Note: This is a “Limited Warranty” as defined by the Magnuson-Moss Warranty Act of 1975.)

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**Tools and Materials Needed For Installation:**

16 Gauge stranded, insulated wire
Non-insulated 1/4" spade connectors
2 1/6" or 2 1/4" hole saw
Drill and drill bit set
Half-round file
Tape measure or ruler
Small tools: wrench or nut driver, utility knife, pliers, etc.
Various engine adapters

**Diagram E**

**Fuel Gauge Wiring**

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**Fuel Gauge Wiring**
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<tr>
<th>Gauge</th>
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<th>Dimension &quot;B&quot;</th>
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<tbody>
<tr>
<td>Pro-Cockpit</td>
<td>2 5/8&quot; (66 mm)</td>
<td>2.77&quot; (70 mm)</td>
</tr>
<tr>
<td>All other</td>
<td>2 1/8&quot; (52 mm)</td>
<td>2.19&quot; (55.6 mm)</td>
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### Industrial and Series 1 Gauges

2. **CONTINUE HERE**

   c) a good, dedicated ground location (i.e., where the negative (–) battery pole is connected to the chassis of the vehicle); and

   d) from the instrument sender terminal to the terminal on the sending unit.

2. Connect the appropriate positive (+), ground (negative [–]), and signal wires to the gauge and gauge lamp socket as shown in Diagram D or E.

3. If you are using a VDO sender with a built-in warning contact terminal, run a wire (min. 16-gauge, stranded) from the sender terminal marked “WK” to one terminal on the warning light. (Diagram B)

Run another wire from the other warning light terminal to a switched ignition source.

**NOTE:** Do not use teflon tape on the sender threads which act as an electrical ground source for the unit.

Water temperature senders work best if they are installed near the thermostat housing. Oil temperature senders can be used to replace the manufacturer’s oil pan drain plug. The oil pressure sender is installed in the same location as the factory sender or warning light switch.

**Remember:** These gauges measure ohm resistance which is created by the sender. The ohm range of the sender and gauge MUST MATCH or the gauge will not be accurate. VDO sells many gauges which work with other manufacturer’s senders; but you must know the correct sender ohm range before you buy any of these gauges.

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**Diagram A**

Gauge dimensions

**Diagram B**

Wiring Warning Lights and Senders with Warning Indicator Terminals

*Pressure and/or Temperature Senders

**Diagram C**

Mounting using VDO Mounting Bracket or VDO Spin-Lok™ Clamp