VDO Limited Warranty

VDO Limited Warranty applies only to VDO products that were purchased from an authorized dealer. This warranty is limited to defects that occur during normal use and does not cover damages caused by negligence, misuse, or any other factors that are not within the control of VDO North America. VDO North America reserves the right to refuse replacement or repair in case of abuse or misuse of the product. This warranty is non-transferable and does not cover any labor costs associated with the installation or repair of the product.

Cylinder Head Temperature Gauge (with sender)

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

Tools and Materials Needed For Installation:
- 16 Gauge stranded, insulated wire
- Non-insulated ¼" spade connectors
- 2 ½" hole saw
- Drill and drill bit set
- Half-round file
- Tape measure or ruler
- Small tools: wrench or nut driver, utility knife, pliers, etc.

Diagram A

Proper installation of the cylinder head temperature sender

Diagram B

Proper wiring of the Cylinder Head Temperature Gauge

Diagram C

Proper installation of the cylinder head temperature sender

Diagram D

Proper wiring of the Cylinder Head Temperature Gauge

Parts List

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Cylinder Head Temperature Gauge (2 ½&quot; [52 mm] diameter)</td>
<td>1</td>
</tr>
<tr>
<td>2.</td>
<td>Lamp Socket (Push in, wedge-type)</td>
<td>1</td>
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<tr>
<td>3.</td>
<td>Light Bulb (12-volt / G.E. #158 or equivalent)</td>
<td>1</td>
</tr>
<tr>
<td>4.</td>
<td>VDO Spin-Lok™ Clamp or mounting bracket</td>
<td>1</td>
</tr>
<tr>
<td>5.</td>
<td>Installation Instructions</td>
<td>1</td>
</tr>
</tbody>
</table>

CAUTION!!
The bezel diameter is only a few millimeters larger than the gauge itself. With that in mind, measure and precisely mark the gauge location before cutting any holes!

CAUTION:
Read these instructions thoroughly before making installation. Do not deviate from assembly or wiring instructions. Always disconnect battery ground before making any electrical connections. If in doubt, please contact your dealer or VDO Instruments at (540) 665-2428.

Cylinder Head Temperature Gauge (with sender)

Installation Instructions

Sender Installation:
1. Select the cylinder where you will install the sender. Be sure to carefully follow the manufacturer's specifications.
2. Remove the spark plug.
3. Remove the compression ring from the spark plug.
4. Insert the spark plug through the sender ring and replace the spark plug and sender in the cylinder head (Diagram C). Care should be taken while tightening the spark plug. Do not place the sender wire near any hot engine exhaust components or moving parts.

Gauge Installation:
1. Select the location for the instrument and cut a 2 ½" hole. (Diagram A)
2. Insert the gauge and secure it with the

To Begin, go to #1
CONTINUE HERE

If you must bend the sender, do so as shown in the insert in Diagram C.

NOTE: If your vehicle uses tapered spark plugs, or if the sender won’t fit because of a recessed spark plug location, install the sender underneath any accessible head bolt. First put the bolt through a copper washer [large enough to cover the sender ring], then through the sender ring, then into the engine block.

1. Run wires (minimum 16-gauge, stranded) from the instrument location through the firewall to:
   a) the light switch (after the fuse in the fuse box);
   b) a good ground location (i.e., where the negative (−) battery pole is bolted to the chassis of the vehicle);
   c) the connector from the sender wire.
2. Run the extension cable (signal wires) from the back of the gauge to the location of the temperature sender.
3. Connect the appropriate positive (+), ground (negative [−]) wires to the gauge and gauge lamp socket as shown in Diagram D.
4. Push together the male and female socket halves (from the back of the gauge and from the sender). Secure any surplus extension wire underneath the dashboard. Avoid crimping the wire.

At this point, installation and wiring are complete. Start the engine to make sure the gauge and gauge light work properly.

Diagram A
Gauge dimensions

Diagram B
Proper mounting of the Cylinder Head Temperature Gauge

Diagram C
Insert showing how to bend the sender

Diagram D
Connection diagram for the gauge and sender

Diagram E
Details of the mounting bracket

Diagram F
Mounting hole dimensions