

Diagram D

Proper wiring of the VDO Outside Temperature Gauge

Siemens VDO Limited Warranty

VDO North America warrants all merchandise against defects in factory workmanship and materials for a period of 24 months after purchase. This warranty applies to the first retail purchaser and covers only those products exposed to normal use or service. Provisions of this warranty shall not apply to a VDO product used for a purpose for which it is not designed, or which has been altered in any way that would be detrimental to the performance or life of the product, or misapplication, misuse, negligence or accident. On any part or product found to be defective after examination by VDO North America, VDO North America will only repair or replace the merchandise through the original selling dealer or on a direct basis. VDO North America assumes no responsibility for diagnosis, removal and/or installation labor, loss of vehicle use, loss of time, inconvenience or any other consequential expenses. The warranties herein are in lieu of any other expressed or implied warranties, including any implied warranty of merchantability or fitness, and any other obligation on the part of VDO North America, or selling dealer.

(NOTE: This is a "Limited Warranty" as defined by the Magnuson-Moss Warranty Act of 1975.)

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1 BEGIN HERE

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 1-800-265-1818.

Gauge Installation:

1. Select the location where you will mount the gauge, and mark a center point.
2. Cut a 2 1/16" (52 mm) diameter hole for the outside temperature gauge. If the in-

strument is too snug, use a file to slightly enlarge the opening. (Diagram A)

3. Slip the VDO Spin-Lok™ Mounting Clamp over the back of the instrument. It's direction depends on the thickness of the panel (Diagram B). Tighten the clamp until the gauge can no longer be rotated by hand.

DO NOT OVERTIGHTEN.

Sensor Installation:

1. Mount the temperature sensor bracket under the front bumper somewhere near the outside edge.

Attach the sensor to its mounting bracket using the sensor mounting nut. (Diagram C)

[text continues at #2] ➔

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!**

Tools and Materials Needed For Installation:

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

Parts List

Item	Description	Quantity
1.	Outside Temperature Gauge (2 1/16" [52 mm] diameter)	1
2.	Lamp Socket (Push in, wedge-type)	1
3.	Light Bulb (12-volt / G.E. #158 or equivalent)	1
4.	VDO Spin-Lok™ Clamp or Mounting Bracket and nuts	1
5.	Installation Instructions	1

Siemens® VDO

Outside Temperature Gauge

Installation Instructions

Instruction Sheet #0 515 012 099
 Rev. 07/03

INSTRUCTIONS FOR THE INSTALLATION OF THE OUTSIDE TEMPERATURE 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

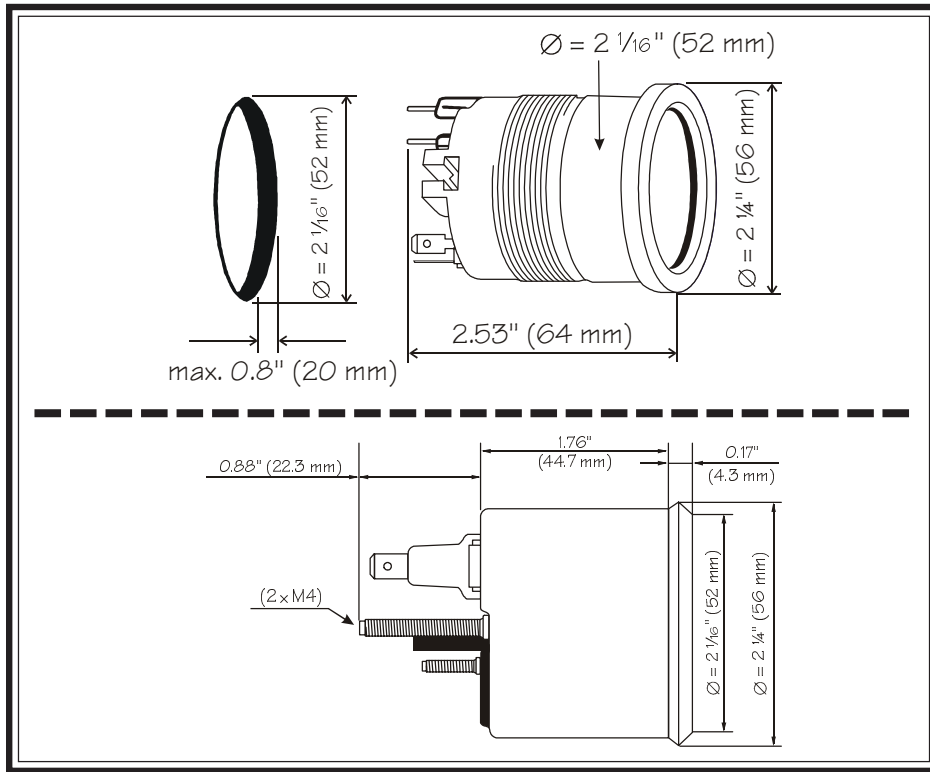


Diagram A
Gauge dimensions

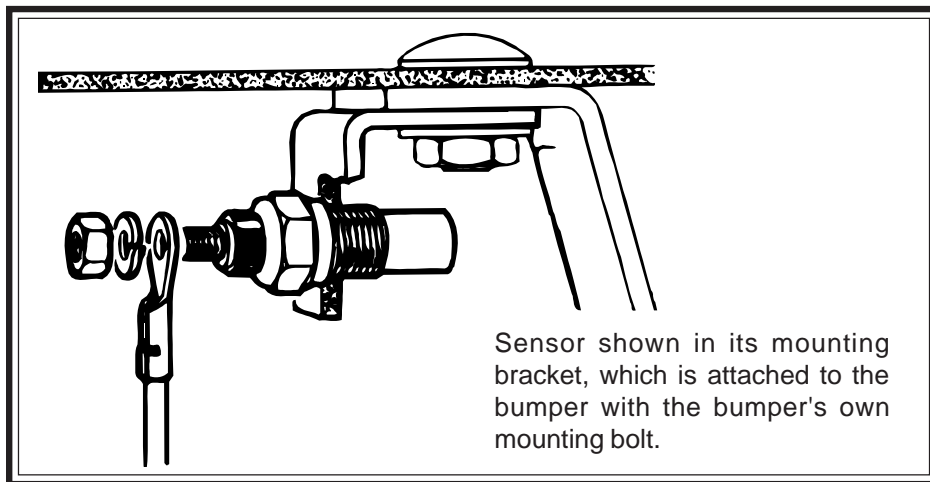


Diagram C

Proper mounting of the outside temperature sensor and bracket

2 CONTINUE HERE

Wiring the Temperature Gauge:

1. Run wires from the instrument location through the firewall to:
 - a) a positive (+), switched power source (i.e: after the fuse box and the ignition switch, or any other switch. This positive power source **MUST BE SWITCHED**, and must be protected with a fuse);
 - b) the light switch (also after the fuse in the fuse box); and
 - c) a good ground location .
 - d) Run the signal wire from the temperature sensor to the Outside

Temperature Gauge location.

2. Connect the positive (+), negative [ground] (-), and the signal wire from the sensor. (Diagram D)
 3. Connect the appropriate positive (+) and ground (negative [-]) wires to the terminals on the Outside Temperature Gauge lamp socket.
 4. The sender mounting unit must be grounded. Run a wire from the mounting bolt to a good chassis ground.
- At this point, the installation and wiring of the outside temperature gauge is complete. Turn on the ignition and the lights in the car and check to see that the instrument and light are working properly. If they aren't, re-check your wiring, referring to the wiring description in Diagram D.

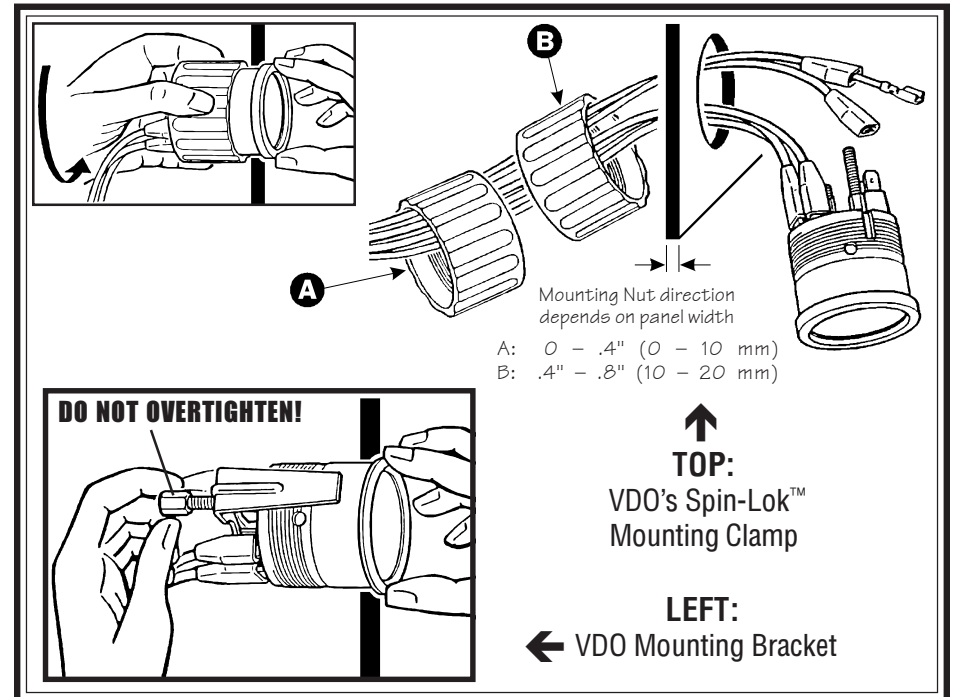


Diagram B

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