

# INSTALLATION INSTRUCTIONS

## FULL SWEEP ELECTRIC FUEL LEVEL

2650-1136-00 Rev. A



### QUESTIONS?

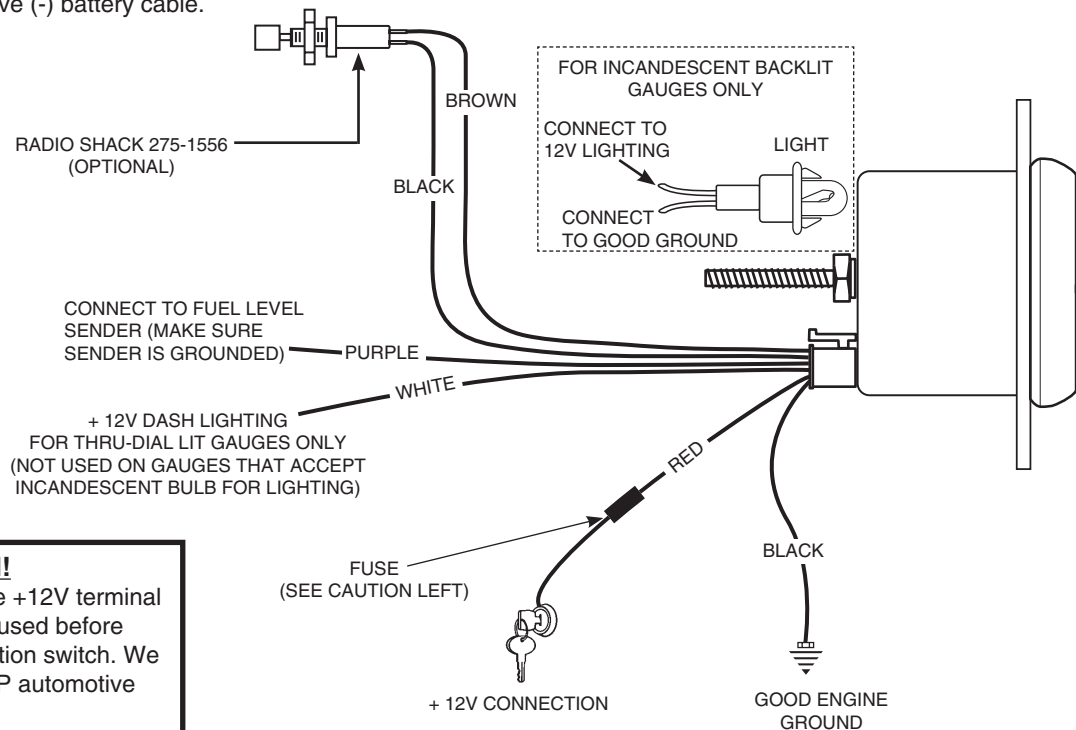
If after completely reading these instructions you have questions regarding the operation or installation of your instrument(s), please contact Auto Meter Technical Service at 815-248-6357.

You may also email us at [service@autometer.com](mailto:service@autometer.com).

Additional information can also be found at <http://www.autometer.com>

### Installation

1. Check that you have all parts required for installation, and that the engine is cool.
2. Disconnect the negative (-) battery cable.
3. Gauge mounts in a  $2\frac{5}{8}$ " hole for  $2\frac{5}{8}$ " gauges, and a  $2\frac{1}{16}$ " hole for  $2\frac{1}{16}$ " gauges.
4. Connect the purple sender wire to the fuel level sender. Existing wires may be used, or route the purple sender wire to the fuel tank.  
(The stock fuel level gauge, if equipped, must be disconnected.)
5. Connect the white wire to dash lighting or switchable 12v light source.
6. Connect one of the black wires to a good ground. (Either black wire, does not matter which one)
7. Connect the red power wire to a switched +12v source.
8. Reconnect the negative (-) battery cable.



#### CAUTION!

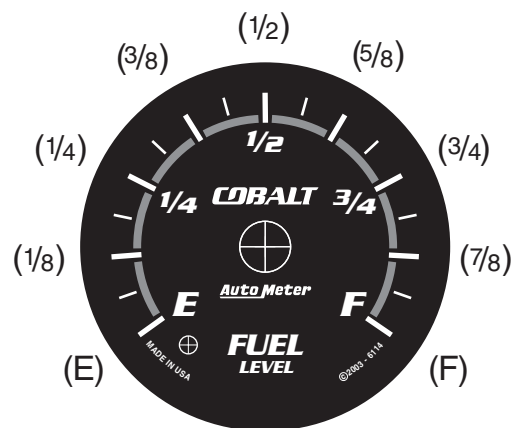
As a safety precaution, the +12V terminal of this product should be fused before connecting to the 12V ignition switch. We recommend using a 3 AMP automotive type fuse.

### Setting the Sender Type

1. The brown and black wires are used to set the sender type. The gauge ships pre-programmed to read GM 0-90 ohm senders. If using a 0-90 ohm GM sender, separately insulate the ends of the brown and black wires with electrical tape, and coil them up under the dash.
2. If any other sender type is required, connect a Radio Shack 275-1556 or equivalent momentary switch to the black and brown wires (see illustration above), or alternately touch the stripped ends of the black and brown wires to simulate pushing the button.
3. Press and hold the button, and apply power to the gauge. The pointer will sweep back and forth stopping momentarily on each  $\frac{1}{8}$ -tank mark, indicating that the gauge is in sender select mode.
4. Allow the pointer to move to the appropriate location on the dial per the sender select chart (see next page), and release the pushbutton. The pointer can be bumped to the next position by momentarily pressing the button.
5. Remove power from the gauge to store the new sender type by turning off ignition switch.
6. Re-apply power to the gauge, and confirm that it reads the proper fuel level. If the proper fuel level is not read, return to step 3 and recalibrate. If the proper fuel level is still not indicated, perform Custom Sender Calibration.
7. Remove power from the gauge by turning off ignition switch.
8. Remove switch if used, and tape the ends of the brown and black wires, so they can not touch.
9. Coil the wires up under the dash.

## Sender Select Chart

Sender Type		Pointer Position
Ford Pre-'89, Chrysler	73 - 10 ohms	E
Ford '89 - 2009	16 - 158 ohms	1/8
GM Pre-'65	0 - 30 ohms	1/4
GM '65 - 1996*	0 - 90 ohms	3/8
Auto Meter Sender	240 - 33 ohms	1/2
Eclipse '90 - '02, Civic '88 - '00	107.5 - 7 ohms	5/8
Civic '01 - Present	131 -12 ohms	3/4
Custom Calibration (used only if your sender is not shown above)		7/8



\* Starting in '97, some GM models began using a different sender type.  
If this calibration is not accurate, perform Custom Sender Calibration as described below.

## Sender Error

If no sender is connected, the pointer will move to the empty position indicating an error. Approximately 4 seconds after the sender is connected, the pointer will move to the indicated fuel level and will resume normal operation.

## Power-Up

The pointer will move backward to the stop pin and then display actual fuel level. This procedure is an auto-calibration function and is performed on every power-up. While this test is being performed, the gauge may make a clicking sound. This is normal.

## Custom Sender Calibration **USED ONLY IF YOUR SENDER IS NOT OUTLINED IN THE SENDER SELECT CHART ABOVE**

The fuel level gauge can be custom calibrated to accurately display the output from any fuel level sender with an output between 0 and 270 ohms.

1. Make sure the fuel level sender is connected to the gauge and that the fuel tank is empty, or nearly empty, before proceeding.
2. Connect a Radio Shack 275-1556 momentary switch to the black and brown sender select wires (see illustration on previous page) or alternately, touch the stripped ends of the brown and black wires to simulate pressing the button.
3. Press and hold the button, and apply power to the gauge. The pointer will begin sweeping back and forth stopping momentarily on each  $\frac{1}{8}$ -tank mark indicating the gauge is in sender select mode. The pointer can be bumped to the next position by momentarily pressing the button. Allow the pointer to reach the  $\frac{7}{8}$ -tank position and release the button.
4. Remove power from the gauge to enter custom calibration mode.
5. Re-apply power to the gauge, the pointer will move to a position just below the empty mark, indicating that the empty calibration point can be entered.
6. With an empty, or nearly empty tank, capture the empty calibration point by momentarily (less than one second) pushing the switch. After approximately 1 second, the pointer will move to just above the full mark.
7. Fill the tank and momentarily press (less than one second) the sender select button or touch the brown and black wires to capture the full calibration point. After approximately one second, the gauge will reset, and begin reading fuel level per the custom calibration.
8. Confirm that the gauge reads the proper fuel level.
9. If the proper fuel level is read, go to step 10. If proper fuel level is not read, return to step 3 and recalibrate.
10. Remove switch if used, and tape the ends of the brown and black wires, so they can not touch.

## SERVICE

For service send your product to Auto Meter in a well packed shipping carton. Please include a note explaining what the problem is along with your phone number. If you are sending product back for Warranty adjustment, you must include a copy (or original) of your sales receipt from the place of purchase.


### 12 MONTH LIMITED WARRANTY

Auto Meter Products, Inc. warrants to the consumer that all Auto Meter High Performance products will be free from defects in material and workmanship for a period of twelve (12) months from date of the original purchase. Products that fail within this 12 month warranty period will be repaired or replaced at Auto Meter's option to the consumer, when it is determined by Auto Meter Products, Inc. that the product failed due to defects in material or workmanship. This warranty is limited to the repair or replacement of parts in the Auto Meter instruments. In no event shall this warranty exceed the original purchase price of the Auto Meter instruments nor shall Auto Meter Products, Inc. be responsible for special, incidental or consequential damages or costs incurred due to the failure of this product. Warranty claims to Auto Meter must be transportation prepaid and accompanied with dated proof of purchase. This warranty applies only to the original purchaser of product and is non-transferable. All implied warranties shall be limited in duration to the said 12 month warranty period. Breaking the instrument seal, improper use or installation, accident, water damage, abuse, unauthorized repairs or alterations voids this warranty. Auto Meter Products, Inc. disclaims any liability for consequential damages due to breach of any written or implied warranty on all products manufactured by Auto Meter.

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<http://www.autometer.com>

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