



INSTALLATION INSTRUCTIONS

Decometer

2650-1592-00 Rev. A

**FOR USE WITH
GASOLINE
ENGINES ONLY**



Congratulations on your purchase of the ecometer by Auto Meter. The ecometer is designed to give you real time feedback about how your driving style and decisions impact your vehicle's fuel economy performance. You will receive this feedback from two sources; a digital readout and an ecograph will show you how efficiently you are utilizing the fuel in your vehicle.



NOTE TO CUSTOMERS: Ecometer will not function properly on vehicles operating on diesel fuel, vehicles equipped with Chrysler/Dodge MDS (multiple displacement system), or hybrid electric models. May cause interruption of Onstar in GM vehicles so equipped.

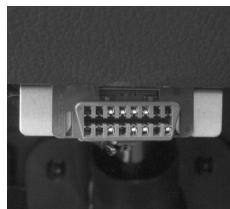
INSTALLATION

Installation of your ecometer is fast and easy. The ecometer utilizes a simple "plug-and-play" technology that will not require any drilling, special tools or complex steps. You can have your ecometer installed in less than one (1) minute following seven (7) simple steps.

1. Locate your vehicle's OBD port.



Your OBD port will be located under your dashboard on the steering wheel side.



All vehicles sold in the US since 1996 are equipped with a rectangular computer outlet called an OBD port. They typically look as shown above.

2. Align your ecometer plug with your vehicle's OBD port.



Your ecometer has a single cable. On the end of this cable you will find the ecometer plug.

3. While your vehicle is running, firmly push the ecometer plug into your vehicle's OBD port.



The ecometer will display either a numeric value or show **— — —** for up to 30 seconds while your ecometer searches for usable data. If after 30 seconds the ecometer has not found a usable signal it will power off and the display will go dark. If your ecometer does not display a value, repackage the unit and return it to your retailer for a refund, it is not compatible with your vehicle.

4. Select mounting location and peel off both ends of the dura-lock fastener tape. Place on bottom of ecometer base.



Your ecometer has an industrial mounting system that utilizes dura-lock fasteners. This material is located in your accessories kit. Peel off one side of the protective cover and press the sticky side of the dura-lock fastener to the bottom of the base of your ecometer.

Clean your dashboard (or other mounting area) with an alcohol swab or other form of degreaser, peel off the other protective film from the dura-lock fastener and push the ecometer down on your dashboard (or other mounting area) in the position that you want it to be. Leave in place for 2 to 3 minutes.

6. Index/twist dial face for optimal viewing angle.



The ecometer dial face will rotate 350° degrees so you can achieve proper dial alignment and viewing angle. To rotate the dial, hold the back of the ecometer with one hand while you carefully rotate the bezel of the dial with your other hand. The ecometer will stay in whatever position you have rotated or indexed the dial to.

5. Run the single cable under dash and up the side of your dashboard.



Be sure to secure the ecometer cable under your dashboard by utilizing wire ties, tape or other means. You do not want the wire to get in the way of your feet or pedal action. Run the ecometer cable up the side of your dashboard and push the cable into the trim to hide and secure.

INITIAL SET-UP

The ecometer taps into your vehicle's computer and picks up key sensor data that it utilizes to calculate your vehicle's fuel economy performance. Simply plug it in and the ecometer will start gathering data.

To set up the ecometer for your vehicle:

While your vehicle is running, hold down the left button while plugging the ecometer into your vehicle's OBD II port
The ecometer will display dSP, proceed to **Step 1**.



Step 1

Open your vehicle owner's manual or look on the emissions sticker under your hood to determine your vehicle engine's cubic displacement. The value is expressed in liters and you will enter this value. Typical sizes range from 1.6 to 6.0 liters of displacement.



Step 2

Press the right button. The default vehicle engine displacement will be displayed.



Step 3

Each push of the right button will advance the displacement value by 0.1, pressing and holding will move you through these values rapidly. (The scale will increase to 9.0 then cycle back to 0.1). Once the correct liter displacement is displayed on your ecometer, push the left button.



Step 4

* VERY IMPORTANT FOR ACCURATE DISPLAY OF ACTUAL MILAGE.

The display will then read EFF. Press the right button to display the percent of efficiency. The ecometer comes preset to 100% efficiency. See the fine tuning section for details on how and when you may need to adjust the preset efficiency values.



Step 5

Push the left button to exit this mode (see fine tuning).

MONITORING MODES

The ecometer offers four (4) monitoring modes

1. Instantaneous MPG



Under this mode the digital display (A) will show the real time fuel economy (miles per gallon) that your vehicle is currently achieving. The ecograph (B) will show you how efficiently you are utilizing the fuel in your vehicle. The more green bars, the more efficient.



You can select the target fuel economy (MPG) for your vehicle by pressing and holding the right (data input) button while in instantaneous MPG mode. The display will show a target MPG which will increase from 5 to 50 in increments of 5 MPG. Continue to press the right button until your target MPG is displayed, then release. This target MPG will then translate to an ecograph with the top green LED illuminated.

2. Average MPG



In this mode the ecometer will display the average fuel economy (miles per gallon) that your vehicle has achieved since you reset the counter. The ecometer can store and calculate your average fuel economy for up to 300,000 miles. So you can measure (and reset by pushing the right button while in average MPG mode) your average fuel economy for each tank, trip, or for the life of your car.



The ecograph (B) will show you how efficiently you are utilizing the fuel in your vehicle. The more green bars, the more efficient.

3. MPH Mode



The ecometer can also serve as a digital speedometer. In this mode your vehicle speed is displayed. You can utilize this mode in connection with the ecograph to determine at which speeds your vehicle is most efficient.



Pushing the right button while in MPH mode will display the maximum MPH (speed) the vehicle has reached. While displaying the maximum value, the MPH indicator will flash. To clear the maximum MPH value, push the right button a second time (within 5 seconds of entering maximum mode).

4. RPM Mode



The ecometer can also serve as a digital tachometer. In this mode, your vehicle's engine RPM is displayed. You can use this mode in conjunction with the ecograph to find out what gear and RPM level is most efficient for your vehicle.

Pushing the right button while in RPM mode will display the maximum RPM value that the vehicle has reached. While displaying the maximum value the RPM indicator will flash. To clear the maximum RPM value push the right button a second time (within 5 seconds of entering maximum mode).

5. Changing Modes

Press and release



To select which mode you want to display, simply press and release the left button.

6. Changing Display Brightness

Press and hold



The ecometer's brightness level can be easily changed by simply holding down the left (mode) button. The ecometer will cycle through four brightness levels.

Simply release the button when you reach your desired brightness level.

FINE TUNING YOUR MPG READING

In some cases (primarily with MAP band vehicles) you may need to fine tune the math formula used by the ecometer to calculate your vehicle's MPG. You will need to make this adjustment if you believe that the ecometer is calculating either too high or too low of an MPG value. You can verify performance by utilizing the following chart/process.



1. Fill up vehicle
2. Note mileage (beginning mileage)
3. Reset the ecometer average MPG by pushing the left button until AVG and MPG are illuminated. Then push the right button to clear the average MPG value. Dashes will be displayed for 1 second indicating that the value has been reset.
4. Drive your vehicle for at least 200 miles.
5. Fill up your vehicle again and note how many gallons were used. (Gallons)
6. Note your mileage (ending mileage)

	Beginning Mileage	Ending Mileage	Miles Driven	Gallons Used	MPG
Data Source	Input from Odometer (A)	Input from Odometer (B)	Calculate (A-B)	Input from Gas Pump (C)	Calculate (A-B) ÷ (C)
Example	37,250	37,500	250	8.5	250 ÷ 8.5 = 29.4
Test 1					
Test 2					
Test 3					

If your ecometer displays a different average MPG value than your calculated value, you can fine tune the ecometer to match the condition of your vehicle engine by following these steps.

1. Unplug the ecometer plug from your vehicle's OBD port
2. While pressing down the left button on the ecometer, push the ecometer plug back into the OBD port on your vehicle.
3. The display will show DSP.
4. Press the right button once, the current engine displacement should be displayed.
5. Press the left button once.
6. The display will show EFF.
7. Push the right button again and the display will change to a value. The ecometer comes pre-programmed from the factory at 100.
8. If the ecometer is calculating too low of a MPG value, push the right button and hold to increase the value to read between 100 and 140. After you have selected the new vehicle efficiency value, press the left button which will save this value and return to operating mode.
9. If the ecometer is calculating too high of a MPG value, push the right button and hold until the display shows a value between 60 and 100. The display will first move from 100 to 140, then from 140 to 60 and then start increasing.

Note: We recommend to only move the EFF value no more than a few numbers at a time. Below are some actual values achieved with some test vehicles that we used.

- '04 Pontiac Vibe with 206,000 miles, EFF was set to 95%
- '01 Dodge Neon with 160,000 miles, EFF was set to 93%
- '00 Chevy 2500 Truck with 120,000 miles, EFF was set to 96%

Your ecometer will show increases and decreases in milage while you are fine tuning your effiency. Fine tuning the efficiency is simply for displaying the proper (accurate) milage number.

10. Re-run the verification procedure. Do not forget to clear the average after changing the EFF rating.

NOTE: If you do not plan to use your vehicle for two weeks or more, please unplug your ecometer. Data will be stored in your ecometer.



If you have further questions you can contact the Auto Meter Technical Support Team at 866-248-6357 Monday through Friday. 7:00 AM to 5:00 PM Central Time. Or go to www.autometer.com for additional information.

The ecometer is manufactured in Sycamore, Illinois USA by skilled craftsmen. Thank you for your purchase and safe motoring!

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. Please specify when you need the product back. 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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