General Information

This instrument utilizes a single LCD to display odometer and two trip odometer mileages. Press the Trip button on the dial window to cycle between odometer, Trip 1, and Trip 2 displays on the LCD. Pressing and holding the Trip button for more than 2 seconds while viewing either Trip display will reset the trip currently being displayed. The odometer cannot be reset.

**NOTE:** The odometer on the speedometer portion of this instrument will show some mileage less than 5 miles (8km).
This is a result of factory testing to ensure optimum quality.

**TIP:** Auto Meter always recommends performing the calibration process for best speedometer accuracy.

**Speedometer Senders:**
The electronic speedometer in this instrument is designed to operate with an electrical speed sender. The speed sender signal range must be between 500 and 400,000 pulses/mile (310 and 248,500 pulses/km). Any speed sender or electronic module that meets the following two conditions can be used:

1. Pulse rate generated is proportional to vehicle speed.
2. Output voltage within the ranges listed below:
   a. Hall effect sender, 3 wire (5 to 16V)
   b. Sine wave generator, 2-wire (1.4 VAC min.)
   c. 5v Square Wave (CMOS)

Recommended – Auto Meter Hall effect sender, 3 wire, 16 pulses/revolution
5291 Standard 7/8” – 18 Thread
5292 Ford, plug in

Installation Tips

1. A 12 V power source MUST be used to power this speedometer. A 12V motorcycle battery is a good alternative for cars without batteries.
   A battery with minimum 5 amp hour rating is recommended.

2. Wherever possible, solder wire connections and avoid crimp-type connectors. This will minimize loose connections that could cause problems later.

3. Make sure you have a good ground to engine and battery negative terminal.

4. Wire installations should be neat and tied down to prevent tugging and fraying of wires at connections.
**Mounting**

1. Mount this instrument in a 3 3/8" dia. hole.
2. Cut a 3/8" dia. hole in the firewall for the speedometer wires. Place a rubber grommet in the hole and route the wires through the grommet to the engine compartment.
3. Connect the speedometer wires as shown in the wiring sections.
4. Secure the speedometer to the dashboard using the provided bracket and hardware.

**Auto Meter Hall-Effect senders (Square Wave)**
- Models 5291 (standard 7/8-18 thread) & 5292 (Ford Plug in Sensor), 3 wire sender, cruise.

**Most OEM style or Factory Installed, 2 wire senders (Sine Wave)**

**IMPORTANT**
When using most OEM/factory installed (2 wire) senders, you must calibrate the speedometer before it will function properly.

**Wiring**

**CAUTION!**
As a safety precaution, the power wire to this product should be fused before connecting it to the positive (+) side of the 12 VDC battery. We recommend using a 1 Amp fuse.

Use 20 AWG stranded or heavier wire for hook-up

**NOTE:** The speedometer signal output terminal (VSS) produces a +5 volt DC Square wave signal. This signal may be able to be used as a VSS signal with some OEM and aftermarket ECM's and cruise control units.
Operation
When power is first applied to the gauge, the speed display will show "888" and the odometer will display "0". Then it enters normal operation mode, the speed display will show "D" and the odometer will display the odometer or trip miles, depending on the state of the odometer (total miles or trip) when it was last turned off.

Testing
Once the instrument is mounted and wired into the vehicle (see preceding page), the instrument should be tested to verify that the electrical connections are working properly. First, watch the instrument's display as power is applied with the key in the accessory position. The speed display will show "888", then the speed display will show "D" and the odometer will show the current miles. This action verifies that power is properly connected to the instrument. Start engine. The vehicle should be driven some distance to verify the vehicle's Speed Sender (VSS) is connected properly and that the display indicates speed. If the display does not indicate speed, verify that the VSS is connected properly and that calibration has been performed.

Calibration (Electronic Speedometer calibration made easy!)
To calibrate your electronic speedometer:
1. With the power off, push and hold the trip button. While holding the button, start the vehicle and continue to hold the button until the display shows "PrE". You may now release the button.
2. Drive to the beginning of a pre-marked 2 mile (2 km if in km/h mode) distance and come to a stop. It does not matter how far away it is to get to this pre-marked 2 mile distance. DO NOT SHUT THE ENGINE OFF. Push and release the trip button. The display will show "rady".
3. Drive the 2 mile distance. The display will show "CAL" no matter what speed you drive. It will be normal to see the LCD display counting rapidly as it is receiving a speed signal. If you have to stop during the calibration, that is o.k. The speedometer will simply stop counting pulses during this time.
4. At the end of the 2 mile distance, come to a complete stop and push and release the trip button. The display will show "End", the odometer will show the calibrated PPM, and the calibration is stored. Then the display will show "0" and the odometer will show miles. You are now finished.

Remember the accuracy of your 2 mile distance will directly affect the accuracy of your speedometer.

The following list contains factors that can affect speedometer accuracy and how to minimize them during calibration.
1. Tire diameter increases slightly as vehicle speed increases. To minimize this error drive at an average speed of 45 MPH (175 KPH) during calibration.
2. Tire diameter increases slightly as tire air pressure increases. To minimize this error, check the vehicle's tires to ensure correct air pressure.
3. Tire diameter changes with vehicle load. Minimize this error by having an average load in the vehicle during calibration.
4. Minimize tire slippage error by not breaking traction during calibration.

Note: Always recalibrate your speedometer after any tire size or differential ratio change.

MODE
The MODE button allows the user to select between MPH and km/h (kilometers per hour) at any time, even while the vehicle is in motion. When in MPH mode, the arrow on the lower left side of the LCD odometer will be on. When in km/h mode, the arrow on the lower right side of the LCD odometer will be on. Changing modes will change the speed on the LCD display, as well as the accumulated odometer and trip values. It is important to note that this affects field calibration. If in MPH mode, field calibration is done by driving two miles. If in km/h mode, field calibration is done by driving two kilometers.

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 need it back immediately mark the outside of the box "RUSH REPAIR," and Auto Meter will service product within two days after receiving it. ($10.00 charge will be added to the cost of "RUSH REPAIR.") 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.

FOR SERVICE SEND TO: AUTO METER PRODUCTS, INC. 413 W. Elm St., Sycamore, IL 60178 USA (815) 899-0801