

3-3/8" IN-DASH ELECTRIC SPEEDOMETER INSTALLATION INSTRUCTIONS



PRECAUTIONS

Read instructions completely before installation.

Follow ALL safety precautions when working on vehicle.
Always wear safety glasses.

ALWAYS disconnect (-) negative battery cable before making electrical connections.

WIRING

Top Row, Left to Right

SIG – Signal

LAMP1 – Dash 12V (+) Lighting for White Backlight

GRD – Good Ground

LAMP2 – Dash 12V (+) Lighting for Amber Backlight

Bottom Row, Left to Right

ACC – 12V (+) Ignition

OUT – Not Used

CAL – Calibration/Trip Reset Button

BATT – 12V (+) Positive

Use 20 AWG stranded or heavier wire for installation.

CAUTION: As a safety precaution, the 12V (+) terminal of this product should be fused before connecting it to the 12V (+) ignition switch. We recommend using a 4 Amp, 3 AG fast-acting type cartridge fuse.

GENERAL INFORMATION

12-volt DC negative (-) ground electrical systems (10-20 VDC). This electronic speedometer comes pre-calibrated for 16000 pulses per mile. No further calibration is required if:

1. The transmission's speedometer cable take off is 1000 RPM at 60 MPH. Most vehicles meet this requirement. If the vehicle's tire size and/or differential ratio has changed, the speedometer needs to be recalibrated.
2. The vehicle is equipped with a 16-pulse/revolution sender.

If conditions 1 and 2 have not been met, calibrate the electric speedometer using the CALIBRATION process below.

SIGNAL INTERFACE

This speedometer is designed to work with both hall effect senders and magnetic pickup sensors. The input level can range from TTL 5V square wave (hall effect) to AC sine wave signals (magnetic pickup). Connect the signal output wire from the sender to the SIG terminal on the gauge.

Always consult the service manual for the vehicle you are working on to ensure proper connection. Incorrect hookup will damage the speedometer and void warranty. Please read these instructions carefully.

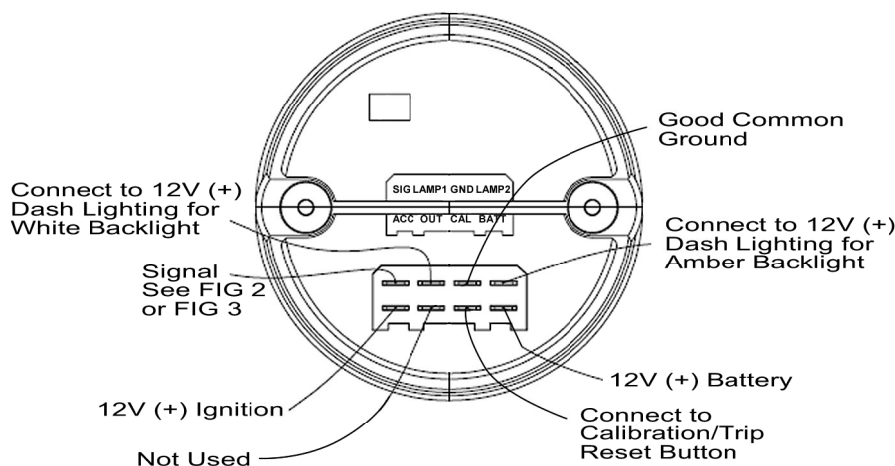


FIG 1

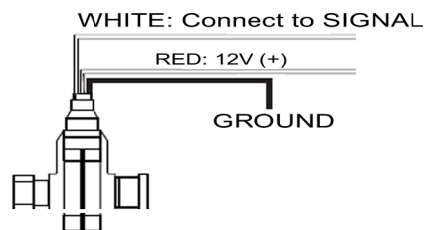


FIG 2. Hall Effect (3 Wire) Sender

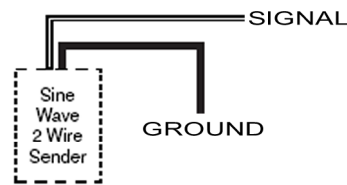


FIG 3. Sine Wave (2 Wire) Sender

CALIBRATION

1. With the ignition off, press and hold the CALIBRATION/TRIP button.
2. Turn the ignition on, then release the CALIBRATION/TRIP button.
3. The odometer/trip display will indicate CAL to verify that calibration mode has been accessed. The pointer will move to 50% scale.
4. Drive the vehicle EXACTLY one (1) measured mile then stop.
5. Press the CALIBRATION/TRIP button again to complete the calibration.
6. If the number of PPR is between 4,000 to 200,000 the odometer/trip display will indicate the actual pulses counted by the speedometer for five (5) seconds. This indicates a successful calibration. The speedometer will return to normal operation automatically.

If the number of PPR is below 4,000 at the end of one mile, the odometer/trip display will show zeros for five (5) seconds after the button is pressed. The calibration will not be updated, and the original calibration will be maintained. Correct the problem and recalibrate the speedometer.

If the number of PPR is above 200,000 at the end of one mile, the odometer/trip display will show zeros for five (5) seconds after the button is pressed. The calibration will not be updated, and the original calibration will be maintained. Correct the problem and recalibrate the speedometer.

CALIBRATION/TRIP RESET BUTTON INSTALLATION

The speedometer includes a remote mount calibration/trip reset button. Connect the black wire on the button to a common ground. Connect the red wire to the CAL terminal on the speedometer. Mount the remote button in a location that is easy to reach.

ODOMETER AND TRIP RESET OPERATION

The speedometer comes with an odometer (ODO) and two trip functions (TRIP 1 and TRIP 2). Press the CALIBRATION/TRIP button multiple times to cycle from ODO to TRIP 1 to TRIP 2. To reset a specific TRIP reading, hold the CALIBRATION/TRIP button for 3 seconds. The Odometer can not be reset.

THROUGH-THE-DIAL LIGHT COLOR

To get white backlighting, connect the LAMP1 wire to your 12V (+) light circuit. To get amber backlighting connect the LAMP2 connection to your 12V (+) light circuit.