

Classic Instruments

1954 – 1955

Chevy Truck

Installation Manual

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Welcome from the Team at Classic Instruments!

Our congratulations and appreciation for your purchase of one of the finest quality sets of specialty instruments ever produced! Your instrument set has been conceived, designed, and manufactured by Classic Instruments, Inc. in the U.S.A. Each instrument has been tested and certified for accuracy and quality before packaging and shipping.

For trouble-free installation and operation follow the instructions exactly as outlined. Your instruments were assembled to precise specifications and although each has a seven (7) year warranty covering defective parts and workmanship – this warranty will not cover instruments or sender units which have been installed incorrectly.

Follow our recommended procedures for installation and proper hookup to maintain the value and appearance of your instrument set during many future years of accurate and dependable service!

LIMITED WARRANTY

Classic Instruments, Inc. (CI) warrants to the original purchaser that any CI product manufactured or supplied by CI will be free from defects in material and workmanship under normal use and service for a period of seven (7) years from date of purchase.

Improper installation, use of sending units other than CI's or attempted repair or adjustments by other than CI shall void this warranty. Disassembly of any instruments or senders for whatever reason shall specifically void this warranty.

It's always easy to look to a part for an issue with your set. Before you conclude that a part may be bad, thoroughly check your work. Today's semiconductors and passive components have reached incredibly high reliability levels, but there is still room for error in our human construction skills. However, on rare occasions a sour part can slip through. Please be aware that testing can usually determine if the part was truly defective or damaged by assembly or usage. Don't be afraid of telling us that you "blew it", we're all human and in most cases, replacement parts are very reasonably priced.

Purchaser requesting a product to be repaired or replaced under warranty must first call CI at 1-800-575-0461 before the return of defective part. Send defective part to 826 Moll Drive, Boyne City, MI 49712, USA. Include a written description of the failure with defective part.

Purchaser agrees and accepts that under no circumstances will a warranty replacement be furnished until CI has first received, inspected, and tested the returned part.

All other warranties expressed or implied are hereby excluded including any implied warranty of merchandise and implied warranty of fitness for a particular purpose. The sole and exclusive remedy for breach of this warranty is limited to the replacement set forth above.

It is expressly agreed that there shall be no further remedy for consequential or other type of damage, including any claim for loss of profit, engine damage or injury.

TECHNICAL ASSISTANCE

1-800-575-0461

OR

Visit our website for the latest in gauge design and updates to our installation manual

www.classicinstruments.com

Mounting Gauges

- 1) Mounting hardware included with this kit:
 - a. 2 x chrome trim rings
 - b. 2 x "U" brackets for mounting gauges into trim rings
 - c. 6 x "Z" brackets for securing trim rings in the dash (3 brackets per trim ring)
 - d. 4 x nuts to secure "U" brackets to gauges



INCLUDED HARDWARE

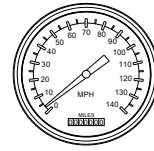
- 2) Begin by inserting each gauge through a trim ring (from the front) and securing them to the ring with the included "U" brackets and nuts.



GAUGE MOUNTED TO TRIM RING

- 3) Next, insert the gauges into the dash. Insert them from the back side of the dash. Use the included "Z" brackets (3 per gauge) to press the trim ring against the back of the dash. There are studs on the back of the dash that should go through the holes in the "Z" brackets. Use the nuts that were used on these studs to secure the brackets.

4 5/8" Speedometer Wiring [no included tachometer]

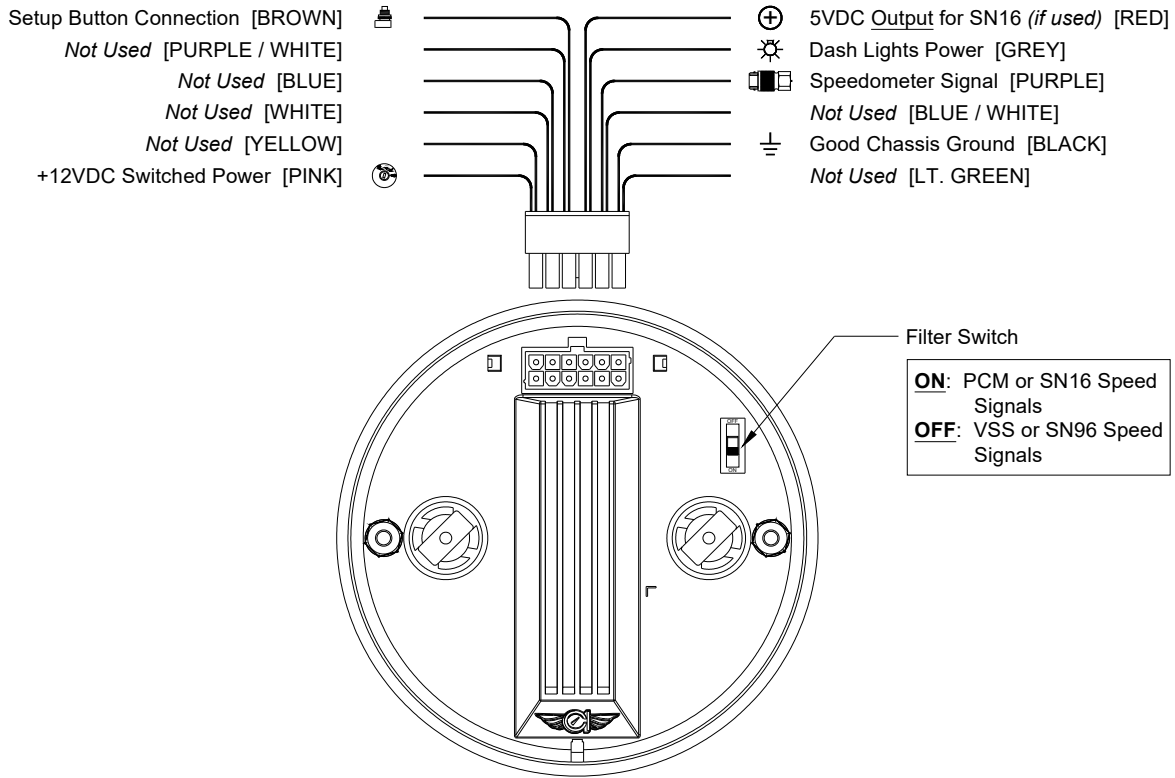


- 1) Always disconnect the vehicle battery before wiring any gauge.
- 2) Connect a switched +12VDC power source to the **Pink** wire of the gauge harness. *We recommend using a dedicated power source for the speedometer to avoid possible problems caused by bad "noisy" power.*
- 3) Connect a good chassis ground to the **Black** wire of the gauge harness. *We recommend using a dedicated chassis ground (not stacked with other ground wires) to avoid possible problems caused by a bad ground.*
- 4) Connect dash light power to the **Grey** wire of the gauge harness.
- 5) Connect a speed signal to the **Purple** wire of the gauge harness:
 - a. White signal wire from a pulse signal generator [SN16]
 - i. Connect the Black wire of the pulse signal generator to a good chassis ground.
 - ii. Connect the Red wire of the pulse signal generator to the **Red** wire of the gauge harness.
 - [OR]
 - b. One (either) wire of an electronic transmission's 2-wire vehicle speed sensor [VSS].
 - i. Connect the other VSS wire to the same ground used for the gauge.
 - [OR]
 - c. Speedometer signal wire of the vehicle computer [PCM].
- 6) Connect one wire of the speedometer calibration button to the **Brown** wire of the gauge harness.
 - a. Connect the other wire of the calibration button to a good chassis ground.
- 7) **White, Yellow, Purple / White, Green, Blue / White and Blue** wires of the gauge harness are NOT USED.

Trim Ring Indicator Wiring

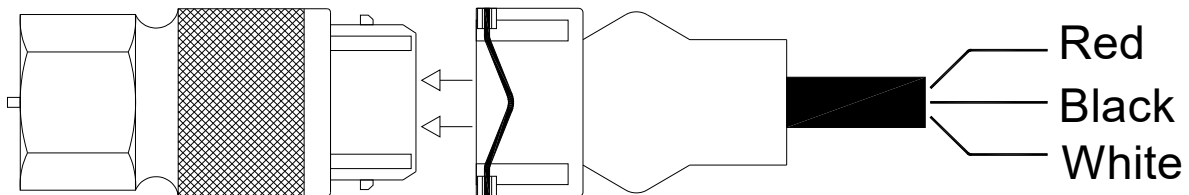
- 1) Connect right turn indicator power to the **Red** wire of the right turn LED indicator.
 - a. Connect the black wire of the right turn LED indicator to ground.
- 2) Connect high beam indicator power to the **Red** wire of the high beam LED indicator.
 - a. Connect the black wire of the high beam LED indicator to ground.
- 3) Connect left turn indicator power to the **Red** wire of the left turn LED indicator.
 - a. Connect the black wire of the left turn LED indicator to ground.

4 5/8" Speedometer Wiring Diagram



Optional Pulse Signal Generator [SN16] Wiring

Attach the signal generator to the transmission speedometer gear housing (where the speedometer cable originally connected). Do not use excessive force to tighten. These signal generators produce approximately 16,000 pulses per mile (PPM).



Red: ----- Power (To **Red** wire of gauge)

Black: ----- Ground (To good chassis ground)

White: ----- Signal (To **Purple** wire of gauge)

Speedometer Calibration

Note: Before performing speedometer calibration, insure you have a good speed signal. Take a test drive and make sure the speedometer shows a speed (even though it may not be correct)! If the speedometer doesn't show a speed, troubleshoot the speed signal before attempting to calibrate the speedometer.

Only one calibration method is necessary to perform to calibrate the speedometer. Pick the method that works best for you.

- The “Instant” calibration method requires a GPS reference speed signal (or pace car). You will need to drive at 30mph. This method is convenient if the speedometer is more than 10mph off at a known 60mph.
- The “Real-time” calibration method requires a GPS reference speed signal (or pace car). This method allows you to drive at any known speed and make changes to the speedometer reading as you go. This method is best used if the speedometer calibration is less than 10mph off at a known 60mph.
- The “Measured Mile” calibration method requires you to drive a known mile. This is convenient when a GPS is not available to use as a reference and also if the calibration is off more than 10mph at a known 60mph. The speed at which you drive the known mile can be varied, a GPS reference or pace car is not necessary.

Calibration Modes	
Speedometer Indication	Calibration Mode
50 MPH	Speedometer “Instant” Calibration
60 MPH	Speedometer “Real-time” Calibration
70 MPH	Speedometer “Measured Mile” Calibration
80 MPH	Factory Defaults Reset Mode
90 MPH	Exit calibration Mode

Entering Calibration Mode:

- 1) Start with power to the gauge OFF.
 - 2) Press and HOLD the calibration pushbutton.
 - 3) Start engine.
 - 4) Release the pushbutton after the engine is started. The speedometer will indicate 50MPH.
-

Speedometer “Instant” Calibration:

(steps 1-4 may be skipped if the gauge is already in calibration mode)

- 1) Start with power to the gauge OFF.
- 2) Press and HOLD the calibration pushbutton.
- 3) Start engine.
- 4) Release the pushbutton after the engine is started. The speedometer will indicate 50MPH.
- 5) With the speedometer indicating 50MPH, press and hold the calibration pushbutton until the speedometer changes to 0 MPH. *If the speedometer pointer is not at 50MPH, tap the button to cycle the pointer through the calibration modes until it comes back to 50MPH.*
- 6) Drive the vehicle at exactly 30MPH using a GPS or pace car as a reference. Press and hold the pushbutton while traveling 30MPH for approximately 4 seconds until the speedometer moves up to 30MPH. The speedometer will now track your speed. Verify that the speedometer is now reading accurately.
- 7) If you are satisfied with the speedometer calibration, tap the pushbutton to get back to the calibration mode options. If you would like to re-do the calibration, press and hold the pushbutton to restart the Instant Calibration process.
- 8) When you are finished, tap the pushbutton (as many times as needed) to move the speedometer pointer through the calibration modes to get to the 90MPH (Exit Calibration Mode) option. With the pointer at 90MPH, press and hold the button for about 6 seconds until the speedometer moves down and starts indicating your actual speed. The speedometer calibration is now saved.

Speedometer “Real-Time” Calibration:

(steps 1-4 may be skipped if the gauge is already in calibration mode)

- 1) Start with power to the gauge OFF.
- 2) Press and HOLD the calibration pushbutton.
- 3) Start engine.
- 4) Release the pushbutton after the engine is started. The speedometer will indicate 50MPH.
- 5) Tap the calibration pushbutton once to move the speedometer pointer up to 60MPH. *If you missed stopping the pointer at 60MPH, continue to tap the button to cycle the pointer through the calibration modes until it comes back to 60MPH.*
- 6) With the speedometer indicating 60MPH, press and hold the calibration pushbutton until the speedometer changes to 0 MPH.
- 7) Begin driving a known speed using a GPS or pace vehicle as a reference.
- 8) Press and hold the pushbutton to slowly change the indicated speed. The first time the button is pressed will increase the speedometer reading. The next time the button is pressed will decrease the speedometer reading. The speedometer will alternate between increasing and decreasing speed each time the button is pressed and held.
- 9) Continue to press and hold the pushbutton until the speedometer is indicating the correct speed.
- 10) Once the correct speed is dialed in on the speedometer, wait 8 seconds without pressing the pushbutton to have the current calibration saved. *If you still need to adjust the speed after this 8 second timeout, press and hold the button to re-enter the “Real Time” calibration mode again.*
- 11) If you are satisfied with the speedometer calibration, tap the pushbutton (as many times as needed) to move the speedometer pointer through the calibration modes to get to the 90MPH (Exit Calibration Mode) option. With the pointer at 90MPH, press and hold the button for about 6 seconds until the speedometer moves down and starts indicating your actual speed. The speedometer calibration is now saved.

Speedometer “Measured Mile” Calibration:

(steps 1-4 may be skipped if the gauge is already in calibration mode)

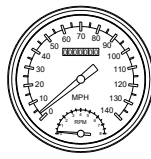
- 1) Start with power to the gauge OFF.
- 2) Press and HOLD the calibration pushbutton.
- 3) Start engine.
- 4) Release the pushbutton after the engine is started. The speedometer will indicate 50MPH.
- 5) Tap the calibration pushbutton twice to move the speedometer pointer up to 70MPH. *If you missed stopping the pointer at 70MPH, continue to tap the button to cycle the pointer through the calibration modes until it comes back to 70MPH.*
- 6) With the speedometer indicating 70MPH, press and hold the calibration pushbutton until the speedometer changes to 30 MPH.
- 7) Begin driving a known measured mile. *The speed at which you drive the mile does not matter.*
- 8) At the end of the mile, press and hold the pushbutton until the speedometer moves from 30MPH back up to 70MPH. *To get a more accurate calibration, stop at the end of the mile.*
- 9) If you are satisfied with the speedometer calibration, tap the pushbutton (as many times as needed) to move the speedometer pointer through the calibration modes to get to the 90MPH (Exit Calibration Mode) option. With the pointer at 90MPH, press and hold the button for about 6 seconds until the speedometer moves down and starts indicating your actual speed. The speedometer calibration is now saved.

Reset Gauge Calibration to Factory Defaults:

(steps 1-4 may be skipped if the gauge is already in calibration mode)

- 1) Start with power to the gauge OFF.
- 2) Press and HOLD the calibration pushbutton.
- 3) Start engine *(or just turn the key ON)*.
- 4) Release the pushbutton after the engine is started *(or the key has been turned ON)*. The speedometer will indicate 50MPH.
- 5) Tap the calibration pushbutton three times to move the speedometer pointer up to 80MPH. *If you missed stopping the pointer at 80MPH, continue to tap the button to cycle the pointer through the calibration modes until it comes back to 80MPH.*
- 6) With the speedometer indicating 80MPH, press and hold the calibration pushbutton until the speedometer changes to 90 MPH. The factory speedometer calibration is now set.
- 7) With the speedometer pointer at 90MPH, press and hold the button for about 6 seconds until the speedometer pointer moves down to zero.

4 5/8" Speed-Tachular Wiring

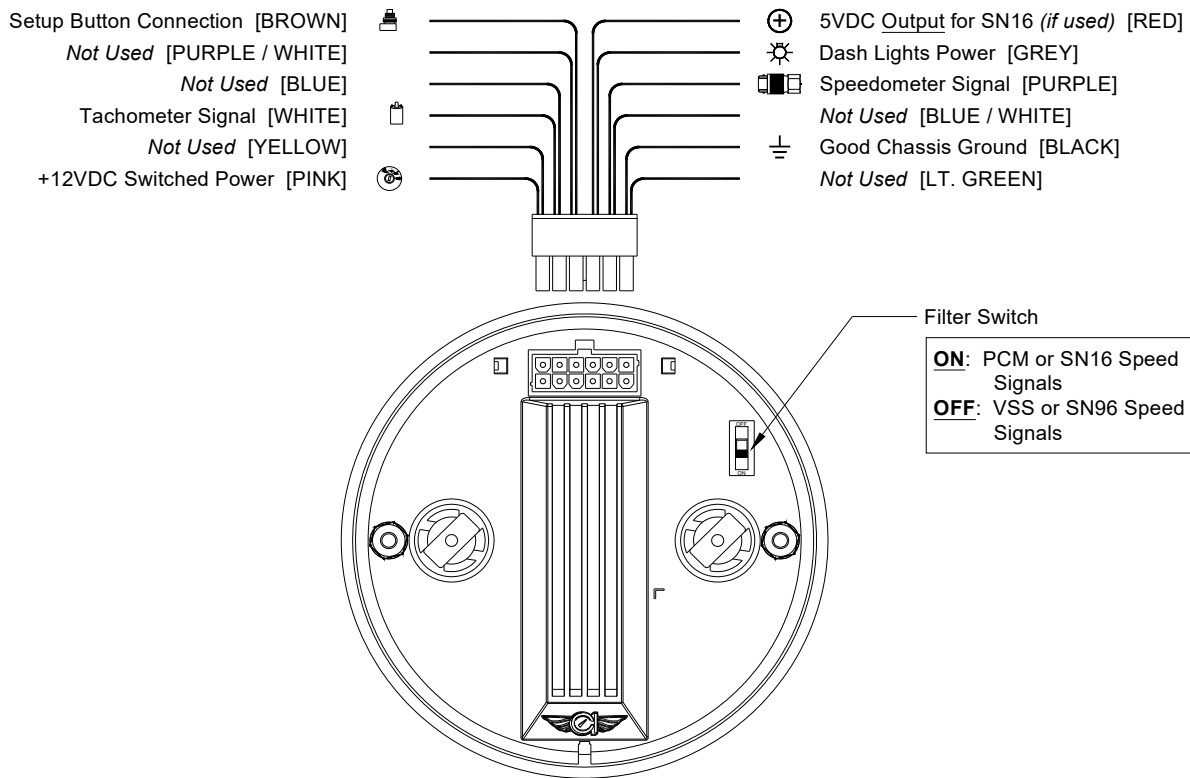


- 1) Always disconnect the vehicle battery before wiring any gauge.
- 2) Connect a switched +12VDC power source to the **Pink** wire of the wire harness. *We recommend using a dedicated power source for the speedometer to avoid possible problems caused by bad “noisy” power.*
- 3) Connect a good chassis ground to the **Black** wire of the wire harness. *We recommend using a dedicated chassis ground (not stacked with other ground wires) to avoid possible problems caused by a bad ground.*
- 4) Connect a speed signal to the **Purple** wire of the wire harness:
 - a. White signal wire from a pulse signal generator [SN16]
 - i. Connect the **RED** wire of the wire harness to the RED power wire of the SN16.
 - ii. Connect the BLACK ground wire of the SN16 to a good chassis ground.
 - [OR]
 - b. One (either) wire of an electronic transmission 2-wire vehicle speed sensor [VSS].
 - i. Connect the other wire of the VSS to the same point as the wire harness Black ground wire.
 - [OR]
 - c. Speedometer Signal wire of the vehicle computer [PCM].
- 5) Connect dash light power to the **Grey** wire of the wire harness.
- 6) Connect a tachometer signal to the **White** wire of the wire harness.
 - a. **STANDARD POINTS & CONDENSER SYSTEM**
 - i. Connect to the negative side of the coil (usually marked as “-”).
 - b. **GMC – HEI (High Energy Ignition System)**
 - i. Connect to the “TACH” terminal on coil side of distributor cap.
 - c. **MSD (Multiple Spark Discharge System)**
 - i. Connect to the TACH signal from the MSD box.
 - d. **VERTEX MAGNETO SYSTEM**
 - i. Connect to the “KILL” terminal on the side of a Vertex magneto body. An external adapter such as an MSD “Pro Mag Tach Converter” #8132 may be required.
 - e. **ACCEL IGNITION COILS**
 - i. Connect to the negative side of the coil. CAUTION! Some Accel ignition coils require the tach signal wire to be connected to the “+” terminal on the coil! PLEASE carefully read Accel’s instructions before connecting ignition coil.
 - f. **MALLORY IGNITION**
 - i. Connect to the negative terminal side of coil (usually marked as “-”).
 - g. **PCM TACHOMETER SIGNAL**
 - i. Connect to the signal from the computer. The tachometer typically needs to be set on 4 cylinder setting.
 - h. **MULTIPLE COIL IGNITION SYSTEMS**
 - i. A tach adapter may be required for these ignition systems. A tach signal driver such as the MSD #8913, which produces a 12V square wave signal, is recommended. Please check with manufacturer for your specific application.
 - i. **NOTICE!** For all other ignition systems please look at the owner’s manual for that system.
- 7) Connect the **Brown** wire of the wire harness to one wire of the momentary pushbutton.
 - a. Connect the other wire of the momentary pushbutton to ground.
- 8) The **Blue, Green, Purple / White, Blue / White** and **Yellow** wires of the wire harness are NOT USED.

Trim Ring Indicator Wiring

- 1) Connect right turn indicator power to the **Red** wire of the right turn LED indicator.
 - a. Connect the black wire of the right turn LED indicator to ground.
- 2) Connect high beam indicator power to the **Red** wire of the high beam LED indicator.
 - a. Connect the black wire of the high beam LED indicator to ground.
- 3) Connect left turn indicator power to the **Red** wire of the left turn LED indicator.
 - a. Connect the black wire of the left turn LED indicator to ground.

4 5/8" Speed-Tachular Wiring Diagram



4 5/8" Speed-tachular Wiring

Speed-Tachular Calibration

Note: Before performing speedometer calibration, insure you have a good speed signal. Take a test drive and make sure the speedometer shows a speed (even though it may not be correct)! If the speedometer doesn't show a speed, troubleshoot the speed signal before attempting to calibrate the speedometer.

Only one calibration method is necessary to perform to calibrate the speedometer. Pick the method that works best for you.

- The “Instant” calibration method requires a GPS reference speed signal (or pace car). You will need to drive at 30mph. This method is convenient if the speedometer is more than 10mph off at a known 60mph.
- The “Real-time” calibration method requires a GPS reference speed signal (or pace car). This method allows you to drive at any known speed and make changes to the speedometer reading as you go. This method is best used if the speedometer calibration is less than 10mph off at a known 60mph.
- The “Measured Mile” calibration method requires you to drive a known mile. This is convenient when a GPS is not available to use as a reference and also if the calibration is off more than 10mph at a known 60mph. The speed at which you drive the known mile can be varied, a GPS reference or pace car is not necessary.

Calibration Modes	
Tachometer Indication	Calibration Mode
1000 RPM	Tachometer Cylinder Setup
2000 RPM	Tachometer Signal Type Setup
3000 RPM	Speedometer “Instant” Calibration
4000 RPM	Speedometer “Real-time” Calibration
5000 RPM	Speedometer “Measured Mile” Calibration
6000 RPM	Shift Indicator Setup <i>(if equipped)</i>
7000 RPM	Factory Defaults Reset Mode
8000 RPM	Exit calibration Mode

Entering Calibration Mode:

- 1) Start with power to the gauge OFF.
 - 2) Press and HOLD the calibration pushbutton.
 - 3) Start engine.
 - 4) Release the pushbutton after the engine is started. The gauge will indicate 70MPH and 1000RPM.
-

Tachometer Cylinder Setup: (steps 1-4 may be skipped if the gauge is already in calibration mode)

- 1) Start with power to the gauge OFF.
- 2) Press and HOLD the calibration pushbutton.
- 3) Start engine.
- 4) Release the pushbutton after the engine is started. The gauge will indicate 70MPH and 1000RPM.
- 5) If necessary, tap the calibration pushbutton to index the tachometer pointer until the tachometer indicates 1000RPM.
- 6) With the tachometer indicating 1000RPM, press and hold the calibration pushbutton for 6 seconds. The speedometer pointer will move to indicate the current cylinder setting. (10MPH=1cylinder, 20MPH=2cylinder, 30MPH=3cylinder, 40MPH=4cylinder, 50MPH=5cylinder, 60MPH=6cylinder, 80MPH=8cylinder, 100MPH=10cylinder and 120MPH=12cylinder)
- 7) Tap the pushbutton to change the cylinder setting. The speedometer will cycle through the available settings each time the pushbutton is tapped.
- 8) With the speedometer indicating the desired cylinder setting, press and hold the pushbutton for 6 seconds. The gauge will indicate 70MPH and 8000RPM.
- 9) If you are finished calibrating the gauge, press and hold the pushbutton while the tachometer is indicating 8000RPM for 6 seconds. This will exit the calibration mode. If you want to calibrate another function of the gauge, tap the pushbutton to index the tachometer to the desired calibration mode.

Tachometer Signal Type Setup: (steps 1-4 may be skipped if the gauge is already in calibration mode)

- 1) Start with power to the gauge OFF.
- 2) Press and HOLD the calibration pushbutton.
- 3) Start engine.
- 4) Release the pushbutton after the engine is started. The gauge will indicate 70MPH and 1000RPM.
- 5) Tap the calibration pushbutton to index the tachometer pointer until the tachometer indicates 2000RPM.
- 6) With the tachometer indicating 2000RPM, press and hold the calibration pushbutton for 6 seconds. The speedometer pointer will move to indicate the current signal type setting.
- 7) Tap the pushbutton to change the signal type setting. The speedometer will cycle between the two options each time the pushbutton is tapped. (50MPH=Low Voltage Signal, 120MPH=High Voltage Signal)
- 8) Set the signal type to “Low Voltage” if using a computer-generated tachometer signal. Set the signal type to “High Voltage” for all other tachometer signals.
- 9) With the speedometer indicating the desired signal type setting, press and hold the pushbutton for 6 seconds. The gauge will indicate 70MPH and 8000RPM.
- 10) If you are finished calibrating the gauge, press and hold the pushbutton while the tachometer is indicating 8000RPM for 6 seconds. This will exit the calibration mode. If you want to calibrate another function of the gauge, tap the pushbutton to index the tachometer to the desired calibration mode.

Speedometer “Instant” Calibration: *(steps 1-4 may be skipped if the gauge is already in calibration mode)*

- 1) Start with power to the gauge OFF.
- 2) Press and HOLD the calibration pushbutton.
- 3) Start engine.
- 4) Release the pushbutton after the engine is started. The gauge will indicate 70MPH and 1000RPM.
- 5) Tap the calibration pushbutton to index the tachometer pointer until the tachometer indicates 3000RPM.
- 6) With the tachometer indicating 3000RPM, press and hold the calibration pushbutton for 6 seconds. The speedometer pointer will move to 0MPH.
- 7) Drive the vehicle at exactly 30MPH. Press and hold the pushbutton while traveling 30MPH. When the calibration is completed, the speedometer will move to indicate 30MPH at which point the pushbutton may be released.
- 8) If you are satisfied with the speedometer calibration, tap the pushbutton once to get back into the main gauge calibration mode. The gauge will indicate 70MPH and 8000RPM. If you would like to re-do the calibration, simply press and hold the pushbutton while traveling 30MPH and hold the pushbutton until the speedometer indicates 30MPH at which point the pushbutton may be released.
- 9) When you are finished calibrating the gauge, tap the pushbutton and the gauge will indicate 70MPH and 8000RPM. Then, Press and hold the pushbutton for 6 seconds. This will exit the calibration mode. If you want to calibrate another function of the gauge, tap the pushbutton to index the tachometer to the desired calibration mode.

Speedometer “Real-Time” Calibration: *(steps 1-4 may be skipped if the gauge is already in calibration mode)*

- 1) Start with power to the gauge OFF.
- 2) Press and HOLD the calibration pushbutton.
- 3) Start engine.
- 4) Release the pushbutton after the engine is started. The gauge will indicate 70MPH and 1000RPM.
- 5) Tap the calibration pushbutton to index the tachometer pointer until the tachometer indicates 4000RPM.
- 6) With the tachometer indicating 4000RPM, press and hold the calibration pushbutton for 6 seconds. The speedometer pointer will move to indicate the speed with the current calibration (which you will need to adjust to make correct).
- 7) Press and hold the pushbutton to increase the indicated speed. Release the pushbutton to stop increasing the speed.
- 8) If necessary, press and hold the pushbutton again to decrease the indicated speed. Release the pushbutton to stop decreasing.
- 9) Press and hold the pushbutton once more to increase the indicated speed. Etc...
- 10) Once the correct speed is dialed in on the speedometer, wait 10 seconds and then tap the pushbutton. The gauge will indicate 70MPH and 8000RPM.
- 11) If you are finished calibrating the gauge, press and hold the pushbutton while the tachometer is indicating 8000RPM for 6 seconds. This will exit the calibration mode. If you want to calibrate another function of the gauge, tap the pushbutton to index the tachometer to the desired calibration mode.

Speedometer “Measured Mile” Calibration: *(steps 1-4 may be skipped if the gauge is already in calibration mode)*

- 1) Start with power to the gauge OFF.
- 2) Press and HOLD the calibration pushbutton.
- 3) Start engine.
- 4) Release the pushbutton after the engine is started. The gauge will indicate 70MPH and 1000RPM.
- 5) Tap the calibration pushbutton to index the tachometer pointer until the tachometer indicates 5000RPM.
- 6) With the tachometer indicating 5000RPM, press and hold the pushbutton for 6 seconds. The speedometer pointer will move to 30MPH.
- 7) Begin driving a measured mile.
- 8) At the end of your measured mile, press and hold the pushbutton for another 6 seconds. The gauge will indicate 70MPH and 8000RPM.
- 9) If you are finished calibrating the gauge, press and hold the pushbutton while the tachometer is indicating 8000RPM for 6 seconds. This will exit the calibration mode. If you want to calibrate another function of the gauge, tap the pushbutton to index the tachometer to the desired calibration mode.

Optional Shift Indicator Setup: *(steps 1-4 may be skipped if the gauge is already in calibration mode)*

- 1) Start with power to the gauge OFF.
- 2) Press and HOLD the calibration pushbutton.
- 3) Start engine.
- 4) Release the pushbutton after the engine is started. The gauge will indicate 70MPH and 1000RPM.
- 5) Tap the calibration pushbutton to index the tachometer pointer until the tachometer indicates 6000RPM.
- 6) With the tachometer indicating 6000RPM, press and hold the pushbutton for 6 seconds. The tachometer pointer will move to 0RPM. The shift light trigger RPM can now be set.
- 7) Press and hold the pushbutton to increase the tachometer reading. Release the pushbutton to stop increasing the tachometer reading.
- 8) If necessary, push and hold the pushbutton again to decrease the tachometer reading. Release the pushbutton to stop decreasing the tachometer reading.
- 9) Press and hold the pushbutton once more to increase the tachometer reading. Etc...
- 10) When the desired shift light trigger RPM is indicated on the tachometer, release the pushbutton and wait 10 seconds. After 10 seconds of no pushbutton activity, the trigger point will be stored; the tachometer will indicate 8000RPM.
- 11) If you are finished calibrating the gauge, press and hold the pushbutton while the tachometer is indicating 8000RPM for 6 seconds. This will exit the calibration mode. If you want to calibrate another function of the gauge, tap the pushbutton to index the tachometer to the desired calibration mode.

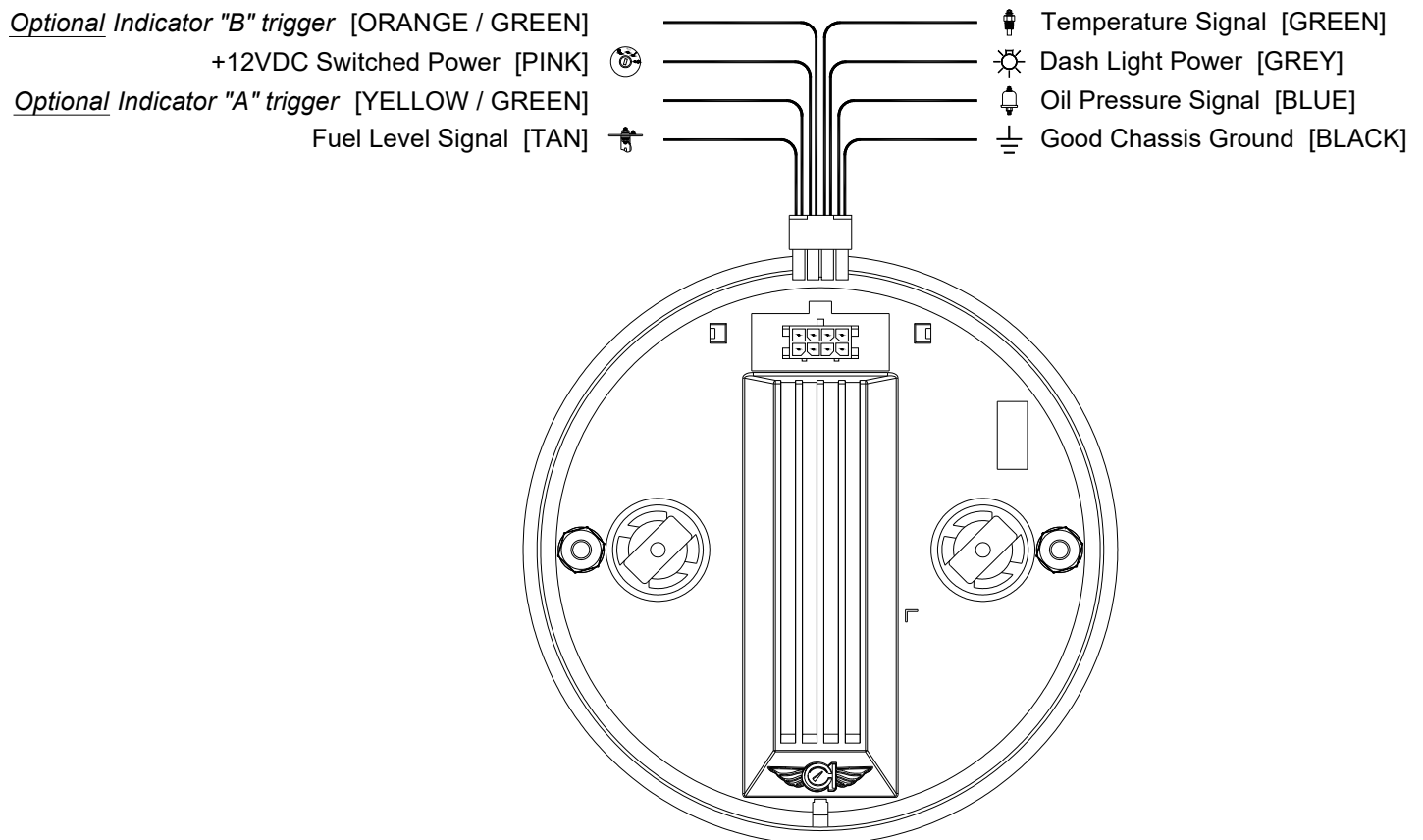
Reset Gauge Calibration to Factory Defaults: *(steps 1-4 may be skipped if the gauge is already in calibration mode)*

- 1) Start with power to the gauge OFF.
- 2) Press and HOLD the calibration pushbutton.
- 3) Start engine.
- 4) Release the pushbutton after the engine is started. The gauge will indicate 70MPH and 1000RPM.
- 5) Tap the calibration pushbutton to index the tachometer pointer until the tachometer indicates 7000RPM.
- 6) With the tachometer indicating 7000RPM, press and hold the pushbutton for 6 seconds. The tachometer will move to 8000RPM.
- 7) If you are finished calibrating the gauge, press and hold the pushbutton while the tachometer is indicating 8000RPM for 6 seconds. This will exit the calibration mode. If you want to calibrate another function of the gauge, tap the pushbutton to index the tachometer to the desired calibration mode.

4 5/8" Quad Gauge Wiring

- 1) Always disconnect the ground lead from the vehicle battery before wiring any gauge.
- 2) Connect a switched +12VDC power source to the **Pink** wire of the gauge harness.
- 3) Connect a good chassis ground to the **Black** wire of the gauge harness.
- 4) Connect a dash light power to the **Grey** wire of the gauge harness.
- 5) Connect a fuel level sender (240-33Ω) to the **Tan** wire of the gauge harness.
- 6) Connect a Classic Instruments oil pressure sender to the **Blue** wire of the gauge harness.
- 7) Connect a Classic Instruments temperature sender to the **Green** wire of the gauge harness.
- 8) Optional: Connect optional indicator "A" trigger to the **Yellow / Green** wire of the gauge harness.
 - a. NOTE: Indicator only available when special ordered.
- 9) Optional: Connect optional indicator "B" trigger to the **Orange / Green** wire of the gauge harness.
 - a. NOTE: Indicator only available when special ordered.

4 5/8" Quad Gauge Wiring Diagram



Oil Pressure Sender Installation

(Part No. SN52)

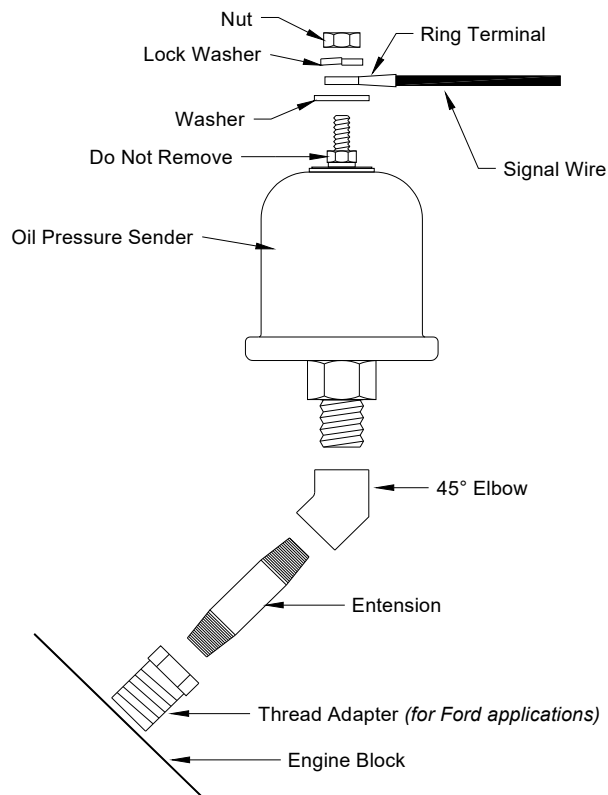
- 1) Disconnect battery before installation.
- 2) Only install Classic Instruments sending units when the engine is COLD.
- 3) DO NOT use Teflon tape on the threads. These threads are slightly tapered and designed to be self-sealing. The sender uses the threads for its ground connection and sealant may cause a poor ground causing inaccurate readings. If supplemental sealant is needed, we recommend using Loctite C5-A anti-seize. This is a copper based anti-seize which will allow a good electrical connection for the sender ground.
- 4) Connect a wire from the top terminal of the oil pressure sender to the **Blue** wire of the gauge wire harness.

GM Installation: The correct location on most GM V8-engines to install the oil pressure sender is under the distributor housing at the rear of the block.

Use the 2 piece bushing kit provided to allow the sender to be mounted at a 45-degree angle pointing towards the driver's knees. This allows the sender to clear the back of the intake manifold, the underside of the distributor housing and also the firewall.

GM Installation – Big Block Engines: We do NOT recommend installing Classic Instrument's oil pressure sender in the opening located just above the oil filter on some big block GM engines. This location may not be a full-pressure passage but instead a "by-pass" oil passageway. Installing our pressure sender at this location may result in some strange low-pressure readings under certain driving conditions. This does not indicate a defective instrument or sender! It simply means you need to move the sender to the correct location.

GM Installation – LS Engines: Install the sender in the oil bypass housing located just above the oil filter. The housing will need to be drilled and tapped to 1/8"NPT.

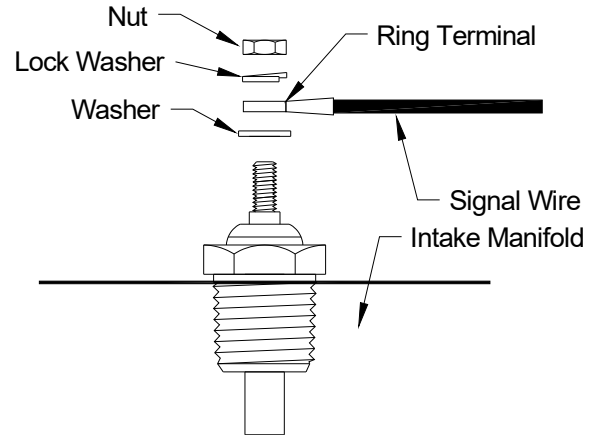


LS1 Oil Bypass Housing

Temperature Sender Installation

(Part No. SN12MM, SN22, SN23, SN24 & SN25)

- 1) Disconnect battery before making any connections.
- 2) Install the Classic Instrument's temperature sending unit only when the engine is COLD!
- 3) DO NOT use Teflon tape on the threads. These threads are slightly tapered and designed to be self-sealing. The sender uses the threads for its ground connection and sealant may cause a poor ground causing inaccurate readings
- 4) Install the temperature sender into the intake manifold of your engine as possible. Installing the sender in the engine cylinder head may cause inaccurate temperature readings.
 - a. On GM "LS" engines, the temperature sender mounts on the passenger side of the engine under the rear cylinder. A 12mm thread sender is available to fit this location.
- 5) Connect a wire from the top terminal of the temperature sender to the **Green** wire of the gauge wire harness.
- 6) Tighten until snug. DO NOT OVER TIGHTEN!



Notice: Avoid installing the temperature sender into the head of a late-model GMC engine. Even though the stock GMC sender may have been installed there, this opening is too close to the exhaust header and will most likely cause an improper reading.

Universal Fuel Level Sender Installation

- 1) For tank depths of 6" to 15-1/2", it will be necessary to remove the lower mounting bracket.
 1. Begin by removing the two screws and nuts from the lower mounting bracket. These will be discarded.
 2. Remove the two screws from the plastic rheostat housing. Save these screws to use later.
 3. Remove the plastic rheostat housing from the lower mounting bracket and then discard this portion of the mounting bracket.
 4. Reinstall the plastic rheostat housing to the upper mounting bracket and secure using the screws you removed in step "b". (for tank depths 6-7 inches, the top screw is not needed)
- 2) Adjust the float length and pivot point for the tank's depth. See diagram below.

