



Read these instructions thoroughly before installation. Do not deviate from assembly or wiring diagram. Always disconnect battery ground before making any electrical connections.

The VDO gauges in this panel are designed to work with the included senders only, and will not work with the original Chevrolet or other manufacturer's senders.

Failure to ground to a chassis point that is not isolated from other electronics will result in inaccurate instrument readings and/or possible damage. **Failure to use an isolated ground will void the warranty.**

Cleaning and Care of your 55'-56' Billet Panel.

This panel is made from a solid piece of machined aluminum, and should require minimal to zero care. Should cleaning be required, clean with damp cloth only to avoid scratching the instrument lenses.

Should scratches develop on the aluminum surfaces, aluminum polish may be applied with a soft cloth. **DO NOT ALLOW ALUMINUM OR ANY OTHER POLISH TO COME IN CONTACT WITH INSTRUMENT LENSES.**

Parts List

Item	Description	Qty
1	'55-56 Chevy Panel with Instruments and Warning Lights	1
2	Fuel Sender with Low Fuel Switch	1
3	Temperature Sender	1
4	Temperature Switch	1
5	GM Speedometer Sender	1
6	14 Pin Harness	1
7	8 Pin Harness	3
8	US Thread Adapter Kit	2
9	Metric Thread Adapter Kit (for LSx)	1

Merchandise warranted against defects in factory workmanship and materials for a period of 24 months after purchase. This warranty applies to the first retail purchaser and covers only those products exposed to normal use or service. Provisions of this warranty shall not apply to a VDO product used for a purpose for which it is not designed, or which has been altered in any way that would be detrimental to the performance or life of the products, or misapplication, misuse, negligence or accident. On any VDO part or VDO product found to be defective after examination by manufacturer, manufacturer will only repair or replace the merchandise through the original selling dealer. Manufacturer assumes no responsibility for diagnosis, removal and/or installation labor, loss of vehicle use, loss of time, inconvenience or any other consequential expenses. The warranties herein are in lieu of any other expressed or implied warranties, including any implied warranty or merchantability of fitness, and any other obligation on the part of manufacturer, or selling dealer.

Panel Installation:

1. This panel is designed to mount directly into an original or factory reproduction 1955-1956 Chevrolet bezel (not included).
2. Mount the panel to the bezel by aligning the pre-drilled holes along the edge and attaching with screws.



Wiring the Speedometer (Illustration A):

1. Route wires from the instrument to:
 - (a) The battery (+) constant power after the fuse box or user supplied in-line fuse – 5 amp fast-blow.
 - (b) The battery (+) after the ignition switch and after the fuse box or user supplied in-line fuse – 1 amp fast-blow.
 - (c) The light switch after the fuse box or user supplied in-line fuse -1 amp.
 - (d) A good, dedicated ground location that is **isolated** from other electronics.
 - (e) Signal source - Hall Effect sender (included), Inductive sender, or Electronic control box (optional).
2. Connect the harness according to the following wiring Matrix:

Pin	Description
1	Red - Battery constant (+12V)
2	Black - Ground
3	Blue/Black - Sender Signal (-)
4	Brown - Battery switched (+12V)
5	Green - Sender Signal (+)
6	Blue/Red - Illumination (+)
7	Not Connected
8	Not Connected
Note - Use 18 AWG for wire harness	

Pin	Description
1	Blue - NMEA0183-B (optional, GPS)
2	White - NMEA0183-A (optional, GPS)
6	Black/Red - Left Turn (+ Trigger)
7	Black/White - High Beam (+ Trigger)
9	Yellow - Park Brake (+ Trigger)
10	Orange - Right Turn (+ Trigger)
11	Green/Black – Configuration (- Trigger)
12	Green/Red - Mode (+ Trigger)
13	Red - Alarm Output(max 100 mA)
3-5, 8, 14	unassigned

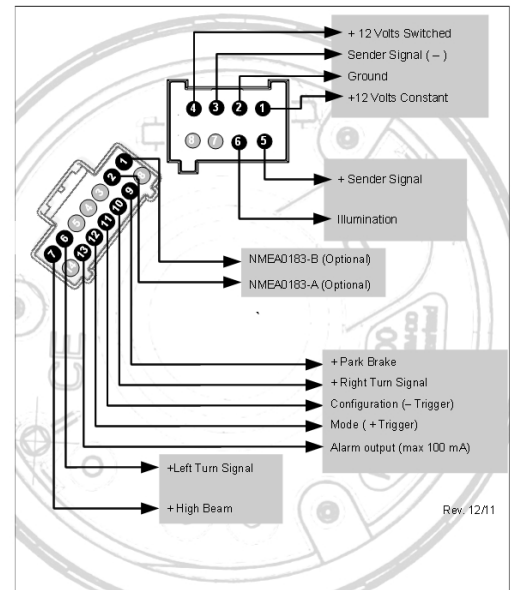


Illustration A



Failure to use a ground that is isolated from other electronics will result in inaccurate speedometer readings and/or possible damage, and will void the warranty.

Programming the Speedometer (Illustration B):**Operation Basics:**

Short Press (< 2sec.) - Long Press (> 2sec.)

The Configuration button must be connected before programming can be done.

The display will return to normal operation if a button is not pressed for 30 seconds. Any settings you have made will not be saved.

Setting the Speedometer Input:

1. With the ignition switch off, hold in the Configuration button
2. Turn ignition on
3. Release the Configuration button
4. "INPUT" will appear on the display
5. Long press to get to the Input setting screen
6. Short press to cycle through "FREQUE" or "NMEA".
NOTE: NMEA input requires no calibration.
7. Long press to exit input setting
8. "INPUT" will appear on the display

Calibrating the Speedometer (FREQUE Input)– Autocal or Manual**Autocalibration (Autocl):**

The auto-calibration function can be used successfully on a road with the distance of one mile accurately designated. The road does not have to be straight.

1. While in configuration mode (Refer to step 1-3 above) Short press to get to the "Autocl" setting screen.
2. Long Press to enter the autocal menu– "button" will appear.
3. When you are ready to begin your calibration run, short press the button again. "000000" will appear on the display.
4. Drive the reference distance of one mile (or 1 kilometer).
NOTE: As you drive this distance, the pulses will be displayed and the needle will move. If the Speedo is not counting pulses, no useable impulse is being detected.
5. After 1 mile, Short press. The number of pulses counted during the calibration run will be displayed.
6. Long press to save the pulse count and exit the auto-calibration ("PULSE" will appear on the display).
7. Turn off ignition. The Speedometer is now programmed.

NOTE: The Push-buttons supplied are to be used as a:

a) **Configuration** button to set up the speedometer before use (temporary installation).

b) **Mode** button for operation of the speedometer during normal use. (Permanent location on panel)



Permanent button location

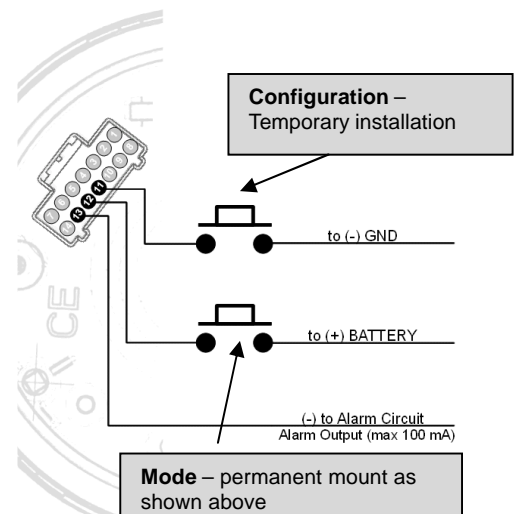


Illustration B

Manual Calibration:

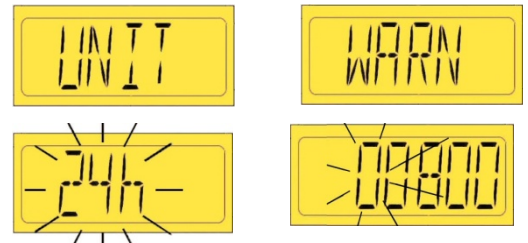
1. With the ignition switch off, hold in the Configuration button.
2. Turn ignition on.
3. Release the Configuration button.
4. "INPUT" will appear on the display
5. Short press twice - "PULSE" will appear on the display
6. Long press to get to the pulse setting screen
7. Short press will increase the value of the flashing number by 1.
8. Long press to move to the next position.
9. Continue until right most digit is set.
10. Long press to exit pulse setting.
11. "PULSE" will appear on the display.
12. Turn off ignition.

The Speedometer is now programmed. The Configuration button can be disconnected and connected to be used as the Mode button.

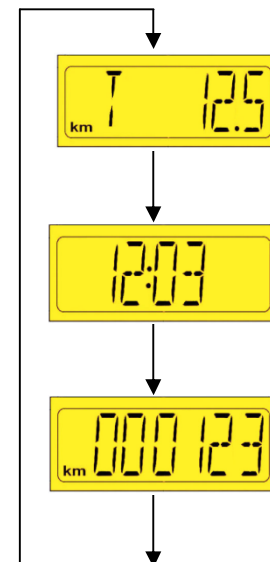
Set Unit and Alarm Threshold:

1. With the ignition switch off, hold in the Mode button
2. Turn ignition on
3. Release the Mode button
4. "UNIT" will appear
5. Long press to enter UNIT menu
6. Short press to change the clock format
12 hour am/pm - 24 hour
7. Long press to return to UNIT menu
8. Short press to show "WARN" on the display
9. Long press to enter WARNING menu
10. Short press to set Speed warning limit.
11. Short press will increase the value of the flashing number by 1 - Long press will move to the next position
12. Continue until right most digit is set.
13. Long press to exit.
14. Turn off ignition.

The Warning Icon in the gauge will illuminate and the Alarm Output (Optional, Pin 13 of 14 pin connector) will trigger to ground when the Speed exceeds this limit.

**Mode Button:**

In normal operating situations, Short press of the MODE button will cycle through:



Reset the Trip Distance:

1. Press the Mode key repeatedly until the trip distance is displayed.



2. Press and hold Mode key to reset.



Setting the Time:

1. Press the Mode key repeatedly until the clock is displayed.
2. Long press the Mode button to enter clock set mode.



3. Short press will increase the value of the flashing number by 1



4. Long press to move to the next position
5. When finished, Long Press to return to clock display

Note if Pin 1 - Battery (+12V) – of the 8 pin connector is disconnected, the clock will need to be reset.

Set the Illumination intensity (1 to 10):

- 1) Long press the Mode button while the Odometer is displayed to enter Illumination setting.



- 2) Short Presses will increase the value of the flashing number by 1.

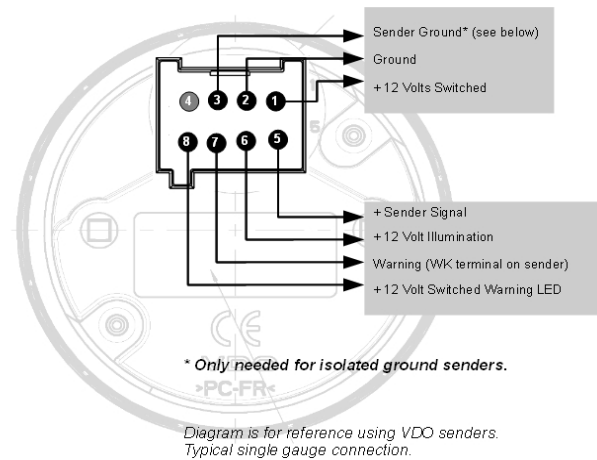


- 3) Long press to save the Illumination setting and return to the Odometer display screen.

Water Temperature & Fuel Gauges

Wiring the Gauge (Illustration C):

1. Route wires from the instrument to:
 - (a) The battery (+) switched power after the fuse box or user supplied in-line fuse – 1amp
 - (b) The light switch after the fuse box or user supplied in-line fuse -1 amp
 - (c) A good, dedicated ground location. Ground must not be shared with any other electronics
 - (d) If using the Warning LED in the gauges, see wiring information in Illustration

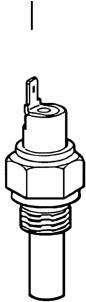


Pin	Description
1	Red – Battery Switched (+12V)
2	Black – Ground
3	Blue/Black – Not Used
4	Brown – Not Used
5	Green – Sender Signal
6	Blue/Red - Illumination (+)
7	Yellow/Black – Warning LED (WK Terminal on Sender)
8	Yellow/Red – Warning LED (+12V)
Note - Use 18 AWG for wire harness	

Illustration C
Water Temperature, Fuel

Included Senders and Switches

Warning contact terminal to black/yellow wire of temperature gauge



Signal terminal to green wire of temperature gauge



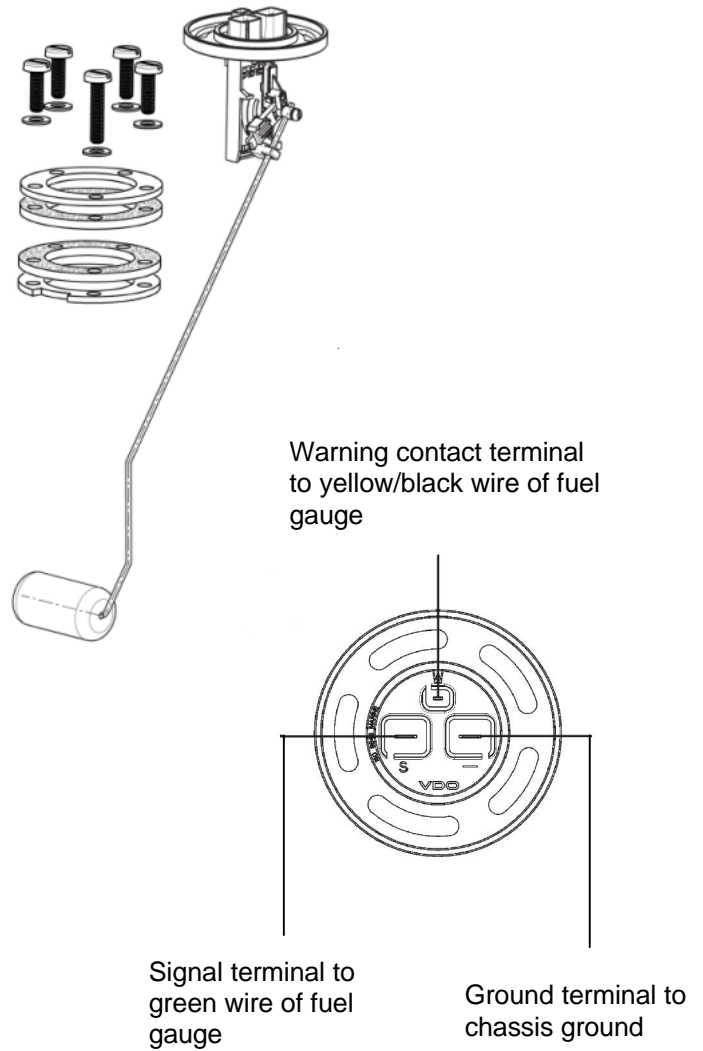
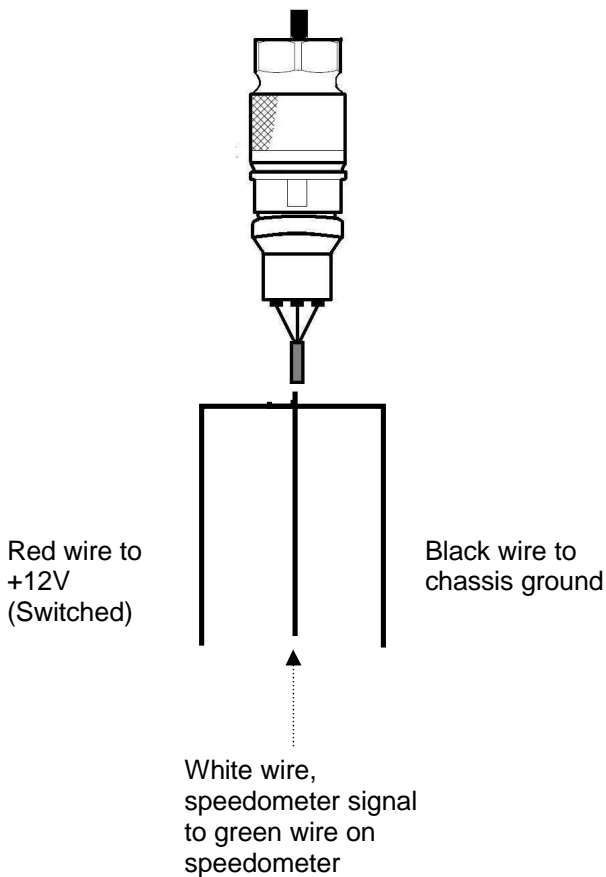
Included Temperature Switch (1/8-27 NPTF Thread)
Marking on hex 120°C, 11/05/20

Note: Do NOT use Teflon tape or sealant on threads!

Included Temperature Sender (1/8-18 NPTF Thread)
Marking on hex 120°C, 801/5/1 (VDO Proprietary Ohm Range)

Note: Do NOT use Teflon tape or sealant on threads!

Included Senders and Switches



Included Speedometer Sender
16 pulse/revolution, weather sealed,
reverse polarity protected. 7/8-18 Thread

Included Fuel Sender with Low Fuel Warning Contact (10-180 Ohm)
Please see the separate instruction sheet included with kit for detailed installation instructions