

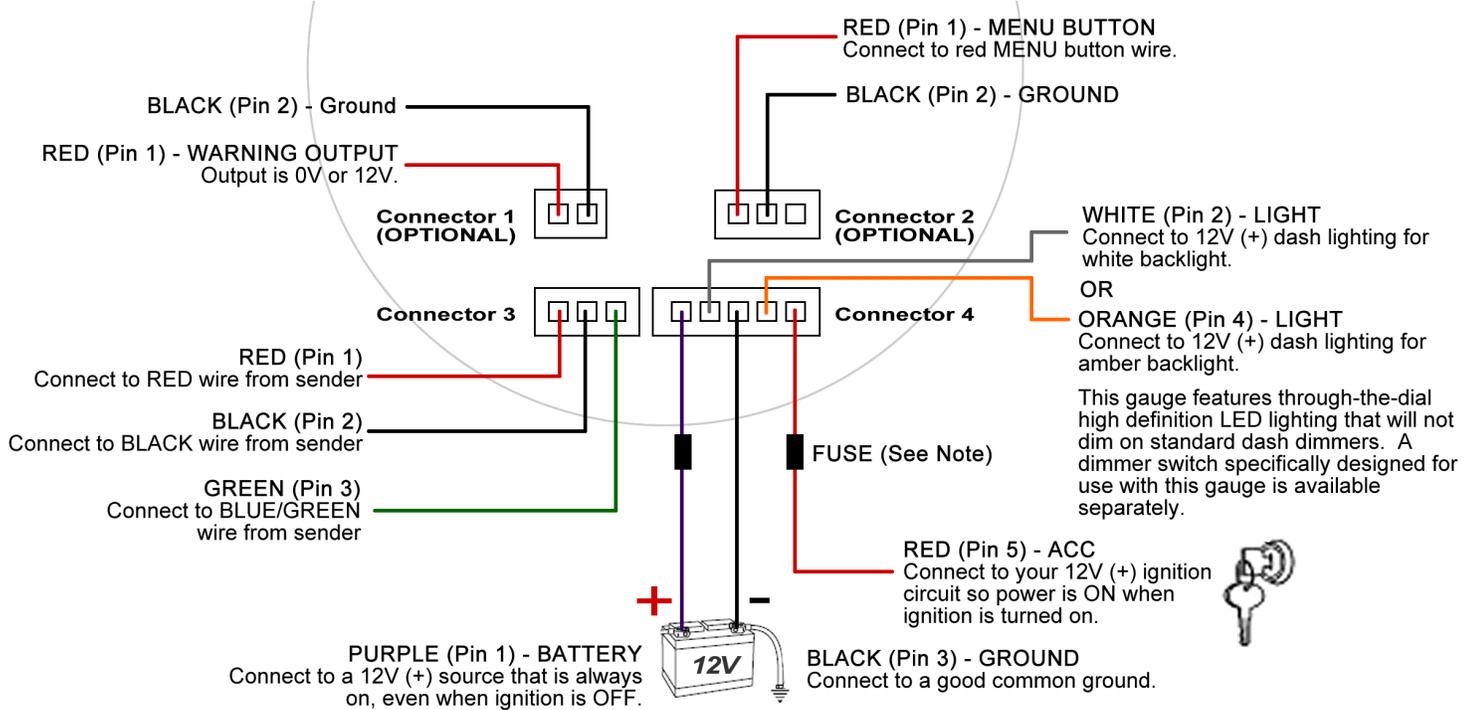
# Installation Instructions for 2-1/16" SCX Boost Pressure Gauge w/ Transducer

## Before You Start

Please read the instructions completely before installing.

- **ALWAYS WEAR SAFETY GLASSES.**
- Install the gauge only when the engine is cool and ignition is off.
- Make sure all necessary tools, materials, and parts are on hand.
- Disconnect the negative (-) battery cable before installing gauge.
- 2-1/16" gauge mounts in a 2-1/16" diameter hole.
- Make sure mounting location does not impair visibility or interfere with driving. Also check behind the mounting location for any wiring or components before drilling.

**Fig 1. Wiring Diagram**



**Table 1. Wiring Summary**

	Color	Pin	Connector	Notes
12V+ (Battery)	Purple	1	4	Connect to a 12V+ source that is always on, even when ignition is OFF (i.e. Battery +)
White Light	White	2	4	Connect to 12V+ dash lighting for white backlight.
Ground	Black	3	4	Connect to a good common ground.
Amber Light	Orange	4	4	Connect to 12V+ dash lighting for amber backlight.
12V+ ACC (Ignition)	Red	5	4	Connect to 12V+ ignition circuit so power is ON when the ignition is turned on.
Red	Red	1	3	Connect to RED wire from pressure sender connector
Black	Black	2	3	Connect to BLACK wire from pressure sender connector
Signal	Green	3	3	Connect to BLUE/GREEN wire from pressure sender connector
Menu Button +	Red	1	2	Connect to the red MENU button wire.
Menu Button -	Black	2	2	Connect to black MENU button wire.
Not Used	Green	3	2	Cut and seal so no wire is exposed.
Warning Output +	Red	1	1	Normal operating mode: 0V output. Warning mode: 12V output.
Warning Output -	Black	2	1	

## Wiring

Use 20 AWG stranded or heavier wire for installation. Route wires away from any moving parts and hot engine components. Secure wires firmly along their route. **Cut and seal all unused wire connections.**

**Note:** As a safety precaution, the RED (Pin 5) and PURPLE (Pin 1) 12V+ connections should be fused. We recommend using a 1 Amp, 3 AG fast-acting type cartridge fuse.

## MENU Button Installation

Installation of the remote MENU button is only necessary if you want to use the RECALL and WARNING features of the gauge. Installation of the MENU button is NOT required if you do not wish to use the RECALL or WARNING features.

Mount the included MENU button in a location that is convenient. Connect the red wire from the button to Connector 2, Pin 1 (Red) and the black wire on the button to Connector 2, Pin 2 (Black). See Fig 1.

## LED Lighting

This gauge features integrated LED lighting that requires the gauge to be ON for the gauge lighting to work.

## Programming Full Dial Low Warning (WARN LO)

This gauge can be configured to show a full dial low warning (flashing amber backlight) when the gauge goes BELOW a specific value (i.e. pressure goes below 900psi).

1. To access the WARN LO programming mode, press and hold the MENU button until the pointer moves to 25% scale (approx 1 second). Release the MENU button after the pointer has reached 25% scale.
2. After releasing the MENU button the pointer will move to the current low warning set point. Factory default is 0% scale (WARN LO deactivated).
3. To change the set point, press the MENU button repeatedly to move the pointer by 2% increments. Once the pointer reaches 100% scale, pressing the MENU button will decrease the pointer position by 2% increments.
4. Once the pointer indicates your desired low warning set point, leave the MENU button untouched for 5 seconds. The low warning set point will be saved and the gauge will return to normal operating mode.

To turn the low warning OFF, repeat steps 1-4 above and change the low warning set point to 0% or 2% scale. Setting the low warning set point to 0% or 2% deactivates the low warning feature.

## Viewing and Clearing Peak Value (RECALL)

1. To view the peak value, press the MENU button one time.
2. To exit RECALL mode press the MENU button one time.
3. To clear the stored peak value, press and hold the MENU button for 3 seconds while in RECALL mode.

## External Warning Output

This gauge features an external output that can be used to activate and deactivate warning lights or other vehicle systems such as fans, heaters, and pumps.

When a high or low warning condition exists the gauge outputs a 12V+ DC signal (500mA) on Pin 1 of Connector #1 (See Fig 1). The output is 0V when a high or low warning condition does not exist.

Do not install Connector 1 if external warning output is not required.

## Sender Installation

RED: Connect to RED wire on connector 3

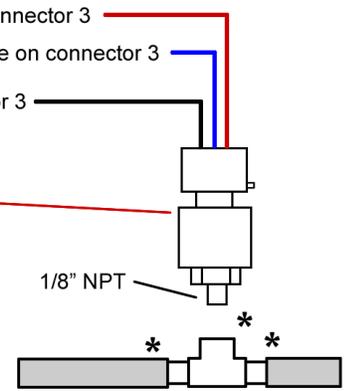
BLUE or GREEN: Connect to GREEN wire on connector 3

BLACK: Connect to BLACK wire on connector 3

**WARNING: The sender is a high-end transducer with advanced circuitry. To protect the sending unit, mount the sender vertically and away from high vibration or excessive heat.**

Install sender in a location where it will not be subjected to excess heat or vibration. Be sure to install the sender so that the 1/8" NPT connection is facing down to prevent water moisture accumulating inside the sender.

\* Secure all tubing connections with clamps (purchased separately).



Cut the original manifold line and attach each end to the T-fitting (sold separately).

## Programming Full Dial High Warning (WARN HI)

This gauge can be configured to show a full dial high warning (flashing amber backlight) when the gauge goes ABOVE a specific value (i.e. pressure goes above 1200psi).

1. To access the WARN HI programming mode, press and hold the remote button until the pointer moves to 75% scale (approx 3 seconds). Note: the pointer will stop at 25% scale for approx 1 second (for WARN LO programming mode), continue holding the button until the pointer has reached 75% scale. Release the button after the pointer has reached 75% scale.
2. After releasing the button the pointer will move to the current high warning set point. Factory default is 100% scale (WARN HI deactivated).
3. To change the set point, press the MENU button repeatedly to move the pointer by 2% increments. Once the pointer reaches 0% scale, pressing the MENU button will increase the pointer position by 2% increments.
4. Once the pointer indicates your desired high warning set point, leave the MENU button untouched for 5 seconds. The high warning set point will be saved and the gauge will return to normal operating mode.

To turn the high warning OFF, repeat steps 1-4 above and change the high warning set point to 98% or 100% scale. Setting the high warning set point to 98% or 100% deactivates the high warning feature.

## Full Dial Warning (WHITE/AMBER/OFF)

The full dial warning has three modes: WHITE, AMBER, and OFF. To change the full dial warning mode:

1. Press and hold the MENU button until the pointer moves to 100% scale (approx 4 seconds). Note: the pointer will stop at 25% scale for approx 1 second, then 75% for approx. 1 second. Do not release the MENU button until the pointer has reached 100% scale. Release the button after the pointer reaches 100% scale.
2. After releasing the button, the gauge backlighting will indicate the current Full Dial Warning mode as follows: WHITE (flashing white backlight), AMBER (flashing amber backlight) and OFF (no backlighting).
3. Press the MENU button briefly to switch the full dial warning mode. Continue pressing the MENU button briefly until the desired full dial warning mode is active.
4. To save your changes, leave the MENU button untouched for 5 seconds. Full Dial Warning Mode will be saved and the gauge will return to normal operating mode.