



Boost Digital Display Gauge

Part numbers:

30-4406 - Digital Boost Gauge, 30-35psi

30-4408 - Digital Boost Gauge, 30-50psi



AEM's Digital Boost Display Gauges combine unsurpassed accuracy, speed and control with an easy-to-read digital LED interface that displays boost in 1 PSI increments, and a sweeping LED "needle" that lines the edge and moves as boost from 0 to up to 50 PSI. The boost gauge's digital readout will automatically increase and decrease in intensity due to the built in ambient light sensing photocell.

AEM's digital boost gauges include a 0-5v analog output for use with data loggers and virtually any engine management system, such as the Infinity ECU, Series 2 EMS or AQ-1 Data Logger, making it the perfect solution for users who need to monitor and data log boost at high RPM on tuned engines. Each gauge includes interchangeable silver and black bezels and black and white faceplates to personalize the look of your gauge.

NOTE: For boost control solutions please see TRU-BOOST Controller Gauge.

Product Features

- Ideal for carbureted or EFI vehicles
- Easy-to-install Plug & Play harness and sensor included
- 24 green LED display lights provide immediate reference to monitored engine function
- Three digit readout in center
- Each gauge comes with interchangeable black/silver bezels and black/white faceplates
- 0-5V analog output included for use with data loggers and virtually any engine management system
- Auto-dimming gauge face and read out lighting
- Brass sensor included
- Standard 52mm (2-1/16") gauge housing
- 30-4406 displays boost from -30 - 35 PSI
- 30-4408 displays boost from -30 - 50 PSI

30-4406 BOOST PRESSURE GAUGE QUICK START GUIDE



DIGITAL DISPLAY GAUGE

The AEM Digital Display Gauges are designed for easy installation and usability. The 30-4406 Boost Pressure Gauge kit comes with all the necessary components to install and use the gauge. Follow the instructions printed in this quick start sheet to install your gauge and start using it as soon as possible. Visit the "AEM Gauges" section of the AEM electronics forum for more information on the advanced features of this gauge. The forums can be accessed by clicking on the "FORUMS" link on the AEM home page, www.aempower.com.

Gauge Configuration: The gauge bezels are threaded on to the gauge cup. Rotate the bezel in a counter-clockwise direction to remove it from the cup. Once removed, the faceplate can be changed and/or a different bezel can be installed.

Electrical Connection: In order to use the gauge, only the red and black wires need to be connected. The white and blue wires do not need to be connected. Connect the red wire to switched +12V. Connect the black wire to a known good ground. Plug the connector on the harness into the mating connector on the sensor. See the connection diagram below.

The **30-4406** Kit Contains:

- (1) Pressure Gauge assembly
- (1) Pressure Sensor
- (1) Pressure Cable
- (4) Butt Connector
- (1) Silver Bezel
- (1) White Boost Pressure Faceplate
- (1) Instructions

Sensor Installation: The AEM pressure sensor has 1/8"NPT external threads. Install the sensor into a bung with mating threads. *Equation*: $PSIA = 12.5 * (\text{volts}) - 6.25$ scale: $.5v - 4.5v = 0 - 50\text{psia}$

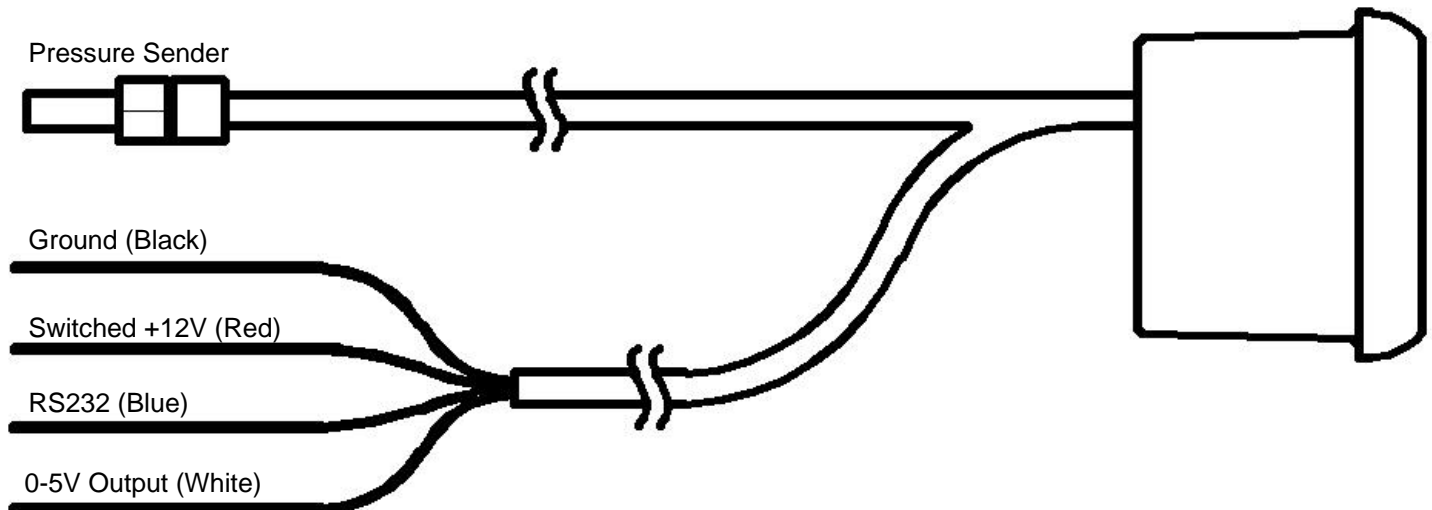


Figure 1. Connection Diagram

ADVANCED ENGINE MANAGEMENT INC.

This product is legal in California for racing vehicles only and should never be used on public highways.
Advanced Engine Management, 2205 126th Street Unit A Hawthorne, CA. 90250, Phone: (310) 484-2322 Fax: (310) 484-0152
Instruction Part Number: 10-4402, © 2006 Advanced Engine Management, Inc.

AEM Electronics Warranty

Advanced Engine Management Inc. warrants to the consumer that all AEM Electronics products will be free from defects in material and workmanship for a period of twelve months from date of the original purchase. Products that fail within this 12-month warranty period will be repaired or replaced when determined by AEM that the product failed due to defects in material or workmanship. This warranty is limited to the repair or replacement of the AEM part. In no event shall this warranty exceed the original purchase price of the AEM part nor shall AEM be responsible for special, incidental or consequential damages or cost incurred due to the failure of this product. Warranty claims to AEM 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. Improper use or installation, accident, abuse, unauthorized repairs or alterations voids this warranty. AEM disclaims any liability for consequential damages due to breach of any written or implied warranty on all products manufactured by AEM. Warranty returns will only be accepted by AEM when accompanied by a valid Return Merchandise Authorization (RMA) number. Product must be received by AEM within 30 days of the date the RMA is issued.

Please note that before AEM can issue an RMA for any electronic product, it is first necessary for the installer or end user to contact the tech line at 1-800-423-0046 to discuss the problem. Most issues can be resolved over the phone. Under no circumstances should a system be returned or a RMA requested before the above process transpires.

AEM will not be responsible for electronic products that are installed incorrectly, installed in a non approved application, misused, or tampered with.

Any AEM electronics product can be returned for repair if it is out of the warranty period. There is a minimum charge of \$50.00 for inspection and diagnosis of AEM electronic parts. Parts used in the repair of AEM electronic components will be extra. AEM will provide an estimate of repairs and receive written or electronic authorization before repairs are made to the product.

30-4408 50 PSI BOOST GAUGE QUICK START GUIDE



DIGITAL DISPLAY GAUGE

The AEM Digital Display Gauges are designed for easy installation and usability. The 30-4408 Boost Pressure Gauge kit comes with all the necessary components to install and use the gauge. Follow the instructions printed in this quick start sheet to install your gauge and start using it as soon as possible. Visit the "AEM Gauges" section of the AEM electronics forum for more information on the advanced features of this gauge. The forums can be accessed by clicking on the "FORUMS" link on the AEM home page, www.aempower.com.

Gauge Display Range: 30inhg vacuum to 50 psi boost.

Gauge Configuration: The gauge bezels are threaded on to the gauge cup. Rotate the bezel in a counter-clockwise direction to remove it from the cup. Once removed, the faceplate can be changed and/or a different bezel can be installed.

Electrical Connection: In order to use the gauge, only the red and black wires need to be connected. The white and blue wires do not need to be connected. Connect the red wire to switched +12V. Connect the black wire to a known good ground. Plug the connector on the harness into the mating connector on the sensor. See the connection diagram below.

The **30-4408** Kit Contains:

- (1) Pressure Gauge assembly
- (1) Pressure Sensor
- (1) Pressure Cable
- (4) Butt Connector
- (1) Silver Bezel
- (1) White Boost Pressure Faceplate
- (1) 1/8 NPT-Hose Barb Boost Fitting
- (1) Tee fitting
- (1) Boost Hose
- (1) Instructions

Sensor Installation: Connect the 1/8 NPT-Hose barb fitting to the pressure sensor. Connect the sensor to a suitable boost line using the supplied Tee fitting and boost hose.

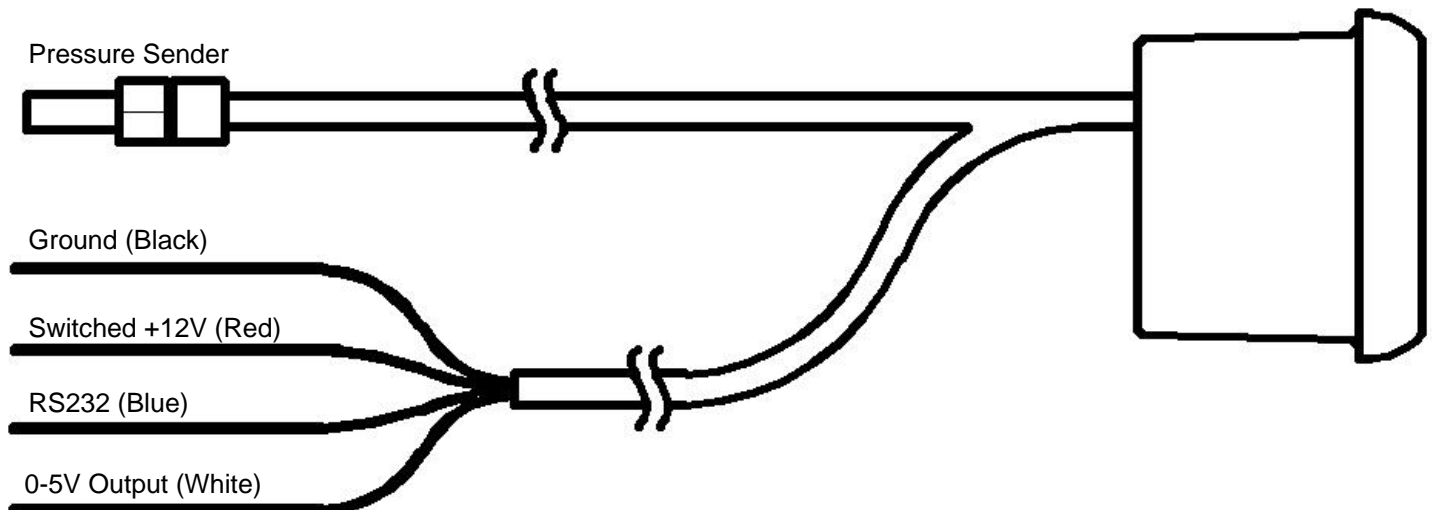


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