

**EL SYSTEM METER SERIES  
ELECTRIC BOOST METER  
INSTRUCTION MANUAL**

Please be sure to read this manual before installation and use.

Thank you for purchasing the BOOST METER.

- \* In order to properly use this unit, please read this instruction manual carefully.
- \* Please store this manual inside of the vehicle for reference.
- \* Please be sure to include this manual and warranty card with the unit when exchanging ownership.

Product Name : BOOST METER  
Product Code : 403-A017 ( Black Face)  
                  : 403-A018 (White Face)  
Function      : Measure Boost Pressure

## **Wiring Procedure**

\*Please see diagram

1. Locate an Ignition power source that produces 12 V in the ON position.

Use a tester to find a wire with:

0 V when the ignition key is turned OFF

12 V when the ignition key is turned ON

2. . Locate a parking light power source that produces 12 V in the ON position.

Use a tester to find a wire with:

0 V when the parking lights are turned OFF

12 V when the parking lights are turned ON

3. Remove the negative terminal of the battery

4. Connect the red wire to the IG wire found in step 1

5. Connect the yellow wire to the parking light wire found in step 2.

6. Connect the black wire to a secure grounding point.

7. The Blue and Orange wires are optional and do not need to be used.

8. Route the sensor harness from the engine room into the vehicle cabin.

9. Connect the pressure sensor connector to the sensor harness connector.

10. Connect the sensor harness and electrical harness to the back of the meter.

11. Mount the gauge.

12. Reconnect the negative terminal of the battery.

### **CAUTION**

\* Please install the BOOST METER and Harness so that it does not interfere with driving.

Normal driving may be impaired if the meter is in the way. This may lead to accidents and is very dangerous.

### **WARNING**

\* Do not mount the BOOST METER in direct sunlight or near any heat source such as heater vents.

The BOOST METER may cause vehicle damage if exposed to heat.

### **WARNING**

\* Do not install the BOOST METER or harness near moving parts.

Mounting the BOOST METER and Harness near moving parts may cause the harness to be cut, thereby causing an electrical short which may cause electrical fire or damage to the unit and vehicle.

## **Sensor Installation**

\*Please see diagram

1. Locate the 4 pi hose going from the surge tank to the fuel pressure regulator.

2. Insert the 3 WAY into the 4 pi hose.

3. Connect the included 4 pi hose to the open side of the 3 WAY.

4. Connect one side of the 4 pi hose to the pressure sensor.

5. Insert the air filter into that 4 pi hose.

6. Mount the pressure sensor.

## **Checkpoints After Installation**

Please check the following points after installation is complete.

1. Are the IG power and Parking light Power sources connected correctly?

2. Are any of the harnesses crushed, kinked, or stretched in an irregular fashion?

3. Is the BOOST METER securely mounted?

4. Is there any air leaking from the boost pressure sensor?

5. Is the negative terminal of the battery securely fastened?

## **Product Feature (Functions)**

### **\* Peak- Hold Memory Function**

1. Function  
Memorizes the highest point of needle movement once the Peak -Hold Memory Function has been reset:
2. Purpose  
Allows the user to see how high the boost pressure rises
3. Operation  
Press the PEAK-HOLD Memory Switch button to toggle between real time and peak-hold modes.  
( The Peak-Hold light will illuminate when in Peak-Hold display mode.)  
Press the PEAK-HOLD Memory switch for longer than 2 seconds to reset the Peak- Hold mode.

### **\* 30 Second Memory Function**

1. Function  
Memorizes 30 seconds of needle movement and offers playback for 30 seconds.
2. Purpose  
It is extremely dangerous to monitor engine boost pressure during driving. This function allows the user to view 30 seconds of needle movement after the vehicle has been stopped.
3. Operation  
Press the MEMORY switch to begin needle movement memorization.  
( The Memory light will illuminate during this time.)  
Drive the vehicle for 30 seconds or press the MEMORY button again to finish recording movement. The Memory light will turn off.  
To replay:  
Press the PEAK-HOLD Switch to put into Peak- Hold Mode  
Press the MEMORY switch at this time ( while the Peak-Hold Memory Switch is lit) to play back the stored data.  
( During Playback, the Peak-Hold LED will light up while the Memory LED blinks on and off.)

### **\* Warning Mode**

1. Function  
Provides an LED warning light and optional signal output for any needle reading below a specified setting.
2. Purpose  
Alerts the driver when boost pressure rises too high without requiring constant monitoring.  
( Warning LED and Out put signal alerts the driver)
3. Operation  
Press the WARNING switch to specify the Warning Preset. ( Warning Preset Mode)  
( The Warning LED will illuminate during Warning Preset Mode)  
Once the gauge is in Warning Preset Mode press:  
PEAK-HOLD Switch to RAISE the warning point  
MEMORY Switch to LOWER the warning point  
Press the WARNING switch to return to normal mode and setup is complete.  
( Be sure that the Warning LED is OFF)

