

# NOTAM

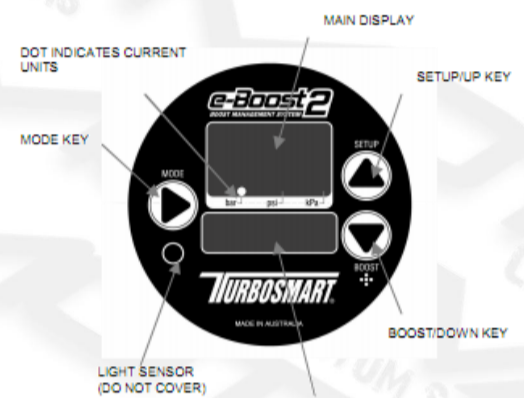
## CUSTOM SOLUTIONS

### Diagnosing the Turbosmart E-Boost 2

The Turbosmart E-Boost2 is a robust and consistent open loop boost control device. Very few E-Boost2 boost controllers ever have to be returned for service or repair under normal operating circumstances. There are occasions in which the proper operation of the Turbosmart E-Boost2 needs to be verified. Follow these steps to determine if the E-Boost2 is functioning properly.

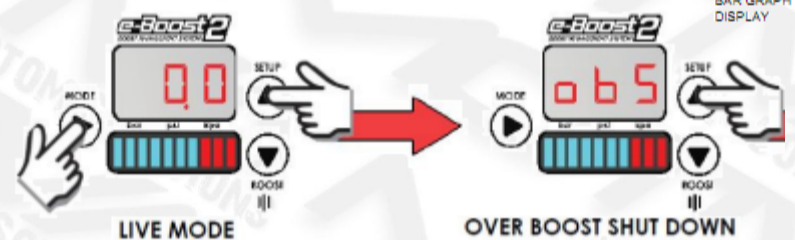
1) Power up the E-boost2 and allow it to cycle through the startup sequence (Do not start engine). After the startup sequence is complete the display should be reading a consistent "0.0"

*-If the display is a negative or positive number **AND** you have verified there is no pressure or vacuum being applied to the E-Boost 2's pressure reference line (pressure connection on rear of unit), please refer to Appendix 1*



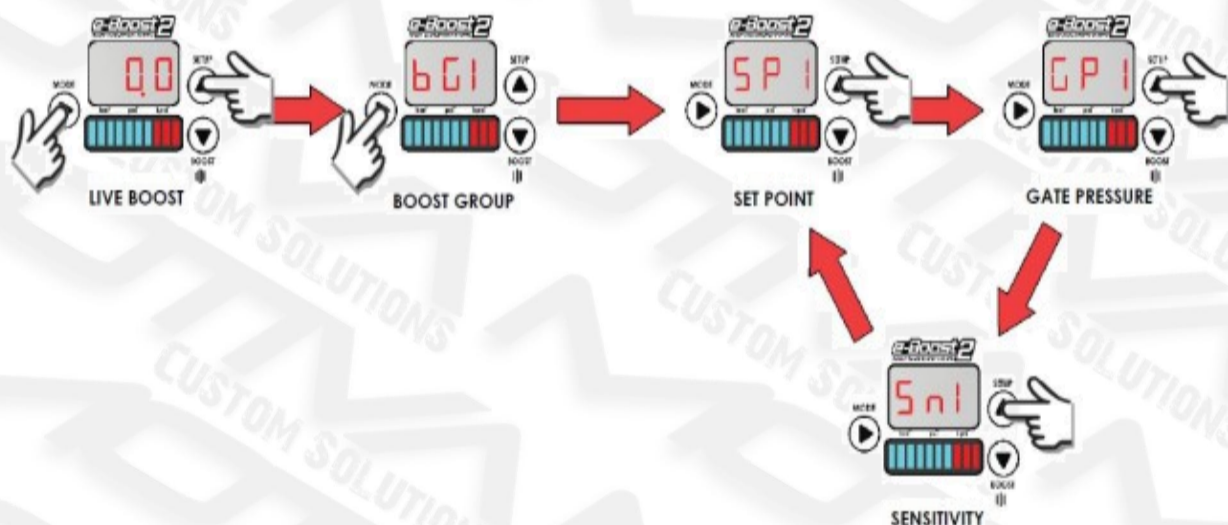
2) After the E-Boost 2 is powered up, hold the **Mode** key and then press **Setup** key. The E-Boost 2 will enter the Setup Menu "obS" or "OVER BOOST SHUTDOWN" will be the first Menu

- Press the **Mode** key on "obS" and set this number to 10
- Press and hold the **Mode** key until the display reads "End"
- Press and hold the **Mode** key again to return to Live Mode
- Power Cycle the E-Boost 2



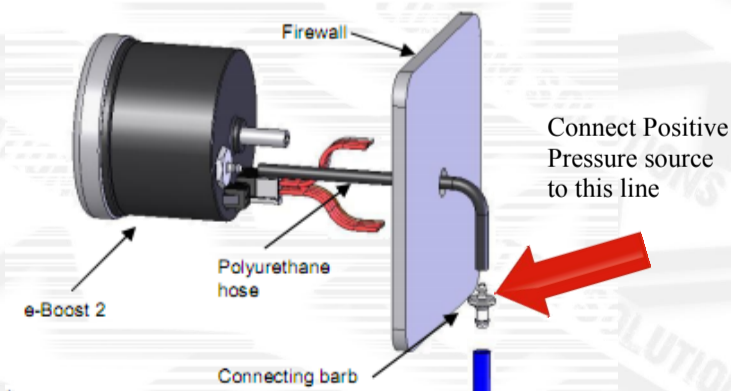
3) When the E-boost 2 returns to Live Mode, hold the **Mode** key and then press the **Boost/Down** key. "bG1" or "Boost Group 1" will be the first Menu

- Press the **Mode** key on "bG1"  
"SP1" or "Set Point 1" will be the first choice
- Press the **Mode** key on "SP1"  
*Write down this number for future use*
- Set "SP1" to 50 then press the **Mode** key
- Press the **Setup** key  
"GP1" will be the next choice
- Press the **Mode** key on "GP1"  
*Write down this number for future use*
- Set "GP1" to 2 then press the **Mode** key
- Press the **Setup** key  
"Sn1" will be the next choice
- Press the **Mode** key on "Sn1"  
*Write down this number for future use*
- Set "Sn1" to 20 then press the **Mode** key
- Press and hold the **Mode** key again to return to "bG1"
- Press and hold the **Mode** key again to return to Live Mode
- Power Cycle the E-Boost 2



4) When the E-boost 2 completes the startup sequence and is complete, attach a positive pressure source (vac/boost hand pump outlet) to the E-Boost 2 pressure reference port found on the backside of the E-Boost 2

- Add pressure to this source. The display of the E-Boost 2 should start climbing in number.
- Increase the pressure until 5.0 is reached and holding steady  
*Now the boost control solenoid should be rapidly clicking. If it is not, verify that a switching 12v signal is present on the solenoid wires.*
- Increase the pressure until 10.0 is reached and exceeded  
*Overboost Shutdown should trigger and "obS" should be flashing on the screen. If it is not repeat Step 2 and verify "obS" is set to 10  
Check the boost control solenoid. It should stop clicking whenever "obS" is flashing and should start clicking again when "obS" stops flashing*



5) If the E-boost solenoid clicks and responds as described the E-Boost 2 head unit is electronically operating correctly and can be considered functional. If problems still persist verify that the boost solenoid is free from oil/dirt/debris and that vacuum connections have been made properly for the intended setup.