



**Buttons:** Blue high recall; White dimming; Red erase high recall. Red and Blue simultaneously Deg F to Deg C.

**Round Warn L.E.Ds:** 12V activation. Shipped with two Green. Red on request.

**Installation Package for Display:**

3 GM Bar Map Sensor and (3) male pins / (3) silicone seals/ and a 3 Bar Weatherpack connector (Black). Term A Purple; Term B White; Term C Yellow.

Four (4) Brazed Barrel Butt Connectors (22-18 Gauge) for the four thermocouple wires. One small 6" length of small shrink tubing to cover the four egt butt crimp connectors. Two lengths of shrink tubing to cover the two pairs of thermocouple wires after the individual butt connectors are covered in shrink tubing.

One length of larger (3/4" wide when flat) shrink tubing to cover the junction of the 3 wire map sensor and other 9 wires. Length of small black fiberglass sheathing to cover the three map sensor wires after they are cut to installed length.

Two (2) 1/4" x 20 x 2" SS Allen bolts and two (2) SS 1/4" x 20 SS hex nuts if longer bolts are necessary.

Two (2) eyelets for grounds. Two (2) ScotchLocks for +12Vdc.

**MAP Sensor Weatherpack Connector:**

Cut the three wires (white, purple, yellow) to length and slip over the black fiberglass sheath provided, leaving 2" of exposed wires. Open Weatherpack connector hasp.

Slip silicone seal on each of the three wires. Strip the wires and crimp the male pin connector to the wire and to the silicone seal. Push the connector and silicone seal into the 3-Pin Connector: Term A Purple; Term B White; Term C Yellow. Close the connector hasp.

**Wiring:** 12 wires six (6) feet long exiting through cnc machined backplate.

1. Red: +12V Dc In (Generally to switched 12VDC).
2. Black: GND. typically Battery negative or good chassis ground.
3. Yellow: Term C MAP (5V).
4. Orange: Rightmost round L.E.D. activation +12VDC.
5. Grey: Rightmost round L.E.D. activation GND.
6. Pink: Leftmost round L.E.D. activation +12VDC.
7. Dark Blue: Right display lead to yellow wire of right thermocouple.
8. Light Blue: Right display lead to red wire of right thermocouple.
9. White: Term B MAP.
10. Purple: MAP GND Term A.
11. Dark Green: Left EGT display lead to yellow wire of left thermocouple.
12. Light Green: Left EGT display lead to red wire of left thermocouple wire.

**FINAL THERMOCOUPLE ASSEMBLY (On Machine):**

a. **Right Thermocouple:** Slip larger shrink wrap on shielded cable to be shrunk over both lead wires (light blue / dark blue).

(1 ) Light Blue lead wire: Prepare by slipping small shrink tube over Light Blue wire. Strip and crimp to red wire of right side Thermocouple wire: Use Brazed Barrel Butt Connector (22-18 Gauge).

(2) Dark Blue lead wire: Prepare by slipping small shrink tube on Dark Blue wire. ...Strip and crimp to yellow wire of right side Thermocouple wire: Use Brazed Barrel Butt Connector (22-18 Gauge).

(3) Shrink two individual wires with and then slip the larger shrink tube from the braided lead over both and shrink the assembly together.

b. **Left Thermocouple:** Slip larger shrink wrap on shielded cable to be shrunk over both lead wires (light green / dark green) after both are individually shrunk.

(1 ) Light Green Lead wire: Prepare by slipping small shrink wrap over Light Green wire. Strip and crimp to red wire of left side Thermocouple wire: Use Brazed Barrel Butt Connector (22-18 Gauge).

(2) Dark Green lead wire: Prepare by slipping small shrink wrap on Dark Green wire. ...Strip and crimp to yellow wire of left side Thermocouple display Thermocouple wire: Use Barrel Butt Connector (22-18 Gauge).

(3) Shrink two individual wires and then slip the larger shrink tube from the braided lead over both and shrink the assembly.