



**B-750**  
115050  
Rev 1: 10/16/02

**GENERAL APPLICATION:**

- ❑ 12-volt DC electrical systems for lighting only (11-16 VDC operating voltage range).

**INSTALLATION TIPS/CAUTIONS:**

- ❑ Do not over tighten the compression fittings used with the nylon tubing. Tighten ¼ turn past snug.
- ❑ When installing this gauge, DO NOT REMOVE existing factory-installed senders (e.g. on engine); use an alternate location or port. Computer controlled engines may trigger a fault code (check engine light) if the factory senders are removed. Consult a factory technician for help.

**NOTE:** Use a grommet when passing wires or tubing through fire-wall to prevent damage.

**NOTE:** Any wire that supplies 12V (ignition, switched, constant, etc.) should be properly FUSED (recommended fuse sizing: 1 amp fuse for a single gauge, 10 amp fuse for a full set) to prevent damage to instruments, or a vehicle fire if wire is short-circuited.

**EQUIPMENT:**

- ❑ 18-gauge wire
- ❑ Red "barrel" crimp connectors
- ❑ Wire crimper/cutter
- ❑ Thread sealing compound or tape

**Installation Instructions**  
*2" and 2-5/8" Mechanical Gauges*

**PRECAUTIONS:**

- ❑ Mechanical fuel pressure gauges **MUST NOT** be mounted inside the vehicle. Use a mounting cup to mount the gauge outside of the vehicle on the cowl in front of the windshield.
- ❑ Read ALL instructions before installing instrument.
- ❑ Follow ALL safety precautions when working on vehicle-wear safety glasses!
- ❑ ALWAYS disconnect (-) negative battery cable before making electrical connections for the lighting.

**HELP?:**

- ❑ If after reading these instructions you don't fully understand how to install your instrument(s), contact your local Stewart Warner distributor, or contact our Technical Support Team at **1-866-797-7223**.
- ❑ Additional applications information may be found at [www.SW-Performance.com](http://www.SW-Performance.com).

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**GAUGE MOUNTING (Figure 1):**

**NOTE:** Instructions apply to 2" & 2-5/8" gauges (nominal SAE diameters). Be careful when making panel cut-out!

- ❑ Recommended panel cut-out (hole size) for 2" nominal gauge is 2.098" +/- .02".
- ❑ Recommended panel cut-out (hole size) for 2-5/8" nominal gauge is 2.670" +/- .03".
- ❑ Secure the gauge in the hole using the supplied retaining bracket, lock washers and #8-32 nuts. Maximum torque for mounting screws is 6 in. lbs.

**TIP:** It may be easier to pre-wire lighting and make all connections before final mounting!

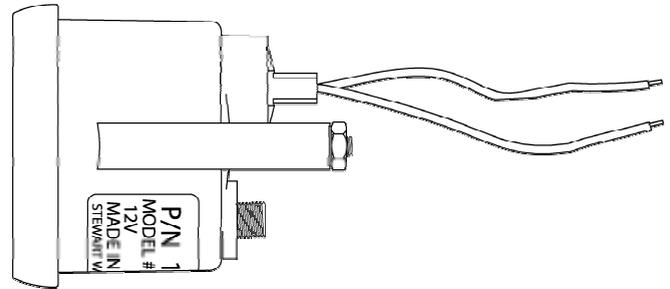


Figure 1

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**PRESSURE, VACUUM, & BOOST SET-UP (Figure 2):**

1. Disconnect negative (-) battery cable.
2. Drill a 3/8" diameter hole and install supplied grommet where the tubing passes through the firewall.
3. Connect and tighten the nylon tubing to the back of the gauge using the supplied 1/8" compression fitting adapter.
4. Route the tubing to the engine compartment and connect to the pressure/vacuum port using the supplied 1/8" compression fitting adapter. Use the supplied 1/4" NPT X 1/8" NPT adapter if necessary.

**NOTE:** When installing a pressure gauge, adapters and braided lines may be needed. Refer to the catalog for additional accessories.

5. When routing tubing, protect from damage due to sharp edges, moving parts, and hot engine components.
6. Connect one (1) of the light wires (**WHITE**) to the dash lighting circuit or to a +12V switched circuit.
7. Connect other light wire (**BLACK**) to chassis ground.
8. Double check all mechanical and electrical connections, then reconnect the negative (-) battery cable and test instrument to ensure that it is working. Thoroughly check installation for leaks.

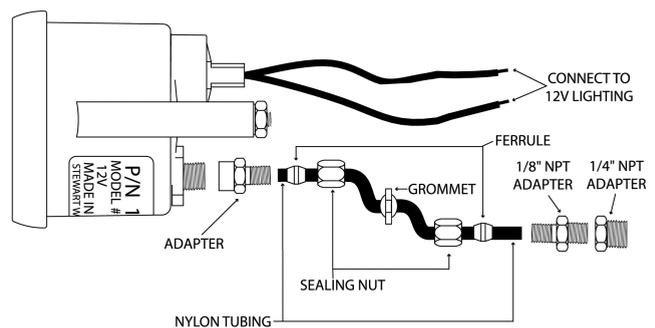


Figure 2

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### **TEMPERATURE GAUGE SET-UP (Figure 3):**

1. Disconnect negative (-) battery cable.
2. Drill a 7/8" hole in firewall.
3. **Do not** cut capillary tubing!
4. Carefully route capillary tubing through hole, then cover hole with provided grommet to protect the capillary tube.
5. For coolant temperature, install the 1/2" NPT mounting adapter in the engine's coolant port using a sealing compound or tape.
6. Insert the sensing bulb in the mounting adapter and lock in place by tightening the retaining nut.
7. Connect one (1) of the light wires (**WHITE**) to the dash lighting circuit or to a +12V switched circuit.
8. When routing sensing bulb tubing, protect from damage due to sharp edges, moving parts, and hot engine components.
9. Connect other light wire (**BLACK**) to chassis ground.
9. Double check all mechanical and electrical connections, then reconnect the negative (-) battery cable and test instrument to ensure that it is working. Thoroughly check installation for leaks.

### **TEMPERATURE BULB INSTALLATION TIPS:**

- ❑ Install Temperature sender in appropriate water, engine oil, or transmission oil port.
- ❑ When installing temperature sender, be sure there is sufficient clearance in the port so the sender bulb is not damaged when it is tightened. If there is not sufficient depth, an extender may be needed. Refer to the catalog for additional accessories.
- ❑ For engine oil temperature or transmission oil temperature, drill a hole in the appropriate oil pan and braze the 1/2" NPT fitting into the hole.
- ❑ Be sure to check for internal clearances because the sensing bulb will protrude inside the engine, water jacket, or transmission. Use of an extension adapter may be required for proper clearances. Refer to the catalog for all accessories.

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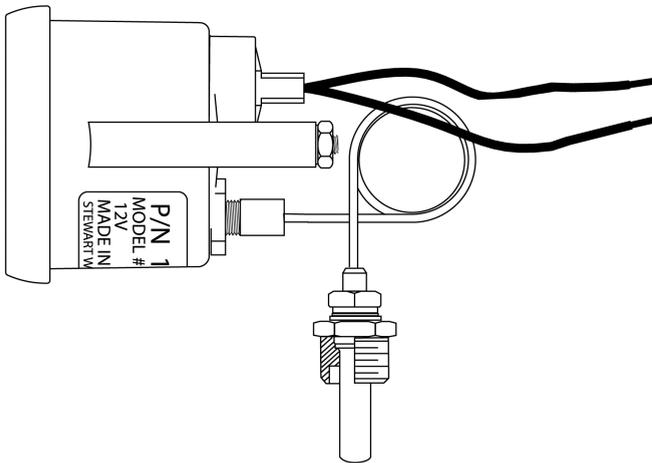


Figure 3

### **CAPILLARY TUBE WARNINGS:**

- ❑ Do not bend capillary tubing within the first 4" on either end. If you absolutely must bend it, bend as far away from the ends as possible and make sure that you allow for an absolute minimum of a 1" radius in the bend.
- ❑ When binding excess tubing only wrap it in a coil-like fashion and ensure that the coil has at least a 2" diameter.
- ❑ Do not route tubing near excessive heat sources or any moving components that may cause damage.

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### **CLEANING DIRECTIONS:**

- ❑ For proper cleaning of instrumentation/accessories, use a glass cleaner or mild detergent with a spray on and wipe method.

### **WARRANTY INFORMATION:**

**TWO (2) YEAR LIMITED WARRANTY.** SWP products are warranted against defects in workmanship and materials for a period of two (2) years from the date of purchase. Proof-of-purchase is required; otherwise, the warranty period shall default to two (2) years from date-of-manufacture (as indicated by the date code on the product). See detailed Warranty Policy for other Terms & Conditions.

STEWART WARNER PERFORMANCE

1-866-SWP-RACE (797-7223)

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