

Installation Instructions

2" and 2 5/8" Electric Gauges

PRECAUTIONS:

- 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

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 toll free at **1-866-797-7223 (SWP-RACE)**.
- Additional applications information *www.SW-Performance.com*. may be found at

GENERAL APPLICATION:

12-volt DC negative (-) ground electrical systems only (11-16 VDC operating voltage range).

SENDER INSTALLATION TIPS/CAUTIONS:

- Sender is grounded through its threads to the engine. DO NOT use sealing tape on threads. Instead, use a thread sealing compound to prevent leaks.
- When installing this gauge, DO NOT remove existing factoryinstalled 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.
- Disconnect negative (-) battery cable before making electrical connections. Incorrect wiring may damage sender or cause personal injury. Stewart Warner Performance recommends that qualified automotive technicians perform installations.

NOTE: Use a grommet when passing wires through firewall to prevent wires from being damaged.

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 "eye" crimp connectors
- Wire crimper/cutter

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- PRESSURE GAUGE WIRING (Figure 2):
- Disconnect negative (-) battery cable. Using 18-ga. wire, connect the (-) terminal to a clean 2.
- (rust/paint-free) engine ground near the oil pressure sender Using 18-ga. wire, connect the (+) terminal to a switched +12V 3 source.
- Using 18-ga. wire, connect the (S) sender terminal of the 4. gauge to the pressure sender.
- Connect one (1) of the light wires (WHITE) to the dash lighting 5 circuit or to a +12V switched circuit.
- Connect other light wire (BLACK) to chassis ground. 6
- 7. Double check all connections, then reconnect the negative (-) battery cable & test instrument to ensure that it is working.

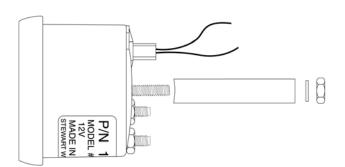
PRESSURE SENDER INSTALLATION:

- Install pressure sender in appropriate pressure port. Use a wrench on the hex portion of the sender to tighten.
- If sender is used in a high-vibration environment such as a full race engine, it is recommended to isolate the sender by remotely mounting it to the firewall or fender well.
- To ensure proper grounding with isolated mounting, only use Stewart Warner Performance SS braided hose. See catalog.
- Some installations may require an adapter bushing. See catalog or web site for adapters.

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B-749 115049 **GAUGE MOUNTING (Figure 1):** NOTE: Instructions apply to 2" & 2-5/8" gauges (nominal SAE diameters). Be careful when making panel cutout!

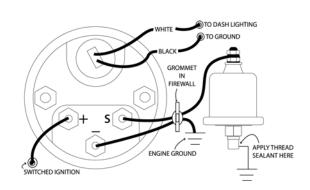
- Recommended panel cutout (hole size) for 2" nominal gauge is 2.098" +/- .02"
- Recommended panel cutout (hole size) for 2-5/8" nominal gauge is 2.670" +/- .03"
- Secure the gauge in the hole using the supplied retaining bracket, lock washers and #8-32 nuts. Maximum torque for mounting screws is 6 in. lbs
- TIP: It may be easier to pre-wire gauge before installing!



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Figure 1

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TEMPERATURE GAUGE WIRING (Figure 3):

1. Disconnect negative (-) battery cable.

- Using 18-ga. wire, connect the (-) terminal to a clean (rust/paint-free) ground surface near the temperature sender. 2.
- Using 18-ga. wire, connect the (+) terminal to a switched 3. +12V source.
- Using 18-ga. wire, connect the (S) sender terminal of the 4. gauge to the temperature sender.
- Connect one (1) of the light wires (WHITE) to the dash lighting circuit or to a +12V switched circuit. Connect other light wire (BLACK) to chassis ground. 5
- 6.
- Double check all connections, then reconnect the negative (-) 7. battery cable & test instrument to ensure that it is working. TEMPERATURE SENDER INSTALLATION:

Install Temperature sender in appropriate water, engine oil, or transmission oil port.

- Use a wrench on the hex portion of the sender to tighten.
- When installing temperature sender, be sure there is sufficient clearance in the port so the sender is not damaged when it is tightened or by internal moving parts.
- If the sender is to be used in an oil pan where there is no port, drill a hole, braze the provided adapter into the oil pan, and install the sender in the adapter.

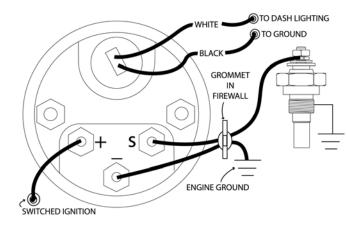
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FUEL LEVEL GAUGE WIRING (Figure 4):

- Disconnect negative (-) battery cable Using 18-ga. wire, connect the (-) terminal to a clean 2. (rust/paint-free) fuel tank ground.
- Using 18 gauge wire, connect the (+) terminal to a switched 3. +12V source.
- 4 Using 18-gauge wire, connect the (S) sender terminal of the gauge to the fuel level sender.
- Connect one (1) of the light wires (WHITE) to the dash lighting circuit or to a +12V switched circuit. 5.
- Connect other light wire (BLACK) to chassis ground. 6 Double check all connections, then reconnect the negative (-) 7.

battery cable & test instrument to ensure that it is working.		
	Sender Resistance (Ohms)	

Vehicles		
	Empty	Full
Stewart Warner Performance	240	33
GM before '65	0	30
GM '65 to present	0	90
Ford and Chrysler vehicles	73	10
Ford Vehicles '87 to present	16	158





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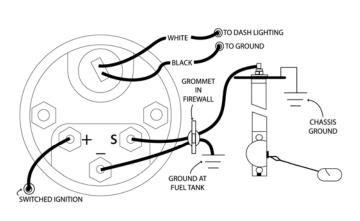
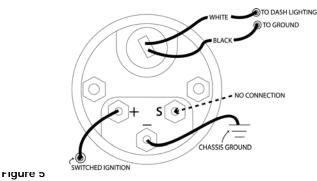


Figure 4

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- VOLTMETER WIRING (Figure 5):
- Using 18-ga. wire, connect the (-) terminal to a clean (rust/paint-free) ground.
- 2 Using 18 gauge wire, connect the (+) terminal to a switched +12V source; This is the voltage that the gauge will indicate.
- Connect one (1) of the light wires (WHITE) to the dash lighting 3 circuit or to a +12V switched circuit.
- Connect other light wire (BLACK) to chassis ground. 4 Double check all connections, then reconnect the negative (-) 5. battery cable & test instrument to ensure that it is working.



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WARRANTY INFORMATION:

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cleaner or mild detergent with a spray on and wipe method.

For proper cleaning of instrumentation/accessories, use a glass

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) www.stewartwarner.com

CLEANING DIRECTIONS:



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