



CAUTION FOR ALL GAUGE INSTALLATION

As a safety precaution, the +12V wire attached to the positive I (+) terminal of the gauge should be fused before connecting to the positive (+) output of the ignition switch. We recommend using a 4 Amp, 3 AG fast-acting type cartridge fuse (Littlefuse® # 312 004 or an equivalent) inline between the power supply source and the I (+) terminal on the gauge.

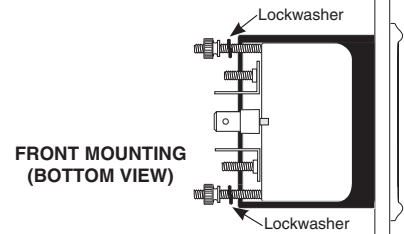
NOTE: Some late model vehicles use electronic sensors in their pressure and temperature senders for engine control functions. Before removing the original sender, we recommend that you contact your automotive dealer to be sure no critical functions will be disrupted. With pressure gauges it is beneficial to add a T-fitting to install your new gauge and to keep the warning light operational. This allows you to monitor the pressure and still have a warning light to indicate emergency conditions.

NOTE: Disconnect negative (-) battery cable before installation.

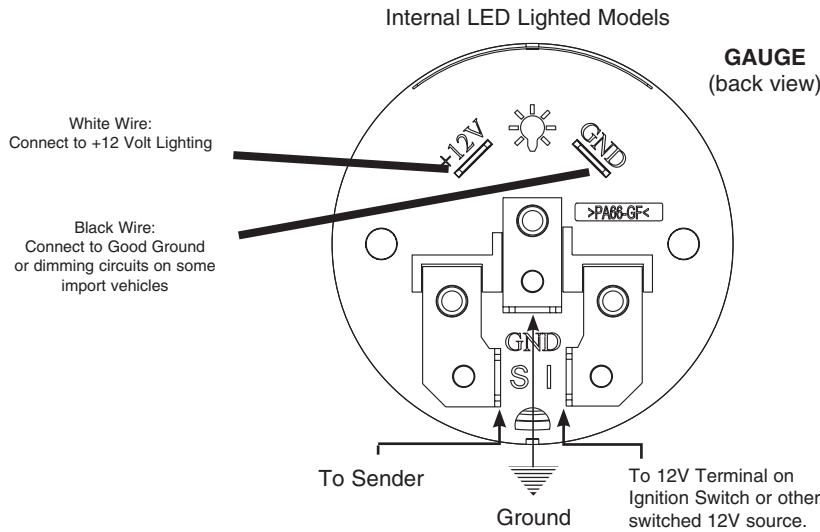
CAUTION: Do not touch ignition wire to the sender (S) terminal on back of gauge or the sender may be damaged.

Mounting

52mm diameter gauges mount in 52.4mm hole. Fasten with brackets supplied as shown. (Hookup wire is required.) To assure proper functioning of this instrument, please read guide thoroughly before installing.



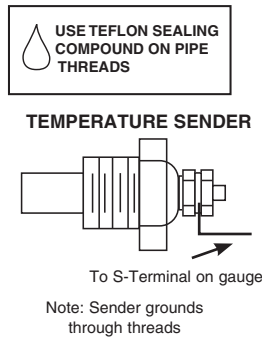
Wiring



Temperature Gauges

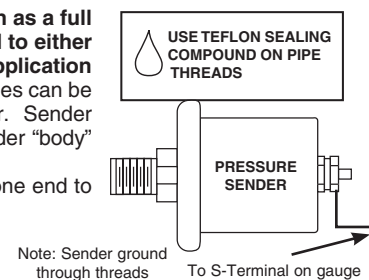
1. Install temperature sender.
 - A. Water Temp: Install temperature sender (included). Purchase of additional fittings such as hose adapters may be required.
 - B. Oil & Trans. Temp: Hole may have to be drilled and adapter nut (included) welded or brazed in pan. Be sure there is adequate internal clearance for nut and sender. Sender should automatically be grounded when installed. If not, proper ground connections should be made.
2. Route 18-gauge wire through firewall. If a new hole is drilled in the firewall a grommet is recommended. Connect one end to terminal post on temperature sender, and opposite end to sender (S) terminal on back of gauge.
3. Route 18-gauge wire from center terminal GND (-) on back of gauge to good ground near sender.
4. Connect wire from ignition switch to ignition (I) terminal on back of gauge.
5. Reconnect negative (-) battery cable.

Note: Sending unit thread pitch is M10x1 on Metric scaled gauges and 1/8" NPT on English scaled gauges.



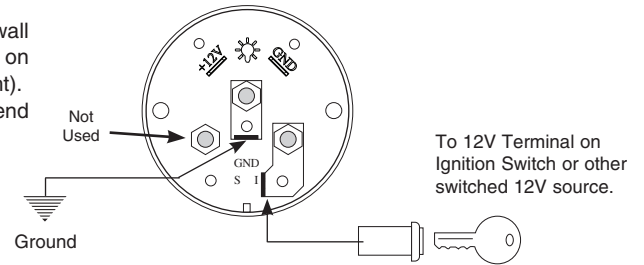
Pressure Gauges

1. Install sender into pressure port of appropriate type. **If unit is to be installed on a high vibration application such as a full race engine or engine capable of high RPM, it is strongly recommended that the sender be remote mounted to either the footwell or firewall, to insulate from vibration. Failure to remote-locate pressure senders on such an application could result in gauge failure and potential damage to vehicle and/or operator injury.** Braided stainless steel lines can be used to accomplish this. Sender features 1/8" NPT male fitting and comes with 1/4" NPT adapter or M10 x 1 adapter. Sender must be grounded when installed. If not, or if remote relocation of sender is required, a ground connection to sender "body" will need to be made.
2. Route 18-gauge wire through firewall. If a new hole is drilled in the firewall a grommet is recommended. Connect one end to terminal post on pressure sender, and opposite end to sender (S) terminal on back of gauge.
3. Connect wire from center terminal GND (-) on back of gauge to good engine ground near sender.
4. Connect wire from ignition switch to ignition (I) terminal on back of gauge.
5. Reconnect negative (-) battery cable.



Voltmeter

1. Using 18 gauge wire, route one length through firewall. If a new hole is drilled in the firewall a grommet is recommended. Attach one end to the negative GND (-) spade terminal on back of gauge, and the opposite end to a good engine ground. (See illustration at right).
2. Attach one length of wire to the positive I (+) terminal on back of gauge and opposite end to 12V terminal on ignition switch or other 12V power source.
3. Reconnect negative (-) battery cable.



Questions?

If you have questions regarding the operation or installation of your instrument(s), please contact STACK +44 (0) 1869 240404
You may also email us at sales@stackltd.com.
Additional information can also be found at <http://www.stackltd.com>

SERVICE

For service send your product to STACK in a well packed shipping carton. Please include a note explaining what the problem is along with your phone number. Please specify when you need the product back. If you need it back immediately mark the outside of the box "PRIORITY REPAIR," and STACK will service product within two days after receiving it. (£5.00 charge will be added to the cost of "PRIORITY REPAIR.") If you are sending product back for Warranty adjustment, you must include a copy (or original) of your sales receipt from the place of purchase.

12 MONTH LIMITED WARRANTY

STACK, Ltd. warrants to the consumer that all STACK products will be free from defects in material and workmanship for a period of twelve (12) months from date of the original purchase. Products that fail within this 12 month warranty period will be repaired or replaced at STACK's option to the consumer, when it is determined by STACK, Ltd. that the product failed due to defects in material or workmanship. This warranty is limited to the repair or replacement of parts in the STACK instruments. In no event shall this warranty exceed the original purchase price of the STACK instruments nor shall STACK, Ltd. be responsible for special, incidental or consequential damages or costs incurred due to the failure of this product. Warranty claims to STACK must be transportation prepaid and accompanied with dated proof of purchase. This warranty applies only to the original purchaser of product and is non-transferable. All implied warranties shall be limited in duration to the said 12 month warranty period. Breaking the instrument seal, improper use or installation, accident, water damage, abuse, unauthorized repairs or alterations voids this warranty. STACK, Ltd. disclaims any liability for consequential damages due to breach of any written or implied warranty on all products manufactured by STACK.

FOR COMPLETE OPERATIONS GUIDE PLEASE VISIT: WWW.STACKLTD.COM

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