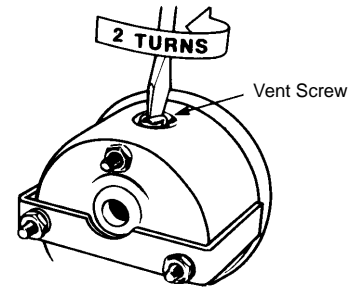


Equalizing the Gauge

Thank you for purchasing Auto Meter's Pro-Comp Liquid-Filled gauge. This sophisticated mechanical instrument houses a special vibration dampening fluid. The bourdon tube mechanism has been factory calibrated for 2% full scale accuracy. Your Pro-Comp Liquid-Filled gauge will remain in top operating condition because of its unique design. Please follow the installation instructions carefully to insure the prolonged life of your gauge.

With vent screw in upright position, turn screw two turns counterclockwise to equalize gauge case pressure. This allows the gauge to breathe through thread clearances and to self-adjust to changes in altitude, barometric pressure and temperature.

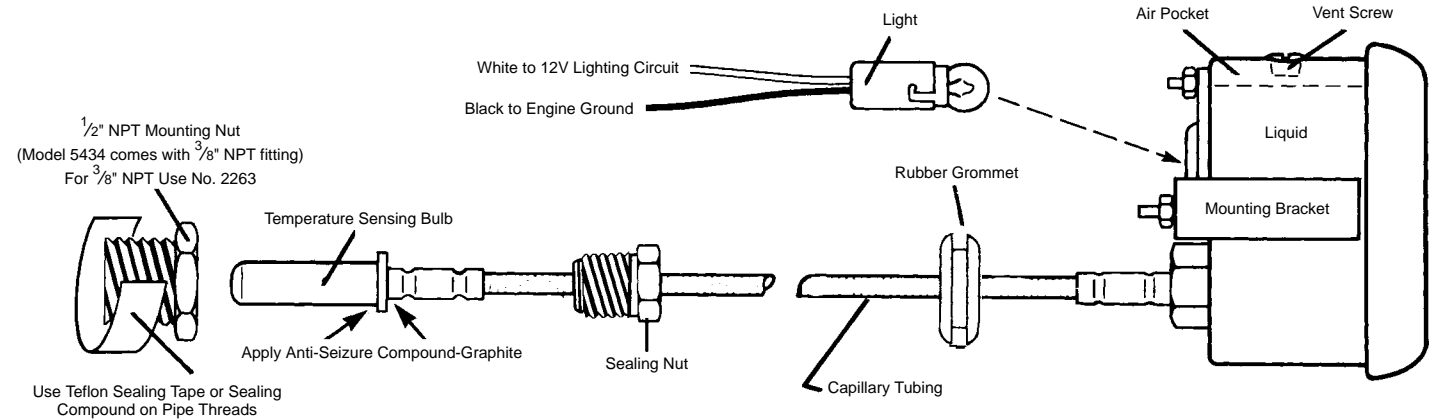
NOTE: Extreme vibration and shock may cause gauge fluid to leak through vent screw. DO NOT over tighten. If vent screw is tightened, consult the chart at right. If necessary, bleed gauge after altitude or temperature change.



IMPORTANT:
Fluid splashed on the vent screw may cause self sealing of threads. When this happens, it may be necessary to completely remove the vent screw and re-install to equalize the gauge.

GAUGE READING	CONDITION
1 PSI Low	30° F. Temp. Rise
1 PSI High	2000 ft. Altitude Increase

Temperature



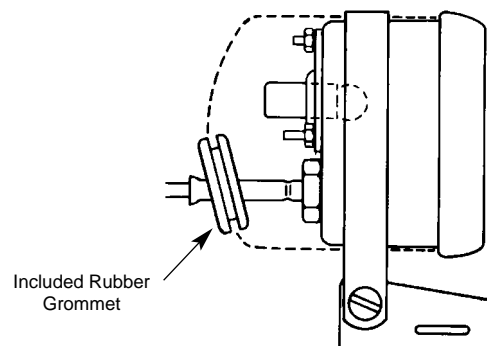
1. Install gauge in 2⁵/₈" dia. dashboard hole using mounting bracket to secure gauge, or use Auto Meter under dash panels no. 3231, 3232 or 3233, or use Auto Meter mounting cups no. 5201 or 5202.
2. Cut a 7/8" dia. hole in firewall. Route temperature sensing bulb through hole to engine compartment. Slit rubber grommet provided and position in firewall hole so gauge tubing is held firmly in place.
3. Thread mounting nut into the 1/2" NPT port on engine. For engines with 3/8" NPT ports, use Auto Meter adapter no. 2263. Insert temperature sensing bulb in mounting nut and carefully tighten sealing nut. Make sure tubing is free from moving parts or hot engine components. The oil temperature gauges, and trans. temp gauge require drilling a hole and brazing the 1/2" NPT mounting into their respective oil pans. For welding use Auto Meter steel weld fitting no. 2261. Check for adequate internal clearances for temperature sensing bulb in the oil pan before drilling any holes.

- NOTE:** Use teflon sealing tape or sealing compound to assure proper seal on all pipe thread joints (NPTF). Apply an anti seizure compound-graphite to the temperature sensor bulb to avoid seizure to the sealing nut.
4. To use remote transmission temperature adapter no. 2286 (3/8" tubing) or 2287 (5/16" tubing), mount adapter in transmission line leading from transmission with compression and NPT fittings provided.
 5. Start engine and inspect installation for any leaks.
 6. Connect WHITE light wire to dash lighting circuit or to other 12V source. Connect BLACK light wire to a good engine ground.

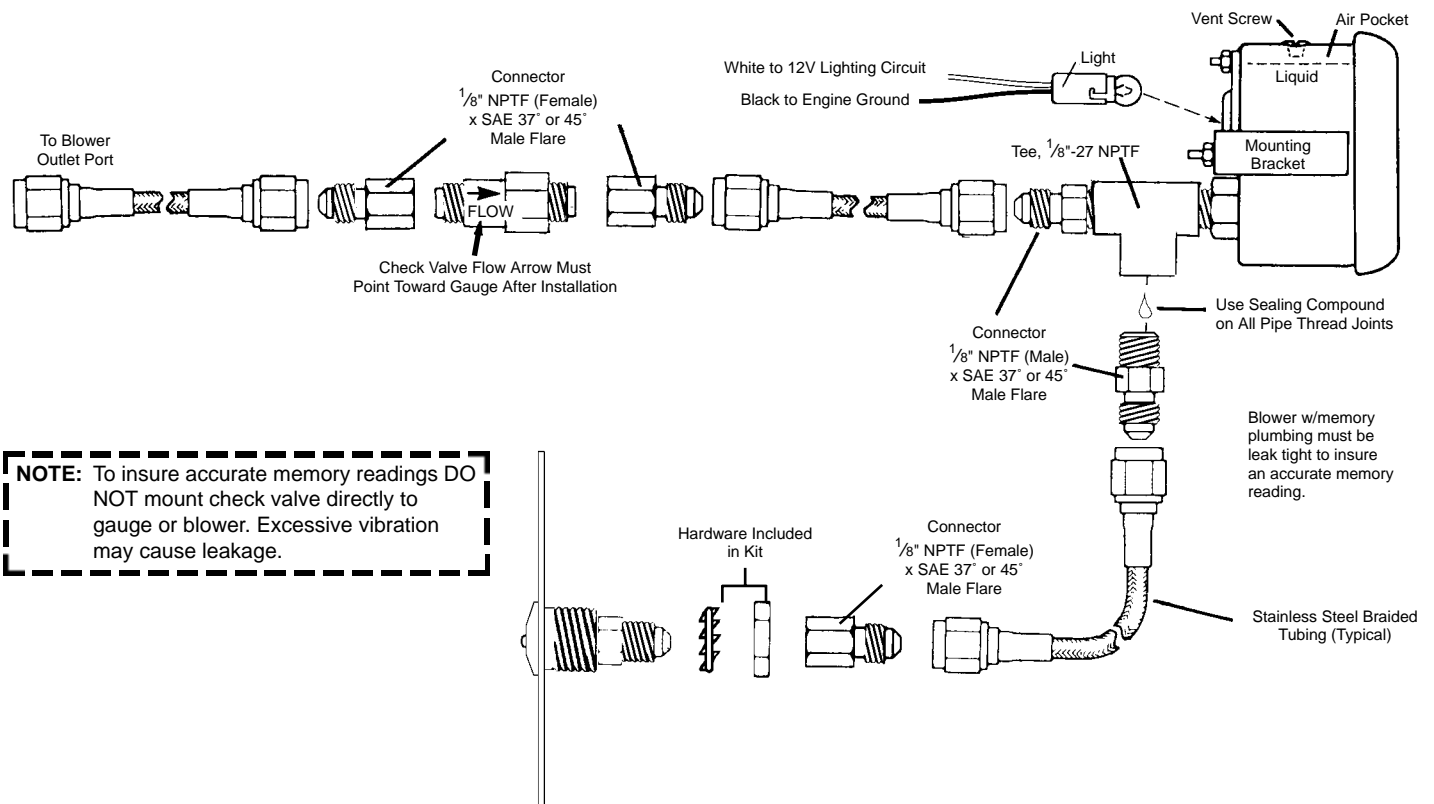
IMPORTANT:
To remove the temperature sensing bulb, loosen the sealing nut without allowing the mounting nut to rotate. Failure to follow this procedure may result in internally broken capillary tubing, voiding the warranty.

Optional Mounting Cup (Temperature Gauges)

These mounting cups allow capillary tubing on temperature gauges to exit out back as shown. It is important not to make severe bends in tubing or it may break, thus, voiding the warranty.



Blower with Memory

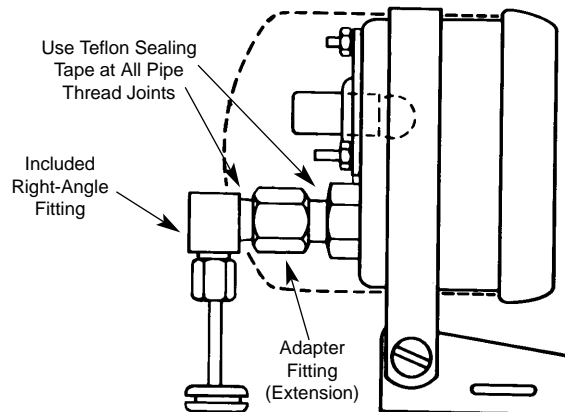


NOTE: To insure accurate memory readings DO NOT mount check valve directly to gauge or blower. Excessive vibration may cause leakage.

- Secure two $\frac{1}{8}$ "-27 NPTF x #4 SAE 37° or 45° flare connectors to the $\frac{1}{8}$ "-27 NPTF tee as shown in the installation above.
NOTE: The connector flare (37° or 45°) must be compatible with the ends on the stainless steel braided tubing. Auto Meter braided stainless steel tubing no. 3227 and 3228 include #4 SAE 37° flare female swivel ends.
- Secure the tee from Step 1 to the gauge port. Position the tee so the gauge fits through a $2\frac{3}{8}$ " mounting hole.
NOTE: Use sealing compound to assure proper seal on all pipe thread joints (NPTF).
- Install gauge in $2\frac{5}{8}$ " dia. dashboard hole using mounting bracket provided to secure gauge, or use Auto Meter under dash panels no. 3231, 3232 or 3233. Tighten tee in desired direction.
- Drill $\frac{3}{8}$ " dia. hole and install rubber grommet where pressure line passes through firewall into engine compartment.
- Secure two $\frac{1}{8}$ "-27 NPTF female x SAE 37° or 45° male flare connectors to the check valve as shown above. Secure the check valve and connector assembly to one end of a length of braided stainless steel tubing.
NOTE: The arrow on the check valve must be pointing toward the tubing as shown in the diagram above.
- Secure the opposite end of the tubing and check valve assembly to the tee on the back of the gauge.
- Route the pressure line through the firewall into the engine compartment. Connect another length of braided stainless steel tubing between the check valve and the blower outlet port.
NOTE: Keep line clear of moving parts or hot engine components.
- Secure a $\frac{1}{8}$ "-27 NPTF male x SAE 37° or 45° male flare connector to the bleed valve.
- Using the nut and lock washer provided, secure the bleed valve and connector assembly in-dash or wherever it is convenient for the driver.
- Connect length of braided stainless steel tubing between the tee on back of gauge and the bleed valve.
- Start engine and thoroughly check for any leaks. When engine is shut off, gauge should not leak down until bleed valve is pushed. If gauge leaks, check and tighten all connections.
- Connect the WHITE light wire to dash lighting circuit or other 12V source. Connect the BLACK light wire to a good engine ground.

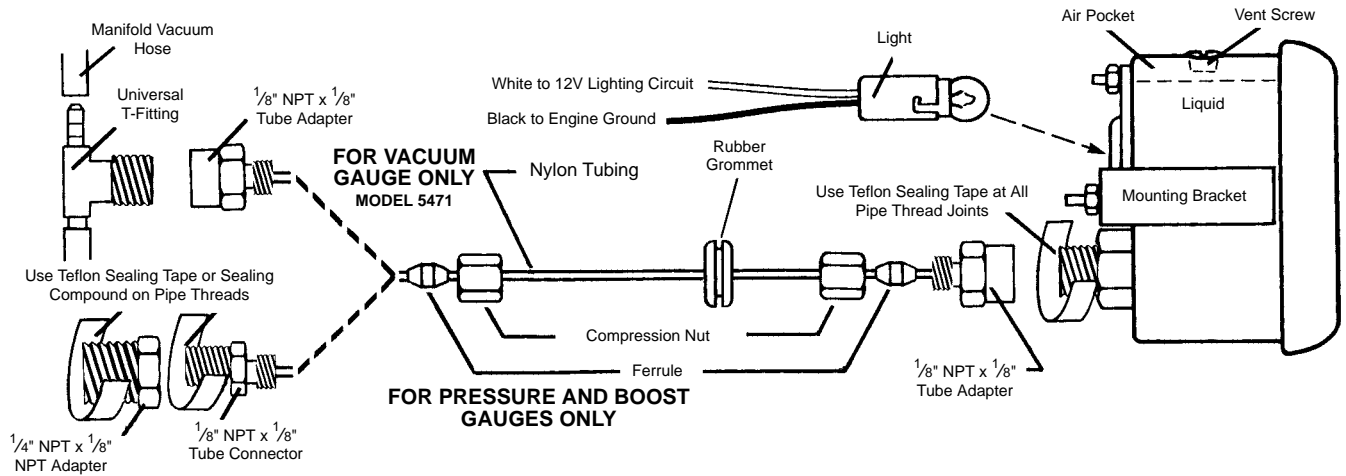
Optional Mounting Cup (Pressure and Vacuum Gauges)

Use included Adapter and Right-Angle Fittings to extend outside the Cup.
(For Fuel Pressure see page 4.)



Pressure, Vacuum & Boost

(For high pressure gauges (300 - 600 psi) use only braided stainless steel line.)



1. Gauge can be mounted in 2⁵/₈" dia. dashboard hole using mounting bracket to secure gauge, or use Auto Meter under dash panel no. 3231, 3232, 3233 or Auto Meter mounting cups no. 5201 or 5202.
2. Drill a 3³/₈" dia. hole and install rubber grommet where pressure or vacuum line pass through sheet metal such as the firewall.
3. For pressure models attach nylon pressure line (or Auto Meter copper tubing no. 3224, 3225, or Auto Meter braided stainless steel tubing no. 3227, 3228) to port on back of gauge. For high pressure gauges (300-600 psi) attach copper tubing (Auto Meter no. 3224, 3225) or braided stainless steel (Auto Meter no. 3227, 3228) to port on back of gauge. Route line through grommet to engine compartment. For boost gauges connect the line to the downstream side of the turbo. For blower gauges connect the line to the blower outlet port. For pressure gauges connect the line to the

appropriate pressure port on the engine. For vacuum gauges connect the line to a manifold vacuum line using the fittings provided with the gauge and tubing kits. If a 300 psi or higher pressure gauge is used to monitor fuel pressure, braided stainless steel line **MUST** be used. **DO NOT USE NYLON TUBING OR COMPRESSION FITTINGS.**

NOTE: Use teflon sealing tape or sealing compound to assure proper seal on all pipe thread joints (NPTF).

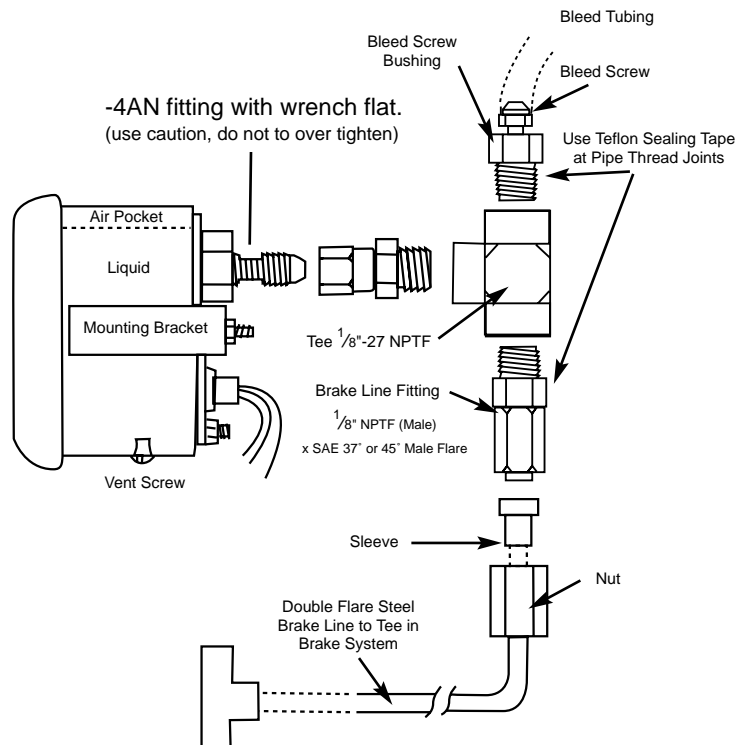
4. Make sure line is free from moving parts or hot engine components. Where potential hazard exists, Auto Meter braided stainless steel line (no. 3227 or 3228) is recommended.
5. Start engine and inspect installation for any leaks.
6. Connect **WHITE** light wire to dash lighting circuit or to other 12V source. Connect **BLACK** light wire to a good engine ground.

Brake Pressure

WARNING:

ONLY double flared steel brake line may be used to install this gauge. All fittings you use must have a minimum working pressure of 2000 PSI.

1. **If you are not familiar with proper brake system bleeding procedure, do not install this gauge. Have a qualified mechanic do it for you.**
2. Install gauge in 2⁵/₈" dia. dashboard hole or use under dash panels. Secure gauge with the mounting bracket provided. **NOTE:** If alternate gauge mounting is used other than in-dash or under dash, mounting provisions may have to be determined by the installer.
3. Secure bleed screw, bleed screw bushing, and brake line fitting to the tee provided with the gauge as shown above.
4. Secure the tee assembly from Step 3 to the gauge port. Be sure not to over tighten as this can cause the movement to loosen in the case.
5. Install a tee at the brake system location suitable for your application.
6. Install steel double flare brake line between gauge and tee.
7. Connect **WHITE** light wire to the dash lighting circuit or other 12V source. Connect the **BLACK** light wire to a suitable ground.
8. Bleed your gauge and brake system using standard brake bleeding procedure. **If you are not familiar with brake bleeding procedure, have a qualified mechanic install this gauge for you.**



Fuel Pressure

WARNING: If pressure gauge is used in a fuel application, the gauge must be mounted outside of the vehicle. This will prevent the possibility of a gas fume explosion in the vehicle interior.

IMPORTANT: Both the 0-15 and 0-100 PSI Fuel Pressure Gauges must be mounted outside the vehicle unless an Auto Meter Fuel Gauge Isolator is used in conjunction with the Gauge. This is required to prevent the possibility of fire or explosion in the vehicle's interior.

To Mount Inside of Vehicle:

0-15 PSI

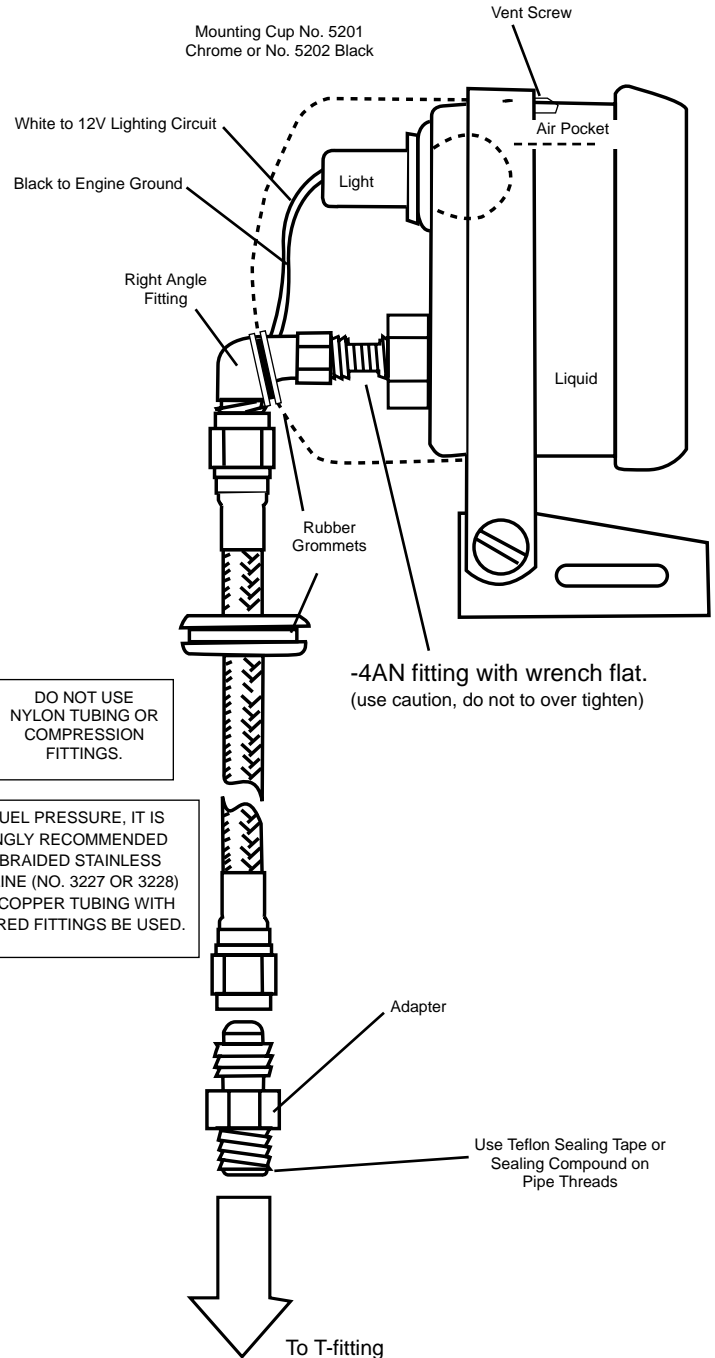
Use Model 5413 Gauge - includes 0-15 PSI Gauge and isolator.

0-100 PSI

Use Model 5412 Gauge 0-100 PSI plus Model 5282 Isolator.

To Mount Outside of Vehicle:

1. Determine best location for mounting the Fuel Pressure gauge outside of the vehicle. Mounting cup kit 5201 or 5202 is recommended for mounting gauges on vehicle's cowl in front of windshield. Drill necessary hole and install rubber grommet where pressure line passes through sheet metal.
2. -4AN braided stainless steel tubing is recommended because of the highly flammable nature of racing fuel. Use Auto Meter kit 3227 or 3228. DO NOT USE NYLON OR COPPER TUBING WITH COMPRESSION FITTINGS.
3. Route pressure line through grommet to engine compartment, keeping line free from hot engine components or moving parts. Plumb line into vehicle's fuel line. Be sure to use teflon sealing tape on all tapered threads for a good seal.
4. Start engine and thoroughly check for any leaks.
5. Connect WHITE light wire to dash lighting circuit or to other 12V source. Connect BLACK light wire to an engine ground.



SERVICE

For service send your product to Auto Meter 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 "RUSH REPAIR," and Auto Meter will service product within two days after receiving it. (\$10.00 charge will be added to the cost of "RUSH 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

Auto Meter Products, Inc. warrants to the consumer that all Auto Meter High Performance 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 Auto Meter's option to the consumer, when it is determined by Auto Meter Products, Inc. that the product failed due to defects in material or workmanship. This warranty is limited to the repair or replacement of parts in the Auto Meter instruments. In no event shall this warranty exceed the original purchase price of the Auto Meter instruments nor shall Auto Meter Products, Inc. be responsible for special, incidental or consequential damages or costs incurred due to the failure of this product. Warranty claims to Auto Meter 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. Auto Meter Products, Inc. disclaims any liability for consequential damages due to breach of any written or implied warranty on all products manufactured by Auto Meter.

FOR SERVICE SEND TO: **AUTO METER PRODUCTS, INC.** 413 W. Elm St., Sycamore, IL 60178 USA (815) 895-8141

Email us at service@autometer.com

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