

INSTALLATION INSTRUCTIONS PEDESTAL ELECTRIC TACHOMETERS

2650-1076B



QUESTIONS:

If after completely reading these instructions you have questions regarding the operation or installation of your instrument(s), please contact Auto Meter Technical Service at **815-899-0801**. You may also email us at service@autometer.com. Additional information can also be found at http://www.autometer.com/tech_faq.aspx

WARNING

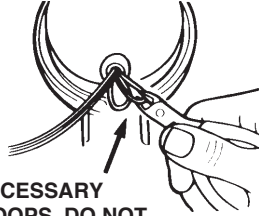
Check with engine builder for maximum recommended safe shift point before setting shift point on tachometer. Failure to do this could lead to over-revving of engine, causing serious damage to engine and car.

IMPORTANT NOTE

This tach has an air core meter movement. The tach pointer may not always rest at zero. This is normal. When 12 V power is supplied, pointer will position to the correct rpm.

Calibration

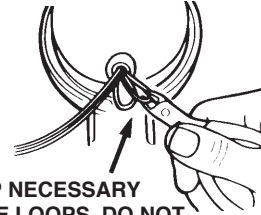
(Units with orange & brown loops)



CLIP NECESSARY WIRE LOOPS. DO NOT PUSH WIRES INTO CASE.

- 8 CYL.** — NO adjustment is necessary.
- 6 CYL.** — Clip **BROWN** wire loop only. Insulate with electrical tape.
- 4 CYL.** — Clip **BROWN** and **ORANGE** wire loops. Insulate with electrical tape.

Calibration (Units with blue & brown loops)



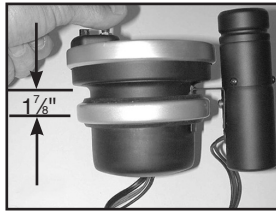
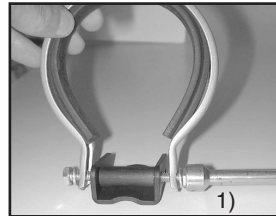
CLIP NECESSARY WIRE LOOPS. DO NOT PUSH WIRES INTO CASE.

- 8 CYL. (4 Pulse)** — NO adjustment is necessary.
- 6 CYL. (3 Pulse)** — Clip **BROWN** wire loop only. (VR-6 see 1 Pulse) Insulate with electrical tape.
- 4 CYL. (2 Pulse)** — Clip **BLUE** wire loop only. Insulate with electrical tape.
- 4 CYL. (1 Pulse)** — Clip **BROWN** and **BLUE** (Also 6 Cyl. VR-6) wire loops. Insulate with electrical tape.

* If you are unsure of your vehicle's pulse(s) per revolution or specific calibration requirements, contact Auto Meter Tech Support at (815) 899-0801 or go to <http://hp.autometer.com/techtips/techtips.html> for information.

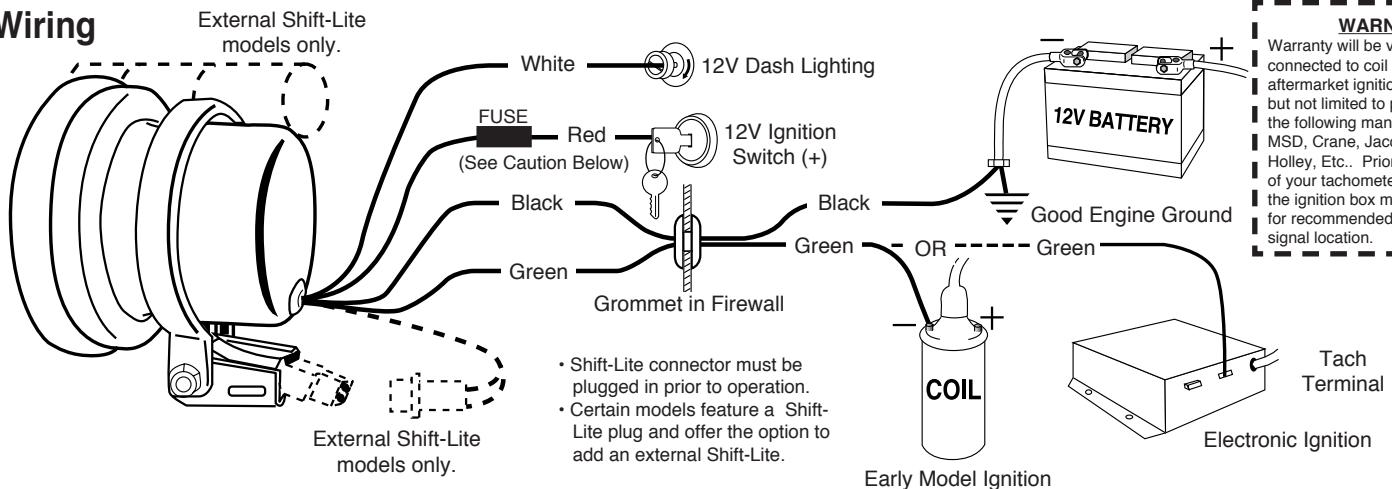
Mounting (Shift-Lite model shown)

- 1) Loosen both bolts holding the shock strap to the mounting foot. Back both bolts out until each is only one or two turns into the spacer.
- 2) Pass tach wires through shock strap assembly and slide tach casing into shock strap assembly.
- 3) For external Shift-Lite models, position Shift-Lite mounting bracket under shock strap as shown in image. Adjust Shift-Lite (if applicable), tach, and mounting base to desired positions (see figure 4 for recommended shock strap position), and tighten bolts holding mounting foot to shock strap to secure the assembly.
- 4) Make sure rubber section of shock strap seats properly to ensure proper fitment. Check to make sure shock strap is approximately 1 7/8" (1.875") between center line of strap and step of tachometer casing for best mounting. For external Shift-Lite models, plug shift light into tachometer connector. Plug is directional, do not force fit!
- 5) Recommended placement of external Shift-Lite (if applicable) is at 10 o'clock position. It is possible to place Shift-Lite in other positions in accordance with driver preference and vehicle mounting requirements.
- 6) The special design of the tachometer base allows for a variety of mounting possibilities. Attach the base using screws provided or use a pop rivet tool.



Note: Installation images shown may be different from your actual model.

Wiring



WARNING
Warranty will be void if connected to coil when using an aftermarket ignition box such as, but not limited to products from the following manufacturers: MSD, Crane, Jacobs, Mallory, Holley, Etc.. Prior to installation of your tachometer, check with the ignition box manufacturer for recommended tachometer signal location.

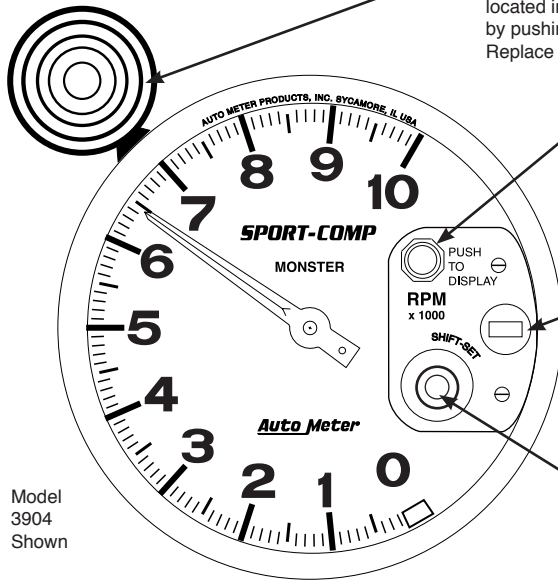
NOTE: This tachometer operates on standard, factory electronic and high performance electronic racing ignitions, such as Hy Fire and MSD. (This tachometer is **NOT** recommended for use on Accel BEI or Laser I & II ignitions.)

CAUTION!
As a safety precaution the Red wire of this product should be fused before connecting it to the positive (+) side of the 12V DC battery. We recommend using a 4 Amp, 3AG fast-acting type cartridge fuse (Littlefuse® # 312 004 or an equivalent) inline with the Red wire of our product.

Note for Lunar model: Continuous use of lighting, use in excessive heat (over 100 degrees F.), and use of lighting at full power will reduce the life span of these gauges. It is recommended that the lighting be wired through the OEM light switch, and that the use of lighting be limited in extremely hot weather in non-AC cars. It is also recommended that the lighting be dialed down to less than full power to extend the life of the instruments.

Shift-Lite™ TACHOMETER

Shift-Point Selection



Shift-Lite: For shift-Lite bulb replacement, remove three screws on light. The bulb, located in the rear section, is easily removed by pushing and rotating it counter-clockwise. Replace with #1076 automotive bulb.

Display Button: Depressing red button activates pointer to display Shift-Set RPM while setting or verifying shift-point.

Dial light: For wedge base bulb replacement, order Auto Meter 3219 or GE 86 bulb. Turn socket 1/8 turn counter-clockwise to remove. Used on selective models only.

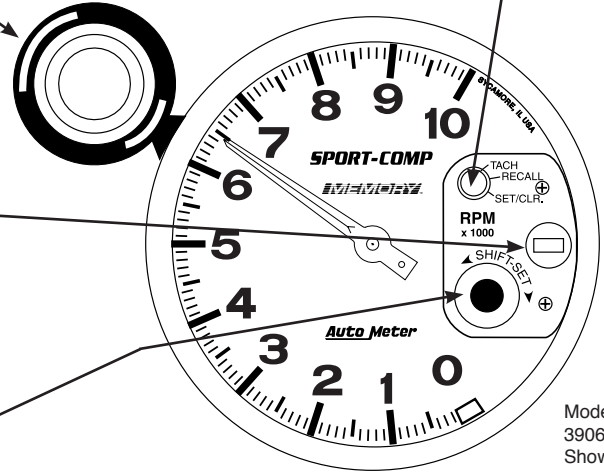
Shift-Set: Depress the Shift-Set knob and turn the knob until the pointer indicates the desired shift RPM. This is exactly where the Shift-Lite will turn on.

Model 3904 Shown

1. Push and hold red button. Pointer will display the tachometer's shift-point and the Shift Lite will activate.
2. To set your desired shift-point, continue depressing the red button, then push and turn the Shift-Set knob until the pointer reaches the desired RPM.
3. To double check, push red set button-- pointer will indicate your shift-point.
4. During normal tachometer operation, the Shift-lite will activate at the exact same RPM that the pointer indicates when red set button is depressed.

Note: For model #3903 with internal Shift-Lite, with key on, engine off, pointer will indicate shift set point. To adjust turn dial, when pointer indicates desired set point, stop. Tach will now use set point until changed

FUNCTION KNOB
TACH Position: Normal operation.
RECALL Position: Turn to this position to recall peak RPM.
SET/CLR. Position: In this position it always clears the memory. It also allows you to set the Shift-Lite RPM.



Model 3906 Shown

1. Turn the function knob to the SET/CLR position to clear the memory and to set the desired shift point.
2. To set your desired shift-point, depress the Shift-Set button and turn until the pointer indicates the desired shift RPM.
3. Return the function knob to the TACH position for normal operation.
4. During normal tachometer operation, the Shift-lite will activate at the exact same RPM set during Shift-Set selection.

NOTE: Any time power is applied to the tach, the Shift-Lite will light briefly to self-test the bulb.

Memory Tachometers

Memory tachometers record the highest RPM reached during each race. On models featuring memory, the memory controls are located directly on the tach face and are operated as shown on right.

Erase Memory

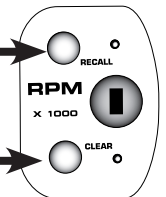
Press "ERASE" Button Before Each Race

This clears the Memory from the previous run. You are now ready to record.

Recall RPM

Press "RECALL" to Display Highest RPM Reached

This can be done during or after a race. To clear for next race return to Erase Memory, above.



Installation Tips

1. Mount tach base firmly to reduce vibration, wear and tear.
2. Avoid contact of the tach with windshield or other objects to maintain rubber shock absorbing feature.
3. A 12 V power source MUST be used to power this tachometer. A 12V motorcycle battery is a good alternative for cars without batteries. A battery with minimum 5 amp hour rating is recommended.
4. Avoid connecting tach power and ignition power leads together. Use separate battery leads for ignition and tach to avoid excess voltage drop.
5. Wherever possible, solder wire connections and avoid crimp-type connectors. This will minimize loose connections that could cause problems later.
6. Make sure you have a good ground to engine and battery negative terminal.
7. Wire installations should be neat and tied down to prevent tugging and fraying of wires at connections.

Trouble Shooting

If your tach does not function properly after installation check the following:

1. Are all electrical connections correct and tight?
2. If neither tach nor dial light work, check ground and 12V power connections.
3. Disregard tach readings that occur before engine is started.
4. If problems persist try tach on another vehicle with the same ignition.
5. For changes in ignition type, contact a service representative from Auto Meter.
6. Ignition manufacturers recommend that the ignition and coil be matched according to criteria which they establish (often that the ignition and coil be products of the same company). If they are mismatched, minor malfunctions may occur, showing as erratic readings on the tach. Mismatching coil and ignition types is often the cause of incorrect tach performance.

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.

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Email us at service@autometer.com