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 866-248-6357. You may also email us at service@autometer.com. Additional information can also be found at http://www.autometer.com/tech_faq.aspx

INTRODUCTION
• Any Auto Meter Shift-Lite™, or Quick-Lite™ Shift-Lite can be used with tachs equipped with a black, Shift-Lite connector.

NOTE 1: This tachometer has an air core meter. With power off, it is normal for the pointer to leave zero. When 12V power is applied, the pointer will move to the correct position.

NOTE 2: Tachometers with two or three buttons use an advanced microcontroller circuit to measure engine RPM for increased accuracy and zero pointer flutter at low RPM. When used on 0.5, 1, or 1.5 pulse per rev ignitions, a brief pause in pointer movement may be observed as RPM is rapidly decreased.

1. WIRING

WARNING
DO NOT USE THIS PRODUCT WITH SOLID CORE SPARK PLUG WIRES.

CAUTION!!!
As a safety precaution the RED wire of this product should be fused before connecting it to the positive (+) side of switched power source. 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 for tachs that use a Shift-Lite. For tachs without a Shift-Lite we recommend using a 1Amp 3 AG fast-acting type cartridge fuse (Littlefuse® #312 001 or an equivalent).

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.

* See autometer.com/tech_installation.aspx for specific vehicle information.
2. CALIBRATION (MODELS WITH NO CALIBRATION LOOPS)

The tachometer is configured at the factory for 4 PPR. To change the PPR on tachs with three buttons, follow the steps below:

1. With no power applied to the tach, press and hold the SET button.
2. Apply power to the tach by turning the ignition key to the “Accessory” or “On” position. Do not start the engine! The pointer will move to a position on the dial which indicates the default configuration of 4 PPR. Release the SET button.
3. Press and release the (erase) button to increase the PPR setting. Press and release the (recall) button to decrease the PPR setting.
4. When the pointer indicates the desired PPR, press and release the SET button to permanently store the settings and exit Configuration mode.

To change the PPR on tachs with two buttons, follow the steps below:

1. With no power applied to the tach, press and hold the yellow RECALL button.
2. Apply power to the tach by turning the ignition key to the “Accessory” or “On” position. Do not start the engine! The pointer will move to a position on the dial which indicates the default configuration of 4 PPR. Release the RECALL button.
3. Press and release the red ERASE button to change the PPR setting. This will cause the pointer to indicate 5 PPR, then 6 PPR, then down to 0.5 PPR, then 1, 1.5, 2, 2.5, 3, and back to 4 PPR. See the table below to find the pointer reading that corresponds to the desired PPR.
4. When the pointer indicates the desired PPR, press and release the yellow RECALL button to permanently store the settings and exit Configuration mode.

FOR MODELS 6858, 6857, 6856, 3906 AND 6851:

<table>
<thead>
<tr>
<th>ENGINE</th>
<th>Most 2 cyl.</th>
<th>Most 4 cyl.</th>
<th>Most 6 cyl.</th>
<th>Most 8 cyl.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPR</td>
<td>0.5</td>
<td>1</td>
<td>1.5</td>
<td>2</td>
</tr>
<tr>
<td>DIAL RPM</td>
<td>500</td>
<td>1000</td>
<td>1500</td>
<td>2000</td>
</tr>
</tbody>
</table>

FOR MODELS 6809, 6811, 6854, 4499, 6852 and 5795:

<table>
<thead>
<tr>
<th>ENGINE</th>
<th>Most 2 cyl.</th>
<th>Most 4 cyl.</th>
<th>Most 6 cyl.</th>
<th>Most 8 cyl.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPR</td>
<td>0.5</td>
<td>1</td>
<td>1.5</td>
<td>2</td>
</tr>
<tr>
<td>DIAL RPM</td>
<td>5000</td>
<td>5500</td>
<td>6000</td>
<td>6500</td>
</tr>
</tbody>
</table>

FOR MODEL 6855:

<table>
<thead>
<tr>
<th>ENGINE</th>
<th>Most 2 cyl.</th>
<th>Most 4 cyl.</th>
<th>Most 6 cyl.</th>
<th>Most 8 cyl.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPR</td>
<td>0.5</td>
<td>1</td>
<td>1.5</td>
<td>2</td>
</tr>
<tr>
<td>DIAL RPM</td>
<td>7000</td>
<td>7500</td>
<td>8000</td>
<td>8500</td>
</tr>
</tbody>
</table>

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 a proper fit. Check to make sure shock strap is approximately 1/8" (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.


**Installation Tips**

1. Mount tach base firmly to reduce vibration, wear and tear.
2. Avoid contact of the tach with windshied or other objects to maintain rubber shock absorbing feature.
3. A 12 V power source MUST be used to power this tachometer. A 12 V motorcycle battery is a good alternative for cars without batteries.
4. A battery with minimum 5 amp hour rating is recommended.
5. Avoid connecting tach power and ignition power leads together. Use separate battery leads for ignition and tach to avoid excess voltage drop.
6. Wherever possible, solder wire connections and avoid crimp-type connectors. This will minimize loose connections that could cause problems later.
7. Make sure you have a good ground to engine and battery negative terminal.
8. 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).
7. If they are mismatched, minor malfunctions may occur, showing erratic readings on the tach. Mismatching coil and ignition types is often the cause of incorrect tach performance.

**SERVICE**

For service send your 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 or 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 transported 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 (866) 248-6357

Email us at service@autometer.com

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