



2650-1081

INSTALLATION INSTRUCTIONS 5" Playback Tachometer



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**.

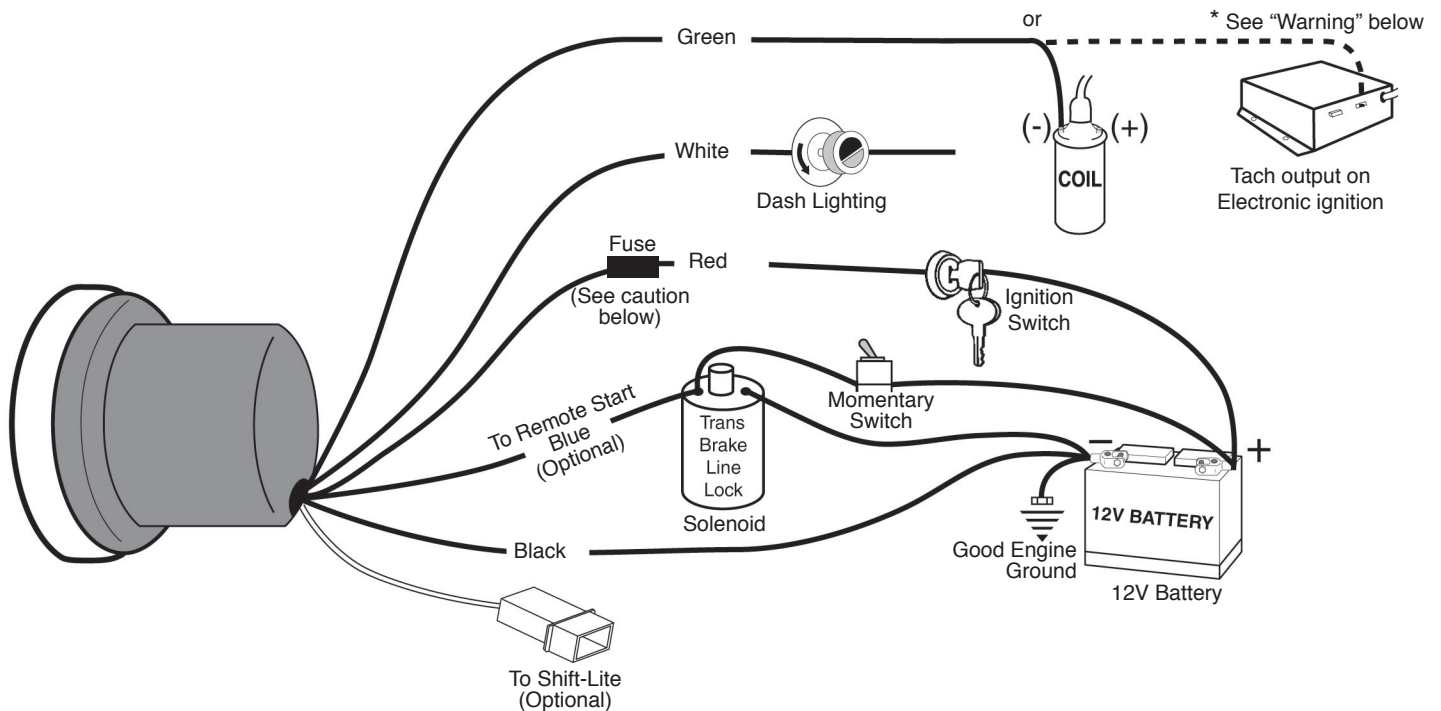
You may also email us at service@autometer.com.

Additional information can also be found at http://www.autometer.com/tech_faq.aspx

INTRODUCTION

- The Playback Tach has the capability of recording up to 80 seconds of data. This data is stored in memory even after power is shut off, and can be played back any number of times.
- Any Auto Meter Shift-Lite™, or Quick-Lite™ Shift-Lite can be used with this tach. Up to four different shift points can be used to activate the Shift-Lite.
- When a Shift-Lite is used, Auto Meter's unique Launch Lite™ feature gives a visual indication that the staging/launch RPM is either AT, ABOVE or BELOW a user changeable set point.
- The number of ignition Pulses Per Revolution (PPR) of the engine can be set from .5 PPR to 6 PPR.

1. WIRING (For Trans-Brake or Line-Lock Application)



CAUTION!!!

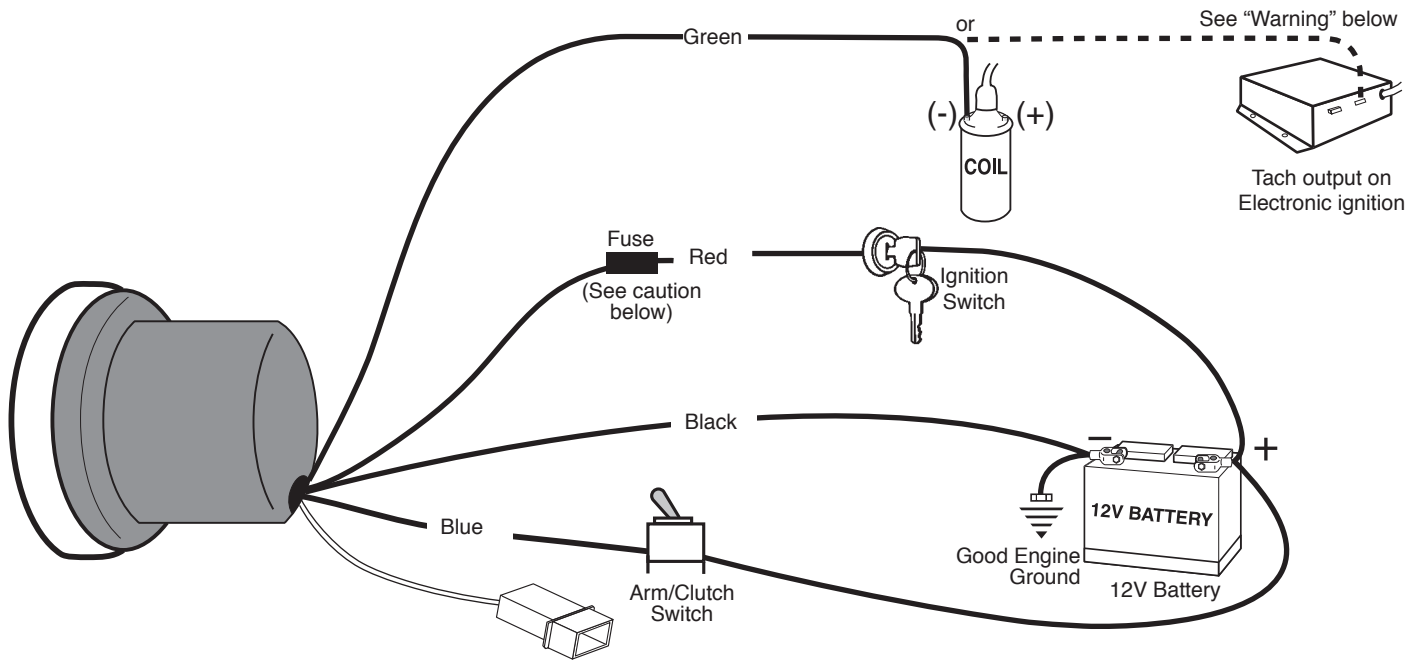
As a safety precaution the RED wire of this product should be fused before connecting it to the positive (+) side of the 12V DC battery. We recommend using a 4 Amp, 3AG fast-acting type cartridge fuse (Littlefuse® #312 004 or an equivalent) inline with the RED wire of our product.

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. WIRING (For Clutch Switch Application)



CAUTION!!!

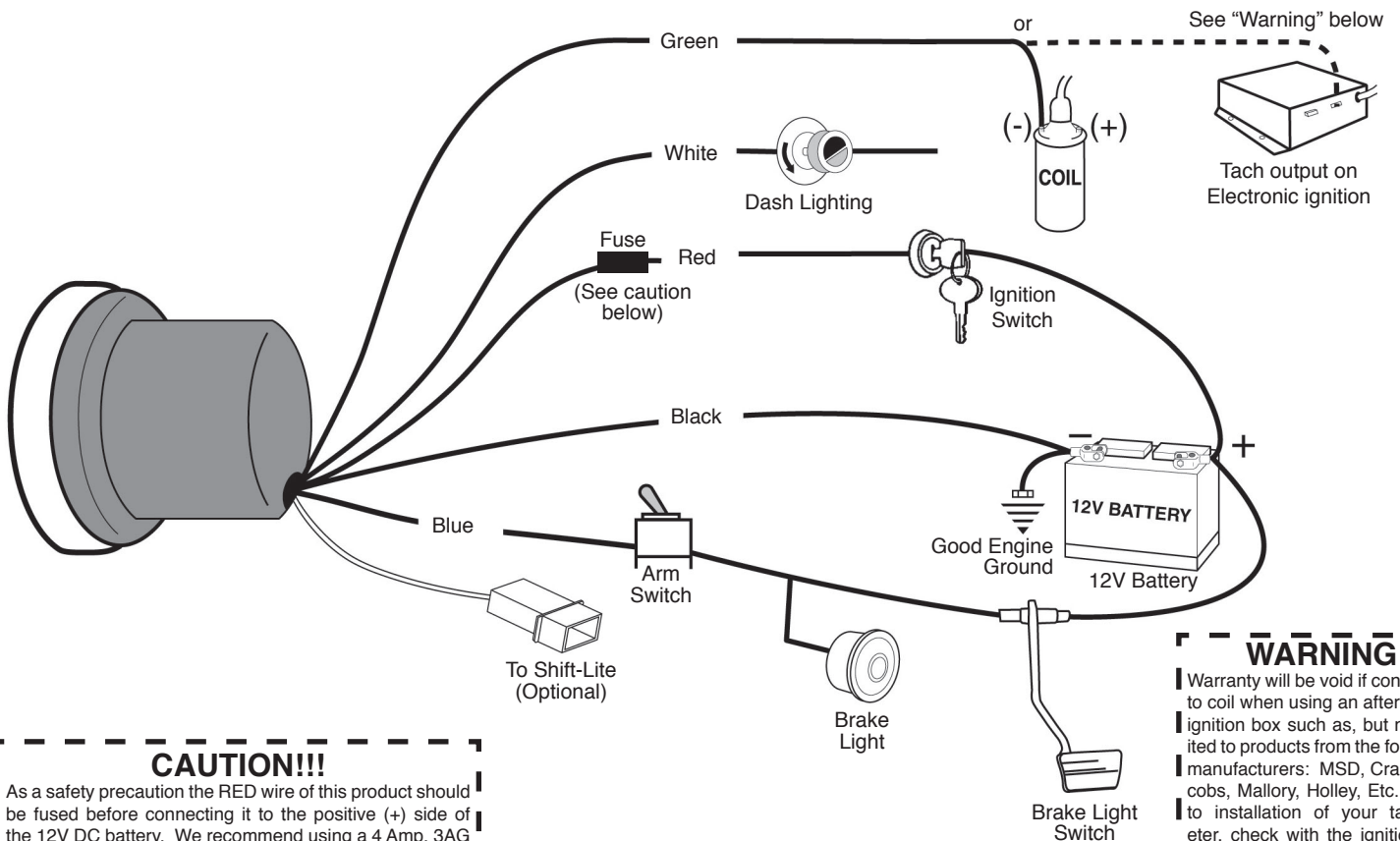
As a safety precaution the RED wire of this product should be fused before connecting it to the positive (+) side of the 12V DC battery. We recommend using a 4 Amp, 3AG fast-acting type cartridge fuse (Littlefuse® #312 004 or an equivalent) inline with the RED wire of our product.

To Shift-Lite
(Optional)

WARNING

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3. WIRING (For Foot-Brake Application)



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.

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.

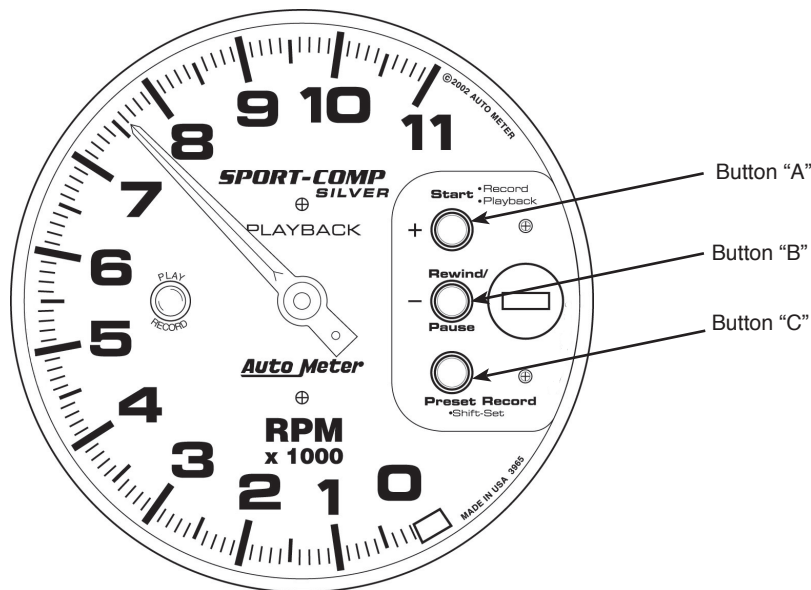
4. CONFIGURATION

The tachometer is configured at the factory for 4 PPR. To change the PPR, follow the steps below:

1. With no power applied to the tach, press and hold the Shift-Set (Button C) 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 Shift-Set (Button C) button.
3. Press and release the + button to increase the PPR setting. Press and release the - button to decrease the PPR setting. See the table below to find the pointer reading that corresponds to the desired PPR for your tachometer type.
4. When the pointer indicates the desired PPR, press and release the Shift-Set (Button C) button to permanently store the settings and exit Configuration mode.

ENGINE		Most 2 cyl.		Most 4 cyl.		Most 6 cyl.	Most 8 cyl.		
PPR	0.5	1	1.5	2	2.5	3	4	5	6
DIAL RPM	500	1000	1500	2000	2500	3000	4000	5000	6000

5. MODE/BUTTON DEFINITIONS:



KEY ON/ENGINE OFF			
OPERATING MODE	A	B	C
Shift-Lite Set Mode	+	-	Shift-Lite Set
Playback Mode	Playback	Rewind/Pause	Stop

KEY ON/ENGINE ON			
Tach Mode	Start	Launch Set	Preset Record

6. OPERATION:

1. Shift-Lite Set Mode

- 1.1 To enter this mode, apply power to the tach with the engine off (no ignition signal to the tach).
- 1.2 Press and release Shift-Set (Button C). The pointer moves from 0 RPM to 1K RPM.
This is the indicator for setting Shift-Lite set point #1.
- 1.3 Press and release Shift-Set to review and/or set Shift-Lite set point #1. The green LED will flash, with the pointer indicating the current RPM.
- 1.4 Using the "+" (Button A) and "-" (Button B) move the pointer to the desired RPM for set point #1.
- 1.5 Once the pointer is positioned at the desired RPM, press and release Shift-Set to store the setting.
The green LED will turn off, and the pointer will return to 1K RPM.

- 1.6 Using the "+" and "-" buttons move the pointer up or down to the next Shift-Lite set point to be programmed or reviewed. (2K for the second shift point, 3K for the third, 4K for the fourth)
- 1.7 Repeat steps 1.3 - 1.6 to program or review each shift-lite set point. Advancing the pointer to 5K RPM will allow the reviewing and setting of the Launch RPM set point. This is accomplished using steps 1.3 to 1.5 above. Changing this set point will not affect any of the four shift-lite set points.
- 1.8 **When all shift points are set, press and release "-" button until pointer returns to 0, to permanently store the settings.** This resets the tach mode.

Note: If a set point has been changed, all higher Shift-Lite set points will also be changed to the same value. All lower Shift-Lite set points will be left unchanged. For example, if Shift-Lite set point #2 is changed to 6,000 RPM, set points #3 and #4 will also be changed to 6,000 RPM. Set point #1 will not be changed. Set point #5 is the Launch RPM and will not change when set points #1-4 are changed.

2. Tach Mode

This mode is entered whenever the tach is powered on and the engine is running (except for step 3.4 below). The pointer will display the current RPM of the engine.

Setting Launch Lite™ - In this mode, there is a "quick-set" feature for the Launch RPM set point. This is accomplished by pressing and releasing the "-" (Button B) with the engine running at the desired RPM. The Shift-Lite will flash to indicate the new set point has been stored.

3. Record Mode

- 3.1 The tach must be placed into the "Preset" mode before the record mode can be started. This is accomplished by pressing Preset Record (Button C) while the tach is in tach mode. The green LED will begin to flash to indicate the "Preset" mode is active. Pressing Preset Record again turns off the "Preset" mode. While in Preset mode, the Launch Lite function will become active. In this mode, the Shift-Lite will perform as follows:

When the RPM is below the Launch RPM Set Point: the Shift-Lite will be off.

When the RPM is at the Launch RPM set point +/-100 RPM: the Shift-Lite will be on.

When the RPM is above the Launch RPM set point: the Shift-Lite will flash.

Once the tach enters the Record mode, the Launch Lite function will no longer be active.

- 3.2 To start the recording of a run, the "Preset" mode must be active. Press Start (Button A) or the remote start switch that is connected to the blue wire, to start recording. The green LED will stay on indicating recording is in progress. Any previously recorded run information will be over-written.
- 3.3 The tach will continue to record for the specified maximum time period (80 seconds), or until Preset Record is pressed, whichever comes first. The green LED will turn off at the end of the recording.
 - 450 RPM "Short Shift Protection" is provided. This will advance the shift-lite setting from one shift point to the next when the engine drops 450 RPM or more. For example, if shift point #1 is set at 6,000 RPM and you short shift at 5,000 RPM the tach will automatically advance to shift point #2 even though you never reached 6,000 RPM and the light never turned on.
 - During a run, after the last shift point, the Shift-Lite will remain off.
- 3.4 If the tach is powered off during the "Preset" mode, the tach will return to the "Preset" mode when power is applied and the engine is running.
- 3.5 If the tach is powered down during a recording, the tach will return to "Tach" mode when power is applied and the engine is running. The recording will be available for playback up to the point the power was removed.

4. Playback Mode

- 4.1 To enter this mode, apply power to the tach with the engine off (no ignition signal to the tach).
- 4.2 Press and release the Playback (Button A). The pointer will begin "playing back" the run stored in the memory at 1/3 real time. The green LED will turn on during the playback. At the end of the recording, the green LED will turn off.
- 4.3 To "Rewind" the current run being played back, press Rewind/Pause (Button B). The pointer will play the run backwards from its current position in real time, for as long as Rewind/Pause is pressed. Once Rewind/Pause is released, playback will be "Paused".
- 4.4 To resume playback at 1/3 real time, press and release the Playback button. Pressing and holding the Playback button will play the run forward in real time. When the Playback button is released, playback will resume at 1/3 real time.

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 this product will be free from defects in material and workmanship for a period of twelve (12) months from date of the original purchase. Products that fall 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 (815) 899-0801

For Email: Service@autometer.com



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