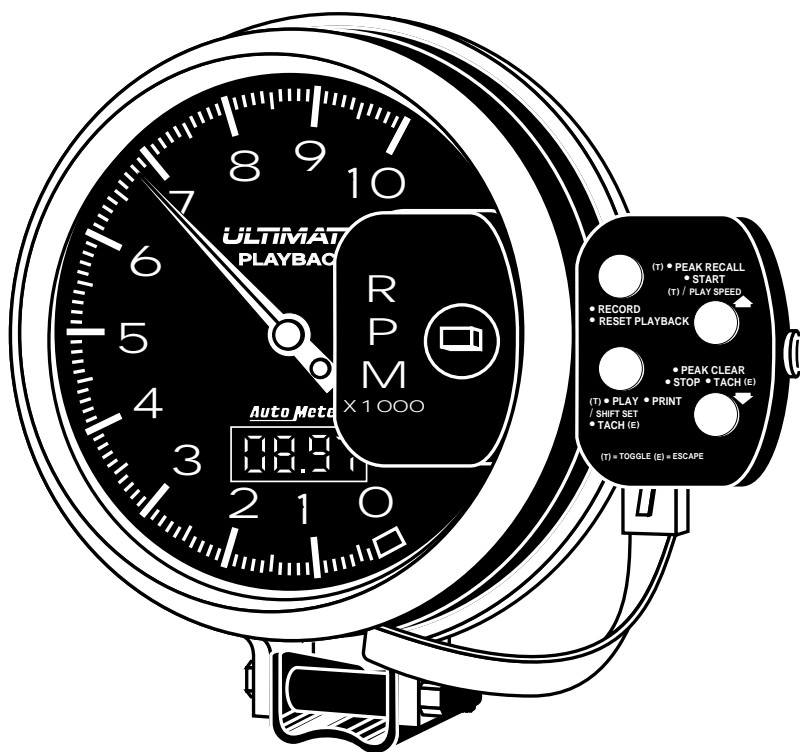




# ULTIMATE™ PLAYBACK™ Tachometer

With 10 Minute Recording

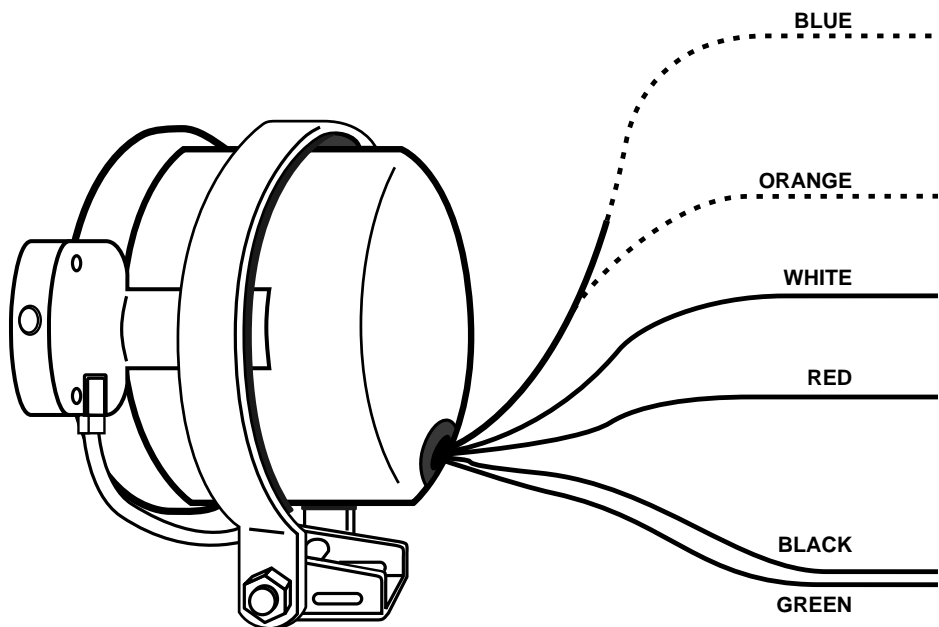
MODEL  
6876



## OPERATION MANUAL

# WIRING INSTALLATION

See page 4 for calibrating for 4 or 6 cylinder engines.



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**Note:** This tachometer operates on standard, factory electronic and high performance electronic racing ignitions, such as Crane and MSD. (This tach is NOT recommended for use on Accel BEI or Laser I & II ignitions. These ignitions require model 5215 adapter.)

**Note:** The tach pointer may not always rest at zero. This is a natural characteristic of the High Performance air-core meter movement used in this tachometer. When engine is started, pointer will position on the correct RPM.



Normally Open  
Momentary Switch ★



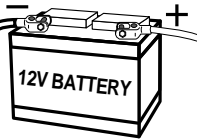
★ *Optional Lap Detector switch or relay with Contact Closure to Ground.*

To Good  
Engine Ground

BLACK OPTIONAL SHIFT-LITE  
WHITE +12V

12V DASH  
LIGHTING

\*12V IGNITION  
SWITCH



To Good  
Engine Ground

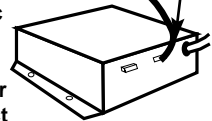
GREEN  
Tach Terminal

GROMMET  
IN  
FIREWALL

BLACK  
GREEN  
STANDARD  
IGNITION  
On standard  
ignitions  
GREEN wire  
attaches to coil  
negative (-).



OR  
On electronic  
ignitions,  
such  
as GM, HEI or  
MSD, connect  
to tach  
terminal.



ELECTRONIC  
IGNITION

**WARNING**  
ATTACH GREEN ONLY TO TACH TERMINAL.  
++Warranty will be void if connected to  
coil on MSD ignitions.

\* **Optional Wiring:** Red wire to separate switch to battery. This lets you stop recording even after engine is turned off, which prevents recording loss.

# DEFINITIONS TO KNOW

• = A single push of the button. ex. •**START**

/ = Button is held until something happens (a few seconds). ex. /**SHIFT SET**

**Time out** = The tach will automatically return from function or setup to **TACH** mode (15 to 20 seconds) if you do nothing. Record and play are the only functions this will not work in.

# TACHOMETER SETUP

## IMPORTANT

After installation, the tachometer must be set to the proper cylinder setting. It is adjustable for 4, 6 and 8 cylinder engines. For other applications, contact Auto Meter for information. The tachometer is factory preset for 8 cylinders. To change the cylinder selection:

1. First, make sure the display is showing **TACH**. If not, wait 15 - 20 seconds for the tach to time out and show **TACH** or turn the power off and then back on.
2. Press and hold the •**START** button until the display reads either **1=1** or **1=2**. Release the •**START** button.
3. Press and hold the •**RECORD** button until display reads **xCYL**, where x indicates the number of cylinders selected. For example: **8CYL**
4. Press the **UP** or **DOWN** arrow button to select the proper number of cylinders. Select 4, 6 or 8.
5. When the proper cylinder setting is displayed, press the •**RECORD** button to select this setting. If •**RECORD** is not pressed, the tach will time out and automatically select the displayed setting.

# OPTIONAL SHIFT-LITE SETUP

1. First, make sure the display is showing **TACH**. If not, wait for the tach to time out.
2. Press and hold the /**SHIFT SET** button until the display reads **SELH**. The tach is ready to set the shift point.
3. Press the **UP** or **DOWN** arrow button to move the tach pointer to the desired shift point. Holding the arrow button down will increase the speed at which the pointer moves, allowing you to get close quickly and then fine tune the selection by using short presses to move the pointer in small increments.
4. Press /**SHIFT SET** • **TACH** button to record the shift point and return to **TACH** mode, or let the tach time out and automatically record your shift point.

*Note: You can later check your shift points by holding the /SHIFT SET button down until the display reads SELH. The pointer will then move to the preselected RPM for your shift point. Press /SHIFT SET • TACH button to return to TACH mode.*

## RECORD & PLAY OPERATION

An 8 foot extension cable (model 5220) allows the control module to be mounted so the driver or crew can operate the Playback feature in a convenient location such as near the driver's seat.

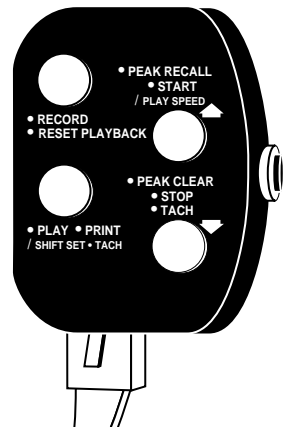
*Note: Playback will function if ignition is on and engine is not running. If the engine is running, the Playback feature will not operate.*

## Record & Playback Features

The Playback Tach allows you to record and playback race performance by recalling actual tachometer readings along with elapsed recording time. One recording of up to 10 minutes can be made in the ULTIMATE's™ memory. The recording is saved, even when the power is turned off, until overwritten by a new one. The Ultimate™ Playback Tachometer LED display will not show timing during recording; timing is only displayed during half-speed or full-speed playback.

## Recording

1. First, make sure the display is showing **TACH**. If not, wait for the tach to time out.
2. Press the •**RECORD** button on the control module. The display will show **REC**.
3. To actually start the recording, press the •**START** button. During the recording the display will read **RECD**.
4. To stop the recording, press the •**STOP** button, or allow the tach to record until the memory is full (about 10 to 12 minutes). At the end of recording, the tach returns to **TACH** mode.



*Important: Pressing the •STOP button to end the recording places a mark in memory that tells the tach when you stopped. If the tach power is turned off before stop is pressed, the tach (on playback) will play through to the end of the total memory. this means that anything previously recorded in that sector will playback.*

# Playback

1. First, make sure the display is showing **TACH**. If not, wait for the tach to time out.
2. Select playback speed by pressing and holding **•PLAY SPEED** button until the display changes to **1=1** or **1=2**. Use the **UP** or **DOWN** arrow button to change the display between full speed (**1=1**) and half-speed (**1=2**).

*Note: The playback speed setting is retained until the power is removed.*

3. Press the **•PLAY** button to enter playback mode. The display will show **PLAY**.
4. Press the **•START** button to start the playback.
  - A. During playback, press the **•STOP** button once to pause playback.
  - B. When paused, press the **•START** button to continue playback, or press the **•STOP •TACH** button to quit playback and go back to **TACH** mode.
  - C. When the playback comes to a lap marker, playback will pause, the display will show **LAP1** for a second, then the display will show the elapsed time at the lap marker. Press the **•START** button to continue with playback. The second lap will display as **LAP2**, then **LAP3**, etc. The tenth lap will display as **LAP0**, and then the lap counter will go back to **LAP1**.
  - D. When paused, you can also reset to the beginning of the recording by pressing the **•RESET PLAYBACK** button. Press **•START** to begin the playback again.
5. When playback reaches the end of the run, the tach will stop. The display will show the total elapsed time, and the tach pointer will indicate the engine RPM at that point. At the end of the run, the **•START** button has no effect. Press the **•STOP•TACH** button to return to **TACH** mode.

# Peak Recall

The ULTIMATE™ tachometer has a Peak Recall feature that lets you recall the highest RPM peak that has occurred. Whenever the tach is operating, whether it is recording a race, playing back a recording, or just operating in tach mode, it remembers the highest RPM peak that the pointer has indicated. It will retain the peak until either a higher peak is seen, the user clears the peak or the power is turned off.

1. First, make sure the display is showing **TACH**. If not, wait for the tach to time out.
2. Press the **•PEAK RECALL** button. The display will show **PEAC** and the pointer will indicate the peak reading.
3. To clear this peak, press the **•PEAK CLEAR** button while **PEAC** is still showing in the display. The tach pointer will drop to near zero. If you are displaying a peak and do not want to clear it, press **•PEAK RECALL** button again or let the function time out.

# SHOCK STRAP REMOVAL

1. First, Remove both shock strap bolts.
2. Place remote module bracket or optional Shift-Lite between tachometer case and shock strap cushion.
3. Thread in one shock strap bolt approximately two turns.
4. Squeeze shock strap together while threading in the other bolt.
5. Tighten both bolts.

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## SERVICE

For service send your product to Auto Meter in a well packed shipping carton. Please include a note explaining the problem 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 the 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.

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

# QUICK REFERENCE

*For reference only, for complete instructions see inside.*

## **BEFORE THE RACE**

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1. Press •**RECORD** on Control Module.
2. Press •**START**.
3. Press •**STOP** when run is over.

## **AFTER THE RACE**

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1. Press •**PLAY** on Control Module.
2. Press •**START**.
3. Press •**STOP** when run is over.