



2650-1123-00 Rev. B

# INSTALLATION INSTRUCTIONS

## Digital Pro-Shift System

### Level 1 Gauges and Tubes



### 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](mailto:service@autometer.com).

Additional information can also be found at [http://www.autometer.com/tech\\_faqs.aspx](http://www.autometer.com/tech_faqs.aspx)

## INTRODUCTION

Thank you for your purchase of the Digital Pro Shift System (DPSS) from Auto Meter Products, Inc. The new technology in this product makes it possible to do away with traditional plug-in chips while providing a combination of features only previously available on our larger Shift-Lite and Playback tachometers. The following basic features are included on this product:

- Single precise user-programmable set point
- Digital RPM display
- RPM display blanking in preset/record modes
- Quick-reacting, intensely-bright LED shift light
- User selectable dimming function

Please read and follow the instructions below regarding the installation and operation of your DPSS to receive maximum benefit and accuracy from this product. **Failure to follow the information below will void the product warranty and may result in damage to your vehicle, this product, and/or personal injury.**

**NOTE:** This product features INTENSELY-BRIGHT LEDS! This feature is intended for maximum driver visibility during daytime operation and high glare situations. Usage of this product at full brightness during nighttime or extremely dark settings may adversely affect driver's vision. Auto Meter strongly recommends that you familiarize yourself with the dimming function of this product and that you do not operate the product at full brightness during dim or dark lighting conditions.

## INSTALLATION

1. Disconnect the negative (-) battery cable.
2. Gauge can be mounted in a 2 1/16" dia. hole with the bracket supplied. Gauge can also be mounted in an Auto Meter Mounting Cup, Panel, or Auto Meter Gauge Works Pod.
3. Wire gauge as indicated. See schematic on following page for more info:

**Red Wire:** Connect to a fused and switched 12V positive source that is turned on and off with the ignition switch.

**Black Wire:** Connect to a good engine, chassis, or battery ground.

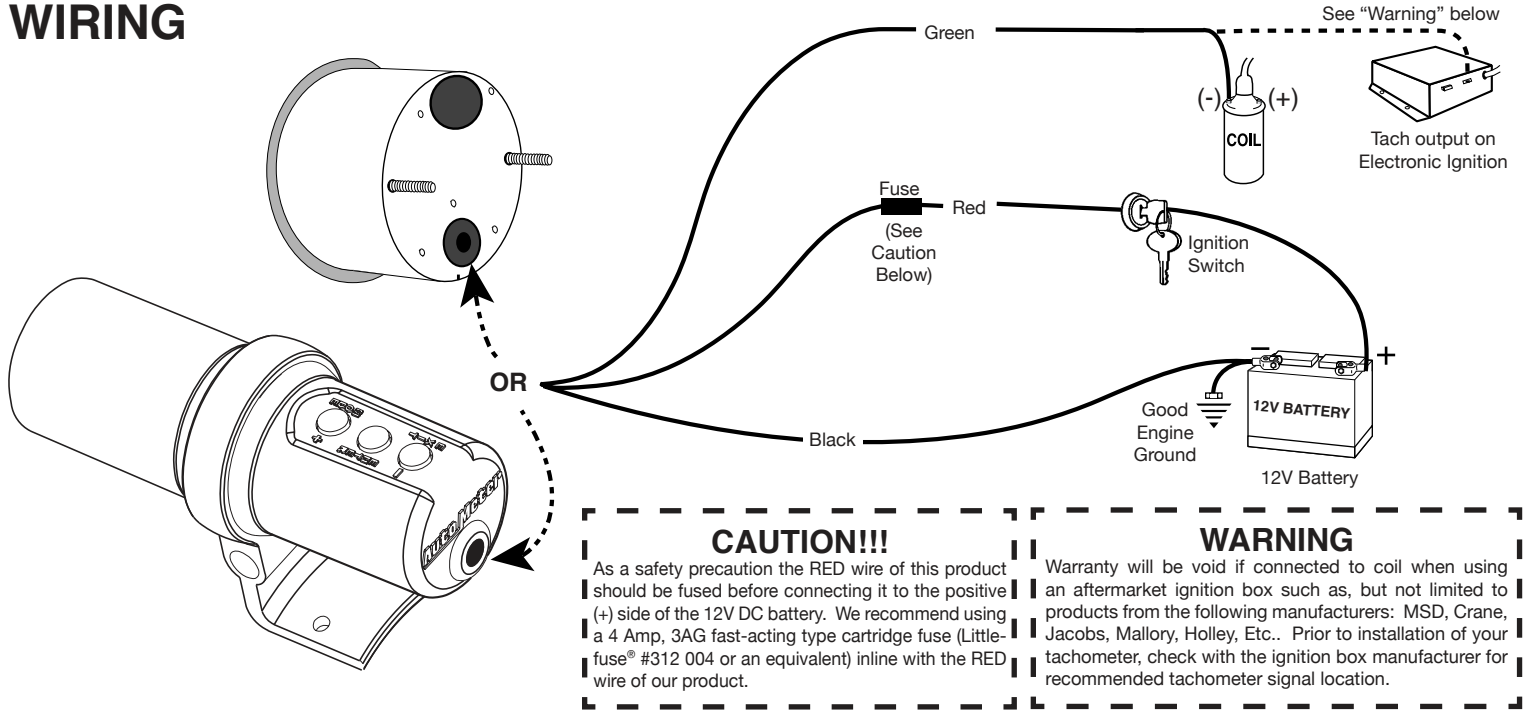
**Green Wire:** Connect to the negative terminal of a standard ignition coil, or to the "Tach Output" terminal on the Electronic Ignition Module. (See diagram)

## QUICK SET OPTIONS:

**Remove RPM Display** – Sometimes fewer distractions are better for a driver. If you want to be able to focus on just the shift light when you're making a performance run and don't want to be distracted by the digital RPM display, you can disable the display function. To turn on/off the display function, press and hold the **ENTER (-)** button for 2 seconds. The display will indicate "on" or "off" to indicate which mode you will be changing to.

**NOTE:** This function only takes affect in preset / record modes. RPM display is always shown during real-time or Tach mode.

# WIRING



## SETUP and OPERATION MODES

**A.) MENU MODE** – To Select Menu Mode, press **MODE (+)**. To exit setup mode and return to Real Time display, press **EXIT (-)**.

**B.) SHIFT POINT SET** – Once “SptS” is shown on your display, press **ENTER** to confirm that you would like to set your shiftpoint. “SP1” will now be displayed. To set your shift point, press **ENTER** to confirm the shiftpoint you would like to set. The display will now show you the current shift point setting. Use the **MODE (+)** and **EXIT (-)** buttons to raise and lower this number. A single press results in a 10 RPM increment change. Push and hold each button to scroll more quickly through the RPM scale. Once you have dialed in the desired set point, press **ENTER** to confirm your choice.

**NOTE:** It is recommended that you set the shift point to 3000 RPM (or a similarly mid to low point in your engine’s rev range) to confirm proper installation. With the DPSS on and in Tach mode, bring the revs of the vehicle to 3000 RPM and verify that the light activates as specified. Once this test is completed dial up your shift point to your desired, or engine builder specified RPM setting.

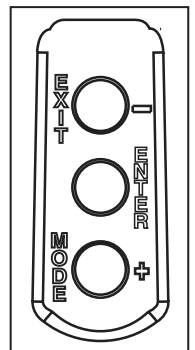
**C.) PULSE PER REVOLUTION SET (CYL. CALIBRATION)** – Use this feature to calibrate your Digital Pro Shift System to your engine and ignition type. To enter Pulse Per Revolution Set, press the **MODE (+)** button until “PPR” is displayed, then press **ENTER** to confirm your selection. You may now use the “+” and “-” buttons to cycle up and down through the pulse settings available on this product. Pulse per revolution settings refer to the number of pulses or “plug firings” provided by the ignition to the device per engine crank revolution. For example a single coil ignition on a 4-cylinder engine will typically fire two cylinders per crank revolution. If your ignition matched this type, you would need to set your PPR value to “2” (\* See below). Below is a list of common ignition pulse settings. If you need further assistance calibrating this unit for your application please visit our **Tech Tips** and **FAQ** section on our website ([http://www.autometer.com/tech\\_faq.aspx](http://www.autometer.com/tech_faq.aspx)) or contact Auto Meter tech support personnel via the information included with the warranty information shown later on this sheet.

\* The available ignition pulse setting are .5, 1, 1.5, 2, 3, 4, 5 & 6.

ENGINE		Most 2 cyl.		Most 4 cyl.		Most 6 cyl.	Most 8 cyl.		
PPR	0.5	1	1.5	2.0	2.5	3	4	5	6

**D.) SHIFT LIGHT BRIGHTNESS SET** – To adjust the high and low brightness settings of your Digital Pro Shift System, press the **MODE (+)** until “S LV” (ShiftlightLevel) is displayed and press **ENTER** to confirm your choice. “0” is displayed. Factory programmed preset is the lowest setting, “0.” To adjust, use the “+” and “-“ buttons. Max brightness setting is “3.”

**E.) PEAK Recall** – The DPSS features a “peak” recall or memory to recall the highest RPM reached. Scroll through the Menu Mode [**MODE (+)**] until the display reads “PEAC” then press **ENTER**. This will display the highest RPM achieved. To clear the peak press **MODE (+)**.



### 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

The “Super Bezel” is a registered trademark of Auto Meter Products, Inc. For Email: [Service@autometer.com](mailto:Service@autometer.com)