

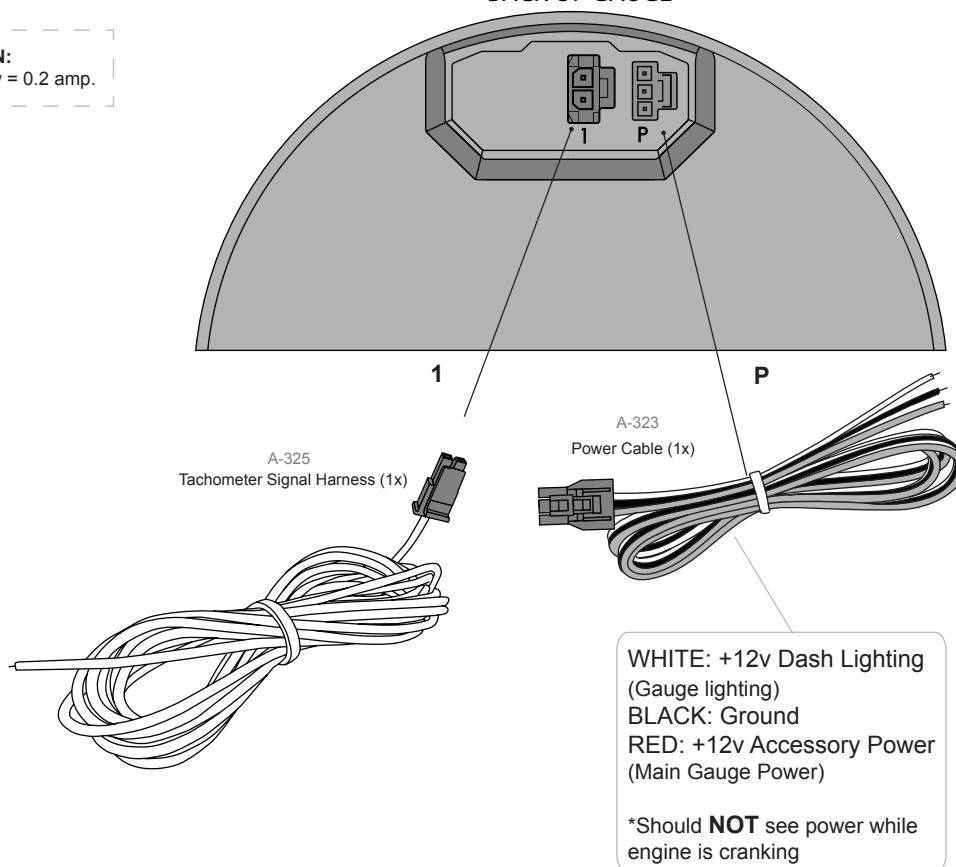


4" & 4-1/2" Tachometer With Shift-Lights Instructions

SPEEDHUT®

BACK OF GAUGE

ATTENTION:
Power Draw = 0.2 amp.



WARNING: HIGH VOLTAGE can be present on ignition coil wires. Ensure engine is OFF before connecting yellow tachometer signal wire to a coil.

INSTALLATION

- 1 DISCONNECT your vehicle's negative (-) battery cable.
- 2 MOUNT your gauge to the panel using the spin lock ring.
- 3 CONNECT the gauge wiring.
- 4 RECONNECT your vehicle's negative (-) battery cable.

TACHOMETER SIGNAL WIRE

The vehicle's type of ignition system determines where to connect the tachometer signal wire and how to calculate the correct Pulses Per Revolution (PPR).

Identify your vehicle's ignition system by comparing the total # of spark plugs to the total # of engine coils, or by checking the ECU.

Use the table below to determine ignition type and connection location. Use the table on page 2 to determine correct PPR.

Pull up resistor needed to amplify signal.

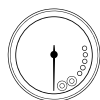
Example Image					
Ignition System	Distributor-Based (Single-Coil)	Distributorless (Coil Packs)	Coil - On - Plug (COP)	OEM ECU Connection	Aftermarket ECU Connection
Description	All spark plugs are connected to the same 1 coil.	There are twice as many spark plugs as there are engine coils.	There is an equal number of engine coils and spark plugs.	The vehicle's ECU has a tachometer output wire.	The vehicle's ECU has a tachometer output wire.
Connect Signal Wire (Yellow)	Connect signal wire to negative (-) coil terminal.	Connect signal wire to the trigger wire of any 1 coil.	Connect signal wire to the trigger wire of any 1 coil.	Connect signal wire to ECU tachometer output. Requires a resistor.	Connect signal wire to ECU tachometer output. Does NOT require a resistor.

CONTACT US

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LIFETIME WARRANTY

We take pride in the products we make and offer a Lifetime Warranty on gauge electronics and a 5-year warranty on hardware for every gauge, tachometer and shift light purchased since Jan 1, 2006. Every SPEEDHUT product is built for a lifetime of service, and we warrant to the person who originally purchased the product that all SPEEDHUT products will be free from defects in workmanship and materials for their applicable warranty period. If a defect occurs during the warranty period as the result of the product's intended use, we will repair or replace the defective product or part, to our discretion. The warranty does not cover defects caused by third-party modifications, repairs or replacement parts. Any holes, scratches, normal wear and tear, and the natural breakdown of colors and materials over extended time and use are not warranted.

**DETERMINE PULSES PER REVOLUTION (PPR)- RECOMMENDED STARTING POINT**

	Distributor-Based (Single-Coil)	Wasted-Spark (Distributorless) (Coil Packs)	Coil - On - Plug (COP)	OEM ECU Connection	Aftermarket ECU Connection
12 Cyl (4-Stroke)	6 PPR	1 PPR	0.5 PPR	2 PPR	6 PPR
10 Cyl (4-Stroke)	5 PPR	1 PPR	0.5 PPR	2 PPR	5 PPR
8 Cyl (4-Stroke)	4 PPR	1 PPR	0.5 PPR	2 PPR	4 PPR
6 Cyl (4-Stroke)	3 PPR	1 PPR	0.5 PPR	2 PPR	3 PPR
4 Cyl (4-Stroke)	2 PPR	1 PPR	0.5 PPR	2 PPR	2 PPR
2 Cyl (4-Stroke)	1 PPR	1 PPR	0.5 PPR	2 PPR	1 PPR
1 Cyl (4-Stroke)	0.5 PPR	1 PPR	0.5 PPR	2 PPR	0.5 PPR
3 Cyl (2-Stroke)	3 PPR	3 or 6 PPR	1 PPR	3 or 6 PPR	3 or 6 PPR
2 Cyl (2-Stroke)	2 PPR	2 PPR	1 PPR	2 PPR	2 PPR
1 Cyl (2-Stroke)	1 PPR	2 PPR	1 PPR	1 PPR	1 PPR

**SETTING PULSES PER
REVOLUTION (PPR)**

ATTENTION: PPR calibration **REQUIRED**.
Tachometer **WILL NOT** operate correctly until
PPR has been set.

- 1 PRESS and hold the menu button while gauge is powered OFF.
- 2 POWER gauge ON and release the button. Pointer will move to the factory default position (4 Pulses per Revolution) at 4000 RPM.
- 3 PRESS the button to toggle between PPR settings (Figure 1) until pointer reaches desired PPR. After 5 seconds, the gauge will save the setting, the pointer will return to 0, and the tachometer will resume normal operation.

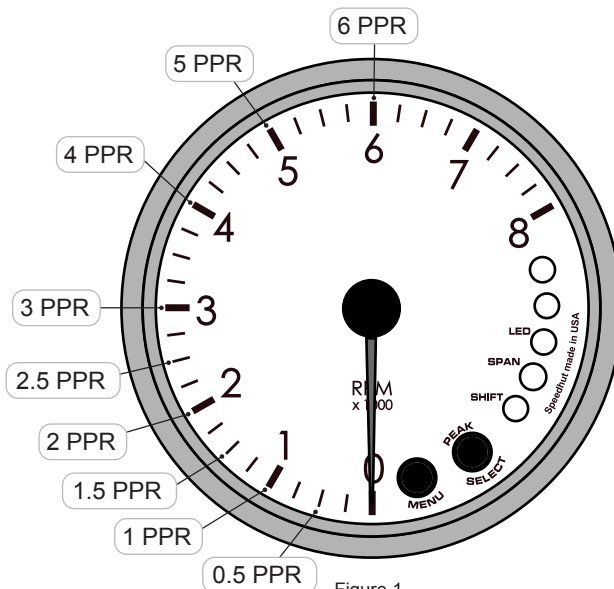


Figure 1.

ATTENTION: If the tachometer is reading higher than it should, raise the PPR. If the tachometer is reading lower than it should, lower the PPR.

Tachometer PPR can be calibrated from 0.5 PPR - 6 PPR.

PEAK RECALL

- 1 POWER gauge ON.
- 2 PRESS AND RELEASE the peak button. Pointer will travel to high peak until button is released.
- 3 To RETAIN peak reading, release the button and wait 2 sec. Gauge will return to normal and retain reading.
- 4 To CLEAR peak reading, release the button and then PRESS AND HOLD for 2 sec. Pointer will travel to zero to indicate peak has been cleared.

SET LED BRIGHTNESS

- 1) Setting LED brightness while gauge lighting is OFF will set DAY LED brightness.
- 2) Setting LED brightness while gauge lighting is ON will set NIGHT LED brightness.

1. POWER gauge ON.
2. PRESS AND RELEASE the menu button until "LED" is lit.
3. PRESS the select button to enter the LED brightness mode.
4. Use "menu" and "select" buttons to adjust brightness.
5. Wait until the LEDs BLINK to indicate setting has been saved.

1 - 2 - 3 - 4 (Most Bright)

ATTENTION: If the tachometer signal wire is connected to the wrong coil wire, the tachometer will NOT function. **This will NOT damage the tachometer or the vehicle's ignition system.**



SET YOUR SHIFT POINT AND RPM SPAN

This technology lets you anticipate the next shift point by displaying 3 yellow warning LED's before reaching the set shift point Red #1 LED. The span between the LED's can also be set. Red #2 is an over-shift light that blinks if you exceed the set shift point by set span value. If, for any reason a shift and over- shoot your shift point this light will blink.

The following procedures can be done at any time during operation of the tachometer while the tachometer has power.

SHIFT POINT SET

Red #1 is set shift point. The 3 Yellow LEDs will turn on before the set shift point by the amount of span selected.

1. Press and release menu button until 'shift' LED is lit.
2. Press and release the 'Select' button. LED will blink once to indicate you have selected the RPM shift point.
3. Set shift point.
 - Press and hold 'Select' button to increase RPM shift point.
 - Press and hold 'Menu' button to decrease RPM shift point.

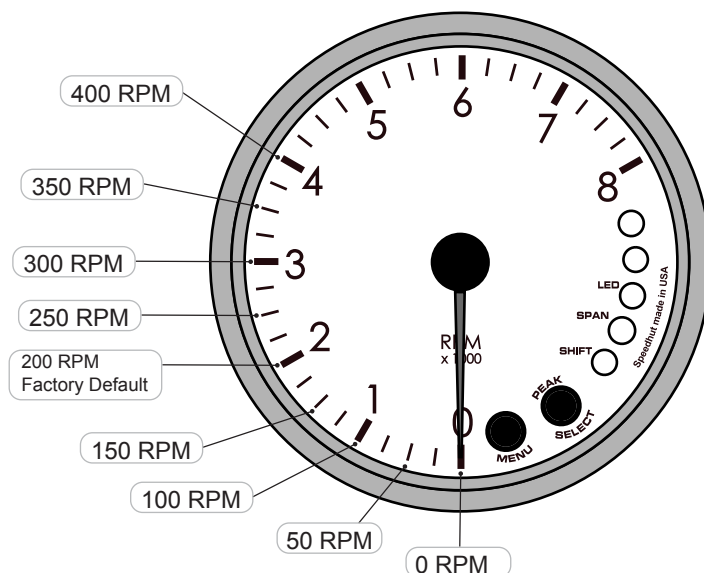
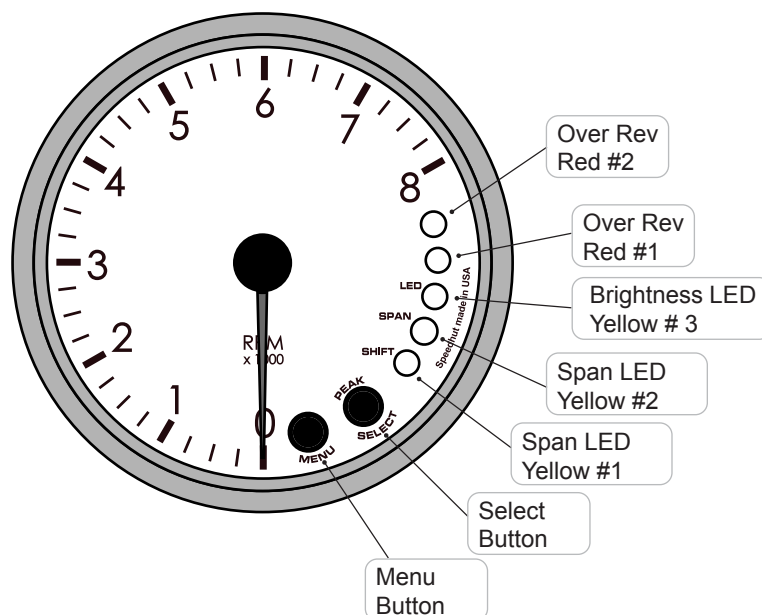
After desired shift point is reached release buttons for 2 seconds. LED will blink 2 times to confirm new shift point has been saved.

SHIFT RPM SPAN SET

The shift span is the RPM range between the lighting of the LEDs. Setting a span of '0' RPM will turn on all 5 LEDs at the set shift point.

Example: Shift point set at 6500 RPM, span set at 200 RPM. yellow #1 will light at 5900 RPM, yellow #2 at 6100 RPM, yellow #3 at 6300 RPM, red #1 (shift point) at 6500 RPM, finally red #2 will blink at 6700 RPM.

1. Press and release 'Menu' button until 'Span' LED is lit.
 2. Press and release 'Select' button. LED will blink once to indicate you have selected the RPM span point.
 3. Set RPM span.
 - Press and hold 'Select' button to increase RPM span.
 - Press and hold 'Menu' button to decrease RPM span.
- After desired span is reached release buttons for 2 seconds. LED will blink 2 times to confirm new RPM span has been saved.



TROUBLESHOOTING

If the tachometer pointer is not moving, check that you are connected to the correct coil wire and that the gauge is getting power. If connecting to an OEM ECU, you may need a pull up resistor as shown on page 1.

If the tachometer pointer is not stable and bounces around, this may indicate that the tach is picking up electrical noise. Isolate the wire and move it away from any high-voltage sources like spark plugs and relay switches.

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