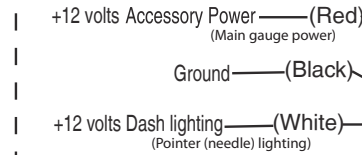


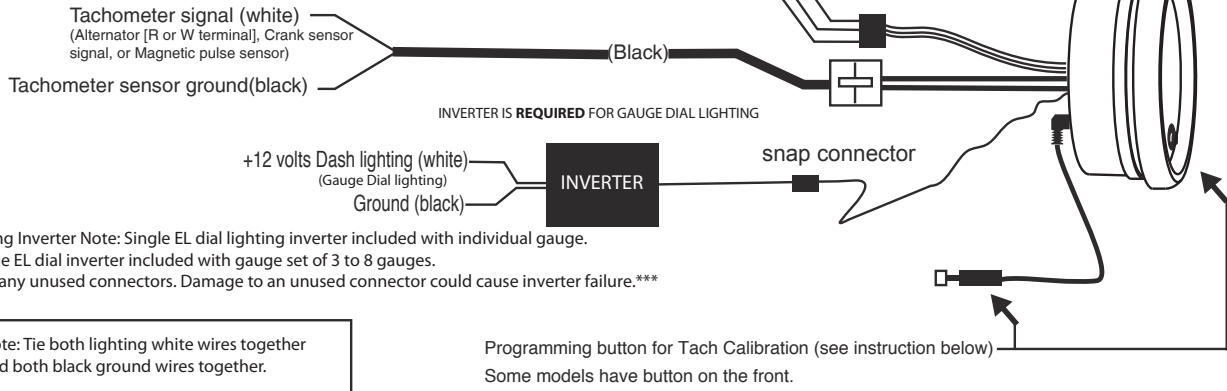
**Caution:**

- 1 Do NOT handle coil wires when car is running. High voltage is sometimes present.
2. Do NOT try to splice directly into a spark plug wire. This will damage tachometer.
3. Wear safety glasses.

Power distribution cable to plug all gauges into



Power Draw = 0.2 Amp  
3A to 5A Inline Fuse Recommended  
for +12 Accessory Power



Dial Lighting Inverter Note: Single EL dial lighting inverter included with individual gauge.  
Multi-gauge EL dial inverter included with gauge set of 3 to 8 gauges.

\*\*\*Protect any unused connectors. Damage to an unused connector could cause inverter failure.\*\*\*

Note: Tie both lighting white wires together and both black ground wires together.

Programming button for Tach Calibration (see instruction below)  
Some models have button on the front.

① Mount tachometer in good location for easy viewing. Use included spin ring.

② Hook up red, black, and white wires. (Refer to schematic above)

Note: Your diesel tachometer will read any signal > 0.6 volts in any wave form pattern generated from a tach signal source. The typical options for a tach signal source are the Alternator (from the terminal labeled "R" or "W"), Crank sensor signal, or Magnetic pulse sensor.

### Calibration procedure

1. Verify that your tachometer is connected to the signal source outputting the tachometer signal.
2. While holding button turn tachometer power on. Start engine. Pointer (needle) will move and point to 1K then release button.
3. Press and hold the button to move pointer (needle) to select the RPM that the engine is currently running at. Note: To change the pointer movement direction release the button then press and hold again
4. Release button and wait until tachometer swings to 0 and then back to new calibrated RPM.
5. Your tachometer is now calibrated. Calibration is permanently stored in tachometer memory and will not erase if tachometer is disconnected from power.
6. If needed you can repeat the procedure to recalibrate tachometer.

**\*\*The following steps apply to 2-1/16", 2-5/8", 3-3/8" Legacy and Revolution and 4" Legacy Diesel Tachometers\*\*  
(Please see the next page for 4" Revolution Diesel Tachometers)**

### 3 Peak memory recall feature

Press and hold gauge button down and gauge needle will display maximum peak reading for as long as button is pressed down. LED (Revolution Tachometer) will stay lit while showing peak reading.

Note if button is held for longer than 10 seconds, tach will enter shift light set mode. (see step 5 below)

#### To retain peak reading (NOT CLEAR IT):

While showing peak reading, release button, wait 2 seconds, gauge will return to normal operation and retain the peak reading.

#### To clear peak reading:

While showing peak reading, release the button, and immediately press and release the button again within 2 seconds. The LEDs will flash (Revolution Tachometer) 2 times and pointer will travel to zero to indicate peak has been cleared.

### 4 Set your shift point

Note: Legacy tachometers without internal shift lights can still use a mini shift light. If you have a legacy tachometer you will need to have a shift light plugged into the back of the gauge in order to set the shift point.

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

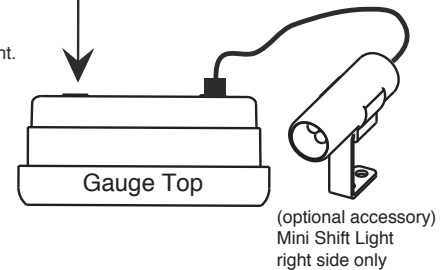
#### Shift point set

1. Press and HOLD the button for approx. 10 seconds (hold past peak recall). Pointer will travel to current set shift point.
2. Press and Hold to move pointer up and down dial. Releasing button and pressing and holding again will change pointer movement direction.
3. At desired shift point, release button for 5 seconds. LED will blink and pointer will return to zero position on dial. New shift point is now stored in memory.

Note: Tachometers can also use the optional mini shift light (sold separately). Simply, plug the mini shift light into the RIGHT port (see fig 2) on the back of the tachometer and the mini shift light will operate at the same time as the internal LED shift light. Legacy tachometers that do NOT have internal LED shift lights can still use a Mini Shift Light.

Note: If your tach does not have a button on front of tach, plug button cable in back on LEFT SIDE only

(fig 2)



Note: Tachometers have port on right side for Mini Shift Light. (sold separately)

### 5 Set your shift light LED brightness

A unique day and night shift light LED brightness setting can be set on the tachometer. This setting effects internal shift LEDs (optional on some models) and remote Mini Shift Light if installed. Each setting has 4 possible positions including 'off'. The tachometer automatically knows which day or night value to set by sensing the voltage on the white wire connected to your dash lighting. Setting the LED brightness value with your lights 'on' will result in setting the 'night' brightness value. And likewise, setting the LED brightness value with your lights 'off' will result in setting the 'day' brightness value.

At any time while tachometer has power, press and release LED button to show current LED brightness. After a couple second delay, if button is not pressed this current setting is re-saved. LED will blink to indicate setting has been saved. To change LED brightness press and release the button to advance to next higher brightness level. LED brightness will loop through 5 possible brightness settings include off as you press and release the button. At acceptable brightness level do not press button for couple second delay. LED will blink to indicate setting has been saved.

Note: Setting the brightness level when gauge lighting is on, will set the night brightness level. Setting the brightness level when gauge lighting is off will set day brightness level.

Note: Optional mini shift light will also adjust brightness in accordance with the internal tach LED.

## \*\*\*The following steps apply to the Revolution 4" Diesel Tachometer\*\*\*

### 6 Set your shift point and RPM span

One of the most exciting features of the Revolution tachometer is the integrated shift LED's in the dial. This new 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 the set span value. If, for any reason you miss 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

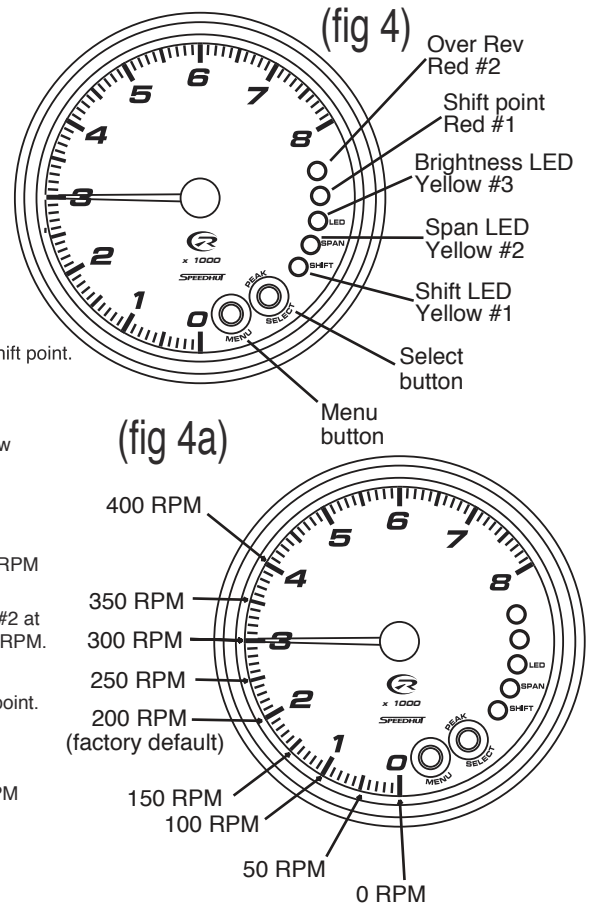
The shift span is the RPM range between the lighting of the LEDs. (See fig. 4a). Setting a span of '0' RPM will turn on all 5 LEDs at the set shift point.

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.



### 7 Set your LED brightness

A unique day and night LED brightness setting can be set on the Revolution tachometer. Each setting has 4 possible brightness positions including 'off'. The tachometer automatically knows which day or night value to set by sensing the voltage on the white wire connected to your dash lighting. Setting the LED brightness value with your lights 'on' will result in setting the 'night' brightness value. And likewise, setting the LED brightness value with your lights 'off' will result in setting the 'day' brightness value.

To set LED brightness, press and release menu button until Brightness LED is lit (see fig. 4). Press and release select button.

Press and release select button to increase brightness.

Press and release menu button to decrease brightness. After 2 second delay LED will blink to indicate setting has been saved.

### 8 Peak Memory Recall Feature

1. To show peak recall press and release peak (select) button.  
Peak RPM will be displayed for a couple seconds.  
After couple second delay tachometer will go back to normal operation.

2. To clear peak RPM press and release peak (select) button. During the peak RPM display press and release peak button again. This clears the RPM. LED will blink to indicate memory cleared.

### 9 Auxiliary mini-shift light (optional)

Note: The auxiliary mini-shift light can be purchased separately and added to tachometers that don't have the auxiliary mini-shift light. Mini-shift light plugs into the back of the tachometer.

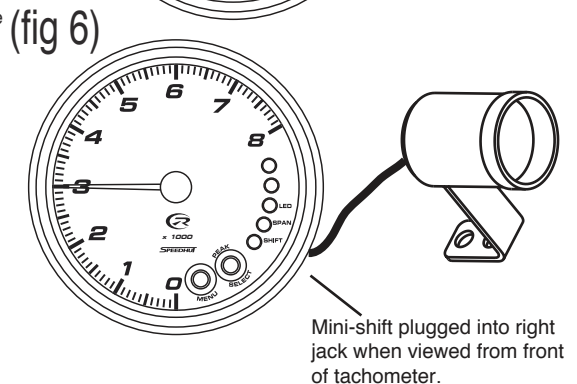
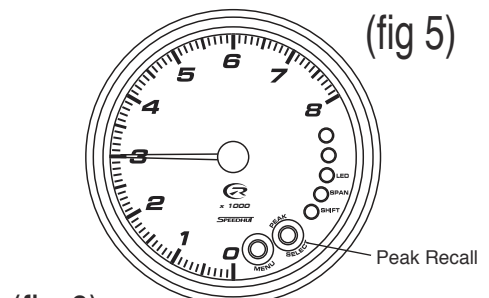
Setting mini-shift set point:

Mini-shift set point will turn on at shift point setting (Red #1). Refer to setting shift point in step #6.

To change Mini-Shift Light brightness:

Press and release menu button until Red #1 (aux. brightness) is lit (see fig 4).  
Press and release select button to enter mode.  
Press and release select button to increase brightness.  
Press and release menu button to decrease brightness.

After 2 second delay tachometer LEDs will blink to indicate brightness setting has been saved.



**Note: ONLY plug MINI-SHIFT into tachometer when powered off**