



## Instructions for 80mm 12volt Motorsport Tachometers

**RTTC\*** (with max revs recall)  
**RTTC\*-SL** (max revs recall + shift light function)

AVAILABLE RANGE:  
(0-8000) (0-10,000) (0-12,000)

**Caution**  
**Disconnect the negative battery  
cable prior to any installation**

RACETECH DESIGN  
UNIT 3, ROCKFORD IND EST  
WALLINGFORD, OXON, OX10 9DA,  
United Kingdom.

TEL: +44 (0) 1491 822000  
FAX: +44 (0) 1491 822009  
EMAIL: [INFO@RACETECHDESIGN.COM](mailto:INFO@RACETECHDESIGN.COM)  
[www.racetechdesign.com](http://www.racetechdesign.com)

Products designed and manufactured under ISO  
9001:2000 quality standard.

### INSTRUCTIONS

RTTC\* - featuring max revs recall.  
RTTC\*-SL - featuring max revs recall and shift LEDs.

### USE ON NEGATIVE EARTH VEHICLES ONLY

### INSTALLATION

To fit the tacho, an 80mm clearance hole is required.  
A suitable location must be selected to fit the programming switches and their labels—2 holes 6.35mm (1/4") are required in a flat area large enough for the legend labels (enclosed). Ensure orientation of the toggle switch is correct (see diagram). The harness provided should be connected as follows.

Electrical Connections	
Wire Colour	Connect To
Green	Switched 12v supply
Black	Ground
<u>OPTION 1</u>	
Red/blue	Switched side of ignition coil of contact breaker ignition system
<u>OPTION 2</u>	
White/black	ECU or electronic ignition tacho signal
Red/black	Ground (for illumination)
Red/white	Illumination +ve supply, connect to sidelight feed

### OPERATION

#### 1. Set the number of engine cylinders.

For conventional ignition systems, 1 coil and 1 distributor. With the ignition switched off, press and hold the menu/select button. (Keeping the button pressed) switch on the ignition. Keep holding the button until the pointer moves to the factory setting of 4 cylinders. Each subsequent press of the menu/select button will increment the pointer by 1000rpm (or 1 cylinder), up to a maximum of 12 cylinders. When the number of cylinders exceeds the full scale then the pointer will move backwards with each minor chaplet (scale mark) representing a 1 cylinder increment. If 12 cylinders is exceeded, then the sequence will restart at 1 cylinder (1000rpm). When the pointer is at the correct cylinder number, press and hold the button until the pointer resets, then cycle the ignition to store the set up and return to normal operation.

For lost spark ignition systems:

These systems have two double ended coils and no distributor. Connect the red/blue lead to one coil only. The procedure is as above but the values must be halved, so for 4 cylinders the setting will be 2000rpm (not 4000). When the pointer is at the correct cylinder number, press and hold the button until the pointer resets, then cycle the ignition to store the set up and return to normal operation.

For other ignition systems please contact our technical support team at [INFO@RACETECHDESIGN.COM](mailto:INFO@RACETECHDESIGN.COM)

#### 2. Shift LED Threshold Setting (SL model only).

Each shift LED is independently adjustable within the limits of the non-compressed scale. To alter the settings at any time (engine running or not) press and release the menu/select button once. The green LED will illuminate first and the pointer will move to the current green LED threshold setting. To raise the threshold, press the set/adjust toggle switch—either hold down to increase at a constant rate, or press and release to move in tiny steps. If the maximum is exceeded then the setting will cycle back to the minimum.

To adjust the amber LED, press the menu/select button again, this time the amber LED will illuminate and the pointer will move to the 'green' set point. Using the toggle switch as described above, move the pointer to the desired set point.

*Note: in setting the 'amber' start point, you also set the 'green' off point. Press the menu/select button again and use the toggle switch to adjust the red LED. Again, in setting the 'red' start point, you also set the 'amber' off point.*  
After setting each value, press the menu/select button once to move to LED intensity setting or press twice to return to normal operation.

#### 3. Shift LED Intensity Setting (SL model only).

Following the threshold setting of the red LED (as described in item 2. above), the next (fourth) press of the menu/select button will illuminate all three of the LEDs. The intensity of the LEDs can be increased by pressing the set/adjust toggle switch. The intensity will increase while the switch is pressed, up to a maximum level. Once the maximum level is reached, the illumination cycles back to minimum. The final press of the menu/select button will store the last setting and return the unit to normal operation.

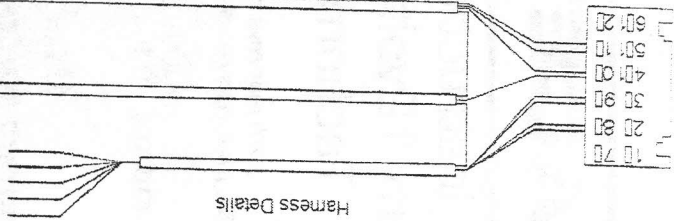
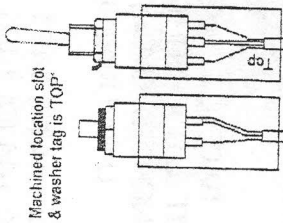
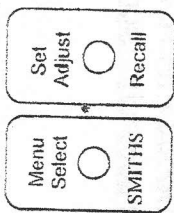
#### 4. Recall Max Engine Speed.

Simply press RECALL. The pointer will move to the previous maximum revs. This value is retained with the ignition off.

#### 5. Recall Reset.

Press RECALL to move the pointer to previous maximum revs. Press Recall again (while maximum revs is indicated). Recall will reset.

Push Button Toggle Switch (Top)



Harness Details