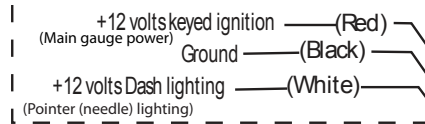


4" and 4-1/2" Playback Tachometer Instructions

CAUTION:

1. **DO NOT** handle coil wires when engine 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 eye protection.

Power distribution cable to plug all gauges into



Power Draw = 0.2 Amp
3-5 Amp Inline Fuse
Recommended

Note: Required to light-up tachometer dial.

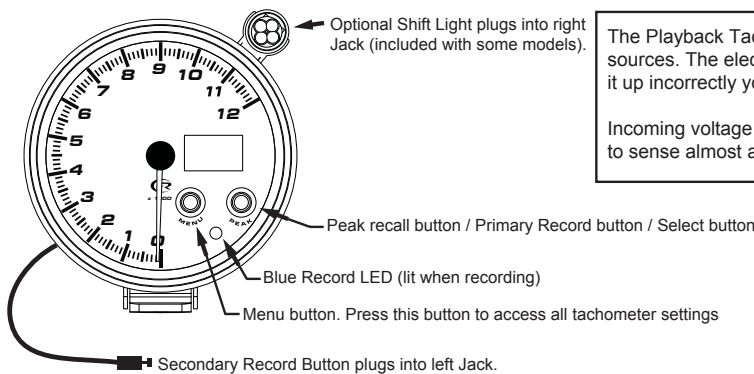
+12 volts Dash lighting (white)
(Gauge Dial lighting)

Ground (black)

Inverter

Ignition coil or tachometer output. (Yellow/Green)

Secondary Record Button plugs into left Jack.
The optional Shift Light plugs into the right Jack.

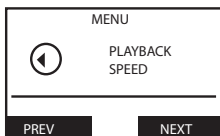


The Playback Tach is designed to work on a wide variety of ignition systems with D/C power sources. The electronic circuit board inside is voltage spike protected, if you happen to connect it up incorrectly you will not damage the tachometer- the tachometer will simply not work.

Incoming voltage pulse signals on yellow/green wire can range from 0.5 to 300 Volts allowing it to sense almost any type of ignition pulse.

Setup Instructions

Playback Speed

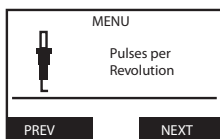


1. Momentarily press the menu button to access the menus.
2. Press and hold the Settings Button (right button)
3. Toggle next until playback speed is selected.
4. Press and hold EITHER button to enter menu.
5. Toggle up/down to select either 1:1 or 1:3.
6. At desired playback speed after couple seconds setting is saved

1:1 Is played back in real time
1:3 is played back in 1/3 speed.

Use this menu to select how fast you would like the tachometer to playback your run.

Pulse Per Rev Setup. (PPR)



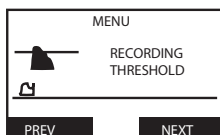
1. Momentary press the menu button to access the menus.
2. Press and hold the Settings Button (right button)
3. Toggle next until Pulse per Revolution menu is selected.
4. Press and hold EITHER button to enter menu.
5. Toggle up/down through available pulses per rev.
6. At desired Pulse Per Rev after couple seconds setting is saved

Note: The PPR is used to calculate how many ignition pulses per revolution of the engine.

This setting can be changed at anytime, so experiment until it is right.

For example:
8 cylinder (single coil) 4 stroke, engine typically is 4 PPR.
MSD ignitions are usually 1 PPR.

Recording Threshold



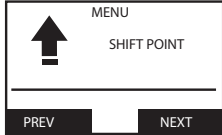
1. Momentary press the menu button to access the menus.
2. Press and hold the Settings Button (right button)
3. Toggle next until recording threshold is selected.
4. Press and hold EITHER button to enter menu.
5. Toggle up/down to move pointer to desired RPM.
6. At desired recording threshold after couple seconds setting is saved

Recording threshold is the RPM the engine must exceed before the tachometer starts to record. So for example if you select an RPM of 4500RPM the tachometer will start to record after the RPM passes this point. Once RPM has exceeded this point, recording will start. This allows the user to press the record button while staging at the starting line and not worry about the loss of recording time while staging.

Setting the RPM threshold at 0 will turn this feature off and start recording as soon as the record button is pressed.

Note: If threshold RPM is setup, pressing the record button will flash the blue LED to indicate that the recording feature has been initiated but NOT recording until threshold RPM is breached. Once this occurs the blue LED will turn solid blue indicating recording has started.

Shift Point Set / RPM event

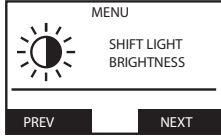


1. Momentary press the menu button to access the menus.
2. Press and hold the Settings Button (right button)
3. Toggle next until Shift Point menu is selected.
4. Press and hold EITHER button to enter menu.
5. Toggle up/down to move pointer to desired shift point.
6. At desired shift point after couple seconds setting is saved

Note: The shift point controls when the external shift light will turn on. The brightness is controlled in another menu.

To trigger an RPM event consult the factory for wiring instructions.

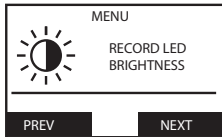
Shift Light Brightness



1. Momentary press the menu button to access the menus.
2. Press and hold the Settings Button (right button)
3. Toggle next until shift light brightness is selected.
4. Press and hold EITHER button to enter menu.
5. Turn shift light ON or OFF

0 = Shift light is OFF
1 = Shift light is ON

Record LED Brightness

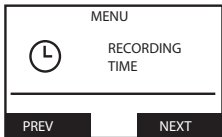


1. Momentary press the menu button to access the menus.
2. Press and hold the Settings Button (right button)
3. Toggle next until record LED brightness is selected.
4. Press and hold EITHER button to enter menu.
5. Toggle up/down to select from 0-4 settings
6. At desired record LED brightness after couple seconds setting is saved

0 = Record LED is OFF
1 = Lowest brightness
4 = Highest brightness

As you toggle through brightness settings you will see the record LED light change in brightness.

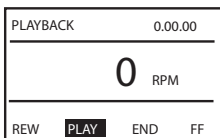
Record Time Menu



1. Momentary press the menu button to access the menus.
2. Press and hold the Settings Button (right button)
3. Toggle next until recording time is selected.
4. Press and hold EITHER button to enter menu.
5. Toggle up/down to select from 1 minute, 5 minutes or 10 minutes.
6. At desired recording time after couple seconds setting is saved

1 minute = 100 samples / second
5 minutes = 20 samples / second
10 minutes = 10 samples / second

Playback Menu



1. Momentary press the menu button to access the menus.
2. Press and hold the playback Button (left button)
3. Run will start to play.back at set playback speed (1:3 or 1:1)
4. Use buttons to toggle between menu items.
5. To exit run select END.

REW- press and hold this button to rewind run. Momentary press this button to step back through the run 1/100th of second.

PLAY/ PAUSE - press this button to play or pause the run.

END- exits run. Run is stored until next run is recorded.

FF- press and hold this button to fast forward run. Momentary press this button to step through run 1/100th of second.

Recording Runs

1 run can be stored up to 60 seconds, 5 minutes or 10 minutes in length.

To record a run press the Record/peak button on the front of gauge or press the secondary button (included) for 2 seconds. Recording will start and Blue LED will turn on.

Note: If threshold RPM is setup. Blue light will flash to indicate that the record is ready to start once RPM passes threshold RPM. Then LED will turn solid blue.

Run will be stored (even if power is turned off) until next run is recorded. New run will then overwrite old data.

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