



Pro-Tech[™] SERIES Playback Box[™] RECORDER

MODEL
9160

With 10 Minute Recording Memory
For Oval Track or Road Race use

QUICK REFERENCE

For reference only, for complete instructions see inside.



BEFORE THE RACE

1. Press •RECORD.
2. Press •START.
3. Press •STOP when run is over.

AFTER THE RACE

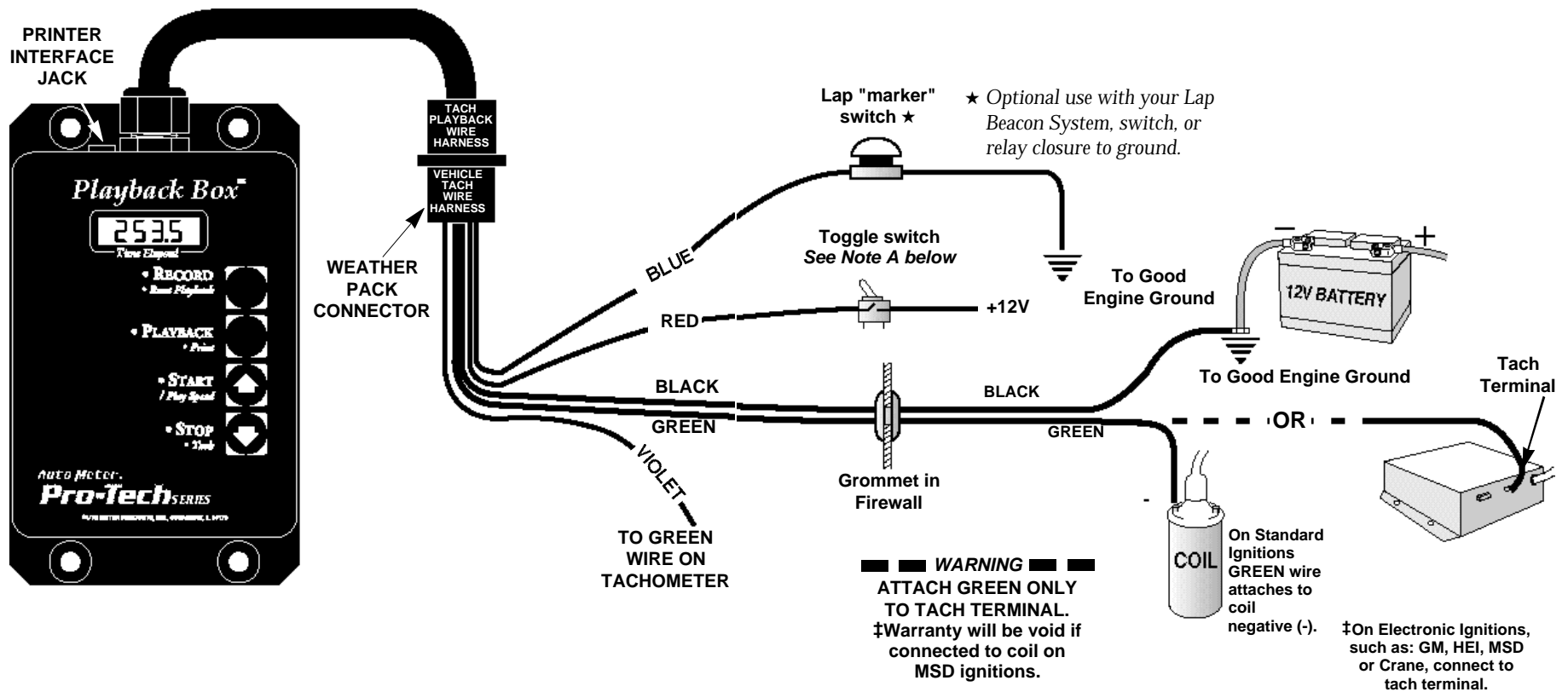
1. Press •PLAYBACK.
2. Press •START.
3. Press •STOP when run is over.

OPERATION MANUAL

WIRING INSTALLATION



See page 4 for calibrating for 4 or 6 cylinder engines.



Note: To use the Playback Box with the tachometer, plug the Playback Box wire harness into the vehicle tach wire harness connector. To use the tachometer without the Playback Box, disconnect the Playback Box and plug the bypass connector into the vehicle tach wire harness connector (Weather Pack connector).

Note: This playback recorder operates on standard, factory electronic and high performance electronic racing ignitions, such as Crane and MSD. (This tach is NOT recommended for use on Accel BEI or Laser I & II ignitions. These ignitions require model 5215 adapter.)

Note A: To allow proper data collection "Shut-Down", it is best to maintain 12V power to the Playback Box for 5 to 10 seconds after recording is stopped. To do this, the red wire can be connected thru a separate toggle switch directly to +12V instead of to the ignition switch.

Note B: No 12V or Dry Cell Battery power is needed to maintain Memory. Data in Memory will remain accurate over any amount of time until it is recorded over.

DEFINITIONS TO KNOW

On the Control Module:

• = A single push of the button. e.g. •START
/ = Button is held until digital display changes to desired function.
e.g. /PLAY SPEED

Time out = The playback recorder will automatically return from function or setup to TACH mode in 15 to 20 seconds if you do nothing. Record and playback are the only functions this will not work in.

PLAYBACK RECORDER SETUP

IMPORTANT

After installation, the recorder should be checked for the proper cylinder setting. It is adjustable for 4, 6 and 8 cylinder engines. For other applications, contact Auto Meter for information. The recorder is factory preset for 8 cylinders. To check or change the cylinder selection:

1. First, make sure the display is showing TACH. If not, wait 15 - 20 seconds for the recorder to time out and show TACH, or turn the power off and then back on.
2. Press and hold the •START button until the display reads "1=1" or "1=2". Release the •START button.
3. Press and hold the •RECORD button until display reads xCYL, where x indicates the number of cylinders selected.
For example: 8CYL
4. Press the UP or DOWN arrow button to select the proper number of cylinders. Select 4, 6 or 8.
5. When the proper cylinder setting is displayed, press the •RECORD button to select this setting. If •RECORD is not pressed, the recorder will time out and automatically select the displayed setting.



RECORD & PLAYBACK OPERATION

Record & Playback Features

The Playback Box recorder allows you to record and playback race performance by recalling actual tachometer readings along with elapsed recording time. One recording of up to 10 minutes can be made in the Playback Box Recorder's Memory. The recording is saved, even when the power is turned off, until overwritten by a new one. The Playback Box LED display will not show elapsed time during recording; this is only displayed during half-speed or full-speed playback. Time is shown in [Seconds].[Tenths of a second]. For example: 253.5 is equal to 253 and 5 tenths seconds or 4 minutes and 13.5 seconds.

For less than 100 seconds the time is shown in [Seconds].[Hundredths of a second]. For example: 36.19 seconds.

Recording

1. First make sure the display is showing "TACH". If not, wait for the Playback Box to time out or turn the power off and then back on.
2. To select record mode press the •RECORD button. The display will show "REC".
3. To start the recording press and release the •START button. The display will show "RECD", indicating recording is in progress.
4. To mark laps, press the normally open momentary switch at the end of each lap.
★Note: Other lap detection systems such as trackside infrared with contact closure to ground or relay may be used instead of momentary switch.
5. To stop the recording, press the •STOP button, or allow the Playback Box to record until the Memory is full (about 10 to 12 minutes). At the end of recording, the Playback Box automatically stops recording and returns to TACH mode.

Warning: Do not turn the power off while the Playback Box is recording because this may corrupt the recording. When recording, be sure to press the •STOP button before turning the power off.

