

# MSD INSTALLATION INSTRUCTIONS

## Digital Soft-Touch HEI Rev Limiter PN 8727CT

### Parts Included:

1 - Digital HEI Rev Limiter

1 - Wiring Harness

2 - Mounting Screws and Nuts

**WARNING:** Before installing the Digital Soft-Touch HEI Rev Limiter, disconnect the battery cables. When disconnecting the battery cables, always remove the Negative (-) cable first and install it last.

The Digital HEI Rev Limiter is designed to provide an accurate engine rpm limit for racers using a GM based HEI (internal coil) Distributor. The rev limit is easy to set with two rotary dials in 100 rpm increments with a range from 3,000 – 9,900 rpm. The advanced digital technology of the Limiter provides a very accurate and smooth rev limiting action. The Limiter also has a built-in recall feature that will record the peak rpm recorded and will display that rpm value for five seconds when the ignition is turned on.

### MOUNTING

The Digital Rev Limiter is designed to be mounted in the engine compartment or interior though it should be mounted away from high heat sources. It is recommended to mount the unit within easy view for the crew and tech inspectors to easily view the LED display for limit confirmation and adjustments.

Position the unit where the LED and adjustment dials are easy to view and access. Make sure the wiring harness reaches the distributor and mark the location of the mounting holes. Use a 3/16" bit to drill the holes and mount the unit with the supplied hardware.

### RPM LIMIT AND SETTINGS

The rpm limit is set using the two rotary dials on the unit with a range of 3,000-9,900 rpm in 100 rpm increments. The left dial controls the 1,000s and the right dial controls the 100s of the desired rpm value (Figure 1). There are small numbers on the dials to show the rpm value however the LED will display the rpm value being set when the ignition is in the On position (engine can be running or not)

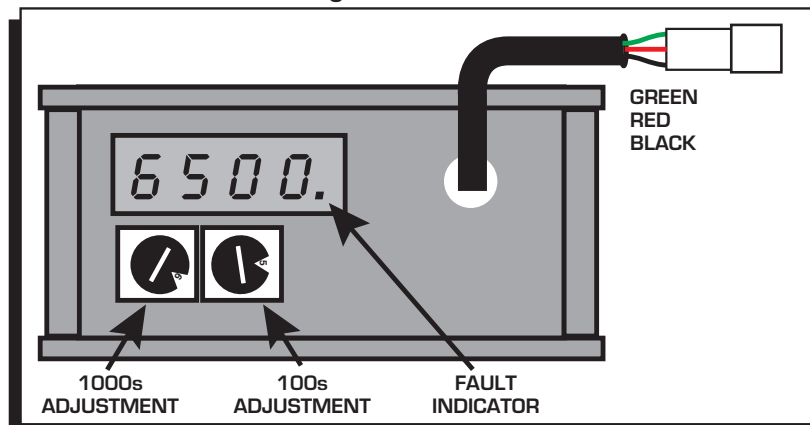


Figure 1 The Digital HEI Rev Limiter.

**Maximum RPM Recorded:** The PN 8727CT records the maximum rpm value that the engine reached in the last 20 minutes of power on. When the ignition is turned on, the max rpm will flash on the display for the first five seconds before reverting to the set rpm limit.

To reset the maximum rpm value, power to the PN 8727CT must remain on for 20 consecutive minutes.

**Faults:** The Digital Rev Limiter will record and display an 'F' to show a Fault occurred to alert of a wiring or operation discrepancy. The 'F' will display on the LED screen for three seconds after the Max RPM is shown at ignition on. Also, a flashing decimal point to the right of the LED read out to alert when a Fault has been recorded. An 'F' will be recorded when the Green wire is disconnected or opened with the engine running above 2000 rpm.

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## WIRING

The supplied harness plugs into the Rev Limiter and then should be routed to the HEI Distributor Cap. Red connects the B+ (Battery positive) terminal of the cap and the Green wire connects to C- (Coil negative). It is recommended to connect the Black wire to the engine block or common ground stud. Proper grounds are imperative to the operation of the Rev Limiter and other electronics of the racecar and must be installed to a clean, secure, ground source.

**Caution:** It is important to note that if the Black wire loses ground or the Red wire is disconnected from 12 volts, **the engine will shut off.**

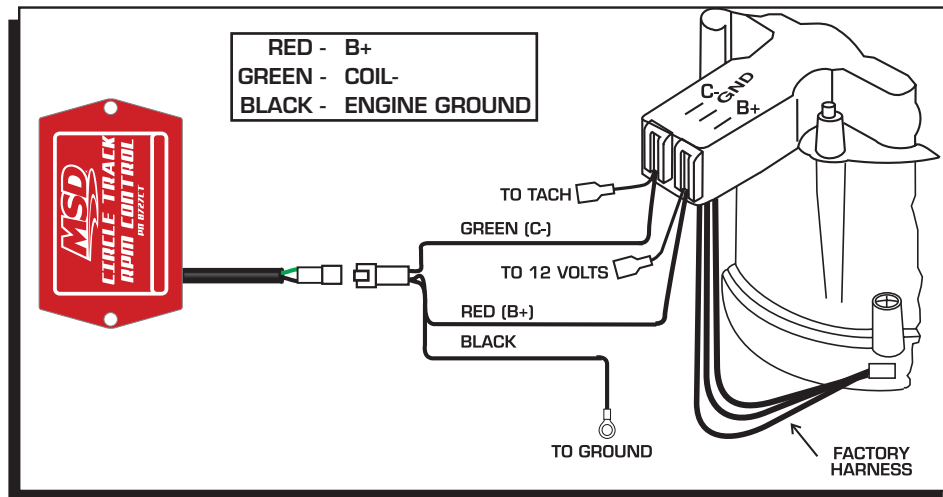


Figure 2 Wiring the Digital HEI Rev Limiter.