This Module is a performance replacement for GM’s 4-Pin HEI Module. It features a programmable rev limiter for overrev protection. The Module will mount in a stock HEI housing (by removing the original condenser assembly) or in MSD’s Pro-Billet HEI Distributor, PN 8365. A GM Coil can be used or for maximum performance, use MSD’s HEI Coil, PN 8225.

**Parts Included:**
1 - HEI Module, PN 83647
1 - Tube of Heat Sink Compound
1 - Gray Tach Wire
2 - Mounting Screws and Star Washers
1 - Low Resistance Rotor Bushing, PN 8412

**INSTALLATION**

1. Mark the location of the spark plug wires on the cap prior to removal.
2. Remove the cap, rotor, module and condenser (if equipped) from the original distributor.
3. Apply a liberal coat of the Heat Sink Compound to the aluminum base of the Module.
4. Route the wiring harness out of the housing and position the short Black wire to ground with one of the mounting screws (Figure 1).
5. Position the module in the distributor then locate the two screws and star washers to secure the module (Figure 1).
6. Reinstall the rotor and cap.
7. Connect the HEI Module harness to the Distributor Cap followed by the 12 volt (BAT) wire. This wire should be at least 14-gauge (Figure 2).

**Note:** A tachometer is required to program the rev limit.
8. Connect the long black wire to the engine block for a solid ground.
9. See the next page for tachometer and rev limit programming.
10. It is recommended to install the supplied low resistance rotor bushing. This improves the spark transfer from the coil to the rotor tip. Remove the coil cover and coil. Replace the rotor bushing.

**Figure 2 Connecting the Module and Tach Lead.**

**TACHOMETER INFORMATION**

The HEAT Digital HEI Module has a Gray wire that provides a 12 volt square wave, 20° tachometer signal that will trigger most tachometers. It is recommended to connect this lead to your tach's trigger input wire and check its operation. If the tach requires a higher voltage signal, connect its input wire to the Tach terminal on the HEI Cap (Coil-/Tach). Note that the rpm limiter is extremely accurate and due to the variety of tachometers available, there may be differences in the displayed rpm.
PROGRAMMING THE REV LIMIT

A tachometer is required to set the rev limit. The limit is programmed by running the engine at half the desired rpm, then momentarily grounding the Gray tach output wire from the MSD. A Gray jumper wire is supplied to connect to the tach with another tee-splice coming off to use for programming. A switch may also be installed to ease adjustments of the limiter (Figure 3). The default rpm limit is 10,000 rpm.

1. Start the engine and bring the rpm to half the desired rev limit (for a 6,000 rpm limit, raise the rpm to 3,000).
2. While holding the rpm steady, short the Gray tach wire to ground for approximately one second. Note that the tach will go to zero while grounded.
3. The tach will now display the programmed rev limit amount for two seconds. If this value does not register on the tach, repeat the procedure and try a different ground source.

Note: This rpm confirmation only displays when the HEI Gray wire is being used to trigger the tachometer.

REV LIMITER VERIFICATION

The MSD HEAT HEI Module has an optional built-in Rev Limiter Verification feature. When the key is in the On position (not cranking or running), an rpm signal is sent to the tachometer to verify the unit’s rev limit setting. With this function users can be sure of their rev limit settings before each drive.

To enable this feature, follow the procedure below.

Note: It is important to note that this feature should not be used with EFI systems. When activated, an rpm signal is sent to the tachometer. With an aftermarket EFI system, this could activate the injectors causing a flooding situation.

ENABLE REV LIMIT VERIFICATION

1. With the ignition switch in the off position, ground the Gray tach output wire.
2. With the Gray wire connected to ground, turn the ignition on without starting the engine.
3. Hold the Gray wire connected to ground for seven seconds. (AT LEAST five seconds.)
4. Release the Gray wire from ground before ten seconds have passed.
5. To confirm the process has worked, cycle turn the key On. The tachometer should sweep to the rpm limit set on the ignition.

To deactivate the verification feature, repeat the process.

Playback Tach: If you use a playback tach, be sure to check the high rpm value prior to turning the key to the On position. When the key is in the On position, the rev limit will be displayed and may override the tach memory.
Limited Warranty

MSD warrants this product to be free from defects in material and workmanship under its intended normal use*, when properly installed and purchased from an authorized MSD dealer, for a period of one year from the date of the original purchase. This warranty is void for any products purchased through auction websites. If found to be defective as mentioned above, it will be repaired or replaced at the option of MSD. Any item that is covered under this warranty will be returned free of charge using Ground shipping methods.

*Intended normal use means that this item is being used as was originally intended and for the original application as sold by MSD. Any modifications to this item or if it is used on an application other than what MSD markets the product, the warranty will be void. It is the sole responsibility of the customer to determine that this item will work for the application they are intending. MSD will accept no liability for custom applications.