

# MSD IGNITION INSTALLATION INSTRUCTIONS

## MSD Digital HEI Module with TCD PN 83645

This Module is a performance replacement for GM's 4-Pin HEI Module. It features an adjustable rev limiter as well as MSD's patent pending Traction Control Detection system. 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 83645

3 - Mounting Screws and Star Washers

1 - Tube of Heat Sink Compound

1 - Small Screw Driver

### TRACTION CONTROL DETECTION

The Digital HEI Module has a unique Traction Control Detection (TCD) code built into its microprocessor. This technology carefully monitors and examines the signals of the ignition. If the TCD determines that any signal has been modified in any way, the ignition will be put into a low rpm rev limit mode to immediately slow the car. Before this rev limit is imposed, the TCD goes through a list of cycles and checks to qualify that the trigger has been modified. There is no way to bypass or deactivate the TCD circuitry.

### ADJUSTABLE REV LIMITER

The Extreme Output HEI Module also features an adjustable rev limiter. The limit is adjusted through the small rotary dial on the end of the module (Figure 1). This limiter is adjustable from 5,000 - 10,000 rpm. Turning the rotary dial clockwise raises the limit, CCW lowers the rpm limit. It doesn't take much movement for changes so it is recommended to start low and bump the rev limit up a little at a time.

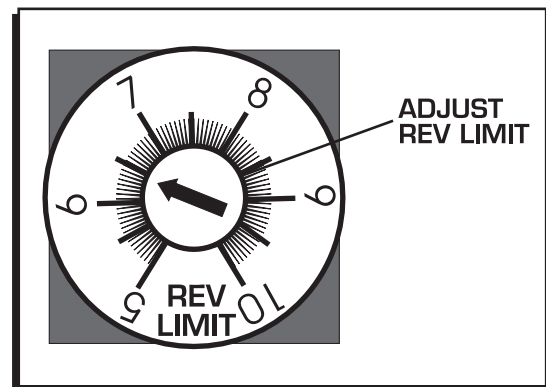


Figure 1 Adjusting the Rev Limiter.

### INSTALLATION

1. Remove the cap, rotor, module and condenser (if equipped) from the original distributor. Make sure the mechanical advance weights move freely and do not bind. Also ensure that the distributor shaft rotates smooth with no wobble or binding.
2. Apply a liberal coat of the Heat Sink Compound to the aluminum base of the Module. Route the wiring harness out of the housing, position the module in the distributor then locate the three screws and star washers to secure the module (Figure 2).

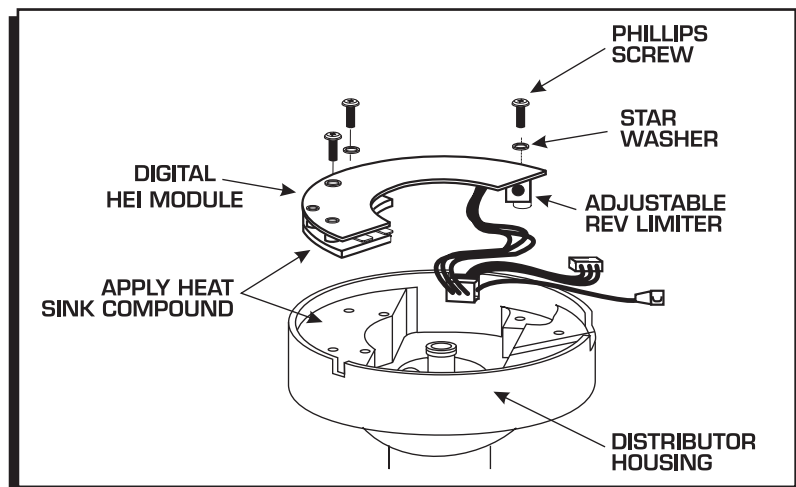


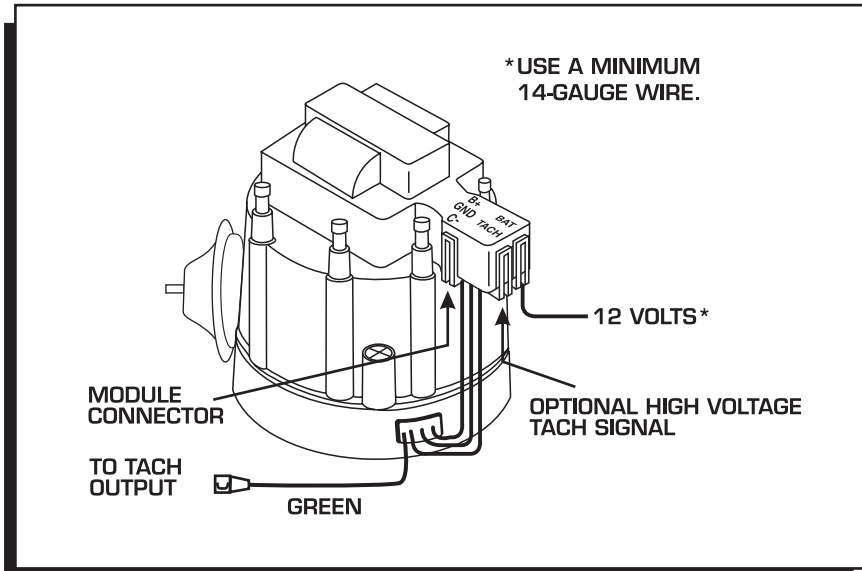
Figure 2 Installing the Module.

3. Reinstall the rotor and cap.
4. Connect the HEI Module harness to the Distributor Cap followed by the 12 volt (BAT) wire. This wire should be at least 14-gauge. See the Tachometer Wiring section before connecting your tachometer (Figure 3).

### TACHOMETER INFORMATION

The Digital HEI Module has a Green wire that provides a 12 volt, 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 it to the Tach terminal on the HEI Cap (Coil-/Tach). An MSD Tach Adapter, PN 8920, could also be used with the Green wire output to boost the voltage signal.



**Figure 3 Connecting the Module and Tach Lead.**

### Service

In case of malfunction, this MSD component will be repaired free of charge according to the terms of the warranty. When returning MSD components for warranty service, **Proof of Purchase** must be supplied for verification. After the warranty period has expired, repair service is based on a minimum and maximum fee.

**All returns must have a Return Material Authorization (RMA) number** issued to them before being returned. To obtain an RMA number please contact MSD Customer Service at 1 (888) MSD-7859 or visit our website at [www.msdisignition.com/rma](http://www.msdisignition.com/rma) to automatically obtain a number and shipping information.

When returning the unit for repair, leave all wires at the length in which you have them installed. Be sure to include a detailed account of any problems experienced, and what components and accessories are installed on the vehicle. The repaired unit will be returned as soon as possible using Ground shipping methods (ground shipping is covered by warranty). For more information, call MSD Ignition at (915) 855-7123. MSD technicians are available from 7:00 a.m. to 6:00 p.m. Monday - Friday (mountain time).

### Limited Warranty

MSD IGNITION 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 Ignition. Any item that is covered under this warranty will be returned free of charge using Ground shipping methods.

This shall constitute the sole remedy of the purchaser and the sole liability of MSD Ignition. To the extent permitted by law, the foregoing is exclusive and in lieu of all other warranties or representation whether expressed or implied, including any implied warranty of merchantability or fitness. In no event shall MSD Ignition or its suppliers be liable for special or consequential damages.

\*Intended normal use means that this item is being used as was originally intended and for the original application as sold by MSD Ignition. Any modifications to this item or if it is used on an application other than what MSD Ignition 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 Ignition will accept no liability for custom applications.