

# MSD<sup>®</sup> 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.

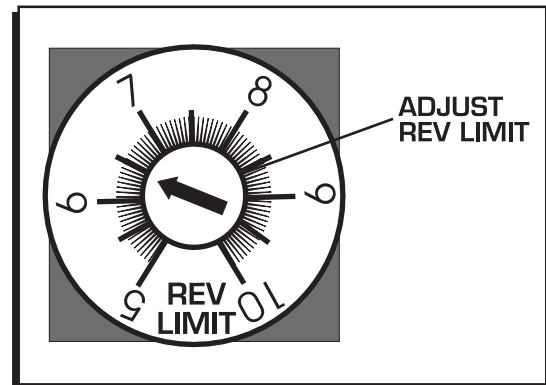


Figure 1 Adjusting the Rev Limiter.

### 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).

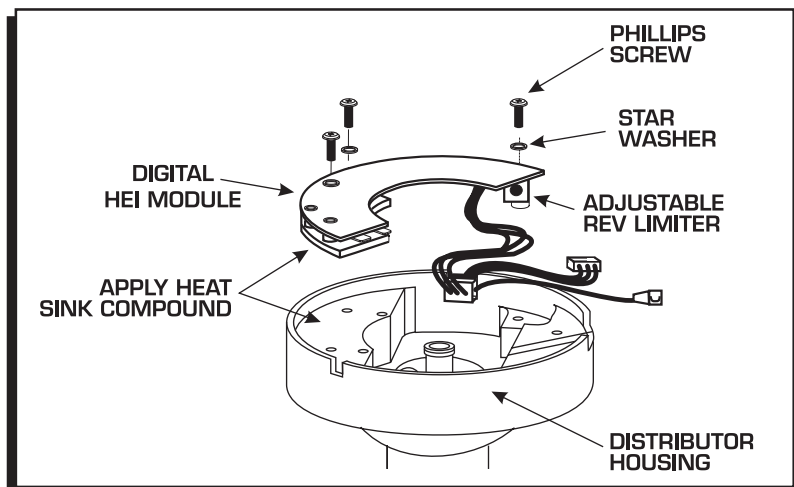


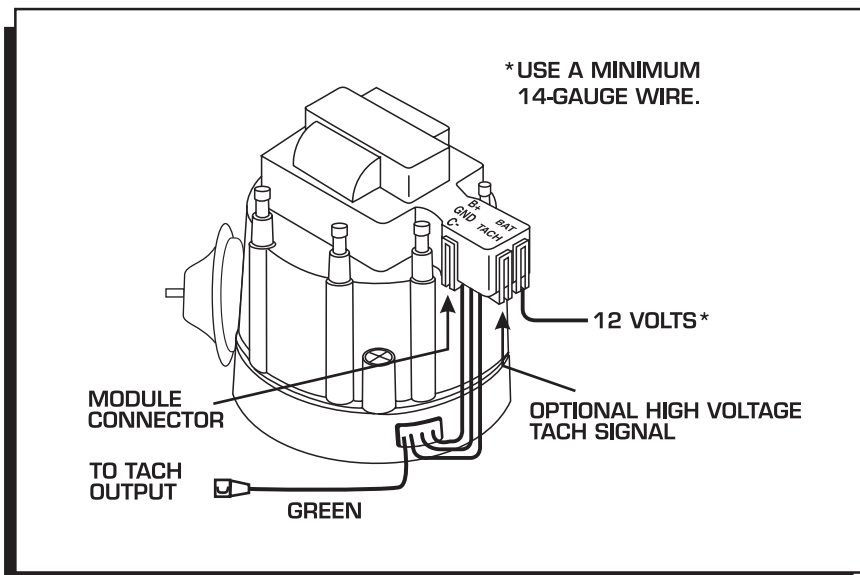
Figure 2 Installing the Module.

- Reinstall the rotor and cap.
- 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 it's 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 service, Proof of Purchase must be supplied for warranty verification. After the warranty period has expired, repair service is charged based on a minimum and maximum charge.

Send the unit prepaid with proof of purchase to the attention of: **Customer Service Department, Autotronic Controls Corporation, 12120 Esther Lama, Suite 114, El Paso, Texas 79936.**

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 after receipt, COD for any charges. (Ground shipping is covered by warranty). All units are returned regular UPS unless otherwise noted. For more information, call the MSD Customer Service Line (915) 855-7123. MSD technicians are available from 8:00 a.m. to 5:00 p.m. Monday - Friday (mountain time).

### Limited Warranty

Autotronic Controls Corporation warrants MSD Ignition products to be free from defects in material and workmanship under normal use and if properly installed for a period of one year from date of purchase. If found to be defective as mentioned above, it will be replaced or repaired if returned prepaid along with proof of date of purchase. This shall constitute the sole remedy of the purchaser and the sole liability of Autotronic Controls Corporation. To the extent permitted by law, the foregoing is exclusive and in lieu of all other warranties or representations whether expressed or implied, including any implied warranty of merchantability or fitness. In no event shall Autotronic Controls Corporation be liable for special or consequential damages.