

MSD[®] IGNITION INSTALLATION INSTRUCTIONS

MSD Digital HEI Kit PN 8501

Parts Included:

- | | |
|--|--------------------------------|
| 1 - Digital HEI Module, PN 83645 | 1 - Tube of Heat Sink Compound |
| 1 - HEI Coil, PN 8225 | 1 - Small Screw Driver |
| 1 - HEI Cap, 84111 | |
| 1 - HEI Rotor, 84101 | |
| 1 - HEI Coil Cover, PN 84021 | |
| 1 - Low Resistance Rotor Bushing and Insulator (assembled) | |

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 Digital 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.

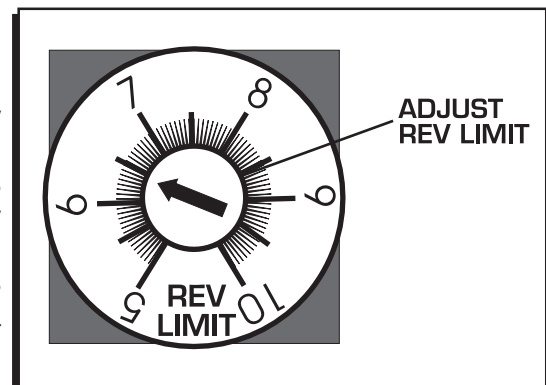


Figure 1 Adjusting the Rev Limiter.

INSTALLATION

1. Remove the cap, rotor and module of 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 and to the rubber insulator. Route the wiring harness out of the housing then locate the three screws and star washers and install the module (Figure 2).

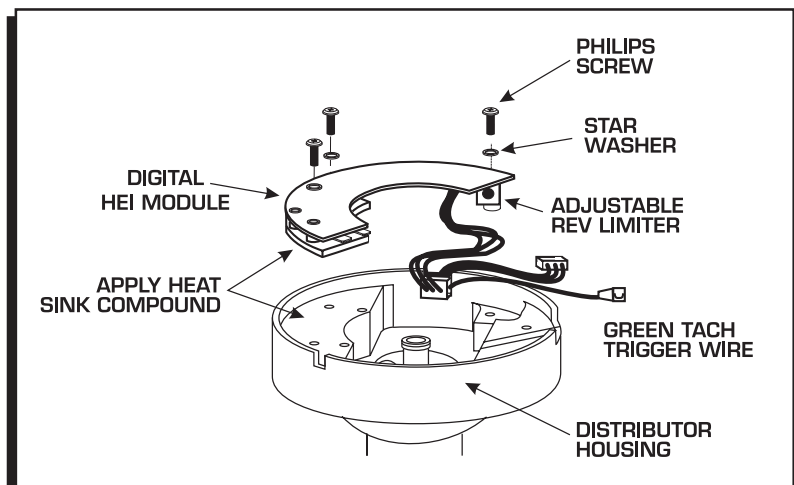


Figure 2 Installing the Module.

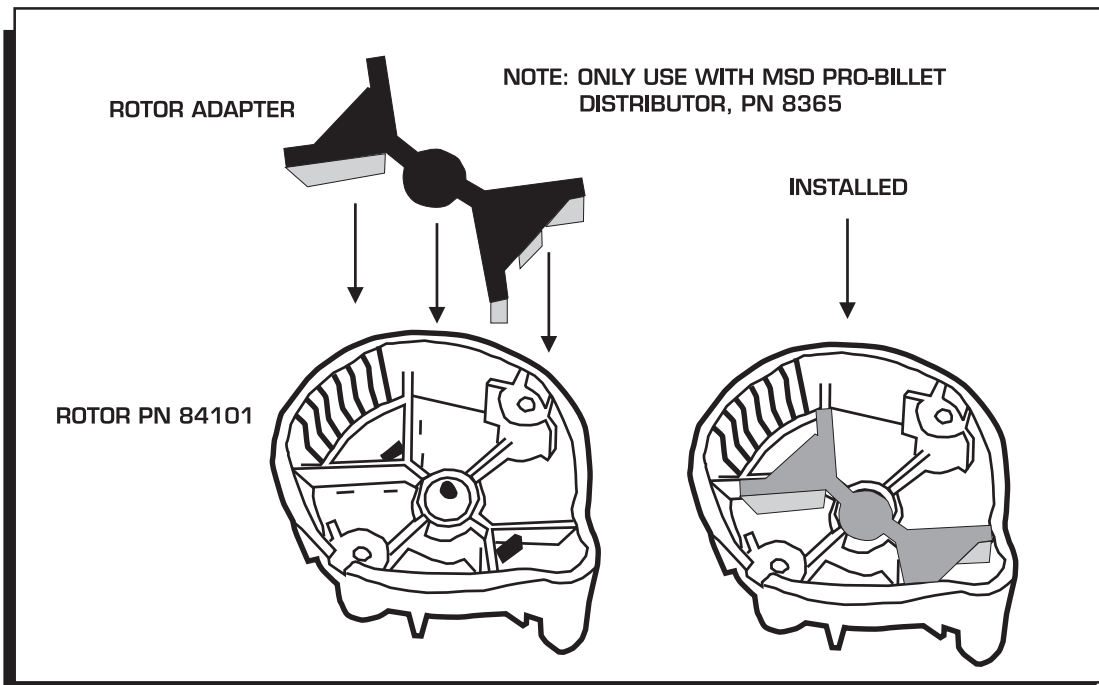


Figure 3 Installing the Rotor Adapter on an MSD PN 8365 HEI Distributor.

3. Install the rotor. If you are using an MSD HEI Pro-Billet Distributor, PN 8365, the supplied Rotor Adapter **must** be installed (Figure 3).
4. Install the cap and coil assembly. Figure 4 shows the exploded view of the assembly.
5. Install the spark plug wires to their respective cap terminals, then install the MSD Dust Cover and its three retaining screws.
6. Connect the HEI Module harness to the Distributor Cap. See the Tachometer Wiring section before connecting your tachometer (Figure 6).
7. Connect a 14-gauge (minimum gauge) wire to the Bat terminal of the cap to supply the 12 volts to the HEI system (Figure 6).

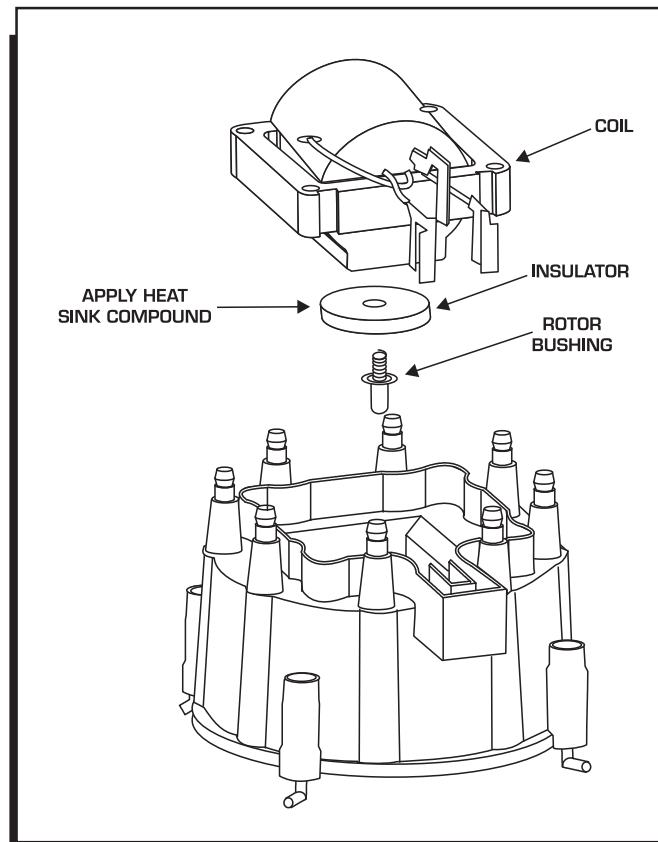


Figure 4 The Coil, Rotor Bushing and Insulator.

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-).

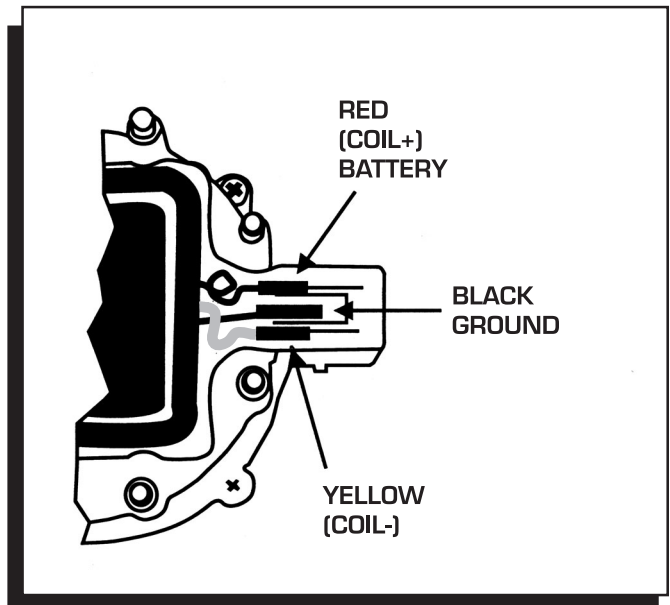


Figure 5 Installing the Coil's Wiring.

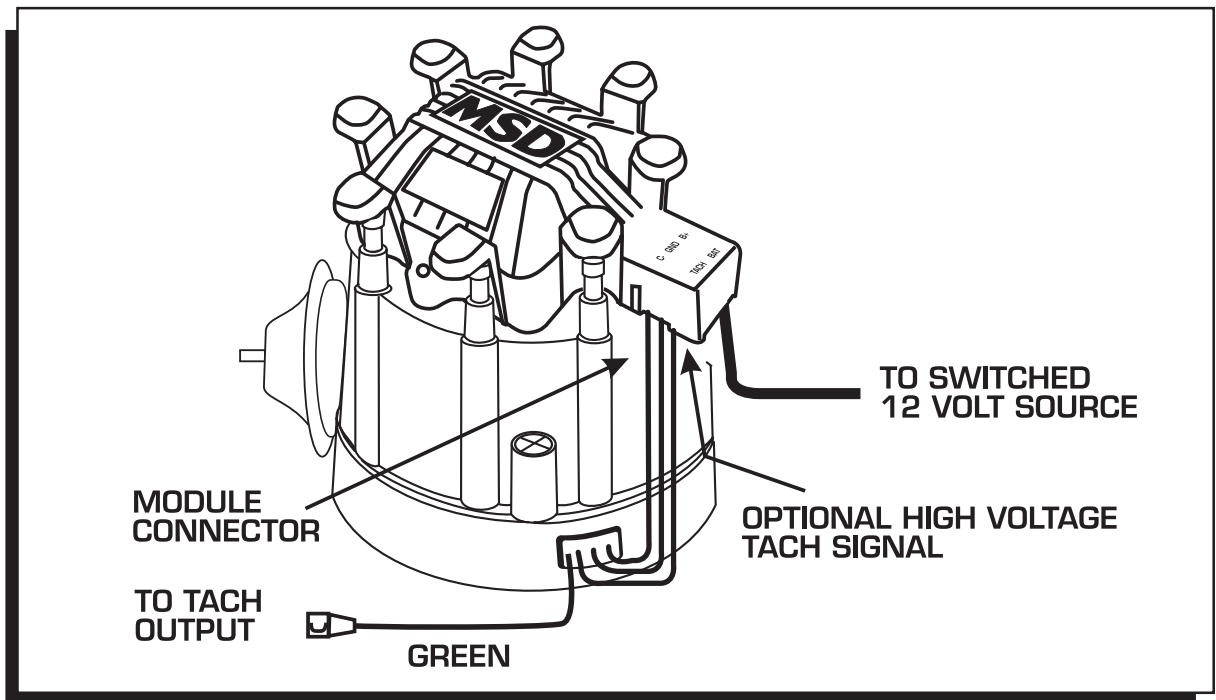


Figure 6 Connecting the Module and Tach Lead.

