

MSD[®] IGNITION **INSTALLATION INSTRUCTIONS**

MSD Universal Adjustable Timing Control PN 8782

Note: Read these instructions completely before attempting any installation.

Parts Included:

1 - Adjustable Timing Control, PN 8782	2 - Plastic Coil Spacers
1 - Cable Assembly, PN 54701	4 - 5/8" Self Tapping Screws
1 - Cable Assembly, PN 8860	4 - Faston Tabs, 45° Angle
1 - Control Knob and Cable	2 - Machine Screws and Nuts
1 - 3/8" Snap Bushing	6 - Lockwashers
1 - 2-pin Weathertight Connector	1 - Wiring Parts Bag

MOUNTING

Mount the Timing Control on a reasonably flat surface away from direct engine heat sources. Make sure the wires and harness can reach their connections. Using the unit as a template, mark the locations of the mounting holes. Remove the unit and use an 1/8" bit to drill the four holes. Use the four isolation mounts and self tapping screws to mount the unit.

MOUNTING THE CONTROL KNOB

The Control Knob should be mounted within easy reach of the driver. Also, make sure the wiring harness reaches the Timing Control. Clean the surface where the Knob will be mounted, peel the tape and press the Knob firmly onto the dash.

Find an area to pass the wiring harness through the vehicle cowl into the engine compartment. If no holes are available, drill a 3/8" hole and install the supplied snap bushing to seal the passenger compartment. After pushing the harness through to the engine compartment, install the 2-pin Weathertight connector onto the wires. It does not matter which wire goes into which socket.

OPERATION

The control knob should be turned to the 15° (full clockwise) position. It is a good idea to check the ignition timing to be sure that it is at the factory specification. If the ignition timing is retarded from the factory specification when the control knob is at the full 15° position, it should be reset to specs.

When driving, as detonation, or ping, occurs, turn the knob counterclock-wise just until the ping disappears. As conditions such as changing altitude, loads and fuel quality occur, use the control knob to match the timing as needed to remove the engine ping. When the control knob is at 15°, the ignition timing is at the factory specification where you will receive the best fuel economy.

CYLINDER PROGRAMMING

The 8782 Timing Control is programmed for 8-cylinder operation at the factory, but can be programmed for 4 or 6-cylinder operation. To program the unit, remove the single phillips screw holding a round cover on the side of the unit. Inside there is a RED, BLUE and a WHITE wire loop. Cut a section out of the wire loop for your application as shown in Figure 1.

6-Cylinder: Cut the RED loop.
 4-Cylinder: Cut the RED and BLUE loops.
 Do not cut the WHITE loop.

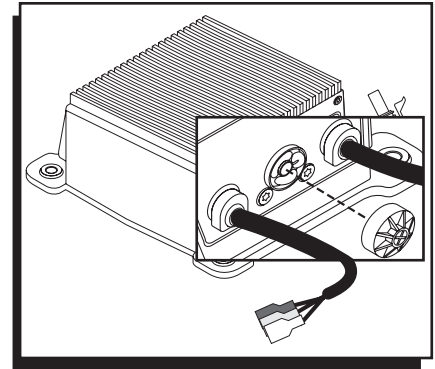


Figure 1 Cylinder Programming Wire Loops.

GM HEI, INTERNAL COIL DISTRIBUTORS

There are three style large cap HEI distributors. To identify which wiring diagram fits your application, remove the distributor cap and rotor and locate the ignition module at the base of the housing. Count the number of terminals on both ends of the module. GM used a 4, 5 and 7-pin module in these distributors.

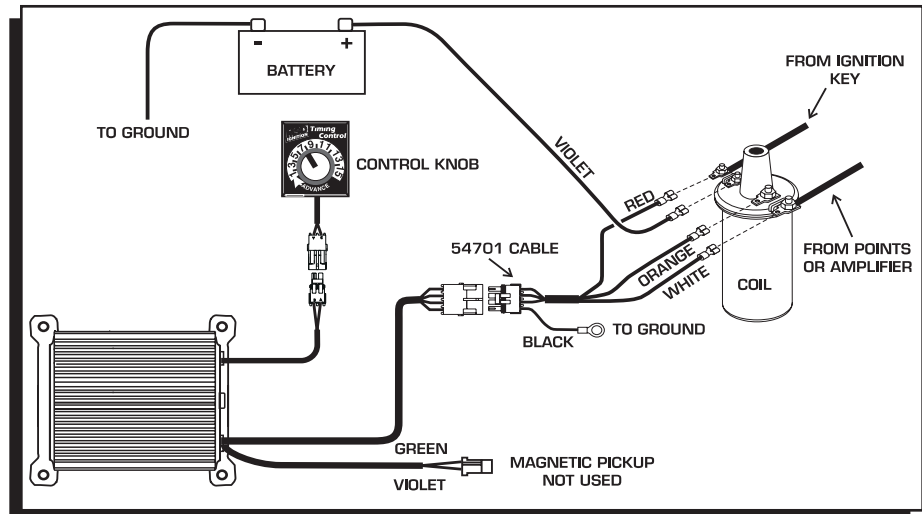


Figure 2 Wiring with a Breaker Point or Electronic Ignition.

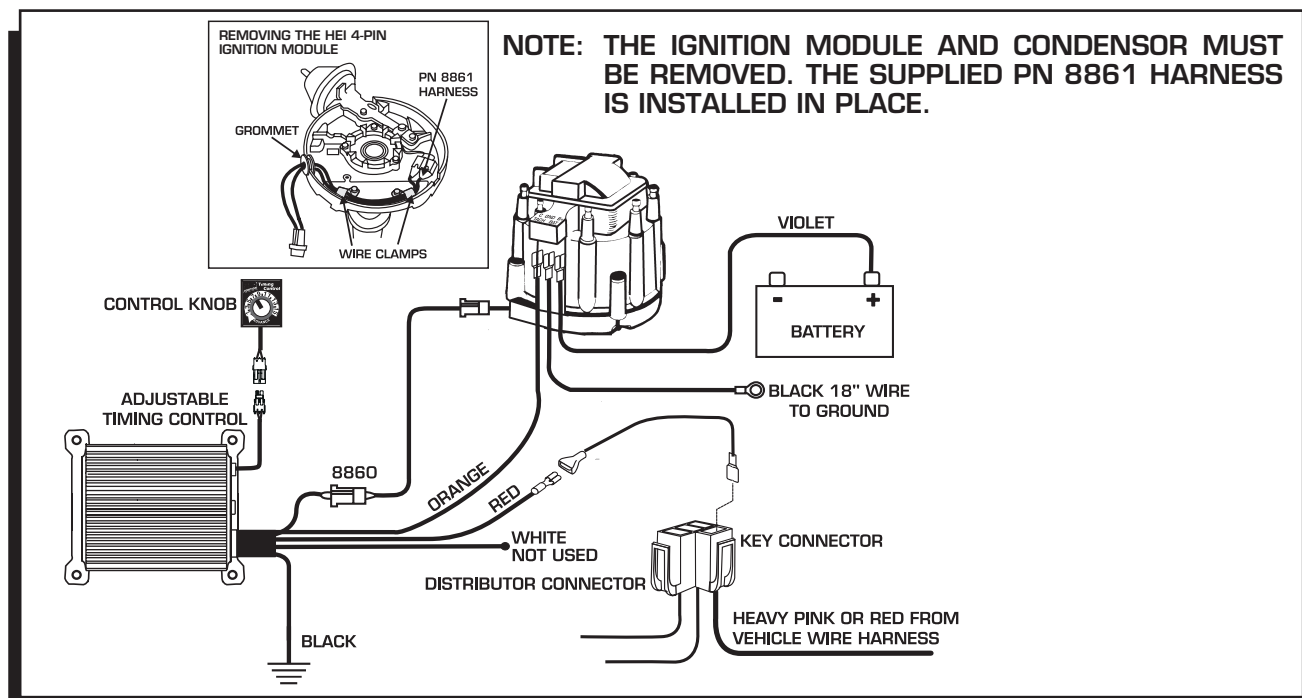


Figure 3 Wiring a GM HEI 4-Pin Module Distributor.

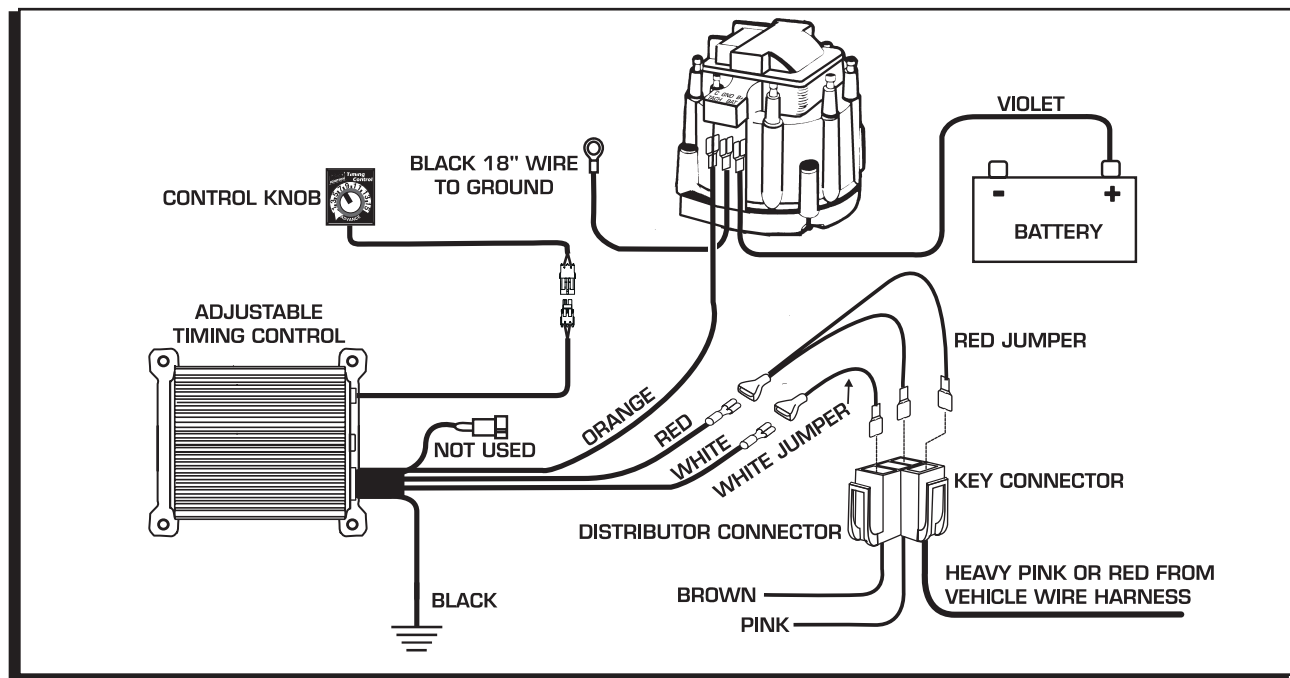


Figure 4 Wiring a GM HEI 5 or 7-Pin Module Distributor.

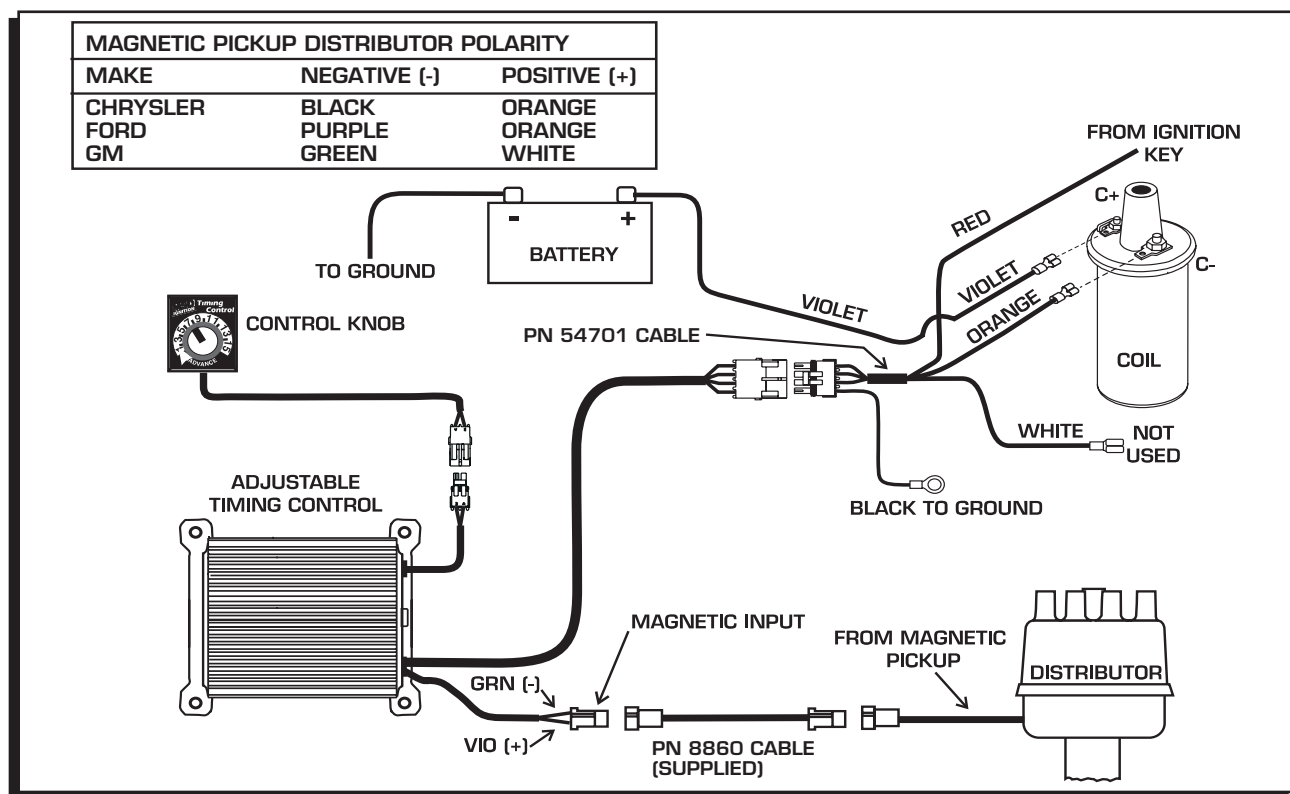


Figure 5 Wiring with a Magnetic Pickup.

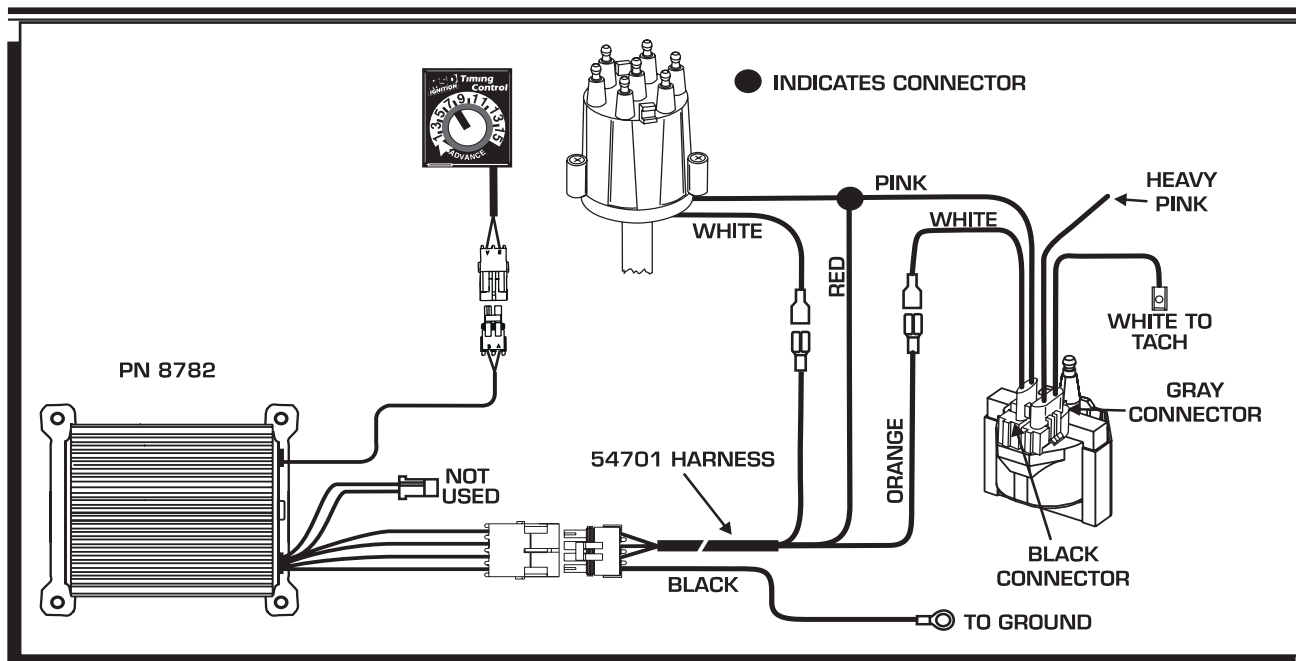


Figure 6 Wiring the GM HEI External Coil.

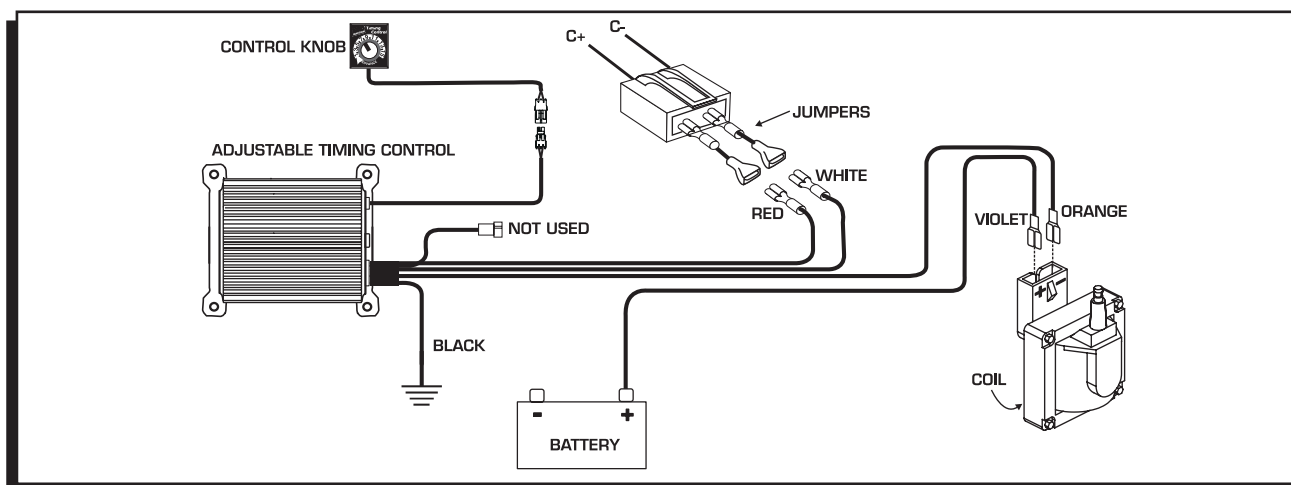


Figure 7 Wiring the Ford TFI Ignition.

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.