

MSD[®] IGNITION INSTALLATION INSTRUCTIONS

MSD Universal Boost Timing Master PN 5462

IMPORTANT: Read the instructions before attempting installation.

Parts Included:

1 – Boost Timing Master, PN 5462	4 – Self Tapping Screws
1 – Control Knob	6 – Insulating Caps
1 – 2-Pin Connector	1 – Wiring Kit

WARNING: During installation, disconnect the battery cables. When disconnecting the battery always remove the Negative cable first and install it last.

Note: An 1/8" vacuum line is required to complete the installation.

OPERATION

The Boost Timing Master provides a variable timing retard, that you control, in relation to the amount of boost occurring. You can also set when the retard begins. The amount of retard is adjusted with a dash mounted control knob and ranges from 0° - 3° per pound of boost. The chart in Figure 1 shows the relation of boost and retard.

As an example, if you have the control knob set at 2° and run a maximum of 6-pounds of boost, the total retard at max boost will be 12° ($2 \times 6 = 12$).

Dash Control Knob: This controls the **slope of the retard**. That is, how much timing is removed per pound of boost. The settings are 0° – 3° of retard per pound of boost with a maximum of 15° of retard.

Start Point: This is where you adjust the **beginning** of the boost retard curve. You can adjust the start point of the slope from 0 – 5 pounds of boost. A typical setting is 2 psi for most users. Figure 1 illustrates this adjustment.

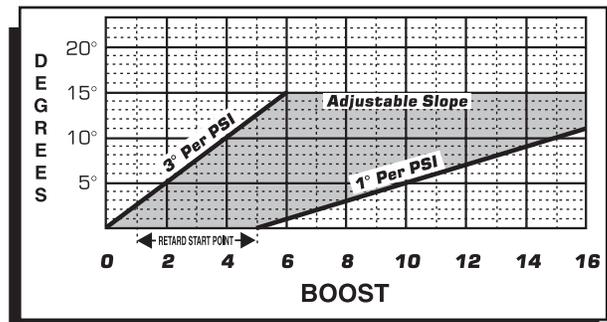


Figure 1 Boost and Retard rates.

MOUNTING

The Boost Timing Master can be mounted under the hood, but should be away from direct engine heat sources. Make sure that the wires reach their connections. Use the Control as a template to mark the mounting holes. Remove the unit and drill the holes with an 1/8" drill bit. Use the supplied screws to mount the unit.

CONTROL KNOB

Find a suitable location on the dashboard that can easily be reached by the driver. Drill a 3/8" hole in the firewall, install the supplied grommet and route the harness wires through. Make sure the harness reaches the connector on the BTM before mounting the control knob.

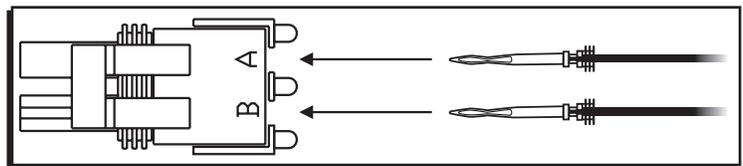


Figure 2 Connecting the Control Knob Harness.

Install the supplied 2-pin Weathertight connector on the harness and connect it to the BTM. The wires are not polarity sensitive so it doesn't matter which wire goes in the harness (Figure 2).

BOOST LINE

Connect one end of an 1/8" vacuum line (not supplied) to the brass spigot on the BTM. Connect the other end of the hose to a ported source such as the intake manifold or below the throttle blades of the carburetor or throttle body. If you already have a boost gauge you can tee into that line.

WIRING

Black/Gray These are the wires for the dash mounted control knob. They are not polarity sensitive so you do not need to match the wire colors.

Red	Connects to switched 12 volts, or coil positive (+). If a ballast resistor is used, it must be bypassed.
Orange	Connects to coil negative (-).
Black	Connects to Ground.
Trigger Wires	
White	This is a trigger wire and connects to the points or electronic ignition trigger wire.
Magnetic Pickup 2-Pin Connector	This is a 2-Pin Connector with a Green and Violet wire routed together. If the distributor has a magnetic pickup, this connects to it. Green is negative, Violet is positive.

Note: The White wire and the 2-Pin Magnetic Pickup wires will never be used at the same time.

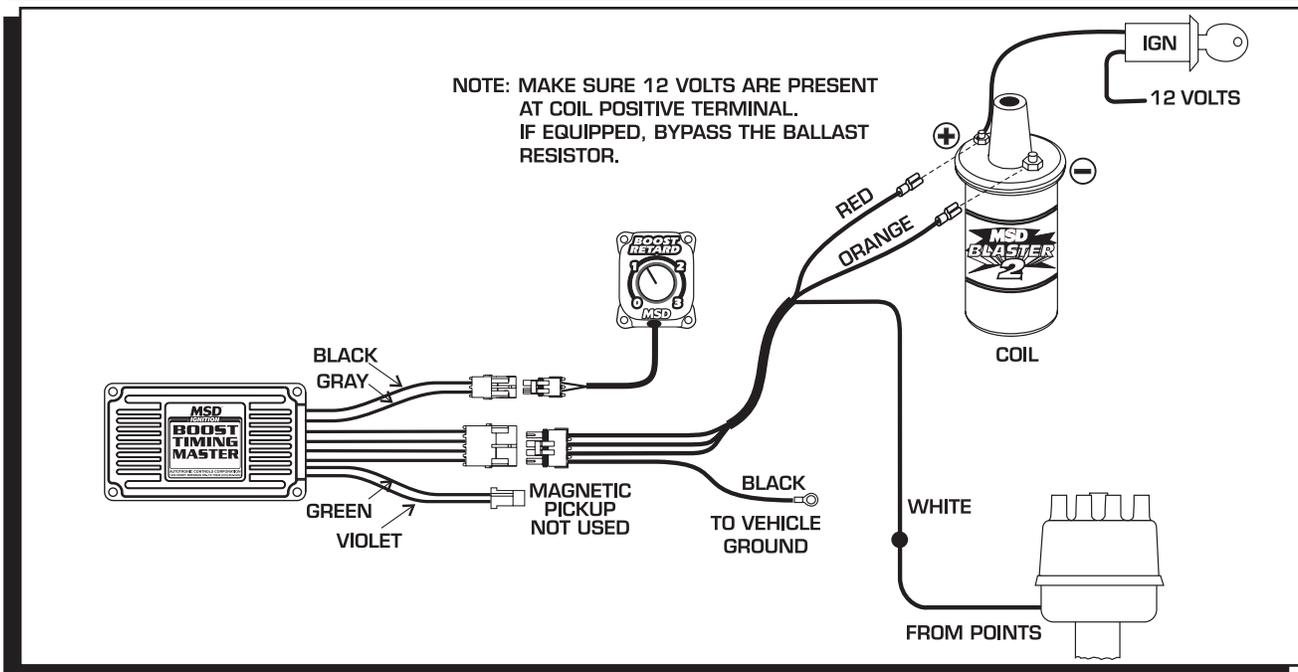


Figure 3 Wiring to a Breaker Points Ignition.

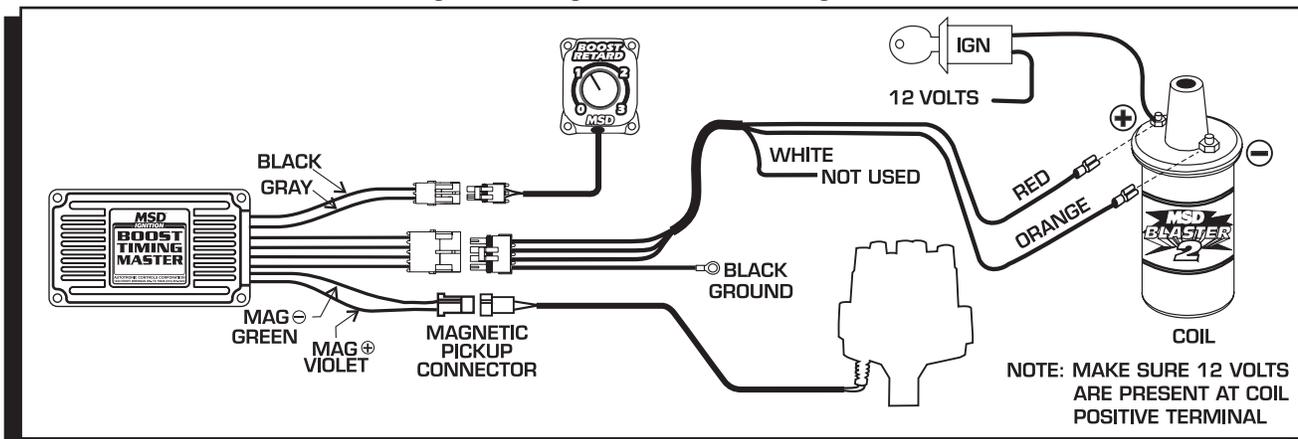


Figure 4 Wiring to a Magnetic Pickup.

NOTE: SOME 5-PIN MODELS MAY EXPERIENCE A HESITATION OR STALL ON DECELERATION. IF THIS OCCURS, CONTACT MSD TECH LINE FOR THE REQUIRED BOLT-IN DIODE TO CORRECT THE PROBLEM. MSD TECH LINE (915) 855-7123.

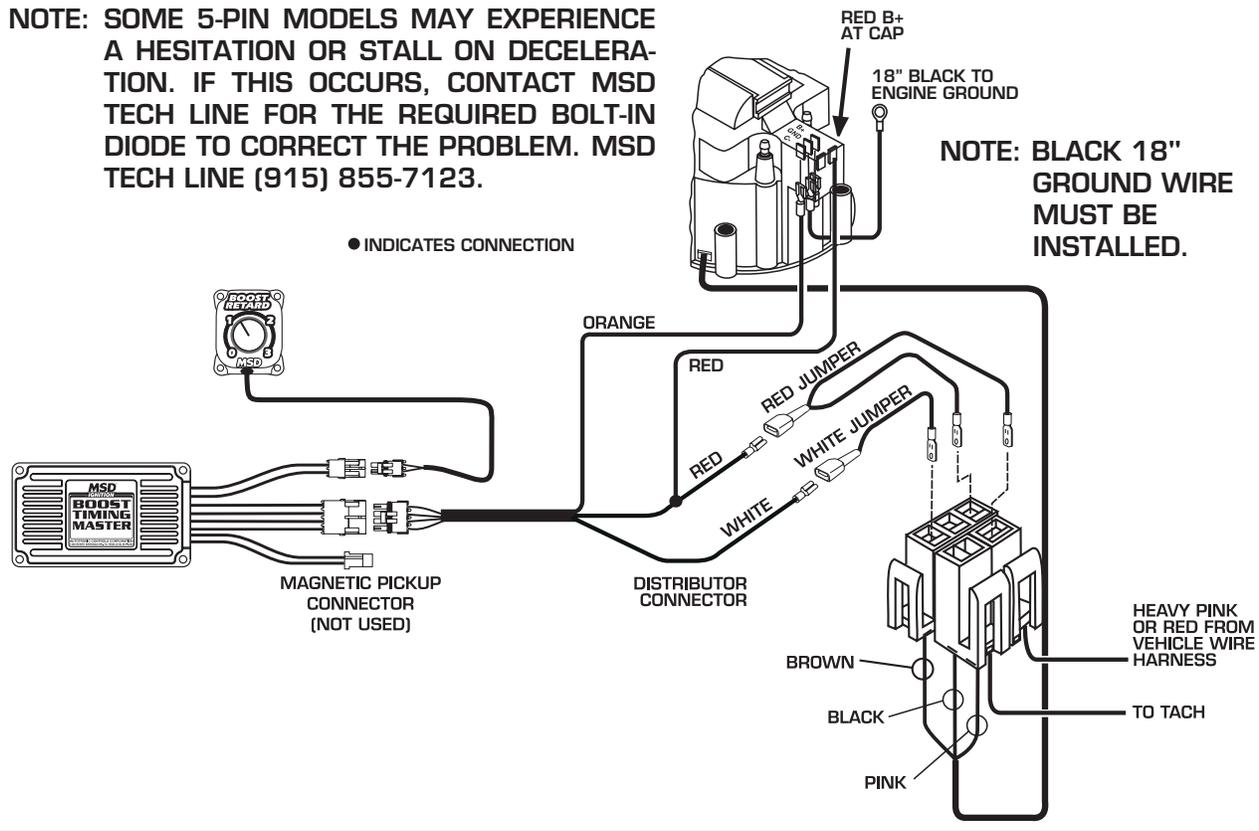


Figure 8 Wiring to GM HEI Distributor with an internal coil.

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 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.