

MSD[™] IGNITION INSTALLATION INSTRUCTIONS

MSD Boost Timing Master PN 8762

IMPORTANT: Read the instructions before attempting installation.

Parts Included:

1 – Boost Timing Master, PN 8762	4 – Self Tapping Screws
1 – Control Knob	1 – 2-Pin Connector
1 – Parts Bag	

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

Note: The PN 8762 must be used with an MSD Ignition Control.

INTRODUCTION

In order to get the most out of your Boost Timing Master, driving tests and fine-tuning are required. You will want to achieve having the highest advance timing for peak horsepower at low rpm when boost pressure is low, and retard the timing during boost just enough to prevent knocking or predetonation.

Note: In setting up the timing curve, a hand held Mighty-Vac or similar tool will allow you to simulate the boost pressure, while you adjust timing at idle.

PROGRAMMING

Cylinder Select: The Boost Timing Master is programmed at the factory for 8-cylinder engines. It can easily be modified for use on 4 and 6-cylinder engines. The number of cylinders is adjusted by cutting the cylinder select loops. Figure 1 shows the Cylinder Programming Loops and how to modify the Unit.

Magnetic Trigger: If you are using a distributor with a magnetic pickup, such as an MSD, to trigger the ignition system the White Wire Loop needs to be cut (Figure 1). If you are using the points or amplifier input of the MSD Ignition Control, this Loop does not need to be cut.

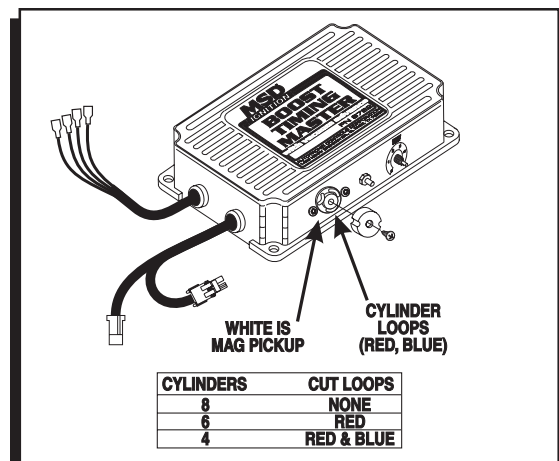


Figure 1 Selecting the Cylinders or Trigger Pickup

MOUNTING

The Boost Timing Master can be mounted under the hood, but should be away from direct engine heat sources. Make sure that the wiring 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 7/16" hole in the firewall, install the supplied snap bushing and route the harness wires through. Make sure the harness reaches the connector on the BTM before mounting the control knob. Install the supplied 2-pin Weather-tight connector (Figure 2) on the harness and connect it to the Grey/Black wire on the BTM. The order of the wires inside the connector is not important.

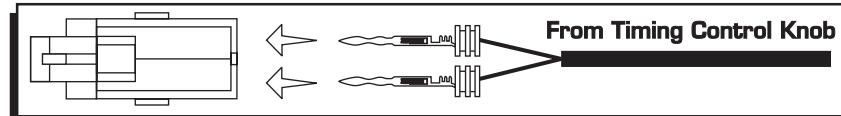


Figure 2 Connecting the Control Knob Harness.

Boost Line

Connect one end of an 1/8" ID vacuum line 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

WIRE	CONNECTION
Red:	Connects to switched 12 volts.
Black:	Connects to Ground.
Yellow:	Connects to the MSD Ignition's White Wire.
White:	Connects to points or amplifier trigger wire on the engine.
Green/Violet 2-Pin Connector:	Connects to the magnetic pickup of the distributor or crank trigger. Green is negative, Violet is positive. Note: When using this connector, the white wire loop must be cut.

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

ADJUSTING THE BOOST

The PN 8762 allows you to set the amount of ignition retard as well as when the retard begins, both in relation to the amount of boost being produced (Figure 3).

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.

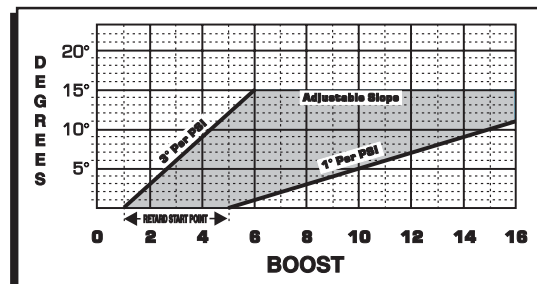


Figure 3 Setting the Timing Adjustments.

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 3 illustrates this adjustment.

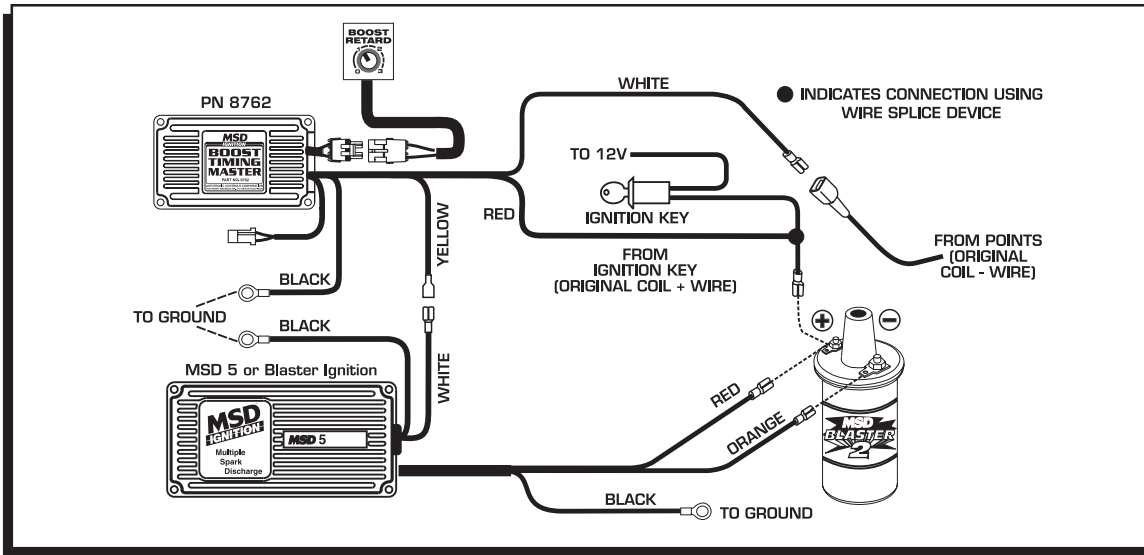


Figure 4 Wiring for MSD-5 / Blaster Ignition.

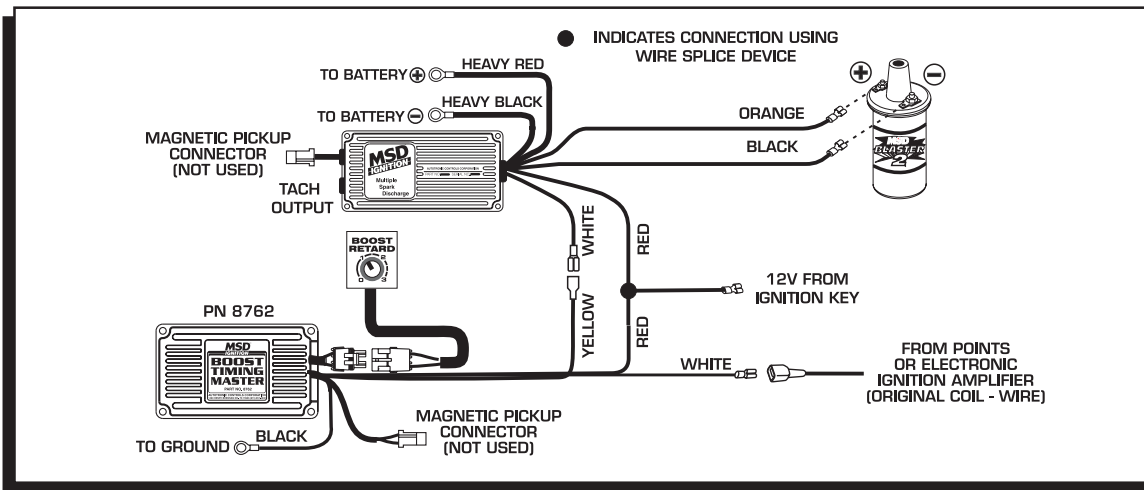


Figure 5 Wiring for MSD-6 Series Using Points Amplifier Triggering.

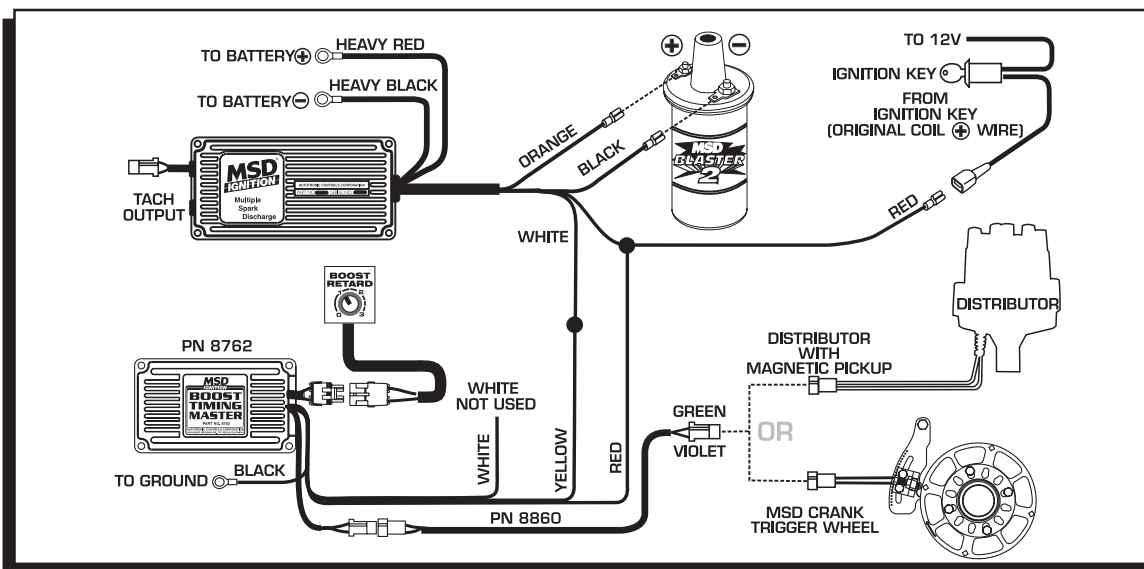


Figure 6 Wiring for MSD 6 Series Using Magnetic Pickup.

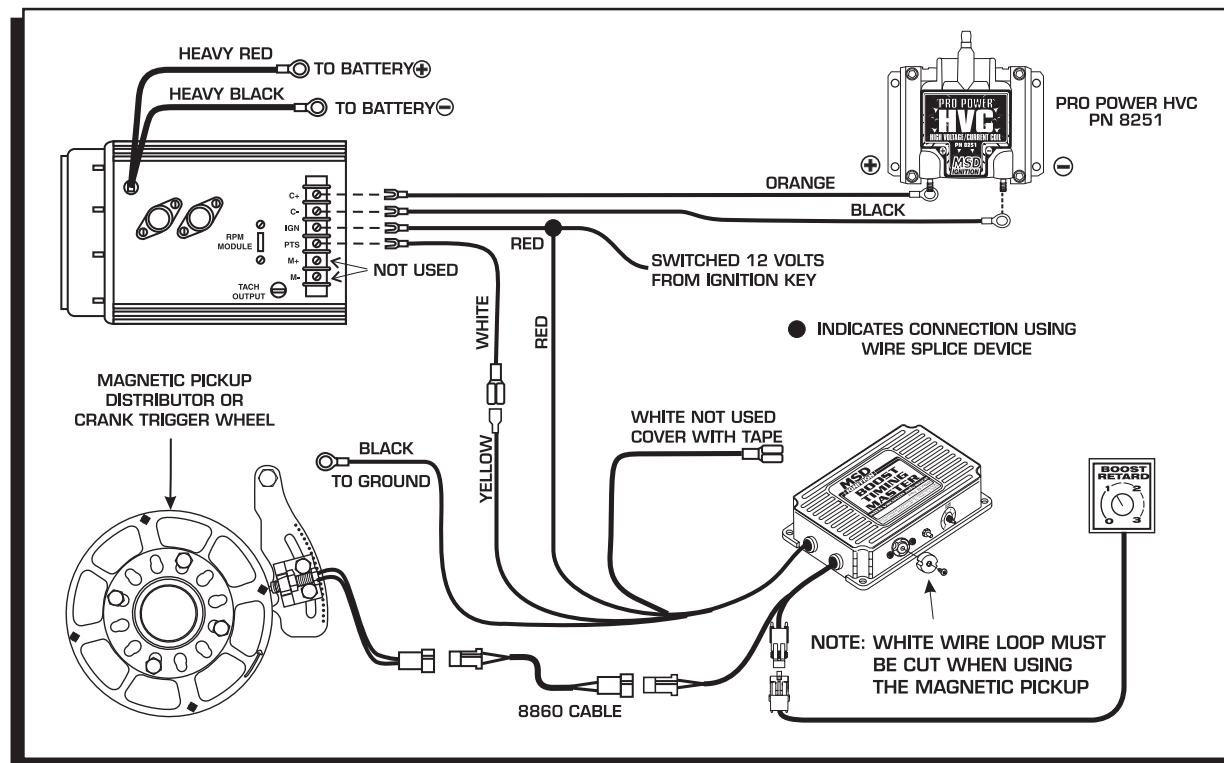


Figure 7 Wiring for MSD 7 Series Using Magnetic Pickup Triggering.

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). 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.