

# **INSTALLATION INSTRUCTIONS**

## **MSD 6AL-2 Ignition Control PN 6421/64213**

**ONLINE PRODUCT REGISTRATION:** Register your MSD product online. Registering your product will help if there is ever a warranty issue with your product and helps the MSD R&D team create new products that you ask for! Go to [www.msdpower.com/registration](http://www.msdpower.com/registration).

### **Parts Included:**

1 - MSD Ignition	1 - Screwdriver	4 - Vibration Mounts
1 - Harness, PN 8860	1 - Parts Bag, ASY 28928	

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

**Note:** Solid Core spark plug wires cannot be used with an MSD Ignition.

**Note:** Do not use digital or dial back timing lights.

## **OPERATION AND FEATURES**

### **DIGITAL OPERATION**

The MSD 6AL-2 uses a high speed RISC microcontroller to control the ignition's output while constantly analyzing the various inputs such as supply voltage, trigger signals and rpm. The high speed controller can make extremely quick compensations to the output voltage, multiple spark series, timing and rpm limits while maintaining accurate timing signals to within 1° and 1% of the rpm limits. The circuits and controller of the 6AL-2 have been thoroughly filtered to create protection against Electro Magnetic Interference (EMI).

### **CAPACITIVE DISCHARGE**

The MSD 6AL-2 features a capacitive discharge ignition design. The majority of stock ignition systems are inductive ignitions. In an inductive ignition, the coil must store and step up the voltage to maximum strength in between each firing. At higher rpm, since there is less time to charge the coil to full capacity, the voltage falls short of reaching maximum energy which results in a loss of power or top end miss.

The MSD Ignition features a capacitor which is quickly charged with 520 - 535 volts and stores it until the ignition is triggered. With the CD design, the voltage sent to the coil is always at full power even at high rpm.

### **MULTIPLE SPARKS**

The MSD produces full power multiple sparks for each firing of a plug. The number of multiple sparks that occur decreases as rpm increases, however the spark series always lasts for 20° of crankshaft rotation. Above 3,000 rpm there is simply not enough "time" to fire the spark plug more than once, so there is only one powerful spark.

### **PROTECTION**

The MSD 6AL-2 has a built in reverse polarity protection circuit. This will protect the ignition in the event of wrong connections. It will also shut off for protection from a surge in power. The ignition will still operate once the surge or polarity is corrected.

### **LED INDICATOR**

There is an LED that monitors the status of the Ignition. The LED monitors the trigger signals and will flash to warn if the supply voltage drops below 9 volts while under 3,000 rpm.

## REV LIMITER

This Ignition features a built-in Soft Touch Rev Control with two different rpm limits. The Soft Touch circuitry provides a smooth and accurate rev limit by dropping the spark to individual cylinders. The Soft Touch produces a load-free rev limit that is within 1% of the selected rpm.

You can select two rev limits; one for a low limit that can be used when staging the car, and another limit for top end overrev protection. Both rpm limits are adjusted in 100 rpm increments with the sealed rotary switches on the side of the ignition. Using and programming the Two Step is explained in detail on page 5.

## CYLINDER SELECT

The MSD is programmed at the factory for use on 8-cylinder engines. If you are installing it to a different engine you will have to program the Ignition. This is easily achieved through the cylinder select switch on the side of the ignition. Page 5 outlines setting the cylinder select.

## GENERAL INFORMATION

### BATTERY

An MSD 6AL-2 Ignition Control will operate on any negative ground, 12 volt electrical system with a distributor. The MSD can be used with 16 volt batteries and can withstand a momentary 24 volts in case of jump starts. The Ignition will deliver full voltage with a supply of 9 - 18 volts and will operate with a supply voltage as low as seven volts.

If your application does not use an alternator, allow at least 15 amp/hour for every half hour of operation. The MSD uses about .9 Amps for every 1,000 rpm. If the engine is cranked with the same battery or other accessories such as an electric fuel or water pump are used, the amp/hour rating should be higher.

### COILS

The MSD 6AL-2 Ignition can be used with most stock coils and aftermarket coils designed to replace the stock coils. The line of MSD Blaster Coils, PN 8202, PN 8207 and PN 8222, are great for street and mild racing. For extended high rpm operation the Blaster HVC, PN 8252 or HVC II, PN 8253, are recommended. For more information on recommended coils, check with our Customer Service Department at (915) 855-7123.

### TACHOMETERS

The MSD Ignition features a Gray Tach Output wire that provides a trigger signal for tachometers, a shift light or other add-on rpm activated devices. The Tach Output wire produces a 12 volt square wave signal with a 25° duty cycle.

Some vehicles with factory tachometers may require a Tach Adapter to operate with the MSD. For more information on Tachometers and MSD Tach Adapters, see the Tachometer Section on page 7. If your GM vehicle has an in-line filter it may cause the tach to drop to zero on acceleration. If this occurs, bypass the filter.

### SPARK PLUGS AND WIRES

Spark plug wires are very important to the operation of your ignition system. A good quality, helically wound wire and proper routing are required to get the best performance from your ignition, such as the MSD or Street Fire 8.5mm Super Conductor Wire. Helically wound wires provide a good path for the spark to follow while keeping Electro Magnetic Interference (EMI) to a minimum. Excessive EMI, such as the amount that solid core wires produce, will interfere with the operation of the MSD. **Solid Core spark plug wires cannot be used with an MSD Ignition.**

**Routing:** Correct routing of the plug wires is also important to performance. Wires should be routed away from sharp edges and engine heat sources. If there are two wires that are next to each other in the engine's firing order, the wires should be routed away from each other to avoid inducing a spark into the other wire. For example, in a Chevy V8, the firing order is 1-8-4-3-6-5-7-2. The #5 and #7 cylinders are next to each other in the engine and in the firing order. If the voltage from the #5 wire is induced into #7 detonation could occur and cause engine damage.

To add more heat protection to your plug wires, MSD offers Pro-Heat Guard, PN 3411. This is a glass woven and silicone coated protective sleeve that you slide over your plug wires. For extra protection of the spark plug boots, MSD offers Pro Boot Guard, PN 3412.

**Spark Plugs:** Choosing the correct spark plug design and heat range is important when trying to get the best performance possible. Since there are so many engine combinations and manufacturers, MSD does not recommend which plug or gap is exactly right for your application.

It is recommended to follow the engine builder or manufacturer's specification for spark plugs. With that, you can then experiment with the plug gap to obtain the best performance. The gap of the plugs can be opened in 0.005" increments, then tested until the best performance is obtained. MSD judges the plug gap by compression and components.

These examples are just starting points to get you going in the right direction. Every application is different and should be tested and tuned.

Compression	Spark Plug Gap
Up to 10.5:1:	0.035" - 0.045"
10.5:1 - 13.0:1:	0.030" - 0.035"
Above 13.0:1:	0.025" - 0.030"

**Note:** Close the spark plug gap down as compression increases.

**Welding:** If you are welding on your vehicle, to avoid the chance of damage, always disconnect **both** Heavy Power cables of the MSD (You should also disconnect the tach ground wire too).

**Distributor Cap and Rotor:** It is recommended to install a new distributor cap and rotor when installing the MSD Ignition Control. The cap should be clean inside and out especially the terminals and rotor tip. On vehicles with smaller caps, it is possible for the air inside the cap to become electrically charged causing crossfire which can result in misfire. This can be prevented by drilling a couple vent holes in the cap. The holes should be placed between the terminals, at rotor height and face away from the intake. If your environment demands it, place a small piece of screen over the hole to act as a filter.

**MOUNTING**

The MSD can be mounted in the engine compartment as long as it is away from direct engine heat sources. It is not recommended to mount the unit in an enclosed area such as the glove box.

When you find a suitable location to mount the unit, make sure the wires of the ignition reach their connections. Also be sure that the program dials can be accessed. Hold the Ignition in place and mark the location of the mounting holes. Use a 3/16" bit to drill holes, install the vibration mounts and mount the ignition.

**WIRING**

<b>Power Leads</b>	These are the two heavy 14 gauge wires and are responsible for getting direct battery voltage to the ignition. The Ignition is load protected from reverse battery connections and will automatically shut down if there is over 28 volts input.
<b>Heavy Red</b>	This wire connects directly to the battery positive (+) terminal or a positive battery junction such as the starter solenoid. <b>Note:</b> Do not connect to the alternator.
<b>Heavy Black</b>	This wire connects to a good ground, either at the battery negative (-) terminal or to the engine.
<b>Red</b>	This wire is responsible for turning the MSD On and Off. Connects to a switched 12 volt source such as the ignition key or switch.
<b>Orange</b>	This wire connects to the coil positive (+) terminal. This is the <b>ONLY</b> wire that makes electrical contact with the positive coil terminal.
<b>Black</b>	This wire connects to the coil negative (-) terminal. This is the <b>ONLY</b> wire that makes electrical contact with the negative coil terminal.
<b>Trigger Wires</b>	There are three circuits that can be used to trigger the MSD Ignition; a Points circuit (the White wire), a Magnetic Pickup circuit (the Green and Violet wires), and a Hall-effect wire (White/Blue). Only one circuit will be used at a time.
<b>White</b>	This wire is used to connect to breaker points, electronic ignition amplifier output or to the Yellow wire of an MSD Timing Accessory. <b>When this wire is used, the White/Blue wire and Magnetic Pickup connector are not used.</b>
<b>White/Blue</b>	Hall-effect Trigger. This wire connects to the trigger wire of a Hall-effect pickup. <b>When used, the White and Magnetic Pickup wires are not used.</b>
<b>Violet and Green (Magnetic Pickup Connector)</b>	These wires are routed together in one harness as the magnetic pickup connector. The connector plugs directly into an MSD distributor or crank trigger. It will also connect to aftermarket pickups. The Violet wire is positive (+) and the Green wire is negative (-). <b>When these wires are used, the White or White/Blue wires are not.</b>
<b>Accessories</b>	
<b>Blue</b>	This wire activates the Two Step Rev Control. When 12 volts is applied to this wire, the low rpm limit is activated. When 12 volts is removed, the rev limit returns to the high limit.
<b>Gray</b>	Tach output wire. Connects to the tachometer trigger wire or other rpm activated device.

**GENERAL WIRING INFORMATION**

**Wire Length:** All of the wires of the MSD Ignition may be shortened as long as quality connectors are used or soldered in place. To lengthen the wires, use one size bigger gauge wire (12 gauge for the power leads and 16 gauge for the other wires) with the proper connections. All connections must be soldered and sealed.

**Grounds:** A poor ground connection can cause many frustrating problems. When a wire is specified to go to ground, it should be connected to the battery negative terminal, engine block or chassis. There should always be a ground strap between the engine and the chassis. Always securely connect the ground wire to a clean, paint free metal surface.

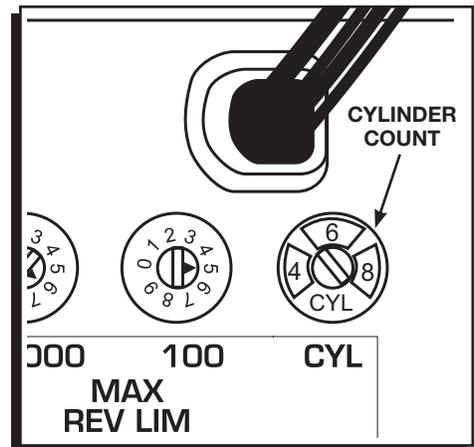
**Ballast Resistor:** If your vehicle has a ballast resistor in-line with the coil wiring, it is recommended to bypass it.

**Routing Wires:** The MSD wires should be routed away from direct heat sources such as exhaust manifolds and headers and any sharp edges. The trigger wires should be routed separate from the other wires and spark plug wires. It is best if they are routed along a ground plane such as the block or firewall which creates an electrical shield. The magnetic pickup wires should always be routed separately and should be twisted together to help reduce extraneous interference.

**PROGRAMMING**

**CYLINDER SELECT**

The MSD is programmed for operation on 8-cylinder engines. If installing the Ignition on a different style engine, the number of cylinders will need to be selected on the Cylinder Select Rotary Switch (Figure 1).

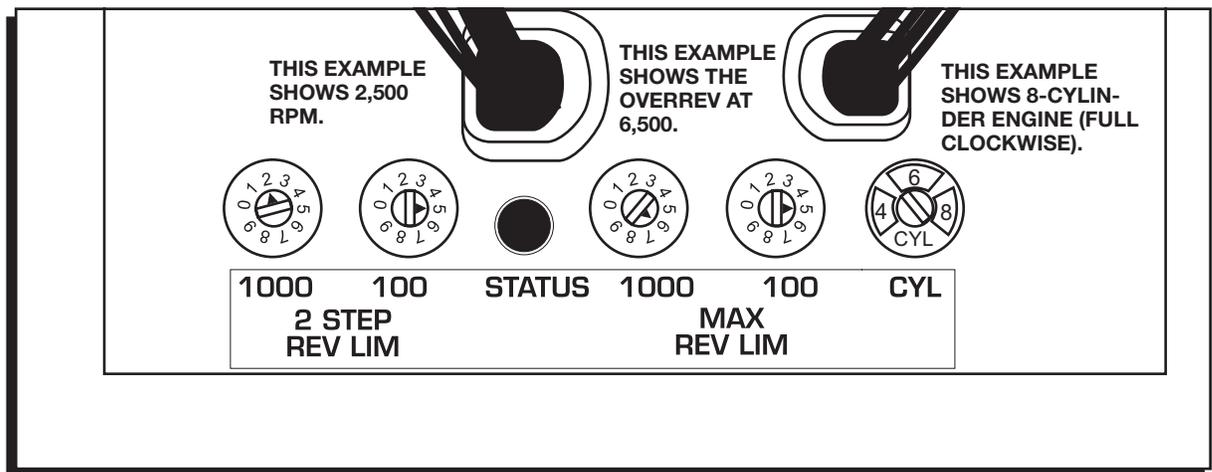


**Figure 1 Programming the Number of Cylinders.**

**REV LIMITER**

There are two adjustable rev limits that you can adjust; the Max Limit and the Two Step Limit. Both limits are adjusted in 100 rpm increments by turning the rotary switches on the side of the Ignition (Figure 2). **Note:** The engine can be running as you make adjustments to the rev limiter function.

**Max Limit:** This is the overrev rpm limit. The Soft Touch circuitry will begin dropping the spark to cylinders any time the rpm reaches the amount you select, except if the Two Step Limit is activated (12 volts applied to the Blue wire). The limit can be adjusted from 2,000 to 11,900 rpm. Setting both dials to Zero defaults to a limit of 10,000 rpm. Setting the 1,000's dial to 1 defaults to 11,000 rpm rev limit.



**Figure 2 Rev Limiter sample setting.**

**2-Step Limit:** This rpm limit is activated when 12 volts are applied to the Blue wire. When activated, this limit overrides the Max Limit. This limit is adjustable from 1,000 to 9,900 and will default to 1,000 rpm if the dials are set to an rpm below this range. An example of wiring the 2-Step Limit so it is activated with the line-lock is shown in Figure 3.

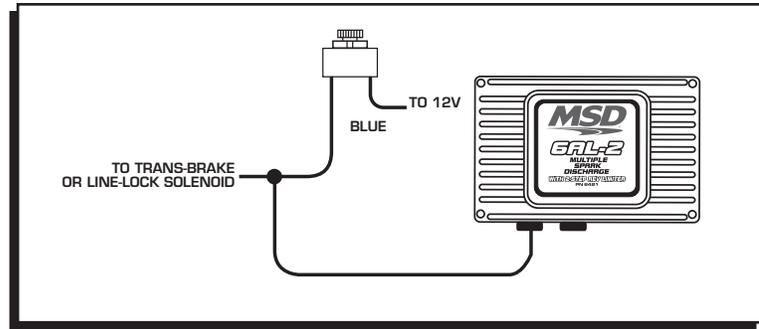


Figure 3 Wiring the 2-Step Rev Limit.

### PRESTART CHECK LIST

- The only wires connected to the coil terminals are the MSD Orange to coil positive and Black to coil negative.
- The small Red wire of the MSD is connected to a switched 12 volt source.
- Confirm the cylinder select is in the proper position for your application.
- The MSD power leads are connected directly to the battery positive and negative terminals.
- The battery is connected and fully charged if not using an alternator.
- The engine is equipped with at least one ground strap to the chassis.

### TROUBLESHOOTING

#### LED

The LED on the side of the MSD monitors several operating conditions of the MSD. If the LED indicates that there is a problem with the ignition system, follow the steps through the Troubleshooting section. The LED will appear to be on steady above idle speeds when everything is functioning properly.

- Flashes once per second if the battery supply voltage is low when under 3,000 rpm (while multiple sparking). This indicates a charging problem or poor connection.
- It will flash approximately once per second if the battery input voltage is above 28 volts for a sustained amount of time.
- The LED will flash for every trigger signal from the distributor or crank trigger. You can take advantage of this when statically setting the timing when using the White or White/Blue wire to trigger.

#### TACH/FUEL ADAPTERS

If your tachometer does not operate correctly or if you experience a no-run situation with your foreign vehicle you probably need an MSD Tach Adapter. The chart in Figure 4 lists common tachometers and if an Adapter is necessary.

Tachometer Compatibility List		
AFTERMARKET TACHOMETER	WHITE WIRE TRIGGER	MAGNETIC TRIGGER CONNECTOR
AUTOGAGE	8910	8920
AUTOMETER	NONE	NONE
FORD MOTORSPORTS	NONE	NONE
MALLORY	NONE	NONE
MOROSO	NONE	NONE
STEWART (voltage triggered)	8910	8920
S.W. & BI TORX	NONE	NONE
SUN	8910	8920
VDO	NONE	NONE
AMC (JEEP)	8910	8920
CHRYSLER	8910	8920
FORD (voltage triggered)	8910	8920
GENERAL MOTORS	Bypass In-Line Filter	Bypass In-line filter
IMPORTS	8910	8920

Note: On the list above, the trigger wire on tachometers that are marked NONE may be connected to the Gray Tach Output Wire on the MSD 6AL-2 Ignition.

Figure 4 Common Tachometers and Adapters.

**NO-RUN ON FOREIGN VEHICLES**

Some foreign vehicles with fuel injection systems may require an MSD Tach/Fuel Injection Adapter to run with an MSD 6 Series Ignition. This is because many of these systems use the same trigger source to operate the MSD, the tachometer and the fuel injection. This results in a voltage signal that is too low to accurately trigger the fuel injection. To fix this, an MSD Tach Adapter, PN 8910, will remedy the problem on the majority of vehicles. If the PN 8910 does not fix the problem, the PN 8910-EIS will be required.

**Note:** Toyotas and Ford Probes will require the PN 8910-EIS Adapter.

**INOPERATIVE TACHOMETERS**

If your tachometer fails to operate with the MSD installed you may need an MSD Tach Adapter. Before getting an Adapter, try connecting your tachometer trigger wire to the Gray tach wire of the MSD. This output produces a 12 volt, square wave (see page 2). If the tach still does not operate, you will need a Tach Adapter. There are two Tach Adapters:

**PN 8920:** If you are using the Magnetic Pickup connector (Green and Violet wires) to trigger the MSD, you will need the PN 8920.

**PN 8910:** If your tachometer was triggered from the coil negative terminal (voltage trigger) and you are using the White wire to trigger the MSD you will need the PN 8910.

**BALLAST RESISTOR**

If you have a current trigger tach (originally coil positive) and use the White wire of the MSD, you can purchase a Chrysler Dual Ballast Resistor (used from 1973 - 1976) and wire it as shown in Figure 5.

**ENGINE RUN-ON**

If your engine continues to run even when the ignition is turned Off you are experiencing engine Run-On. This usually only occurs on older vehicles with an external voltage regulator. Because the MSD receives power directly

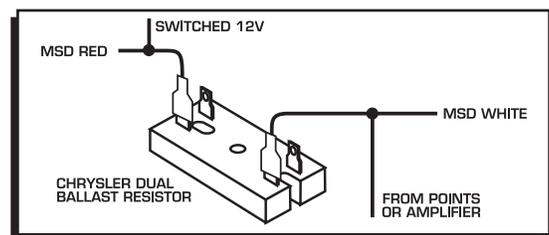


Figure 5 Wiring the Dual Ballast Resistor.

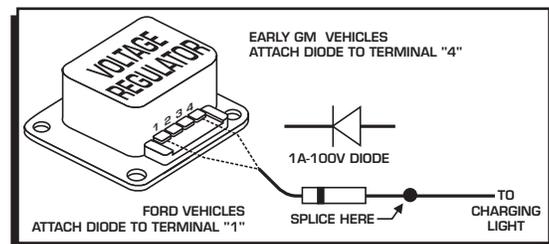


Figure 6 Installing the diode to a GM or Ford Vehicle.

from the battery, it does not require much current to keep the unit energized. If you are experiencing run-on, it is due to a small amount of voltage going through the charging lamp indicator and feeding the small Red wire even if the key is turned off.

**Early Ford and GM:** To solve the Run-On problem, a Diode is supplied with the MSD in the parts bag. By installing this Diode in-line of the wire that goes to the Charging indicator, the voltage is kept from entering the MSD. Figure 6 shows the proper installation for early Ford and GM vehicles.

**Note:** Diodes are used to allow voltage to flow only one way. Make sure the Diode is installed facing the proper direction (as shown in Figure 6).

**Ford:** Install the Diode in-line to the wire going to the "1" terminal.

**GM:** Install the Diode in-line to the wire going to terminal #4.

**GM:** 1973 - 1983 with Delcotron Alternators.

**GM:** Delcotron Alternators use an internal voltage regulator. Install the Diode in-line on the smallest wire exiting the alternator (Figure 7). It is usually a Brown wire.

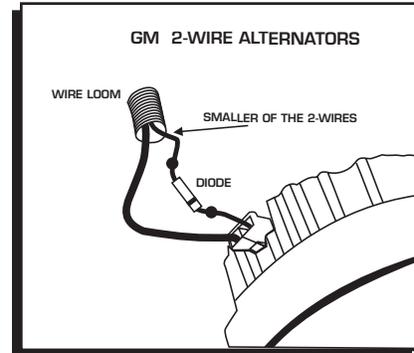


Figure 7 Installing the Diode to a 1973-1983 GM Vehicle.

**Most other applications:** On other applications where engine Run-On is experienced, a Resistor can be put in-line to the MSD's small Red wire (Figure 8). This resistor will keep voltage from leaking through to the MSD unit.

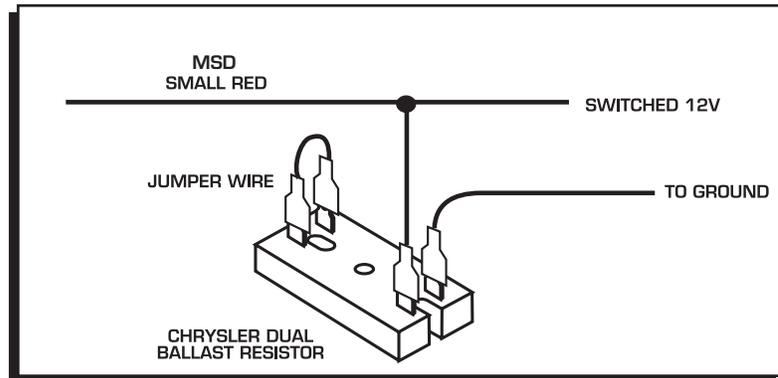


Figure 8 Wiring the Dual Ballast Resistor for Run-On.

## MISSES AND INTERMITTENT PROBLEMS

Experience at the races has shown that if your engine is experiencing a miss or hesitation at higher rpm, it is usually not directly ignition. Most probable causes include faulty wiring, a coil or plug wire failure, arcing from the cap or boot plug to ground or spark ionization inside the cap. Several items to inspect are:

- Always inspect the plug wires at the cap and at the plug for a tight connection and visually inspect for cuts, abrasions or burns.
- Inspect the Primary Coil Wire connections. Because the MSD is a Capacitive Discharge ignition and it receives a direct 12 volt source from the battery, there will not be any voltage at the Coil Positive (+) terminal even with the key turned On. During cranking or while the engine is running, very high voltage will be present and no test equipment should be connected.

**WARNING:** Do not touch the coil terminals during cranking or while the engine is running.

- Make sure that the battery is fully charged and the connections are clean and tight. If you are not running an alternator this is an imperative check. If the battery voltage falls below 9 volts during a race, the MSD output voltage will drop and the current draw will increase.
- Is the engine running lean? Inspect the spark plugs and complete fuel system.
- Inspect all wiring connections for corrosion or damage. Remember to always use proper connections followed by soldering and seal the connections completely.

If everything checks positive, use the following procedure to test the ignition for spark. MSD also offers an Ignition Tester, PN 8998 or PN 8996. This tool allows you to check your complete ignition system while it is in the car as well as the operation of rpm limits, activated switches and shift lights.

**CHECKING FOR SPARK**

If triggering the ignition with the White or White/Blue wire:

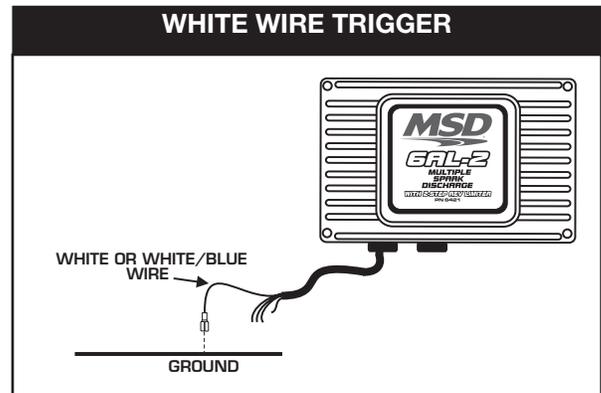
1. Make sure the ignition switch is in the "Off" position.
2. Remove the coil wire from the distributor cap and set the terminal approximately 1/2" from ground.
3. Disconnect the MSD trigger wire (White or White/Blue) from the distributor.
4. Turn the ignition to the On position. Do not crank the engine.
5. Tap the White wire to ground several times. Each time you pull the wire from ground, a spark should jump from the coil wire to ground. If spark is present, the ignition is working properly. If there is no spark skip to step 6.

**If triggering with the Magnetic Pickup:**

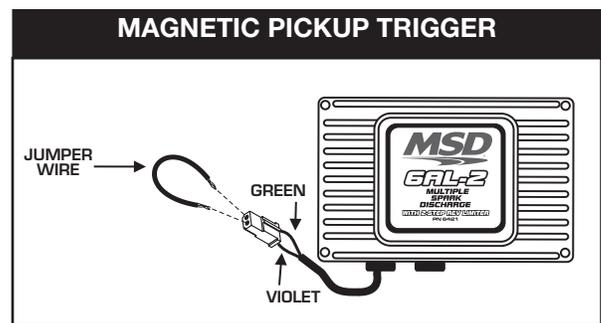
1. Make sure the ignition switch is in the "Off" position.
2. Remove the coil wire from the distributor cap and set the terminal approximately 1/2" from ground.
3. Disconnect the MSD magnetic pickup wires from the distributor.
4. Turn the ignition to the On position. Do not crank the engine.
5. With a small jumper wire, short the MSD's Green and Violet magnetic pickup wires together several times. Each time you break this short, a spark should jump from the coil wire to ground. If spark is present, the ignition is working properly. If there is no spark skip to step 6.

6. If there is no spark:
  - A. Inspect all of the wiring.
  - B. Substitute another coil and repeat the test. If there is now spark, the coil is at fault.
  - C. If there is still no spark, check to make sure there are 12 volts on the small Red wire from the MSD when the key is in the On position. If 12 volts are not present, find another switched 12 volt source and repeat the test.
  - D. If, after following the test procedures and inspecting all of the wiring, there is still no spark, the MSD Ignition is in need of repair. See the Warranty and Service section for information.

The following wiring diagrams illustrate numerous installations on different vehicles and applications. If you experience difficulties when installing your MSD, contact our Customer Support Department at (915) 855-7123 (7 - 5 Mountain time) or e-mail us at: [msdtech@msdignition.com](mailto:msdtech@msdignition.com)

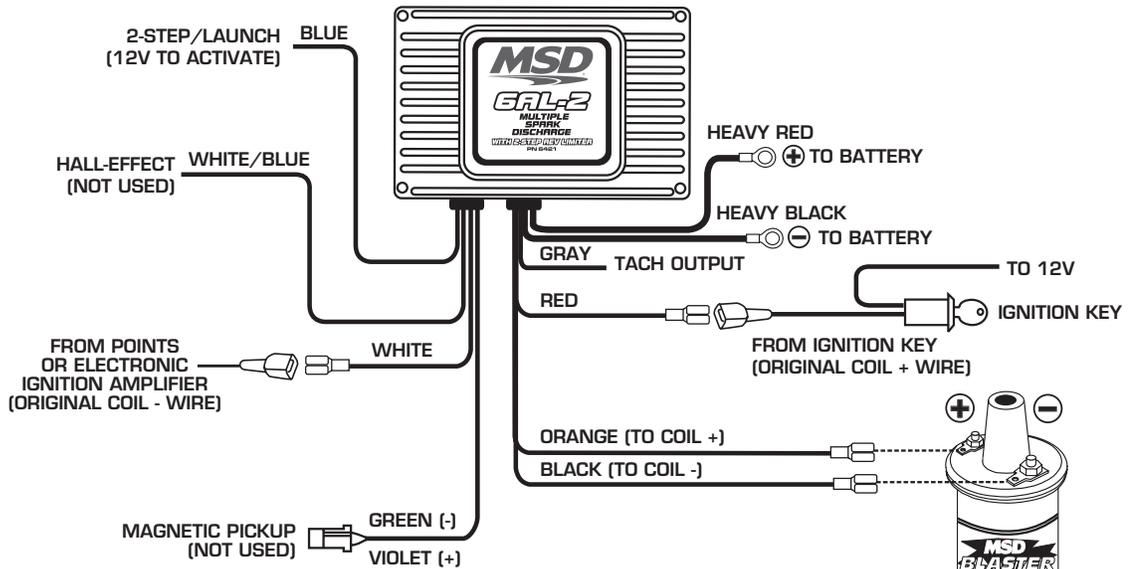


**Figure 9 Checking for Spark with the White Wire.**



**Figure 10 Checking for Spark with the Mag Pickup.**

**MSD SYSTEMS** Installing to Points/Amplifier Style Ignition.

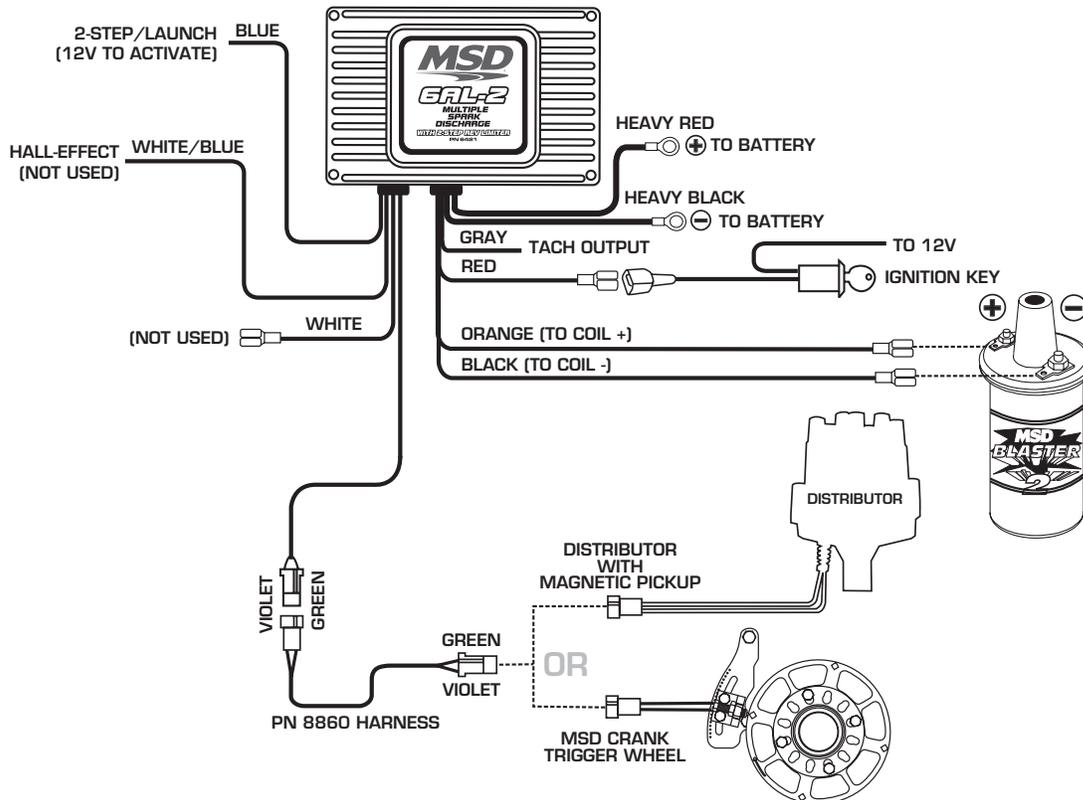


**NOTE:** On dual point setups, it is recommended to remove the trailing set of points.

**NOTE:** Ballast Resistor is not necessary.

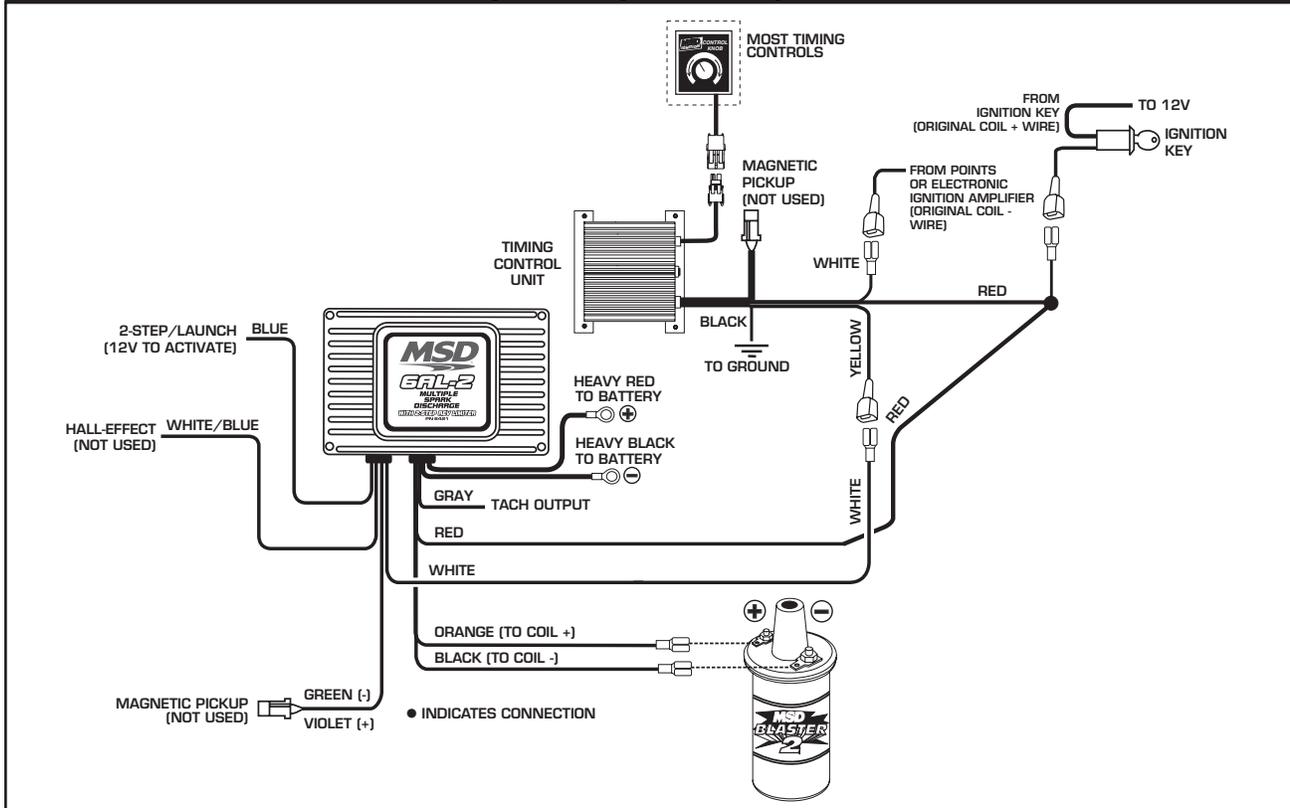
**NOTE:** Remove the coil terminal wires. The negative wire connects to MSD White. The positive wire connects to MSD Red. The MSD Orange connects to the coil positive terminal, Black connects to the coil negative terminal.

**MSD SYSTEMS** Installing to an MSD Distributor/Crank Trigger.

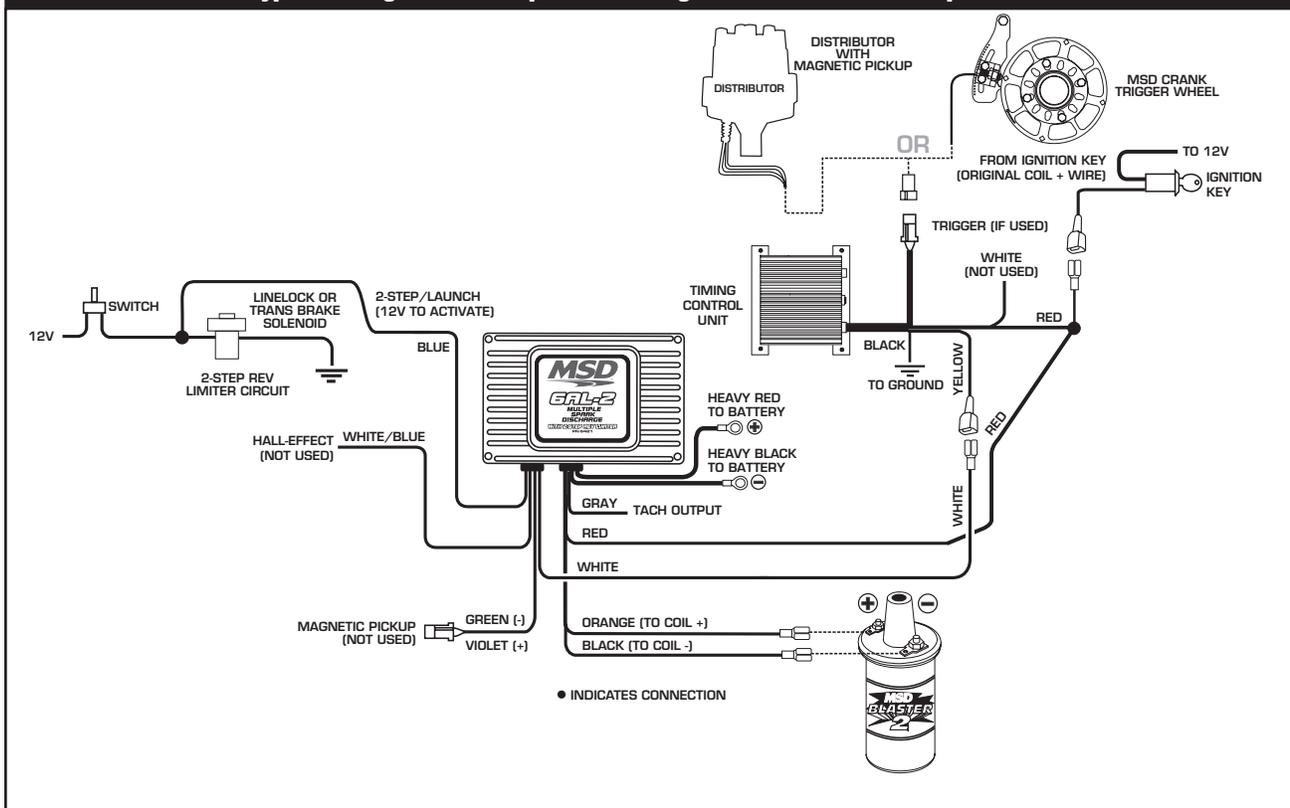




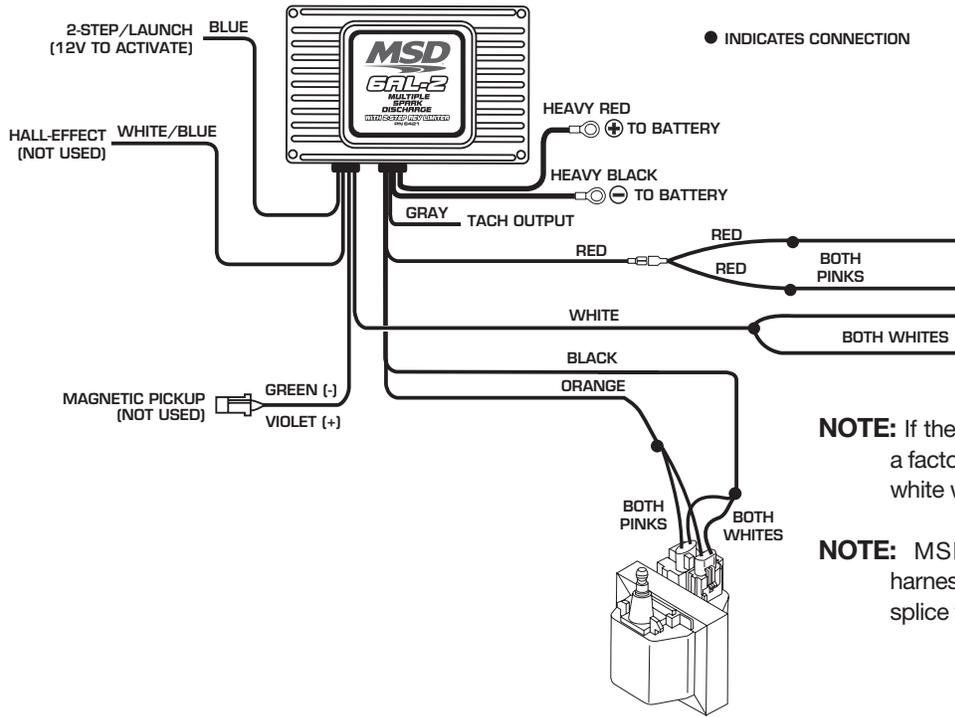
**MSD SYSTEMS With an MSD Timing Control (points or amplifier).**



**MSD SYSTEMS Typical Drag Race Setup with Timing Control and Two Step Selector.**



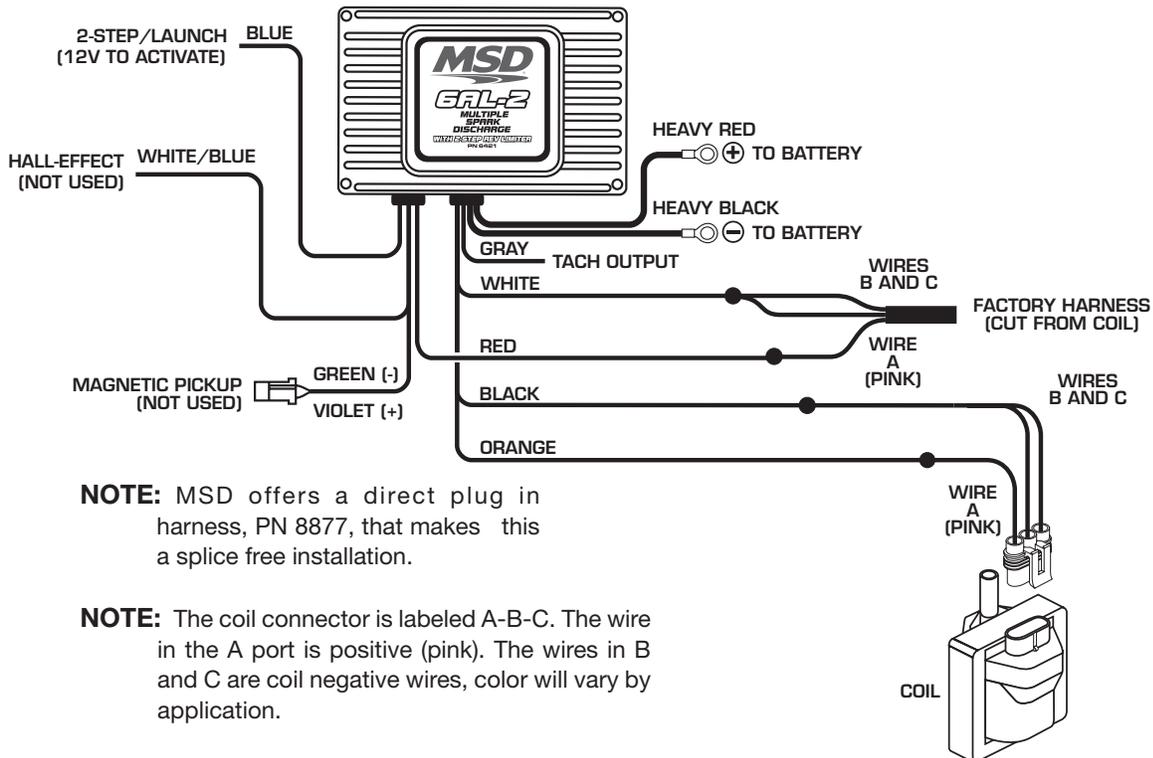
**GM IGNITIONS** Wiring a Dual Connector Coil.



**NOTE:** If the vehicle is not equipped with a factory tach, there will only be one white wire going to the coil.

**NOTE:** MSD offers a direct plug in harness, PN 8876, that makes this a splice free installation.

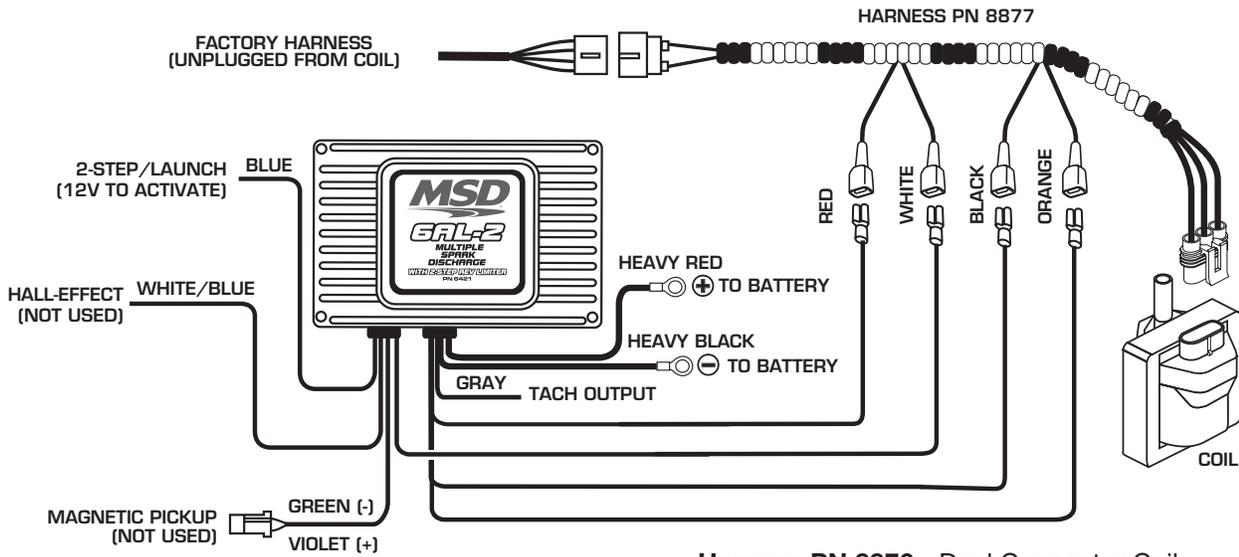
**GM IGNITIONS** Wiring the 1996 and up single connector coil without harness.



**NOTE:** MSD offers a direct plug in harness, PN 8877, that makes this a splice free installation.

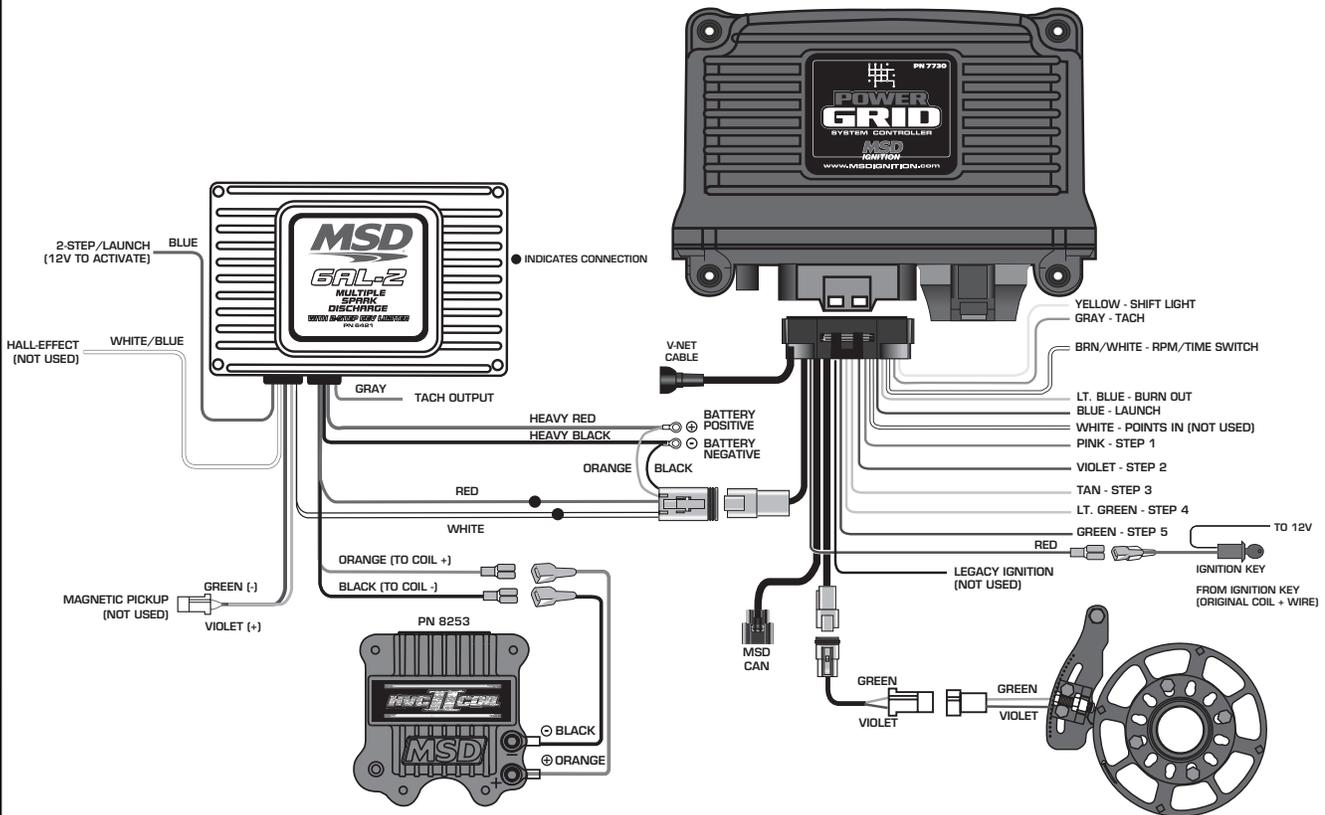
**NOTE:** The coil connector is labeled A-B-C. The wire in the A port is positive (pink). The wires in B and C are coil negative wires, color will vary by application.

**GM IGNITIONS Wiring with an MSD Wiring Harness.**

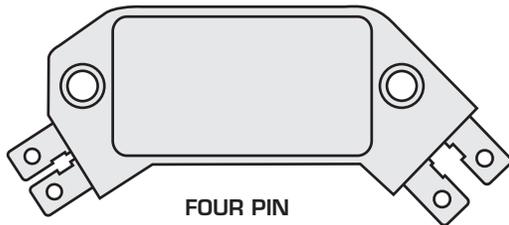


Harness PN 8876 - Dual Connector Coil.  
 Harness PN 8877 - 1996-on GM Vehicles.

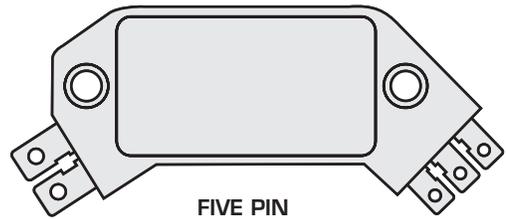
**MSD SYSTEMS Wiring with an MSD Power Grid**



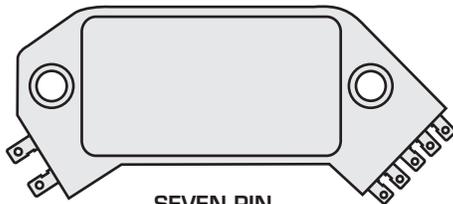
**GM IGNITIONS GM Large Cap HEI Distributors**



FOUR PIN



FIVE PIN



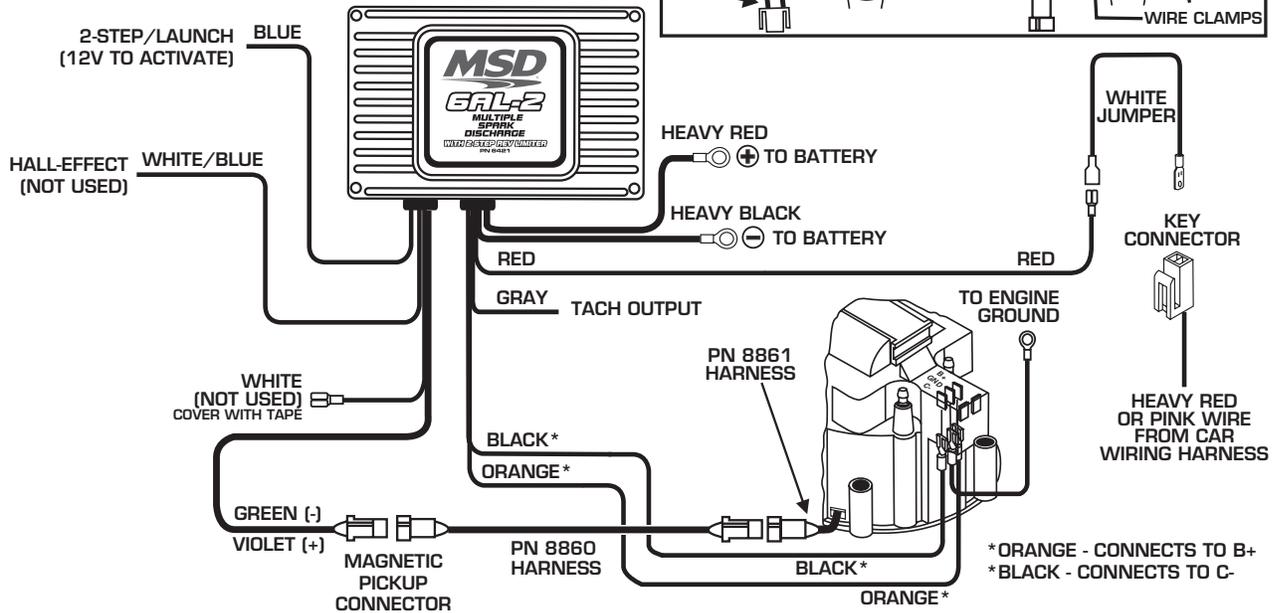
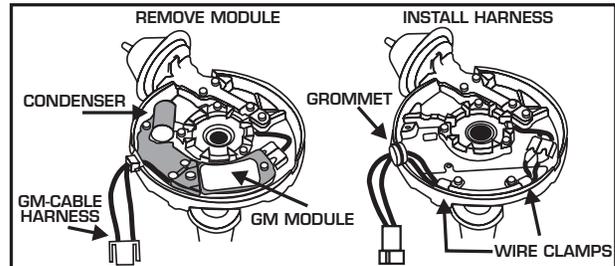
SEVEN PIN

There are three different large cap HEI distributors. To identify which of the following diagrams fit your specific application, remove the distributor cap and rotor and locate the ignition module at the base of the distributor. Count the number of terminals on both ends of the module and follow the corresponding diagram. GM used 4, 5, and 7-pin modules in these distributors.

**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.

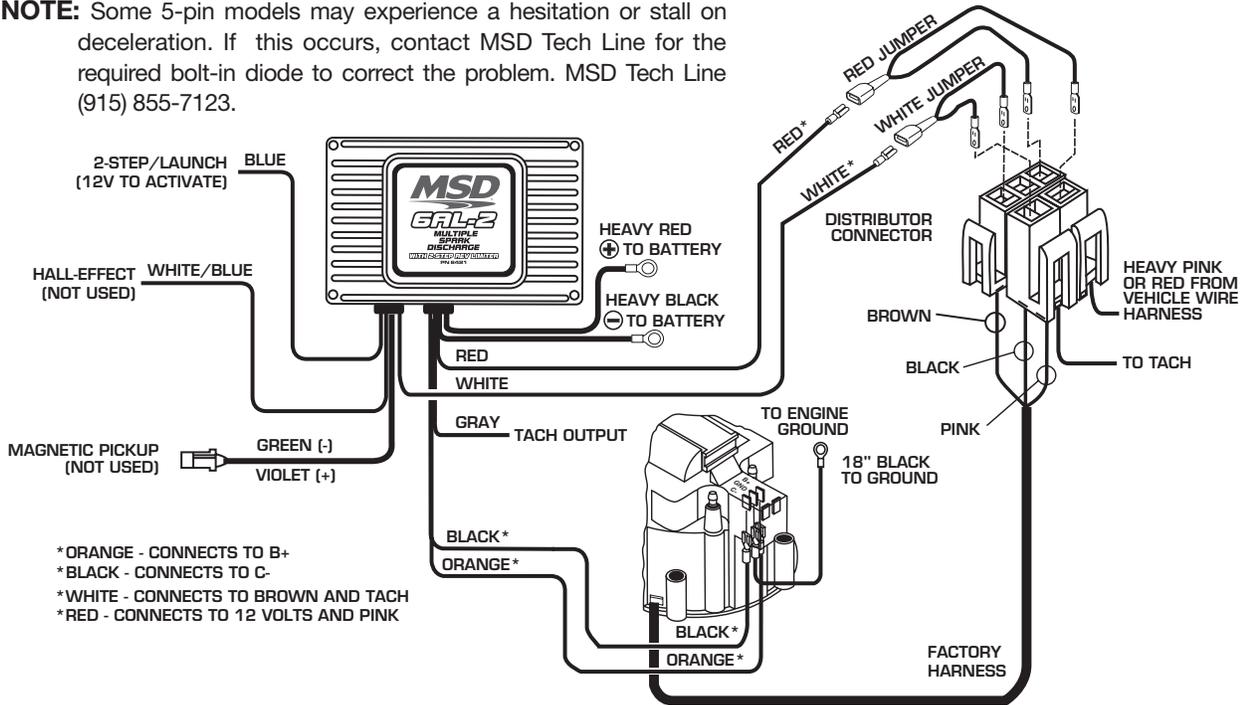
**GM IGNITIONS Wiring an HEI 4-pin Module (Magnetic Pickup Trigger).**

**NOTE:** The GM Ignition Module and condenser are removed and replaced with the supplied PN 8861 Harness.

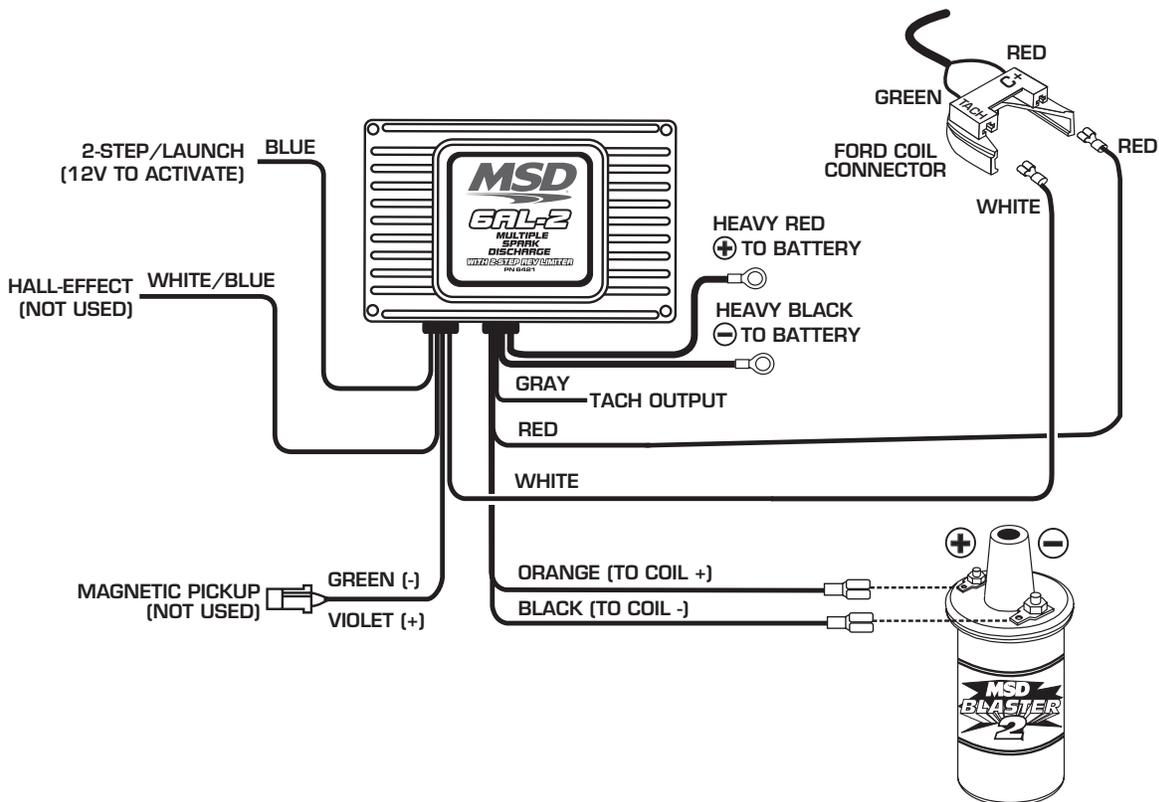


**GM IGNITIONS Wiring an HEI 5 or 7-pin Module (Amplifier Trigger).**

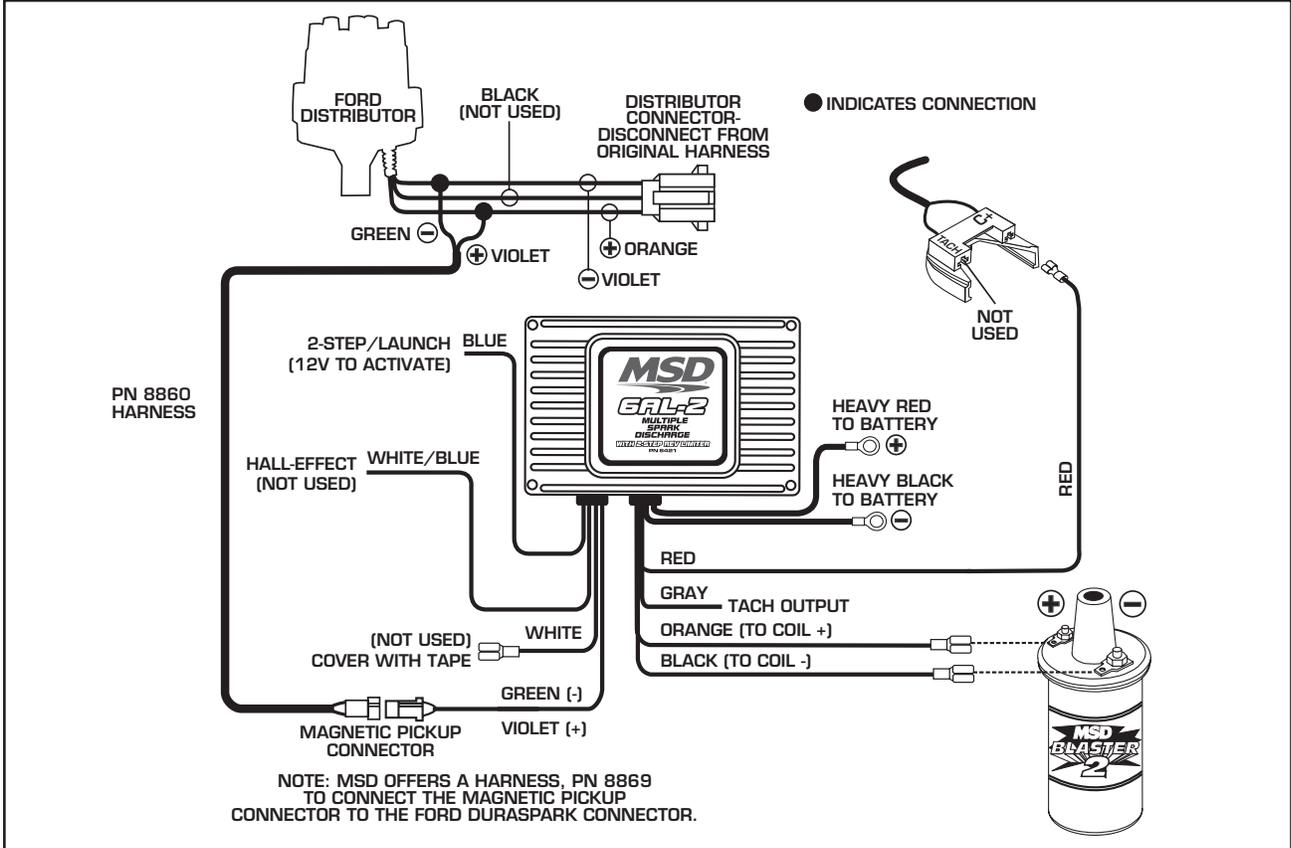
**NOTE:** Some 5-pin models may experience a hesitation or stall on deceleration. If this occurs, contact MSD Tech Line for the required bolt-in diode to correct the problem. MSD Tech Line (915) 855-7123.



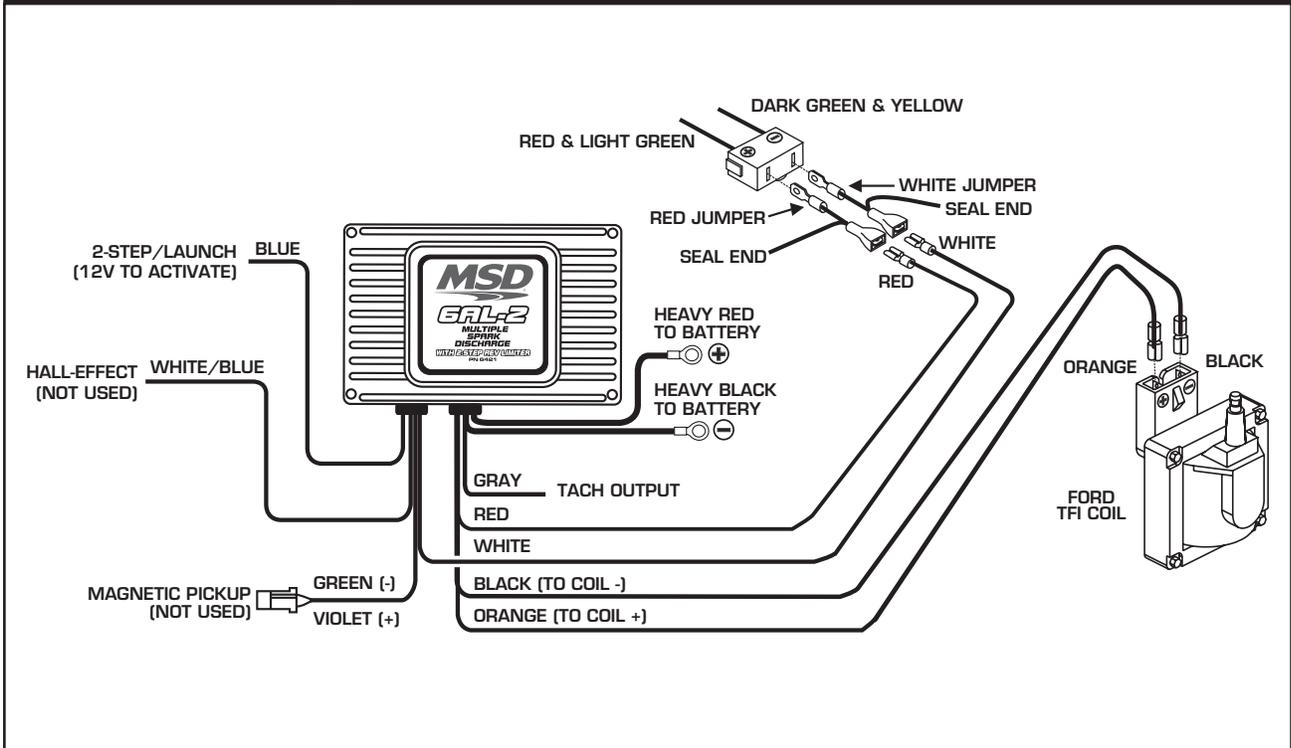
**FORD IGNITIONS Wiring a Ford DuraSpark using White Wire Trigger.**



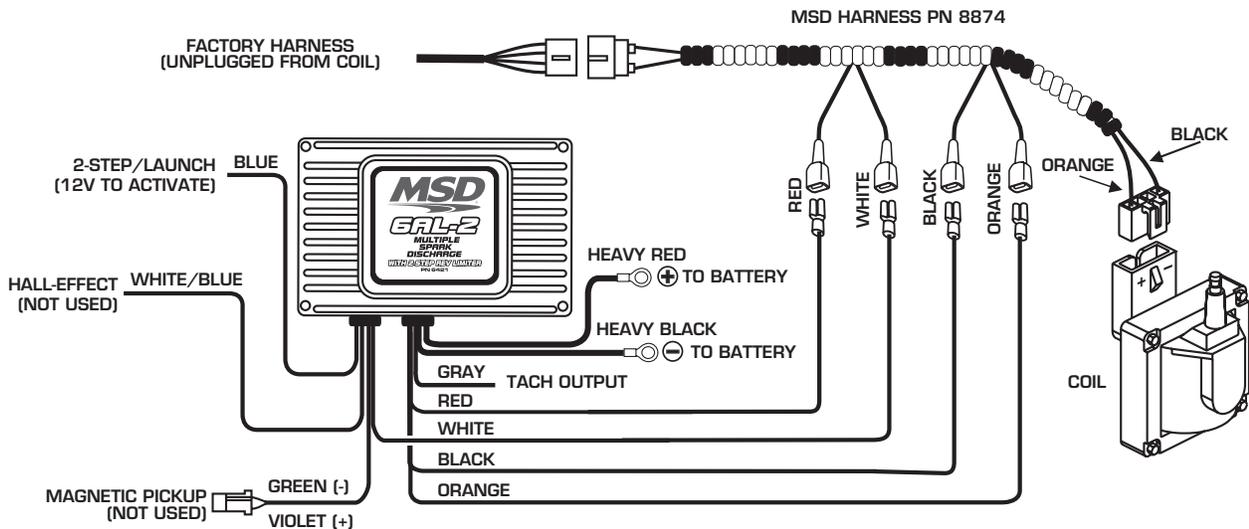
**FORD IGNITIONS** Wiring a Ford DuraSpark using Magnetic Pickup Trigger.



**FORD IGNITIONS** Wiring a Ford TFI (without Harness).

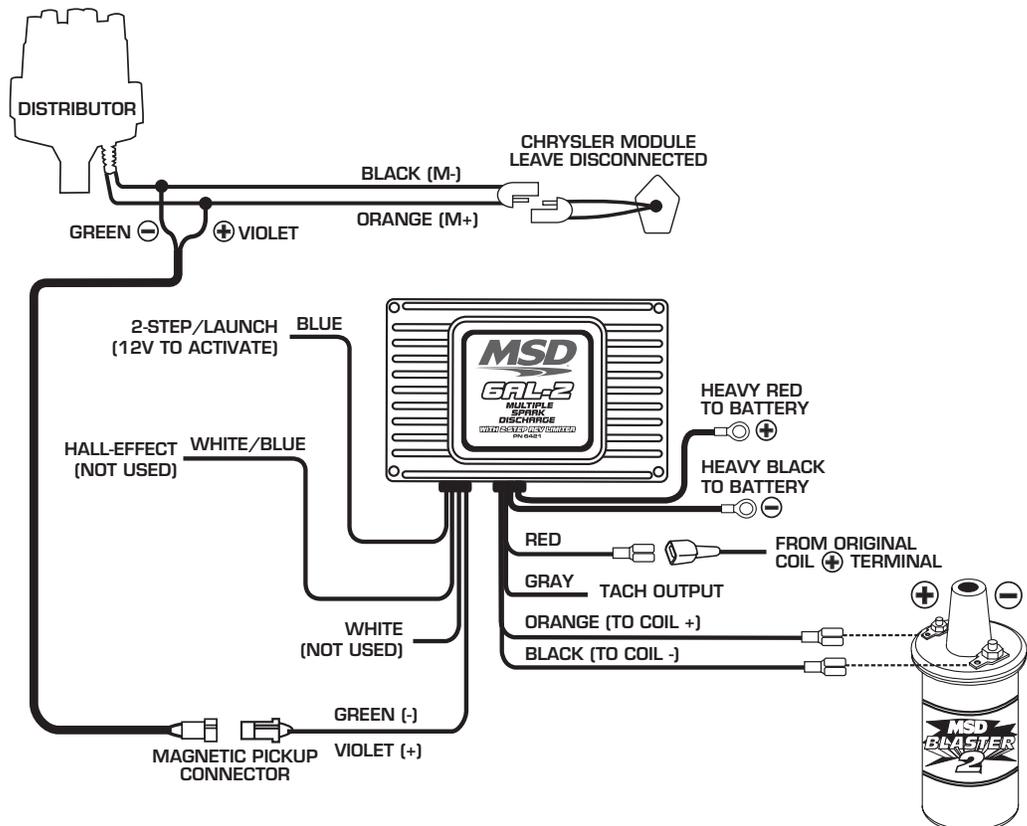


**FORD IGNITIONS** Wiring a Ford TFI with Harness, PN 8874.

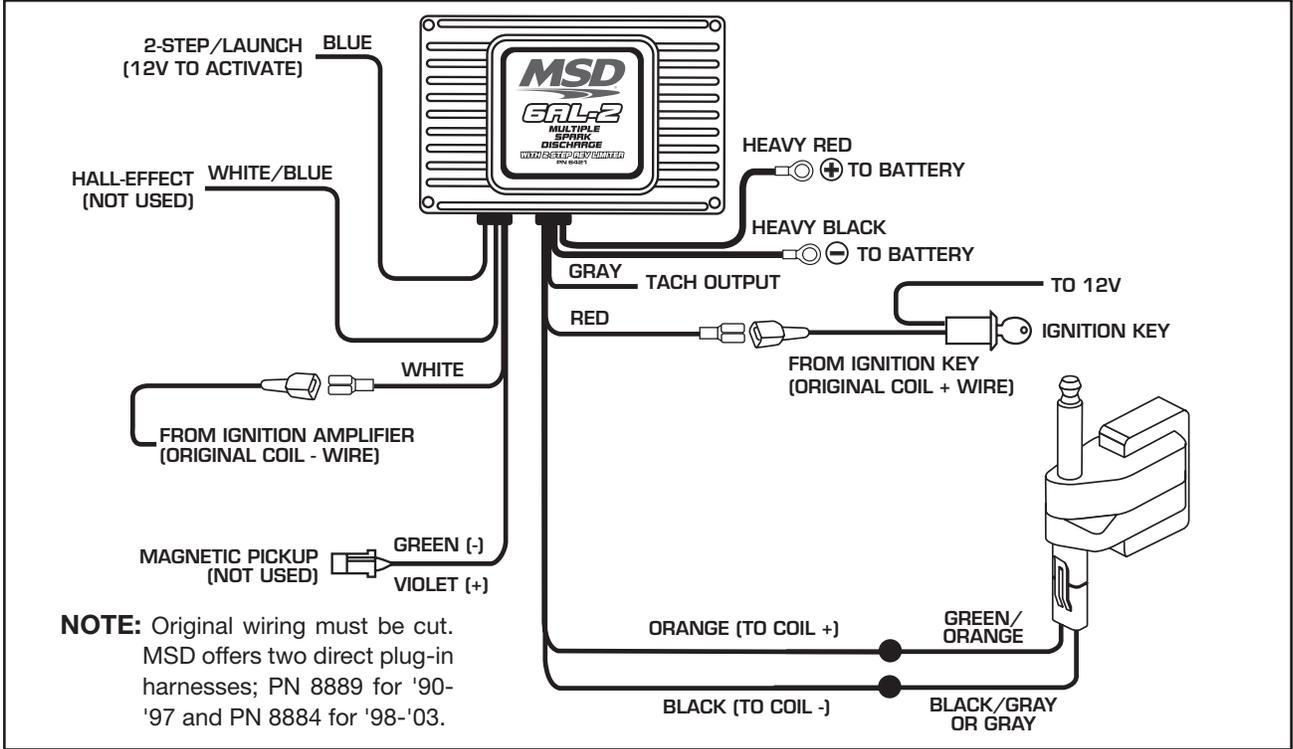


**NOTE:** Installation of a Timing Control with the Harness, see page 15.

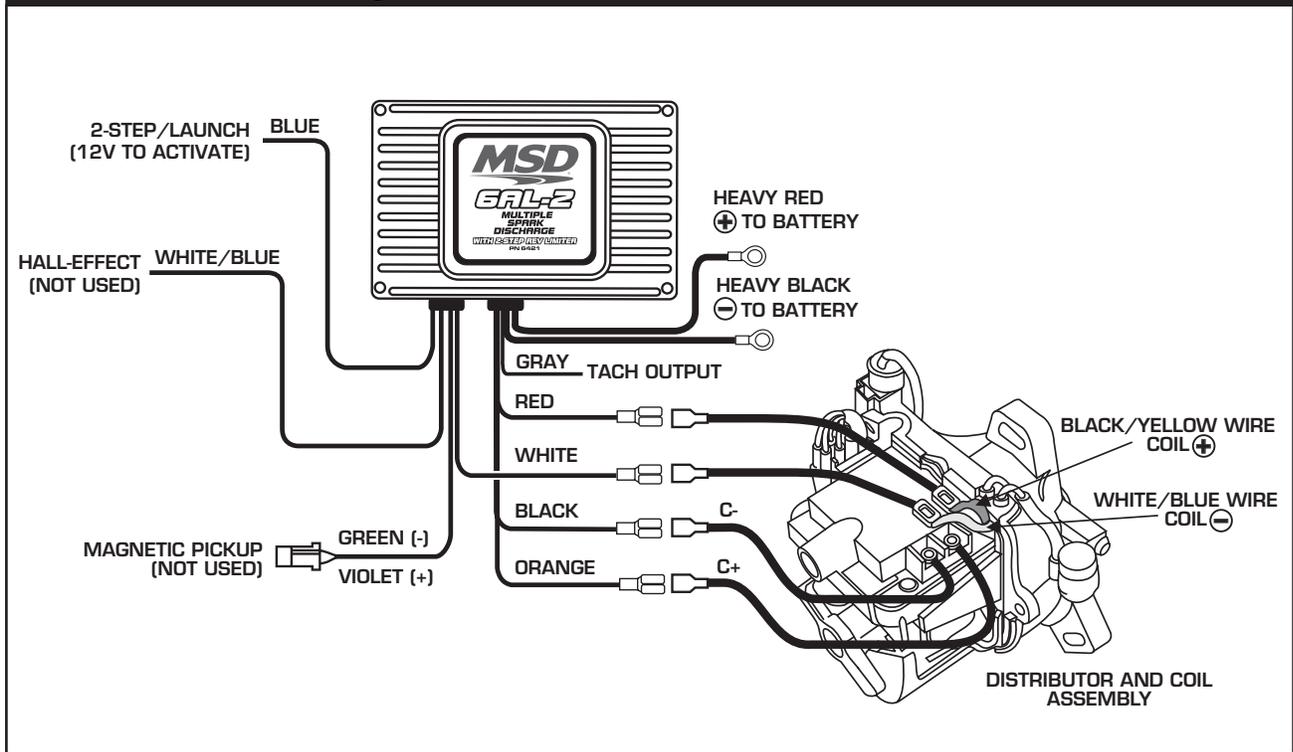
**CHRYSLER IGNITIONS** Wiring a Chrysler Electronic Ignition using Magnetic Pickup Trigger.



**CHRYSLER IGNITIONS** Wiring a Late Model Dodge with 2-pin connector.

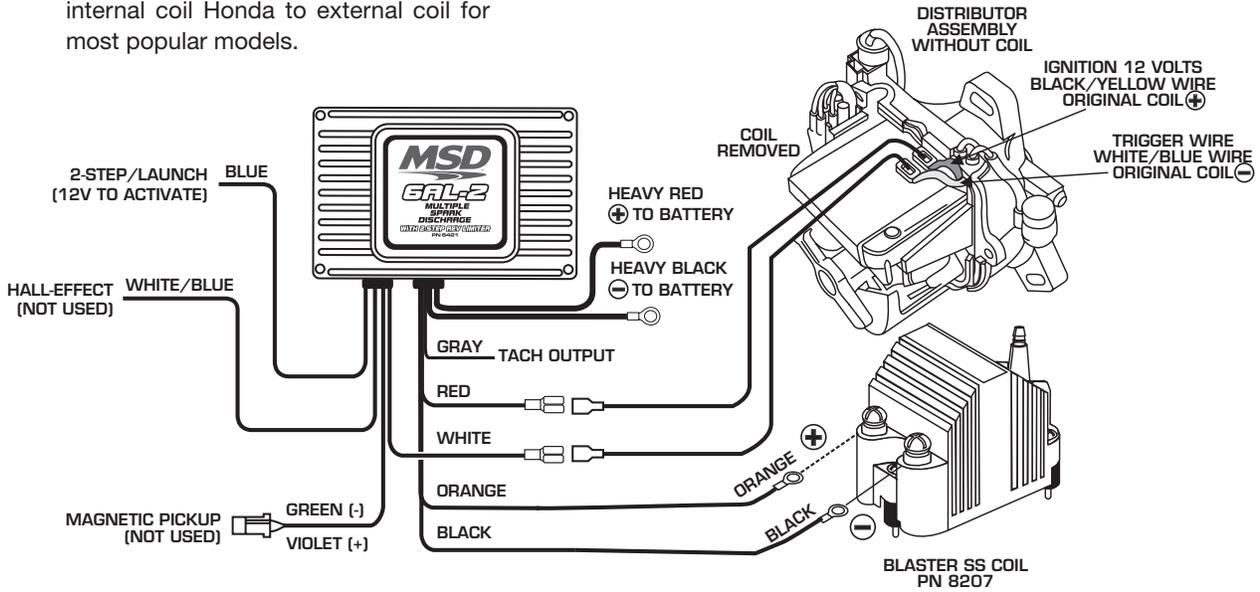


**HONDA IGNITIONS** Wiring a Honda with Internal Coil.

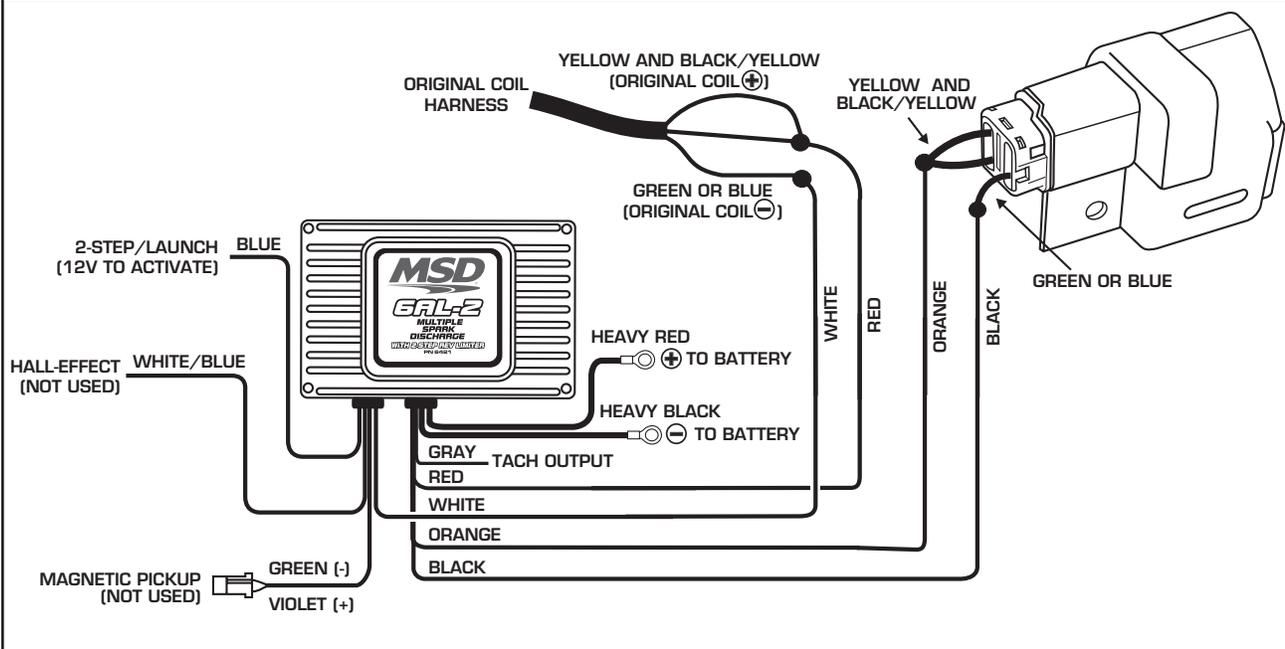


**HONDA IGNITIONS** Wiring a Honda with a Blaster Coil and Power Cap.

MSD offers a Power Cap to convert your internal coil Honda to external coil for most popular models.

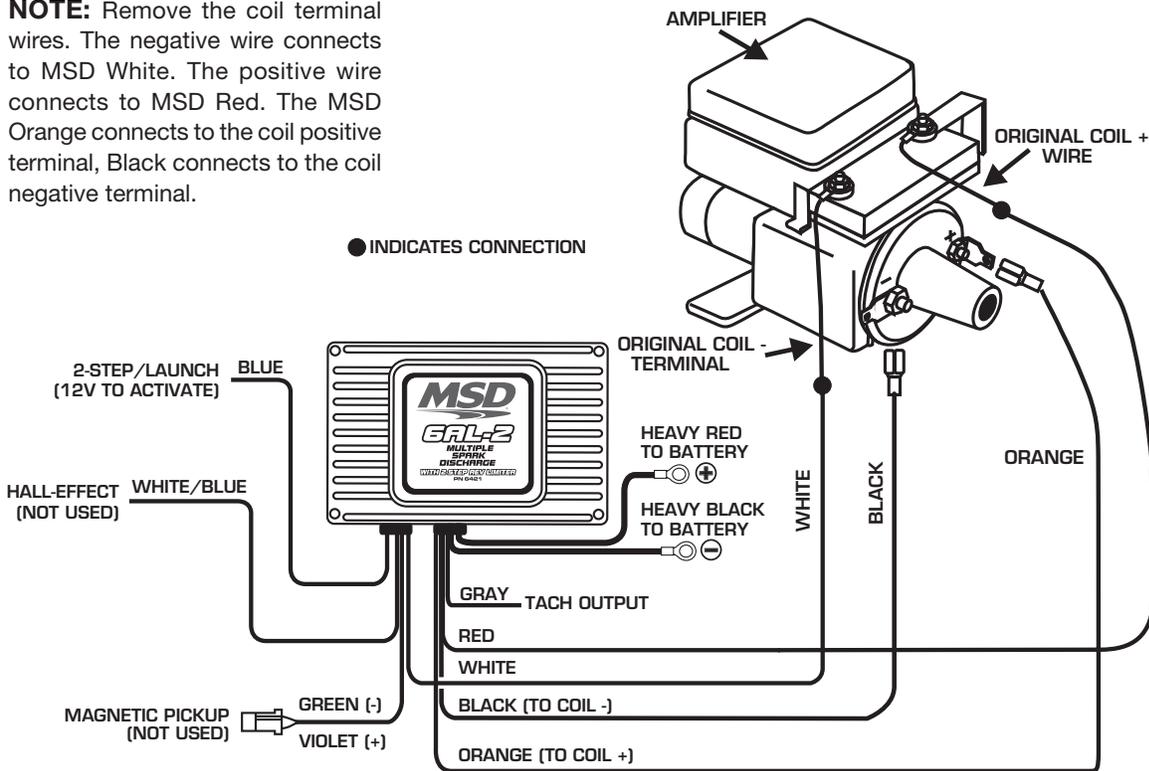


**HONDA IGNITIONS** Wiring a Factory External Coil Honda/Acura.

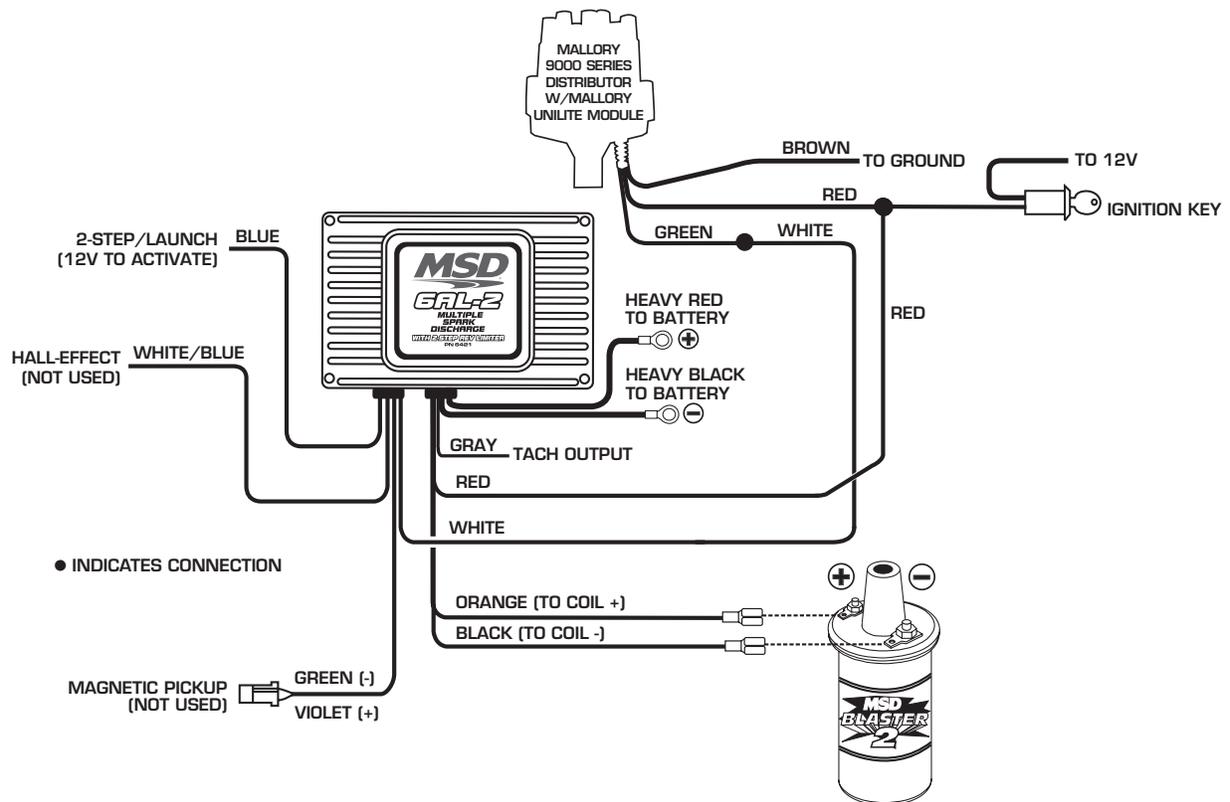


**GENERAL IMPORT WIRING**

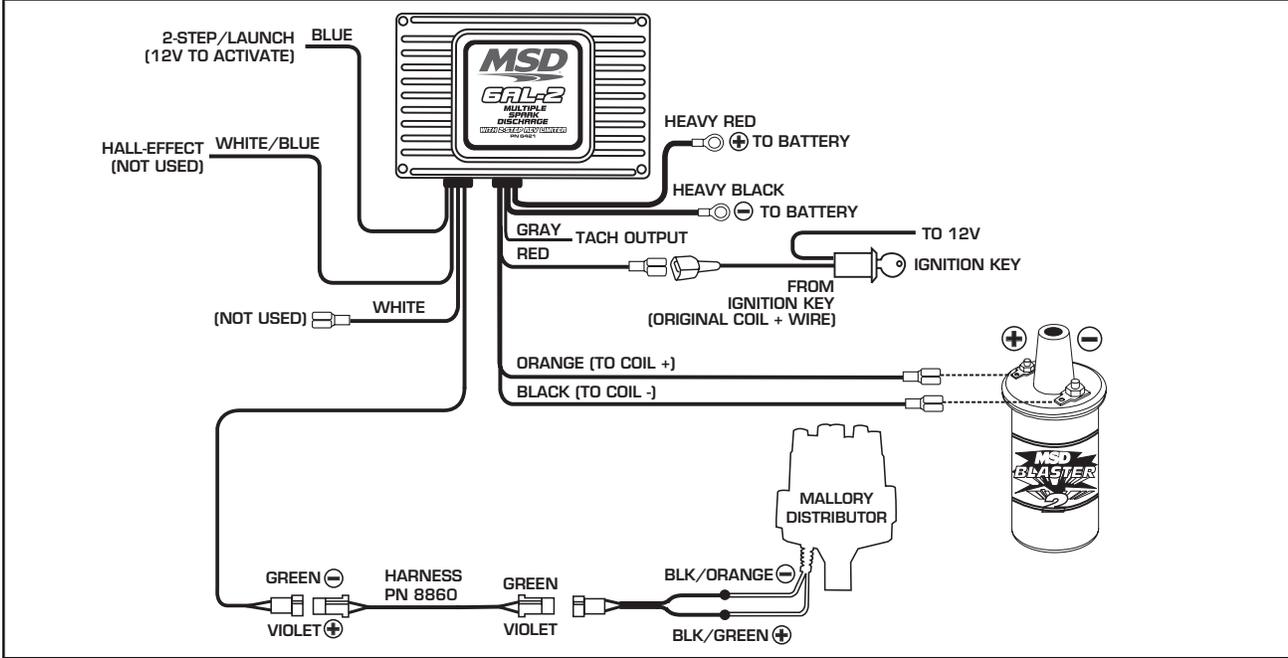
**NOTE:** Remove the coil terminal wires. The negative wire connects to MSD White. The positive wire connects to MSD Red. The MSD Orange connects to the coil positive terminal, Black connects to the coil negative terminal.



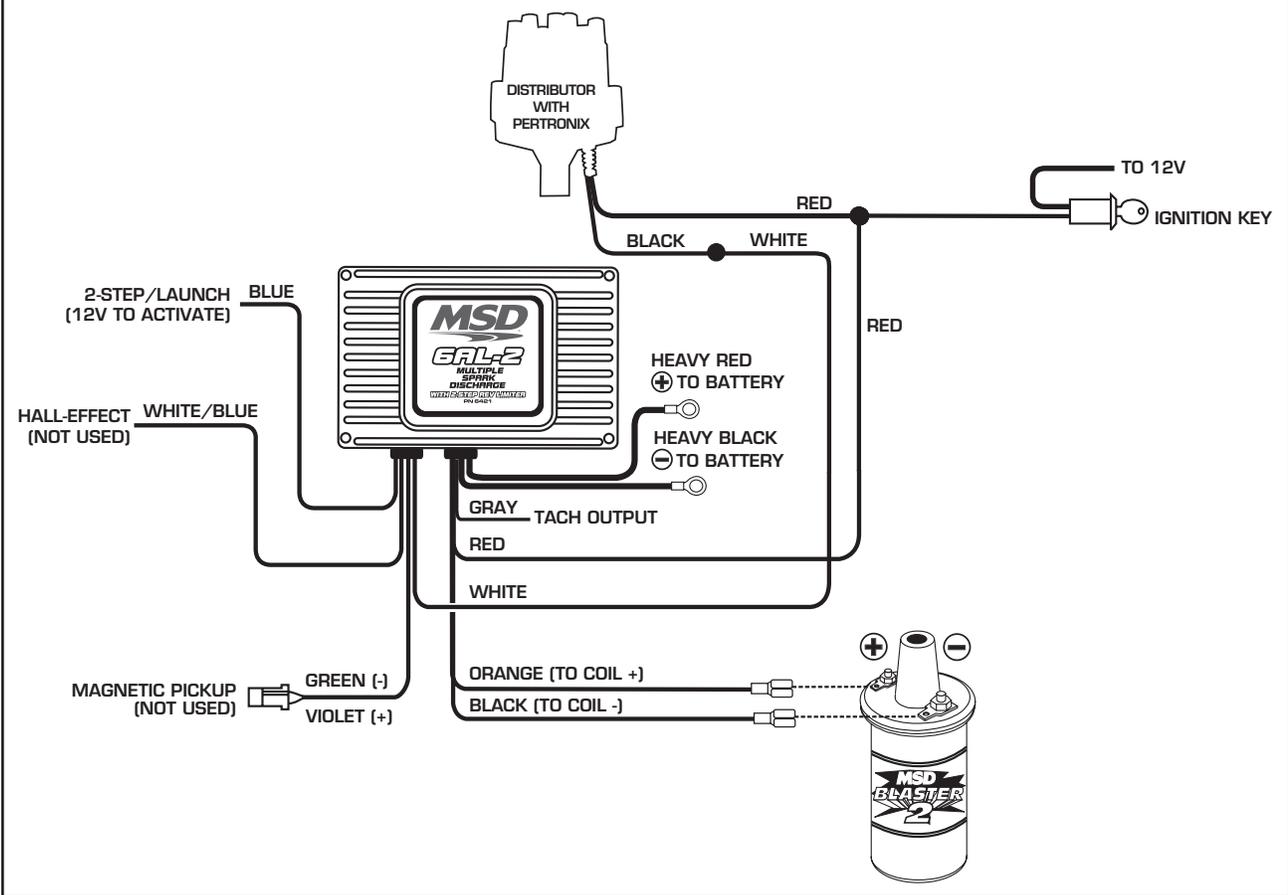
**AFTERMARKET COMPONENTS Wiring a Mallory Unilite or 9000 Series using Points Trigger.**



**AFTERMARKET COMPONENTS** Wiring a Mallory 9000 Series using Magnetic Pickup.

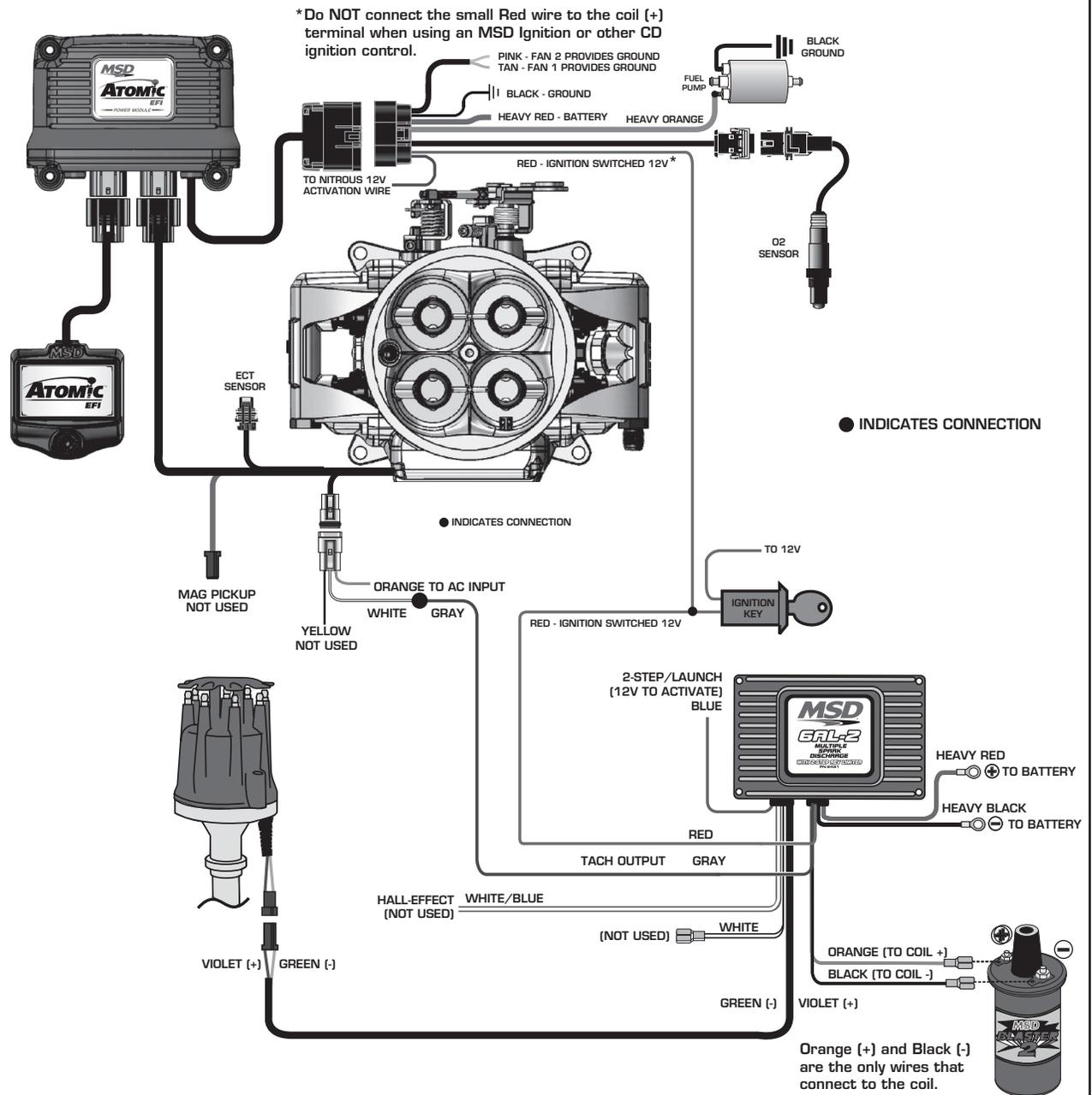


**AFTERMARKET COMPONENTS** Wiring to a Pertronix Ignitor Kit.



If you did not find a schematic to match your application, or if you need assistance, please contact MSD Tech at (915) 855-7123.

WIRING ATOMIC WITH PN 6421



WIRING ATOMIC WITH PN 6421 TO USE WITH TIMING CONTROL

