

INSTALLATION INSTRUCTIONS

MSD DIS-2 Plus HO PN 62113 DIS-4 Plus HO PN 62153

The MSD Digital DIS-2 Plus HO Ignition can be used on 4-cylinder engines equipped with two dual output coils. The DIS-4 Plus HO Ignition can be used on 4, 6 or 8-cylinder engines equipped with up to four dual output coils. The Ignitions will accept trigger inputs from electronic distributorless type ignition systems.

Parts Included

- 1 - MSD DIS Ignition
- 12 - Connectors, Butt Splice
- 1 - Cable Assembly
- 1 - Bypass Plug

Parts not included but may be needed

- Ignition Adapter(s) PN 8912, PN 89121, PN 8917
- Coil Interface Modules, PN 8870 for GM DIS Applications
- Coil Interface Modules, PN 8879 for Saturn Applications
- Cam Sync Adapter, PN 8914 for Saturn Applications

NOTE: It is recommended that you have the Service Manual and wiring diagram for your vehicle before beginning the installation of the MSD DIS Ignition.

WARNING: Before installing the Ignition, disconnect the battery cables. When disconnecting the battery cables, always remove the Negative (-) cable first and install it last.

- NOTES:**
1. Solid Core spark plug wires **cannot** be used with an MSD DIS Ignition.
 2. Vehicles originally equipped with a CD ignition **cannot** use an MSD DIS Ignition.
 3. This ignition should be used for **RACING ONLY**, not for street use.

IMPORTANT

Read these instructions before attempting this installation!

TECHNICAL FEATURES - DIGITAL DIS-2 PLUS HO

Operating Voltage: 12-18 volts (neg. ground)
Operating Current: 5.3 Amperes @ 10,000 RPM
RPM Capability: 14,000 RPM - 4-Cyl. @ 14 volts
Ignition Inputs: 2 - DIS Type
Ignition Outputs: 2 - DIS Type
LED Indicator: Ign. trigger, low battery voltage
Tach Output: (+) 12 volt square wave, 40° Duration
Rev Limiter: High RPM - Adjustable
Low RPM - Adjustable
Spark Duration: 20°- 4-Cyl. Max Sparks - 12
Energy Output Max: 165-175 milliJoules per spark.
2100 milliJoules per sequence.
Output Voltage: Primary (Into Coil): 460-480 volts
Secondary: (w/stock coil)
43,000 volts
Weight & Size: 3 lbs., 9.5"L x 4.5"W x 2.2"H

TECHNICAL FEATURES - DIGITAL DIS-4 PLUS HO

Operating Voltage: 12-18 volts (neg. ground)
Operating Current: 10 Amperes @ 10,000 RPM
RPM Capability: 14,000 RPM - 4, 6, 8-Cyl. @ 14 volts
Ignition Inputs: 2, 3, 4 - DIS Type
Ignition Outputs: 2, 3, 4 - DIS Type
LED Indicator: Ign. trigger, low battery voltage
Tach Output: (+) 12 volt square wave, 40° Duration
Rev Limiter: High RPM - Adjustable
Low RPM - Adjustable
Spark Duration: 20°- 4, 6, 8-Cyl. Max Sparks - 12
Energy Output Max: 165-175 milliJoules per spark.
2100 milliJoules per sequence.
Output Voltage: Primary (Into Coil): 460-480 volts
Secondary: (w/stock coil)
43,000 volts
Weight & Size: 3 lbs., 9.5"L x 4.5"W x 2.2"H

THEORY OF OPERATION

CAPACITIVE DISCHARGE

The MSD Digital DIS Series Ignitions feature a capacitive discharge ignition design. The majority of stock ignitions 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 to 460-480 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 Digital DIS Series Ignition produces full power multiple sparks for each firing of the spark plug. The number of 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.

REV LIMITER

The MSD DIS-2 and 4 Ignitions are equipped with a built-in adjustable Soft Touch Rev Control. This rev limit feature can be adjusted in 100 rpm increments using the program switches on the ignition's end panel. 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 accurate to within 10 rpm of the selected rpm.

GENERAL INFORMATION

BATTERY

An MSD Digital DIS Series Ignition will operate on any negative ground, 12 volt electrical system without a distributor. The MSD can be used with a 16 volt battery and can withstand a momentary 24 volts in case of a jump start. The ignition will deliver full voltage with a supply of 12 - 18 volts and will operate with a supply voltage as low as 8 volts.

If your application does not use an alternator, allow at least 15 amp/hour for every half hour of operation. If the engine is cranked with the same battery or other accessories such as an electric fuel pump, fan or water pump are used, the amp/hour rating of the battery must be increased.

COILS

The MSD Digital DIS Ignitions can be used with most stock coils and most aftermarket coils that are designed to replace the stock coils. If you have any questions concerning coils, contact our MSD Customer Service Department at (915) 855-7123. Due to the increased energy driving the stock coils, this ignition should **not be used for street use**.

TACHOMETERS/FUEL INJECTION

The MSD Digital Series Ignitions feature a Tach Output Terminal on the side of the unit. This terminal provides a trigger signal for tachometers, fuel injection, a shift light or other add-on devices that require a 12 volt square wave rpm signal with a 20° duration.

Some vehicles may require an Ignition Adapter to operate properly with the MSD. For more information on tachometers and MSD Ignition Adapters, refer to page 13.

NOTE: If you plan on welding on your vehicle, to avoid possible damage to the ignition, always disconnect both MSD Heavy Power cables from the battery. It is also recommended that the tach ground wire be disconnected.

SPARK PLUGS AND WIRES

Spark plug wires are very important to the operation of the DIS Series Ignition. A good quality, helically wound wire and proper routing are required to obtain the best performance from the ignition. MSD recommends using a helically wound suppression type wire such as the MSD 8mm Heli-Core or 8.5mm Super Conductor Spark Plug Wire.

This type of wire provides a good path for the spark to follow while keeping Electro Magnetic Interference (EMI) to a minimum. Excessive EMI, such as the amount that is produced by solid core spark plug wires, will interfere with the operation of the MSD or other electronics on the vehicle.

NOTE: 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.

To add more heat protection to the wires, MSD offers Pro Heat Guard, PN 3411. This is a glass woven and silicone coated protective sleeve that can be slid over the plug wires. For extra protection to the spark plug boots, MSD also 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. Platinum style spark plugs are not recommended. MSD suggests that you 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 other variables. Every application is different and should be tested and tuned.

MOUNTING

The MSD Ignition may be mounted in any location except on the engine or near the exhaust manifold. Excessive heat at these locations may cause damage to the ignition. It is not recommended to mount the unit in an enclosed area such as the glovebox. When selecting a mounting location, make sure the cable harness will reach the battery and coils and the programming dial are accessible. When a suitable location is found, hold the ignition in place and mark the location of the mounting holes. Using a 13/64" drill bit, drill a hole in each of the locations marked and use the supplied hardware screws to mount the ignition unit (Figure 1).

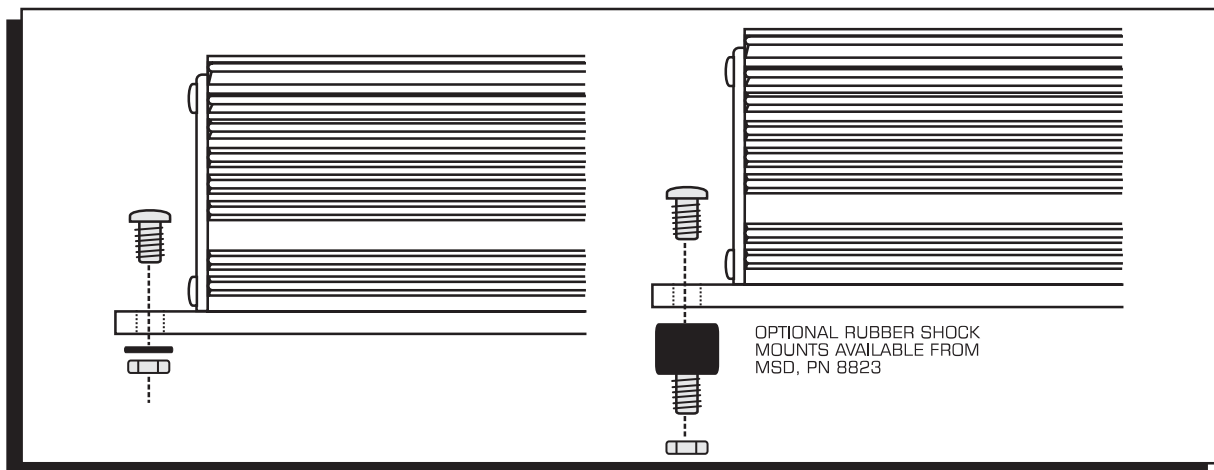


Figure 1 Mounting the DIS Ignition.

WIRING

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 all other wires) with 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.

ROUTING WIRES

The MSD wires should be routed away from direct heat such as the exhaust manifolds/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 as an electrical shield.

Power Leads	
These are the two heavy guage wires (14 guage) and are responsible for getting direct battery voltage to the ignition.	
Heavy Red	This wire connects directly to the battery positive (+) terminal, to a positive battery junction or the positive side of the starter solenoid. NOTE: Do not connect to alternator.
Heavy Black	This wire connects to a good ground, either at the battery negative (-) terminal or to the engine.
Red	Connects to a switched 12 volte source, such a the ignition key or switch.
Coil Wires	
Brown/Orange	There are two Brown/Orange wires. Connects to the positive (+) terminal/wire of the coil. NOTE: This is the only wire that makes electrical contact with coil positive (+).
Brown/White	Connects to the negative (-) terminal/wire of the coil (Channel 1). NOTE: This is the only wire that makes electrical contact with channel 1 coil negative (-).
Brown/Green	Connects to the negative (-) terminal/wire of the coil (Channel 2). NOTE: This is the only wire that makes electrical contact with channel 2 coil negative (-).
Brown/Yellow	Connects to the negative (-) terminal/wire of the coil, (Channel 3 available on DIS-4 only). NOTE: This is the only wire that makes electrical contact with channel 3 coil negative (-).
Brown/Violet	Connects to the negative (-) terminal/wire of the coil, (Channel 4 available on DIS-4 only). NOTE: This is the only wire that makes electrical contact with channel 4 coil negative (-).
Trigger Wires	
There are two or more circuits that can be used to trigger the MSD Ignition; from the electronic amplifier.	
White	This wire is used to connect to the electronic ignition amplifier output of channel 1.
Green	This wire is used to connect to the electronic ignition amplifier output of channel 2.
Yellow	This wire is used to connect to the electronic ignition amplifier output of channel 3.
Violet	This wire is used to connect to the electronic ignition amplifier output of channel 4.
Accessory Wires	
Brown	Ignition interrupt/theft deterrent. To activate, connect this wire to ground through a switch.
Blue	Two Step feature. To activate low rpm limit, connect this wire to 12 volts.
Pink	Step Retard. To activate the step retard connect this wire to 12 volts.

WARNING: High Voltage is present on the coil terminals. Do not touch the coil terminals or wiring when the engine is cranking or running.

WIRING

NOTE: The factory rev limiter and all timing functions will still function as normal with the MSD Digital DIS-Ignition installed.

1. Locate the ignition coils and identify which wire leading to the coil(s) has 12 volts on it with the ignition key in the On position. If available, refer to the vehicle's service manual wiring diagram to assist you in identifying the 12 volt wire(s).

NOTE: On some vehicles the starter must be engaged to provide +12 volts to the positive wire leading to the coils. If none of the wires indicate 12 volts, have someone engage the starter while testing each of the wires.

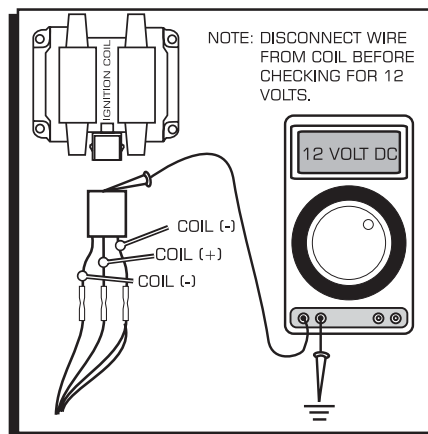


Figure 2 Locating 12 Volts at the coil.

If a service manual is not available, follow this procedure

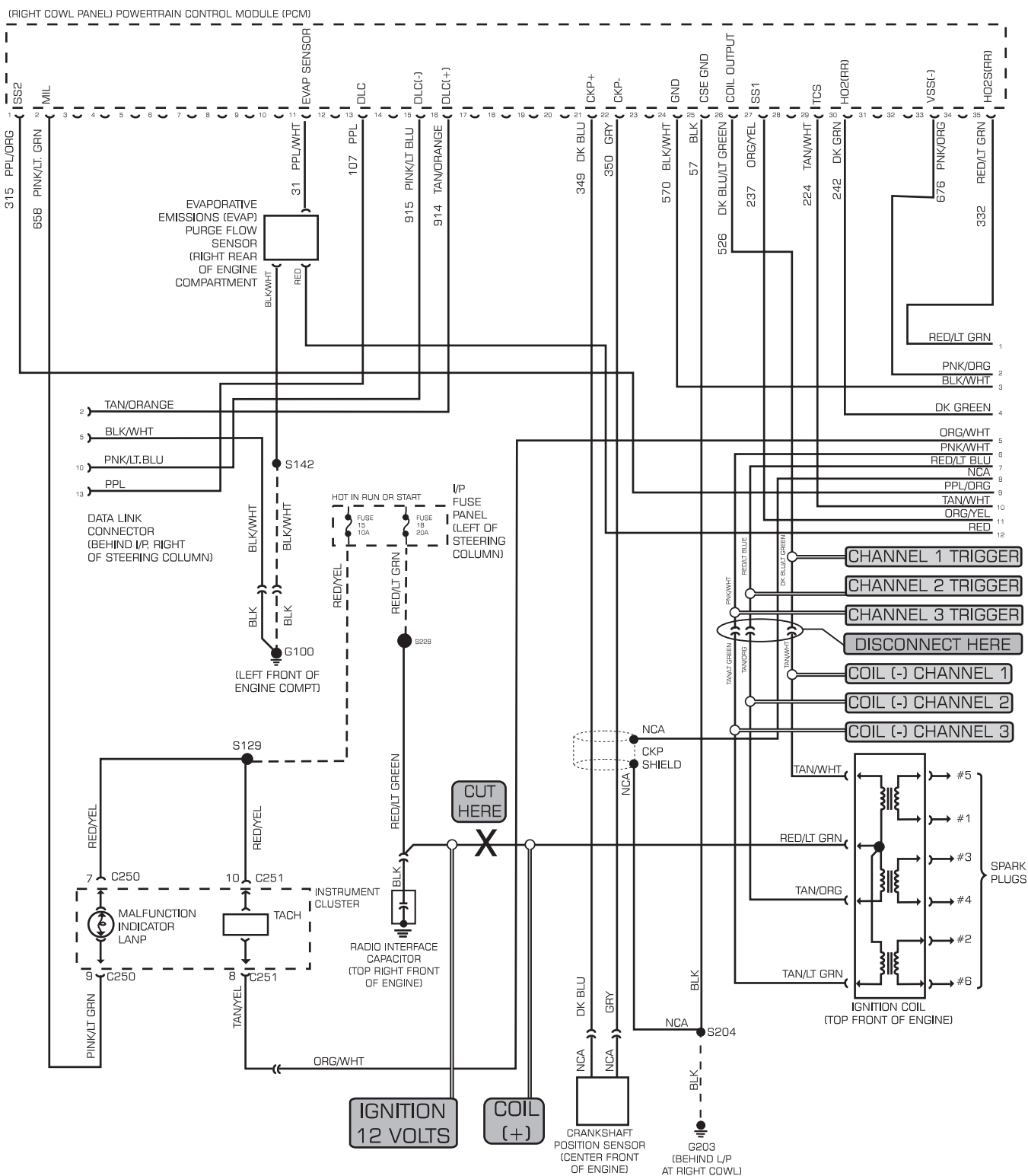
- A. Disconnect all wires leading to the coil(s). **NOTE:** On some applications it may require that the harness leading to the coil be cut to access the wires.
 - B. Turn the ignition switch On. Using a voltmeter, probe each of the wires on the harness to determine which wire has 12 volts on it. **NOTE:** Make sure the wires do not contact any engine components.
 - C. The wire that shows 12 volts is the positive feed to the coil. Turn the ignition switch Off and connect the DIS Red wires to the harness and the DIS Brown/Orange wires to the positive (+) side of the coil.
 - D. The remaining wires on the harness are the trigger wires. On a 4-cylinder you should have two, on a 6-cylinder three, and on an 8-cylinder there should be four. Each of these wires needs to be connected to one of the trigger input wires of the DIS Ignition. Using Figure 3 and 4 as a guide, connect the DIS trigger input and coil (-) wires as follows.
1. Connect the DIS White wire, Channel 1, to the first factory trigger wire and then connect the DIS Brown/White Coil (-) wire to the corresponding wire on the coil.
 2. Connect the DIS Green wire, Channel 2, to the second factory trigger wire and then connect the DIS Brown/Green Coil (-) wire to the corresponding wire on the coil.
 3. Connect the DIS Yellow wire, Channel 3, (available on the DIS-4 only) to the third factory trigger wire and then connect the DIS Brown/Yellow Coil (-) wire to the corresponding wire on the coil.
 4. Connect the DIS Violet wire, Channel 4, (available on the DIS-4 only) to the fourth factory trigger wire and then connect the DIS Brown/Violet Coil (-) wire to the corresponding wire on the coil.

IMPORTANT: If you are using the DIS-4HO on a 4 or 6-cylinder application where all the DIS channels are not used, you must ground the unused trigger input wires. On a 6-cylinder application, ground the DIS Violet wire and on a 4-cylinder, ground the DIS Violet and Yellow wires.

At this point all the DIS harness wires should be connected. Review your wiring and make any corrections if required. To verify that all wires are connected to their proper locations, plug the supplied bypass plug into the DIS harness and then start the vehicle. If the vehicle does not start then the harness was not installed properly. Check all your connections to ensure that they are secure and connected in the proper order. The only wires that should be connected directly to the coil are the BRN/ORG, BRN/WHT, BRN/GRN, BRN/YEL and the BRN/VIO. Do not hook any other wires to the coil. The Red wires should be connected to a switched 12 volt source, allowing the ignition to be switched On and Off by the vehicle's ignition switch.

In most applications, when the vehicle starts, that indicates that the harness is correctly installed. Connect the DIS heavy Red wire to the positive (+) battery terminal and the heavy Black wire to the negative (-) battery terminal. Remove the bypass plug from the harness and plug the DIS Ignition into the harness. Start the vehicle to verify that all functions are operating.

Figure 3 General Wiring Before Installation of the MSD.
6-Cylinder with Coil Packs



6-Cylinder with Coil Packs



PROGRAMMABLE FEATURES

The DIS Ignitions provide several programmable features that are set using the seven rotary dials on their end panel. The DIS Ignitions are programmed at the factory for operation on most 4, 6 or 8-cylinder engines with distributorless ignitions.

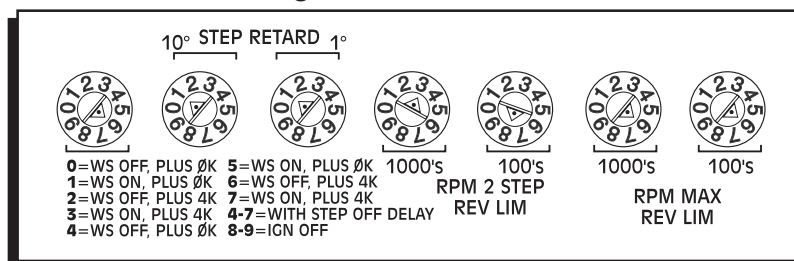


Figure 5 Programming Rotary Switches.

IGNITION MODE

The first dial, Ignition Mode, has several features and must be set to configure the MSD to match your ignition system.

Waste Spark: If the ignition system uses dual tower coil packs, the system is a Waste Spark (WS). This means that each side of the coil is fired but only one cylinder is under compression, so the other spark is 'wasted'. For these systems, you will select one of the WS On positions. If you are incorporating a coil-per-cylinder ignition system, select a WS Off position.

Plus 4K or ØK: Each of the Ignition Mode selections shows Plus 4K or ØK. This will add either 4,000 rpm to the Max rev limit that you set or will leave the rpm limit at the value shown. This allows for a Max rev limit to be set above 9,900 rpm and to 13,900 rpm.

Step Off Delay: If you are using nitrous, the Step Off Delay should be incorporated. This feature will keep the timing retarded for one second after the Step Retard is deactivated. This helps clear the engine of the nitrous mixture. When positions 4-7 are used, the Step Off Delay is active. When 0-3 positions are used selected there is NO Step Off Delay.

Ignition Off: Positions 8-9 will disable the spark output of the ignition. This could be used as a theft deterrent.

IGNITION MODE SWITCH POSITIONS

Switch Position	WS or CPC	Standard RPM or Add 4,000	Step Delay
0	CPC	Standard	No
1 (Default)	WS	Standard	No
2	CPC	Add 4,000 rpm to Max limit	No
3	WS	Add 4,000 rpm to Max limit	No
4	CPC	Standard	Active
5	WS	Standard	Active
6	CPC	Add 4,000 rpm to Max limit	Active
7	WS	Add 4,000 rpm to Max limit	Active
8	Ignition is Disabled		
9	Ignition is Disabled		

STEP RETARD

A retard can be activated by supplying 12 volts to the Pink wire (Figure 6). This is ideal for nitrous applications or for a high speed retard. The amount of retard is set through the two rotary switches and the total amount of retard is 30°. When the Mode Switch is in positions 4-7, there will be a one second delay after 12 volts are removed from the Pink wire. In positions 0-3 the deactivation is instant.

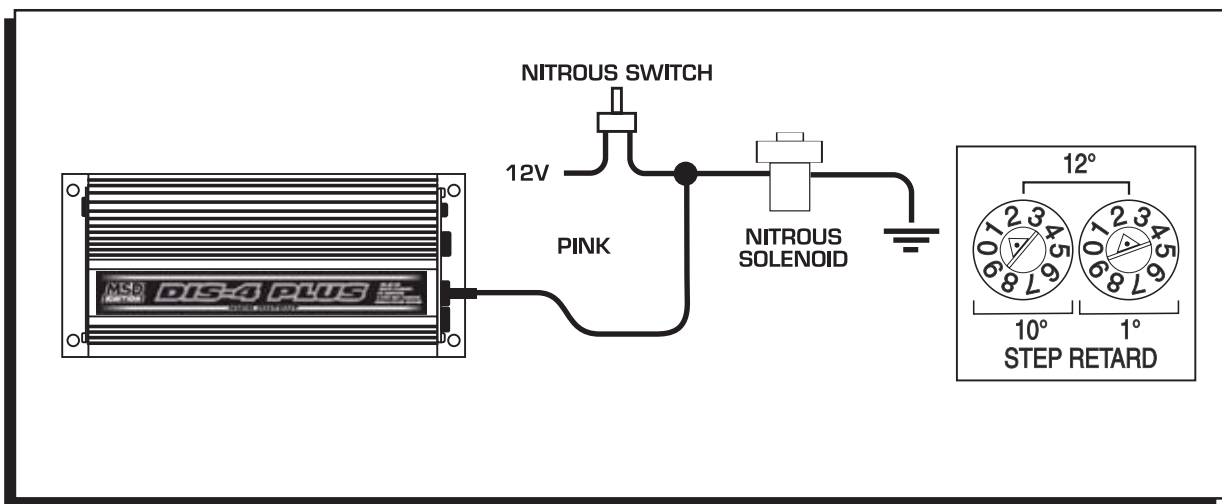


Figure 6 Wiring the Step Retard.

RPM LIMITS

There are two adjustable Rev Limits, a Max Limit and a 2-Step. The Max Limit will protect your engine in the event of driveline failure or missed shifts. This Max Limit DOES NOT override the limit set by the factory ECU.

The 2-Step allows you to activate a lower rpm limit that is generally used on the starting line. When 12 volts are supplied to the Blue wire, the 2-Step is activated (Figure 7). When 12 volts are removed, the Max Limit is active.

Both limits are adjusted with one dial in 1,000 rpm increments and one dial in 100 rpm increments. When the Mode Switch is set in the 2, 3, 6 or 7 position, another 4,000 rpm will be added to the Max rev limit value.

NOTE: The minimum rev limit is 2,000 rpm, even if lower numbers are selected.

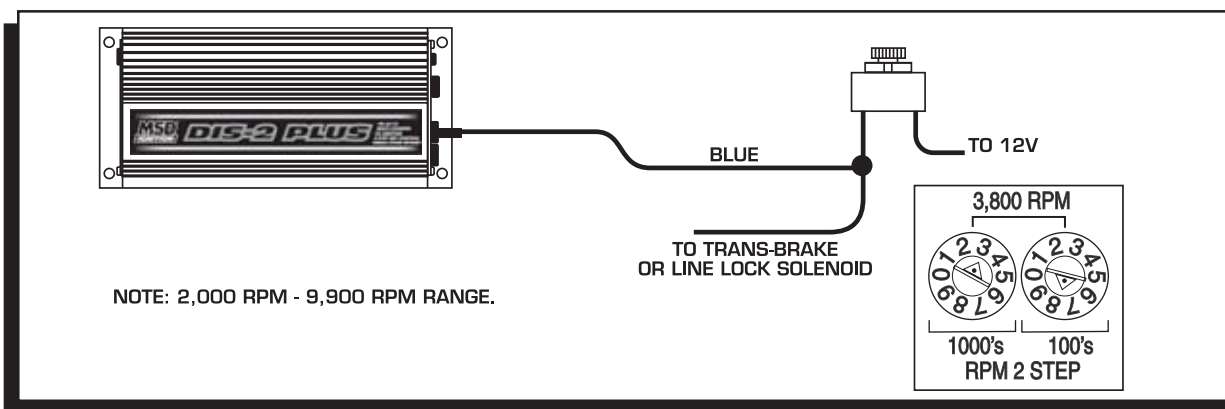


Figure 7 Wiring the Two Step.

WIRING DIAGRAMS

The following wiring diagrams illustrate numerous installations on different vehicles and applications. If you experience difficulties when installing your MSD DIS-2 or DIS-4 Ignition, contact our Customer Service Department at (915) 855-7123 Monday - Friday, 8am - 5pm mountain time or e-mail us at: msdtech@msdignition.com.

Figure 8 GENERAL DIS WIRING Typical 4-cylinder application (factory wiring)

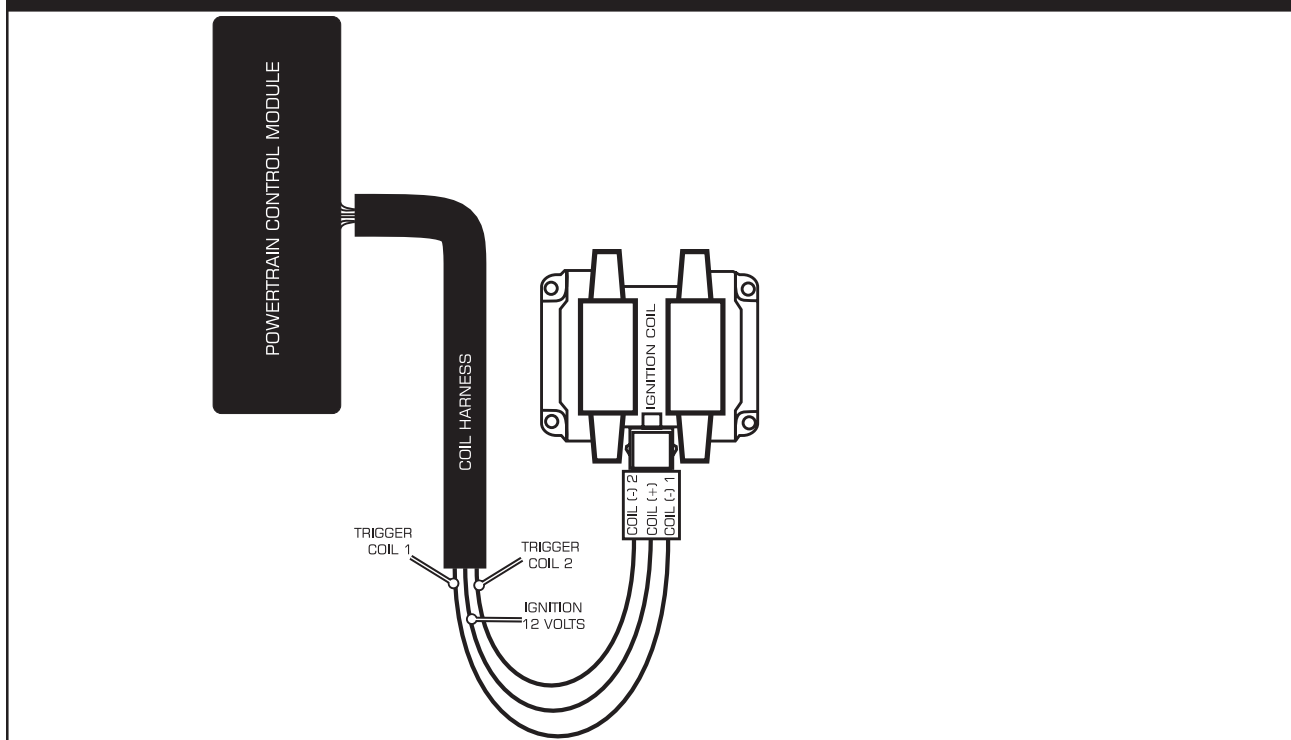


Figure 9 GENERAL DIS WIRING Typical 4-cylinder application with DIS-2 Ignition.

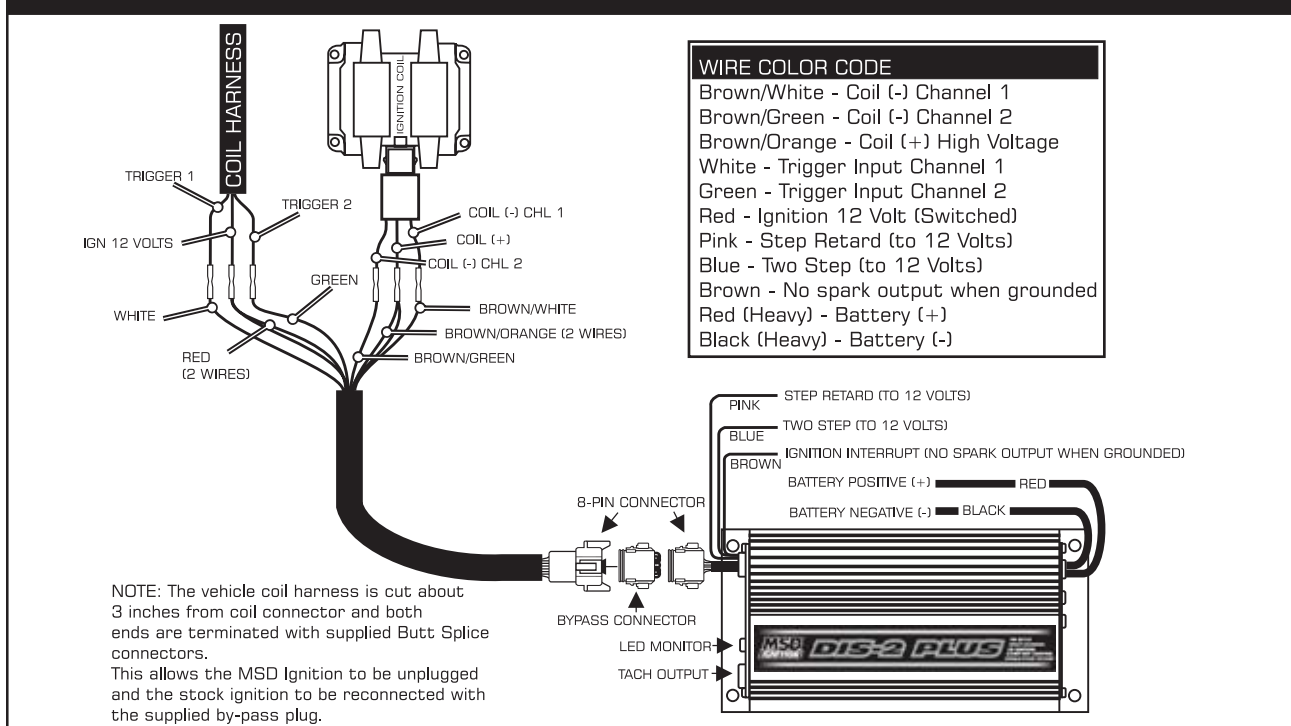
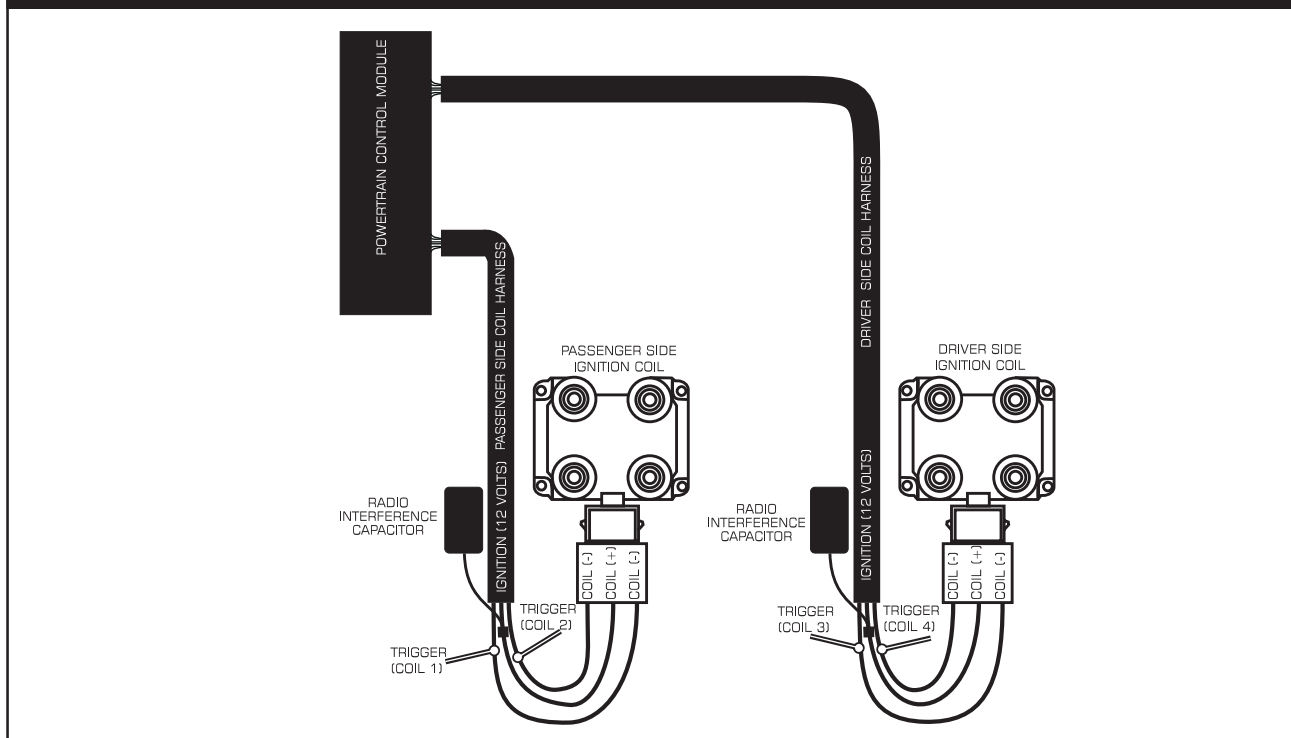
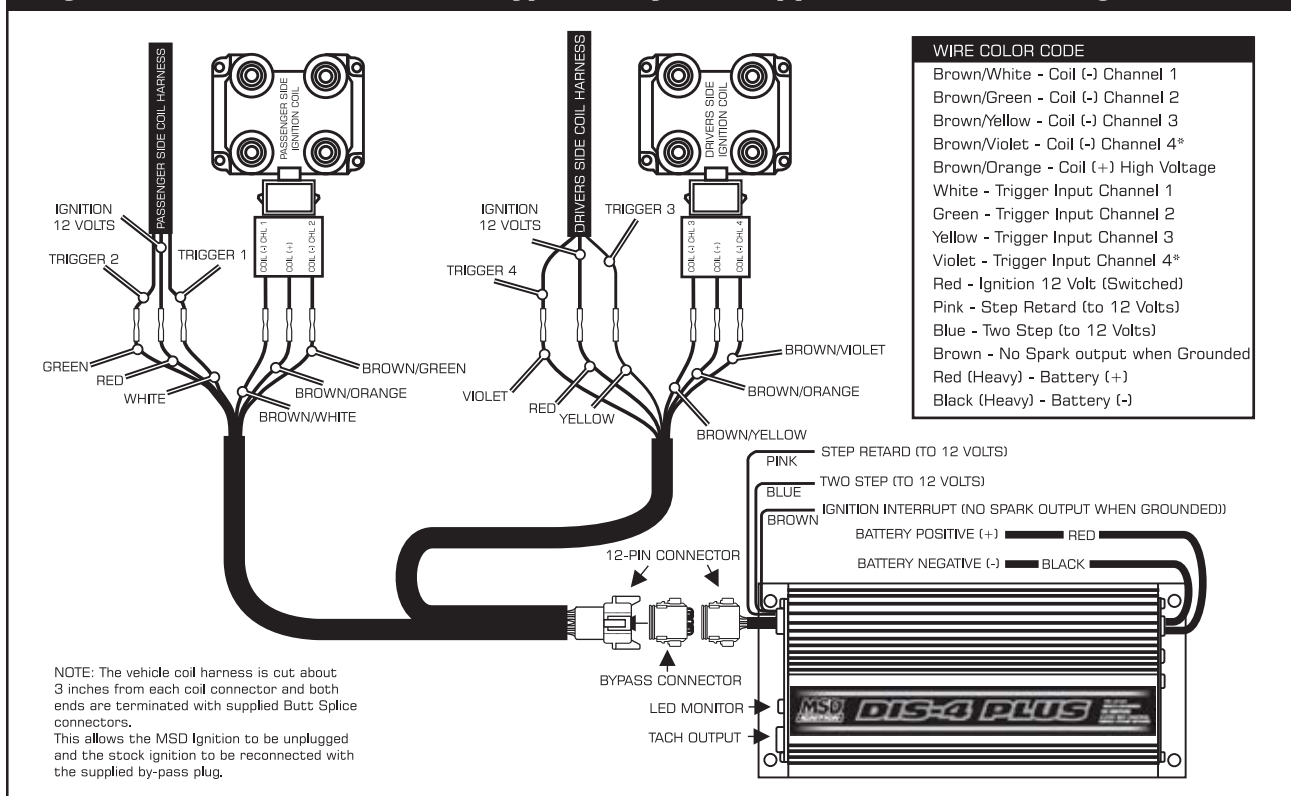


Figure 12 GENERAL DIS WIRING Typical 8-cylinder application (factory wiring)**Figure 13 GENERAL DIS WIRING Typical 8-cylinder application with DIS-4 Ignition**

PRESTART CHECK LIST

- The only wires connected to the coil negative (-) terminals/wires are the MSD Brown/White, Brown/Green, Brown/Yellow, Brown/Violet.
- The only wire connected to the coil positive (+) terminals/wires is the MSD Brown/Orange.
- The only wires connected to the factory harness wires (trigger input) are the MSD White, Green, Yellow, Violet.
- The small Red wire of the MSD is connected to a switched 12 volt source (factory harness).
- If using a MSD Digital DIS Ignition on a 4-cylinder engine equipped with single coils per cylinder, the firing cycle select must be programmed for no wastespark (720° firing S4 - Off).
- 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.

WARNING: The MSD Digital DIS Series Ignitions are capacitive discharge ignitions. High voltage is present at the coil primary terminals. Do not touch the coil or connect test equipment to the terminals.

IGNITION ADAPTERS

If your vehicle does not operate correctly or if you experience a no-run situation you probably need an MSD Ignition Adapter.

Some vehicles with electronic fuel injection systems may require an MSD Ignition Adapter to run properly. 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. If your vehicle's engine starts and then shuts off after a short period of time or the check engine light turns on then your vehicle will require an Ignition Adapter. An MSD Ignition Adapter, PN 8912, PN 89121 or PN 8917 will usually remedy the problem.

The chart below lists most of the vehicles that require an Ignition Adapter. It is very important that the Adapter(s) be installed at the same time that the DIS Ignition is installed to prevent activation of the check engine light. On OBD II equipped vehicles resetting of the check engine light requires special computer diagnostic equipment. On vehicles not listed install the DIS Ignition before purchasing the Adapter, to see if the ignition will operate properly without the Adapter(s).

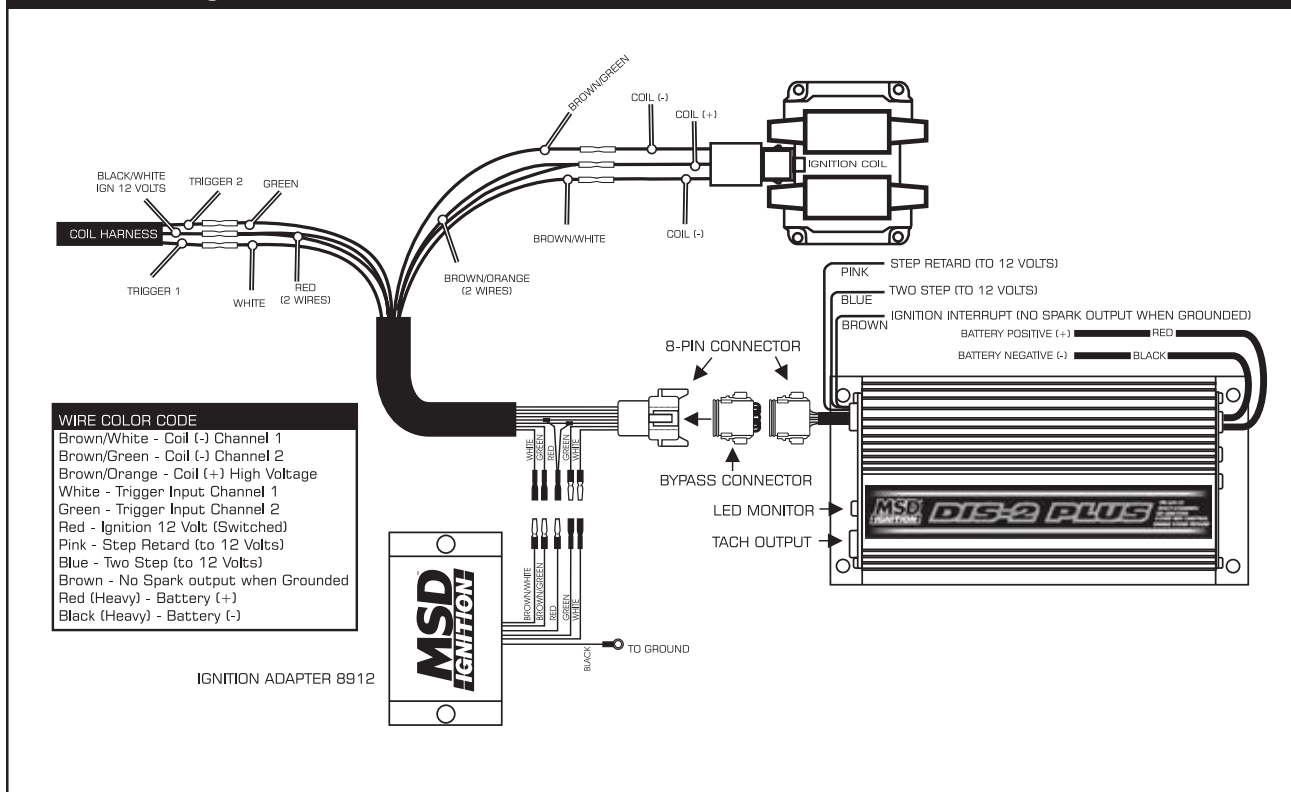
INSTALLING THE PN 8912 IGNITION ADAPTER

The number of adapters required is determined by the number of cylinders on the engine. Four cylinder engines will require one Adapter, 6 and 8 - cylinders require two. Attach the PN 8912 Adapter as shown in Figure 14.

If you still experience problems after installing the adapters, call the MSD Customer Service Department for further instruction.

VEHICLE	ADAPTER	QTY REQUIRED
Mitsubishi Eclipse, Galant, Mirage, Montero, Precis, Expo	8912	1
Eagle Talon, Summit	8912	1
Dodge Avenger, Neon, Stratus, Caravan	8912	1
2003-On	8917	
Chrysler Sebring, Cirrus	8912	1
Plymouth Breeze, Voyager, Acclaim, Colt, Sundance, Laser	8912	1
Ford V8 Coil-Per-Cylinder Ignitions, '99-On (Two DIS-4 Ignitions are required)	89121	4
Ford V8 Coil Pack Ignitions, '96-'98	8912	2

NOTE: Saturn will require one Cam Sync Adapter, PN 8914.

Figure 14 MSD DIS-2 IGNITION WITH IGNITION ADAPTER, PN 8912

TROUBLESHOOTING

Every MSD Digital DIS Ignition undergoes numerous quality control checks including a four hour burn-in test. If you experience a problem with your MSD, our research has shown that the majority of problems are due to improper installation or poor connections.

The Troubleshooting section has several checks and tests you can perform to ensure proper installation and operation of the MSD. If you have any questions concerning your MSD, call our Customer Service Department at (915) 855-7123, Monday - Friday, 8am to 5pm mountain time.

MISSES AND INTERMITTENT PROBLEMS

Generally, a miss or hesitation at higher rpm is usually not caused by the ignition. Most probable causes include a coil or plug wire failure, arcing from the plug boot to ground. Several areas to inspect are:

- Always inspect the plug wires at the coil and at the plug for a tight connection and visually inspect for cuts, abrasions or burns.
- Inspect the positive (+) and negative (-) coil terminal/wire connections. Because the MSD is a Capacitive Discharge ignition and it receives a direct 12 volt source directly from the battery, there will **not** be voltage at the coil positive (+) terminal with the key turned On. During cranking or while the engine is running, very high voltage will be present at the coil. **Do not** connect any test equipment to the coil positive (+) or negative (-) terminals/wires.

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 essential check.
- 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 out, use the following procedure to test the ignition for spark. MSD also offers an Ignition Tester, PN 8996, which can be used to check the entire ignition system, tachometers, rpm activated switches and shift lights without removing them from the vehicle.

CHECKING FOR SPARK

The following procedure will determine if the ignition is producing a spark.

1. Make sure the ignition switch is in the "Off" position.
2. Remove the spark plug wires and spark plugs from the engine. With the spark plugs inserted in the end of the plug wires, lay the spark plugs against ground.
3. Disconnect the MSD trigger wire (Green, White, Yellow or Violet) from the ignition amplifier harness.
4. Turn the ignition to the On position. Do not crank the engine.
5. Tap one of the trigger wires to ground several times. Each time you pull the wire from ground, a spark should jump across the spark plugs. If spark is present, the ignition is working properly. Repeat the test for each coil. If there is no spark proceed 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 is 12 volts on the small Red wire from the MSD when the key is in the On position. If 12 volts is not present, find another switched 12 volt source and repeat the test.

NOTE: Some vehicles will require cranking the engine to provide +12V to the MSD Ignition Red wire.

 - D. 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.

RETURNING TO STOCK IGNITION

To return the ignition system back to standard operation simply unplug the MSD Digital DIS control cable and insert the supplied jumper plug into the cable connector. If using aftermarket low resistance coils, they must be replaced with the original factory coils. **NOTE:** If an Ignition Adapter was added to the vehicle harness the adapters **must be disconnected** before reverting back to the stock ignition.

LED MONITOR

The MSD Digital DIS Ignition is equipped with an LED monitor. The LED will light every time there is a spark. At above idle speeds, it may appear to be on continuously.

If the LED begins to flash erratically, it is indicating that there is a problem. The battery supply voltage may be getting to low for full power operation, or a coil positive wire may be grounded.

Fault Codes: The LED will flash a series to alert you of a problem.

Two Blinks: Low battery, indicated below 3,000 rpm.

Three Blinks: Intermittent input signal.

Four Blinks: This is only used at MSD in test mode.



This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.

The repaired unit will be returned as soon as possible after receipt, COD for any charges. (Ground shipping is covered by warranty). All units are returned regular UPS unless otherwise noted. 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).

MSD IGNITION 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 MSD Ignition. 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 MSD Ignition be liable for special or consequential damages.