



Installation Instructions

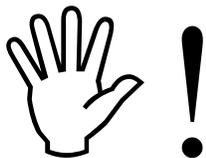
8 Channel C²D Ignition System

PN 30-2800

4 Channel C²D Ignition System

PN 30-2801

WARNING:



This installation is not for the electrically challenged! Use this ignition with **EXTREME** caution! If you are uncomfortable with anything about this, please refer the installation to an AEM trained tuning shop or call 800-423-0046 for technical assistance. You should also visit the AEM Performance Electronics Forum at <http://forum.aempower.com>

NOTE: AEM holds no responsibility for any engine damage that results from the misuse of this product!

This product is legal in California for racing vehicles only and should never be used on public highways.

IMPORTANT!

Read these instructions completely before attempting this installation!

You MUST ground all unused ignition trigger input wires!

Solid core spark plug wires cannot be used with an AEM C²DI system!

Suppression type (resistor) spark plugs must be used with the AEM C²DI system!

The AEM C²DI 8 Channel Ignition can be used on 3, 4, 5, 6, 8 and 10 cylinder engines equipped with four or more ignition coils. The AEM C²DI 4 Channel Ignition can be used on 2, 4, 6 or 8 cylinder engines equipped with up to 4 ignition coils. All AEM C²DI systems will accept trigger inputs from electronic DIS type ignition systems as well as from igniters.

NOTE: It is strongly recommended that you have a wiring diagram for your specific vehicle before attempting to install the AEM C²DI ignition system.

WARNING!

Before installing the AEM C²DI system, disconnect the battery cables. The AEM C²DI system generates high voltage when power is supplied, this voltage is always present when the unit is on even if the engine is not running. Improper handling may cause **shock or death**. The unit must be completely powered down when any electrical work is performed on the vehicle. **This is not a hollow warning, a modern CDI possesses enough stored energy to cause serious harm to a person even after the key is turned off!**

TECHNICAL FEATURES - 4 CHANNEL CDI

Operating Voltage:	8-18 volts, negative ground
Operating Current:	7.0 Amps @ 10,000 RPM
RPM Capability:	14,000 RPM, 4ch @ 14 volts
Ignition Inputs:	2, 3, 4 - rising or falling edge
Ignition Outputs:	4
Energy Storage Caps:	2
LED Indicator:	Ignition trigger
Tach Output:	+12v square wave
Multi-Strike Duration:	~20 degrees
Energy Output Max:	175-189 milliJoules per spark
Output Voltage:	Primary: 500-540 volts Secondary (assume 100:1): 50,000 to 54,000 volts
Size:	5.5"L x 4.6"W x 1.4"H
Weight:	1.7 Lbs

TECHNICAL FEATURES - 8 CHANNEL CDI

Operating Voltage:	8-18 volts, negative ground
Operating Current:	12.0 Amps @ 10,000 RPM
RPM Capability:	14,000 RPM, 8ch @ 14 volts
Ignition Inputs:	5,6,7,8 - rising or falling edge
Ignition Outputs:	8
Energy Storage Caps:	2
LED Indicator:	Ignition trigger
Tach Output:	+12v square wave
Multi-Strike Duration:	~20 degrees
Energy Output Max:	175-189 milliJoules per spark
Output Voltage:	Primary: 500-540 volts Secondary (assume 100:1): 50,000 to 54,000 volts
Size:	5.5"L x 4.6"W x 1.4"H
Weight:	1.7 Lbs

CAPACITIVE DISCHARGE

The AEM C²DI system is a 4 or 8 channel multiple-spark twin-capacitive discharge ignition system. The C²DI technology delivers full energy to the spark plug at engine speeds exceeding 10,000 rpm, regardless of the time between ignition events, ensuring that pressurized fuel mixtures are thoroughly ignited. The C²DI's capacitive discharge ignition (CDI) produces a fast, high-energy pulse that is applied to the ignition coil that is over 500 volts and up to 30 amps. A standard inductive ignition system typically produces only about 250 volts on the coil primary. This higher voltage is what allows the coil to produce a much higher spark voltage. A typical ignition coil (1:100 turns ratio) with an inductive ignition will produce about 25,000 volts to the spark plug but using the C²DI with the same coil will produce 50,000 volts or more at the spark plug.

MULTI-STRIKE

The AEM C²DI Ignition system triggers multiple spark plug firings for each ignition event. The actual number of sparks depends on the time available. This time will decrease as rpm increases and so does the number of additional spark events. Generally, the additional sparks occur for approximately 20° of crankshaft rotation. At high RPM there is only one spark due to the time limitations.

BATTERY

The AEM C²DI Ignition system is designed for negative ground, 12 volt and 16 volt electrical systems. The AEM C²DI Ignition system will deliver full voltage with a supply of 8 - 18 volts and will operate with battery voltages as low as 5 volts.

COILS

The AEM C²DI Ignition system is designed to be used with most stock coils that do not have an integral igniter (ignition amplifier). If your coil has only 2 electrical connections then it does not have an integral igniter. If it has 3 or more or is a DIS coil pack, it may have an igniter built in. If you have any questions concerning the suitability of your coils with the AEM C²DI Ignition system, DO NOT hook up the AEM C²DI Ignition. Contact the manufacturer of your car or a tuner knowledgeable with your application and confirm that the coils do not have an internal ignitor. Hooking up the AEM C²DI Ignition to a coil with an internal ignitor will destroy the coil as soon as the key is turned on.

TACHOMETERS

The AEM C²DI Ignition system features a 12 volt, square wave tachometer signal that can be used to drive aftermarket tachometers, shift lights or data-loggers. It pulses 1 time for each ignition trigger signal.

WELDING

Before welding on your vehicle, disconnect the AEM C²DI Ignition system power cables from the battery. Failure to do so may damage your ignition.

SPARK PLUGS AND WIRES

High quality resistor type spark plug and suppression wires are extremely important for the proper operation of the AEM C²DI Ignition system. Solid core spark plug wires cannot be used with the AEM C²DI Ignition system as they will cause excessive EMI which will interfere with the proper operation of the ignition system. Attention should be paid to the routing of the spark plug wires. They should never be placed near sharp edges or adjacent to each other in the firing order. Old, physically worn plug wires and boots should be discarded, never reused. Any rub marks or pin-holes in the wire is a serious problem and will cause a misfire when the ignition system is running at its highest energy.

MOUNTING

The AEM C²DI Ignition system may be mounted in any position as long as it is not in an enclosed location nor near a large heat source. It may not be mounted directly to the engine nor should it be mounted near or above the exhaust manifold(s).

WIRING

GENERAL WIRING RECOMMENDATIONS

- Solder wire joints for the most trouble-free connections.
- Always run wires away from direct heat and sharp edges.
- A poor ground connection is the leading cause of ignition problems.

- Connect ground wires directly to the negative (-) battery terminal or engine block.
- There must be a ground strap connecting the engine to the chassis.
- If connecting a ground to the engine block, ensure it is a clean, paint free metal surface.

AEM C²DI WIRE FUNCTIONS

There are 3 unterminated wires that exit directly from the CDI case:

RED HEAVY Power INPUT - Connect to the Battery (+) or the positive side of the starter solenoid through a 15A fuse. Do not connect this directly to 12volts without an inline fuse. This should always have 12 volts when the battery is connected.

BLACK HEAVY Ground INPUT - Connect to the Battery (-) or a good chassis ground.

WHITE Tach - Connect to auxiliary tachometer, shift light etc...

I/O Harness connections (1 I/O harness supplied with the 4 channel, 2 harnesses supplied with the 8 channel)

WHITE Ign 1 input - Connect to the Ignition Amplifier or ECU Output of Channel 1.

GREEN Ign 2 input - Connect to the Ignition Amplifier or ECU Output of Channel 2.

YELLOW Ign 3 input - Connect to the Ignition Amplifier or ECU Output of Channel 3.

VIOLET Ign 4 input - Connect to the Ignition Amplifier or ECU Output of Channel 4.

RED (x2) IGP - Connect to a switched +12v source. It should have power ONLY when the ignition switch is turned on.

TAN + 540V - Connects to the positive (+) terminal on coils 1 & 3. This should be the ONLY wire making contact with these terminals. This wire should only connect to coils triggered by Brown or Blue wires (coils 1 & 3). Uses storage capacitor #1

PINK + 540V - Connects to the positive (+) terminal on coils 2 & 4. This should be the ONLY wire making contact with these terminals. This wire should only connect to coils triggered by Orange or Gray wires (coils 2 & 4). Uses storage capacitor #2

BROWN Coil 1 Out - Connects to the negative (-) terminal on Coil 1. This should be the ONLY AEM wire making contact with this terminal.

ORANGE Coil 2 Out - Connects to the negative (-) terminal on Coil 2. This should be the ONLY AEM wire making contact with this terminal.

BLUE Coil 3 Out - Connects to the negative (-) terminal on Coil 3. This should be the ONLY AEM wire making contact with this terminal.

GRAY Coil 4 Out - Connects to the negative (-) terminal on Coil 4. This should be the ONLY AEM wire making contact with this terminal.

8 Channel CDI's have 2 I/O Harnesses. The wiring on both harnesses are the same so the wiring for channels 5-8 are the same as 1-4. Refer to the following typical wiring diagrams for installations on most 4, 6, 8 and 10 cylinder engines.

WIRING INTO A FACTORY IGNITION SYSTEM WITH AN IGNITOR (IGNITION AMPLIFIER)

If you have a service manual or wiring diagram for your car, now is the time to refer to it. If one is not available, follow these steps:

1. Disconnect all the wires leading to the coils.
2. Turn the ignition to the "ON" position.
3. Using a voltmeter, check each wire for 12 volts. Each coil should have 1 wire with 12 volts.
4. If none of the coils have 12 volts, have someone crank the engine while you test for 12 volts.
5. The wire that has 12 volts is the Coil positive (+).
6. Turn Off the ignition switch and connect the I/O Harness RED wire to the factory wiring and the I/O Harness PINK or TAN wire to the positive (+) side of the coil. These two wires are not interchangeable, they must go to their respective channels. Do this on each remaining coil.
7. The remaining wires on the factory wiring loom are the coil trigger wires.
 - o Connect the I/O Harness WHITE wire to the first factory trigger wire and then connect the I/O Harness BROWN Coil (-) wire to the corresponding Coil terminal.
 - o Connect the I/O Harness GREEN wire to the second factory trigger wire and then connect the I/O Harness ORANGE Coil (-) wire to the corresponding Coil terminal.
 - o Connect the I/O Harness YELLOW wire to the third factory trigger wire and then connect the I/O Harness BLUE Coil (-) wire to the corresponding Coil terminal.
 - o Connect the I/O Harness VIOLET wire to the fourth factory trigger wire and then connect the I/O Harness GRAY Coil (-) wire to the corresponding Coil terminal.

VERY IMPORTANT: If you are not using all the coil inputs then you MUST ground the unused trigger input wires. The Tan coil +540v lead can only power coils triggered by the Brown or Blue output wires. The Pink coil +540v lead out can only power coils triggered by the Orange or Gray output wires. Failure to follow these instructions WILL result in a misfire at idle and low engine load as well as erratic spark events that may trigger randomly.

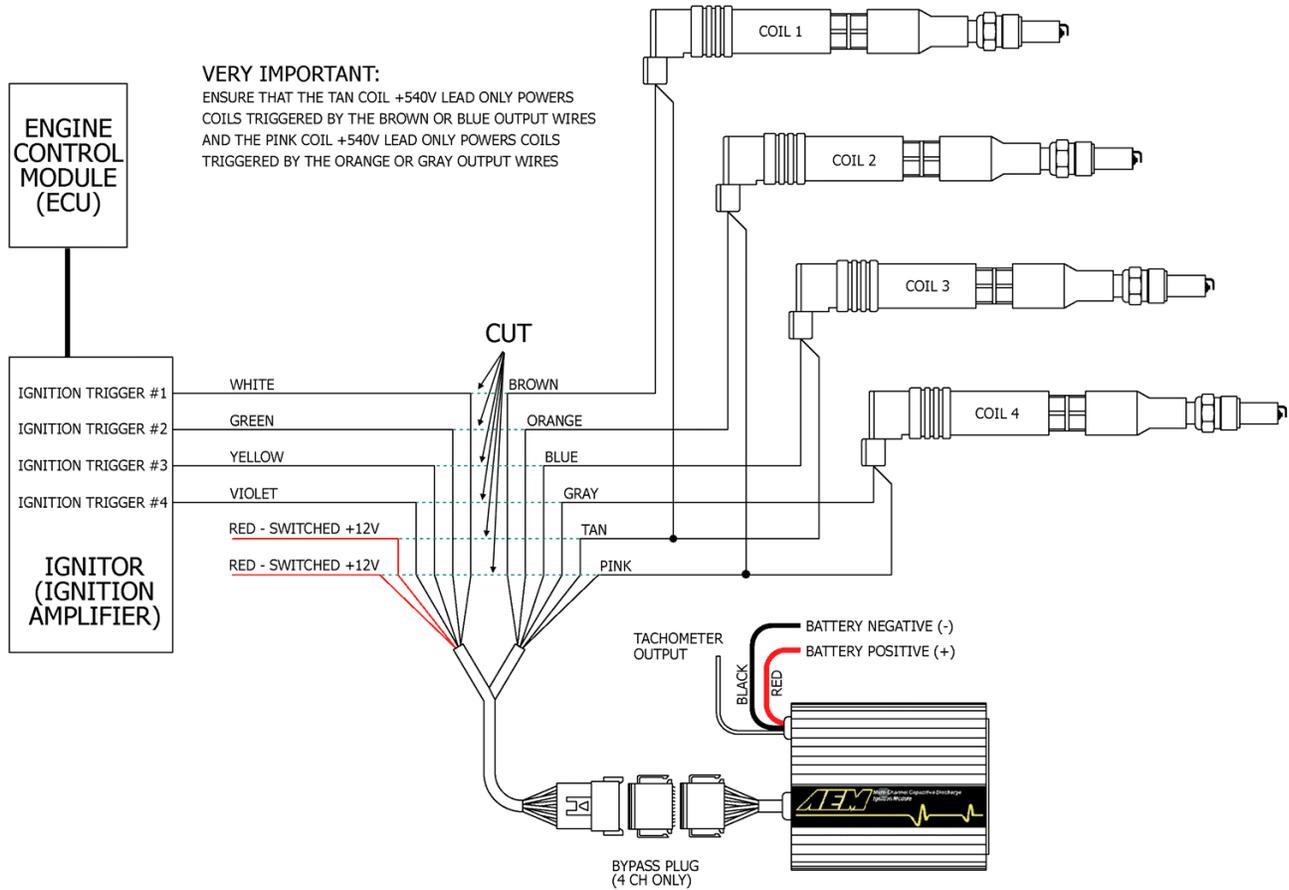
Check your wiring with the diagrams supplied on pages 6-13 and make changes if necessary. To confirm that the wiring has been connected properly, plug in the supplied bypass plug (4 CH only) into the I/O Harness and then start the engine. If the engine does not start or does not run properly then there is a wiring problem. Recheck all of your wiring.

The only wires that should be going to your coils are the BROWN, ORANGE, BLUE, GREY, PINK and TAN wires. Do not hook any other wires to the coil. The Red wires connect to a 12 volt battery source that deactivates when the key is turned off. This turns the C²DI On and Off with the vehicles ignition switch.

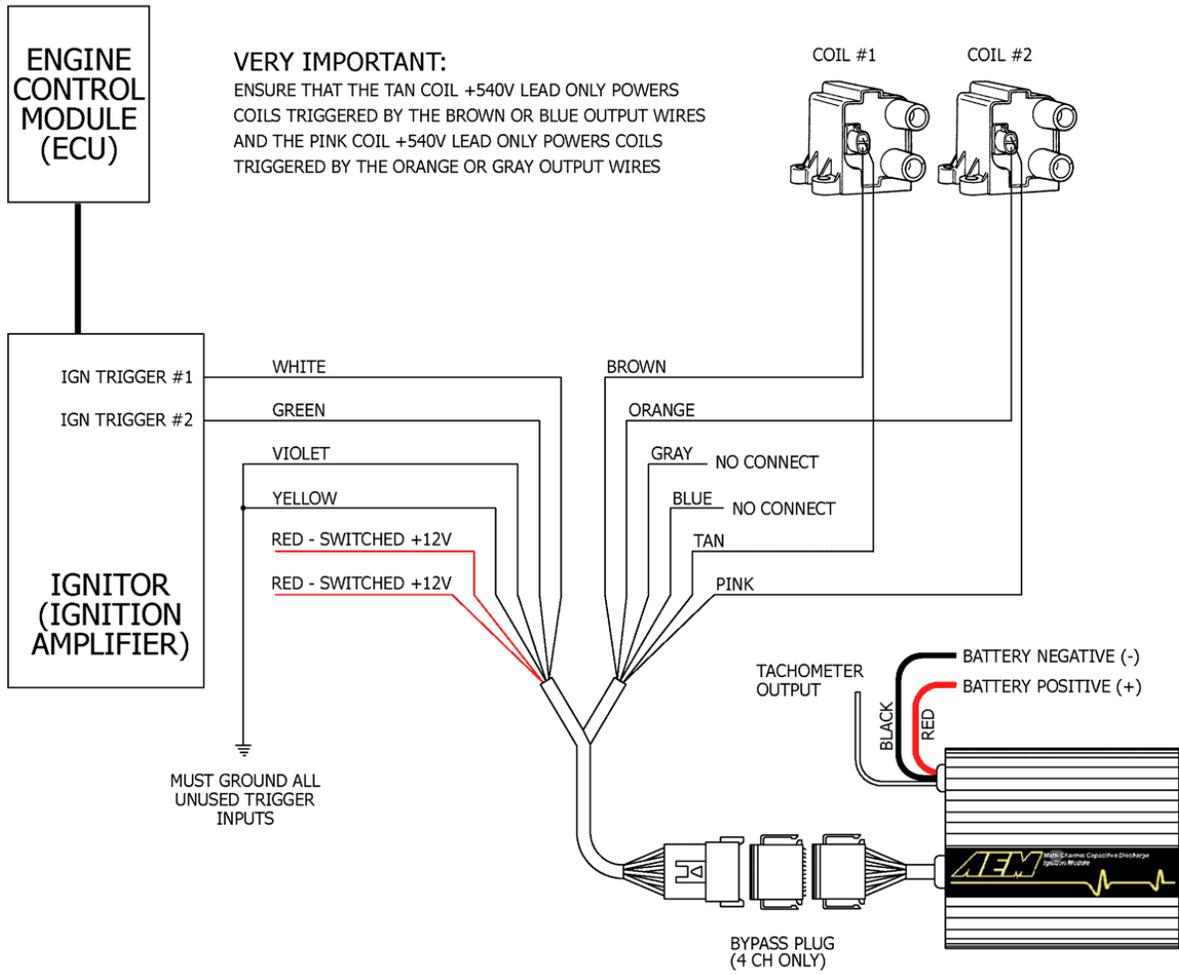
Now it is safe to connect the large Red wire to battery positive (+) and the large Black wire to battery ground negative.

WIRING DIAGRAMS

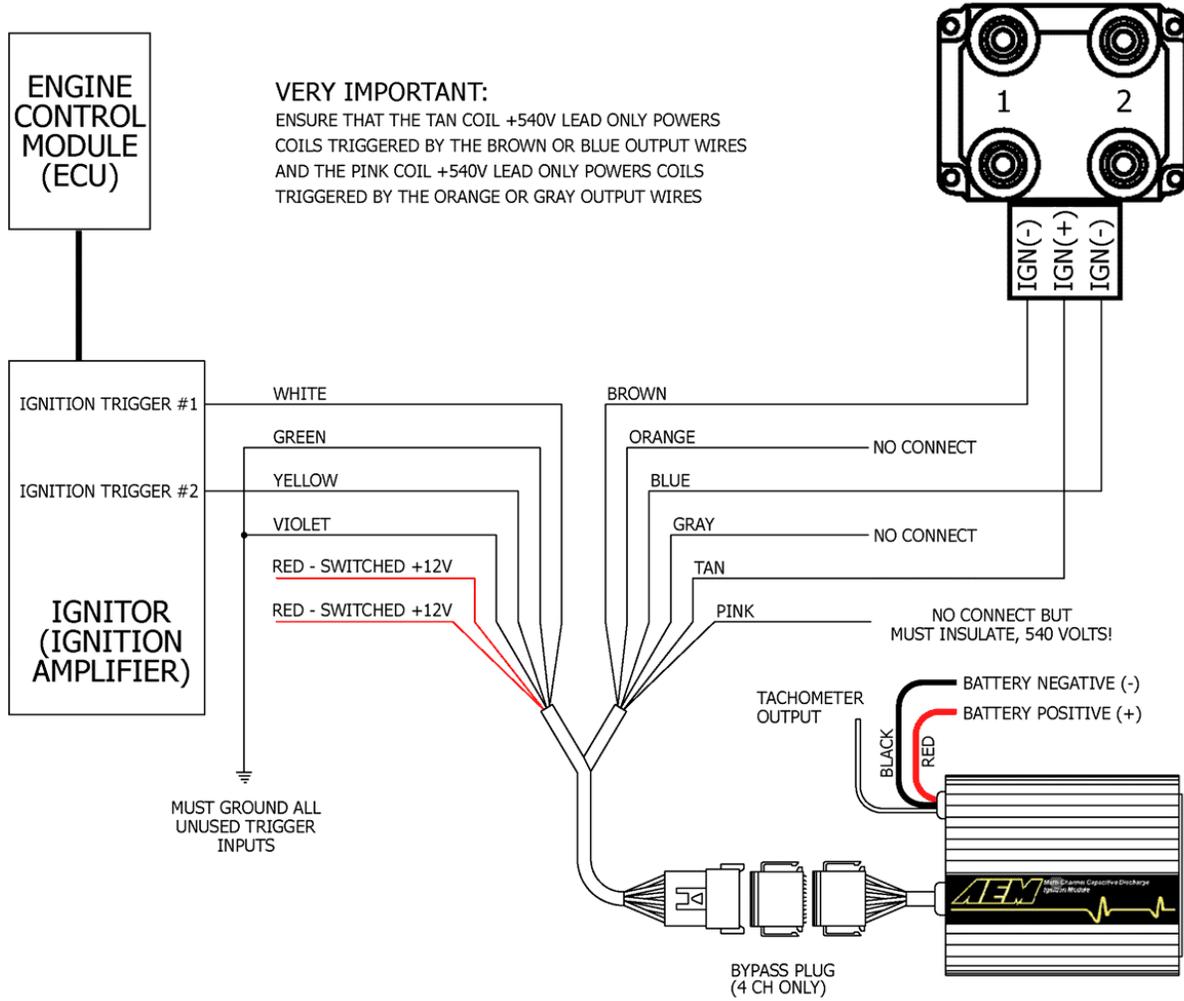
See the following wiring diagrams for installations on different vehicles and applications. If you experience difficulties when installing your AEM C²DI system, call our Performance Electronics Help desk at (310) 484-2322 x303 Monday - Friday, 8am - 5pm pacific standard time.



Typical 4 Cylinder COP (coil on plug) with an external ignitor (4 channel CDI)

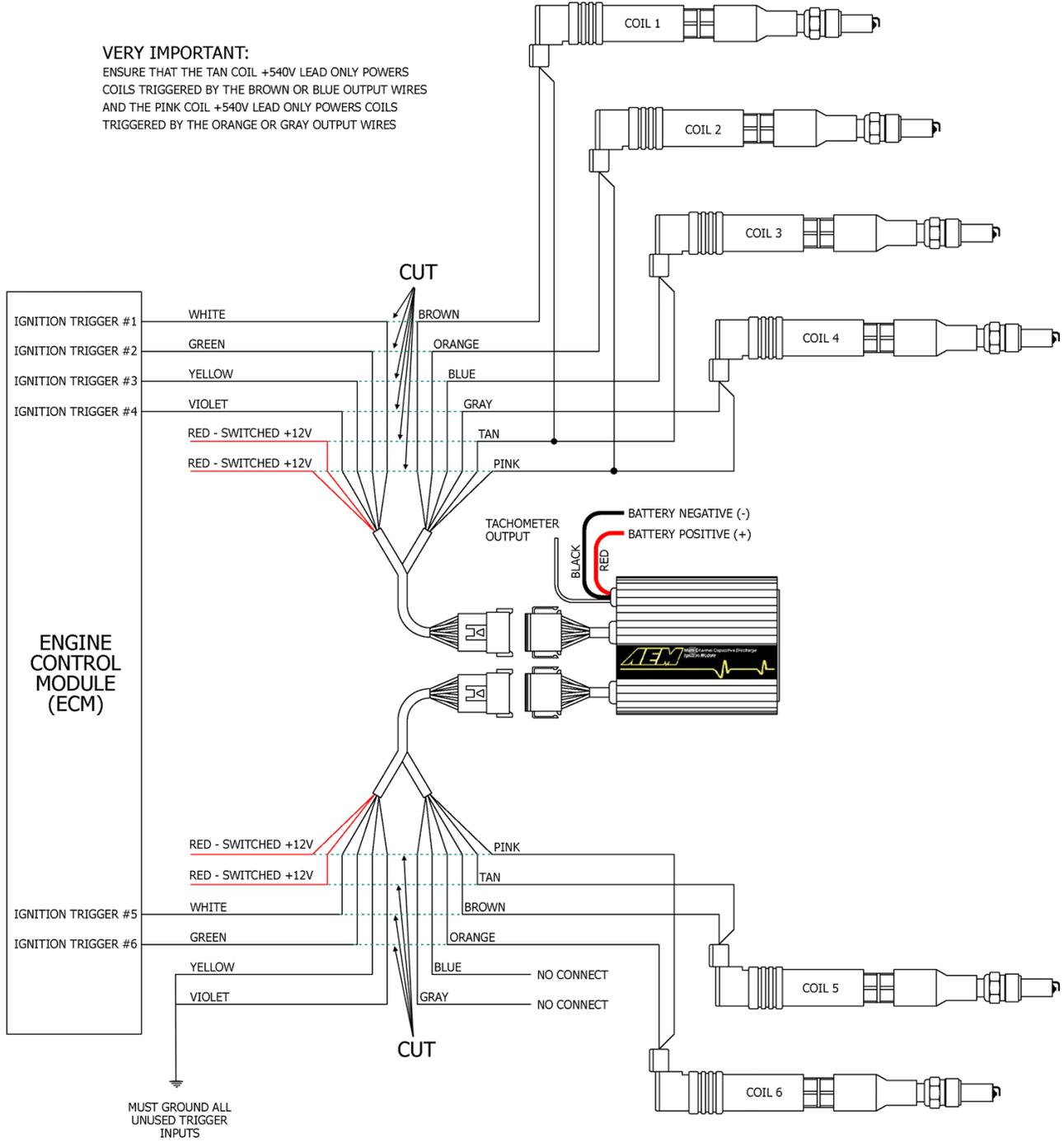


Typical 4 Cylinder with 2 double ended coils and an external ignitor (4 channel CDI)



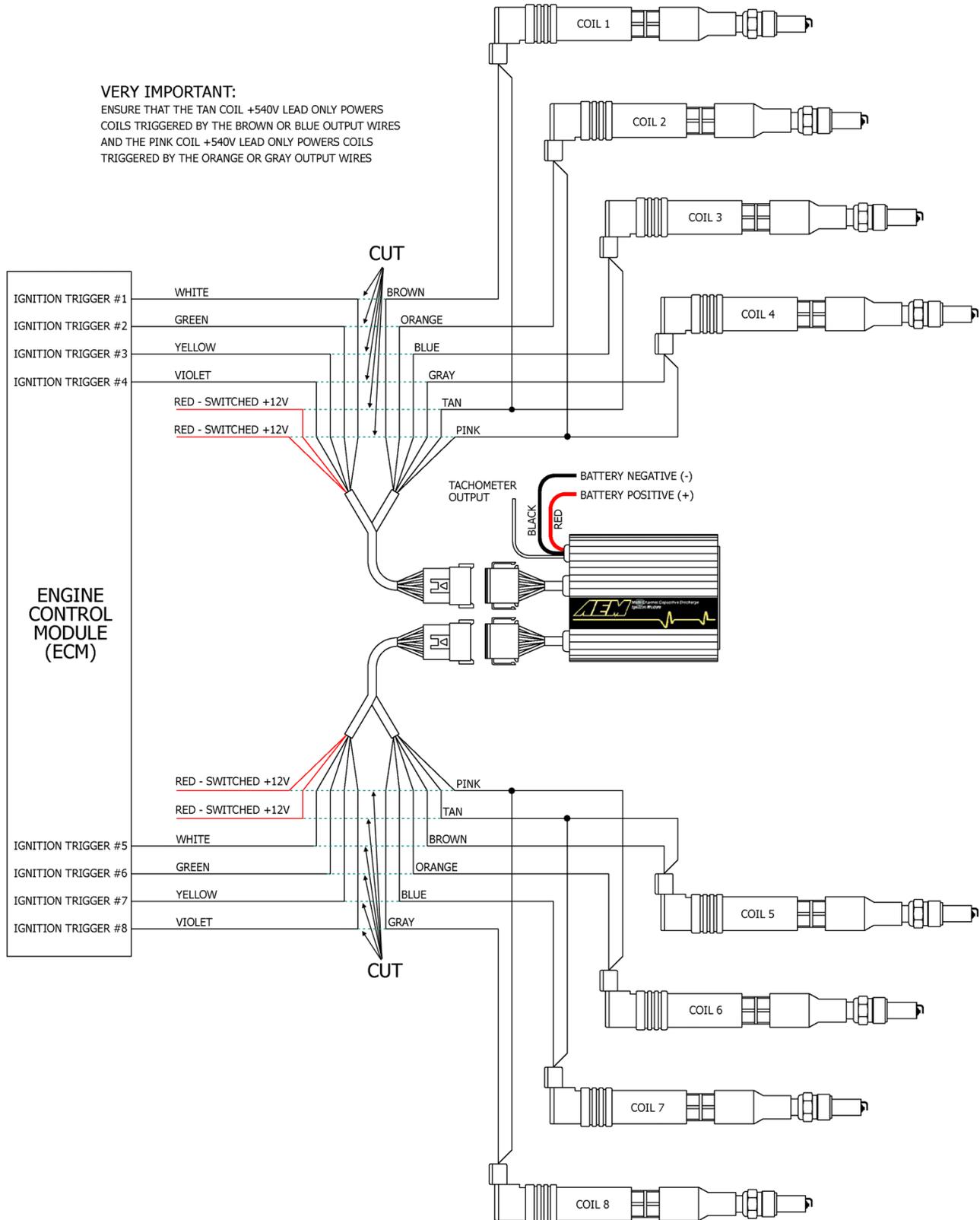
Typical 4 Cylinder with a coil pack and an external ignitor (4 channel CDI)

VERY IMPORTANT:
 ENSURE THAT THE TAN COIL +540V LEAD ONLY POWERS
 COILS TRIGGERED BY THE BROWN OR BLUE OUTPUT WIRES
 AND THE PINK COIL +540V LEAD ONLY POWERS COILS
 TRIGGERED BY THE ORANGE OR GRAY OUTPUT WIRES

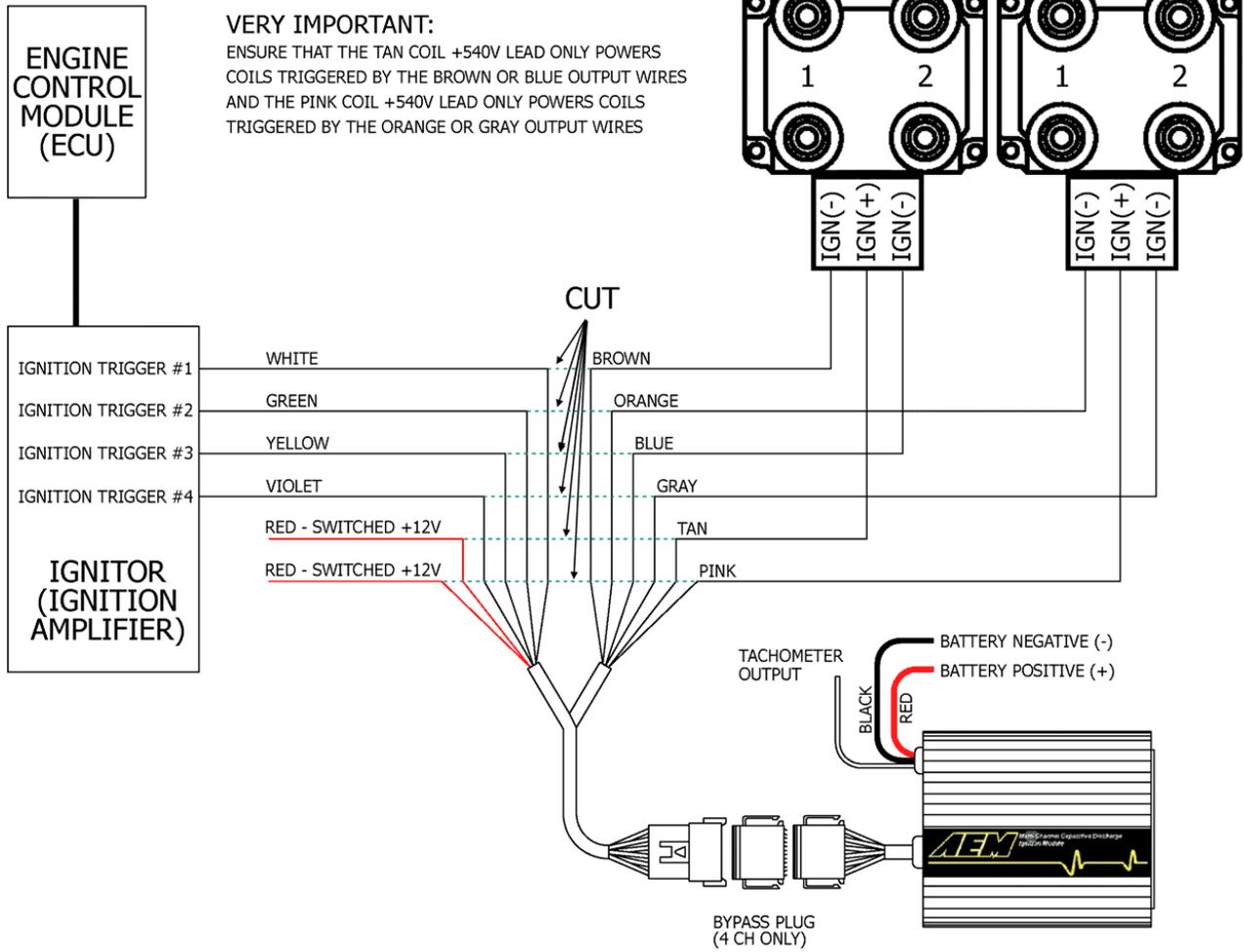


Typical 6 Cyl COP wired direct to an ECU without an external Ignitor (8 channel CDI)

VERY IMPORTANT:
 ENSURE THAT THE TAN COIL +540V LEAD ONLY POWERS
 COILS TRIGGERED BY THE BROWN OR BLUE OUTPUT WIRES
 AND THE PINK COIL +540V LEAD ONLY POWERS COILS
 TRIGGERED BY THE ORANGE OR GRAY OUTPUT WIRES

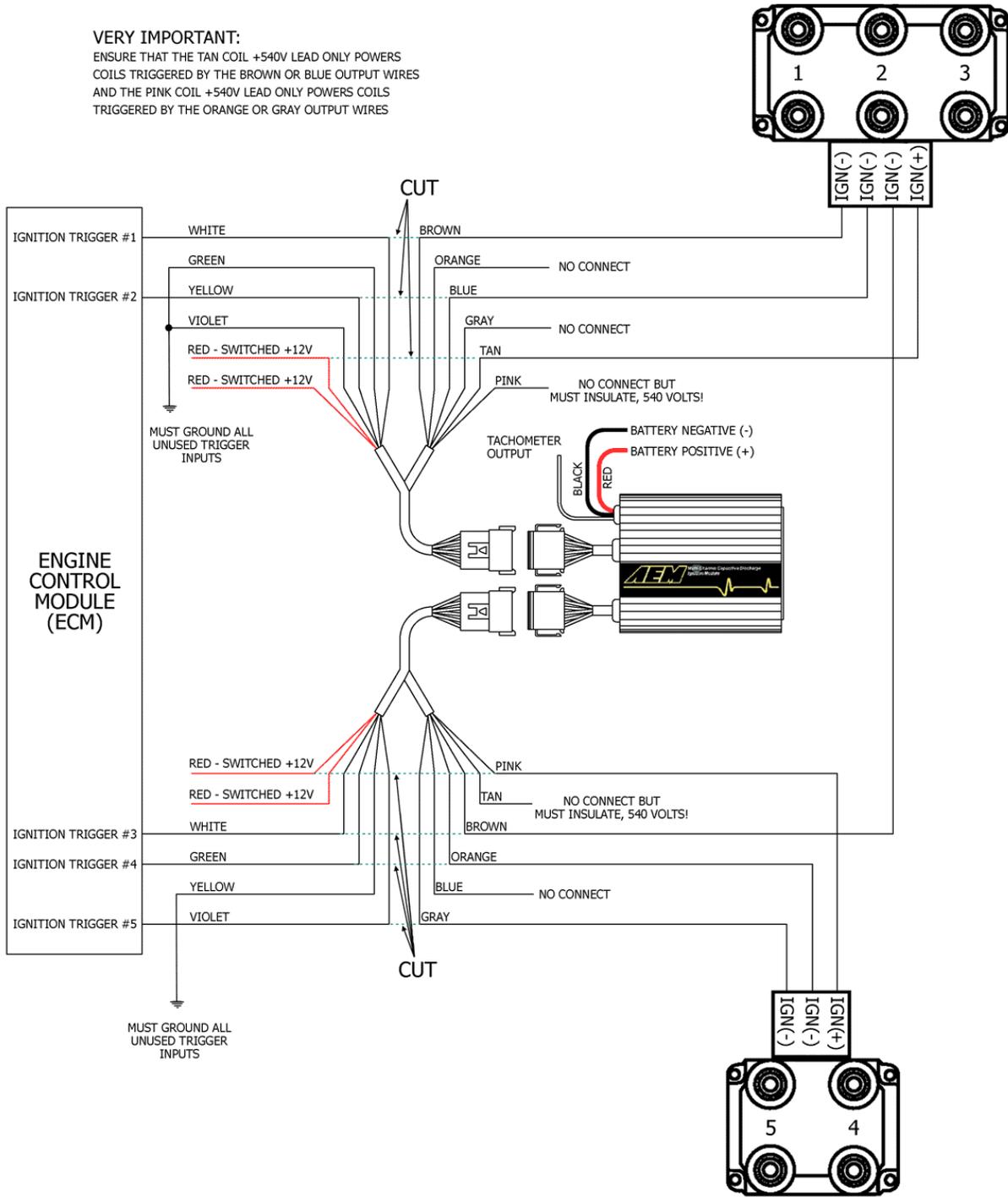


8 Cylinder COP wired direct to an ECU without an external Ignitor (8 channel CDI)

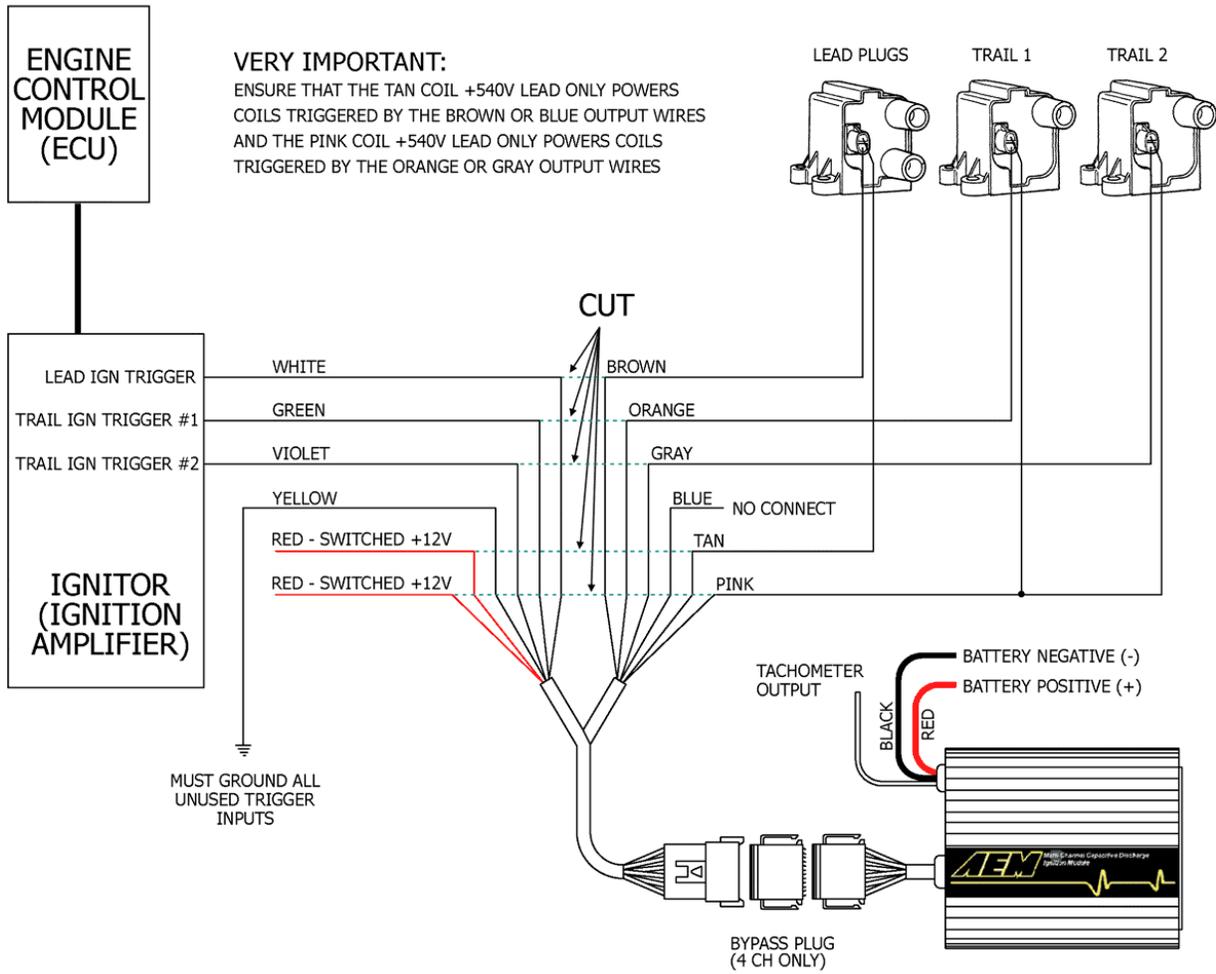


8 Cylinder wasted spark without an external Ignitor (4 channel CDI)

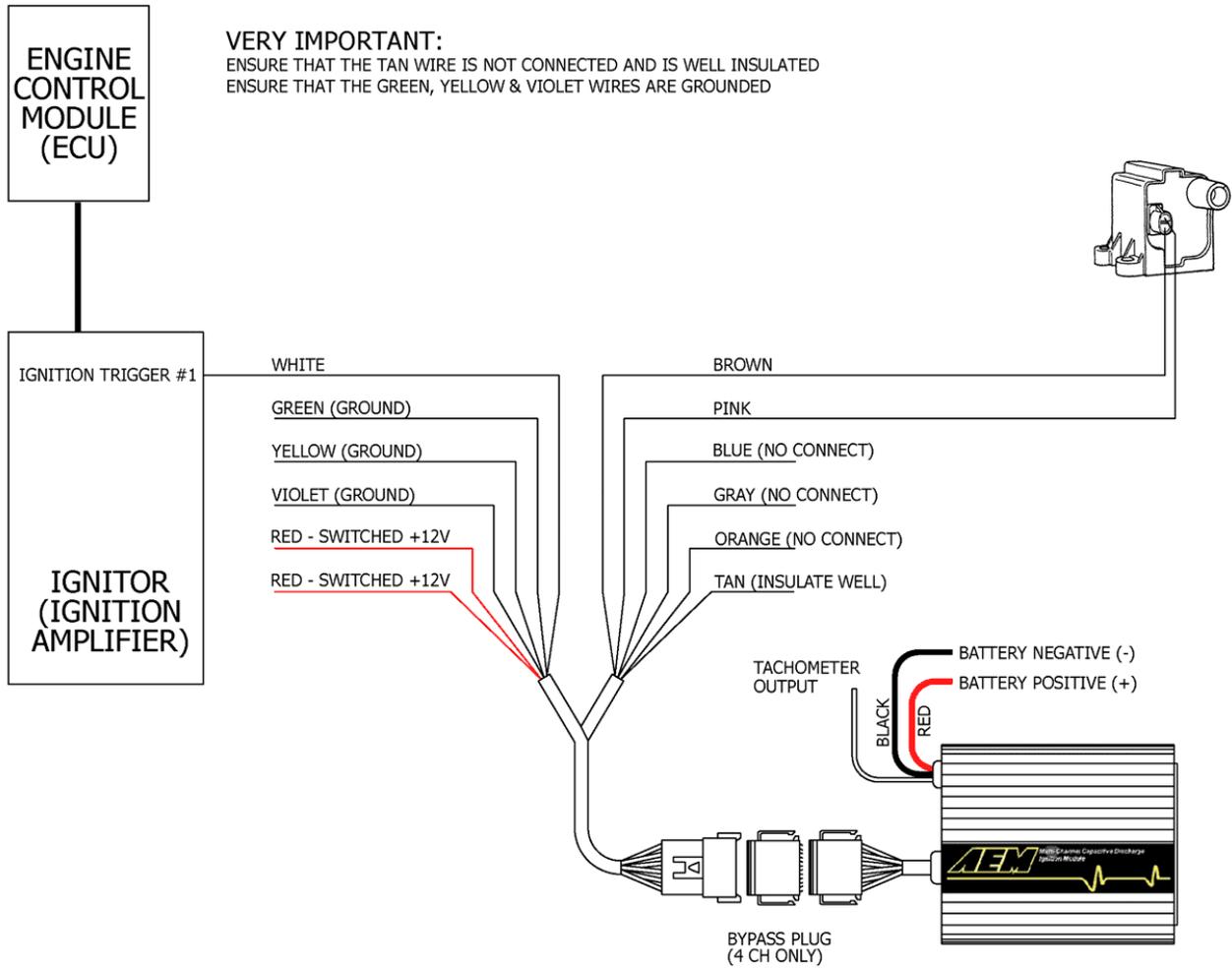
VERY IMPORTANT:
 ENSURE THAT THE TAN COIL +540V LEAD ONLY POWERS
 COILS TRIGGERED BY THE BROWN OR BLUE OUTPUT WIRES
 AND THE PINK COIL +540V LEAD ONLY POWERS COILS
 TRIGGERED BY THE ORANGE OR GRAY OUTPUT WIRES



10 Cylinder wasted spark without an external Ignitor (8 channel CDI)



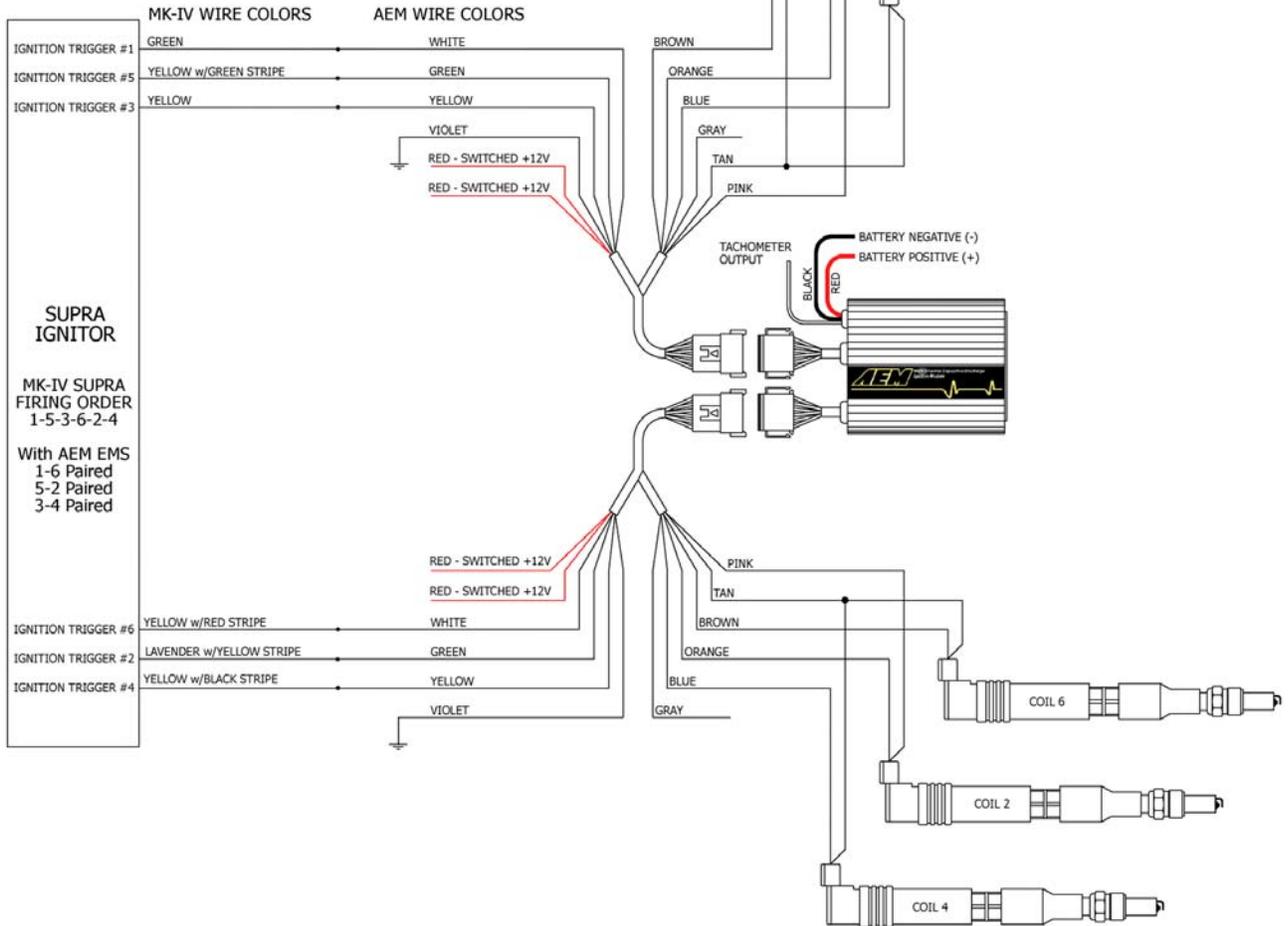
Rotary engine with wasted spark lead, direct ignition trail with an external Ignitor (4 channel CDI)



Distributed engine with a single coil and an external Ignitor (4 channel CDI)

MK-IV SUPRA WITH AEM EMS

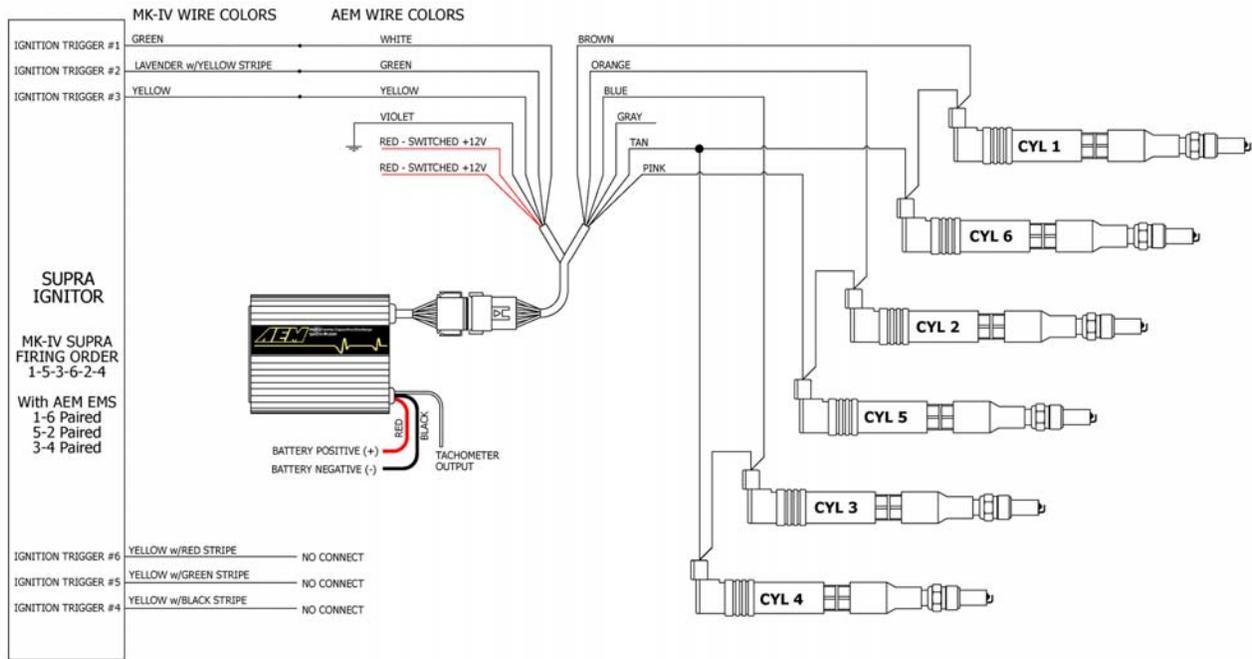
VERY IMPORTANT:
 ENSURE THAT THE TAN COIL +540V LEAD ONLY POWERS COILS TRIGGERED BY THE BROWN OR BLUE OUTPUT WIRES
 AND THE PINK COIL +540V LEAD ONLY POWERS COILS TRIGGERED BY THE ORANGE OR GRAY OUTPUT WIRES



MK-IV Toyota Supra (wasted spark w/COP) and an external Ignitor (8 channel CDI)

MK-IV SUPRA WITH AEM EMS

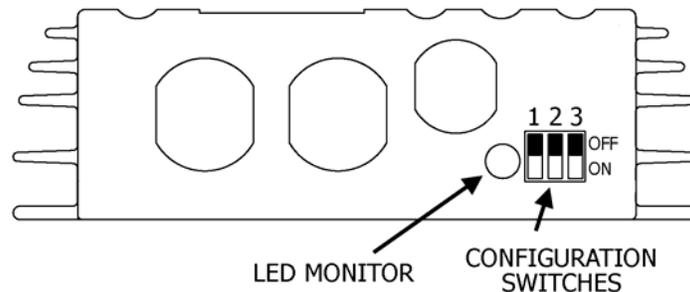
VERY IMPORTANT:
 ENSURE THAT THE TAN COIL +540V LEAD ONLY POWERS COILS TRIGGERED BY THE BROWN OR BLUE OUTPUT WIRES
 AND THE PINK COIL +540V LEAD ONLY POWERS COILS TRIGGERED BY THE ORANGE OR GRAY OUTPUT WIRES



MK-IV Toyota Supra (wasted spark w/COP) and an external Ignitor (4 channel CDI)

SETTING UP THE C²DI IGNITION SYSTEM

The AEM C²DI Ignition system has several setup options which allow you to customize the ignition to meet your specific requirements. Three switches are located on the end panel and allow you to set these options. The AEM C²DI Ignition systems are pre-programmed before leaving the factory for proper operation on most 4, 6, and 8-cylinder engines equipped with a distributorless ignition system and the C²DI wired after the ignition amplifier.



Below is a list of the C²DI Ignition systems programmable features.

Switch 1 Multi-Strike Disable – S1 enables or disables multi-strike spark plug firings. Disabling Multi-strike (S1 – On) makes engine timing much easier to check. Enabling Multi-strike (S1 – Off, Default) makes the engine run smoother at low speeds.

Switch 2 Trigger Edge – S2 sets the input trigger edge that the C²DI uses to trigger the spark plug firing. Rising edge (S2 - Off - Default) is used when the C²DI is wired in AFTER the ignitor (Ignition Amplifier) or if the ignition did not have an external ignitor and there is not one inside the coils. Falling edge (S2 – On) is used when the C²DI is wired directly to the ECU and the Ignition trigger is a digital signal with high signifying dwell time.

Switch 3 Wasted Spark – S3 programs the ignition for use on engines equipped with a single coil per cylinder (720 firing S3 - On), or dual output coil feeding 2 cylinders (360 firing S3 - Off - Default).

PRESTART CHECK LIST

- The only wires that should be going to your coil (-) terminal are Brown, Orange, Blue and Grey.
- The only wires going to the coil positive (+) terminals are Pink or Tan.
- The only wires connected to the factory harness wires (inputs) are the White, Green, Yellow, Violet.
- The small Red wire of the C²DI is connected to a switched 12 volt source (factory harness).
- The AEM power leads are connected directly to the battery positive and negative terminals.
- The battery is connected and fully charged.
- The engine is equipped with a good ground strap to the chassis.
- CDI Switches properly set.

You can now remove the bypass plug and plug in the AEM C²DI Ignition system into the harness. Start the engine to verify the engine timing is correct and that all functions are operating.

WARNING: The AEM C²DI system generates high voltage when power is supplied, this voltage is always present when the unit is on even if the engine is not running. Improper handling may cause shock or even death. **This is NOT a hollow warning. Whenever the key is turned on, the primary coil (+) terminal is charged to 500+ volts! Do not touch the coil or connect test equipment to the terminals.**

TROUBLESHOOTING

Every AEM C²DI Ignition system undergoes multiple quality checks including an 8 hour high power burn-in. If you are having a problem with your C²DI, it is likely due to improper installation or wiring. Please refer to the following while troubleshooting your installation before calling AEM's Performance Electronics Help desk.

ENGINE MISFIRES

An engine misfire at higher rpm is not usually due to the ignition. Most of the time it is due to a coil or plug wire problem allowing arcing to take place between the plug boot to ground:

- Check the positive and negative coil connections.
- Verify that all unused ignition trigger inputs are grounded.
- Ensure that the Tan coil +540v lead out only powers coils triggered by the Brown or Blue output wires.
- Ensure that the Pink coil +540v lead out only powers coils triggered by the Orange or Gray output wires.
- Check the condition of the plug wires with extra attention given to the ends. Check for a tight connection and look for cuts, abrasions or obvious signs of burning.
- **WARNING: There will be a very high voltage at the coil positive (+) terminal whenever the key is turned on. Do not probe these terminals!**
- **WARNING: Do not touch the coil terminals during cranking or while the engine is running. A severe shock will result.**

CHECKING FOR SPARK

Use the following procedure to determine if the ignition is producing a spark.

1. Verify that the ignition switch is "Off".
2. Set the "Trigger Edge – S2" switch to a rising edge trigger.
3. Remove the spark plugs and wires from the engine. With the plugs inserted in the end of the plug wires, lay the spark plugs against a good ground.
4. Disconnect the trigger wire (White, Green, Yellow & Violet) from the factory harness.
5. Turn the ignition to the On position. **Do not crank the engine.**
6. Tap a trigger wire to a good ground. Each time you pull the wire from ground, a spark should jump cross a spark plug. If a spark is present on all connected channels then the ignition is working properly.

7. If there is no spark:
 - A. Check all of the wiring.
 - B. Change coils, wires and spark plugs and repeat the test. If there is a spark now, one of those components was at fault.
 - C. If there is still no spark, then verify that there is 12 volts on the small RED wire from the AEM C²DI when the key is "On" or while the engine is cranking. If 12 volts is not present, then you have to find a switched 12 volt source for this lead and do the test again.
 - D. If after following all of these troubleshooting procedures and verifying 100% of the wiring there is still no spark, then the Ignition needs repair. See the AEM C²DI Warranty and component Service section below for instructions.

FREQUENTLY ASKED IGNITION QUESTIONS

1. What's the difference between a Twin Capacitive Discharge (C²DI), regular Capacitive Discharge (CDI) and a stock ignition system?

The majority of stock ignitions are inductive ignitions. CDI's produce a fast, high-energy pulse that is applied to the ignition coil that is over 500 volts and up to 30 amps. A standard inductive ignition system typically produces 250 volts on the coil primary. This higher voltage is what allows the coil to produce a much higher spark voltage. A typical ignition coil (1:100 turns ratio) with an inductive ignition will produce about 25,000 volts to the spark plug but using the AEM CDI with the same coil will produce 50,000 volts or more at the spark plug. A regular CD ignition can produce full power sparks as long as the capacitor has time to recharge. Typically, this is more than enough for most engines. However, if you attempt to trigger multiple sparks in quick succession, you will reach it's inherent time limitation. This is due to the fact that the typical CD ignition has a single storage capacitor. While this cap is recharging or discharging, another full power spark is not possible. You must wait. AEM's patent pending multi-cap technology has been designed into the C²DI ignition system. It has 2 independent storage capacitors. They can charge, fire and recharge simultaneously. This means you can have 2 full power sparks in any relationship to each other, including at virtually the same time. This means more ignition power at higher RPM on even fire engines, odd fire engines and even on twin plug combustion chambers, allowing for leading and trailing ignition maps without limitation! This ability to generate full power sparks regardless of engine RPM is why you will benefit with a C²DI ignition. With complete combustion regardless of boost level, instantaneous throttle response, smoother idle, easier starts and reduced plug fouling you can't help but win. While all engines will realize this benefit, heavily modded engines will gain the most from this type of ignition setup.

2. How do I know which wires come from each storage capacitor?

The +540v outputs from the 2 storage caps are the PINK and TAN wires. The TAN wire is for channels 1 & 3 and the PINK is for channels 2 & 4. These are not interchangeable. If these are hooked up wrong (example: PINK +540 to BROWN CH 1 trigger) then misfires and extra sparks will occur. Do not do this!.

3. What is the best spark plug gap for my application?

Since there are so many engine combinations and manufacturers, AEM cannot recommend which gap is exactly right for your application. Insufficient spark plug gap can cause pre-ignition, detonation, even engine damage. Too much gap can result in a higher rate of misfires, noticeable loss of power, plug fouling, and poor economy.

When you raise the compression ratio or add forced induction (a turbo system, nitrous, or supercharger kit), you must lower the gap (reduce gap about .004" for every 50 hp you add). However, when you add a high power ignition system (such as the Spark1) you can open the gap back up about .002"-.005".

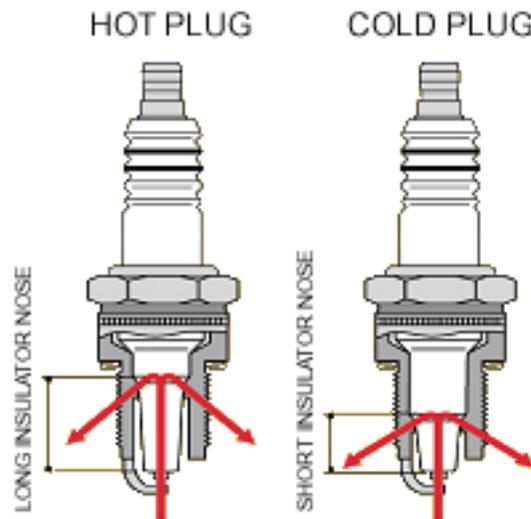
As an example, let's use a hypothetical '93 350 Chevrolet LT1 engine build-up...standard gap is .050" for an unmodified LT1. We'll add 150hp Nitrous, so we must lower the gap about .012" to .038". We then decide to add the Spark1 and, using our guidelines as outlined above, we can now open the gap up .002"-.005" to about .040"- .043".....following this basic guideline should get you very close. Further experimentation may be necessary, but by starting with a larger gap than thought necessary to reduce the risk of detonation, you should be safe. Other issues that may require a smaller gap are if the plug boot does not fit snug over the plug. If you

pull the plugs and see black streaks that will not wipe off where the plug boot sits then you have flashover. This will also show up as misfires under high boost conditions. If you have this problem in addition to lowering the plug gap you can use a silicon dielectric grease in the boot.

4. What heat range should I use for my spark plugs?

The heat range refers to how much heat a spark plug is capable of removing from the combustion chamber. When compression is raised, along with the added power comes added heat. Since spark plugs must remove heat and a modified engine makes more heat, the spark plug must remove more heat. A colder heat range spark plug must be selected, and spark plug gaps should be adjusted smaller to ensure proper ignitability in this denser air/fuel mixture.

Selecting a spark plug with the proper heat range will ensure that the tip will maintain a temperature high enough to prevent fouling, yet be cool enough to prevent pre-ignition. While there are many other things that can cause pre-ignition, selecting the proper heat range spark plug will ensure that the spark plug itself is not a hot-spot source. As a rule of thumb, every time you increase the compression ratio by one point, or for every 75-100 hp you add, go at least one step colder. Remember, it is better to go colder than is thought necessary. The worst that can happen in this scenario is that the plugs will foul out. If you inadvertently select a heat range that is too hot, the resulting pre-ignition and detonation can cause serious engine damage.



12 MONTH LIMITED WARRANTY

Advanced Engine Management Inc. warrants to the consumer that all AEM High Performance products will be free from defects in material and workmanship for a period of twelve (12) months from date of the original purchase. Products that fail within this 12 month warranty period will be repaired or replaced at AEM's option, when determined by AEM that the product failed due to defects in material or workmanship. This warranty is limited to the repair or replacement of the AEM part. In no event shall this warranty exceed the original purchase price of the AEM part nor shall AEM be responsible for special, incidental or consequential damages or cost incurred due to the failure of this product. Warranty claims to AEM must be transportation prepaid and accompanied with dated proof of purchase. This warranty applies only to the original purchaser of product and is non-transferable. All implied warranties shall be limited in duration to the said 12 month warranty period. Improper use or installation, accident, abuse, unauthorized repairs or alterations voids this warranty. AEM disclaims any liability for consequential damages due to breach of any written or implied warranty on all products manufactured by AEM. Warranty returns will only be accepted by AEM when accompanied by a valid Return Goods Authorization (RGA) number. Credit for defective products will be issued pending inspection. Product must be received by AEM within 30 days of the date that the RGA is issued.

Please note that before we can issue an RGA for an AEM Electronic Component, it is first necessary for the installer or end user to contact our Performance Electronics Help Desk at 1-310-484-2322 x303 to discuss the problem. Most issues can be solved over the phone. Under no circumstances should a system be returned or an RGA requested before the above process transpires.