

HYFIRE® VII PRO CD IGNITION CONTROLS INSTALLATION INSTRUCTIONS

Part No. 667, Universal 8-Cylinder Part No. 667-6, Universal 6-Cylinder

Notice: This product is legal to sell, distribute or install on vehicles in California. Executive Order D-70-6.

NOTE: The HYFIRE® VII Pro CD Ignition Controls are not compatible with distributorless systems or positive ground applications. The RPM Limiter in the HYFIRE® VII Pro CD Ignition Controls will not work properly with odd-fire or semi-even fire V6 applications.

GENERAL INFORMATION

The HYFIRE® VII Ignition System is not for marine use.

The RPM limiter in the HYFIRE® VII Ignition System is not recommended as an engine speed governor. The use of the RPM limiters is not recommended for applications equipped with a catalytic converter. Similarly, forcing engine RPM past the RPM limiter continuously for long sustained intervals can cause problems resulting from fuel build up in the exhaust system that may adversely affect the application. The RPM limiting systems will not work properly with odd-fire V6 applications.

Ignition Ballast Resistor / Loom Resistance Wire:

The HYFIRE® VII Ignition Ignition's performance is not affected by the presence of the factory ignition resistors or ignition ballast resistors in the wire from the ignition switch. It is not necessary to install ignition ballast resistors as specified by the instructions for the particular distributor.

Ignition Coils:

The HYFIRE® VII Ignition Systems is designed to work with Mailory PROMASTER® Coil Part No. 28880. Avoid using any other type of ignition coil.

Spark Plug Wires:

YOU MUST USE suppression type (carbon core; spiral core; suppression core) spark plug wire. We recommend spiral core ignition wire, such as Mailory PRO SIDEWINDER® Ignition Wire. Suppression type spark plug wires prevent false triggering and the possibility of premature ignition or accessory failures.

DO NOT USE solid core (copper core; stainless steel core) spark plug wire with any electronic ignition system or accessory. Solid core spark plug wire is one cause of electro-magnetic interference (EMI; ignition noise). EMI is one cause of false triggering (preignition; spark scatter) and premature ignition or accessory failures.

Spark Plug Gaps:

For street applications, use your engine manufacturer's specifications. For racing applications, start with your engine manufacturer's specifications, then experiment with and closely monitor vanous gaps to achieve maximum performance.

Electric Welding:

Disconnect the HYFIRE® VII Ignition System and unplug any distributor harmesses (if possible) before any welding is done on the vehicle.

External RPM Limiters:

- Mallory RPM Limiter Part Nos. 641-4, 641-6, 641-8, 642, 543 and 644 WILL NOT function with the HYFIRE® VII Ignition Systems.
- Mailory PRO TACH® Tachometer Part Nos. 657, 662 and 681 proportional controller that limit RPM WILL NOT function with the HYFIRE® VII Ignition Systems. Turn the LIMIT RPM knob slightly past 11,000 to prevent the RPM limiter from interfering with the tachometer's other functions.
- The Mallory HYFIRE® IV RPM Limiting Adapter Part No. 619L WILL NOT function with the HYFIRE® VII Ignition Systems.
- The Mailory HYFIRE® Staging Control Part Nos. 638, 638SP, 639 and 639SP are RPM limiters that function with the HYFIRE® VII Ignition Systems. These are RPM limiters for burnout, staging and starting line purposes while waiting for the green light.

Mailory PRO TACH® I, IV and IV:

The tachometer RPM tracking needle and shift light will work with the HYFIRE® VII Ignition Systems. However, the tachometer's proportional controller that limits RPM WILL NOT function with the HYFIRE® VII Ignition Systems. Turn the LIMIT RPM knob slightly past 11,000 to prevent the RPM limiter from interfering with the tachometer's other functions.

MOUNTING PROCEDURE

Disconnect the pattery (-) cable to cut power to the system.

Step 2

Select a convenient location to mount the HYFIRE'S VII lonition System. Keep the unit away from hot engine components or extreme heat such as the exhaust system and manifolds. Keep the unit away from moving devices, such as fans, belts and linkages. The location must be dry. Moisture will damage components inside the unit.

Step 3. Mounting to a flat surface with shock mounts

- Hold the unit in its mounting position and center punch the mounting pattern on the mounting surface for drilling mounting holes. Onll mounting holes using a 9/32" dnll bit.
- Install the shock mounts into the bottom plate of the unit. Hold the unit in position where it will be mounted.
- From the backside of the mounting surface, insert the washers and the 1/4-20 hylock nuts onto the shock mount studs. Tighten each nut until shug.

WIRING PROCEDURE

Ensure that your vehicle is equipped with a ground cable between the engine block and firewall (10 gauge or larger is required). Refer to Figure 1 while performing the following steps.

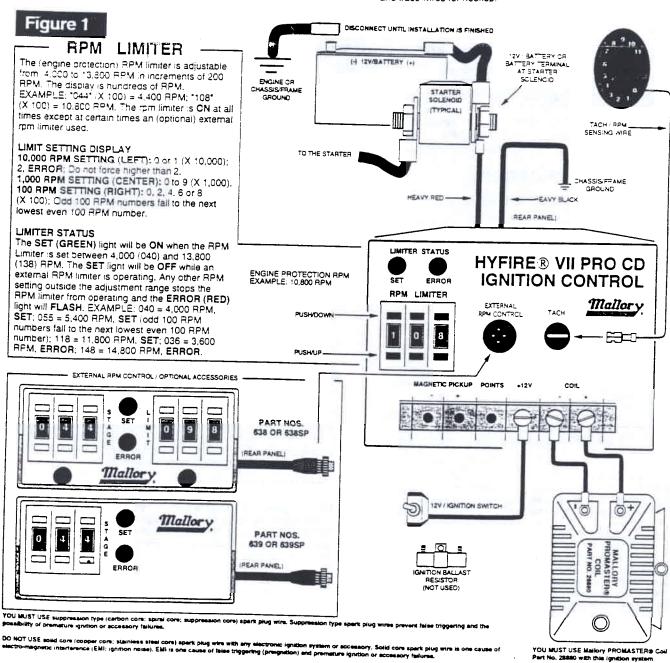
- Connect the HEAVY RED wire to the 12-voit battery (+) post or battery (+) terminal on the starter solenoid.
- Connect the HEAVY BLACK wire to chassis/frame ground.
- Connect wires between the COIL (+) and (-) terminals.
- Connect 12-volts from ignition switch to the +12V terminal.
- Connect the tach/RPM sensing wire and optional external RPM control to sockets.

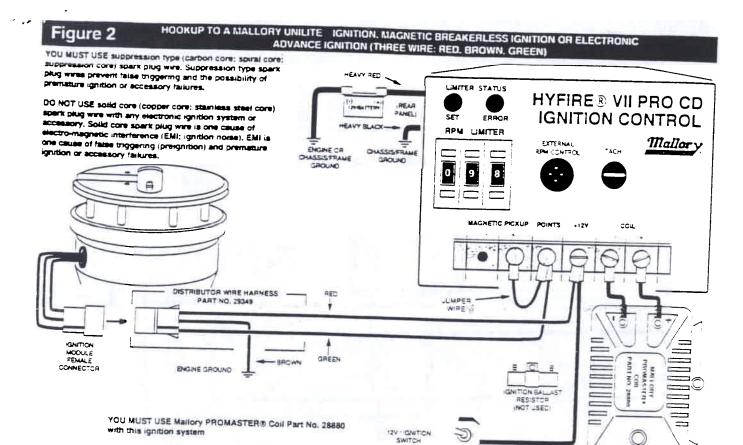
Step 2

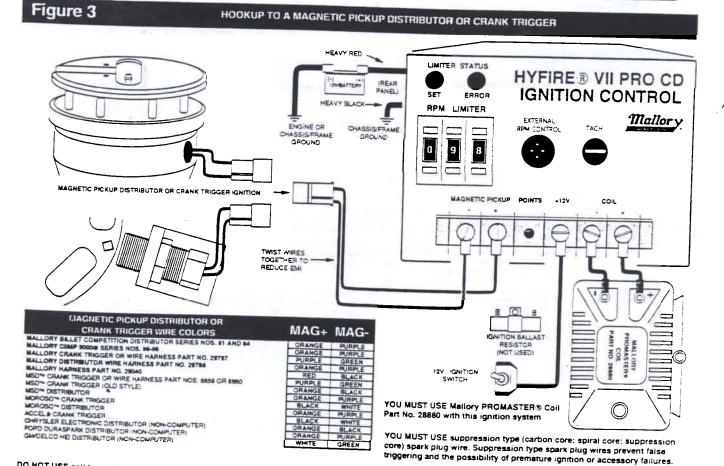
Choose one method listed below for winng the unit. Follow steps outfined in the corresponding sections.

- Winng to an electronic ignition or magnetic pickup. Refer to Figures 2 and 3, and trace wires for hookup.
- Winng to other timing accessones. Refer to Figures 4, 5, 6 and 7, and trace wires for hookup.

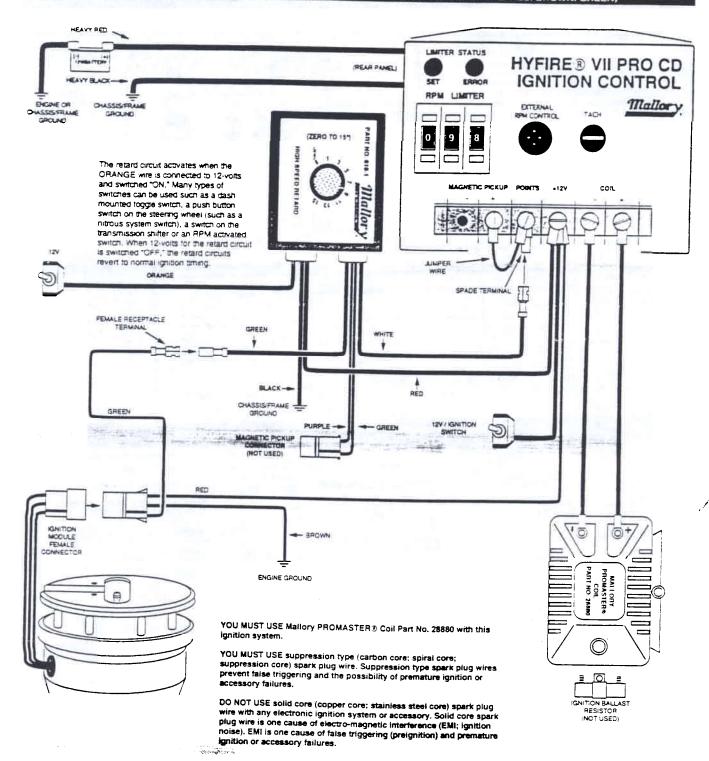
YOU MUST USE Mailory PROMASTER® Coil

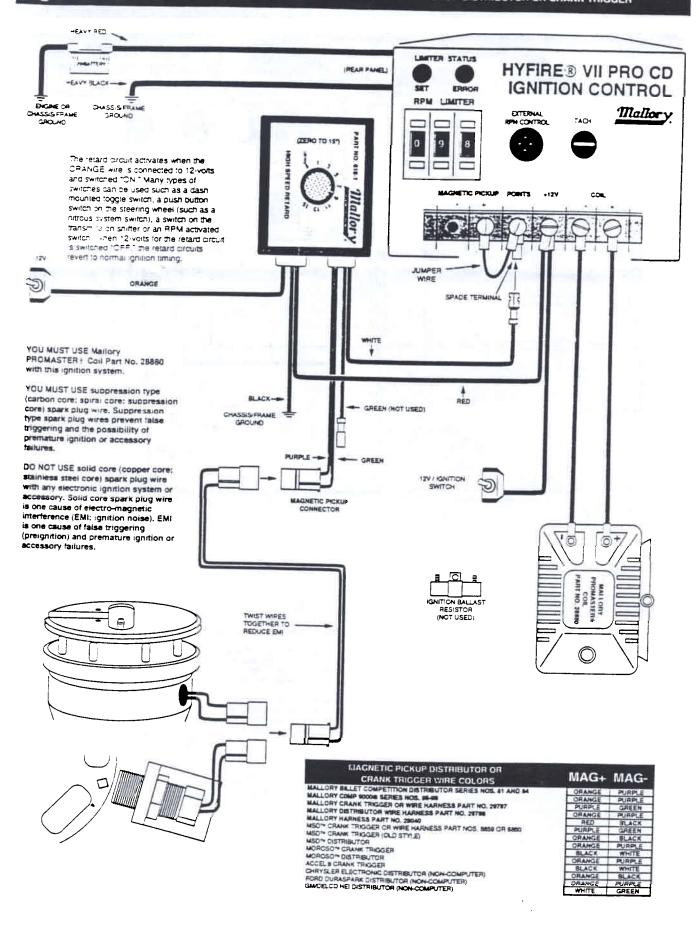


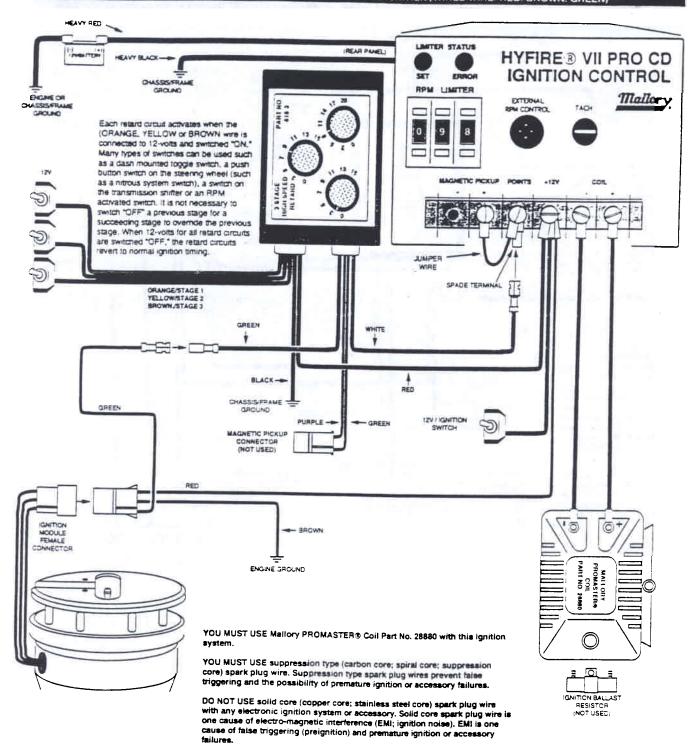


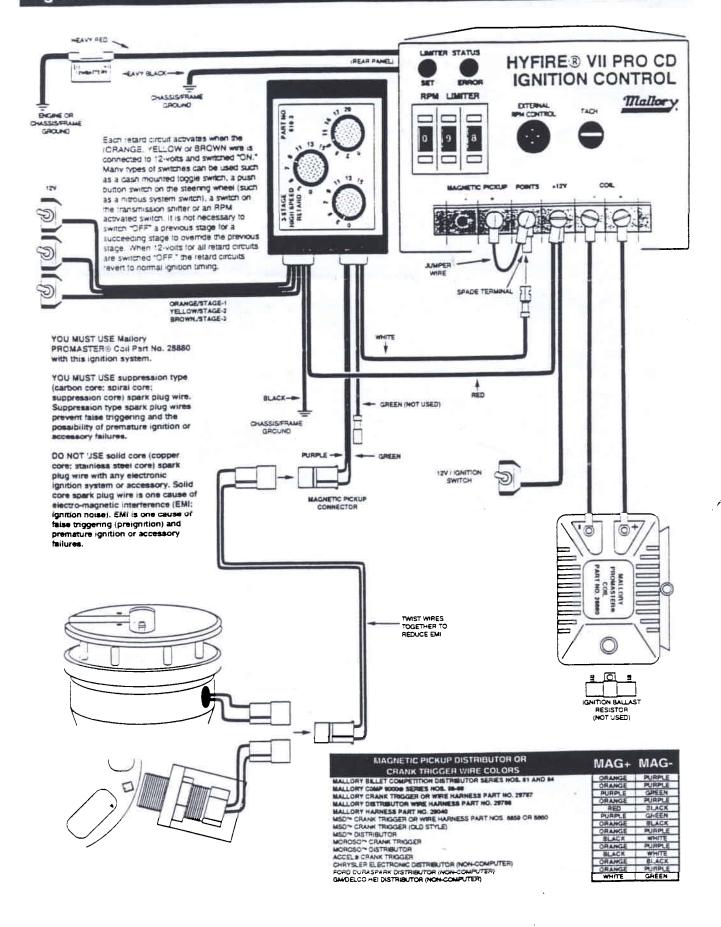


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