COMMON QUESTIONS AND ANSWERS

Q. The engine will not start or runs rough. What is the problem?
A. Check all connections to ensure that they are tight, and in the proper location. Visually check and measure all grounds. Remove paint and corrosion from around the distributor hold down bracket. Make sure that the distributor red and black wire are connected properly. The Ignitor III in the Flame-Thrower distributor will shut down if the wires are incorrectly attached. The Ignitor III is designed to sense high current levels. Check all wires for shorts, correct polarity and that the ignition coil's primary resistance level is acceptable. For more detailed information log on to www.pertronix.com or contact the technical department at (909) 547-9058.

Q. The vehicle will start, but then dies. After waiting, it starts. What is wrong?
A. The Ignitor III in the Flame-Thrower distributor may have a "Low Voltage Problem." If the voltage supplied to the red distributor wire is insufficient, the system may run for a period of time, and then shut down as the voltage drops due to engine heat. The period may vary from minutes to hours depending on available voltage and wiring condition.

Q. How do I check for a "Low Voltage Problem" or determine if I am getting adequate voltage?
A. To quickly test for a "Low Voltage Problem" or for adequate voltage (Note: This is only a test and is not intended as a permanent fix) attach a jumper wire from the positive battery terminal to the positive terminal of the coil. Try to start the vehicle. If the vehicle starts, low voltage is present. Note: If the engine starts. The engine will not turn off unless the jumper wire is removed from the positive battery terminal. Check connections and insure all external resistors have being removed. For more detailed information on how to locate the source of the voltage drop log on to www.pertronix.com or contact the technical department at (909) 547-9058.

Q. How do I check my coil for primary resistance?
A. Remove all wires from the coil. Set the ohmmeter to the lowest scale. Attach one lead of the meter to the positive coil terminal. Attach the other lead to the negative coil terminal. The Ignitor III in the Flame-Thrower distributor is compatible with coils having a resistance of 0.32 ohms or greater.

Q. May I modify the length of the wires?
A. Yes, you may cut the wires to any length your application requires. You may also add lengths of wire if needed (20-gauge). Make sure that all wire splices are clean and secure with a resistor, preferably 1 to 4 kΩ, that is wired in parallel. The Ignitor III in the Flame-Thrower distributor is compatible with aftermarket capacitive discharge boxes.

Q. Will the Ignitor III in the Flame-Thrower distributor work with aftermarket capacitive discharge boxes?
A. We recommend the Ignitor or Ignitor II as a trigger source for a capacitive discharge box. For more detailed information log on to www.pertronix.com or contact the technical department at (909) 547-9058.

Q. How can I receive additional help?
A. Check our web site for current trouble shooting tips and up to date technical information. Log on to www.pertronix.com. You may also contact our tech line at (909) 547-9058.

GENERAL INFORMATION

1. See our website (www.pertronix.com) for latest product information. IMPORTANT: Read all instructions before starting installation.
2. WARNING!!! DO NOT USE WITH SOLID IGNITION WIRES.
3. The Ignitor III used in our Flame-Thrower Cast distributor may not be compatible as a trigger for other electronic boxes.
4. The Ignitor III Rev-Limiter is preset at 5500 RPM’s. The Rev-Limiter can be used set to a minimum 4000 and a maximum 9000 RPM’s.
5. All external resistors must be removed to achieve optimum performance from the Ignitor III ignition system.
6. Flame-Thrower Cast distributors come with hardened steel distributor gears which should not be used in applications with a billet camshaft. Consult camshaft manufacturer for distributor gear compatibility.
7. The Ignitor III is not intended as a permanent fix (Note: This is only a test and is not intended as a permanent fix)

LIMITED WARRANTY

PerTronix, Inc. warrants to the original Purchaser of its Flame-Thrower cast distributor that the product shall be free from defects in material and workmanship (normal wear and tear excluded) for a period of 12 months from the date of purchase (30 months when Ignitor III is purchased separately).

If within the period of the foregoing warranty PerTronix finds, after inspection, that the product or any component thereof is defective, PerTronix will, at its option, repair such products or component or replace them with identical or similar parts PROVIDED that within such period Purchaser:

1. Promptly notifies PerTronix, in writing, of such defects.
2. Delivers the defective product or component to PerTronix (Attn: Warranty) with proof of purchase date; and
3. Has installed and used the product in a normal and proper manner, consistent with PerTronix printed instructions

THE FOREGOING LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

THE FURNISHING OF A REPAIR OR REPLACEMENT COMPONENT OR COMPONENT’S SHALL CONSTITUTE THE SOLE REMEDY OF PURCHASER AND THE SOLE LIABILITY OF PerTronix WHETHER ON WARRANTY, CONTRACT OR FOR NEGLIGENCE, AND IN NO EVENT WILL PerTronix BE LIABLE FOR MONEY DAMAGES WHETHER DIRECT OR CONSEQUENTIAL.

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DISTRIBUTOR INSTALLATION

1. Remove the Flame-Thrower Cast distributor cap.
2. Install the distributor gasket over the gear, and up to the distributor collar. Use a small amount of gasket adhesive to help hold the gasket in place.
3. Lubricate the distributor gear and distributor shaft with clean engine oil.
4. Turn the shaft so that when the distributor is placed into the engine, the rotor position matches that of the original distributor. As the distributor drops down, the rotor will turn slightly as it engages with the camshaft gear. Adjust for this rotation by turning the rotor a few degrees prior to the gear engagement. Several attempts may be necessary to achieve the proper rotor position. The distributor collar should sit completely flat on the intake manifold or block.
5. Place the distributor cap onto the housing.
6. Turn the housing so that the terminal, that represents the first cylinder in the firing order, lines up with the rotor.
7. Install the distributor hold down and tighten the hold down bolt slightly. Insure that the distributor is grounded properly thru the hold down bracket. Once the ignition timing is adjusted the hold down bolt should be tightened completely.
8. Locate the vacuum hose that was previously attached to the vacuum advance canister. This hose should originate at a ported vacuum source.
9. Tighten the cap into place and install the spark plug wires in the proper firing order.

WIRING

The Flame-Thrower III cast distributor can be used in conjunction with most ignition coils rated at 0.32 ohms or greater. For optimum performance we recommend our Flame-Thrower III canister style or HC e-core coil.

Many vehicles came equipped with ballast resistors or resistance wires. To achieve optimum performance we recommend removal of these components. Determine the proper wire length, and attach the provided terminals. (Use a wire crimping tool to achieve an adequate connection).

1. Attach the Red wire to the coil positive terminal or a 12-volt ignition source.
2. Attach the Black wire to the coil negative terminal.
3. Check to insure correct polarity and that all connections are tight.
4. Reconnect the battery negative cable.

FINAL ADJUSTMENTS

1. Start the engine and set the initial timing.
2. For Vacuum advance distributors: Locate the vacuum hose that was previously attached to the vacuum advance canister. This hose should originate at a ported vacuum source. Temporarily plug the end of the vacuum hose at the ported end of the hose. Set the timing per the OEM specifications. Securely tighten the hold down bolt. Remove the vacuum plug and reattach hose to the vacuum canister.

REV-LIMITER SPECIFICATIONS

<table>
<thead>
<tr>
<th>Setting</th>
<th>RPM's</th>
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<tr>
<td>Minimum</td>
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</tr>
<tr>
<td>Maximum</td>
<td>9000</td>
</tr>
<tr>
<td>Factory Setting</td>
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REV-LIMITER SETTING PROCEDURE

1. Remove distributor cap and rotor.
2. Turn the ignition key to the 'ON' position. Do not try starting the engine.
3. Turn the Rev-Limit dial clockwise until it stops. Turn the dial counterclockwise until it stops. A slow blinking of the LED indicates that the setting procedure has been initialized and that the Rev-Limit can be set.
4. Turning the dial clockwise sets the Rev-Limit. After turning the dial, pause and watch the LED for verification of the Rev-Limit setting. Long flashes indicate 1000 RPM's and short flashes indicate 100 RPM's. For example, 6 long flashes followed by 2 short flashes means the Rev-Limit is 6200 RPM's. Continue turning the Rev-Limit dial until the desired Rev-Limit is reached.

NOTE: Leaving the Rev-Limit dial in the full counterclockwise position disables the Rev-Limiter.

5. Let the LED sequence thru at least three complete cycles. This verifies the correct setting and prepares the unit for permanent storage of the Rev-Limit.
6. Turn the ignition key off, this signifies to the Ignitor III that the Rev-Limit procedure is complete. Note: The ignition key MUST be turned off or the engine will not start.
7. Your rev limit is now set and will not change until you go through this procedure again.
8. Re-install cap and rotor.

NOTE: Setting the rev limit may be done effectively and easily on a bench or table. Connect the module to a 9-volt battery as shown in figure 2. Then follow the setting procedure outlined above.

Figure 2