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 below. Following this procedure will initialize and that the Rev-Limiter.

T urning 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.

LIMITED WARRANTY
PerTronix, LLC. warrants to the original Purchaser of its Flame-Thrower billet 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 COMPONENTS 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

NOTE: Billet slip collar distributors are factory set for standard deck height engines. If your application requires a taller installed height, refer to the "ADJUSTING THE SLIP COLLAR" section on page 2 of this manual.

1. Remove the Flame-Thrower billet 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. Tighten the cap into place and install the spark plug wires in the proper firing order.
9. Locate the vacuum hose that was previously attached to the vacuum advance canister. This hose should originate at a ported vacuum source. Remove the vacuum hose and plug the vacuum port.

ADJUSTING THE SLIP COLLAR
NOTE: Non-Standard deck height engines require adjustment of the slip collar for proper distributor gear mesh and oil pump drive engagement. Follow the steps outlined below to insure proper distributor installation.
1. Loosen the slip collar set screws and main clamp socket head screw. The collar should move freely on the distributor housing.
2. Install the distributor into the engine until it bottoms out on top of the oil pump drive shaft. Press down firmly on the distributor body to insure its fully seated.
3. While holding the slip collar firmly against the intake manifold. Tighten the slip collar socket head screw and set screws.
4. Remove the distributor and install the provided 0.060” gasket.
5. Coat the distributor gear with moly grease.
6. Re-install the distributor in the same method as outlined in the section titled "DISTRIBUTOR INSTALLATION" on page 1 of this manual.
7. Set the ignition timing, tighten the distributor hold down.
8. Crank the engine over a few revolutions and remove the distributor in the same method as outlined in the section titled "DISTRIBUTOR REMOVAL" on page 1 of this manual.
9. Look at the marks left in the moly grease on the gear. Proper alignment should leave an even pattern across the middle of the gear.
10. If additional adjustment is necessary, repeat step #3 and while holding the slip collar flat against the manifold. Move the distributor body up by the desired amount. Tighten the slip collar socket head screw and set screws.

FIREING LIQUID

To Ignition

FINAL ADJUSTMENTS
1. WARNING!!! DO NOT USE WITH SOLID CORE SPARK PLUG WIRES.
2. Start the engine and set the initial timing.
3. Tighten the distributor hold down.

WIRING
The Flame-Thrower billet distributor can be used in conjunction with most ignition coils rated at 0.45 ohms or greater. For optimum performance purchase and install a Flame-Thrower II or HV high performance coil.
1. Many vehicles came equipped with ballast resistors or resistance wires. To achieve optimum performance we recommended removal of these components.
2. Determine the proper wire length, and attach the provided terminals. (Use a designated wire crimping tool to achieve an adequate connection)
3. Attach the Red wire to the coil positive terminal or a 12-volt ignition source.
4. Attach the Black wire to the coil negative terminal.
5. Check to insure correct polarity and that all connections are tight.
6. Reconnect the battery negative cable.

MECHANICAL ADVANCE ADJUSTMENTS
1. To adjust the mechanical advance curve, select the appropriate springs from the chart below. The Flame-Thrower billet distributor is factory equipped with the silver springs.
2. Remove the cap and rotor.
3. Remove the existing springs and install the desired springs.
4. Reinstall the rotor and cap.

INSTALLATION OF ADVANCE LIMITERS
The Flame-Thrower billet distributor comes with three different sets of advance limiters. These allow the maximum mechanical advance to be limited to 20, 16 or 12 degrees.
1. Choose the desired advance limit from the chart below.
2. Remove the distributor cap and rotor.
3. Remove the advance springs.
4. Install one advance limiter on each inner advance pin. (See Figure 1)
5. Reinstall the advance springs.
6. Crank the engine over a few revolutions and remove the distributor in the same method as outlined in the section titled "DISTRIBUTOR REMOVAL" on page 1 of this manual.
7. Look at the marks left in the moly grease on the gear. Proper alignment should leave an even pattern across the middle of the gear.
8. If additional adjustment is necessary, repeat step #3 and while holding the slip collar flat against the manifold. Move the distributor body up by the desired amount. Tighten the slip collar socket head screw and set screws.
9. Re-install the distributor in the same method as outlined in the section titled "DISTRIBUTOR INSTALLATION" on the this manual.