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.

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.
- Delivers the defective product or component to PerTronix (Attn: Warranty) with proof of purchase date; and
- 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 PERTITIONIX WHETHER ON WARRANTY, CONTRACT OR FOR NEGLIGENCE, AND IN NO EVENT WILL PERTITIONIX BE LIABLE FOR MONEY DAMAGES WHETHER DIRECT OR CONSEQUENTIAL.



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Billet Magnetic Trigger Distributor Installation Instructions

GENERAL INFORMATION

- 1. IMPORTANT: Read all instructions before starting installation.
- This distributor REQUIRES the use of a CAPACITIVE DISCHARGE (CD) or other primary ignition system. The PerTronix Digital HP is highly recommended.
- Flame-Thrower Billet 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.
- 4. Solid core spark plug wires **MUST NOT** be used.
- 5. Engines that have been decked, had significant cylinder head milling or oil pump modification should be checked for oil pump bind and proper cam gear mesh prior to installation.

DISTRIBUTOR REMOVAL

- Crank the engine until the number 1 cylinder is positioned at top dead center on compression stroke. The timing indicator should point to 0.
- 2. Remove the distributor cap, and make sure that the rotor is pointing towards the first cylinder in the firing order.
- B. Disconnect the battery negative (-) cable.
- Disconnect all wires and hoses attached to the distributor.
- Remove the distributor hold down.
- 6. Remove the distributor by lifting up on the distributor housing while slightly turning the rotor.
- 7. Check the distributor gear for signs of excess wear, or potential problems.

DISTRIBUTOR INSTALLATION

- 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.
- Place the distributor cap onto the housing.
- Turn the housing so that the terminal, that represents the first cylinder in the firing order, lines up with the rotor.
- 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.
- . Tighten the cap into place and install the spark plug wires in the proper firing order.
- 9. The distributor is equipped with a vacuum advance canister. If the application does not use a vacuum advance, see "Vacuum Advance Lockout Installation" section.

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WIRING

The Flame-Thrower billet distributor is designed for use with the PerTronix Digital HP CD ignition system, but can be used in conjunction with most aftermarket ignition boxes.

Attach the molex connector to the magnetic pickup input of your CD ignition box. In some cases
and intermediate harness may be required to reach the box location. Contact the ignition box
manufacture to obtain these parts.

FINAL ADJUSTMENTS

- 1. Start the engine and set the initial timing.
- 2. Tighten the distributor hold down.

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.
- Remove the cap and rotor.
- 3. Remove the existing springs and install the desired springs.
- 4. Reinstall the rotor and cap.

| | R.P.M. | | | | | | | | | | |
|--------------------|--------|------|------|------|------|------|------|------|------|------|------|
| | 500 | 1000 | 1500 | 2000 | 2500 | 3000 | 3500 | 4000 | 4500 | 5000 | 5500 |
| Copper | 0 | 5 | 16 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| Silver | 0 | 0 | 3 | 10 | 16 | 22 | 24 | 24 | 24 | 24 | 24 |
| Bronze | 0 | 0 | 0 | 3 | 7 | 10 | 14 | 18 | 22 | 24 | 24 |
| Crankshaft Degrees | | | | | | | | | | | |

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.

- Choose the desired advance limit from the chart below.
- 2. Remove the distributor cap and rotor.
- 3. Remove the advance springs.
- Install one advance limiter on each inner advance pin. (See Figure 1)
- Reinstall the advance springs.
- Reinstall the rotor and cap.
- 7. The advance limiters can be mixed resulting in unique variations of the original advance curve. When combined with mixed advance springs and limiters the mechanical advance can have a maximum of 78 different advance curves.

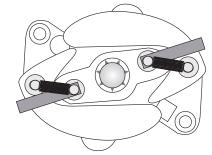
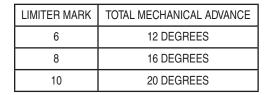
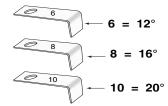


FIGURE 1





VACUUM ADVANCE LOCKOUT INSTALLATION

PerTronix Flame-Thrower Mag Trigger distributors are factory equipped with a vacuum advance canister. If the application does not require a vacuum advance, it can be left installed, but not connected to a vacuum source. As an option, the provided vacuum lockout can be installed to eliminate the vacuum canister.

Tools Needed Phillips screw driver Snap ring pliers Small punch Hammer

- Remove the cap and rotor.
- Using the hammer and punch, knock out roll pin holding the collar or gear on the shaft. If distributor shims are present, be sure to note their location.
- 3. Pull up on the shaft to gain access to the snap ring under the reluctor wheel.
- 4. Remove snap ring.
- Lift up on the module and plate to gain access to the two screws holding the vacuum canister to the distributor.
- 6. Remove the two screws and lift the vacuum canister out of the distributor.
- 7. Install vacuum lockout adapter into the distributor and use the two screws to tighten down.
- 8. Position the module plate so that the vacuum lockout pin aligns with the hole in the module plate.
- 9. Re-install the snap ring.
- 10. Reinstall any shims and tap the roll pin back into the lower collar or distributor gear.
- 11. Re-install the rotor and cap.
- 12. Make sure to plug the original vacuum hose.