



INSTALLATION INSTRUCTIONS

Vortech GM Small Block V8 Distributor PN 5592

ONLINE PRODUCT REGISTRATION: Register your MSD product online and you'll be entered in our monthly 8.5mm Super Conductor Spark Plug Wire give-away! Registering your product will help if there is ever a warranty issue with your product and helps the MSD R&D team create new products that you ask for! Go to www.msdisignition.com/registration.

Parts Included:

1 - Distributor

1 - Gear Lubricant

1- Gasket

WARNING: During installation disconnect the battery cables. When disconnecting the battery, always remove the negative cable first and install it last.

Note: It is recommended to have the Service Manual available for your vehicle. If the distributor is not installed properly, the Check Engine Light will come on.

IMPORTANT: The Street Fire Vortech small block distributor MUST be properly indexed when installed. The cam and crank sensors must be within 2° to be properly synched. If not, the check engine light will illuminate and a Diagnostic Trouble Code (Code P1345) will be set. The engine will still start and run, but a DTC will be set and the check engine light will stay on until the phasing is corrected.

It is required to use a bi-directional scanner to set the sync of the distributor. A timing light will not assist in setting the cam-to-crank phasing. Many GM dealers and local repair shops will have the required scanner.

The following is the procedure to properly adjust the cam-to-crank sensor phasing using proper scan tool.

1. With the ignition Off, install the scan tool to the Data Link Connector.
2. Start the engine and bring to normal operating temp.
3. Monitor the Cam Retard Offset. Increase engine speed to 1,000 rpm as cam retard offset reading will not be accurate below 1,000 rpm.
4. If the scan tool indicates that cam retard is between 0° and +/- 2°, the distributor is properly adjusted. Move to step 8.
5. If the scan tool does not indicate that cam retard is between 0° and +/- 2, you will need to adjust the distributor.
6. With the engine off, slightly loosen the distributor hold down bolt.
7. Rotate the distributor as follows:
 - a. To compensate for a negative reading, rotate the distributor counterclockwise.
 - b. To compensate for a positive reading, rotate the distributor clockwise.
8. Tighten the distributor hold down bolt.
9. Recheck the cam retard offset repeating steps 2-8 as needed.
10. When proper adjustment is achieved, use scan tool to perform cam/crank relearn. Installation is complete.

REMOVAL

1. Mark the spark plug wires and their location then remove the cap. Note that the Vortech Distributor routes the wires to each side and from front to back (Figure 2).
2. Remove the two screws retaining the cap.
3. With the cap off, turn the engine over until the rotor is aimed at a fixed point on the engine or firewall. Note this position by making a mark (Figure 1).
4. Loosen the distributor hold-down clamp and slide it out of the way.
5. Lift the distributor out of the engine. Note that the rotor rotates as you lift it out. This is due to the helical cut gear and should be taken into consideration when installing the new distributor.

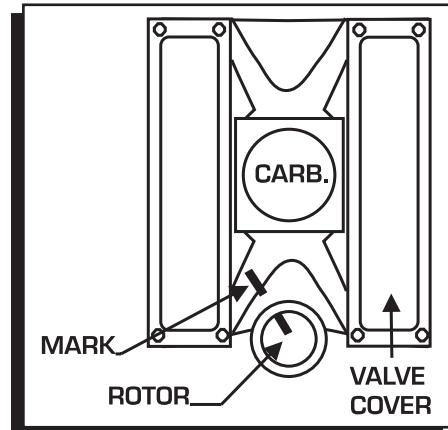


Figure 1 Marking the Distributor Location.

INSTALLATION

1. Remove the cap from the Street Fire distributor. Install the new gasket on the housing.
2. Apply a liberal amount of the supplied break-in lubricant to the distributor gear.
3. Install the distributor making sure that the rotor comes to rest at the same fixed mark. If the distributor will not fully seat you may need to rotate the oil pump shaft using a long flat-blade screwdriver.
4. With the rotor in the correct position and the distributor fully seated, install the distributor clamp and tighten it.
5. Install the distributor cap.
6. Install the spark plug wires one at a time to ensure correct location.



Figure 2 Distributor Cap.

Service

In case of malfunction, this MSD component will be repaired free of charge according to the terms of the warranty. When returning MSD components for warranty service, **Proof of Purchase** must be supplied for verification. After the warranty period has expired, repair service is based on a minimum and maximum fee.

All returns must have a Return Material Authorization (RMA) number issued to them before being returned. To obtain an RMA number please contact MSD Customer Service at 1 (888) MSD-7859 or visit our website at www.msdition.com/rma to automatically obtain a number and shipping information.

When returning the unit for repair, leave all wires at the length in which you have them installed. Be sure to include a detailed account of any problems experienced, and what components and accessories are installed on the vehicle. The repaired unit will be returned as soon as possible using Ground shipping methods (ground shipping is covered by warranty). For more information, call MSD Ignition at (915) 855-7123. MSD technicians are available from 7:00 a.m. to 5:00 p.m. Monday - Friday (mountain time).

Limited Warranty

MSD IGNITION warrants this product to be free from defects in material and workmanship under its intended normal use*, when properly installed and purchased from an authorized MSD dealer, for a period of one year from the date of the original purchase. This warranty is void for any products purchased through auction websites. If found to be defective as mentioned above, it will be repaired or replaced at the option of MSD Ignition. Any item that is covered under this warranty will be returned free of charge using Ground shipping methods.

This shall constitute the sole remedy of the purchaser and the sole liability of MSD Ignition. To the extent permitted by law, the foregoing is exclusive and in lieu of all other warranties or representation whether expressed or implied, including any implied warranty of merchantability or fitness. In no event shall MSD Ignition or its suppliers be liable for special or consequential damages.

*Intended normal use means that this item is being used as was originally intended and for the original application as sold by MSD Ignition. Any modifications to this item or if it is used on an application other than what MSD Ignition markets the product, the warranty will be void. It is the sole responsibility of the customer to determine that this item will work for the application they are intending. MSD Ignition will accept no liability for custom applications.