



# INSTALLATION INSTRUCTIONS

## MSD Pro-Billet Chevrolet Plug Wet Sump, PN 8513

### Parts Included:

1 - Distributor Plug, PN 8513  
1 - Gasket

2 - O-ring Seals  
1 - Tube of Gear Lubricant

**Note:** MSD Distributors use a shaft with a 0.500" OD Shaft. If the gear must be replaced, use MSD Gears: Steel - PN 8531, Bronze - PN 8431 and Bronze 0.006" oversized - PN 8472.

### ADJUSTING THE SLIP COLLAR

If any modifications have been done to the intake manifold deck of the block or heads, the deck height may have changed. The Slip Collar allows you to compensate for these changes.

Before installing the Pro-Billet Distributor Plug, the slip collar adjustment may need to be set. MSD offers a special tool, the 3-in1 Distributor Set Up Tool, PN 8599, to make these adjustments accurately. If the tool is not available, follow this procedure.

1. Loosen the slip collar and insert the distributor into the engine until it bottoms out against the oil pump drive.
2. After it bottoms out, raise the distributor 0.010" - 0.030" then slide the slip collar down into position and tighten it.

### CHECKING GEAR MESH

It is recommended to check for proper gear mesh between the cam gear and distributor gear. To do this, coat the distributor gear with moly grease and install the distributor. Crank the engine over several times, pull the distributor out and inspect the gear pattern shown on the grease. The proper mesh will leave an even pattern in the middle of the gear (Figure 1). Adjust the slip collar to obtain the correct mesh.

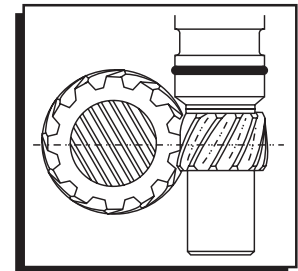


Figure 1 Correct Gear Mesh.

### CHECKING THE OIL PUMP TO DISTRIBUTOR SHAFT OVERLAP

The proper overlap between the distributor shaft and the oil pump shaft is very important. The tongue of the distributor shaft should fit into the groove of the oil pump shaft by at least 1/4". To check this:

1. Measure the distance between the base of the slip collar to the tip of the distributor shaft (Figure 2).
2. Using a straight edge, measure the distance from the intake manifold distributor flange to the bottom groove on the oil pump shaft (Figure 2).
3. Take the two measurements and subtract them.

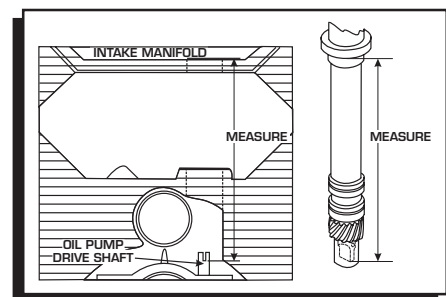


Figure 2 Measuring Oil Pump Overlap.

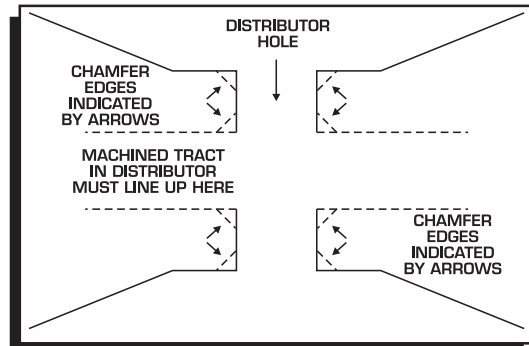
3. Take the two measurements and subtract them.

The difference is the overlap. If there is not enough or too much overlap a different oil pump shaft is required.

## **INSTALLATION**

There are two slots on the housing for the supplied O-rings. These are for use only on engines that have been modified as shown in Figure 3. The O-rings will increase oil pressure by preventing the oil from passing through the oil gallery lands. If your block is not modified as shown, do not use the O-rings. The oil pressure will remain as if a standard distributor was used.

1. Apply a liberal amount of the supplied lubricant to the distributor gear.
2. Install the distributor plug making sure that it fully seats on the manifold. You may need to rotate the oil pump shaft to get the distributor to fully seat.
3. Position and tighten the hold-down clamp onto the collar.



**Figure 3 Modified For O-Rings.**

### **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 service, Proof of Purchase must be supplied for warranty verification. After the warranty period has expired, repair service is charged based on a minimum and maximum charge.

Send the unit prepaid with proof of purchase to the attention of: **Customer Service Department, Autotronic Controls Corporation, 12120 Esther Lama, Suite 114, El Paso, Texas 79936.** 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 after receipt, COD for any charges. For more information, call the MSD Customer Service Line (915) 855-7123. MSD technicians are available from 8:00 a.m. to 5:00 p.m. Monday - Friday (mountain time).

### **Limited Warranty**

Autotronic Controls Corporation warrants MSD Ignition products to be free from defects in material and workmanship under normal use and if properly installed for a period of one year from date of purchase. If found to be defective as mentioned above, it will be replaced or repaired if returned prepaid along with proof of date of purchase. This shall constitute the sole remedy of the purchaser and the sole liability of Autotronic Controls Corporation. To the extent permitted by law, the foregoing is exclusive and in lieu of all other warranties or representations whether expressed or implied, including any implied warranty of merchantability or fitness. In no event shall Autotronic Controls Corporation be liable for special or consequential damages.