

# **MSD** INSTALLATION INSTRUCTIONS

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

**ONLINE PRODUCT REGISTRATION:** Register your MSD product online. 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.msperformance.com/registration](http://www.msperformance.com/registration).

### **Parts Included:**

1 - Distributor Plug, PN 8513	2 - O-ring Seals
1 - Gasket	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**

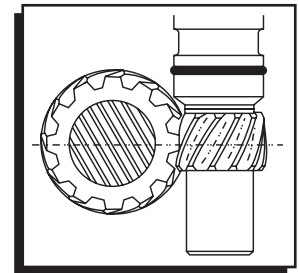
If any modifications have been done to the intake manifold deck of the block or heads, the deck height may have changed. The Slip Collar allows you to compensate for these changes.

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.

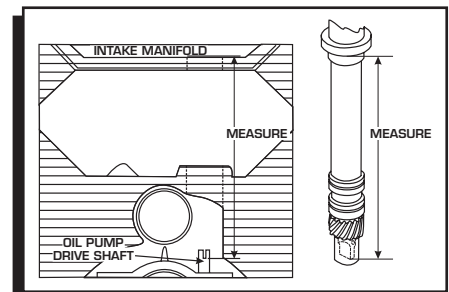


**Figure 1 Correct Gear Mesh.**

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



**Figure 2 Measuring Oil Pump Overlap.**

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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.

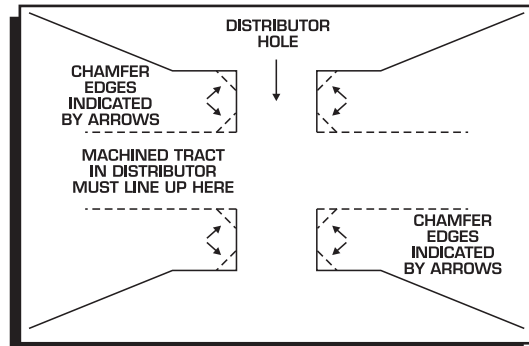


Figure 3 Modified For O-Rings.

### 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 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.msdpower.com/rma](http://www.msdpower.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 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 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. 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. 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 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. Any modifications to this item or if it is used on an application other than what MSD 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 will accept no liability for custom applications.