IMPROVED RACING
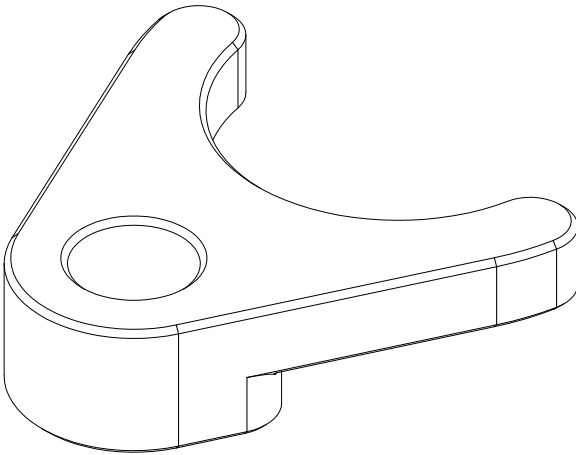
LS Engine Oil Pump Pickup Tube Brace / Girdle

Part No. EGM-500

Made in USA

**Important: Read these instructions
in their entirety prior to installation.**

Applications

- GM Gen III & IV LS family engines, wet-sump only
- Note: This product is not compatible with some aftermarket oil pump pickup tubes such as Holley.
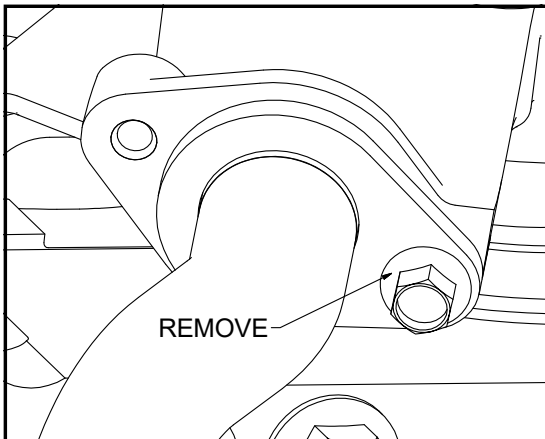
Installation Instructions

⚠️ **Warning: This product should only be installed by a qualified mechanic. Improper installation could result in severe engine damage.**

1. Drain the engine oil and remove the oil filter.

2. Refer to the instructions in the vehicle's factory service manual to remove the oil pan.

   💡*Tip: Inspect the oil pan gasket for signs of wear and damage; install a new gasket if necessary. Clean the inside the oil pan if needed.*
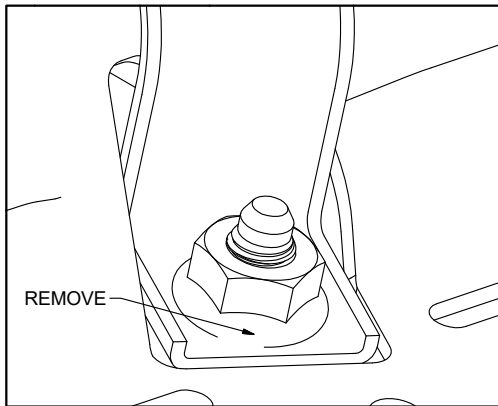
3. Remove the M6 flange screw from the engine oil pump using a 10 mm wrench (Figure 1) and set aside.

   Note: Screw may be located on opposite side in some applications.
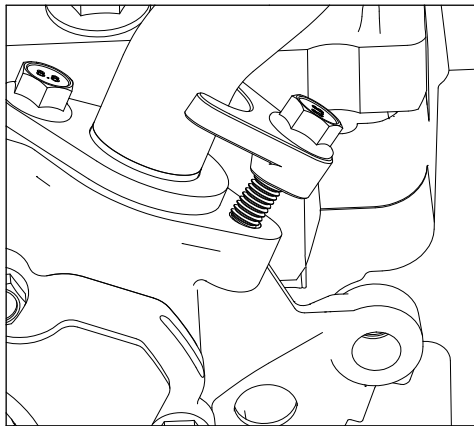

REMOVE

Figure 1 - Pickup Tube Screw

4. **1997-2013 wet-sump Chevrolet Corvettes:** Remove the oil pickup tube support bracket nut (Figure 2).

5. *Optional:* Replace the oil pickup tube O-ring with a new O-ring. This step requires removal of the pickup tube.

6. Position the Improved Racing Oil Pickup Tube Brace on the pickup tube (Figure 3).

Figure 2 - Support Bracket Nut

Figure 3 - Install Pickup Tube Brace

7. Insert the provided M6 flange screws. Torque the pickup tube flange first, then torque the brace screw. Torque both screws to approximately 8.83 lb-ft (106 lb-in) with a 10mm wrench.

8. If the pickup tube was removed, reinstall the pickup tube support bracket nut (Figure 2) and torque to 18 lb-ft.

9. Follow the instructions in the vehicle's factory service manual to reinstall the oil pan.

Congratulations! You have successfully installed your LS engine oil pickup tube brace.