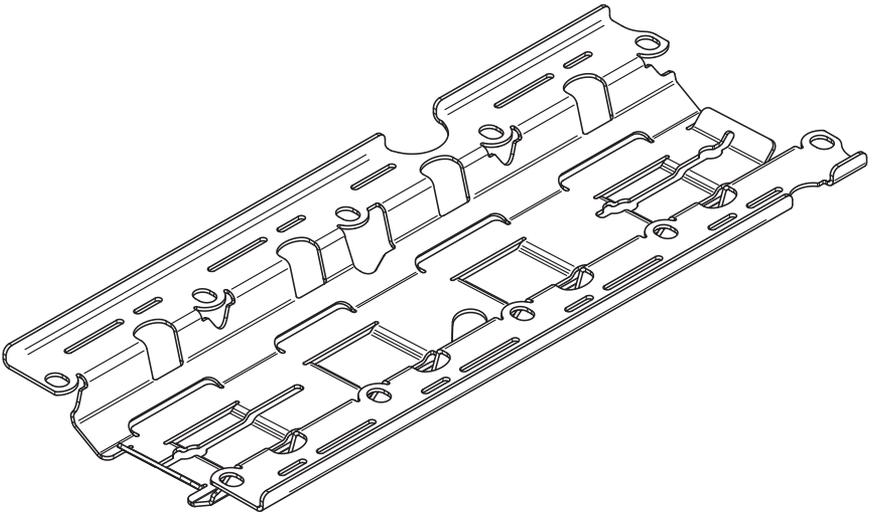




**PERFORMANCE ALUMINUM WINDAGE
TRAY FOR C5 & C6 CORVETTE OIL PANS**

PART NO. EGM-242

MADE IN USA



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

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APPLICATIONS

- 1997+ LS / Vortec engines equipped with C5 or C6 Corvette oil pans.
 - Fits engines with stock or aftermarket bottom ends and stroke up to 4.000".
 - CAD-verified to fit the C5 Corvette *bat-wing* oil pan.
 - After performing the modifications shown in Figure 1, this part is CAD-verified to fit the C6 Corvette oil pan.
- ⚠ **DOES NOT fit 4.125" stroke engines.**
- ⚠ **DOES NOT fit LS engine blocks using stepped main caps, such as Dart Industry's LS Next engine blocks.**
- May fit aftermarket oil pans if:
 - The aftermarket pan uses C5 or C6 Corvette dip stick tubes.
 - The aftermarket pan uses C5 or C6 Corvette pickup tube (screen).
 - The aftermarket oil pickup tube fastens to the main cap location shown in Figure 2.

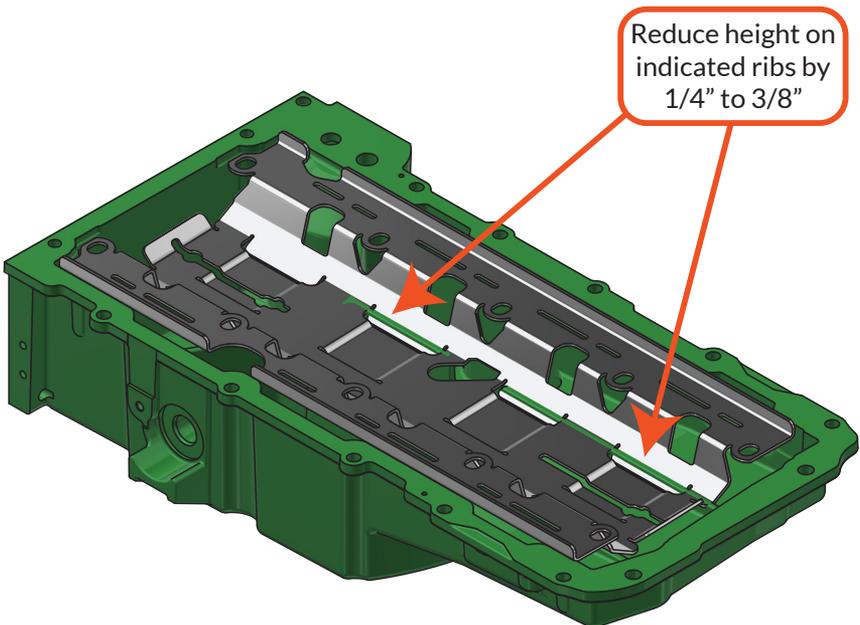


Figure 1 - C6 Corvette Internal Oil Pan Rib to Modify

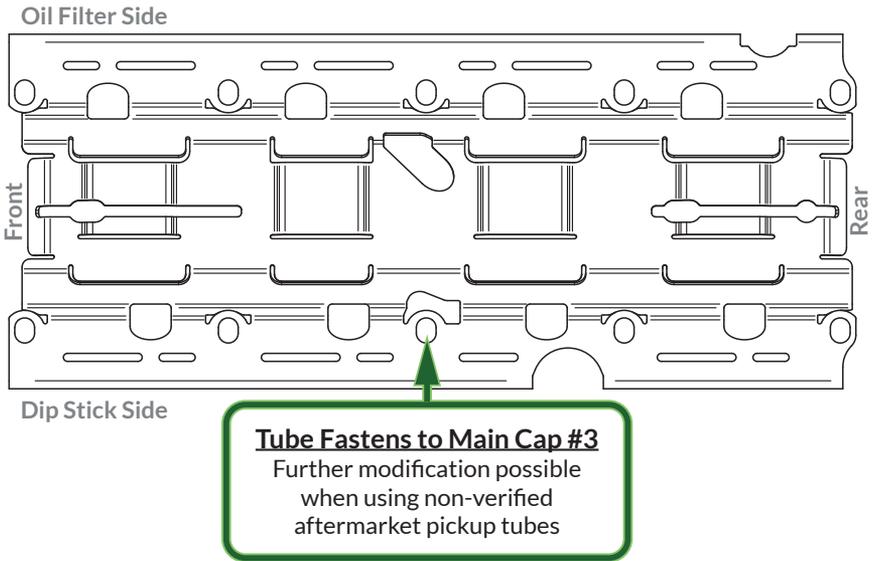


Figure 2 - Pickup Tube Fastening Locations on Main Cap #3

- See Figure 3 to verify the aftermarket pan is deep enough.
 - There should be at least 1.60" of clearance from the gasket surface.

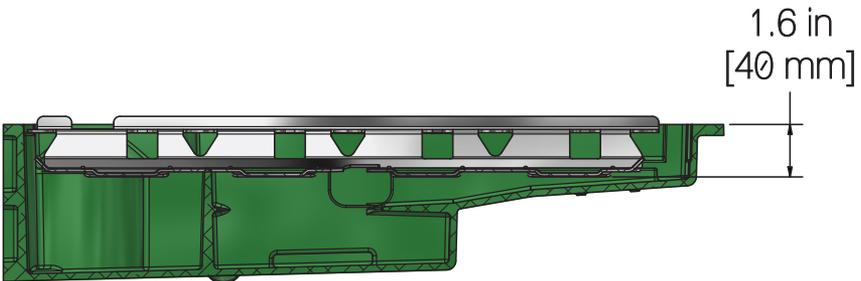


Figure 3 - Minimum Aftermarket Oil Pan Depth

- Expect to trim the tray for aftermarket oil pickup tubes.
 - Use a marker and cutting tool to trim the windage tray until it clears the oil pickup tube mounting bracket by about 1/8".

PARTS LIST & HARDWARE

Qty	Part Number	Description
1	EGM-242	Windage Tray
9	HSP-1009	Adapter for Factory Main Studs
10	HNT-1018	M8 Lock Nut for Factory Main Studs

TECHNICAL SPECIFICATIONS

Maximum Operating Temperature	302°F (150°C)
Minimum Operating Temperature	-22°F (-30°C)
Dimensions	Refer to Figure 4
Weight	1.3 lb (0.6 kg)
Tray Material	5052-H32 Aluminum Sheet
Bushing Material	6061-T6 Billet Aluminum

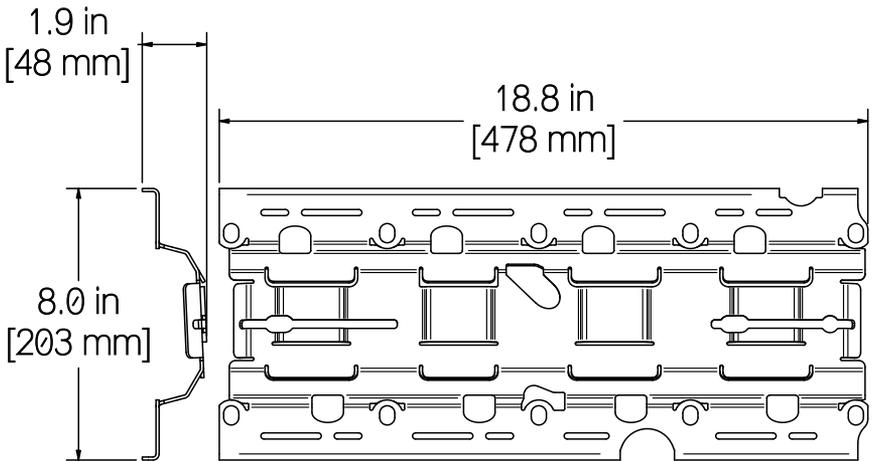


Figure 4 - EGM-242 Dimensions

BEFORE YOU BEGIN

-  **WARNING: NEVER work under a vehicle supported by only a jack.**
-  **WARNING: This product should only be installed by a qualified mechanic. Improper installation could result in severe engine damage.**
-  Replace the oil pump O-ring and oil pan gasket during installation.
-  Consider installing an oil pump flange brace, such as EGM-500.

INSTALLATION INSTRUCTIONS

1. Review the vehicle's service manual and follow the steps to remove the oil pan and windage tray.
 2. Inspect the new windage tray. Use hand deburring tools to remove any burrs then clean the windage tray to remove any contaminants left from the manufacturing process.
 3. Install the new windage tray:
 - a. If using factory sized main studs, install the included HSP-1009 adapters over the windage tray (on the oil pan side) to help center the tray on the stud. The kit may include more adapters than required for your application.
-  **IMPORTANT: DO NOT install the HSP-1009 adapters under any oil pickup tube mounting bracket locations. This will cause the oil pickup tube to be spaced down lower than it should.**
- b. If using aftermarket main studs, proceed without installing the HSP-1009 adapters.

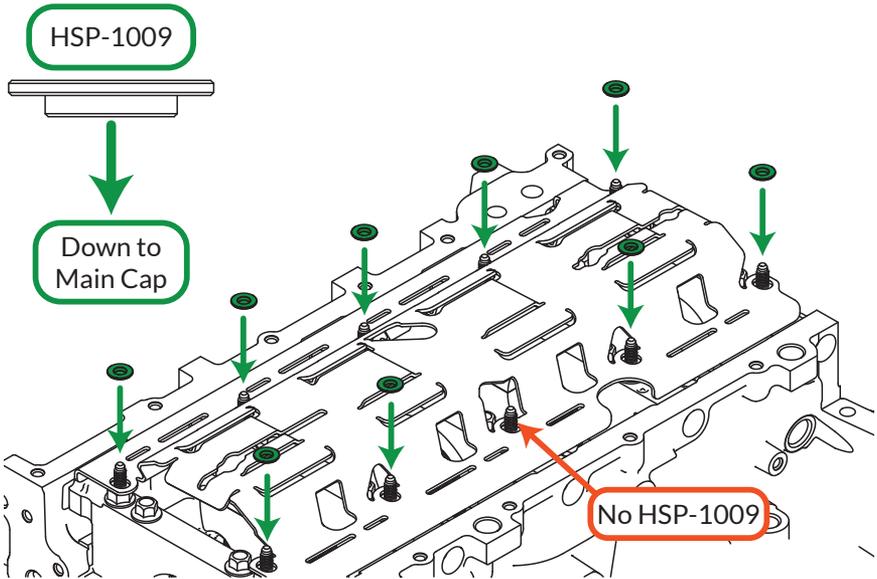


Figure 6 - Install HSP-1009 Adapters on Factory Main Studs

4. Secure the new windage tray:
 - a. For factory main studs, use the included M8 lock nuts.
 - b. For aftermarket studs, use the nuts supplied with the stud kit.
- ⚠ Turn the engine clockwise using a 24mm (15/16") socket and breaker bar on the crank pulley to confirm there is no interference between the new windage tray and rotating assembly. Loosen and adjust the new tray until clearance is confirmed.
5. Perform the remaining steps in the vehicle's service manual to reinstall the oil pickup tube and oil pan.
- ⚠ **IMPORTANT:** Ensure the oil pickup tube flanges are flush with the oil pump and the new windage tray.
- 🚩 Installation is now complete. Thank you for purchasing an Improved Racing product!