



**1966-1972 B-Body Mopar with Stock V8 K-Member
GEN3 Hemi Swap Engine Mount Brackets
5.7-6.1-6.2-6.4L Engines**



Installation Instructions

Thank you for choosing to use HOOKER™ engine swap mounting brackets as part of your GEN3 HEMI Swap project. These mounting brackets are part of the most comprehensively engineered system of mounting components, headers and exhaust systems available for this application. Please read these instructions thoroughly before attempting installation.

IMPORTANT: Low mount A/C Compressors will only work with engines using VVT front accessory drive.

*** These Engine mounting plates will not work with **NON VVT**- low mount A/C compressor configurations.

PRE-INSTALLATION CONSIDERATIONS:

- Installation of these brackets requires the use of new OE style Mopar V8 engine B-Body rubber engine mounts. These are available at your local parts store (**example: POWER TORQUE P/N 2250**). These mounts will need to be modified for clearance at the engine block. See **Figure 5** on page 3 of these instructions for details.
- K-Member clearance will need to be performed to accommodate low mount A/C compressors (**VVT engines only**) See **Figure 7** on page 3 of these instructions.
- Mopar Performance 45 Degree Oil Filter Adapter Kits **P/N 77072447** or remote oil filter location will be required.
- Use of a Mid Sump oil pan and pick up tube required (**See Holley website for correct Holley cast aluminum or Weiland sheet metal oil pan part number**).
- 6.2L Hellcat engine installations may require supercharger water manifold or firewall modification.
- Only Blackheart Headers **P/N BH2358** have been tested for correct fitment with these engine mounting plates.

Visit www.holley.com for a complete selection of Transmission Crossmembers, Headers, Exhaust, and more GEN3 HEMI support products to complete your B-Body Hemi Swap.

COMPATIBILITY INFORMATION:

P/N BHS531 Mounting plates will not work with the following combinations:

- Low mount A/C Compressors on **NON VVT ENGINES** – (VVT timing cover and accessory drive is required to use low mount A/C)
- OEM Hemi K-Members
- 6 Cylinder K-Members
- Late K-Members using barrel style engine mounts

PARTS LIST:

Qty.	Description
1	Left Engine Mounting Plate
1	Right Engine Mounting Plate

ACCESSORY PACK CONTENTS:

9		M10 x 1.50 x 25mm Flange Bolts
2	599R94	Decal – Blackheart 2” x 4”
1	199R12007	Instruction Sheet

Check the hardware package. If anything is missing, please contact Technical Service at 1-866-464-6553 or 270-781-9741.

TOOLS NEEDED:

3/8" Metric Socket Set
6' Extension
3/4" Wrench
Blue Loctite®

INSTALLATION:

Installation of Blackheart BHS531 GEN 3 Hemi Swap Engine Mount Plates:

Driver's Side Mounting Plate

- With the engine out of the vehicle, install the driver's side (Left) mounting plate to the engine block using (x4) M10 x 25mm flange bolts provided. Install the mounting bracket with the engine mount pad toward the front of the engine using the OEM engine mount locations. **NOTE:** The 5th mounting hole provided may be used in place of the 4th bolt under the motor mount pad if the block is threaded (always use at least 4 mounting bolts.) See **Figure 1 & Figure 2.**

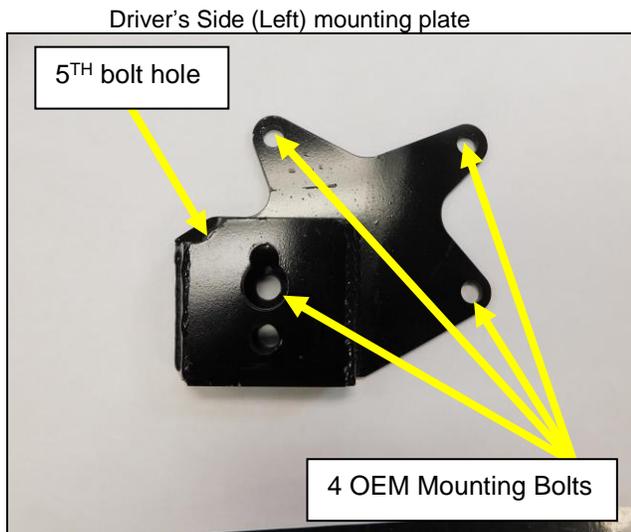


Figure 1



Figure 2

INSTALLATION:

Passenger's Side Mounting Plate

- Install the passenger's side (Right) mounting plate to the engine block using (x4) M10 x 25mm flange bolts provided. Install the mounting bracket with the engine mount pad toward the front of the engine using the OEM engine mount locations (**Figure 2 & Figure 4**).

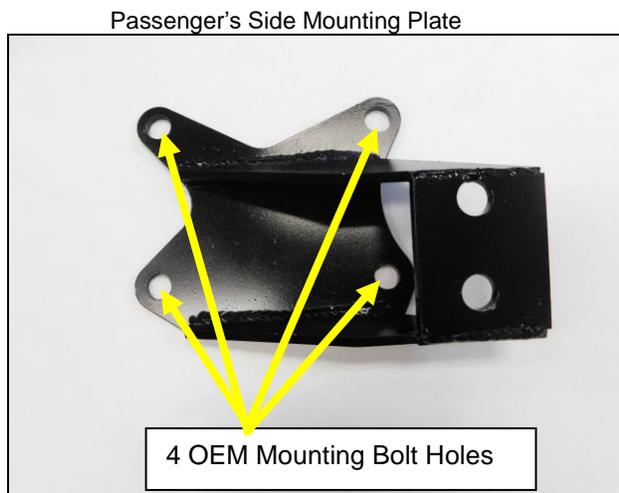


Figure 3



Figure 4

Installing the Rubber Motor Mount:

Modification to the rubber mount must be performed before the mount can be installed on to the mounting bracket.

1. The bottom corner of the motor mount must be trimmed to clear the engine block and oil pan rail on both the left and right side mounts. This is easily accomplished with a grinder or band saw (pre modified mounts are available on line). See **Figure 5**.
2. Install the rubber mount onto the engine bracket while the engine is out of the vehicle, using a ½"-13 nut and washer (**Fig. 6**).

Modified Mount

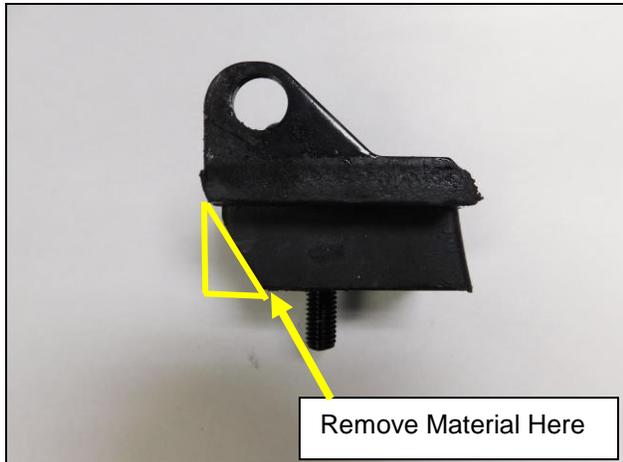


Figure 5

Modified Mount Installed

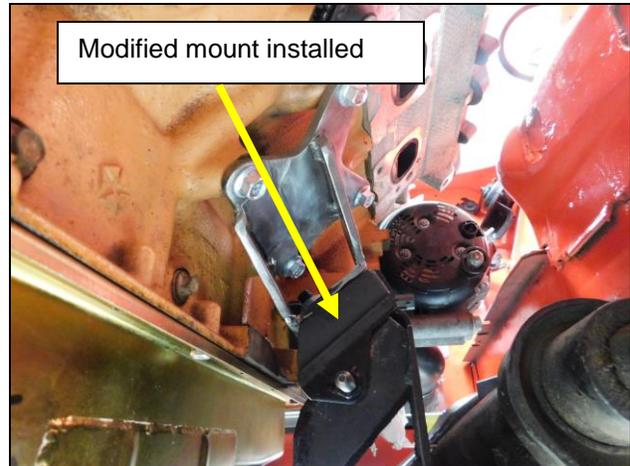


Figure 6

INSTALLATION:

K-Frame Notch for Low Mount A/C Compressor Clearance:

1. Mark the driver's (left) side K-frame as noted in **Figure 7**.
2. Remove the area marked in yellow, deburr the edges, and apply black paint to keep the metal from rusting (**Fig. 7 & Fig. 8**).



Figure 7



Figure 8

Install the engine into the vehicle slowly until the engine mounts are resting on the K-Frame and the engine mount bolts can be installed. Be sure to block or support the engine to prevent damage to the engine mounts while the transmission is being installed.



Any questions? Please contact Technical Service: 1-866-464-6553 or 270-781-9741. For online help, please refer to: www.holley.com.

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