



**Gen 3 Hemi Swap
Low Profile Cast Exhaust Manifold
BHS582 (Raw), BHS583 (Silver), & BHS584 (Black)
Multi-Fit Application
2003- 2021 Gen 3 Chrysler Hemi
5.7-6.1-6.2-6.4L**



Installation Instructions

Thank you for choosing to use HOOKER™ engine swap manifolds as part of your GEN3 HEMI Swap project. These manifolds 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:

- Requires Hooker Blackheart Engine Mounting Brackets for best results. See compatibility below for installation notes.
- Requires engine specific Exhaust Manifold gaskets for proper exhaust port seal. See compatibility below for part numbers.

Installation Note: These parts are designed to fit a variety of vehicles and are not intended to be an exact fit part for all Gen 3 hemi Swap projects. Our engineers have test fit these parts on a range of different vehicles and have determined that they are capable of providing a low cost exhaust manifold solution for a number of vehicles that will be accepting the Gen 3 Chrysler Hemi engine. Some minor modifications may be required to accommodate BHS582, BHS583 or BHS584 manifolds into your particular vehicle even if it is listed on the following pages.

Visit www.holley.com for a complete selection of Transmission Crossmember, Headers, Exhaust, and more GEN3 HEMI support products to complete your Gen 3 Hemi Swap project.

COMPATIBILITY INFORMATION:

These manifolds were specifically designed to be installed with **Hooker Blackheart** HEMI swap engine and transmission mounting components and exhaust systems for the same applications. Attempts to install these headers with any other type or combination of engine and transmission mounting components may cause them to not provide their intended ground or vehicle component clearance and may effect compatibility with the related HOOKER™ exhaust systems if applicable.

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BHS582, BHS583 or BHS584 manifolds are designed as a multi-fit application. The following Dodge, Chrysler and Plymouth vehicles have been test fit (see notes for details).

- 1967-1972 A-Body manual steering only – requires power steering or shortened column tube and u-joint style coupler
- 1966-1972 B-Body - Manual or Power Steering, **Figure 3**
- 1970-1974 E-Body - Manual or Power Steering, **Figure 3**
- 1987-1996 Dodge Dakota 2wd V6/V8
- 1997-2004 Dodge Dakota 2wd V6/V8 - Upper Control arm clearance recommended, **Figure 4**
- 1972-1993 Dodge D100/D150

BHS582, BHS583, or BHS584 manifolds WILL fit the following engines (* see notes):

- 5.7L 2003 – 2008 * 1, 2
 5.7L 2009 – 2020 * 1, 3, 4
 6.1L 2005 – 2010 * 1, 3
 6.2L 2015 – 2020 * 1, 3
 6.4L 2011 – 2020 * 1, 3, 4

- 1) Holley Engine Mounts or adapter brackets are required for correct fitment
- 2) Square Exhaust Port - OEM Gasket P/N: 53013943AA and P/N: 53013944AA
- 3) D-shaped exhaust port (No EGR) - OEM Gasket P/N: 05038098AA and P/N: 05038099AA
- 4) D-shaped exhaust port (with EGR and heat shield) - OEM Gasket P/N: 5045495AA and PN: 5045496AA

PARTS LIST:

Qty.	Description
1	Left Header
1	Right Header

ACCESSORY PACK CONTENTS:

20		M8 x 25mm Header Bolts
4		M10 x 30mm Flange Bolt
2		Companion Flanges
2		Flange Gaskets
2	599R94	Decal – Blackheart 2" x 4"
1	199R12219	Instruction Sheet

* REQUIRES THE USE OF OEM EXHAUST MANIFOLD GASKETS.

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
Universal or 10mm, 11mm, 13mm, Swivel Socket
10mm, 11mm, 13mm, 15mm Wrench

INSTALLATION:

1. Install the OEM exhaust manifold gasket on to the engine with the lower row of bolts installed 8-10 threads
Note: Gaskets are Left and Right side specific – the composite side is installed OUT toward the manifold (**Figure 1**).
2. Install BHS582, BHS583 or BHS584 manifold on to the lower row of bolts then install the upper row of bolts (**Figure 2**).
3. Tighten the bolts from the center out in steps to allow the gasket to compress evenly
Note: Not all bolt holes will be used on all engines.
4. Final torque on the header bolts should be approximately 28/30 ft. lbs.

Important: If your engine is equipped with the EGR transfer port on the passenger side cylinder head, make sure the gasket has the hole punched to allow exhaust gas to pass through this port on the header.



Figure 1



Figure 2

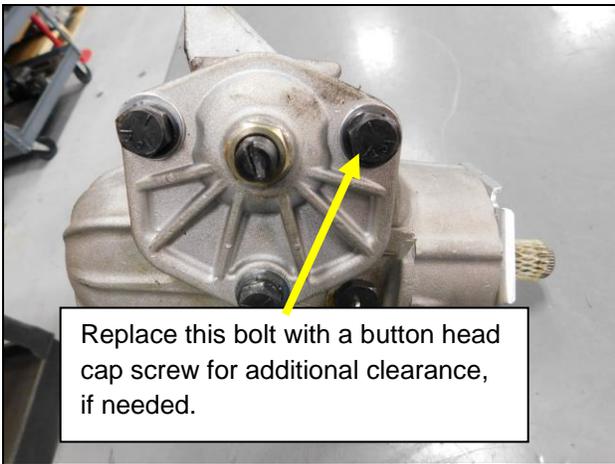


Figure 3



Figure 4

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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