



**1966-1970 B-Body Mopar GEN3 HEMI Swap  
P/N BH2358  
1 7/8" 304SS Long Tube Headers (5.7-6.1-6.2-6.4L)**



**Installation Instructions**

Thank you for choosing to use HOOKER™ engine swap Headers as part of your GEN3 HEMI Swap project. These headers 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 **P/N BHS531**. See compatibility below for part numbers and installation notes for supporting parts.
- Requires engine specific Exhaust MANIFOLD gaskets for proper exhaust port seal. See compatibility below for part numbers and installation notes for supporting parts.

Visit [www.holley.com](http://www.holley.com) for a complete selection of Transmission Crossmember, Headers, Exhaust, and more GEN3 HEMI support products to complete your B-Body Hemi Swap.

**COMPATIBILITY INFORMATION:**

These headers were specifically designed to be installed with **Hooker Blackheart** HEMI swap engine and transmission mounting components and exhaust systems for this same application. 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 clearances, or compatibility with the related HOOKER™ exhaust systems.

**Supporting Hooker Blackheart parts required for use with BH2358 headers:**

Engine Mounting Brackets – BHS531  
Transmission Crossmember – BHS532  
Transmission Adapter Plate – BHS534 (727), BHS535 (NAG1), & BHS536 (8HP70)  
Transmission Mount – 7722309HKR (or any standard 2 bolt Chevy Mount of the same design)

**Transmissions and Starters BH2358 headers are designed to work with:**

727 – With small truck starter  
46rfe – With small truck starter  
545rfe – Left or Right side starter  
Nag1 – Left or Right side starter  
8HP70 – Left or Right side starter  
TR6060 – Right side starter

**BH2358 Headers will fit the following engines:**

5.7L 2003 - 2008 Square Port Requires OEM Gasket P/N: 53013943AA and P/N: 53013944AA  
5.7L 2009 - 2020 D- Port Requires OEM Gasket P/N: 05038098AA and P/N: 05038099AA  
6.1L 2005 - 2010  
6.2L 2015 - 2020  
6.4L 2011 - 2020

- Will clear Factory Power steering
- Low mount A/C Compressors Require VVT Accessory Drive
- BHS531 Engine mounting plates required

## PARTS LIST:

Qty.	Description
1	Left Header
1	Right Header

## Accessory Pack Contents:

16	505R21	M8 x 25mm Header Bolts
2	599R94	Decal – Blackheart 2" x 4"
1	199R12009	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
24" Extension
Universal or 13mm Swivel Socket / 11mm Swivel Socket
7/8 Wrench

## INSTALLATION:

These instructions assume the engine and transmission are installed.

1. Install the lower row of header bolts with the exhaust manifold gasket in place on the left and right side of the engine.
2. Support the engine from the oil pan using a large piece of wood (2x6 works well) to protect the pan from damage.
3. Remove the (x2) engine mount bolts from the K- frame.
4. Lift the engine up and push it to the passenger's side as far as it will go.
5. Install the driver's side header into the car and hang the flange on to the lower header bolts. Take care not to damage the gasket.
6. Tighten the lower bolts until the flange starts to seat against the cylinder head. **\*DO NOT TIGHTEN THE BOLTS!**
7. Install the top row of bolts.
8. Tighten all the bolts evenly from the center out (some bolts may be easier to access with the engine on the mounts).
9. Let the engine down on to the mounts and install the engine mount bolts.
10. Install the passenger's side header into the car and hang flange on to the header bolts. Take care not to damage the gasket.
11. Tighten the lower bolts until the flange starts to seat against the cylinder head. **\*DO NOT TIGHTEN THE BOLTS!**
12. Install the top row of bolts.
13. Tighten all the bolts evenly from the center out.
14. Install the O2 sensors if they are being used.

### **NAG1 Transmission with Passenger side Starter Shown**



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

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**199R12009**

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