



1997-2004 Dakota 2WD GEN3 HEMI Swap

P/N: BH2374

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.

Racing applications only: This product is intended for “non-registered vehicles intended for track use only” - not legal for use on vehicles registered for operation on a public highway.

IMPORTANT:

- Requires Hooker Blackheart Engine Mounts **P/N BHS541**. 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.
- Right hand starter installations will require notching the K member for NAG1, 8HP70, 8HP90, and TR6060 installations. The use of a 6.2L starter is recommended to minimize the amount of material removed from the front K member. The 6.2L starter is required when using the BHS543 Filler plate.

Installation Note: It is possible to install BHS2374 headers with the transmission installed, but it is recommended to install the headers before the transmission to simplify the header installation.

Visit www.holley.com for a complete selection of Transmission Crossmember, Headers, Exhaust, and more GEN3 HEMI support products to complete your 1997-2004 Dakota 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 BH2374 headers

Engine Mounts – **BHS541**

Transmission Crossmember – **BHS542**

Transmission Adapter Plate – **BHS529** (46RFE, 545RFE), **BHS530** (727), **BHS527** (NAG1), & **BHS526** (8HP70),

Transmission Mount – **71223029HKR** (or any standard 2 bolt Chevy mount of the same design)

K Member Filler Plate – **BHS543** (For right hand starter installation that requires K Member clearance) 6.2L starter required

Transmissions and Starters BH2374 headers are designed to work with:

727 – Small truck starter

46RFE – OEM V8 starter

545RFE – Left or Right side small truck starter

NAG1 – Left or Right side starter ** See notes

8HP70 – Left or Right side starter ** See notes

TR6060 – Right Side Starter ** See notes

**** Right hand starter installations will require notching the K member for NAG1, 8HP70, 8HP90, and TR6060 installations. The use of a 6.2L Starter is recommended to minimize the amount of material removed from the front K member. The 6.2L starter is required when using the BHS543 Filler plate.**

BH2358 Headers will fit the following engines: (*see notes)

5.7L 2003 - 2008

5.7L 2009 - 2020

6.1L 2005 - 2010

6.2L 2015 - 2020

6.4L 2011 - 2020

*** BHS541 engine mounts required**

*** Square Exhaust Port requires OEM Gasket P/N: 53013943AA and P/N: 53013944AA**

*** D-Port exhaust requires OEM Gasket P/N: 05038098AA and P/N: 05038099AA**

PARTS LIST:

Parts List	
Qty.	Description
1	Left Header
1	Right Header

Accessory Pack Contents		
Qty.	P/N	Description
16	505R21	M8 x 25mm Header Bolts
2		M8 x 20 Socket Head Cap Screw
2	599R94	Decal – Blackheart 2" x 4"
1	199R12102	Instruction Sheet

Tools Needed
3/8" Metric Socket Set
24" Extension
Universal or 13mm / 11mm Swivel Socket
7/8 Wrench
6mm extended Allen socket or T-handle

*** 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.

INSTALLATION:

Important Note: It is possible to install BHS2374 headers with the transmission installed, but it is recommended to install the headers before the transmission is installed to simplify the header installation.

If no transmission is installed in the vehicle: Support the engine with a small block of wood between the firewall and engine or between the oil pan and K member to prevent damage to the engine mount bushings.

1. Remove the Left and Right inner fender wells.
2. Trim the Right (Passenger's side) control arm, as shown in **Figure 1**. Remove approximately 3/8" from the upper part of the flange at the front and rear bushing. Do not cut into the bushing mounting flange. It is only the excess material at the end of the control arm that needs to be removed. Radius and deburr all edges after trimming the control arm.

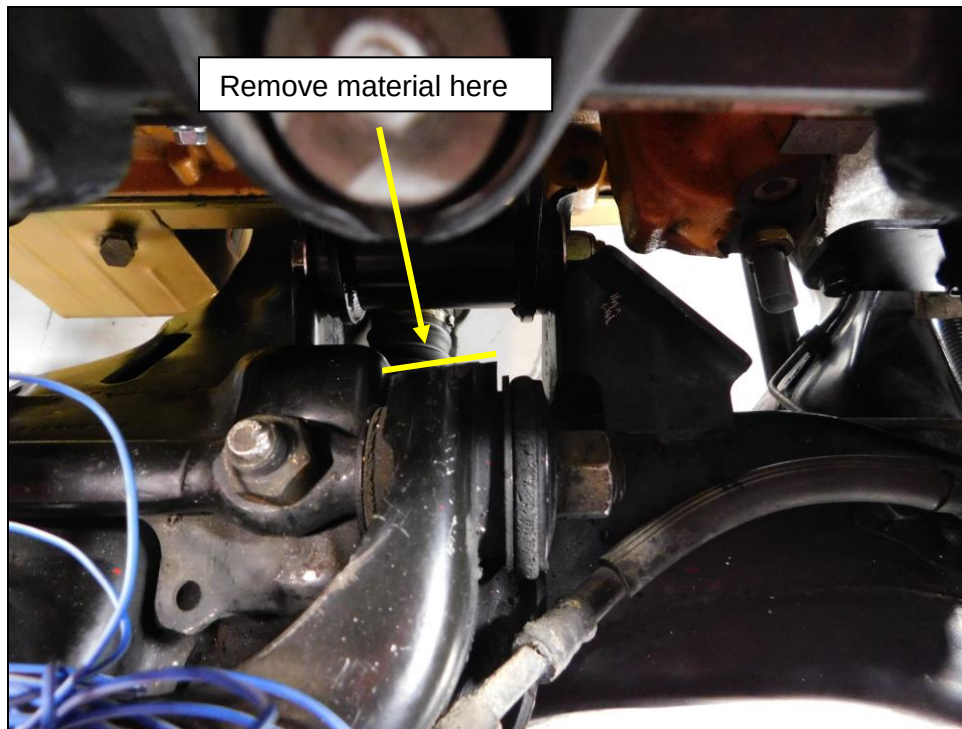


Figure 1

3. Remove the Left and Right knock sensors.
4. Install the Right (passenger's side) header into the car between the frame and engine into the wheel well area. Rotate the header into the engine and work the header flange past the inner fender leading edge. It may be necessary to push the inner fender in towards the engine as the header is installed.

NOTE: If the transmission is installed, it will be necessary to remove the heat shield on the firewall and jack the engine up off the engine mounts to install the right side header.

5. Install the Right OEM exhaust gasket with the bottom row of M8 x 25mm flanged header bolts a few threads. Lower the engine on to the engine mounts, if it was raised. Take care not to trap the header between the frame and block.
6. Install the header on to the bottom row of bolts and tighten the flanged header bolts until the header flange is touching the gasket but is still loose on the bolts. Install the upper row of flanged header bolts except the rear bolt. This will require the supplied M8 x 20mm socket head cap screw for access (**Figure 2**).
7. Tighten all the bolts evenly from the center out.

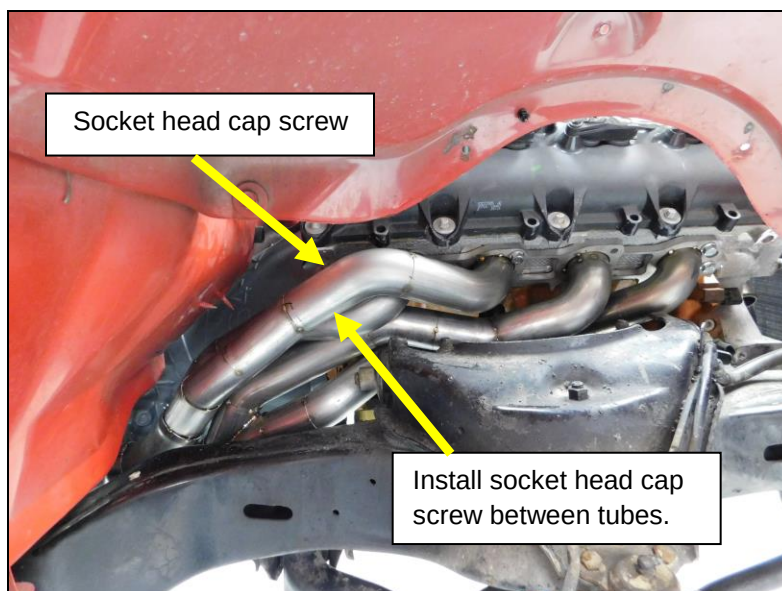


Figure 2

8. Install the Left (driver's side) header into the car.
9. Install the Left OEM exhaust gasket with the bottom row of M8 x 25mm flanged header bolts a few threads.
10. Install the Left header on to the bottom row of bolts and tighten the flanged header bolts until the header flange is touching the gasket, but is still loose on the bolts. Install the upper row of flanged header bolts.
11. Tighten all the bolts evenly from the center out.
12. Install the knock sensors, if they are being used.
13. Install the O2 sensors, if they are being used.
14. Retorque all header bolts after installation.

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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