



1987-2006 JEEP WRANGLER LS & LT ENGINE SWAP HEADERS BH13209 (LS engines) and BH13210 (LT engines) Installation Instructions



BH13209



BH13210

Thank you for choosing to use Hooker Blackheart products on your 1987-2006 Jeep Wrangler engine swap project. These headers are part of the most comprehensively designed engine swap system available for installing a GM LS, or LT engine into a Jeep YJ, or TJ/LJ application. They have been specifically designed to connect directly to the Hooker Blackheart Y-pipe and exhaust systems that are also part of this swap system. These headers are designed to be used on Jeep Wrangler vehicles that are built/assembled for off-road/racing use only. LS/LT swapped Jeep Wrangler vehicles that are built/assembled for street use should be equipped with factory exhaust manifolds and catalytic converters that are approved for use in this engine swap application.

PRE-INSTALLATION CONSIDERATIONS:

Check that the hardware package includes the following:

| BH13209 | | BH13210 | |
|----------------|------------------------|----------------|------------------------|
| Qty. | Description | Qty. | Description |
| 2 | 2.5" V-Band Clamps | 2 | 2.5" V-Band Clamps |
| 2 | 2.5" V-Band Flanges | 2 | 2.5" V-Band Flanges |
| 12 | M8 x 1.25 Header Bolts | 10 | M8 x 1.50 Header Bolts |

If any listed hardware is missing, please contact Technical Service at: 1-866-464-6553 or 270-781-9741.

IMPORTANT! Position and support your vehicle on a suitable surface. **USE CAUTION AND WORK ONLY ON A LEVEL SURFACE USING JACKS AND JACK STANDS OF SUFFICIENT CAPACITY TO LIFT AND SUPPORT YOUR VEHICLE. NEVER WORK UNDER A VEHICLE SUPPORTED BY A FLOOR OR BUMPER JACK.** Use of a two-post under arm lift or four-post drive-on lift will considerably reduce the time and effort required to complete the installation. **MAKE SURE LIFT LOCKS ARE ENGAGED BEFORE WORKING UNDER THE VEHICLE.**

INSTALLATION:

NOTES: These headers are specifically optimized for installation with Hooker Blackheart 1987-1995, or 1997-2006 Jeep Wrangler LS/LT swap engine and transmission mounting brackets. They will most likely also fit with other brand engine mounting brackets that permit the engine to be installed at the stock crankshaft centerline offset position in the frame; steering shaft interference should be expected with mounting brackets that do not.

The two supplied V-band flanges are provided for users who intend to fabricate their own Y-pipe. The supplied V-band clamps will be used for installing any user-fabricated Y-pipe or the Hooker Blackheart Y-pipe available for this application.

The BH13209 LS swap headers will permit the stock A/C accumulator to remain installed next to the firewall (on TJ/LJ applications) by modifying the battery tray, bending the accumulator tubing to push the accumulator over closer to the battery.

The BH13210 LT swap headers do not provide the same functionality on TJ/LJ applications and will require the A/C accumulator to be remotely located. If the A/C system must be opened up to permit modification to, or relocation of the accumulator, be sure to have the refrigerant recovered from the system in an environmentally appropriate and legal manner. Recharge the system following the completion of your engine swap.

Installation of the left side BH13210 LT swap header assembly onto the engine will require the use of an aftermarket oil dipstick tube or slight bending of the bottom half of factory dipstick tube to provide clearance for the header collector V-band flange/clamp. This is needed to provide maximum front driveshaft clearance.

These instructions have been written under the assumption that you have already installed an engine/transmission into your vehicle using Hooker Blackheart engine/transmission mounting components.

1. Remove any existing header, or manifolds from the engine, which includes removing the engine oil dipstick tube.
2. Remove the front fenders/inner fenders.
3. Feed the driver's side header into position from under the vehicle and attach it to the cylinder head using the supplied M8 bolts and a user-supplied GM LS or LT exhaust manifold gasket. Do not tighten the bolts at this time.
4. Feed the passenger's side header into position from the side of the vehicle and attach it to the cylinder head using the supplied M8 bolts and a user-supplied GM LS or LT exhaust manifold gasket. Do not tighten the bolts at this time.
5. Leave the header bolts slightly loose if you are going to be connecting a Hooker Blackheart Hemi swap Y-pipe to your headers. Tighten the bolts fully now, if you will be fabricating your own Y-pipe.
6. Install the engine oil dipstick tube. If this is an LT engine installation, you will need to modify/bend the stock dipstick tube to clear the V-band flange/clamp on the driver side header collector.
7. Install the fenders.

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

COMPATIBILITY INFORMATION:

These headers will be compatible with the Hooker Blackheart LS/LT Y-pipe and Hooker Blackheart 1987-1995, or 1997-2006 Jeep Wrangler 3" engine swap exhaust systems in instances where the engine and transmission have been installed using Hooker Blackheart LS/LT engine swap mounting components; use of other brand/type of engine and/or transmission mounting components will have a negative effect on this compatibility.

If needed, additional compatible LS/LT engine swap components, such as EFI fuel control systems, fuel filters, fuel pumps, plumbing hose/fittings, valve covers and accessory drive brackets can be found at www.holley.com.

LIMITATION OF LIABILITY – DISCLAIMER:

The regulation of emissions production, noise levels, and safety standards is undertaken by the federal government, each of the fifty state legislatures, and by many local municipalities, towns, and counties.

HOOKER™ makes no warranties of merchantability, of fitness for particular purpose, or that its products are approved for general use, or that its products comply with laws, regulations, or ordinances in the state where they may be sold to the ultimate purchaser, the consumer.

Unless expressly stated to the contrary in the catalog, instruction sheet; or price list, the entire risk as to the conformity of any company product in any such state and as to repair should the product prove to be defective or non-conforming, is on the retail purchaser, the buyer, the ultimate consumer, of such product and it is not upon the seller, distributor, or manufacturer.

In this connection, the retail purchaser, the buyer, the ultimate consumer assumes the burden of the entire cost of any and all necessary service, alterations, or repair.

THE FOREGOING STATEMENT LIMITS THE LIABILITY OF THE MANUFACTURER.

California vehicle code, sections 27156 and 38391, prohibits the advertising, offering for sale, or installation of any device, which modifies a vehicle's emission control system, unless exempted, unless otherwise noted. HOOKER™ Headers that have not received an Executive Order (E.O.) exemption from these code sections are not legal for sale or use in California on vehicles originally equipped with catalytic converters, except for racing vehicles, which may never be driven upon a highway. Check with your local authorities to determine if these headers are legal for use in your particular area.

Technical Service: 1-866-464-6553

Phone: 1-270-781-9741

For online help, please refer to the Tech Service section of our website: www.holley.com

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