



1988-1998 GM K1500 (4WD) Optimized LS/LT Engine Mounting Brackets P/N's BHS580 & BHS581

Installation Instructions



BHS580



BHS581

Thank you for choosing to install Hooker Blackheart products on your 1988-1998 GM K1500 truck project. These engine mounting brackets are designed specifically for use with Hooker Blackheart engine mounts only. The factory vehicle 4.3L V6 or V8 motor mounts/brackets must be removed from the frame in order to install and use these mounting brackets

PRE-INSTALLATION CHECK:

The proprietary design geometry of these engine mounting brackets requires them to be used with specific Hooker Blackheart engine mounting components to be able to install the engine. These additional components are to be purchased by the user as follows:

- 71221016HKR (black), or 71221017HKR (red) poly inserts (2 required)
- 71221018HKR LS clamshell (2 required)
- 71221019HKR LT clamshell (2 required)
- 71223015HKR engine mount through-bolt hardware kit (1 required)

Check that the hardware package includes the following:

BHS580 & BHS581	
Qty.	Description
8	M10 Bolts
8	M10 Nuts

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:

1. Identify the left and right bracket assemblies. The left (driver's) side bracket has a semi-circle identification notch along the front edge of its base plate and the right side (passenger's) bracket has a "V" notch in the same location.
2. Remove the existing factory motor mounts and/or brackets from the vehicle frame and discard them.
3. If installing rear-biased mounting brackets, attach the left and right side mounting bracket assemblies to the vehicle frame using the supplied M10 fasteners in the three holes in each side of the frame that line-up with holes in the mounting brackets. Then, drill new holes through the frame that correspond to the blocked hole in each mounting bracket and install M10 bolts/nuts into these holes also. Now, tighten all the bolts/nuts.
4. If installing forward-biased engine mounting brackets, attach the left and right side mounting bracket assemblies to the vehicle frame using the supplied M10 fasteners. Now, tighten all the bolts/nuts.
5. Once the fasteners are installed, tighten them all uniformly.
6. Install Hooker Blackheart clamshell mounts and inserts onto the engine and then install the engine into the vehicle and couple it to the frame mounting brackets with the Hooker Blackheart engine mount through-bolt hardware kit.

COMPATIBILITY INFORMATION:

Each of these engine mounting bracket sets permits an LS or LT engine to be mounted in a different and discrete fore-aft position. The rear-biased mounting bracket set places the engine/transmission mating plane in the stock SB Chevy fore-aft location to allow the mounting position of any factory installed transmission, transfer case and driveshafts to remain unchanged. An LS-spec 4L60/4L65/4L70, or a 6L80 automatic transmission can also be installed at this mounting position, while allowing the factory mounting position of the transfer case and driveshafts to remain unchanged. Use GM transfer case adapter number 15724744 for 4L60/4L65/4L70 installations and adapter number 24241166 for 6L80 installations.

The forward-biased mounting bracket set has been designed to permit the installation of a 4L80 or 6L90 automatic transmission in front of the stock transfer case, while leaving the stock mounting position of it and the driveshafts unchanged. Use GM transfer case adapter number 15724745 for 4L80 installations and adapter number 84203236 for 6L90 installations.

Be aware that mounting an LT engine in the rear-biased position may not allow the stock plastic cover of the right side valve cover to clear the firewall without the plastic cover being modified.

All above mentioned transmissions are installed using the stock transmission crossmember and 1988-98 K1500 transmission mount. Some transmissions may require the crossmember to be relocated fore/aft on the frame.

Most low-mount accessory drive components are not usable in this application, including the LT truck mechanical vacuum pump, due to the design geometry of the K1500 frame.

If needed, additional compatible LS 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

© 2021 Holley Performance Products, Inc. All rights reserved.

199R12261

Revision Date: 3-24-21