



# 1988-1998 GM C1500 (2WD) Optimized LS/LT Engine Mounting Brackets

P/N's BHS554 & BHS564

## Installation Instructions



BHS554



BHS564

Thank you for choosing to install Hooker Blackheart products on your 1988-1998 GM C1500 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:

BHS554		BHS564	
Qty.	Description	Qty.	Description
9	M10 Bolts	8	M10 Bolts
9	M10 Nuts	8	M10 Nuts
2	M8 Bolts		
2	M8 Nuts		

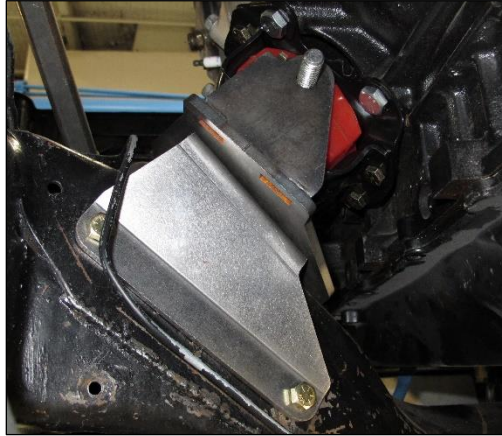
If any listed hardware is missing, please contact Technical Service at: 1-866-464-6553 or 270-781-9741.

**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. Using the supplied M10 fasteners, attach the left and right side mounting bracket assemblies to the vehicle frame using the three holes in each side of the frame that line-up with holes in the mounting brackets.
4. If installing rear-biased engine mounting brackets, attach the supplemental rear support bracket to the rear of the driver's side mounting bracket using the supplied M8 and M10 fasteners and the existing holes in the mounting bracket and vehicle frame. Refer to the image on the next page for the proper installed location and orientation of this bracket.
5. Once the fasteners are installed, tighten them all uniformly.
6. Drill new holes through the frame that correspond to the blocked holes in the mounting brackets and install M10 bolts/nuts into these holes and tighten them.

7. 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.



**Proper rear-biased left-side supplemental support bracket installation orientation**

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)

### **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 location to make using any transmission that was factory installed behind a V8 engine a drop-in exercise. The forward-biased mounting bracket set provides for a more optimized shifter location for T56 Magnum manual transmission installations and also increased accessory drive component clearance.

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.

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](http://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.

HOKKER™ 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. HOKKER™ 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](http://www.holley.com)**

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