



1982-1992 GM F-Body LS Swap Engine Mounting Brackets 71221003HKR

Installation Instructions



Thank you for choosing to use Hooker Blackheart engine mounting brackets as part of your LS swap project. These mounting brackets 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.

PRE-INSTALLATION CONSIDERATIONS:

Installation of these engine mounting brackets requires the use of 1998-2002 GM Camaro/Firebird LS1 engine motor mounts. GM replacement rubber mounts (part number 22179268) or Hooker/Holley polyurethane motor mounts (71221018HKR clamshell housings and 71221016HKR or 71221017HKR inserts) are recommended. Aftermarket poly motor mount inserts from other sources have been found to deviate from factory design specifications and will cause installation issues.

The long horizontally installed through bolts/nuts that couple the engine mounts to the Hooker Blackheart engine brackets are to be user supplied. Stock GM bolts/nuts or the Hooker Blackheart 71223015HKR hardware kit are recommended to be used.

COMPATIBILITY INFORMATION:

When used with the related Hooker Blackheart **71222005HKR** transmission crossmember, these engine swap mounting brackets will replicate the factory engine/transmission inclination angle used in 1982-92 V8 GM F-body applications.

This engine swap mounting bracket kit requires the use of a Holley® **302-2** or **302-3** oil pan for installation and provides engine compatibility with all Holley and stock GM accessory drive systems (GM truck accessory drive system alternator will not clear the stock hood).

More LS engine performance components, such as EFI fuel control systems, fuel filters, fuel pumps, plumbing hose/fittings and valve covers can be found at www.holley.com.

BEFORE BEGINNING:

Check that the hardware package includes the following:

Qty.	Description
8	3/8 x 1" Bolts
8	M10 x 1.5 x 25mm Bolts
8	3/8 Nylon Lock Nuts

INSTALLATION:

1. Detach the two stock brake line hold-down clips that are attached to the K-member directly behind the engine mounts.
2. Remove the factory engine mounts from the K-member and clean the bracket mounting surfaces.

3. Attach the Hooker Blackheart engine mounting brackets to the K-member, as oriented in **Figure 1**, using the supplied 3/8" bolts/nuts.



Figure 1

4. Relocate the brake line clips to a suitable area on the K-member and reattach them by drilling new holes for the factory screws.
5. Install new motor mounts onto the LS engine to be installed.
6. Install the engine/transmission assembly onto the Hooker Blackheart engine brackets and couple the engine mounts to the engine brackets using the user-sourced bolts/nuts.
7. Raise the rear of the transmission as high as it will go and install the Hooker Blackheart **71222005HKR** transmission crossmember per the instructions included with its packaging.
8. Your LS swap engine and transmission are now mounted and ready to be outfitted with headers and an exhaust system. Hooker Blackheart 3rd-Gen LS swap headers and dual exhaust systems are specifically designed for use with these engine mounting brackets.

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