

INSTALLATION GUIDE

LS Engine Swap Motor Mounts

1978-87 GM G-Body Cars (El Camino, Monte Carlo [thru-88], Regal, Cutlass, Grand Prix)

PART # 4206

#4206 MOTOR MOUNT KIT COMPATIBILITY

While this mount kit *may* be compatible with competitive brand headers and transmission crossmembers, this LS engine swap mount kit was designed in conjunction with, and intended to be installed with, Hedman Hedders' # 68020 series of LS into 78-87 A-Body/G-Body headers (*applicable header numbers: 68020, 68023, 68026,*), and Trans-Dapt Performance Products' Transmission cross member (*number: 6422*). Factory GM Aluminum oil pan will most likely impact the K-member and interfere with engine installation. We recommend the use of a Hamburger's Oil Pan (#'s 1108, 0171, 0172, 0173 or 0174), which provides additional k-member clearance. A 0171 pan was used for this installation. Trans-Dapt Performance Products cannot guarantee a successful installation of your LS engine if these mounts are installed using any headers or transmission crossmember, other than those listed here.

READ ENTIRE INSTALLATION GUIDE BEFORE BEGINNING THIS INSTALLATION

These mounts are designed specifically for installing an LS engine into 1978-87 GM G-Body Passenger Cars (through 1988 for Monte Carlo). The vehicle used to document the installation was a 1988 Monte Carlo SS, and the LS was installed with a 4L60E. Installation on other GM models, or model years, may vary from what is shown.

This is a complex engine swap project that may require cutting, drilling or other modification to the vehicle. There are many installation factors to consider when performing this engine swap and exact steps may vary from project-to-project. This installation guide offers general instructions for the proper installation of the engine mounts only. For further details regarding any other aspect of the engine swap, we recommend the use of a published how-to guide, dedicated to the engine swap project you are about to perform. This is an advanced user project. If you're uncomfortable with any aspect of it, we suggest you consult with a certified mechanic.

The brackets included in this kit are shipped with temporary black finish to protect them from corrosion while awaiting installation. This finish is not intended to be the final finish. Thoroughly clean these components to the bare metal before applying any final coating or paint finish.

THIS KIT CONTAINS

1pr. Engine Brackets
1pr. Rubber mount Pads
2pc. 7/16"-14 x 5" Hex Head Bolts
2pc. 7/16"-14 Nylon Insert Locknuts
4pc. 7/16" Flat Washers
8pc. 10mm-1.5 x 30mm Hex Head Bolts
8pc. 3/8"-16 x 1" Hex Head Bolts
8pc. 3/8"-16 Nylon Locknuts

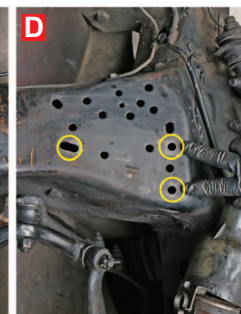
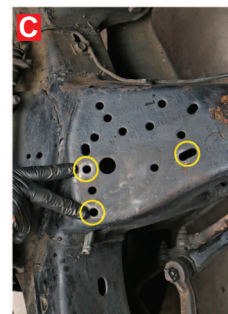
IMPORTANT NOTES REGARDING THIS INSTALLATION:

This installation guide assumes the engine & transmission (and transmission crossmember) have already been removed, and the chassis prepped for installation. Depending on the transmission being used, modification will be required. For this install, a 4L60 transmission was used, requiring the pinch weld in the transmission tunnel to be folded over to provide clearance for the transmission case (see ill. H on page 2). Keep in mind, the bigger the transmission, the bigger the required modification.

INSTRUCTIONS

1. Remove any mounting brackets or pads from the LS engine block to be installed.
2. Remove both factory clamshell-style pads from the sub-frame. To gain access to the fasteners securing the pads on the underside of the K-member, raise the front of the car and support it with jackstands. This will provide more clearance to reach up and remove the nuts, and free the pads (see ill. A). Take note that the factory pads only use 3 bolts. The new pads included in this kit will also use 3 bolts each.
3. Using (3) 3/8"-16 x 1" hex bolts and locknuts per side (*included*), attach the new rubber pads to the sub-frame by installing the locknuts from beneath the k-member (the reverse of removal). Mount the pads using the holes highlighted to the right (see ill. C & D) The two top mounting bolt holes on the mount pad are separated more than the bottom two bolt holes. When bolting the mount pad to the K-member make sure the wider bolt pattern is at the top (see ill. B).
4. Using four 10mm-1.5 x 30mm bolts (*included*) on each side of the block, securely bolt the engine block brackets to the LS engine to be installed.

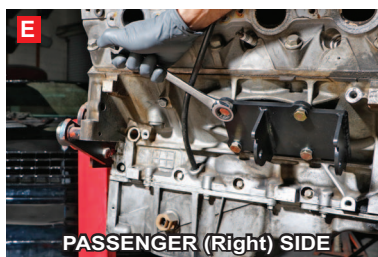
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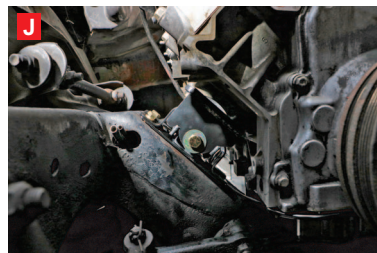
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[step 4 continued] When installed correctly, the pad mounting ears are positioned to the front of the vehicle, the four engine block mounting holes are to the rear, and the step in the engine block bracket plate is on the top (see ill. E and F).

- With the engine (or engine and transmission) securely suspended by an engine hoist and load leveling device (Trans-Dapt #9099 Engine-Tilter™), carefully lower the LS engine into the chassis until the through bolt holes on the engine brackets align with the through-bolt holes in the mount pads installed on the k-member. When aligned, loosely connect each engine block adapter plate to the engine pad using a 7/16"-14 x 5" bolt, 2 flat washers and nylon lock nut, all included with this kit. If the transmission is attached, support the tail of the transmission.



- Inspect the engine's position to ensure proper alignment. If the engine is satisfactorily positioned, tighten the 5" engine mount connector bolts and nuts.
- If the transmission is supported, you may unhook the engine from the engine hoist.
- When properly installed, the engine mounts will look similar to the images shown (see ill. I & J)
- The engine mounting portion of your LS project is now complete.



OTHER QUALITY HEDMAN PERFORMANCE GROUP COMPONENTS FOR YOUR G-BODY / LS ENGINE SWAP PROJECT!

Headers For LS into 78-81 GM A-Body / 82-87 GM G-Body (+’88 Monte Carlo):

1-3/4" Mid-Length Design	Uncoated Mild Steel	#68020
1-3/4" Mid-Length Design	BLACK-MAXX Black Ceramic Coated Mild Steel	#68023
1-3/4" Mid-Length Design	HTC Polished Silver Ceramic Coated Mild Steel	#68023

Transmission Crossmember For LS into 78-81 GM A-Body / 82-87 GM G-Body (+’88 Monte Carlo):

T56, TH400, 4L60E, 4L80E	#6422
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FOR A FULL LIST OF LS SWAP PRODUCTS, VISIT www.LSSwapCentral.com