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Installation guide for 1964-72 GM ½-ton full-size trucks – 2wd



Hardware and Parts List

<i>Quantity</i>	<i>Item</i>
2	Frame Brackets
6	3/8"-16 x 1" Frame Bracket to Frame Bolts
6	3/8" Flat Washers
6	3/8"-16 Nylon Lock Nuts
2	Engine Mounts
8	10mm-1.5 x 25mm (Allen Head) Engine Mount to Block Bolts
2	½"-13 x 4" Engine Mount to Frame Bracket Bolts
2	½"-13 Nylon Lock Nuts
1	Transmission Crossmember
2	Crossmember brackets
1	Polyurethane Transmission Mount
4	3/8"-16 x 1" Trans Crossmember to Bracket Bolts
4	3/8"-16 x 1" Trans Crossmember Bracket to Frame Bolts
8	3/8" Flat Washers
8	3/8"-16 Nylon Lock Nuts
1	7/16"-13 x 1" Transmission Mount Bolt
1	7/16" Flat Washer

Installation Notes

- This kit works with the LH8, 98-02 F-body and BRP High Clearance oil pan.
- OE truck PS/Alt clears the frame, OE truck AC clears the frame, but lines will be close.
- 98-02 F-body PS/Alt clears the frame, 98-02 F-body AC hits the lower frame mount.
- OE truck mechanical fan lines up properly and fits factory fan shroud.
- 4L60E and 6L80E automatics clear the factory trans tunnel.
- T56 and TR6060 manual transmissions may require minor clearancing.
- Mid-length headers require moving brake lines on driver side of frame forward 2"-3".

Step 1: Locate the Driver's Side (LEFT) and Passenger's Side (RIGHT) frame brackets and loosely bolt them to the frame using the supplied frame bracket hardware.

Step 2: Locate the Driver's Side (LEFT) and Passenger's Side (RIGHT) motor mounts and loosely bolt them to the engine using the supplied 10mm allen head bolts.



Step 3: Lower the engine/trans assembly into the chassis and align the frame brackets to the engine mounts holes and loosely install the ½"-13 x 4" bolts, flat washers and nylon lock nuts.

Step 4: Lift the rear of the transmission using a floor jack. Install the polyurethane transmission mount on the transmission, making sure that you install the provided preload plate (gold in color) and the proper amount of aluminum spacers (silver in color) for the transmission you are using (your kit will include the proper number of spacers).

Step 5: Loosely bolt the transmission crossmember frame brackets to the transmission crossmember. Loosely bolt the crossmember assembly to the mount on the transmission using the 7/16"-13 x 1" bolt and the 7/16" flat washer.



Step 6: Mark the crossmember bracket mounting holes on the frame and drill them with a 25/64" drill bit. Loosely install the crossmember to frame bolts (3/8"-16 x 1" bolts, flat washers and the 3/8"-16 nylon lock nuts). NOTE: The image shows the transmission crossmember bracket height location and orientation. To ensure proper fitment of engine, transmission and headers, the bottom of the black brackets should be 2.5 inches from the bottom of the lower lip of the frame rail. The outer lip of the brackets should point down as shown in picture. Fore and aft placement will be determined by your transmission choice while the engine is installed with the Muscle Rods frame and engine mounts in place.

Step 7: Once everything is installed correctly and lined up properly, go back and tighten the engine mount to block bolts, engine mount to frame bracket bolts, frame bracket to frame bolts, transmission mount to transmission bolts, transmission mount to crossmember bolts and transmission crossmember to frame bolts.

As always, if you have questions about the installation don't hesitate to call or email us. We're here to help!



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