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LS Installation Guide for 1963-1972 2WD GM Trucks



Hardware and Parts List

NOTE: All motor mounts come with a lifetime warranty and free replacement upon return of any mount or bracket.

Quantity	Item
2	Frame Brackets
2	Motor Mounts
1	Transmission Crossmember
1	Polyurethane Transmission Mount
2	Crossmember side brackets
1	Bolt kit

Installation Notes

- The GM LH8 oil pan is flush with the bottom of the lower control arm mount. Many factory GM oil pans will fit with the exception of the 2010-2017 LS Camaro oil pan.
- Factory truck mechanical fan lines up and fits with stock radiator shroud
- Most late model transmissions will fit in the factory trans tunnel without modification to the floor 4l60e, 4l80e, 6l80e, 6l90e, 8l90e, and 6 speed manuals
- Some low mount LS factory A/c compressors may interfere with the frame, we recommend using Kwik Performance accessory brackets if necessary

Locate the Driver's Side (LEFT) and Passenger's Side (RIGHT) frame mounts and loosely bolt them to the chassis using the supplied 3/8" bolts. Notice the two upper bolts bolt into the front two holes on the top of the frame. The lower bolt will line up with the rear most hole in the K member, some truck years did not have this hole. You will have to drill this hole out if it is not in your frame. The bolts will be tightened after the engine is set in place and everything is lined-up



Bolt the Driver and Passenger side engine mounts to the engine block in the correct orientation as shown in the photos



Lower the engine into the chassis aligning the engine mounts over the frame mounts and loosely install the ½"-13 x 3.75" bolts, and nylon lock nuts. (you will have to support the rear the transmission in order to get the long ½" bolts to slide in all the way through the engine and frame mount assembly)



With the engine and frame mounts loosely bolted into the chassis, you can now install the Crossmember to the frame rails of the chassis. The transmission you have chosen will determine the fore and aft location of the Crossmember outer support brackets. The height of the brackets should be 2.5" from the bottom of the bracket to the bottom of the frame lip as shown in the photo. Use a 3/8" drill bit to drill the new holes to bolt the brackets to the chassis.







Once you have checked to make sure that everything is installed correctly and lined up 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.



The Muscle Rod line of headers from Husler is designed to bolt in with this kit for an easy bolt in install with great performance and fitment.

Road test your vehicle to familiarize yourself with it's new handling characteristics. BRP cannot supervise your installation of these parts and systems cannot be held responsible more than the cost of the kit and/or parts. The vehicle should be operated normally. Contact BRP if you need anything or if we can be of assistance. (Check the BRP web site for additional help).

Thank you for purchasing a Muscle Rod conversion kit proudly made in the USA.