

READ ENTIRE INSTALLATION GUIDE BEFORE BEGINNING THIS INSTALLATION

These mounts are designed specifically for installing an LS engine into 1955-1957 Chevy Passenger cars (aka Tri-5).

This is a complex engine swap project that requires drilling, and may require cutting or other modifications 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 and frame stands included in this kit are shipped with a temporary black finish to protect them from corrosion while awaiting installation. This finish is not intended to be the final protective or decorative finish. Thoroughly clean these components to the bare metal before applying any final coating or paint finish.

THIS KIT CONTAINS

1pr.	Engine Adapter Plates
1pr.	Frame Stands
1pr.	Rubber Engine Pads (#4199 only)
1pr.	Polyurethane Engine Pads (#4200 only)
2pc.	7/16"-14 x 3-1/2" Hex Bolts Gr. 8
2pc.	7/16"-14 Nylon Insert Locknuts
4pc.	7/16" Flat Washers
6pc.	3/8"-16 x 3/4" Hex Bolts Gr. 8
8pc.	3/8"-16 x 1" Hex Bolts Gr. 8
8pc.	3/8"-16 Nylon Locknuts
14pc.	3/8" Split Lockwashers
4pc.	10mm-1.5 x 25mm Flat Socket Bolt Gr. 12.9
4pc.	10mm-1.5 x 30mm Hex Bolts Gr. 10.9

This installation guide assumes the engine and transmission have already been removed from the chassis, the chassis is prepared to accept the new engine (with the exception of the frame stands included in this kit), and all engine mounting devices have been removed from the LS engine being installed, as well as, the chassis.

PREPARING THE ENGINE BLOCK

The following steps will explain how to adapt the LS block's mounting location.

1. To install this kit's adapter plates, you will be using the four holes in a rectangular pattern, located on both sides of the LS block (*ill. A*).

2. Bolt the LS adapter plates to the block using two 10mm x 30mm hex head bolts and two 10mm x 25mm countersunk flat head socket bolts (*ill. B*). Apply a small amount of removable threadlocker to the bolts before threading them into the block. On some LS blocks, the lower, driver side alternator bracket bolt will need to be removed to install the adapter plate



Alternator bracket bolt.

(see image to the left).

3. The adapter plates each have three threaded bolt holes in the shape of an upside-down triangle. Bolt a supplied isolator pad (rubber or polyurethane) to each plate using three 3/8"-16 x 3/4" hex bolts and lock washers per side (*ill. C*). On some blocks, the mount hole support webbing may impact the bolt tip, preventing it from fully threading into the plate. Always check that the bolts fully thread into the plate. If interference is encountered, shorten the affected bolt, source a shorter 3/8"-16 x 5/8" bolt, or create a minor relief in the block to accommodate the supplied 3/4" long bolts. The LS block is now prepared to be attached to the engine frame stands.

illustration A



illustration B

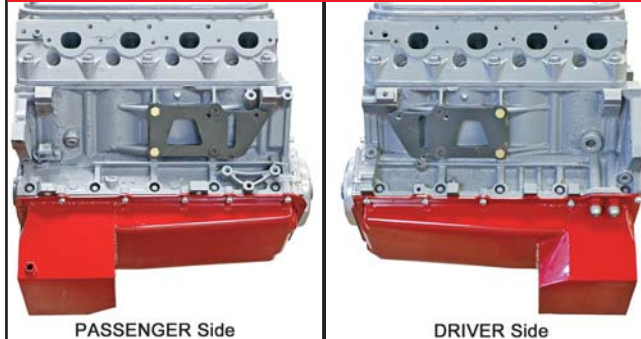
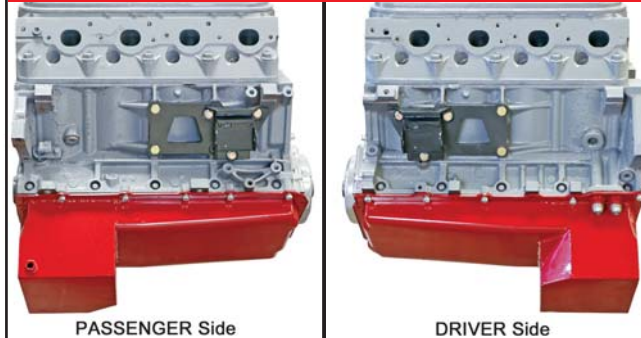


illustration C



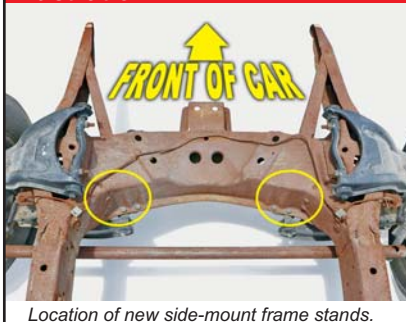
PREPARING THE TRI-5 FRAME

The following steps will explain how to prepare the Tri-5 chassis to accept the new, modern-technology LS engine.

4. Make sure you have good access to the area that needs to be modified for the frame stands. Highlighted in Yellow (*ill. D*).

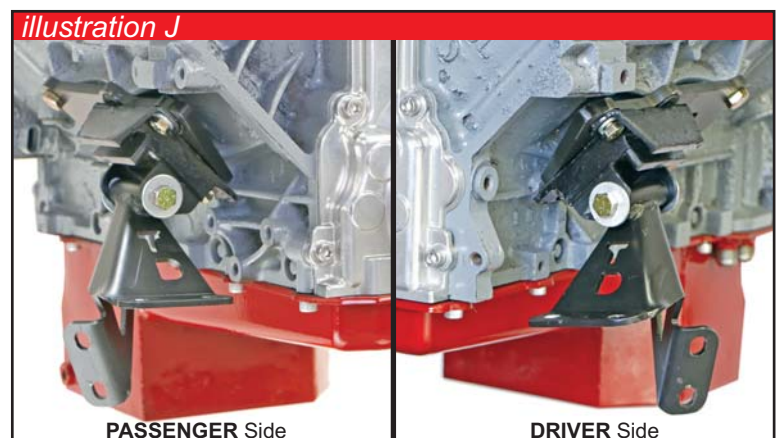
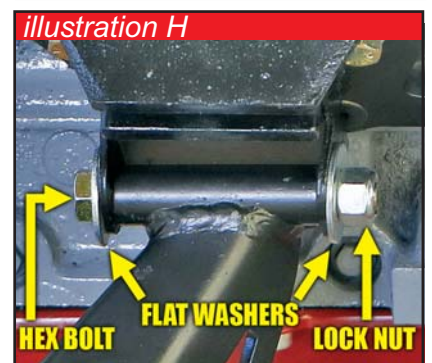
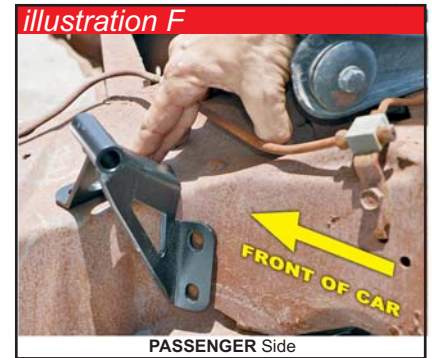
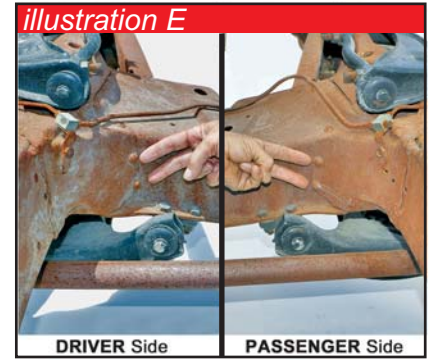
5. To install the frame stands, first grind off the heads of the four rivets shown (*ill. E*). Next drill, or punch out, the rivet bodies using a 3/8" drill bit or punch to expose the rivet holes. You will use these rivet holes (2 per side) to bolt the engine stands to the Tri-5 frame. See mockup on page 2 (*ill. F*). Place the engine stand in position and confirm that the holes in the frame align with the holes in the engine stand. True the holes and enlarge, as needed, to insert the included 3/8"-16x1" hex bolts.

illustration D



Location of new side-mount frame stands.

6. Using two 3/8"x1" Hex bolts, lockwashers and locknuts per side, bolt the engine stands to the frame. Refer to the photo to the right (*ill. G*) for the correct orientation of the engine stands. The photo demonstrates the orientation of the engine stands, as if you were standing in front of the vehicle, looking into the engine bay.
7. Once bolted to the frame, use the stands themselves as a drill guide to drill two 25/64" holes into the top of the frame for each frame stand.
8. Using two 3/8"x1" Hex bolts, lockwashers and locknuts per side, finish bolting the engine stands to the frame using the newly drilled holes.
9. With the engine securely suspended by an engine load leveling device and sufficiently rated engine hoist, lower the engine into the engine bay until the bolt holes in the tabs on the engine mount pads align with the connector tube on the new frame stands. Connect the engine to the frame stands by first sliding a large 7/16" flat washer onto a 7/16-14 x 3-1/2" hex bolt, then inserting the bolt through the two tabs on the mount pad and the connector tube on the frame stands. Install a second washer to the connector bolt, then install a 7/16"-14 Nylon locknut (*ill. H*). When completely assembled, the engine mount system will look like the photos below (*ill. J*). Repeat this process for both sides of the engine.
10. If the engine was installed together with the transmission, support the transmission, then carefully detach the engine from the engine hoist.
11. Inspect the engine placement and pinion angle, and adjust as needed to achieve the desired pinion angle.
12. The engine mounting portion of your LS project is now complete.



#4199/4200 MOTOR MOUNT KIT COMPATIBILITY

While this mount kit *may* be compatible with competitive brand headers, this LS engine swap mount kit was designed to be compatible with Hedman Hedders' #68740 series of LS Engine Swap Cast Manifolds (*applicable part numbers: 68740, 68743, 68746, and 68748*). Trans-Dapt Performance Products cannot guarantee a successful installation of your LS engine if these mounts are installed using any aftermarket headers.