



502 S 5th Ave E, DeWitt, IA 52742 Phone: 866-897-2787 Email: sales@tinworksfabrication.com

Installation instructions

Thank you for choosing Tinworks Fabrication!!!

Note: Read the instructions thoroughly before installation of parts. Confirm that all hardware and parts are received before starting install.

Warning: DO NOT work under a vehicle only supported by a jack. Place stands under the manufacturer's specified locations.

DO NOT drive the vehicle until all work is complete and all hardware has been torqued to specification.

Reminder: Use of proper personal safety equipment including eye, face, and hand protection is necessary when using the recommended tools to perform this install

If you have any questions about our products, you can call 866-897-2787 or email us at sales@tinworksfabrication.com

63-72 LS Full LS Swap Kit

PN: 6372-C10-FLS

Recommended Tools:

- Safety Glasses
- 9/16" wrench and socket
- 5/8" wrench and socket
- 3/4" Wrench and Socket
- Torque wrench
- 15mm wrench

Included Parts:

- Chassis Mounts (2)
- Polyurethane bushings (4)
- Sleeves (2)
- Adjustable Motor Mounts (2)
- Transmission Crossmember (1)
- Transmission Crossmember Ends (2)
- M10 x 25mm Flanged Bolt (8)
- 7/16" x 4-1/2" Bolt (2)
- 7/16" Lock Nuts (2)
- 7/16" Washers (4)
- 3/8" x 1" Bolt (16)
- 3/8" Lock Nuts (16)
- 3/8" Washers (32)
- 1/2" x 1-1/2" Bolt (8)
- 1/2" Lock nut (8)
- 1/2" Washer (16)

Installation:

1. To remove the original chassis mounts, locate the 8 factory bolts and remove them. Once the factory bolts are removed the chassis mounts can be removed.



Image 1

2. Now that the factory mounts are removed the Tinworks chassis mounts can be loosely installed with the new 3/8" grade 8 hardware (**Image 1 and 2**). **Note: The chassis mounts are stamped D for driver side and P for passenger side.**



Image 2

Note: there is a wide flange frame rail and a narrow flange frame rail. If you are installing the chassis mounts on a wide flange frame rail the top flange will need to be trimmed to fit. The wide flange measures at 2 5/16" (Image 3) and the narrow flange measures at 1 3/4" (Image 4)

Wide Flange



Image 3

Narrow Flange



Image 4

3. Insert the 2 polyurethane bushings into the chassis mount. Followed by the metal sleeve into the bushings.

4. The Tinworks adjustable motor mounts can be loosely bolted to the motor with the new M10 bolts. **Note: The Adjustable motor mounts are stamped D for driver side and P for Passenger side.** Lower the engine into the truck and the 7/16" Bolts can now be used to install the Motor mounts to the chassis mounts (**Image 5**)



Image 5

5. Once the motor is adjusted side to side and front to back the installed hardware can be tightened.

6. To remove the factory transmission crossmember locate and remove the 8 factory bolts. The factory Transmission crossmember can then be removed.

7. Please note that there are multiple holes on the frame, which holes are used will be determined by the motor and transmission setup being used.



Image 6

8. The crossmember ends can be bolted into place, making sure the half circle notch is facing forward, install the 3/8" grade 8 hardware loosely. **(Image 6)**

9. Loosely bolt the crossmember into place with the logo orientated on the passenger side of the frame with the 1/2" grade eight hardware. **(Image 7)**



Image 7



Image 8

10. Install the transmission mount to the crossmember first and then to the transmission. The transmission crossmember and ends can now be tightened. **(Image 8)**

11. Torque the 3/8" Hardware to 33 FT-LBS, the 1/2" hardware to 80 FT-LBS, and the 7/16" hardware to 58 FT-LBS.

12. Pat yourself on the back and grab a drink, you have successfully completed your install!!!