



CUSTOM MOTOR MOUNT INSTALLATION GUIDE

Thank you for the purchase of your new motor mounts. At Tin Man Fabrication we have taken pride in providing a very high quality product that can fit the needs of many applications. A complete list of Tin Man products is available on our website at www.tinmanfabrication.com.

Please read this guide carefully along with Inland Empire's "Power Train Set-Up Guide" (this guide is found in the "How To" Section on our website) to ensure proper engine and driveline set up. This will help insure you can enjoy trouble free performance from your power train.

Several things to do before you start your motor mount installation

- Mount the tires you are going to use or simulate the tire diameter you plan to run (half the diameter from the ground to axle centerline). Make sure you have sufficient tire clearance!
- Get the car set at final ride height. We like to remove the springs and block the car up to the height we want it to sit at. Once the height is determined the car can be raised equally front to back and side to side to allow space for an engine hoist or jack.
- Set the engine and transmission in place. Block it up level side to side and 3 degrees down to the back. Try to measure the angle from a machined block surface like the starter mounting flange. Be sure the engine is not the lowest point on the chassis and not so high that you run into hood or floor clearance problems that cannot be dealt with.
- Try to look for other potential clearance problems around the engine such as the steering shaft, distributor cap, radiator to fan, air cleaner, and exhaust etc. Transmission bolts may need to be removed in the case of trans. failure). These things should be considered prior to finalizing the engine position.



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Engine mounting procedure

1. Bolt the mounts to engine.
2. Determine if the frame rails need to be boxed in the area where the frame mount tabs are to be welded in.
3. Box frame rails if necessary using a minimum of 11 gauge (.120) metal. Unibody cars do not have thick enough frames to weld directly to. If your car is a unibody car you will need to reinforce the area with a minimum of 11 gauge metal where the engine mounting tabs will weld to.
4. Make 4 patterns of the frame mount tabs by tracing a frame tab onto cardboard.
5. Put cardboard patterns onto mount using the included 1/2" bolt. Trim cardboard patterns to fit the frame rails.
6. Mark the locations of each cardboard pattern
7. Remove patterns and transfer to metal frame mount tabs.
8. Cut tabs and test fit on the vehicle. Trim or grind if necessary to final fit.
9. Tack the frame tabs firmly in place.
10. Fit the transmission cross member.
11. Remove the engine and weld the frame mount tabs permanently in place.
12. If the frame mount tabs are longer than 2 1/2" weld in the reinforcement tabs (included) between frame mount tabs to give extra for/aft support.
13. Re-install engine.

**Congratulations! You have completed the installation
of your new Tin Man motor mounts!**