



James Barone Racing Custom Fabrication of Aftermarket Parts and Accessories

JBR Transmission Mount Installation Instructions 2006 - 2007 MAZDASPEED 6

Tools Required:

Jack and Jack Stands (no ramps)

Ratchet Wrench

Torque Wrench

10mm Socket

14mm Socket

17mm Socket

Assorted Extensions

10mm wrench & 14mm wrench. Preferably a 14mm Ratcheting Wrench

Flat Head Screw Driver or Long Drift Punch

Hammer

Begin by parking on a smooth level surface with the emergency brake engaged.

1. Remove the two 10mm bolts securing the battery hold down strap.
2. Remove the negative battery cable first then the positive battery cable.
3. Remove the battery
4. Remove the two 10mm bolts securing the battery tray and remove the tray from the vehicle.
5. Jack up the front of the vehicle and position jack stands underneath both sides so the wheels can hang. The car must be supported on jack stands.



Refer to you vehicles owner's manual for proper jack placement and supporting procedures.

Never get under a vehicle without the proper support in place.

6. Remove the belly pan and place a jack where shown to support the transmission. It is recommended to use the factory jack for this. You may need to place a block of wood beneath the jack to get enough height. **Support the transmission, do not raise it.**



7. Using a 17mm socket remove the main bolt securing the motor mount to the transmission bracket.



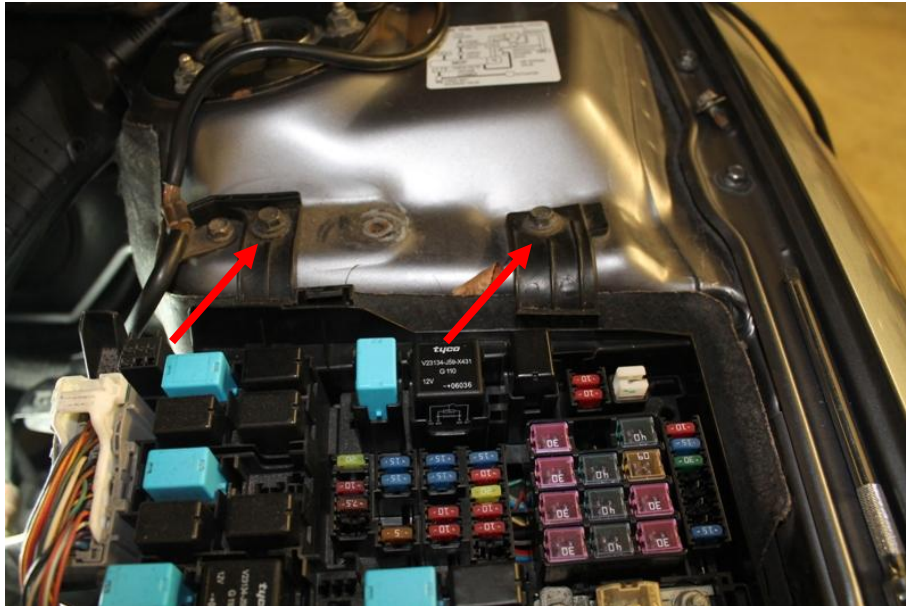
8. Using a 14mm ratchet wrench, remove the lower front bolt securing the mount to the frame.



9. Using a 14mm ratchet wrench, remove the rear lower bolt securing the mount to the frame.



10. Remove the fuse box cover. Then, use a 10mm socket and remove the two, 10mm bolts securing the fuse box to the strut tower.



11. Using a 10mm socket and extension, remove the 10mm nut securing the lower portion of the fuse box to the inner fender.



12. Remove this clip securing the wiring harness that leads to the fuse box. Now lift up on the fuse box so it can be moved around in order to facilitate the next steps.



13. Move the fuse box towards the front passenger side of the vehicle enough to get a long extension with a 14mm socket on the rear upper transmission bolt and remove the bolt.

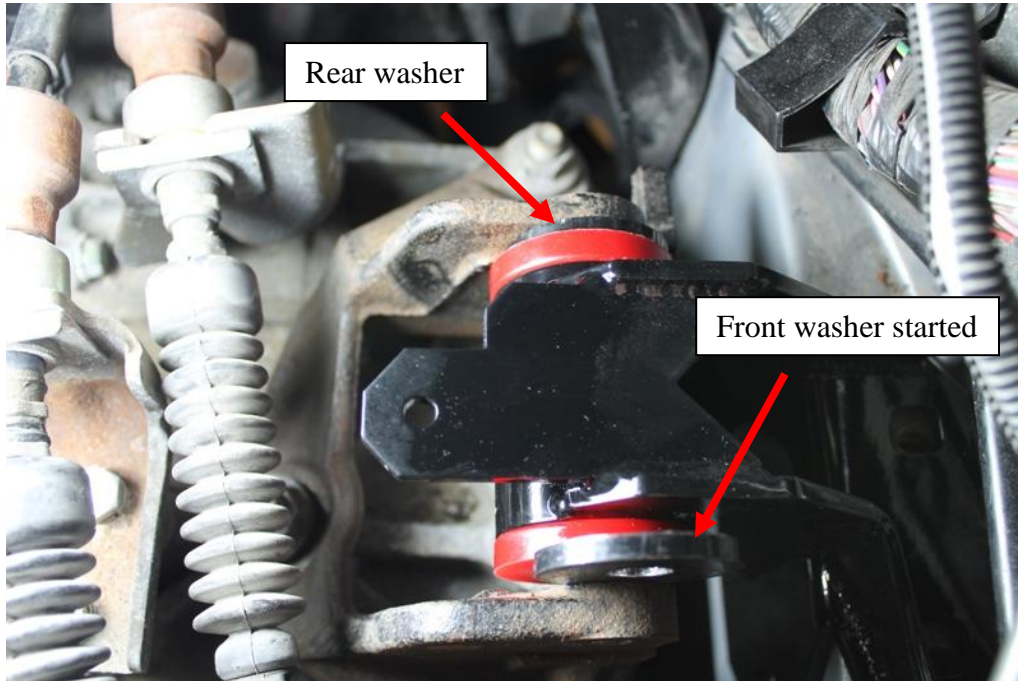


14. Move the fuse box back towards its original location. Using a 14mm socket with no extension, remove the front 14mm bolt securing the mount. Remove the factory mount from the vehicle.

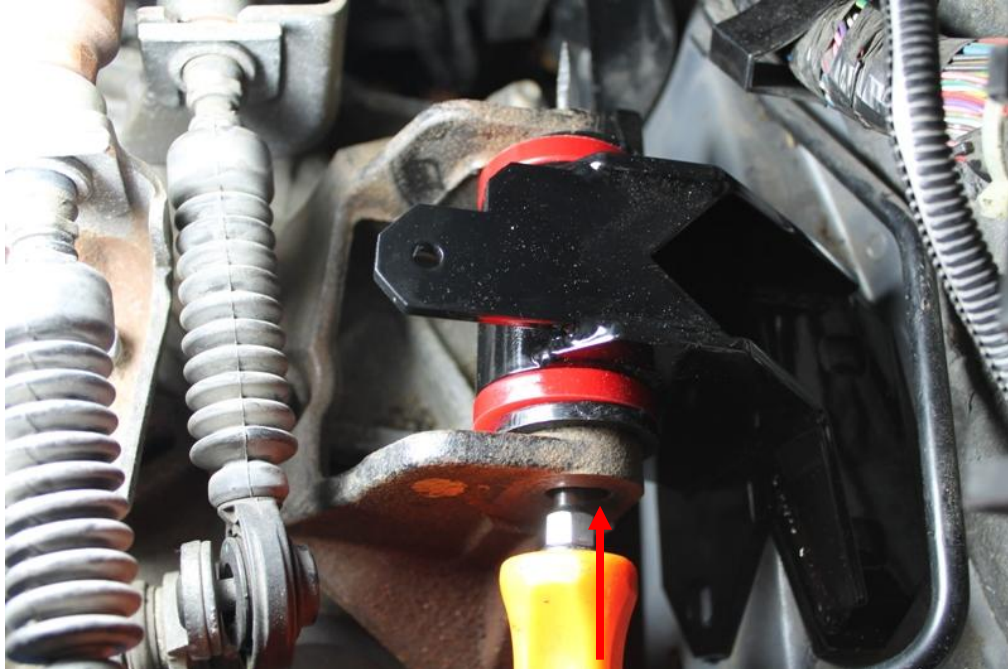


Now is a good time to take a break.

15. Place your new JBR Transmission Mount in the vehicle. Place a thick washer in between the rear portion of the mount and the transmission bracket. Apply pressure to the mount to hold the washer in place. Take the other thick washer and begin to wedge it in between the bushing and the front portion of the transmission bracket. This can be tough to do and may take some time to get it started.



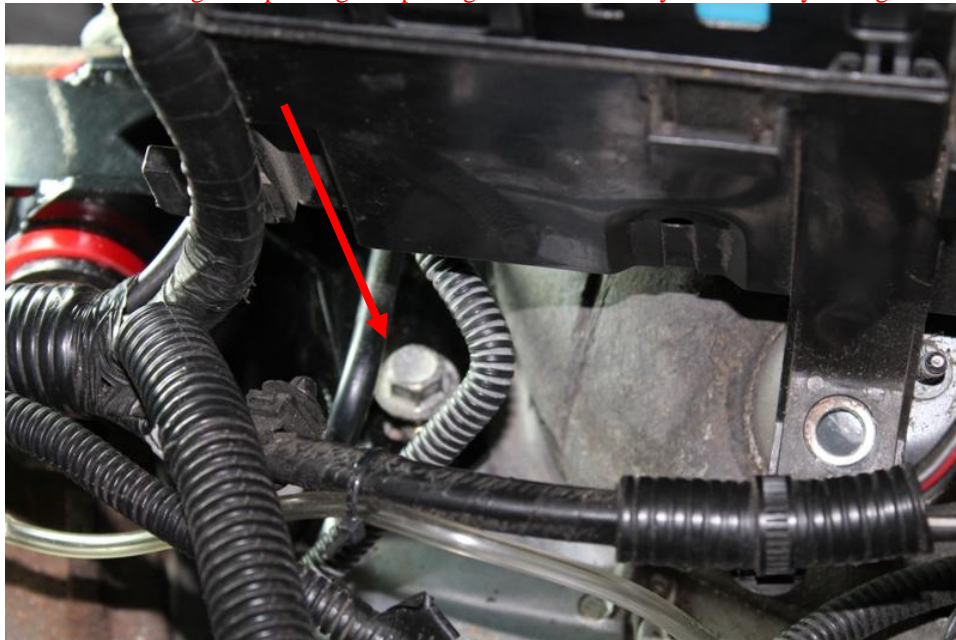
16. Now, using a hammer and a flat head screw driver, tap the front thick wash in to place, attempting to line it up with the bolt hole as best as possible. Now, using a screw driver through the main bolt hole, line up the front and rear thick washers. Install the bolt removed in step 7 and leave it loose.
SEE THE NOTES ON THE NEXT PAGE IF YOU'RE UNABLE TO ALIGN THE WASHERS



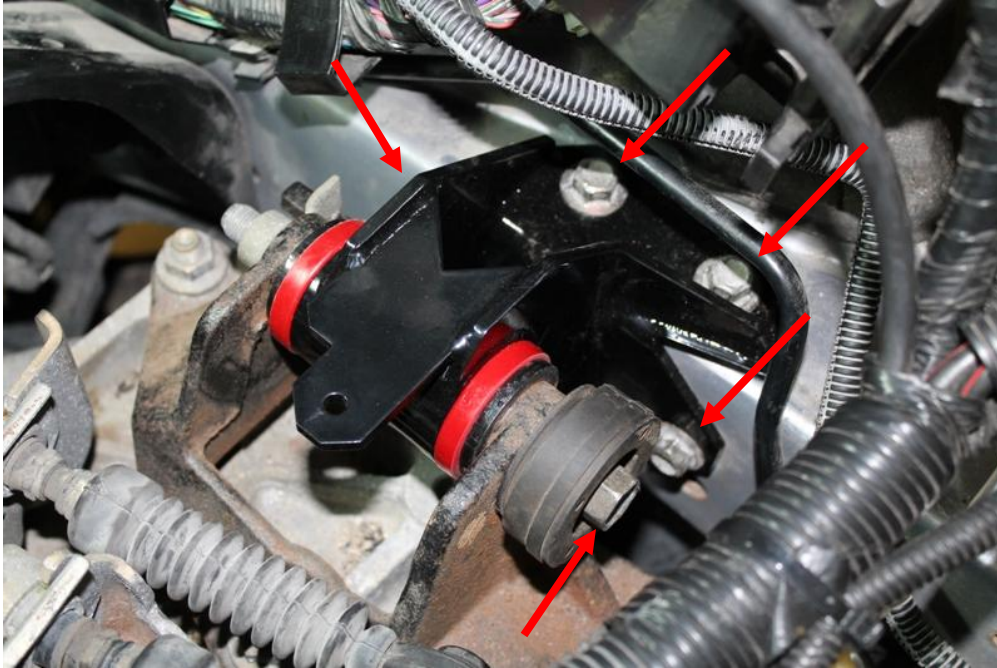
****NOTE**** If you run in to trouble aligning the washers and you can't get the main bolt through, check to make sure there are no casting lines interfering with the thick washers. If they are, remove the mount, file or grind them down a bit and start again from step 15. Below is a shot of what to look for.



17. Being very careful not to cross thread the bolts, begin by reinstalling the front upper bolt securing the mount to the frame of the car and leave it loose. **Raising and lowering the jack supporting the transmission along with pushing and pulling on the motor may be necessary to align the bolts.**



18. Again, being very careful not to cross thread the bolts, install the rear upper bolt, front lower bolt, and the rear lower bolt. Then tighten them all including the main bolt.



19. Reinstall the fuse box and fuse box cover removed in steps 10 and 11.
20. Reinstall the battery tray using the one OEM rear bolt. Use the included nut and bolt to attach the front off the battery tray to the transmission mount. Use a 10mm socket and wrench to tight down the battery tray
21. Reinstall the battery and the battery hold down strap. Reconnect the positive battery cable first, then the negative.

CONGRATULATIONS YOU'RE ALL DONE!!

*****Warning*****

After a few days of driving recheck and if necessary re-torque of all mounting bolts to ensure they have not come loose.

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CONTACT:

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