



James Barone Racing
Custom Fabrication of Aftermarket Parts and Accessories

JBR Transmission Mount Installation Instructions
07'-2013 MAZDASPEED 3

Tools Required:

Jack, Jack Stands
Ratchet Wrench
Torque Wrench
17mm Socket
19mm Socket
10mm Socket
Assorted Extensions
Needle Nose Pliers
Flat Head Screw Driver

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

1. Remove the ECU cover and battery box cover.



2. Remove the 2 x 10mm nuts from the battery hold down bracket, remove the negative battery cable and then the positive battery cable. **Always remove the negative battery cable first and replace it last.**



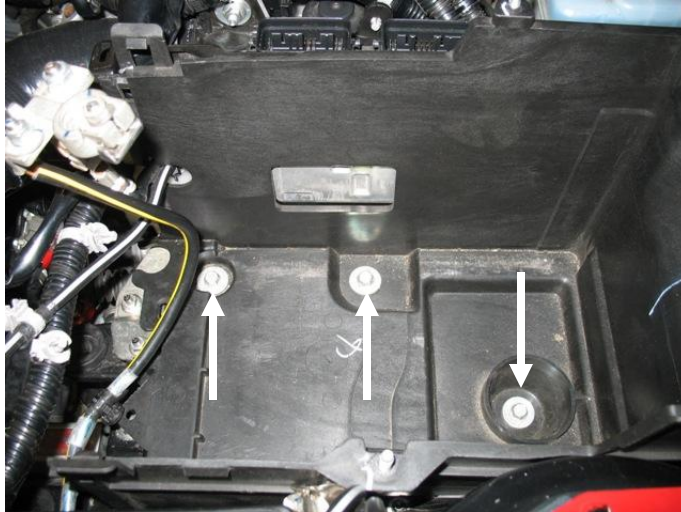
3. Using needle nose pliers, remove the 3 cable connectors from the front panel of the battery box. Remove the front panel of the battery box by sliding it up, then remove the battery.



4. Remove the ECU wiring harness using a flat head screw driver to pry out the arm of the connector then lift the connector up or push the tab to release the arm.



5. Remove the 3 x 10mm bolts in the bottom of the battery box and remove the battery box.



6. 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.

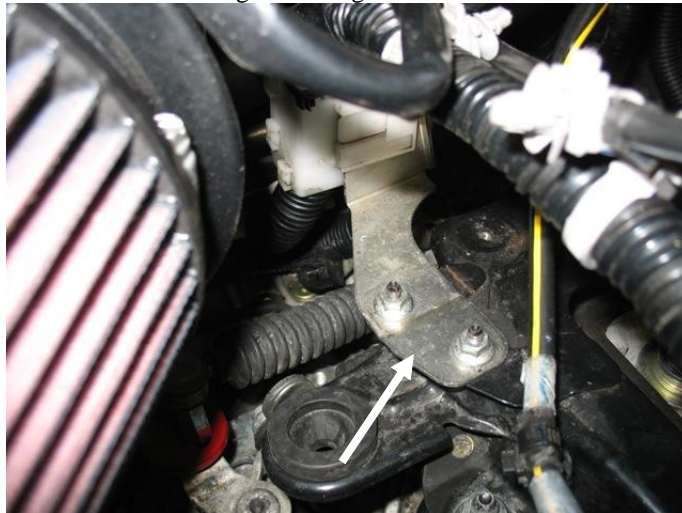


Refer to you vehicles owner's manual for proper jack placement and supporting procedures.
Never get under a vehicle without the proper support in place.

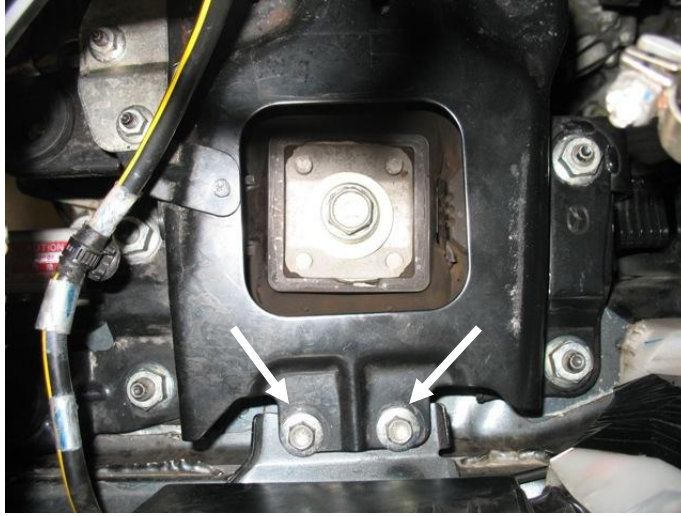
7. Remove the belly pan and place a jack where shown to support the transmission. It is recommended to use the factory jack for this. You may need to place a block of wood beneath the jack to get enough height. **Support the transmission do not raise it more than a 1/2".**



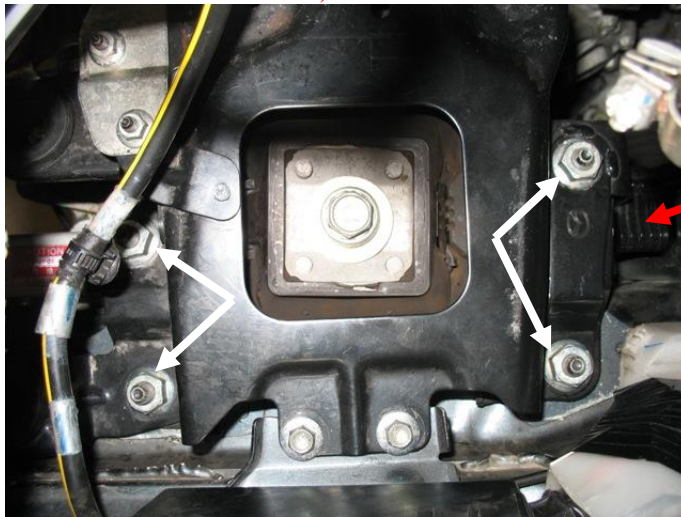
8. Remove the 2 x 10mm nuts holding the wiring harness bracket.



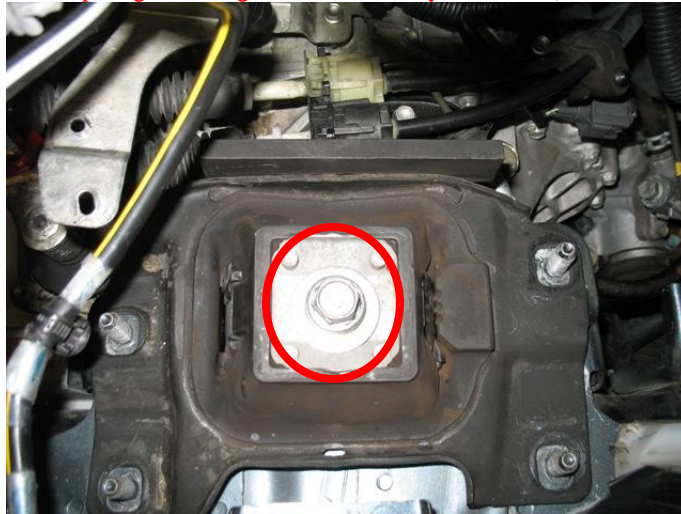
9. Remove 2 x 10mm bolts. (2007 – 2009 only)



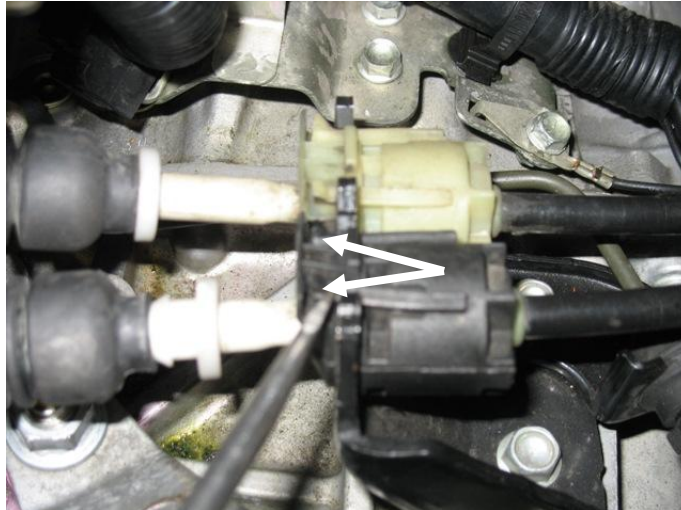
10. Remove the 4 x 17mm nuts and the battery box support bracket that covers the factory transmission mount. (The 2007 – 2009 models have anti vibration weight located towards the rear of the vehicle that will be removed as well)



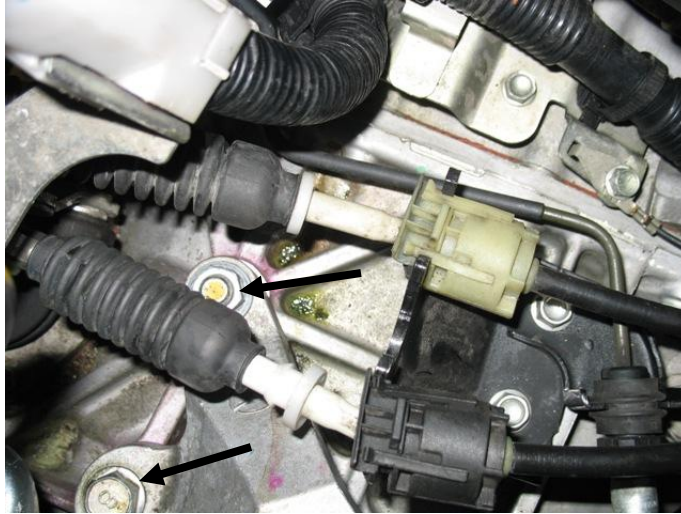
11. Remove the 1 x 17mm bolt that holds the factory mount to the transmission perch. (This bolt is very tight and an impact gun or large breaker bar may be needed)



12. Very carefully remove the shifter cable from the mounting bracket using a flat head screw driver to push in the tabs on each side as shown. Carefully lift the cable out of the bracket and towards the driver's side of the vehicle.



13. Remove the 2 x 17mm nuts and 1 x 17mm bolt from the transmission perch and remove the perch from the vehicle. **Be careful not to damage the shifter cable when removing the forward most nut.**



14. Install the new JBR transmission perch in the vehicle. Using 3 of the supplied lock washers and the short bolt also supplied, torque to 60 foot pounds. Then put the shifter cable back in to the mounting bracket and push down until it snaps in to place.



**Steps 15 and 16 are for kits supplied with Bolts
(Phased out after 3/11/13)**

**Steps 17 and 18 are for kits supplied with Studs.
(Phased in 3/12/13)**

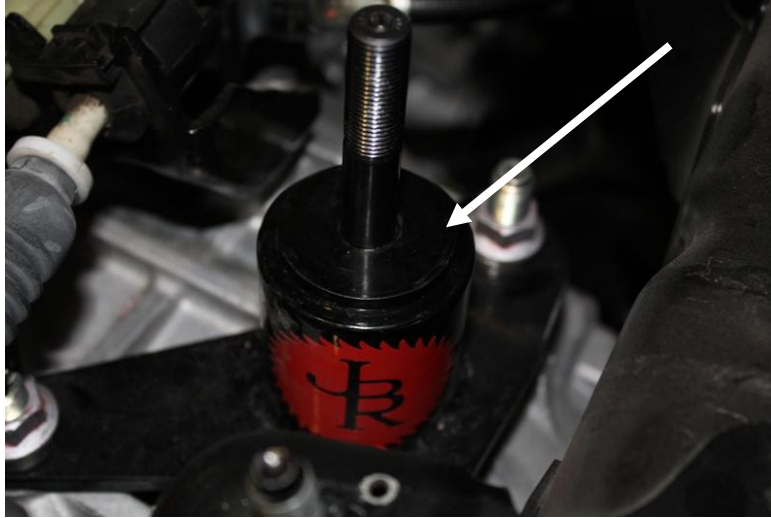
15. Now prepare the mount for installation by putting 1 supplied lock washer on the large bolt also supplied, then a small flat washer, then a large black washer. Slip that portion of the hardware assembly through the bushing then put the last large black washer on as shown below.



16. Put several drops of Loctite on the threads of the mounting bolt and install the mount in to the vehicle. **You will need to hold the hardware assembly together with one hand so the large black washer on the bottom does not fall off during installation. Careful when starting to thread the bolt in to the perch to avoid cross threading.** The mount will only fit in one way so if needed, remove the hardware assembly, flip the mount over and replace the hardware as described in step 15. Using a 19mm socket torque to 65 foot pounds.



17. With the perch installed place the thick washer over the stud and on to the perch.

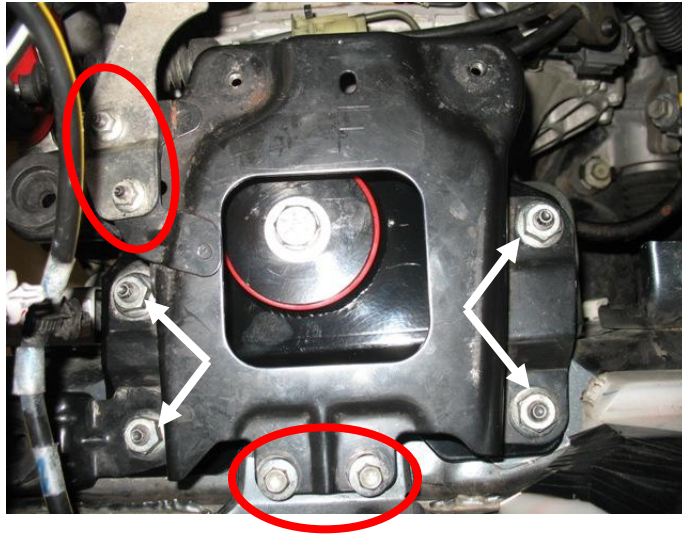


18. Install the transmission mount over the stud on to the perch. Make sure the mount is sitting flush on the perch. Place the other thick washer over the stud first, then the flat washer, then the lock washer. Thread on the nut and torque to 65ft/lbs.



19. Remove the jack supporting the transmission to allow the transmission mount to settle in to place.

20. Reinstall the battery box support bracket removed in step 10. Install and torque the 4 x 17mm bolts removed in step 10 to 60 foot pounds. Install the 2 x 10mm nuts removed in step 8 and tighten. Install the 2 x 10mm bolts if removed in step 9 and tighten.



21. Reinstall the battery box, front panel of the battery box, ECU connections, ECU cover, battery box cover and remove the jack stands.

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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All sales are final. JAMES BARONE RACING will only except returns in the event of a manufacturer's defect. Defective items will be exchanged for the identical item or repaired at our discretion. Return shipping costs are the responsibility of the purchaser. An RMA # (Return to Manufacturer Authorization Number) Must accompany all returns. In rare cases where a return is accepted a 15% restocking fee will be deducted from the refund or credit. Shipping charges are non- refundable. No returns or exchanges will be accepted after 30 days.

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CONTACT:

If you have questions or problems, e-mail us at jamesbaroneracing@gmail.com. Posting questions or problems in the forums or other social media outlets will only delay you from getting the correct answer or personalized attention from us.