



2004 and up Mazda 3 Short Throw Shifter Installation Manual

Estimated Installation Time: 30-40 Minutes

Tools Required:

- Philips head screw Driver
- 3 small flat head screw drivers
- 10mm Socket and ratchet
- Needle nose pliers



1. Unscrew the stock shift knob by rotating it counter clockwise.



2. Open the Storage compartment in the center console and remove the foam rubber mat in the bottom. Use a Phillips head screwdriver to remove the 2 screws.



3. Lift up on the rear of the console to begin removal.



4. Continue console removal by lifting the front of the console. The entire console can now be removed in one piece. Place the console in a safe place.



5. Unscrew the 2 screws at the front of the console.



6. Remove the ashtray by pulling up and out.



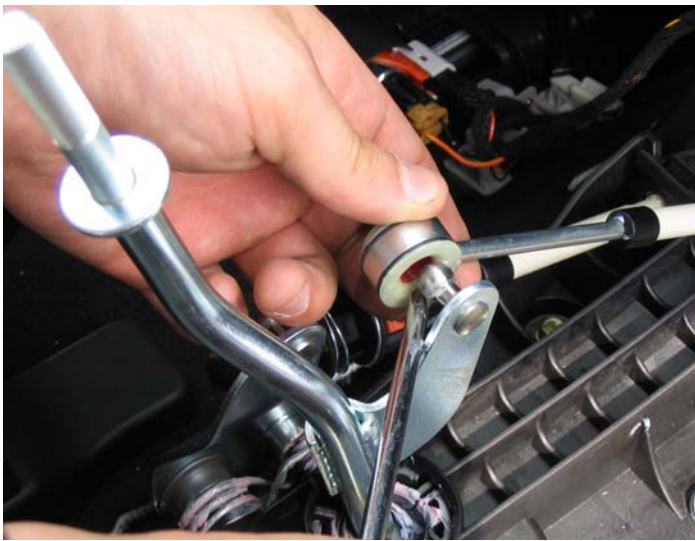
7. Remove the lighter face plate by pulling up and out.



8. Use a Philips head screwdriver to remove the 2 screws exposed by removing the lighter face plate.



9. Remove the entire console from the car by lifting up and back.



10. Use a flat head screwdriver to pry the cable from the stock shifter using the metal tab on the shifter as an anchor point for the screwdriver. Repeat for both cables that are attached to the stock shifter.



11. Disconnect The shift cables from the shift assembly by lifting straight up.



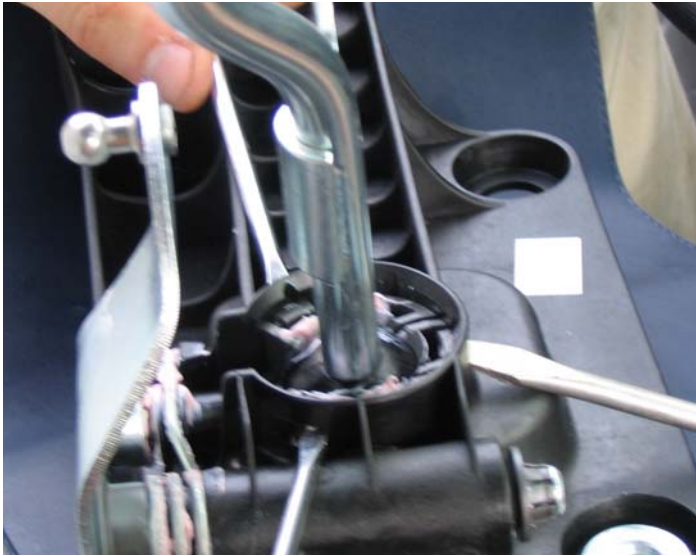
12. Use a 10mm socket and ratchet to remove the 4 bolts holding



13. Remove the assembly from the car.



14. Remove the 4 rubber bushings from the base of the shift assembly. Begin by pushing the steel inserts through the top of the rubber bushings, then push the rubber bushing through the bottom of the shift assembly.



15. Place the shift assembly on a firm surface or workbench. Insert 3 flat head screw drivers into the slots in the shift assembly surrounding the shift rod with the help of a friend. Note the position and orientation of the spring which applies tension to the short side arm for re-installation. Push with all 3 screwdrivers to press the tabs on the plastic cup surrounding the pivot ball and lift to release the shift rod from the assembly.



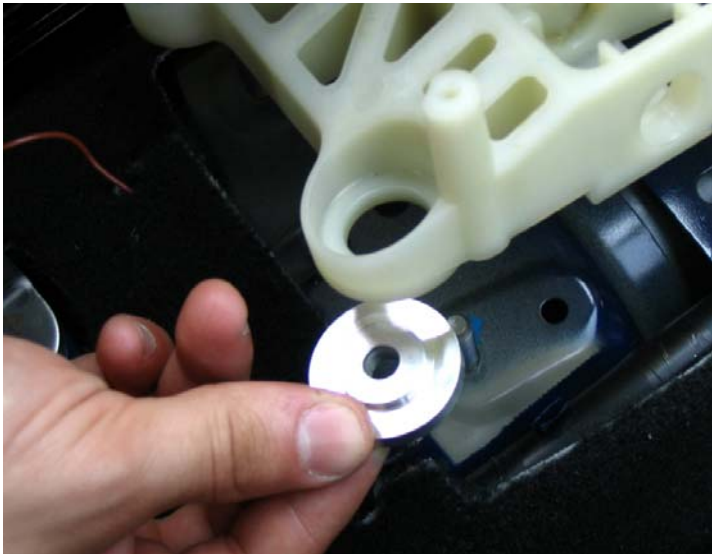
16. Remove the small white plastic cup on the side arm of the stock shifter and set aside for re-use. Also remove the plastic cup surrounding the large pivot ball and set aside for re-use.



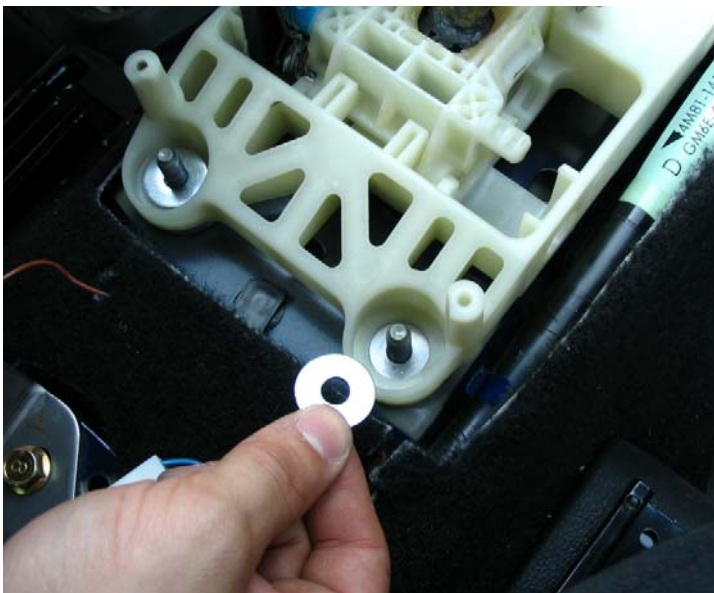
17. Lightly grease the small pivot balls and the large pivot ball on the TWM Performance shifter. Install the small white plastic cup and the larger plastic cup on the pivot balls on the TWM Performance shifter.



18. Install the TWM Performance shifter into the shift assembly. You may need to use needle nose pliers and a flat head screw driver in order to restore the spring to the position you noted during disassembly. Ensure that the 3 tabs on the plastic unit surrounding the large pivot ball are correctly clipped back in to their respective slots in the assembly.



19. Re-install the shift assembly into the car with the supplied TWM Performance aluminum bushings in place of the old rubber bushings. Be sure the stepped side of the bushing is facing up and place the assembly on to them.



20. Secure the shift assembly in place using the 4 washers provided in the kit on top of the assembly and use the original bolts.

21. On the upper portion of the shifter there are two grooves, using pliers place the E-Clip at the desired height to retain the shift boot.



22. Replace all shift cables and screws to their original locations. Replace the console in the reverse order of removal and you're ready to drive.

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Warranty does not cover the following:

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- Regular day to day wear on vehicle
- Shipping costs for replacements
- Installation costs and vehicle down time
- Products that have been modified, incorrectly installed or misused.
- Mounting hardware and bearings