



2002-2003 Short Shifter w/ Knob

052307

Thank you for purchasing the ALTA Performance short shifter. Installation of this short shifter should only be performed by persons experienced in the installation and proper operation of Mini transmissions and engines. Please read through all the instructions before performing the installation.

SPECAIL NOTES:

- Use of the factory service manual, can be very helpful during the installation. These can be purchased as the dealership, or online. <http://www.realoem.com> has diagrams for the entire car, which can also be helpful.
- Your new shifter is ADJUSTABLE! Please note that installation steps vary by how short you want the throw to be. There are three grooves on the shift rod. Starting from the top (closest to threads) is the shortest position (position #3). The center groove is position #2 and the bottom is #1. Position #2 provides the shortest throw without additional steps and it is recommended starting position. Align the top of the pivot ball assembly with your chosen alignment mark.
- For installing in Position #1 follow steps 1-20
- For installing in Position #1 follow steps 1-20 and Sub-step A
- For installing in Position #1 follow steps 1-20 and Sub-steps A and B

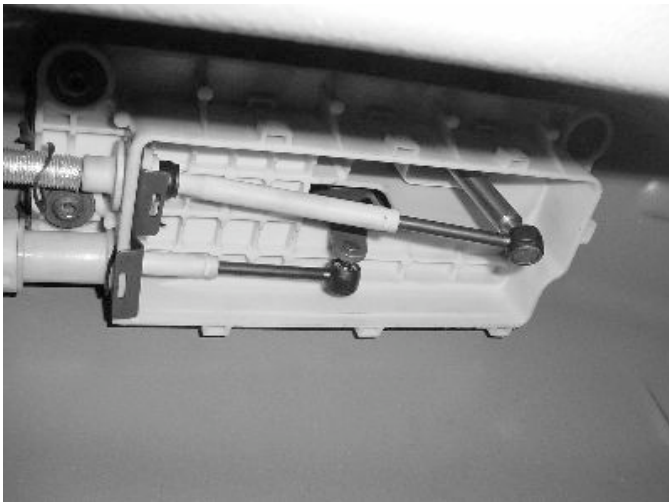
Parts Included with the ALTA Short Shifter:

- (1) ALTA 2002-2003 short shifter rod assembly
- (1) 3/32" Allen wrench
- (1) Shift knob w/12x1.25 thread pitch
- (1) 3 color ALTA knob stickers

Checked By _____

Steps #1-4 performed under vehicle supported on jack stands. DO NOT RAISE VEHICLE ON JACK ONLY! DEATH OR INJURY CAN RESULT!

1. Remove exhaust system from vehicle. (Do not remove exhaust manifold!)
2. Remove aluminum heat shield from bottom of the car, directly below shifter assembly. Rear shields do not need to be removed.
3. Remove plastic shield covering factory shift box.
4. Disconnect (2) shifter cables from factory shift box (2 ball & socket connectors can be Popped off by twisting)



Shift cables shown underneath car.



2002-2003 shown, 2004+ has black plastic body, and pivot arm.

Inside vehicle:

5. Remove shift knob by pulling straight up. Requires excessive force!
6. Remove shift boot and plastic retaining ring from the console. (Pull up!)
7. Remove shift rod bushing by pulling up on rod while pressing the 3 retaining clips on the bushing. This will release bushing and shift rod mounted in the shift box.

8. Carefully remove shift rod bushing off factory shift rod. (This will be reused later!)
9. Remove shift rod from shift box. On 02' – 03' cars, clearance is limited between plastic housing and linkage, but can be removed.
10. Carefully remove white plastic bushing from factory shift rod. These are FRAGILE take care not to break. (This will be reused later!)
11. Re-install the white bushing; gray bushing and rubber O ring onto new pivot ball assembly. Make sure to re-grease bushings prior to final assembly!



12. Install pivot ball and shift assembly into shift box and set to desired position. Tighten setscrews using supplied wrench.
13. Re-install factory shift boot as shown. Use a zip tie to hold boot in new location on shift rod.
14. Install shift knob on shift rod. Do not snap plastic trim ring on to console!

Underneath vehicle:

15. Reconnect (2) cables removed prior on to new ball ends of shifter.
16. Re-install plastic cover on to shifter box. Depending on what position the rod was left in, you will either install or not install the shift box cover.
See sub steps below.
 - A. *Position 2: Trim ribs off plastic shift box cover. Re-install and continue onto step 18.*
 - B. *Position 3: Leave plastic cover off completely. You will need to periodically clean and regrease ball joints if cover is left off.*
17. Re-install aluminum exhaust heat shield.
18. Re-install exhaust system.

Inside vehicle:

19. Check shifter throw. Assuming, the throw is smooth and in the correct position for your tastes, retighten pivot ball to shift rod screws and re-install shift boot trim ring.

For questions & comments please contact
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