



Trunk Lift Kit

Installation Instructions

1990-05 Miata

PART # 900-230 and 900-233

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Contents of Kit:

- A) Gas Strut
- B) Bracket
- C) Rectangular Spacer
- D) 2x Nuts
- E) 2x Bolts
- F) 2x Lock Washers
- G) 2x Star Washers
- H) Short Ball Stud
- I) Long Ball Stud
- J) Ball Stud Spacer

Tools Required:

- Combination wrenches: 12mm, 14mm
- Ratchet
- 10mm socket
- Small flat nose screw driver
- Large flat nose screw driver
- Pliers
- Hammer
- Center punch
- Drill
- Drill bits: 1/8", 5/16"
- Thin felt tipped marker
- A helper or broom handle to prop up the trunk

- 1) Open the trunk. Remove the spare tire, jack handle, and all carpet that may obstruct access to the front left area of the trunk. Some carpeting will be attached to the vehicle by small plastic clips. These clips can be removed by prying the middle section up with a small flat nose screw driver.
- 2) In the front left of the trunk, locate the metal panel covering the fuel filler neck. Remove the four bolts securing the panel with a 10mm socket and ratchet, and set the panel aside.



Illustration 2

- 3) Remove the two bolts found directly behind the left trunk hinge. These bolts will not be used in the installation of the trunk lift.



Illustration 3

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- 4) Begin assembly of the trunk lift bracket. Collect the longer ball stud, plastic spacer, lock washer, and nut. Put the plastic spacer on the ball stud and slide it through the single opening at the narrow end of the bracket. Confirm that the ball stud is centered in the bracket. Tighten the ball stud and nut using 12mm and 14mm wrenches.



Illustration 4

bracket is pointed towards the front of the vehicle, and the ball stud is facing towards the left. Tighten the two bolts with a 10mm socket and ratchet, and verify the bolts are centered in the bracket.



Illustration 8

- 5) Secure the steel rod end of the provided gas strut to the ball stud attached to the bracket.
- 6) Use a helper, or a broom handle to prop up the trunk. The next step will prevent the trunk from supporting itself.
- 7) Two torsion springs are attached to the trunk hinges. Remove the spring connected to the left trunk hinge by removing it from its base on the right of the trunk. Use a large flat nose screwdriver to remove the spring by prying on the spring before and after the mount. The spring is under a lot of tension, and can be dangerous. Spring removal is demonstrated below.



Illustration 7

- 9) When the torsion spring was removed from the vehicle, it left a hook riveted to the left trunk hinge. This hook can be used to find the best place to drill into the trunk hinge.
- 10) Center the opening made by the hook with the exact center of the hinge. Put a thin felt tipped marker into the hook and mark the location on the hinge.



Illustration 10

- 8) Using the two supplied bolts and star washers, attach the trunk lift bracket and spacer in place of bolts removed in step 3. Ensure the narrow section of the

- 11) Confirm that the mark is in the middle of the hinge and use a center punch and a hammer to punch the mark.
- 12) Drill a pilot hole using the 1/8" drill bit.
- 13) Enlarge the pilot hole with the 5/16" drill bit.

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Illustration 13



- 14) Take the shorter ball stud and install it in the trunk hinge with a lock washer and nut. Confirm that the ball stud is pointed toward the right of the vehicle. Tighten with both 12mm and 14mm combination wrenches. If the 14mm nut cannot be accessed with a wrench use a set of pliers to hold it.



Illustration 14

- 15) Move the hook up and out of the way and attach the free end of the strut to the ball stud.



Illustration 15

- 16) Open and close the trunk, verify that everything is functioning correctly. Small adjustments can be made by moving the bolts in their holes. The height of the trunk can be slightly increased by moving the longer ball stud towards the rear of the vehicle.
- 17) Reinstall the metal panel, carpet, jack handle, and spare tire.

Although every effort has been made to ensure the accuracy and clarity of this information, any suggestions that you may have that will improve the information (especially detailed installation notes and photos) are welcome. These instructions were developed and written by Moss Technical Support. If you have any questions or difficulties with your installation of this product, telephone 800-667-7872 between 7:00 a.m. and 4:00 p.m., Pacific Time for assistance.

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