



Adjustable Headlight Link Installation Instructions

For: 2016+ Miata
PART # 910-265

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Tools required:

- 10mm Wrench
- 11mm Wrench
- 10mm Socket with ¼ Drive Ratchet
- Floor jack
- Jack stands
- Wheel chocks
- Painters tape and a marker or chalk

Notes:

This product is intended to correct the automatic headlight aiming with a lowered ND Miata.

When a heavy load is placed in the trunk of the car, the rear of the car sags. Naturally this would cause the headlights to aim up slightly. To correct for this, there is a load sensor attached to the left, rear, lower suspension arm. The load sensor's job is to sense rear end sag and point the head lights down a bit to keep them out of the eyes of oncoming traffic. When you lower the car, the load sensor interprets this as a heavy load in the trunk and aims the headlights down. The lower you go the more the headlights point at the ground. The factory link between the suspension arm and the load sensor is not adjustable. This link will allow you to get your headlights pointed straight out instead of down.

Actual parts may vary from figures.

Completely read and understand these instructions before beginning the installation.

You will need a wall and at least 35 feet of flat ground in front of it to aim your headlights.

- 1) On level ground, chock the front wheels so the vehicle cannot roll. You will be lifting the rear of the vehicle so the transmission in gear or parking brake will not hold the car from rolling. Jack the rear of the vehicle up and safely support on jack stands. Locate the factory headlight adjuster link attached to the left, rear, lower suspension arm. Figure 1.



Figure 1

- 2) Using a 10mm socket and wrench, remove the two 10mm nuts holding the factory adjuster link to the control arm and sensor arm. Do not remove the black horizontal lever that actuates the sensor. Set the nuts aside to use later in the installation of the adjustable headlight rod. Figure 2.



Figure 2

Installation Instructions

- 3) Assemble the adjustable headlight link by first threading the jam nuts to the center of the stud and then threading the rod ends on. Ensure that the rod ends thread onto the rod equally.
- 4) Using the factory headlight adjuster link as a guide, set the adjustable headlight link to the same length. Figure 4.



Figure 4

- 5) Install the adjustable headlight link onto the vehicle and snug the nuts down. Do not fully tighten as you will need to remove at least one side to make adjustments later.
- 6) Set the vehicle back onto the ground and park a few feet in front of a wall or garage door. Ensure that your tire pressure is adjusted to specs the car is on level ground. Measure the distance from the ground to the center of the headlight. Place an easily visible piece of painters tape, chalk or similar marker on the wall at the same height in front of each headlamp. You can also hold a long, level straightedge from the wall to the center of the headlight as shown. Figure 6.
- 7) Move the car straight back until the headlights are 25 feet from the wall and turn the low beams on. The top of the beam should be at the mark you made on the wall. To aim the headlights down, make the adjustable headlight link longer. To aim the headlights up, make the adjustable headlight link shorter. Recheck the light pattern. Adjust until desired level is reached. If necessary, you can remove one of the locknuts and apply thread locker in its place to make the link even shorter.
- 8) Tighten the factory nuts and jam nuts to about 7 ft. lbs.
- 9) Test drive the vehicle in a safe area at night and re-adjust if necessary.



Figure 6

Installation Instructions



910-265 Bill of Materials

Figure #	Part #	Description	Quantity
A	772-954	BALL JOINT, M6, 90 DEGREE	2
B	051-359	STUD, M6 X25MM, FULL THREAD	1
C	772-955	NUT, STANDARD HEX, M6 X 1.0	2
D	771-335	LOCTITE, BLUE, INDIVIDUAL USE	1

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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