



# Inflatable Lumbar Support Installation Instructions For 2016+ Miata

PART # 650-105

**WARNING!** The following instructions are intended for professional automotive technicians with access to proper airbag disarming and handling procedures. Incorrect handling of airbag assembly can result in serious injury or death!

## Tools required:

- 10mm Wrench
- 3/8" Ratchet
- 6" Extension for 3/8" Ratchet
- E12 Recessed Torx socket
- Small flat head screwdriver
- Masking tape

- 1) Determine the most effective placement of the lumbar support by sitting in the vehicle and placing it behind your back. Install the pump on the end of the hose, and inflate the lumbar support. Find the most comfortable position of the lumbar support against the seat, and mark the general location with a piece of masking tape.
- 2) Fully deflate the lumbar support and remove the pump to ease installation.
- 3) Find a suitable work area to place the seat when it is out of the car. Ensure that the work area is free of any dirt or oil that could damage the seat.
- 4) Disconnect the negative terminal on the battery using a 10mm wrench. An airbag is located in the seat, and should not be disconnected while powered.
- 5) Make sure the door is fully open, and put the convertible top down to allow full access for seat removal.
- 6) Slide the seat into its most forward position.

- 7) Using the ratchet, extension, and E12 recessed Torx socket remove the two rear bolts securing the seat to the car. The bolts are located at the rear of the seat sliders.

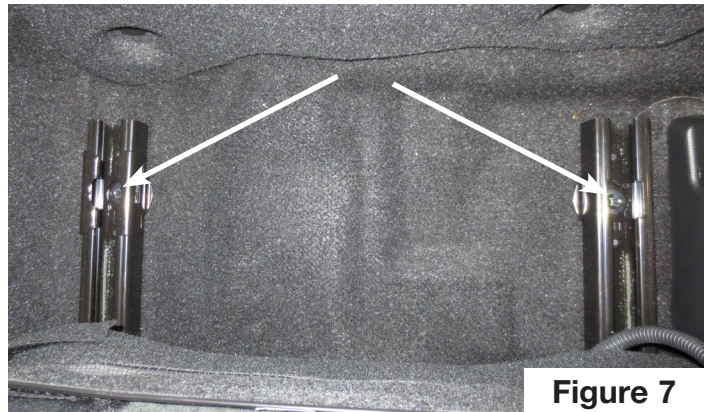


Figure 7

- 8) Slide the seat into its rearmost position and remove the two front bolts.

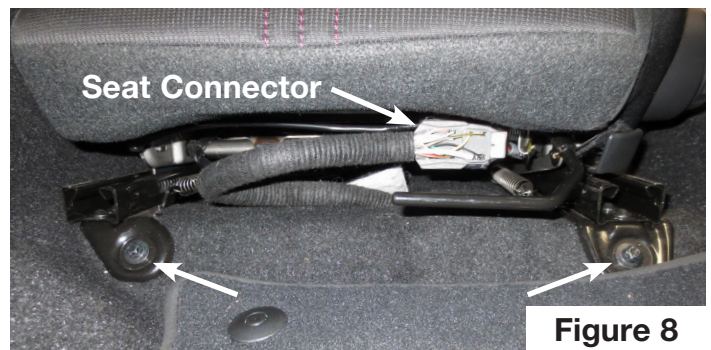
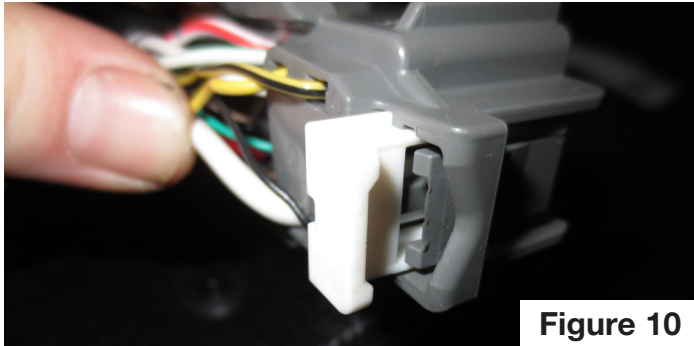


Figure 8

## Installation Instructions

- 9) Refer to the factory manual for recommended airbag disarming procedure. Once the airbag has been disarmed move on to next step.
- 10) Tilt the front of the seat up and locate the seat connector. Using a small flat nosed screwdriver, gently pry up the white lock on the end of the connector. With the white lock lifted out the way, the clip for the connector can be accessed using the same small screwdriver. Lightly pry up on the tab while gradually pulling the connector apart.



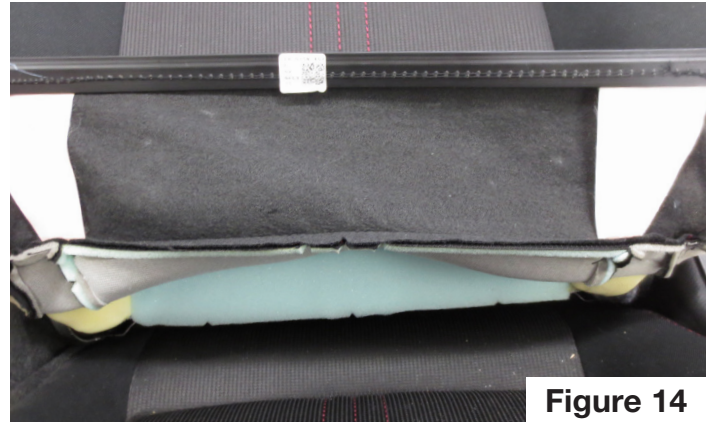
- 11) Once the connectors are separated, the seat can be lifted out of the vehicle. Lift the seat straight up ensuring that the sliders do not make contact with any part of the vehicle.

**Caution:** When carrying a live airbag module, hold it so the outer cover is pointed away from your body at all times to prevent injury in the event of an accidental deployment. When setting a live airbag module down on any surface, always position it pointing away from the surface. If the airbag deploys when it is up against a surface, it will launch the assembly with considerable force. Do not tamper with the airbag assembly in any way.

- 12) Place the seat onto the work area with the rear of the seat facing up.
- 13) Find where the two ends of the seat cover join at the bottom rear of the backrest. Separate the two ends by lifting up and out on the long plastic section attached to the bottom portion of the cover.



- 14) Turn the seat over so that the rear of the seat is facing down. Reach through the separation between the base of the seat and the backrest and gently pull out the lower section of seat cover that was just separated.



- 15) With the seat cover pulled up, the seat foam and the inside of the seat cover should now be visible. The inflatable lumbar support will be placed here between the foam and cover.
- 16) Determine the correct orientation of the lumbar support. When installed, the hose for the pump should be on the inside of the seat near the seat belt receiver.



- 17) Gently slide the inflatable lumbar support between the foam and seat cover to the correct position found in step 1. If the support gets stuck or there is too much resistance to gently slide it into place, remove the support and try again. The seat foam may tear if too much force is applied.
- 18) Pull the bottom of the seat cover and the lumbar support hose back through the separation between the seat base and back rest.

- 19) Route the lumbar support hose out of the seat cover on the inside edge of the seat, and clip the rear sections of the seat cover back together. Pull the lumbar support hose through the outside of the seat cover and tuck in the zippers.



**Figure 19**

- 20) Fasten the seat connector, bolt the seat back into the vehicle, and reconnect the battery.
- 21) Attach the pump to the end of the hose, and inflate the lumbar support.

### What's included:

