

Thank you for purchasing the Track Dog Racing Miata Radiator Shield. The TDR Shield was designed to increase efficiency of your airflow to the radiator and improve appearance in the engine bay. The TDR Shield will install on all 1990 to 1997 model years of the NA Series Mazda Miata. The lightweight aluminum material is finished with a powder coated textured surface that is durable and easy to keep clean.



Before 1995, Mazda traced their airbag wiring harness across the radiator that requires relocation. If your car is so equipped, start with Step 1 of the installation instructions. If your car is not equipped with a front impact air bag sensor, you may proceed to Step 12; however you might want to read through the complete installation instructions.

### Tools Required and Included hardware:

The following tools will be required in your installation.

Tools Required	Hardware Provided
<ul style="list-style-type: none"><li>• 10 mm wrench or sockets</li></ul>	<ul style="list-style-type: none"><li>• (2) M6x25mm Black Nylon Bolts</li></ul>
<ul style="list-style-type: none"><li>• Phillips screwdriver</li></ul>	<ul style="list-style-type: none"><li>• (2) ½" Black Nylon Spacers</li></ul>
<ul style="list-style-type: none"><li>• Needle nose pliers</li></ul>	<ul style="list-style-type: none"><li>• (2) M6 Black Nylon Washers</li></ul>
<ul style="list-style-type: none"><li>• Tie-Wraps</li></ul>	<ul style="list-style-type: none"><li>• (1) 21" Foam Tape</li></ul>

**CAUTION:** Disconnect one terminal of your battery before proceeding with disconnecting of your air bag connector.

The car pictured in this installation is a US specified 1994 Miata. The TDR Shield will be resting on the support frame where the airbag wiring harness lies. In these steps we will relocate the airbag harness under the support frame.

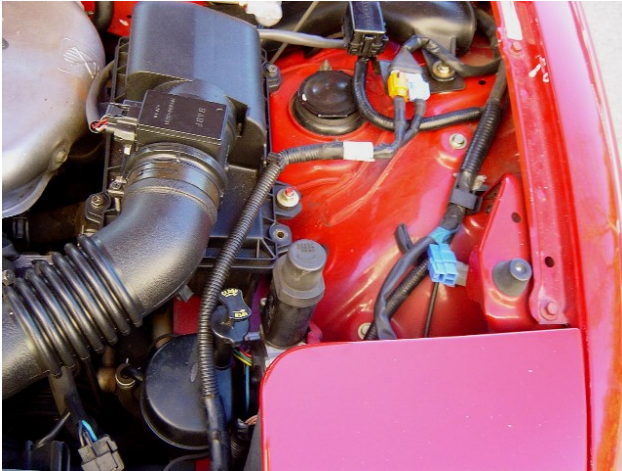


Photo 1-A: Airbag harness that requires relocation



Photo 1-B: Airbag connector on drivers side fender

1. Locate the airbag harness connection on the driver's side fender well area as shown in Photo 1-B.
2. This clip is delicate so do not force the removal of the connection. The orange connector must be removed first as it locks the blue connector in. The orange connector has a squeeze release. Apply pressure and remove the connector as shown in Photo 1-C.

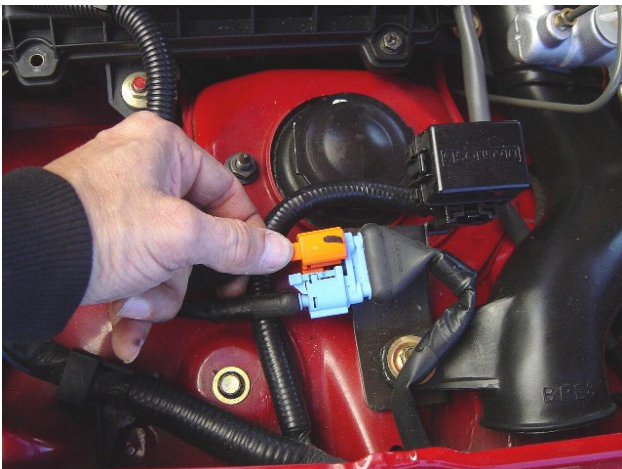


Photo 1-C: Disconnect the orange clip first

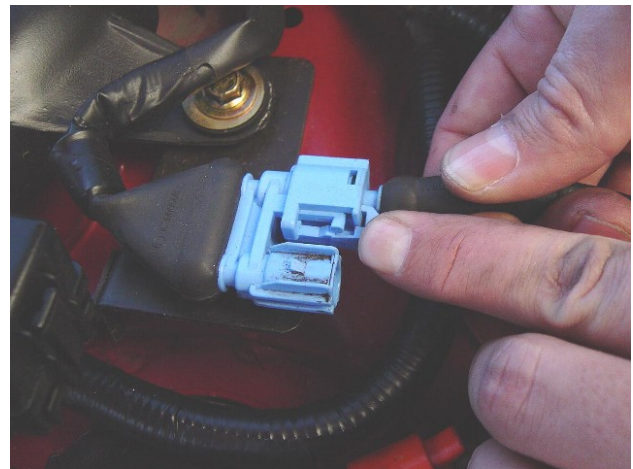


Photo 1-D: Disconnect the blue clip

3. The blue connector release is on the side as show in Photo 1-D. Press and remove the connector.
4. Remove all connections such as tie-wraps that hold the airbag harness secure.

5. Remove the plastic panel, if your car is equipped and the plastic cover over the airbag sensor as shown in Photo 1-E. You can reinstall the plastic panel prior to installing the TDR Shield by modifying the ends where the bolts will go through.
6. To help aid the relocation of the airbag wiring harness, remove the 10 mm bolts holding the airbag sensor as shown in Photo 1-E.

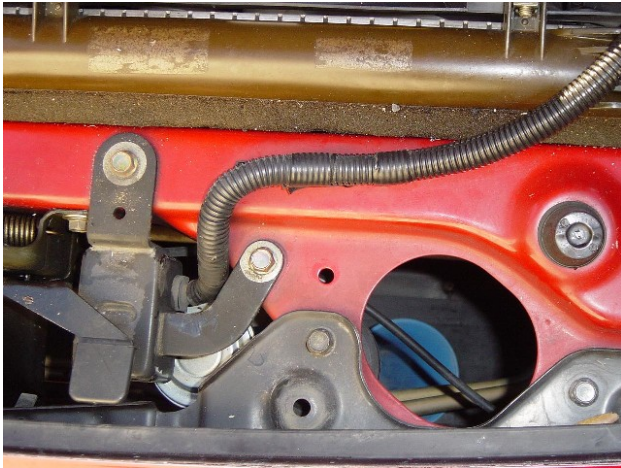


Photo 1-E: Remove the airbag harness fitting from the frame support



Photo 1-F: Relocate airbag harness under the frame support

7. Begin relocating the airbag harness under the frame support.
8. Raise the headlight assembly up (photo does not show the headlight in the up position) to simplify the airbag cable relocation.
9. Feed the airbag harness under the frame support and come out beside the radiator as shown in Photo 1-G.
10. Attach the foam gasket included and modify as necessary around the air bag mounting hardware as shown in Photo 1-H.



Photo 1-G: Attach the Airbag sensor back to the frame support



Photo 1-H: Attach the foam gasket

11. Reattach the airbag sensor to the frame support, but do not reinstall the cover as shown in Photo 1-G.
12. Reconnect the blue connector first flowed by the orange connector. Reconnect the harness using tie-wraps to secure.

If your car has ABS brakes then the windshield washer bottle is located under the front bumper and the filler is located in front of the radiator. Since you do not have to refill your washer bottle probably more than once a year the filler will be lowered and placed under the TDR Radiator Cover. If you do not have the washer bottle located here you can proceed to step 16.



Photo 1-J: Put washers or a spacer the lower the filler



Photo 1-K: Filler should be about equal to the remaining frame work

13. Remove the filler unit from the rubber extend neck.
14. Using about a 1 ½" long bolt (not supplied) and either washers or a spacer reattach the filler neck as shown in Photos 1-J and 1-K.
15. Test fit the filler to make sure it will be below the TDR Radiator Cover as shown in Photo 1-K.



Photo 1-L: Remove 10 mm bolt on each side



Photo 1-M: Put spacer over the hole

16. Remove the 10 mm bolts, one on each end next to the rubber stopper as shown in Photo 1-L.
17. Put the spacer supplied over the hole, it should stay put during the installation of the panel as shown in Photo 1-M.

**CAUTION:** Take care in this next step so not to scratch your paint on the drivers side headlight cover. During the installation you may want to lay a towel on top to protect it.

18. Make sure the headlight assembly is down. With one hand, pull the hood latch up so that you can start feeding the TDR Shield through the opening as shown in Photo 1-L. Watch that you do not scratch the headlight cover.



Photo 1-N: Hold latch up during installation



Photo 1-O: Attach screw with washer into hole

19. Feed the latch through and turn the TDR Shield as you go to align the shield in place as shown in Photo 1-N. Be sure not to hit your spacers and move them out of position.
20. Push the TDR Shield down and under the front rubber seal. Attach the two Nylon bolts and washers supplied as shown in Photo 1-O.

**CAUTION:** Do not over-tighten the Nylon bolts. Turn until you feel tension and no more. The Nylon threads will distort enough to hold the bolt secure.

21. This will complete the installation. You can now reconnect your battery.

We hope you will be pleased with our product. If at any time you need assistance please feel free to contact us at 214-340-9797 or email us at [support@trackdogracing.com](mailto:support@trackdogracing.com).

If you have any comments or suggestions, please let us know. We also have other high performance products for your Miata. Please visit us often at [www.trackdogracing.com](http://www.trackdogracing.com).

We appreciate your business,

The Track Dog Racing Team

**NOTES:**