Miata Air Radical Splitter/Protector

Year: 1999-2000 with factory Sport Lip
Models: TDR-99M125 Radical

Thank you for purchasing the Track Dog Racing Radical Air Splitter/Protector. The Air Splitter is designed to help protect the factory air dam by allowing the Air Splitter to slide over obstacles such as steep driveways. The flexible urethane air dam can flex without scratching the factory paint. Reducing airflow under the car also enhances ground effects. The Air Splitter is made from 3/16" thick, high-impact ABS plastic and surprisingly will take a lot of abuse.

The TDR Radical Air Splitters are supplied with corrosion resistant metal hardware that will hold up to daily use. We specified the metal bolts for durability and strength. Also included are adjustable length aluminum struts for a rigid mounting. Please read the instructions completely before starting. The following tools will be needed for installation.

Tools Needed

Power drill
1/4" drill bit
10mm combination wrench
7/16" combination wrench
Blue medium strength threadlocker
Bubble Level (Optional)
Phillips screw driver
Socket wrench
10mm socket
4mm allen wrench
Paint marker (bright color)

Instructions

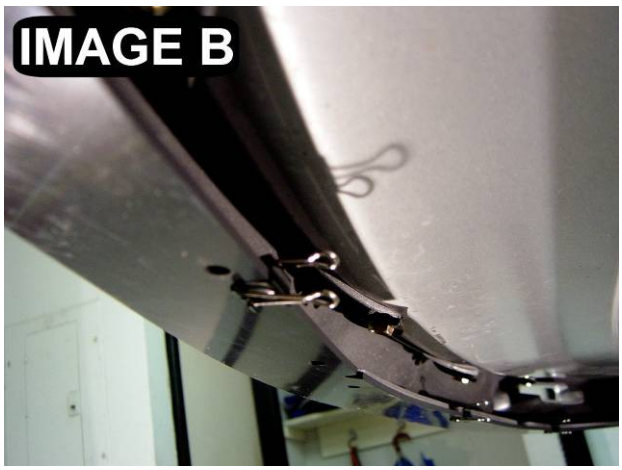
1. The Air Splitter easily mounts to the factory 99-00 Sport air dam with supplied metal hardware. Jack the car up on both sides high enough to be able to get a drill under the car (be sure to use jack-stands for protection).

2. Align the inside edge of the Air Splitter with the inside lower section of the air dam. **(IMAGE A)** Use the supplied clips in the middle and on both ends to temporarily hold the Air Splitter on to the bottom of the factory air dam. **(IMAGE B)** Remember, the textured side faces up. Make sure both ends are properly aligned and the Air Splitter is flush to the lower section of the air dam all the way around. This will give you the proper placement of the Air Splitter when attached to your car and viewed from the front.

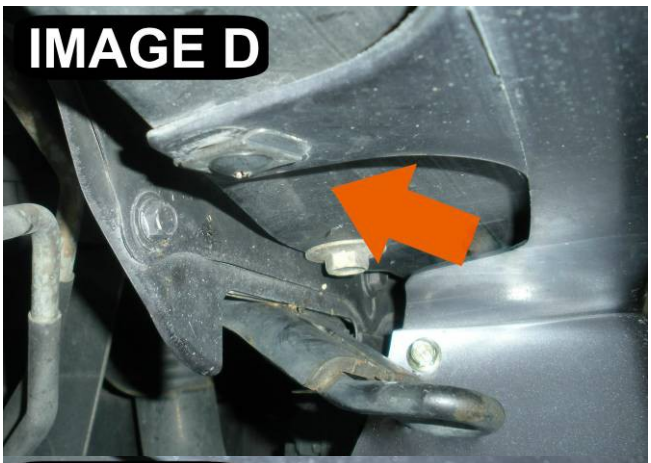
3. The factory plastic air dam is flexible and will match up to the predrilled holes of the Air Splitter. Use a 1/4" drill bit to drill into the air dam. To simplify the installation, <u>drill the second to the end hole first</u> **(IMAGE C)** and mount the Air Splitter using the supplied metal hardware (hand tighten until all hardware is installed). After drilling each hole, remove any plastic shavings that might be between the Air Splitter and the air dam to ensure a clean fit. Drill each hole and attach the hardware as you go.

   NOTE: The temporary clips are guides only. As you drill the actual holes, you may have to adjust the Air Splitter with the air dam for proper alignment.

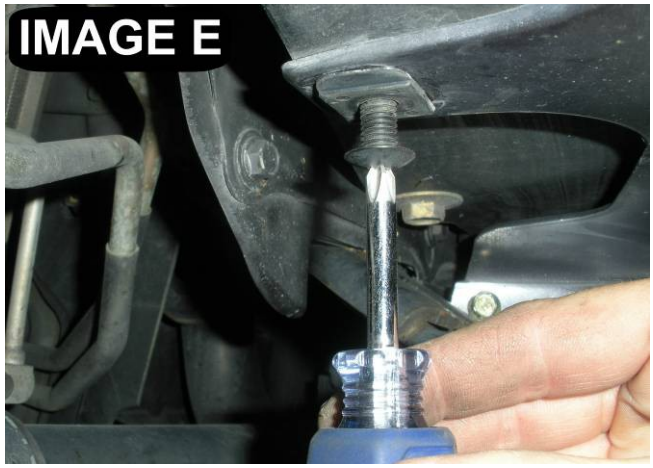
4. After all the holes are drilled and all the hardware is mounted tighten the metal bolts using a 10mm wrench.

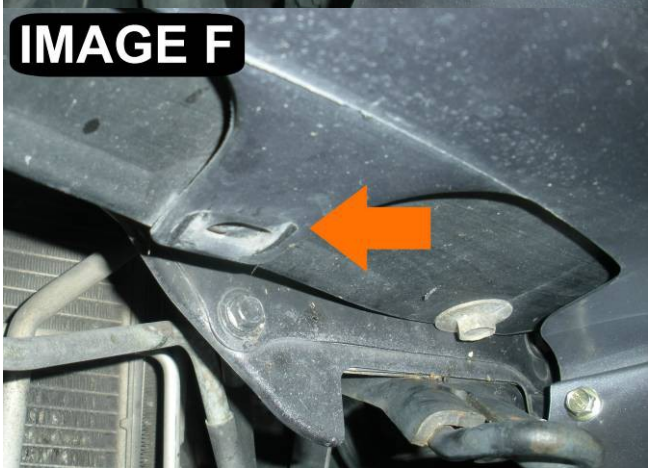


5. Locate the plastic screw fasteners on the top of the grill opening. **(IMAGE D)** There are three of them. We will be removing the two outer most screws above the factory tie-downs

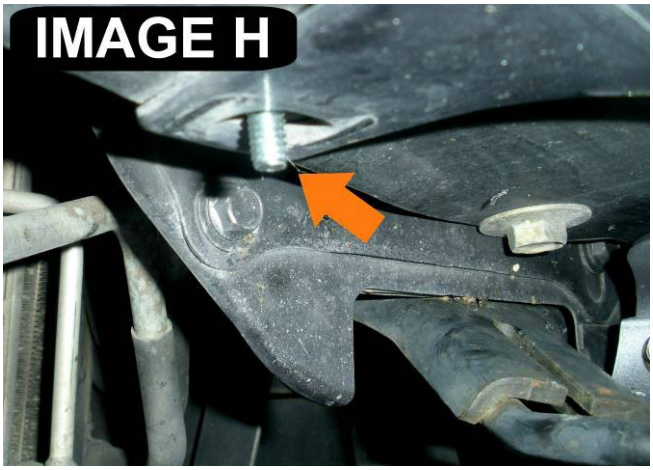


6. Remove the screw in the center **(IMAGE E)** and then you can take the plastic insert out leaving a hole. **(IMAGE F)**



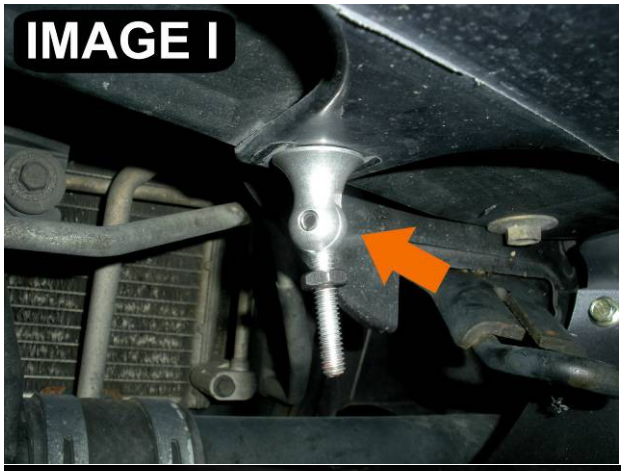


7. You will take the large washer on the SAE threaded bolt **(IMAGE G)** and drop it down from the top through the hole in the hard plastic bumper and bumper cover and drop them down the hole from the top. **(IMAGE H)**

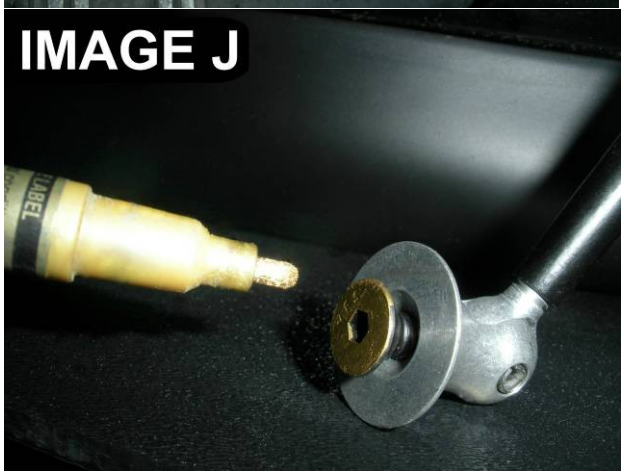


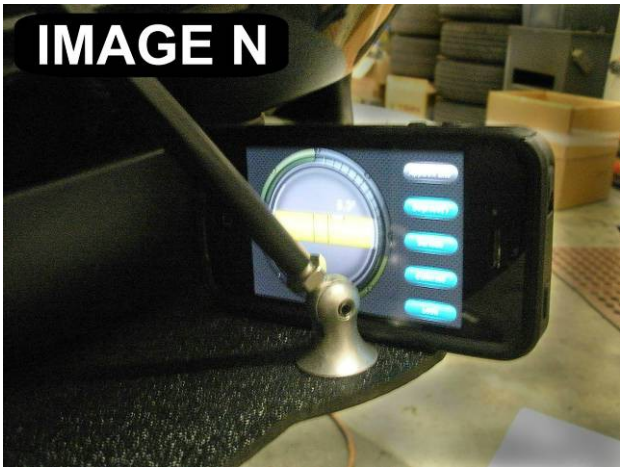
8. You can now install one side of the Air Splitter brace to this bolt. The image at the right **(IMAGE I)** is one side of the Air Splitter brace. You might find it easier to unscrew it from the rod as shown to install on the car.

   NOTE: One side of the rod is reverse threaded. Make note of which direction the end unscrews from the rod.



9. Once these upper mounts are secured, you can then mount the lower portion of the braces outward to the splitter. We left the mounting location your decision, but recommend the area where the front of the splitter curves out an extra inch. An easy trick is to paint the bolt head with a bright colored paint marker and while the paint is still wet, mark the spot where you want to drill. (**IMAGE J), (IMAGE K) and (IMAGE L)**





10. Again, make sure you're even on both locations, drill once! **(IMAGE M)** Install the supplied Allen head bolt to secure the brace to the splitter. Now you can extend the braces as you see fit. There is a lot of adjustment in them. You can use a level to fine tune the degree of angle to balance both sides. **(IMAGE N)** Once you have them set, secure with the lock nut located on one side of the brace.

11. Position the other side of the strut where you prefer. Make sure both sides are even and drill a hole to secure it with the included Allen had bolt.

NOTE: Make sure the bolts securing the top of the strut and the bottom of the strut are secure. We recommend using **BLUE** medium strength threadlocker on these bolts to keep them from vibrating loose.

Strut Adjustment

The strut is adjustable and one side has reverse threads. Turning the black center rod of the strut you can lengthen or shorten the strut as needed. Adjust length to set degree of level you prefer. Finally, tighten lock nut to insure it doesn't move.

Cleaning and Care

When cleaning your Track Dog Racing Air Splitter, do not use high-pressure water directly on the label as it might remove it. Do not apply wax directly to the Air Splitter as it will be difficult to remove the dry film from the textured surface. Using an oil-base product that you would normally use on vinyl will enhance the appearance.

We hope you enjoy your new Track Dog Racing Air Splitter. We are adding new products continuously so visit us often. We appreciate your business,

The Track Dog Racing Team

Notes: