## FS Performance Engineering x RGR Engineering

Mazda Miata NB (1999-2005) Rear Diffuser Installation Instructions A collaboration between two engineering companies.

## **Tools Needed:**

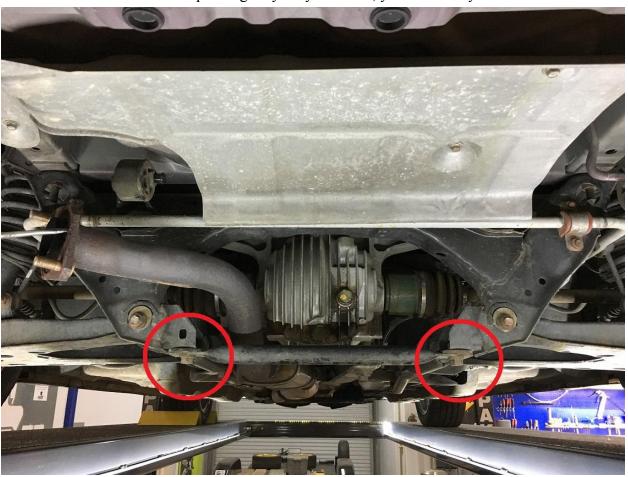
- 12mm wrench/socket
- 17mm wrench/socket
- 19mm wrench/socket (possibly)
- 4mm or 5/32" allen wrench
- A friend (hopefully not a tool)
- Blue threadlocker (optional)

## **Included in Kit:**

- (1) Flow Optimized NB Diffuser
- (1) FSPE x RGR Mounting Bracket
- (2) M12-1.5 x 40mm bolts
- (2) M12 washers
- (2) M8-1.25 x 30mm bolts
- (4) M8 small washers (same as 5/16" washers)
- (2) M8 nyloc nuts
- (5) M6-1.0 x 20mm Countersunk Stainless Steel Bolts
- (5) M6 Countersunk Washers

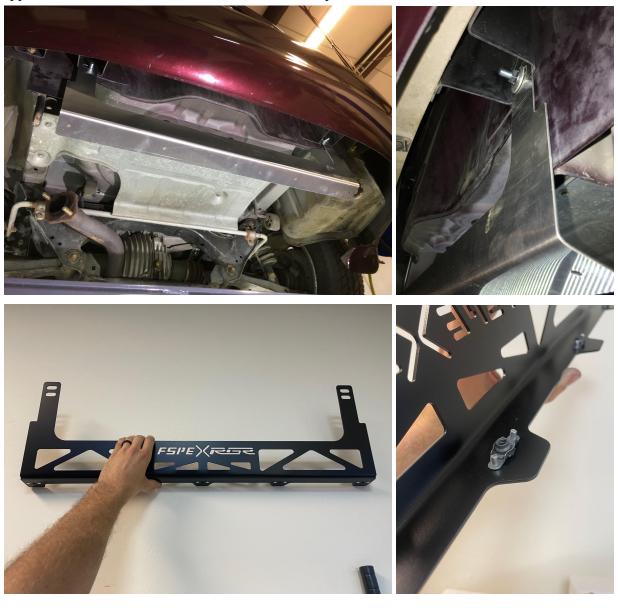
## **Steps:**

- 1. Raise your Miata and secure it with jack stands.
- 2. Remove the two bolts at the rear subframe bracing using a 17mm socket. This bracing is just behind the rear differential. Depending on your year miata, your bolts may have a 19mm head.

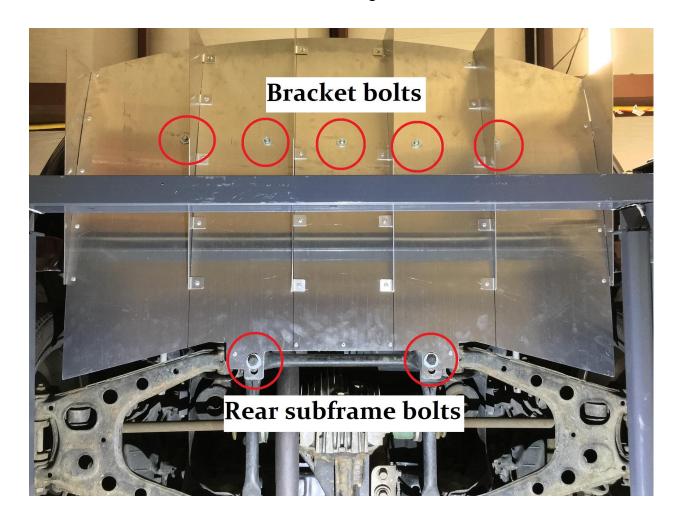


- 3. Locate the two holes just above the rear tow hooks. Install the supplied bracket using the following hardware.
  - (2) M8-1.25 x 30mm bolts
  - (2) M8 washers (send backward from the front of the car)
  - (2) M8 washers
  - (2) M8 nyloc nuts on the other side.

Your bracket will have two holes on top of one another. Choose the hole location that best suits your needs. For example, if you have a rear lip on the bumper you might want to choose the upper holes so the diffuser sits lower to clear the lip.



- 4. With help from a friend, install the diffuser. Hold it up to the rear subframe and bracket.
  - Install two M12-1.5 x 40mm bolts and two M12 washers into the rear subframe. You are replacing the OEM bolts. Hand tighten.
  - At the bracket, install five M6-1.0 x 20mm countersunk bolts facing upward with M6 countersunk washers under the heads. Hand tighten.



5. Adjust the diffuser forward/backward if necessary so it is square with the frame, and then securely tighten the subframe and bracket-to-diffuser bolts.

NOTE: If you plan on bringing the vehicle to the race track, it may be a good idea to place a little bit of blue threadlocker on the threads of the large M12 bolts on the subframe.

6. Enjoy your new rear diffuser! Remember to send us pictures once it is installed.



Questions or Concerns?

Contact FSPE here: 661-809-0954, or costas@fspeinc.com

Contact RGR here: <a href="mailto:rgrdesignand@gmail.com">rgrdesignand@gmail.com</a>