

FS Performance Engineering x RGR Engineering
Mazda Miata NA (1989-1997) Rear Diffuser Installation Instructions
A collaboration between two engineering companies.

NOTE: NA6 Miatas might not have subframe bracing. Additional brackets are provided to install on NA6 Miatas.

Tools Needed:

- 10mm wrench/socket
- 12mm wrench/socket
- 14mm wrench/socket
- 17mm wrench/socket
- 19mm wrench/socket (possibly)
- 4mm or 5/32" allen wrench
- A friend (hopefully not a tool)
- Blue threadlocker (optional)
- Telescoping magnet, small magnet (very helpful for NA6 chassis)

Included in Kit:

- (1) Flow Optimized Diffuser
- (1) FSPE x RGR Mounting Bracket
- (1) Sway Bar Bracket (only applicable on NA6 or Miatas without rear subframe bracing)

C27 - (2) M12-1.5 x 40mm bolts

C28 - (2) M12 washers

C29 - (2) M12-1.25 x 40mm bolts

C14 - (4) M8 whiz nuts

D15 - (4) M8 small washers (5/16" ID)

C02 - (2) M8-1.25 x 30mm bolts

C13 - (2) M8 nyloc nuts

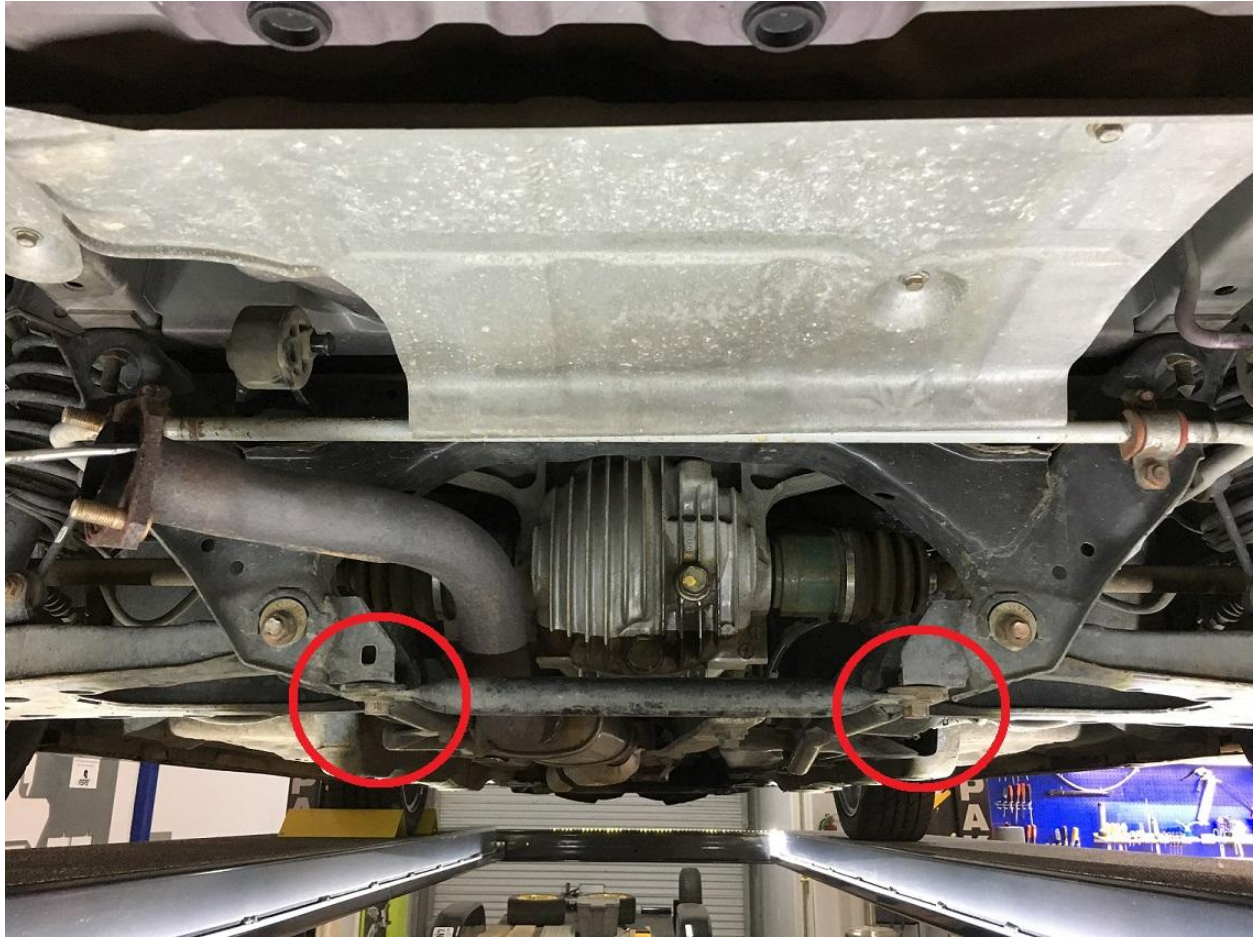
D16 - (4) 5/16 x 1.25" Washers

B21 - (5) 1/4-28 x 1" Countersunk/Flathead Stainless Steel Bolts

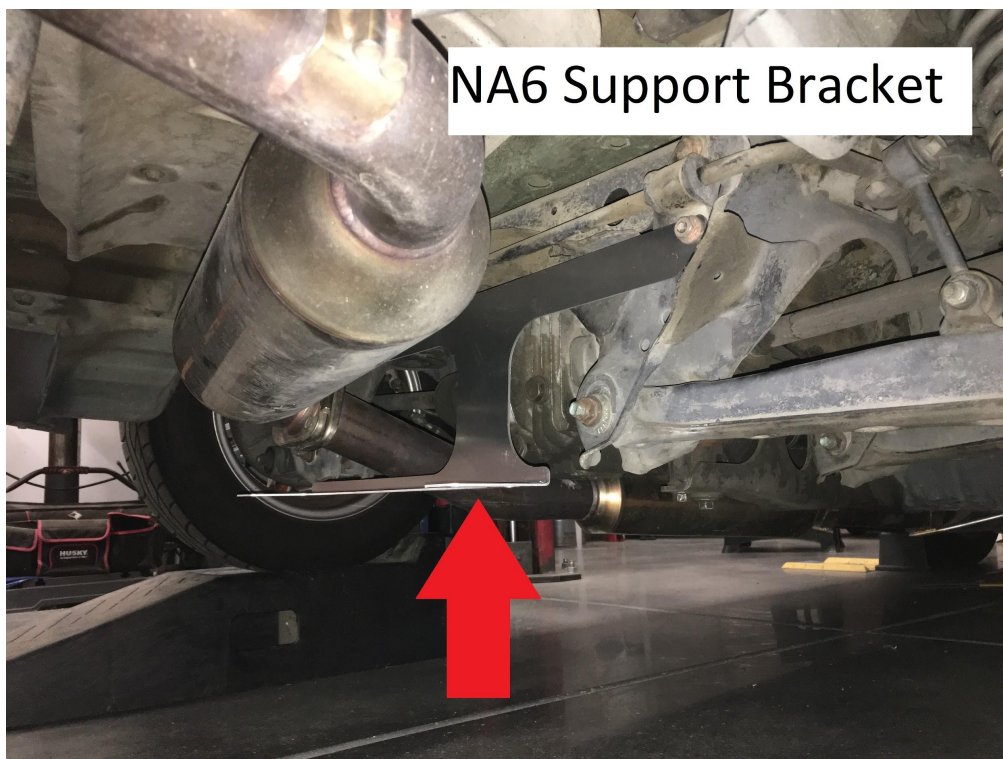
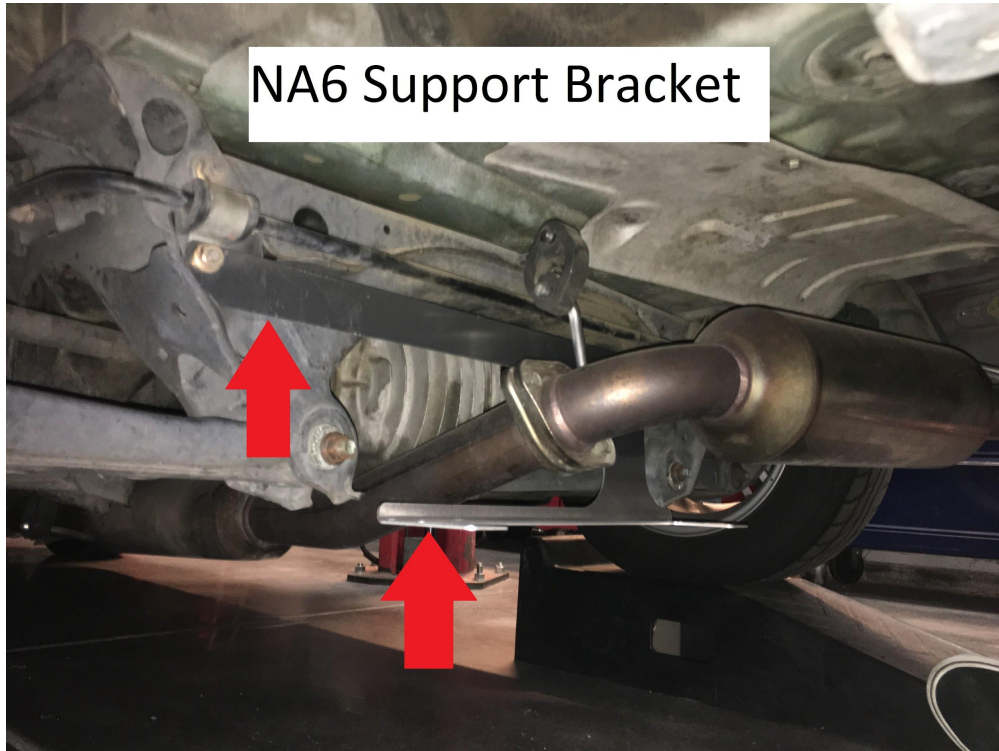
B28 - (5) 1/4" Countersunk Washers

Steps:

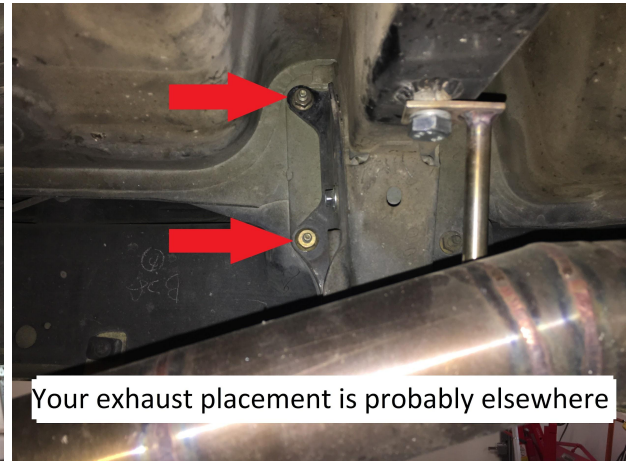
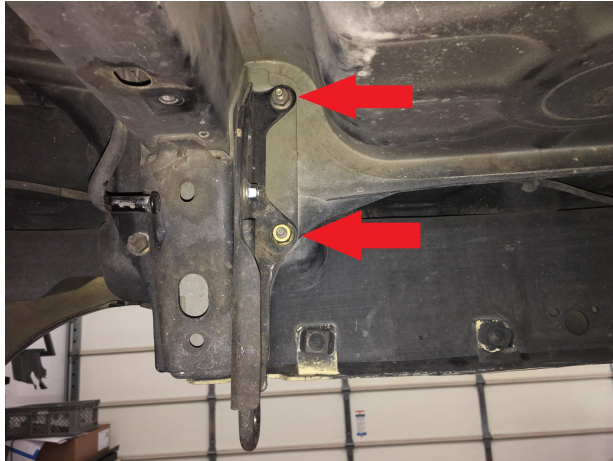
- 1.) Raise your Miata and secure it with jack stands.
- 2.) Remove the two bolts at the rear subframe bracing using a 17mm socket. This bracing is just behind the rear differential. Depending on your year miata, your bolts may have a 19mm head.



3.) If you own a NA6 Miata that has no rear subframe bracing, you will need to install our supplied bracket. Identify the bolts that hold the rear sway bar on and remove them with your 14mm wrench. Then attach the sway bar bracket we provided. Tighten securely and feel free to use thread locker if you feel necessary.



4.) Locate the four nuts/bolts holes that hold the bumper to the tow hooks. Remove the nuts using a 14mm wrench/socket and install the supplied bracket as shown. Tighten securely. If you don't have one (or both) tow hooks you will be fine. If you are missing nuts we have provided the M8 whiz nuts and washers to use. Keep in mind that your bracket will have five holes that have pre-installed nuts, not six open holes like the pic shown.



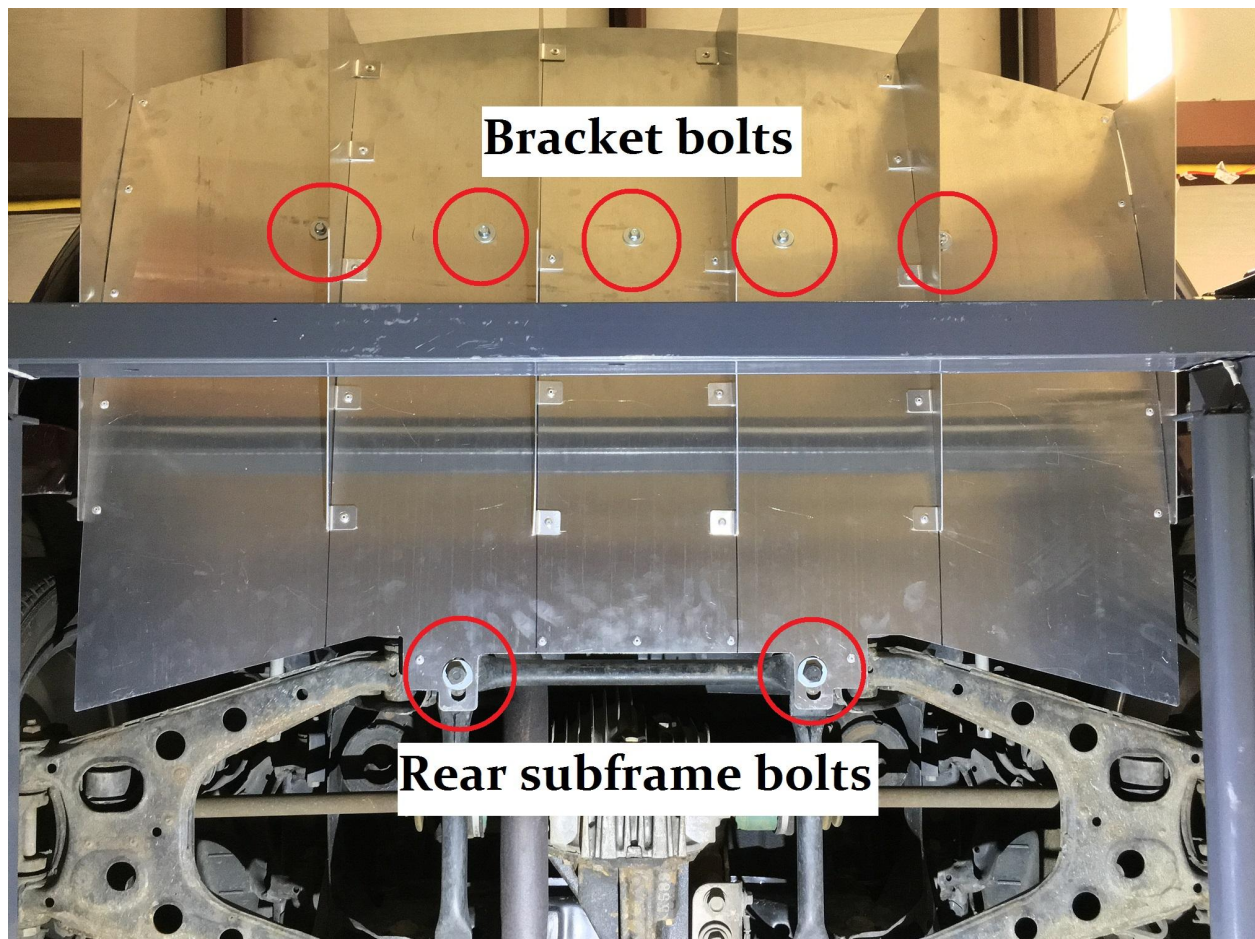
5.). With help from a friend, install the diffuser using the following...

Please note that we supply both M12-1.25 and M12-1.5 bolts. These bolts threads seem to vary among Miatas over the years, so choose the one that threads into your rear subframe.

NA8 MIATAS: (2) M12-1.5 x 40mm or M12-1.25 x 40mm bolts and (2) M12 washers into the rear subframe. You are replacing the OEM bolts. Hand tighten for now.

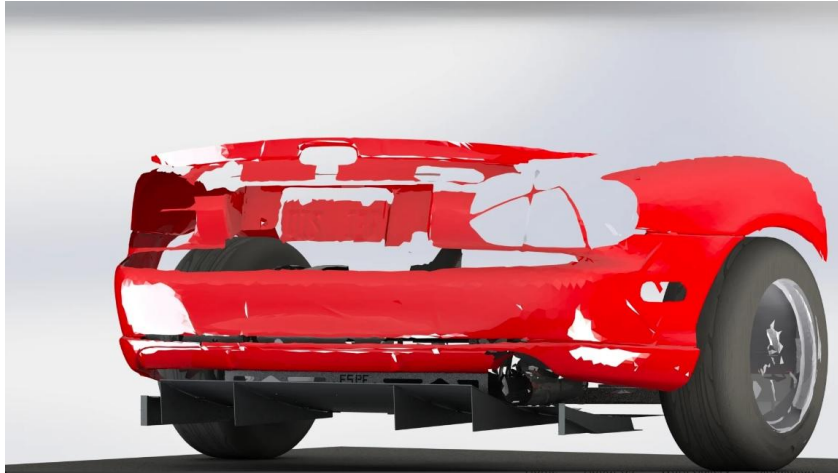
NA6 MIATAS WITH NO SUBFRAME BRACING: (2) M8-1.25 x 30mm bolts w/ a LARGE fender washer (1.25" OD) on the bottom **and** top and a M8 nyloc nut on top. You are attaching the diffuser to the sway bar bracket. Hand tighten for now.

NA8 & NA6 MIATAS: Using (5) 1/4-28 x 1" countersunk bolts facing up with (5) countersunk washers, install the diffuser to the tow hook bracket as shown. Hand tighten for now.



7. Adjust the diffuser forward/backward as you would like and tighten securely every single bolt/nut that has been installed. Blue threadlocker can be used on the subframe bolts for high speed applications.

8. Enjoy your new FSPE x RGR rear diffuser! Remember to send us pictures once it is installed.



Questions or Concerns?

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

Contact RGR here: rgrdesignand@gmail.com