

VERUS ENGINEERING

ND Miata Front Splitter Kit

Install Manual



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01	2017/01/31	E.Hazen	Initial release of install manual

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1. Introduction

1.1. Overview: Detailed instructions on installing the ND Miata rear suspension cover.

1.2. Difficulty: Beginner-Moderate

1.3. Time Required: 2 Hours

1.4. Tools Needed:

- 1.4.1. Jack
- 1.4.2. Jack Stands
- 1.4.3. Ratchet
- 1.4.4. 10mm socket/wrench
- 1.4.5. Philips screwdriver
- 1.4.6. 3mm Allen Wrench
- 1.4.7. 4mm Allen wrench
- 1.4.8. 7mm deep well socket
- 1.4.9. 8mm deep well socket

1.5. Front Splitter Components

- 1.5.1. (1) Front Splitter
- 1.5.2. (1) Splitter Bracket
- 1.5.3. (1) Hardware Bag
 - 1.5.3.1. (1) M6 x 1.0 SS BHCS, 20mm Length
 - 1.5.3.2. (1) M6 SS Fender Washer
 - 1.5.3.3. (3) M6 x 1.0 Flanged SS Serrated Nut
 - 1.5.3.4. (6) M6 x 38mm SS Washer
 - 1.5.3.5. (2) M6 Clip On Nuts
 - 1.5.3.6. (4) M6 x 1.0 SS BHCS, 60mm Length
 - 1.5.3.7. (4) M6 Pushnut Bolt Retainer
 - 1.5.3.8. (8) M5 Pushnut Bolt Retainer
 - 1.5.3.9. (2) M5 x 0.8 SS BHCS, 70mm Long
 - 1.5.3.10. (6) M5 x 0.8 SS BHCS, 60mm Long
 - 1.5.3.11. (8) M5 x 25mm SS Washer
 - 1.5.3.12. (10) 5mm Long Nylon Spacer
 - 1.5.3.13. (15) 10mm Long Nylon Spacer
 - 1.5.3.14. (10) 15mm Long Nylon Spacer



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2. Front Splitter Installation

- 2.1. Verus is not responsible for damage to you or your vehicle by following this manual and/or installing Verus Engineering products.
- 2.2. We begin by jacking the car up. You will want to choke the rear wheels and do this on a flat surface to ensure the car does not want to roll away. Using a lift is also perfectly fine for this install.
- 2.3. Place a jack stand on either side of the car, you can use the frame rails or the pinch welds.
- 2.4. With the front of the car off the ground, we can get a better idea of what we're working with.



- 2.5. Below are bolts that need to be removed to begin the installation.



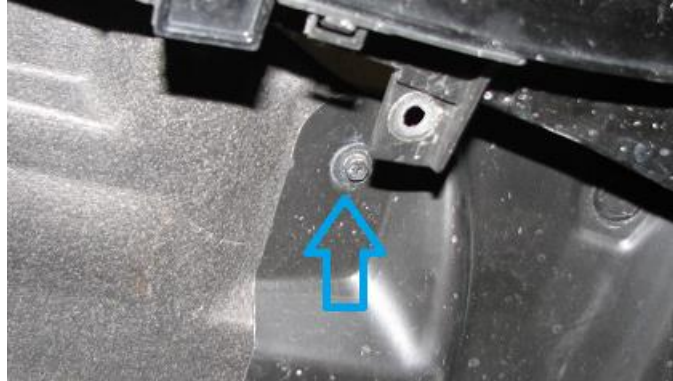
- 2.6. With these bolts removed, we can pull the center fabric under panel down to expose OEM plastic clips (red circles below).



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- 2.7. To fully pull the fabric undercover down, remove the two bolts that hold the fender well plastic to the fabric (blue circles above).



- 2.8. With the bolts removed, you can pull the fabric down. Push the bottom of the bumper forward, and the fabric rearward to fully pull the fabric cover down.



- 2.9. Using finger pressure, remove these plastic clips by pushing rearward.

- 2.10. Push on the supplied M6x1.0 metal clip.



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- 2.11.** While pulling the fabric underbody cover down, we can push the splitter bracket above the cover to be bolted to the crash beam.



- 2.12.** With the cover above the underbody panel, we can use the shortest M6 screw, an 18mm large washer, and a serrated nut to thread the panel on. The bracket's bottom bend should be facing rearward, with the slots lining up with the underbody panel's holes.



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- 2.13. Place the underbody cover back in the original location.



- 2.14. We can now get the splitter ready for install.

- 2.15. Place the splitter on a piece of cardboard, with the side that you'd like to face upward, facing upward.



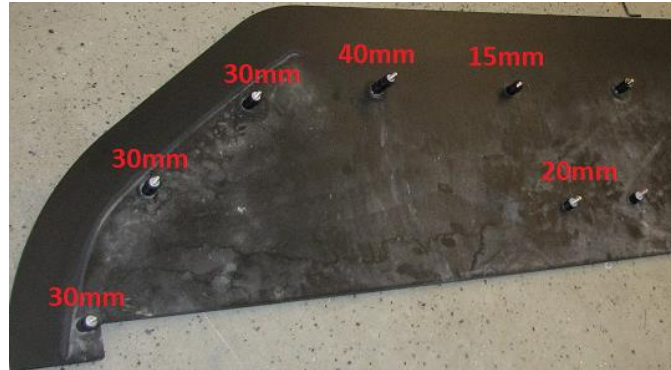
- 2.16. Looking below, we created a “cheat sheet” for bolt sizes. Place these below the splitter with a **properly sized washer between the bolt head and splitter on each**. Allow the bolts to stick through the splitter.



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- 2.17.** The below photo shows the spacer sizes we used on our shop car. We recommend checking this with your car as well, but this should get you very close. Use the 5, 10, and 15mm spacers to reach these spacer lengths.



- 2.18.** With the spacers installed, utilize the bolt retaining washers to keep the spacers on while installing the splitter. Use deep well 7mm and 8mm sockets to push these down onto the spacers.



- 2.19.** On the front two M6 bolts, we install the large fender washers above the bolt retaining washers.



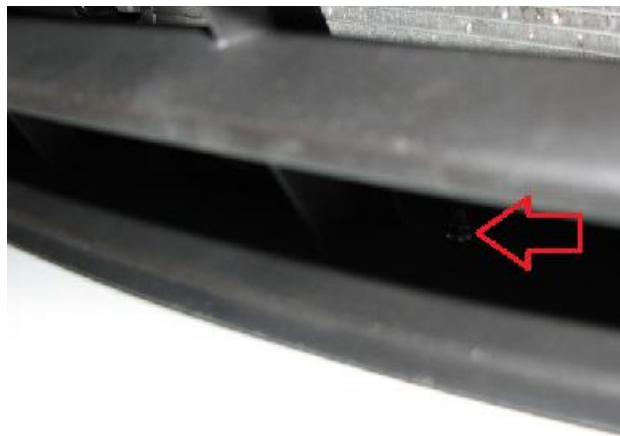
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- 2.20.** With all the bolt retaining washers installed, we can begin installing the splitter on the car. We found that installing the M5 bolts first to be best (yellow arrows initially).



- 2.21.** For the rear two M6 bolts, we need to reach through the grill to place M6 nuts on top of the bracket.



- 2.22.** At this point, ensure the top bolt of the rear bracket for the splitter is tightened fully.
- 2.23.** Finalize the install by double checking all bolts and ensuring they are fully tightened.
- 2.24.** This concludes the ND Miata front splitter install, congratulations! Please send any comments, concerns, questions, and general feedback to Verus Engineering via sales@verus-engineering.com.