

## CorkSport Exhaust Systems

2016+ ND MX-5



**Thank you for purchasing the CorkSport Axle-Back Exhaust.** Liven up your ND with a sporty exhaust note that won't drive you crazy during the long drives. Featuring stainless steel 60mm pipe, high-flow resonator, and dual double wall tips.

Please let us know what you think about this box by leaving a review here:

<http://corksport.com/2016-up-miata-axle-back-exhaust.html>

### Pre-Installation Notes:



**Make sure your vehicle is on a level surface** and supported by jack stands (not a hydraulic jack) prior to starting installation. Refer to service manual for lifting and jack stand locations.



**Verify that the exhaust system is cool before beginning.** Failure to do so may result in burns.



**These instructions were written for reference only** and the use of a factory service manual is recommended. Please read these instructions thoroughly prior to starting installation



**These installation instructions were written using a 2016 ND MX-5 Launch Edition.** Other models will be similar.

### Materials and Time:



#### General Info.

Part #: NDM-6-100-10

Time Est: 2-3 hours

Wrench Rating: 2/5



#### Tooling List

14mm Wrench

17mm Wrench

12mm Socket ½" Drive

17mm Socket ½" Drive

½" Ratchet Drive

Large Jaw Channel Locks

Silicone/Lithium Spray



#### Parts List

See Front Page

Need Help With Your Installation?

Call (360) 260-CORK



## Order of Operations & Table of Contents



### Disassembly

Section 1: OEM Axle-Back Removal

Section 2: OEM Mid-Section Removal

Pg. 2

Pg. 3-4



### Assembly

Section 3: CorkSport Mid-Section Installation

Section 4: CorkSport Axle-Back Installation

Pg. 5-7

Pg. 8

## Detailed Instructions

### 1. OEM Axle-Back Removal

- a) Remove the two 14mm nuts shown with the red circles in Figure 1b. Set the springs to the side as they will be used with the CorkSport axle-back exhaust.
- b) Use the large jaw channel locks to disconnect the OEM hangers from the exhaust, shown in Figure 1c. If you are having difficulties, spray a small amount of silicone or white lithium grease on the end of the exhaust hanger rod. Complete for all four hangers
- c) Remove the OEM axle-back exhaust from the vehicle.

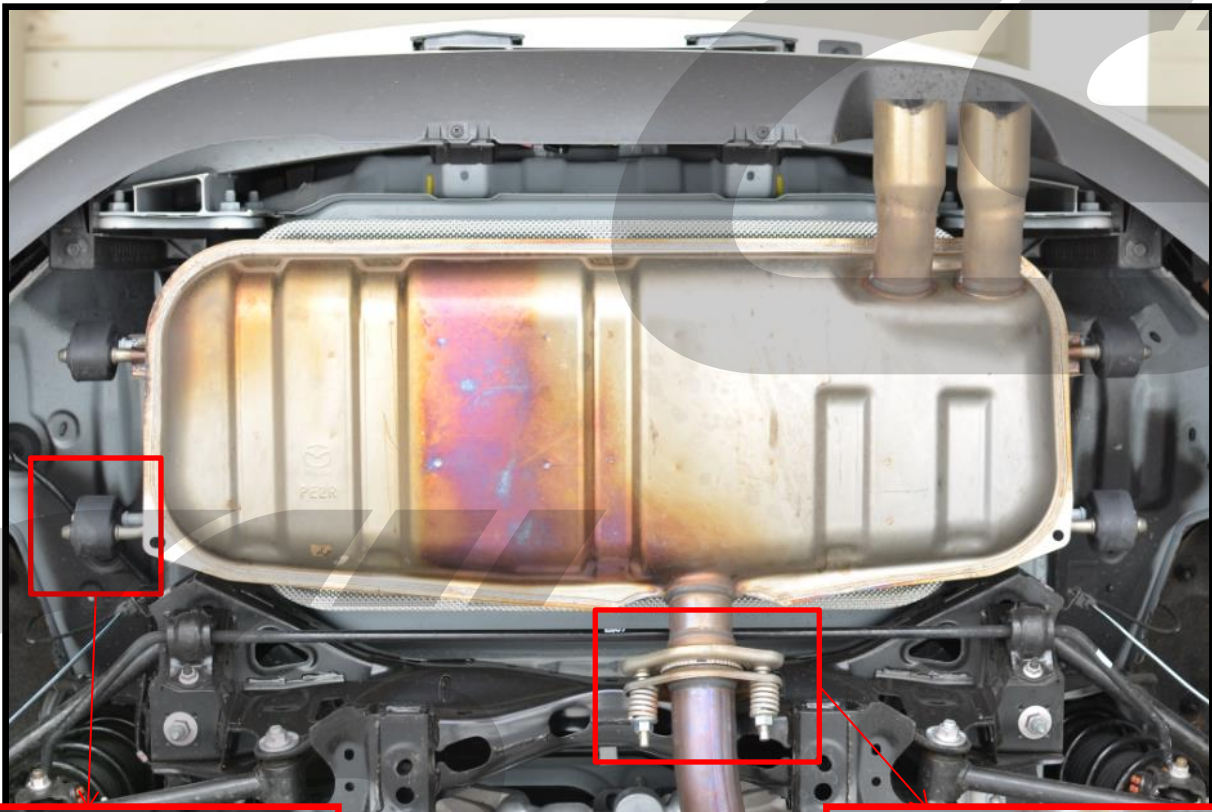


Figure 1a

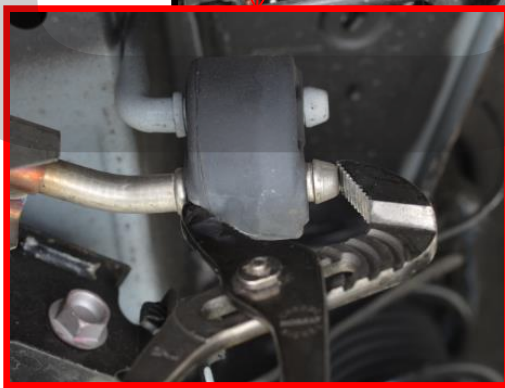


Figure 1c

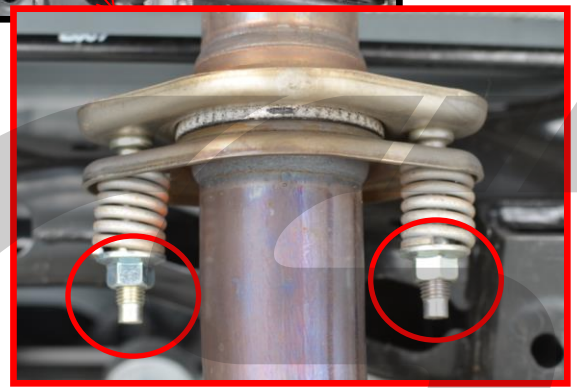


Figure 1b



If you are installing the CorkSport mid-section and axle-back exhaust proceed to page 3  
If you are installing only the CorkSport axle-back exhaust proceed to page 7

Part # NDM-6-100

## Detailed Instructions

### 2. OEM Mid-Section Removal

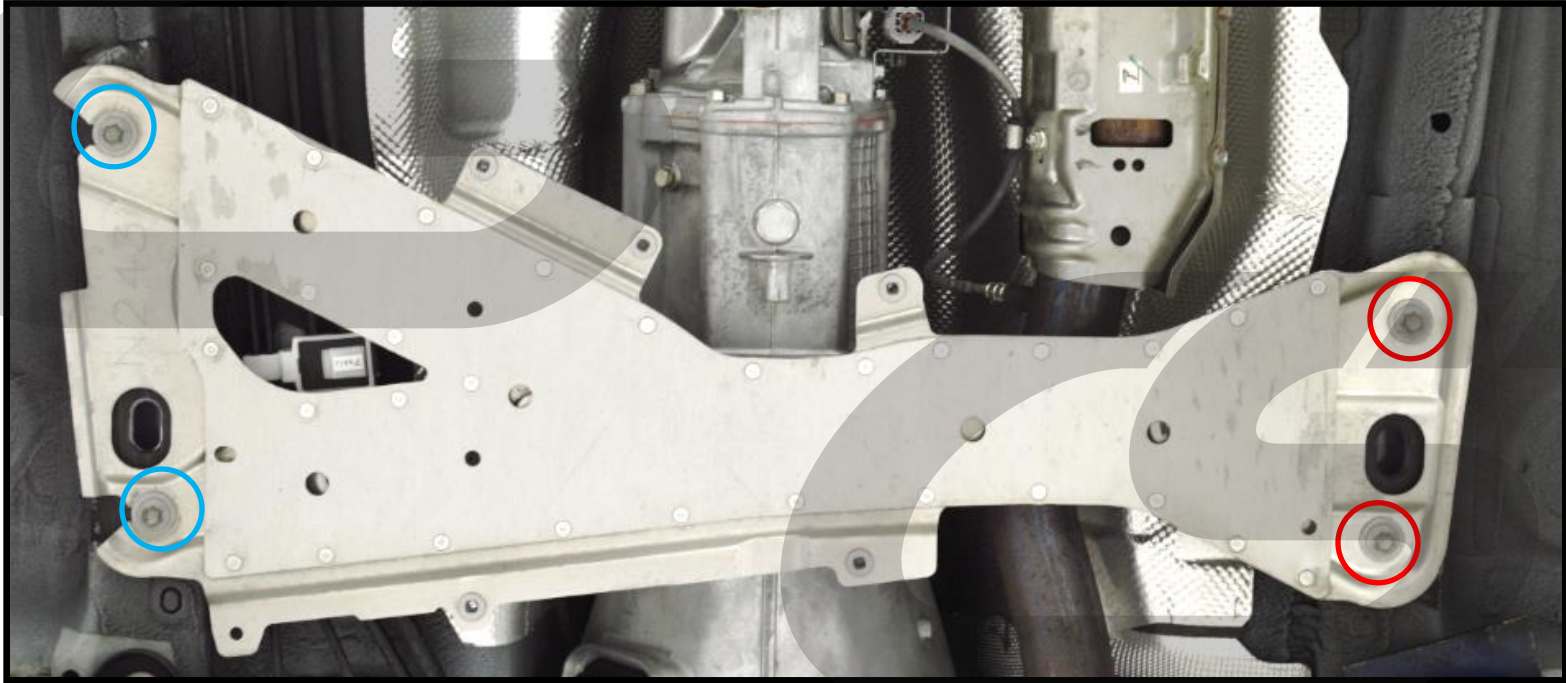


Figure 2a

- a) **Remove the undercarriage braces.** Loosen the three 12mm bolts circled in blue in Figures 2a & 2b. Remove the five 12mm bolts circled in red in Figures 2a & 2b. **Remove the braces from the vehicle.**

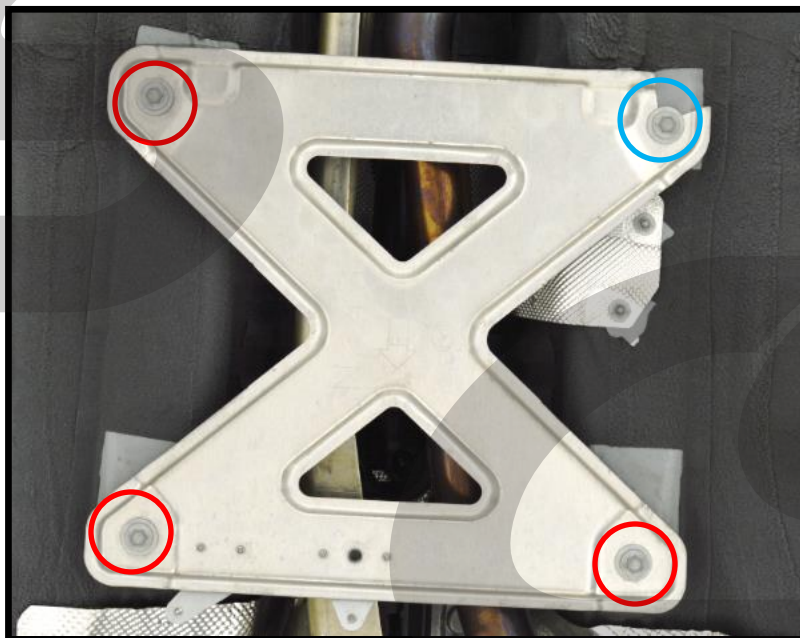


Figure 2b

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# Part # NDM-6-100

## Detailed Instructions

### 2. OEM Mid-Section Removal (continued)

- b) Disconnect the O2 sensor wire shown with the red circle in Figure 2c.
- c) Remove the two 14mm nuts connecting the mid-section to the exhaust manifold. Shown with red circles in Figure 2d.
- d) Remove the OEM exhaust hanger from the mid-section as shown in Figure 1c on Page 2.
- e) Remove the mid-section exhaust from the vehicle.
- f) Remove the O2 sensor from the OEM mid-section exhaust. Remove the 10mm bolt holding the wire bracket then use a O2/oxygen sensor socket to remove the sensor. Both are shown in Figure 2e with red circles.

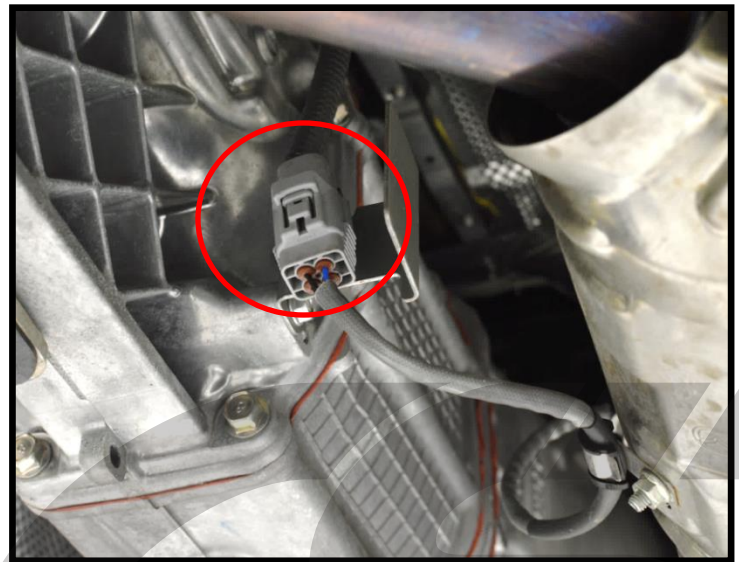


Figure 2c

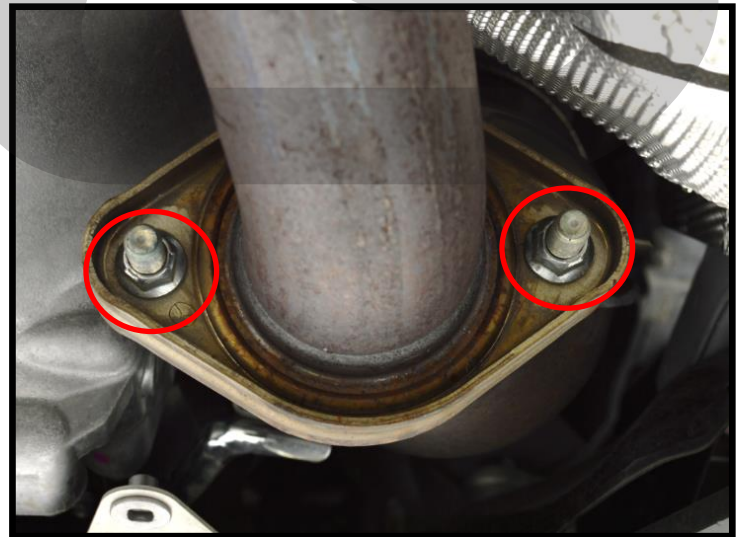


Figure 2d

Oxygen Sensor Socket

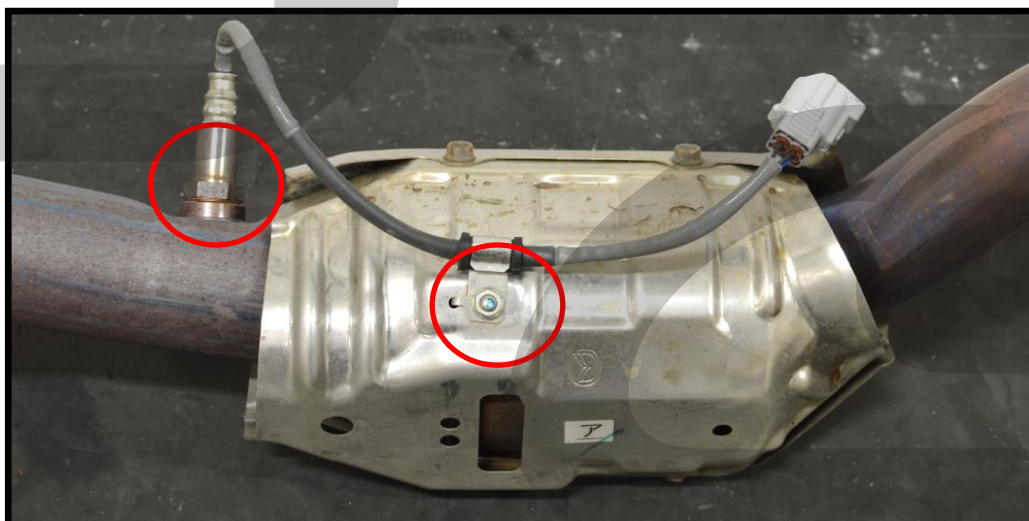


Figure 2e

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## Part # NDM-6-100

### Detailed Instructions

#### 3. CorkSport Mid-Section Installation

- a) **Assemble the two CorkSport Mid-Sections.** Using the provided fasteners and gasket, align the flange edges of the forward and rearward mid-sections. Assemble the fasteners and gaskets as **shown in Figure 3a**. Torque the 17mm nuts/bolts to **45-50 ft-lbs**.
  
- b) **Verify the exhaust routing matches OEM as shown in Figure 3b.**

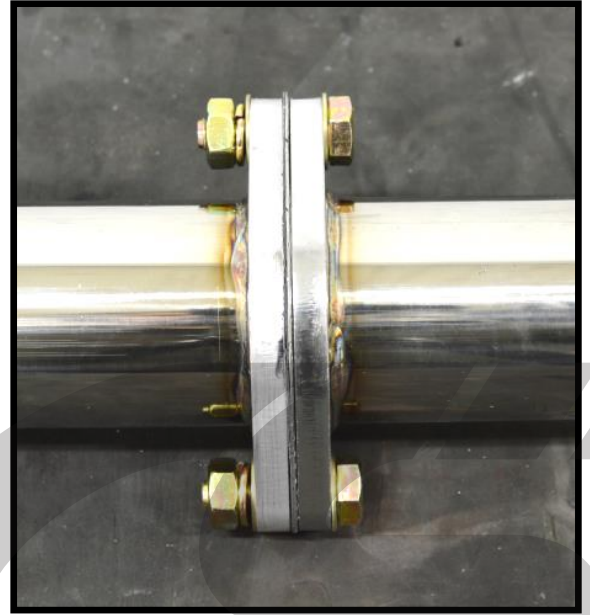


Figure 3a



Figure 3b

- c) **Install the O2 sensor into the CorkSport forward mid-section.** O2 port **shown in Figure 3b**. Torque to **26-33 ft-lbs**.

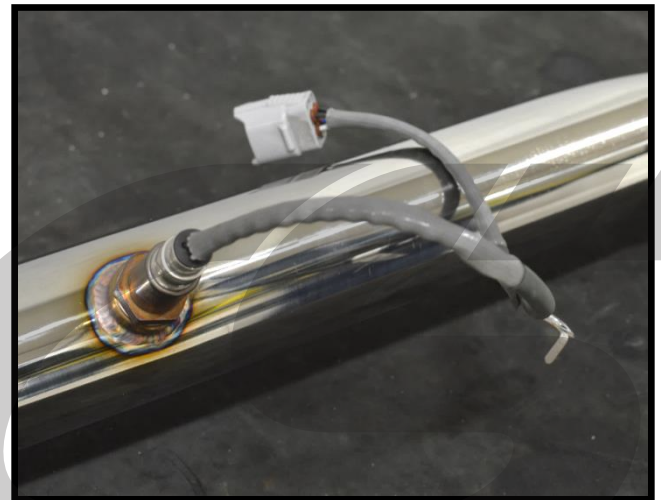


Figure 3c

## Detailed Instructions

### 3. CorkSport Mid-Section Installation (continued)

- d) **Install the assembled CorkSport mid-section.** Spray a small amount of silicone or white lithium grease on the end of the exhaust hanger rod on the CS exhaust for easier installation. Install the large flange to the OEM exhaust manifold with the two OEM 14mm nuts. Snug but do not fully tighten yet. Install the hanger rod into the rubber hanger. **See Figure 3d.**

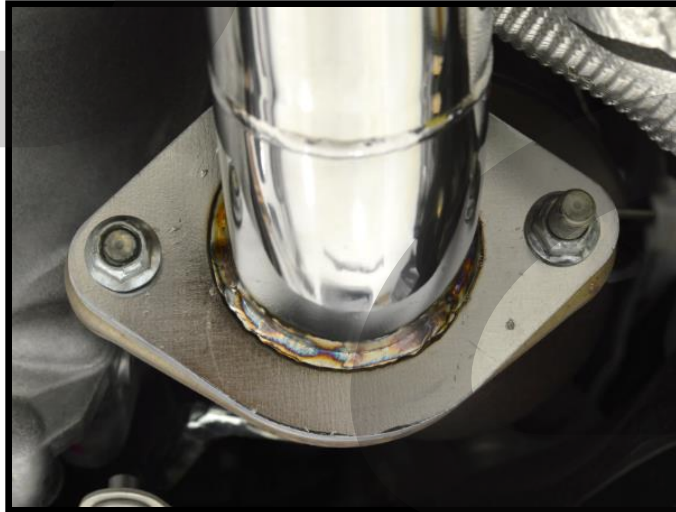


Figure 3d

- e) **Torque the 14mm nuts connecting the mid-section and exhaust manifold to 32 – 37 ft-lbs.**
- f) **Install/Connect the O2 Sensor wire.** Remove the 10mm bolt **circled in red in Figure 3e.** Install the sensor wire bracket that was originally attached to the OEM exhaust; **shown in Figure 3f. Torque to 8-10 ft-lbs.** Connect the O2 sensor wires.

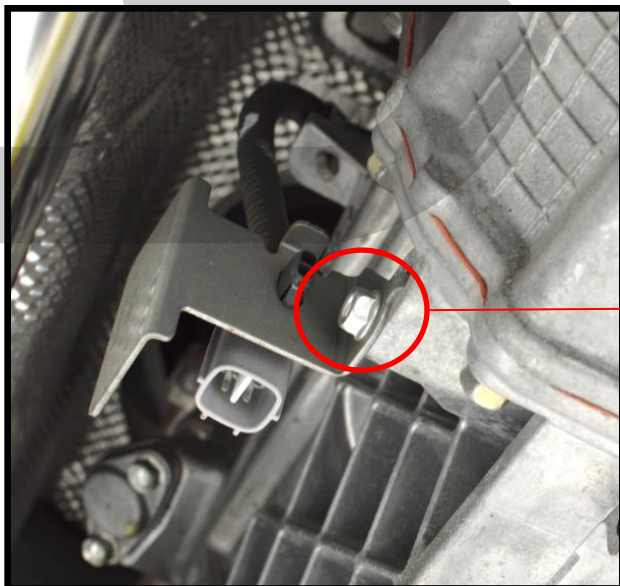


Figure 3e

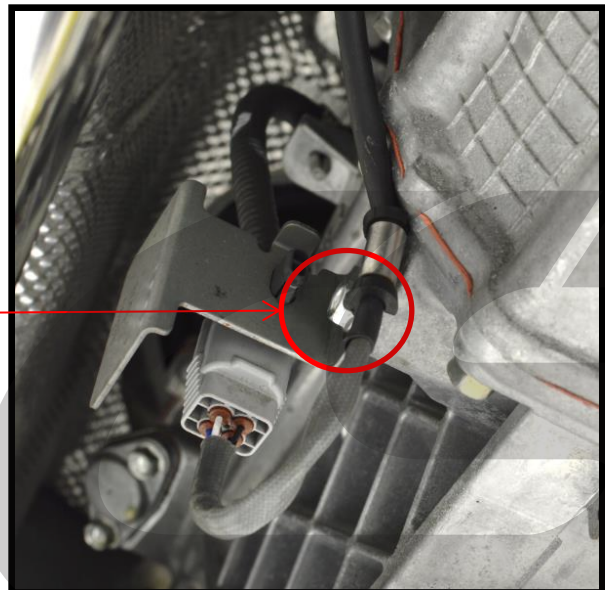


Figure 3f



## Detailed Instructions

### 3. CorkSport Mid-Section Installation (continued)

- g) Install the provided donut gasket to the end of the mid-section exhaust.
- h) Install the undercarriage braces. **Torque the 12mm bolts to 21-28 ft-lbs.**
- i) **Figure 3g shows the assembled mid-section and axle-back exhaust.** For complete axle-back exhaust installation instructions please continue to page 8.

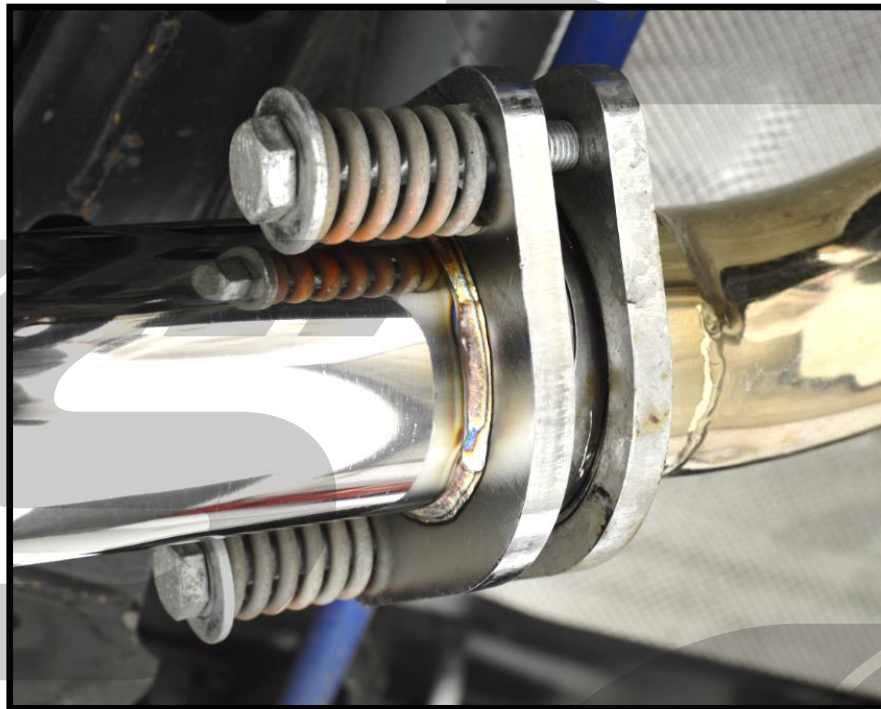


Figure 3g

## Detailed Instructions

### 4. CorkSport Axle-Back Installation

- a) Install the CorkSport axle-back as shown in **Figure 4a**. Spray a small amount of silicone or white lithium grease on the end of the exhaust hanger rod on the CS exhaust for easier installation.
  - a) Note: the hanger circled in red is not used
- b) Locate the provided bolts and washers then assemble them as shown in **Figure 4b**.
- c) Using a 17mm wrench, install the assembled hardware onto the exhaust as shown in **Figure 4c**. Tighten the bolts down till there is approximately business card's thickness gap between the spring coils and verify that the CorkSport flange is parallel to the OEM/CorkSport Mid-Section flange.
- d) Adjust the hangers to center the exhaust tips in the bumper indent.

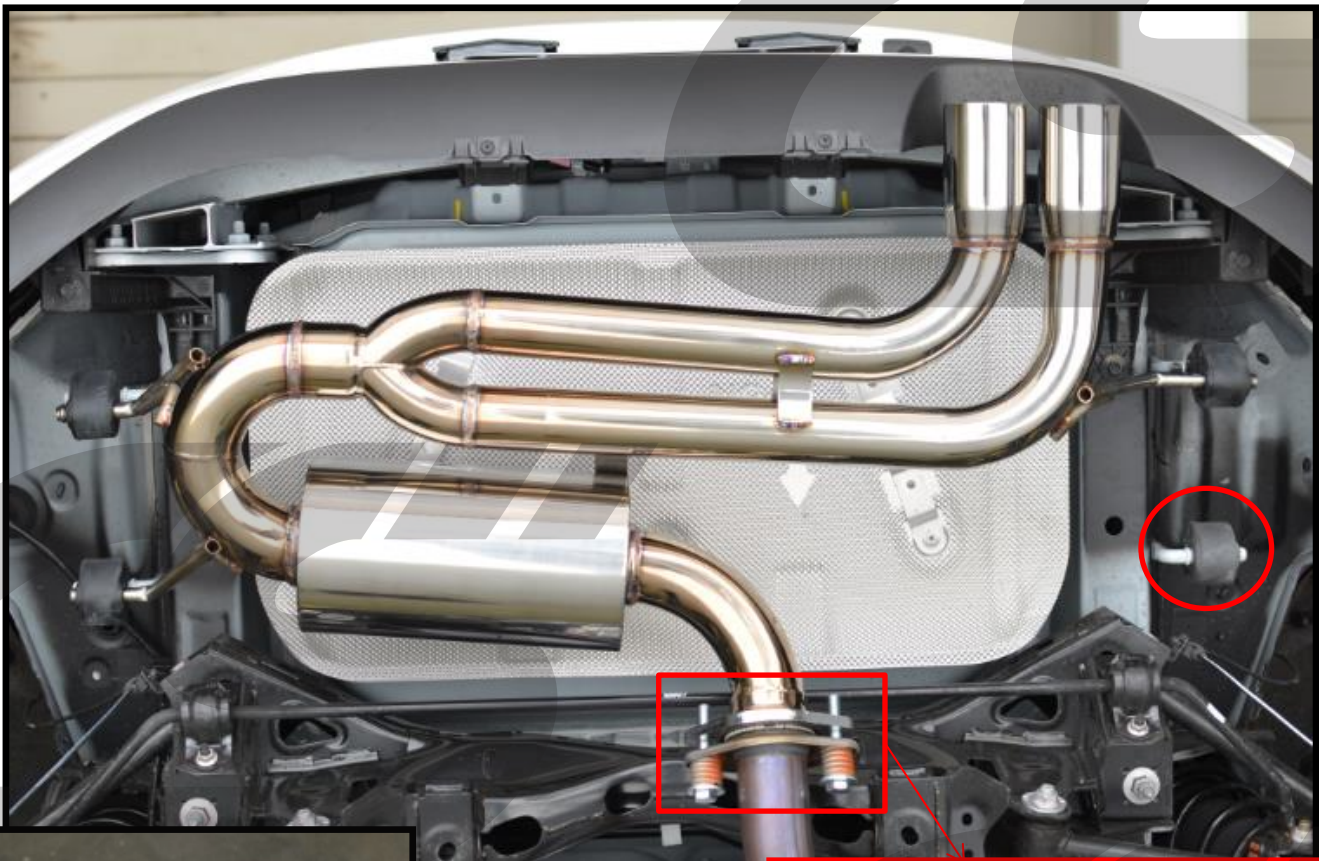


Figure 2a



Figure 2b

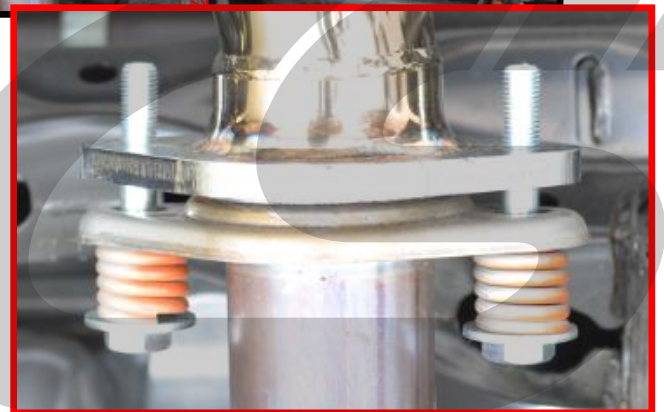


Figure 2c

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## What's Next:

### **CORKSPORT Adjustable Swaybars**

Track tested and racer approved, the CorkSport Front and Rear Swaybars are a great compliment to the daily driver and track rat. Get your body roll under control with the CorkSport 3-Way Adjustable Swaybars.



### **CorkSport Cold Air Intake System**

Reduce intake flow restrictions and maintain cold intake air temperatures with the CorkSport Cold Air Intake. The CorkSport CAI utilized a high flow dry element filter, billet aluminum MAF and custom designed cold air box to give you a clean high flowing intake system. This awesome CorkSport product is still in development; look for it in the near future!

### **CorkSport Lowering Springs**

Track tested and racer approved, the CorkSport Lowering Springs are a perfect match for your daily driven MX-5. The CorkSport Lowering Springs give the MX-5 an aggressive look without sacrificing functionality or ride quality.

