FE1-6-101 11th Generation Si Exhaust

11th Generation SI 27WON Exhaust

Written By: Josh Rivas



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INTRODUCTION

In this installation guide we have provided step by step instructions to remove the OEM exhaust and install the 27WON Performance Exhaust.

Advisory:

- Working under the vehicle requires a safe and sturdy location for the vehicle to sit on jackstands.
- The exhaust piping will be hot after recent vehicle operation. Allow the vehicle to cool or use a fan to cool the exhaust piping before working on the vehicle.

TOOLS:

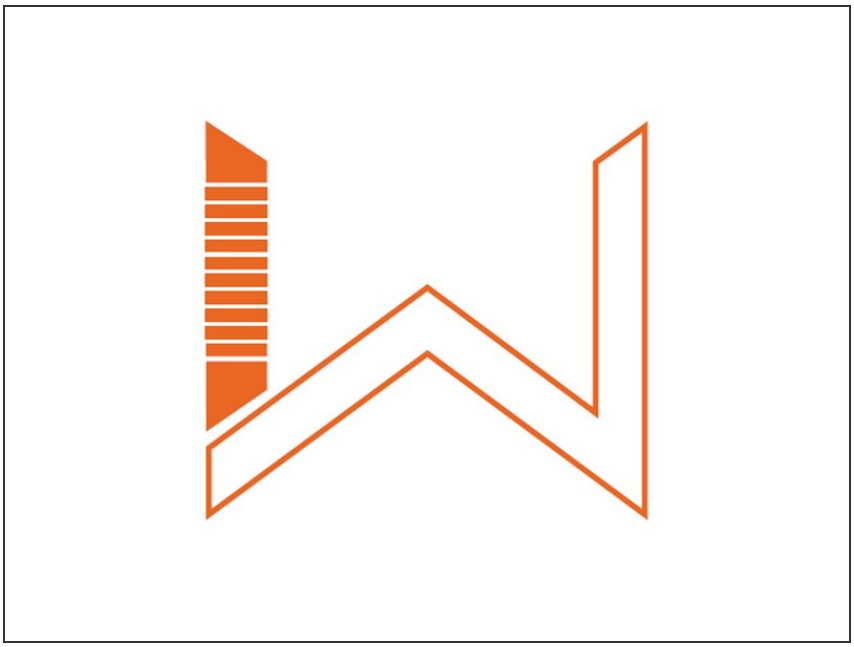
- 3/8" Ratchet (1)
- 10mm Socket - Deep (1)
- 12mm Socket - Deep (1)
- 14mm Socket - Deep (1)
- 15mm Socket-Deep (1)
- 17mm Socket - Deep (1)
- 17mm Wrench (1)
- 3/8" Torque Wrench (1)
- Flathead Screwdriver (1)
- Phillips Screwdriver (1)
- Tongue and Groove Adjustable Pliers (1)
- Optional: Exhaust Pliers (1)
- Bungee Cord (1)
- Hydraulic Jack (1)
- Jack Stand (4)
- Cleaner Spray or Equivalent Lubricant (1)

PARTS:

- FE1-6-101 Driver Side Muffler Section (1)
- FE1-6-101 Passenger Side Muffler Section (1)
- FE1-6-101 Rearward Mid-Section (1)
- FE1-6-101 Forward Mid-Section (1)
- Tri-Bolt Gasket (4)
- M10x1.50x35mm Assembled Bolt (9)
- Step Nut - M10x1.25 (3)

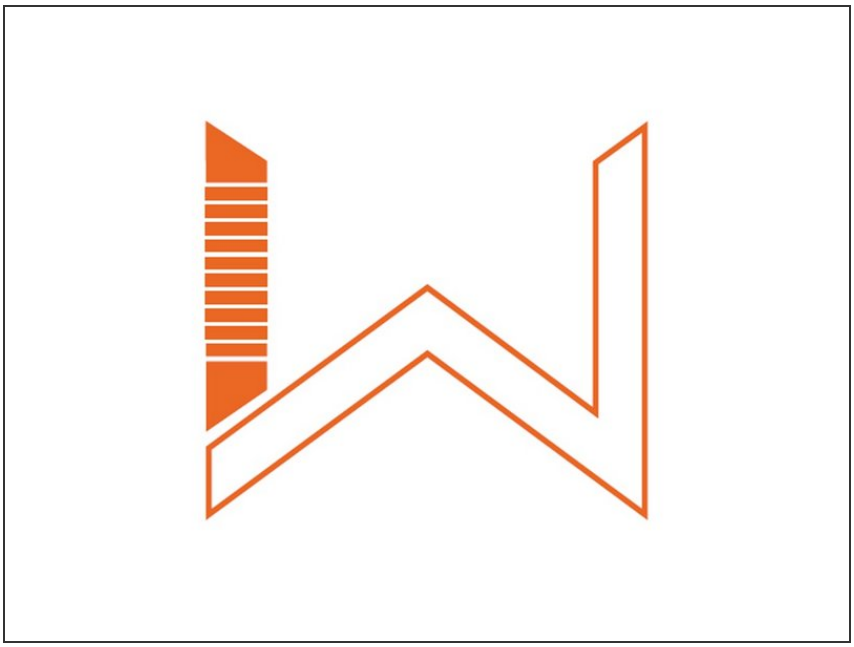
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Step 1 — Getting Started



- First and foremost; **THANK YOU** for becoming a part of the 27WON Family. We hope to **REDEFINE** your experience of the aftermarket with the highest level Parts, Customer Service, Packaging, & Support
- These instructions were written with a 2022 Civic Si

Step 2 — Jack up Your Ride

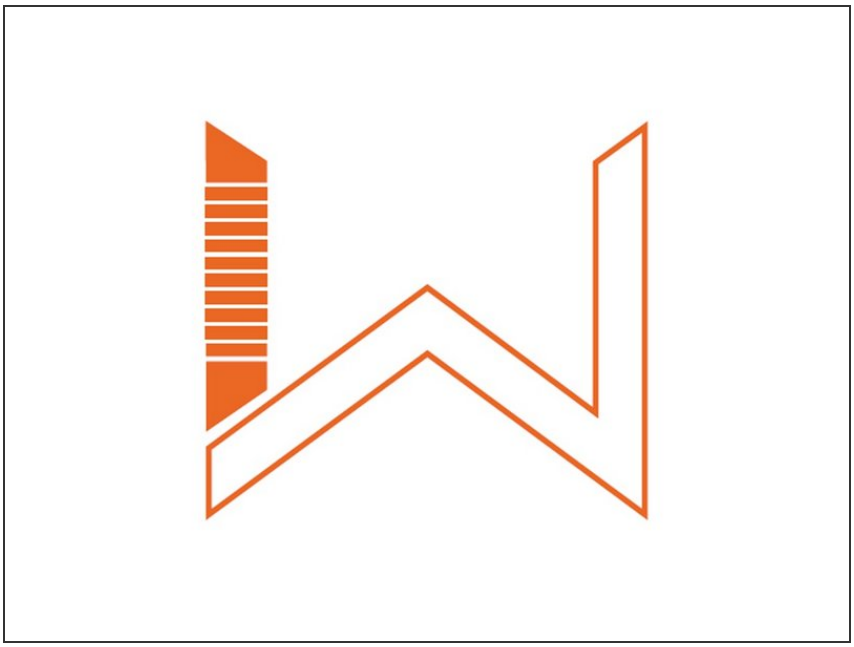


- Jack up your 11th Generation Si and place your jack stands in the appropriate mounting spots
  - ⓘ You can find this in your owners manual

⚠ Make sure you have supported your car properly. If done improperly, this could lead to serious injury

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Step 3 — Protect Your Exhaust During Installation



- The following instructions are shown with no bubble wrap or cardboard for clarity of the installation process
- We recommend leaving as much protective bubble wrap/cardboard on the exhaust as possible during install to protect against scratches and dings during the process
- Cut holes in the bubble wrap to expose the flanges, hanger rods, and fastening locations

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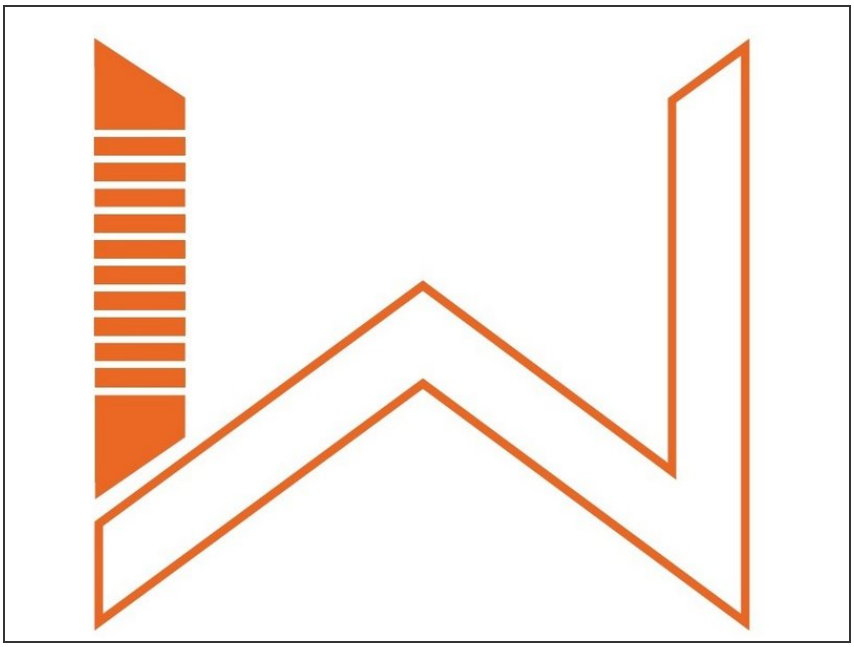
Step 4 — Use Our Handy Garage Banner or Floor Mat



- The 27WON packaging is not only designed to get your performance parts to your doorstep safely, but to also provide you with an awesome garage banner and/or comfy cardboard mat to lay on under your car for installation
  - You can cut out the banner as shown with the orange square
  - Or you can use the entire unfolded box as a mat to lay under your vehicle

⚠ Remove the staples from the box as they don't feel great on your backside...

Step 5 — Exhaust Variations



ⓘ This exhaust can be purchased in three varieties. Front pipe back, with Front pipe, and as a Turbo back system which also includes the downpipe.

ⓘ This guide describes the process for exhaust installation with and without Front Pipe

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Step 6 — Optional Downpipe Installation



- If you purchased your exhaust with the turbo back option then now is a great time to proceed with installation of the downpipe

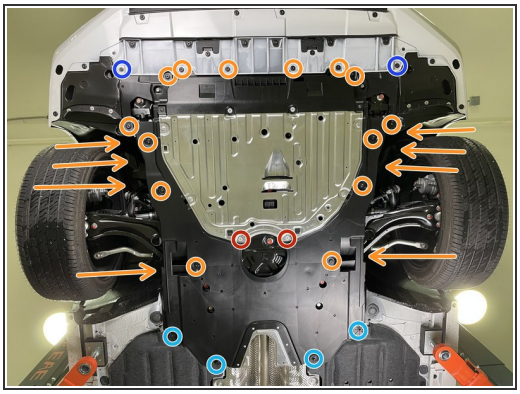
ⓘ There is some overlap with these instructions, particularly around removal of the skid tray

ⓘ We think the easiest path is to come back to these instructions at step 19 of the downpipe instructions and resume from this step

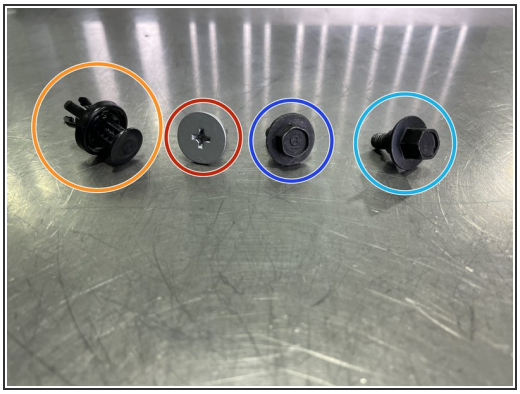
- L15-6-209-15 11th Gen Downpipe install instructions

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Step 7 — Remove the Skid Tray Part A





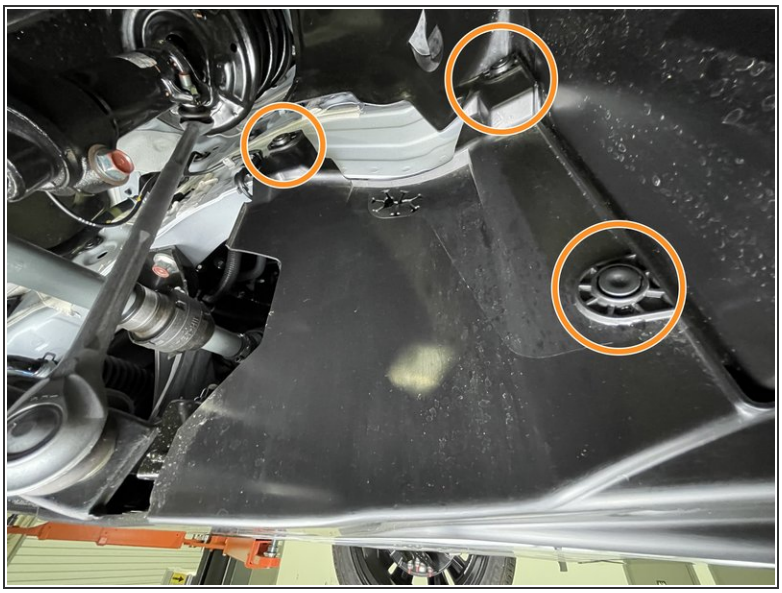


- Locate the Skidtray
- We recommend using a prying tool like the one shown by the green square
- Use a flathead screwdriver or a prying tool to remove the fourteen (14) plastic push-clips circled in orange. **Orange arrows identify the eight (8) additional push-clips described in the next step that are removed last**
- Use a #2 Philips head screw driver to remove the two (2) Philips pan head screws shown in red circles
- Use a 10mm socket and wrench to remove the two (2) short head shoulder bolts shown in dark blue circles
- Use a 10mm socket & ratchet to remove the four (4) tall head shoulder bolts shown in light blue circles

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Step 8 — Remove the Skid Tray - Part 2

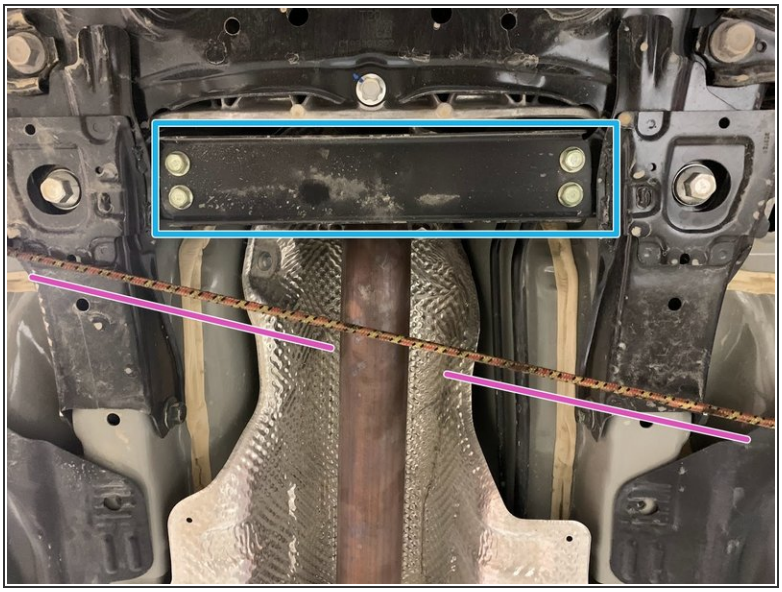


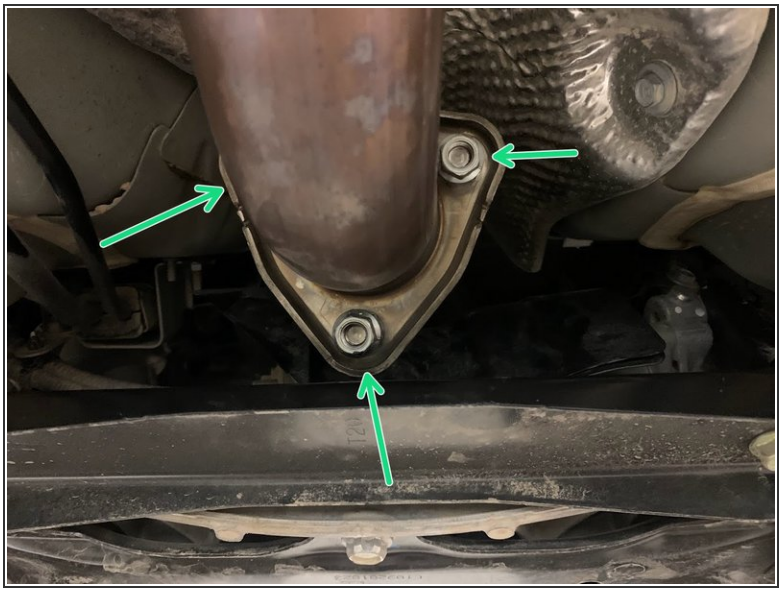


- Use a large flat head screw driver or prying tool to remove the four (4) push-clips from **each** front wheel well

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Step 9 — Unbolt OE Exhaust from Front Pipe



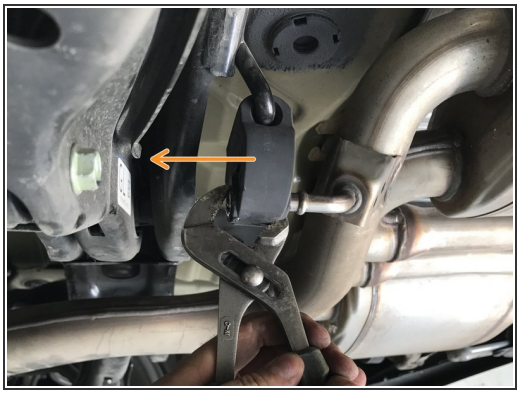


- Remove (4) bolts shown for easier access to flanges
- Support where the exhaust meets the front pipe with a bungee cord
- Using a 14mm socket, remove the (3) bolts shown

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Step 10 — Tips for Removing Exhaust Hangers



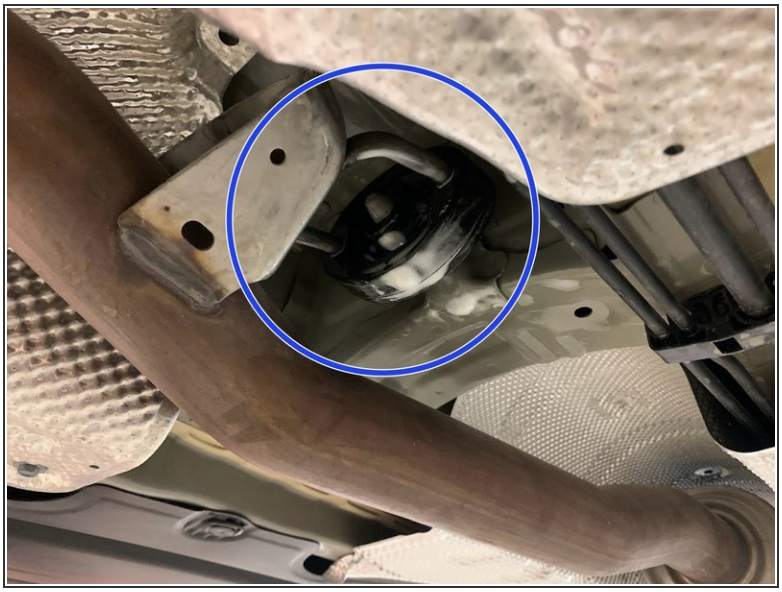




- We'll show each hanger in the next steps. Hangers can be very difficult to get off. Here are a few ways to approach this
- Spray hanger as shown with lubricant. We like glass cleaner
- Either, using Tongue & Groove Pliers and pry the metal hanger from the rubber bushing/hanger
- Or, the easiest way is to use a exhaust pliers. You can get these on Amazon for around $20

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Step 11 — Remove the Mid-Pipe Hanger





- Using a spray cleaner, lubricate the front hangers and rubber support
- Use tongue & groove pliers to press the rod out of the rubber hanger. Remove the hangers of the exhaust from the rubber supports as shown

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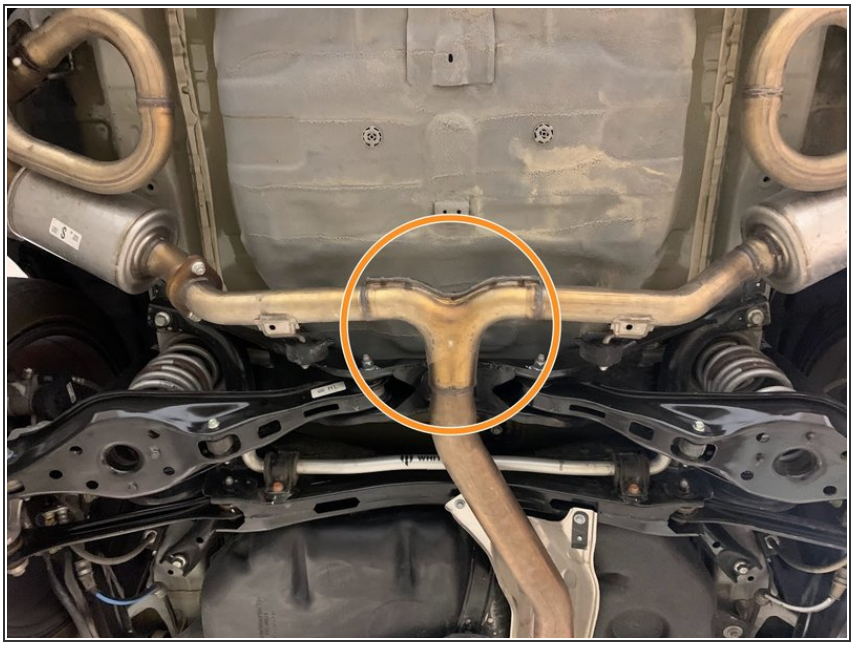
Step 12 — Remove Both Exhaust Tip Supports





- ⓘ Shown is the passenger side rear hanger, repeat this for the driver side
- Using a spray cleaner, lubricate the rear hangers and rubber supports
- Use tongue & groove pliers to press the rod out of the rubber hanger, remove the hangers of the exhaust from the rubber supports as shown

Step 13 — Support the Exhaust



- Using a transmission jack, floor jack, or a friend support the OE exhaust in the marked area

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Step 14 — Remove Both Rear Mid-Pipe Hanger Supports



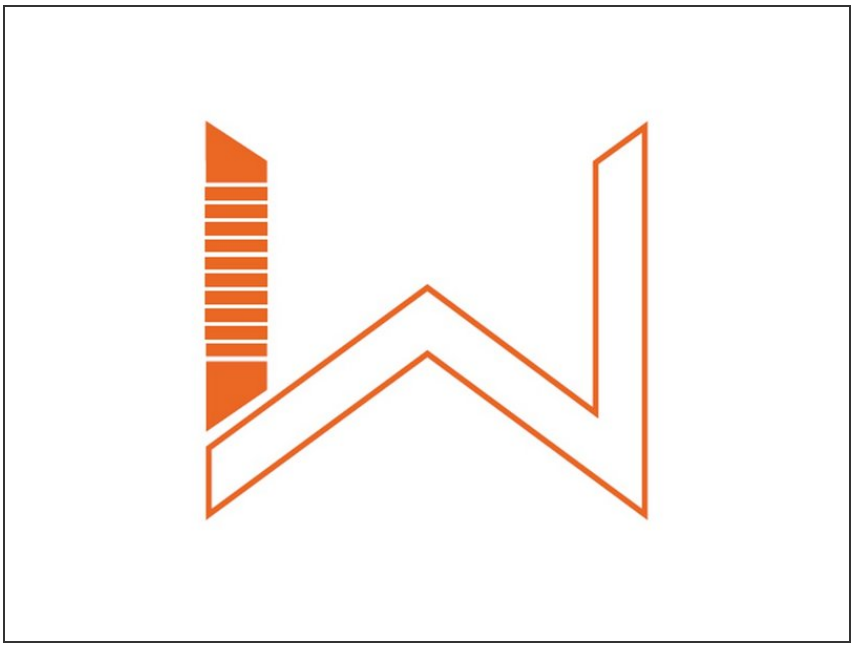


- Using a spray cleaner, lubricate the remaining rear hangers and rubber supports
- Use tongue & groove pliers to press the rod out of the rubber hanger, remove the hangers of the exhaust from the rubber supports as shown

⚠ If the exhaust is unsupported it will fall and possibly become damaged. If not done yet, make sure you support the OE exhaust

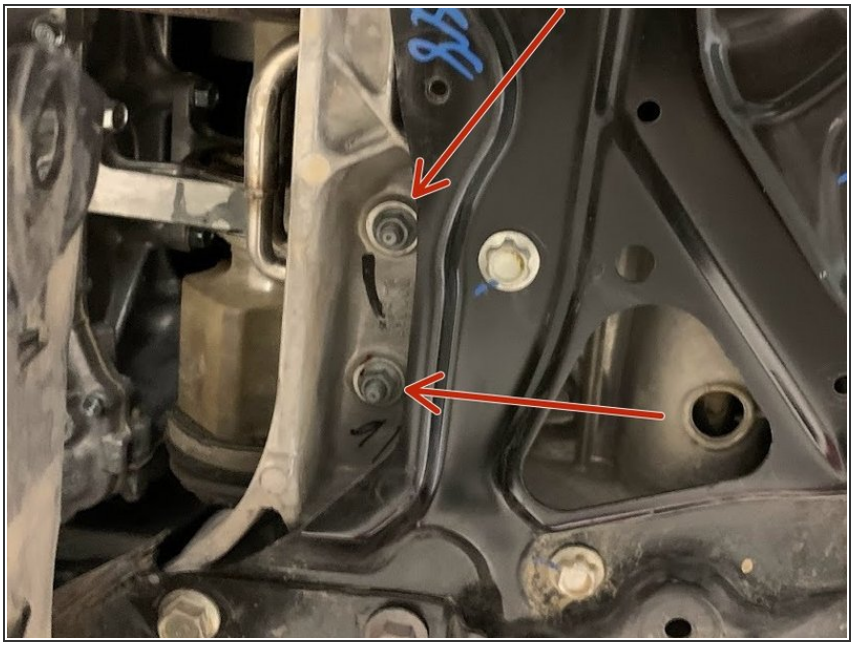
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Step 15 — Remove the OE Exhaust



- With the exhaust unbolted and removed from the hanger supports, remove from the car and set aside
- If you did not buy the exhaust with a Front pipe, skip to step 23 now

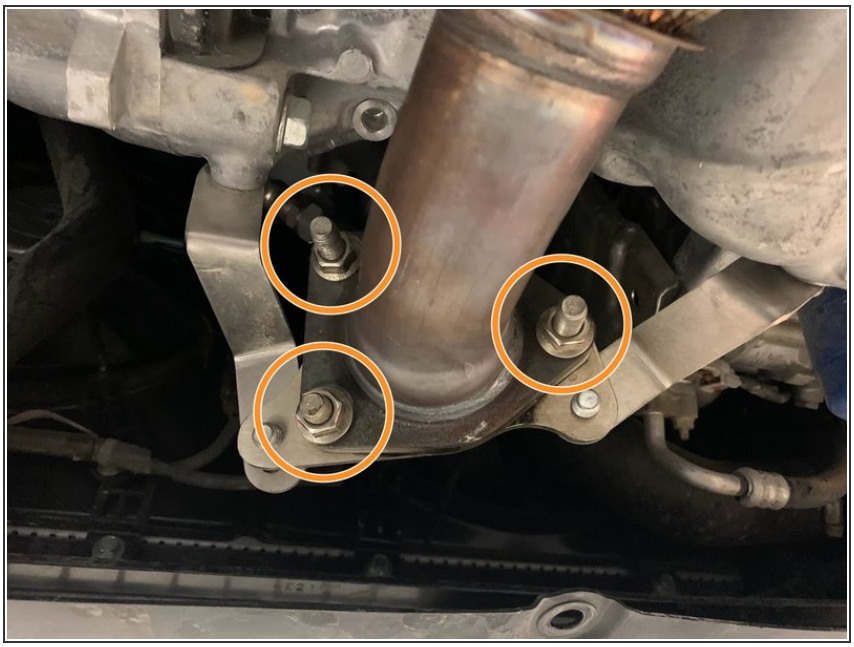
Step 16 — Loosen Front Pipe Hanger Support



- Locate the front pipe support
- Using a 12mm socket, remove the (2) bolts holding the front pipe support

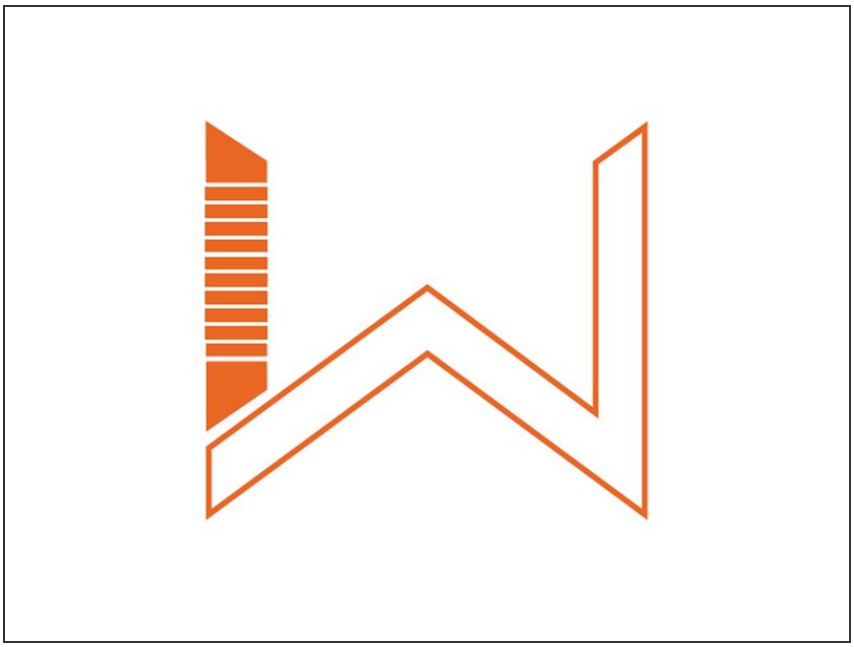
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Step 17 — Unbolt the Front Pipe From the Down Pipe



- Shown is the 27WON Down Pipe. OE looks somewhat different
- If you have the 27WON Down Pipe installed, use a 15mm socket to remove the (3) nuts holding the front pipe to the down pipe
- If you have the OE Down Pipe installed, use a 14mm socket to remove the (3) nuts holding the front pipe to the down pipe

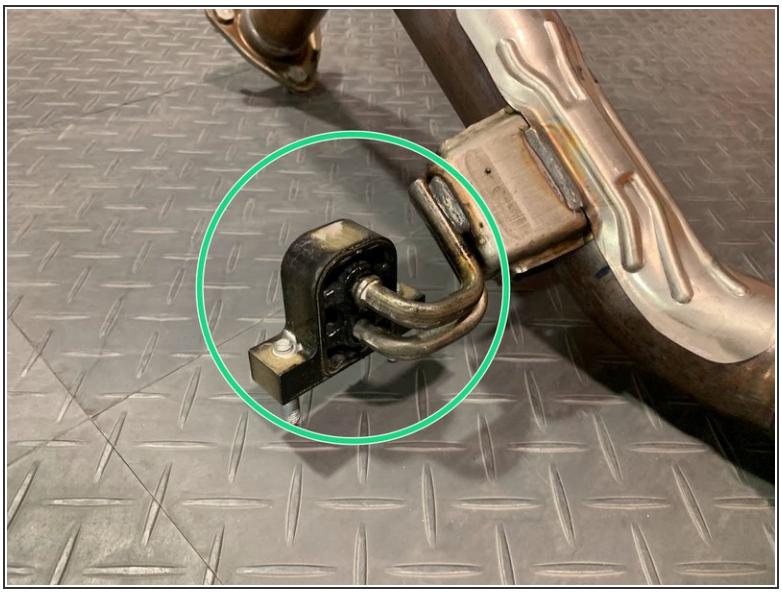
Step 18 — Remove the Front Pipe

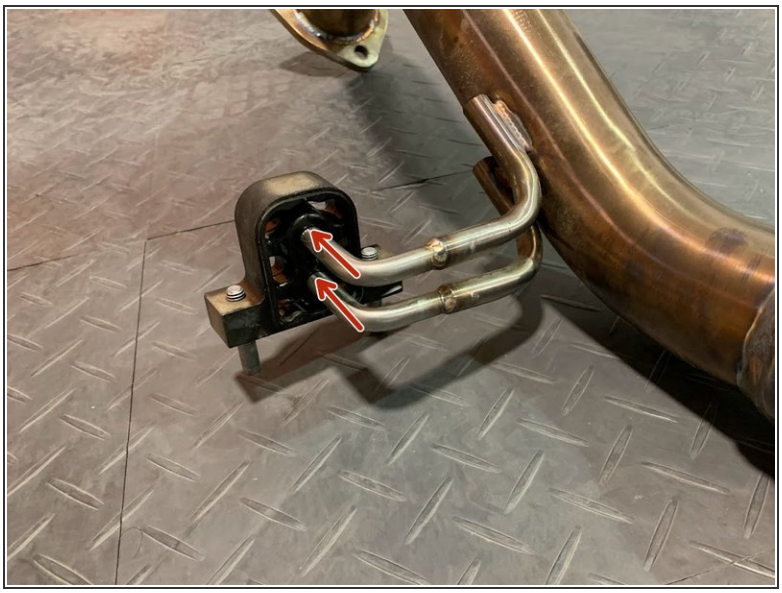


- With the front pipe unbolted, remove the front pipe from the car and set aside

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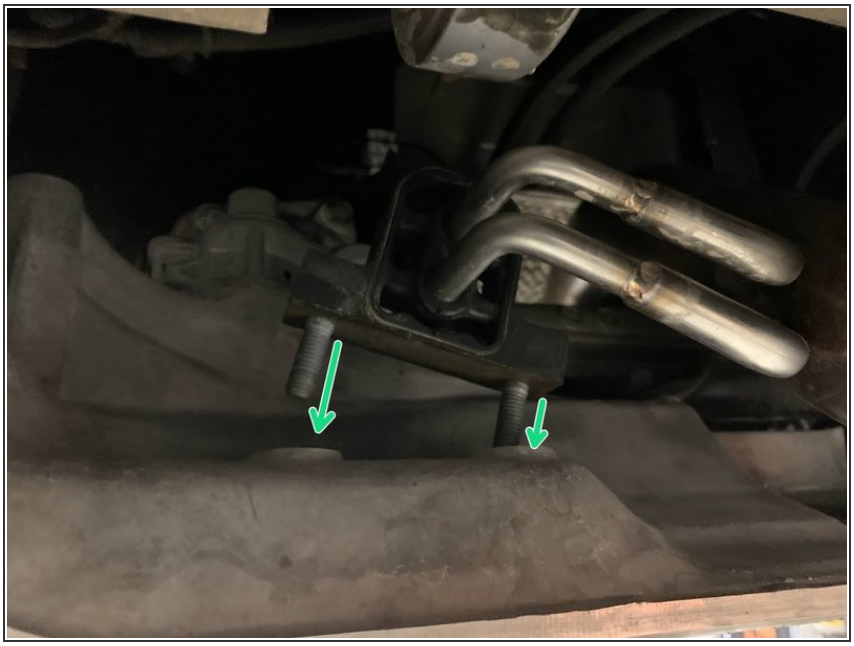
Step 19 — Swap Front Pipe Hanger





- Using a spray cleaner, lubricate the front pipe hanger and remove it from the OE front pipe using a hanger removal tool
- Reinstall the hanger on the 27WON front pipe

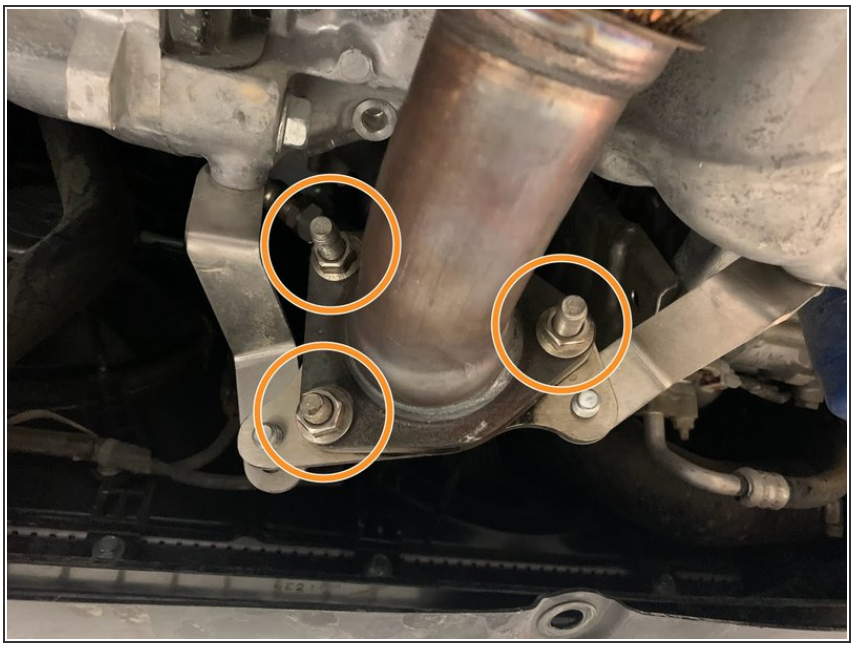
Step 20 — Install the 27WON Front Pipe



- Guide the 27WON front pipe into the car
- Guide the front pipe support studs back into their location

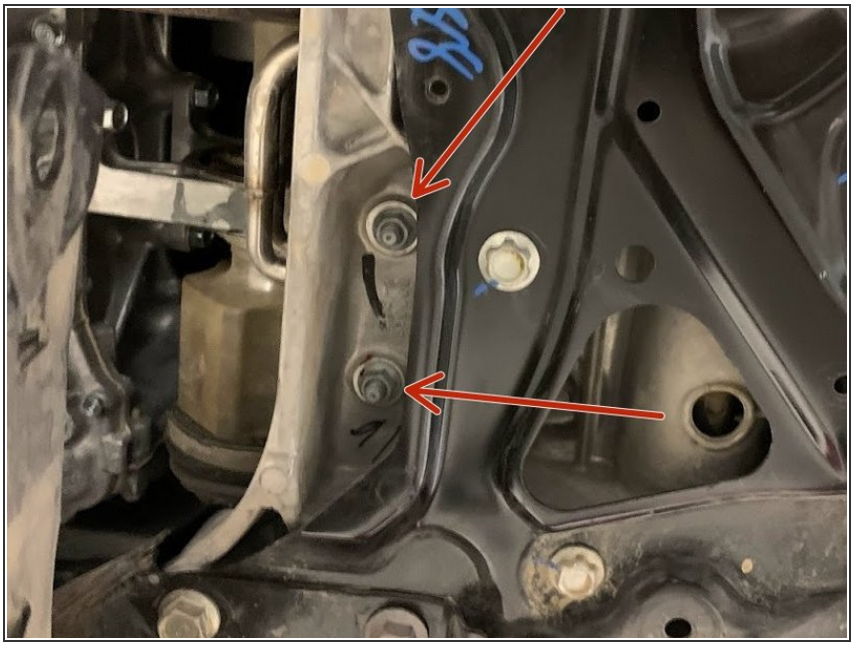
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Step 21 — Bolt the Front Pipe to the Down Pipe



- ⓘ Shown is the 27WON Down Pipe. OE looks somewhat different
- If you have the 27WON Down Pipe installed, use a 15mm socket to reinstall the (3) nuts that hold the front pipe to the down pipe
- If you have the OE Down Pipe installed, use a 14mm socket to remove the (3) nuts that hold the front pipe to the down pipe

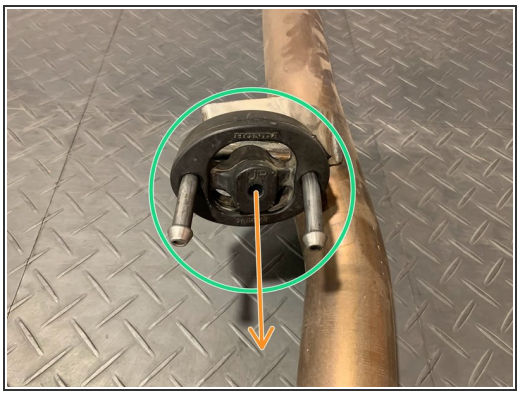
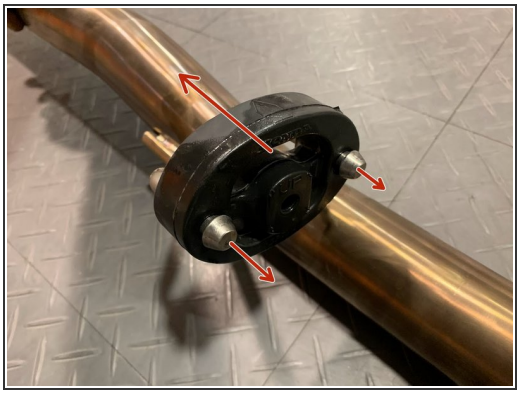
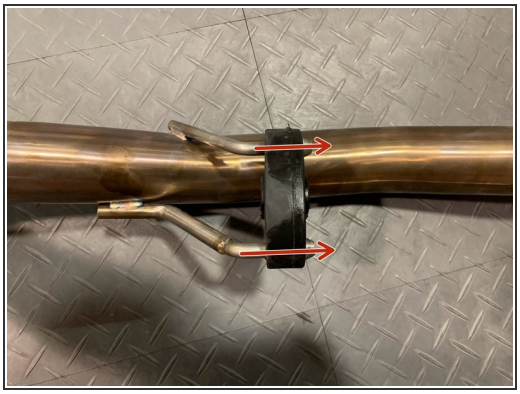
Step 22 — Bolt Down the Front Pipe Hanger Support



- Using a 12mm socket, reinstall the (2) bolts to secure the front pipe support to the chassis

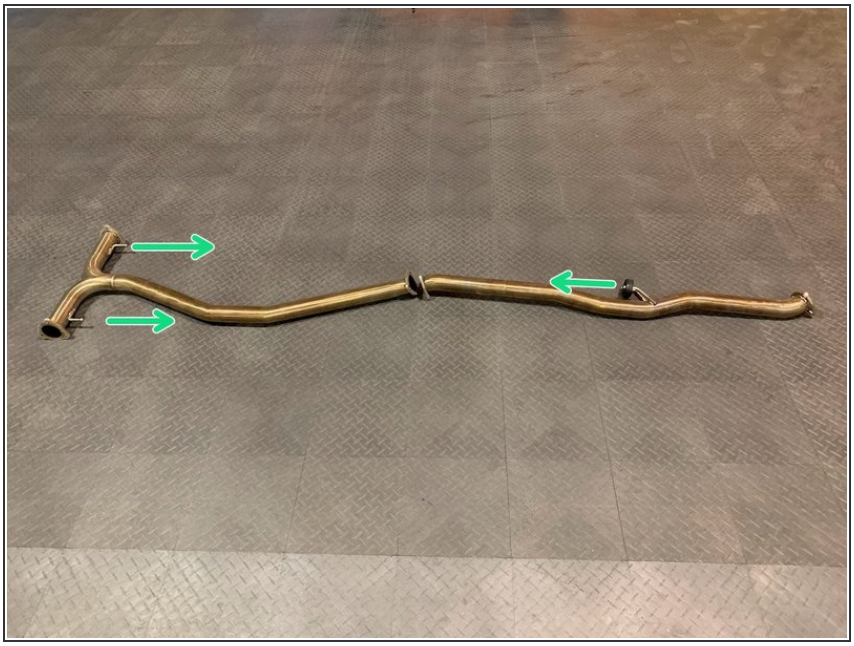
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Step 23 — Swap Forward Mid-pipe Hanger

- Using a spray cleaner, lubricate the front hanger and rubber support as shown
- Use tongue & groove pliers to press the rod out of the rubber hanger, remove the rubber support off the OE exhaust hangers as shown
- Reinstall the rubber support on the 27WON forward mid-pipe hangers

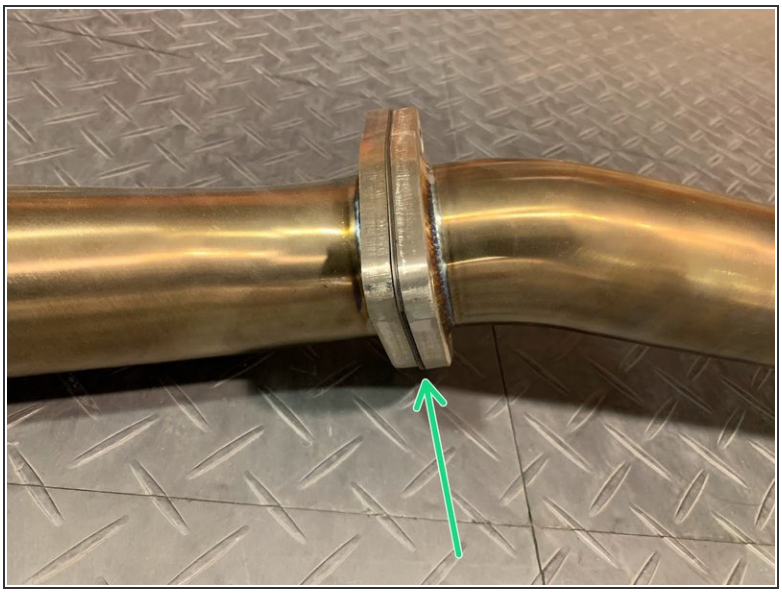
Step 24 — Align the Forward Mid-Pipe and Rear Mid-Pipe

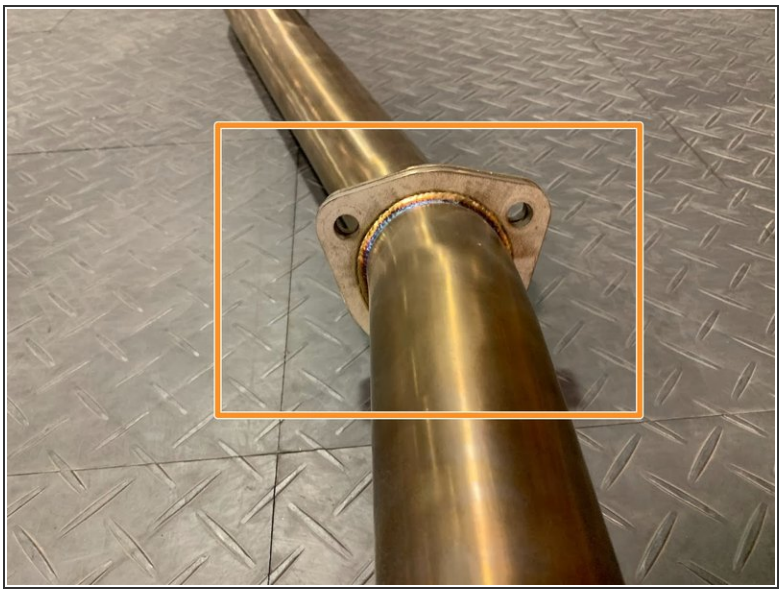


- ⓘ This could be done on the car as well but the install process is different from what we describe here
- Align the two mid-pipes as shown. Their orientation is critical for proper exhaust fitment
- Use the hangers for reference

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Step 25 — Connect the Forward Mid-Pipe and Rear Mid-Pipe



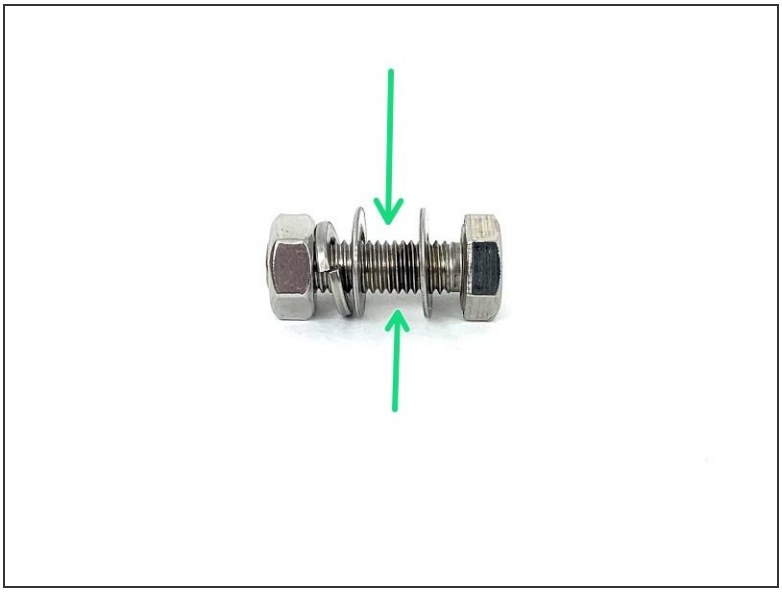


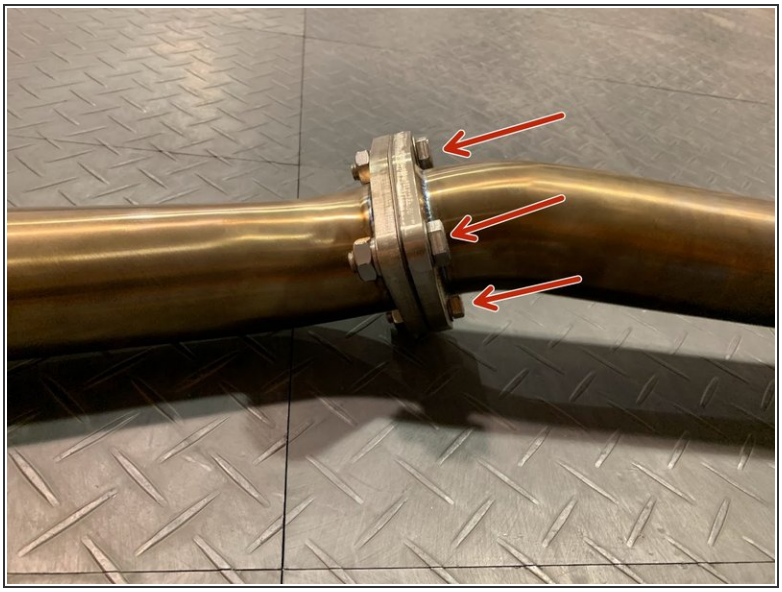
- Insert a provided gasket between the two flanges of the mid-pipes
- Align the flanges as shown

⚠ Perfect alignment of the flanges is recommended. Even 1mm of misalignment can cause a big fitment issue at the rear of the car

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Step 26 — Install Hardware

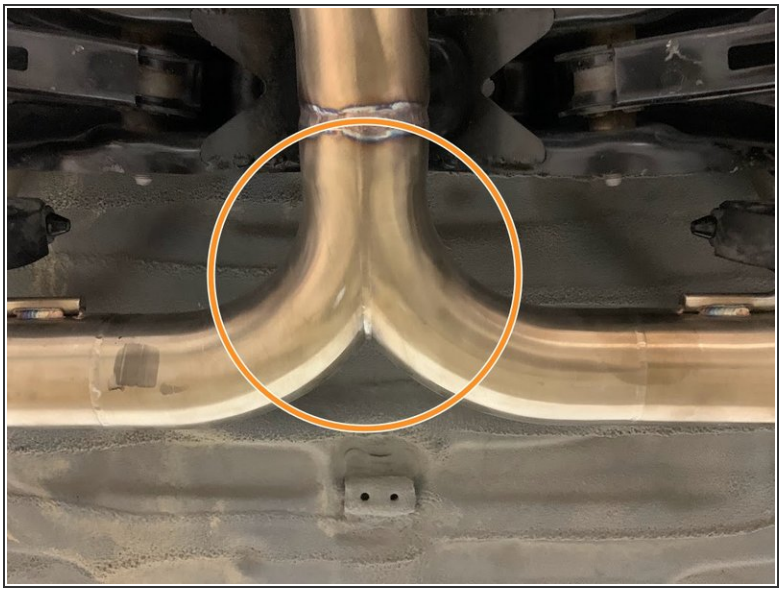


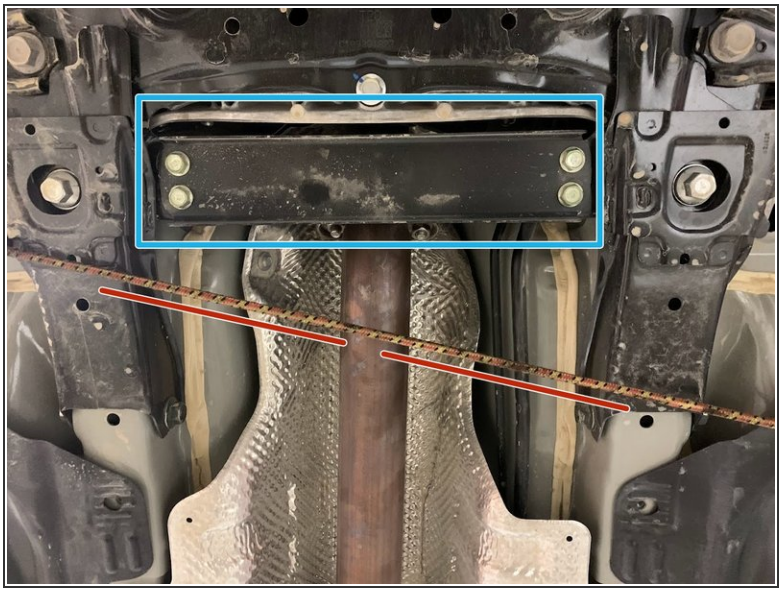


- Make sure the exhaust flanges go where the green arrow is indicating when installing your hardware in all flanges in your 27WON exhaust system
- Install 3 sets of hardware as shown using a 17mm socket and 17mm wrench. Hand tighten the hardware for now

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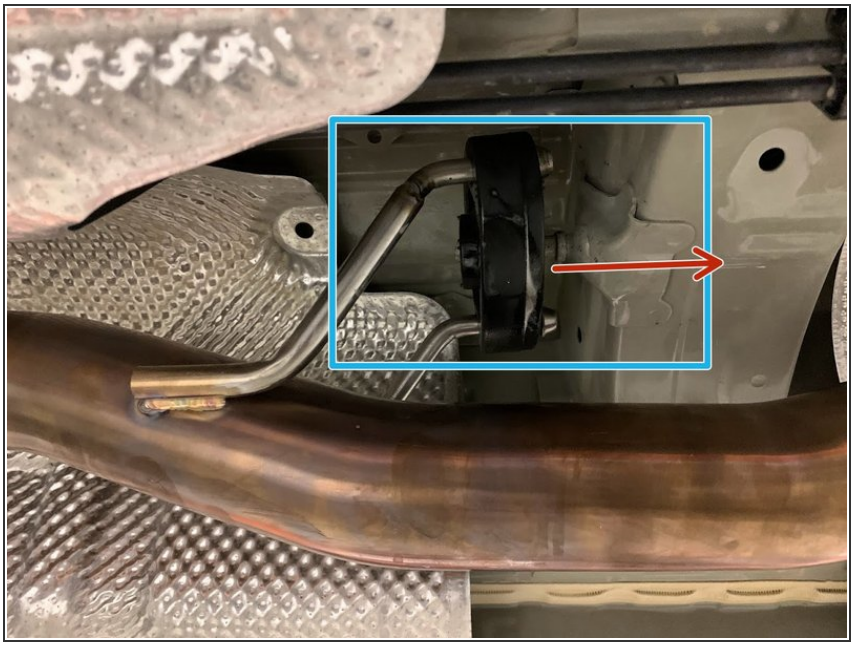
Step 27 — Position Assembled Mid-pipes on Car





- Using the same location as before, support the back of your 27WON exhaust with a friend or jack
- Support the front section with a bungee chord
- Reinstall brace later

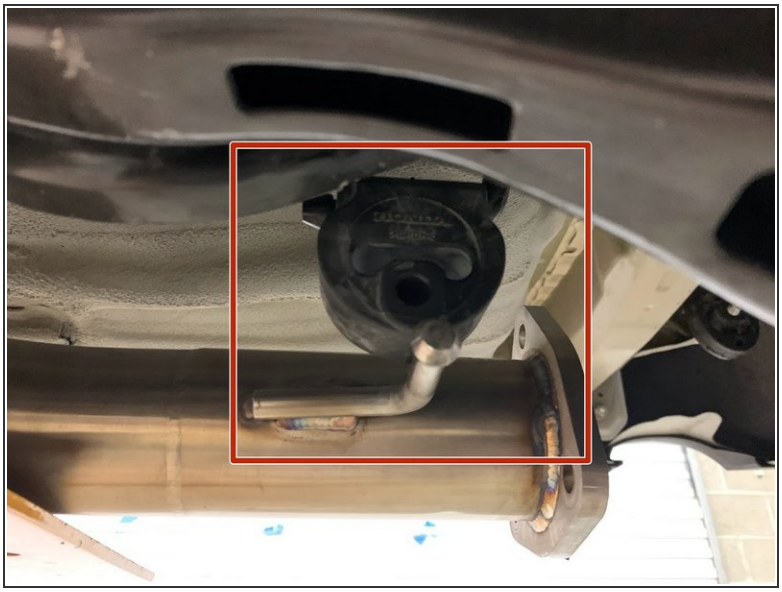
Step 28 — Reconnect Front Hangers



- Using a spray cleaner, lubricate the rubber hanger
- Reinsert the front hanger to the chassis hanger as shown

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Step 29 — Reconnect Both Rear Mid-pipe Hangers

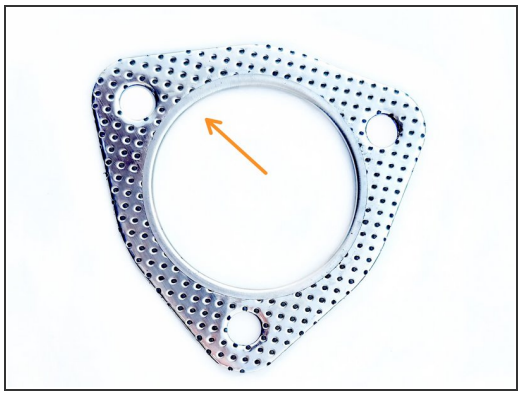


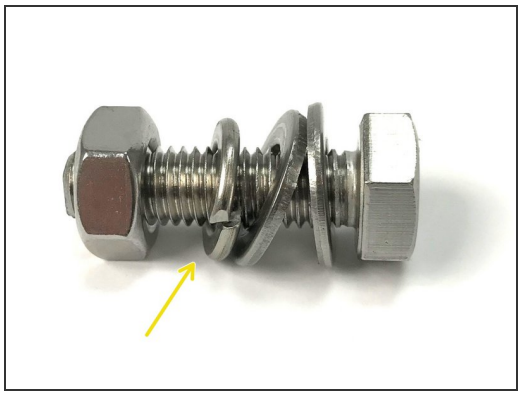


- Using a spray cleaner, lubricate the hanger support
- Reconnect the rubber hanger to the exhaust hanger
- Repeat this step for the other hanger on the rear mid-pipe

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Step 30 — Gather Parts to Fasten Mid-Section to 27WON Front Pipe



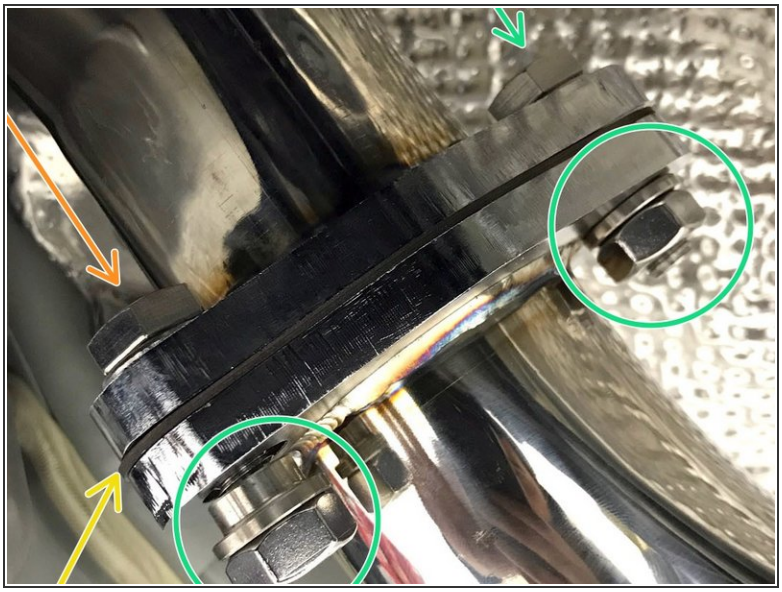


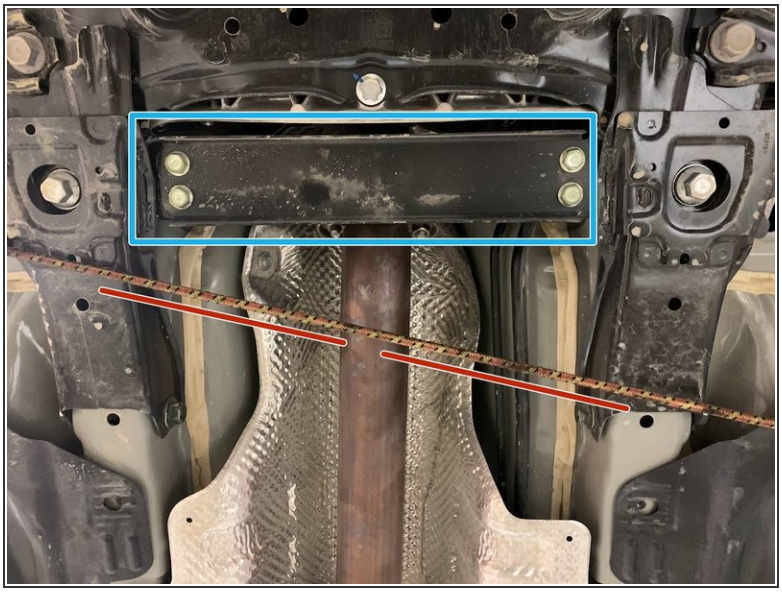


- Skip to step 32 if you did not buy the optional front pipe
- Locate a provided "tri-bolt" gasket for front-pipe installation
- Locate QTY=3 provided 35mm length assembled M10 bolts
- Locate QTY=3 provided step bushings

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Step 31 — Connect 27WON Front-Pipe to 27WON Exhaust





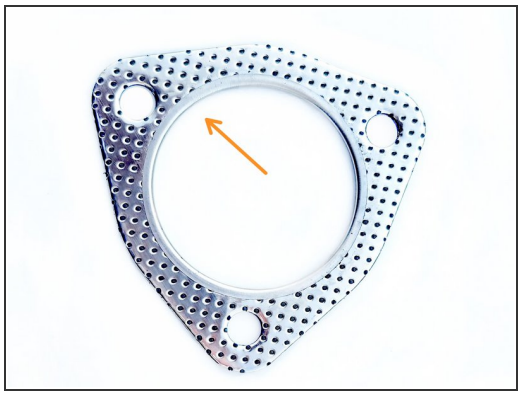
⚠ Perfect alignment of the flanges is recommended. Even 1mm of misalignment can cause a big fitment issue at the rear of the car

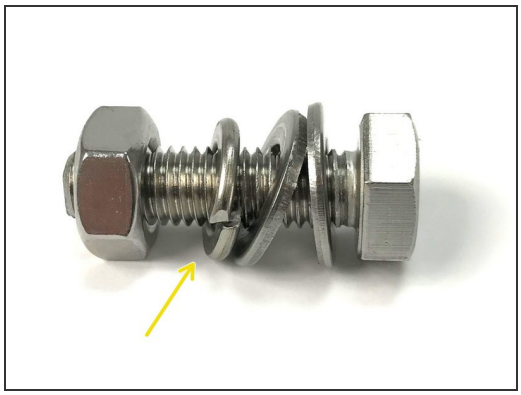
- Place a provide tri-bolt gasket between the flanges
- Using the 35mm length M10 bolts, insert the bolts through the front-pipe flange first
- Install the provided step washers as shown
  - ⚠ When using the step bushings, **DO NOT** use the flat washer and split lock washer
  - ⚠ It is important that the provided step bushings are used with the 27WON Front-Pipe Back Exhaust to properly align the flanges
- While hand tightening the nuts, verify that the step washers inserting into the flange correctly
- Reconnect (4) bolts shown

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Step 32 — Gather Parts to Fasten Mid-Section to OE Front Pipe





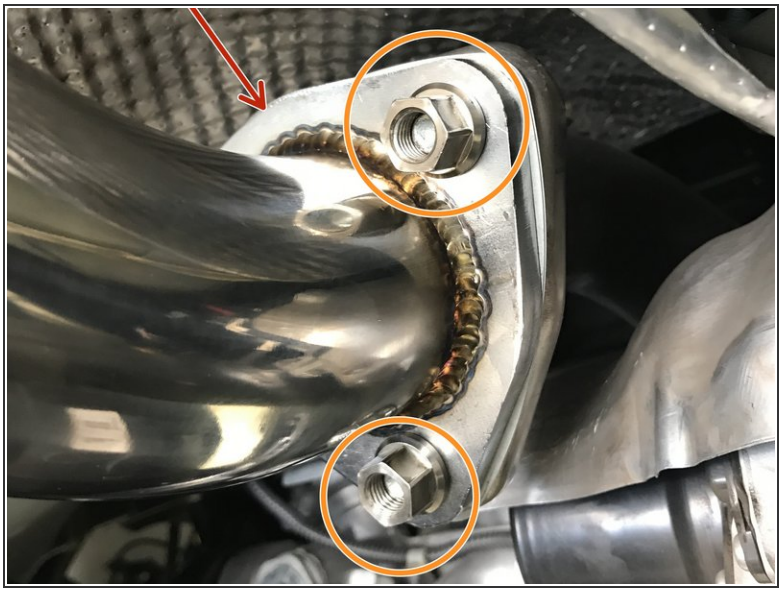


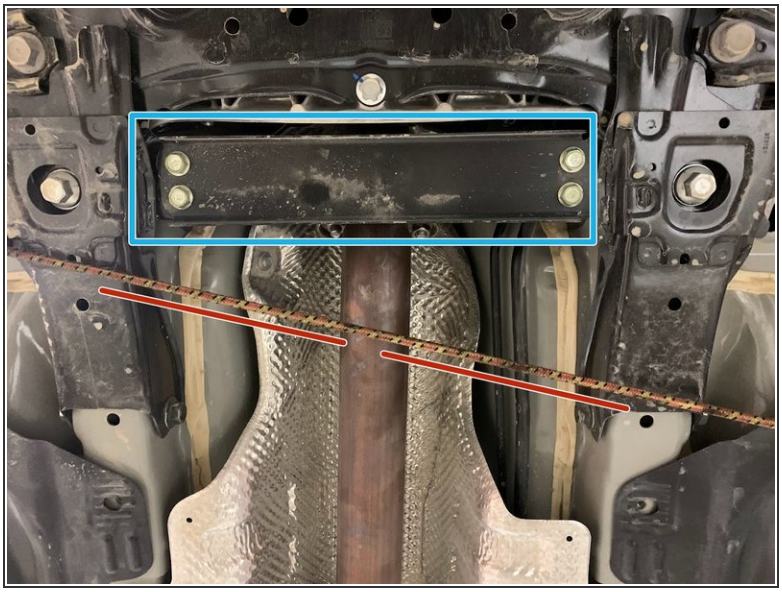
ⓘ If you purchased a 27WON front pipe then skip to step 34

- Locate QTY=3 provided step nuts
- Locate QTY=1 provided tri-bolt gaskets
- Locate QTY=3 provided 35mm length M10 bolts

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Step 33 — Connect OEM Front-Pipe to 27WON Exhaust





⚠ Perfect alignment of the flanges is recommended. Even 1mm of misalignment can cause a big fitment issue at the rear of the car

- Install the provided tri-bolt gasket onto the OE front-pipe
- Align the studs through the flange then hand tighten the step nuts
- Reinstall (4) bolts shown

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Step 34 — Hang Muffler Sections





⚠ Use caution not to damage exhaust tips

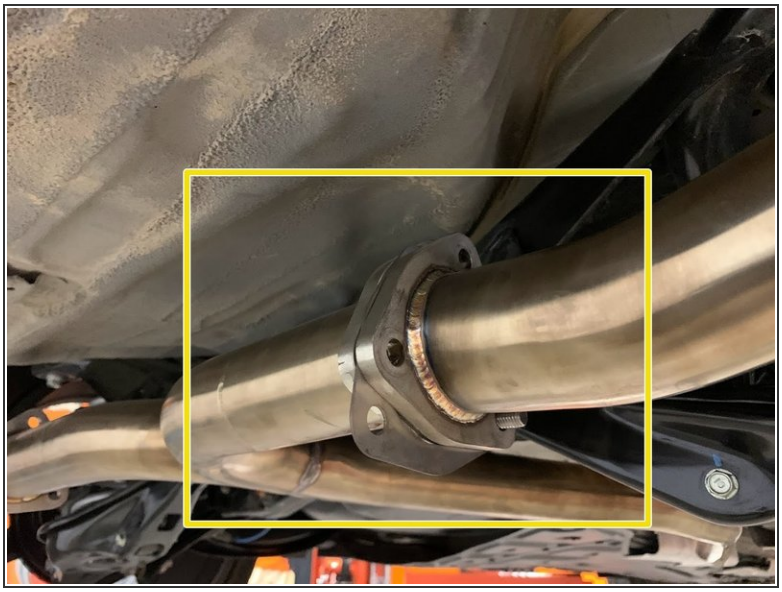
- Using a spray cleaner, lubricate the hanger support for a muffler section
- Reconnect the rubber hanger to the exhaust hanger

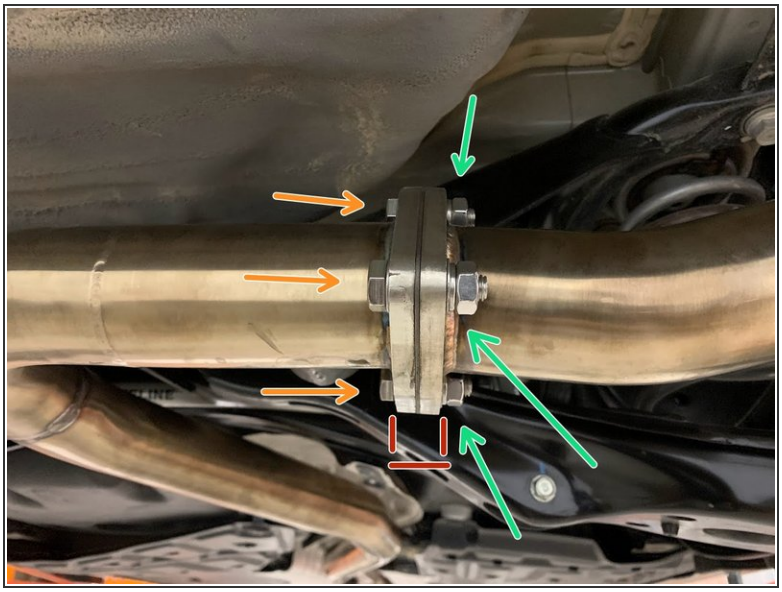
ⓘ It's ok to allow the muffler section to hang on the rubber support while you quickly get the hardware for the flanges

- Repeat this step for the other side

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Step 35 — Bolt Up Muffler Sections





- In one go, insert a provided gasket between the rear mid-pipe flange and the muffler flange then insert a bolt and washer to hold the sections together

⚠ Perfect alignment of the flanges is recommended. Even 1mm of misalignment can cause a big fitment issue at the rear of the car

- Align the gasket and flange properly and insert the other two (2) bolts
- Using the same hardware stack up as before, install the washer, split washer, and nut for each bolt
- Hand tighten the (3) nuts
- Repeat this step on the other side

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Step 36 — Check Exhaust Tips Alignment





- Stand back from the car and verify that the tips are centered and have at least 1/3 inch clearance from the bumper on both sides

ⓘ If the tips are sitting high, there may be a rubber hanger that is upside-down. Verify that all hangers are oriented correctly

- If the tips are not centered, starting from the rear section, loosen the flange bolts and nuts hardware moving down the system and re-align the flanges

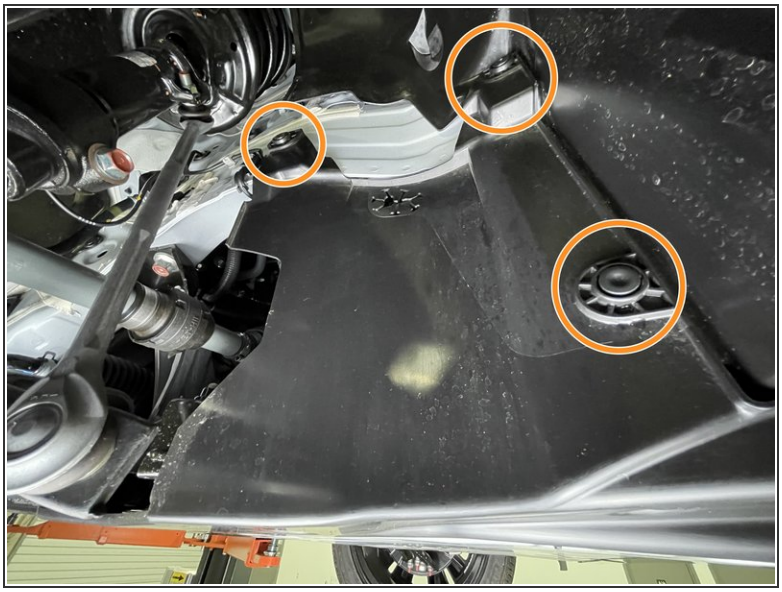
  ⓘ It can be tricky to get all the flanges just so. A very small fitment difference at the front pipe can make a big difference to how the mufflers hang

- Once tips are centered, torque down all hardware to **25~30 ft lbs**
- Check again that exhaust tips are positioned properly

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Step 37 — Reinstall the Skid Plate - Part 1

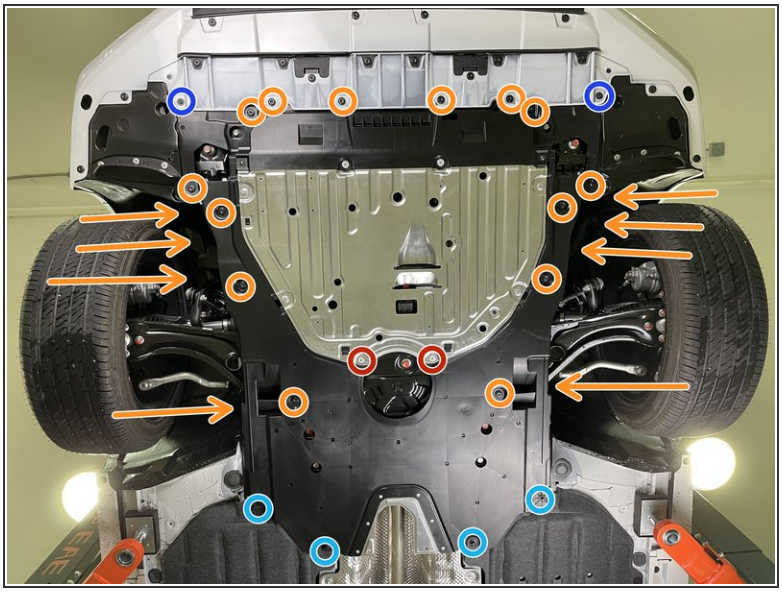


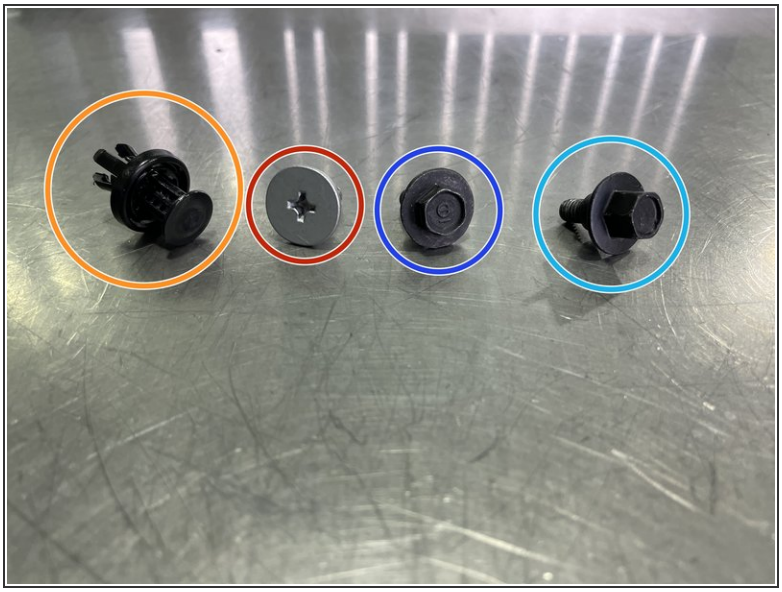


- Reinsert the (4) push pins into the mounting spots as shown
- Repeat this step on the other side

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Step 38 — Reinstall the Skid Plate - Part 2





- Reinstall the fourteen (14) plastic push-clips circled in orange
- Using a Philips head screw driver, reinstall the two (2) Philips pan head screws shown in red circles
- Using a 10mm socket and ratchet, reinstall the two (2) short head shoulder bolts shown in dark blue circles
- Using a 10mm socket & ratchet reinstall the four (4) tall head shoulder bolts shown in light blue circles

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Step 39 — Check for Leaks and Rattles



- Start the vehicle to check for leaks or rattles. If none, then take a spin around the block for further verification. If you do find a leak or rattle, please inspect the exhaust further
  - A leak could be caused by a loose flange bolt, improperly used gasket, or if debris is stuck between the gasket and flange
  - A rattle could be caused by misaligned pipe or a rubber hanger being orientated incorrectly
  - If you have exhausted all investigation then give us a call and we would be happy to help and resolve the issue with you

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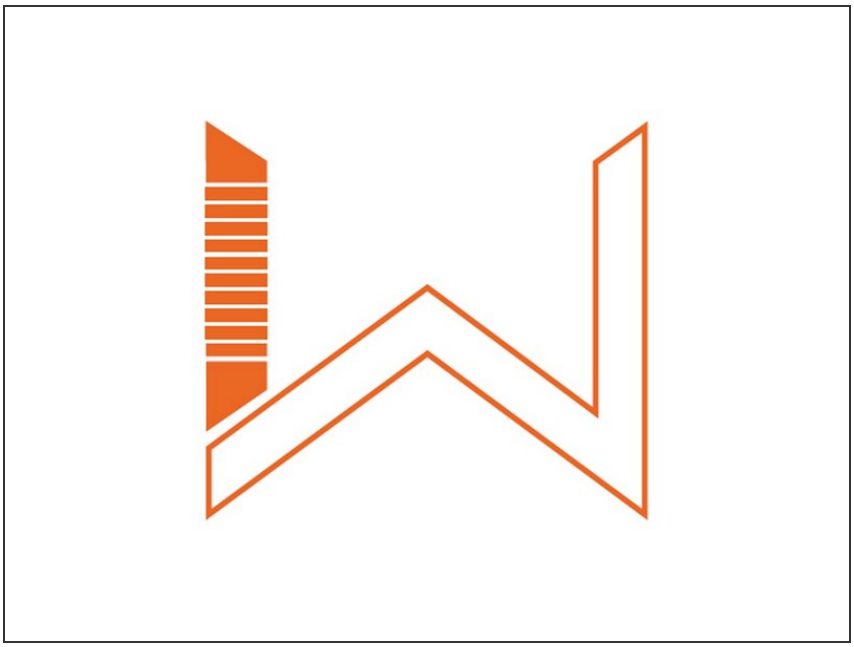
Step 40 — Notes During Break-In



- Exhaust may smoke for the first 30 minutes or so of use. This is normal
- Exhaust sound will settle a bit during the first 100 miles of use. This is normal
- Your Honda has a cold start system which causes louder exhaust for around 15 seconds when you start your car cold

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Step 41 — I Dare You to REDEFINE



- This completes the installation of your 27WON 11th Generation Si Performance Exhaust
- We hope you were impressed with your 27WON experience and love your new exhaust system for years to come. Email us at sales@27won.com or call us at 571-271-0271 with any questions or concerns
- Please leave a review here: https://store.27won.com/2022-civic-si-fr...
- Stay Connected with the latest developments with the 27WON Monthly Newsletter: https://store.27won.com/27won-newsletter...
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