# FE1-6-104 11th Generation L15 Single Exit Exhaust

11th Generation L15 27WON Single Exit Exhaust

Written By: Jacob miller-self





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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:

- FE1-6-104 Muffler Section (1)
- FE1-6-104 Rearward Mid-Section (1)
- FE1-6-101 Forward Mid-Section (1)
- Tri-Bolt Gasket (3)
- M10x1.50x35mm Assembled Bolt (9)
- Step Nut - M10x1.25 Optional (3)
- Step Washer - M10 Optional (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 and 2023 Acura Integra A-Spec

## Step 2 — Jack up Your Ride

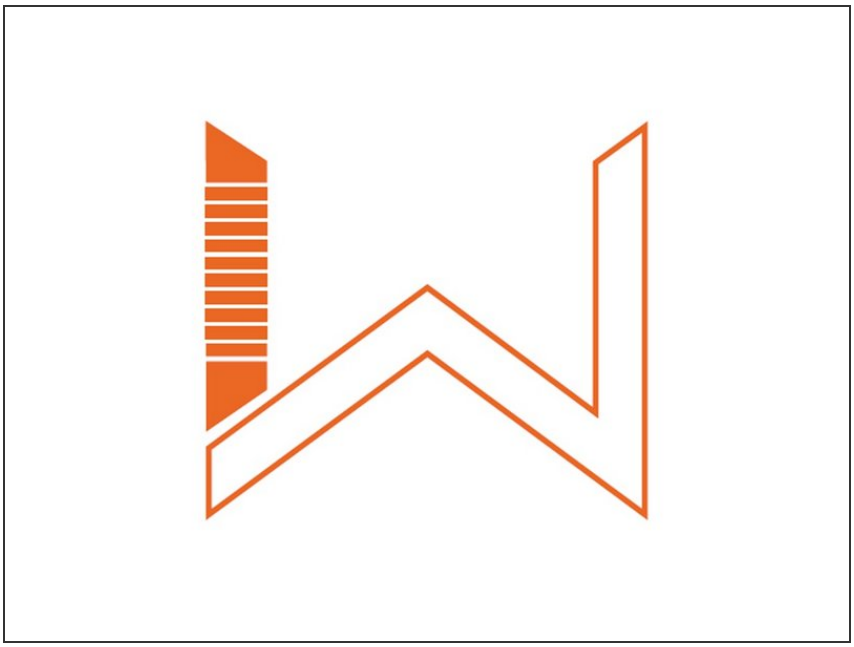


- Jack up your car and place your jack stands in the appropriate mounting spots
  - ⓘ You can find this in your owners manual

⚠ 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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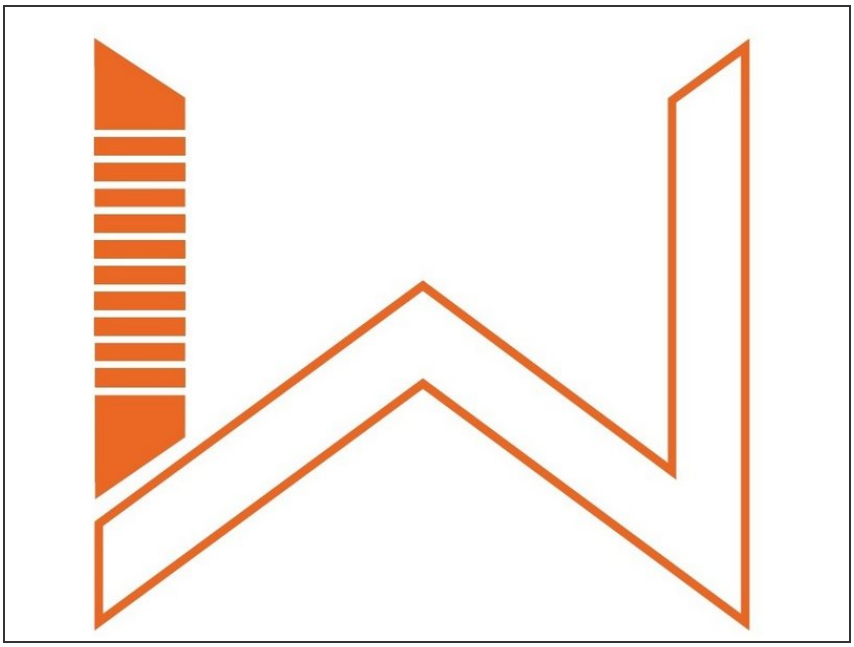
## Step 4 — Use Our Handy Garage Banner or Floor Mat




- 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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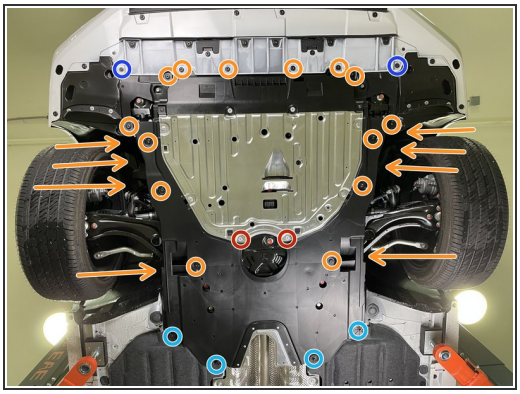
## Step 6 — Optional Downpipe Installation



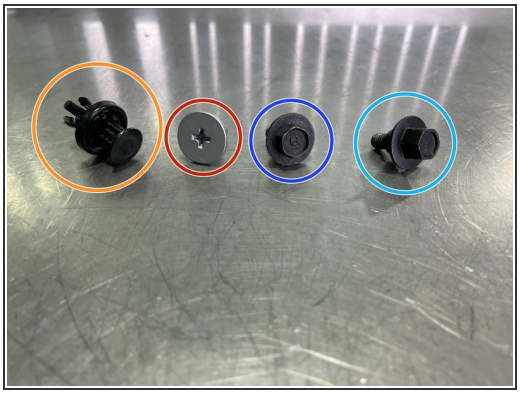
- If you purchased your exhaust with the turbo back option then now is a great time to proceed with installation of the downpipe
- ⓘ There is some overlap with these instructions, particularly around removal of the skid tray
- ⓘ We think the easiest path is to come back to these instructions at step 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







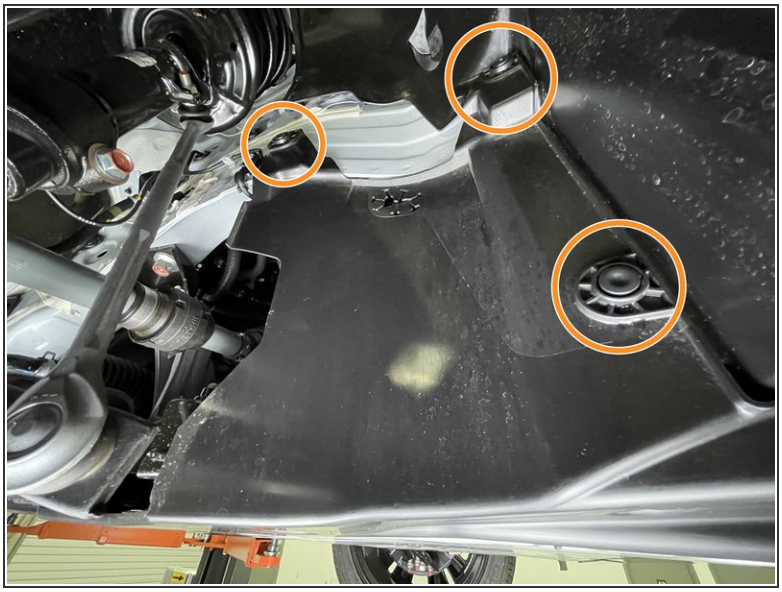
- Locate the Skidtray
- We recommend using a prying tool like the one shown by the green square
- Use a flathead screwdriver or a prying tool to remove the fourteen (14) plastic push-clips circled in orange. **Orange arrows identify the eight (8) additional push-clips described in the next step that 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 ratchet 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

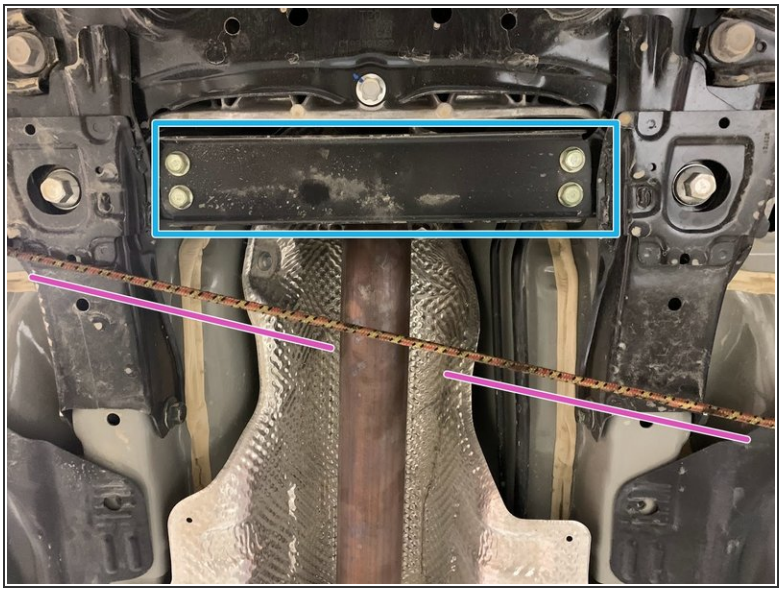


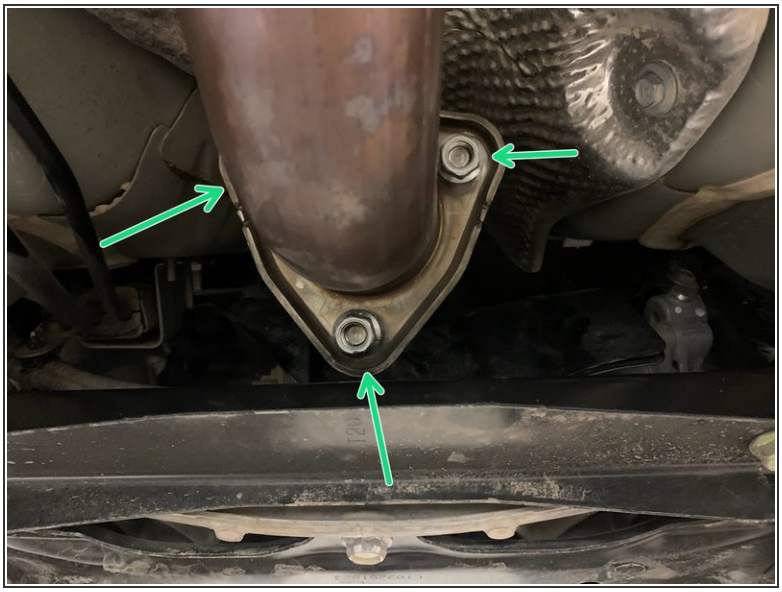


- Use a large flat head screw driver or prying tool to remove the four (4) push-clips from **each** front wheel well


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## Step 9 — Unbolt OE Exhaust from Front Pipe

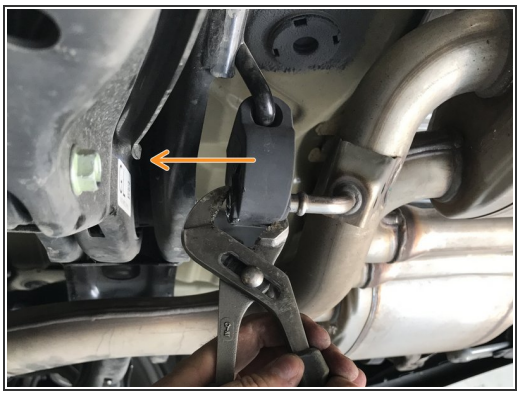




- Remove (4) bolts shown with a 14mm socket and ratchet for easier access to flanges
- Support where the exhaust meets the front pipe with a bungee cord
- Using a 14mm socket, remove the (3) exhaust bolts shown


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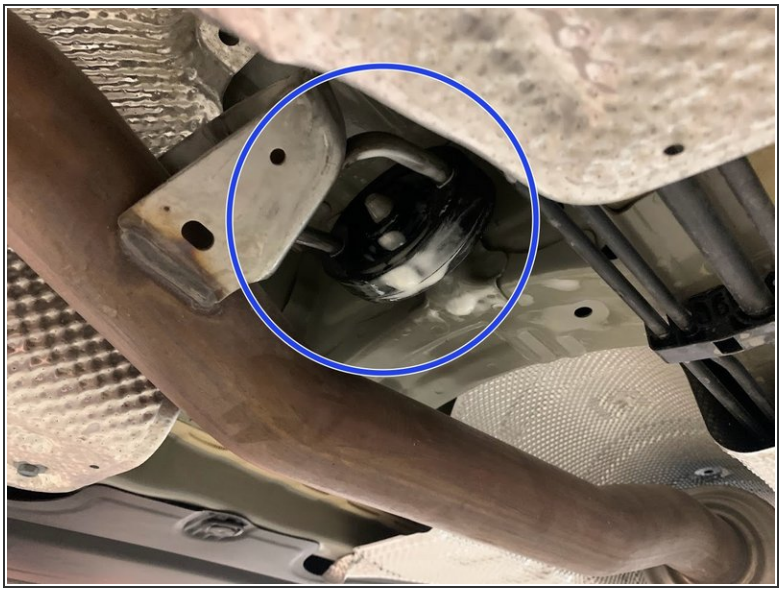
## Step 10 — Tips for Removing Exhaust Hangers


- 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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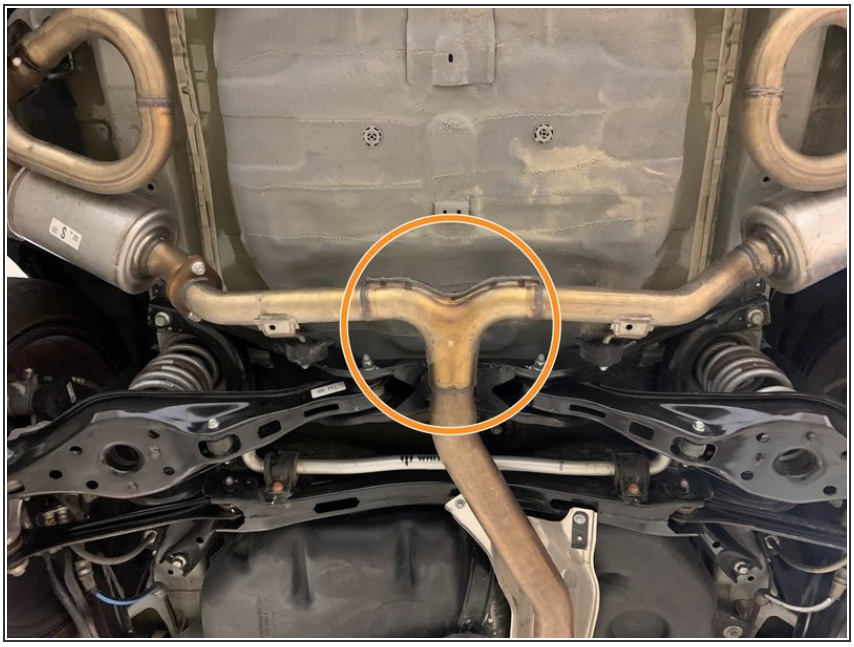
## Step 12 — Remove Both Exhaust Tip Supports





- ⓘ 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

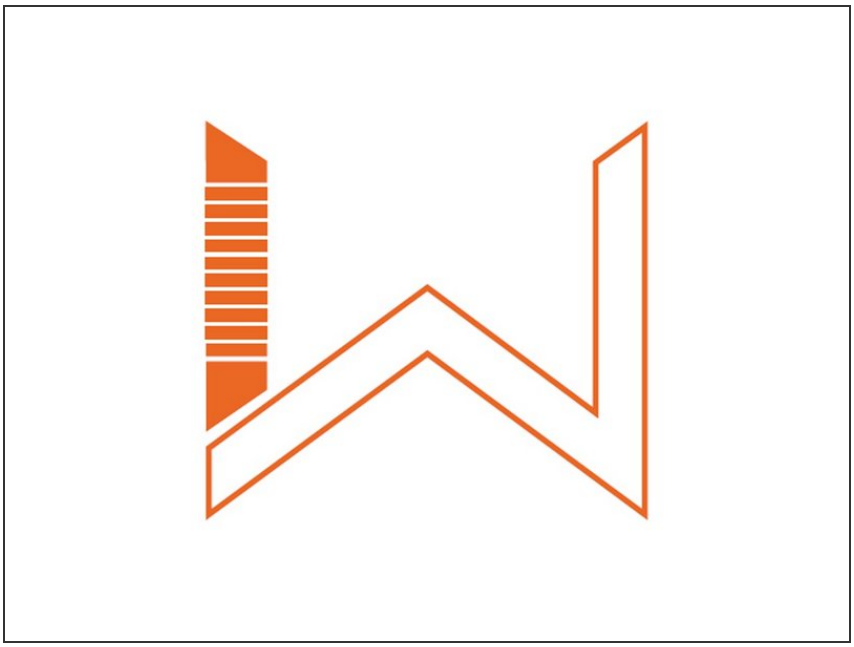




- Using a spray cleaner, lubricate the remaining rear hangers and rubber supports
- Use tongue & groove pliers to press the rod out of the rubber hanger, remove the hangers of the exhaust from the rubber supports as shown

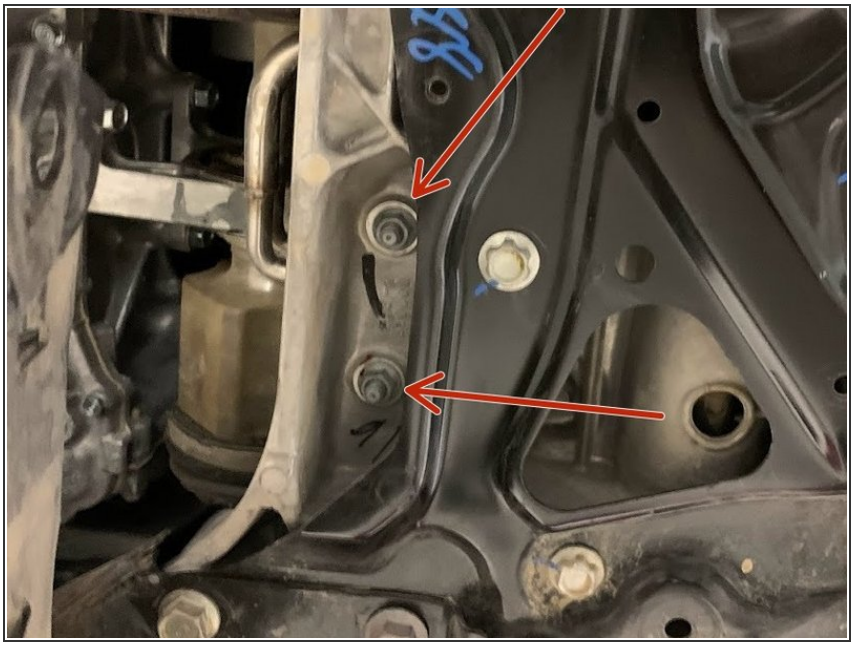
⚠ If the exhaust is unsupported it will fall and possibly become damaged. If not done yet, make sure you support the OE exhaust

## 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

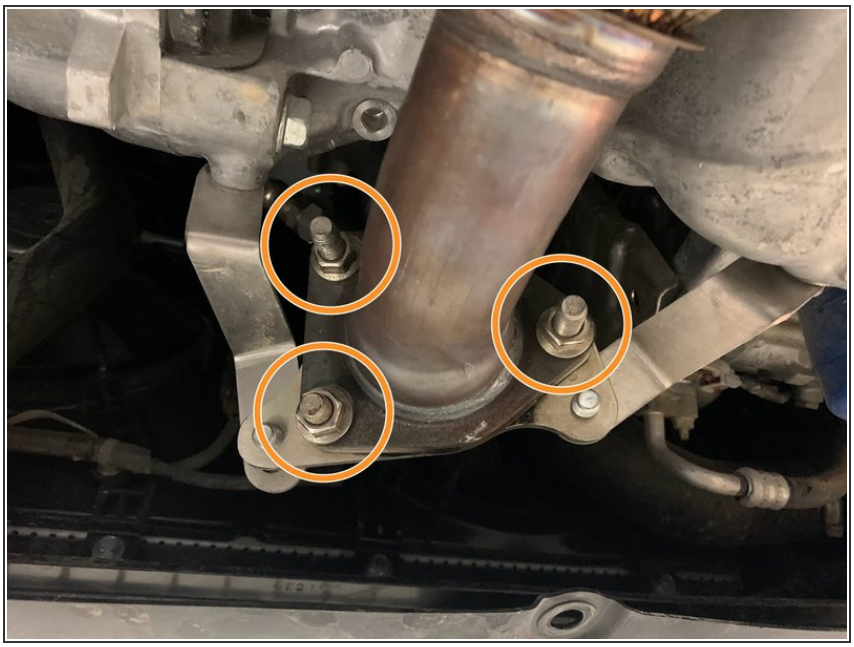
## Step 16 — Loosen Front Pipe Hanger Support



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

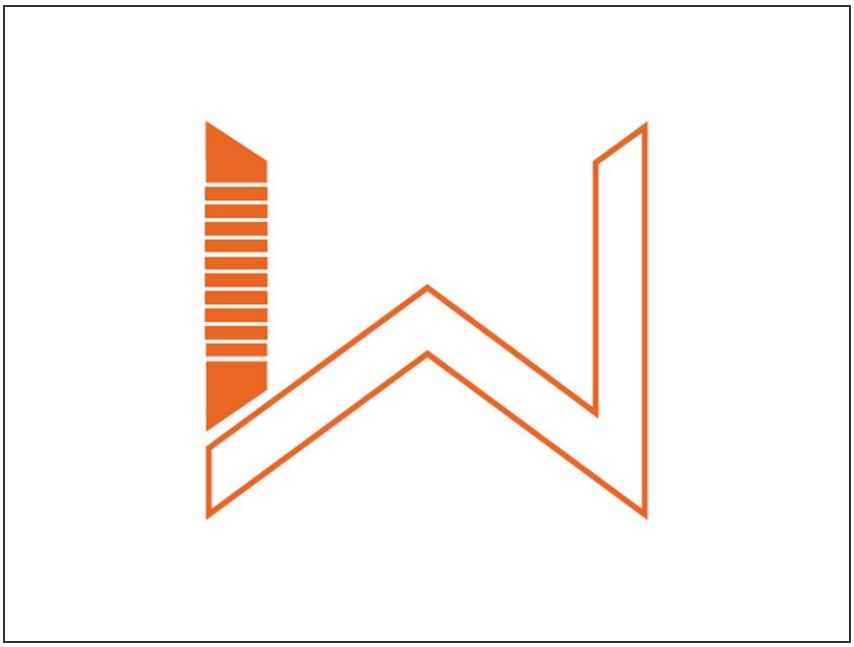

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## Step 17 — Unbolt the Front Pipe From the Down Pipe



- ⓘ 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

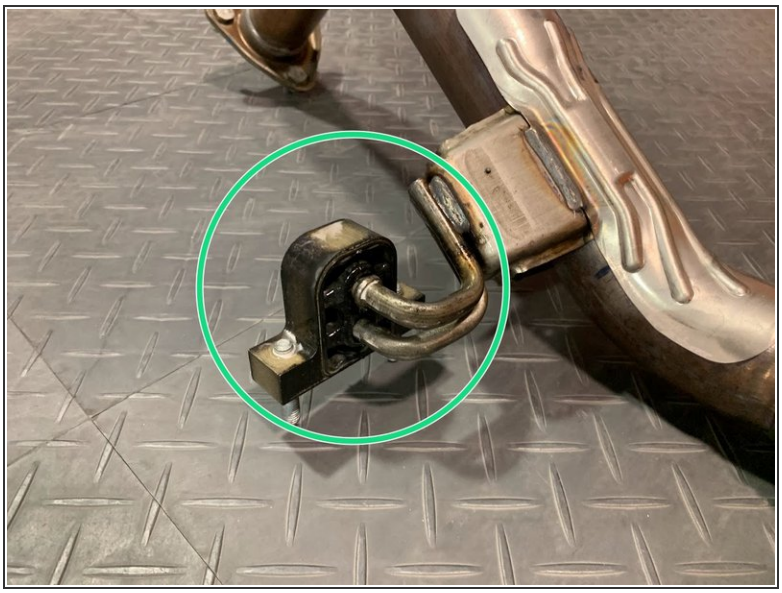
## Step 18 — Remove the Front Pipe

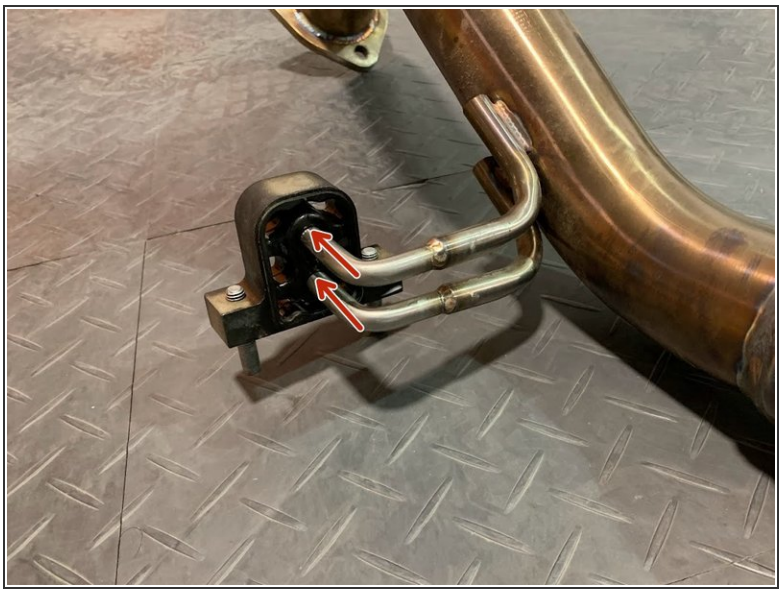


- With the front pipe unbolted, remove the front pipe from the car and set aside


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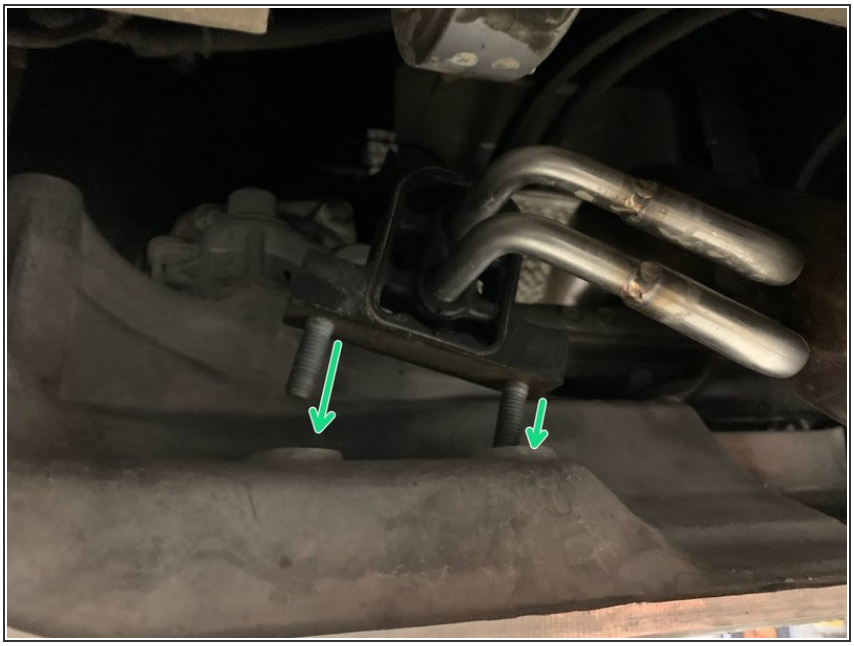
## Step 19 — Swap Front Pipe Hanger





- 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

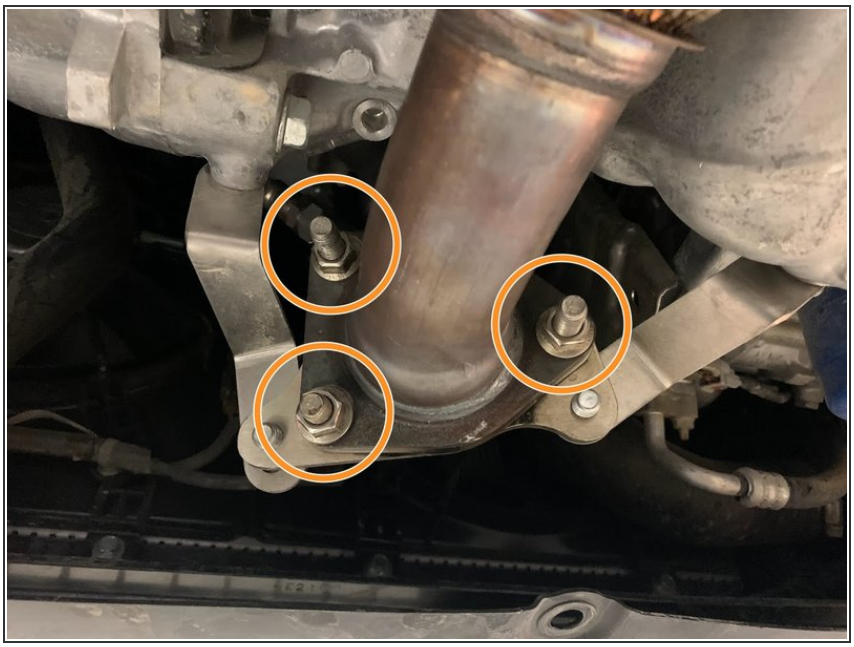
## Step 20 — Install the 27WON Front Pipe



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

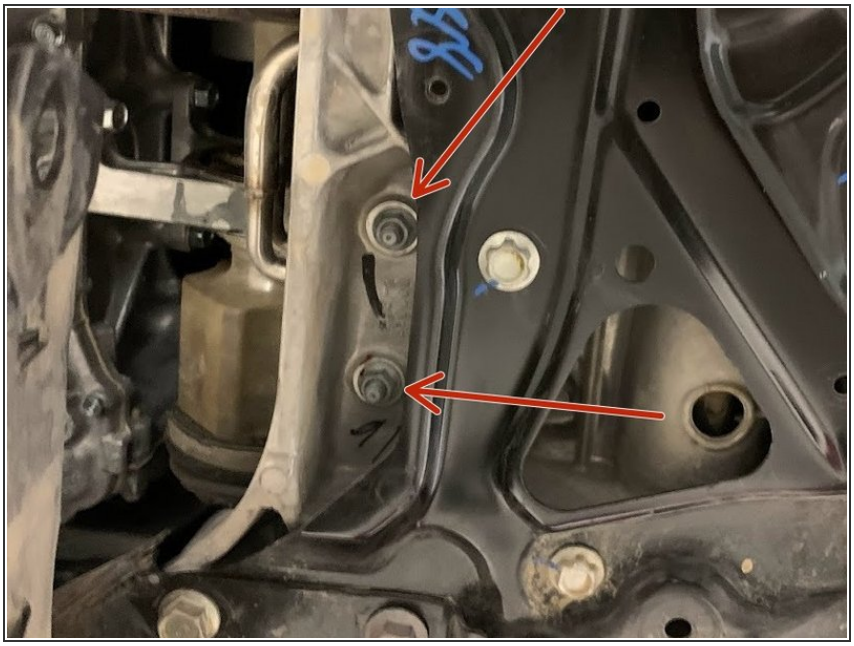

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## Step 21 — Bolt the Front Pipe to the Down Pipe



- ⓘ 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

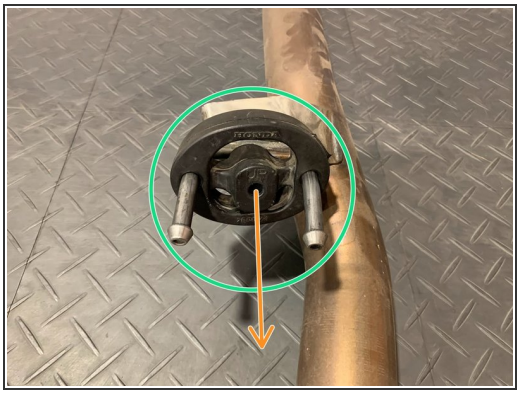
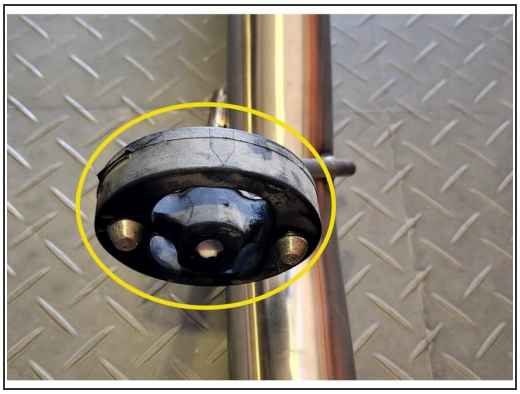
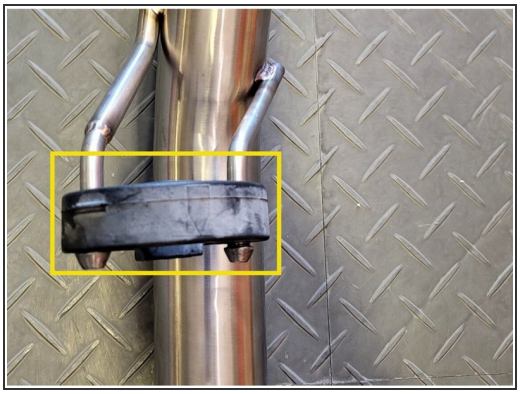


- Using a 12mm socket, reinstall the (2) bolts to secure the front pipe support to the chassis



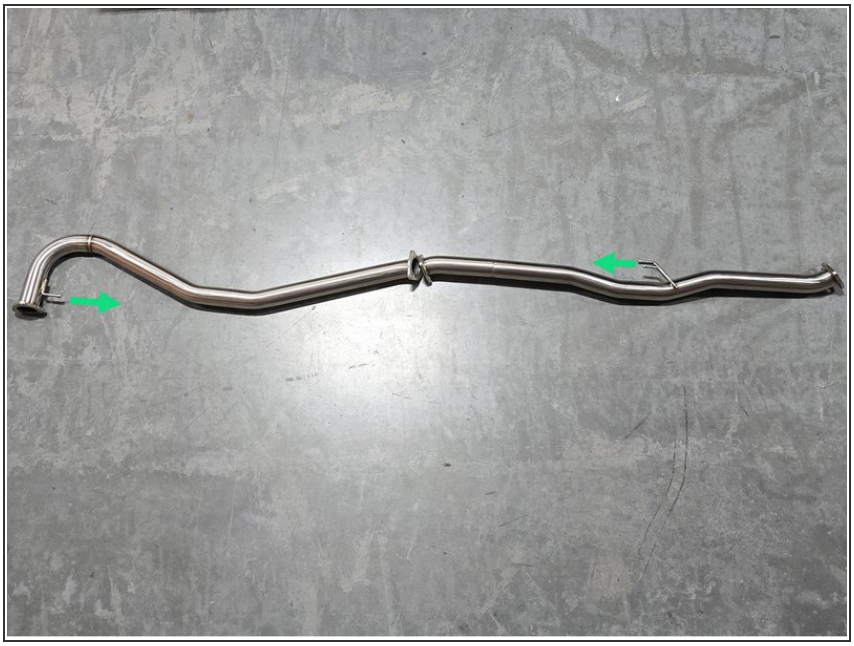
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## Step 23 — Swap Forward Mid-pipe Hanger

- 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

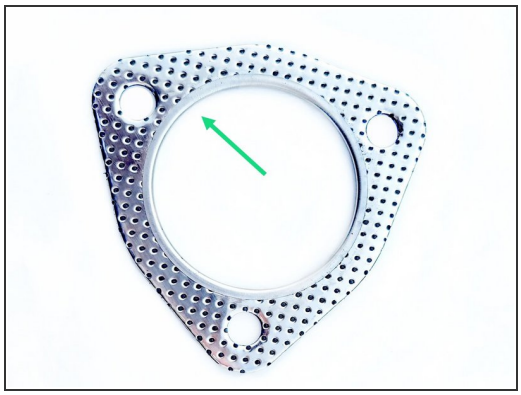
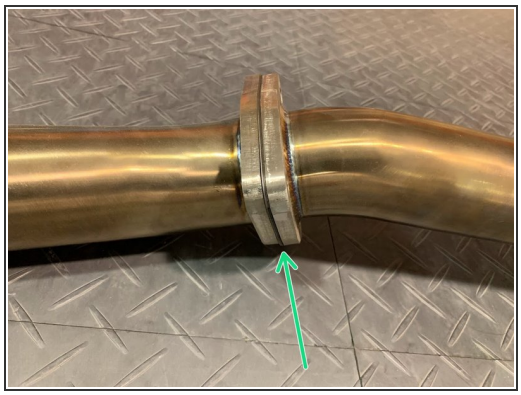
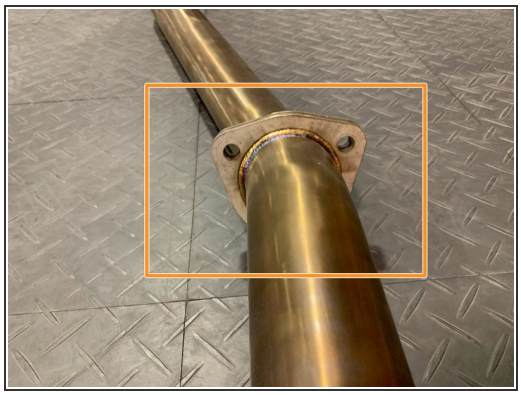
## Step 24 — Align the Forward Mid-Pipe and Rear Mid-Pipe



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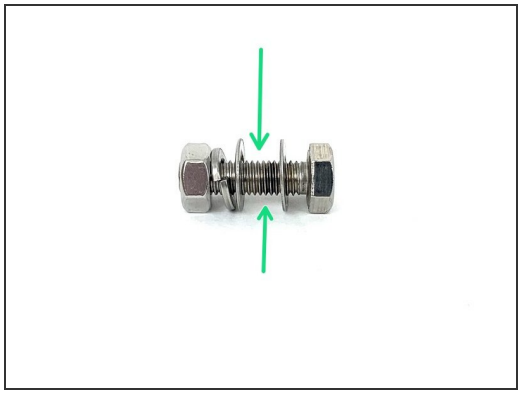
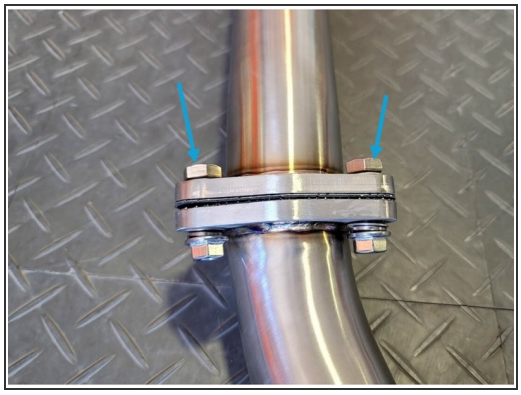
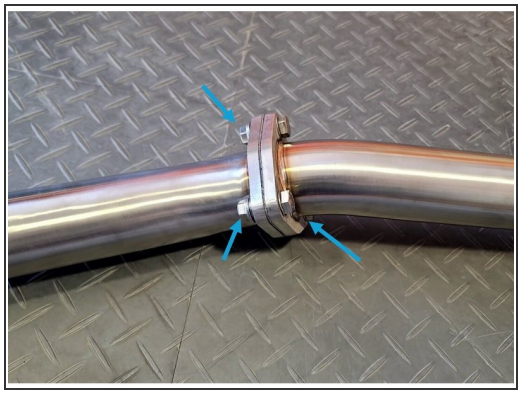
## Step 25 — Connect the Forward Mid-Pipe and Rear Mid-Pipe

- 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

## Step 26 — Install Hardware

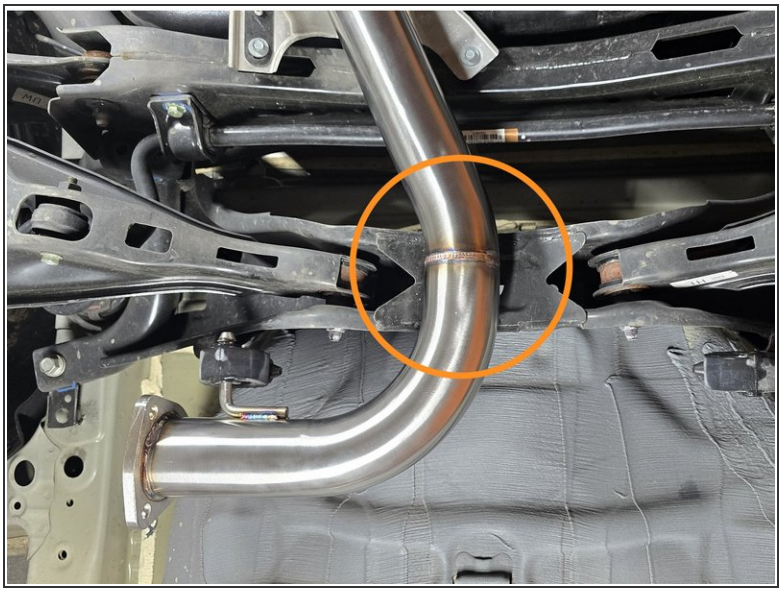




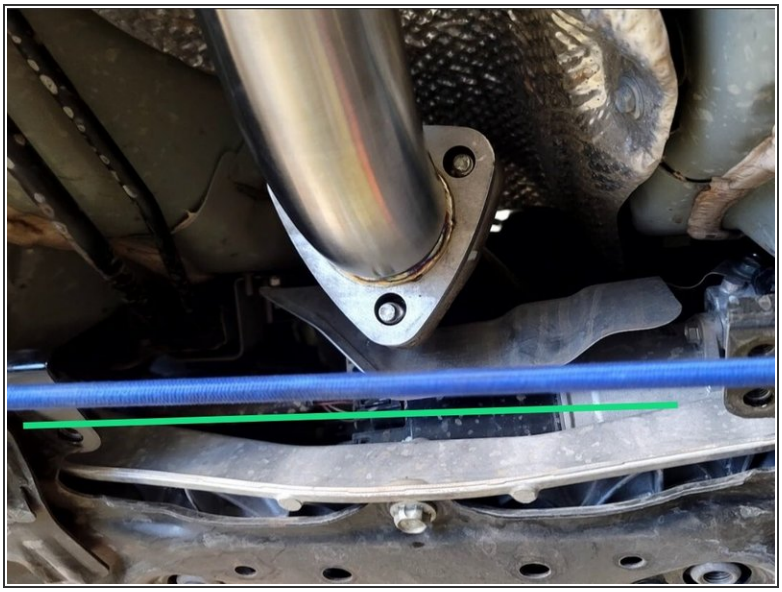
ⓘ Make sure the exhaust flanges go where the green arrow is indicating when installing your hardware in all flanges in your 27WON exhaust system

- Install 3 sets of hardware as shown using a 17mm socket and 17mm wrench. Hand tighten the hardware for now


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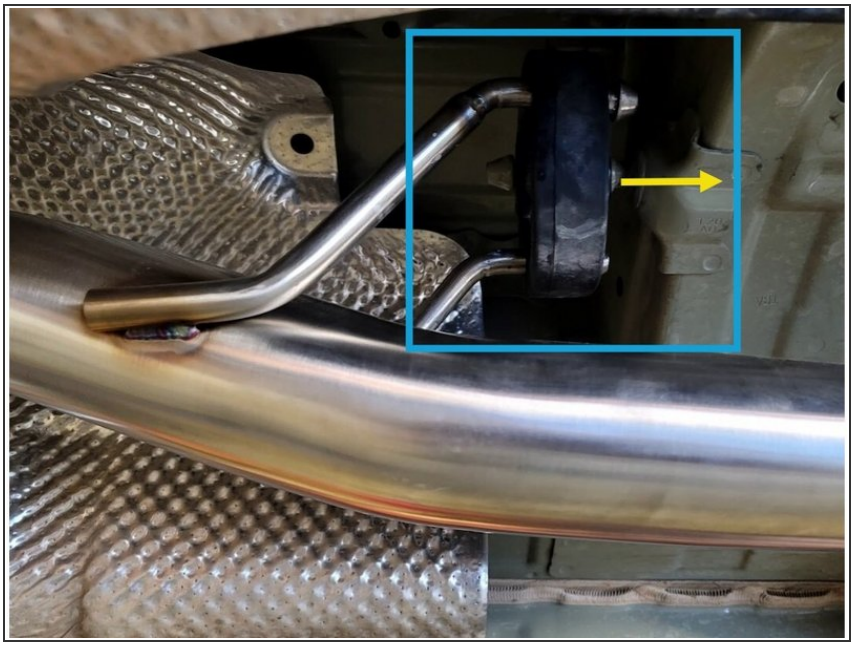
## Step 27 — Position Assembled Mid-pipes on Car





- 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

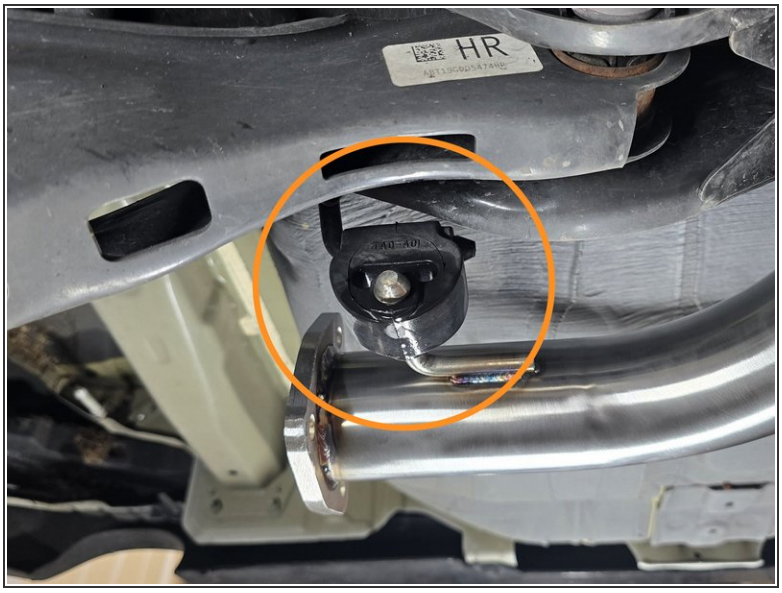
## Step 28 — Reconnect Front Hangers

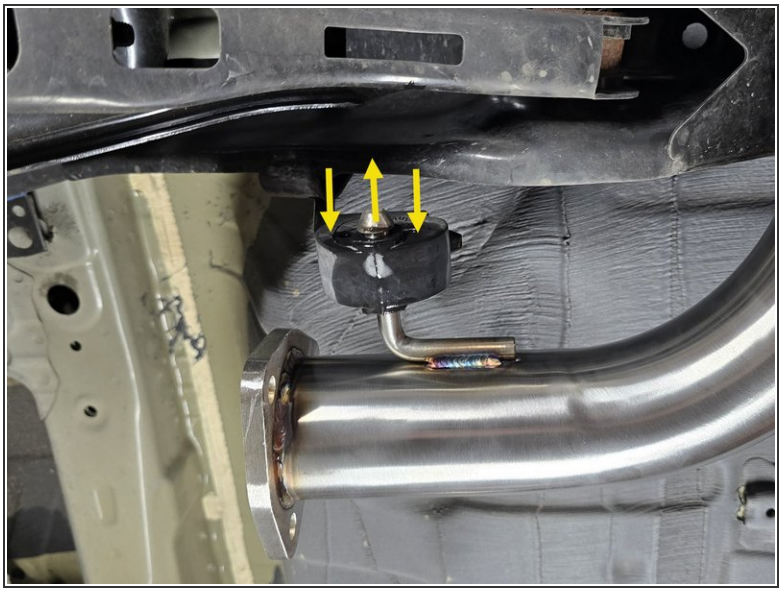


- Using a spray cleaner, lubricate the rubber hanger
- Reinsert the front hanger to the chassis hanger as shown


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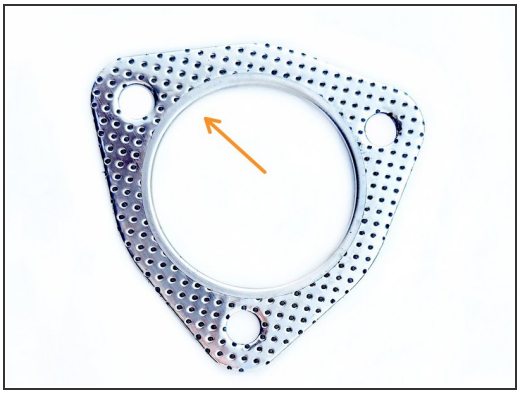
## Step 29 — Reconnect Rear Mid-pipe Hanger

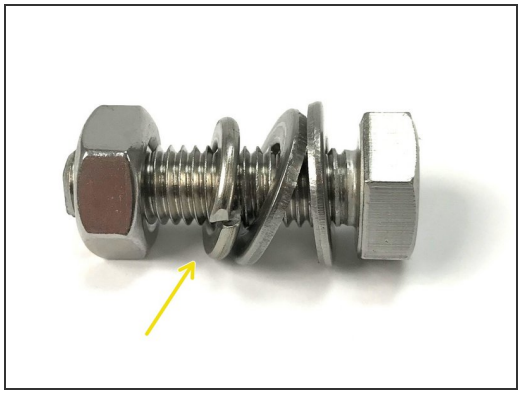


- Using a spray cleaner, lubricate the hanger support
- Reconnect the rubber hanger to the exhaust hanger

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



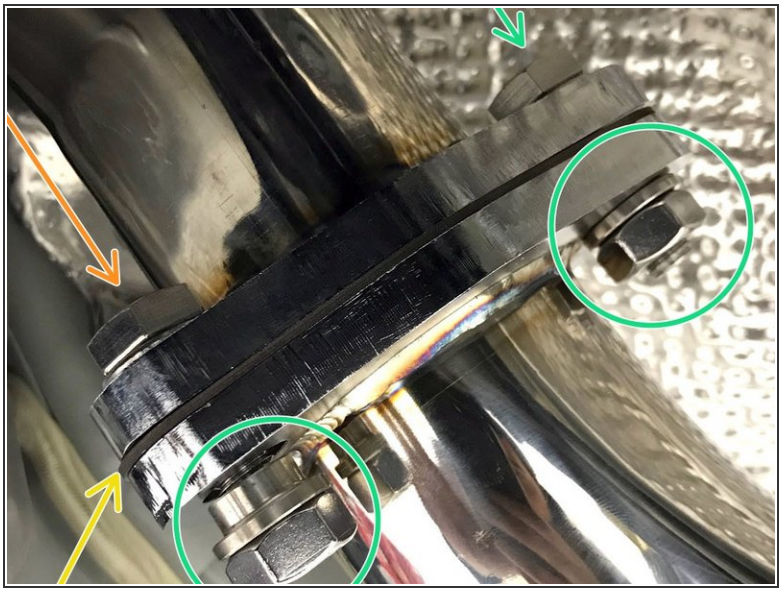


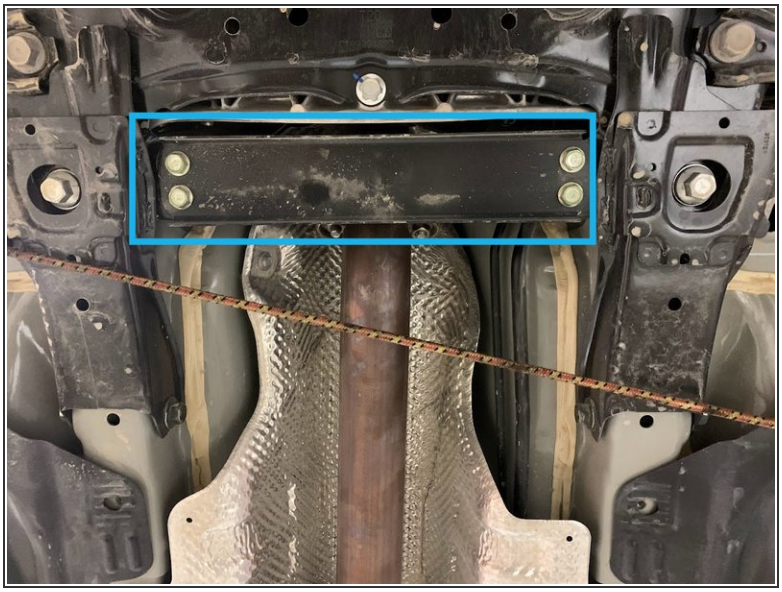


- ⓘ Skip to step 32 if you did not buy the optional front pipe
- Locate a provided "tri-bolt" gasket for front-pipe installation
- Locate QTY=3 provided 35mm length assembled M10 bolts
- Locate QTY=3 provided step bushings


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



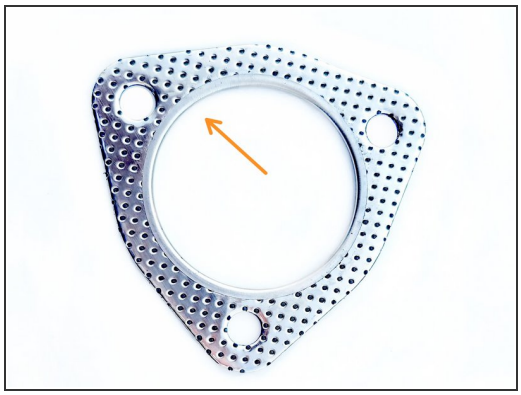
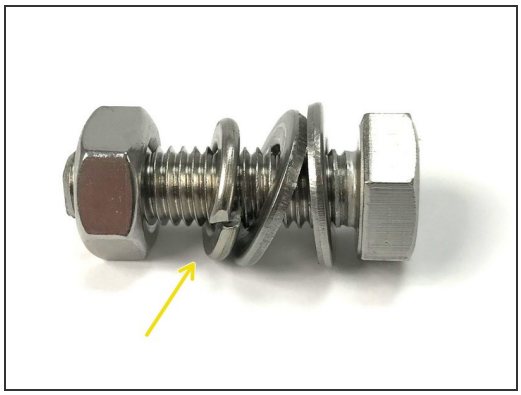


⚠ Perfect alignment of the flanges is recommended. Even 1mm of misalignment can cause a big fitment issue at the rear of the car

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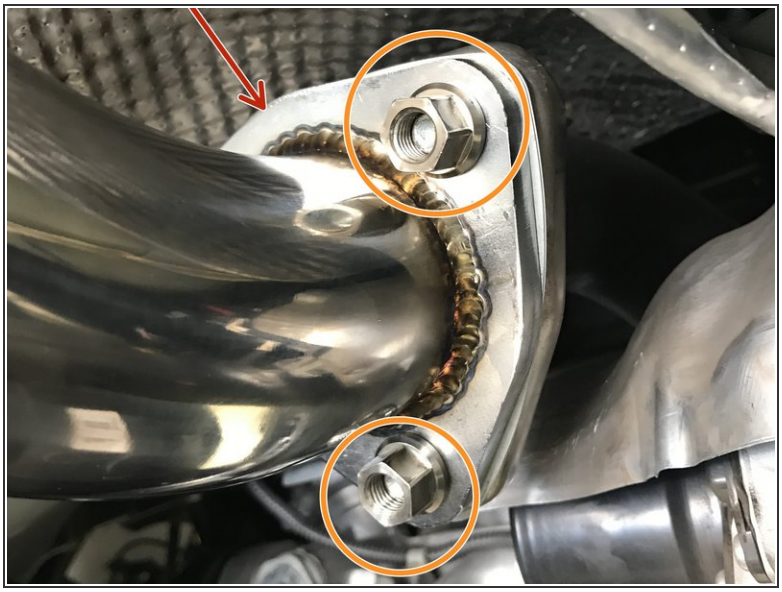
## Step 32 — Gather Parts to Fasten Mid-Section to OE Front Pipe

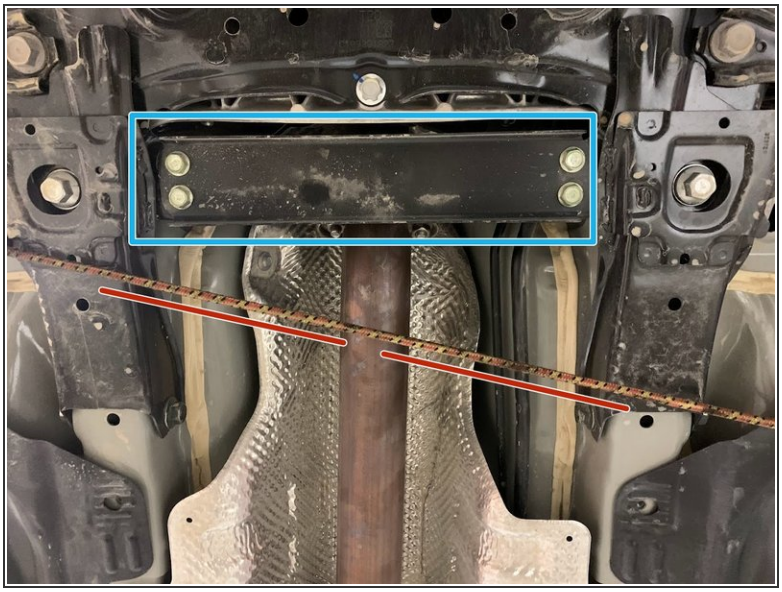




- If you purchased a 27WON front pipe then skip to step 34
- Locate QTY=3 provided step nuts
- Locate QTY=1 provided tri-bolt gaskets
- Locate QTY=3 provided 35mm length M10 bolts


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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 Section





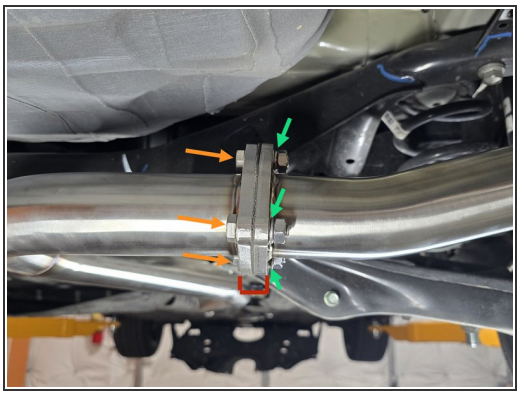
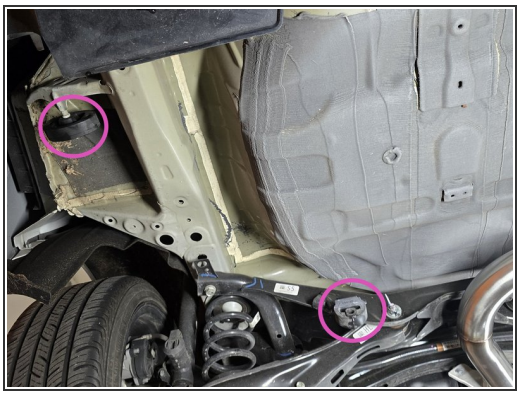
⚠ Use caution not to damage exhaust tips

- 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


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## Step 35 — Bolt Up Muffler Section

- 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
- With the exhaust fully hung, you will have (2) extra rubber supports on the drivers side of the vehicle, these can be left under the car or kept with your OE exhaust but will not be needed for this install


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## Step 36 — Check Exhaust Tip Alignment





- Stand back from the car and verify that the tip is centered and has at least 1/3 inch clearance from the bumper on both sides

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

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

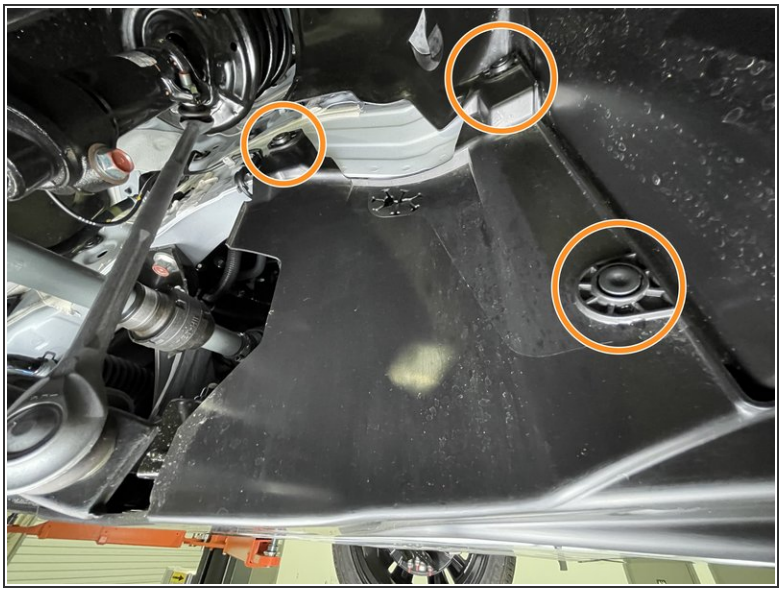
  ⓘ It can be tricky to get all the flanges just so. A very small fitment difference at the front pipe can make a big difference to how the mufflers hang

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


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## Step 37 — Reinstall the Skid Plate - Part 1

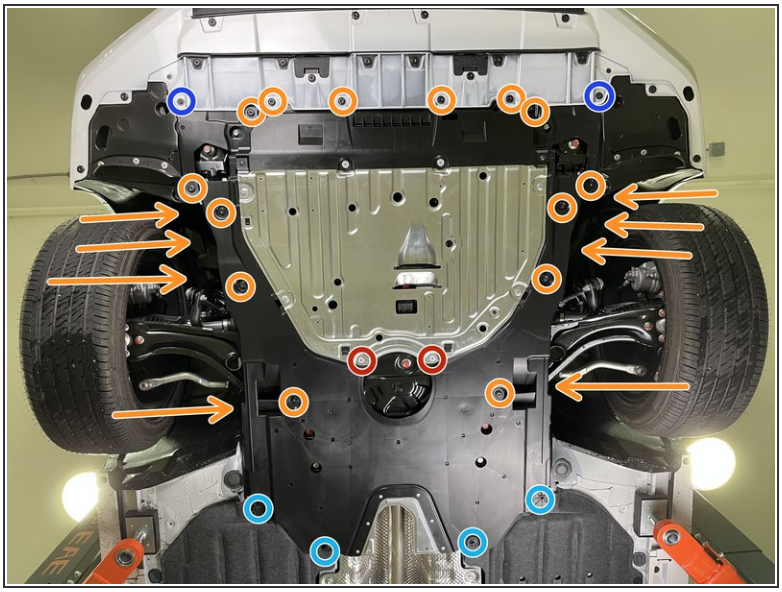


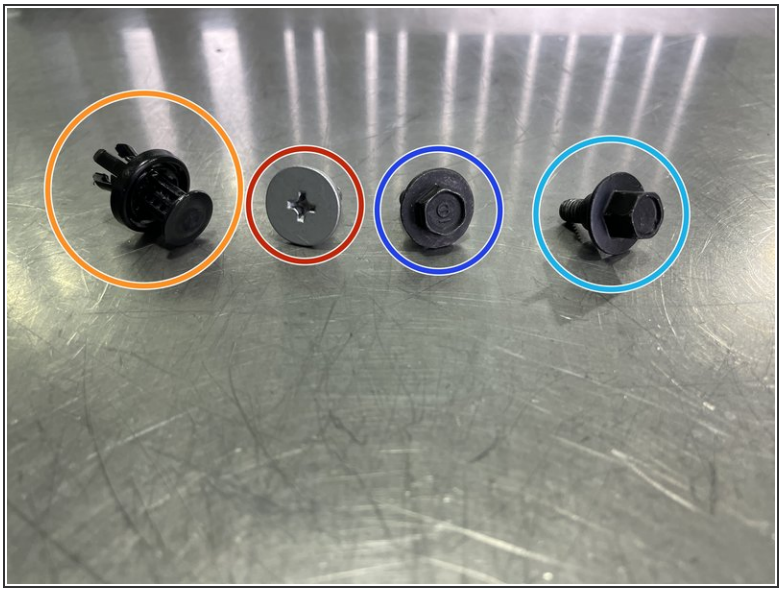


- Reinsert the (4) push pins into the mounting spots as shown
- Repeat this step on the other side


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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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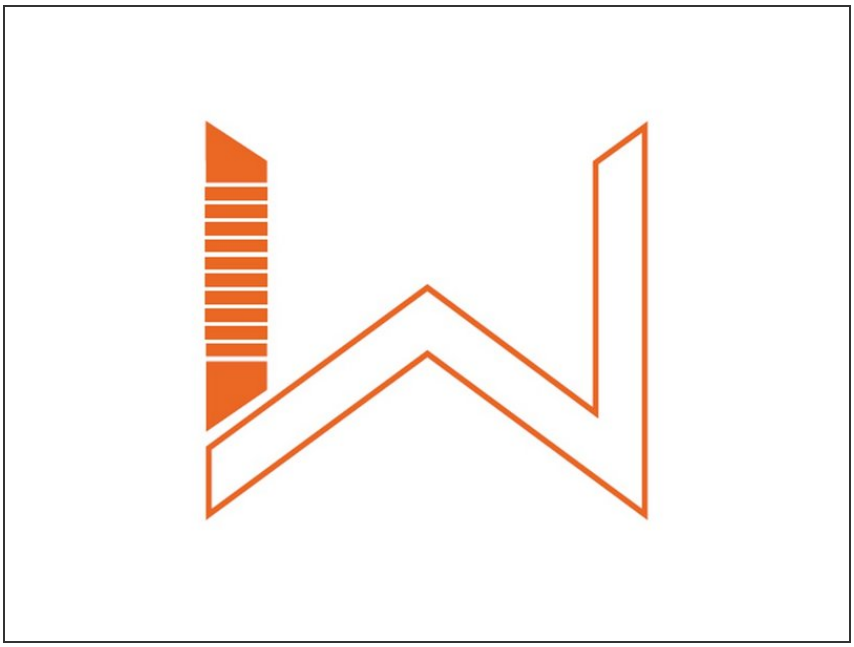
## Step 40 — Notes During Break-In



- 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 Single Exit 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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