FC3-6-10X-10 Front-Pipe Back Exhaust

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INTRODUCTION

In this installation guide we have provided step by step instructions to setup, 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:

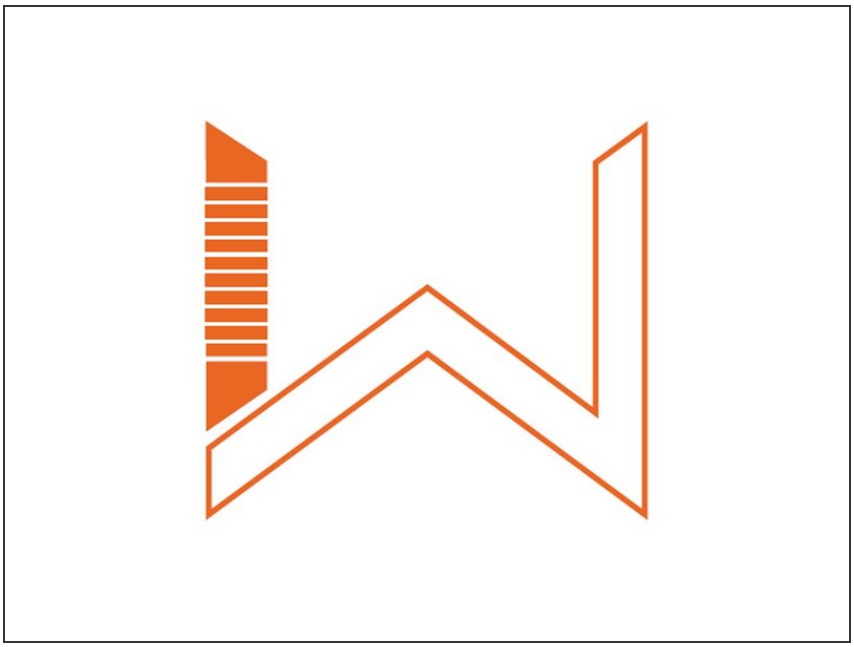
- 3/8" Ratchet (1)
- 10mm Socket - Shallow (1)
- 14mm Socket - Deep (1)
- 17mm Socket - Deep (1)
- Tongue and Groove Adjustable Pliers (1)
- 3/8" Torque Wrench (1)
- Flathead Screwdriver (1)
- Silicone Lubricant Spray (1)
- Hydraulic Jack (1)
- Jack Stand (3)
- WD-40 Lubricant Spray (1)
- Brake Clean Spray (1)

PARTS:

- FC3-6-101 Muffler Section (1)
- FC1-6-101 Rearward Mid-Section (1)
- FC1-6-101 Forward Mid-Section (1)
- 27WON 2.50" Tri-Bolt Gasket (3)
- M10x1.50x35mm Assembled Bolt (6)
- 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.

ⓘ If you are looking for the installation instructions for the 27WON Sport Hatchback Exhaust please follow this link: https://www.performanceinstalls.com/Guid...

Step 2 — 27WON FC3 Exhaust Introduction



- Hello and welcome to the 27WON FC3 Exhaust install guide. Through out this guide we have included photos of both our Dual Slant Exhaust and our Dual Round Tip Exhaust to aid in your install. We have done this for your convenience but just so you are aware the install will be the same no matter which exhaust you have purchased.

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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 on the flanges, hanger rods, and fastening locations

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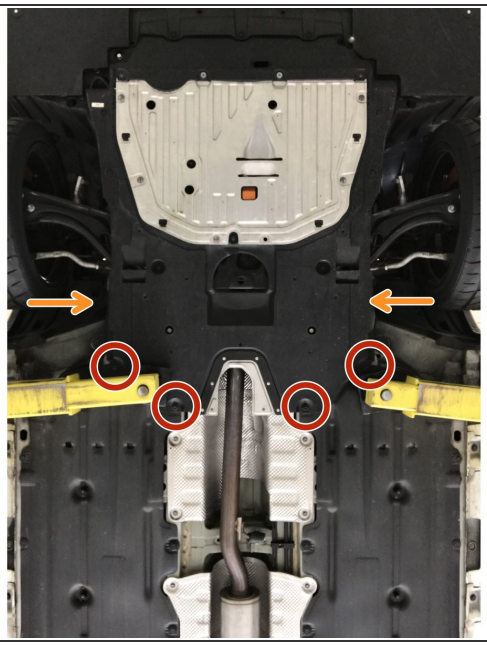
Step 4 — Use Our Handy Garage Banner or Floor Mat



- 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 — Accessing the OE Exhaust Part A



- Locate the engine under tray to gain access to the connection between the front-pipe and down stream exhaust
- Use 10mm socket & ratchet to remove the bolts
- Orange arrows identify push-clips in Step 5

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Step 6 — Accessing the OE Exhaust Part B



- Use large flat head screw driver to remove push-clips on each side of undertray

Step 7 — Locating Front-Pipe Flange



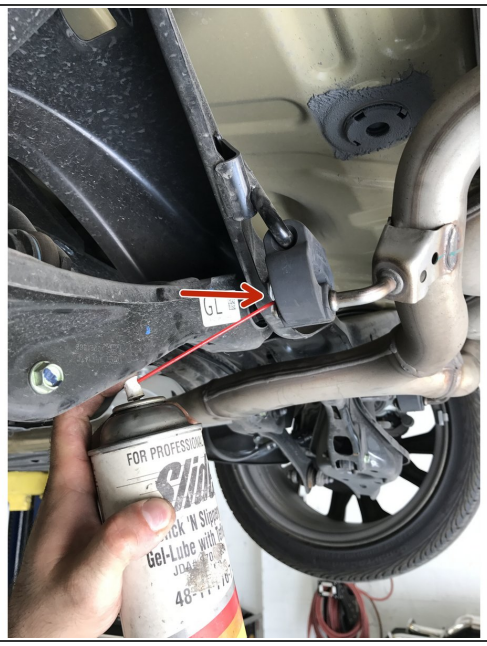
- Locate the connection between the front-pipe and down stream exhaust

⚠ Verify that the exhaust is not to hot to touch, if still hot use a fan to cool the exhaust piping before proceeding

- Use 14mm socket & ratchet to remove 3 OE nuts

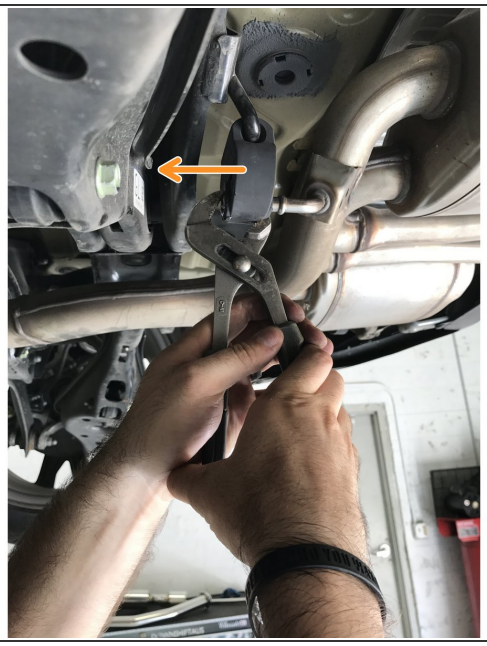
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Step 8 — Tech Tip: How To Remove Rubber Hanger Part A



- This step and the next are meant to show you how to remove rubber hangers - Parts are not being removed from the vehicle at this time
- Exhaust hangers can be difficult to remove without lubricant
  - Apply small amount of silicone spray lubricant to end of hanger rod

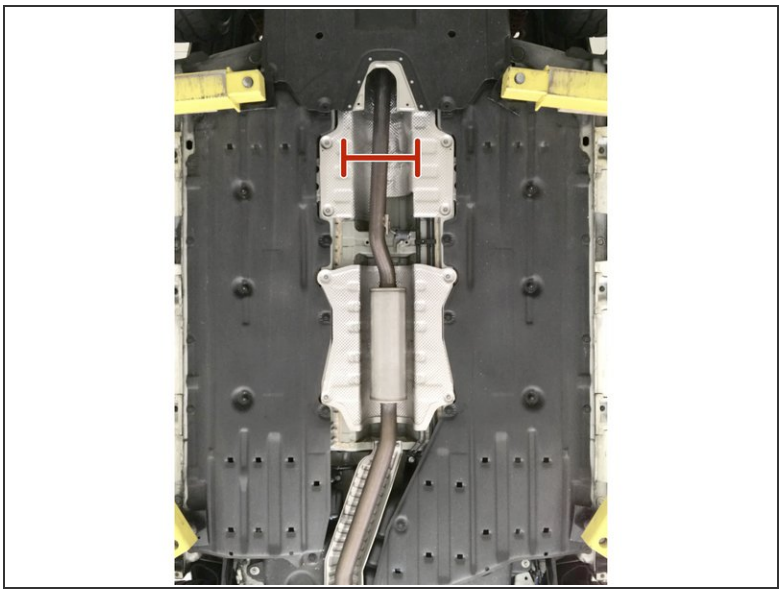
Step 9 — Tech Tip: How To Remove Rubber Hanger Part B

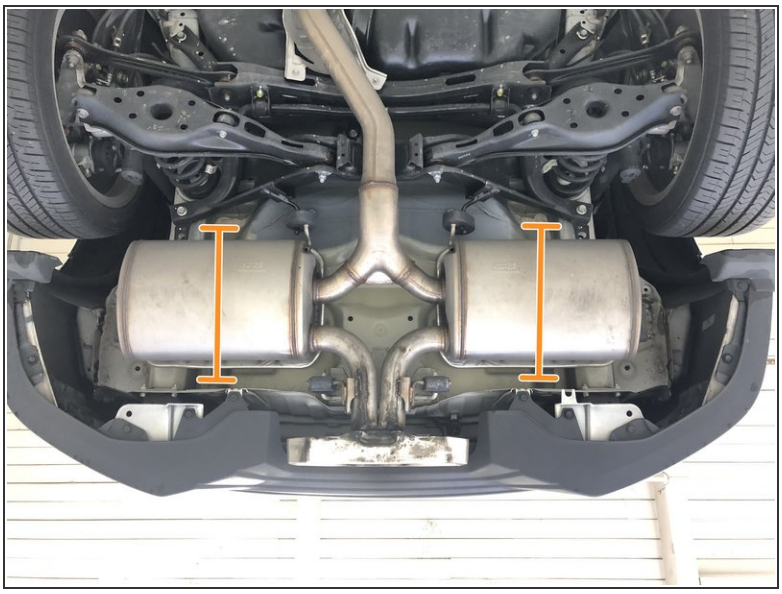


- Use tongue & groove pliers to press the rod out of the rubber hanger
  - Hook the lower jaw to the edge of the rubber hanger. Hook the end of the upper jaw on the end of the rod to push the rod out of the hanger

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Step 10 — Secure OE Exhaust for Removal



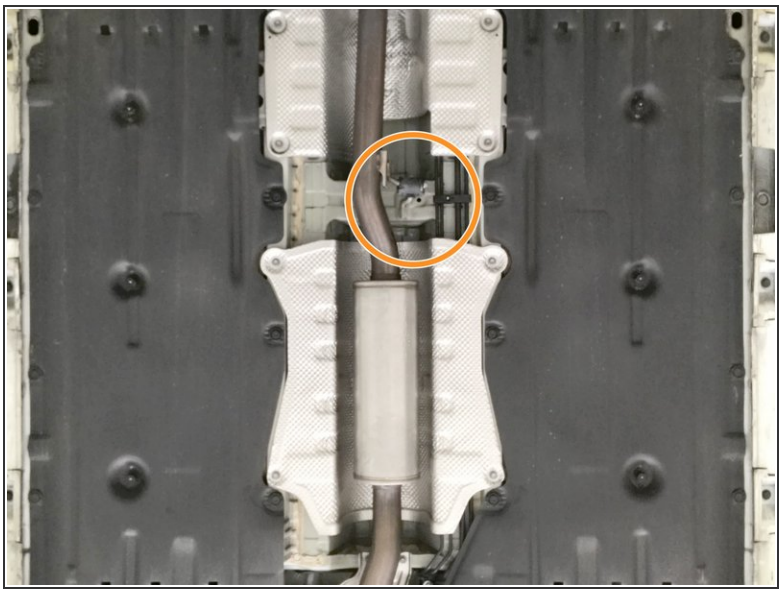


⚠ Support the exhaust mid-section with a jack stand, bungy, or second set of hands before the next step

- Support Mid-Section forward of the resonator as shown
- Support Rear Muffler Section in two locations as shown

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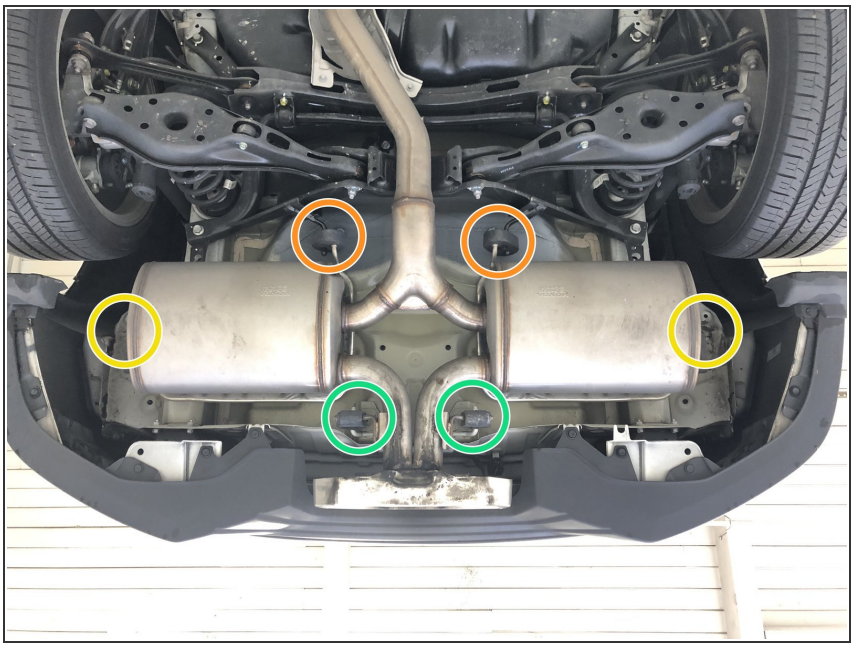
Step 11 — Removing Mid-Section Hanger





- Locate the rubber hanger in the exhaust mid section
- Use the tongue & groove pliers to pull the rubber hanger off the chassis rod in the direction of the red arrows
  - ⓘ The rubber hanger will come off with the OE exhaust

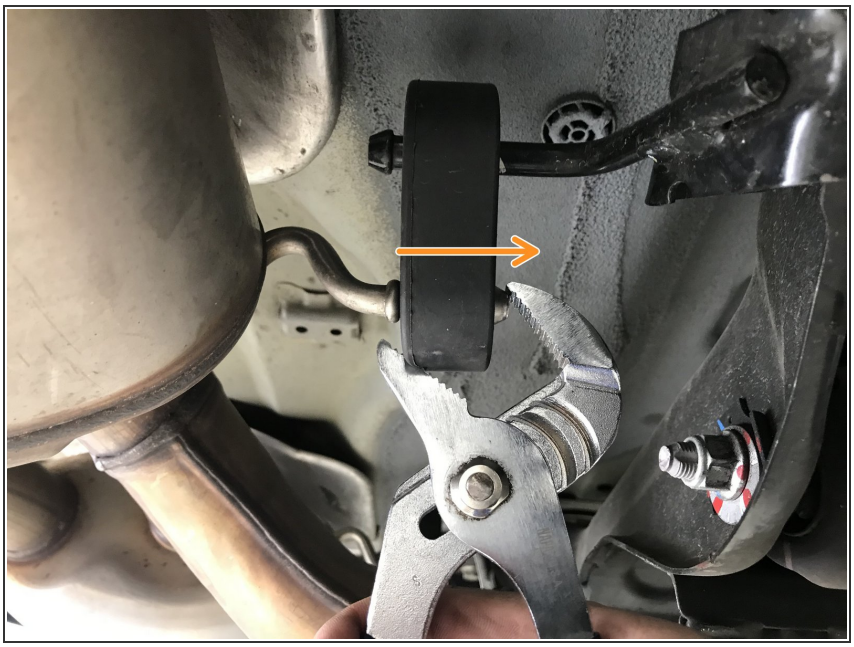
Step 12 — Locate Muffler Section Exhaust Hangers



- Forward single rod rubber hangers
- Middle dual rod rubber hangers
- Rearward single rod rubber hangers

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Step 13 — Remove Muffler Section Forward Hangers



- Pull the single rod hanger completely off the hanger rod and pivot out of the way as shown
- Complete for both passenger and drivers sides

Step 14 — Remove Muffler Section Middle Hangers



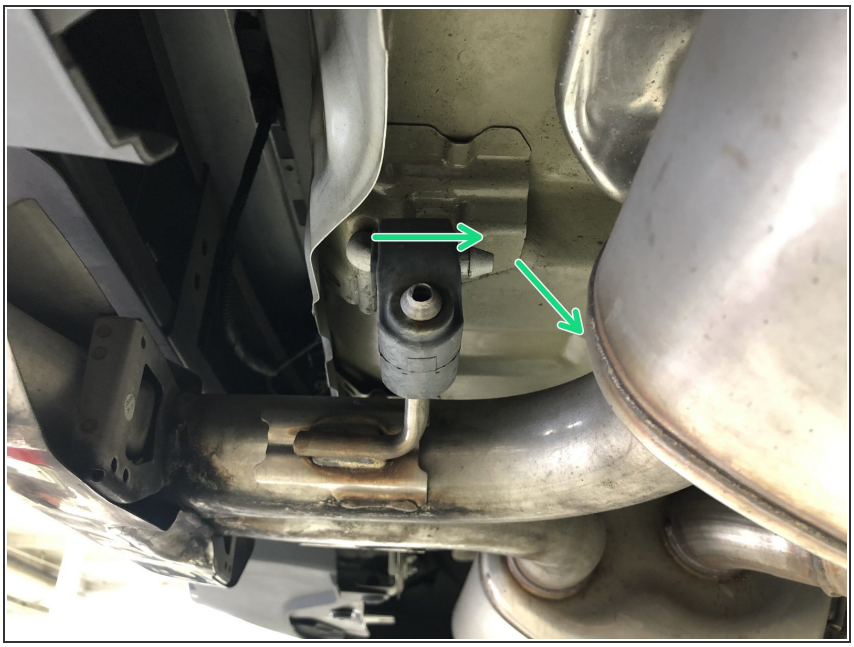


- Pull the rubber hanger off the chassis hanger rod as shown
- Completely remove the rubber hanger as shown so it is not being supported by the chassis hanger rod

ⓘ These rubber hangers are not used on the 27WON Exhaust

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Step 15 — Remove Muffler Section Rearward Hangers



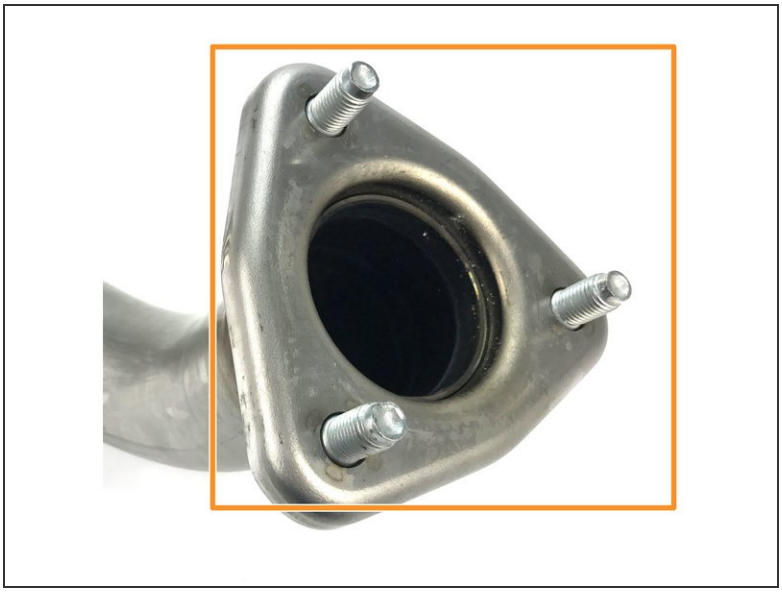
- Pull the rubber hangers off the chassis hanger rods and rotate downward; the rubber hangers will stay on the exhaust

ⓘ Lower the exhaust to the ground and remove from under vehicle

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Step 16 — Cleaning the OE Front-Pipe

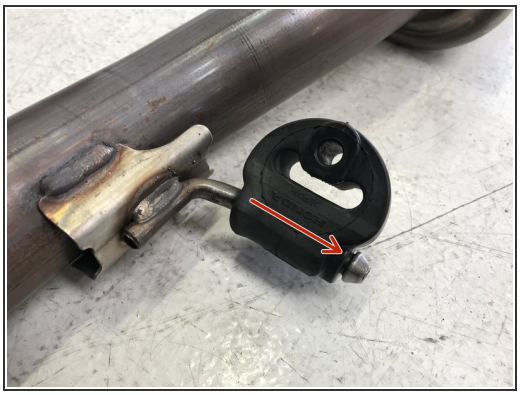
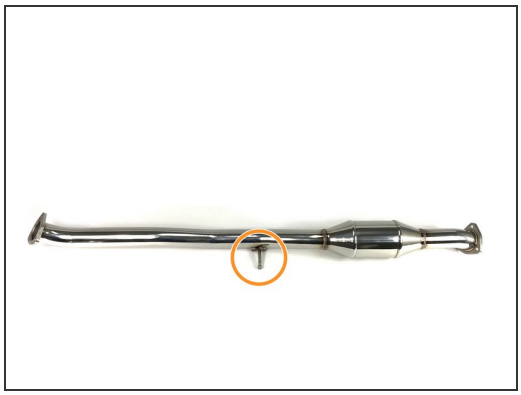
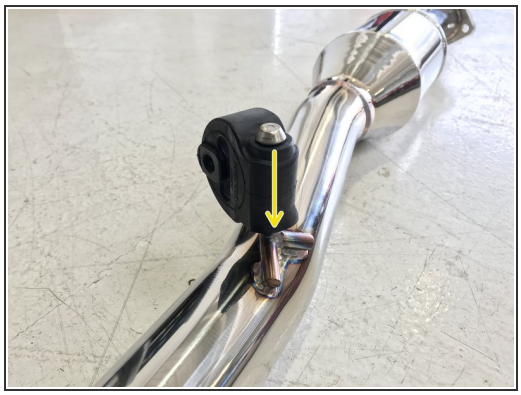




- Remove any debris/residue remaining on the OE front pipe
- The surface should be clean and smooth for good gasket sealing; the result should look as shown
- ⓘ An assortment of tools can be used to remove the old gasket material. For example: scraper, sand paper and scotch bright pad, sand paper wheel...etc then cleaned with WD-40 and break clean
- ⚠ Do NOT remove the OE studs found in the front-pipe; these are used for installation

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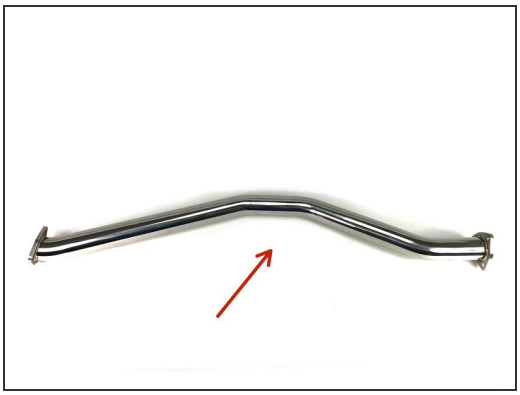
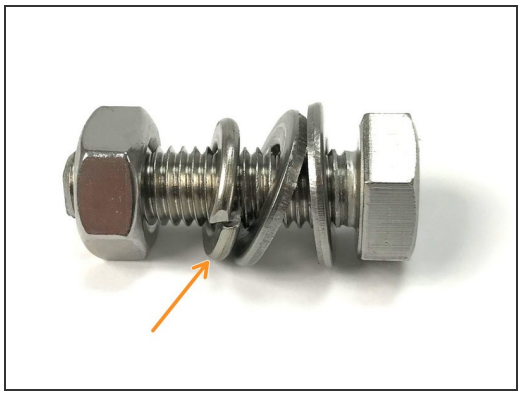
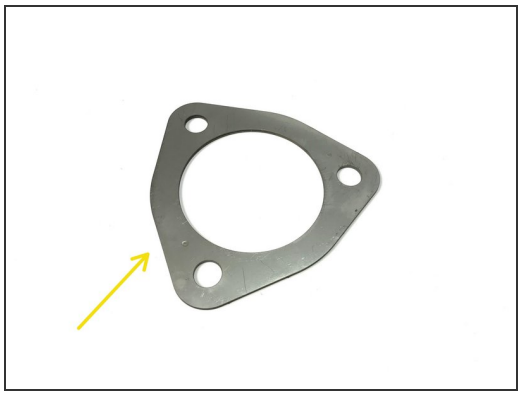
Step 17 — Transfer Mid-Section Dual Rod Rubber Hanger

- Remove the rubber hanger from the OE exhaust
  - ⓘ Use of silicone spray may be needed
- Locate the hanger rod on the 27WON Forward Resonated Mid-Pipe
- ⓘ Remove the bubble wrap and foam wrap from the hanger rod, **but maintain bubble wrap protection on remaining exhaust**
- Install the rubber hanger onto the 27WON Forward Mid-Pipe as shown
  - ⓘ Use of silicone spray may be needed

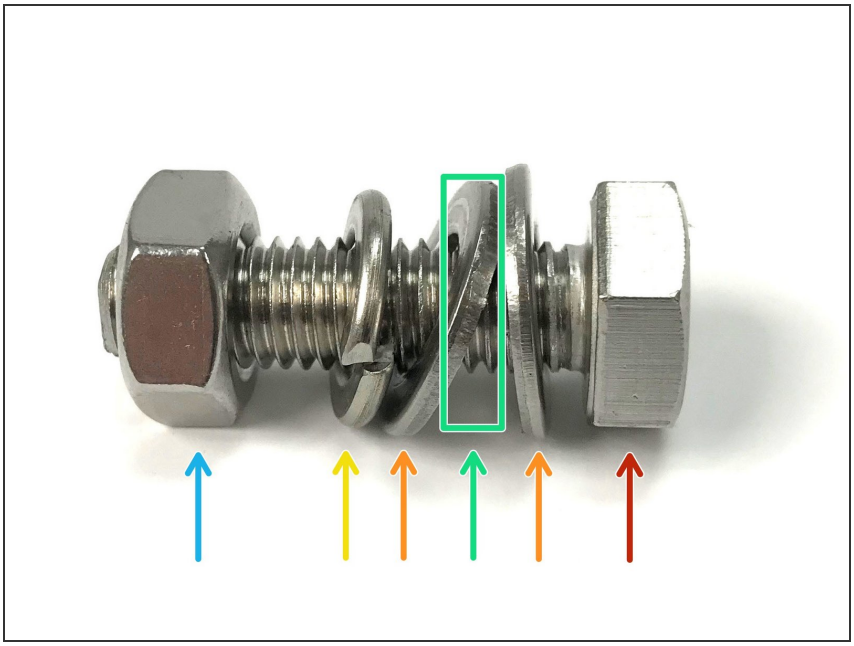
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Step 18 — Gather Parts to Assemble Mid-Section Exhaust Pipes

- Locate the rearward mid-section exhaust pipe
  - ⓘ This process is performed off the vehicle for best results
- Locate QTY=3 sets of 35mm length M10 bolts
- Locate QTY=1 tri-bolt gasket

Step 19 — Tip: Hardware Setup & Assembly

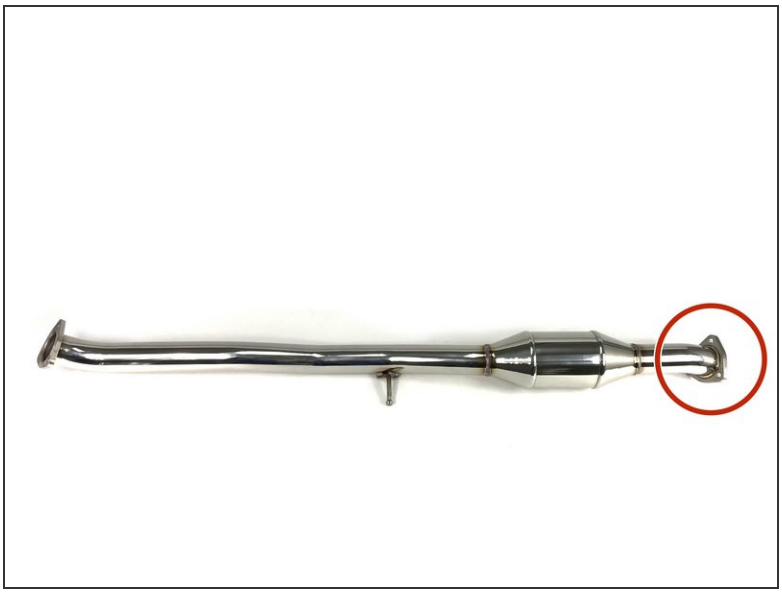


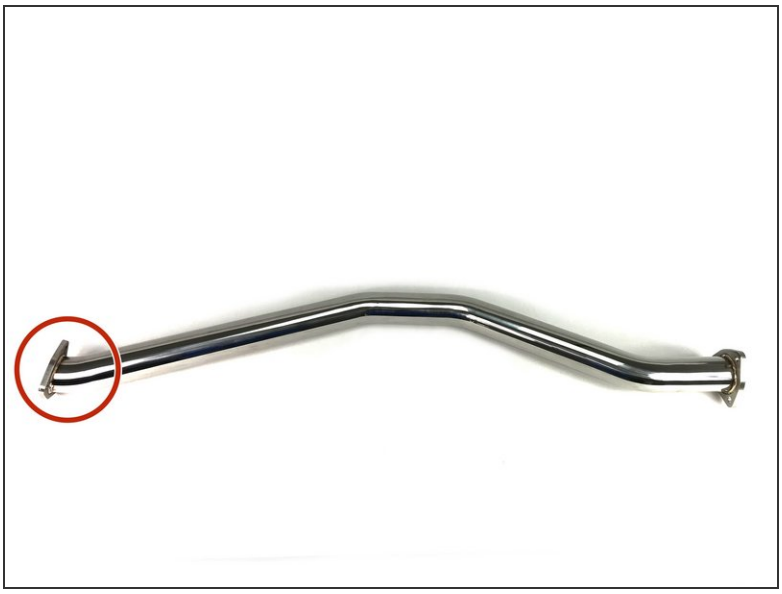
ⓘ The location of the flat washers, flanges, and split lock washer are critical for proper fastening and vibration resistance.

- 17mm M10 Nut
- M10 Split Lock Washer
- M10 Flat Washers
- Exhaust Pipe Flange and Tri-bolt Gasket Location - Between the two flat washers
- 17mm M10 Bolt Head

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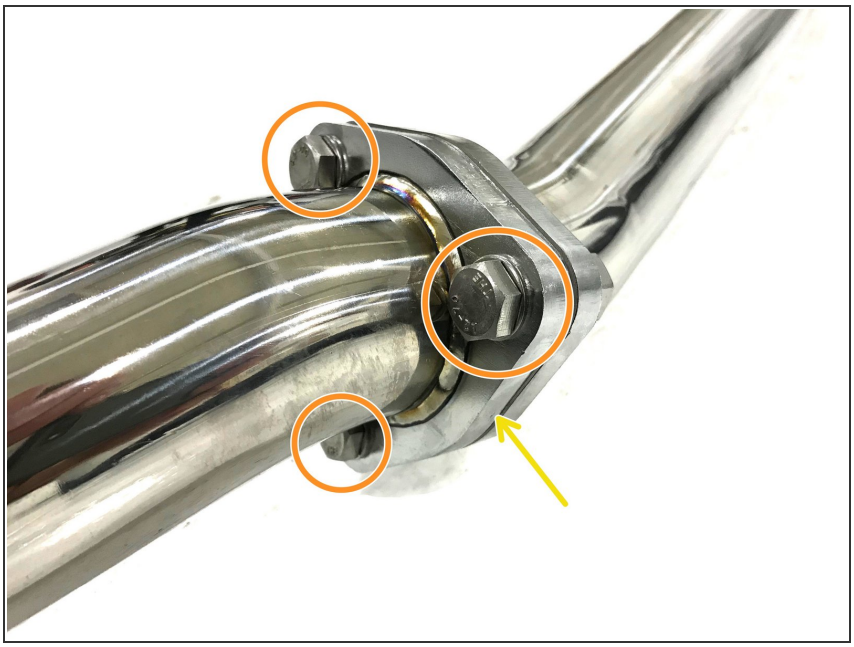
Step 20 — Assembling Mid-Section Exhaust Pipes - Part A





- ⓘ Expose the flanges through the bubble wrap, but maintain bubble wrap protection on remaining exhaust
- Position the forward and rearward mid-section inline with the flanges circled in red next to each other.

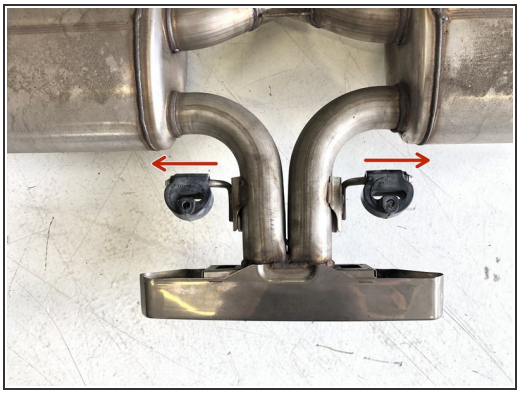
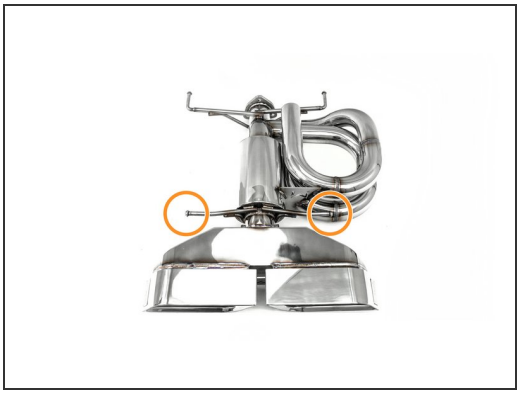
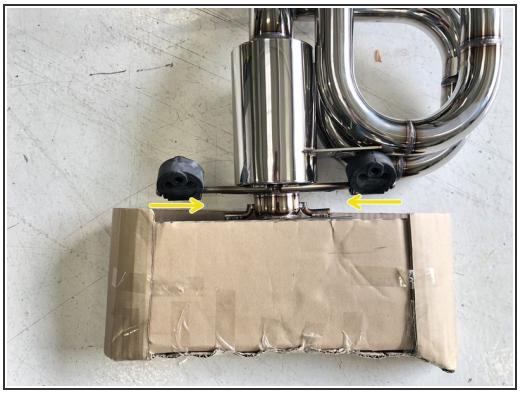
Step 21 — Assembling Mid-Section Exhaust Pipes Part B



- Install the provided tri-bolt gasket
  - ⓘ The tri-bolt gasket can be installed in any orientation
- Using the 35mm length M10 bolts, insert the bolts through the forward mid-section pipe
  - ⓘ See Step 18 for hardware setup
- Install the remaining washers and nuts. Get the bolts snug, but leave loose enough for each pipe to move independently

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Step 22 — Transfer Rearward Rubber Hangers

- Remove the rubber hanger from the OE Muffler Section
  - ⓘ Use of silicone spray may be needed
- Locate the rearward hanger rod on the 27WON Muffler Section
- ⓘ Remove the bubble wrap and foam wrap from the hanger rod, **but maintain bubble wrap protection on remaining exhaust**
- Install the rubber hangers onto the 27WON Muffler Section as shown
  - ⓘ Use of silicone spray may be needed

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Step 23 — Installing Muffler Section Part A





ⓘ An extra set of hands may be useful for this step. Also the use of silicone spray on the hangers may be helpful with installation

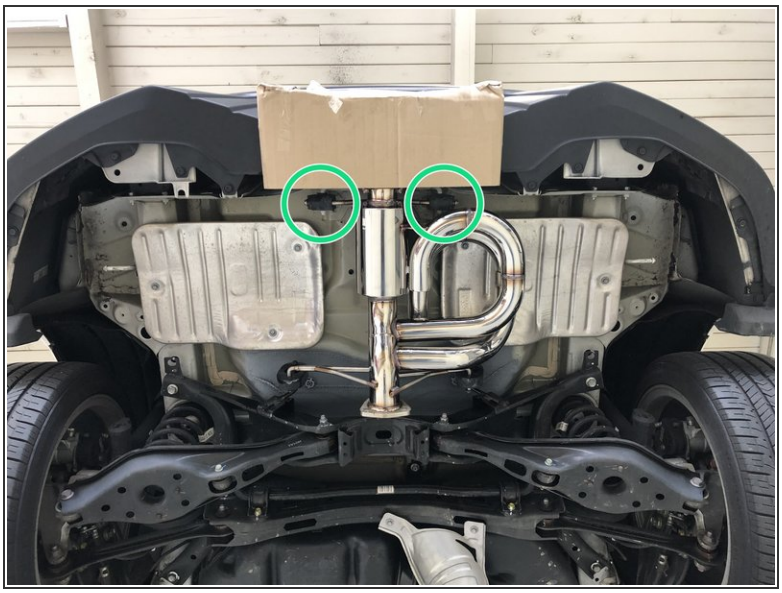
- Insert both forward hangers as shown

⚠ Verify the bead of the hanger is through the rubber hanger as shown

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Step 24 — Installing Muffler Section Part B





- Then raise the rear end of the muffler section up and insert both rearward hangers

⚠ Verify the bead of the hanger is through the rubber hanger as shown

Step 25 — Installing Mid-Section Exhaust Part A



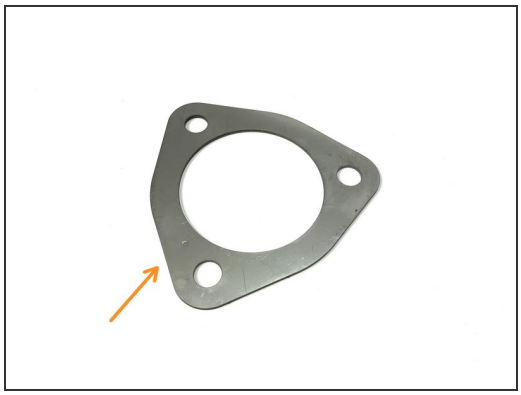
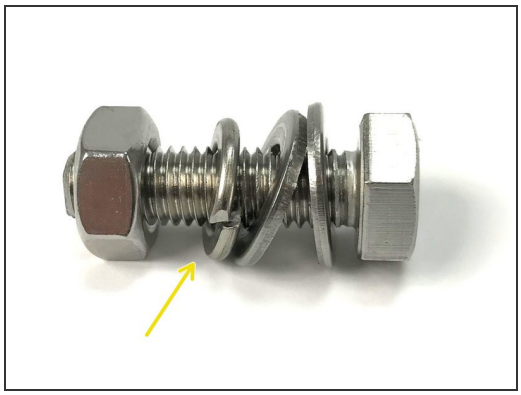
ⓘ Silicone spray may help installation on the chassis hanger rod

- Install the assembled mid-section pipes onto the vehicle. Mount the rubber hanger on the chassis hanger rod as shown

⚠ Verify the bead of the hanger is through the rubber hanger as shown

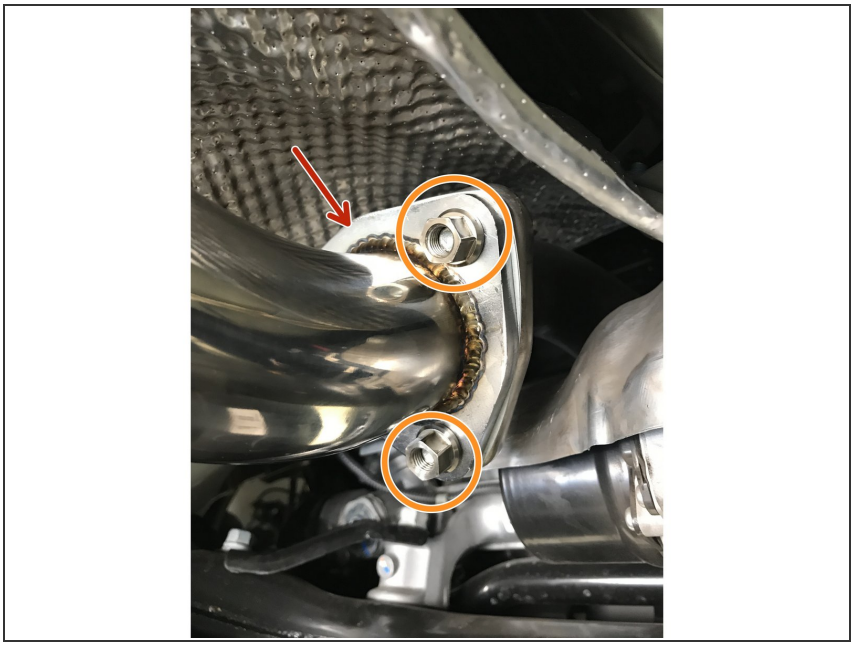
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Step 26 — Gather Parts to Fasten Mid-Section Exhaust

- Locate QTY=3 provided step nuts
- Locate QTY=3 step washers that came with your front pipe for connecting exhaust to 27WON front pipe
- Locate QTY=2 provided tri-bolt gaskets
- Locate QTY=3 provided 35mm length M10 bolts

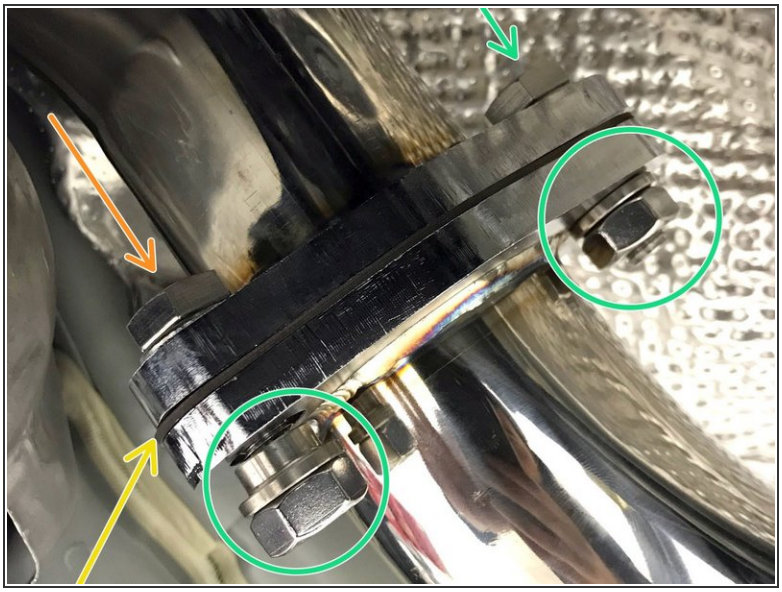
Step 27 — Fasten the Mid-Section Exhaust to OE Front Pipe



- ⓘ If you have 27WON front pipe installed then skip to the next step
- Install the provided tri-bolt gasket onto the OE front-pipe
- Align the studs through the flange then hand tighten the step nuts
- Use a 14mm socket & torque wrench to torque each to 30-40 ft-lbs

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Step 28 — Fasten the Mid-Section Exhaust to 27WON Front Pipe





- ⓘ If you have the OE front pipe installed then skip to the next step
- Install the provided tri-bolt gasket
- Install the provided step washers and nuts as shown
  - ⚠ It is important that the provided step washers are used with the 27WON Front-Pipe Back Exhaust to properly align the flanges
  - ⚠ When using the step washer, **DO NOT** use the flat washer and split lock washer
- Use a 17mm socket & torque wrench to torque to 30-40 ft-lbs

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Step 29 — Fasten the Mid-Section Exhaust To Muffler





- Install the provided tri-bolt gasket between the muffler section and the rear mid-pipe section as shown
- Install the 35mm length M10 bolts

  ⚠ See Step 18 for hardware setup
- Use a 17mm socket & torque wrench to torque to 30-40 ft-lbs

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Step 30 — Fasten the Mid-Section Exhaust



- Use a 17mm socket & torque wrench to torque the middle flange bolts to 30-40 ft-lbs

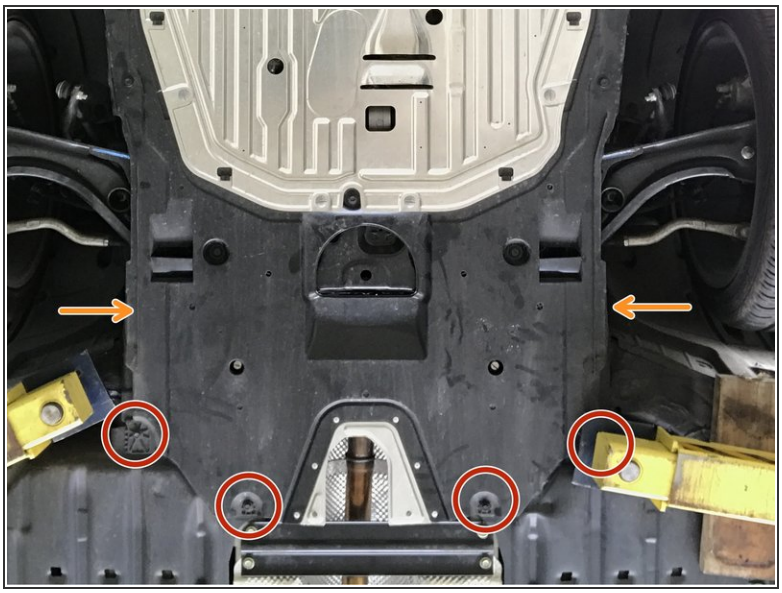
Step 31 — Remove Bubble Wrap and Cardboard

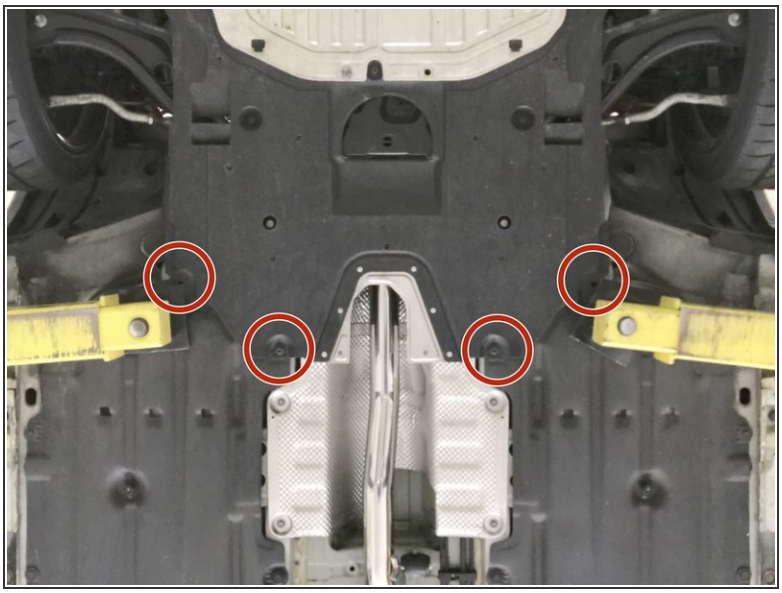


- Remove the protective bubble wrap and cardboard from the 27WON exhaust system as shown

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Step 32 — Re-Install Undertray Part A





- Re-install the 10mm bolts with a 10mm socket & torque wrench. Torque to 8-12 ft-lbs

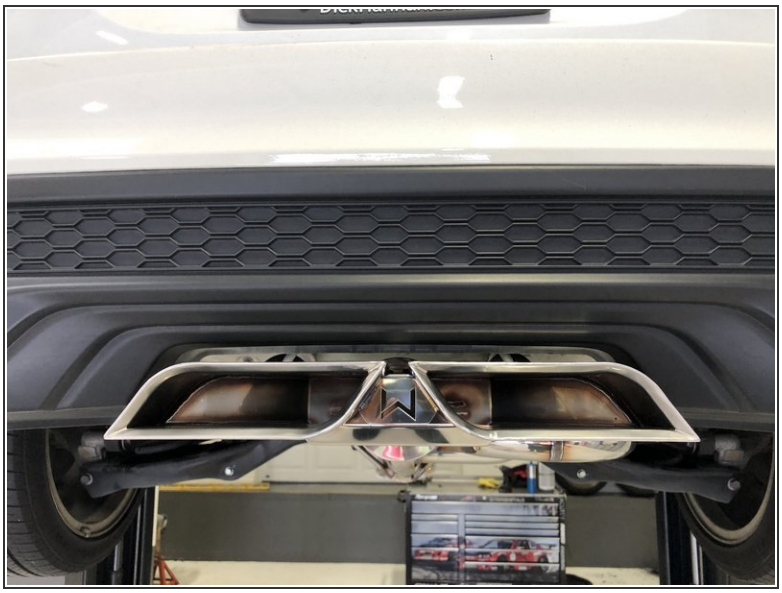
Step 33 — Re-Install Undertray Part B



- Re-install the push clips at each side of the undertray

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Step 34 — Verify Exhaust Tip Alignment





- Stand back from the car and verify that the tips are centered and have ~1/4 inch clearance from the bumper

ⓘ If the tips are not centered try gently shaking the exhaust to settle the rubber hangers

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

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Step 35 — 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 36 — Notes During Break-In

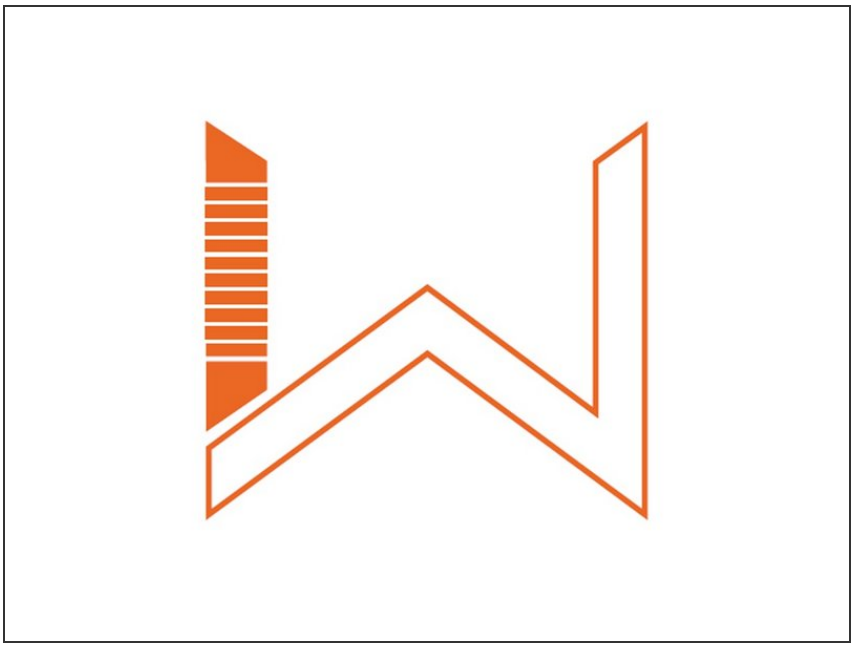




- Exhaust may smoke for the first 30 minutes or so of use. This is normal
- Exhaust sound will settle a bit during the first 100 miles of use. This is normal.
- Your Honda has a cold start system which causes louder exhaust for around 15 seconds when you start your car cold

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Step 37 — I Dare You to REDEFINE



- This completes the installation of your 27WON Performance Exhaust
- We hope you were impressed with your 27WON experience and love your new exhaust 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/2017-civic-si-ca...
- Share your experience using #27WON on Instagram and Facebook

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