

Performance Installs

FK8-6-141-10 Performance Intercooler

Installation Instructions for the 27WON Performance Intercooler Upgrade for 2017+ Honda Civic
Type R

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INTRODUCTION

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

Advisory:

- Working under the vehicle requires a safe and sturdy location for the vehicle to sit on jackstands.
- The engine bay will be hot after recent vehicle operation. Allow the vehicle to cool or use a fan to cool the engine bay before working on the vehicle.
- Removing the bumper is very difficult to do by yourself and can result in scratches to the paint or headlights. We strongly encourage using a friend's help during bumper removal and installation.
- Trimming the rubber OEM intercooler shrouds is necessary for 27WON Intercooler fitment. This is easy and can be done with scissors.



TOOLS:

- [1/4" Ratchet](#) (1)
- [3/8" Ratchet](#) (1)
- [10mm Socket](#) (1)
- [12mm Socket](#) (1)
- [13mm Socket](#) (1)
- [15mm Socket](#) (1)
- [10mm Wrench](#) (1)
- [5mm Allen Key](#) (1)
- [Flat Head Screwdriver - Large](#) (1)
- [Flat Head Screwdriver - Small](#) (1)
- [Phillips Screwdriver - Small](#) (1)
- [Offset Screwdriver](#) (1)
- [Assorted Plastic Interior Trim Removal Tools](#) (1)
- [Scissors](#) (1)
- [Masking Tape](#) (1)
- [Hydraulic Jack](#) (1)
- [Jack Stand](#) (2)



PARTS:

- [FK8 Intercooler](#) (1)
- [FK8 Intercooler Bracket](#) (1)
- [26" Length Weatherstripping](#) (1)
- [M8x1.25x25mm Flange Bolt](#) (2)
- [M10x1.50x30mm Flange Bolt](#) (2)

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

Step 2 — Boost Tubes Installation Instructions



i If you purchased your 27WON Front Mount Intercooler with Silicone Boost Tubes then you'll want to review the installation instructions for those before proceeding

- [PDF Instructions Link](#)
 - tinyurl.com/YXV73D78
- [Dozuki Mobile App](#)
- [Web Browser Interactive Instructions](#)

i If you also received our 27WON FK8 throttle body silicone then please review these install instructions as well before proceeding: [FK8-6-143 Throttle Body Silicone](#)

Step 3 — Disconnect Intake Weatherstripping



- Begin by freeing the OEM weatherstripping from the upper radiator panel
- There are five push clips, roughly marked with red circles in the image, that are removed by pulling upwards on the weatherstripping
- Free the large rubber tab (orange circle) from the corner of the OEM intake duct by pulling upwards

Step 4 — Remove Radiator Panel & Weatherstripping



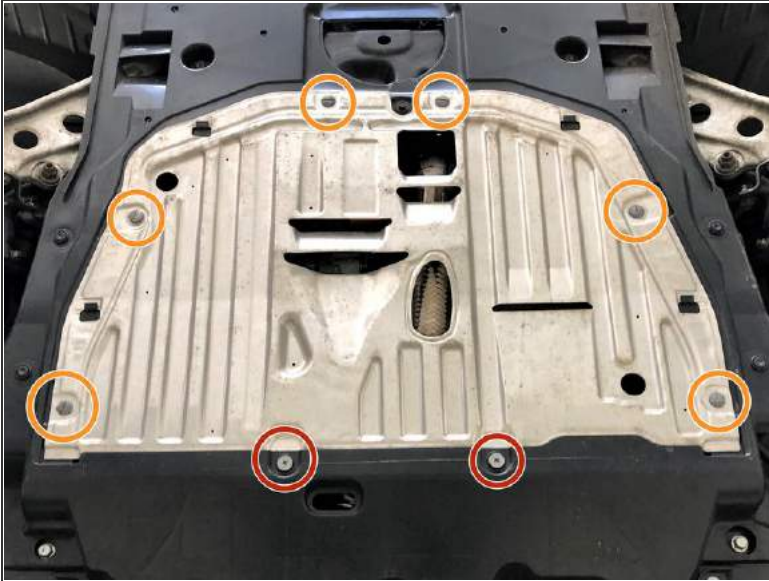
- Remove the eleven push clips that attach the radiator cooling panel to the vehicle using a flathead screwdriver or push clip removal tool
- Remove the upper radiator panel from the vehicle
- Starting on the driver's side, remove the five push clips that connect the hood weather stripping to the bumper using a flathead screwdriver or trim removal tool
 - ⓘ There are three small push clips, one medium push clip, and one large push clip. Note their positions for reinstallation
- ⓘ The small push clips can be difficult to remove with just a screwdriver. We recommend an interior trim removal tools used as shown in image 3
- Remove the similar five clips on the passenger side of the vehicle

Step 5 — Remove Fender Liner Fasteners



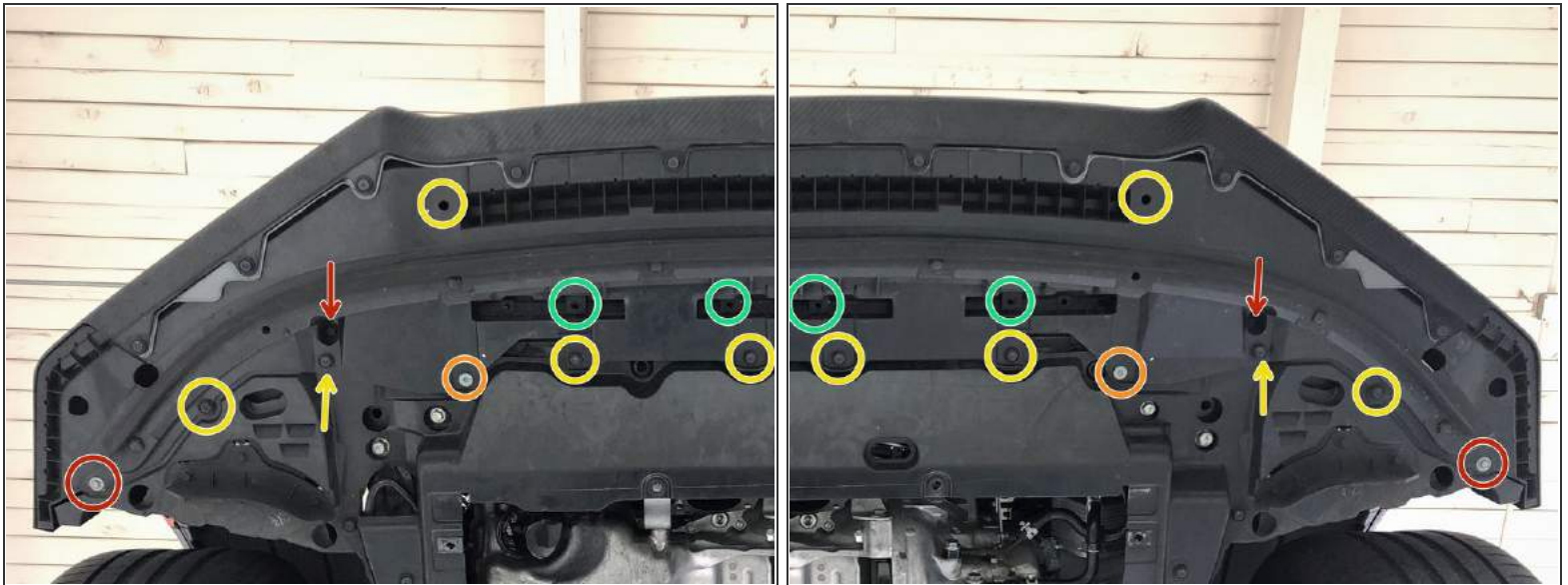
- Remove the hood weather stripping and set it aside
- Raise the vehicle and support with jackstands in the OE recommended locations
- Look into the driver's side fender, in front of the front tire. Remove the four phillips head screws that attach the bumper to the fender liner
 - ⓘ The screws can be difficult to remove due to the tire being in the way. You can turn the wheel or use an offset screwdriver like shown in the third image for easier access
- Remove the similar screws on the passenger side of the vehicle

Step 6 — Remove the Metal Undertray



- Locate the engine undertray for later access to the hot side boost tube
 - Remove the two Phillips head screws using a Phillips screwdriver
 - Remove the six quarter turn screws using a large Flathead screwdriver
 - Slide the metal section rearward and remove it from the vehicle
- ⚠ The metal section of the undertray can be sharp. Use caution when handling it**

Step 7 — Remove Bumper Underside Fasteners



i For clarity, the image of the underside of the car was split into two images. Both images show the center push clips

- From the underside of the front bumper, remove:
 - Four 10mm bolts using a 10mm socket and ratchet (shown with two circles and two arrows)
 - Two 5mm Allen bolts using a 5mm Allen key or socket
 - Nine large push clips using a flathead screwdriver or push clip removal tool (shown with 7 circles and two arrows)
 - Three small push clips using a flathead screwdriver or push clip removal tool

Step 8 — Protecting the Paint during Bumper Removal



⚠ Now is a good time to apply tape to protect your paint from scratches during bumper removal and install

- Apply masking or painters tape around the seams where the bumper meets the body of the car
- i** We did not use protective tape during the rest of our installation for clarity of the installation instructions

Step 9 — Remove OEM Front Bumper - Part 1



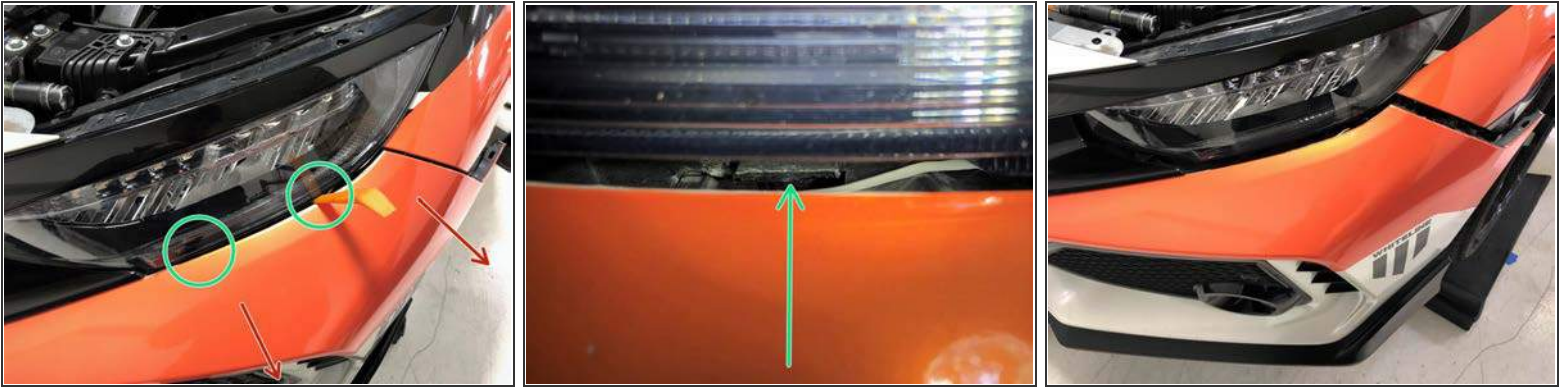
- Using a small screwdriver, push down on the two tabs to release the upper headlight trim from the headlight on the driver's side
- ⚠ These tabs do not require very much pressure and can break if too much pressure is used. Pull outward slightly on the trim and you will feel the "pop" as each clip releases
- The upper headlight trim will not be removed, it will only move outward as shown in image 2
- Repeat these steps on the passenger side

Step 10 — Remove OEM Front Bumper - Part 2



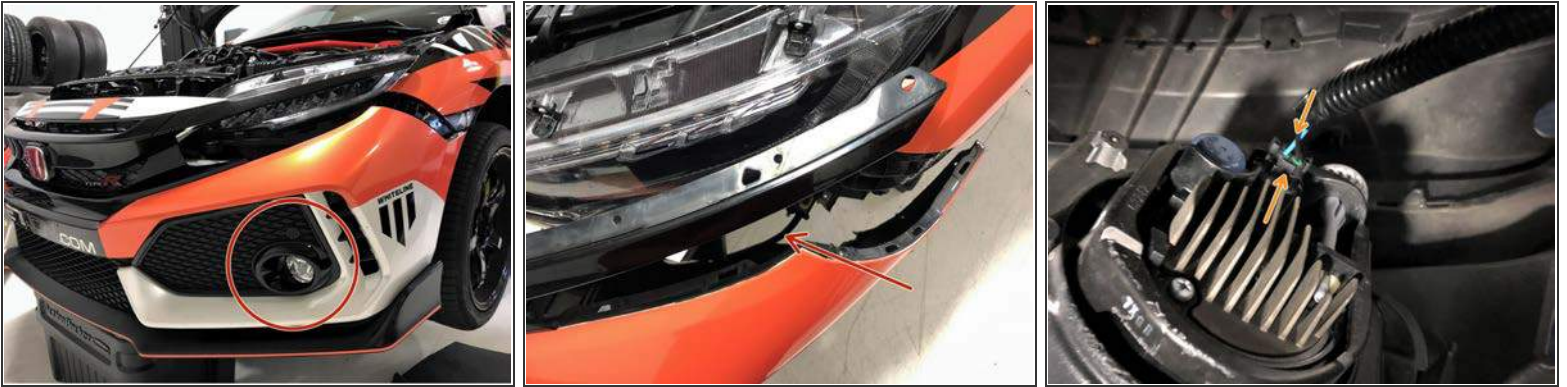
- Starting at the corner of the bumper, pull outward until the corner pops free from the fender
 - ⓘ The first time this is done can require a decent amount of force
- Keep pulling outward on the bumper and use a plastic interior trim tool to release the bumper from the three retaining clips by pushing on the retaining clips
 - ⓘ The third image shows what you are looking for to push on. Take your time and take care to not damage the vehicle
- Repeat these steps on the passenger side

Step 11 — Remove OEM Front Bumper - Part 3



- Moving along the headlight, keep pulling outward slightly
 - Using a plastic interior trim removal tool, lift up the two tabs to release them
 - ⓘ The second image shows what you are looking for to lift upwards. Take your time and take care to not damage the vehicle
- ⚠ This side of the bumper will now be free from the vehicle. We recommend having a friend hold this side of the bumper while the other side is completed**
- Repeat these steps on the passenger side

Step 12 — Remove OEM Front Bumper - Part 4



⚠ The bumper will now only be held on by the fog light wiring

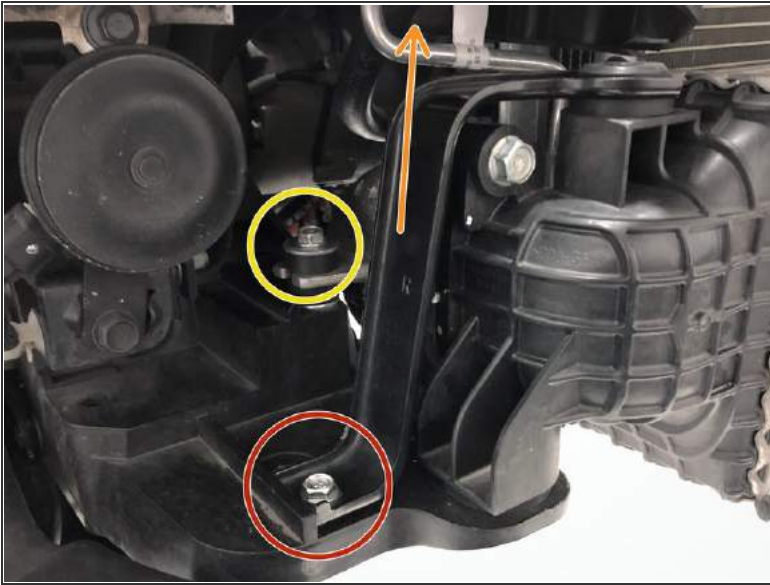
- Pull the bumper forward and locate the wiring going to the fog light on the driver's side
- Reach between the bumper and the rest of the vehicle. Unplug the fog light by squeezing the top and bottom of the plug
- Repeat the prior two steps to unplug the passenger side fog light
- Remove the front bumper from the vehicle and place out of the way where it cannot get scratched or damaged

Step 13 — Remove Hot Side Boost Tube



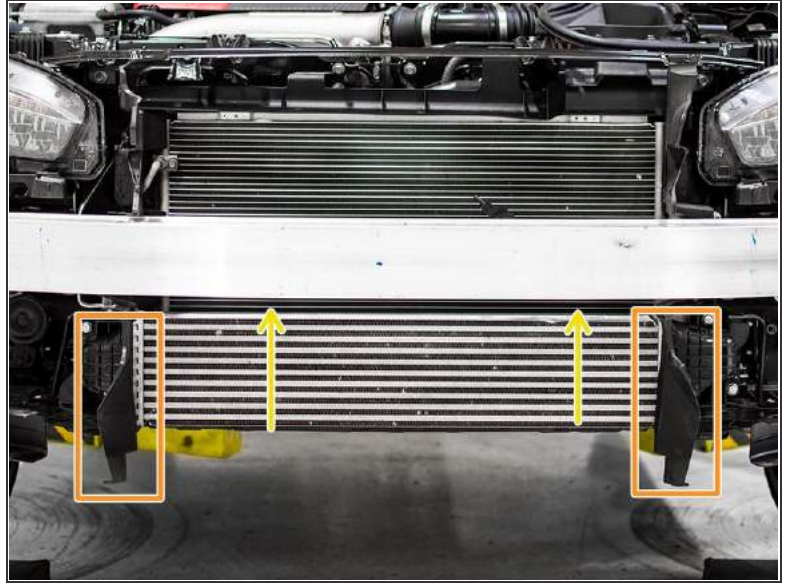
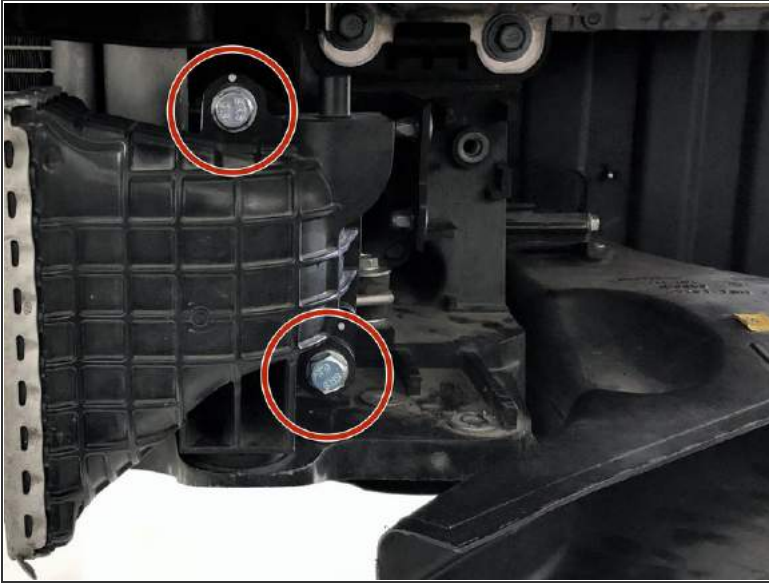
- Locate the OEM hot side boost tube. It's in the general area of the red arrow connecting the intercooler and turbocharger
 - Loosen the clamp that attaches the OEM hot side boost tube to the intercooler using a 10mm socket and ratchet
 - Slide this clamp toward the center of the OEM boost tube and out of the way
 - Pull the OEM boost tube free from the intercooler
- i** The OEM hot side boost tube is shown completely removed for clarity. Only one side needs to be removed for 27WON Intercooler installation

Step 14 — Remove the OEM Intercooler - Part 1



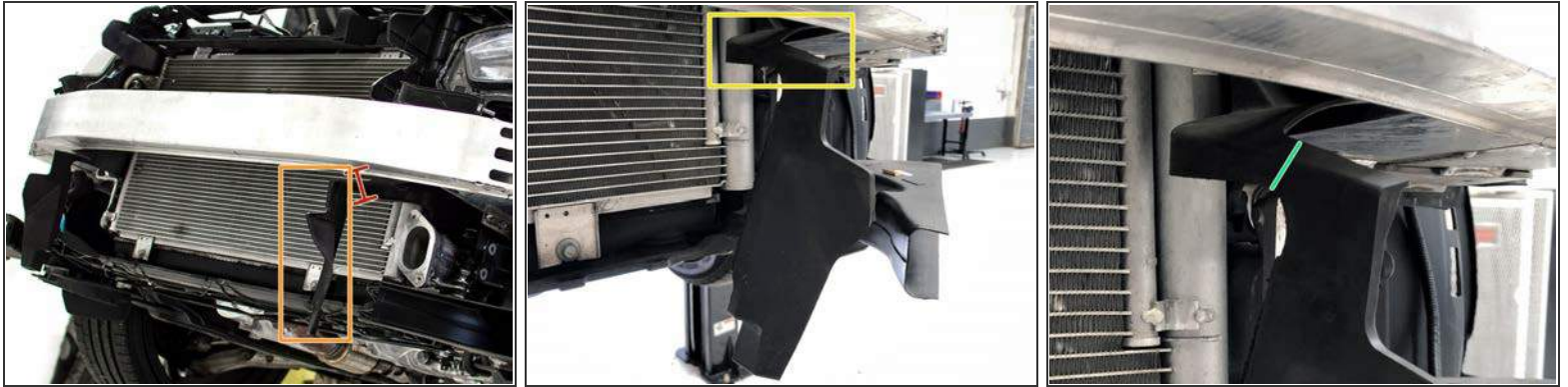
- Remove the 10mm bolt from the OEM hot side mounting bracket on the passenger side of the vehicle using a 10mm socket and ratchet
- Lift the bracket free from the vehicle
- Remove the bolt from the OEM hot side pipe using a 10mm socket and ratchet
- Remove the 10mm bolt from the OEM cold side mounting bracket on the driver's side of the vehicle using a 10mm socket and ratchet
- Lift the bracket free from the vehicle

Step 15 — Remove the OEM Intercooler - Part 2



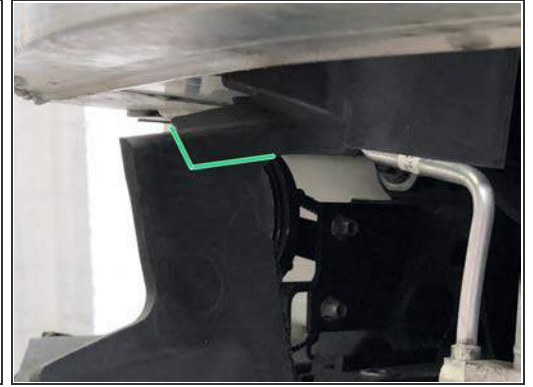
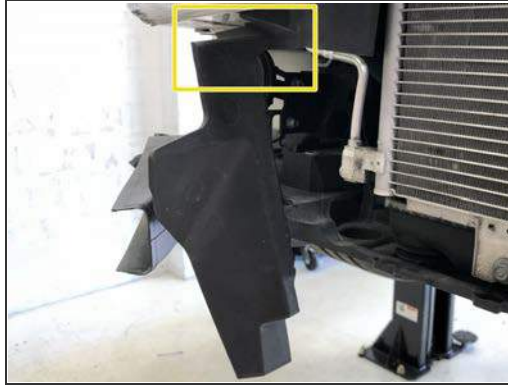
- Remove the two 12mm bolts that attach the OEM intercooler to the OEM cold pipe using a 12mm socket and ratchet
- The OEM rubber intercooler "shrouds" will be hanging in front of the intercooler. Simply fold them out of the way when removing the intercooler
- The intercooler is now free to be removed. Lift upwards to free it from the lower mounts and remove it from the vehicle

Step 16 — Trim the OEM Driver Side Intercooler Shroud



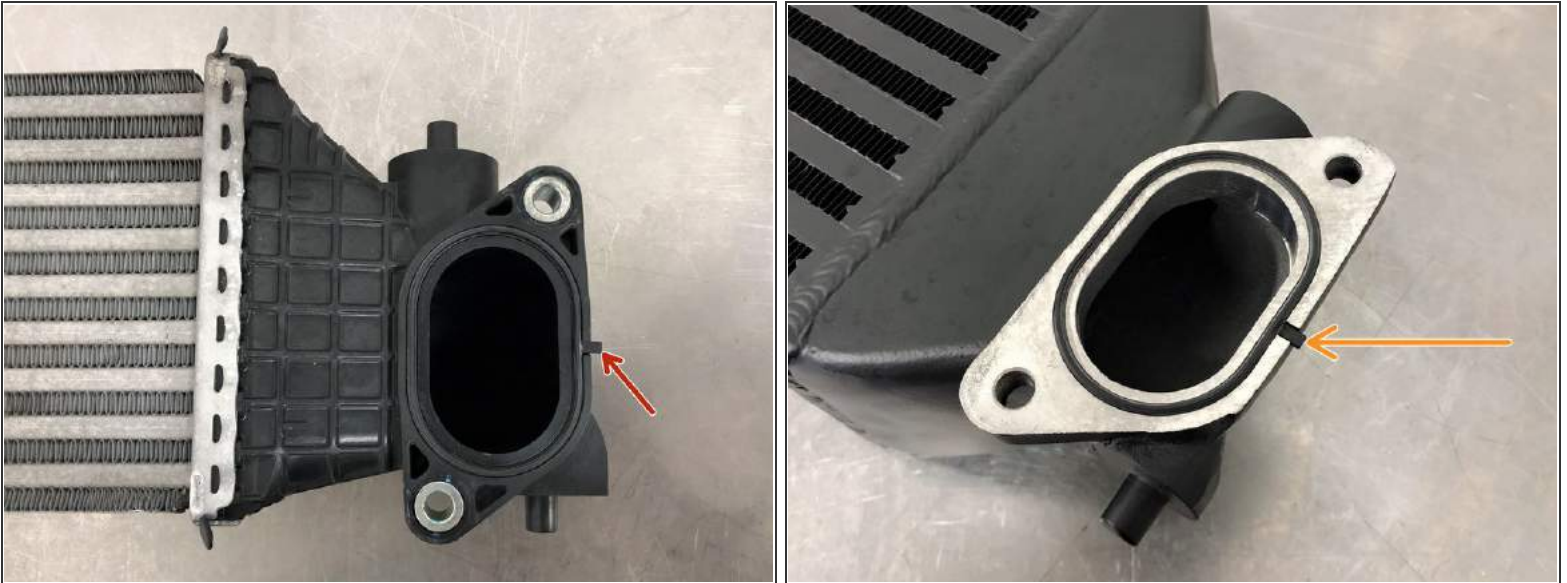
- The OEM intercooler shrouds must be trimmed to fit the much larger 27WON intercooler
 - The section in orange is discarded after trimming
 - Locate the area in yellow on the driver's side shroud
 - Cut along the green line
- i** The remaining shroud will sit on top of the 27WON intercooler slightly. This is intentional to force good airflow through the intercooler and radiator

Step 17 — Trim the OEM Passenger Side Intercooler Shroud



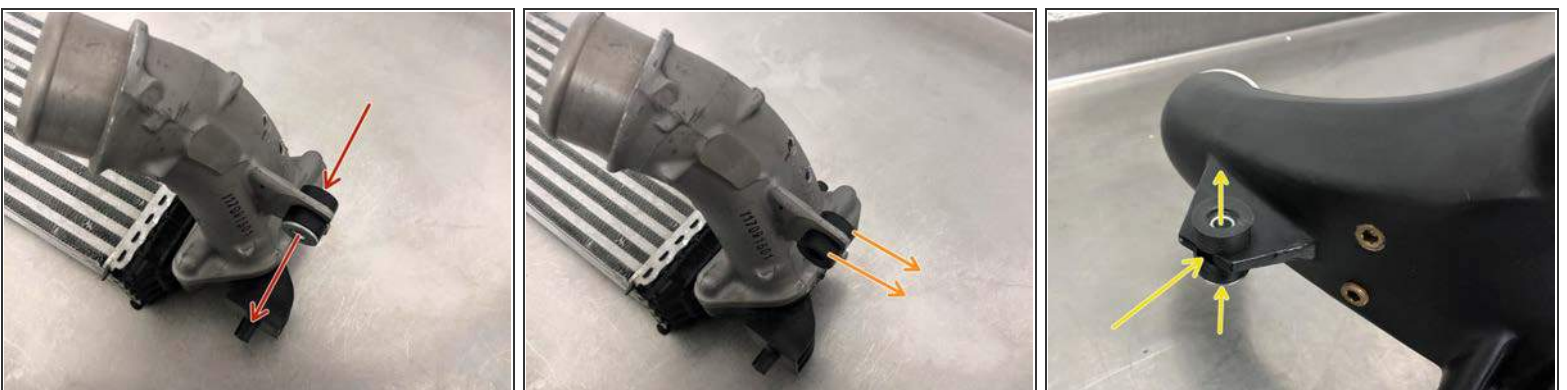
- The OEM intercooler shrouds must be trimmed to fit the much larger 27WON intercooler
 - The section in orange is discarded after trimming
 - Locate the area in yellow on the passenger's side shroud
 - Cut along the green lines as shown
- i** The remaining shroud will sit on top of the 27WON intercooler slightly. This is intentional to force good airflow through the intercooler and radiator

Step 18 — Setup O-Ring for 27WON Intercooler



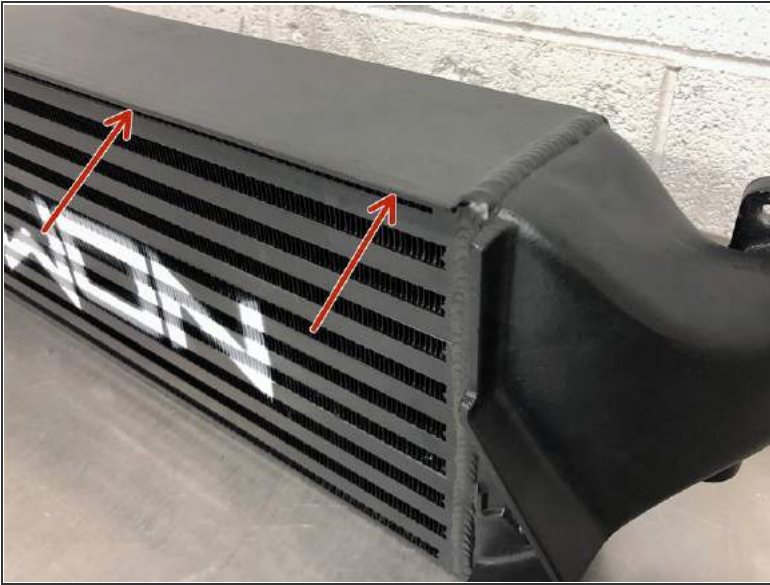
- Remove the OEM O-ring from the cold side endtank of the OEM intercooler by pulling it free using the small tab shown with the red arrow
- Install this O-ring into the cold side endtank of the 27WON intercooler. Ensure the tab is aligned with the cutout groove in the 27WON endtank

Step 19 — Setup Hot Side Mount on 27WON Intercooler



- Remove the metal sleeve from the rubber grommet on the OEM hot pipe
- Squeeze the rubber grommet and slide it out of the OEM hot pipe
- Repeat the previous two steps in reverse to install the rubber grommet in the hot side of the 27WON intercooler

Step 20 — Setup Weatherstripping on 27WON Intercooler



- Locate the supplied weather stripping
- Locate the top edge of the 27WON Intercooler. It sticks out slightly in front of the fins of the intercooler
- Attach the weather stripping to the top edge of the 27WON FMIC as shown. It can be pushed on with a little pressure
- ⓘ You want the round portion of the weatherstripping facing upwards to seal against the OEM crashbar to ensure good airflow through the intercooler

Step 21 — Setup 27WON Intercooler Bracket



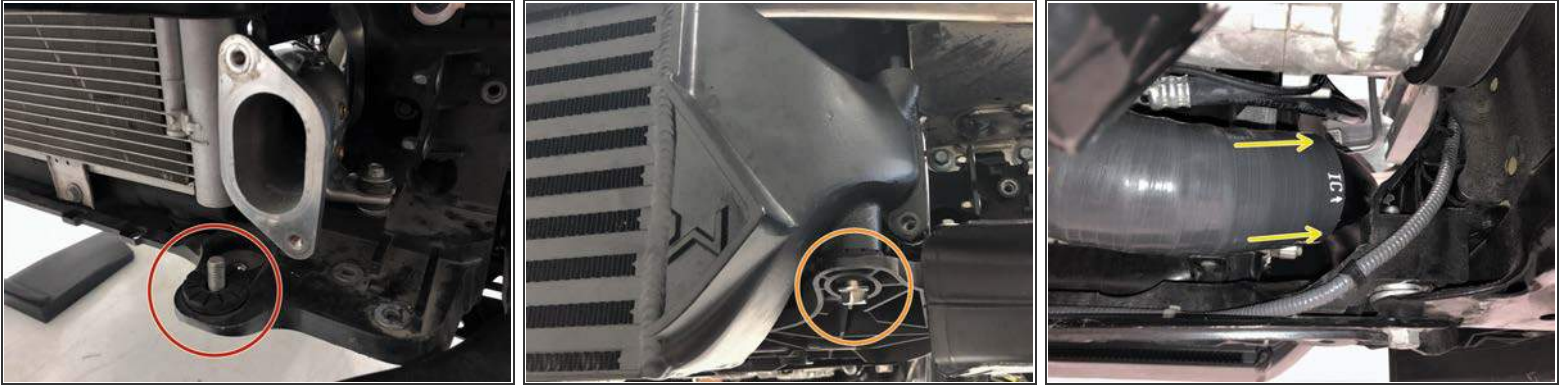
- Locate the OEM hot side intercooler bracket. Look for the R stamped into the bracket
 - Remove the rubber bushing from the hot side intercooler bracket. It can be pushed free from the bracket
 - Install the rubber bushing into the supplied 27WON hot side intercooler bracket. It can be pushed into position, similar to how it was removed
- ⓘ A prototype 27WON bracket is shown. Yours may differ in appearance/color slightly

Step 22 — For EU Model Only: Remove Crash Bumper



- i** This step is for European cars only. Skip this step if your car does not have the crash bumper shown
- EU cars have an extra black crash bar shown by the red arrow
 - This black crash bar holds 3 parking sensors circled in green
 - Undo the 6 black clips for parking sensors harness from the bar shown by orange arrows
 - Remove the crash bar. There will be multiple bolts holding it on
 - Shown is the under side of the crash bar. In the center is a small tab, yellow arrow. Bend back the tab as shown to make room for the 27WON FMIC

Step 23 — Install the 27WON Intercooler - Part 1



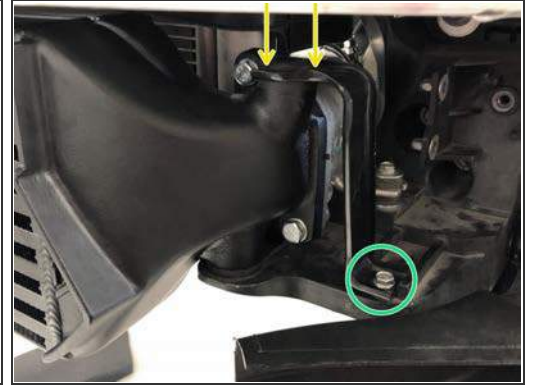
- Start by locating the two supplied M10x1.5x30mm bolts. Have these nearby when lifting the intercooler into the vehicle
- These bolts will attach the intercooler through the lower OEM rubber grommets. The bolts will pass through these mounts as shown for reference in image 1
- Lift the 27WON intercooler into position. Secure the driver's side by threading one of the supplied M10 bolts a few turns into the intercooler
- While holding the intercooler in place, slide the OEM hot side boost tube over the end of the hot side endtank of the 27WON intercooler
- ⓘ The vehicle that was used for installation instructions had 27WON boost tubes installed at the same time. Installation with OEM boost tubes is identical

Step 24 — Install the 27WON Intercooler - Part 2



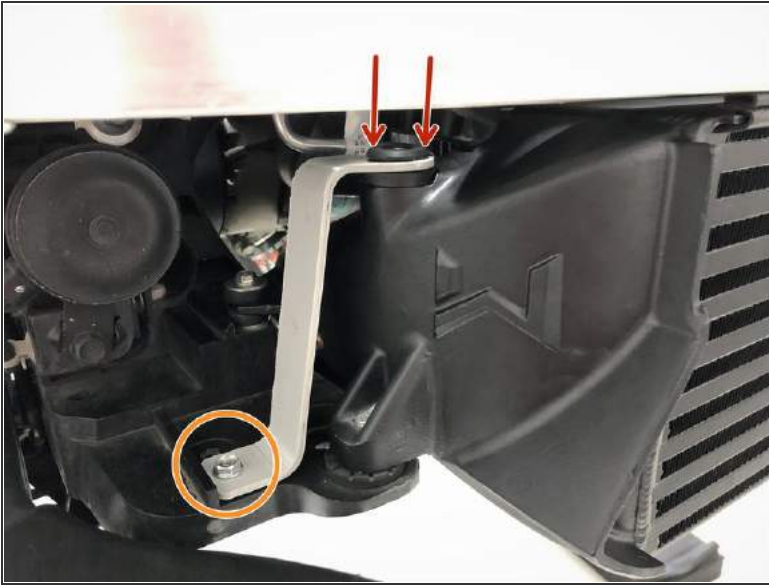
- Secure the passenger's side by threading the other supplied M10 bolt a few turns into the intercooler
- Attach the rear hot side mounting location to the vehicle using the OEM bolt removed earlier. Only thread the bolt in a few turns for now
- Attach the cold side endtank to the OEM cold pipe using the two supplied M8x1.25x25mm bolts. Tighten the bolts evenly so the flanges come together square
- Torque the M8 bolts to 18-22ft-lbs using a 13mm socket and ratchet

Step 25 — Install the 27WON Intercooler - Part 3



- Tighten the bolt at the rear hot side mounting location until snug using a 10mm wrench
- Tighten the two M10 bolts through the bottom OEM mounting grommets until snug using a 15mm socket and ratchet
- Install the OEM cold side bracket onto the 27WON intercooler. The rubber grommet fits over the peg on the endtank
- Secure the OEM cold side bracket using the OEM hardware removed earlier. Tighten until snug using a 10mm socket and ratchet

Step 26 — Install the 27WON Intercooler - Part 4



- Install the 27WON hot side bracket onto the 27WON intercooler. The rubber grommet fits over the peg on the endtank
- Secure the 27WON hot side bracket using the OEM hardware removed earlier. Tighten until snug using a 10mm socket and ratchet
- Secure the hot side boost tube to the 27WON intercooler using the OEM clamp. Tighten until the boost tube buldges slightly using a 10mm wrench or socket and ratchet
- ⓘ 27WON T-bolt clamp shown as they are used with the 27WON boost tubes. OEM similar

Step 27 — EU Models Only: Reinstall the Crash Bumper



- ① This step is for European cars only. Skip this step if your car does not have the crash bumper shown
- With the FMIC installed, reinstall the black crash bar removed earlier
- Reinstall the 6 black sensor harness clips back into the black crash bar
- Make sure the parking sensors are back in position

Step 28 — Reinstall the OEM Front Bumper - Part 1



⚠ We strongly recommend using a friend to help you with bumper reinstall. This makes it much easier to prevent damage to the paint of the vehicle

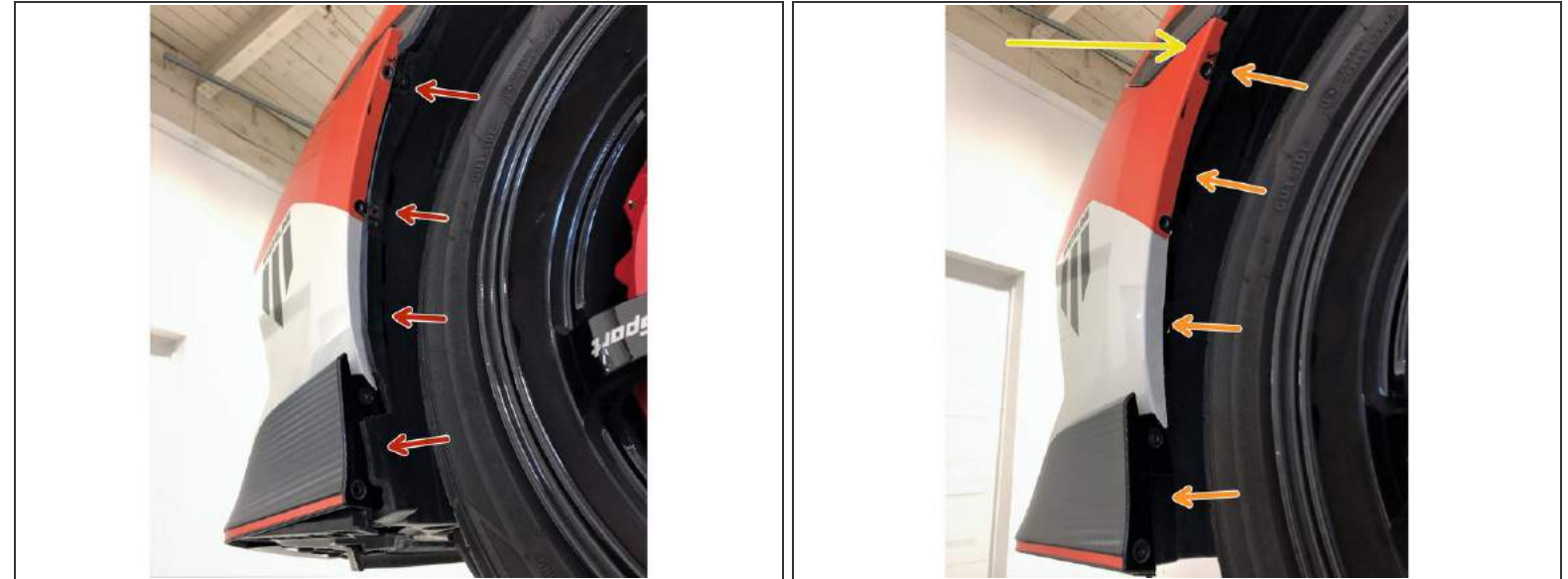
- Lift the bumper close to the front of the vehicle
- Plug in fog lights on both sides of the car by reaching between the bumper and rest of the vehicle as you did in step 11. The plugs will click audibly when fully plugged in

Step 29 — Reinstall the OEM Front Bumper - Part 2



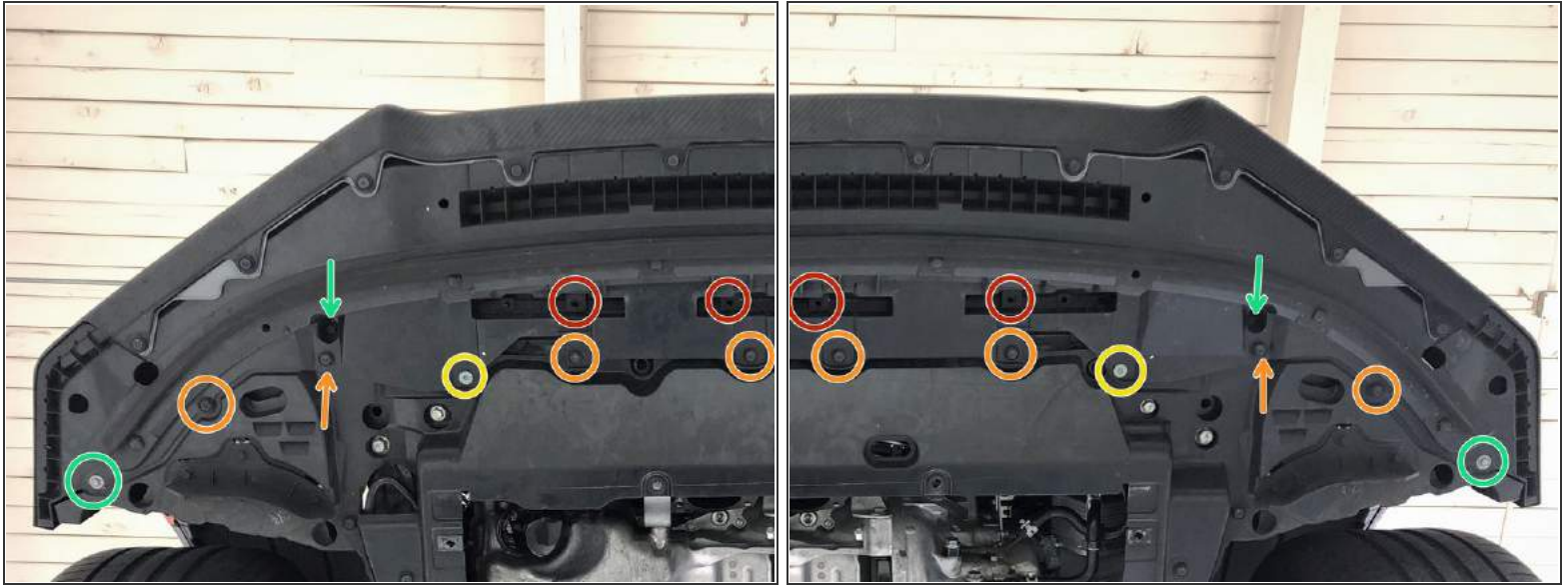
- Start by lifting the bottom edge of the bumper into position first
- Then lift the top of the bumper upwards and inwards to place it on top of the upper bumper support
 - Upper bumper support labeled with yellow arrows
- ⚠ The corners of the bumper can easily get caught during this process. Ensure they do not get caught to prevent damaging your paint
- Starting on the driver's side, work your way from the inner corner (left in image) of the headlight to the corner of the bumper and connect the five clips removed in steps 9 and 10
- ⓘ Leave the corner of the bumper under the marker light free for now as shown
 - Repeat for the other side of the vehicle

Step 30 — Reinstall the OEM Front Bumper - Part 3



- It is common for the fender liner to end up outside of the rear edge of the bumper and front lip as shown in image 1
- Push the fender liner so all parts of it end up inside the rear edge of the bumper/front lip. This is shown completed in image 2
- You can then secure the corner of the bumper below the marker light
- Repeat this step on the other side of the vehicle

Step 31 — Reinstall Bumper Underside Fasteners



i For clarity, the image of the underside of the car was split into two images. Both images show the center push clips

● From the underside of the front bumper, reinstall:

● Three small push clips

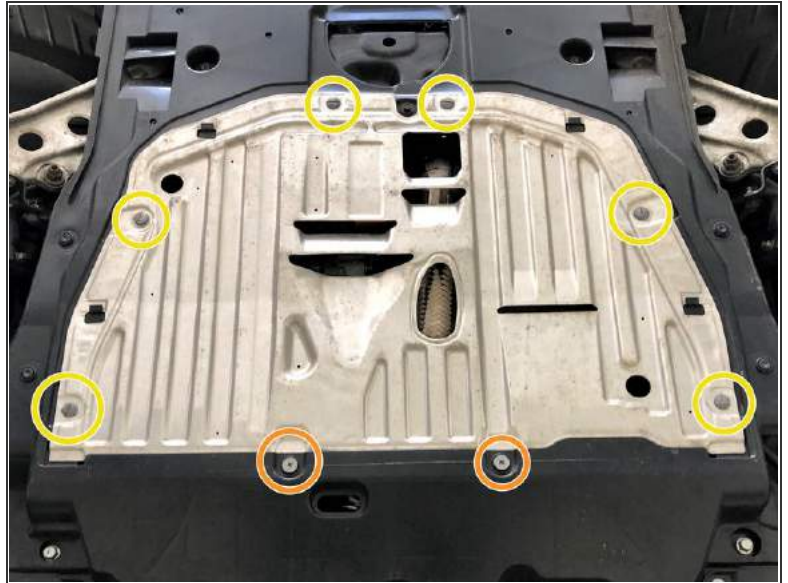
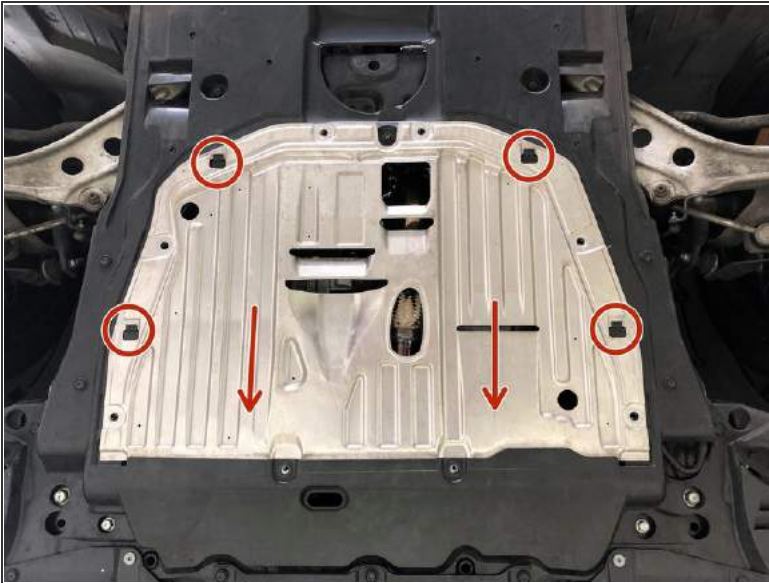
● Seven large push clips

i You will have two large push clips leftover after install

● Two 5mm Allen bolts using a 5mm Allen key or socket. Tighten until snug

● Four 10mm bolts using a 10mm socket and ratchet. Tighten until snug

Step 32 — Reinstall the OEM Metal Undertray



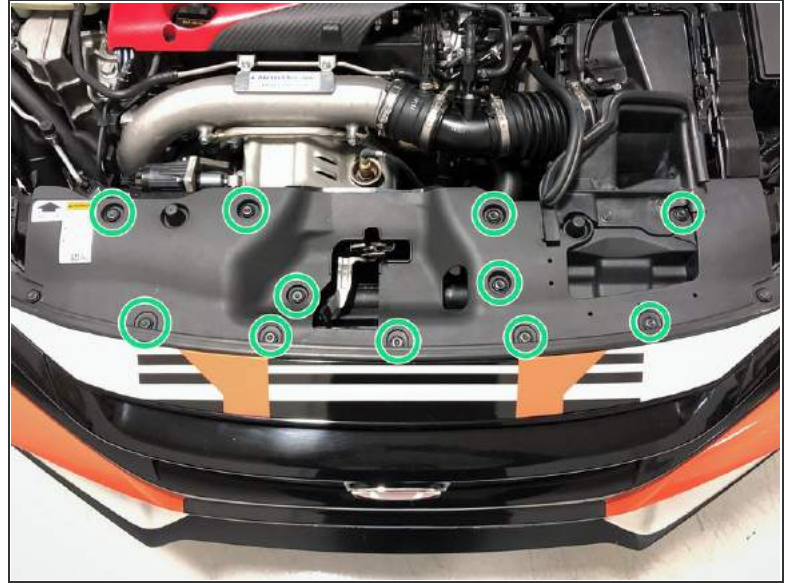
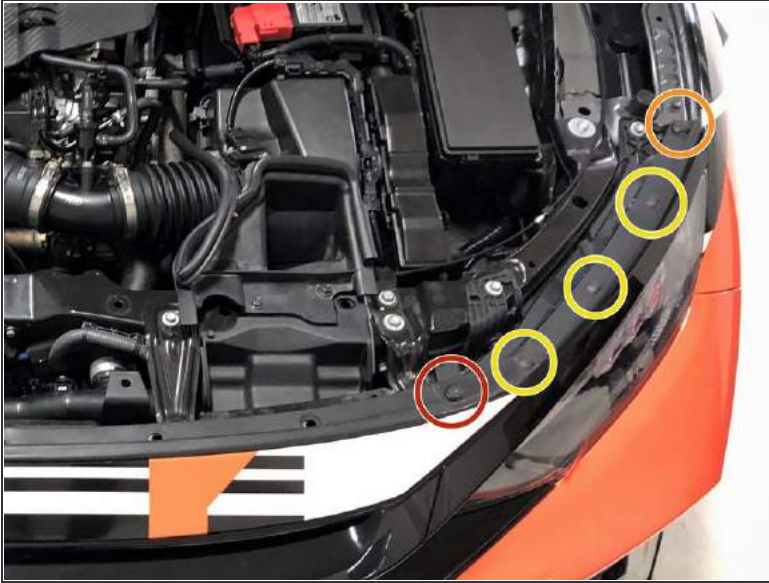
- Lift the metal section of the undertray into position
 - ⓘ The front edge of the metal will fit over the top of the rear edge of the plastic section of the undertray
- To secure, push the skidtray forwards onto the four tabs that will hold it in position
- Reinstall the two Phillips head screws and tighten until snug using a Phillips screwdriver
- Reinstall the six quarter-turn screws and tighten using a large Flathead screwdriver. These will "click" into position when tight

Step 33 — Reinstall Fender Liner Fasteners



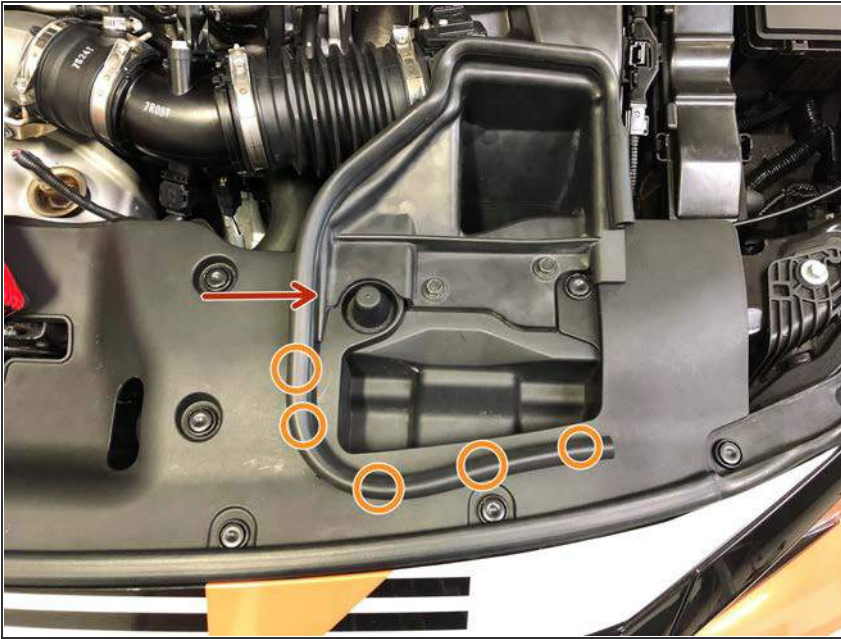
- Secure the bumper to the fender liner using the four OEM Phillips head screws removed in step 4. Tighten until snug using a Phillips screwdriver
- Position the upper headlight trim just above the headlight and gently push it inward to connect the two clips to the headlight
 - ⓘ Often these clips will connect themselves when the bumper is reinstalled. If not, there will be an audible click as they are positioned
- Repeat on the other side of the vehicle

Step 34 — Reinstall Weatherstripping & Radiator Panel



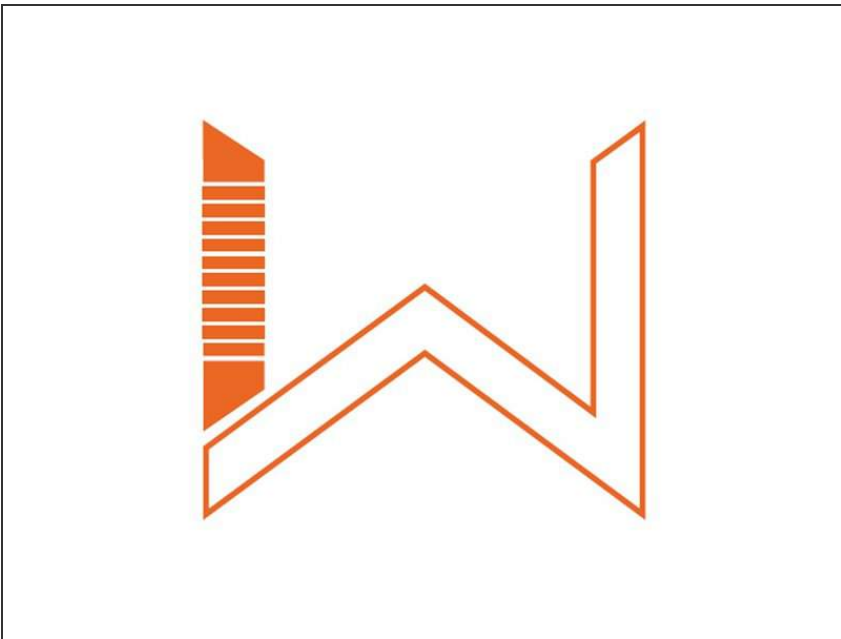
- Replace the OEM hood weather stripping on top of the top edge of the bumper and secure with:
 - One large push clip
 - One medium push clip
 - Three small push clips
- Repeat on the other side of the vehicle
- Reinstall the upper radiator panel and secure with 11 push clips removed in step 3

Step 35 — Reinstall Intake Weatherstripping



- Reinstall the rubber tab in the corner of the OEM air duct onto the upper radiator panel
- Reinstall the weatherstripping onto the upper radiator panel. The five clips will click into place

Step 36 — Check for Boost Leaks



- ① Check for boost leaks.
 - Check for boost leaks at all intercooler and piping connections
 - Once the car is up to temperature, complete a drive in which you can get the engine into high boost
 - If a whistling sound is heard, you may have a small boost leak, check and tighten the connections for the intercooler and piping

Step 37 — I Dare You to REDEFINE



- This completes the installation of your 27WON Performance FK8 Intercooler
- We hope you were impressed with your 27WON experience and love your new Intercooler 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/27won-civic-type...>
- Stay Connected with the latest developments with the 27WON Monthly Newsletter: <https://store.27won.com/27won-newsletter...>
- See the latest Products and Tech Videos from 27WON with a quick Subscribe: <https://www.youtube.com/channel/UCF7uI0N...>
- Share your experience using #27WON on Instagram and Facebook