

27WON

L15-6-308-10 Cold Air Intake

Written By: Dozuki System



INTRODUCTION

In this installation guide we have provided step by step instructions to setup, remove the OEM intake system, and install the 27WON Performance Cold Air Intake.

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.



TOOLS:

- 1/4" Ratchet (1)
- 3/8" Ratchet (1)
- 3/8" Long Extension (1)
- 5.5mm Socket (1)
- 10mm Socket (1)
- 3mm Allen key (1)
- 5mm Allen Key (1)
- 10mm Box-End Wrench (1)
- Flat Head Screwdriver - Large (1)
- Flat Head Screwdriver - Small (1)
- Phillips Screwdriver - Small (1)
- Hydraulic Jack (1)
- Jack Stand (2)
- 8mm Wrench (1)
- 8mm Socket (1)
- Small Needle Nose Pliers (1)
- Torque Wrench (1)



PARTS:

- L15 CAI Airbox (1)
- Airbox Lid (1)
- L15 CAI Long Bracket (1)
- L15 CAI Short Bracket (1)
- L15 CAI MAF Housing (1)
- Silicone Coupler - MAF to TIP (1)
- Silicone Coupler - Airbox to MAF (1)
- Air Filter (1)
- T-Bolt Clamp - 67-75mm (3)
- T-Bolt Clamp - 86-94mm (1)
- T-Bolt Clamp - 108-116mm (1)
- Standoff Rubber Isolator - M6x1.0 (1)
- SS Hex Head Screw - M5x0.8x12mm (4)
- SS Flange Button Head Screw - M5x0.8x16mm (4)
- SS Flange Nut - M6x1.0 (1)
- Rubber Dampener M6x1.0 (1)
- SS Hex Head Bolt- M6x1.0x8mm (1)

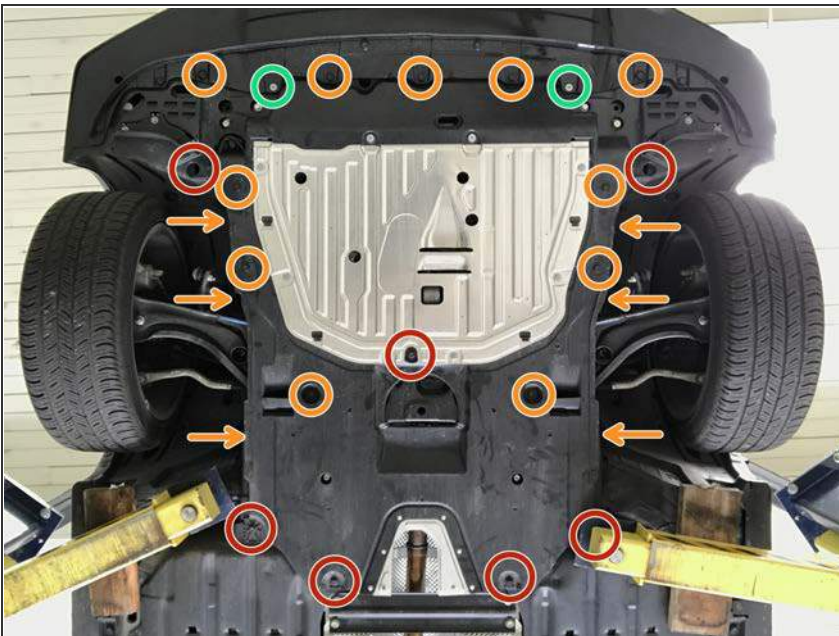
Step 1 — Getting Started



- 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

⚠ **Aftermarket transmission coolers may not fit with our intake**

Step 2 — Removing the Skidtray Part A



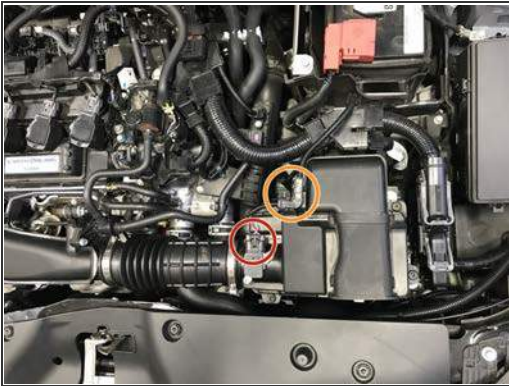
- Locate the engine under tray to gain access to the OE lower airbox
- Use 5mm Allen Key to remove the two (2) bolts shown in green circles
- Use 10mm socket & ratchet to remove the seven (7) bolts shown in red circles
- Use a flathead screwdriver to remove the seventeen (17) plastic push-clips. **Orange arrows identify the push-clips in described in the next step (3)**

Step 3 — Removing the Skidtray Part B



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

Step 4 — MAF Sensor Wire Removal




- Disconnect the wiring harness from the MAF Sensor
- Remove the wire cover from the airbox
 - Use needle nose pliers to pinch the clips then pull the cover off the airbox

Step 5 — MAF Sensor Wire Disassembly Part A



- The MAF wire cover consist of two halves that are held together by push lock clips. These will need to be unlocked to remove the cover

 Step 6 will show how to pull apart MAF wire cover

Step 6 — MAF Sensor Wire Disassembly Part B



- Using small flathead screwdriver, gently pry between the square loop and the prong, then pry the prong out of the loop

⚠ It takes very little force to insert the flathead screwdriver and pry loose, try not to break the square loop

- With all four prongs unlocked the cover should open as shown
- Pull the wire out of the cover and wrap the exposed section in electrical tape

Step 7 — Remove MAF Sensor



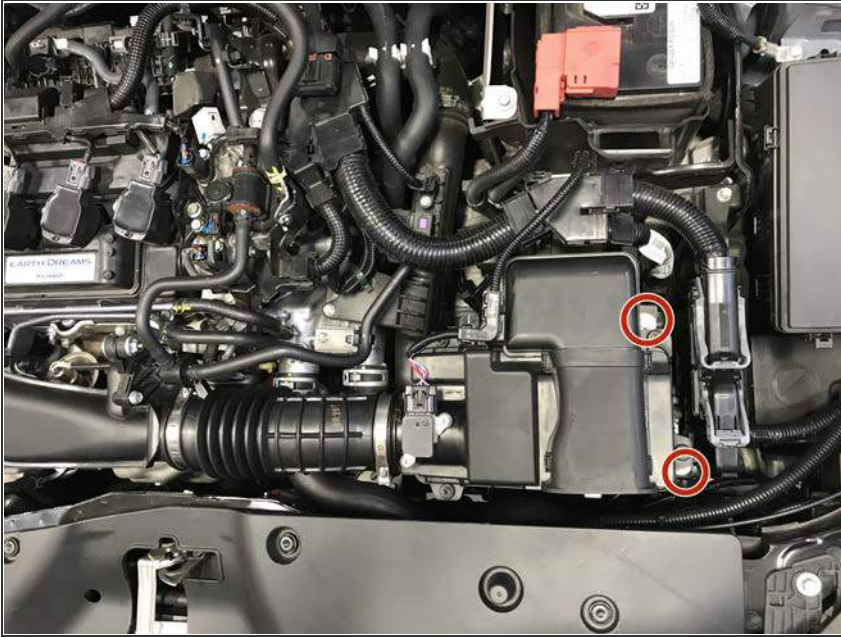
- Use a small Phillips screwdriver to remove the two screws
- Remove the MAF sensor from the airbox and reinstall the OE screws into the airbox, they are not used in the 27WON CAI
- ⓘ Base Model MAF Sensor shown, SI MAF Sensor removal is same

Step 8 — Loosen Hose Clamp



- Use a 5.5mm socket to loosen the hose clamp
- ⓘ A small phillips screwdriver can be used, but is not recommend because the hose clamp head strips easily

Step 9 — Remove Mounting Bolts



- Use a 10mm socket and long extension to unthread the two silver mounting bolts
- ⓘ You can leave the bolts loose in position during airbox removal

Step 10 — Removing the Upper Airbox Assembly



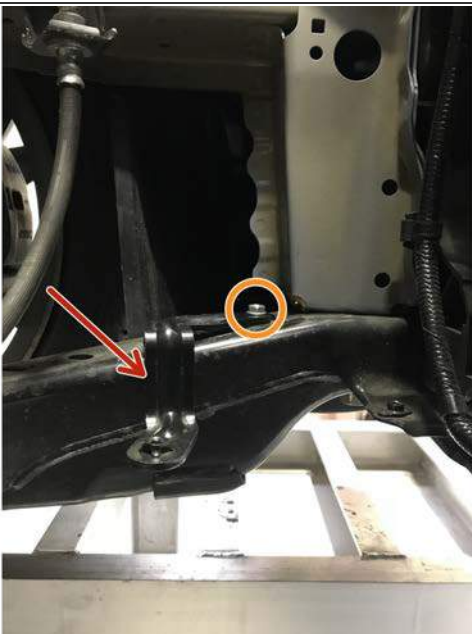
- Pull the hose off the turbo inlet pipe in the direction of the arrow
- With the hose loose, remove the entire airbox from the engine bay
- The result will look as shown in the second image

Step 11 — Remove Lower Airbox Assembly



- From under the vehicle locate the two bolts, use a 10mm socket & ratchet to remove the two bolts
- Remove the lower airbox assembly from the vehicle
- The result will look as shown in the second image

Step 12 — Removing the Lower Airbox Bracket



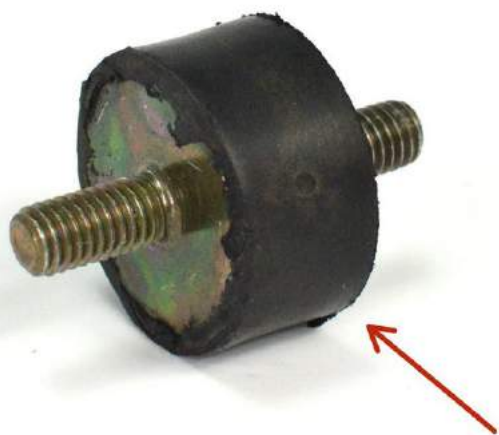
- From under the vehicle, locate lower airbox assembly mounting bracket
- Use a 10mm socket & ratchet to remove the bolt
- Remove the bracket from the vehicle

Step 13 — 27WON Cold Air Box Inlet Location



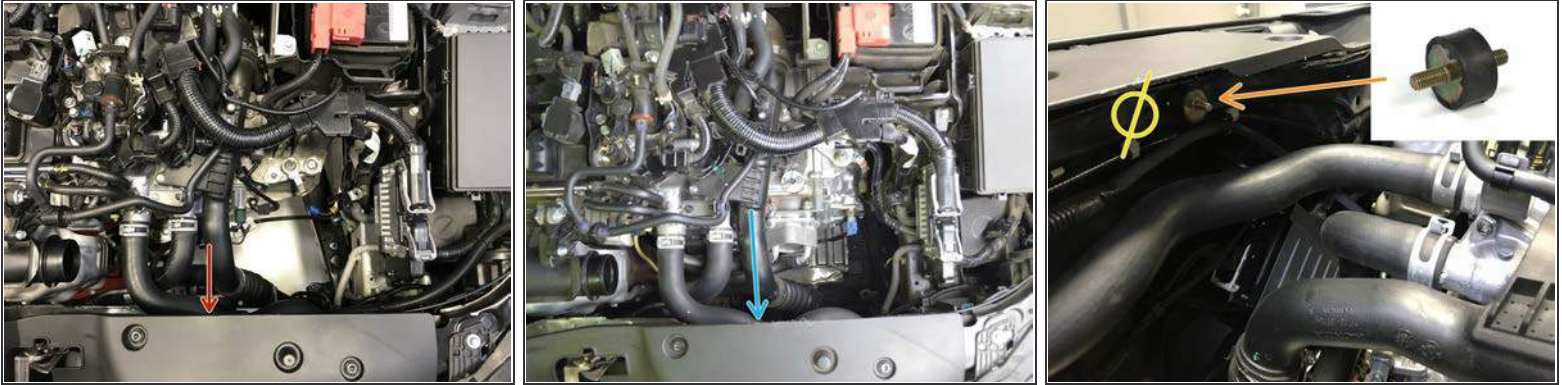
- i** The red square shows where the lower inlet of the airbox will sit in the engine bay and fender well

Step 14 — Locate Rubber Isolator Standoff and Dampener



- Locate the provided rubber isolator standoff for step 15
- Locate the provided rubber dampener for step 16

Step 15 — Install Rubber Isolator - Core Support Mount



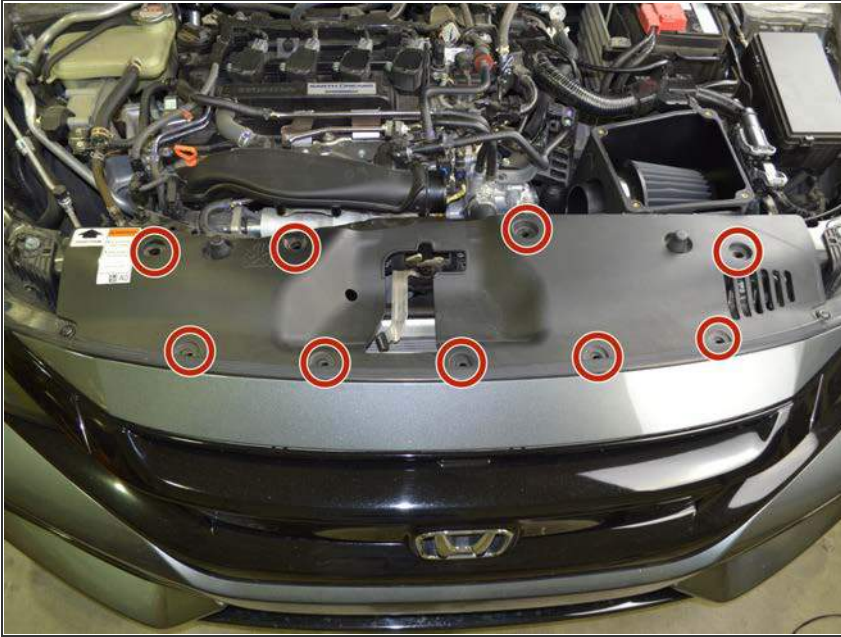
- Locate threaded hole in the core support for manual transmissions
 - Locate threaded hole in the core support for Automatic transmissions
 - Install the rubber isolator standoff in the threaded hole closest to the turbocharger. Tighten hand tight using your fingers
- ⓘ There are two threaded holes located in the core support, use the hole closest to the turbocharger. Don't use the hole marked in yellow

Step 16 — Install Rubber Dampener - Chassis Mount



- Locate threaded hole in the bracket for manual transmissions
 - Locate threaded hole in the bracket for Automatic transmissions
 - Install the rubber dampener in the threaded hole found in the bracket, tight hand tight with fingers
- ⓘ The bracket is mounted to the chassis rail next to the ECU

Step 17 — Remove Plastic Guard



- Carefully pry the 9 plastic clips open with a flat head screw driver

⚠ Clips are fragile and can easily break if too much force is applied

Step 18 — Removing OE Rubber Mount



- Locate the OE Airbox Assembly
- Identify one of the OE rubber mounts and remove the OE bolt (the bolt should be loose in the mount)
 - ⓘ Keep this bolt, it will be used later
- Press the metal collar out of the rubber mount with your hands.
- Pinch the rubber mount together then remove the rubber mount from the OE airbox assembly

Step 19 — Locate Provided Brackets & Button Head Bolts



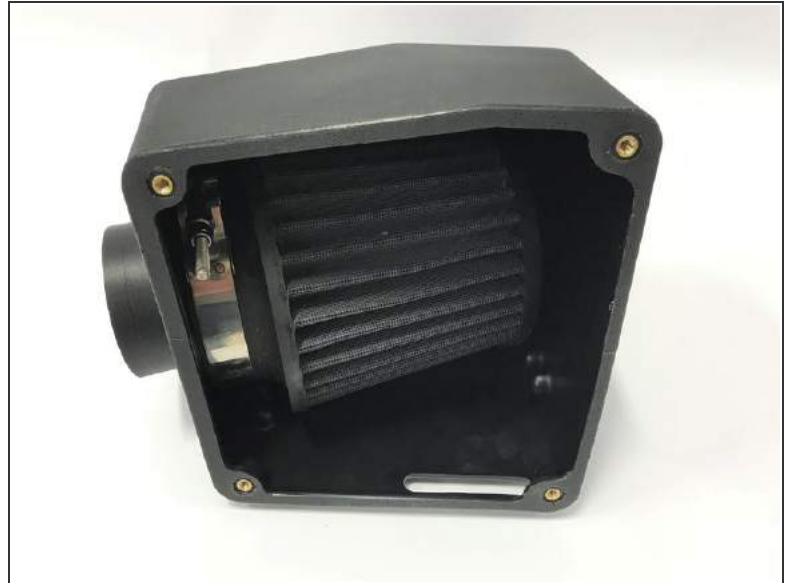
- Locate the Long Bracket
- Locate the Short Bracket
- Locate QTY=4 M5x0.8x**12mm** Hex Head Bolts

Step 20 — Long Bracket Assembly



- Install the OE rubber mount and steel collar as shown

Step 21 — Remove the 27WON Airbox Lid



- Use a 3mm Allen Key to remove the four flanged button head bolts holding the lid on
- Remove the protective cover on the lid and set the lid aside on a non-abrasive surface
 - ⚠️ Unwanted scratches could occur if lid is not handled with care
- With the lid removed you now have access to the air filter and the inner airbox mounting location

Step 22 — Long Bracket Installation



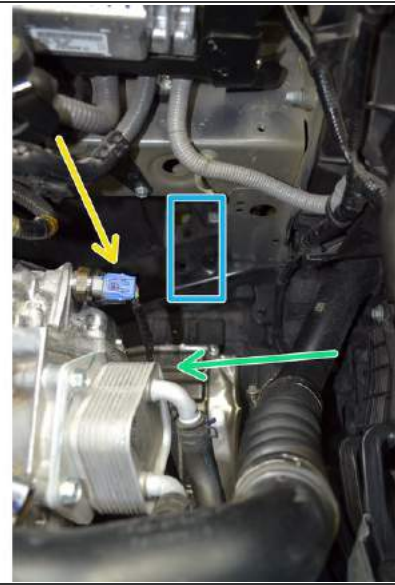
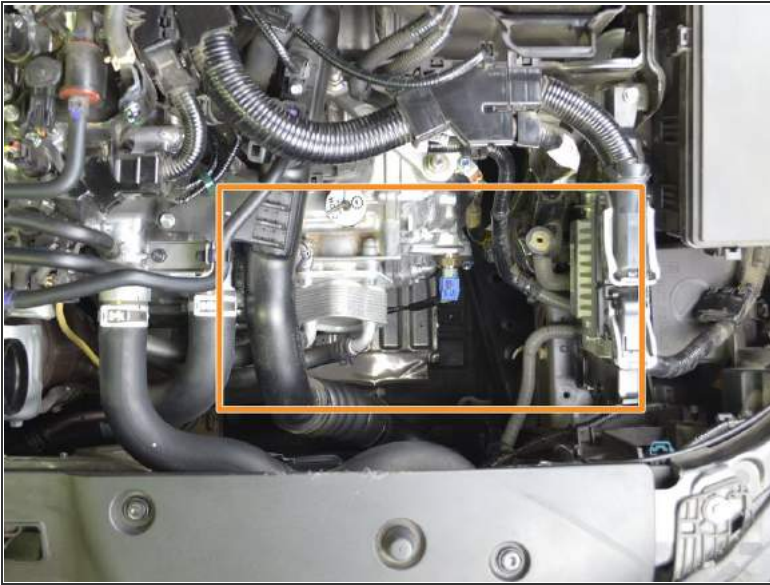
- Using a 8mm socket and ratchet, install the bracket as shown
- Torque bolts to 24-48 in-lbs

Step 23 — Locate Hardware for Airbox Installation



- Locate the OE airbox mounting bolt
- Locate the provided QTY=1 M6x1.0 Flange Nut
- Locate the provided QTY=1 M6x1.0 Hex Head Bolt

Step 24 — Check Clearances in engine bay (Automatic Transmission Only)

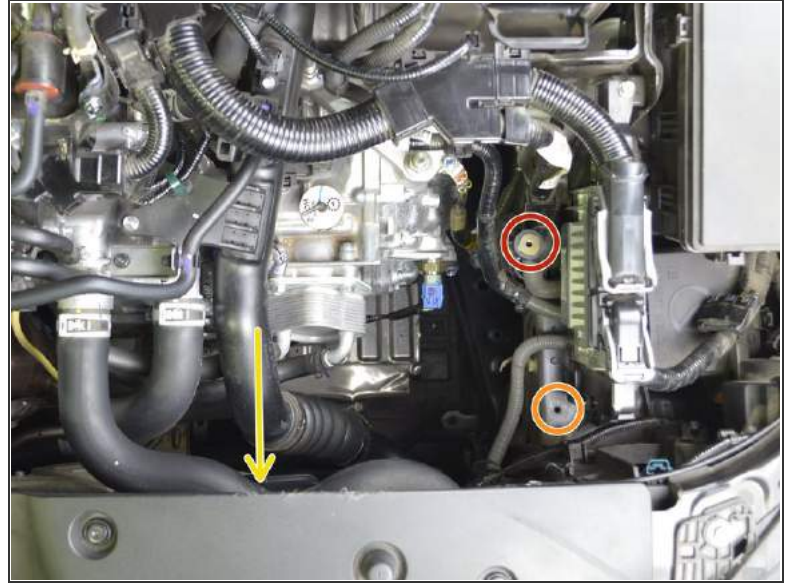
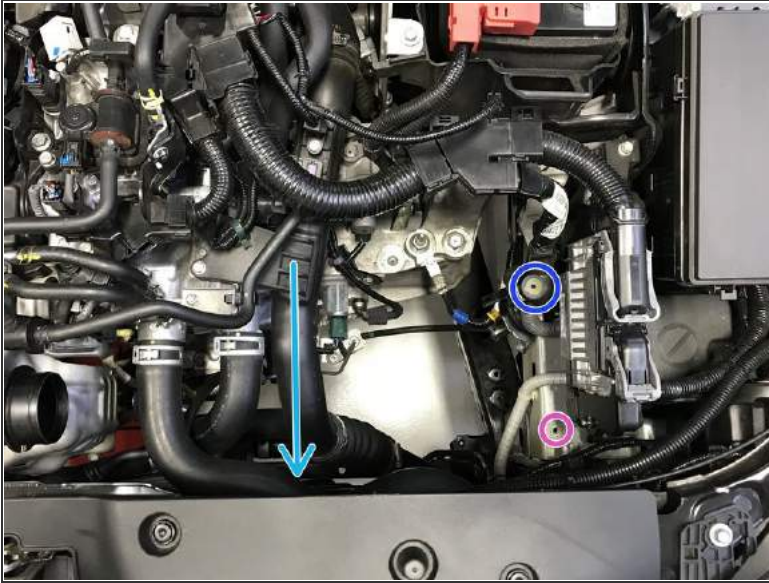


⚠ This Clearance warning applies to vehicles with automatic transmissions. Skip step if vehicle has a manual transmission.

- Inside the orange box there are multiple tight clearances due to the CVT.
- Be careful not to run into this sensor. The airbox will clear the sensor but carelessness when inserting the box could damage the sensor
- The bottom of the airbox fits right into this square opening
- Be careful not to run into the transmission cooler. The airbox will clear the cooler but carelessness when inserting the airbox could damage the airbox

⚠ Aftermarket transmission coolers may not fit with our intake

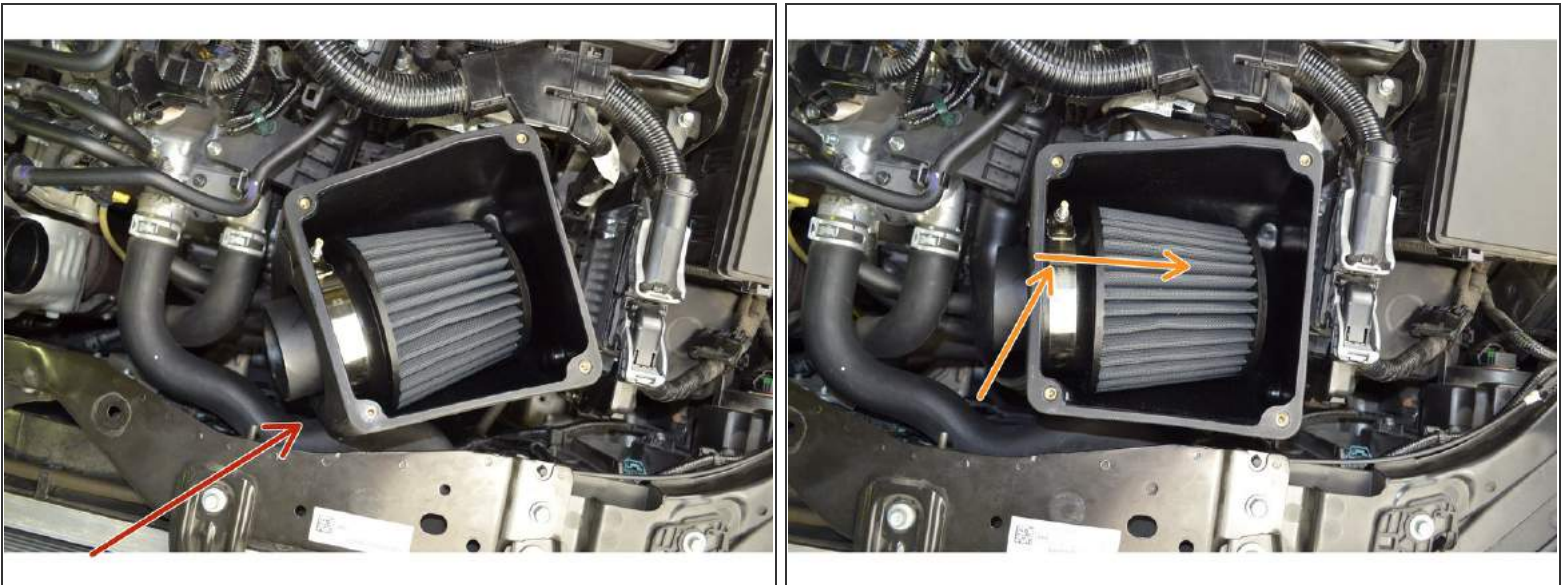
Step 25 — Locate Airbox Mounting Locations



i Before positioning the 27WON airbox into the engine bay, please identify the correct mounting locations

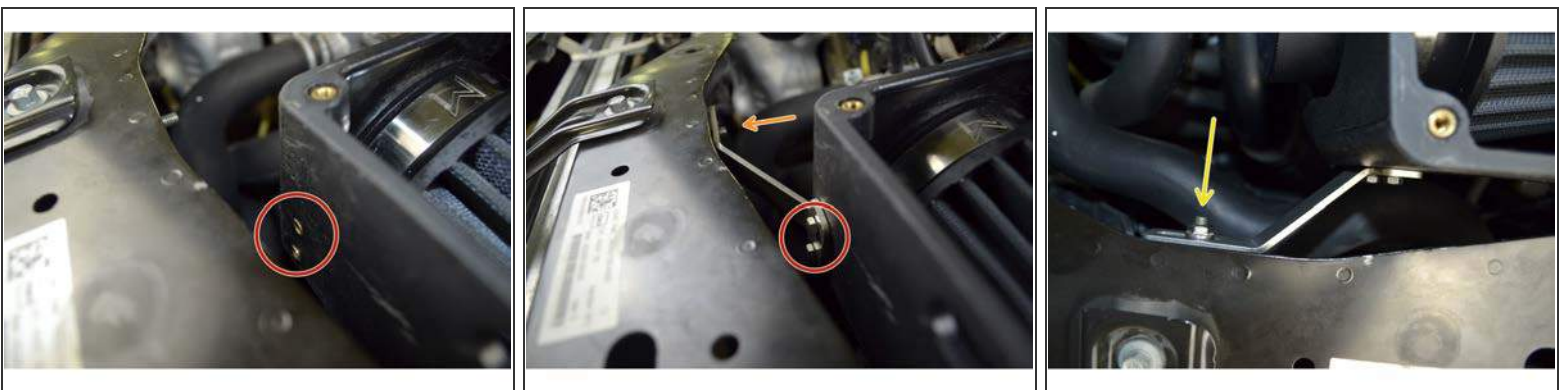
- Manual transmission inner airbox mounting point
- Manual transmission long bracket mounting point
- Manual transmission short bracket mounting point
- Automatic transmission inner airbox mounting point
- Automatic transmission long bracket mounting point
- Automatic transmission short bracket mounting point

Step 26 — Airbox Installation into Engine Bay Part A



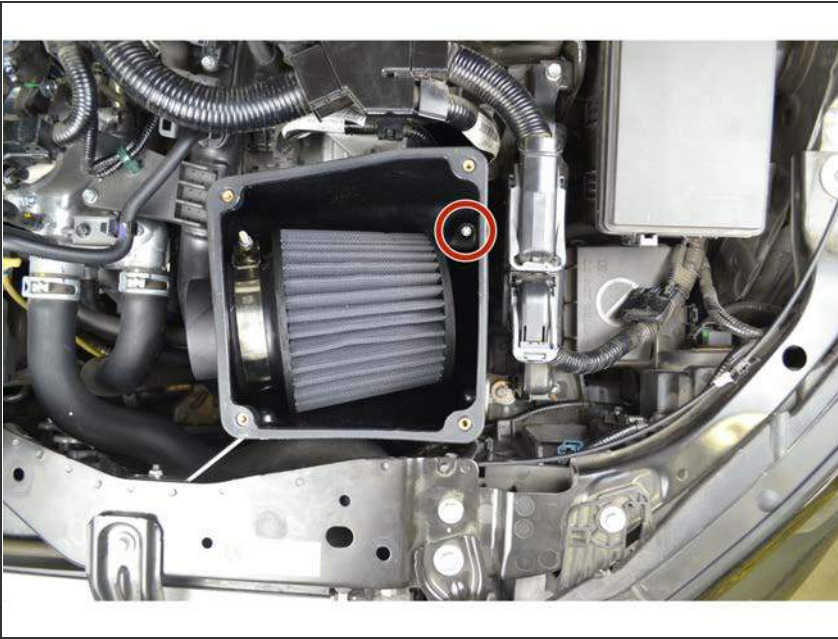
- Lower the 27WON airbox into the engine in the orientation shown.
- Swivel the airbox into position

Step 27 — Airbox Installation into Engine Bay Part B



- Now that the airbox is in position. Attach the provided short bracket to the airbox with (2) M5x0.8X12mm hex head bolts and a 8mm wrench
- Aline the slotted end of the short bracket onto the rubber isolator
- Thread the provided M6x1.0 flange nut onto the rubber isolator. The nut should be loose enough to allow the airbox to still slide within the slotted hole

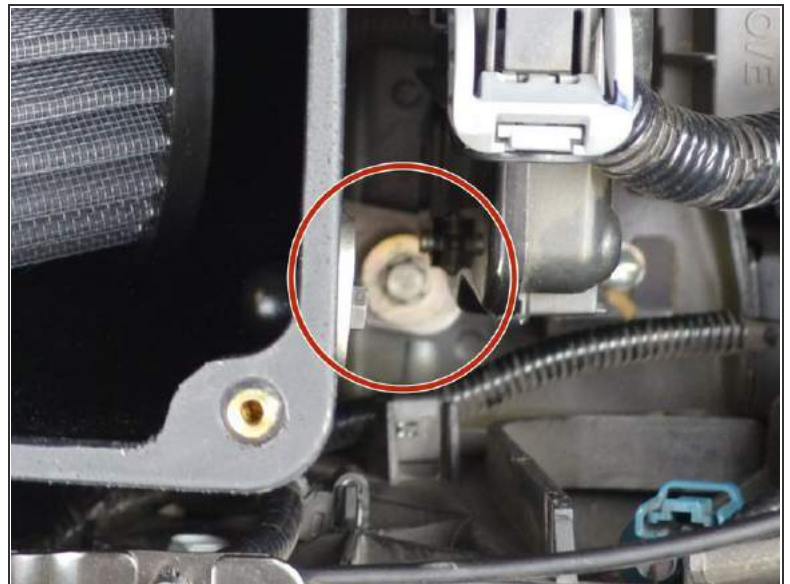
Step 28 — Airbox Installation into Engine Bay Part C



- Aline the inner hole with the hole in the rubber dampener and insert the provided hex head M6x8mm bolt. Tighten using a 10mm socket with an extension and a ratchet
- Tighten the bolt to 12-24 in-lbs

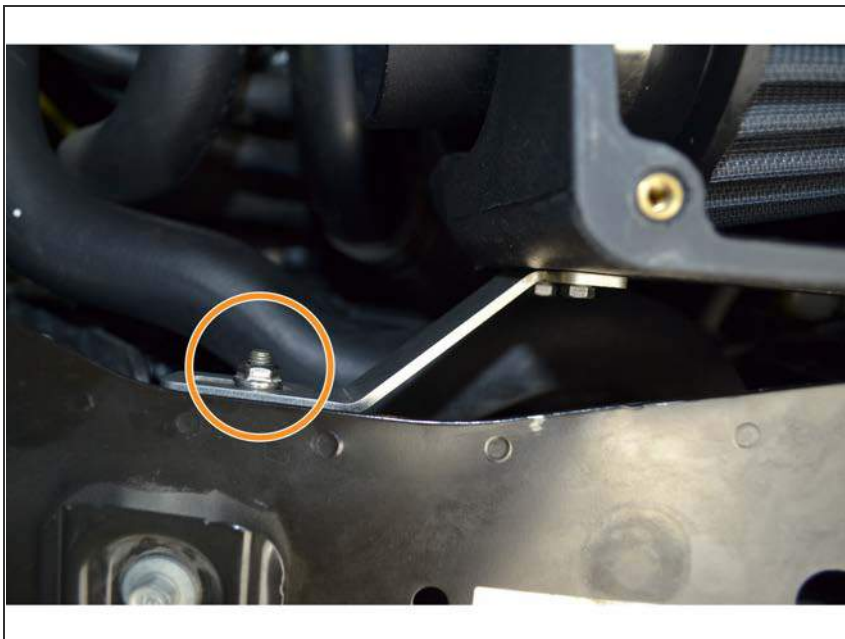
⚠ Do not over tighten the bolt. This could damage the airbox.

Step 29 — Airbox Installation into Engine Bay Part D



- Aline on the Long bracket with the threaded hole in the chassis
- Insert the OE bolt into the long bracket
- Tighten with a 10mm socket with extension and ratchet, Torque the OE bolt in the long bracket to 36-48 in-lbs

Step 30 — Airbox Installation into Engine Bay Part E



- Tighten the M6x1.0 flange nut on the rubber isolator using a 10mm socket and ratchet to 24-36 in-lbs

Step 31 — Install Airbox Lid



- Place the airbox lid onto the airbox
- Install the four M5x0.5x16mm flanged button head bolts, Tighten the bolts to 12 in-lbs

⚠ The lid can crack if significantly over-tightened.

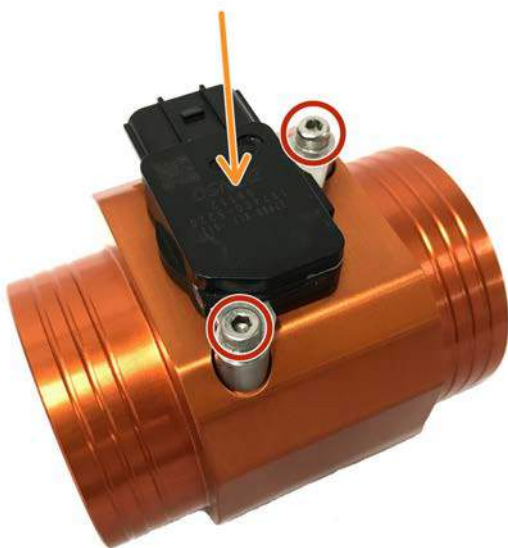
- ⓘ If the holes in the lid do not want to align exactly with the threaded inserts, you can lightly twist/push the airbox. The mounting process can distort the shape of the bow slightly. This is nothing to worry about

Step 32 — Locate the MAF Housing & Silicone



- The MAF housing comes assembled with the necessary MAF sensor installation hardware
 - The MAF housing has a small cutout at the top for the wiring harness. This cutout will face the rear of the vehicle once installed
 - Silicone coupler between the MAF housing and the OE turbo inlet pipe
 - Silicone coupler between the MAF housing and the airbox
- ⓘ On both silicone couplers there is a "W" logo. The bottom of the "W" will face the front of the vehicle once installed

Step 33 — MAF Housing Assembly



- Use a 3mm Allen Key to remove the socket cap bolts from the MAF housing
- Install the MAF sensor into the housing
- ⓘ If you are having issues, push the sensor into the housing while turning the sensor, this should help
- ⚠ Be careful to not pinch and damage the o-ring on the sensor
- Align the sensor with the stainless steel standoff and install the socket cap bolts
- ⓘ Torque the socket cap bolts to 24-48 in-lbs

Step 34 — Locate the T-Bolt Clamps



- Locate the provided QTY=1 67-75mm clamps.
- Locate the provided QTY=1 86-94mm clamp
- The 108-116mm clamp is already installed on the air filter

Step 35 — MAF & Silicone Assembly



- Verify that your MAF & Silicone Assembly has come as shown
- Install the 67-75mm clamp loose as shown
- Install the 86-94mm clamp loose as shown
- ⓘ A small gap between the end of the silicone and the MAF housing is normal. This is required for proper connection of the internal step in the silicone

Step 36 — Installing the MAF & Silicone Assembly Part A



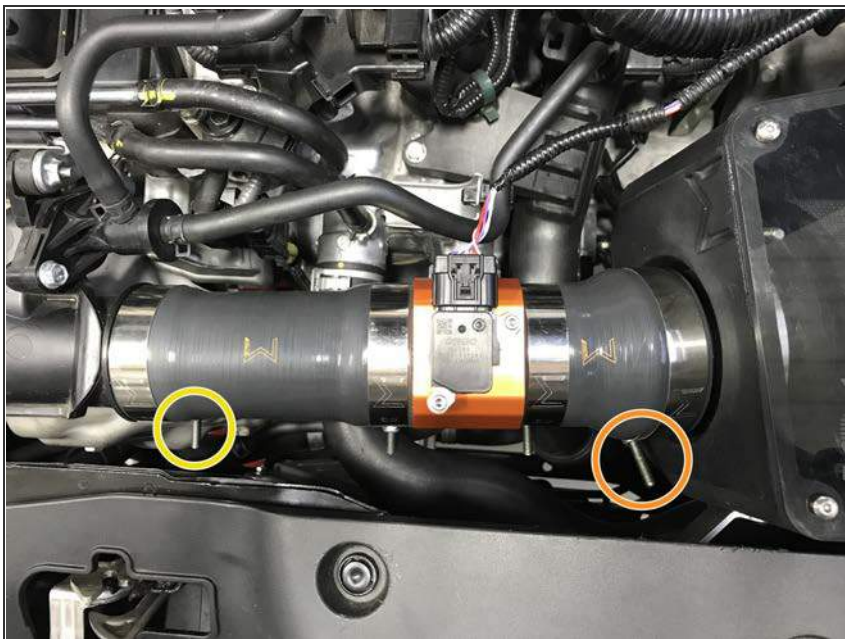
- Angle the MAF & Silicone assembly into the engine bay and onto the airbox
- ⓘ Verify the silicone coupler connecting to the airbox is over the circumference of the airbox outlet

Step 37 — Installing the MAF & Silicone Assembly Part B



- Pivot the MAF & Silicone assembly down and onto the turbo inlet pipe
- ⓘ The silicone coupler is flexible enough to bend and distort as needed to fit over the turbo inlet pipe
- Adjust the silicone coupler to fit around the entrance of the turbo inlet pipe

Step 38 — Installing the MAF & Silicone Assembly Part C



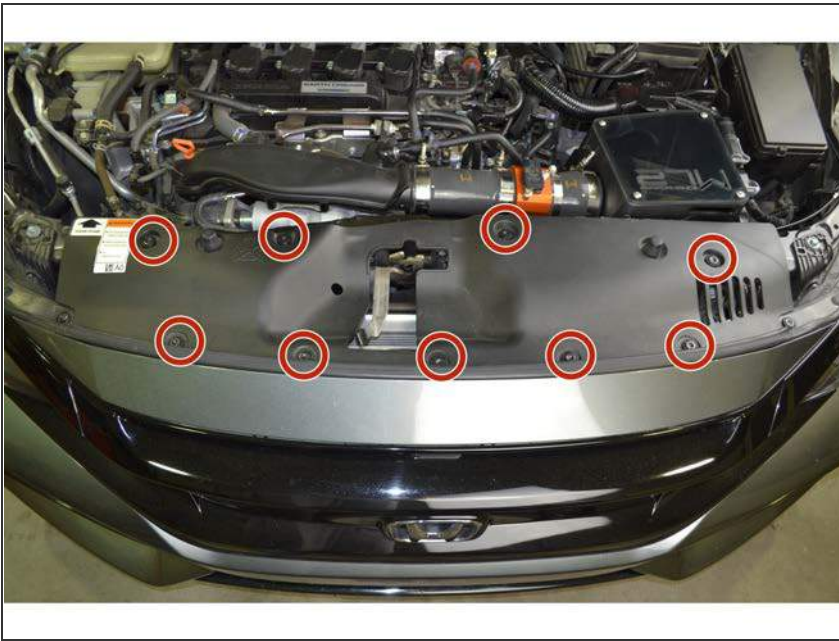
- ① If needed, rotate the MAF & Silicone assembly so the MAF sensor and "W" are facing upward as shown
- Use a 10mm wrench or socket and wrench to tighten the 86-94mm clamp on the airbox
- Use a 10mm wrench or socket and wrench to tighten the 67-75mm clamp on the turbo inlet pipe
- ① Tighten the clamps until snug (the silicone will start to bulge at the edge of the clamp slightly)

Step 39 — Installing the MAF & Silicone Assembly Part D



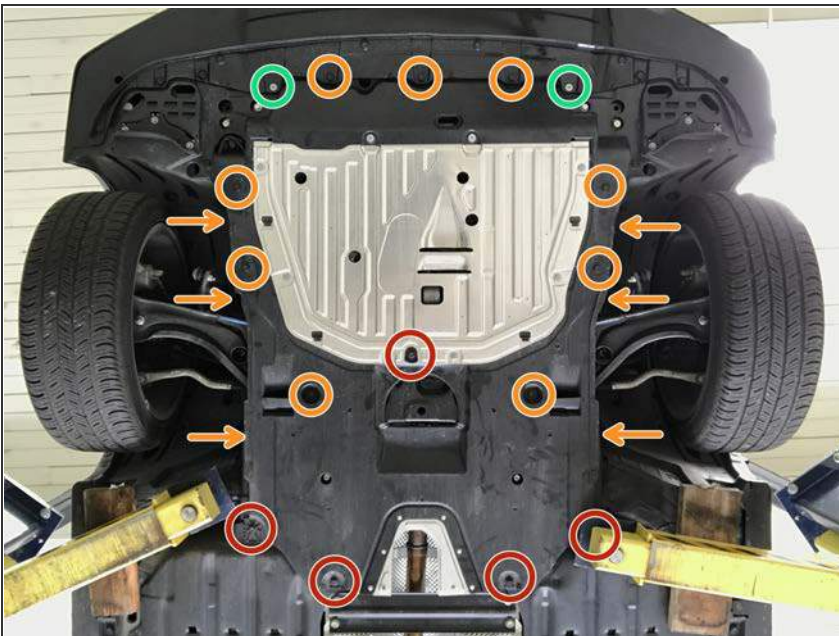
- Connect the wiring harness to the MAF sensor as shown
- Check clearance of the clamp at the turbo inlet pipe, verify there is approximately 3/4" clearance from the end of the T-bolt rod to the core support. Rotate clamp to adjust if necessary

Step 40 — Reinstall Plastic Guard



- Reinstall radiator fan guard by inserting the 9 plastic clips and pressing down on them with your thumb

Step 41 — Re-Install the Skidtray Part A



- Re-install the 10mm bolts with a 10mm socket & torque wrench. Torque to 8-12 ft-lbs
- Re-install the 5mm socket flange bolts with the 5mm Allen key & torque wrench. Torque to 6-8 ft-lbs
- Re-install the push clips at the bottom of the undertray and the sides (shown in Step 2)

Step 42 — Re-Install the Skidtray Part B



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

Step 43 — I Dare You to REDEFINE



- This completes the installation of your 27WON Performance Cold Air Intake System.
- We hope you were impressed with your 27WON experience and love your new Cold Air Intake for years to come. Email us at sales@27won.com or call us at 571-271-0271 with any questions or concerns
- We recommend going to the next step to learn how to service the air filter or check our video on cleaning the air filter at <https://youtu.be/nE7diTel4Gw>
- Please Leave a review here: <https://store.27won.com/10th-gen-civic-c...>
- Share your experience using #27WON on Instagram and Facebook

Step 44 — TIP: Air Filter Removal & Installation



- i The next step explains how to remove and reinstall your air filter for cleaning and service.
- ! When re-installing your air filter be careful not to compress the velocity stack on the air box to a point of deformation. Doing so can cause the air box to crack and the air filter to fall off

Step 45 — Air Filter Removal & Installation



- i** Here we show how to remove the air filter for standard maintenance
- Use a 3mm Allen Key to remove the four bolts, then remove the airbox lid
 - Use a 10mm socket and wrench to loosen the clamp
 - Pull the air filter off the airbox velocity stack then pull the filter straight up and out of the airbox
 - i** The air filter is a tight squeeze to remove, do not worry if the airbox or air filter flex or distorts slightly
 - Reinstall the air filter in the reverse order.
 - Hold the air filter tight against the airbox velocity stack and tighten the clamp snug. Verify the air filter cannot be pulled loose with a gentle tug
 - Verify that the T-bolt rod is not protruded past the top of the airbox, this would damage the airbox lid