

PERFORMANCE BY



INSTALLATION GUIDE

IE RACE INTERCOOLER KIT FOR AUDI B9/B9.5 SQ5

IETPCZ1

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This installation guide is for instructional purposes only. For best results, professional installation by an experienced technician is always recommended. By reading this guide you agree Integrated Engineering is not responsible for any damage or personal injury caused by incorrect installation.

## DIFFICULTY

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Expect 30 - 40 minutes on average

## REQUIRED TOOLS

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- Flathead screwdriver
- T25 torx driver
- Trim Removal Tool
- Rubber Mallet
- Phillips Head Screwdriver
- 13mm Socket & Deep Socket
- 10mm Socket
- 6mm Allen Socket or Wrench

## BEFORE YOU BEGIN

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It is highly recommended to pre-read this entire guide ahead of your installation to familiarize yourself with each step. Always park your vehicle in a safe and level location and allow plenty of time for the engine bay and exhaust to completely cool. Locate and prepare your work space with each required tool listed above. Unbox all components and verify the contents and quantities before you begin. If anything is missing or damaged, please contact us for immediate help at [support@performancebyie.com](mailto:support@performancebyie.com)

### SPECIAL NOTE:

This install guide has been photographed and written on a 2019 Audi SQ5. Some steps and factory hardware specifications may vary depending on vehicle model, year, and region. This guide is for reference purposes only. If you are unsure of the installation procedure for any individual step or part, please seek professional help before proceeding.



# INCLUDED PARTS

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- 01 - IETPCK5 B9 S4/SQ5 Race Intercooler
- 02 - IETPCK5-10 Race IC Pass. Silicone Coupler
- 03 - IETPCK5-9 Race IC Driver Silicone Coupler
- 04 - IETPCZ1-3 B9 SQ5 Race Intercooler Crash Beam
- 05 - IETPCZ1-1 B9 SQ5 Race Intercooler Upper Right Bracket
- 06 - IETPCZ1-2 B9 SQ5 Race Intercooler Upper Left Bracket
- 07 - IETPCZ1-5 B9 SQ5 Race Intercooler Lower Right Bracket
- 08 - IETPCZ1-4 B9 SQ5 Race Intercooler Lower Left Bracket
- 09 - Smooth-band Worm-drive Hose Clamp, 2-1/2" To 3-1/2" Clam (4X)
- 10 - Passivated 18-8 Stainless Steel, M6 x 1 mm Thread, 12mm Long (4X)
- 11 - 18-8 44 Split Lock Washer for M8 Screw, 8.4mm ID, 14.8mm OD (6X)
- 12 - 18-8 Square Neck Carriage Bolt, M8 x 1.25mm, 16mm Long (6X)
- 13 - M8 x 1.25, 30mm Long, 18-8 (4X)
- 14 - Stainless Steel Hex Nut, M8 x 1.25 mm Thread (6X)
- 15 - Stainless Steel Washer for M8 Screw Size, 8.4 mm ID, 24 mm OD (4X)



Some items may be partially assembled.

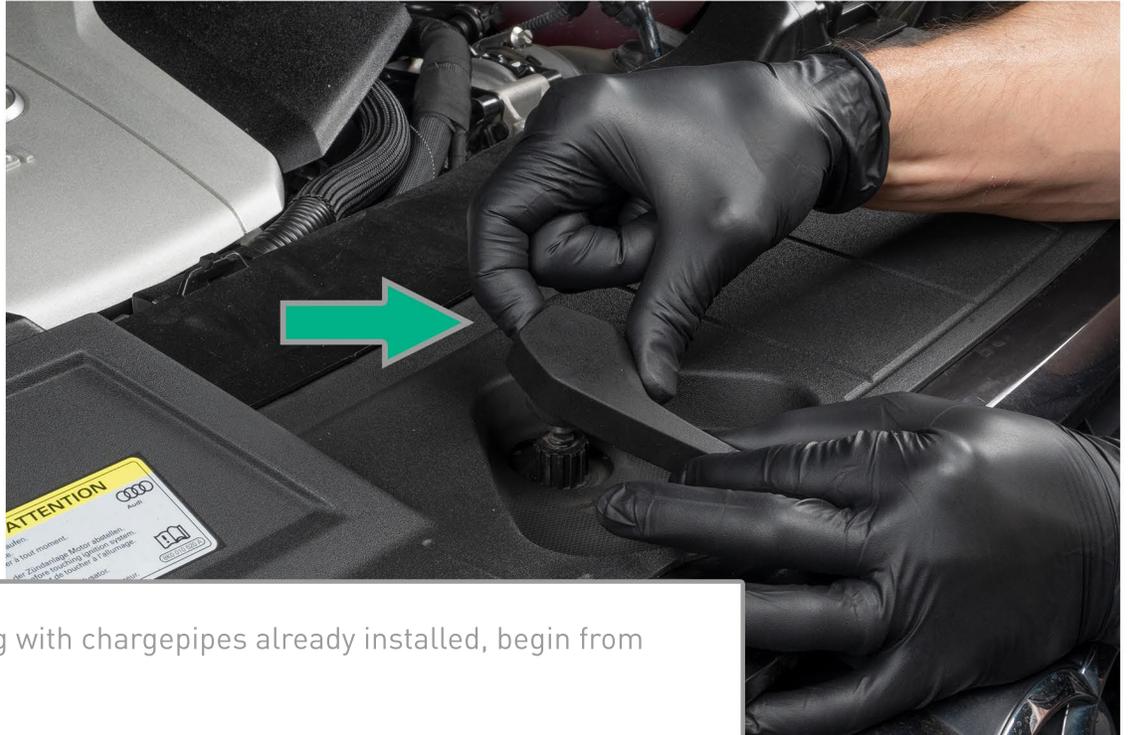


1



If you have not already installed the required IE Aluminum Charge Pipes, refer to the install guide located on the product page for IE product number: IETPCK6

2



If you are starting with chargepipes already installed, begin from this point.

Begin by removing the hood latch release by pressing the button on the rear side and pulling straight up



3



Remove front radiator cover by pulling up on the front edge and running your finger along the front edge to release the clips

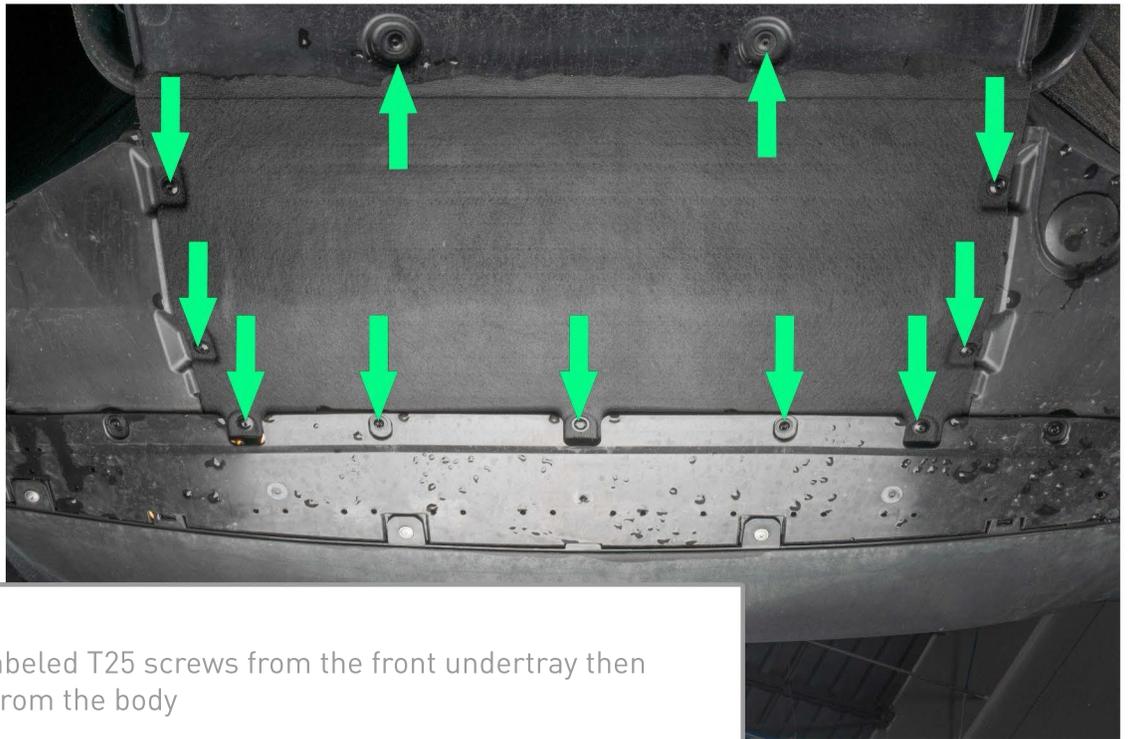
4



Using a T25 Torx Socket, remove the two top retaining screws from the top of the bumper



5



Remove twelve labeled T25 screws from the front undertray then remove the tray from the body

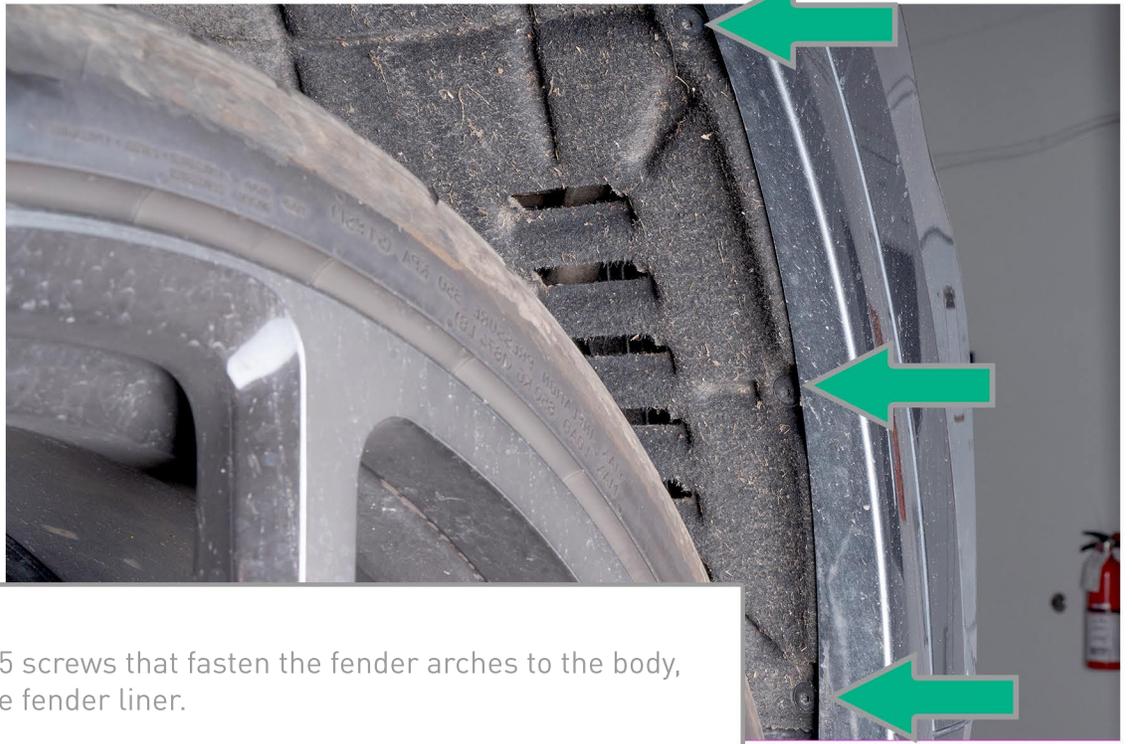
6



Remove 4 torx screws on the lower edge of the bumper

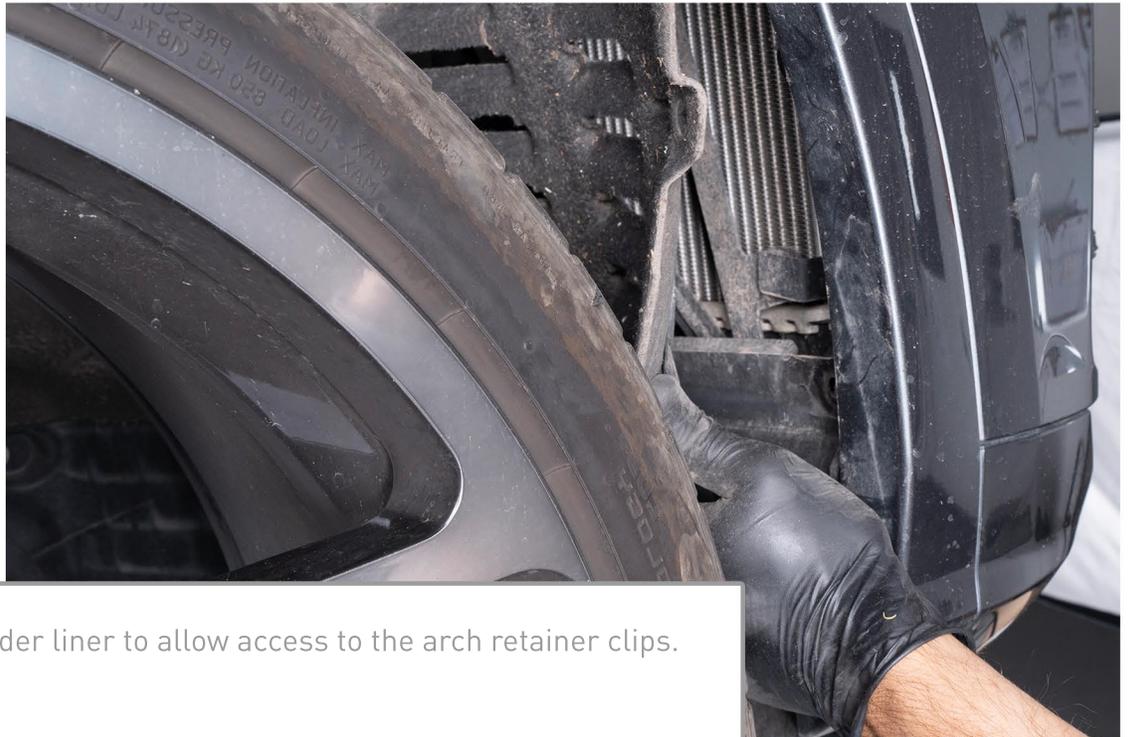


7



Remove three T25 screws that fasten the fender arches to the body, then pull back the fender liner.

8



Pull back the fender liner to allow access to the arch retainer clips.



9



Pull out four retainer clips that fasten the arch to the bumper by applying pressure on the back side of the clip, while also applying light pressure to the arch outward.

10



Pictured is the retainer clip to visualize where pressure needs to be applied.

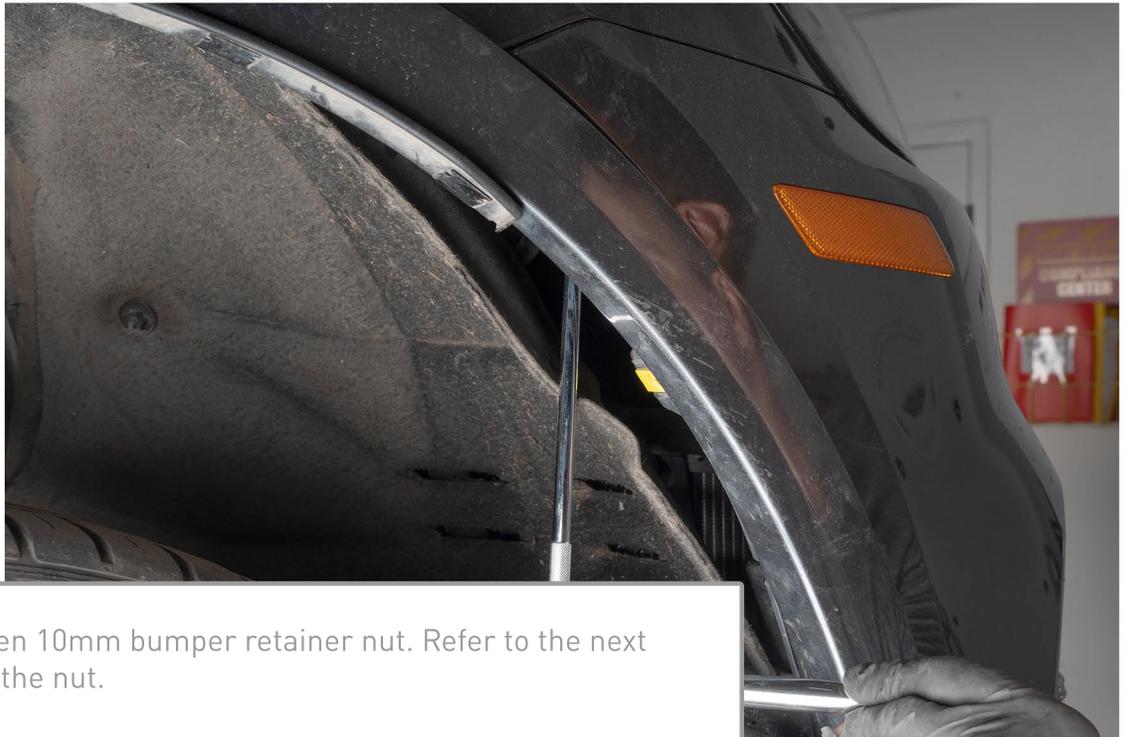


11



On the top corner of the bumper, remove both the t25 screw and the press-in retainer using a trim removal tool.

12



Remove the hidden 10mm bumper retainer nut. Refer to the next step for visual of the nut.

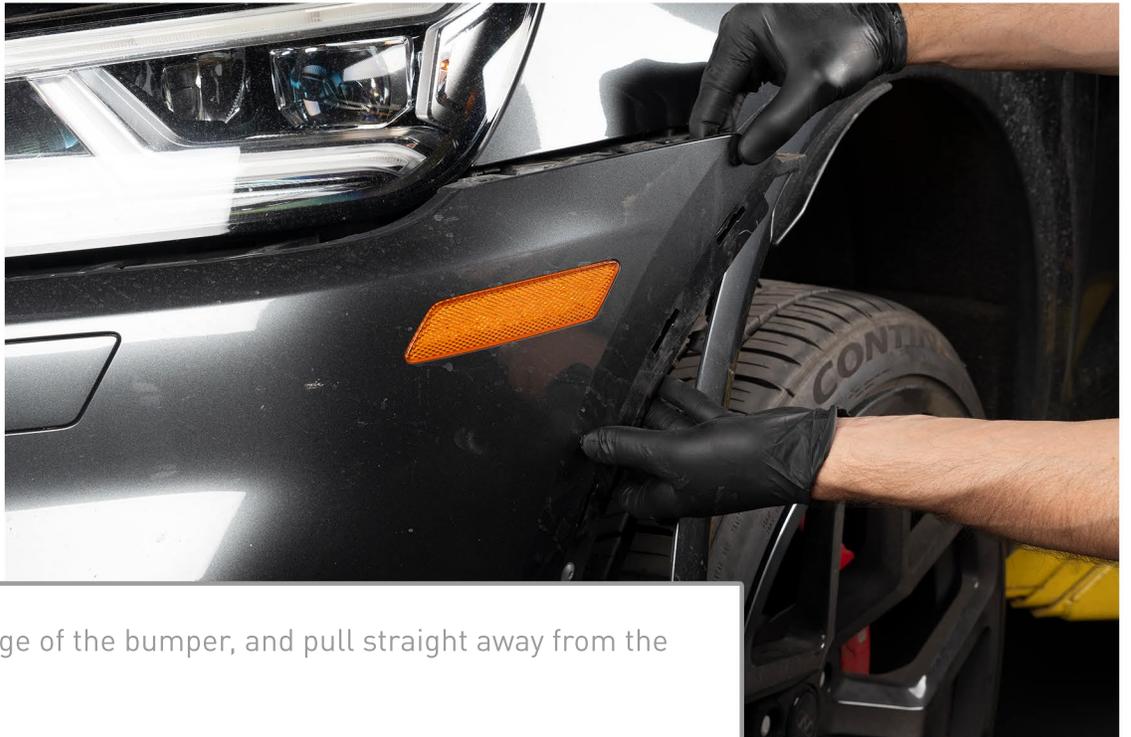


13



Photo of the retainer nut.

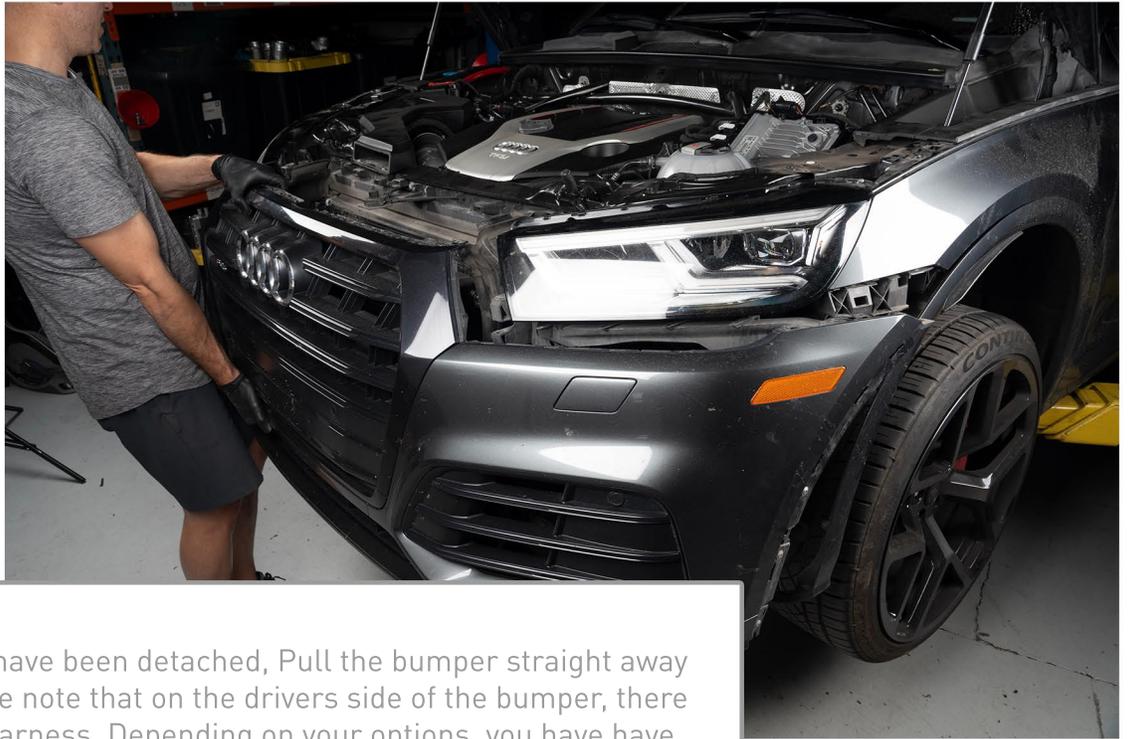
14



Grab the back edge of the bumper, and pull straight away from the body



15



Once both sides have been detached, Pull the bumper straight away from vehicle. Take note that on the drivers side of the bumper, there will be a wiring harness. Depending on your options, you have have more than one harness.

16



Depress the clip on the and pull them apart. Once any harnesses have been separated, you can then remove the bumper.



17



Remove temp sensor from crash beam. A wiggle motion works best

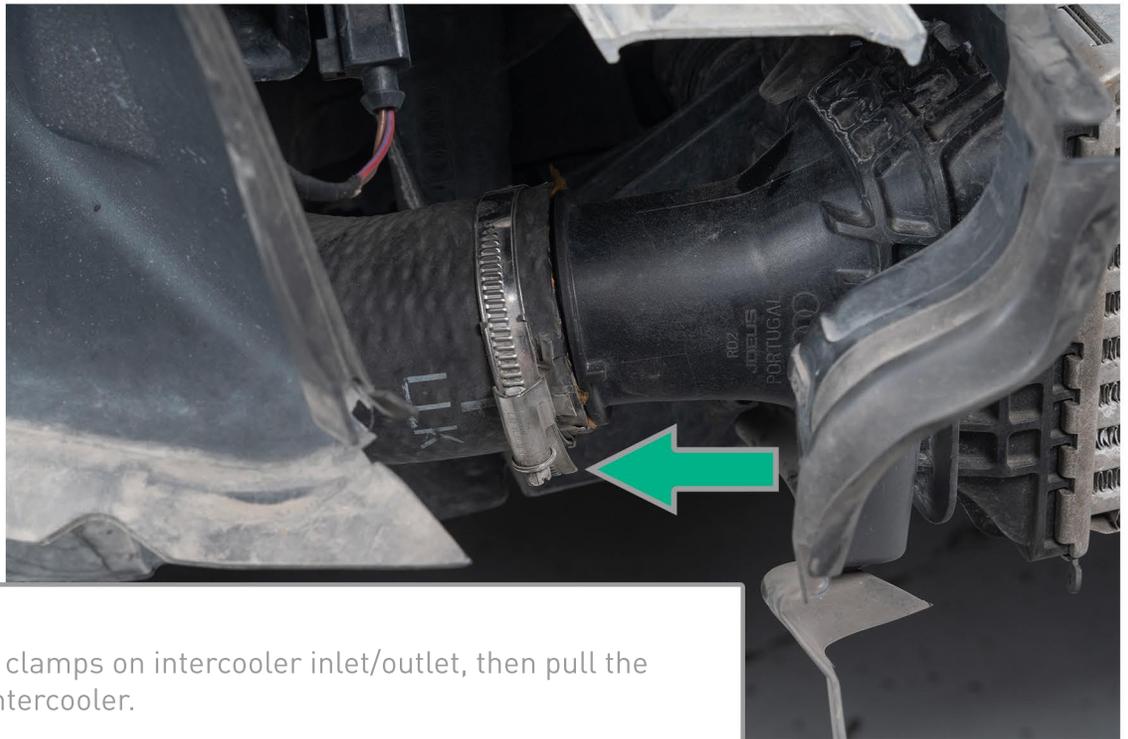
18



Use 13mm deep socket on the bottom and a 13mm socket on the top to remove the four crash beam bolts. You may need to use a pry bar to dislodge it.

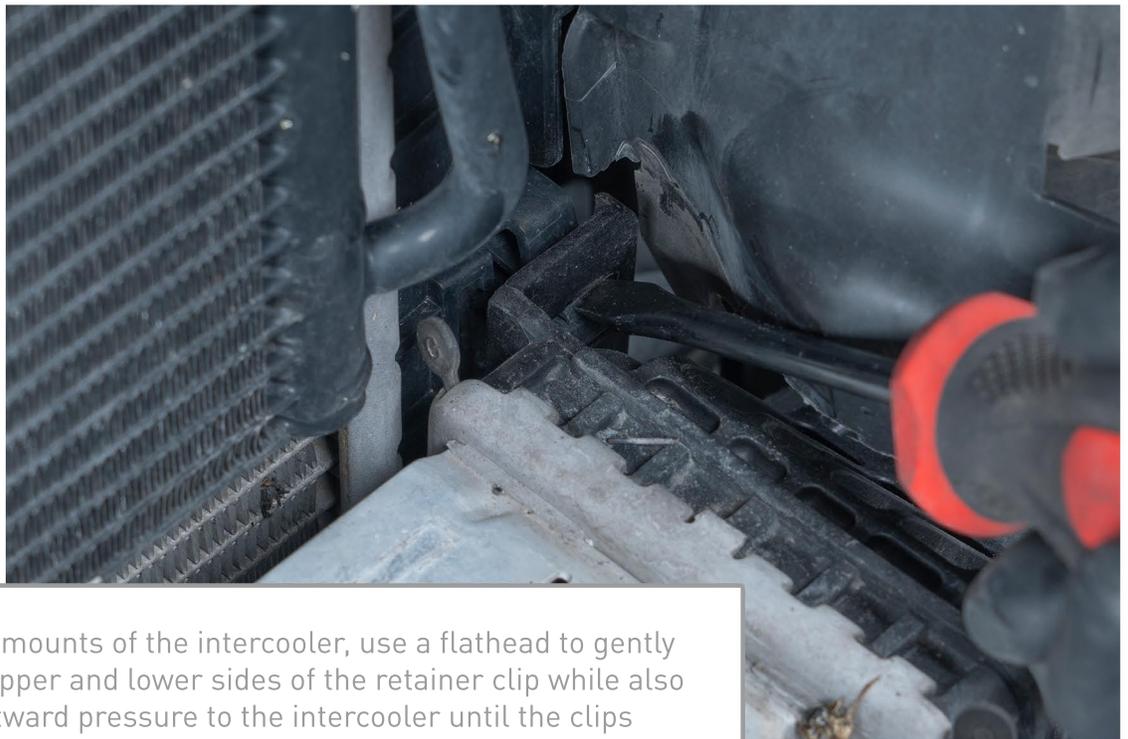


19



Loosen two hose clamps on intercooler inlet/outlet, then pull the hoses from the intercooler.

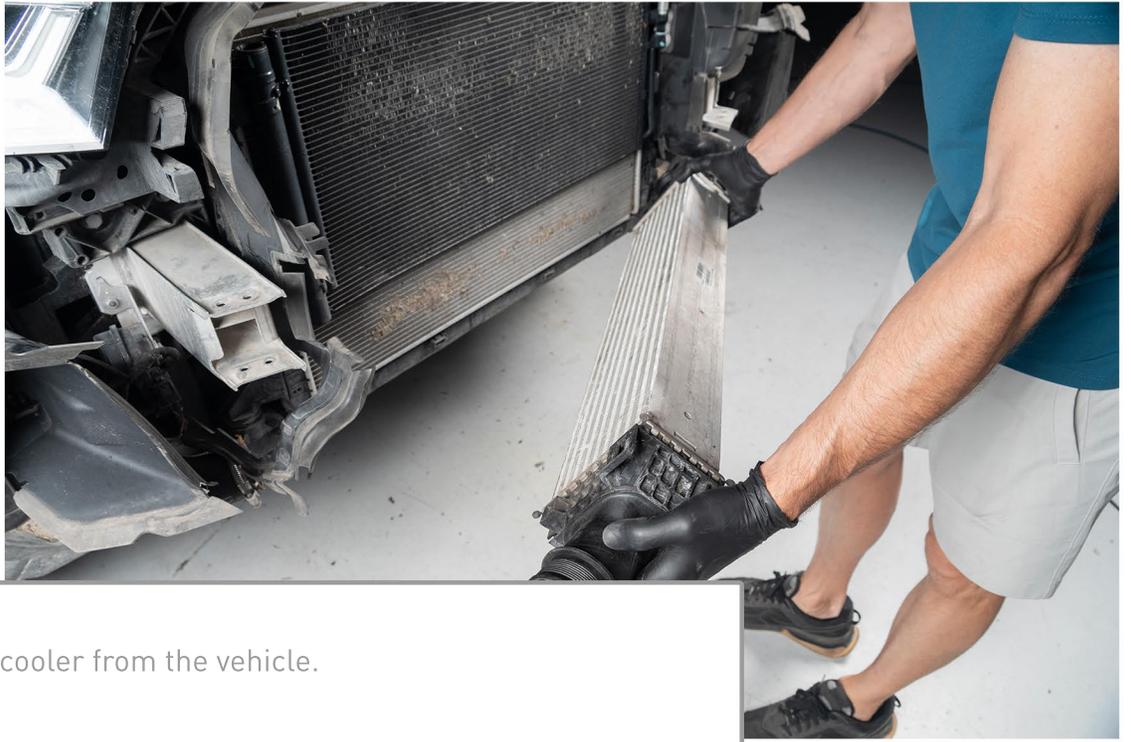
20



To unclip the top mounts of the intercooler, use a flathead to gently pry on both the upper and lower sides of the retainer clip while also applying light outward pressure to the intercooler until the clips release.

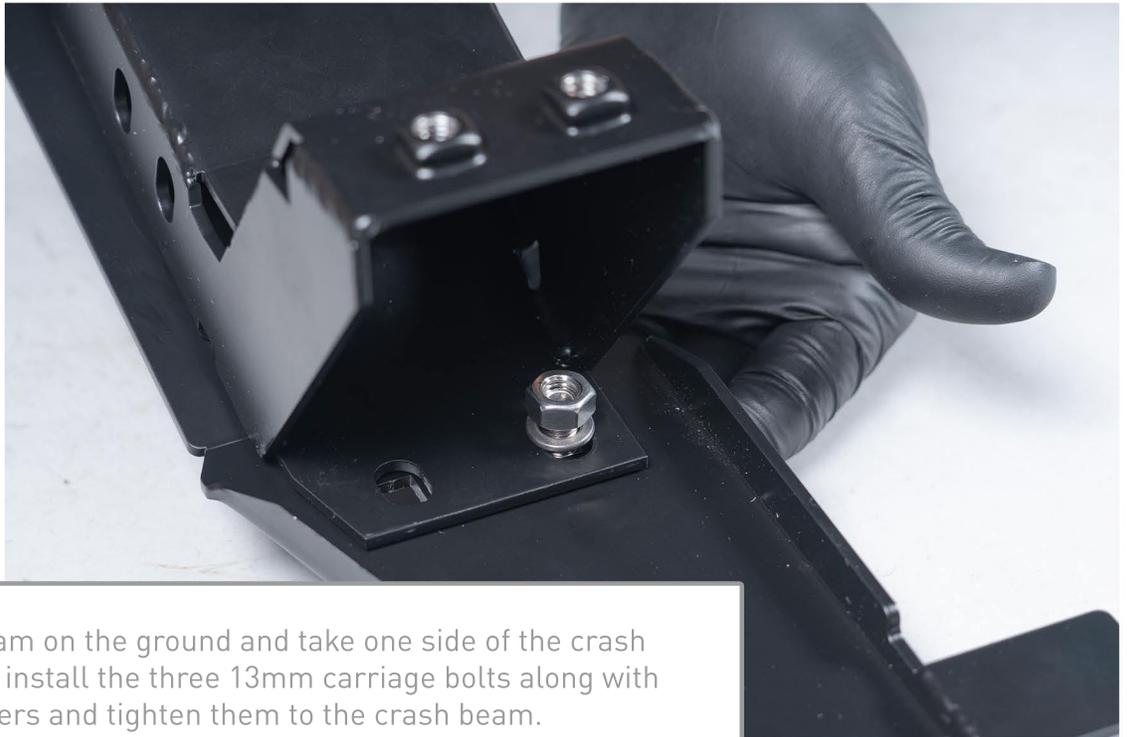


21



Remove the intercooler from the vehicle.

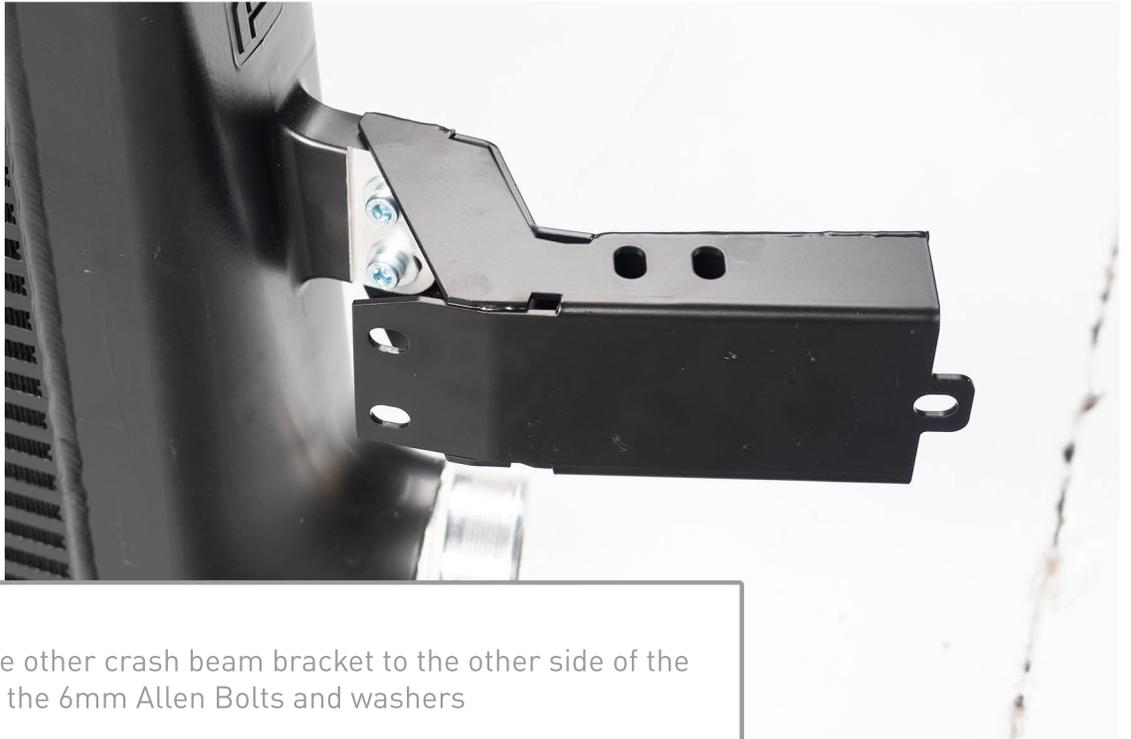
22



Lay the crash beam on the ground and take one side of the crash bar brackets and install the three 13mm carriage bolts along with the locking washers and tighten them to the crash beam.



23



Loosely install the other crash beam bracket to the other side of the intercooler using the 6mm Allen Bolts and washers

24



Loosely install the crash beam assembly to the other side of the intercooler

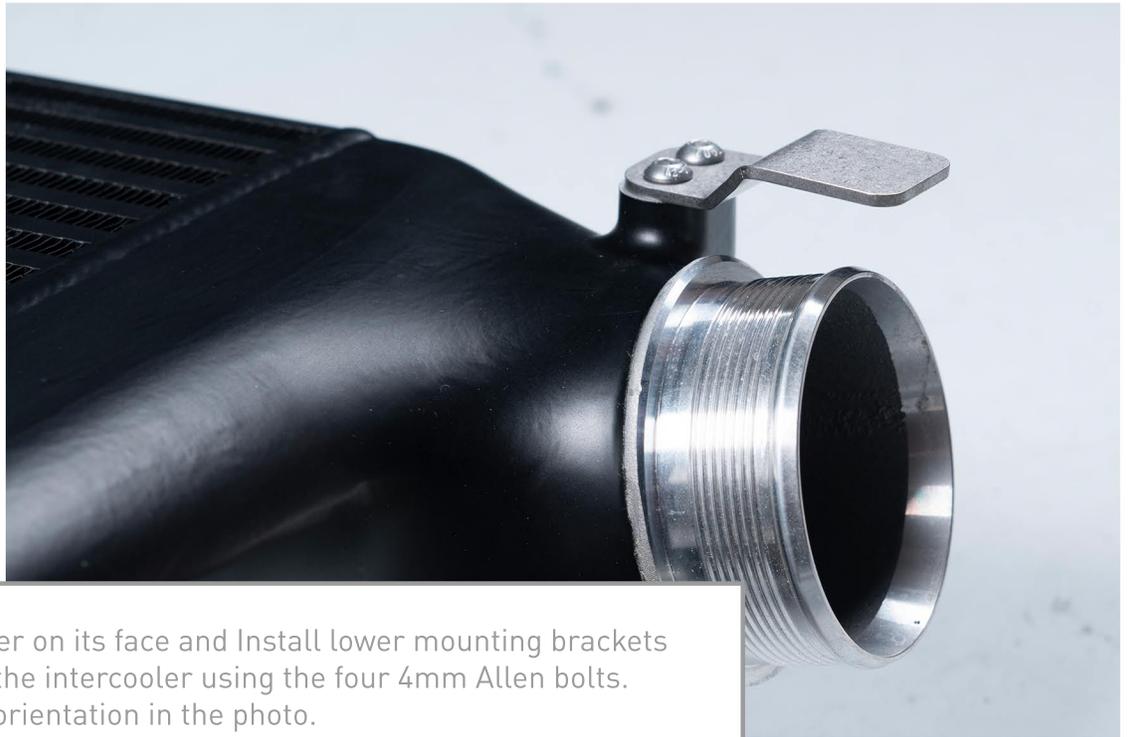


25



Once the 6 carriage bolts are aligned, tighten them down to secure the crash beam to the brackets. Leave the four 6mm Allen bolts hand tight for now.

26



Lay the intercooler on its face and Install lower mounting brackets to the bottom of the intercooler using the four 4mm Allen bolts. Take note of the orientation in the photo.



27



Lower the intercooler assembly onto the alignment tabs of the radiator support.

28



Align and push the crash beam brackets with the frame rails and then reinstall the 13mm Bolts. A rubber mallet may be needed to press the assembly into place.

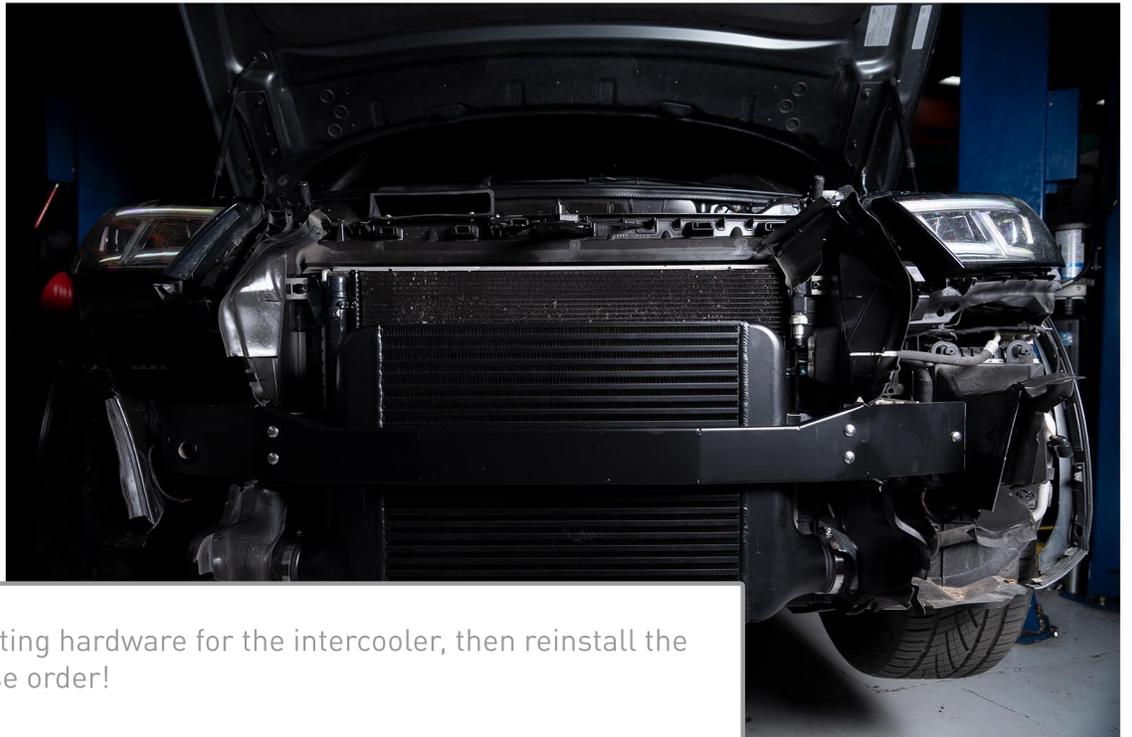


29



Reinstall charge pipe hoses and tighten.

30



Tighten all mounting hardware for the intercooler, then reinstall the bumper in reverse order!

