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**IE Audi B9 S4, S5, A4, A5, Allroad FDS Intercooler Install Guide
IETPCK1**

Thank you for purchasing the best performing intercooler on the market! This instruction guide is used for installation of IE's FDS Intercooler System for Audi B9 S4, S5, A4, A5, and Allroad 2.0T applications. This kit needs to be installed by a professional or an experienced technician. Integrated Engineering is not responsible for any damage caused by incorrect installation.

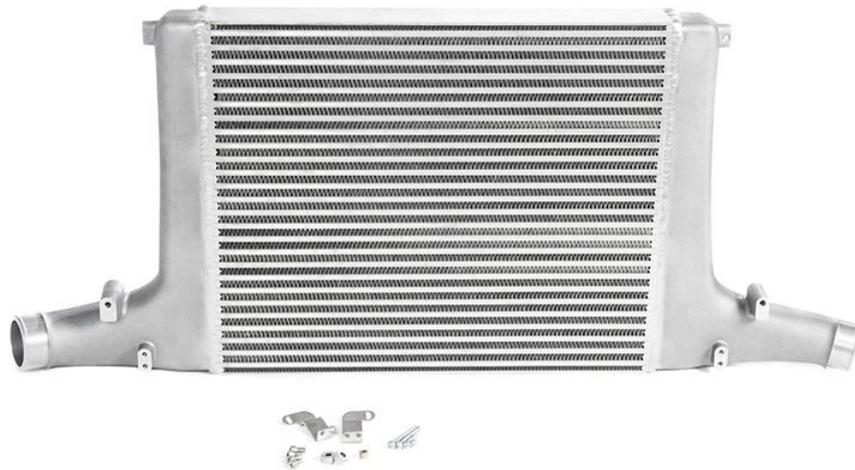
Required Tools:

- Flathead screwdriver
- Socket wrench
- Socket extension(s)
- 10mm socket
- 13mm socket
- 13mm crescent wrench
- T25 torx bit
- T27 torx bit
- T30 torx bit
- Needle nose pliers
- 5mm allen wrench
- 3/16" allen wrench

Included Components:

- 1X IE FDS Intercooler
- 2X Intercooler upper brackets
- 4X 4mm allen bolts
- 2X Aluminum bracket spacers
- 2X Short T25 screw bolts
- 1X Medium T25 screw bolt
- 1X Long T25 screw bolt
- 1X Water Meth bung plug

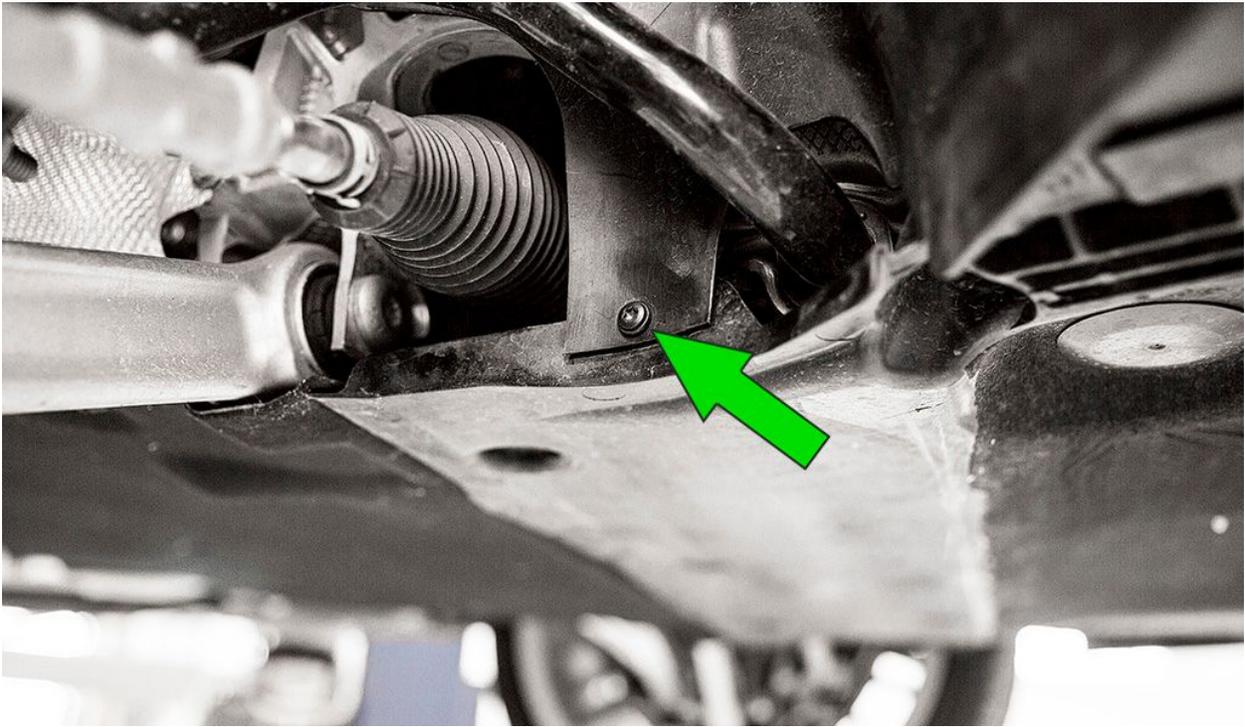
Before you begin, open your IE Downpipe Kit, inspect all components, and verify their quantities.



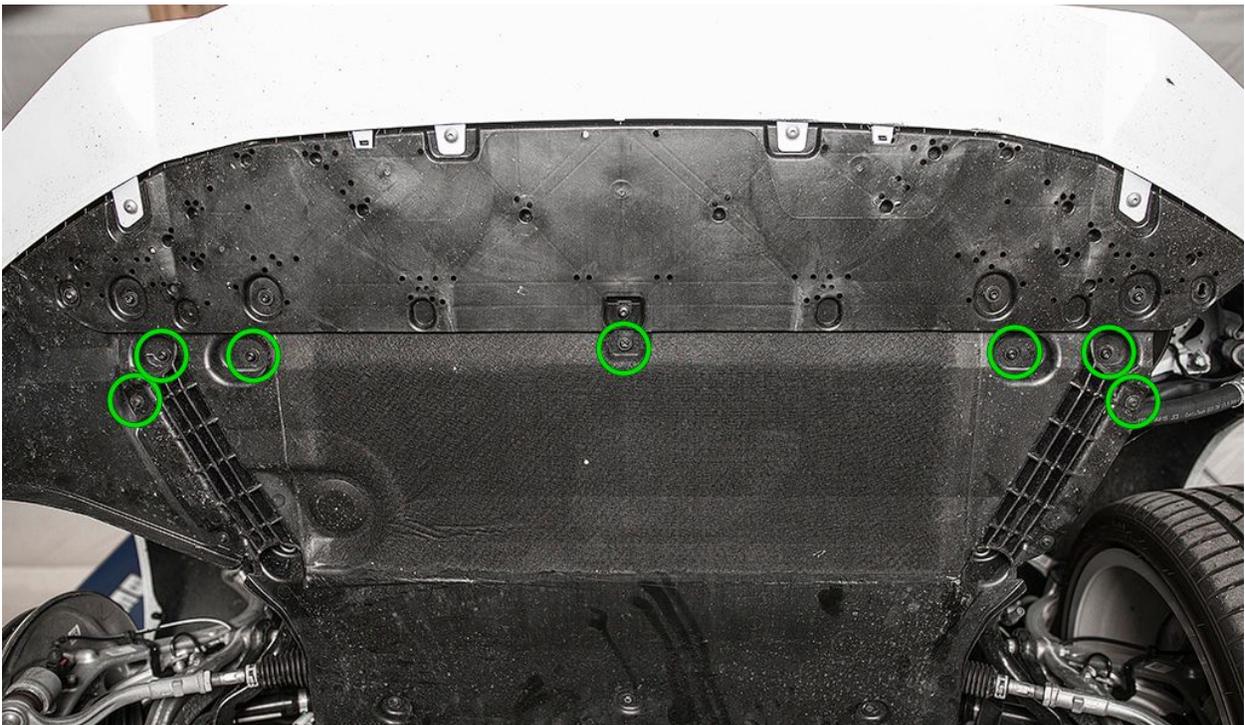
Safely rack your car on an auto lift or place onto jack stands. It is also recommended to allow the car to cool before beginning this install procedure.



Remove both front wheels to gain access to the fender liners and belly pan hardware. First remove the belly pan, start with the T27 torx screw in the fender well on each side.



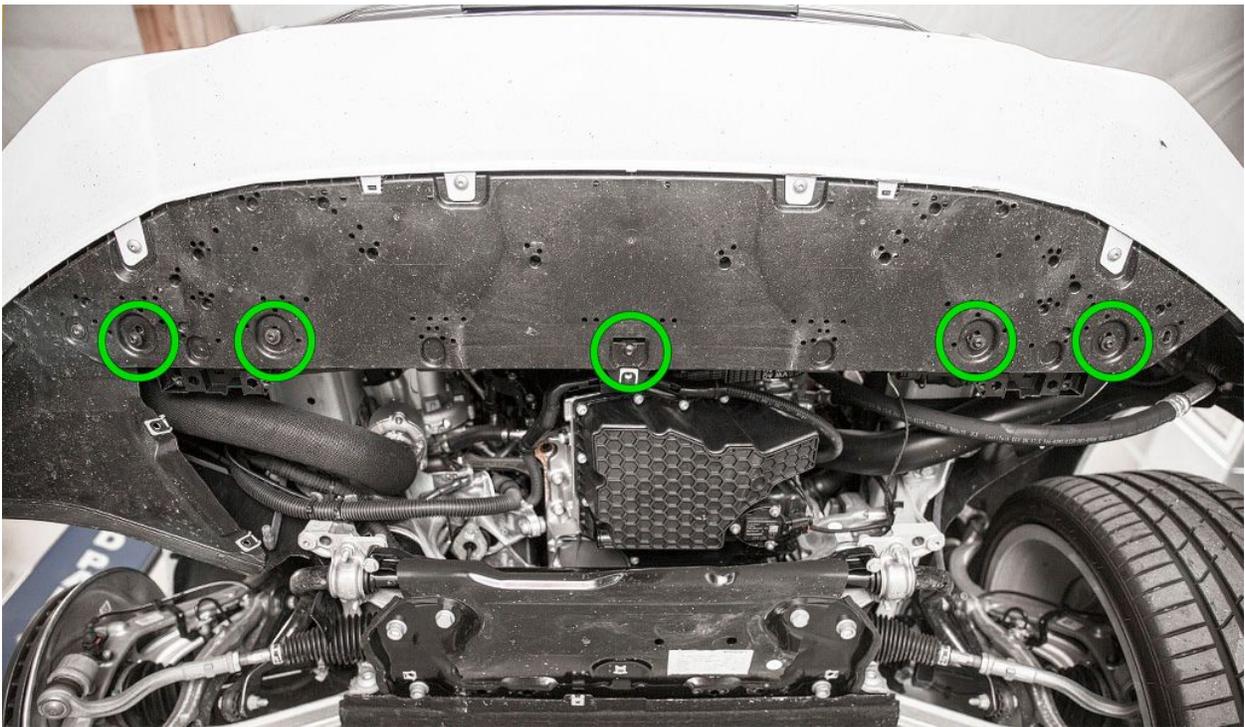
Remove the remaining seven T25 torx screws holding the belly pan in place.



Remove belly pan from vehicle by sliding backwards.



Remove the four T30 torx screws and one T25 torx screw from the underside of the bumper that secures it to the radiator support.



Remove the plastic push retainer from the fender liner by carefully prying under it with a flat head screwdriver.



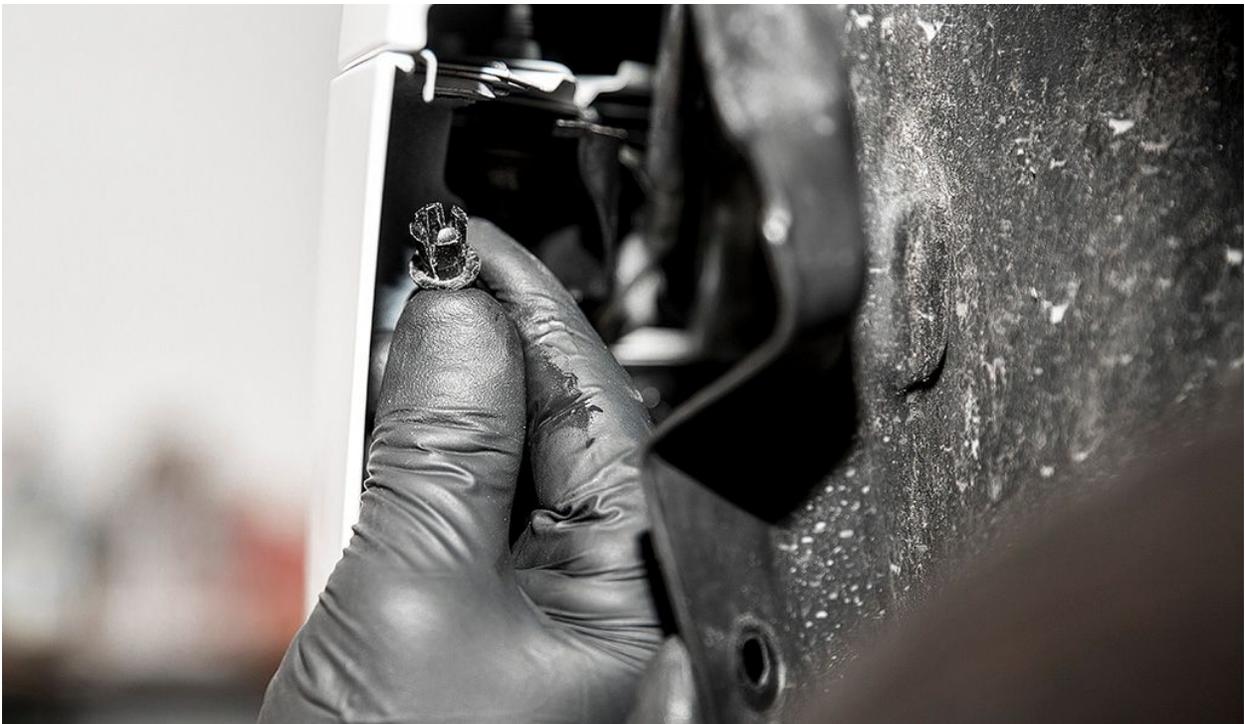
Remove the three plastic nuts with a 10mm socket and the eight T25 torx screws in the wheel well that secure the wheel liner.



You can now fully remove the lower wheel liners. Repeat this process on both sides.



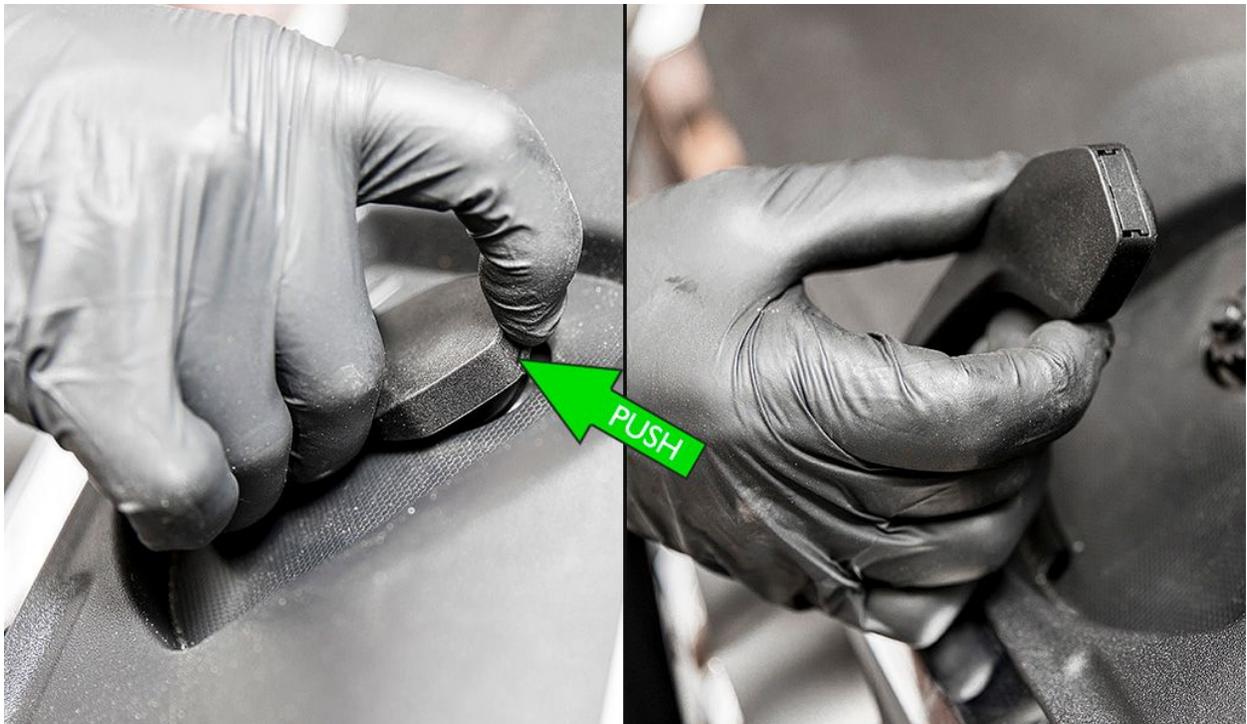
Remove the plastic bumper to fender push-lockers, one is located on each side.



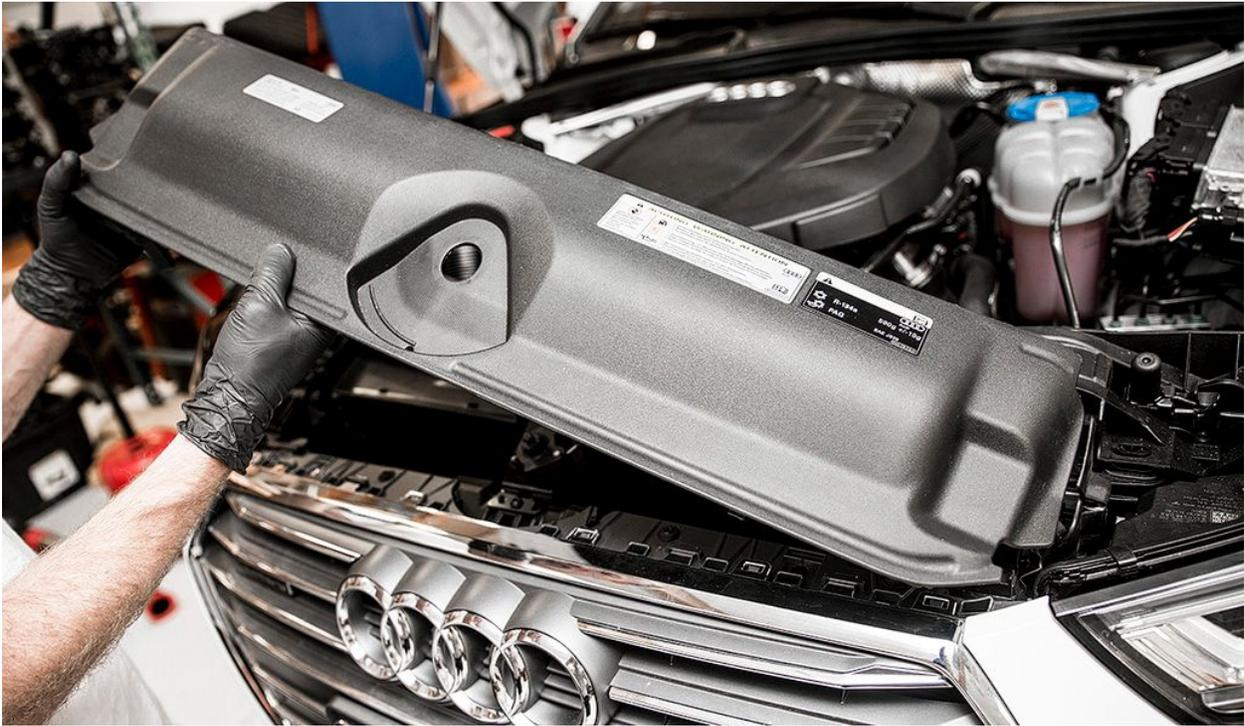
Using a long extension, locate and remove the T30 bumper to fender bolt, one on each side.



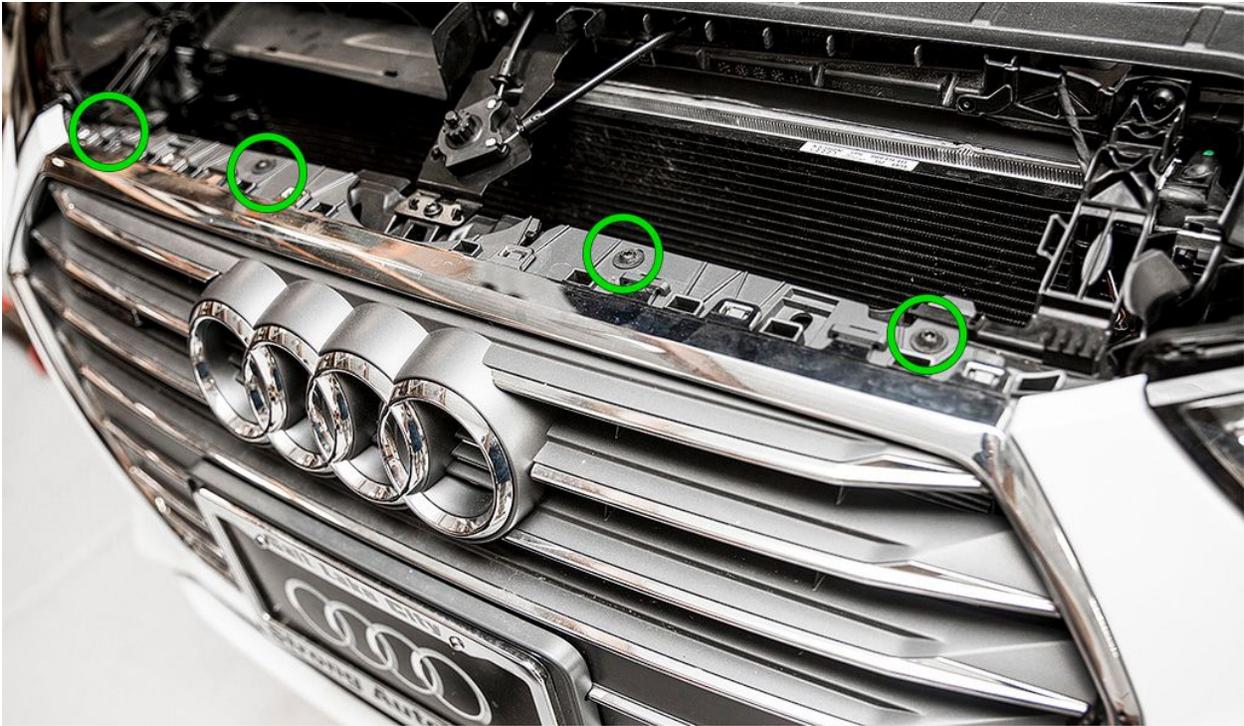
Remove the hood release handle by pushing on the lock tab and pulling upwards.



Remove the plastic bumper cover by gently pulling up.



Remove the four T30 torx screws located on top of the grill.



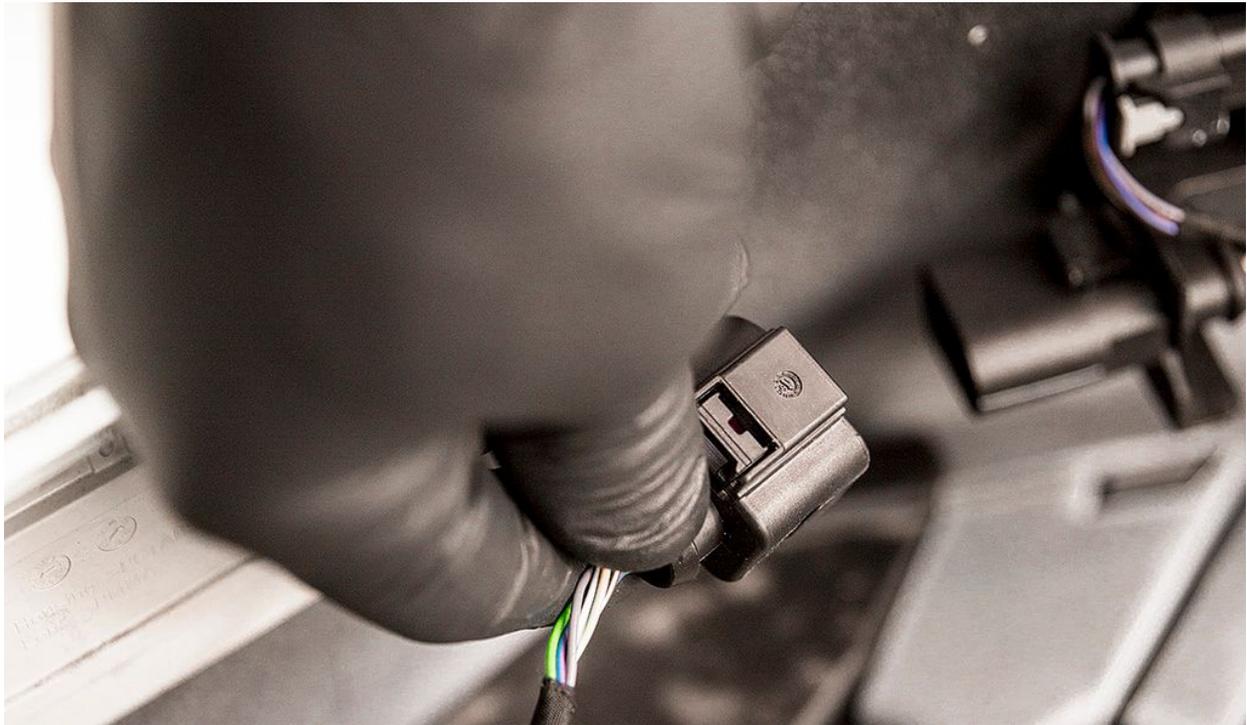
Release the grill from the bumper support bracket by gently pulling the clips up and forward.



Release the bumper cover from the fender by pulling on the outer top edge. Repeat on both sides. *Note: Use caution during this step to not break the plastic clips that fasten the bumper.*



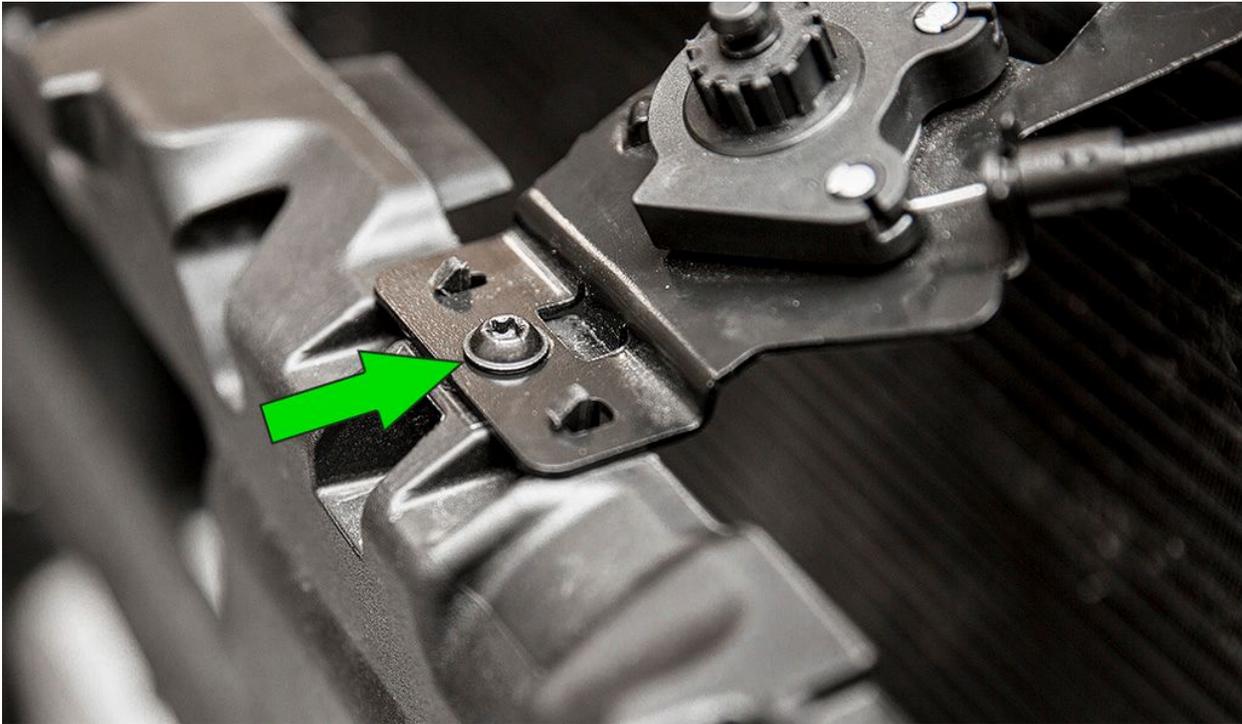
Pull the driver's side of the bumper cover forward and disconnect all electrical connectors located inside. *Note: Do not pull bumper too far forward in this step, it can damage the bumper harness.*



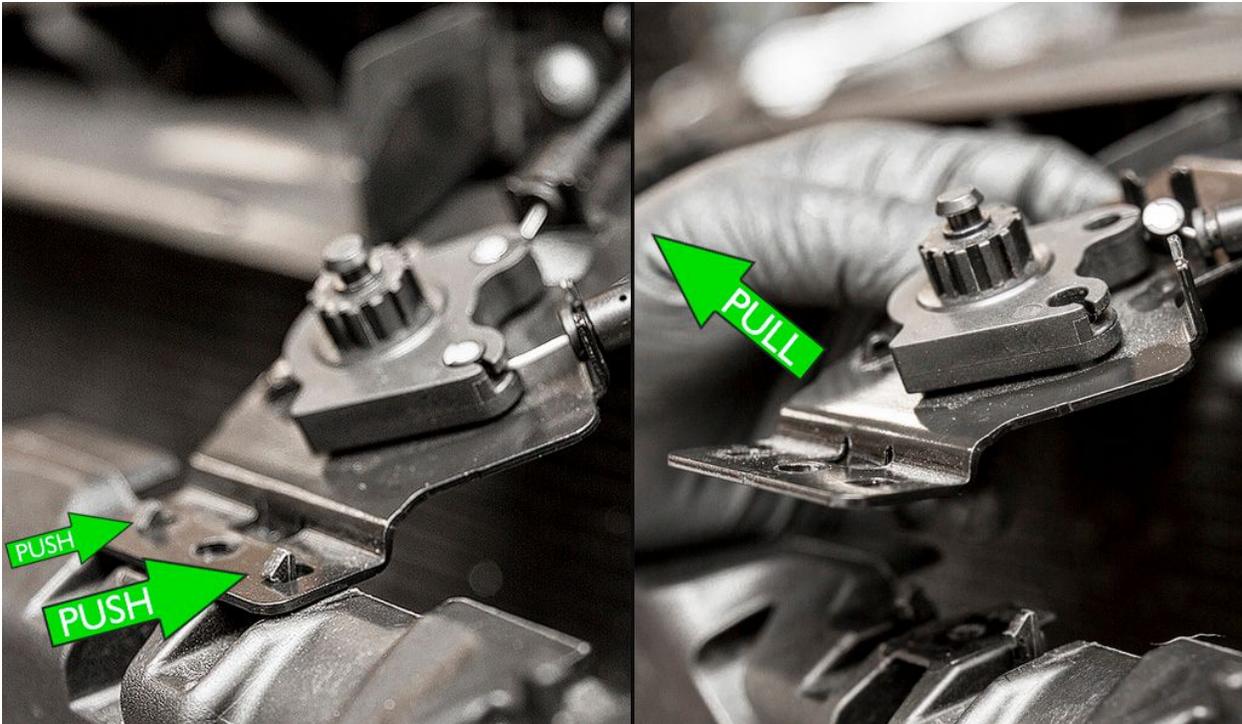
Verify all harness connectors are disconnected and free, then completely remove the front bumper.



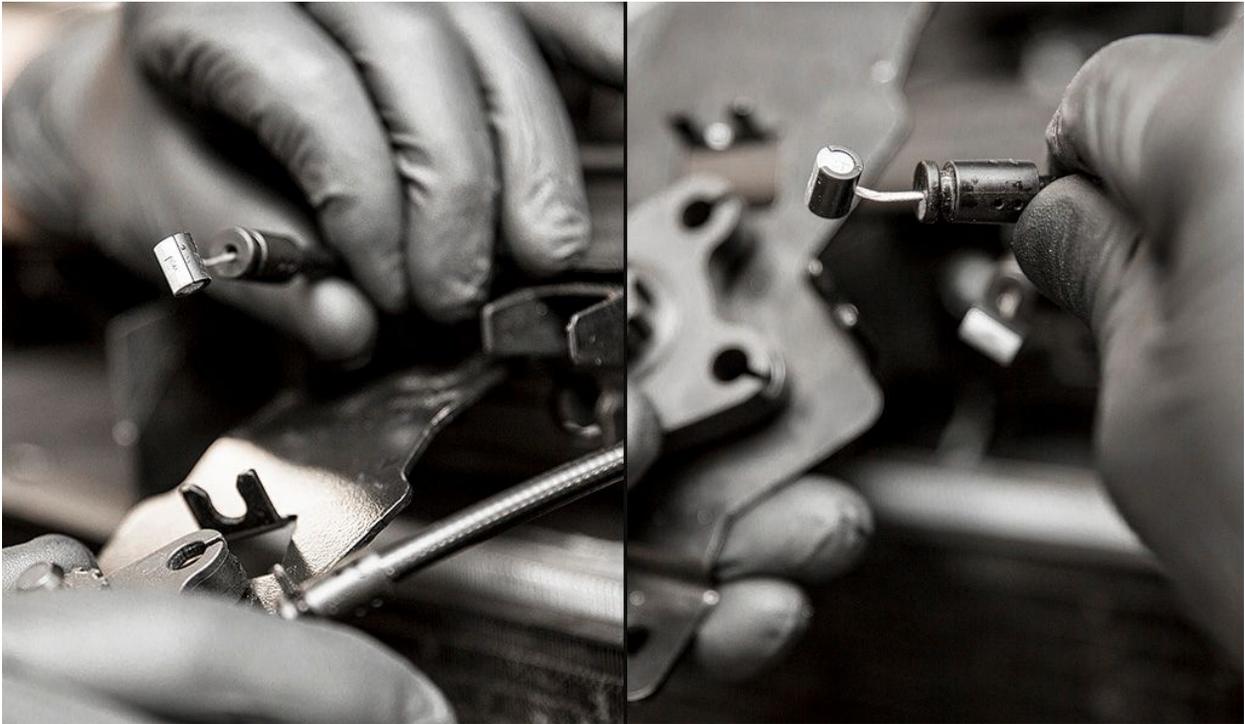
Remove the T30 torx screw from the hood latch cable bracket.



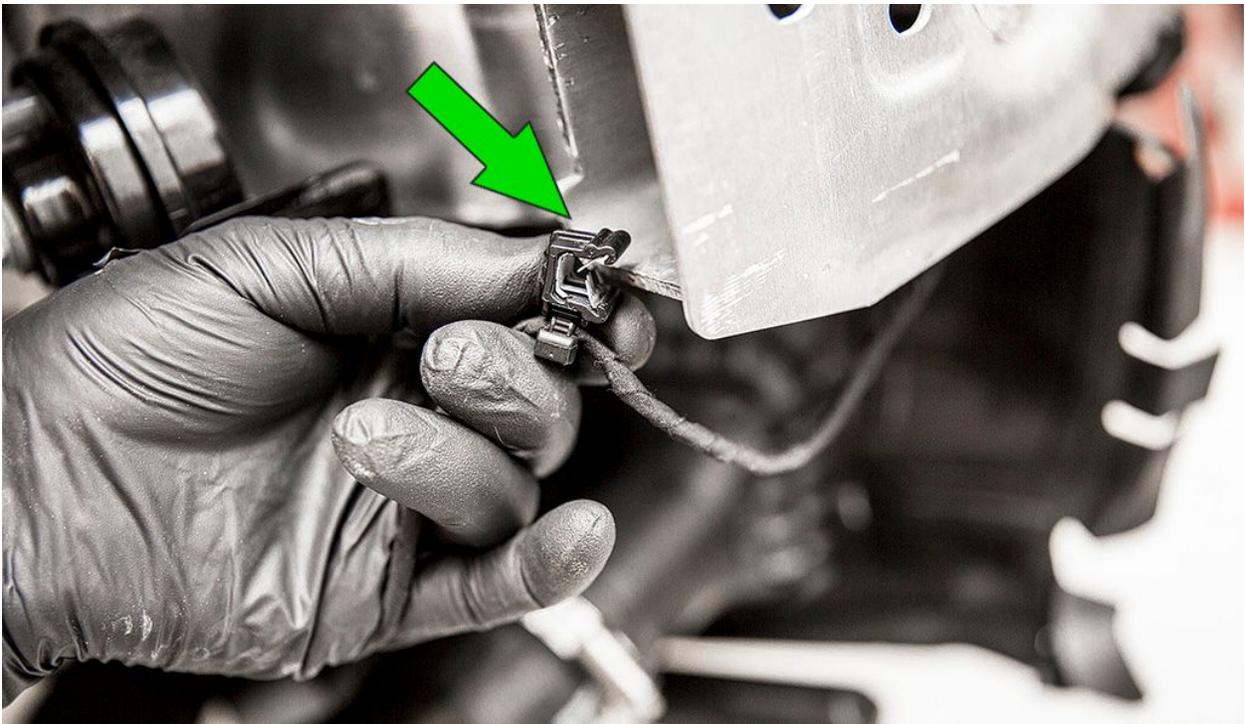
Push the two securing tabs forward and pull up to remove the hood release cable bracket.



Disconnect the two hood release cables from the bracket.



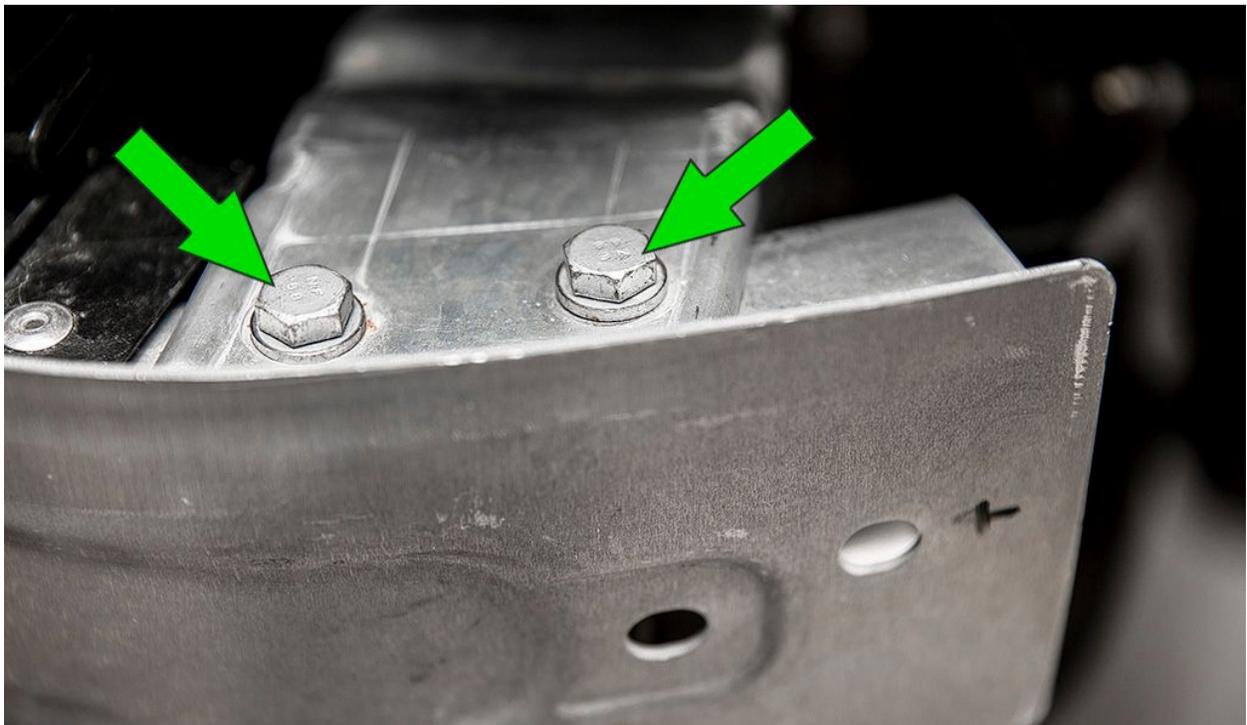
Release the wiring harness clip from the crash beam.



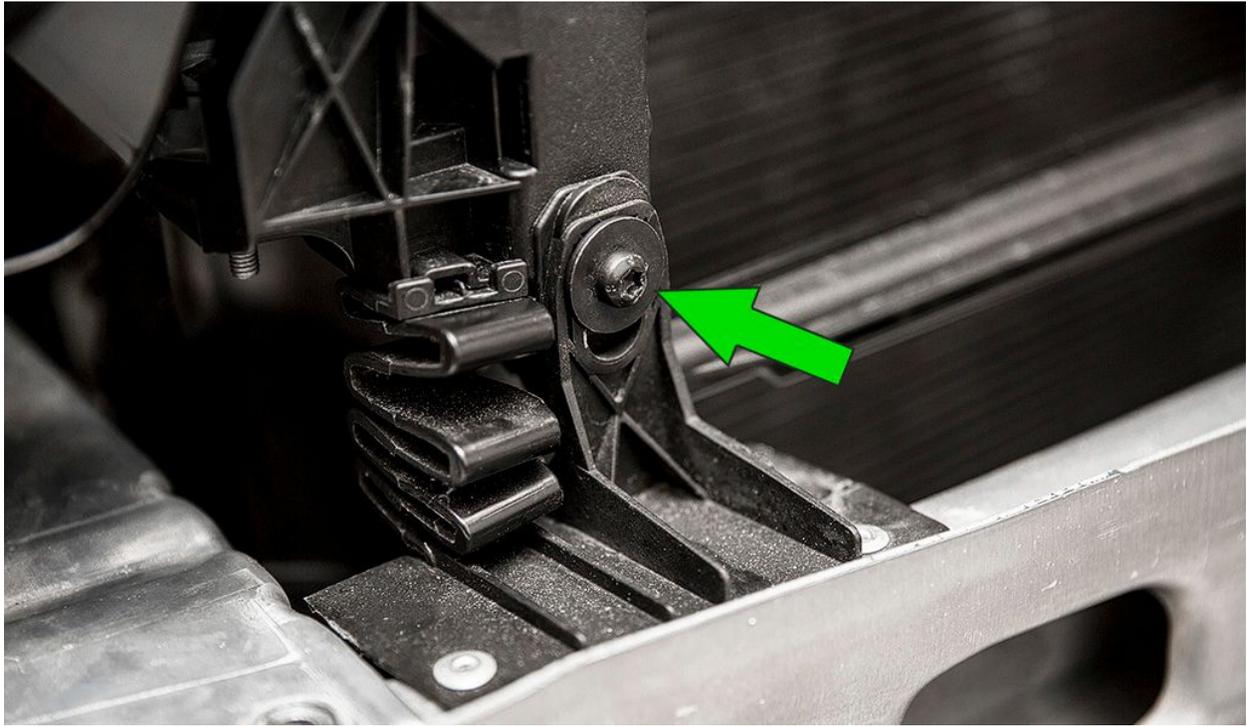
Unclip any harness connectors from located on the crash beam and set out of the way.



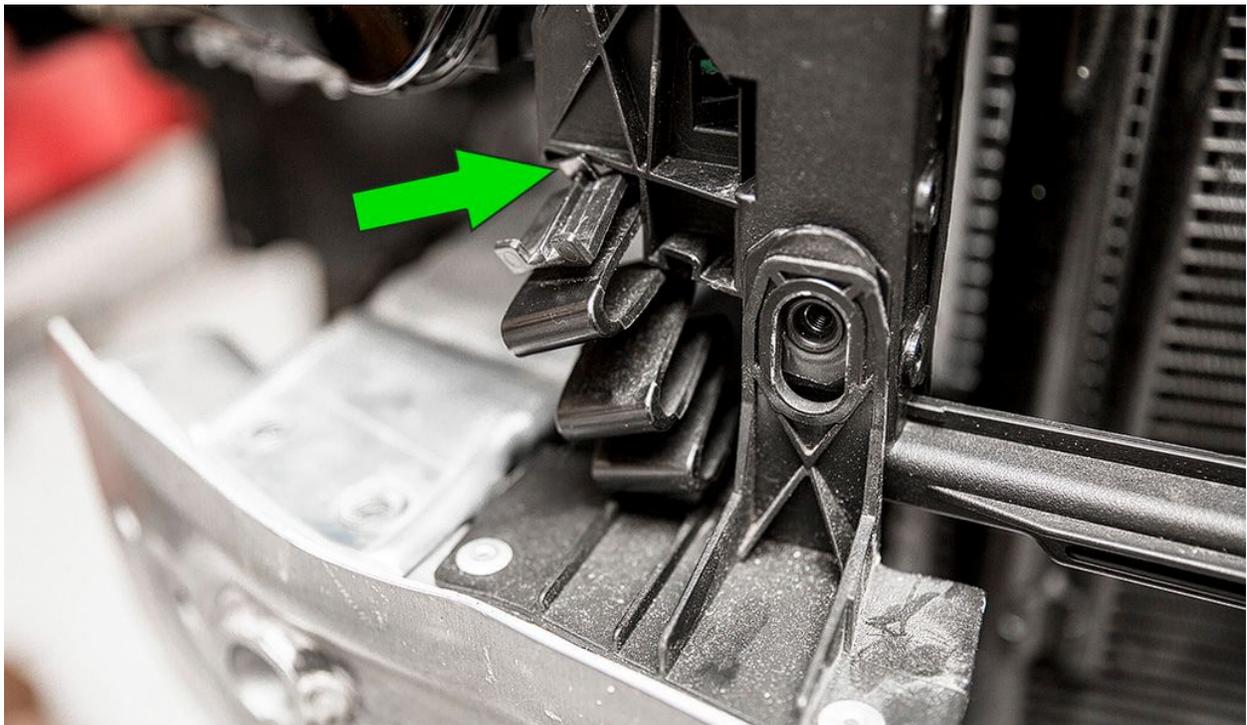
Remove the two nuts and two bolts from each side of the crash beam using a 13mm socket and wrench.



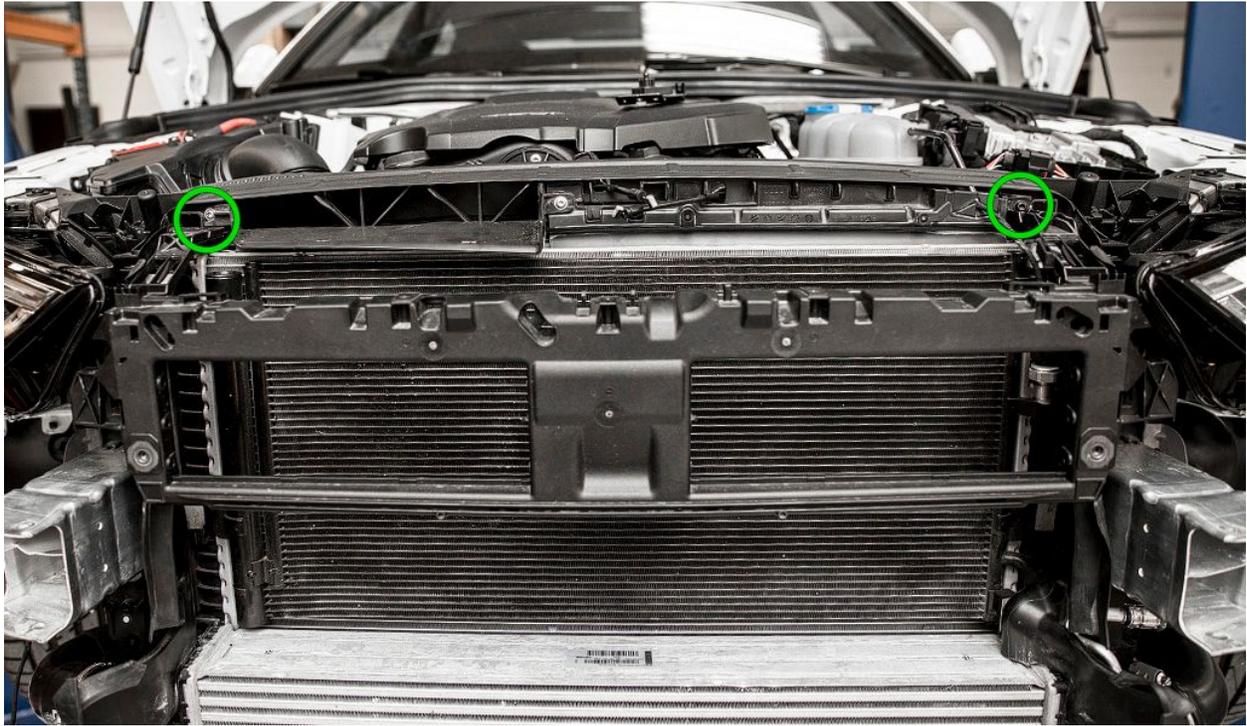
Remove the two T30 torx screws securing the crash beam to the plastic support bracket on both sides.



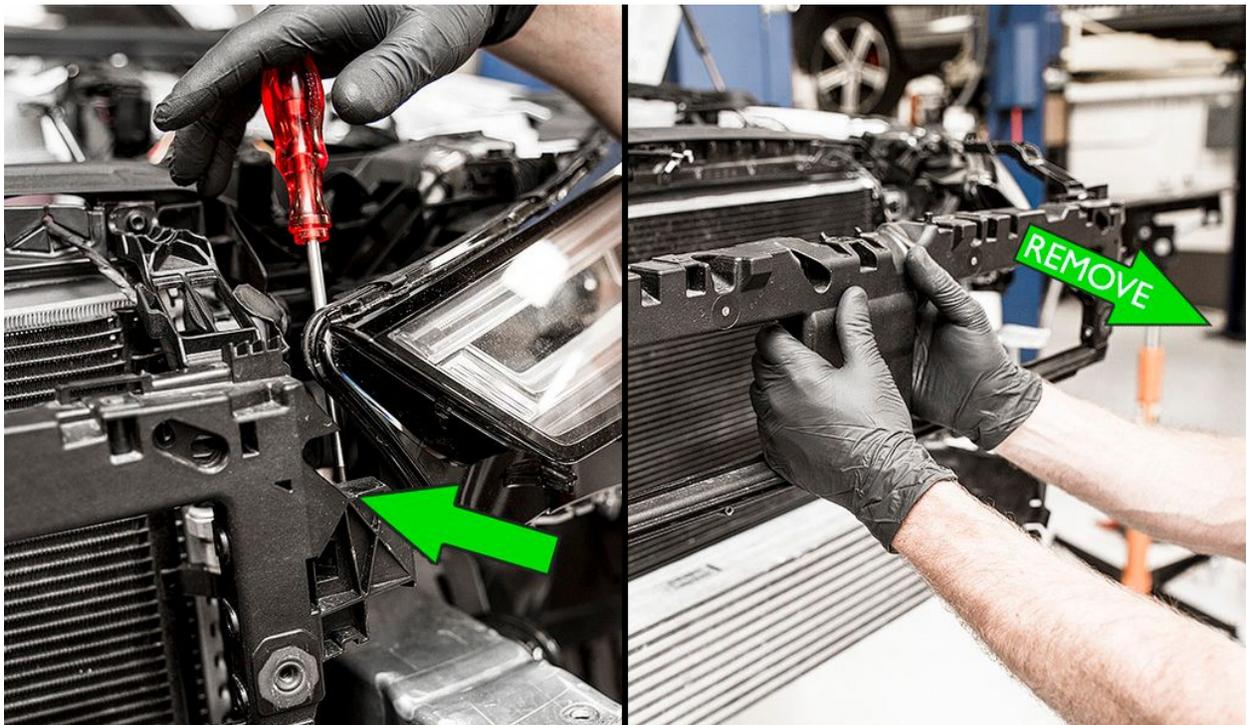
Release the two plastic spring clips by pushing down on the tab and pulling forward. Now you can remove the crash beam.



Remove the two upper T30 torx screws from the plastic support bracket.



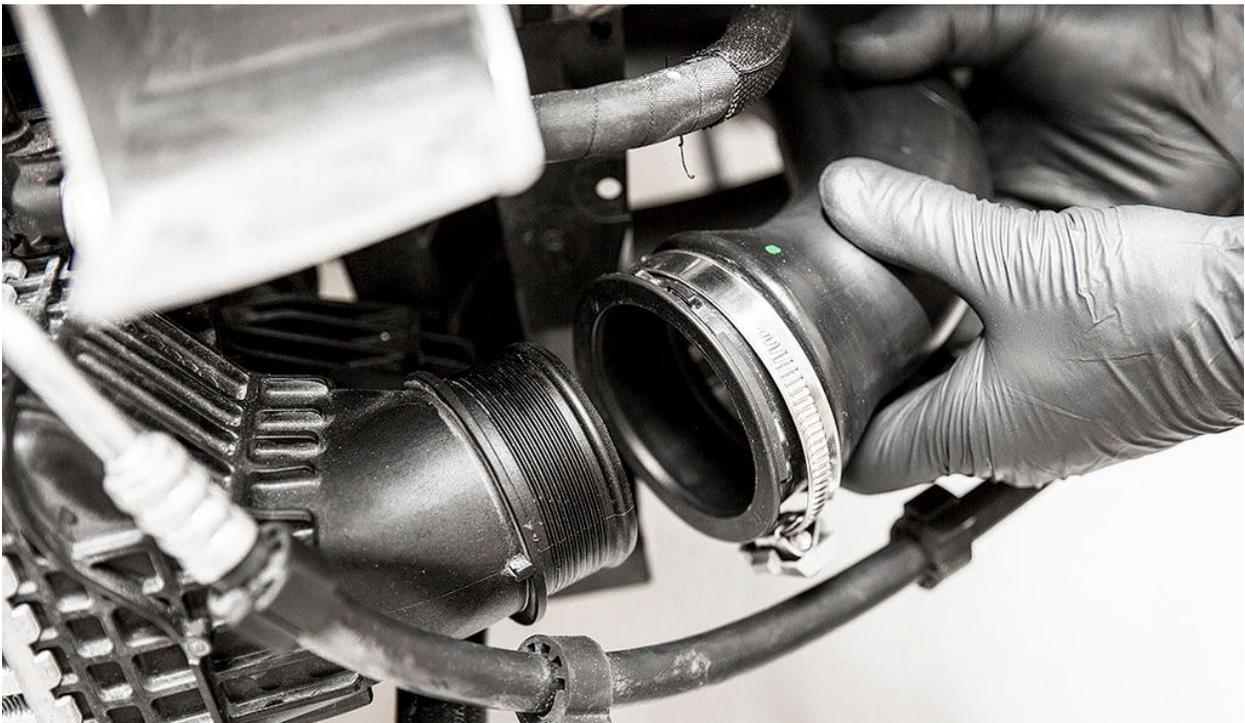
Using a long T30 torx driver, remove the remaining two T30 torx screws located in the center of the plastic support brackets on both sides, then fully remove the bracket assembly.



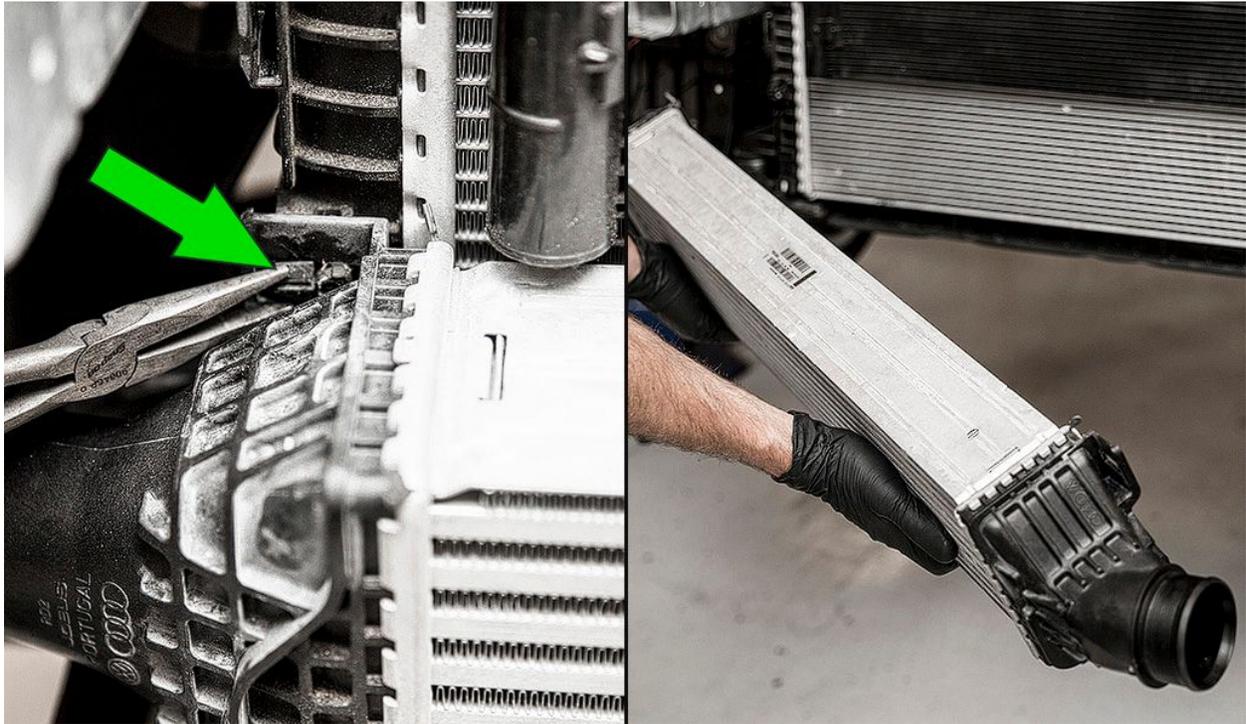
Remove the plastic air shrouds by pushing in on the two retainer tabs (one top, one bottom) and pulling forward. Repeat on both sides. Be careful to not damage the shrouds as you will need to re-install them on your new intercooler.



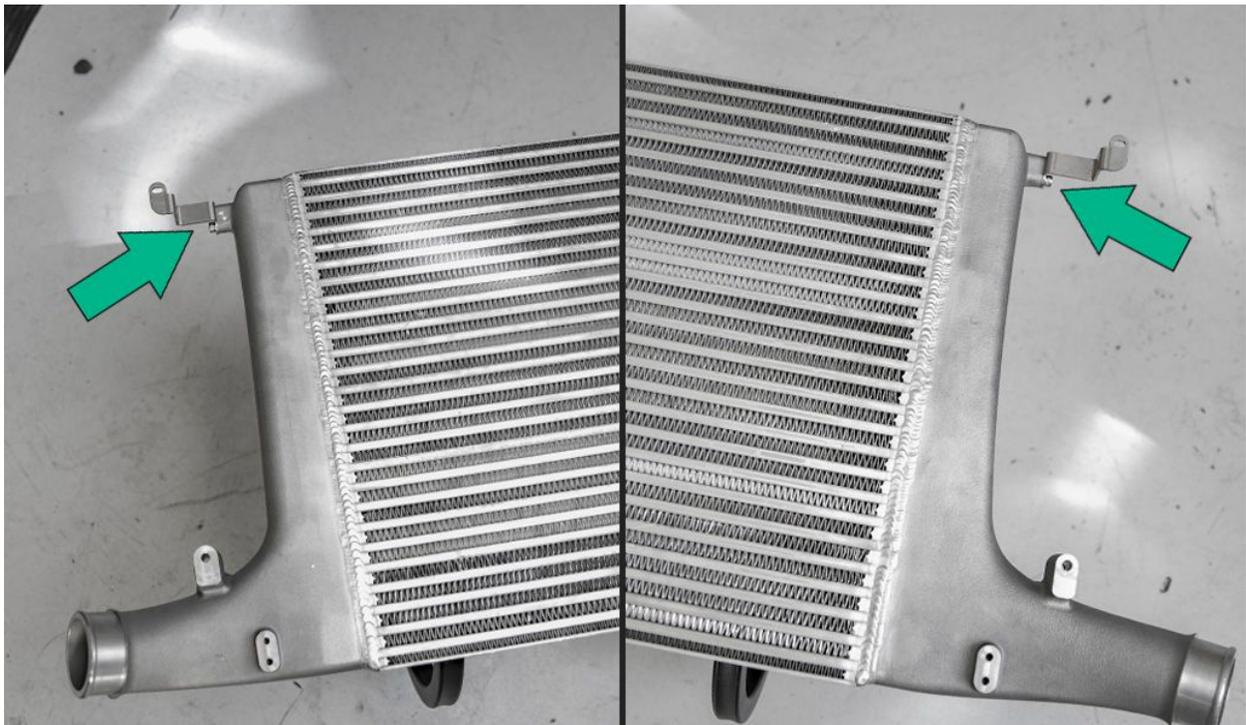
Loosen the stock hose clamps from the intercooler hose, then pull back to remove it from the OE intercooler. Repeat on both sides.



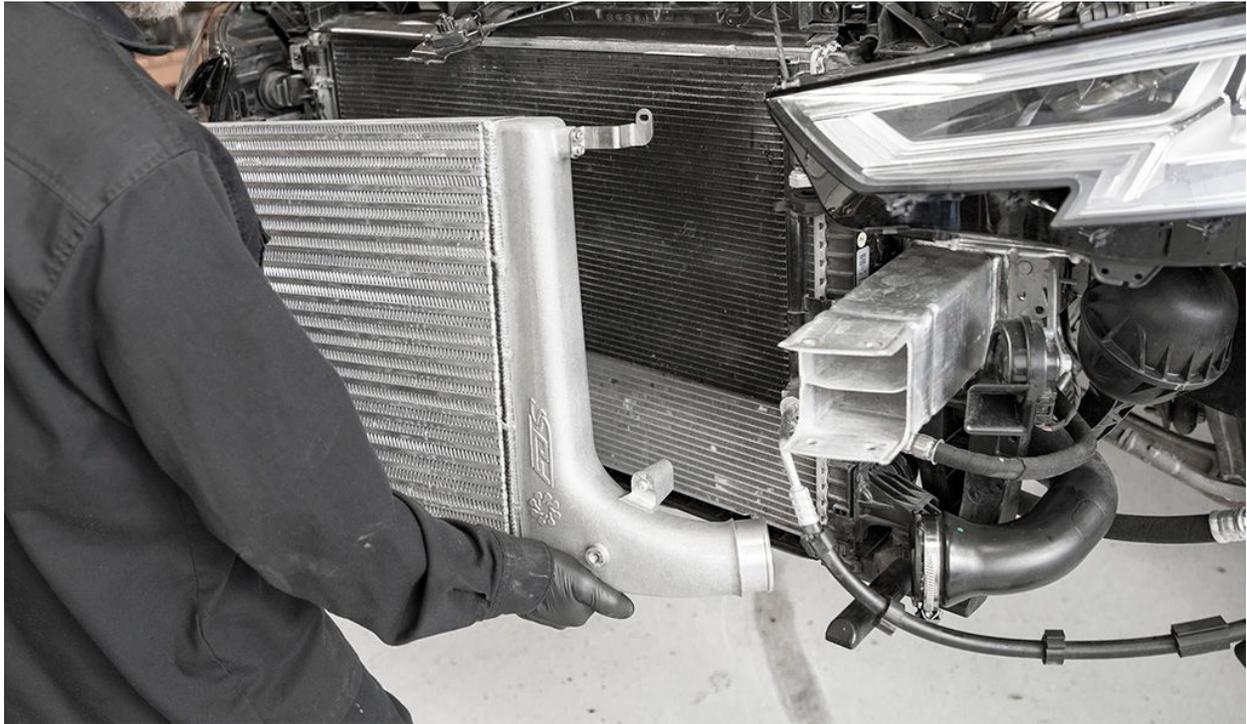
Using a pair of needle nose pliers, release the two pinch clips from the stock intercooler and remove it from the vehicle.



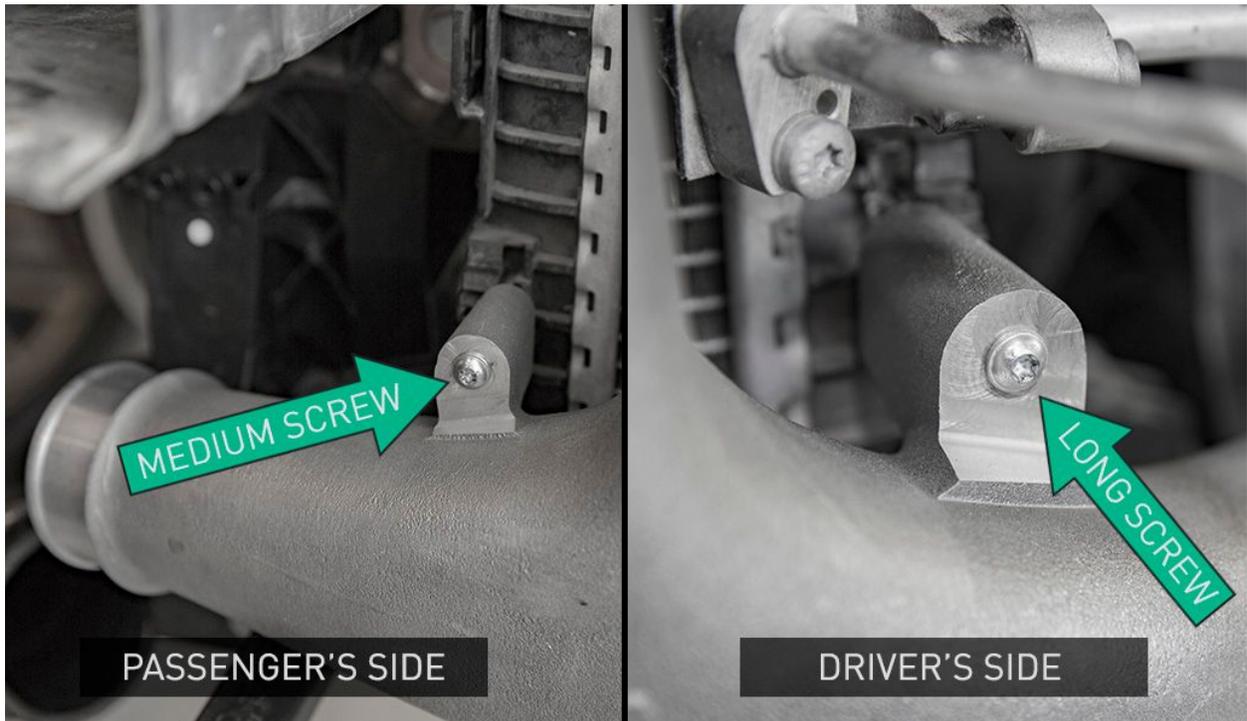
Using the 4 supplied allen bolts and 5mm allen wrench, install the support brackets to the IE FDS intercooler end tanks as seen below.



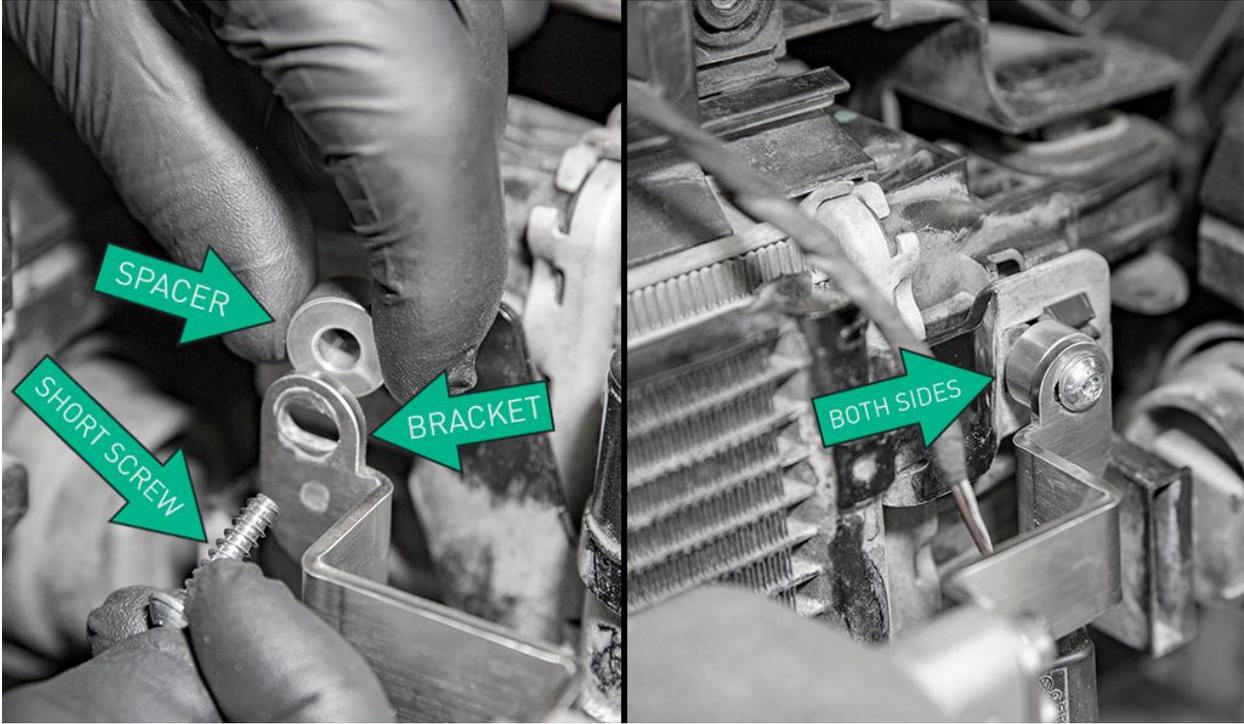
Align the intercooler onto the vehicle and support it in place. *Note: a second set of hands may help here.*



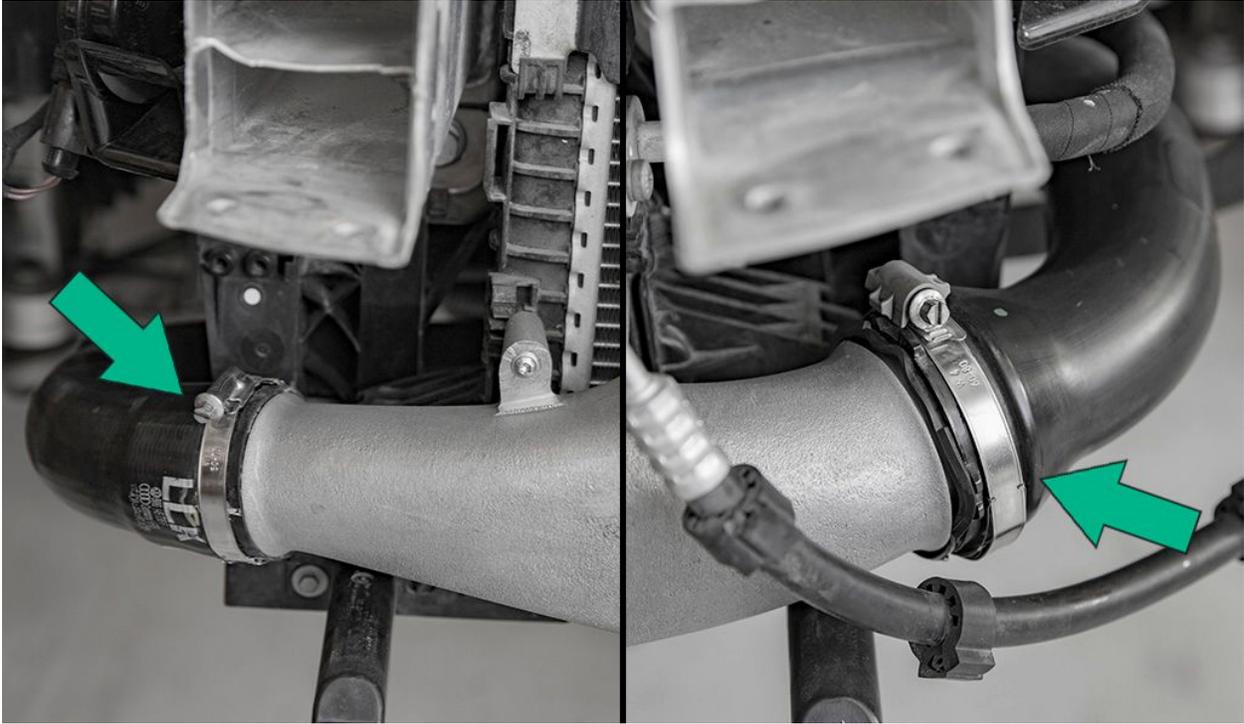
Install the lower mounts to the factory radiator using the supplied long (driver's side) and medium length (passenger side) screw bolts with a T25 driver. *Note: These screw bolts install to the factory plastic radiator end tanks, do not overtighten.*



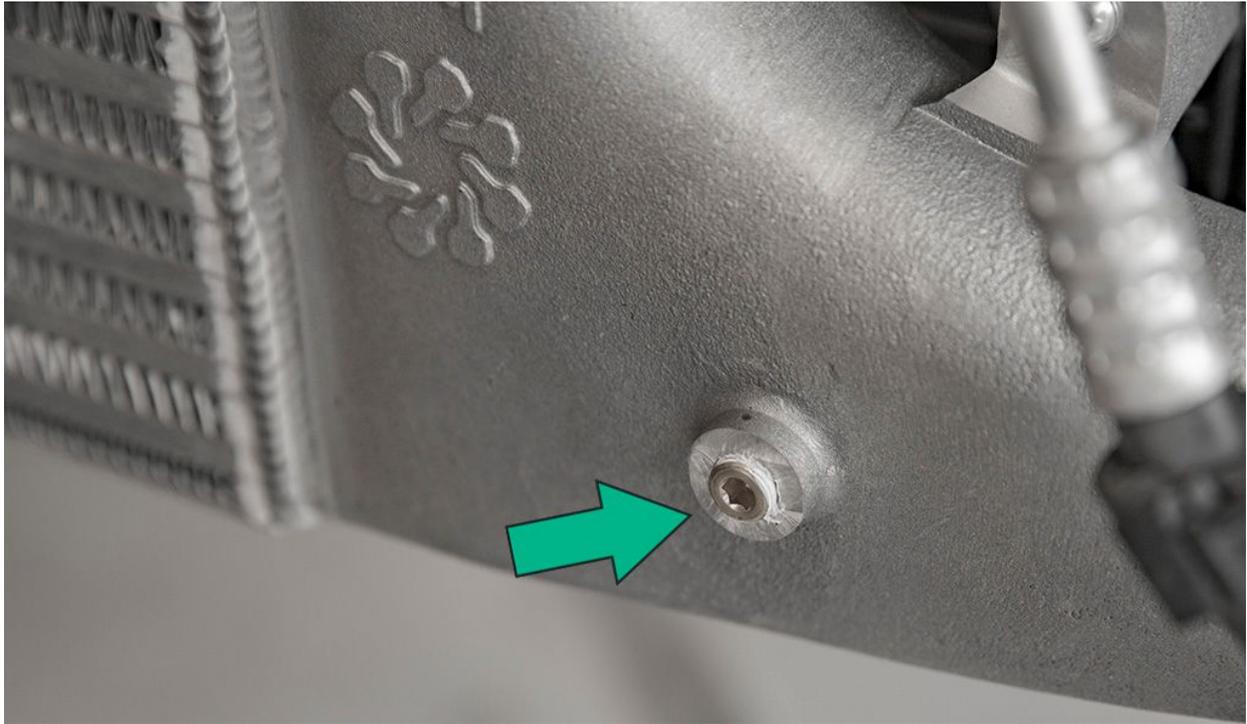
Insert the bracket spacers (2) and supplied short screw bolts (2) to fully secure the intercooler top brackets to the vehicle with a T25 driver.



Push the stock intercooler hoses back into place over the new IE FDS intercooler and tighten the hose clamps.



Install either a water methanol nozzle or the included plug with a 3/16" allen and thread sealant. begin reassembling the car by following the reverse of the procedure detailed above.



Confirm everything has been reinstalled and no leftover parts remain. Start the car and confirm that there are no air leaks in the system. Enjoy the benefits of more power from your IE FDS Intercooler!



Thank you for purchasing another Integrated Engineering product. We are dedicated to serving your VW/Audi engine and performance needs. Please check our website frequently for new product releases. If you have any questions or concerns about this product please do not hesitate to contact us.

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