



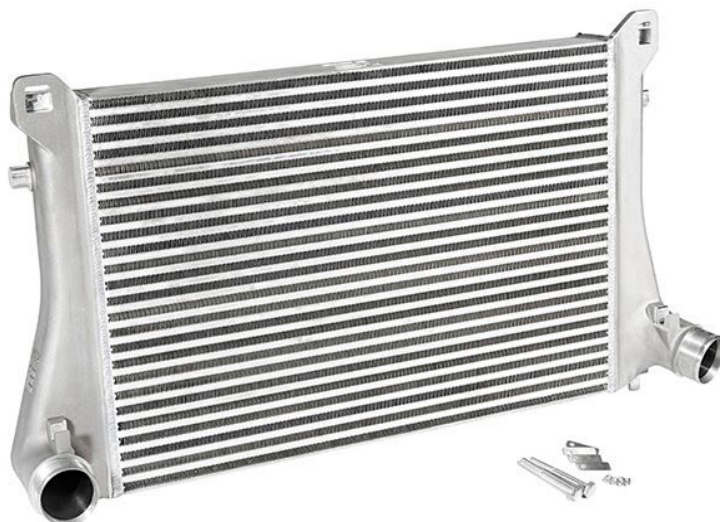
IE MK7/MQB 2.0T & 1.8T Gen 3 FDS Intercooler (V2) Install Guide IETPCI1B

Congratulations, you have purchased the best performing intercooler for VW / Audi MQB 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. by incorrect installation.

Included Components:

- 1X IE FDS Intercooler
- 4X condenser brackets
- 4X button head allen bolts
- 2X Service position securing bolts

Before you begin, open your IE Intercooler Kit, inspect all components, and verify their quantities. Read through this guide completely before you begin.



Park your car on level surface and apply the parking brake or rack your car on a auto lift. It is also recommended to allow the car to cool before beginning this install procedure.



Remove both front wheels as you will need access to the fender liners in order to remove the front bumper.



Remove the belly pan by removing the T25 torx screws that secures it in place.



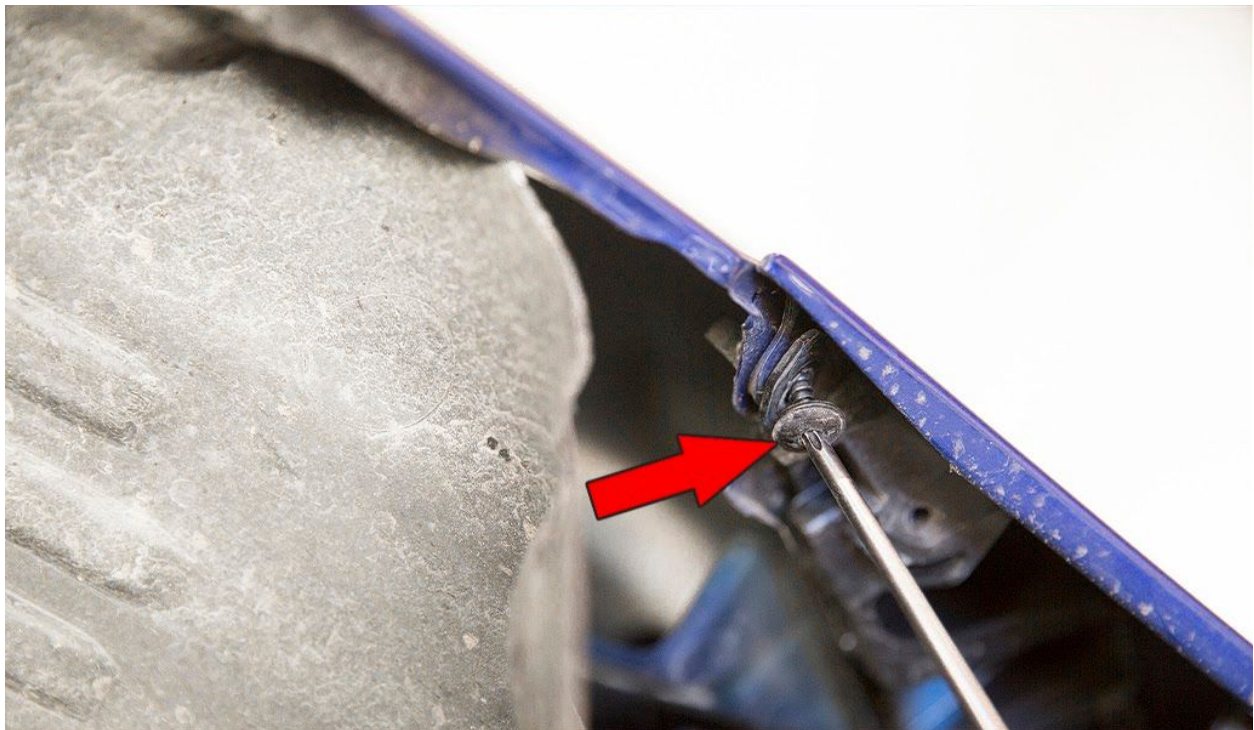
Remove the T25 torx screw from the underside of the bumper that secures it to the radiator



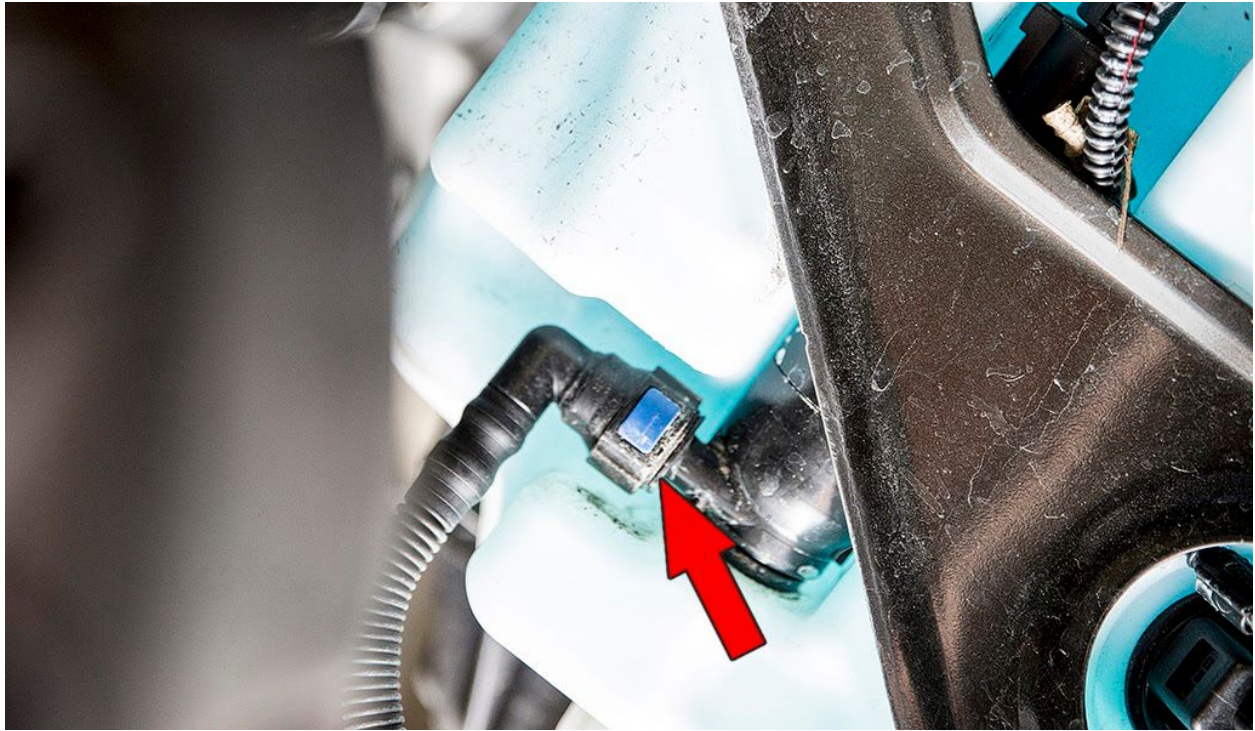
Remove the T25 torx screws in the wheel well that secure the front bumper. You can now remove the lower wheel liners.



Be sure to remove the torx located under the fender liner towards the top of the bumper. Repeat on both sides.



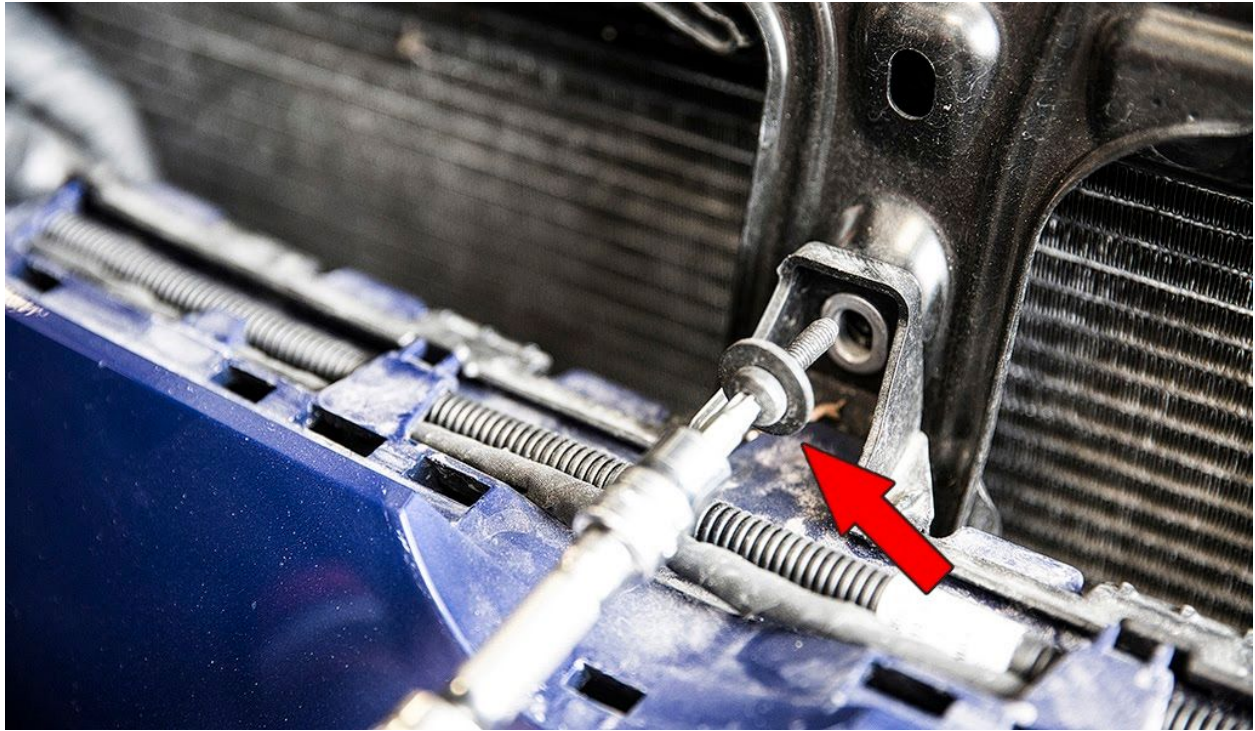
Remove the headlight washer fluid line (located on the passenger side of LHD cars) by squeezing the blue tabs on the fitting.



Remove the T25 torx screws on the top of the grill. Once they are removed, pull forward slightly and then lift straight up to remove the grill.



Remove three T30 torx screws in the center to release the bumper from the radiator support bracket.



Pull out the outer top edge of the bumper to release the fender clips. Use caution during this step to not break the plastic clips that fasten the bumper.



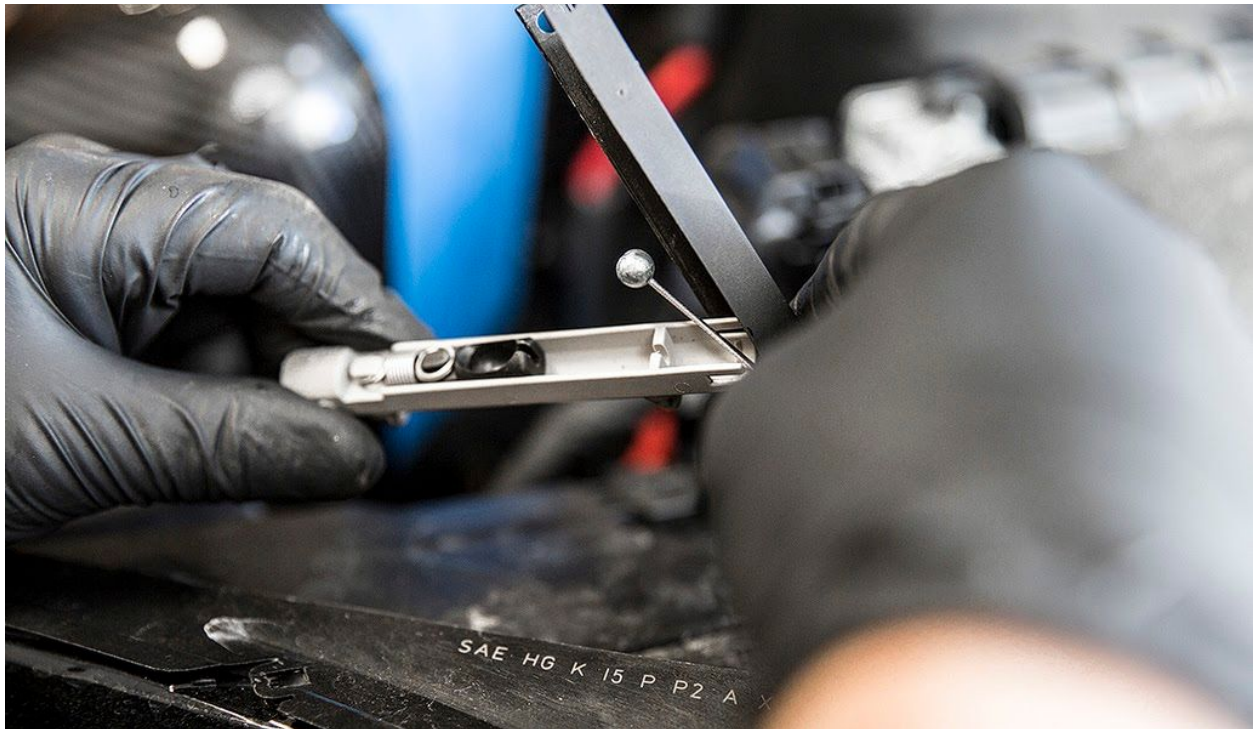
Pull the front bumper forward and disconnect any/all electrical connectors for fog lights, air temperature, parking sensors, etc...



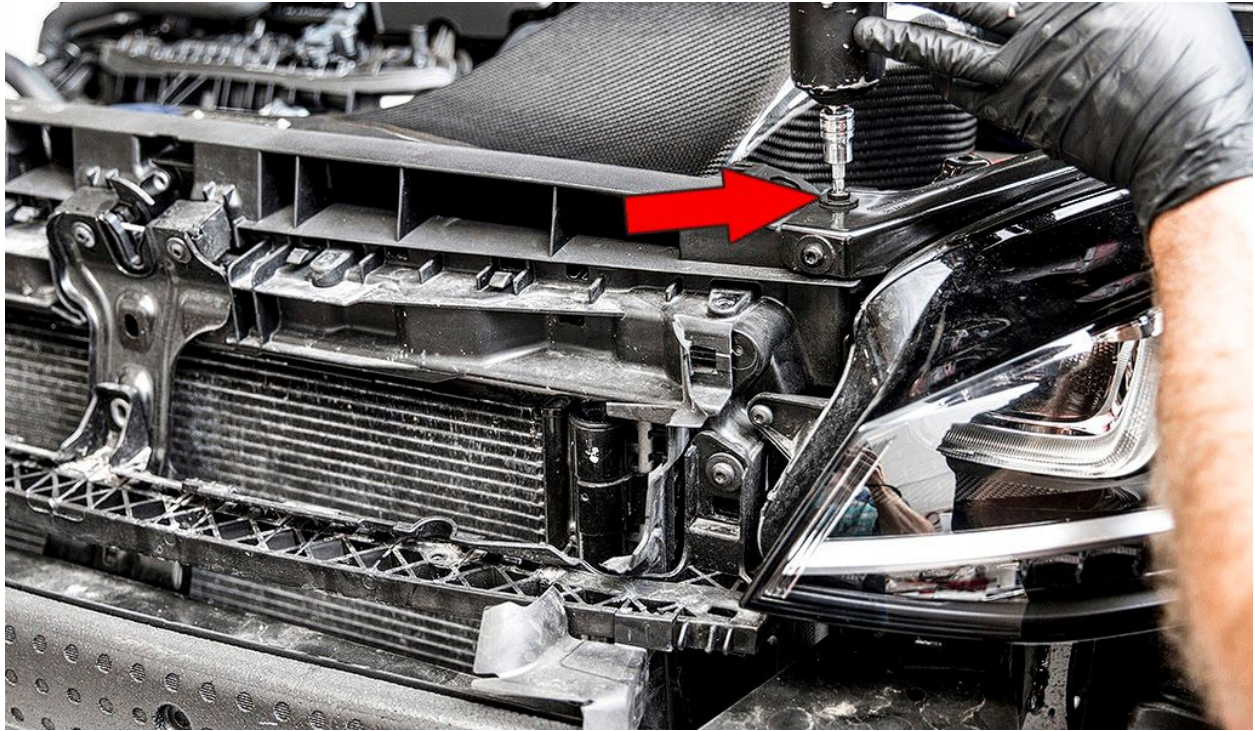
With all electrical connectors disconnected, carefully remove the bumper as set aside.



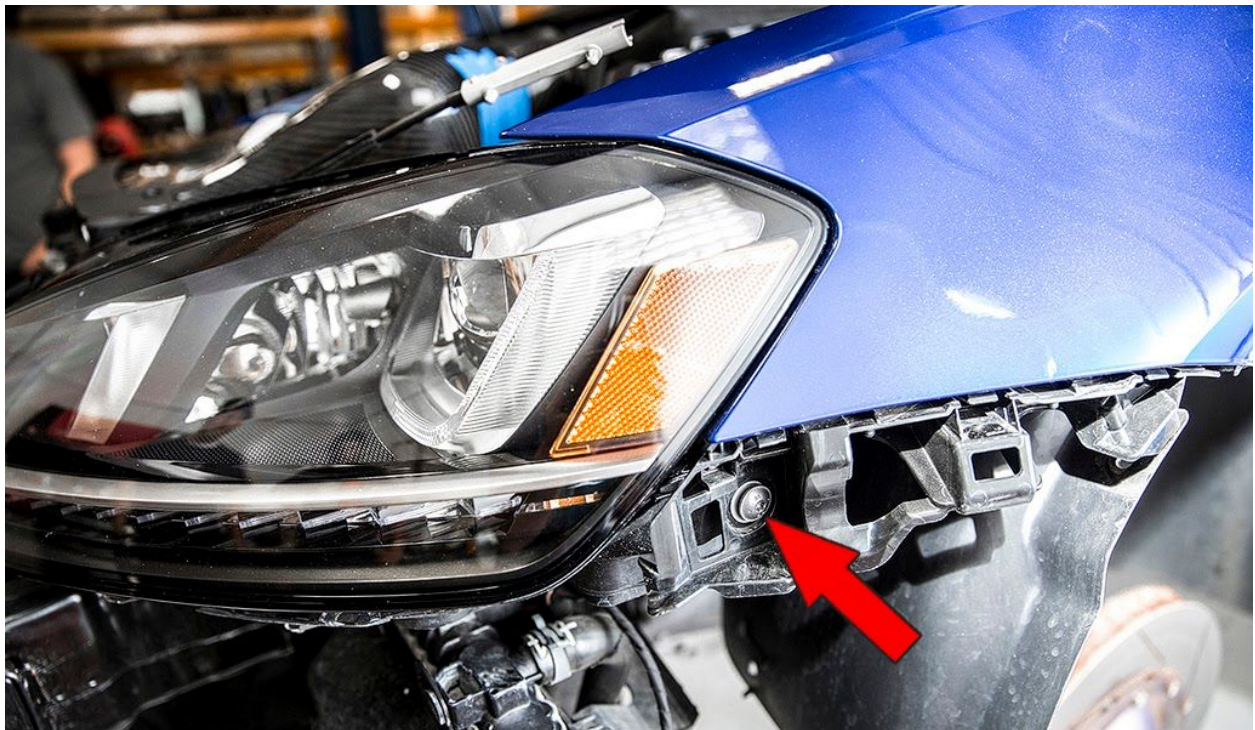
Disconnect the hood release cable link.



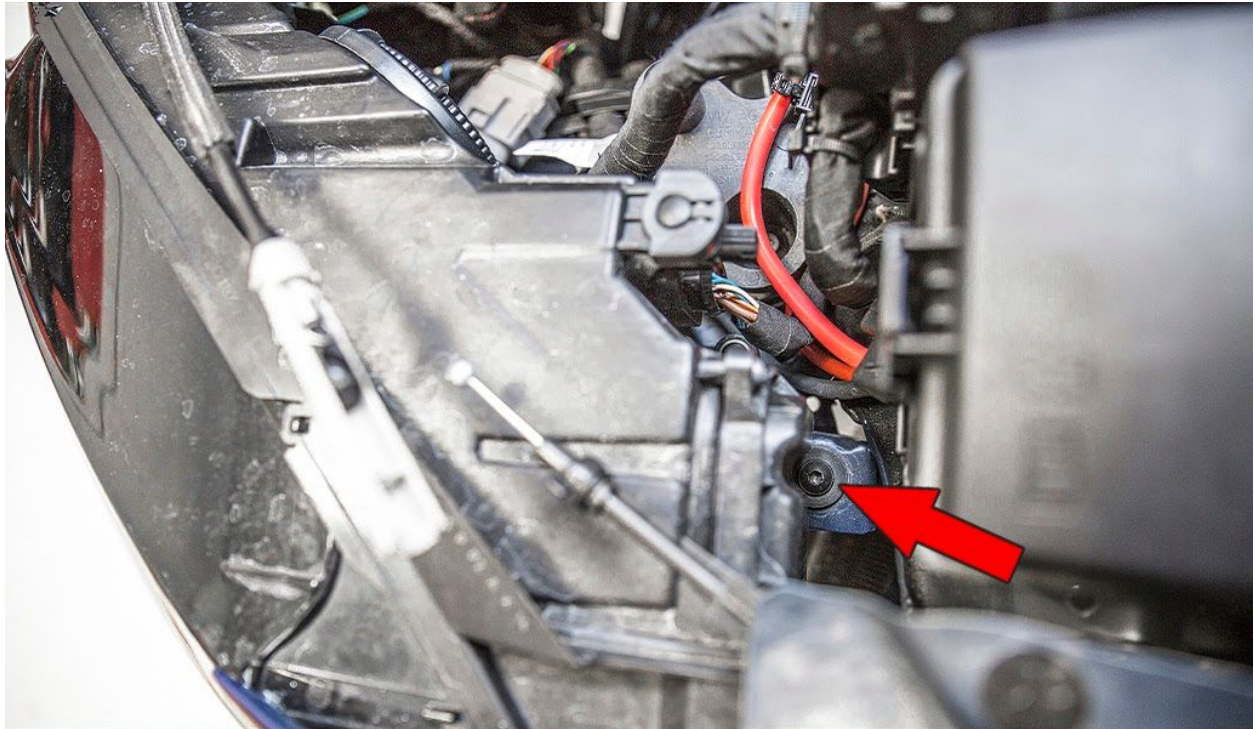
Remove the 3 T25 torx screws and remove the upper headlight bracket, repeat on both sides.



Remove the T30 torx screw securing the outside of the headlight to the bumper bracket. Repeat on both sides.



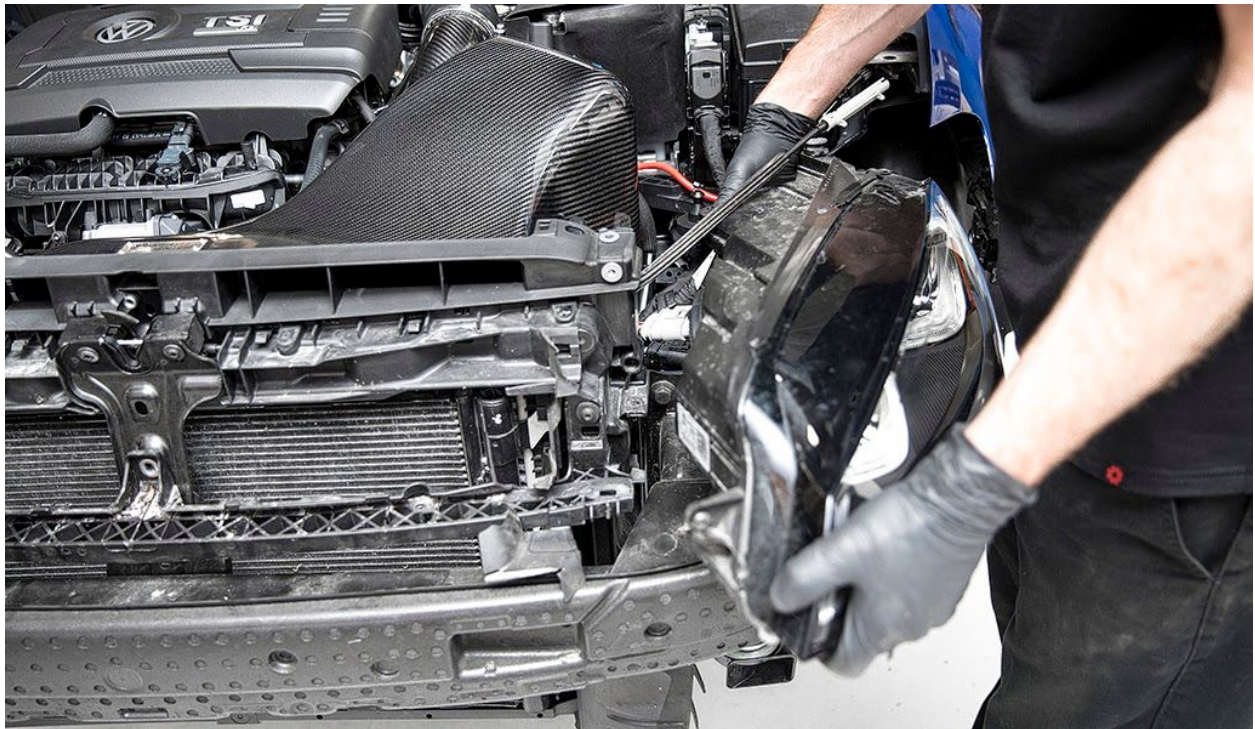
Remove the two T30 torx screws from the engine bay side of the headlight.



Disconnect the headlight connectors.



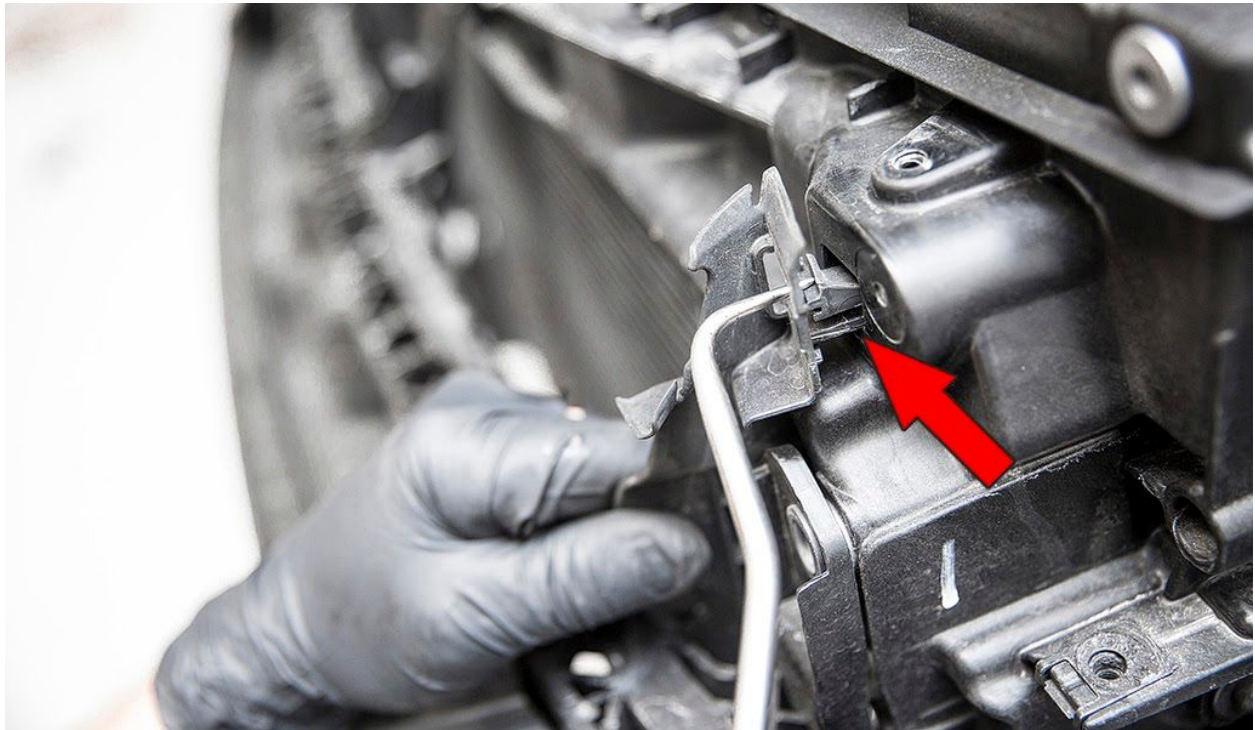
Pull to remove the headlights.

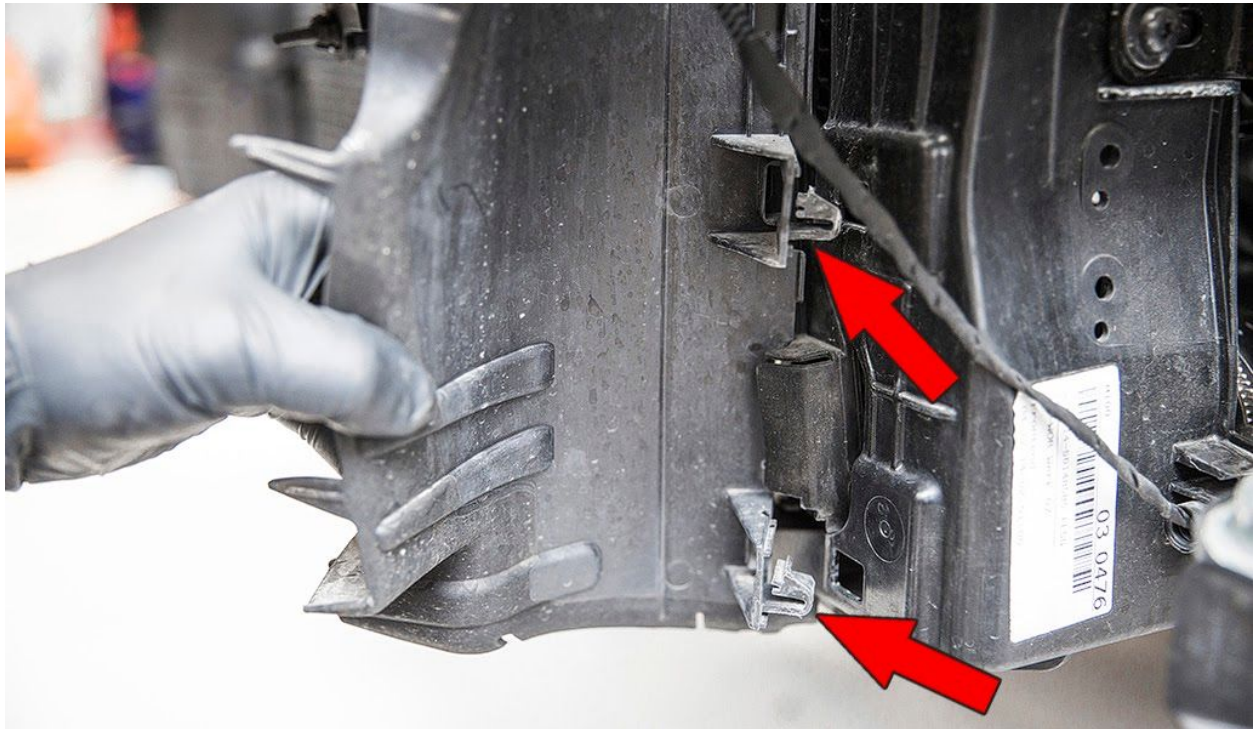


Remove stock air box or aftermarket intake from the engine bay. In this case we removed the IE MK7 MQB intake.



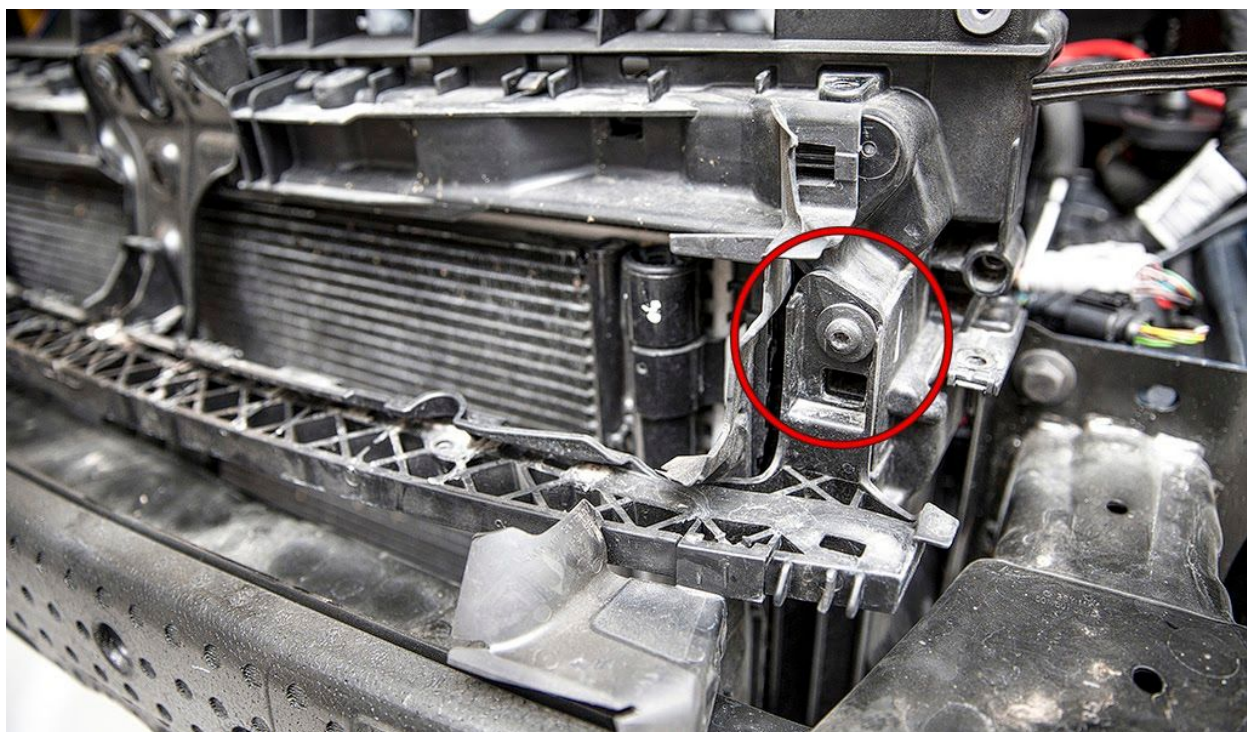
Remove the three clips (one on top, two on bottom) that fasten the plastic air guides that bolt to both sides of the radiator support

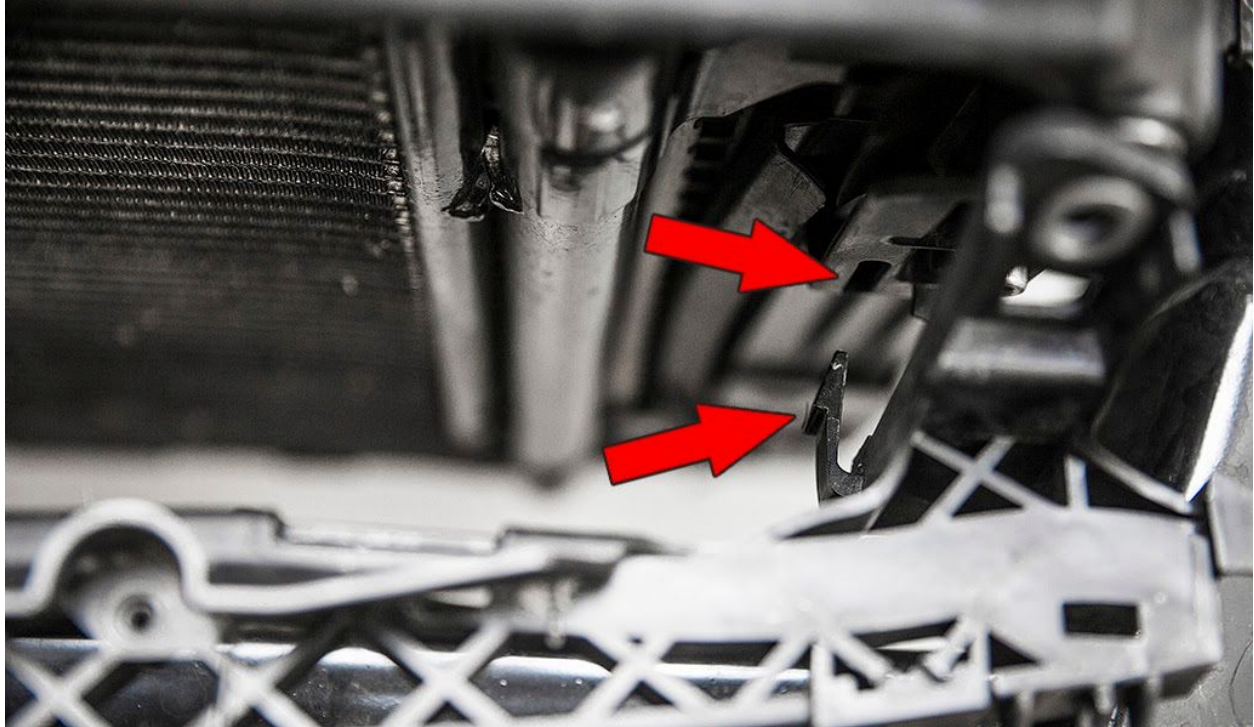






To fully remove the bumper support bracket, remove the two T30 torx screws remaining on the outside of the support. Release the two push tabs on the inside of the support. Be careful when removing to not break plastic components on the bumper support bracket.

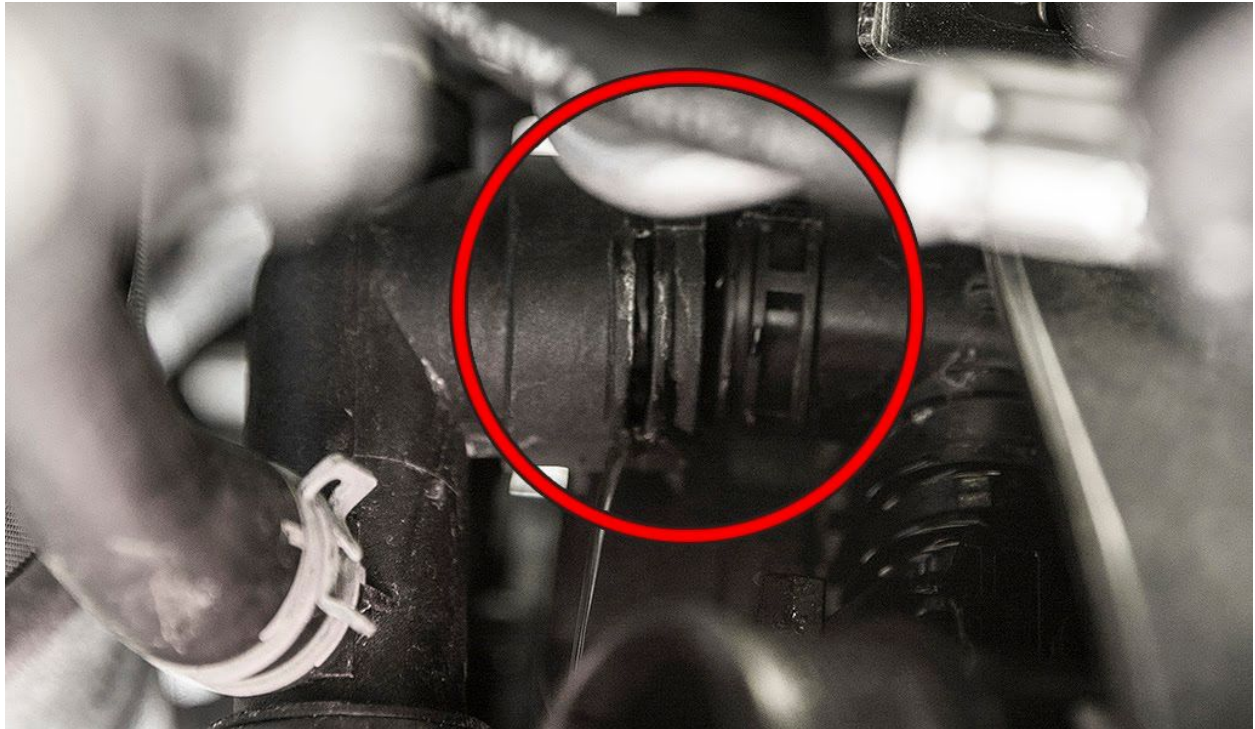




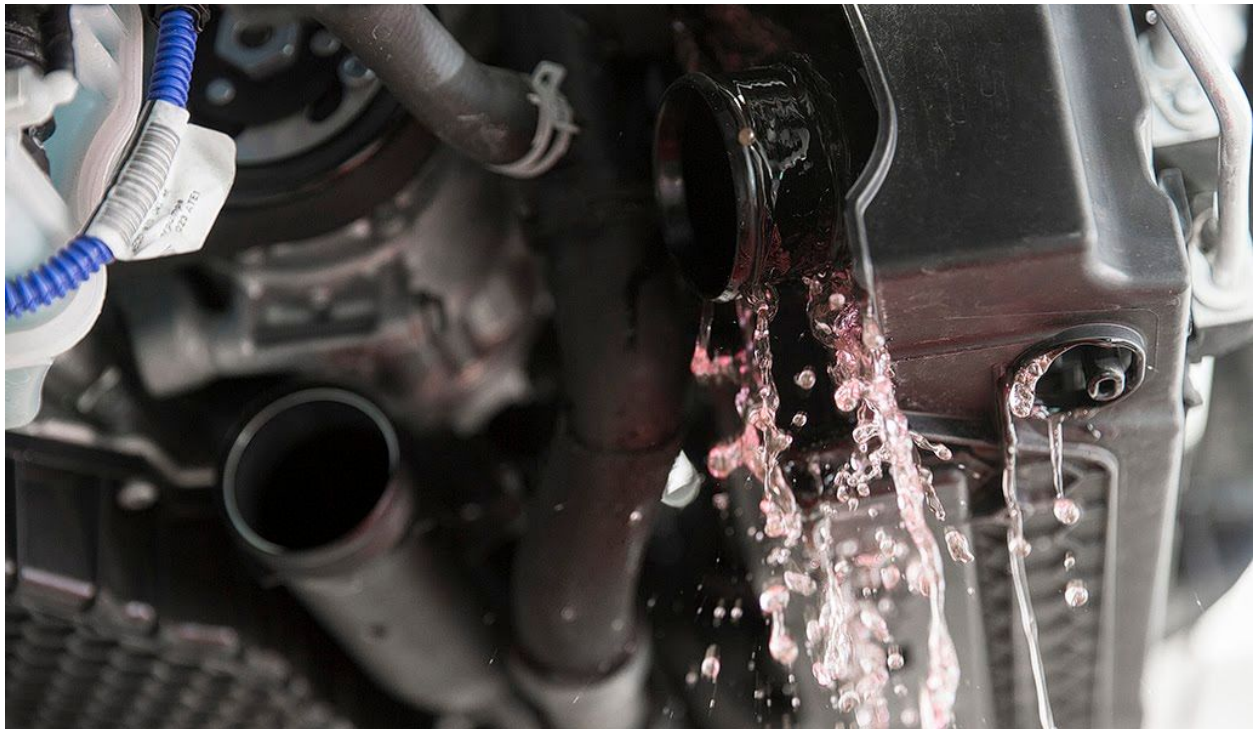
Disconnect both intercooler charge pipes from the intercooler. Use a 7mm socket to loosen the hose clamps.



Remove the spring clip from the lower radiator hose.



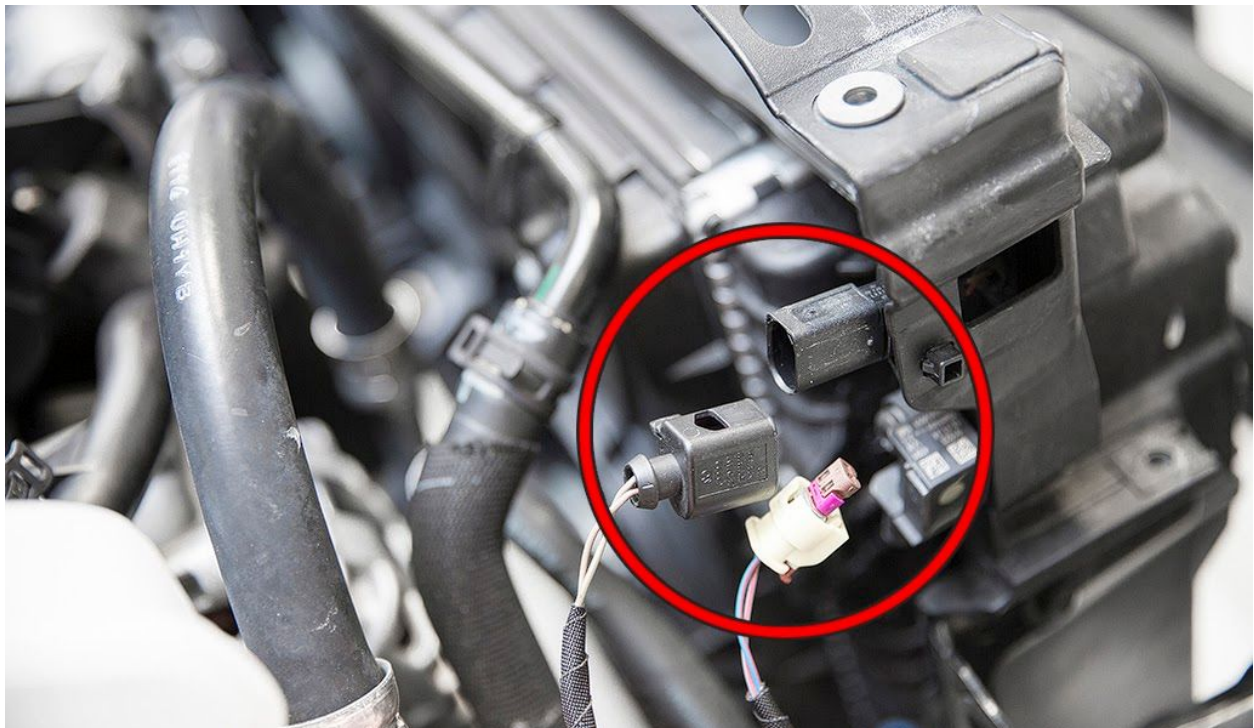
Pull the radiator hose off to quickly drain the coolant from the radiator.



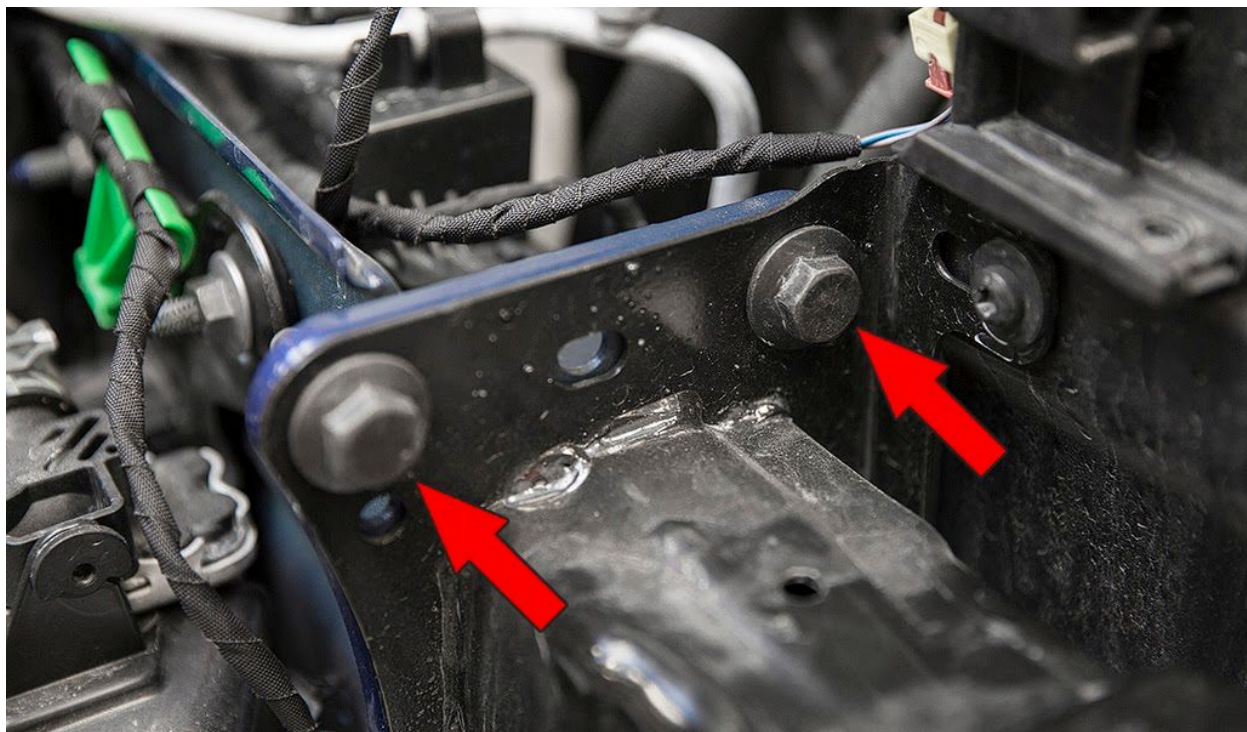
Detach the spring clip from the upper radiator hose and pull back to disconnect it from the radiator.



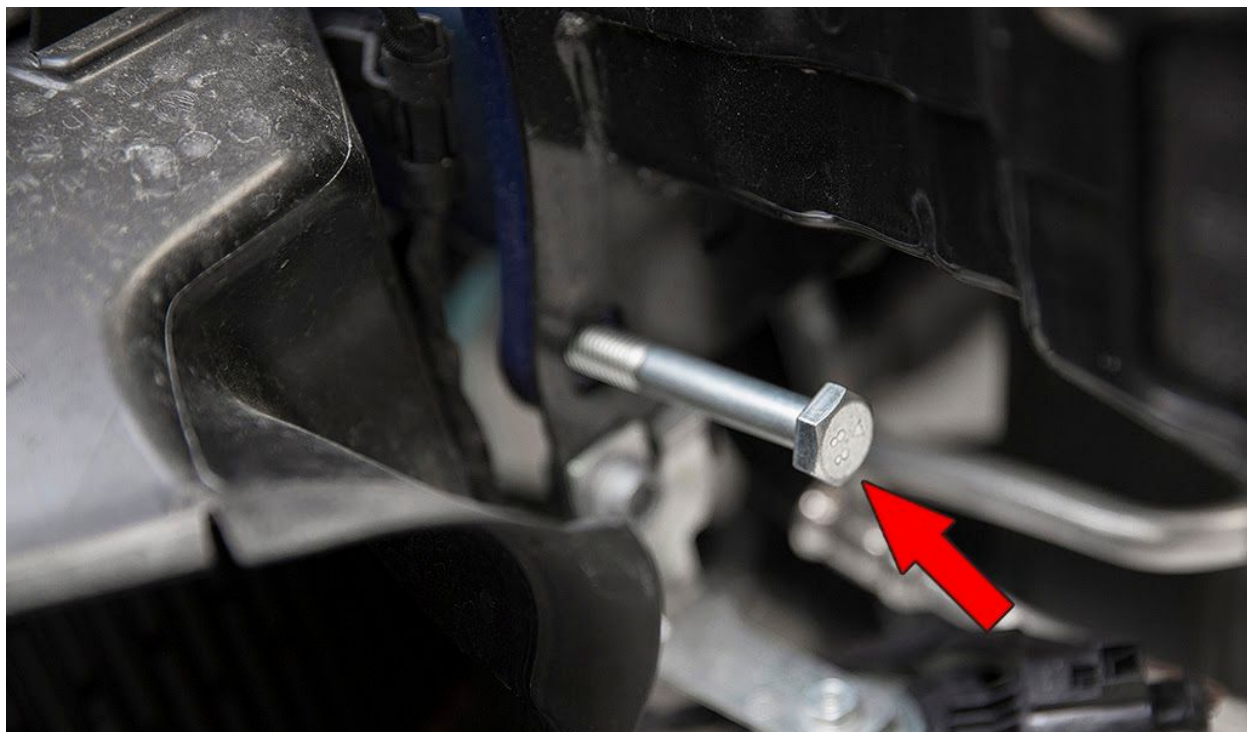
Remove the three connectors from the radiator support. There are two yellow connectors and one black connector located at the top of the radiator support. Be sure there are no electrical connectors still attached to the radiator support.



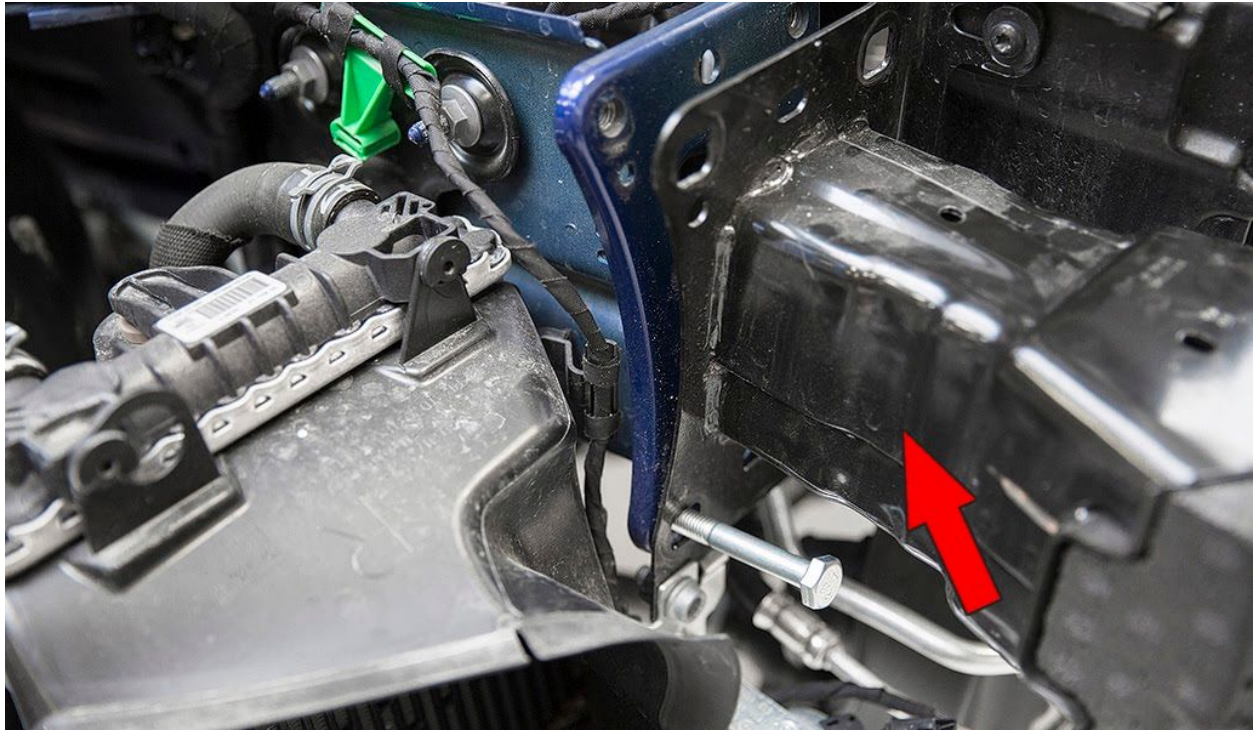
Remove three of the four 16mm bolts that attach the crash beam to the frame rails. Repeat on both sides.



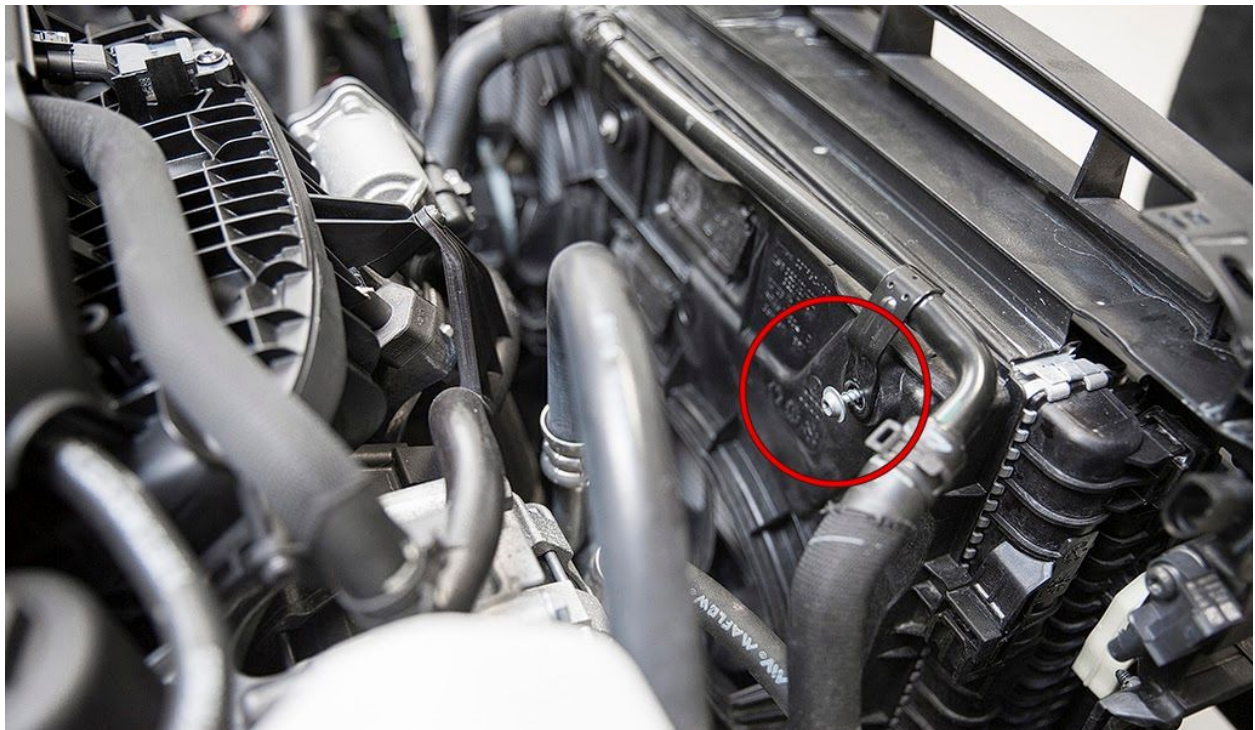
Thread the included support bolts in by hand into outside bottom corners of the frame rails on both sides.



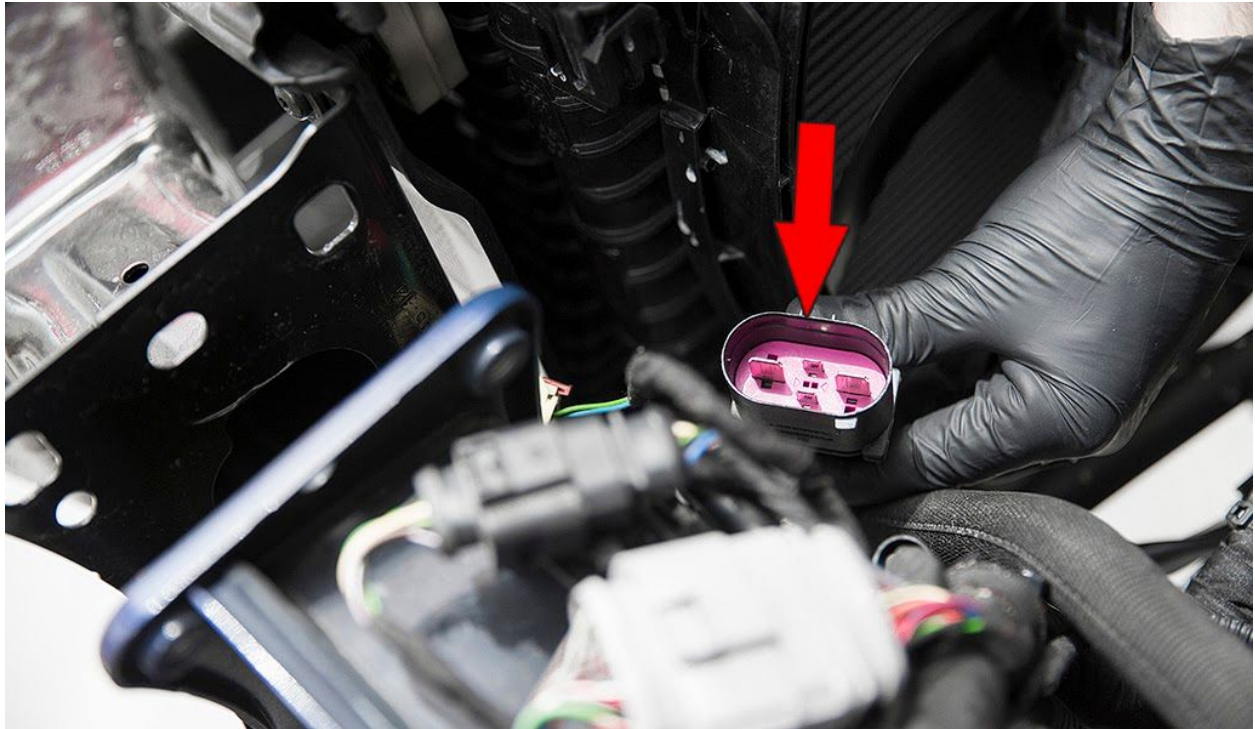
Remove the final 16mm bolt securing crash beam to the frame horns. The radiator support will now tilt forward into service position.



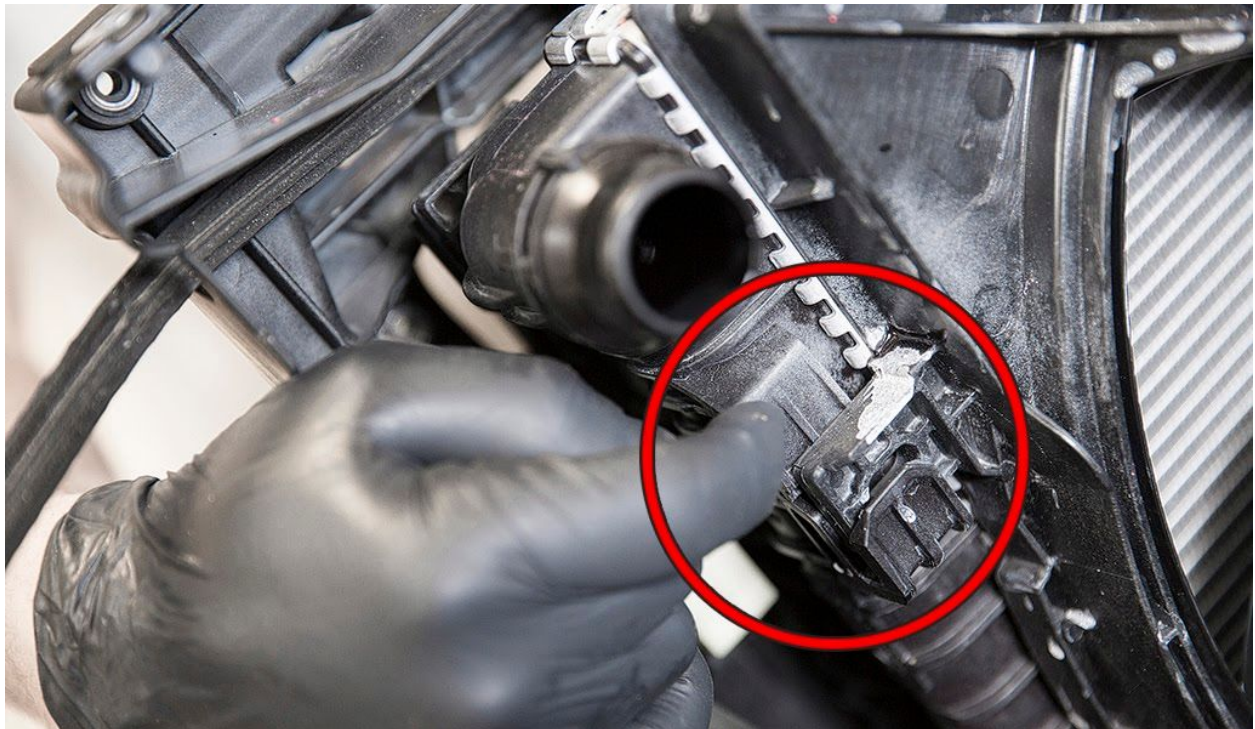
Remove the two T30 screws securing the coolant pipe located in front of the intake manifold to the radiator fan.



Disconnect the cooling fan connector.



Press the locking tabs on the radiator fan to release it from the radiator.



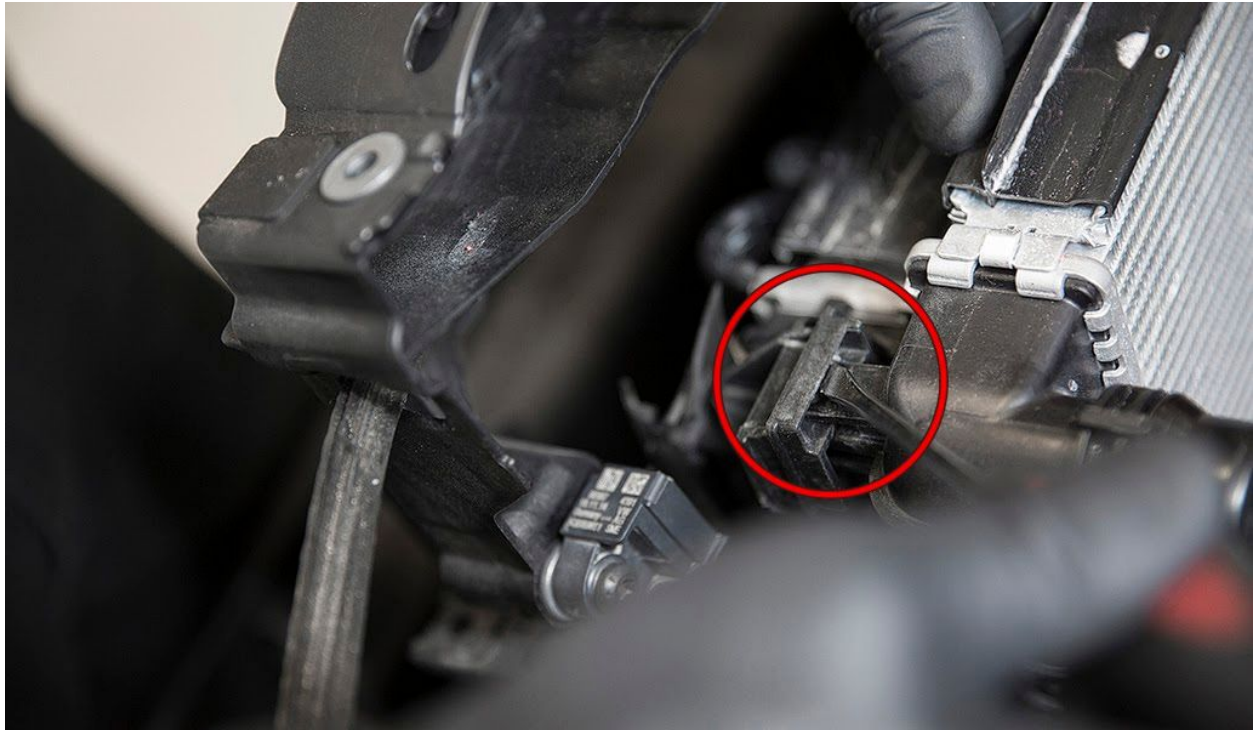
With the radiator fan disconnected, pull up to remove it from the vehicle.



Release intercooler mounting tabs from the front of the car. The AC condenser, intercooler, and radiator will now be able to slide back and away from the core support.



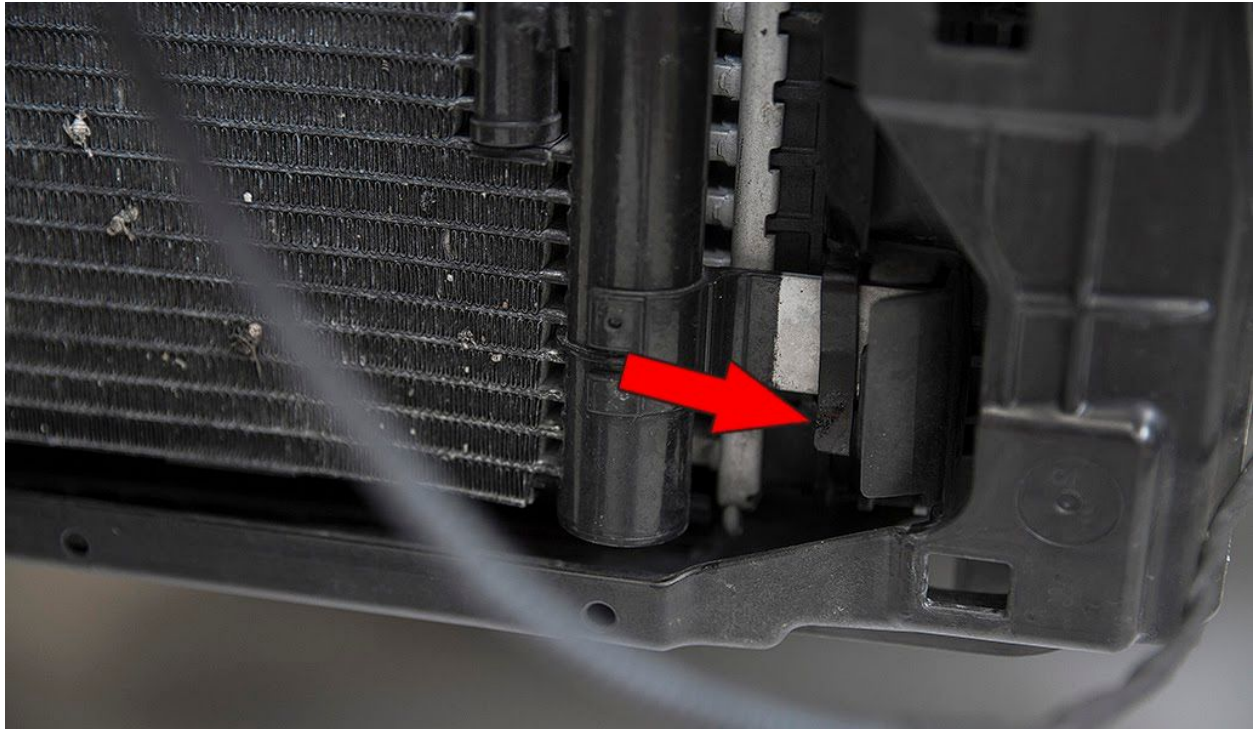
Press down on the radiator securing tabs from the top of the intercooler with a flat head screwdriver and pull the radiator away from the IC.



Remove the radiator from the vehicle.



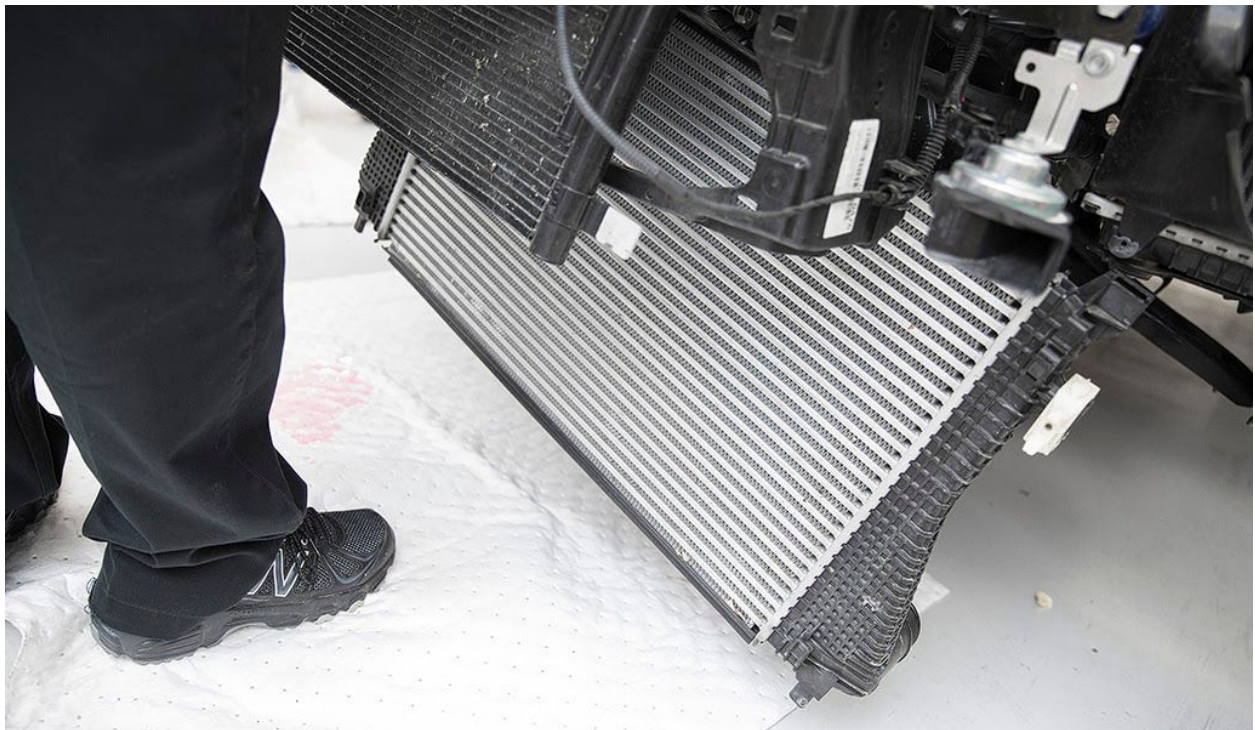
Remove the two air guides from the front of the condenser. Remove these by releasing the tab located on the bottom.



Depress the tab on the intercooler end tank and pull up to release the condenser from the intercooler. Leave the condenser in radiator support.



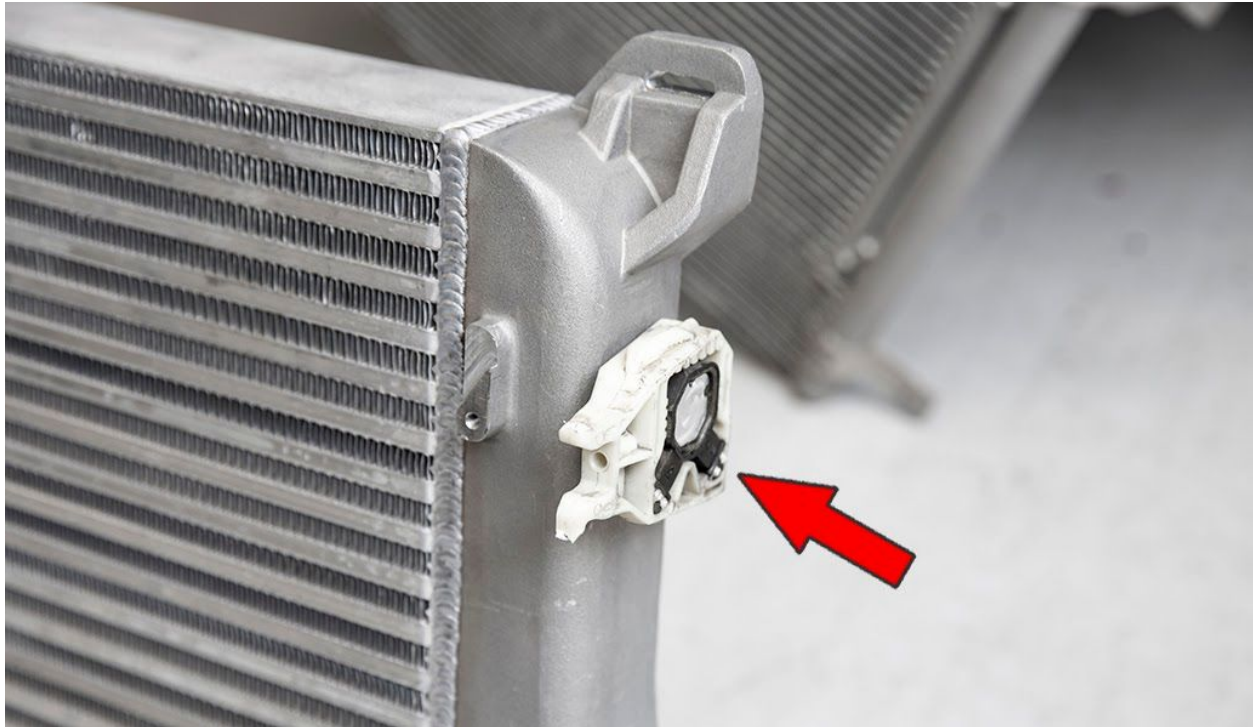
Carefully remove the intercooler by lowering it from the car.



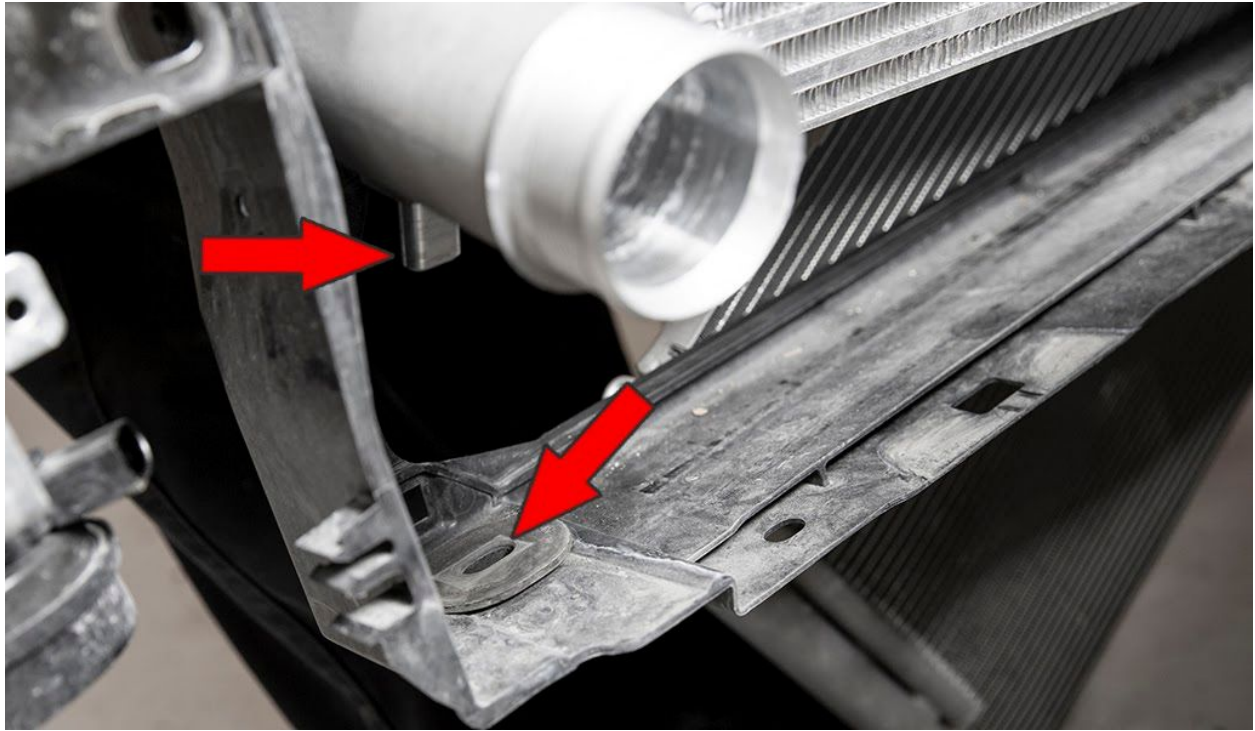
Remove the two intercooler mount brackets from the side of the stock intercooler. Keep these for the next step.



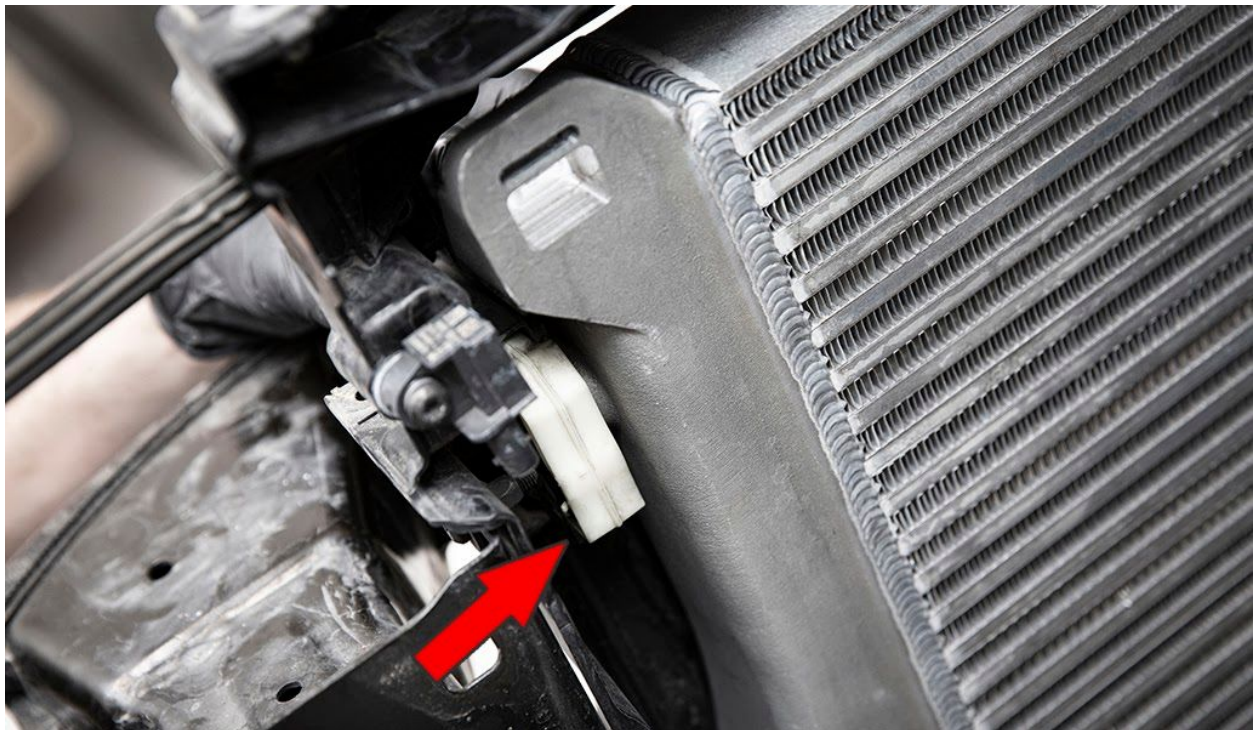
Reinstall the mount brackets in the same orientation onto your new IE intercooler.



Begin to install the IE intercooler into place by lining up and inserting the locating tabs on the bottom of the intercooler into the rubber grommets on the core support.



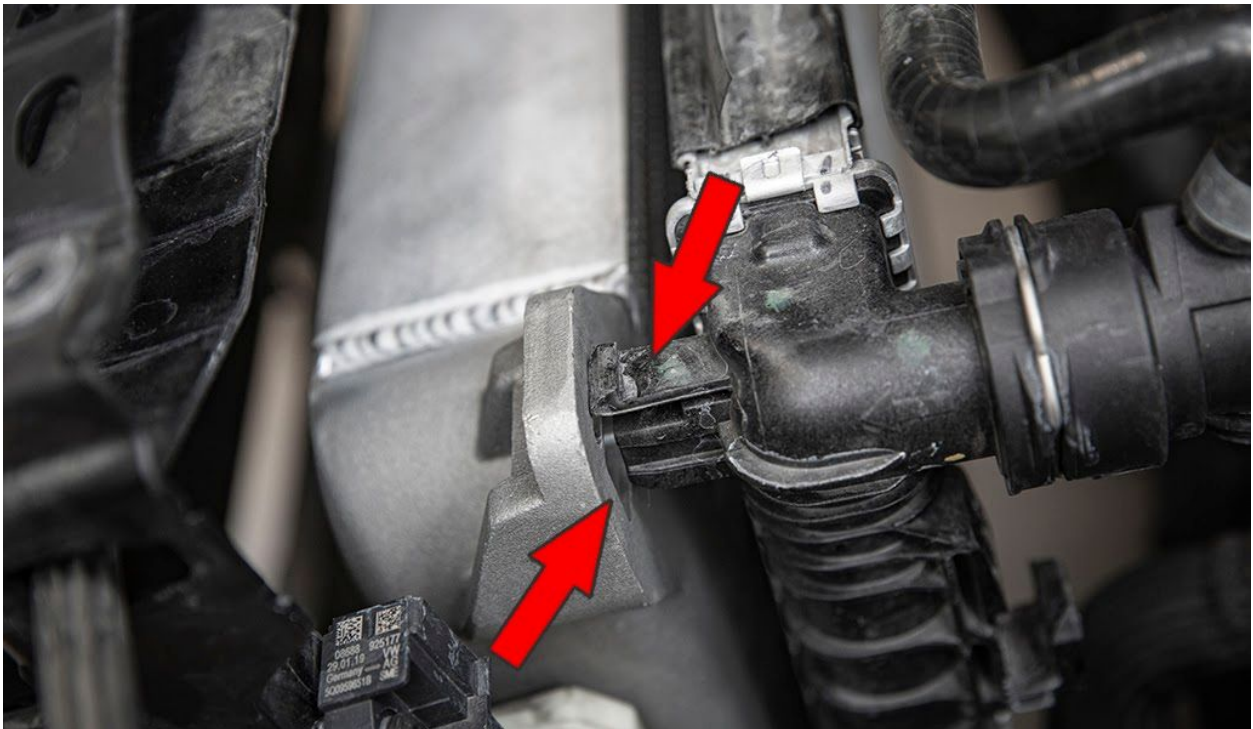
Press to reinstall the front mount brackets back into the core support.



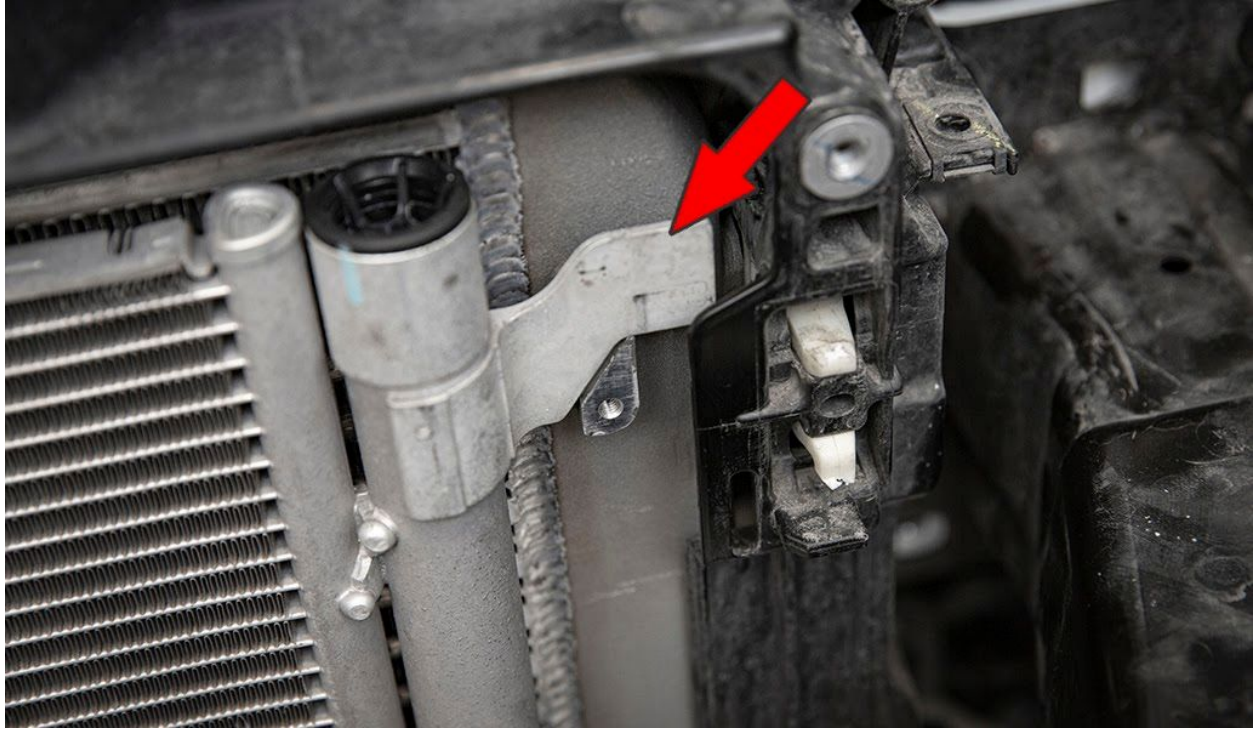
Slide the radiator into the bottom radiator mounts on the IE intercooler.



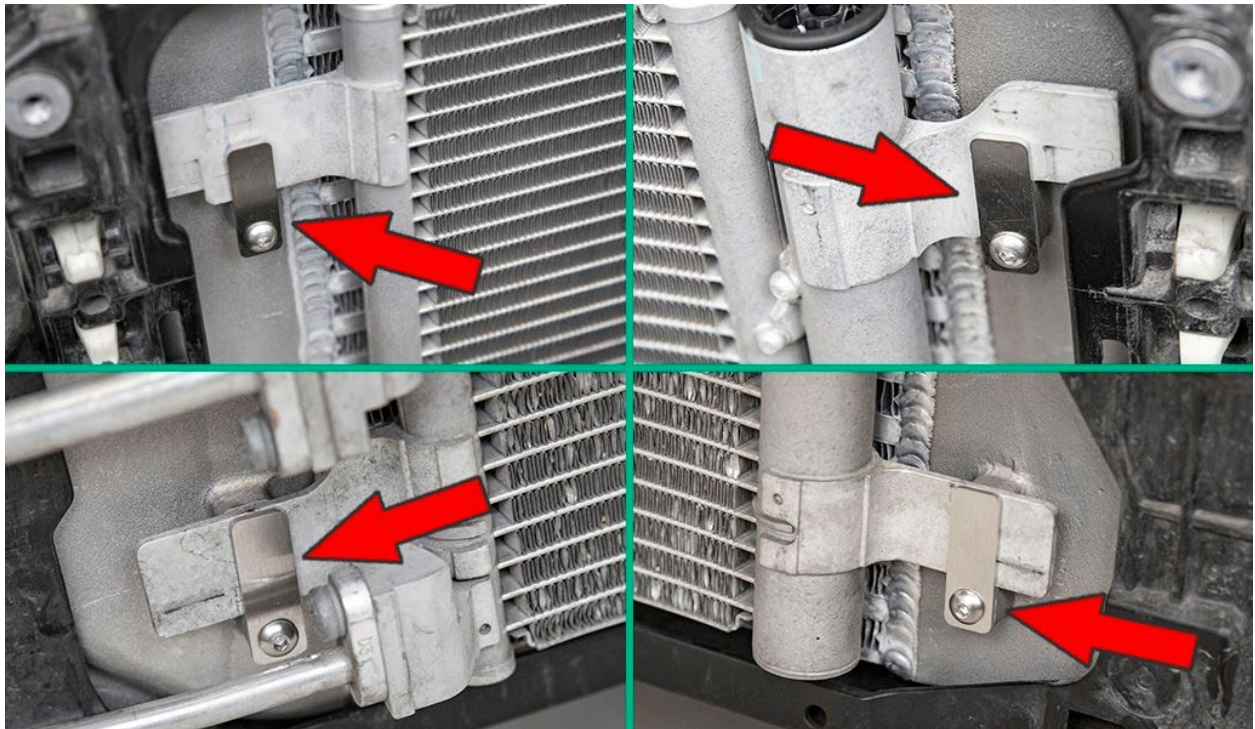
Line up the upper radiator clips with the slots on the IE intercooler, push to clip into place.



Line up the condenser mount tabs onto the intercooler mounts.



Install the included condenser brackets and button head allen bolts with a 3mm allen.



Remove the IE core support bolts and reinstall the core support.



Now that the FDS intercooler has been installed, begin reassembling the car by following the reverse of the procedure detailed above. You will need to reassemble the car completely and exactly as stock.



Fill the engine cooling system with a proper mix of factory specified coolant. Properly bleed off any air trapped in the cooling system. Start the car and confirm that you have no coolant leaks, air leaks, or misaligned components. Enjoy the massive performance gain of your new IE FDS Intercooler System!



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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