



CTS Turbo MQB Direct-fit intercooler (8V Audi A3/S3 specific)

Part number: CTS-20T-MQB-DF

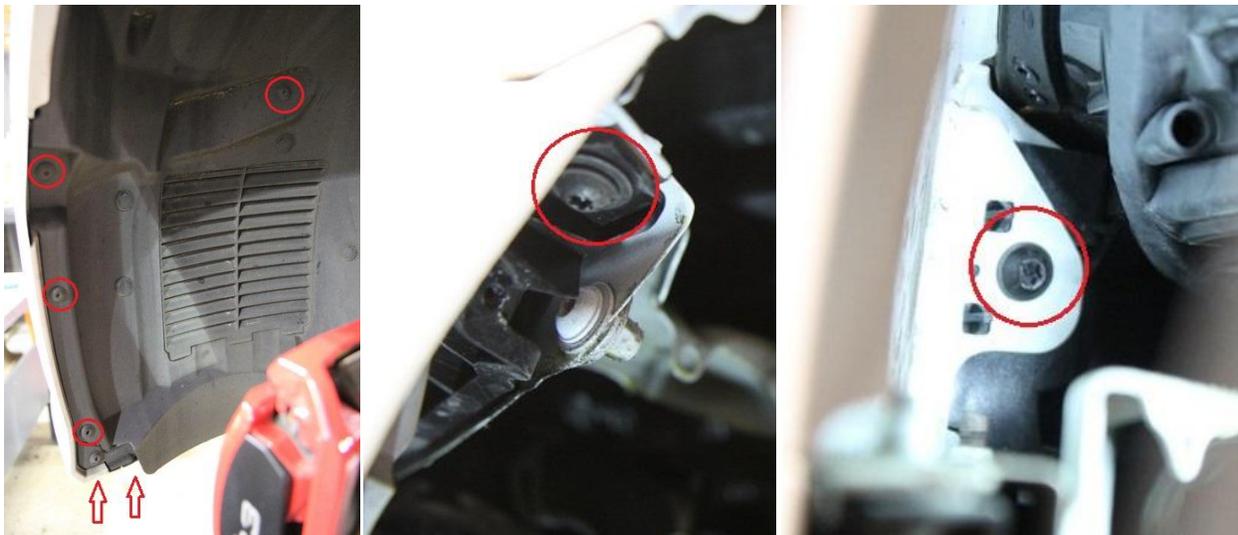
NOTE: We do not accept any liability for incorrect installation or damage during the install.

Have the following tools at hand; listed are recommended tools:

- Full socket set
- T25, T30, T45 torx
- Dremel tool with cut-off wheel or attachment
- Phillips and flat screwdriver, pliers, etc

Make sure the car is cooled off before starting the install. Never work on a hot motor.

Step 1: Safely lift and secure vehicle on hoist or jack stands. Remove front wheels. Remove from wheel liners: T25 torx. Remove belly pan: T25 or T45 torx. Remove bolts under wheel liner holding the front bumper on. On each side, there's one vertical screw and one screw deep inside the bumper, under headlight. Under the front lip, there are 3x T30 screws. See photos below

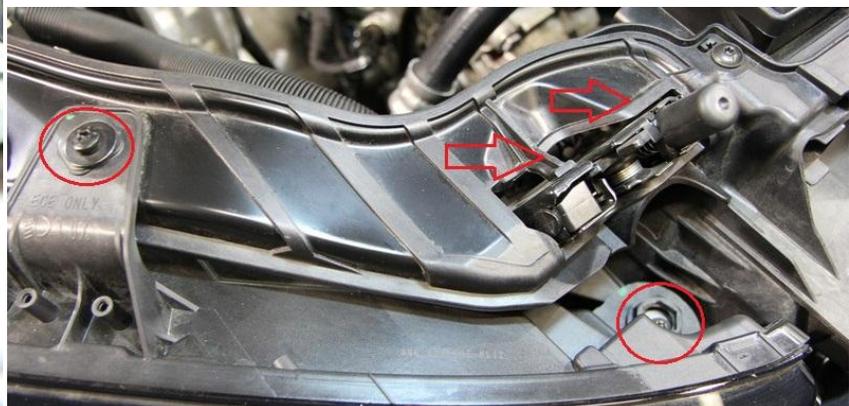


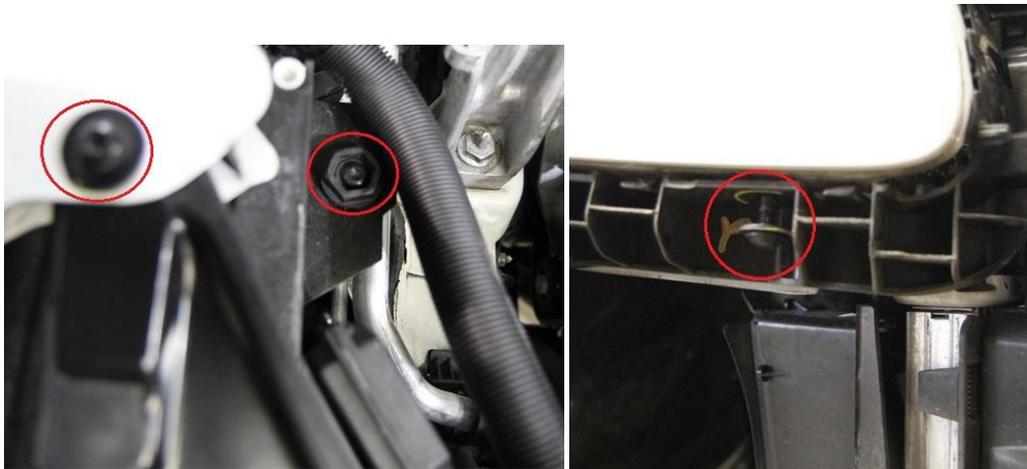
Step 2: Remove headlight washer line (squeeze the blue tabs), drain washer fluid and unclip the hose



Step 3: Remove 3x T25 torx on top of grille and remove bumper. Pull firmly at the bumper starting on wheel/fender side then carefully slide bumper forward. Unclip electrical harnesses as required.

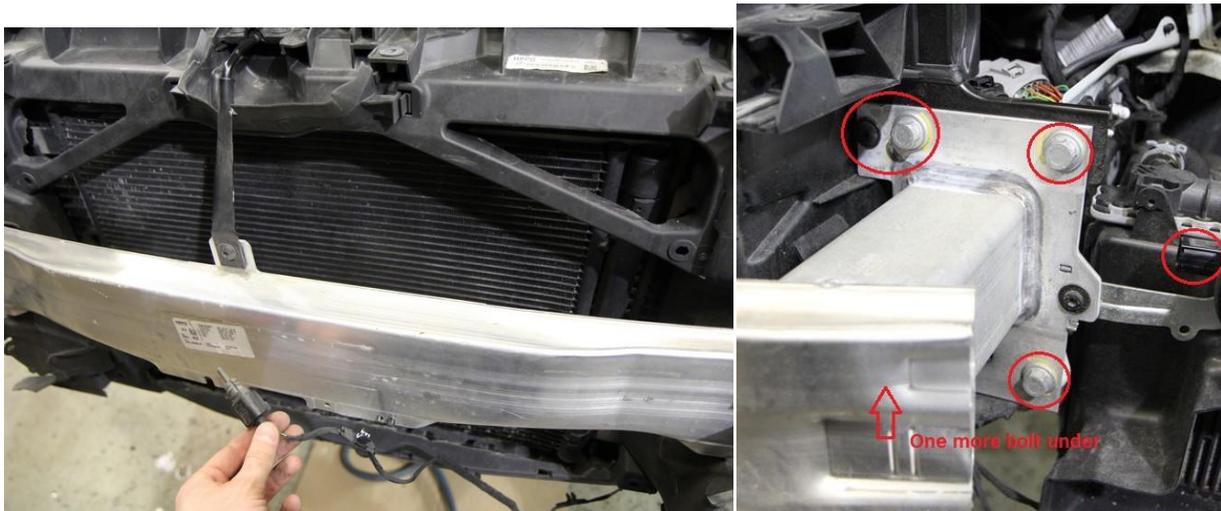
Step 4: Remove both headlights, 5x T30 total, 3 are on top of headlight, one under and one holding the plastic bumper support. Remove electrical harness to headlights. Also, remove the hood latches from both sides, 2x T30 and disconnect electrical harness.





Step 5: Remove intake and front air scoop, T25 torx.

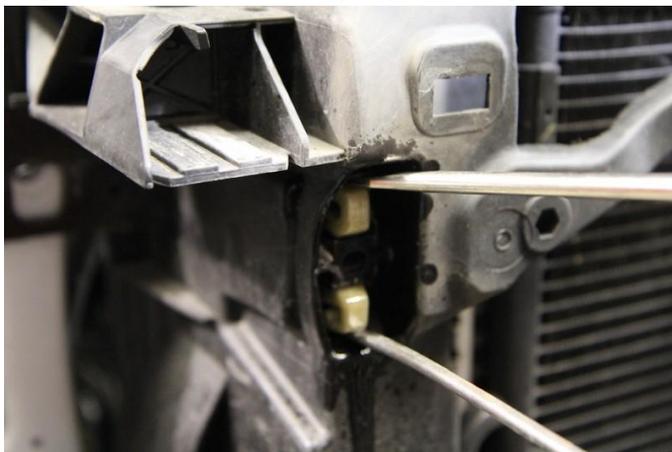
Step 6: Disconnect electrical harnesses to the horns and remove outside air temp sensor. Support the radiator assembly and **mark the position of the bolts on bumper rebar**. Carefully remove 4x 16mm hex bolts and 1x T30 torx on each side of bumper rebar. Remove the T30 torx at the front of vehicle.



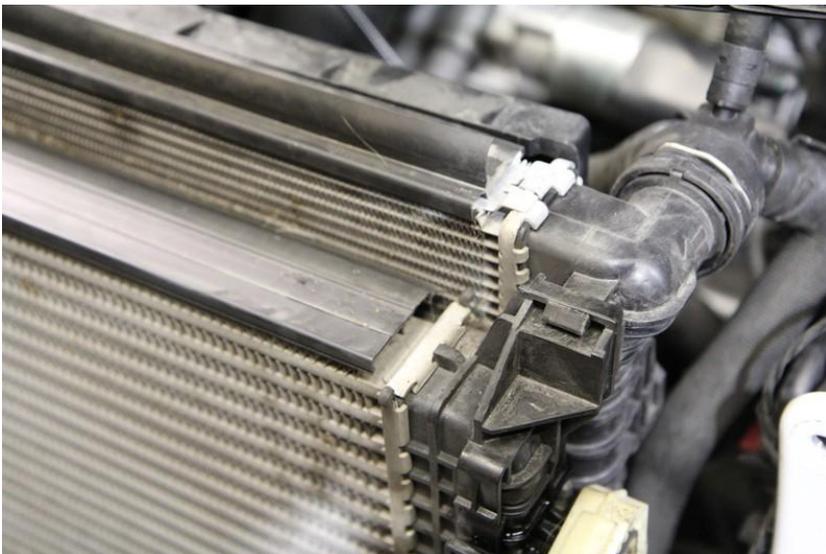
Step 7: Remove the rebar but tilting down and pulling the bar out.



Step 8: Remove the factory clips holding the FMIC in place. WD40 is your friend here.



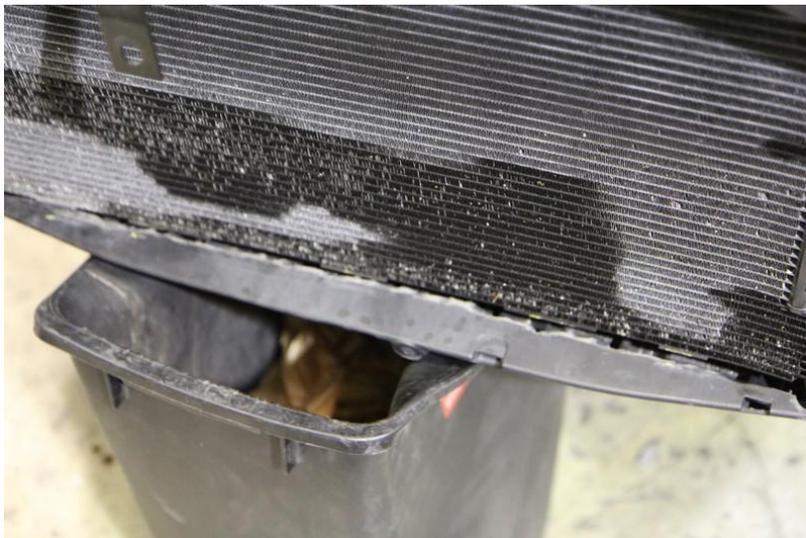
Step 9: Lift the intercooler and radiator assembly from the mounting holes on the bottom of the support and take off the support and A/C condenser. Move off to the left and unclip the factory intercooler at the top. Transfer mounting clips to CTS FMIC.

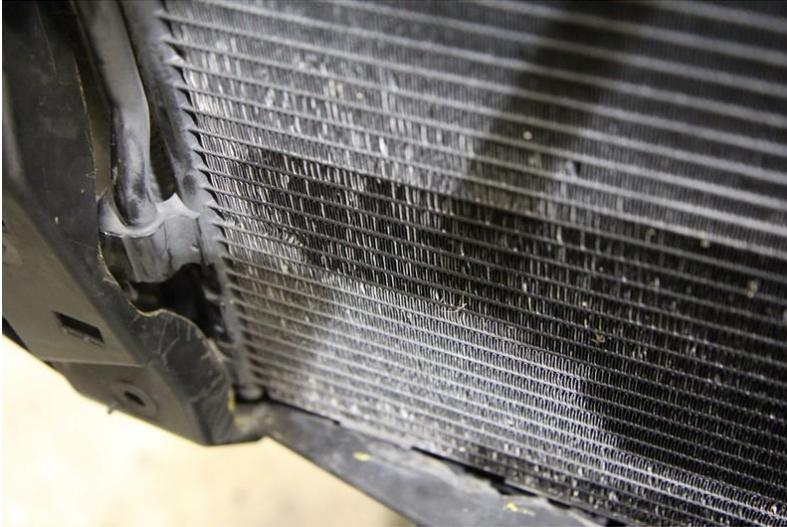




Step 10: Reinstall CTS Fmic into the factory location and make the necessary trimming on the radiator support (plastic) to accommodate for the larger intercooler. This is easily done using a Dremel tool and sidecutters if needed. Clearance on the A/C lines thru the rad support is needed as well and trimming the back part of the rad support.







Step 11: Reassemble the radiator support and re-bar. Make sure the marks on the bolts you made earlier align.



Step 12+:

Install CTS intercooler hoses and secure with clamps. Continue re-assembly.



