

Fitting Instructions

Revo Intercooler Kit Audi 2.0/1.8 TFSI/TSI – MQB/MQBevo

Fitting Difficulty



Dealer Fit Recommended

Contents

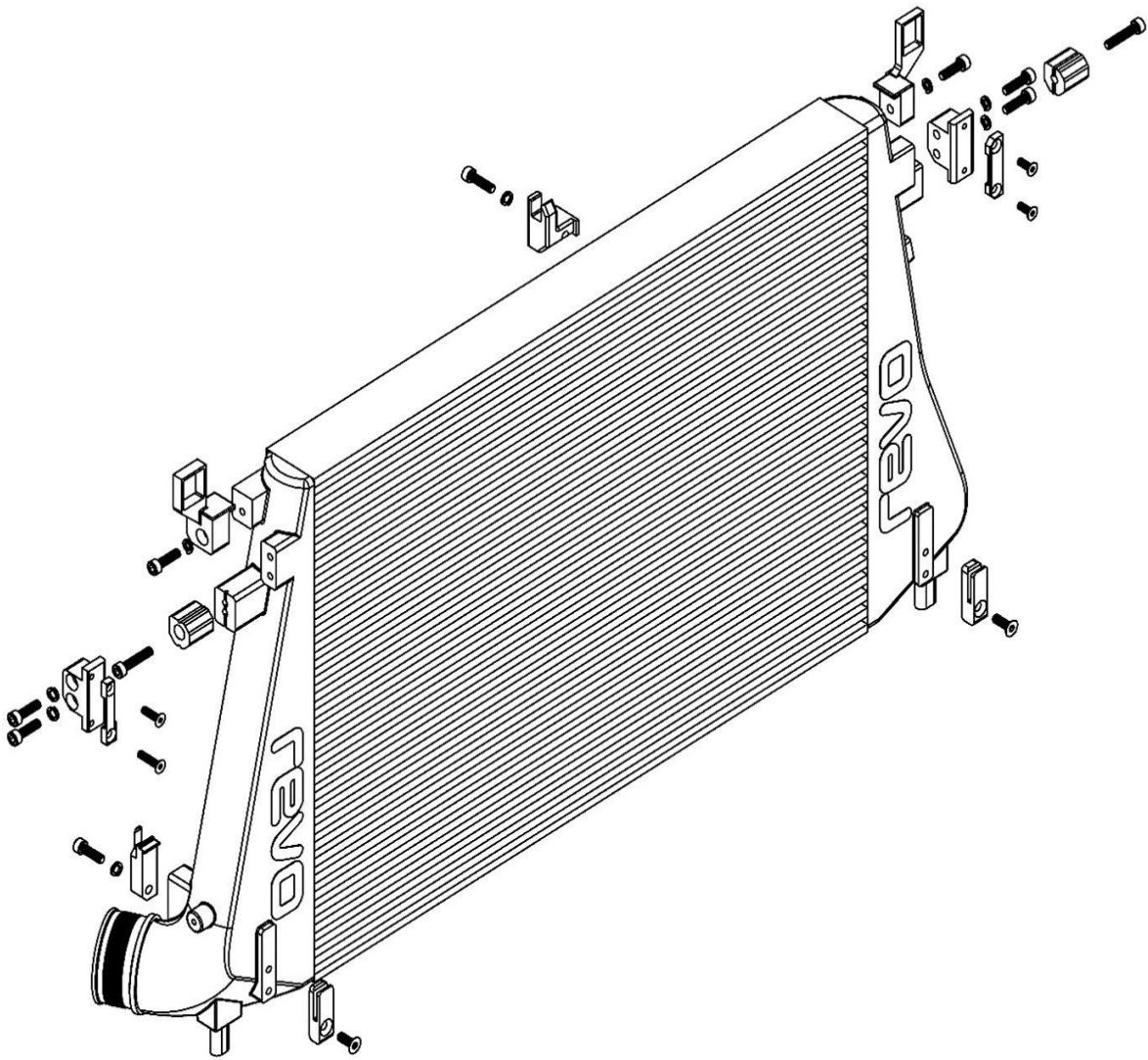
| Description | |
|------------------------------|---|
| Revo Intercooler | 1 |
| Revo Intercooler Bracket Kit | 1 |

Recommended Tools

| Tools | Size |
|------------------------------|------------------------|
| Ratchet | |
| Sockets | 7, 10, 16, 19mm |
| Torx Bits | T25, T30 |
| Hex Key | 4, 5mm Ball End |
| Wobble Extension | |
| Flat Head Screwdrivers | Small, Medium |
| Ball Peen Hammer | Small |
| Gearbox Stand/Hydraulic Jack | |
| Block of Wood | 50x100mm or equivalent |



Before starting, please ensure that the engine is cool and the battery is disconnected. Engine temperatures can remain high for a substantial amount of time after use.



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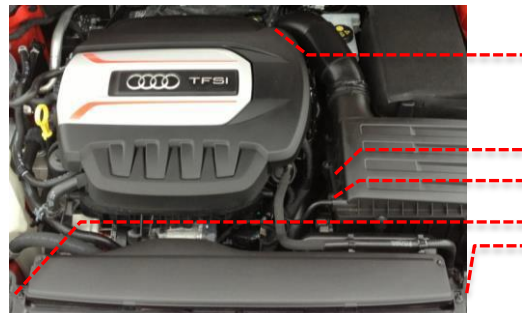


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Installation was performed on a S3 (8V). Installation on other vehicles will be similar but may not be exact.

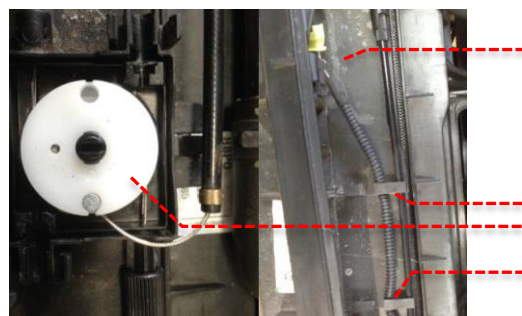
- 1 Remove the front and main section. Start by loosening the hose clamp at the turbo inlet using a 7mm socket. Remove the 2 x T25 screws on the front airbox section. Disconnect the small vacuum hose and secondary air pump pipe (if installed). Pull the main airbox directly upwards to disengage the rubber mounting points. Set the airbox aside, out of the work area.



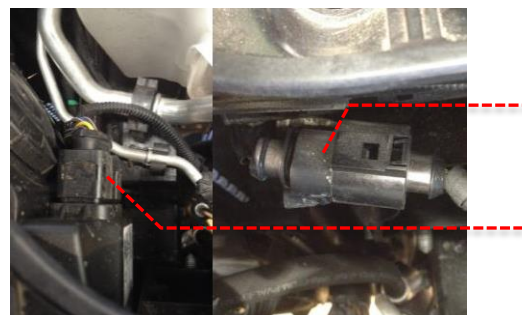
- 2 Remove the 3 x T30 screws at the top of the grille assembly. Carefully remove the grille assembly by gently pulling the top of the assembly away from the engine. Set the grille aside, out of the work area.



- 3 Disconnect the bonnet latch cable and crash sensor. Remove the crash sensor wiring harness from the radiator assembly shroud at the 3 x mounting points (2 of 3 points are pictured) and gently place in the engine bay, out of the work area.



- 4 Unplug both headlight connections and the bonnet latch sensor by pressing the connector tab, pushing the connectors together and then pulling them apart.



- 5 Raise the vehicle to gain access to the underside.

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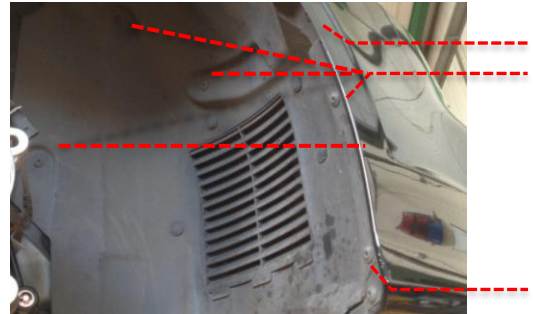
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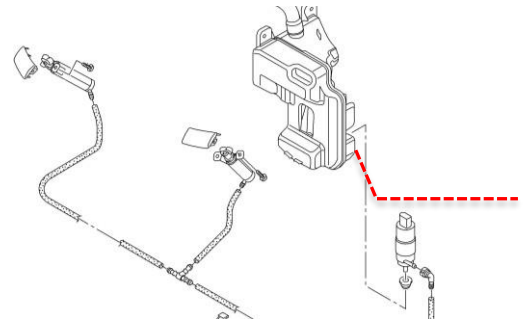
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- 6 Remove the front wheels and the 6 x T25 screws that secure the lower half of the wheel arch liner to the chassis/bumper. Repeat on the opposite side.

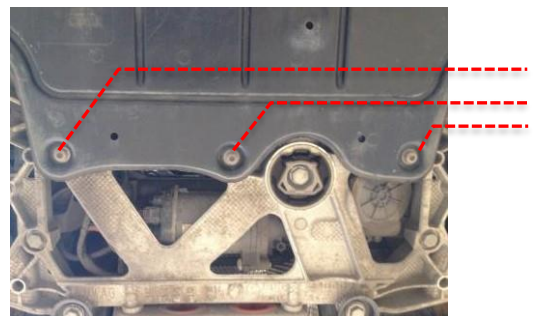


- 7 **S Models Only:** unplug the headlight washer feed at the bottom of the washer reservoir. Release the washer hose from the metal clips to allow the hoses to be removed with the bumper.

Note: this will drain washer fluid from the washer pipes, use a suitable container to collect the leaking fluid.



- 8 Remove the undertray. If fitted, disconnect the front fog lights.



- 9 Using a 7mm socket, remove both OE boost hoses.



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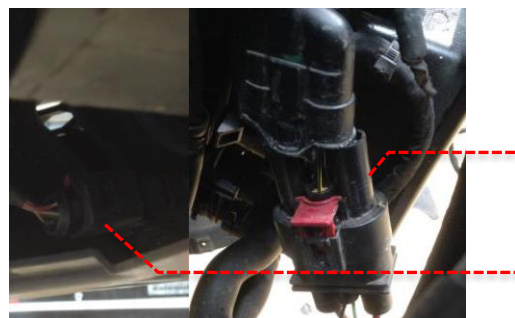
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- 10 Locate the radiator fan connector on the frame rail within the engine bay and carefully slide the red tab upward, then unplug and move the connectors out of the workspace. Unplug the main parking sensor harness at the bottom of the bumper cover. Place all connectors out of the work area.

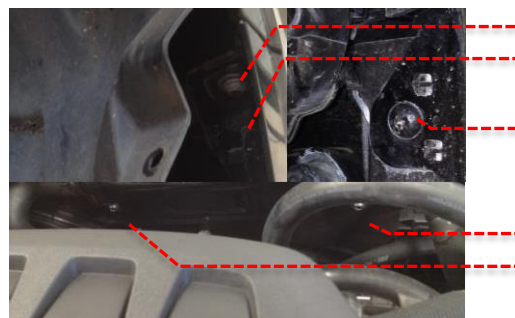


- 11 Remove the 2 x T30 bolts at the top corner of the bumper cover. Remove the T30 bolt inside the back of the bumper cover, holding the cover to the chassis. Repeat on the opposite side of the vehicle.

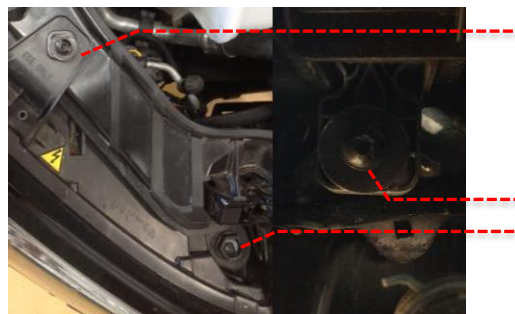
S Models Only: disconnect the coolant pipe brackets from the radiator assembly shroud by removing the 2 x T30 screws from the inner side of the shroud.

Remove the bumper cover.

Note: with one person either side of the bumper, remove the front bumper and store safely so as not to damage any paintwork.



- 12 Remove the 2 x T30 bolts that hold the headlight to the radiator shroud. Remove the T30 bolt located underneath the headlight. Repeat on the opposite side of the vehicle. Note the location of each bolt as they are different lengths.



- 13 Release the headlight breather hoses from the front air ducts by gently pushing each breather hose between the shroud and crash bar.



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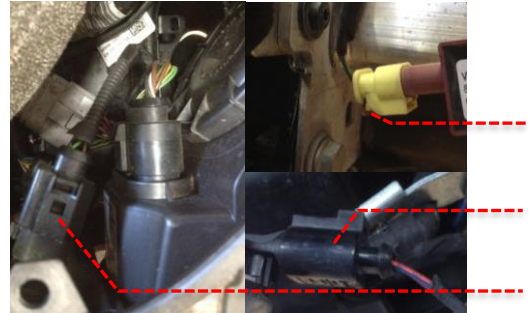
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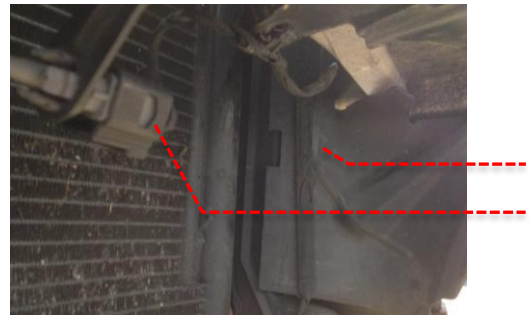


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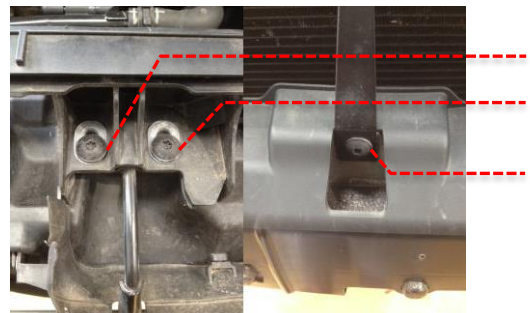
- 14 Disconnect the plug located above the intake side headlight assembly, the 2 x horn connectors and the 2 x yellow crash sensors.



- 15 Disconnect the air temperature sensor under the crash bar. Disconnect the sensor harness from the 5 x harness routing clips and place the harness/connector into the engine bay, out of the work area.



- 16 Remove the crash bar support bracket by removing the 3 x T30 bolts from the bracket and sliding the bracket forward.



- 17 Using a gearbox stand/jack with a large block of wood support the underside of the radiator assembly shroud to allow the crash bar to be removed. Note: be careful not to damage the underside of the heat exchangers.

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- 18 Remove the T30 screw from the upper inside area of each crash bar plate (2 in total).



- 19 Remove the T30 bolt at each upper corner of the radiator assembly shroud (2 in total).



- 20 Using a 16mm socket, remove the 8 x bolts that hold the crash bar to the chassis (4 x each side). Tilt the crash bar forwards then lift it upwards to remove it. Place aside, out of the work area.



- 21 Remove the 2 x air ducts on both sides of the air conditioning condenser by disconnecting the 3 x clips on each duct. Place the ducts aside, they will not be reused.



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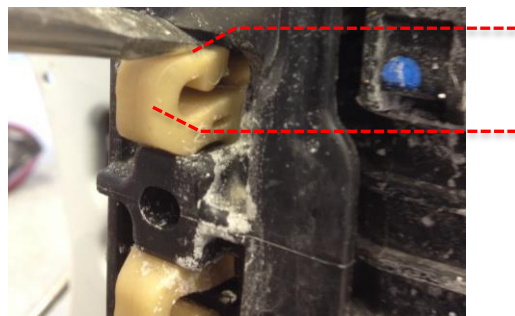
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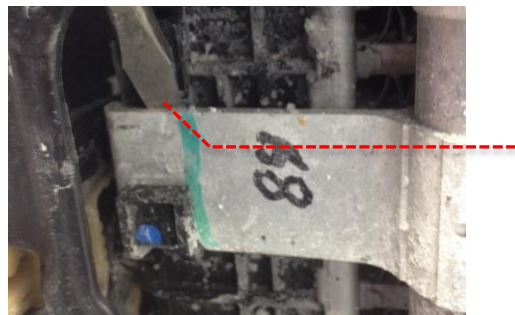
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- 22 Disconnect the intercooler from the shroud by pressing the tabs on the yellow hanger clips, shown, while simultaneously lightly tapping the face of the clip with a small ball peen hammer. Note the orientation of the clips for reinstallation. Place outside of the work area.

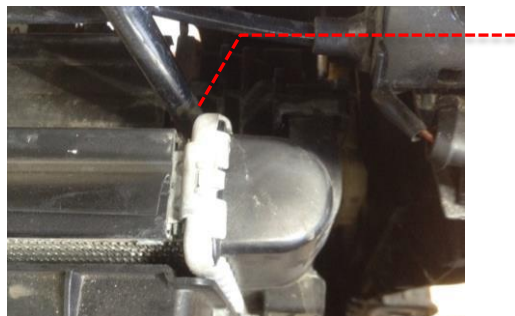


- 23 Remove the 2 x sealing strips from the front of the air conditioning condenser end caps. Place aside, they will not be reused.

- 24 Carefully remove the air conditioning condenser from the intercooler by depressing the plastic clips while pushing upwards, as shown. Slide the condenser upward and sit in front of the OE intercooler. Be careful not to kink or damage the aluminium refrigerant pipes or the condenser.



- 25 Lean the radiator/intercooler towards the engine and remove the yellow hanger brackets. Note the orientation of the clips for reinstallation. Place outside of the work area. Carefully press down on the tabs that lock the radiator to the top of the intercooler. Using a screwdriver against the metal radiator/intercooler seams, apply light pressure to free the intercooler from the radiator. Note: be careful, the radiator is easily damaged if excessive force is used.



- 26 Lift the radiator up, out of the lower intercooler mounts and remove the OE intercooler. Set is aside, outside of the work area and carefully place the radiator back onto the gearbox stand/jack.

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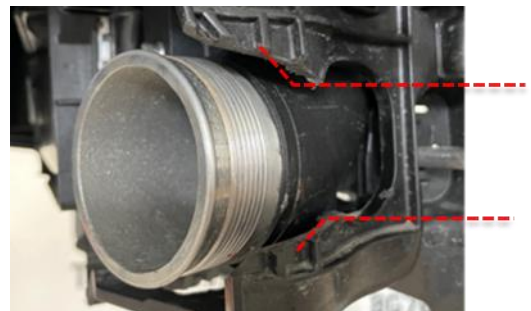
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- 27 Use the technical drawings at the end of these instructions to aid with correct installation. Using 4mm and 5mm hex key sockets install all brackets, except for brackets #3 and #9, onto the Revo intercooler and tighten to 8Nm. Note: brackets #1 and #7 should be left loose at this stage.

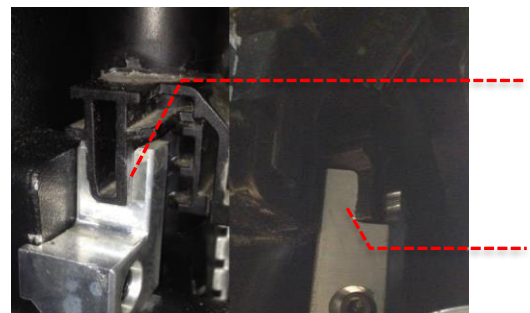
- 28 **MQBevo only:** install the Revo intercooler into the 2 x rubber grommets in the radiator shroud assembly removed above and mark the shroud around the Revo intercooler outlet for trimming, to allow room for the Revo outlet hose. Trim the shroud as shown and reinstall the Revo intercooler/outlet hose to ensure proper hose clearance to the shroud. Remove the Revo intercooler from the shroud.



- 29 Install the yellow hanger brackets onto the Revo intercooler in the same orientation as removed.

- 30 Place the Revo intercooler into the radiator assembly shroud, ensuring the lower tabs on the Revo intercooler insert fully into the 2 x rubber grommets at the bottom of the shroud.

- 31 Lower the radiator onto the Revo intercooler so the lower radiator tabs fully seat into the Revo lower radiator brackets. Lean the radiator forward and ensure the radiator tabs click into place on the upper radiator Revo brackets #1 and #7, then tighten the brackets to 8Nm.



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- 32 Reinstall the condenser by sliding it down into the lower brackets #6 and #12 on the Revo intercooler. Then fit brackets #3 and #9 to the top condenser ears and tighten to 8Nm.

- 33 Lean the radiator assembly forward to clip the yellow hanger brackets back into the shroud. It may be necessary to lift the assembly up to locate the hanger brackets into the shroud slots. Double check the front of the shroud to ensure the yellow hanger brackets have fully engaged with the shroud.

- 34 Refit all OE parts back to vehicle, replacing the OE boost hoses with the Revo boost hoses and clamps (supplied). Reinstallation is the reverse of removal. Follow any factory torque specification during reinstallation of OE parts. Check all sensors/electrics are reconnected. Also check the bonnet release cable is refitted.

Note: when reinstalling the crash bar, check the location of the crash sensor harness. The harnesses naturally sit in front of the frame rail face when disconnected and can easily be pinched/damaged during reinstallation of the crash bar.

Test drive the vehicle to ensure vehicle performs correctly and there are no leaks/part interference during operation. Your installation is now complete!

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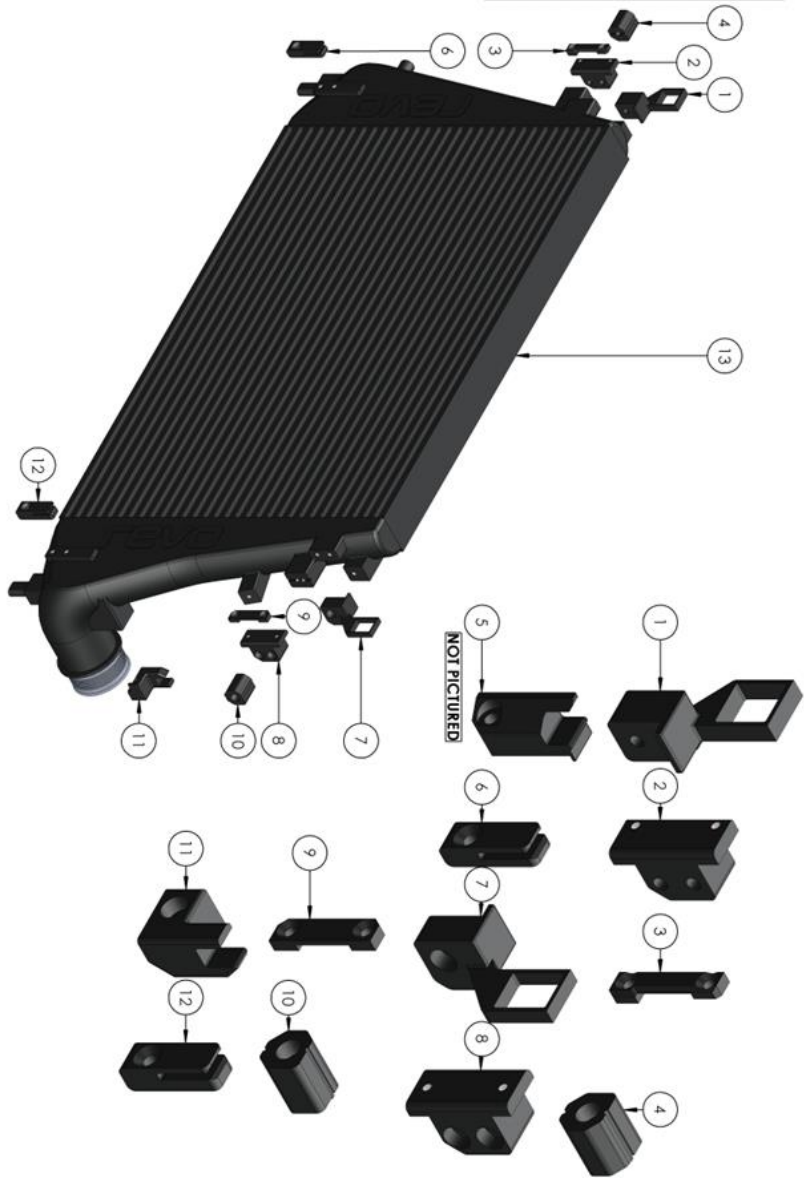
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| ITEM NO. | DESCRIPTION | QTY. |
|----------|--------------------------------|------|
| 1 | UPPER OUTLET RADIATOR BRACKET | 1 |
| 2 | UPPER OUTLET CONDENSER BRACKET | 1 |
| 3 | UPPER OUTLET CONDENSER CLIP | 1 |
| 4 | OUTLET HANGER BRACKET | 1 |
| 5 | LOWER OUTLET RADIATOR BRACKET | 1 |
| 6 | LOWER OUTLET CONDENSER BRACKET | 1 |
| 7 | UPPER INLET RADIATOR BRACKET | 1 |
| 8 | UPPER INLET CONDENSER BRACKET | 1 |
| 9 | UPPER INLET CONDENSER CLIP | 1 |
| 10 | INLET HANGER BRACKET | 1 |
| 11 | LOWER INLET RADIATOR BRACKET | 1 |
| 12 | LOWER INLET CONDENSER BRACKET | 1 |
| 13 | INTERCOOLER CORE | 1 |



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| 3 | UPPER OUTLET CONDENSER CLIP | 1 |
| 4 | OUTLET HANGER BRACKET | 1 |
| 5 | LOWER OUTLET RADIATOR BRACKET | 1 |
| 6 | LOWER OUTLET CONDENSER BRACKET | 1 |
| 7 | UPPER INLET RADIATOR BRACKET | 1 |
| 8 | UPPER INLET CONDENSER BRACKET | 1 |
| 9 | UPPER INLET CONDENSER CLIP | 1 |
| 10 | INLET HANGER BRACKET | 1 |
| 11 | LOWER INLET RADIATOR BRACKET | 1 |
| 12 | LOWER INLET CONDENSER BRACKET | 1 |
| 13 | M6 x 1.0 x 30MM CAP HEAD BOLT STAINLESS STEEL | 2 |
| 14 | M6 x 1.0 x 22MM CAP HEAD BOLT STAINLESS STEEL | 6 |
| 15 | M6 x 1.0 x 20MM CAP HEAD BOLT STAINLESS STEEL | 2 |
| 16 | M6 x 1.0 x 16MM COUNTERSUNK BOLT STAINLESS STEEL | 1 |
| 17 | M5 x 0.8 x 22MM COUNTERSUNK BOLT STAINLESS STEEL | 1 |
| 18 | M5 x 0.8 x 18MM COUNTERSUNK BOLT STAINLESS STEEL | 1 |
| 19 | M6 x 1.0 x 18MM COUNTERSUNK BOLT STAINLESS STEEL | 1 |
| 20 | M5 x 0.8 x 14MM COUNTERSUNK BOLT STAINLESS STEEL | 2 |
| 21 | M6 SPLIT-LOCK WASHER STAINLESS STEEL | 8 |

