

Fitting Instructions

Revo Intercooler Kit VAG 2.0/1.8 TFSI/TSI – MQB/MQBBevo

Fitting Difficulty



Dealer Fit Recommended

Contents

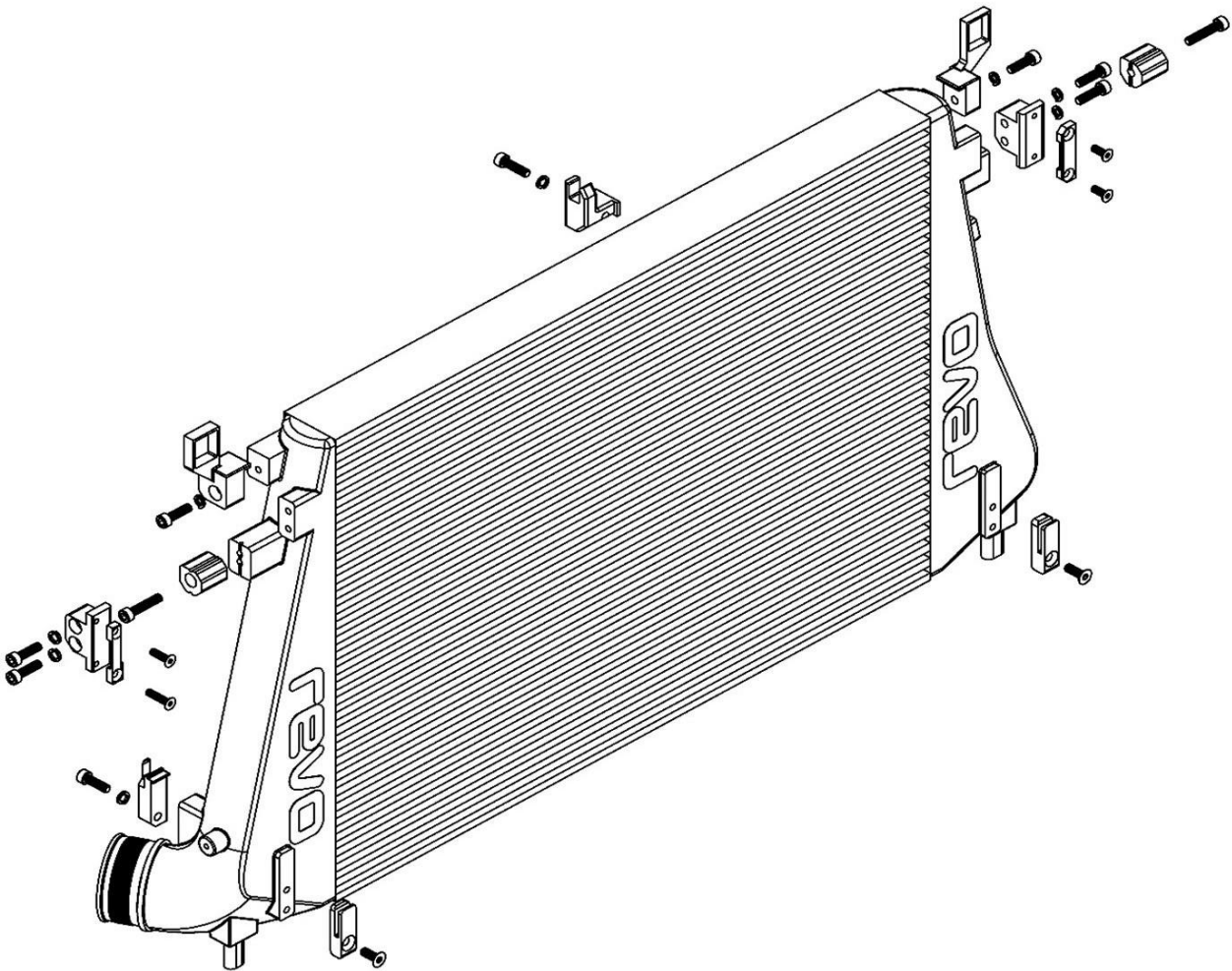
Description	
Revo Intercooler	1
Revo Intercooler Bracket Kit	1

Recommended Tools

Tools	Size
Ratchet	
Sockets	7, 10, 16, 19mm
Torx Bits	T25, T30
Hex Key	4, 5mm Ball End
Wobble Extension	
Flat Head Screwdriver	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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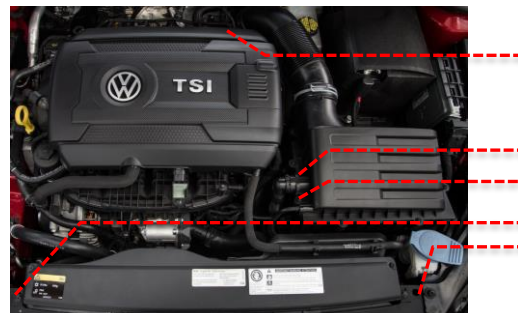


Dealer Fit Recommended



Installation was performed on a MK7 Golf GTI. Installation on other vehicles will be similar but may not be exact.

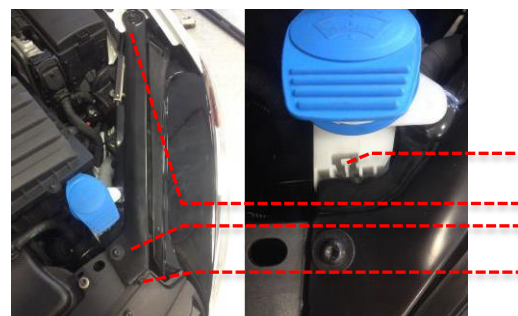
- 1 Remove the front and main section. Start by loosening the hose clamp at the turbo inlet using a 7mm socket. Remove the 2 x T25 screws on the front airbox section. Disconnect the small vacuum hose and secondary air pump pipe (if installed). Pull the main airbox directly upwards to disengage the rubber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



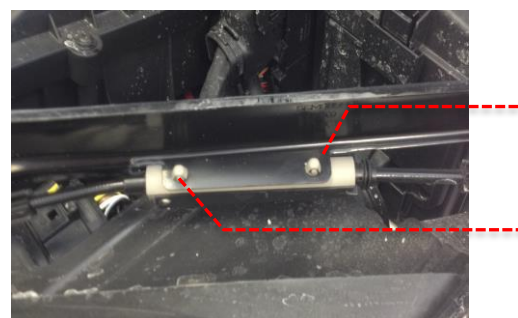
- 2 Remove the 2 x T25 screws from the top of the grille and remove the grille by gently pulling upwards. Set the grille aside, out of the work area.



- 3 Remove the 3 x T30 bolts from the black headlight brackets on both sides of the vehicle. Disconnect the washer fluid filler neck from the headlight bracket by pressing the white tab and lifting the filler neck upwards.



- 4 Separate the bonnet release cable housing from the headlight bracket by pressing in on the tabs, shown, on the underside of the headlight bracket. Open the housing and disconnect the bonnet release cable.



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

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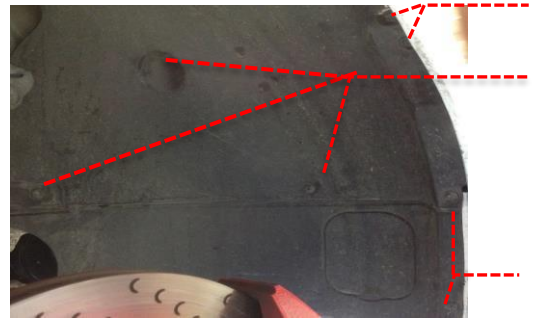
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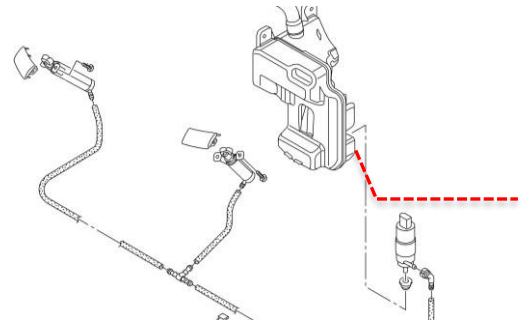
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- 6 Remove the front wheels and 7 x T25 screws that secure the lower half of the wheel arch liner to the chassis/bumper. Repeat on the opposite side.

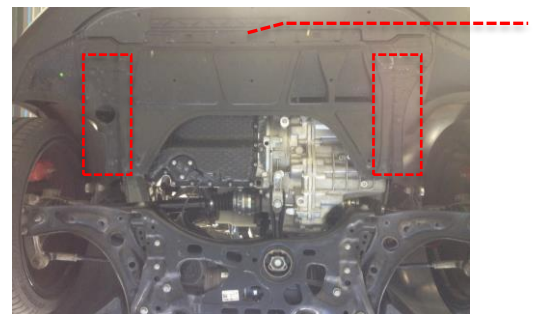


- 7 **R Models Only:** unplug the headlight washer feed at the bottom of the washer reservoir. Release the washer hose from the metal clips to allow the hoses to be removed with the bumper.

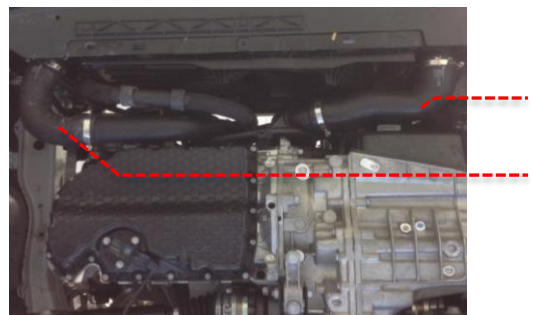
Note: this will drain washer fluid from the washer pipes, use a suitable container to collect the leaking fluid.



- 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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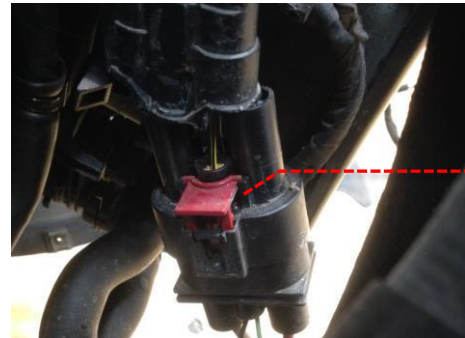
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- 10 Locate the radiator fan connector on the frame rail within the engine bay and carefully slide the red tab upward, then unplug and move the connectors out of the workspace.



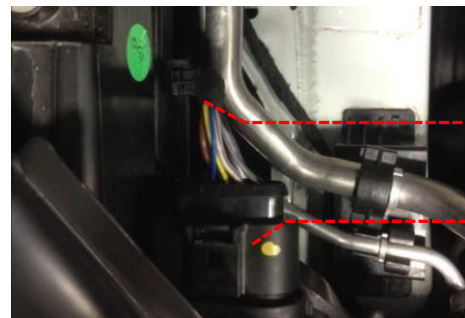
- 11 Using a 10mm deep socket remove the 2 x plastic nuts (metal on R models) from inside the top corner of each bumper cover and pull the top of each corner until separated from the wing clips. Remove the bumper cover

R Models Only: unplug the main parking sensor harness under the headlight.

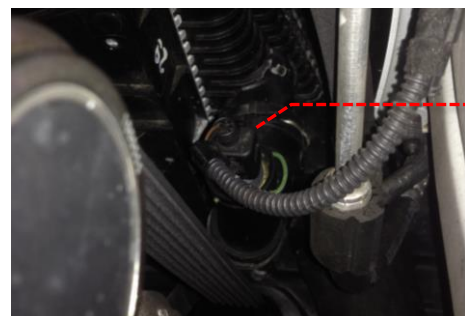
Note: with one person either side of the bumper, remove the front bumper and store safely so as not to damage any paintwork



- 12 Disconnect the headlight harness on both headlights and remove the clip on the headlight wiring harness.



- 13 Disconnect the coolant temperature sensor located on the lower inner side of the radiator.



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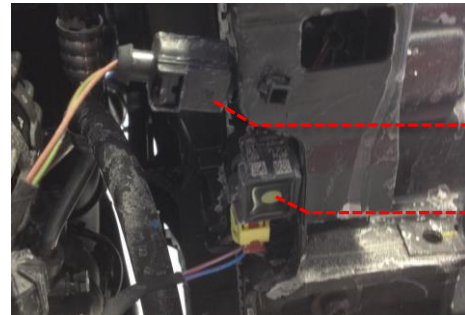
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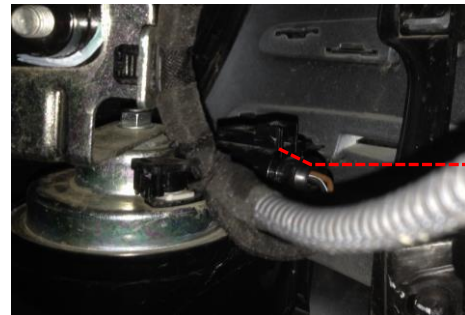


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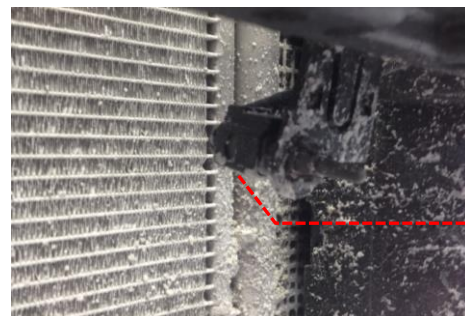
- 14 Disconnect the yellow crash sensor and bonnet latch sensor, both located near the coolant temperature sensor.



- 15 Disconnect the horn connectors on both sides of the vehicle.



- 16 Disconnect the air temperature sensor located underneath the crash bar. Unclip the ambient sensor harness to disconnect the wiring from the radiator shroud.



- 17 Remove the 3 x T30 screws that hold the bumper cover mount to the radiator shroud. Carefully remove the bumper cover mount. Remove the 2 x air shrouds (not pictured) by disconnecting the 3 x clips on the back side of each shroud and carefully pulling each shroud downwards.



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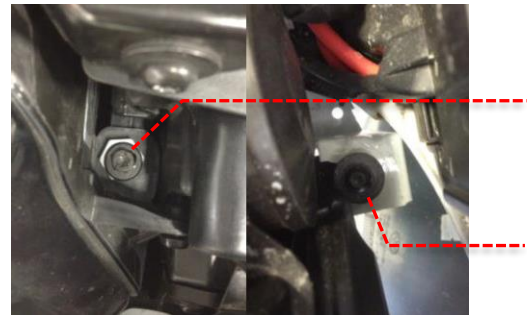
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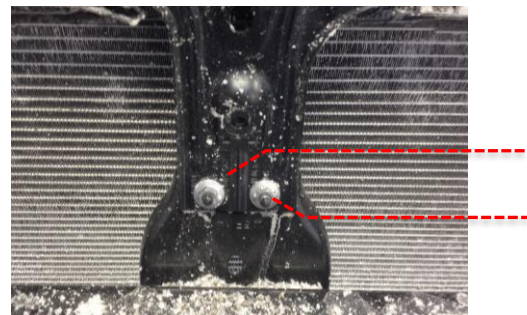


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- 18 Remove the T30 screw from the front of each headlight assembly and loosen the T30 screw at the back of each headlight assembly. Do not completely remove the rear T30 screw. Remove each headlight assembly and place out of the work area.



- 19 Remove the 2 x nuts from the crash bar studs.



- 20 **R Models Only:** disconnect the coolant line brackets from the radiator assembly shroud by removing the 2 x T30 screws from the inner side of the fan shroud.



- 21 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.

- 22 Unplug the remaining yellow crash sensor on the opposite side of the radiator shroud.

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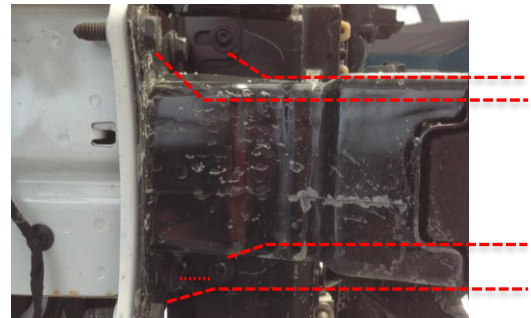
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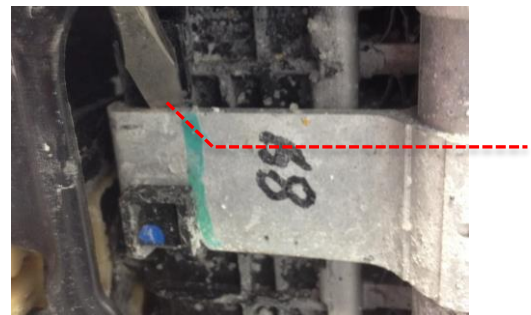
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- 23 Remove the 2 x T30 screws on each side (4 in total) holding the radiator assembly shroud to the crash bar and the 8 x 16mm bolts that hold the crash bar to the chassis.

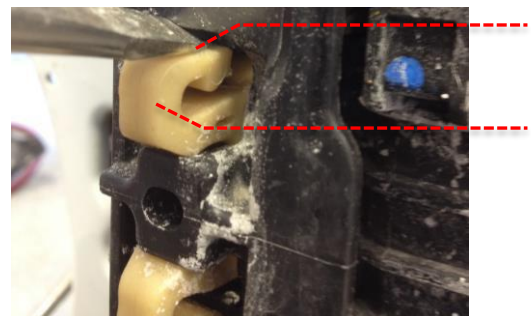


- 24 Carefully remove the crash bar from the vehicle and place outside of the work area.

- 25 Carefully remove the air conditioning condenser from the intercooler by depressing the plastic clips while pushing upwards, as shown. Slide the condenser upward and carefully set it to the side of the vehicle. Be careful not to kink or damage the aluminium refrigerant pipes or the condenser.



- 26 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. Disconnect both clips, 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.



- 27 Lean the radiator/intercooler towards the engine and upwards to remove the lower intercooler tabs from the rubber grommets in the shroud. Remove the shroud and place out of the work area. Carefully place the intercooler/radiator back onto the gearbox stand/jack.

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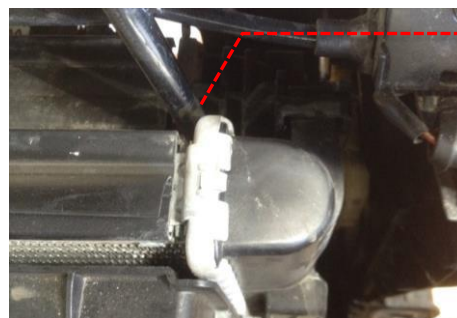
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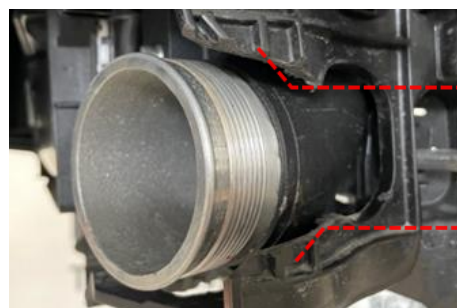
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- 28 Carefully press down on the tabs that lock the radiator to the top of the intercooler. Using a screwdriver against the metal radiator/intercooler seams, apply light pressure to free the intercooler from the radiator. Note: be careful, the radiator is easily damaged if excessive force is used. Lift the radiator up, out of the lower intercooler mounts and remove the OE intercooler. Set it aside, outside of the work area and carefully place the radiator back onto the gearbox stand/jack.



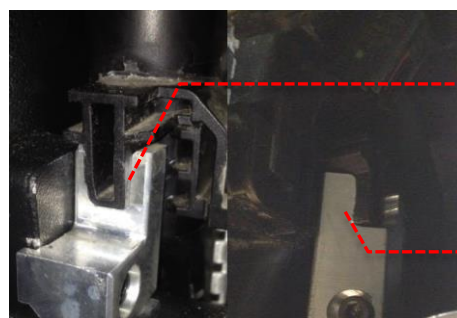
- 29 Use the technical drawings at the end of these instructions to aid with correct installation. Using 4mm and 5mm hex key sockets install all brackets, except for brackets #3 and #9, onto the Revo intercooler and tighten to 8Nm. Note: brackets #1 and #7 should be left loose at this stage.

- 30 **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



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

- 32 Lift the radiator and place the Revo intercooler onto the gearbox stand/jack. Lower the radiator onto the Revo intercooler so the lower radiator tabs fully seat into the lower radiator Revo 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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- 33 With assistance lift the radiator/Revo intercooler up and place the shroud onto the gearbox stand/jack. Lean the shroud away from the engine to allow the lower rubber grommets to align with the lower tabs on the Revo intercooler. Slowly lower the radiator/Revo intercooler into the shroud and seat the Revo intercooler tabs into the 2 x rubber shroud grommets.
- 34 Reinstall the condenser by placing it in front of the Revo intercooler, sliding the lower condenser ears into the lower condenser Revo brackets and installing the upper condenser Revo clips #3 and #9. Be sure to install the correct clips/hardware in the correct location, use the technical drawings at the end of these instructions to aid with correct installation. Tighten the condenser clip to 8Nm, using a 4mm hex key socket.
- 35 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.
- 36 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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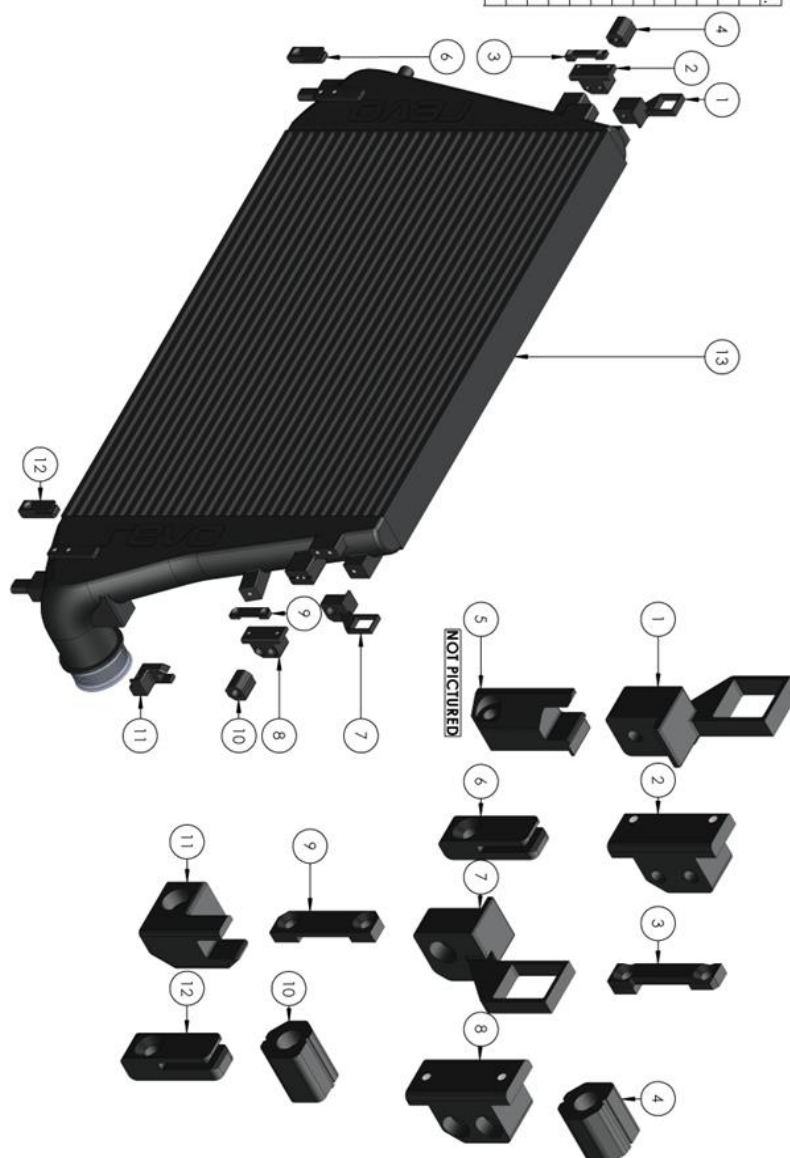
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ITEM NO.	DESCRIPTION	QTY.
1	UPPER OUTLET RADIATOR BRACKET	1
2	UPPER OUTLET CONDENSER BRACKET	1
3	UPPER OUTLET CONDENSER CLIP	1
4	OUTLET HANGER BRACKET	1
5	LOWER OUTLET RADIATOR BRACKET	1
6	LOWER OUTLET CONDENSER BRACKET	1
7	UPPER INLET RADIATOR BRACKET	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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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

