

Fitting Instructions

Revo MQB Golf/GTi/Octavia/Leon Intercooler

Fitting Difficulty

Dealer installation
advised.

Contents

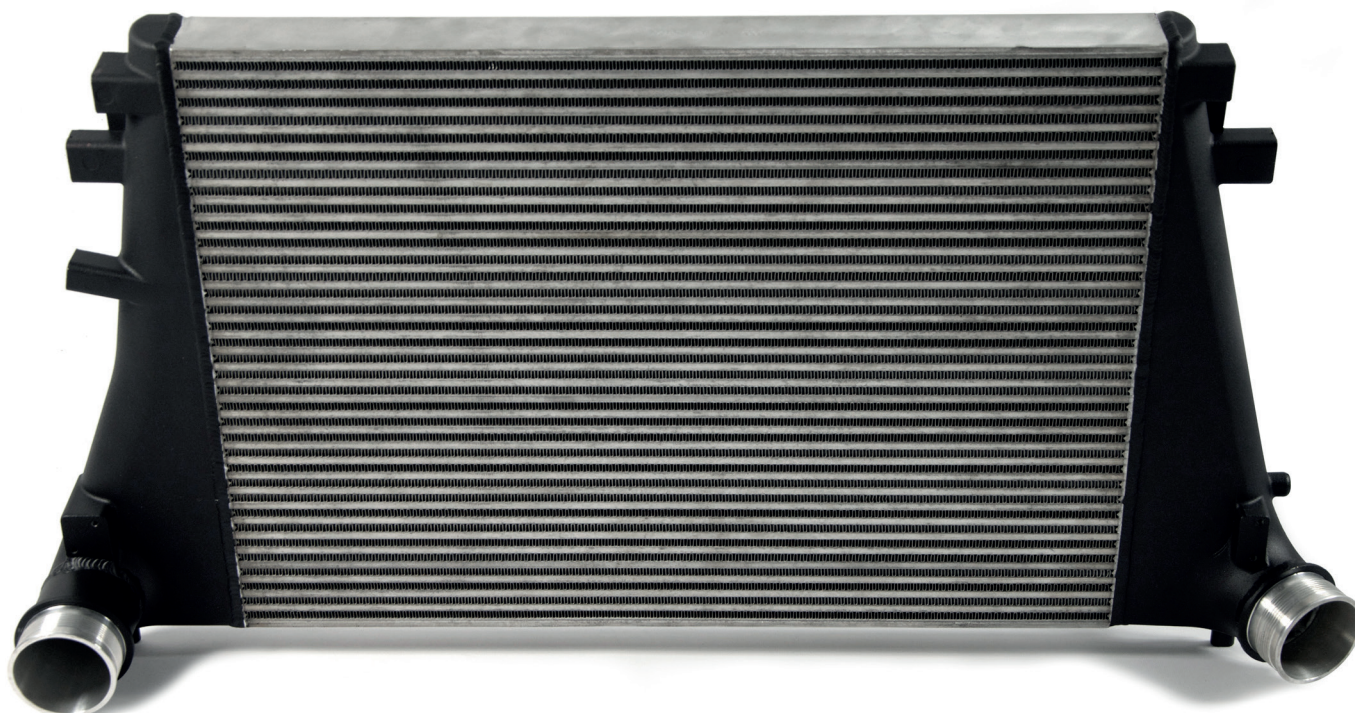
No.	Description
-	Intercooler
-	Bracket Kit
-	Silicone Hoses
-	Hose Clamps

Recommended Tools

Tools	Size
Torx Bit	T25, T30
Allen Key	4, 5 mm
Socket	7, 10, 16, 19 mm
Flat Head Screwdriver	Small, Medium
Ball Peen End Hammer	-
VAG Lug Bolt Cap Removal Tool	-
Hydraulic Jack / Jack Stand	-
Vehicle Lift / x4 Jack Stands	-



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



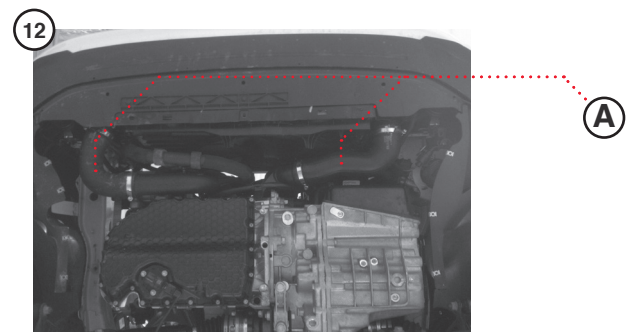
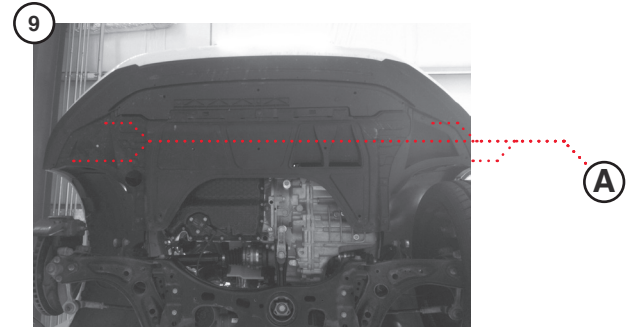
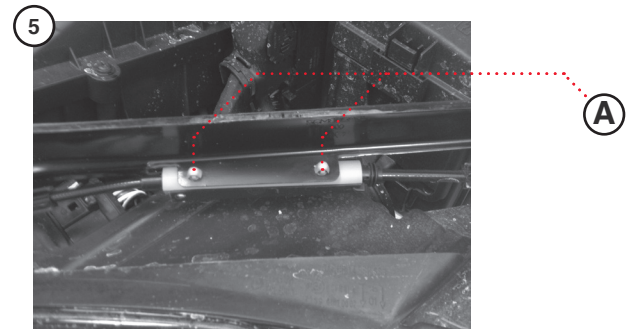
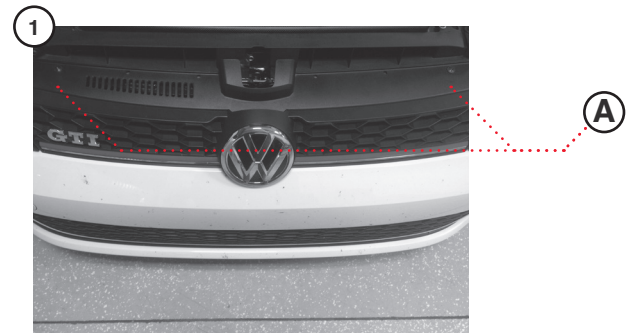
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- 1 Open hood and remove x2 T25 Torx screws from grille shroud (A).
- 2 Remove front intake section and airbox.
- 3 Remove the x3 T30 Torx bolts from the black headlight brackets on both sides of the vehicle.
- 4 On the washer fluid filler neck up, depress the white tab and lift the neck up to remove it from the headlight bracket.
- 5 Flip the headlight bracket over and use plyers to carefully depress the hood latch housing clips (A). Free the housing from the headlight bracket and set the bracket aside.
- 6 Apply pressure to the top and bottom housing shells to disengage the slotted coupling and allow top black cover to be opened (A). Remove the black latch sheathing and ball-end from the housing and separate the hood latch connection.
- 7 Securely raise the vehicle on a lift on jack stands to allow access to the underside of the vehicle.
- 8 Remove the front wheels and the x8 T25 Torx screws that secure the splash pan to the plastic wheel well surrounds and bottom of the bumper.
- ! **R models only:** Unplug the headlight washer feed at the bottom of the washer reservoir. Note this will drain all of the washer fluid in the reservoir. Free the corrugated washer fluid hose from the metal routing clips to allow the hose end to move with the bumper cover.
- 9 Underneath the vehicle, remove the x2 (x4 total) T25 Torx screws that secure the bottom of the wheel well liner to the bumper on each side.
- 10 Remove the x6 T25 Torx screws (A) that secure the bottom half of the wheel well liner to the chassis/bumper. Also remove the x1 T25 Torx screw (B) that secures the top of the bumper to the fender. Repeat this process on the opposite wheel well of the vehicle.
- 11 If applicable, unplug the fog light (A) on each side of the vehicle.
- 12 Remove both OE boost hoses.
- 13 Locate the radiator fan plug on the right frame rail within the engine bay. Carefully remove the plug assembly and tuck both connectors out of the workspace.
- 14 Using a 10mm deep-well socket, remove the x2 plastic nuts (metal on R models) from inside the top corner of each bumper cover (x4 total).
- 15 Using a 10mm deep-well socket, remove the x2 plastic nuts (metal on R models) from inside the top corner of each bumper cover (x4 total) and pull the top of each corner until separated from the fender clips. Remove the bumper.
- ! **R models only:** Unplug the main parking sensor harness in the right hand side of the bumper.



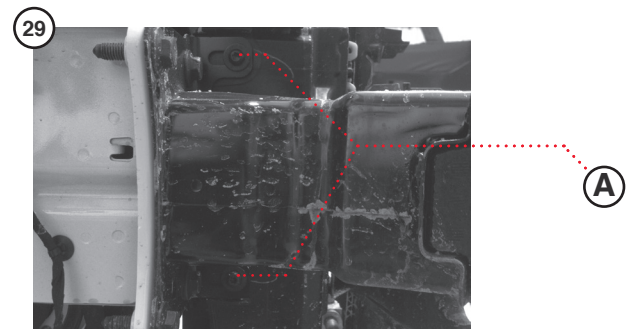
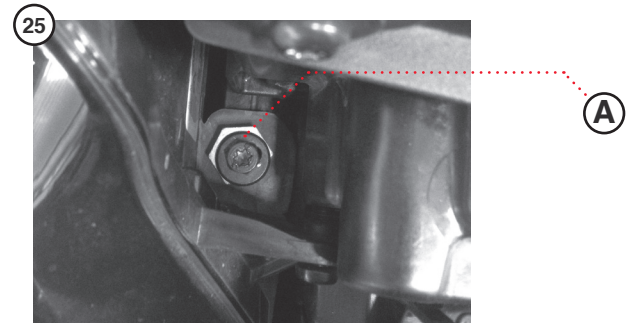
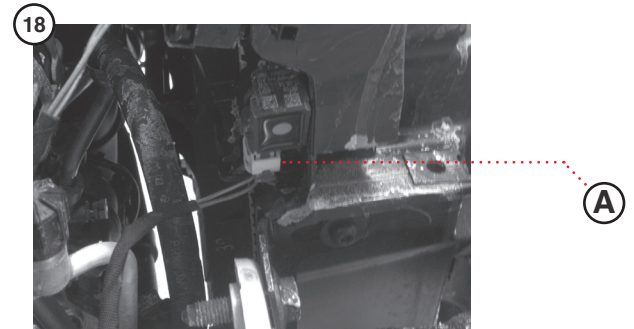
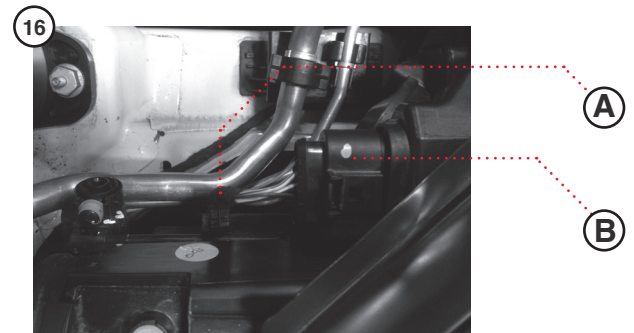
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- 16 Unplug the headlight harness on both headlights (B). Also remove the x1 harness routing clip (A) on headlight wiring harness.
- 17 Unplug the coolant temperature sensor located on the plastic sensor provision on the radiator outlet. This sensor is located on the same side as the hood latch sensor.
- 18 Unplug the yellow crash sensor on the same side.
- 19 Unplug the horn connections on both sides of the vehicle.
- 20 Unplug the ambient sensor (A) located underneath of the metal crash bar. Unclip the ambient sensor harness at the routing points to free the heat exchanger support shroud from the harness.
- 21 Remove the x3 T30 Torx screws that affix the plastic bumper cover holder to the heat exchanger support shroud. Carefully remove the x2 air ducts from the plastic bumper cover holder.
- 22 Remove the plastic bumper cover holder from the vehicle.
- 23 Remove the plastic bumper cover holder from the vehicle.
- 24 Remove the x1 T30 Torx from the front of each headlight assembly.
- 25 Loosen the x1 T30 Torx screw (A) at the bottom rear of each headlight assembly and carefully remove each headlight assembly. Do not completely remove the screws.
- 26 Unplug the yellow crash sensor on the right side of the heat exchanger support shroud. The black crash sensor does not need to be removed.
- 27 Remove the x2 nuts from the crash bar studs below the hood latch.
- ! **R models only:** Disconnect the coolant line brackets from the heat exchanger support shroud by removing the x2 T30 Torx screws from the interior of the shroud.
- 28 Using a hydraulic jack or jack stand, support the underside of the radiator/intercooler/condenser/support shroud assembly to allow the crash bar to be removed. Be sure to use foam or cardboard as an insulator between the assembly and the jack pad/jack stand so as not to damage the underside of any of the heat exchangers.
- 29 Remove the x2 T30 Torx screws (A) on each side (x4 total) that hold the composite heat exchanger support shroud to the metal crash bar.
- 30 Carefully remove the crash bar from the vehicle.
- 31 Remove the x2 T25 Torx screws (A) that affix the composite intake tray to the heat exchanger support shroud. Carefully lean the heat exchanger shroud forward and remove the intake tray. Set it aside, out of the work area.



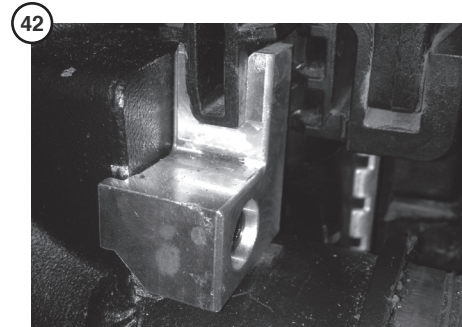
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- 32** Carefully remove the air conditioning condenser from the heat exchanger support shroud and set it to the left side of the vehicle. Note the aluminum and flexible refrigerant lines to make sure they do not rub excessively on the frame rail face or become kinked.
- 33** Free the yellow composite support housings from the composite heat exchanger support shroud. Repeat on the opposite side of the vehicle until the heat exchanger assembly is freed from the heat exchanger support shroud.
- 34** Remove the yellow composite support housings from the OE intercooler (x1 on each side) and set them aside, out of the work area.
- 35** Remove the intercooler/radiator assembly along with the heat exchanger support shroud.
- 36** Depress the composite tabs that affix the top of the radiator to the OE intercooler.
- 37** Depress the composite tabs that affix the top of the radiator to the OE intercooler.
- 38** Lift the OE radiator upward to free the radiator tabs from the seats on the OE intercooler. Gently set the radiator on the lower support, ensuring it is not resting on the OE intercooler. Reinstall the x1 T30 Torx screw (A) loosely at the upper left of the heat exchanger support housing to secure it for OE intercooler removal.
- 39** With a 4mm and 5mm allen key/ socket, assemble all brackets onto the Revo intercooler loosely except for the left/right upper condenser clips. The left/right hanger brackets can be installed and fully tightened to 5.75 ft-lb (69 in.-lbs). Ensure these are oriented like the OE intercooler hanger dowels. Follow the assembly pictures for bracket and hardware placement. Tighten all brackets with locating edges onto the Revo intercooler enough so that they cannot spin 360 degrees.
- 40** Place the OE yellow support housings onto the Revo hanger brackets ensuring that they are facing in the correct direction. The "T" channel on the housings should face upward.
- 41** With a 5mm allen key/socket, tighten the upper left/right condenser brackets to 5.75 ft-lb (69 in.-lbs). Do not install the condenser clips at this time.
- 42** Place the Revo intercooler with brackets onto the lower stand that currently supports the OE radiator. Lift the radiator up and sit it into the lower radiator brackets on the Revo intercooler, ensuring the composite radiator tabs are sitting inside the Revo lower radiator bracket provisions, not on top of the bracket (A).



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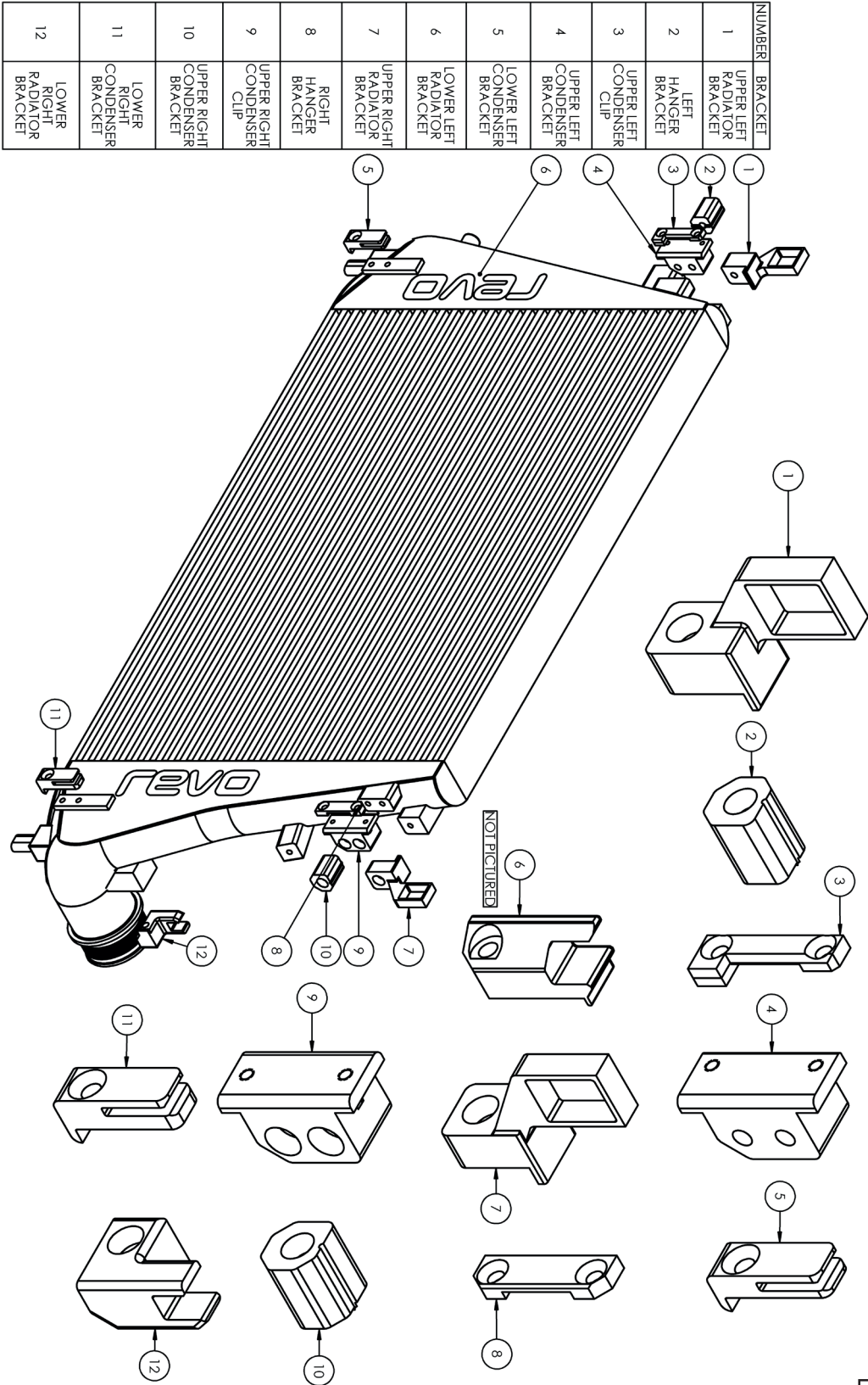
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- 43** Lean the OE radiator toward the Revo intercooler and rotate the upper radiator brackets onto the OE radiator, ensuring the upper composite locking tabs on the OE radiator engage with the Revo brackets. With a 5mm allen key/ socket, tighten the upper and lower radiator brackets to 5.75 ft-lb (69 in.-lbs). Ensure the lower radiator tabs are fully seated in the Revo lower radiator brackets (i.e. the composite radiator tabs touch the bottom of the bracket bore).
- 44** Lift the newly installed heat exchanger assembly up and have another person slip the bottom of the heat exchanger support shroud underneath the assembly. Lower the heat exchanger assembly into the shroud and seat the bottom locating dowels on the Revo intercooler into the OE rubber grommets at the bottom of the shroud.
- 45** Before engaging the OE yellow housing clips into the shroud, reinstall the condenser by placing it in front of the Revo intercooler, sliding the lower condenser ears into the lower Revo condenser brackets and installing the upper left/right condenser clips onto the base brackets.
- 46** With and 4mm and 5mm allen key/socket, tighten the lower condenser brackets and upper condenser clips to 5.75 ft-lb (69 in.-lbs).
- 47** Lean the heat exchanger assembly forward and engage the yellow support housings to the shroud. Ensure that all yellow support clips are fully engaged to the shroud.
- 48** Reinstall all OE parts. Reinstallation is the reverse of removal. Follow all factory torque specifications during reinstallation of OE parts.
 - 48.1** When reinstalling the crash bar, note the location of the crash sensor harnesses before the installation. The harnesses naturally sit in front of the frame rail mounting face and can easily become pinched and cut during reinstallation of the crash bar.
 - 48.2** When installing the Revo silicone boost hoses and clamps via a 10mm socket/wrench, note the location of the clamp studs to ensure they will not contact any surrounding parts during vehicle operation.

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