

Fitting Instructions

Revo Charge Cooler System 3.0T B8.5 S4 (8K)/S5 (8T)

Fitting Difficulty



Dealer Fitment Recommended

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P-Clip	2
M8x16 Cap Head	6
M8x10 Cap Head	2
M6x10 Cap Head	2
M8 Flat Washer	6
M8 Lock Washer	2
M8 Copper Washer	2
M6 Flat Washer	2
M6x15 Self-tapping Screw	8
O-ring	2

Recommended Tools

Tools	Size
Ratchet	
Extension	
Sockets	7, 8, 10, 13mm
Torx Bits	T25, T30
Hex Key	5, 6mm
Circlip Pliers	
Spanner	13mm
Centre Punch	
Thread Lock	
Drill	
Drill Bit	4mm
Coolant	
Eye Protection	



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



Fitting Instructions

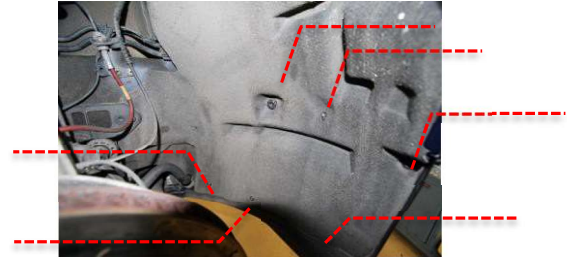
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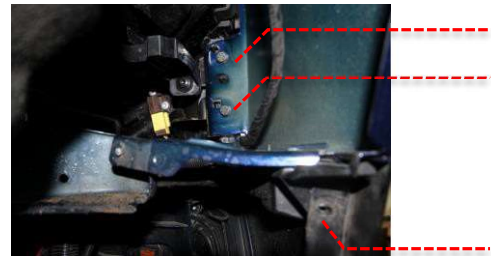


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- 1 Raise the vehicle and remove the front wheels. Remove the 4 x T25 screws and 2 x plastic clips in the wheel arch linings.



- 2 Pull the wheel arch liner back and remove the 2 x 10mm bolts holding the bumper in place and disconnect the fog light. Next, loosen the other 2 x 10mm bolts on the other side. Note: only loosen do not remove.



- 3 Remove the undertray.



- 4 Lower the vehicle and open the bonnet. Remove the front slam panel by removing 4 x bolts/clips holding it in place, then remove the 2 x T25 screws securing the air intake section and remove. Once removed remove the 2 x T25 bolts indicated.



- 5 On each side of the vehicle gently pull the bumper to release it from the wheel arches.

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



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- 6 Disconnect the horns, headlight washers and temperature sensor, as shown.



- 7 Remove the headlight by removing the 5 x T30 bolts, rubber pipe and electrical connector.



- 8 Clamp the 2 x coolant hoses going into the OE heat exchanger to minimise coolant loss. Disconnect the 2 x hoses and drain any coolant into a suitable container.



- 9 Remove the T30 screw holding the heat exchanger to the radiator and remove the unit, tip any coolant into a suitable container.



- 10 Using the M8x16 bolts, M8 flat washers and M8 lock washers attach the Revo brackets to the Revo heat exchanger, as shown.



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- 11 Place the Revo heat exchanger onto the crash bar in the centre. Note: you may need to support it.



- 12 Once the Revo heat exchanger is properly centred, mark around the location of the brackets on both sides, as shown. Once marked remove from vehicle and place to one side.



- 13 Remove the crash bar by removing the 4 x 13mm bolts (2 x each side). You may have to lever the tabs on the top and bottom of the bar for it to become loose enough.



- 14 Place the crash bar on a flat surface and remove the Revo heat exchanger. Line the brackets up in the positions you marked previously and mark the 4 x holes each side for drilling, as shown.



- 15 Before drilling the holes remove the headlight washer hose from inside the crash bar.



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- 16 Centre punch the holes you marked, then with a 5mm drill bit drill the 4 x marked points on each side (from step 14). Note: use eye protection!



- 17 Place the brackets back on the crash bar and using the 8 x M6x15 self-tapping screws secure the brackets to the bar. Ensure that the longer end of the bracket is facing down, as shown.



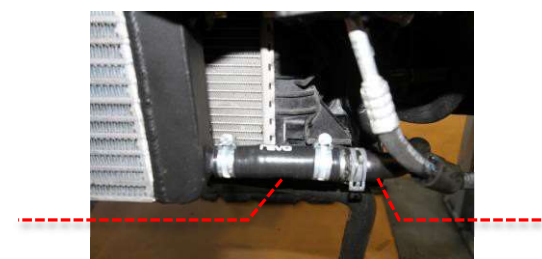
- 18 Loosely mount the Revo heat exchanger onto the brackets using the same bolts as before, in step 10. Make sure the Revo logos on the heat exchanger are facing the crash bar.



- 19 Attach the long silicone hose to the 90° outlet on the cooler with one of the hose clamps, as shown. Then using the 2 x P-clips, M6x10 bolts and washers secure the hose to the back of the cooler.



- 20 Reinstall the crash bar in reverse of removal and thread the washer pipe back through. Push the short silicone joiner hose and small aluminium pipe connector together and secure using one of the hose clamps, then install onto the Revo heat exchanger inlet pipe and secure with a hose clamp. Finally attach to the OE pipe, as shown.



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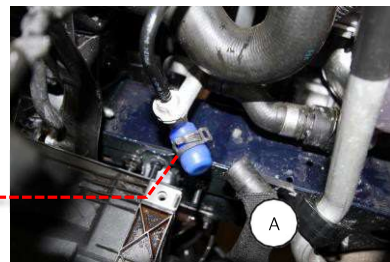


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- 21 To install the Revo reservoir tank, firstly pinch the lower coolant tank pipe and return pipe, as shown.



- 22 Remove the lower pipe (A) and install the cap using the OE hose clamp, as shown.



- 23 Remove the complete pipe assembly from the top of the pump by removing the hose clamp and pulling through the top.



- 24 Remove the 2 x 10mm nuts as shown.



- 25 Attach the new Revo tank reservoir bracket, as shown, using the 2 x 10mm nuts previously removed. Ensure to tighten these fully as access later will be very difficult.



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- 26 Attach the new Revo silicone S hose to the top of the pump using the OE hose pipe clamp. Then feed the silicone hose from the Revo heat exchanger up alongside it.



- 27 Place some thread-lock onto the base of the Revo reservoir tank thread and then install the rubber O-ring and tighten. Next install the new silicone hoses to the corresponding pipes on the base of the Revo reservoir tank and tighten, using the hose clamps.



- 28 Bolt the Revo reservoir to the bracket using the M8x16 bolts, flat washers and lock washers, as shown.



- 29 Apply some thread-lock to the M8x10 bolt and using the copper washer bolt to the underside of the Revo heat exchanger (A). Leave the top one off (B) until you have filled the system with coolant and then install as before. Tighten the bracket bolts on the Revo heat exchanger, so it is secure.



- 30 Refill the OE coolant tank using the correct coolant, then fill the Revo reservoir with coolant until approx. 50mm from the top of the cap, fit the cap, note: it is important to apply a small amount of copper grease to the threads of the cap to allow it to be easily removed. Run the engine to operating temperature and check all connections for leaks. Finally, check and top up coolant levels, when safe to do so. Refit the bumper and all OE parts back to vehicle. Reinstallation is the reverse of removal. Follow any factory torque specification during reinstallation of OE parts. Check all sensors and connectors are reconnected.



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