

Fitting Instructions

Revo Intercooler Kit 3.0 TFSI B9 S4/S5/SQ5 (8W/F5/FY)

Fitting Difficulty



Dealer Fit Recommended

Contents

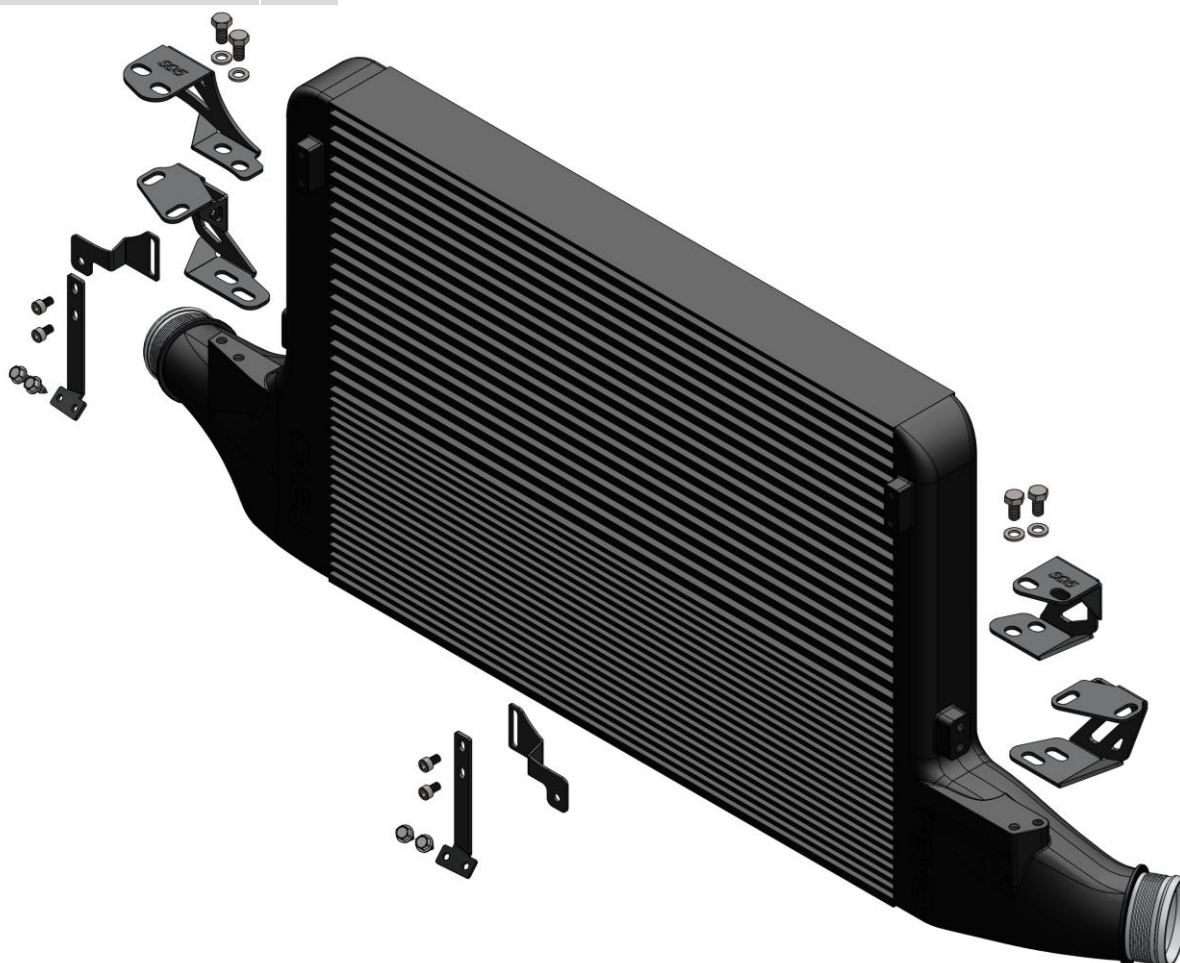
Description	Qty
Revo Intercooler	1
Revo B9 S4/S5 Outlet Upper Bracket	1
Revo B9 S4/S5 Outlet Lower Bracket	1
Revo B9 S4/S5 Inlet Upper Bracket	1
Revo B9 S4/S5 Inlet Lower Bracket	1
Revo B9 SQ5 Outlet Upper Bracket	1
Revo B9 SQ5 Outlet Lower Bracket	1
Revo B9 SQ5 Inlet Upper Bracket	1
Revo B9 SQ5 Inlet Lower Bracket	1
M8 x 1.25 x 16mm Bolt	4
M8 Flat Washer	4
M6 x 1.0 x 10mm Bolt	4
M6 x 15mm Self-Tapping Screw	4

Recommended Tools

Tools	Size
Ratchet	
Extension	
Sockets	7, 8, 10, 13, 16mm
Hex Bits	5mm
Torx Bits	T25, T30
Long Nose Pliers	
Straight Screwdriver	Medium
Marker (SQ5 Only)	
Drill (SQ5 Only)	
Drill Bit (SQ5 Only)	5mm



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.



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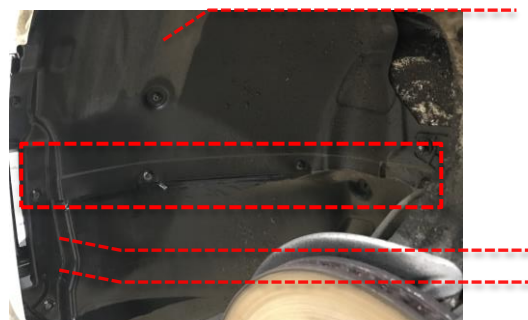


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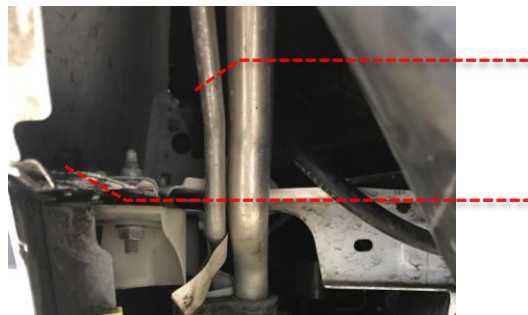


Installation was performed on a UK-spec. B9 S4. Installation on other vehicles will be similar but may not be exact

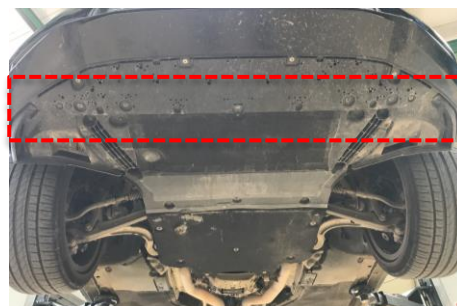
- 1 Put the vehicle on a lift and raise in the air, then remove both front wheels. Remove (7) bolts (T25 bit) from the wheel arch liner. Peel back wheel arch liner to give access behind it



- 2 Remove the (1) plastic push-fit trim clip and the (1) bolt (T30 bit) that hold the bumper to the wing. Repeat steps 1 and 2 on the opposite side of the vehicle



- 3 Remove the (5) larger bolts (T30 bit) and the (2) smaller bolts (T25 bit) that secure front bumper to main undertray



- 4 Lower the vehicle and release the bonnet. Remove the bonnet release handle from the slam panel by pressing in the release catch at the 12 o'clock position.

Note – Do not close the bonnet without refitting the release handle



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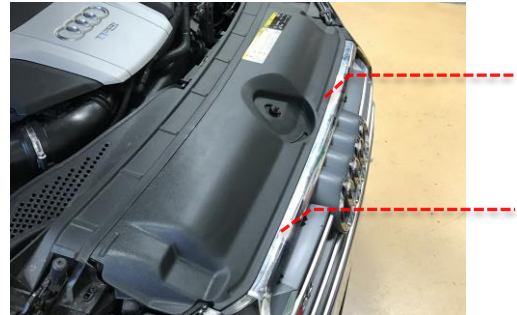
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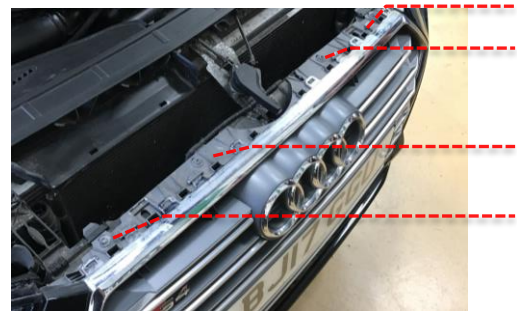


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- 5 Remove the slam panel by unclipping along the front edge and then sliding it out from under the front air scoop



- 6 Remove the (4) bolts (T30 bit) from the top of the bumper



- 7 Carefully pull the bumper free from the corner at each side. Do not attempt to remove the bumper at this stage, only disengage the sides of the bumper from the chassis clips



- 8 Whilst standing in front of the vehicle, carefully pull the bumper forward to release it. Before the bumper can be removed fully, disconnect the front parking sensor located on the left-hand side of the bumper (shown in step 9 below)



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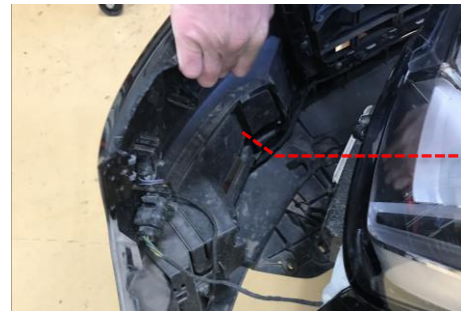
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- 9 Once the parking sensor is disconnected, carefully place the bumper out of the work area



- 10 Remove the plug from the sensors at each end of the crash bar foam padding. Pull the red clip out and then squeeze the plug to release



- 11 Remove the crash bar foam padding and place out of the work area



- 12 Remove the (2) bolts (13mm socket) and (1) bolt (T30 bit) from each side of the crash bar

Note – If the vehicle is fitted with headlight washer units, disconnect the hoses at each of the crash bar by squeezing the blue tabs and pulling the connector free. Use a cap or plug to prevent the washer fluid from leaking out



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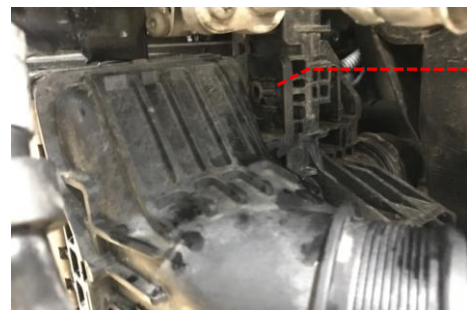
- 13 Disconnect the ambient air temperature sensor from the crash bar and then place the crash bar out of the work area



- 14 Using a 7mm socket, loosen the hose clip on the discharge pipe and remove the pipe from the stock intercooler. Repeat for the throttle pipe intercooler connection on the opposite side



- 15 Using a pair of long nose pliers, release the clips at the top of the stock intercooler, one on each side



- 16 Roll the stock intercooler towards you to remove it from the bottom clips, lift the unit out and place it out of the work area



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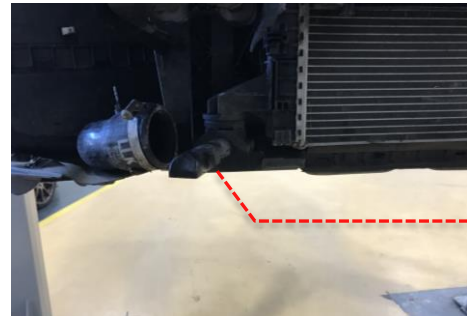
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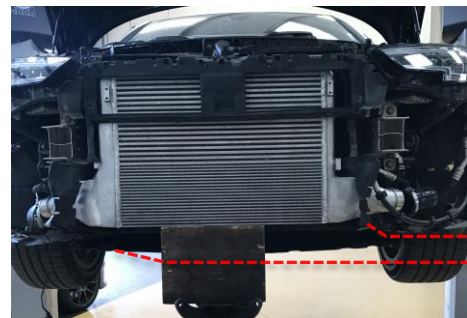
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- 17 Remove the (1) bolt (8mm socket) from the plastic bottom radiator mount, pull the mount towards you and twist it outwards. Repeat for opposite side

Note - These radiator mounts do not get removed from the vehicle, only moved outward from the center of the vehicle. Do not attempt to remove from vehicle



- 18 Position the new Revo intercooler in front of the radiator and use a gearbox stand/trolley jack and a piece of wood to support the bottom of the core. Straighten the bottom radiator mounts and refit the bolts removed in the last step (8mm socket)



- 19 Loosely refit the crash bar but do not bolt it back in place

Note - If installing the Revo intercooler on an SQ5, continue with Steps 20a - 24a. Otherwise, skip to Step 20 below.



- 20a With the intercooler in the vehicle and supported, fit the new Revo lower intercooler brackets labelled SQ5 to the Revo intercooler using the (4) M8 bolts (16mm socket) and (4) M8 washers provided. All washers are placed on top of the brackets. Do not tighten yet



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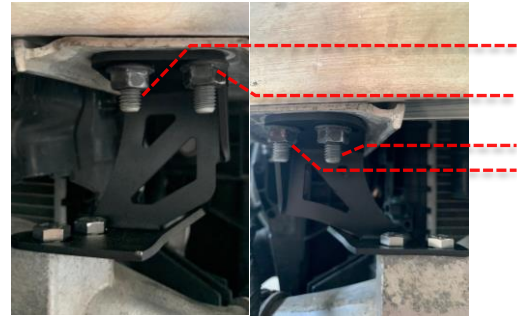
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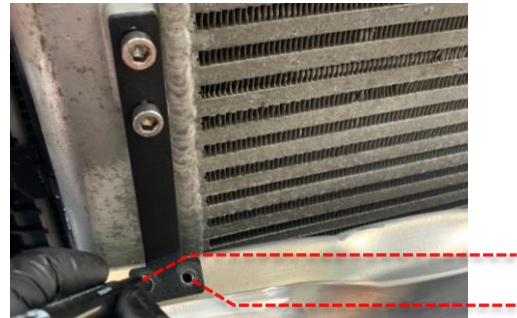


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21a Refit the (4) stock bolts (13mm socket) through the Revo lower cooler brackets, chassis and crash bar. Do not tighten yet. Remove the gearbox stand/trolley jack and position the intercooler correctly. The core should have a minimum of 4mm clearance to all parts including the core support cross bar, air conditioning condenser front face and condenser tank on the outlet side of the intercooler. Tighten the (4) crash bar bolts to factory torque specifications



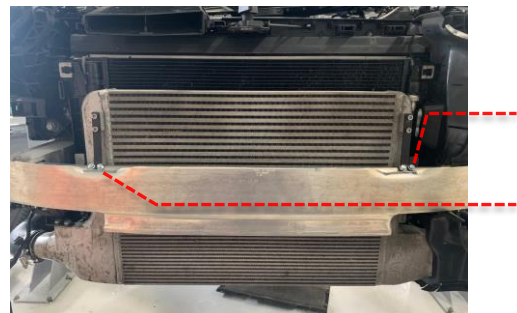
22a Fit the (2) smaller Revo intercooler top “T” brackets to the top of the Revo intercooler using the (4) M6 bolts provided (5mm hex bit) and then mark the crash bar in (4) places through the lower bracket holes with a marker



23a Remove the Revo “T” brackets, intercooler and crash bar. Use a 5mm drill bit to drill out the bracket holes marked



24a Reinstall the Revo intercooler and Revo top “T” brackets. Use the (4) self-tapping bolts provided to fasten the “T” brackets to the crash bar (10mm socket). Confirm ~4mm clearance to all parts around the intercooler and tighten the (4) M8 lower bracket bolts (16mm socket) to 15 ft-lbs (20Nm). Tighten the (4) M6 top “T” bracket bolts (5mm hex bit) to 49 in-lbs (5.5Nm). Tighten the (4) stock crash bar bolts (13mm socket) to factory torque specifications. Skip to step 24 below.



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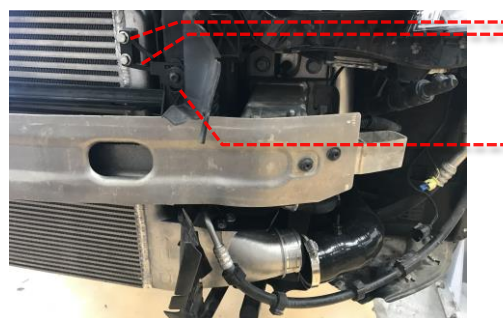
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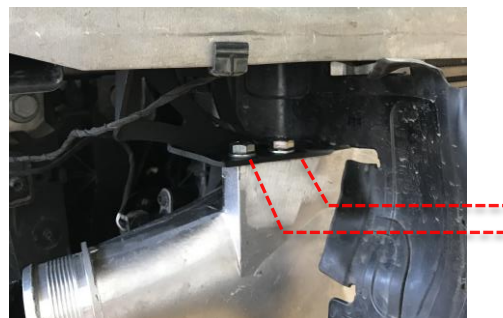


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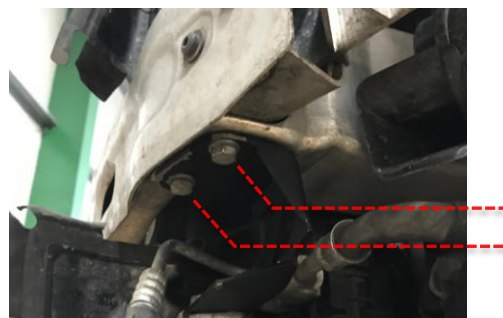
- 20** Fit the (2) smaller Revo intercooler brackets to the top of the Revo intercooler using the (4) M6 bolts provided (5mm hex bit) and then refit the (2) bolts (T30 bit) that go through the Revo bracket and top radiator mount. Do not tighten yet



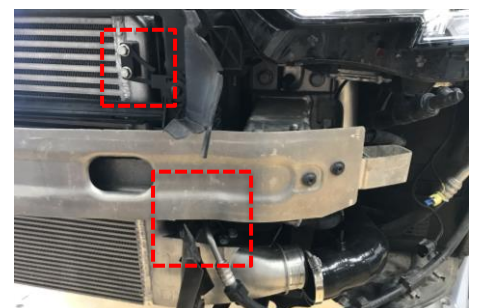
- 21** Fit the new Revo lower intercooler brackets to the Revo intercooler using the (4) M8 bolts (16mm socket) and (4) M8 washers provided. All washers are placed on top of the brackets. Do not tighten yet



- 22** Refit the (4) stock bolts (13mm socket) through the Revo lower cooler brackets, chassis and crash bar. Do not tighten yet. Remove the gearbox stand/trolley jack and position the intercooler correctly. The core should have a minimum of 4mm clearance to all parts including the core support cross bar, air conditioning condenser front face and condenser tank on the outlet side of the intercooler. Tighten the (4) crash bar bolts to factory torque specifications



- 23** Tighten the (4) M8 bolts (16mm socket) that hold the lower brackets to the Revo intercooler to 15 ft-lbs (20Nm). Tighten the (4) M6 bolts (5mm hex bit) holding the top brackets to the Revo intercooler to 49 in-lbs (5.5Nm). Tighten the (2) stock bolts (T30 bit) that hold the top brackets to the top radiator mounts to factory torque specifications



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- 24 Refit all stock parts back to the vehicle. Reinstallation is the reverse of removal. Follow any factory torque specification during reinstallation of stock parts. **Check the bonnet release handle is reconnected.** Check all sensors are reconnected. Test drive the vehicle to ensure no leaks/part interference during operation. Your installation is now complete

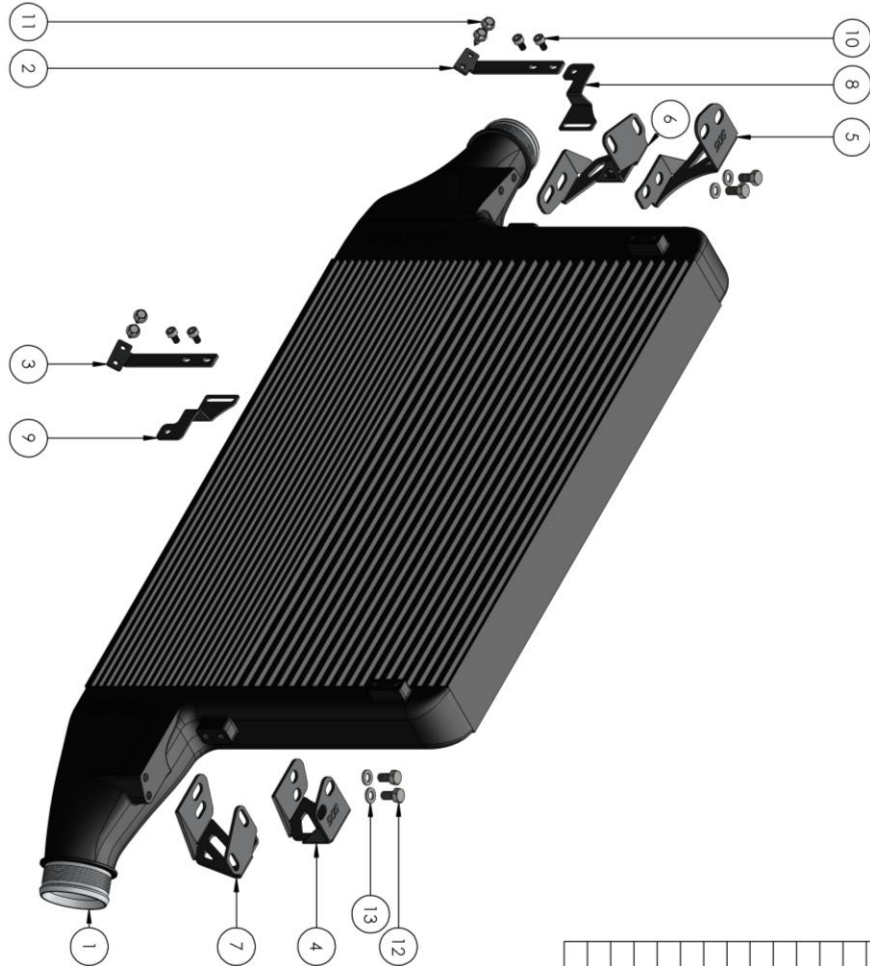
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ITEM NO.	DESCRIPTION	QTY.
1	REVO INTERCOOLER	1
2	B9 SQ5 UPPER INLET BRACKET	1
3	B9 SQ5 UPPER OUTLET BRACKET	1
4	B9 SQ5 LOWER INLET BRACKET	1
5	B9 SQ5 LOWER OUTLET BRACKET	1
6	B9 S4/S5 INTERCOOLER LOWER INLET BRACKET	1
7	B9 S4/S5 INTERCOOLER LOWER OUTLET BRACKET	1
8	B9 S4/S5 INTERCOOLER UPPER INLET BRACKET	1
9	B9 S4/S5 INTERCOOLER UPPER OUTLET BRACKET	1
10	M6 x 1.0 x 10MM CAP HEAD BOLT STAINLESS STEEL	4
11	M6 x 15MM SELF-TAPPING SCREW ZINC PLATED	4
12	M8 x 1.25 x 16MM HEX HEAD BOLT STAINLESS STEEL	4
13	M8 8.4MM ID x 15MM OD x 1.8MM THICK FLAT WASHER STAINLESS STEEL	4