

SAFARI

4X4 ENGINEERING

SCFHZJ70W

SAFARI FRONT MOUNT INTERCOOLER SYSTEM TOYOTA 70 SERIES LANDCRUISER (1HZ) – WIDE NOSE



Parts List

ITEM	PART NO	DESCRIPTION	QTY
1	330-242-700	HOSE – COMPRESSOR DISCHARGE	1
2	330-025-200	JOINER – 63.5mm x 100mm LONG	1
3	330-242-750	HOSE – INTERCOOLER INLET	1
4	330-041-200	ASSEMBLY – INTERCOOLER	1
5	330-039-100	BRACKET – INTERCOOLER MTG – UPPER LEFT	1
6	330-039-300	BRACKET – INTERCOOLER MTG – UPPER RIGHT	1
7	330-039-200	BRACKET – HOOD CATCH SUPPORT	1
8	000-123	STUD – M6 x 1.0 (40mm O/L)	4
9	330-421-200	SPACER – UPPER MTG	6
10	000-310-100	WASHER – BODY – M6 x 16mm	6
11	000-204	NUT – NYLOC – M6 x 1.0 – S/S	5

12	000-091-300	BOLT – B/H – M6 x 30mm	1
13	000-013-100	BOLT – HEX – SEMS – M8 x 25mm	1
14	330-043-700	HOSE – INTERCOOLER OUTLET	1
15	330-034-150	BRACKET – HOSE SUPPORT – OVERFLOW BOTTLE	1
16	330-025-000	JOINER – HOSE – 63.5mm x 60mm LONG	1
17	330-043-750	HOSE – MANIFOLD INLET	1
18	330-034-050	BRACKET – HOSE SUPPORT – AIR CON. COMP.	1
19	750-953-009	EDGING – RUBBER – 90mm LONG	2
20	000-305	WASHER – STAR – M8	4
21	000-302-200	WASHER – FLAT – M8	11
22	000-899-070	CLAMP – PIPE RETAINING – 70mm x 20mm	3
23	330-026-000	ADAPTOR – INLET MANIFOLD	1
24	000-044	BOLT – S/H – M8 x 25mm	1
25	000-585	ADAPTOR - 90° - 1/8" NPT x 1/4" BARB	1
26	000-808-080	HOSE – 1/4" ID x 800mm	1
27	000-917	CLAMP – HOSE – SPRING 1/4"	2
28	000-987-178	CABLE TIE – 178mm	4
29	000-925	CLAMP – HOSE – 12mm x 40/60mm	1
30	000-927N	CLAMP – HOSE – 12mm x 60/80mm	5
31	000-928N	CLAMP – HOSE – 12mm x 70-90mm	2
32	330-034-200	BRACKET – SUPPORT	2
33	000-943	CLAMP – HOSE SUPPORT – 8/12	2
34	000-1022-300	BOLT – B/H – M5 x 0.8 x 16mm	2
35	000-221	NUT – NYLOC – 5mm x 0.8mm	2
36	000-320	WASHER – FLAT – 5mm	4
37	000-012	BOLT – HEX – 8mm x 1.25 x 20mm	4
38	000-205	NUT – NYLOC – 8mm x 1.25	3
39	000-043-300	BOLT – B/H – M8 x 1.25 x 20mm	2

Fitment to:

- Front of Vehicle

Fitting Time:

- 150 Minutes

Special Tools:

- Die Grinder
- Super Glue
- Body Saw
- Drill

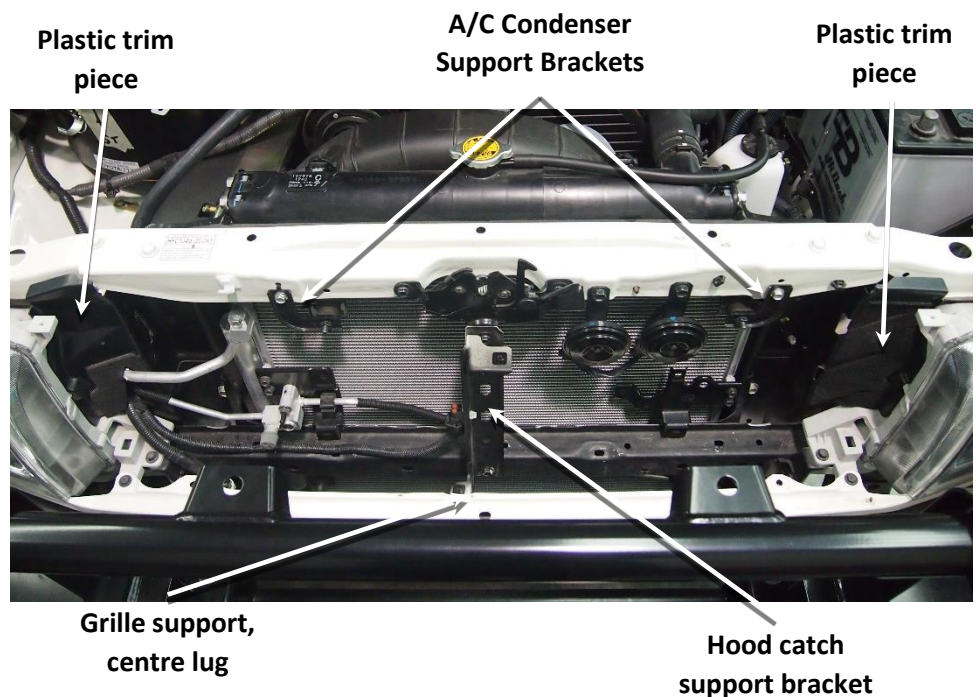
Prior to commencing the installation, it is the installers' responsibility to verify that all components are correct.

Installation Guide

1

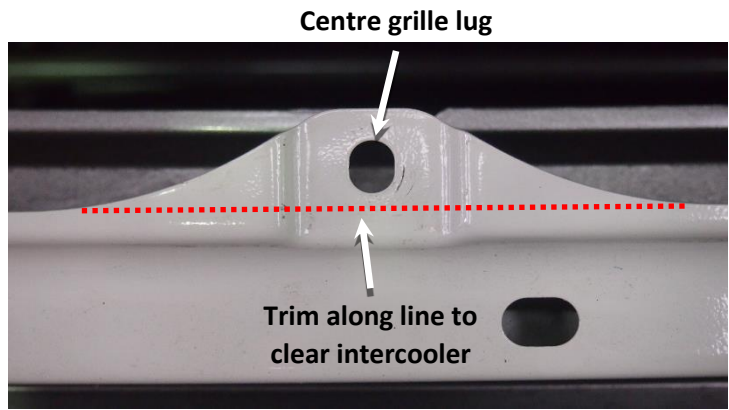
Remove the following:

- Front grille
- Plastic tray from beneath the radiator.
- Plastic trim pieces beside headlights.
- Hood catch support bracket
- Air-conditioner condenser support brackets.
- Unclip Horn wiring from the Left-Hand side radiator support panel.

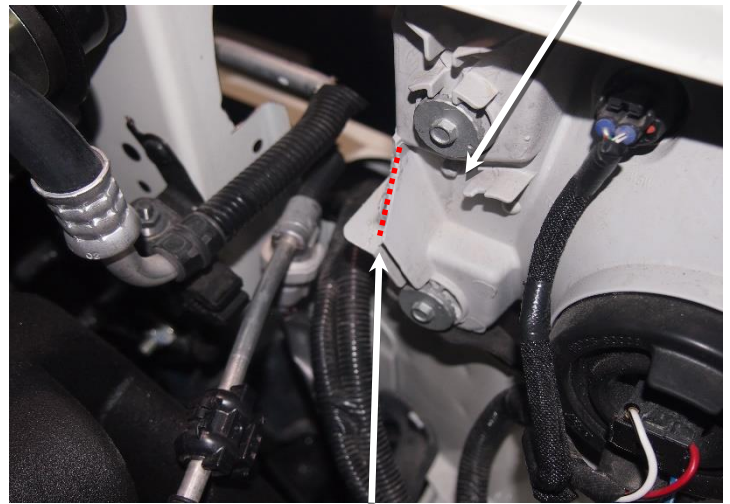


Trim the following:

- Centre lug of the lower grille support panel. (see photo in step 1 for location)
- Right-hand side headlight

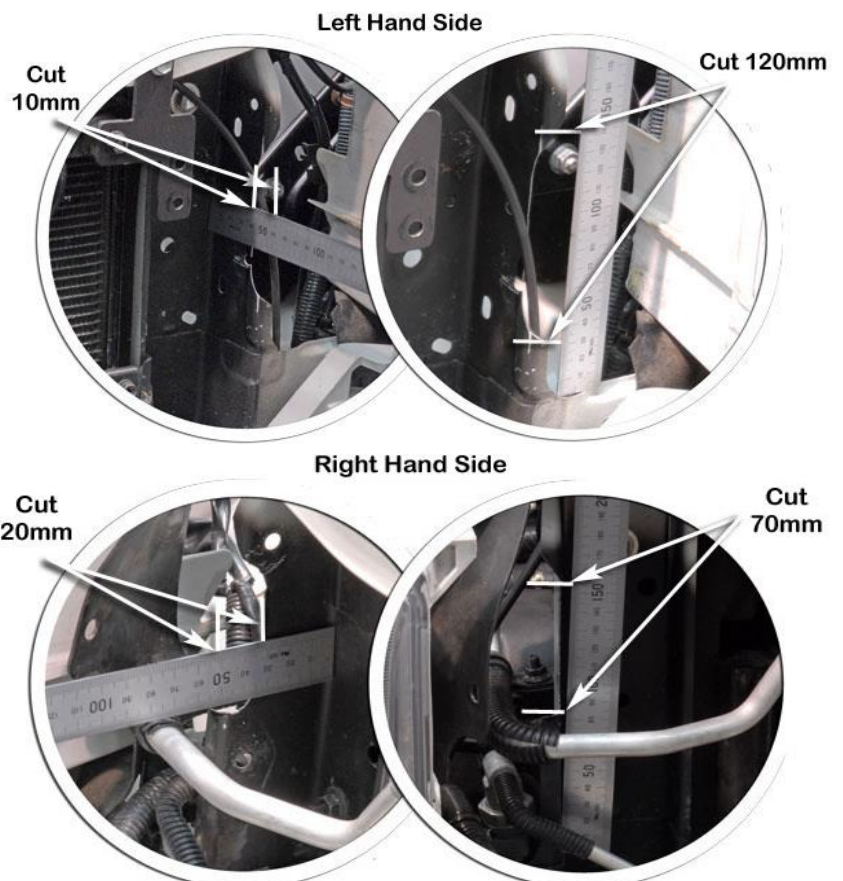


Trimmed RH headlight



Trim along line to clear intercooler hose

Trim radiator support panels (Left-hand & Right-hand sides) next to headlights.



4

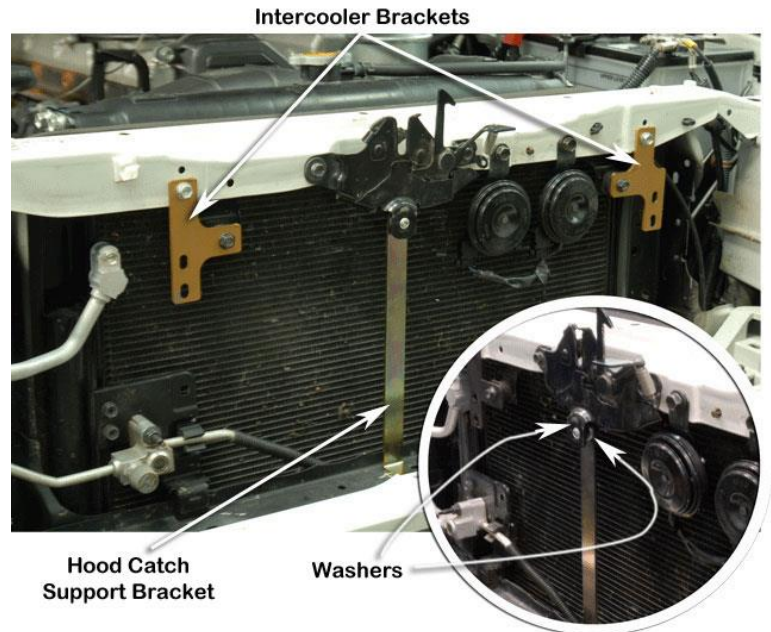
Install Rubber Edging (Item 19) to radiator support trimmed edges, securing with Super Glue.



5

Install Hood Catch Support Bracket (Item 7) using M6 x 30mm B/H bolt (Item 12), 2 x M6 washers (Item 10) and nyloc nut (Item 11). Use the washers (Item 10) on either side of the hood catch support bracket.

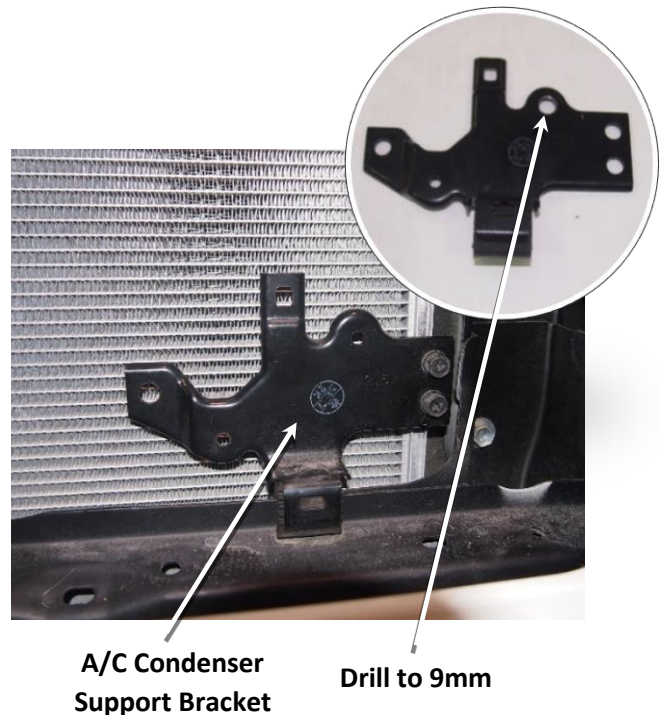
Install Upper Intercooler mounting Brackets (Items 5 & 6) using standard bolts and nuts.



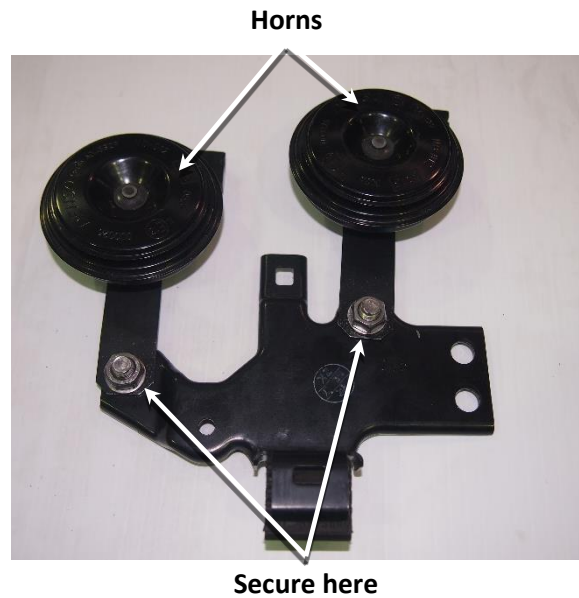
6

Remove A/C condenser bracket from left hand side of vehicle.

Drill out hole to 9mm as shown.

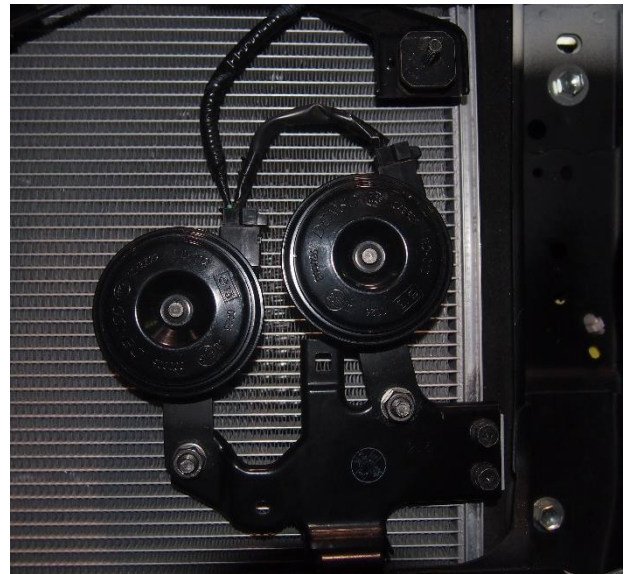


Remove horns and secure to A/C condenser bracket. Use 2x M8 x 20 x 1.25 B/H bolts (Item 39), 4x M8 washers (Item 21) and 2x M8 nyloc nuts (Item 38). Ensure that the nuts are facing towards the front of the vehicle as shown.



- 8 Re-fit A/C condenser bracket with horns to vehicle.

Re-clip the wiring loom for the horn back to into its original position and connect to horns.

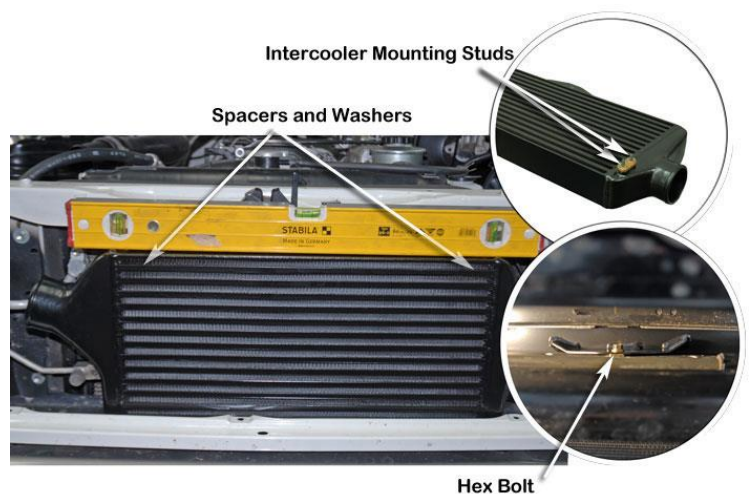


- 9 Install 4 x M6 Studs (Item 8) into Intercooler (Item 4).

Install 6 x spacers (Item 9) on studs (3 each side).

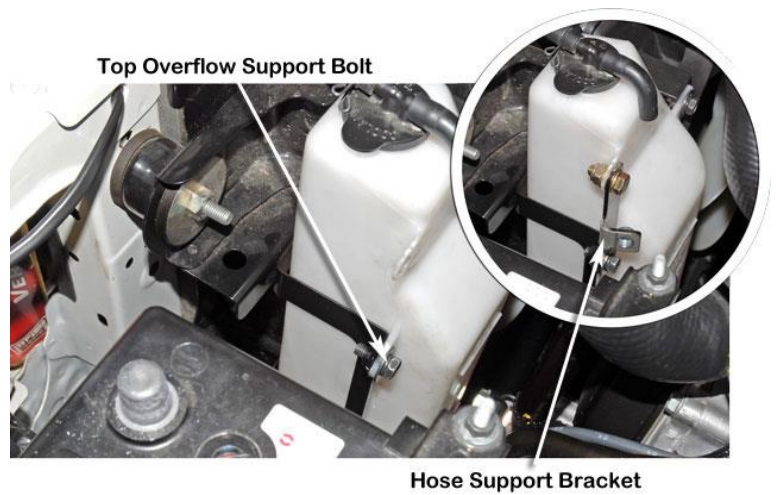
Install intercooler to vehicle. Secure intercooler to mounting brackets using 4 x M6 Washers (Item 10) and 4 x M6 Nyloc Nuts (Item 11).

Install M8 x 25mm SEMS Hex Bolt (Item 13) to the underside of the intercooler.



- 10** Remove top radiator overflow bottle support bolt.

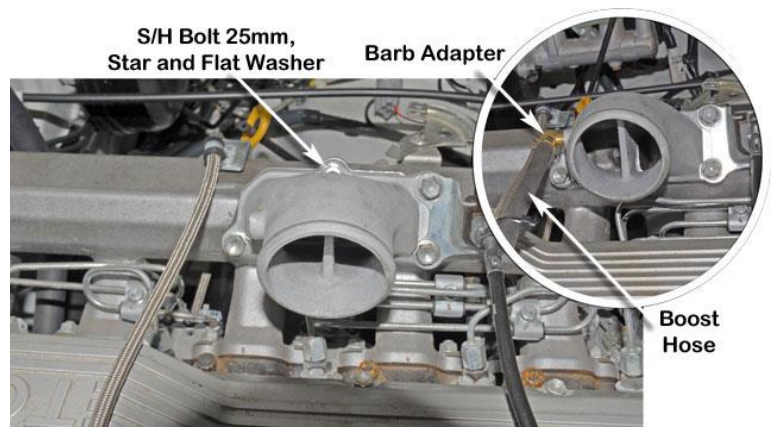
Install Hose Support Bracket (Item 15) securing with standard bolt and M8 x 20mm bolt (Item 37) and Flat Washers x 3 (Item 21) using one washer as a spacer between bracket and overflow bottle and M8 Nyloc Nut (Item 38).



- 11** Install Inlet Manifold Adaptor (Item 23) using 2 x Long and 1 x Short standard M8 bolts and S/H Bolt M8 x 25mm (Item 24) with Star Washer (Item 20) and Flat Washer (Item 21).

Install Barb Adaptor (Item 25) using sealant to Inlet Adaptor (Item 23).

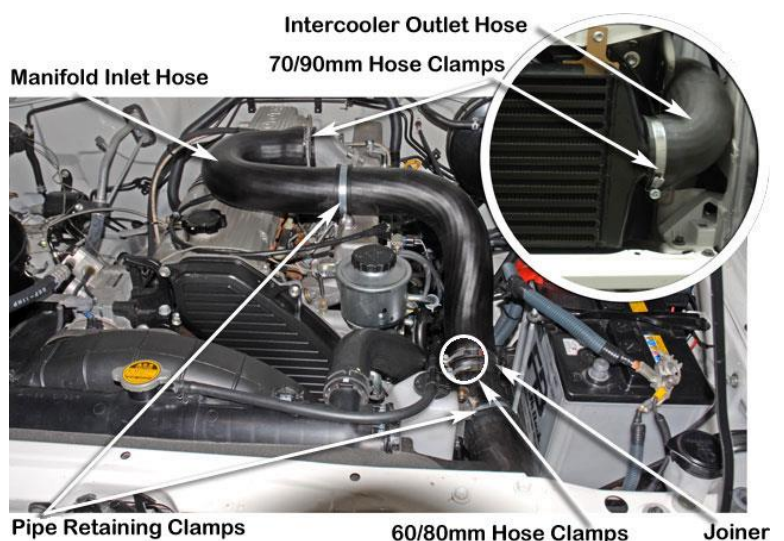
Install Boost Hose (Item 26) and secure using 1/4" Hose Clamps (Item 27) and Cable Ties (Item 28).



- 12** Install Intercooler Outlet Hose (Item 14) and Manifold Inlet Hose (Item 17) with 60mm Long Joiner (Item 16).

Secure using Hose Clamps 60/80mm (Item 30) and Hose Clamps 70/90mm (Item 31).

Secure to Hose Support Bracket and inlet manifold using Pipe Retaining Clamps (Item 22), M8 Bolts (Item 37), Star Washers (Item 20) and Flat Washers (Item 21).

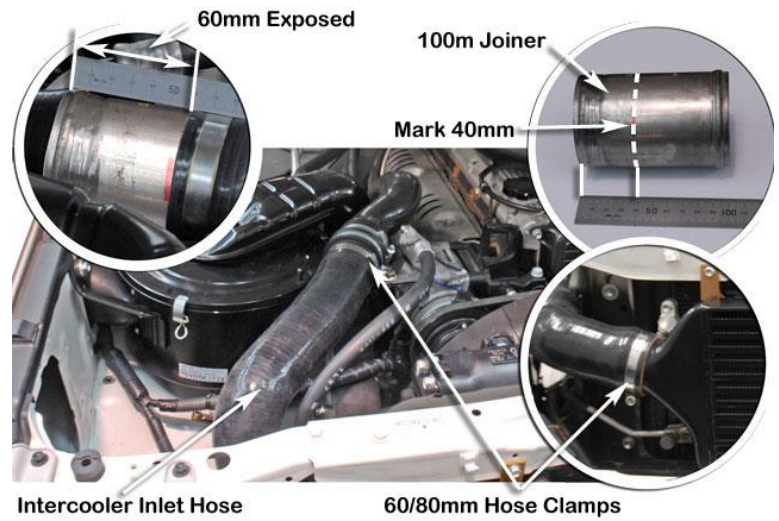


Mark 100mm Long Joiner (Item 2) at 40mm.

Install the 40mm end of the joiner into the Intercooler Inlet Hose (Item 3) and secure with 2 x 60/80mm Hose Clamps (Item 30) to the joiner and the intercooler.

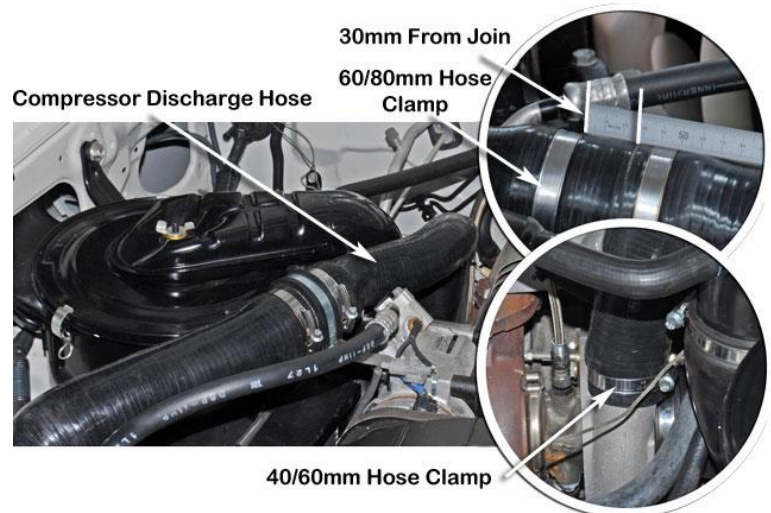
Install the Compressor Discharge Hose (Item 1) using a 60/80mm Hose Clamp (Item 30) and a 40/60mm Hose Clamp (Item 29).

Ensure hose clamp on the compressor discharge hose is 30mm from the join in the hoses.



Intercooler Inlet Hose

60/80mm Hose Clamps



Compressor Discharge Hose

30mm From Join

60/80mm Hose Clamp

40/60mm Hose Clamp

Install Hose Support Bracket (Item 18) to top front of air conditioner compressor mounting bolt.

Install Pipe Retaining Clamp (Item 22) using Hex Bolt 8mm (Item 37), Star Washer (Item 20) and Flat Washer (Item 21) to air conditioning compressor support bracket.



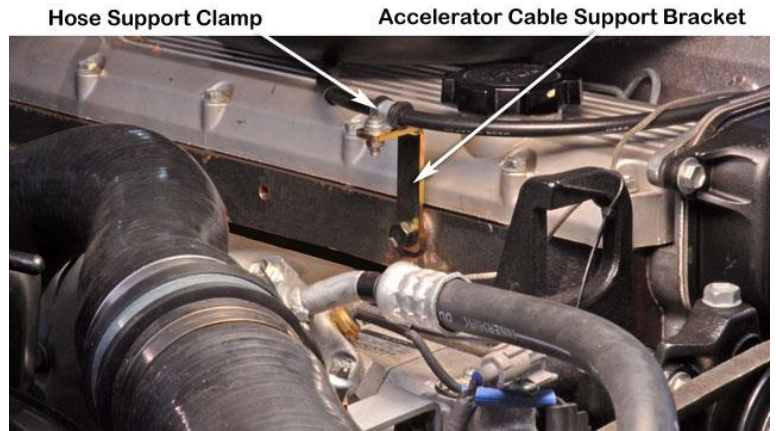
Hex Bolt

Pipe Retaining Clamp

Air-Con Compressor Support Bracket

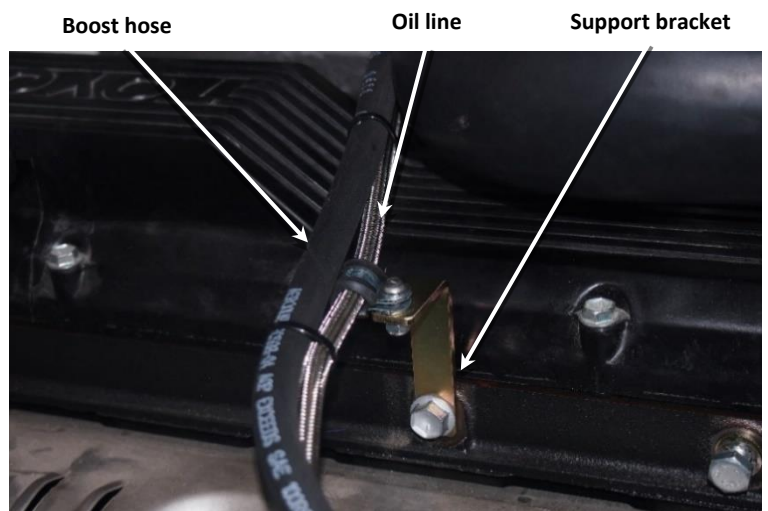
Install Accelerator Cable Support Bracket (Item 32) with Hose Support Clamp (Item 33).

Secure using M5 Bolt (Item 34), 2 x flat Washers (Item 36), M5 Nut (Item 35) and standard factory M8 Bolt.



Install Oil Line Support Bracket (Item 32) with Hose Support Clamp (Item 33).

Secure using M5 Bolt (Item 34), 2 x flat Washers (Item 36), M5 Nut (Item 35) and standard factory M8 Bolt. Cable tie boost hose to the oil line.



Trim Grille down 20mm within areas shown to clear intercooler.

Note: Do not use lower grille locking clips when reinstalling grille.

