

SS79HFZ

SAFARI V-SPEC SNORKEL

To Suit: TOYOTA LANDCRUISER 70 series (Wide Nose)

Suits: 4.2L 6cyl Diesel (1HZ engine)

Replaces Factory Toyota Raised Air Intake (Genuine Snorkel)



25/05/2017

Parts List

ITEM	PART NO	DESCRIPTION	QTY
1	330-133-750	BODY - SNORKEL (SS76HF Trimmed)	1
2	000-135-800	3.5" AIR RAM ASSEMBLY	1
3	330-032-700	BRACKET - UPPER MOUNTING	1
4	000-002-100	BOLT - HEX - 6mm x 1.0 x 14mm (SEMS)	2
5	000-951-300	SCREW - S/T - 4.2mm x 16mm - S/S	3
6	000-960	INSERT - PLASTIC	3
7	000-110	STUD - 8mm x 1.25 x 25mm - S/S	5
8	000-311-300	WASHER - BODY - 8mm x 30mm - S/S	5
9	000-205-300	NUT - NYLOC - 8mm x 1.25mm - S/S	5
10	330-435-000	RUBBER PAD	1
11	330-704-000	PLATE - BLANK-OFF	1
12	000-376	WASHER - RUBBER - 8.5mm x 33mm	1
13	330-024-650	HOSE - AIR ENTRY	1
14	000-908	CLAMP - HOSE - 70/90mm	1
15	000-909	CLAMP - HOSE - 80/100mm	1
16	000-914/B	CLAMP - HOSE - No.56 (BLACK)	1
17	330-017-750	TEMPLATE - GUARD PANEL	1



4X4 ENGINEERING

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Installation Guide

Fitment to:

- Right Hand Side

Fitting Time:

- 150 min

Special Tools:

- Body Saw (Reciprocating)
- Step Drill
- 6.5mm Drill Bit
- Files
- Loctite 243 (Thread Lock)
- Masking Tape
- Touch-up Paint

Prior to commencing the installation, it is the installer's responsibility to verify that all components and particularly the guard panel template (Item 17) are correct.

1 Remove the following in accordance with the factory service manual:

- Air Cleaner Assembly

2

Remove and discard the Factory Toyota Raised Air Intake components (shown).

The following hardware must be retained, two A-pillar bracket mounting bolt assemblies and the rear mounting bolt assembly as shown.



3

The two factory mounting nut assemblies shown, which are spot welded to the inside of the guard panel must be removed.

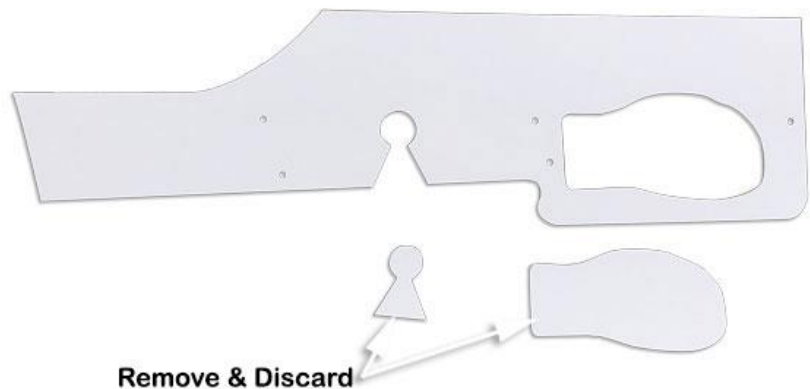
Drill a pilot hole in the centre of each spot weld retaining the mounting nut assemblies to the guard panel, use a 6.5mm drill bit to drill out the spot welds.

Use a small pry bar or flat blade screwdriver to break the spot welds from the guard panel and remove the mounting nut assemblies.



4

Remove and discard the perforated section from the guard panel template (item 17) as shown.

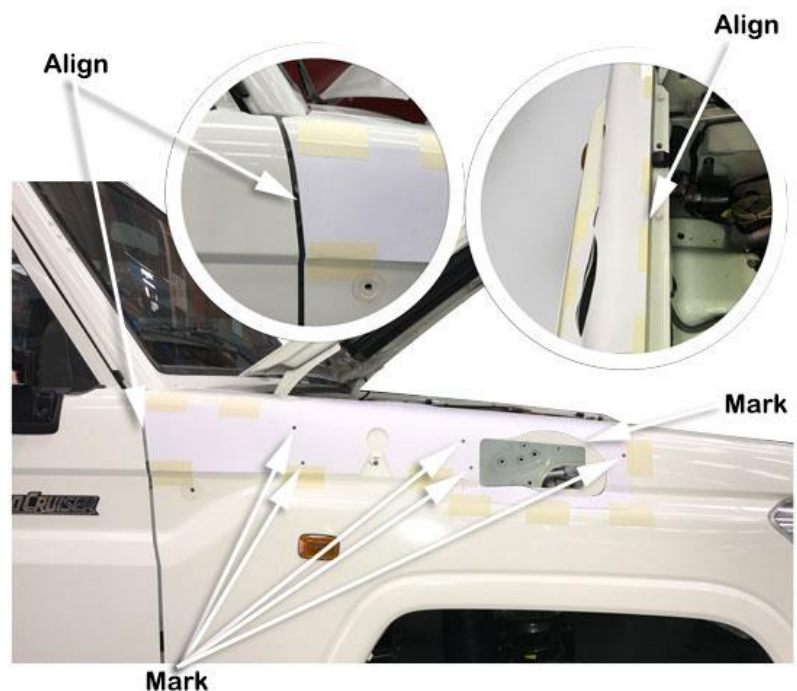


5

Align the guard panel template (item 17) to rear and upper edges of the right hand guard panel.

Tape the template to the guard panel with masking tape, mark all five hole positions and the snorkel body outlet hole cut out with a felt tip pen.

Remove the template.



Use a body saw to trim away the marked cut out section of the guard panel as shown.

If the vehicle is fitted with factory Toyota flares: *prior to any cutting or drilling, place a strip of masking tape along the flare seal and guard panel to prevent metal filings being trapped between the seal and guard panel.*



Drill a pilot hole for each of the marked hole positions.

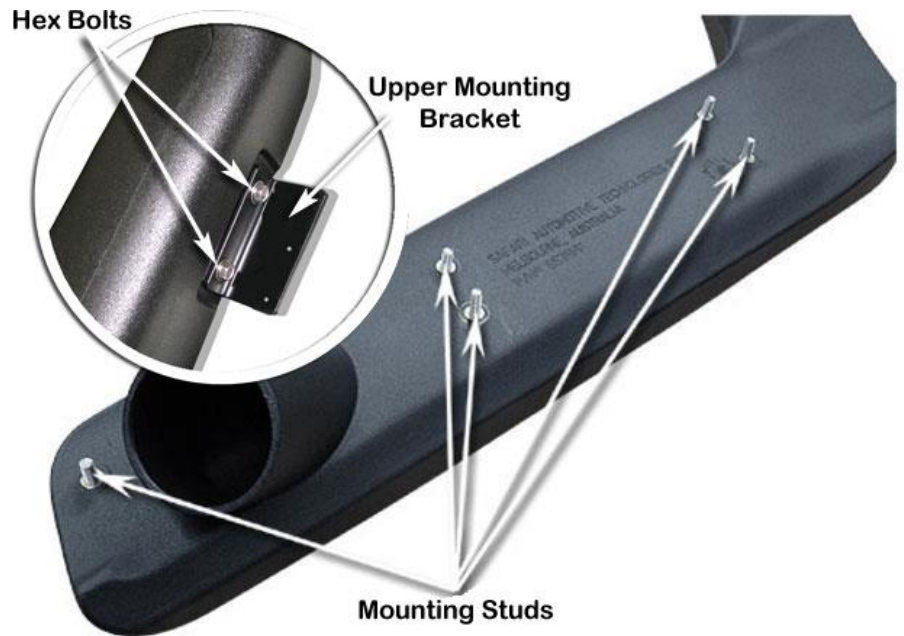
Use a step drill to drill the five mounting hole positions to 16mm diameter.

Deburr and paint all holes and cut sections of guard panel to prevent rust.



Install the upper mounting bracket (item 3) to the snorkel body (item 1) with hex bolts (item 4).

Apply loctite 243 to each of the stainless steel mounting studs (item 7) and install the studs finger tight into the snorkel body (item 1) mounting inserts.



Place a strip of masking tape along the A-pillar panel.

Carefully install the snorkel body (item 1) to the guard panel.

With the snorkel body correctly positioned, mark the three upper mounting bracket hole positions onto the masking tape as shown.

Hint: if necessary push the top of the snorkel body towards the windscreen rubber, so that the edge of the upper mounting bracket has approximately 1mm gap to the windscreen rubber.



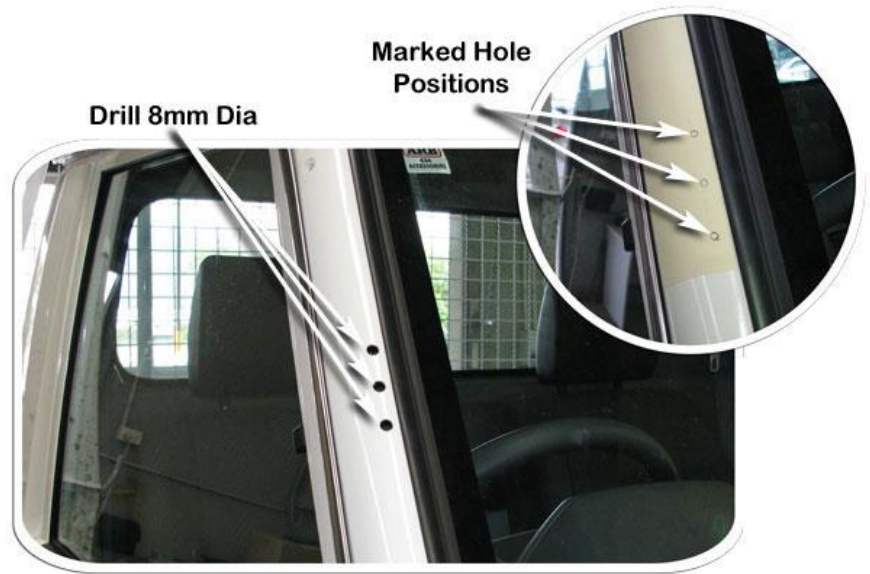
Mark Hole Positions

Remove the snorkel body (item 1) from the vehicle and remove the upper mounting bracket (item 3) from the snorkel body.

Drill a pilot hole at each of the three marked hole positions.

Drill each hole position to 8mm diameter with a step drill or 8mm drill bit.

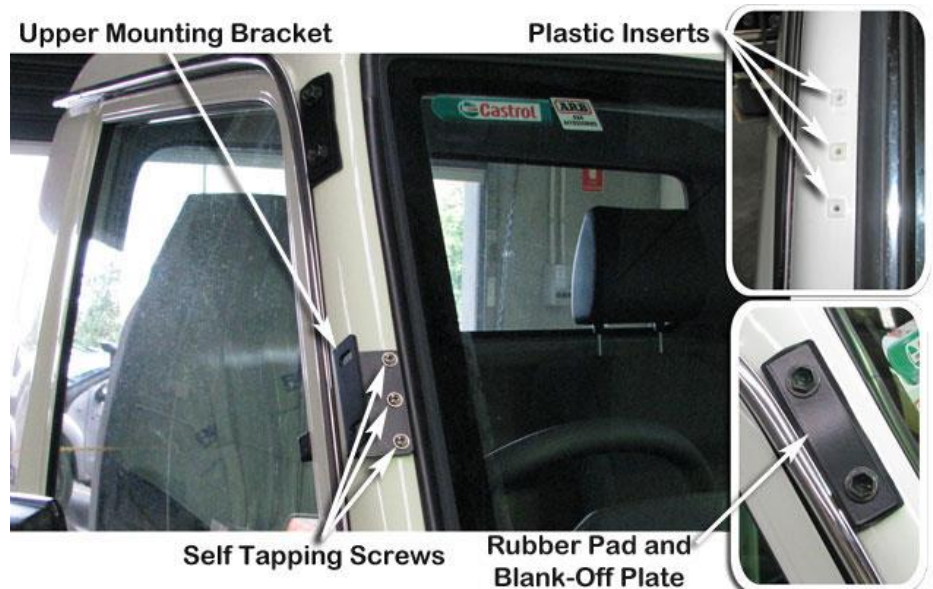
Deburr and paint holes to prevent rust.



Install the plastic inserts (item 6) into the 8mm diameter holes in the A-pillar.

Secure the upper mounting bracket (item 3) to the A-pillar with three stainless steel self-tapping screws (item 5).

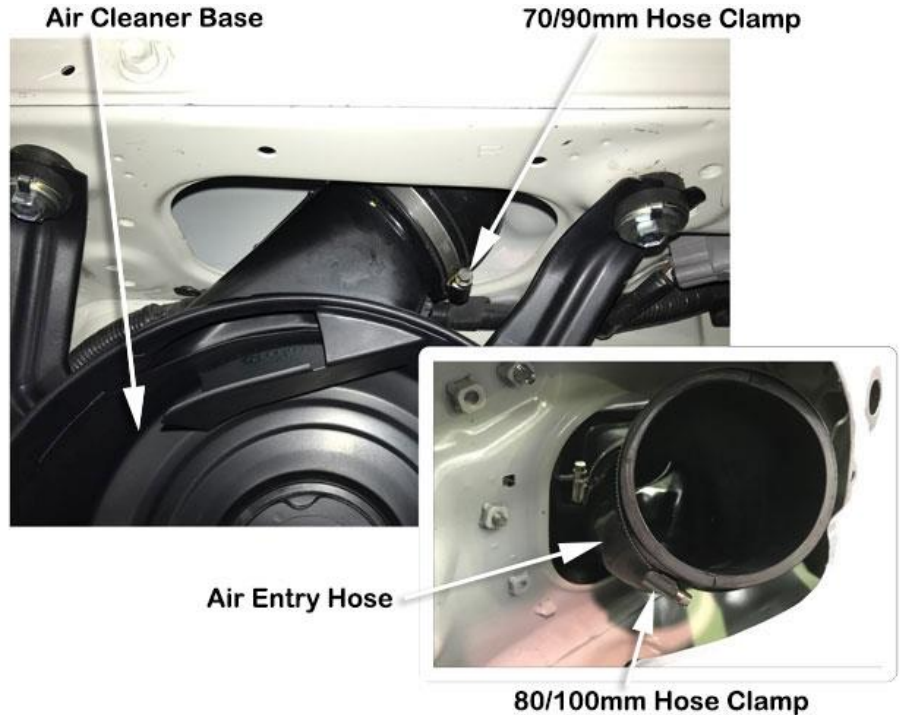
Install the blank-off plate (item 11) and rubber pad (Item 10) to the A-pillar, secure with standard Toyota bolt assemblies removed in step 2.



Fasten the air cleaner base into the vehicle with the original mounting hardware.

Loosely install a 70/90mm hose clamp (item 14) onto the air entry hose (item 13) and install the air entry hose onto the air cleaner base inlet.

Loosely install a 80/100mm hose clamp (item 15) onto the air entry hose inlet.



Apply lubricant to the inlet of the air entry hose (item 13).

Carefully install the snorkel body (item 1) to the guard panel, guiding the snorkel body outlet snout into the air entry hose (item 13).

Align the snorkel body to the guard panel and upper mounting bracket, fasten the snorkel body to the guard panel body washers (item 8) and nyloc nuts (item 9).

Fasten the snorkel body to the upper mounting bracket with hex bolts (item 4).

Install the rubber washer (item 12) to the standard Toyota bolt assembly removed in step 2 and fasten into the lower mount hole in the guard panel.



14

Align the air entry hose (item 13) for best fitment (Ensure the air entry hose is correctly installed onto the air cleaner inlet).

Correctly position the 70/90mm and 80/100mm hose clamps onto the air entry hose and tighten both clamps.



15

Install the black hose clamp (Item 16) loosely to the base of the air ram assembly (Item 2).

Install the air ram assembly onto the snorkel body.

Align the air ram and tighten the black hose clamp (Item 16).



16

Install the standard air cleaner element, air cleaner lid and any other components removed during the installation process.

17

N.B. It is the installer's responsibility to ensure that all connections are watertight.