

# SS89HF

SAFARI V-SPEC SNORKEL  
 Toyota Land Cruiser 200 Series (MY16 Face Lift)  
 1VD-FTV 4.5Litre-V8 Intercooled Twin Turbo Diesel  
 (Does not suit GX model)



22/03/2016

## Parts List

ITEM	PART NO.	DESCRIPTION	QTY
1	370-133-400	BODY - SNORKEL (SS89HF)	1
2	000-135-800	3 ½" AIR RAM ASSEMBLY	1
3	370-032-400	BRACKET - UPPER MOUNTING	1
4	000-002-100	BOLT - HEX - 6mm x 1.0 x 14mm (SEMS)	2
5	000-951	SCREW - S/T - 4.2mm x 13mm - S/S	3
6	000-960	INSERT - PLASTIC	3
7	000-110	STUD - 8mm x 1.25 x 25mm - S/S	6
8	000-377	WASHER - RUBBER - 8.5 x 42 x 3mm	6
9	000-349-300	WASHER - BODY - 8.4mm x 40mm - S/S	6
10	000-205-300	NUT - NYLOC - 8mm x 1.25mm - S/S	6
11	370-024-200	HOSE - AIR ENTRY	1
12	000-910	CLAMP - HOSE - 90/110mm - S/S	1
13	000-1913	CLAMP - HOSE - 120/140mm - S/S	1
14	000-914/B	CLAMP - HOSE - SIZE 56 (BLACK)	1
15	370-016-400	GASKET - FOAM BODY (SELF ADHESIVE)	1
16	370-017-400	TEMPLATE - GUARD PANEL	1

## Installation Guide

### Fitment to:

- Right Hand Side

### Fitting Time:

- 150min

### Special Tools:

- 111mm hole saw
- Body saw (reciprocating)
- Step drill
- Masking tape
- Loctite 243 (thread lock)
- Touch-up paint
- Prep-wash

**Prior to commencing the installation, it is the installer's responsibility to verify that all components and particularly the template (Item 16) are correct.**

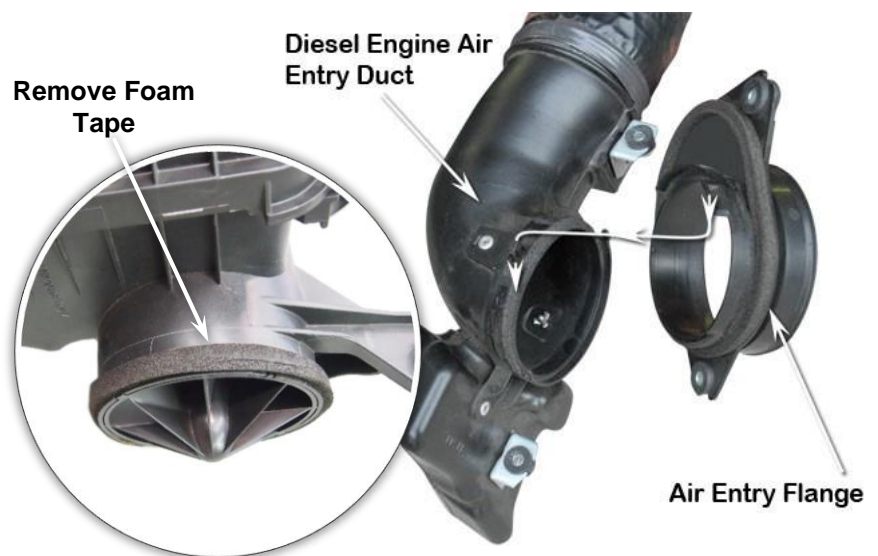
1

Remove the RHS mud flap, inner guard liner and the air cleaner assembly in accordance with the factory service manual.

2

Remove and discard the air entry duct and air entry flange.

Remove and discard the foam sealing tape from the air cleaner inlet snout.



3

Remove and discard the perforated section of the guard panel template (item 16) as shown.



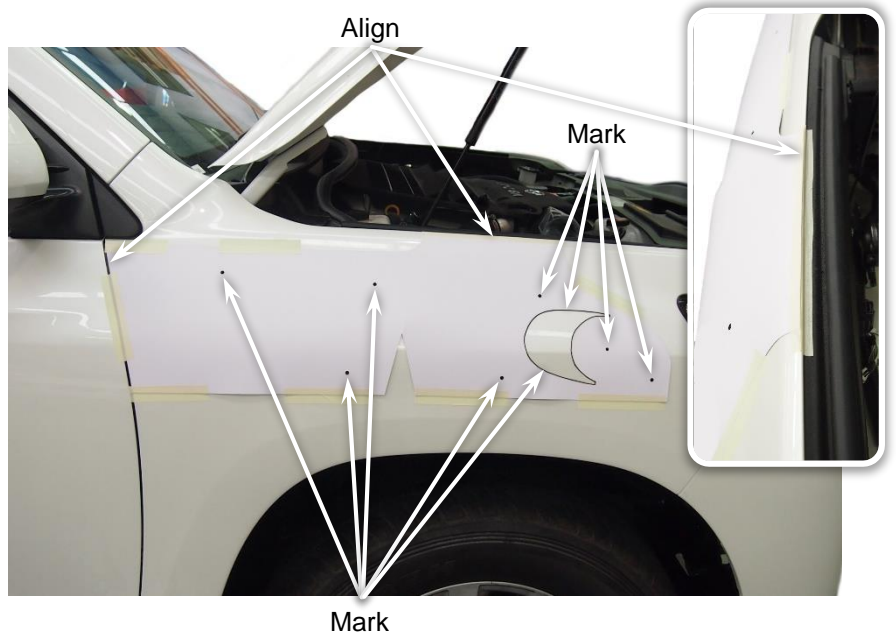
4

Align the guard panel template (Item 16) to the upper and rear edges of the right hand guard panel as shown.

Tape the template to the guard with masking tape.

Mark all hole positions and the cut out section with a felt tip pen.

Remove the template.



5

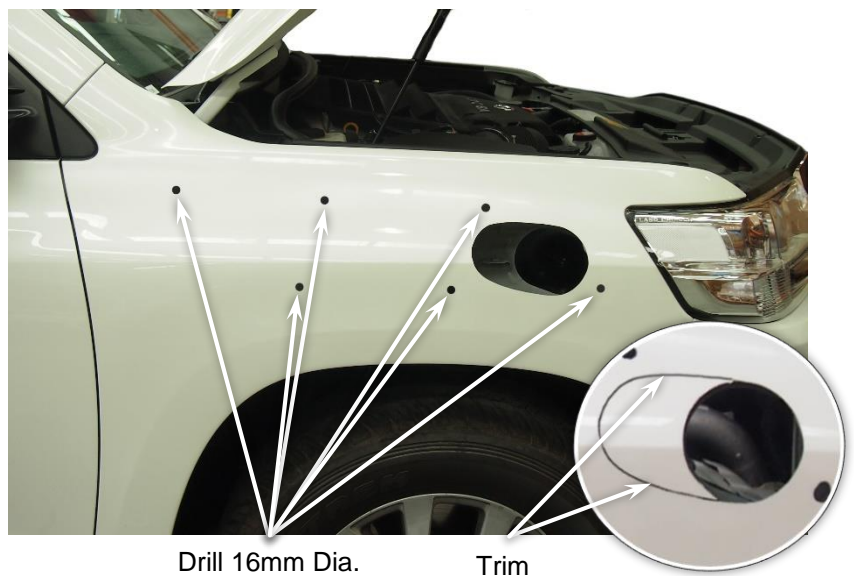
Drill a pilot hole for each of the marked positions.

Use a step drill to drill the 6 mounting holes to 16mm diameter.

Use a 111mm diameter hole saw to drill the snorkel body outlet snout hole position.

Use a body saw to trim away the rear section of the guard panel behind the 111mm diameter hole as per the template cut out.

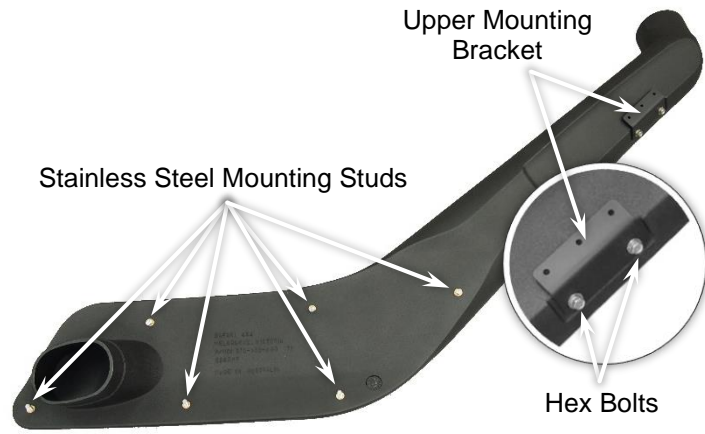
Deburr and paint holes.



6

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 finger tight into the snorkel body (item 1) mounting inserts as shown.



7

Remove the self-adhesive backing sheet from the foam body gasket (Item 15).

Align the foam body gasket (adhesive side down) to the back of the snorkel body and press down on the foam body gasket to adhere to the snorkel body (Item 1).

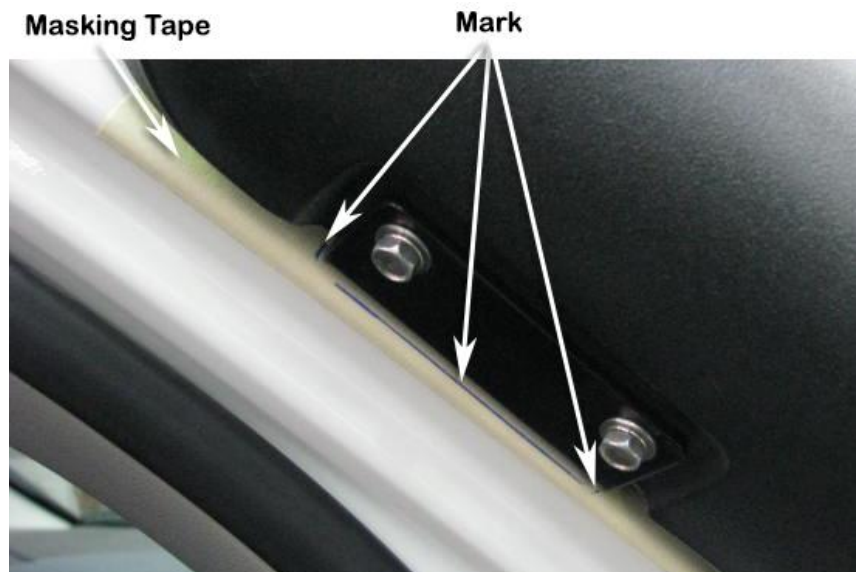


8

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

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

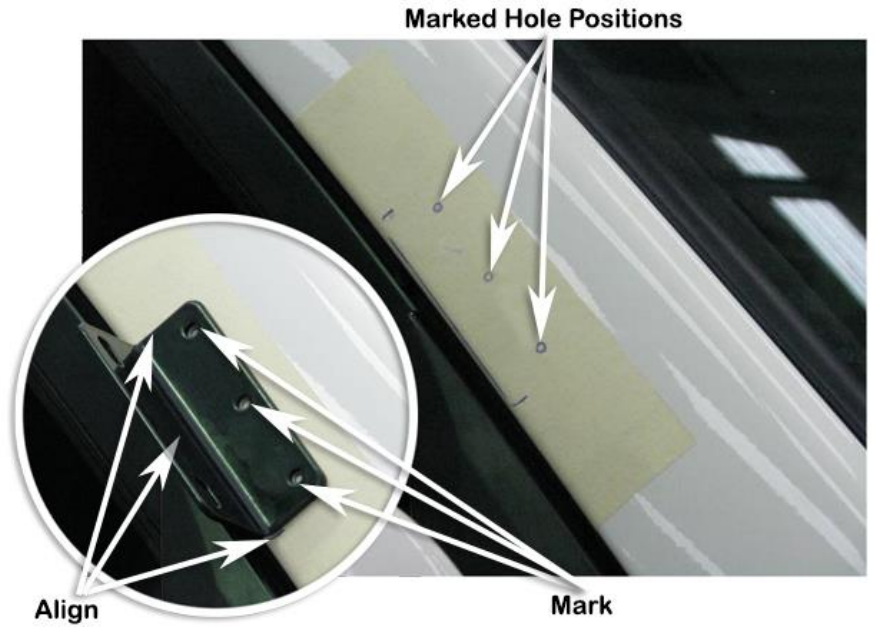
With the snorkel body correctly positioned, mark the outline of the upper mounting bracket (Item 3) onto the masking tape.



9

Remove the snorkel body (Item 1) from the vehicle, remove the upper mounting bracket (Item 3) from the snorkel body.

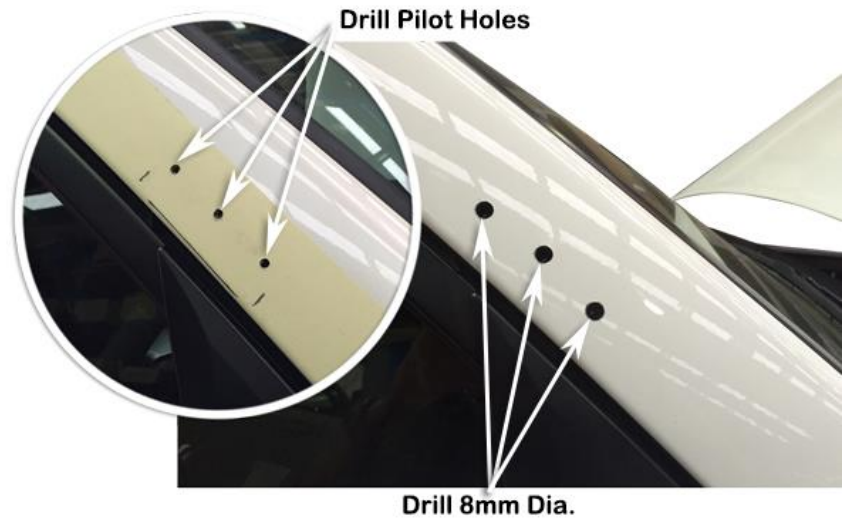
Position the upper mounting bracket onto the A-Pillar and align the bracket with the marked bracket outline. Mark the three mounting hole positions with a felt tip pen.



10

Drill a pilot hole for each of the three marked hole positions. Drill each pilot hole to 8mm diameter with a step drill or 8mm drill bit.

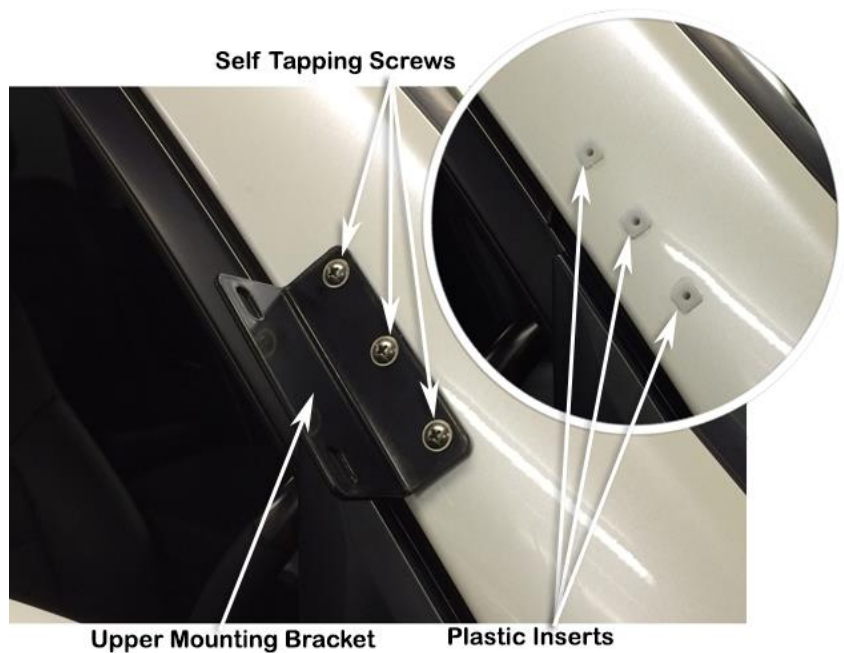
Deburr and paint holes.



11

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 self-tapping screws (Item 5).



12

### INSTALLER OPTION

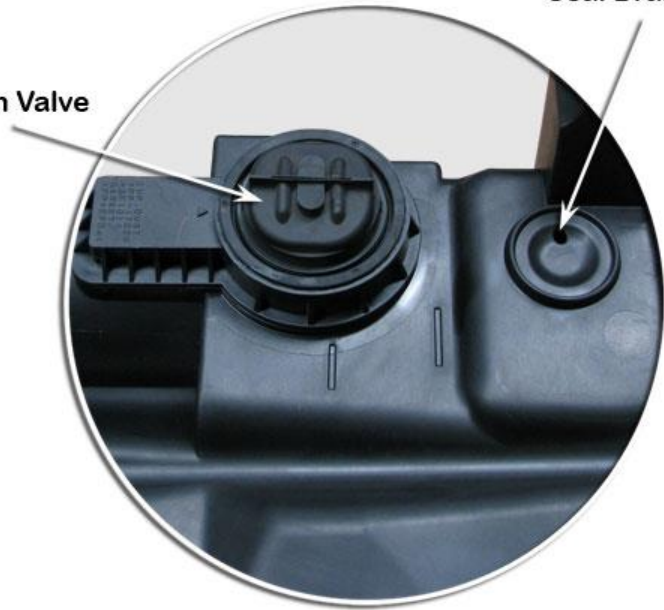
The air cleaner base contains a drain valve and a hole as shown. These can permit water to enter the air intake.

Safari advises that the drain valve and drain hole should be sealed to ensure a watertight installation.

Installer's Option

Seal Drain Valve

Seal Drain Hole



13

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

Loosely install a 90/110mm hose clamp (item 12) over the air cleaner inlet.

Apply lubricant to the round end of the air entry hose (item 11), install the hose through the hole in the inner guard panel and onto the air cleaner inlet, rotate and align the hose with the main hole in the guard panel.

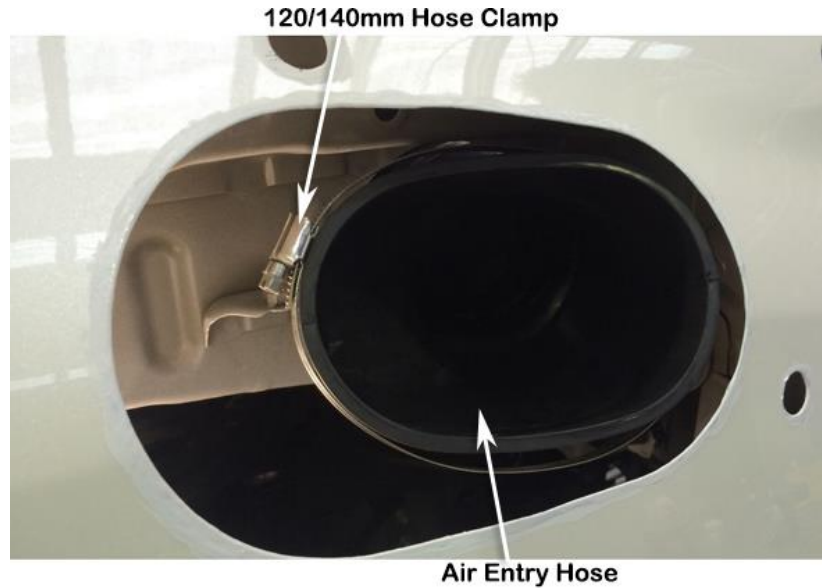
90/110mm Hose Clamp



Air Entry Hose

Carefully shape the 120/140mm hose clamp (item 13) to the oval shape of the air entry hose (item 11).

Loosely install the 120/140mm hose clamp (Item 13) onto the air entry hose (Item 11) and ensure that the hose clamp is orientated into the same position on the air entry hose as shown.

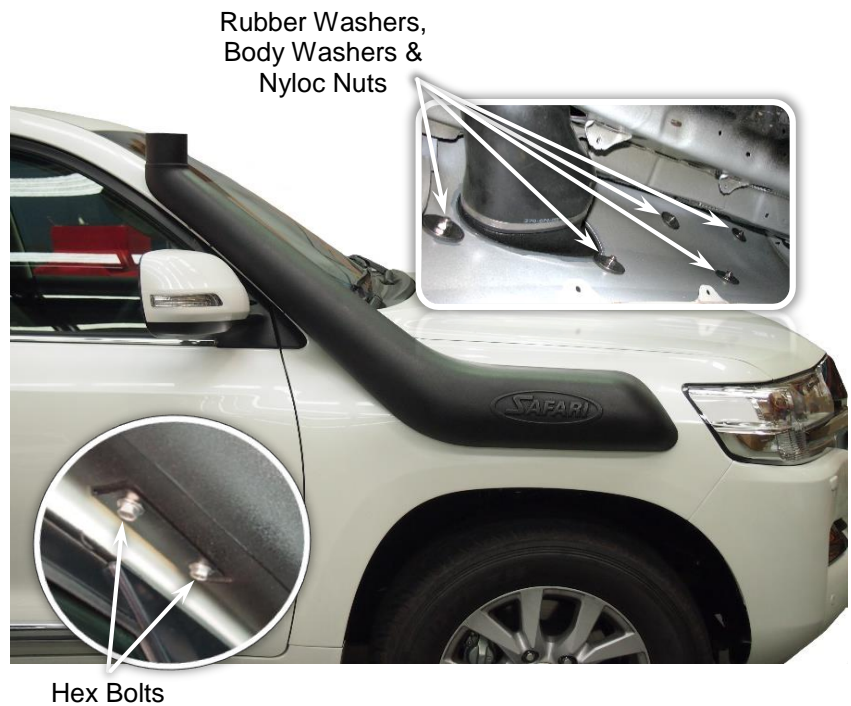


Apply lubricant to the inlet of the air entry hose (item 11).

Carefully install the snorkel body (item 1) to the guard panel, guiding the snorkel body outlet snout into the air entry hose (item 11).

Align the snorkel body to the guard panel and upper mounting bracket, fasten the snorkel body to the guard panel with rubber washers (item 8), body washers (item 9) and nyloc nuts (item 10).

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



16

Align the air entry hose (item 11) for best fitment (Ensure the hose is correctly installed onto the air cleaner inlet), position the 90/110mm hose clamp correctly onto the air entry hose and tighten, position and orientate the 120/140mm hose clamp correctly onto the air entry hose and tighten.



17

Loosely install the black hose clamp (Item 14) to the base of the air ram assembly (Item 2).  
Install the air ram assembly onto the snorkel body (Item 1).  
Align the air ram assembly and tighten the black hose clamp (Item 14).



18

Install inner guard liner, mud flap, air filter element, air cleaner lid, reconnect sensor wiring and any other items that may have been removed in accordance with the factory service manual.

19

**N.B: It is the installer's responsibility to ensure that all connections are water tight.**