



SS122HF

TOYOTA HILUX (Oct 2011 onwards)
3.0L Turbo Diesel D-4D (1KD-FTV Engine)



01/02/2014

Parts List

ITEM	PART NO.	DESCRIPTION	QTY
1	320-133-400	BODY - SNORKEL (SS122HF)	1
2	000-135-800	3 1/2" AIR RAM ASSEMBLY	1
3	320-032-400	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	6
8	000-311-300	WASHER - BODY - 8mm x 30mm - S/S	6
9	000-205-300	NUT - NYLOC - 8mm x 1.25mm - S/S	6
10	320-024-200	HOSE - AIR ENTRY	1
11	000-908	CLAMP - HOSE - 70/90mm	1
12	000-910	CLAMP - HOSE - 90/110mm	1
13	000-914/B	CLAMP - HOSE - SIZE 56 (BLACK)	1
14	320-017-400	TEMPLATE - GUARD PANEL	1



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Installation Guide

Fitment to:

- Right Hand Side

Fitting Time:

- 180min

Special Tools:

- 111mm Hole Saw
- Step Drill
- 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 template (Item 14) are correct.

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

- Air Cleaner Assembly
- RHS Mud Flap
- RHS Guard Liner
- RH Guard mounted indicator (if fitted to vehicle)

2

Remove and discard

- Air intake ducting



Remove and Discard

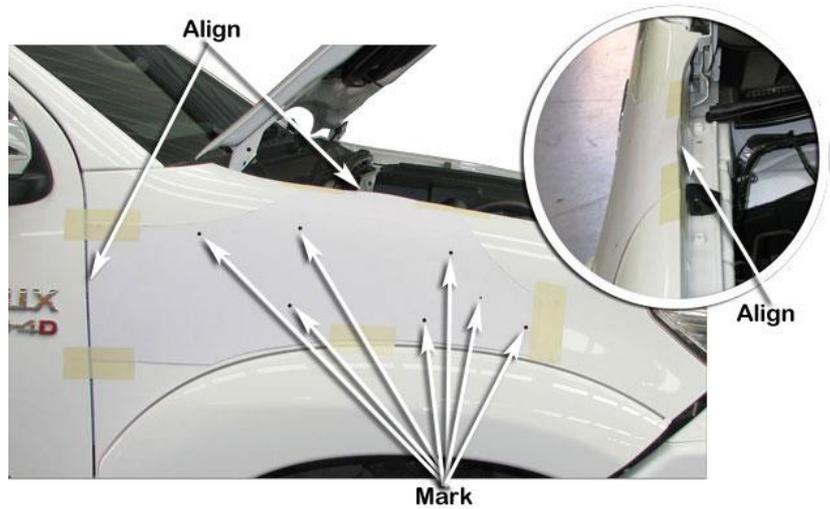
3

Align the guard panel template (Item 14) with the upper and rear edges of the RHS guard panel as shown.

Tape the template to the guard panel with masking tape.

Mark all hole positions with a felt tip pen.

Remove the template.



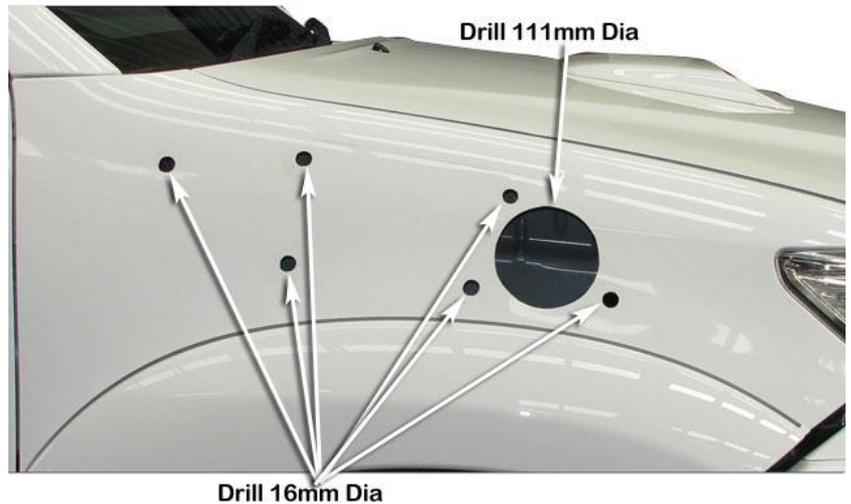
4

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

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

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

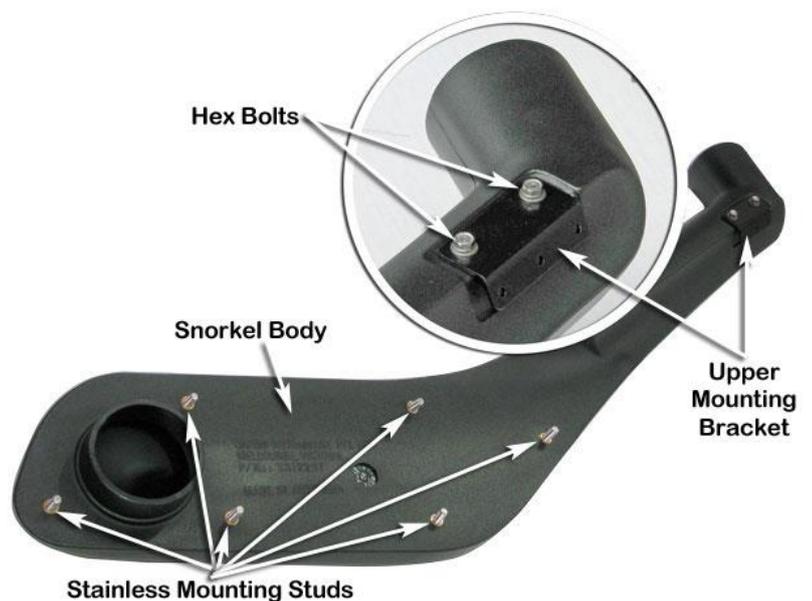
Deburr and paint all holes.



5

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 as shown.

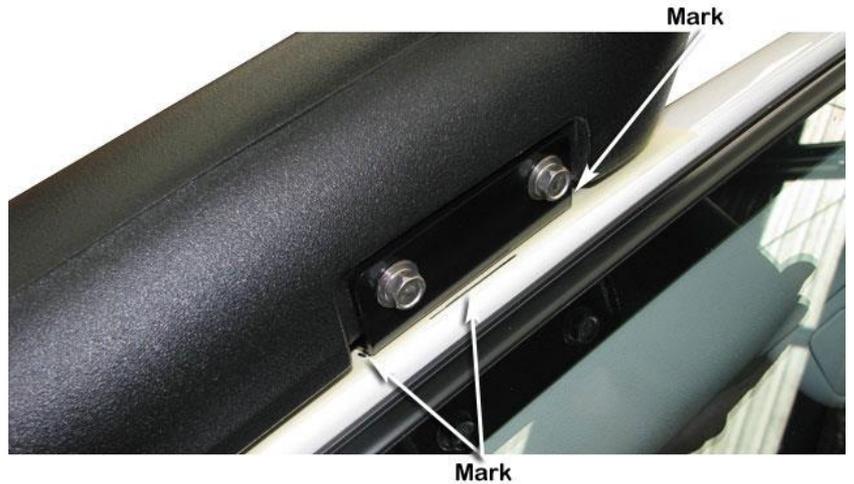


6

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

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

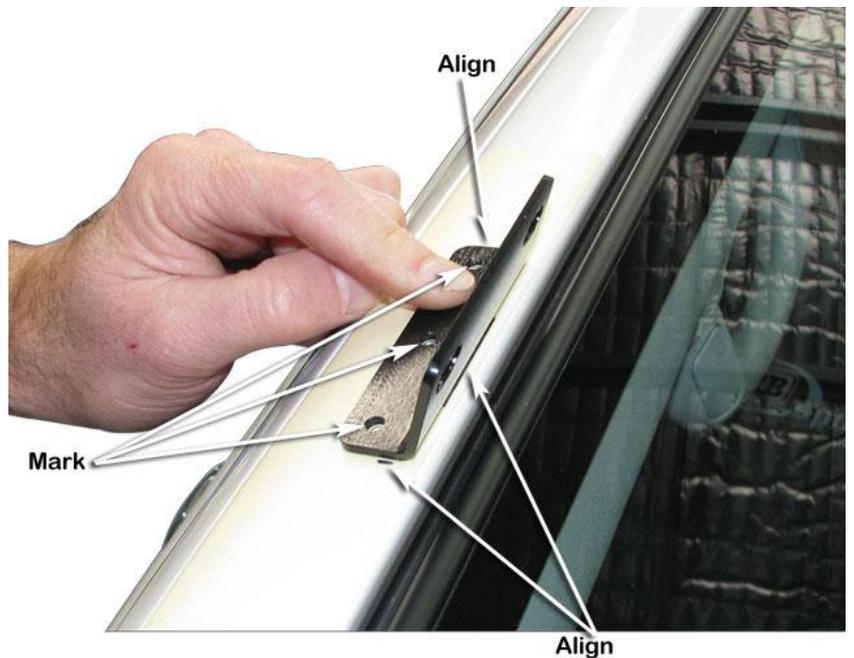
With the snorkel body correctly positioned on the vehicle, accurately mark the position of the upper mounting bracket (Item 3) onto the masking tape.



7

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

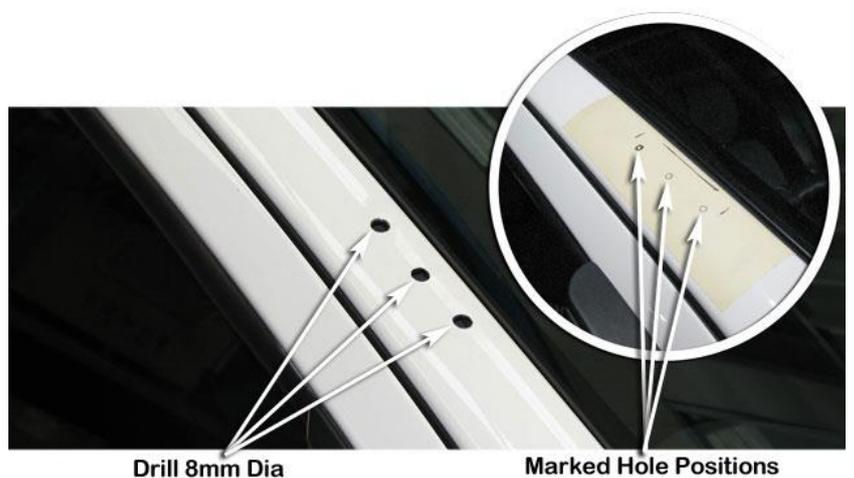
Position the upper mounting bracket (Item 3) onto the A-pillar and align the bracket with the marked bracket outline. Mark the three mounting hole positions with a felt tip pen.



8

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.

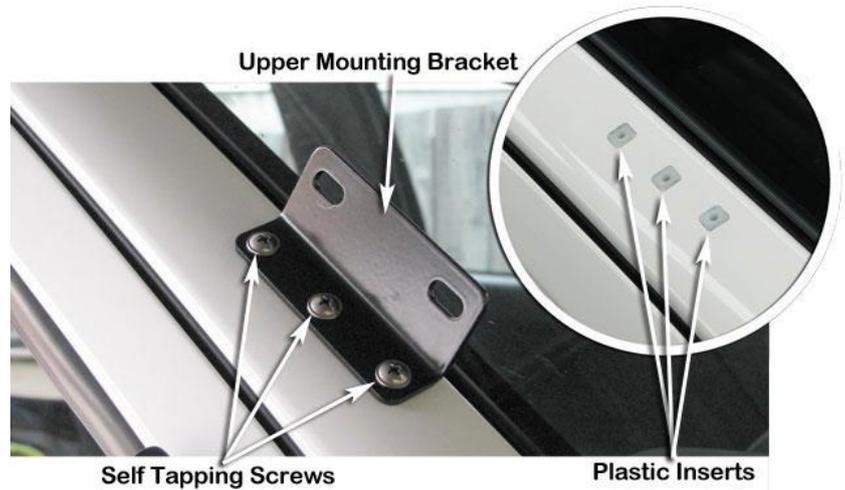
Deburr and paint holes.



9

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).



10

INSTALLER OPTION :

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

It is up to the installer to decide whether the drain valve should be sealed.



11

Remove and discard the foam seal from the air cleaner housing inlet snout.

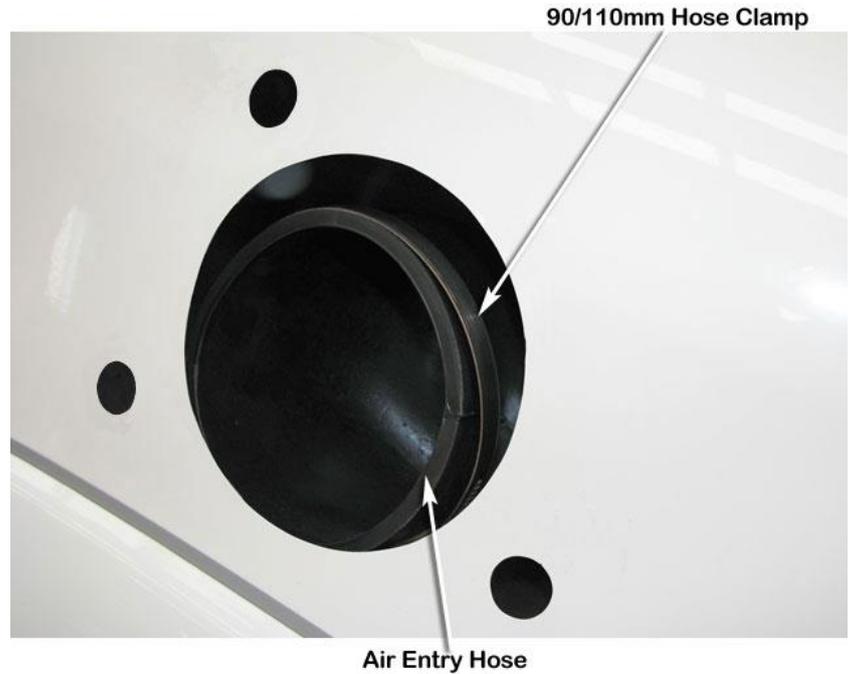
Loosely install a 70/90mm hose clamp (item 11) onto the air cleaner housing inlet snout, re-install the air cleaner housing base into position and secure with standard mounting bolts.



12

Loosely install the 90/110mm hose clamp (Item 12) onto the air entry hose (item 10).

Install the air entry hose through the hole in the inner guard panel and onto the air cleaner housing inlet snout, rotate and align the air entry hose (item 10) with the main hole in the guard panel.



13

Carefully install the snorkel body (Item 1) to the guard panel, guiding the snorkel body snout into the air entry hose (item 10), align the snorkel body to guard panel and upper mounting bracket.

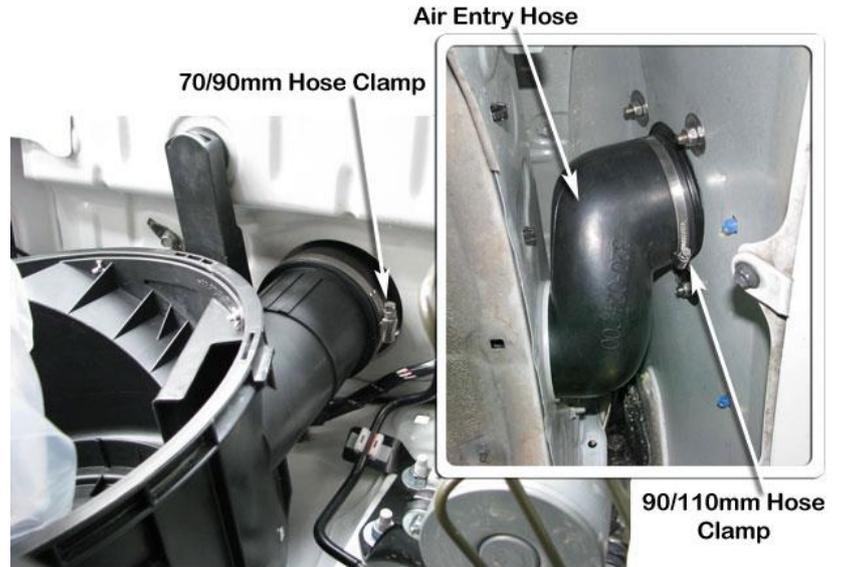
When correctly aligned, fasten the snorkel body to the guard panel with body washers (Item 8) and nyloc nuts (Item 9).

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



14

Align the air entry hose for best fitment (*Ensure the air entry hose is installed hard up against the shoulder of the snorkel body outlet*), correctly position the 70/90mm and 90/110mm hose clamps at either end of the air entry hose and tighten the hose clamps.



15

Install the black hose clamp (Item 13) loosely over the base of the air ram assembly (Item 2).

Install the air ram assembly onto the snorkel body.

Align the air ram assembly and tighten the black hose clamp (Item 13).



16

Install the guard mounted indicator (if fitted to vehicle), guard liner, mud flap, air cleaner element, air cleaner lid, reconnect sensor wiring and any other items that may have been removed during the snorkel installation process.

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