

SS18HFE

SAFARI V-SPEC SNORKEL
Nissan GU Patrol Series 4 onwards
4.8L 6cyl Petrol (TB48DE Engine)



01/10/2017

Parts List

ITEM	PART NO.	DESCRIPTION	QTY
1	485-133-200	BODY - SNORKEL (SS17HF)	1
2	000-135-800	3 ½" AIR RAM ASSEMBLY	1
3	485-032-000	BRACKET - UPPER MOUNTING	1
4	000-002-100	BOLT - HEX - 6mm x 1.0 x 14mm (SEMS) - S/S	3
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	3
8	000-311-300	WASHER - BODY - 8mm x 32mm - S/S	3
9	000-205-300	NUT - NYLOC - 8mm x 1.25mm - S/S	3
10	485-024-100	HOSE - SNORKEL OUTLET	1
11	485-025-000	JOINER - 90mm OD x 60mm Long	1
12	485-024-200	HOSE - AIR CLEANER ENTRY	1
13	485-025-200	JOINER - 90mm OD x 48mm Long	1
14	485-024-500	HOSE - AIR CLEANER INLET	1
15	000-951-500	SCREW - S/T - 4.8mm x 16mm (Silver)	1
16	000-909	CLAMP - HOSE 80/100mm - S/S	5
17	000-910	CLAMP - HOSE 90/110mm - S/S	1
18	000-914/B	CLAMP - HOSE - No. 56 (BLACK)	1
19	485-017-200	TEMPLATE - GUARD PANEL	1

Installation Guide

Fitment to:

- Left Hand Side

Fitting Time:

- 180min

Special Tools:

- 95mm & 108mm Hole saw
- Step drill
- 3.5mm Drill Bit
- Files
- Masking tape
- Loctite 243 (Threadlocker)
- Touch-up paint

Prior to commencing the installation, it is the installer's responsibility to verify that all components and particularly the template (Item 19) are correct.

1

Remove the following in accordance with the factory service manual.

- LHS Mudflap
- LHS Guard Liner
- Guard Mounted Indicator (if fitted)
- Charcoal Canister
- Coolant Overflow Bottle
- Air Cleaner Assembly
- Radio Antenna (if fitted)

2

Remove and discard the standard air cleaner ducting.

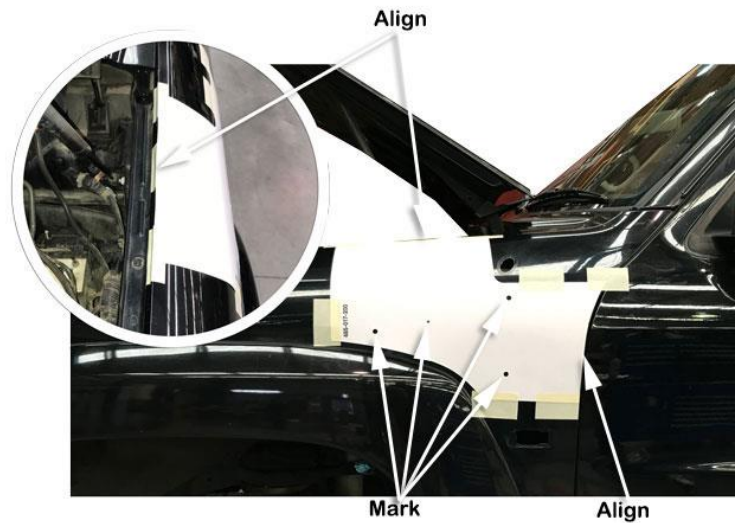


3

Align the guard panel template (item 19) to the upper and rear edges of the LHS guard panel. Tape the template to the guard panel with masking tape.

Mark all hole positions with a felt tip pen.

Remove the template.



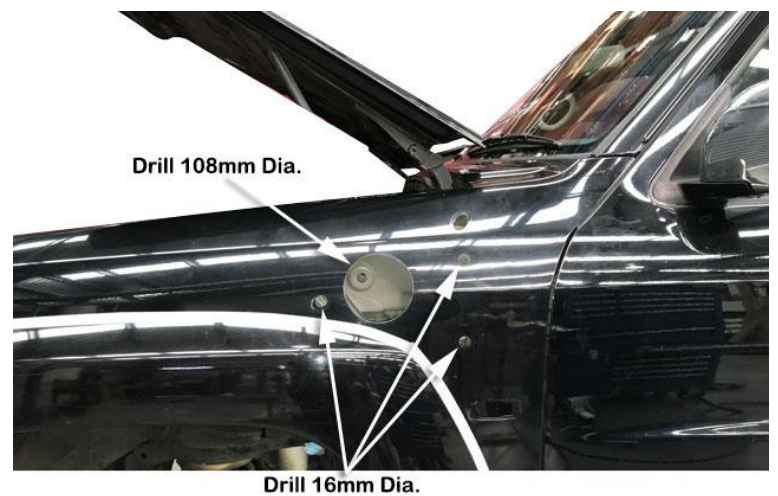
4

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

Use a 108mm diameter hole saw to drill the snorkel body outlet hole position in the guard panel.

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

Deburr and paint holes to prevent rust.



5

Use the 95mm hole saw to drill the hole through the internal panel, using the standard air intake hole in the inner guard as a guide for the 95mm hole saw whilst drilling.

Hint: Place a piece of timber up into the inner guard to prevent the holesaw from damaging the guard panel whilst drilling.

Deburr and paint hole to prevent rust.



6

The top coolant overflow bottle mounting hole must be repositioned, Measure and mark the new mounting hole position approximately 12mm forward of the standard mounting hole as shown.

Drill a pilot hole at the marked position.

Using a 3.5mm drill bit, drill the mounting hole.

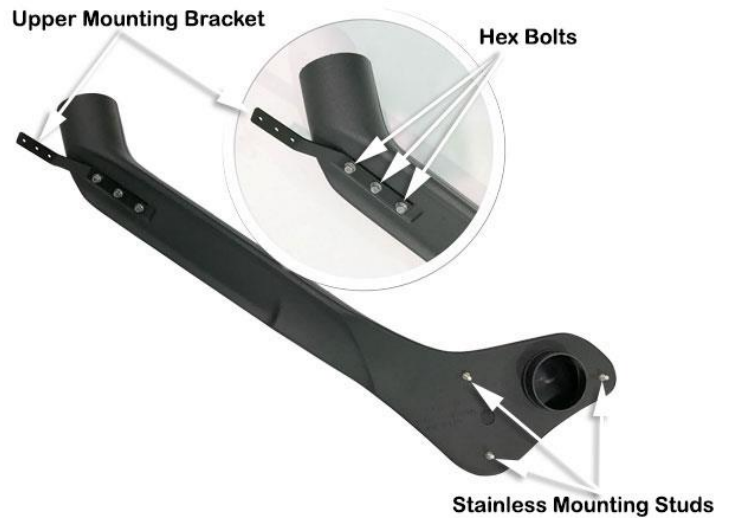
Deburr and paint hole.



7

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.

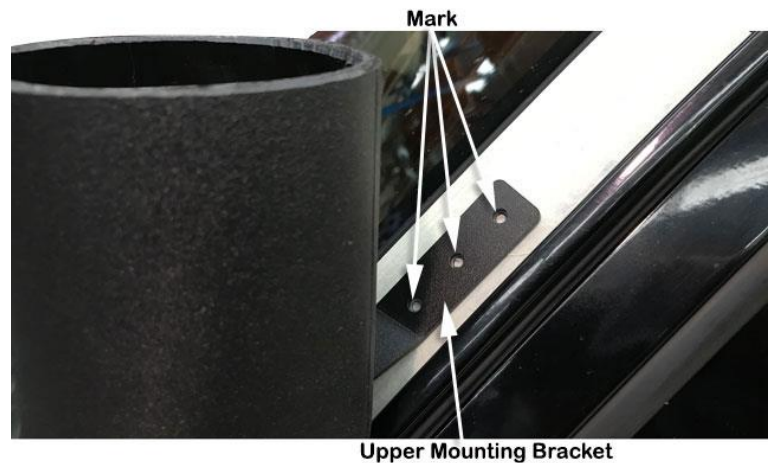


8

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 three upper mounting bracket hole positions onto the masking tape as shown.



9

Remove the snorkel body (item 1) from the vehicle.

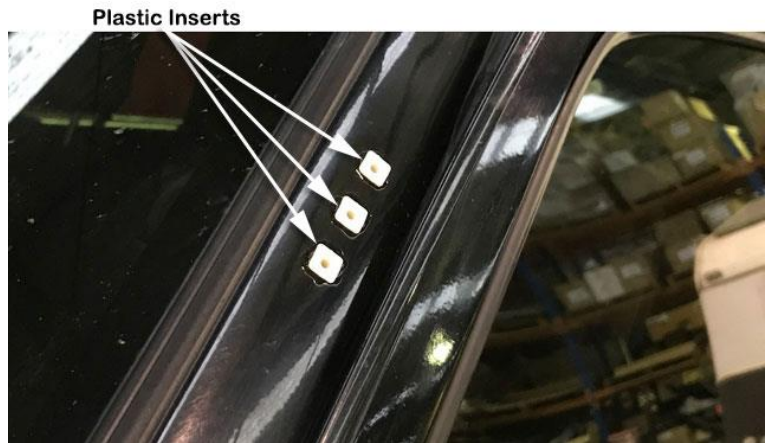
Drill a pilot hole at each of the three marked hole positions. Drill each hole position to 8mm diameter with a step drill or 8mm drill bit.

Deburr and paint holes to prevent rust.



10

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



11

Install the air cleaner entry hose (item 12) through the hole in the internal panel and the air intake hole in the inner guard panel.

Hint: Squash the end of the hose inwards and tape as shown.

Apply CRC or similar lubricant to the external surface of the hose, install the hose through the holes in the inner guard panel as shown.



12

Using a fen tip pen mark a line around the joiner (Item 11) 30mm from the end.

Install the joiner into the air cleaner entry hose (Item 12) and align the 30mm mark to the end of the hose.

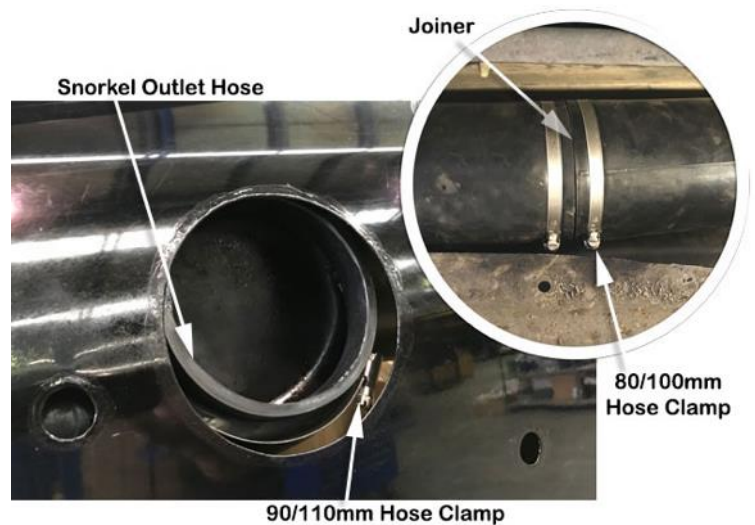
Install a 80/100mm hose clamp (Item 16) onto the hose and tighten the clamp.

Note: the orientation of the hose clamp



13

Loosely install the 80/100mm hose clamp (item 13) over the snorkel outlet hose (item 10), install the hose onto the joiner, loosely install a 90/110mm hose clamp to the snorkel body outlet end of the hose and align the hose with the hole in the guard panel.



14

Apply CRC or similar lubricant to the inside of the snorkel outlet hose (item 10) and carefully install the snorkel body (item 1) to the guard panel guiding the snorkel body outlet snout into the snorkel outlet hose, align the snorkel body to the guard panel and the upper mounting bracket to the a-pillar mounting position.

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

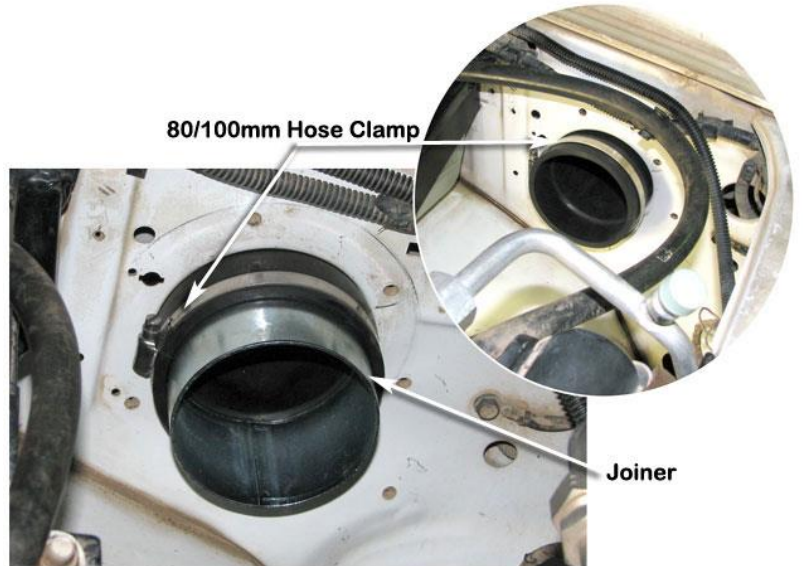
Fasten the upper mounting bracket to the A-pillar with self-taper screws (item 5).



15

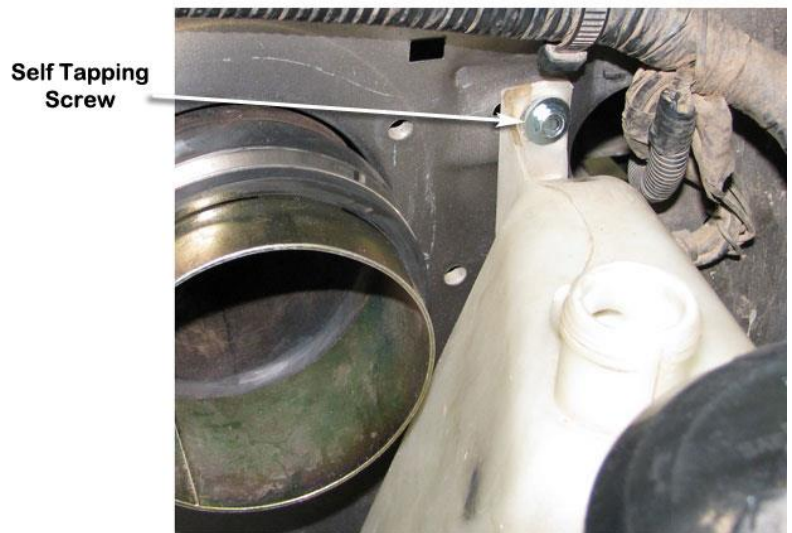
Loosely install a 80/100mm hose clamp (item 16) over the air cleaner entry hose (item 12).

Install the joiner (item 13) into the air cleaner entry hose (with *approximately 22mm of the joiner protruding out of the hose*), tighten the 80/100mm hose clamp.



16

Install the radiator overflow bottle and fasten using self-taping screw (item 15) in the relocated top mounting hole position and the standard bolt in the lower mounting position, re-install the charcoal canister into the canister mounting bracket and reconnect hoses.



17

INSTALLER OPTION:

The air cleaner housing contains a drain outlet. The drain outlet can permit water to enter the air intake.

Safari advises that the drain outlet should be sealed to ensure a watertight installation.



Install the air cleaner assembly and fasten with standard mounting hardware, loosely install a 80/100mm hose clamp (item 16) at either end of the air cleaner inlet hose (item 14).

Install the air cleaner inlet hose onto the joiner (item 13) and air cleaner inlet.

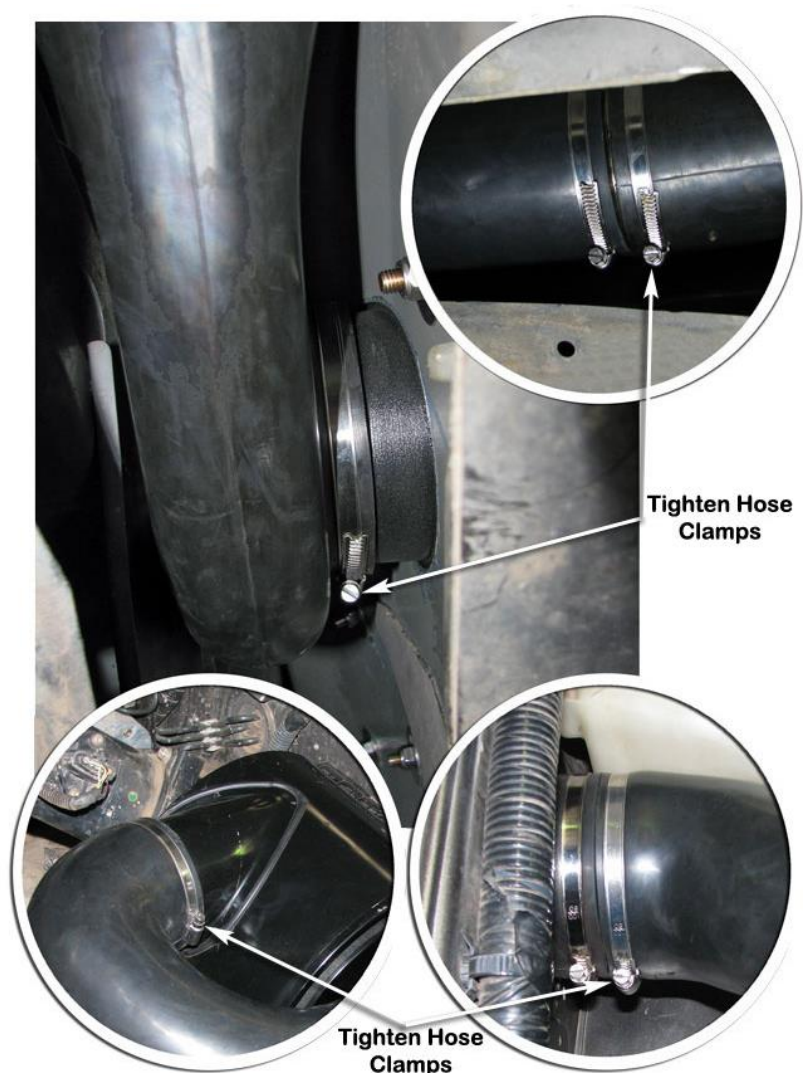
80/100mm Hose Clamps



Air Cleaner Inlet Hose

Align the three hoses (items 10, 12 & 14) for best fitment, ensure that the snorkel outlet hose (item 10) is installed hard up against the shoulder of the snorkel body outlet snout and tighten the 90/110mm hose clamp (item 17).

Tighten the 80/100mm hose clamps at the two joiners and the air cleaner inlet.



Tighten Hose Clamps

Tighten Hose Clamps

20

Loosely install the black hose clamp (item 18) 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 18).



21

Re-install the radio antenna, guard mounted indicator, guard liner, mud flap, reconnect sensor wiring and any other components removed during the installation process.

22

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