



4X4 ENGINEERING

SS191HF

SAFARI V-SPEC SNORKEL

To Suit: Toyota Land Cruiser Prado 250 Series
GDJ250 2.8L D-4D Diesel (1GD-FTV Engine)
GDJ251 2.8L D-4D Diesel (48V) (1GD-FTV Engine)
TJA250 2.4L Turbo Petrol (T24A-FTS Engine)
TJH251 2.4L Turbo Petrol (HEV) (T24A-FTS Engine)
Built: Jan 2024 onwards



29/10/2025

Parts List

ITEM	PART NO.	DESCRIPTION	QTY
1	366-133-000	BODY - SNORKEL (SS191HF)	1
2	000-135-800	3 ½" AIR RAM ASSEMBLY	1
3	366-032-100	BRACKET - UPPER MOUNTING	1
4	366-016-000	GASKET - UPPER MOUNTING BRACKET	1
5	000-002-100	BOLT - HEX - 6mm x 1.0 x 14mm (SEMS)	2
6	000-951-025	SCREW - S/T - 4.2mm x 25mm - BLACK	2
7	000-960	INSERT - PLASTIC	2
8	000-110	STUD - 8mm x 1.25 x 25mm - S/S	6
9	000-311-300	WASHER - BODY - 8mm x 30mm - S/S	6
10	000-205-300	NUT - NYLOC - 8mm x 1.25mm - S/S	6
11	366-024-000	HOSE - AIR ENTRY - SNORKEL TO HOSE	1
12	366-024-050	HOSE - AIR ENTRY - HOSE TO AIRBOX	1

13	366-025-100	JOINER - 80mm I.D. X 40mm - S/S	1
14	000-909	CLAMP - HOSE - 80/100mm - S/S	2
15	000-1911	CLAMP - HOSE - 100/120mm - S/S	1
16	000-914/B	CLAMP - HOSE - SIZE 56 (BLACK)	1
17	366-217-000	TEMPLATE - AIR CLEANER INLET	1
18	366-025-000	PLATE - HOSE SUPPORT - LONG	2
19	366-025-025	PLATE - HOSE SUPPORT - SHORT	1
20	000-958-175	POP RIVET - 4.0 x 17mm	10
21	000-300-350	WASHER - BODY - 4.0mm x 12mm - S/S	12
22	366-017-000	TEMPLATE - GUARD PANEL	1



Hybrid & Plug-in Hybrid Vehicle's (HEV & PHEV) incorporate high-voltage cabling and components.

These high-voltage systems & cabling when cut or damaged pose serious safety hazards, resulting in electric shock, fire, or fatal injury.

Due to these inherent risks, Safari strongly advises against the installation of snorkels to these vehicles unless using the approved instructions for the specific product/vehicle and sufficient workshop safety practices are adhered to.

For further information or clarification, please contact Safari 4x4 directly.



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Installation Guide

Fitment to:

- Right Hand Side

Fitting Time:

- 120min

Special Tools:

- Body Saw (reciprocating)
- Pop Rivet Gun
- Step Drill and Metric Drill Bits
- Sikaflex 227 Adhesive Sealant
- Loctite 243 (thread lock)
- Masking Tape
- Touch-up paint
- Files

Prior to commencing the installation, it is the installer's responsibility to verify that all components and particularly the template (Item 22) are correct.



It is the installers responsibility prior to installing Safari Accessories to any Hybrid or Plug-in Hybrid Vehicle (HEV & PHEV) to ensure electrical safety is maintained and no High-Voltage looms or cables will be damaged during cutting or modification of the vehicle components.

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

- Air Cleaner Assembly
- RHS Mud Flap
- RHS Guard Liner
- Foam Deflector (Retain)

2

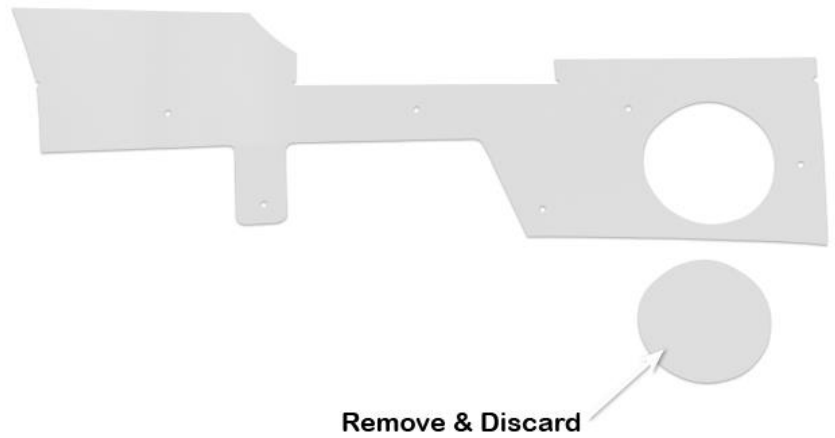
Remove and discard the air intake duct from inside the wheel arch.

Remove and discard the air intake adaptor from the inner guard.

Remove & Discard



Remove and discard the perforated cut-out section from the guard panel template (Item 22) as shown.

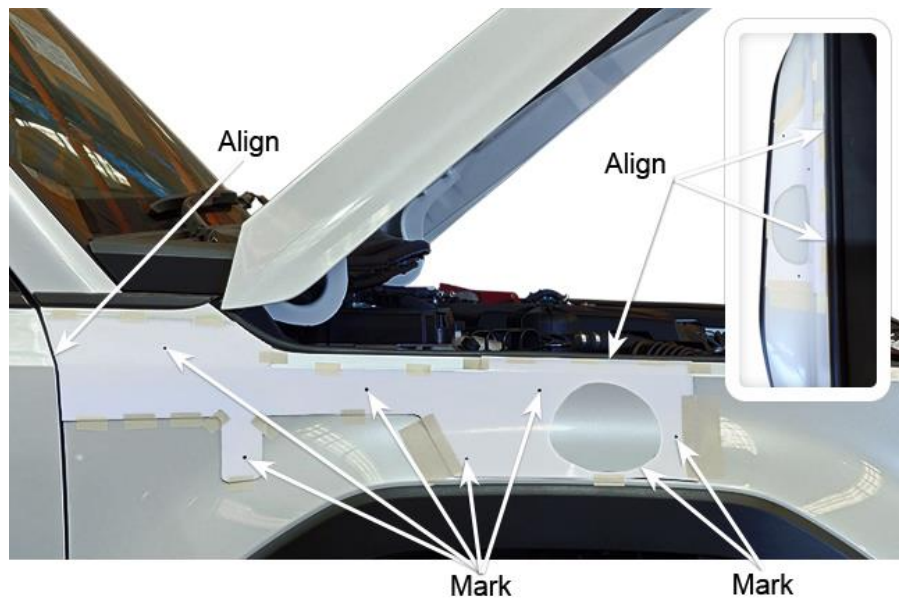


Align the guard panel template (Item 22) to the upper and rear edges of the right-hand guard panel, as shown.

Tape the template to the guard panel with masking tape, ensuring the template follows the profile of the guard panel.

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

Remove the template.





Prior to cutting the RH Guard Panel ensure there are no High-Voltage (orange) looms or cables in the surrounding inner guard area at risk of damage.

5

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

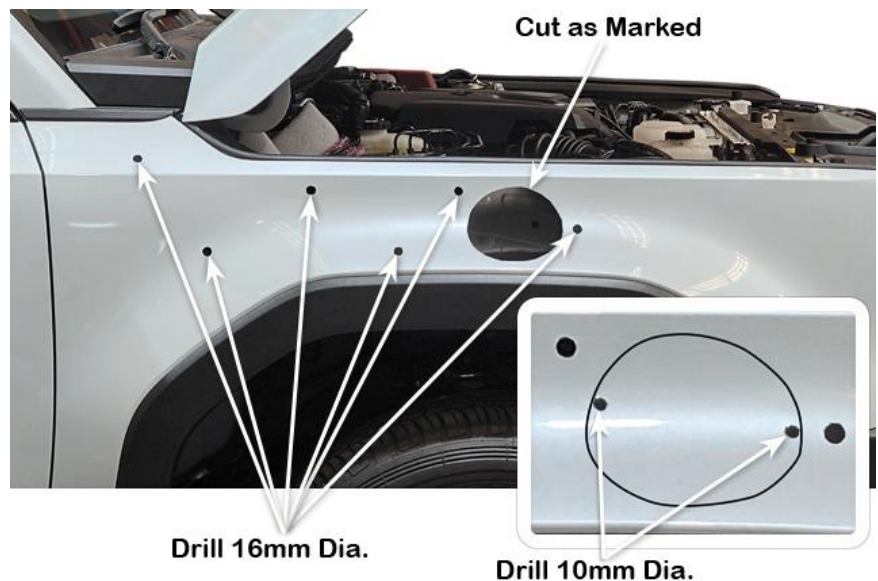
Use a step drill to drill the six mounting holes to 16mm diameter.

Drill two or three, 10mm diameter holes in the cut-out section for a start/stop point for the body saw.

Using the body saw cut the main hole in the guard panel as marked from the template cut-out in step 4 (*cutting on the outside of the marked line*).

Deburr and paint holes.

Hint: Prior to any cutting or drilling, place a strip of masking tape along the wheel arch moulding and guard panel to prevent metal filings being trapped between the moulding and guard panel.



NEW ZEALAND INSTALLATIONS ONLY :

Safari have developed 2 methods of Snorkel A pillar attachment, for the conventional method please proceed with the current document alternatively please see the link below for further instructions.

www.safari4x4.co.nz/apillarmounting

Apply Loctite 243 to each of the stainless-steel mounting studs (Item 8) and install the studs finger tight into the snorkel body (Item 1) mounting inserts as shown.

Lightly secure the upper mounting bracket (Item 3) to the snorkel body with M6 hex bolts (Item 5).

Note: Tighten the M6 bolts enough to allow adjustment in the upper mounting bracket slots.

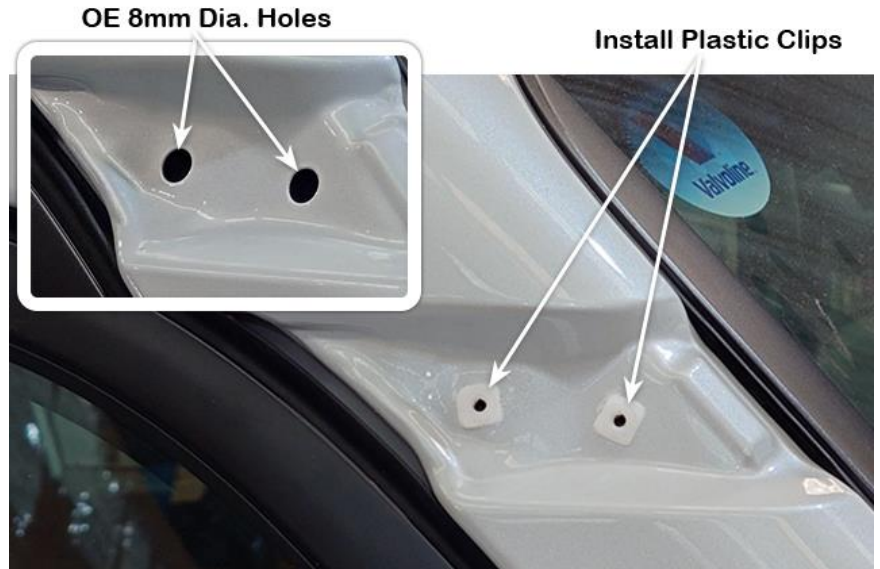


Remove and discard the plastic trim piece from the right-hand side A-pillar.

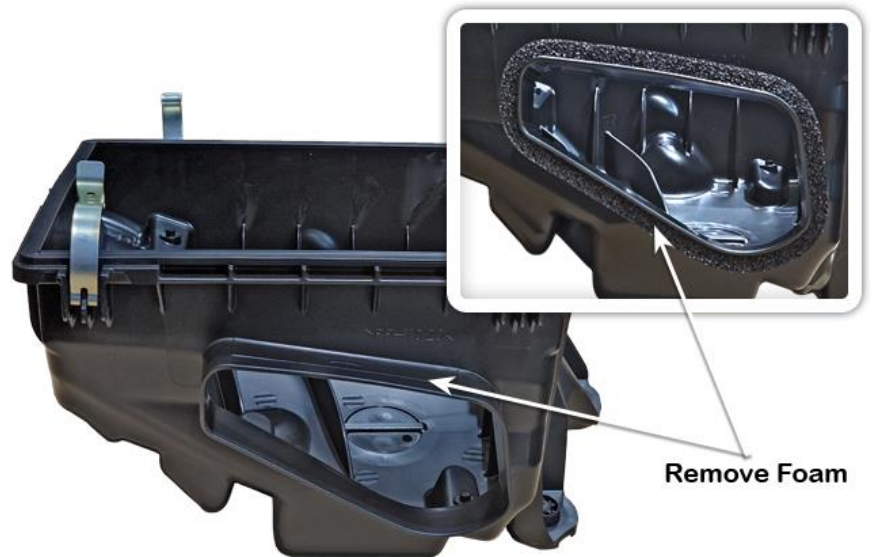
Note: The trim is held in by two plastic trim clips and a small adhesive patch located next the windscreen edge.



Install a plastic insert (Item 7) into each of the two OE 8mm diameter holes in the A-pillar.



Remove and discard the foam strip from the end of the air cleaner base inlet snout.



TJA250 & TJH251 Models Only:

Safari recommends retaining the noise suppressing pad inside the air cleaner base and sealing the base after air entry hose modifications are completed.

It is optional to remove and discard the air intake noise suppressing pad and five retaining clips.

Petrol Models Only



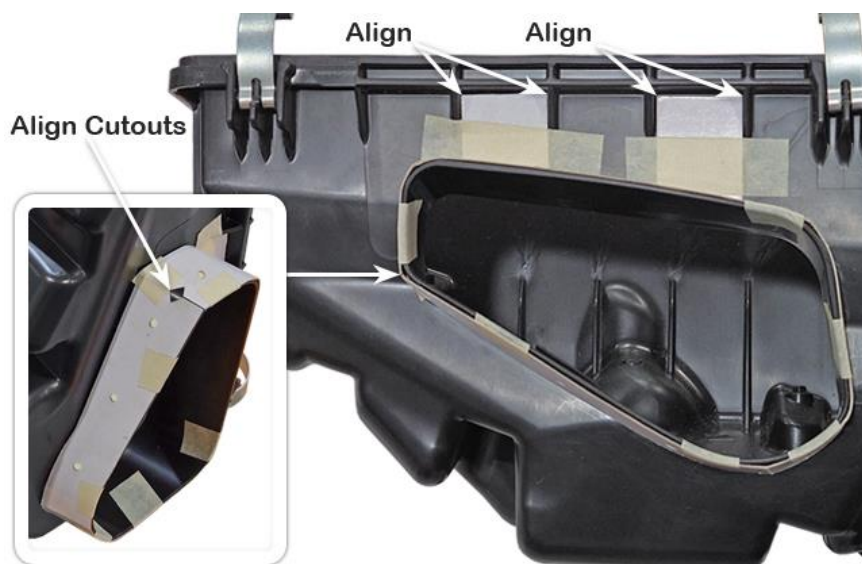
11

Install air cleaner inlet template (Item 17) to the air cleaner base inlet.

Align tabs with the upper support ribs, wrapping the template around the inlet and aligning both cut-outs in the template, as shown.

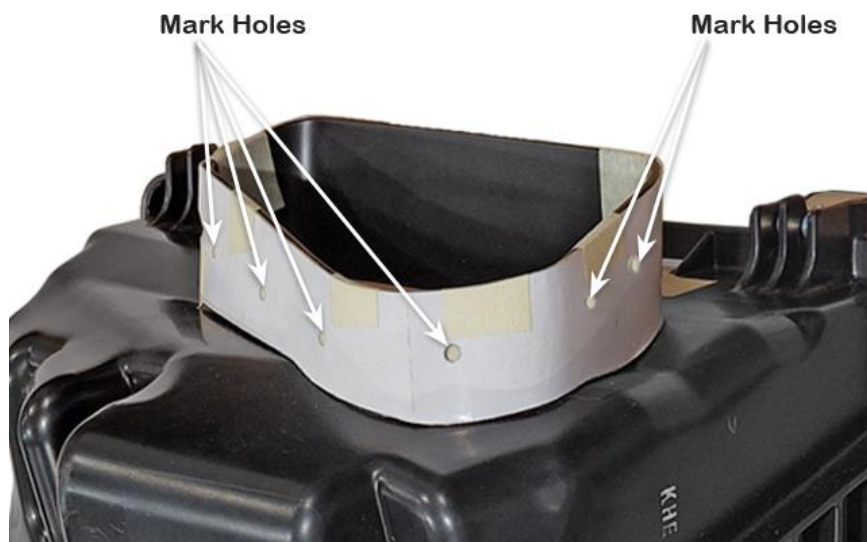
Ensure the front edge of the template sits flush with the front edge of air cleaner base inlet.

Tape into position with masking tape.



12

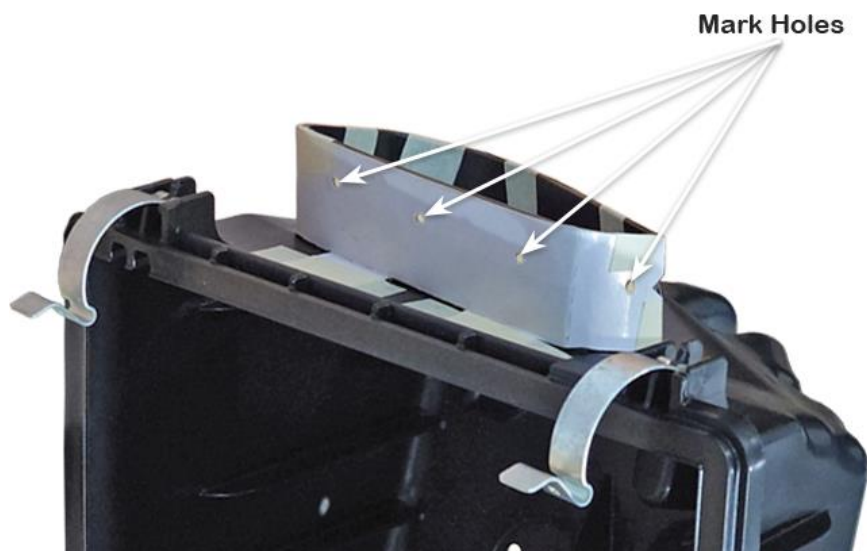
Mark the six hole positions on the underside and front side of the air cleaner inlet.



13

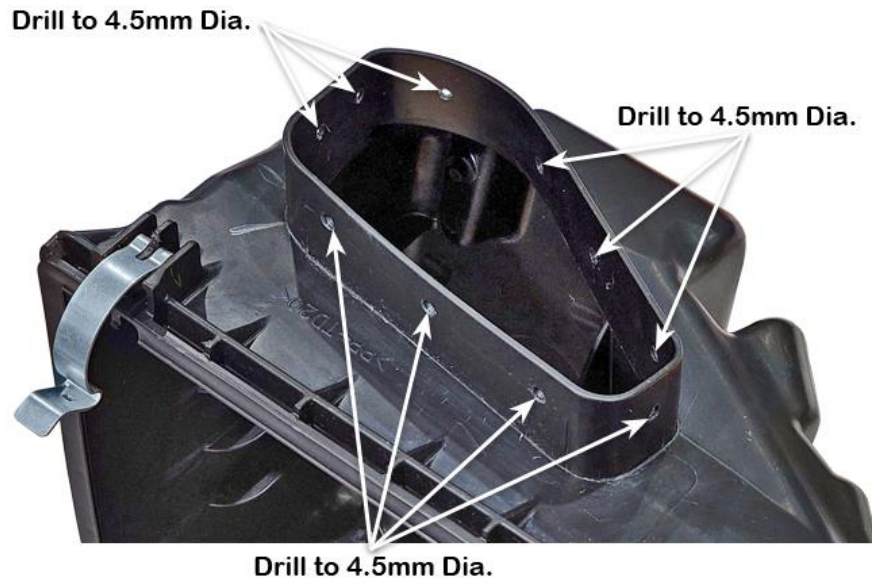
Mark the four hole positions on the top side and rear side of the air cleaner inlet.

Remove the template.

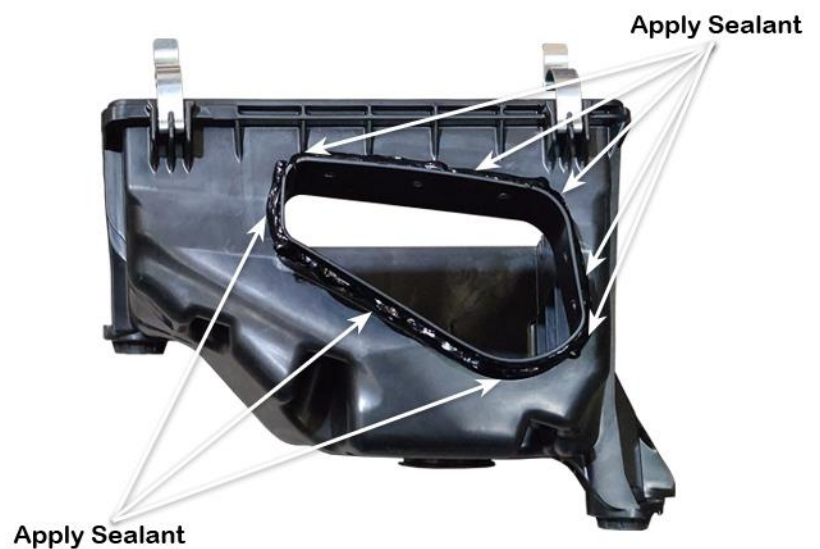


Drill all ten marked hole positions to 4.5mm diameter.

Clean and deburr holes.



Apply a liberal amount of Sikaflex 227 adhesive sealant to the exterior surface of the air inlet.



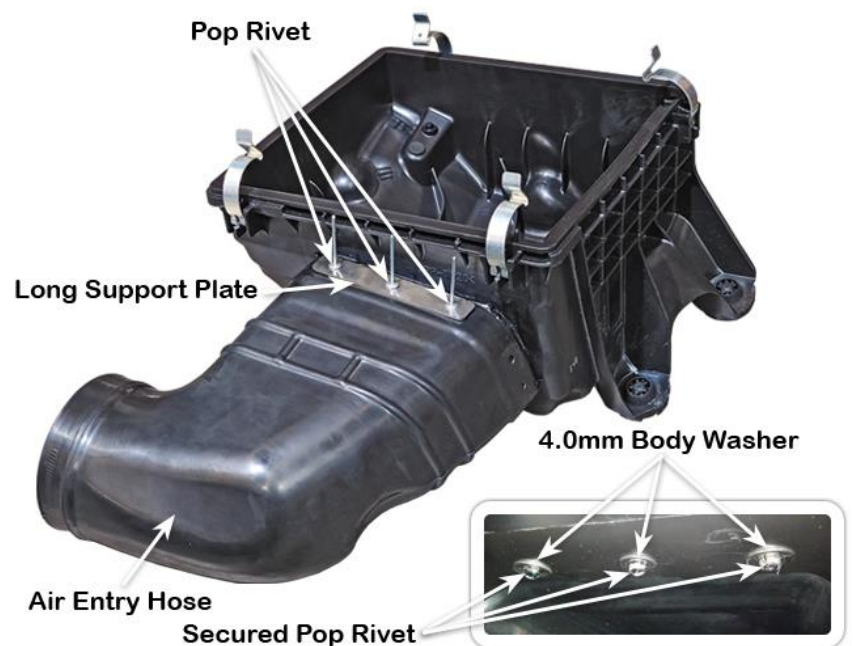
Install the air entry hose (Item 12) to the air cleaner base inlet.

Install one long hose support plate (Item 18) to the top side of air entry hose (Item 12) aligning to the three hole positions.

Install three 4.0x17mm pop rivets (Item 20) through the support plate (Item 18), air entry hose and into the air cleaner base inlet.

Install a 4mm body washer (Item 21) to each pop rivet on the inside of the air cleaner base inlet.

Using a rivet gun, secure pop rivets.

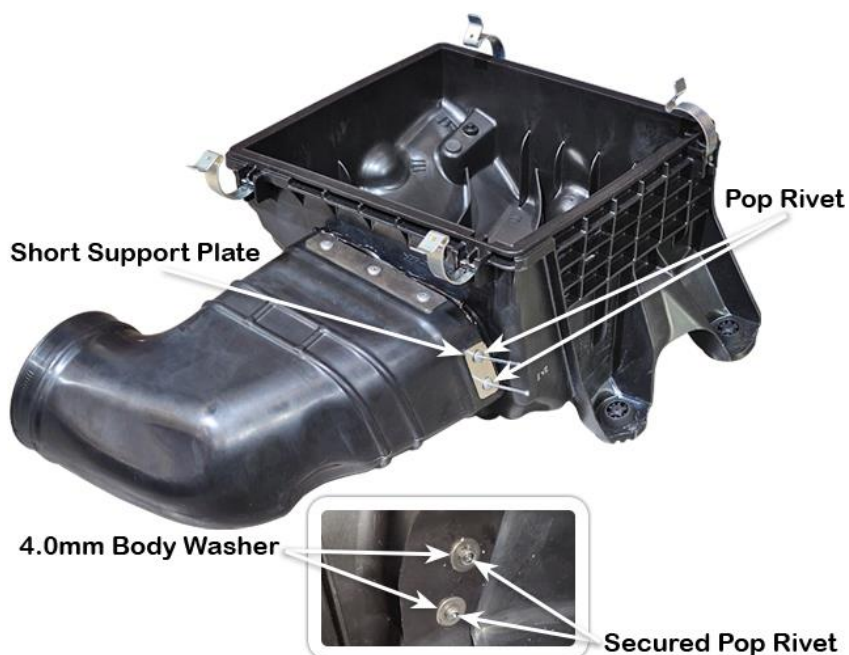


Install the short support plate (Item 19) to the front side of the air entry hose (Item 12) aligning to the two hole positions.

Install two 4.0x17mm pop rivets (Item 20) through the support plate (Item 19), air entry hose and into the air cleaner base inlet.

Install a 4mm body washer (Item 21) to both pop rivets on the inside of the air cleaner base inlet.

Using a rivet gun, secure pop rivets.



Install one 4mm body washer (Item 21) to the front underside of the air entry hose (Item 12) aligning to the hole position.

Install one 4.0x17mm pop rivet (Item 20) through the 4mm body washer, air entry hose and into the air cleaner base inlet.

Install a 4mm body washer (Item 21) to the pop rivet on the inside of the air cleaner base inlet.

Using a rivet gun, secure the pop rivet.



Install one long hose support plate (Item 18) to the underside of air entry hose (Item 12) aligning to the three hole positions.

Install three 4.0x17mm pop rivets (Item 20) through the support plate (Item 18), air entry hose and into the air cleaner base inlet.

Install a 4mm body washer (Item 21) to each pop rivet on the inside of the air cleaner base inlet.

Using a rivet gun, secure pop rivets.



Install one 4mm body washer (Item 21) to the rear side of the air entry hose (Item 12) aligning to the hole position.

Install one 4.0x17mm pop rivet (Item 20) through the 4mm body washer, air entry hose and into the air cleaner base inlet.

Install a 4mm body washer (Item 21) to the pop rivet on the inside of the air cleaner base inlet.

Using a rivet gun, secure pop rivet.

Clean up any excess adhesive sealant to ensure a neat finish.



INSTALLER OPTION:

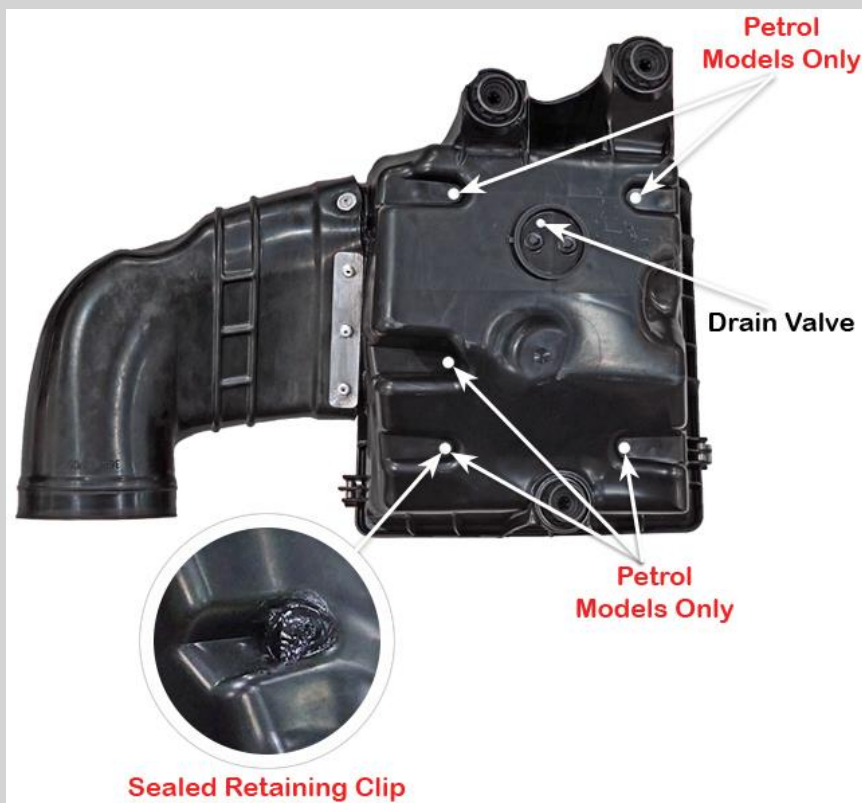
The air cleaner base contains a drain valve as shown.

The drain valve can permit water to enter the air intake.

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

Note: TJA250 and TJH251 petrol variant air cleaner bases have holes used to secure a noise suppressing pad. In the interest of creating a watertight installation, Safari advises that these holes be sealed.

If the noise suppressing pad is retained, apply a liberal amount of sealant over and around the retaining clips on the exterior of the air cleaner base.



Squash the end of the air entry hose (Item 12) inwards and tape to hold in position.

N.B: *it is critical the hose is squashed and taped the same way shown in the photo, for installation purposes.*

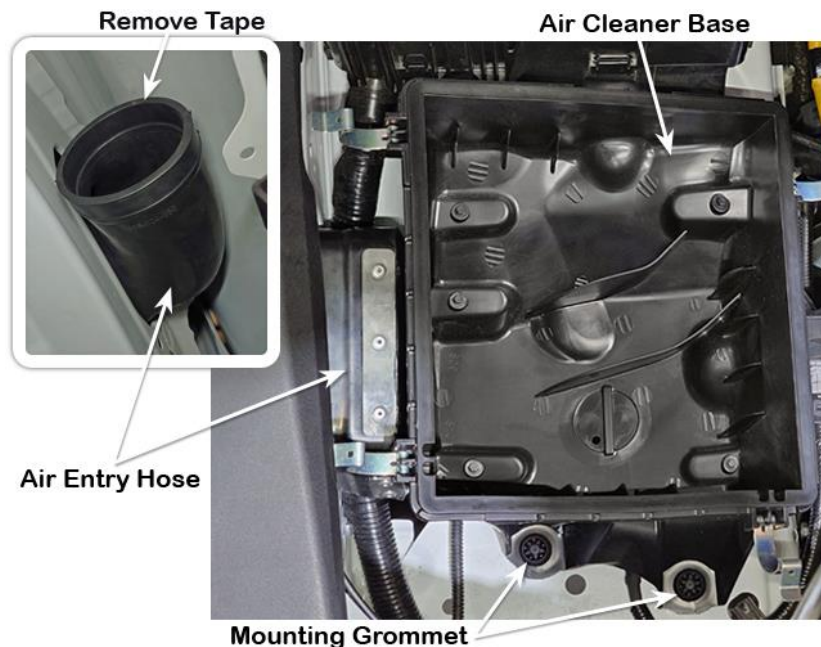


23

Carefully install the air cleaner assembly into its original position, guiding the air entry hose (Item 12) where required through the two inner guard panel holes.

Mount the air cleaner base onto its locating pins, ensuring the mounting grommets are properly seated on the locating pins.

Remove the tape from the end of the air entry hose.



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Loosely install an 80/100mm hose clamp (Item 14) over the end of the air entry hose (Item 12) and install the hose joiner (Item 13) into the inlet of the air entry hose. Ensure the joiner is hard up against the internal shoulder of the air entry hose.

Tighten the hose clamp.

N.B: hose clamp orientation.



25

Loosely install an 80/100mm hose clamp (Item 14) over the outlet end of the snorkel outlet hose (Item 11).

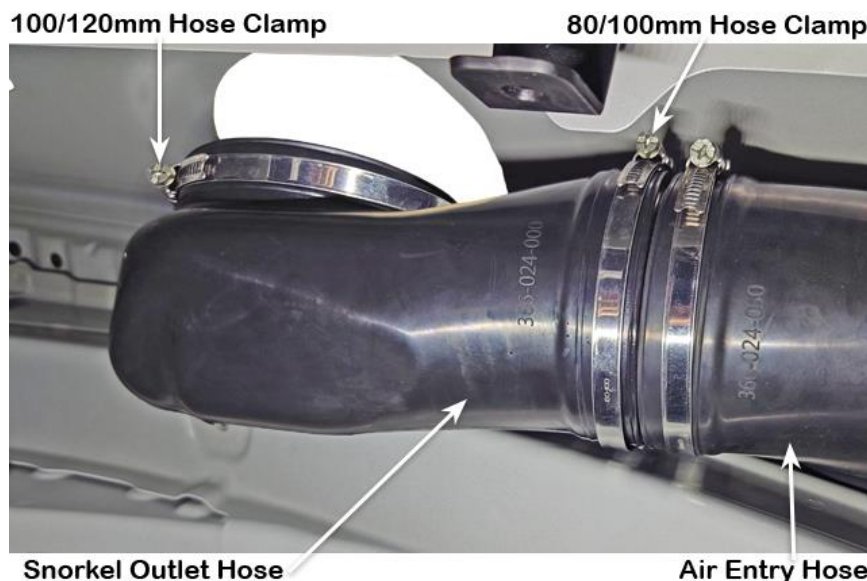
Install the snorkel outlet hose (Item 11) onto the hose joiner (Item 13).

Approximately align inlet of the snorkel outlet hose (Item 11) with the guard panel hole.

Loosely install the 100/120mm hose clamp (Item 15) over the inlet end of the snorkel outlet hose (Item 11).

Leave hose clamps loose.

N.B: hose clamp orientation.



Carefully install the snorkel body (Item 1) to the guard panel, guiding the snorkel body outlet snout into the inlet of the snorkel outlet hose (Item 11).

Lightly secure the snorkel body to the guard panel with body washers (Item 9) and nyloc nuts (Item 10).

Hint: Use tape to hold the body washer in place for front snorkel mounting stud.

Do not fully tighten M8 nuts.



Install upper mounting bracket gasket (Item 4) between the A-Pillar and upper mounting bracket (Item 3), aligning the holes of the upper mounting bracket gasket and upper mounting bracket with the plastic inserts (Item 7).

Lightly secure with the two 4.2mm x 25mm screws (Item 6).

Do not fully tighten S/T screws.



Best position the snorkel body to the guard panel and the A-pillar.

Once correctly positioned, fasten the six nyloc nuts (Item 10), two M6 hex bolts (Item 5) and two 4.2mm x 25mm screws (Item 6).



Align the snorkel outlet hose for best fitment (*ensure the snorkel outlet hose is installed evenly, up to the shoulder on the snorkel outlet*).

Correctly position the 100/120mm hose clamp (Item 15) on the inlet of the snorkel outlet hose and tighten.

Correctly position the 80/100mm hose clamp (Item 14) at the outlet end of the snorkel outlet hose and tighten.



Loosely install the black hose clamp (Item 16) 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 16).



Install the foam deflector, 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.

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