

SAFARI ARMAX SNORKEL To Suit: Ford Everest 1 (All Models inc's 2019 Facelift) 3.2L TDCi Diesel (P5AT Engine) & 2.0L Bi-Turbo (YN2S Engine) Ford Ranger PX2 MK3 (2019 Facelift, All Models) 2.0L Bi-Turbo (YN2S Engine)

<image>

Parts List

ITEM	PART NO.	DESCRIPTION	QTY
1	680-133-600	BODY - SNORKEL (SS982HP)	1
2	000-135-960	4" AIR RAM ASSEMBLY	1
3	680-032-600	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	5
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	680-024-700	HOSE - AIR ENTRY	1
11	680-025-700	PLATE - HOSE SUPPORT - (Main) - S/S	1
12	680-025-725	PLATE - HOSE SUPPORT - (Front) - S/S	1
13	000-093-400	BOLT - B/H 4.0mm x 0.7 x 16mm - S/S	4
14	000-094-300	BOLT - B/H 4.0mm x 0.7 x 20mm - S/S	2
15	000-095-300	BOLT - B/H 4.0mm x 0.7 x 25mm - S/S	5

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16	000-300-350	WASHER - BODY - 4.0mm x 12mm S/S	11
17	000-223-300	NUT - NYLOC - 4.0mm x 0.7mm - S/S	11
18	000-1911	CLAMP - HOSE - 100/120mm - S/S	1
19	680-959-000	PLUG - AIR INLET BLANK-OFF	1
20	680-967-600	PLATE - INNER GUARD SUPPORT - S/S	1
21	000-1020-300	BOLT - B/H CAP SCREW 5.0mm x 0.8 x 12mm - S/S	10
22	000-320-350	WASHER - BODY 5.0mm x 15mm - S/S	10
23	000-221-300	NUT - NYLOC 5.0mm x 0.8mm - S/S	10
24	000-038-300	BOLT - B/H CAP SCREW 6.0mm x 1.0 x 12mm - S/S	1
25	000-353	WASHER - BODY 6.0mm x 18mm - S/S	1
26	000-204	NUT - NYLOC 6.0mm x 1.0mm - S/S	1
27	000-1931/B	CLAMP - HOSE - SIZE 64 (BLACK)	1
28	680-217-700	TEMPLATE - AIR CLEANER HOUSING (Upper Side)	1
29	680-217-725	TEMPLATE - AIR CLEANER HOUSING (Lower Side)	1
30	680-217-750	TEMPLATE - AIR CLEANER HOUSING (Upper Front)	1
31	680-217-775	TEMPLATE - AIR CLEANER HOUSING (Front Lower)	1
32	680-017-600	TEMPLATE - GUARD PANEL (PX-II onwards)	1



SS984HP

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Installation Guide

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1

2

Fitment to:

Side

Fitting Time:

210min

Right Hand

Special Tools:

- Body Saw (Reciprocating)
- Step Drill
- 90 degree Drill
- 4.5, 5.5, 6.0 & 6.5mm Drill bits
- Files
- Allen Key Set

- Masking Tape
- Loctite 243 (thread lock)
- Touch-up paint
- Sikaflex 227 Adhesive Sealant

Prior to commencing the installation, it is the installer's responsibility to verify that all components and particularly the template (Item 32) are correct.

Remove and discard the Air intake duct.

Refit the two bolts removed after discarding the air intake duct.



Remove and Discard

Remove the following in accordance with the factory service manual:

- Air Cleaner Assembly
- RHS Mud Flap
- RHS Guard Liner
- RHS Guard Insulator

Remove and Discard



Remove and discard the inner guard plug (if fitted).

Remove and discard the three

perforated sections from the guard panel template (item 32) as shown.



Align the guard panel template (Item 32) 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 and the cut-out section with a felt tip pen.

Remove the template.



Mark

4

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

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

Drill 2 or 3, 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 5.

Deburr and paint all holes.



Step Drill 16mm Dia.

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

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.



Stainless Steel Mounting Studs

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.



Mark

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 Apillar and align the bracket with the marked bracket outline. Mark the three mounting hole positions with a felt tip pen.



Align

10

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.



Marked Hole Positions

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Copyright Safari 4x4 Engineering Pty Ltd Melbourne Victoria Australia – www.safari4x4.com.au Page 6 of 16 Plastic Inserts

Self Tapping Screws

Mark the centres of the two spot welds holding the bracket shown to the inner guard panel, using a 6.5mm drill bit and a 90 degree drill, drill out the two spot welds.

Using a small screwdriver or pry bar remove the bracket.

Unclip the washer hose from the inner guard panel.





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

Install the plastic inserts (Item 6) into the 8mm diameter

holes in the A-pillar.

Unclip the wiring loom from its mounting positions.

Install the inner guard support plate (item 20) to the inner guard panel, align and fasten to the 6.0mm hole in the inner guard panel with a M6 x 12mm button head bolt (item 24), M6 body washer (item 25) and M6 nyloc nut (item 26), align the support plate to the fold in the inner guard panel, mark or drill all ten mounting hole positions with a 5.5mm drill bit, mark or drill the washer hose relocation hole with a 6.0mm drill bit.

Mark the inner guard panel cut-out with a felt tip pen.

Using the body saw, cut the marked cut-out in the inner guard panel, cutting on the

Deburr and paint all holes and cut section of panel to prevent

outside of the line.

rust.

Remove the inner guard support plate (item 20).



Mark & Drill 6mm Dia.

Mark & Drill All Holes 5.5mm Dia.



Apply Sikaflex adhesive sealant to the inner guard support plate (item 20) and install the support plate to the inner guard panel, install all ten M5 x 12mm button head bolts (item 21), M5 body washers (item 22) and M5 nyloc nuts (item 23), install the M6 x 12mm button head bolt (item 24), M6 body washer (item 25) and M6 nyloc nut (item 26).

With all fasteners installed, secure the inner guard support plate to the inner guard panel.

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

Clip the wiring loom into the standard mounting holes.

M6 x 12mm B/H Bolt w/ Body Washer & Nyloc Nut



M5 x 12mm B/H Bolts w/ Body Washers & Nyloc Nuts



The ribs shown on the front corner of the air cleaner base must be neatly removed, using a body saw, side cutters, sharp knife or grinder remove the ribs.

Neatly apply masking tape to the upper front surface of the air cleaner base, align the front upper template (item 30) to the air cleaner base as shown. Mark the 2 hole positions and the cutting line.

Remove the template.





17

18

Neatly apply masking tape to the lower front surface of the air cleaner base, align the front lower template (item 31) to the air cleaner base as shown. Mark the 2 hole positions and the cutting line.

Remove the template.

Neatly apply masking tape to the upper side surface of the air cleaner base, align the upper side template (item 28) to the air cleaner base as shown. Mark the 2 hole positions and

the cutting line. Remove the template.



20

21

Neatly apply masking tape to the lower side surface of the air cleaner base, align the lower side template (item 29) to the air cleaner base as shown. Mark the 2 hole positions and the cutting line.

Remove the template.



Drill 4.5mm Dia.

Fill 4.5mm Dia.

Drill a pilot hole at each of the marked hole positions, using a 4.5mm diameter drill bit, drill the eleven holes to 4.5mm as shown. Using the body saw cut the new air inlet hole as marked from the templates in steps 17, 18, 19, & 20.

Use a file or die grinder to clean-up the cut section.



Using the body saw neatly remove the internal rib shown.

Using a die grinder, grind away the corner ribbing and the raised ribbing in the centre of the air cleaner base as shown.

Clean-up and deburr all cuts.



Apply Sikaflex adhesive sealant to the mating surfaces of the air cleaner base and air entry hose flange.

Install the air entry hose (item 10) onto the air cleaner base, install the main and front hose support plates (item's 11 &12) to the hose, start installing the M4 button head bolts (item's 13, 14 & 15) through the support plates, air entry hose and air cleaner base.

Note: There are three different length bolts supplied in the kit, ensure the correct length bolts are install into correct positions as shown.



M4 Body Washers & M4 Nyloc Nuts



Install a M4 body washer (item 16) and a M4 nyloc nut (item 17) to each of the bolts, tighten all the nuts, securing the air entry hose to the air cleaner base.

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

Measure and mark two hole positions 5.0mm in from the end of the air cleaner inlet snout as shown.

Drilled the two marked hole positions with a 4.0mm drill bit.



Blank-Off Plug

Apply Sikaflex adhesive sealant to the air cleaner inlet and blank-off plug (item 19), install the blank-off plug into the air cleaner inlet hole and secure with two self-taping screws (item 5).

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



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INSTALLER OPTION :

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

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



The end of the air entry hose (item 10) must be squashed inwards and taped to hold in two positions as shown.

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

With the hose taped, spray lubricant over the outside of the hose.

Install the air cleaner base

into position, guiding the air entry hose through the hole in the inner guard panel, with the air cleaner base correctly positioned, installed the two standard mounting bolts and

Loosely install the 100/120mm hose clamp (Item 18) onto the

air entry hose (item 10).



100/120mm Hose Clamp

Air Entry Hose

31

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



Body Washers & Nyloc Nuts

29

30

fasten.

Remove the tape.

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100/120mm Hose Clamp



Relocate the washer hose mounting clip into the 6.0mm hole drilled in the inner guard

Loosely install the black hose clamp (Item 27) over the base

of the air ram assembly (Item

Install the air ram assembly

Align the air ram assembly and tighten the black hose

onto the snorkel body.

clamp (Item 27).

panel in step 13.



Air Entry Hose



Relocate



35

34

2).

Install the RHS guard insulator, 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.

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