



SS175HF

ISUZU D-MAX (June 2012 onwards)
3.0Litre, 4 Cylinder Turbo Diesel (4JJ1-TC Hi-Power Engine)



01/09/2013

Parts List

ITEM	PART NO.	DESCRIPTION	QTY
1	740-133-000	BODY - SNORKEL (SS175HF)	1
2	000-135-800	3 1/2" AIR RAM ASSEMBLY	1
3	740-032-000	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	740-024-000	HOSE - AIR ENTRY	1
11	740-217-000	TEMPLATE - INNER GUARD	1
12	000-909	CLAMP - HOSE - 80/100mm	1
13	000-910	CLAMP - HOSE - 90/110mm	1
14	000-914/B	CLAMP - HOSE - SIZE 56 (BLACK)	1
15	740-017-000	TEMPLATE - GUARD PANEL	1



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3.0Litre, 4 Cylinder Turbo Diesel (4JJ1-TC Hi-Power Engine)

Installation Guide

Fitment to:

- Right Hand Side

Fitting Time:

- 180min

Special Tools:

- 111mm Hole Saw
- Step Drill
- Body Saw (reciprocating)
- Loctite 243 (Thread Lock)
- Masking Tape
- Touch-up paint
- Sikaflex 227 Adhesive Sealant
- File / Grinder

Prior to commencing the installation, it is the installer's responsibility to verify that all components and particularly the template (Item 15) are correct.

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

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

2

Remove and discard

- Air intake ducting



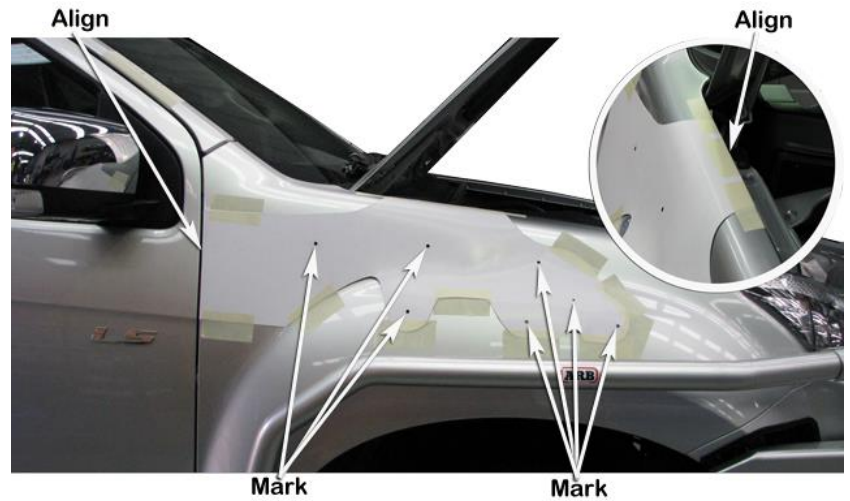
3

Align the guard panel template (Item 15) 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.



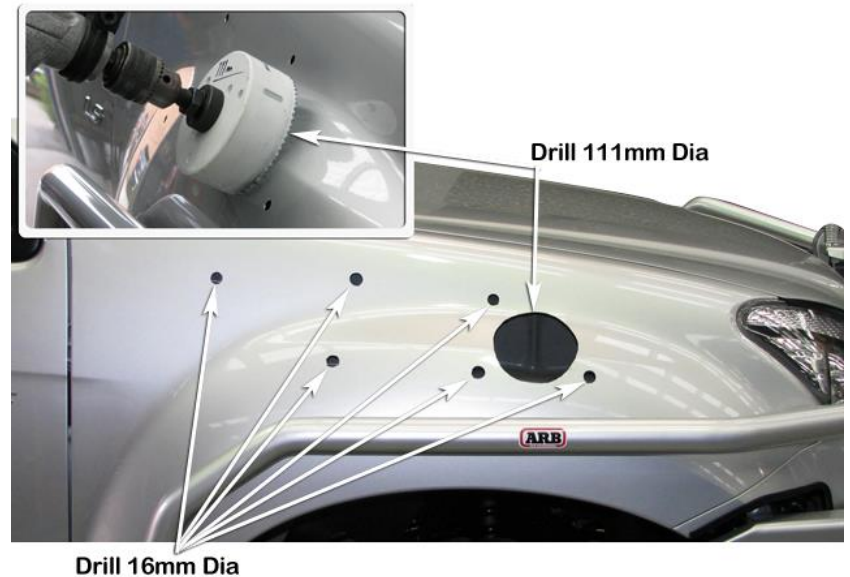
4

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, cutting through the lower section of guard panel first then through the upper section of panel as shown.

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

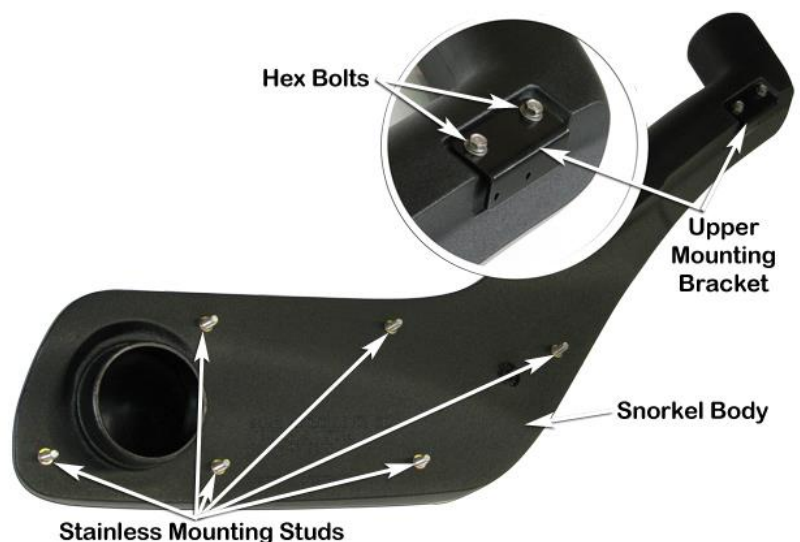
Deburr and paint all holes.



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.

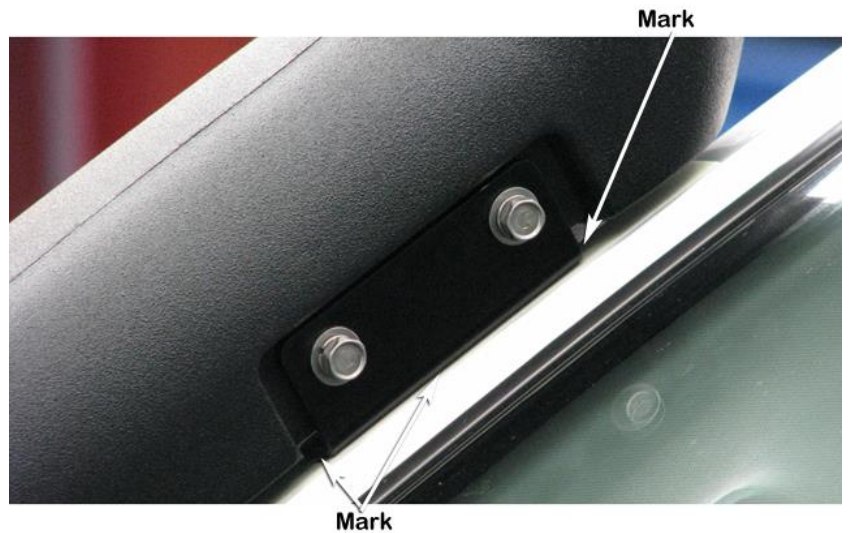


6

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

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

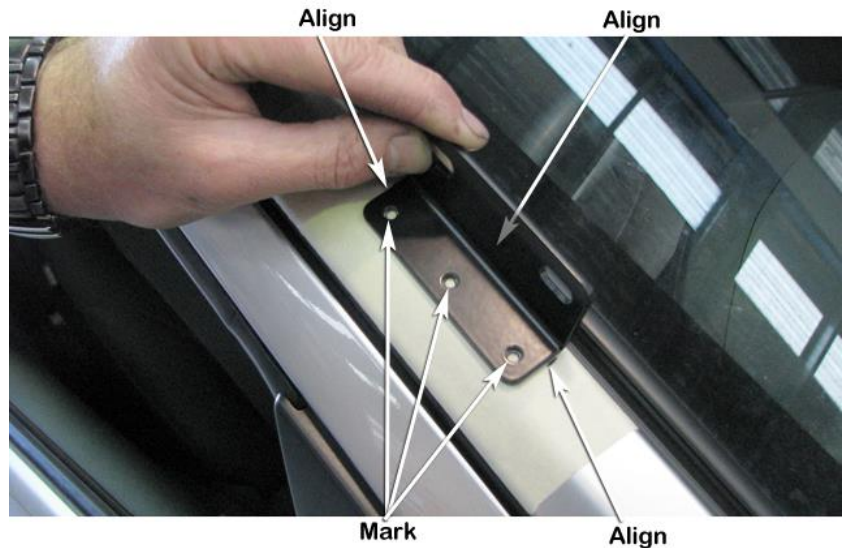
With the snorkel body correctly positioned, mark the outline of the upper mounting bracket (Item 3) onto the masking tape.



7

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

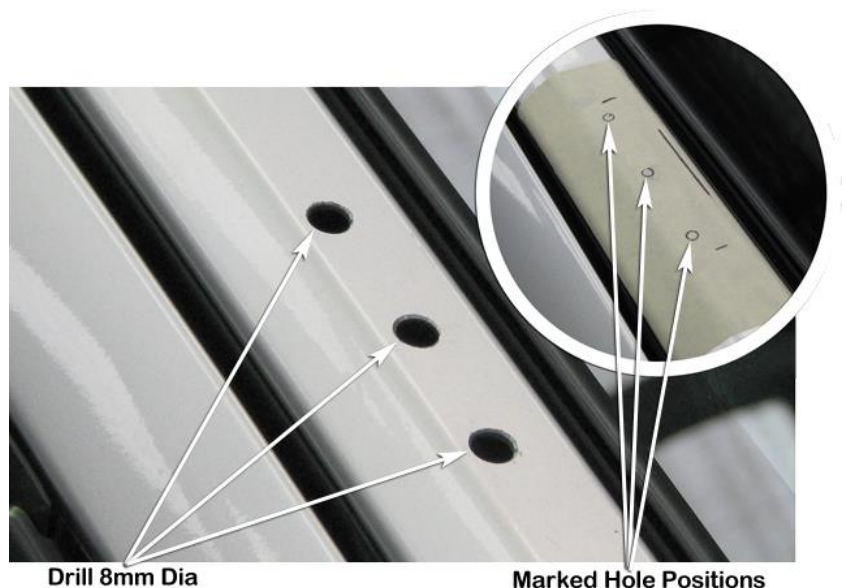
Position the upper mounting bracket (Item 3) onto the A-pillar and align the bracket with the marked bracket outline. Mark the three mounting hole positions with a felt tip pen.



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.

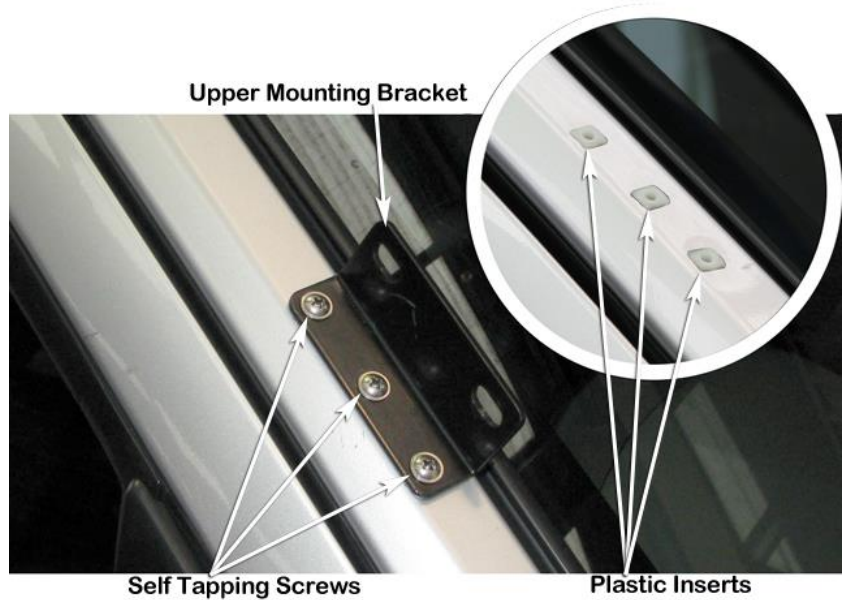
Deburr and paint holes.



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

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



11

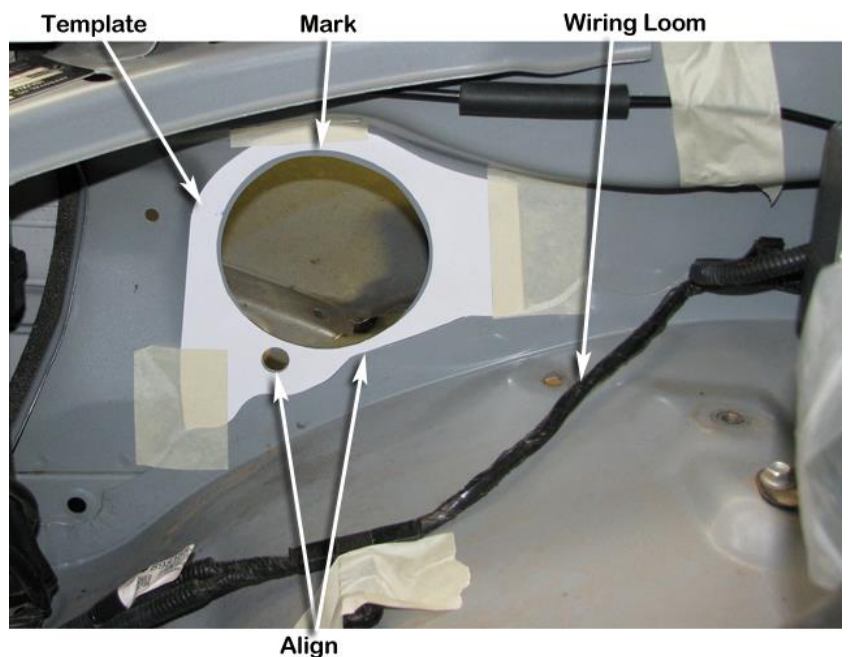
The hole in the inner guard panel needs to be enlarged for fitment of the air entry hose (item10).

Unclip the wiring loom from the inner guard panel, align the inner guard template (item 11) to inner guard profile and 14mm diameter hole of the inner guard panel as shown.

Tape the template to the guard panel with masking tape.

Mark the section of the inner guard panel with a felt tip pen.

Remove the template.

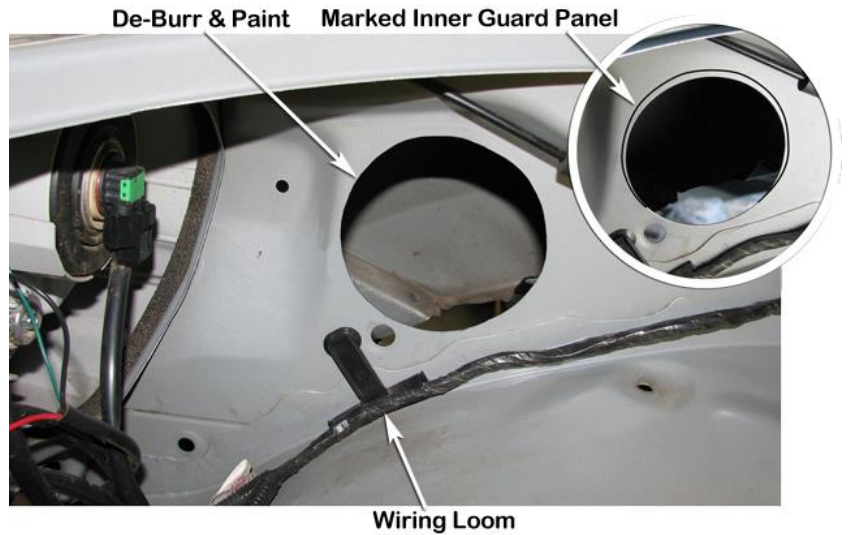


12

Using the body saw, cut away the marked section of the inner guard panel.

De-burr and paint the hole.

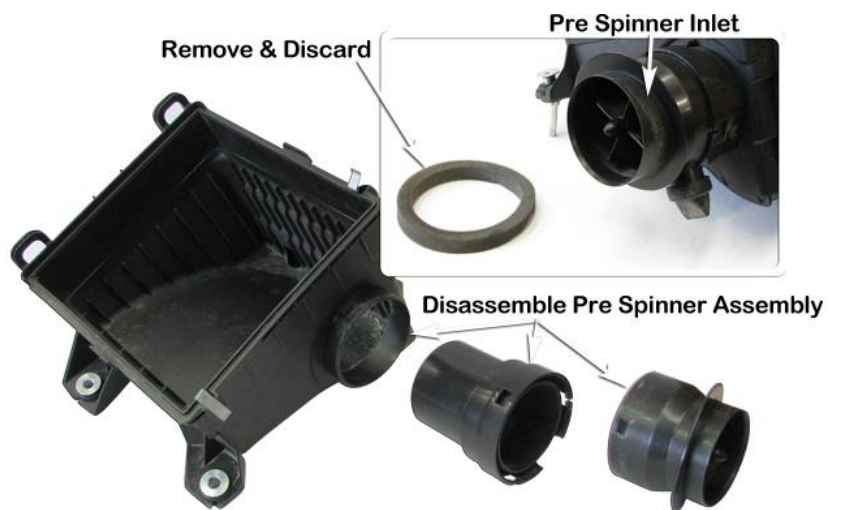
Re-clip the wiring loom back into position.



13

Remove and discard the foam seal from the pre-spinner inlet.

Completely dismantle the pre-spinner assembly from the air cleaner base as shown.



14

Using the body saw, cut-off the flange from the pre-spinner inlet, remove the remaining parts of the flange with a file or grinder.



15

Clean all mating surfaces of the pre-spinner and air cleaner base with a suitable solvent.

Apply adhesive sealant to the mating surfaces of the air cleaner housing inlet and the pre-spinner. Install the pre-spinner to the air cleaner housing.

Clean up any excess sealant to ensure a neat finish.

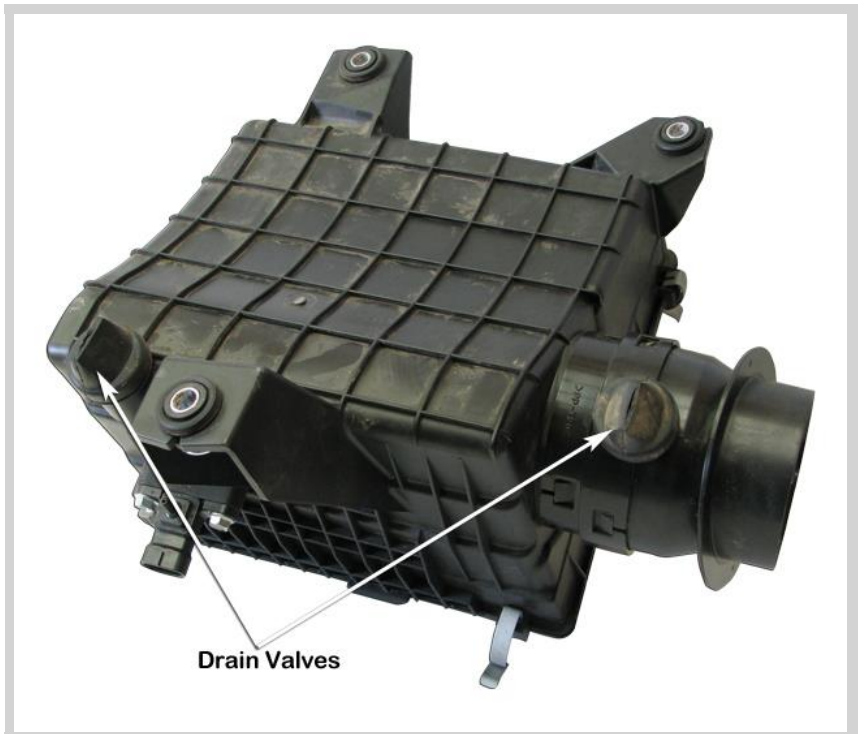


16

INSTALLER OPTION :

The air cleaner housing base and pre-spinner contain drain valves as shown. The drain valves can permit water to enter the air intake.

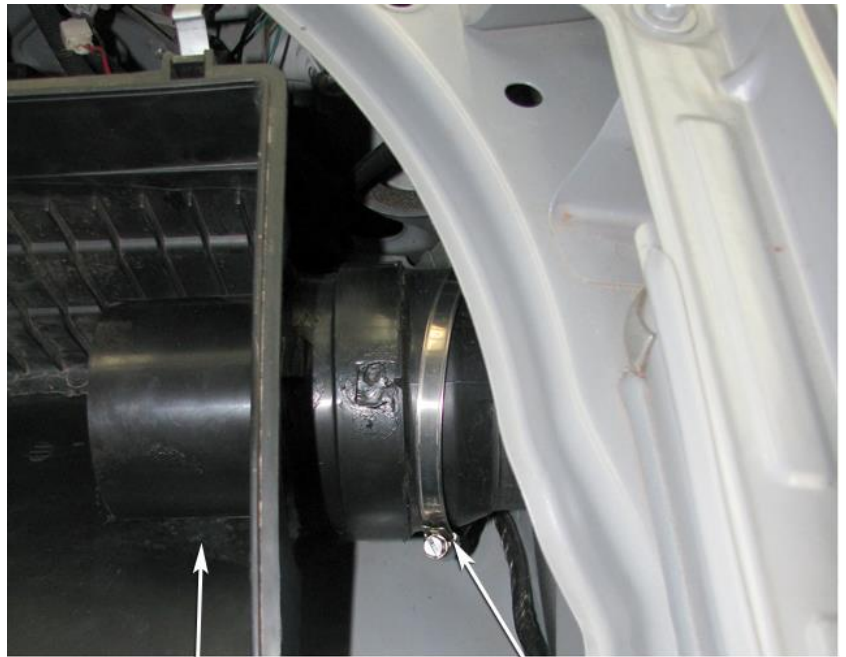
It is up to the installer to decide whether the drain valves should be sealed.



17

Loosely install a 80/100mm hose clamp (Item 12) over the pre-spinner inlet and install the air cleaner base into the vehicle, *(note the orientation of the hose clamp)*.

Fasten the air cleaner base with standard mounting bolts.



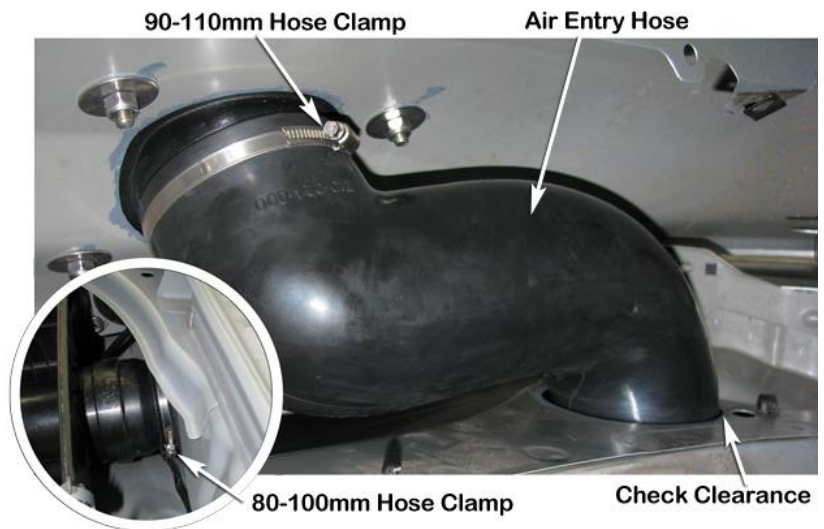
Air Cleaner Base

80/100mm Hose Clamp

18

Apply CRC or similar lubricant to the inside of the air entry hose, install the air entry hose through the hole in the inner guard panel and onto the pre-spinner inlet.

Loosely install a 90/110mm hose clamp (item 13) onto the air entry hose *(note the orientation of the hose clamp)*, install the air entry hose onto the snorkel body outlet. Align the hose for best fitment, check for adequate clearance between the air entry hose and inner guard panel hole, *(If necessary remove the air entry hose and air cleaner base and en-large the hole in the inner guard panel to achieve adequate clearance)*, correctly position the 80/100mm and 90/110mm hose clamps at either end of the air entry hose and tighten the hose clamps.



90-110mm Hose Clamp

Air Entry Hose

80-100mm Hose Clamp

Check Clearance

19

Install the black hose clamp (Item 14) 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 14).



20

Re-install the 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.

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