

SS1066HF SAFARI V-SPEC SNORKEL

Jeep JK Wrangler Left Hand Drive CRDI4 2.8Litre-I4 Diesel Engine and EGHV6 3.8Litre V6 Gasoline Engine



	2 Martin	6/10/2009	
ITEM	PART NO	DESCRIPTION	QTY
1	956-133-000	BODY - SNORKEL (SS1065HF)	1
2	000-135-800	3 1/2" AIR RAM ASSEMBLY	1
3	956-032-000	BRACKET - UPPER MOUNTING	1
4	000-002-100	BOLT - HEX - 6mm x 1.0 x 14mm (SEMS)	3
5	956-992-000	SPACER - PLASTIC 8.7mmID x 18mm x 4.5mm	2
6	000-110	STUD - S/S - 8mm x 1.25 x 25mm	3
7	000-311-300	WASHER - BODY - 8mm x 30mm - S/S	3
8	000-205-300	NUT - NYLOC - 8mm x 1.25mm - S/S	3
9	956-024-250	HOSE - AIR ENTRY	1
10	000-909	CLAMP - HOSE - 80/100mm	1
11	000-910	CLAMP - HOSE - 90/110mm	1
12	956-123-200	DUCT - AIR ENTRY (SS1066HF)	1
13	000-958-450	POP RIVET - ALUMINIUM - 4.8mm x 21mm	9
14	000-226	CLIP - SPIRE - 4.8 x 2.5/3.7mm	3
15	000-951-550	SCREW - S/T - 4.8mm x 16mm (BLACK)	3
16	000-914/B	CLAMP - HOSE - No. 56 (BLACK)	1
17	956-017-000	TEMPLATE - OUTER FENDER	1
18	956-017-200	TEMPLATE - INNER FENDER	1
19	956-017-300	TEMPLATE - FENDER LINER (FRONT)	1
20	956-017-400	TEMPLATE - FENDER LINER (REAR)	1
21	956-017-500	TEMPLATE - AIR CLEANER HOUSING	1
22	000-987-178	TIE STRAP - NYLON - 4.8mm x 178mm	1
23	000-268	NUT - TUBE - FENDER LINER	1
24	000-441-200	SLEEVE - AIR RAM	1



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Installation Guide



Prior to commencing the installation, it is the installer's responsibility to verify that all components and particularly the template (Item 17) are correct.

1 Jack the vehicle up and remove the right hand front wheel.



Remove Plastic Pop Rivets

Remove the RHS inner fender liner. (The 3 rear plastic pop rivets must be

removed as shown).

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

- Radio antenna
- Air cleaner assembly

Remove and discard the:

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- Air intake from the air • cleaner housing
- "Sport" sticker from the RHS fender. (Use prep wash to remove any sticky residue from the sticker).

Remove And Discard



Tape the outer fender template (Item 17) to the rear and upper edges of the right hand fender. Use a felt tip pen to mark the 3 hole positions and the required fender panel and flare cut out area.

Remove the template.



Cut Out Using Air Body Saw



Position the inner fender template (Item 18) over the 2 flare clips. Using a felt tip pen, mark the required fender panel area which needs to be removed.

Use an air body saw to remove the marked area of the inner fender panel, outer fender panel and flare.

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Drill pilot holes for the three marked mounting hole positions. Use a step drill to drill the 3 mounting hole positions to 16mm.

De burr and paint all the exposed metal surfaces to prevent rust.

Using a 12" or 18" adjustable wrench or specialized panel beating equipment, bend the lower "A" Pillar reinforcement panel inwards (Be sure to bend the panel far enough inwards).

This process is critical to ensure that adequate clearance is achieved for the fitment of the air entry hose (Item 9).

Prepare the surface and paint to prevent the panel from rusting.



Drill 16mm Holes

Cut Using Air Body Saw



Hose Installed Undercoating Of Panel

Remove the two stock bolts from the 'A' Pillar and install the two plastic spacers (Item 5) into the two 'A' Pillar bolt reliefs.

Apply Loctite 243 to the two stock 'A' Pillar bolts and install the upper mounting bracket (Item 3) onto the 'A' Pillar.

Fasten bolts in accordance with the factory service manual.



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Apply Loctite 243 to each of the stainless steel mounting studs (Item 6) and install the studs finger tight into the snorkel body inserts.

Stainless Steel Studs

11 Measure 65mm down from the top of the snorkel body and mark the circumference.

> Slide the air ram sleeve (Item 24) over the top of the snorkel body (Item 1) and align the bottom of the sleeve with the 65mm mark.

Lift the edges of the sleeve (Item 24) and apply several small dabs of Loctite 406 Instant Adhesive or similar to secure the sleeve in position.



6mm Hex Bolts

Upper Mounting Bracket

Install the snorkel body onto the fender panel.

Align the snorkel body to the upper mounting bracket and fender panel. When correctly aligned, fasten the snorkel body to the fender panel with body washers (Item 7) and nyloc nut (Item 8).

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

 Unclip the wiring harness from its mounting position. Mark 80mm down (3.2") from the top of the air cleaner housing mounting bracket as shown.

Use an air body saw to cut away the required section of the air cleaner housing mounting bracket as shown.

Ensure that the wiring harness is clear of the saw blade whilst cutting.







17 Position the air cleaner base template (Item 21) to the underside of the air cleaner base, locate the template over the two air cleaner base mounting pins as shown and mark the required profile.

> Use an air body saw to cut away the marked section of the air cleaner base and discard the centre cut piece.

> Use a fine file to smooth any rough edges in the air cleaner base part of the cut.

18 Position the air entry duct (Item 12) over the air cleaner base and press down firmly.

With the air entry duct correctly positioned onto the air cleaner base, mark the nine hole positions onto the air cleaner base.

Drill the marked hole positions on the air cleaner base with a 5mm (13/64") drill.

19 Install the air entry duct (Item 12) up through the air cleaner housing mounting bracket trimmed previously. Install a 90/110 hose clamp (Item 11) at the front end and a 80/100 hose clamp (Item 10) at the rear end of the air entry hose (Item 9).

> Install the air entry hose to the snorkel body outlet and the air entry duct.

Do not tighten the hose clamps yet.







Clip Wiring

Reposition the wiring loom to the upper holes.

Apply a thick coating of adhesive sealant to the air entry duct (Item 12) surfaces that will be mating with the bottom of the air cleaner base.

21 Reinstall the four air cleaner lid retaining clips to the aircleaner base and apply lubricant to the rubber air cleaner mounting bushes.

> Apply a generous coating of adhesive sealant to the underside surfaces of the air cleaner base that will be mating with the air entry duct (Item 12).

Install the air cleaner base and install all nine pop rivets before securing with the pop rivet gun.

To make the mounting pins watertight, completely seal the holes in the three mounting pins with adhesive sealant.

Wipe away and smooth out any excess adhesive sealant.



Thick Coating Adhesive Sealant



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Adjust the position of the air entry hose (Item 9) installed earlier for a relaxed fit. Tighten the hose clamps (Items 10 & 11) at each end of the air entry hose (Item 9).

Reinstall the air filter element, air cleaner housing top and connect sensor plugs.





24 Align the front inner fender liner template (Item 19) to the engine bay side of the front section of the plastic fender liner as shown. Retain with masking tape.

Mark and cut the inner fender liner as shown.

Mark the outline of the noted section of the fender liner to be cut and the hole position shown.

Use an air body saw to cut the marked section out from the front section of the plastic fender liner.

Drill the marked hole position with a 5mm (13/64") drill.



Align the rear inner fender liner template (Item 20) to the front wheel side of the plastic fender liner as shown. Retain with masking tape.

Mark the outline but do not cut yet.

Align Template



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Extend the cutting path as shown. Maintain approximately a 15mm (9/16") below the corner ridge shown.

Use an air body saw to cut the marked section out from the rear section of the plastic fender liner.



Trail fit the rear plastic inner fender liner and mark areas shown for additional trimming.

Trim marked areas to achieve a neat fit and finish.

28 Trial fit the front section of the fender liner and if required, make further trimming adjustments for a neat fit.

Install the front section of the fender liner and secure with the stock clips.

Drill a 5mm (13/64") hole into the shocker tower and with a small file, elongate the hole for the plastic tie strap. Deburr and paint the hole to prevent rust.Install the plastic tie strap (Item 22) as shown.







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