



# FITTING INSTRUCTIONS

<b>Product:</b>	<b>Snorkel</b>		
<b>Vehicle:</b>	<b>MITSUBISHI TRITON &amp; PAJERO SPORT</b>		
<b>Part No.</b>	<b>011SAT0150Q</b>	<b>011SAT0152M</b>	<b>011SATW0150Q</b>

- Before commencing fitment read instructions and ensure all listed components are supplied.
- Estimated Fitting Time: 2.5hrs
- Left hand & right hand components are determined as seated in the vehicle.
- The fitment of TJM products does not nullify the OE manufacturer's operating guidelines and/or warnings. Ensure you are familiar with and adhere to the usage instructions specified by the manufacturer in the owner's manual or other official documentation.
- When removing protective coatings, ensure all new edges are deburred, clean any swarf from the area and apply rust preventative to exposed surfaces.
- Always place the product on a soft work space to prevent damage prior to installation.
- To provide adequate sealing of the snorkel system all joints and openings must be sealed using neutral cure silicone. If the vehicle has a one way drain valve do not seal it as water entering through the snorkel head needs to drain. TJM recommend frequent inspections to confirm the air box is not retaining water especially after water crossings.

<b>Bolt tensions</b>	<b>Dia. (mm)</b>	<b>Nm</b>	<b>ft.lbs</b>	<b>Dia. (inch)</b>	<b>Nm</b>	<b>ft.lbs</b>
All bolt tensions are as follows unless otherwise specified.	5	5	4	1/4"	9	7
	6	9	7	5/16"	22	15
	8	22	16	3/8"	33	27
	10	44	32	7/16"	55	43
	12	77	57	1/2"	86	66

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PARTS LIST		
DESCRIPTION	QTY	PART No.
Intermediate Tube	1	011IP00150Q
Snorkel Body Gasket	1	4050MON05
Intermediate Tube Gasket	1	4050MON03
Air Box Adaptor Gasket Sml	1	4050MON04
Air Box Adaptor Gasket Lge	1	

011SAT0150Q ONLY		
Snorkel Body	1	011MB00150Q
Door Pillar Bracket	1	MM001
Outer Guard Template	1	F-11406-T
M8 x 1.25 x 35 S/S Studs	5	
Air Ram	1	011AR14B97T

011SAT0152M ONLY		
Snorkel Body	1	011MB00152M
Door Pillar Bracket	1	F-12309
Outer Guard Template	1	F-12238-T
M8 x 1.25 x 30 S/S Studs	5	
Air Ram	1	011AR14B97T

011SATW0150Q ONLY		
Snorkel Body	1	011MB00150Q
Door Pillar Bracket	1	MM001
Outer Guard Template	1	F-11406-T
M8 x 1.25 x 35 S/S Studs	5	
Wedgetail	1	011AIRWT450

BOLT KIT	
DESCRIPTION	QTY
M8 x 1.25 x 16 Button Head Screw (black)	1
M8 Spring Washer (black)	1
M8 Flat Washer (black)	1
Nylon Plug	2
3/4" x 8G Stainless PK Screw	2
M8 x 1.25 x 35 Hex head Bolt	1
M8 Spring Washer	1
M8 Flat Washer	1
M8 Mudguard Washer	5
M8 Hex Head Nyloc Nuts	5

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Step 1

1. Disconnect the harness connector from the air flow sensor and unclip the harness from the air box lid.



2. Disconnect engine intake from air box via the hose clamp.
3. Cover the engine intake pipe with a clean plastic bag or similar so no foreign matter can enter the engine.



4. Remove and retain the air box lid and air filter element.

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5. Remove and retain the fasteners (2) securing the air box base to the vehicle.
6. Remove and retain the air box by lifting up and releasing it from its locating grommets.



7. Remove the air box adaptor tube from the base of the air box by releasing the clips with a flat head screwdriver as shown.



8. Along the sides of the original air box adaptor tube are 2 rectangular covers, one large and one small. Unclip the covers as shown.

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9. Remove the backing from the foam pads supplied and place them in the adaptor tube as shown.



10. Once the foam gasket is secured in the recess replace the cover. Repeat for the other side.

**Note: Neutral cure silicone may be applied to the edges of the foam gaskets to decrease dust intrusion.**



11. Run a bead of neutral cure silicone around the end of the original air box adaptor tube that connects to the air box and refit it back into position ensuring it clips securely. Set aside for refit later.

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12. If equipped with a mud flap, remove by unfastening the retaining screws. Retain the mud flap and screws for refit.

**Note: Turning the wheel full lock to the right will give you more room to work in the wheel arch cavity.**

13. Remove and retain the fasteners that secure the rear half of the right hand plastic inner guard. Remove and retain the plastic inner guard.

14. From under the guard remove and discard the foam pad as shown.



15. Cut out the outer guard template and carefully align with the top and rear outer edges of the right hand guard. Tape it in place.

**Ensure the template follows the contour of the guard.**

16. Centre-punch the 13mm hole positions (5) and the 98mm hole position (1).

17. Drill 3mm pilot holes at all centre punched positions.



18. Drill the stud pilot holes to 13mm, and drill the snorkel inlet hole to 98mm using a 98mm hole saw.

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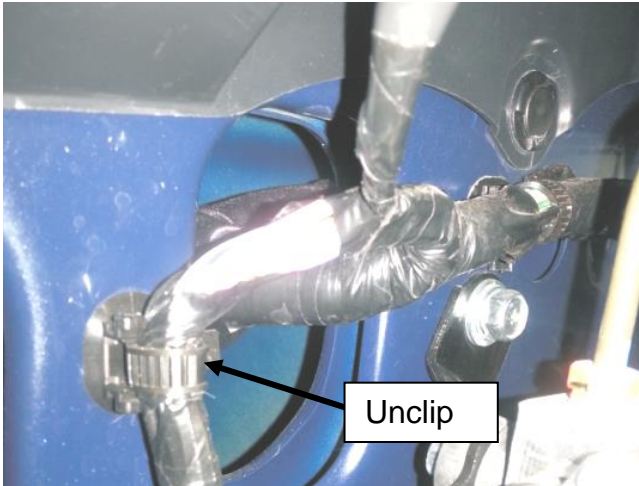
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19. From inside the guard, unclip the wire harness from the vehicle and move out of the way to ensure clearance when drilling in step 20.



20. Viewing through the 98mm hole in the outer guard you will see a pre-existing oval hole in the inner guard. Through this oval hole drill a 10mm hole in the second inner guard panel.

21. Deburr all holes from steps 18 and 20, clean any swarf from the areas and apply rust preventative to exposed surfaces.

22. Reinstall clip removed in step 19.



23. Place the snorkel body foam gasket over the end of the snorkel as shown.

24. Loctite all studs into snorkel body.

25. Lightly secure the door pillar bracket to the snorkel, using a black M8 x 1.25 x 16mm button head socket screw (1), M8 spring washer (1) and M8 flat washer (1).

26. Mask the RHS A pillar to prevent damage.

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27. Place the intermediate tube foam gasket over the end of the intermediate tube as shown.



28. Place the intermediate tube in position under the guard and secure with M8x1.25x35mm hex bolt (1), M8 spring washer (1) and M8 flat washer (1).



29. Using the snorkel body studs and the intermediate tube as a guide, temporarily place the snorkel in position, on the outer guard.

30. Using the bracket as a template, mark the two hole positions on the A pillar.

31. Remove the snorkel body from the vehicle.

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32. Centre-punch the holes marked, then drill 4mm pilot holes at the positions centre-punched then drill two 8mm holes.

**IMPORTANT. When you drill these holes in the A pillar drill the 4mm pilot hole through the outer and inner skin, then the 8mm hole through the OUTER SKIN ONLY**

33. Remove the protective tape from the A pillar. Deburr all holes, clean any swarf from the areas and apply rust preventative to exposed surfaces.

34. Apply silicone to 8mm holes and insert the nylon plugs

35. Remove the door pillar bracket from the snorkel body (retaining the fastener) and secure the bracket in place on the A pillar, using  $\frac{3}{4}$ " x 8g stainless steel PK screws (2).



36. Run a bead of neutral cure silicone around the end of the OE air box adaptor (just in front of the foam seal).

37. Refit the air box base into position, feeding the foam gasket into the snorkel intermediate tube.

Step 14

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38. Secure the air box base back into the vehicle with original fasteners.

39. Refit the air filter element and air box lid and secure with clips.

40. Remove the protective bag covering the engine intake hose and reconnect to air box.

**Ensure the hose clamp is tightened to the correct torque settings.**

41. Reconnect the harness connector to the air flow sensor.



42. Through the 98mm hole in the guard apply neutral clear silicone to the inside surface of the intermediate tube at the snorkel end.



43. Fit the snorkel body to the guard by locating the short tube section at the bottom of the snorkel inside the intermediate tube.

44. Lightly secure the snorkel to the door pillar bracket using the M8 x 1.25 x 16mm button head socket screw (1), M8 spring washer (1) and M8 flat washer (1).

**Do not tighten. Leave loose for adjustment of snorkel.**

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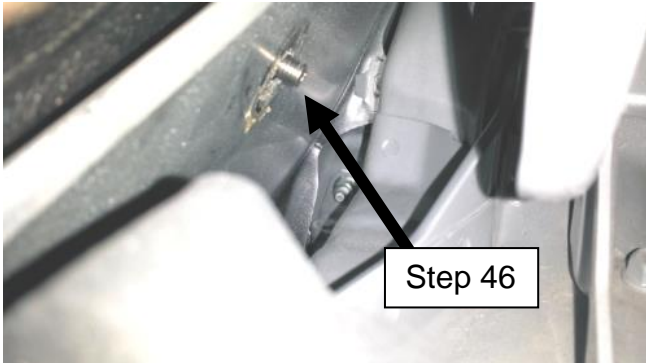
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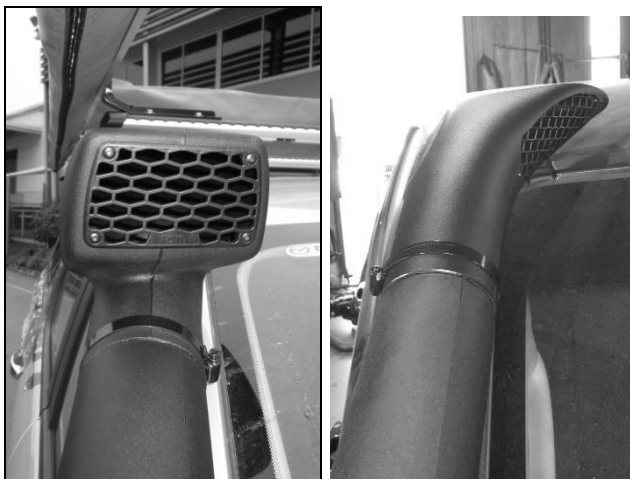
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45. From inside the guard secure the snorkel to the guard using M8 nyloc nuts (4) and M8 mudguard washers (4).

46. From under the bonnet secure the 5th stud using M8 nyloc nut (1) and M8 mudguard washer (1).



47. Tension the button head socket screw securing the door pillar bracket to the snorkel body.

48. If fitting an Air Ram, position on the snorkel body so that the fasteners securing the mesh are horizontal. Secure in place using the black hose clamp supplied.

49. If fitting a Wedgetail, position on the snorkel body so that the wedgetail is parallel to the windscreen. Secure in place using the black hose clamp supplied.

50. Ensure that all fittings are secure and all fasteners are fully tightened to the appropriate torque settings on page 1.

51. Ensure as a result of fitting this product no vehicle components are crushed or will chafe.

52. Refit the right hand plastic inner guard and mud flap and secure with the original fasteners.

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