



FITTING INSTRUCTIONS

Product:	Airtec Snorkel
Vehicle:	Toyota Landcruiser 200 Series
Part No.	011SAT0182A

READ INSTRUCTIONS CAREFULLY BEFORE COMMENCING ANY WORK

- **Estimated Fitting Time: 2hrs**
- **Before commencing installation, ensure that the air box configuration is as shown in the images and that all listed components are supplied.**
- **To prevent the snorkel body from being damaged before installation, always place the snorkel body on cardboard. Do not place the snorkel body on the ground or on any rough surface.**
- **To provide adequate sealing of the snorkel system all joints and openings must be sealed using a neutral cure silicon. 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.**
- **Left hand & right hand is determined as seated in the vehicle.**

PARTS LIST			BOLT KIT	
DESCRIPTION	QTY	PART No.	DESCRIPTION	QTY
Snorkel Body	1	011MB00182A	M8 x 1.25 x 16mm Stainless Hex Bolt	3
Intermediate Tube	1	011IP00182A	M8 x 1.25 x 30mm Stud	4
Intermediate Tube Foam Gasket	1	011IG00182A	M8 x 1.25 Nyloc Hex Nut	4
Door Pillar Bracket	1	F-2781	M8 x 3.0 x 2.0 SS304 Medium Spring	3
Inner Guard Template	1	86734-T1	M8 x Ø17mm x 1.2 SS304 Flat Washer	3
Outer Guard Template	1	86734-T2	5/16" x Ø1-1/4" x 16g Flat Washer	4
Fitting Instructions	1	86734	3/4" x 10G Stainless PK Screw	2
76 – 127mm Stainless Hose Clamp	1	K1412	Grommet (F1031)	2

Bolt tensions	Dia. (mm)	Nm	ft.lbs	Dia. (inch)	Nm	ft.lbs
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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Product:

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Vehicle:

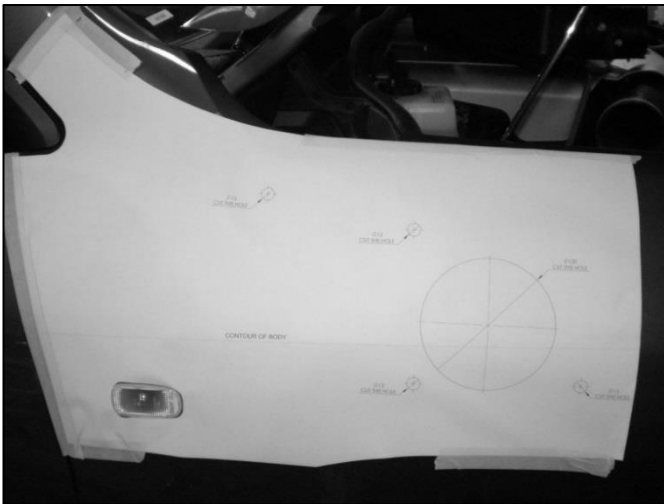
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1. Check the outer guard template on the snorkel body to ensure that the hole and stud positions match.
2. Loctite the M8 x 1.25 x 30mm studs (4) into the nutserts in the snorkel body.
3. Remove (and retain) the OE fasteners and fittings securing the driver's side plastic inner guard in place, then remove the plastic inner guard.
4. Open the bonnet and remove the OE air intake and the OE air box, retaining the OE fasteners and fittings.



5. Cut out and align the outer guard template on the driver's side front guard.



6. Once aligned, secure the template in place using masking tape.

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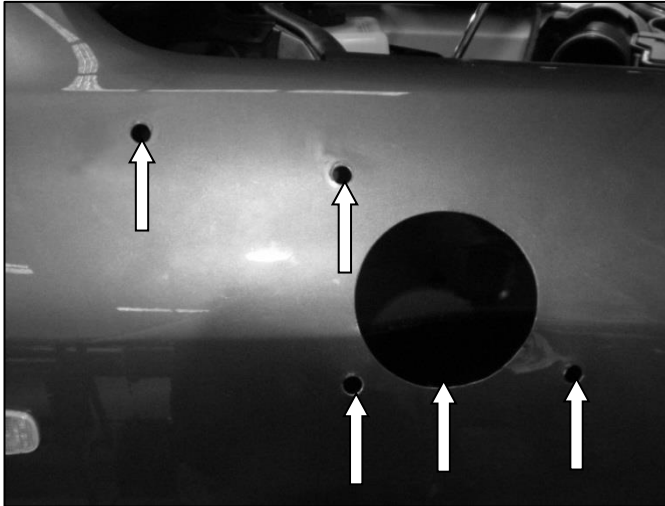
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7. Mark the 5 holes to be drilled, then remove the template.
8. Pilot drill the holes with a $\text{Ø}3\text{mm}$ bit.
9. Drill the four smaller holes out to $\text{Ø}14\text{mm}$.
10. Drill the large hole to $\text{Ø}120\text{mm}$, using a hole saw.
11. De-burr all of the holes and clean the area of any swarf/debris, then treat the raw exposed surfaces with a rust proof grease.



12. To avoid damaging the area when positioning the snorkel body/snorkel bracket, mask the RHS windscreen pillar.
13. Secure the door pillar bracket (F-2781) to the snorkel body using an M8 x 1.25 x 16mm hex head screw (1), M8 x $\text{Ø}17\text{mm}$ stainless flat washer (1) and M8 stainless spring washer (1).
14. Place the snorkel body on the guard, **ENSURING THE HOLES ARE ALIGNED AND THAT THE SNORKEL BODY IS MATCHING THE VEHICLE BODY AND A-PILLAR CONTOURS.**



15. With the door pillar bracket in position on the door pillar, mark the hole positions.
16. Remove the snorkel body & pilot drill the positions marked in the previous step out to 2.5mm, then drill them out to $\text{Ø}5/16''$.
17. De-burr both holes and clean the area of any swarf/debris, then treat the raw exposed surfaces with a rust proof grease.
18. Remove the door pillar bracket from the snorkel body (retaining the fasteners).
19. Insert a grommet into each hole drilled in step 16, then secure the door pillar bracket to the vehicle, using $3/4''$ x 10g PK screws (2).

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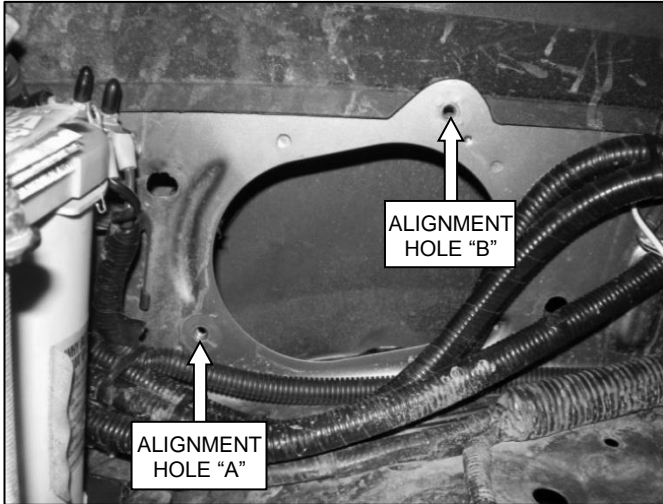
Airtec Snorkel

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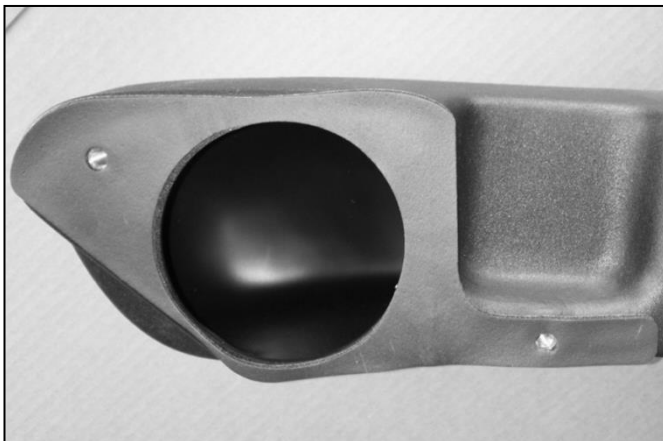
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20. Using the OE air intake bolt holes for alignment, place the inner guard template into position.
21. Mark the holes to be drilled & remove the template.
22. Pilot drill the holes for the mounting of the adaptor tube with a $\varnothing 3\text{mm}$ bit, then drill them out to $\varnothing 11\text{mm}$.
23. De-burr both holes and clean the area of any swarf/debris, then treat the raw exposed surfaces with a rust proof grease.



24. Peel the backing off the foam gasket, then place the adaptor tube foam gasket on the adaptor tube as shown.
25. With the hose clamp in place, position the adaptor tube in between the outer guard and the inner guard. Then, finger tightening only, secure the adaptor tube in the OE air intake position, using M8 x 1.25 x 16mm hex bolts (2), M8 x $\varnothing 17\text{mm}$ stainless flat washers (2) and M8 stainless spring washers (2).



26. Place neutral cure silicone along the inside edge of the adaptor tube as shown.
27. Place the snorkel body on the front guard and push the snorkel body into the adaptor tube.

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28. From inside the inner guard, secure the snorkel body to the front guard, using 5/16" x Ø1-1/4" flat washers (4) and M8 x 1.25 nyloc nuts (4).

Tighten the front stud first, followed by the rear stud, then all remaining studs.

29. Secure the snorkel body to the door pillar bracket using the fasteners retained in step 18.
30. Tighten the hose clamp on the snorkel body.



31. Tighten the fasteners securing the adaptor tube.
32. Place the OE air intake in its original position and secure it in place using the OE fasteners.



33. Ensure that all the fittings and mountings have been tightened.
34. Place the OE air box and plastic inner guard back into their original position and secure them in place using the OE fasteners and fittings.
35. Ensure that, as a result of fitting the snorkel, no vehicle components are crushed or will chafe.

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