



FITTING INSTRUCTIONS

Product:	Airtec Snorkel
Vehicle:	Toyota 4Runner
Part No.	011SAT0186Z

- Before commencing installation read instructions carefully, ensure that the air box configuration is as shown in the images and all listed components are supplied.
- Estimated Fitting Time: 2.5hrs
- Left hand & right hand is determined as seated in the vehicle.
- Always place the product on a soft work space to prevent damage prior to installation.
- When removing protective coatings, ensure all new edges are deburred, clean any swarf from the area and apply rust preventative to exposed surfaces.
- 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.
- 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.

PARTS LIST		
DESCRIPTION	QTY	PART No.
Snorkel Body	1	011MB00186Z
Intermediate Tube	1	011IP00186Z
Gasket - Intermediate Tube	1	FGIP0186Z
052 Stainless Hose Clamp	1	HC052
Snorkel Bracket	1	F-14831
Template - Fender	1	F-16299-T1

BOLT KIT	
DESCRIPTION	QTY
M8 x 1.25 x 30mm Stud	6
M8 x 1.25 Nyloc Nut	6
5/16" x 1 1/4" Fender Washer	6
M8 x 1.25 x 16mm Button Head Screw (Black)	1
M8 x 17 mm OD x 1.2mm Flat Washer (Black)	1
M8 x 3.0 x 2.0 Spring Washer (Black)	1
M4 x 0.7 x 16mm Stainless Steel Screw	2
M4 x 0.7 Rubber Nut-Insert	2
Body Clip	13

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

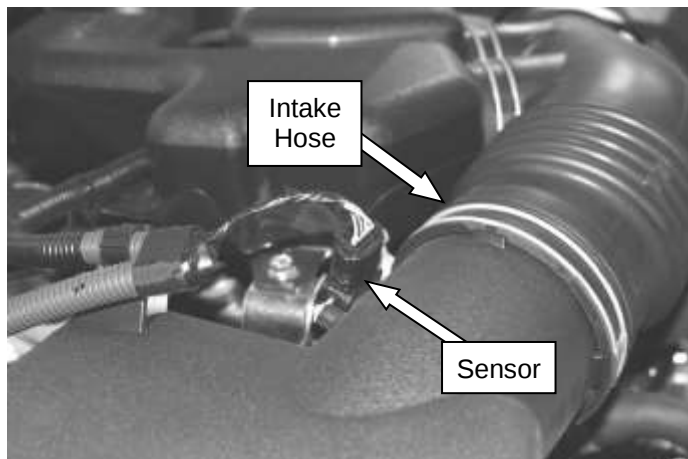
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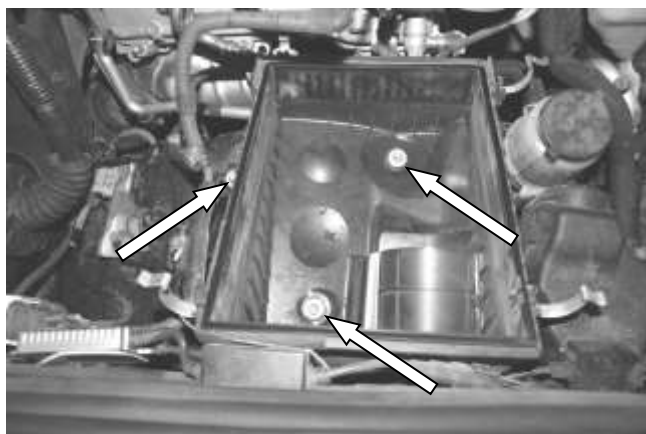
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1. Place the fender template over the snorkel body and check that the stud and hole positions match.
2. Un-plug air-flow sensor connector and loosen clamp then disconnect intake hose from the air-filter assembly. Disconnect wiring loom from air-filter assembly.

Ensure that no foreign matter can enter the engine intake.



3. Unclip (and remove) the top section of the air-filter assembly and remove the filter.
4. Remove the three bolts in the base of the air-filter assembly. Now remove the lower section of the air-filter assembly, ensuring that all the air-filter assembly components and fasteners are retained for re-fitment.



5. Remove the mud flap by removing one plastic clip and four screws.

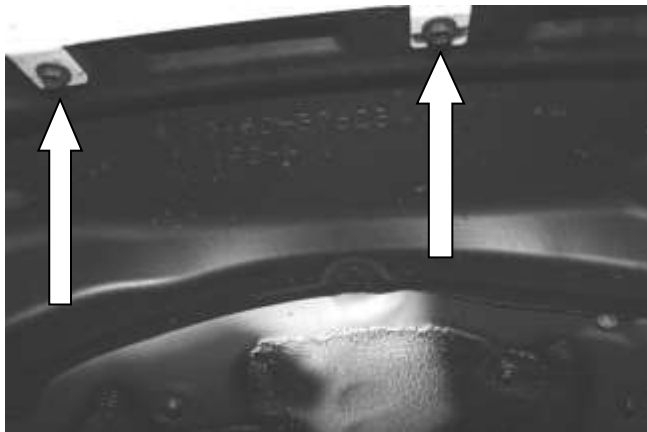
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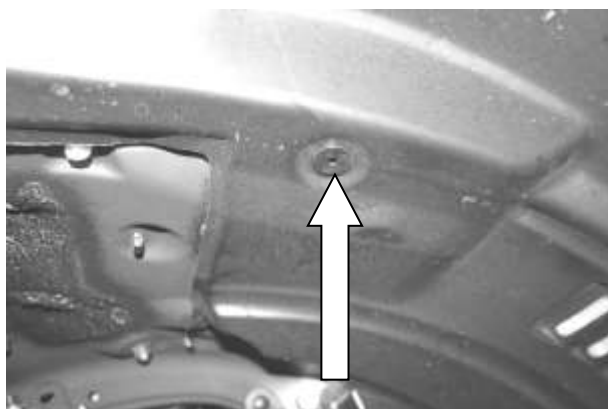
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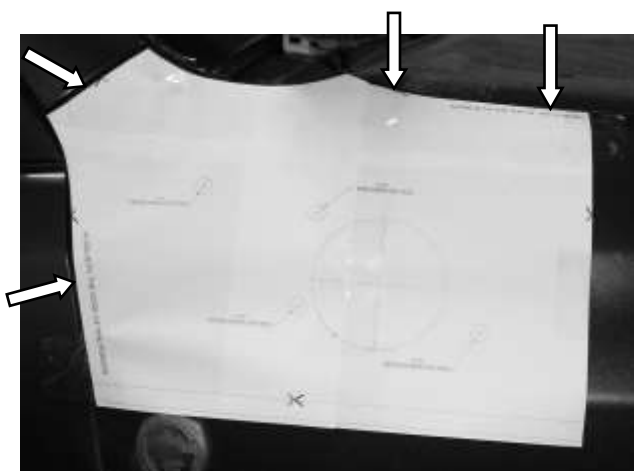


6. Remove seven screws attaching fender flare to inner fender.
7. Starting at the bottom firmly pull out on fender flare to release clips. Working your way up and forward until flare is loose. Set flare aside.



8. Remove the plastic clips securing the plastic inner fender in place. Three clips are accessed via the engine bay and the remainder are accessed via the fender cavity.

Replacement clips are supplied.



9. Trim the fender template to shape and, starting with upper edge, align the edges of the fender template with the fender, tape it in position.
10. Carefully center-punch and pilot drill all holes.

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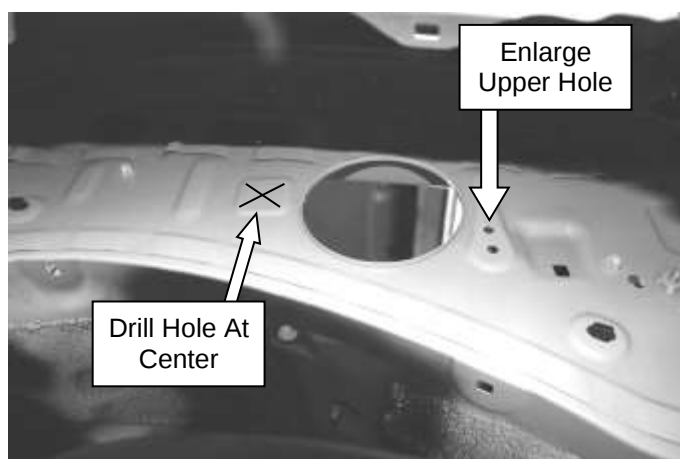
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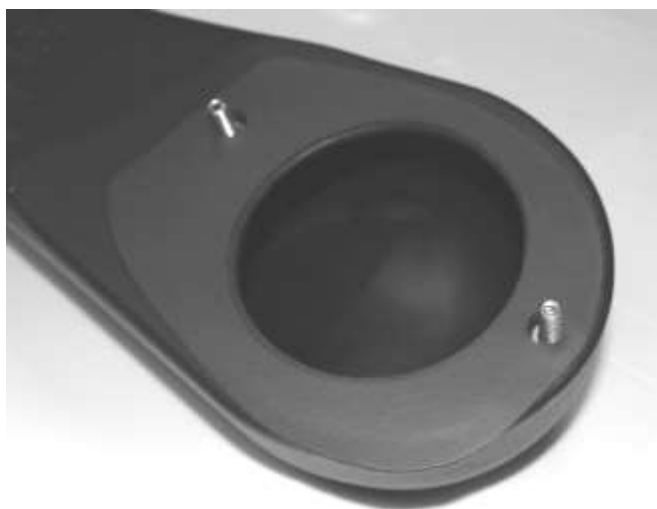
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11. Drill the four stud holes out to 1/2", then using a 4-1/4" hole saw, drill out the intake hole.
12. Deburr the holes and clean the area of any debris. Then, treat the raw exposed surfaces with a rust preventative.



13. Mark the center of the square shaped boss indicated. Carefully center-punch and pilot drill the hole. Then drill the holes indicated out to 1/2".
14. Deburr the holes and clean the area of any debris. Then, treat the raw exposed surfaces with a rust preventative.



15. Apply Loctite or an equivalent to the two studs supplied with the intermediate tube, then secure the studs in the intermediate tube.
16. Using the hole pattern as a guide, align and position the intermediate tube gasket on the inner fender end of the intermediate tube.

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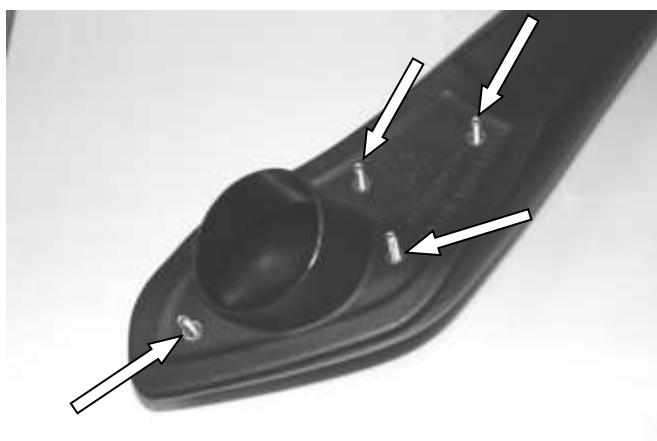
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17. Temporarily install intermediate tube aligning studs with holes in inner fender previously drilled and align large inlet hole with hole in inner fender. Check that intermediate tube lines up with large hole previously drilled in fender.

18. Once satisfied that holes line up correctly, remove intermediate tube.



19. Apply Loctite or an equivalent to the four studs supplied with the snorkel body, then secure the studs in the snorkel body.



20. Mask the A pillar in the area indicated.

21. Secure the snorkel bracket "F-14831" to the snorkel body using M8 x 1.25 x 16mm bolt (1), M8 spring washer (1), and M8 flat washer (1).

22. Using the snorkel body studs as a guide, position the snorkel body in place on the fender.

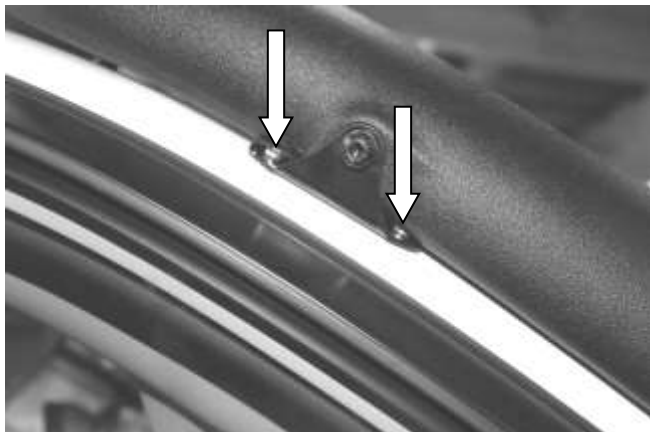
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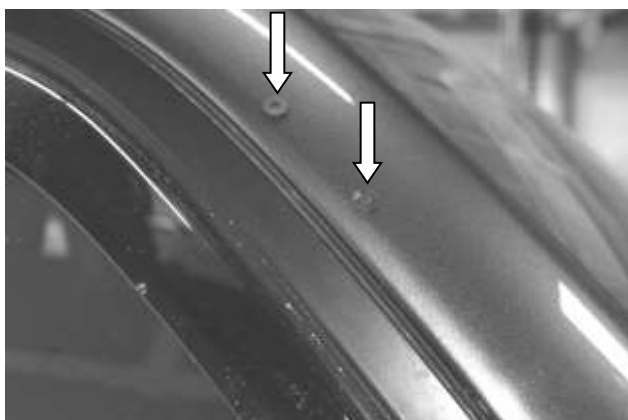
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23. Mark the two holes indicated. Remove snorkel from vehicle and drill holes to 5/16".



24. Insert the two rubber nut-inserts provided.



25. Using the two M4 x 16mm screws provided, attach the snorkel bracket to the rubber nut-inserts.

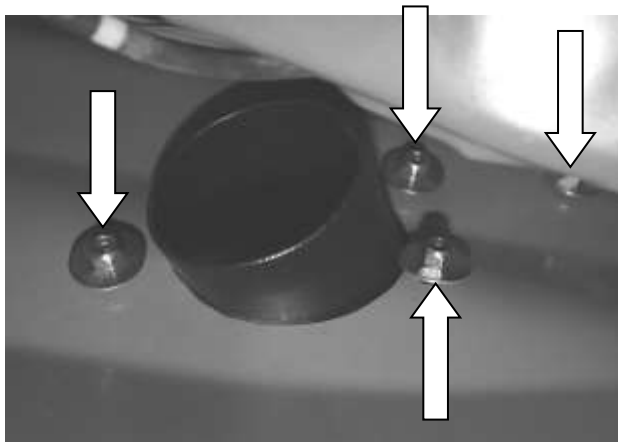
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26. Install snorkel to vehicle. Align studs with holes in fender and align snorkel with snorkel bracket.
27. Place M8 fender washers (4) and M8 nyloc nuts (4) over the studs in the snorkel body.

Using heavy grease on the washers will aid in holding them in position.



28. Attach snorkel to snorkel bracket using M8 x 1.25 x 16mm bolt (1), M8 flat washer (1), and M8 spring washer (1).

Snorkel Body End Shown



29. Apply neutral cure silicon along the inside of the snorkel body end of the intermediate tube.
30. Place the hose clamp over the snorkel body end of the intermediate tube.
31. Rotate the intermediate tube into position ensuring that the snorkel body end sits over the snorkel body, and that the mounting studs in the intermediate tube line up with the holes drilled in step 13.

There is some maneuvering involved in this process.

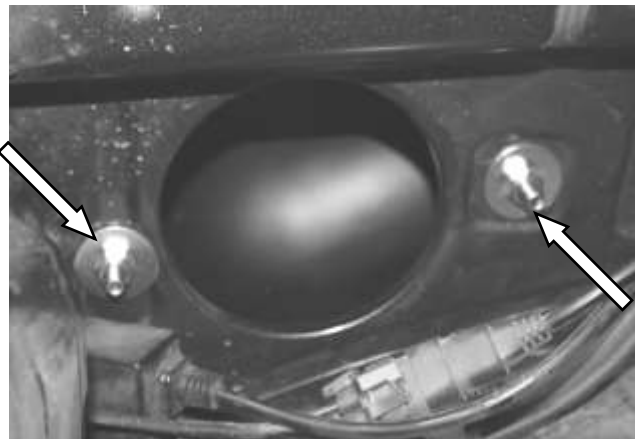
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32. Secure the intermediate tube in place using M8 fender washers (2) and M8 nyloc nuts (2) over the studs in the intake adaptor tube.
33. Tension all fasteners to the appropriate torque settings.
34. Tighten the hose clamp installed in step 30.



35. Re-install the air-filter assembly to its original position using all of the O.E. components and fasteners.
36. Re-connect the air flow sensor and intake tube to the air-filter assembly.



37. Re-install the plastic inner fender using clips previously removed. New clips are supplied if needed.
38. Re-install fender flare to vehicle using hardware previously removed.
39. Re-install mud flap using hardware previously removed.

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