



# FITTING INSTRUCTIONS

|                 |                                |
|-----------------|--------------------------------|
| <b>Product:</b> | <b>Airtec Snorkel</b>          |
| <b>Vehicle:</b> | <b>Toyota Prado 150 Series</b> |
| <b>Part No.</b> | <b>011SAT0188L</b>             |

- 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 components are 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   | 011MB00188L |
| Gasket - Snorkel Body                | 1   | FGMB0188L   |
| Intermediate Tube                    | 1   | 011IP00188L |
| Gasket - Intermediate Tube           | 1   | FGIP0188L   |
| 052 Stainless Hose Clamp             | 1   | HC052       |
| Snorkel Bracket                      | 1   | F-16449     |
| Fitting Instructions                 | 1   | 89024       |
| Template – Outer Guard & Inner Guard | 1   | 89024-T     |

| BOLT KIT                               |     |
|--|-----|
| DESCRIPTION                            | QTY |
| M8 x 1.25 x 30mm Stainless Steel Stud  | 6   |
| M8 x 1.25 Nyloc Nut                    | 6   |
| M8 Mudguard Washer                     | 6   |
| M8 x 1.25 x 16mm Stainless Steel Bolt  | 1   |
| M8 x Ø19mm Stainless Steel Flat Washer | 1   |
| M8 Stainless Steel Spring Washer       | 1   |
| Nylon Plug                             | 2   |
| 3/4" x 8G Stainless Steel PK Screw     | 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:

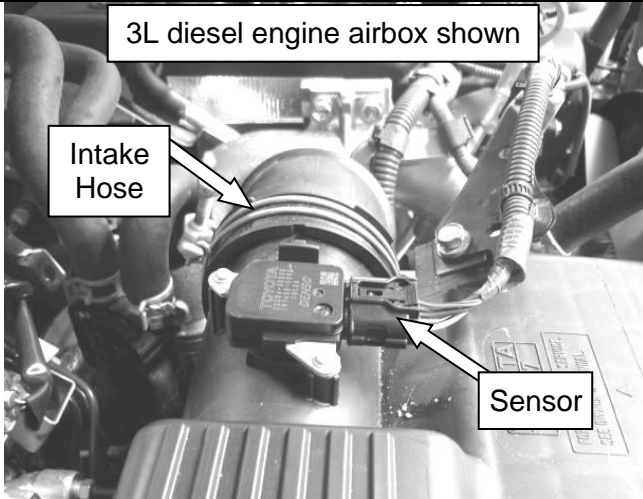
Airtec Snorkel

Vehicle:

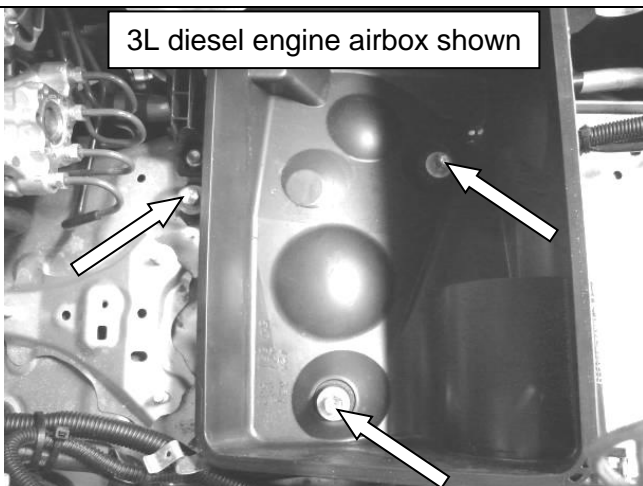
Toyota Prado 150 Series

Part No.

011SAT0188L

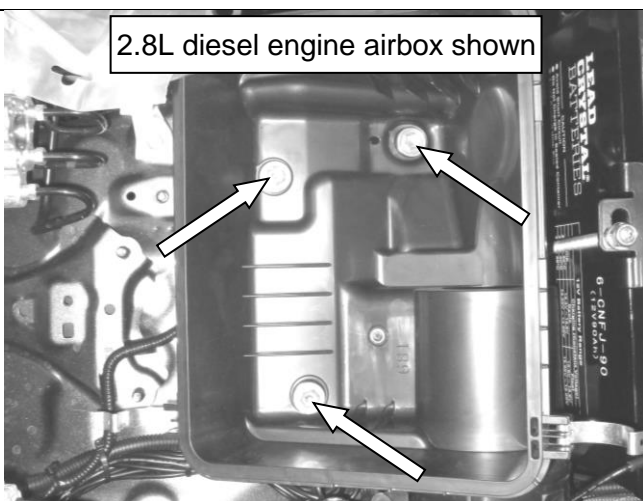


1. Place the outer guard template over the snorkel body and check that the stud and hole positions match.
2. Disconnect the air-flow sensor and harness from the air box.
3. Loosen the intake hose clamp and remove the intake hose from the air-filter assembly.
4. Cover the engine intake hose with a clean plastic bag so no foreign matter can enter the engine.
5. Unclip (and remove) the top section of the air-filter assembly and remove the air filter.



***Steps 6 & 7 apply if fitting an Airtec Snorkel to a 3L diesel engine.***

6. Remove (& retain) the three fasteners shown in the base of the air-filter assembly.
7. Remove (& retain) the lower section of the air-filter assembly, ensuring that all the air-filter assembly components are retained for re-fitment.



***Steps 8 & 9 apply if fitting an Airtec Snorkel to a 2.8L diesel engine.***

8. Remove (& retain) the three fasteners shown in the base of the air-filter assembly.
9. Remove (& retain) the lower section of the air-filter assembly, ensuring that all the air-filter assembly components are retained for re-fitment.

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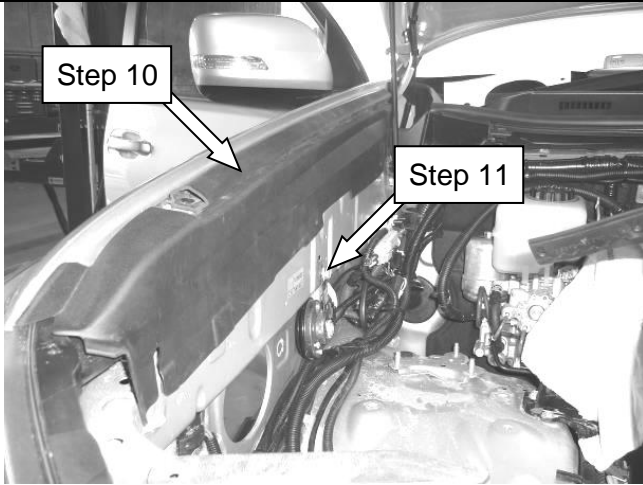
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10. Remove (& retain) the side fire-wall plastic panel by removing the securing clips.

11. Remove the horn and lay it to one side.



12. Remove (& retain) the mud-flap, retaining all the fasteners.



13. Remove the plastic inner guard, retaining all fasteners. Three clips are accessed via the engine bay and the remainder are accessed via the guard cavity.

***Step 14 applies if fitting an Airtec Snorkel to a 3L diesel engine.***

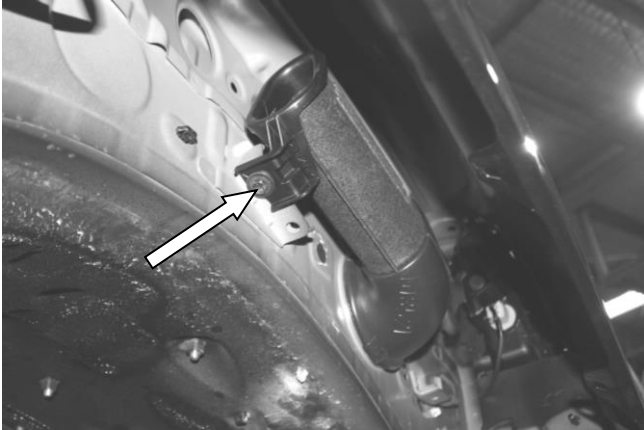
14. Remove (& discard) the O.E. intake tubing located on the inside of the guard cavity.

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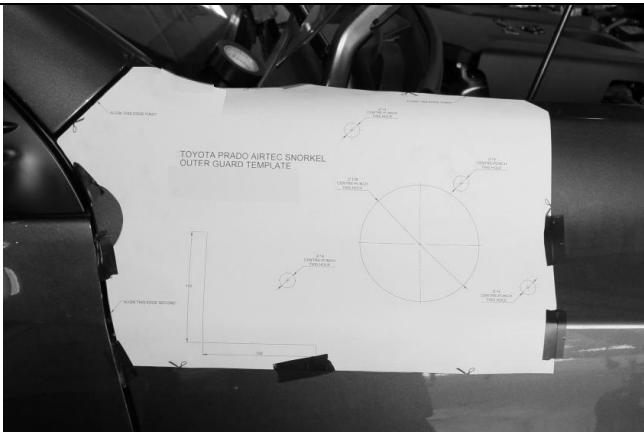
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**Step 15 applies if fitting an Airtec Snorkel to a 2.8L diesel engine.**

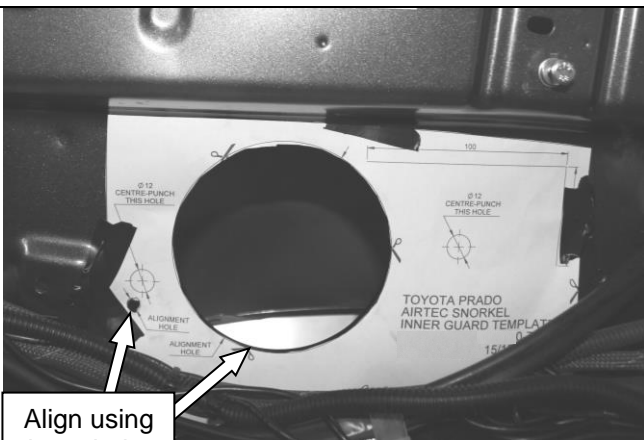
15. Remove (& retain) the O.E. intake tubing to be used in step 25.



16. Trim the outer guard template to shape.  
17. Accurately align the template with the rear and top edges of the outer guard and tape it in place.

18. Carefully centre-punch and pilot drill all holes.  
19. Drill the four stud holes out to 14mm, then using a 108mm hole saw, drill out the intake hole.

**Tip: Use a step drill to drill the stud holes out to 14mm.**



20. Trim the inner guard template to shape.  
21. Accurately align the indicated holes with the holes in the fire wall and tape it in place.

**Tip: Use a M6 fastener to assist in aligning the small hole.**

22. Carefully centre-punch and pilot drill the two holes. Then drill the holes out to 12mm.  
23. Deburr all holes and edges, clean any swarf from the areas and apply rust preventative to all exposed surfaces.

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Vehicle:

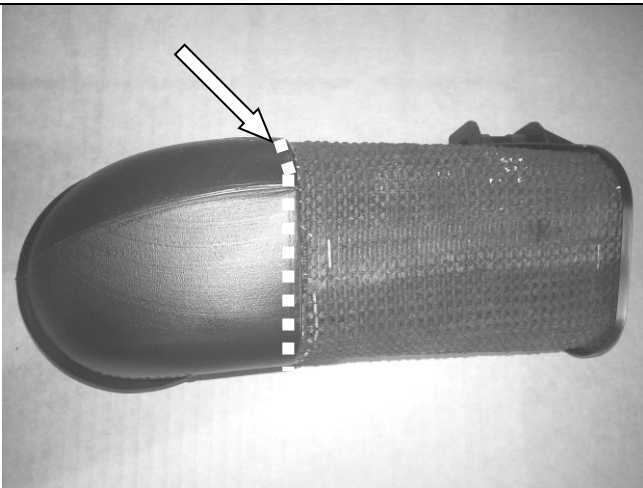
Toyota Prado 150 Series

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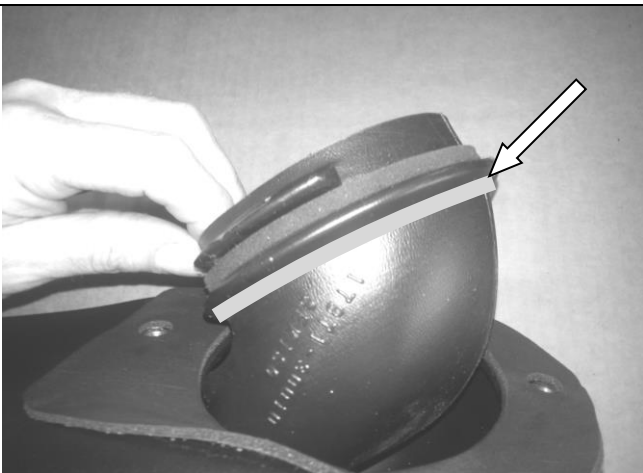


24. Using the hole pattern as a guide, affix the gasket to the airbox end of the intermediate tube.



***Steps 25 & 26 apply if fitting an Airtec Snorkel to a 2.8L diesel engine.***

25. Cut the O.E. intake tubing along the indicated line.



26. Apply neutral cure silicon to the outside of the modified O.E. intake tubing as shown and insert it into the intermediate tube.

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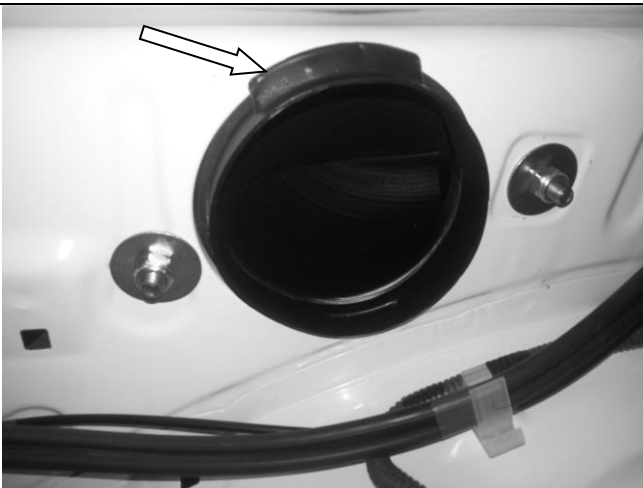
Toyota Prado 150 Series

Part No.

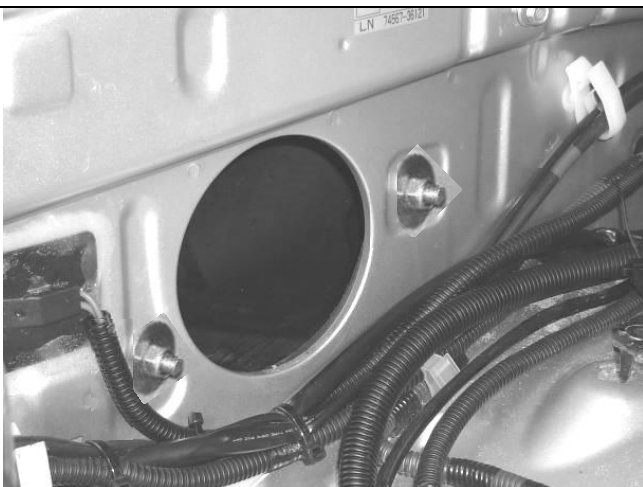
011SAT0188L



27. Ensure the hose clamp is positioned on the snorkel body end of the intermediate tube.
28. Position the intermediate tube in place in the wheel arch.



***If fitting an Airtec Snorkel to a 2.8L diesel engine, ensure that the O.E. intake tubing is seated correctly in the inner guard as shown.***



29. Apply Loctite to the M8 x 1.25 x 30mm studs (2) and secure them into the intermediate tube.
30. Loosely fasten the intermediate tube using M8 mudguard washers (2) & M8 nyloc nuts (2) over the studs in the intermediate tube.

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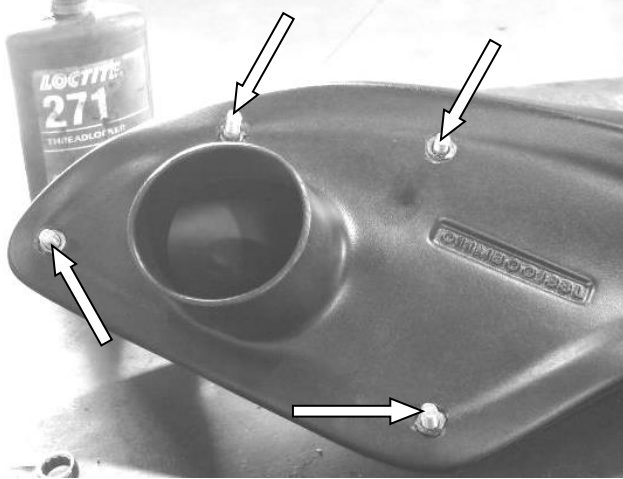
Airtec Snorkel

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31. Apply Loctite to the M8 x 1.25 x 30mm studs (4) and secure them into the snorkel body.
32. Using the studs as a guide, affix the snorkel body gasket to the snorkel body.
33. Secure the door pillar bracket to the top of the snorkel body using M8 x 1.25 x 16mm bolt (1), M8 spring washer (1) & M8 x Ø19mm flat washer (1).



34. Apply masking tape to the RHS A pillar to avoid damaging the vehicle when positioning the snorkel body on the outer guard.
35. Using the snorkel body studs and the intermediate tube as a guide, temporarily position the snorkel body on the outer guard.

**Tip: Locate the forward most stud in the outer guard first, then locate the remaining studs.**



36. Position the bottom edge of the door pillar bracket approximately 10mm above the inner surface of the A pillar as shown.

**Note: Ensure the contour of the A pillar and the bottom edge of the door pillar bracket are aligned.**



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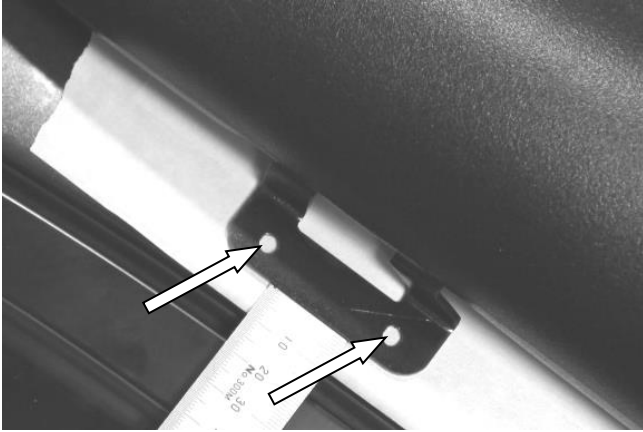
**Airtec Snorkel**

**Vehicle:**

**Toyota Prado 150 Series**

Part No.

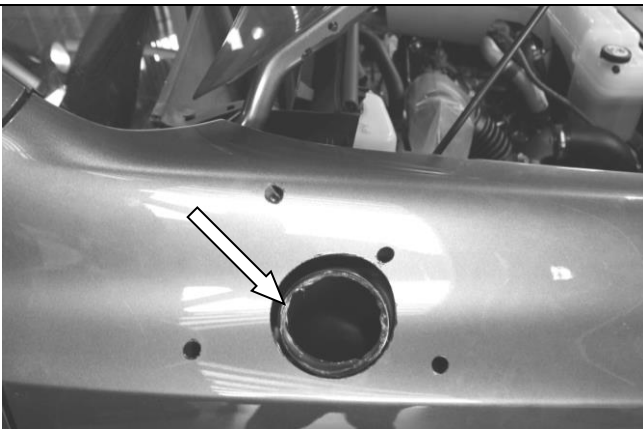
011SAT0188L



37. Use the door pillar bracket as a template and mark the two hole positions on the A pillar.
38. Remove the snorkel body from the vehicle.
39. Centre-punch and drill 4mm pilot holes at the positions marked.
40. Drill these two holes out to 8mm.



41. Deburr the holes, clean any swarf from the area and apply rust preventative to all exposed surfaces.
42. Carefully apply neutral cure silicone to the 8mm holes and insert the nylon plugs.



43. Apply neutral cure silicone along the inside edge of the intermediate tube shown.
44. Position the snorkel body on the outer guard.
45. Secure the door pillar bracket to the vehicle using 3/4" x 8G stainless PK screws (2).

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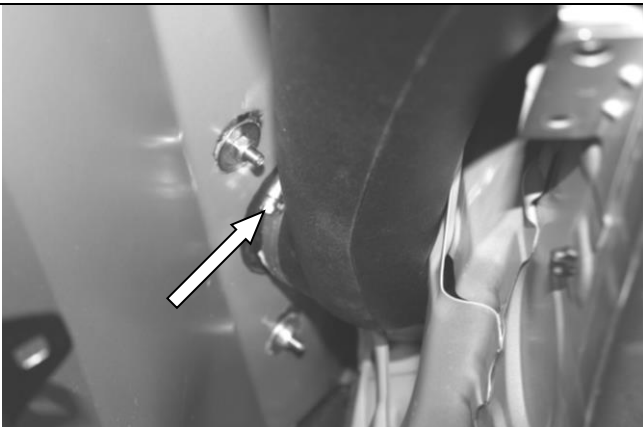
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46. Secure the snorkel body to the outer guard using M8 mudguard washers (4) and M8 nyloc nuts (4).

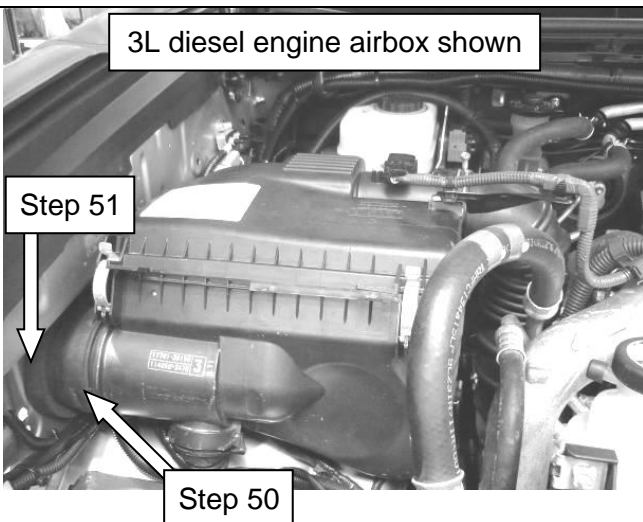
**Note: The top stud shown is accessed through the engine bay. The remaining studs can be accessed through the guard cavity.**

47. Tighten the fasteners securing the intermediate tube to the inner guard.



48. Tighten the hose clamp ensuring it remains in position on the intermediate tube.

49. Refit the horn removed in step 11, ensuring that it does not contact the fastener securing the intermediate tube.



**Steps 50 to 52 apply if fitting an Airtec Snorkel to a 3L diesel engine.**

50. Remove the O.E. airbox connector, apply neutral cure silicon to the mating surfaces and refit it to the airbox.

51. Apply neutral cure silicon to the mating surfaces of the O.E. airbox connector and the inner guard.

52. Refit the airbox using the fasteners retained in step 6.

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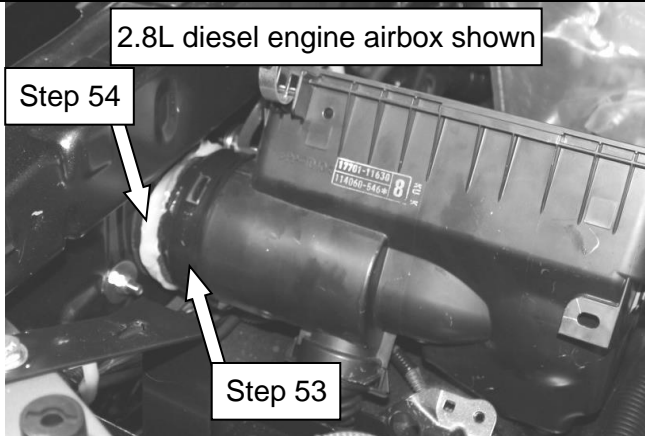
Airtec Snorkel

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***Steps 53 to 55 apply if fitting an Airtec Snorkel to a 2.8L diesel engine.***

53. Remove the O.E. airbox connector, apply neutral cure silicon to the mating surfaces and refit it to the airbox.
54. Apply neutral cure silicon to the mating surfaces of the O.E. airbox connector and the intake tubing.
55. Refit the airbox using the fasteners retained in step 8.



56. Refit the air filter and airbox lid.
57. Re-connect the air-flow sensor and intake hose to the air filter assembly.
58. Re-fit the side fire-wall plastic panel.



59. Refit the plastic inner guard.
60. Refit the mudguard.
61. Check that all the fittings are secure, and all the fasteners are tensioned to the appropriate torque settings listed on page 1.
62. Ensure that, as a result of fitting the snorkel, no vehicle components are crushed or will chafe.

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