



# FITTING INSTRUCTIONS

**FITTING INSTRUCTIONS FOR AN AIRTEC SNORKEL TO SUIT TOYOTA LANDCRUISER 100 SERIES 3/98+ PETROL/DIESEL**

011SAT0180R

FTLC87 NOTE; DO NOT FIT SNORKEL TO A VEHICLE FITTED WITH LPG.

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**TO SUIT VEHICLE:** Toyota LandCruiser 100 Series 3/98+

**ENGINE:** Petrol/Diesel

**AIR CLEANER FORMAT:** Right hand side front corner

**SNORKEL POSITION:** Right hand side

**BEFORE COMMENCING FITTING, CHECK THE VEHICLE TO ENSURE THE AIR CLEANER CONFIGURATION IS AS SHOWN IN THE DIAGRAM.**

CHKD

APPD

REV FTLC87 D 30.09.05

<b>BOLT TENSIONS</b>	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

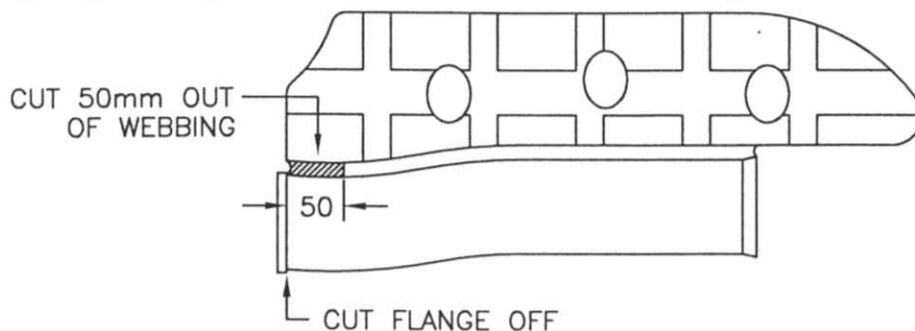


### WARRANTY

1. If any product or part of a product manufactured by TJM is found to be defective during a period of twelve (12) months after the date of purchase, TJM shall repair (at TJM's discretion) the defective product or part.
2. Any defect in a product distributed by TJM, but not manufactured by TJM, shall be dealt with in accordance with, and to the extent of, the warranty offered by the manufacturer of that product.
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5. Modification or alteration to any product manufactured by TJM to enable fitment in conjunction with other vehicle accessories or modifications (eg lift kits) will void any warranty claims.

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1. Remove the plastic inner guard from under the right hand side front wheel arch.
2. From under the right hand side guard remove the three bolts securing the air cleaner inner guard tube. Remove tube. Cut flange off bottom section of tube and 50mm out of the webbing joining the top and bottom sections of the inner guard tube as shown in the Diagram below.



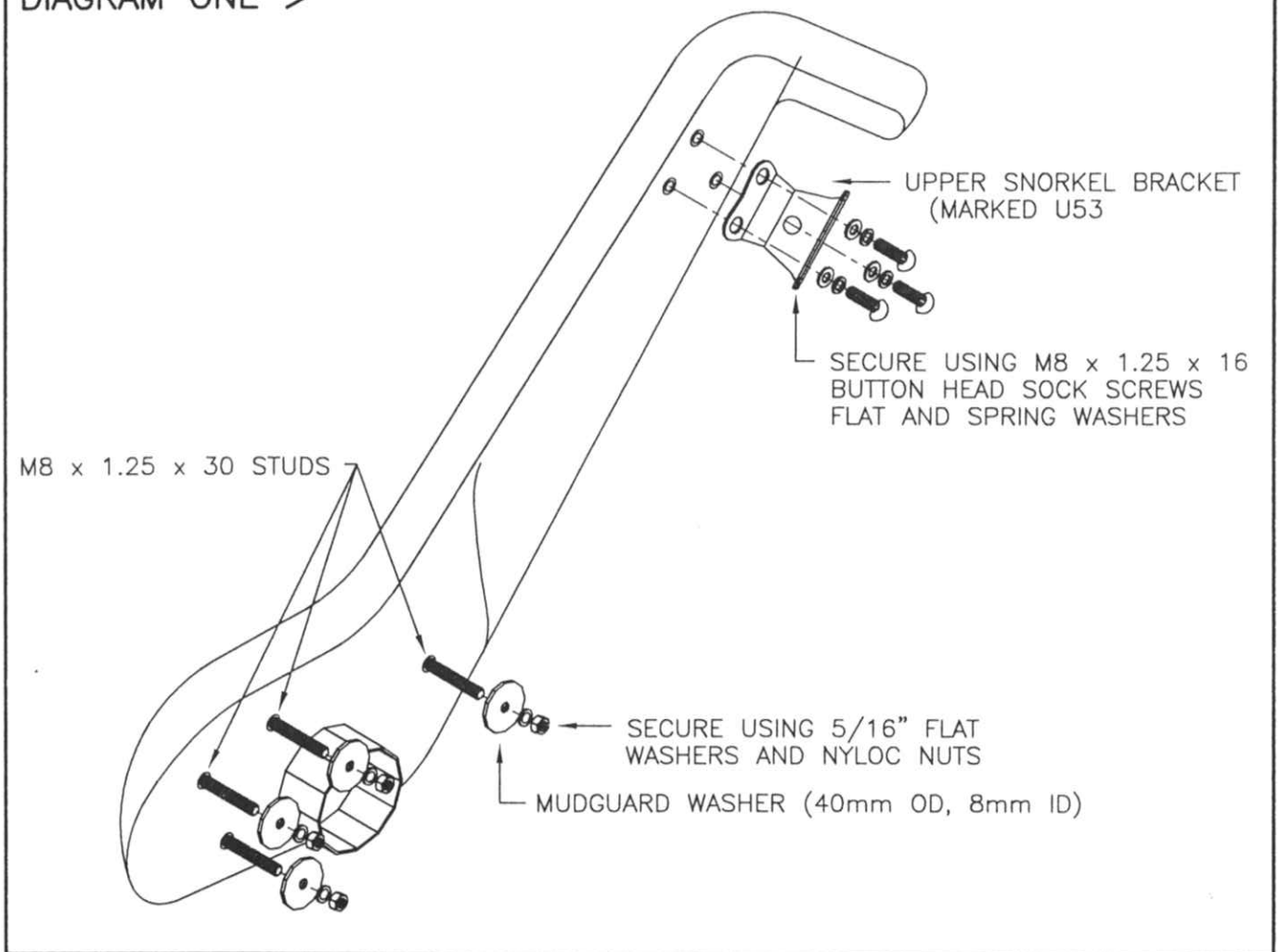
3. Place paper template over snorkel body to check that stud and hole positions match. Place paper template over right hand side guard and secure with masking tape. Using a pen or pencil mark hole centres. Centre punch holes. Drill  $\varnothing 3\text{mm}$  pilot holes for all five holes and slots. Drill the three slots for the rear studs out to  $\varnothing 12 \times 15\text{mm}$  and the one hole for the front stud out to  $\varnothing 12\text{mm}$ . Using a  $\varnothing 114\text{mm}$  hole saw drill out the large hole.
4. Firmly secure (but do not fully tighten) upper snorkel bracket (U53) to nutserts in top section of snorkel body using M8 x 1.25 x 16 button head socket screws with an allen key, flat and spring washers. Secure one M8 x 1.25 x 30 stud in the rear nutsert in the lower section of the snorkel body. Refer Diagram One.
5. Position intermediate tube supplied inside inner guard as shown in Diagram Three. Test fit snorkel body on guard sliding tube section at bottom of snorkel body into intermediate tube. With the snorkel body aligned on the vehicle mark the position of the two holes in the upper snorkel bracket on the rear face of the windscreen pillar. Remove snorkel from vehicle and centre punch the two holes previously marked. Drill two  $\varnothing 3\text{mm}$  holes. Fully tighten bolts securing upper snorkel bracket to snorkel body.
6. Debur all edges of the holes drilled in the windscreen pillar and guard using wet/dry sandpaper or a file. Wipe down and clean guard and windscreen pillar to remove all metal shavings and dust.
7. Paint all raw metal surfaces left after drilling and allow to dry.
8. From inside the engine bay remove the two bolts securing the original air cleaner adaptor tube (angled tube connected to air cleaner intake tube) to the right hand side engine bay wall. Retain bolts for refitment. Rotate the adaptor tube so the tube section points downwards as shown in Diagram Two.
9. To provide a totally sealed intake system it will be necessary to remove all under bonnet plumbing and provide a seal to all original equipment joints using urethane or neutral cure silicone.
10. Apply urethane or a neutral cure silicone inside the ends of both tube sections of the intermediate tube and to the outside of the original air cleaner adaptor tube. Refit snorkel body and intermediate tube to vehicle. Rotate the intermediate tube inside the inner guard so the tube section points downwards as shown in Diagram Two.
11. From inside the inner guard secure M8 x 1.25 x 30 studs into the front three nutserts in the lower section of the snorkel body. Secure the front three studs to the guard using the large  $\varnothing 40\text{mm}$  O.D. mudguard washers, flat washers and nyloc nuts.
12. Position the original intermediate tube inside the inner guard between snorkel intermediate tube and original air cleaner adaptor tube as shown in Diagram Three. Rotate all three up together sliding the tube sections into each other. Refer Diagram Two.
13. From inside the inner guard secure the rear stud to the guard using the large  $\varnothing 40\text{mm}$  O.D. mudguard washer, flat washer and nyloc nut.

14. From inside the engine bay secure the air cleaner adaptor tube to the engine bay wall using the original bolts.
15. Secure upper snorkel bracket (secured to snorkel body) to windscreen pillar using 3/4" x 8g countersunk stainless steel PK screws.
16. From inside the inner guard secure snorkel body to intermediate tube using the hose clamp supplied. Secure intermediate tube to original inner guard tube using the hose clamp supplied.
17. Replace the plastic inner guard under the right hand side front wheel arch.

**NOTES >**

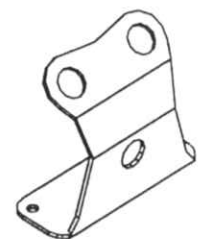
- \* It is important to check all joints are correctly sealed
- \* Thoroughly clean the vehicle around snorkel working area

**DIAGRAM ONE >**



**BOLT KIT >**

- 1 - Snorkel body (Part No. 011MB00180R)
- 1 - Intermediate Tube (Part No. 011IP00180R) + 052 & 072 hose clamps
- 1 - Upper Snorkel Bracket (marked U53)
- 3 - M8 x 1.25 x 16 stainless steel button head socket screws
- 4 - mudguard washers (40mm OD, 8mm ID)
- 4 - M8 x 1.25 x 30 studs
- 4 - M8 x 1.25 nyloc nuts
- 3 - 8mm I.D. stainless steel medium spring lock washers
- 3 - 8mm I.D. stainless steel flat washers
- 2 - 3/4" x 8g stainless steel PK countersunk screws (Discard plastic clips secured to screws for packaging)
- 1 - fitting instruction
- 1 - template



UPPER SNORKEL BRACKET  
(MARKED U53)

DIAGRAM TWO >

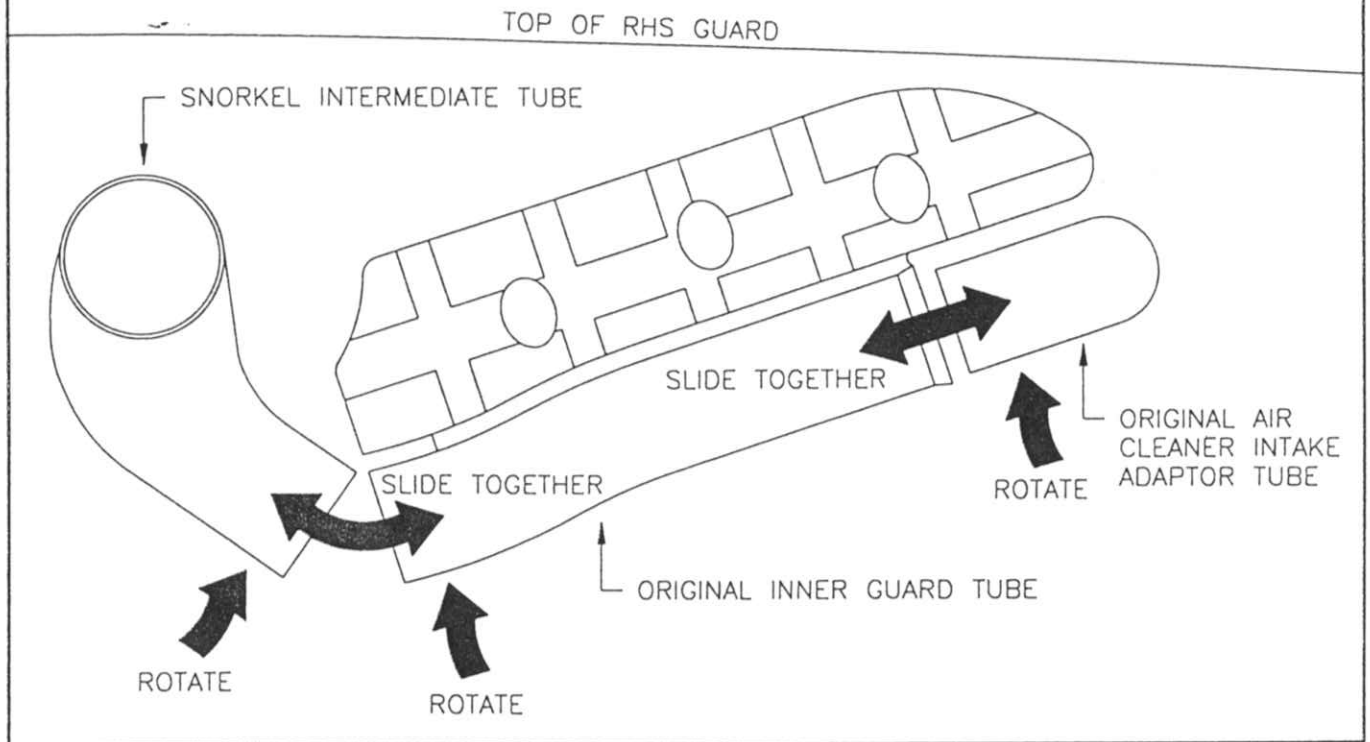


DIAGRAM THREE > SNORKEL FITMENT

