



# FITTING INSTRUCTIONS

**FITTING INSTRUCTIONS FOR AIRTEC SNORKEL TO SUIT NISSAN NAVARA 97+ D22 DIESEL/PETROL**

011SAT0109K

FNIS82

PAGE 1 OF 5

**TO SUIT VEHICLE:** Nissan Navara 97+ D22

**ENGINE:** Diesel/Petrol

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

**SNORKEL POSITION:** Left hand side.

**BEFORE COMMENCING FITTING, CHECK THE VEHICLE TO ENSURE THE AIRCLEANER CONFIGURATION IS AS SHOWN IN THE DIAGRAMS.**

CHKD

APPD

REV FNIS82 E 17.05.02


| <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     |

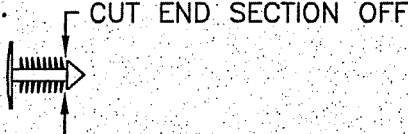


### WARRANTY

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.
3. TJM does not warrant that the products manufactured by it comply with the laws of the place where those products are purchased or used. It is the sole responsibility of the Purchaser to ascertain whether products being purchased - or the affixation of those products to any other object - comply with local laws.
4. Except to the extent described in this warranty, TJM shall not be liable for any other claim, including those claims arising from faulty design, the use of the product on any indirect special or consequential damage or injury to any person, company or other entity.
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.

o BRISBANE o SYDNEY o MELBOURNE o CANBERRA o ADELAIDE o PERTH o DARWIN o  
 o AYR o CAIRNS o CALOUNDRA o GOLD COAST o ORANGE o ROCKHAMPTON o TOWNSVILLE o

1. Check the model of the vehicle corresponds with the vehicle details in this instruction.
2. Jack up and support front left hand corner of vehicle. Remove left hand front wheel assembly, this will provide a clearer work area.
- ✓ 3. Remove plastic inner guard from left hand front wheel arch. The intermediate snorkel tube will be fitted into this void at a later stage.
- ✓ 4. From under the bonnet remove the three M6 bolts securing the air cleaner baffle. One bolt is located above the  $\varnothing 45\text{mm}$  air intake tube and one is located below. The third bolt is located at the rear of the wheel arch. Remove original air cleaner baffle tube from under wheel arch. Refer Diagram One.
5. Place paper template over snorkel body to check that stud and hole position match. This is done as a second check to ensure template and snorkel have been correctly packed and will avoid holes being misdrilled. Place paper template over guard and secure with masking tape. Mark hole centres. Drill the six rear stud mounting holes out to  $\varnothing 14\text{mm}$  and the front hole out to  $\varnothing 12\text{mm}$ . Use a  $\varnothing 86\text{mm}$  hole saw to drill out the inlet hole. 
6. Screw seven M8 x 1.25 x 30 studs into the nutserts in the main snorkel body using a Loctite compound. Test fit snorkel body on vehicle.
7. Secure upper snorkel bracket (N163) to snorkel using M8 x 1.25 x 16 button head socket screws with an allen key, flat and spring washers. Remove rubber door seal that runs along the windscreen pillar. With snorkel aligned on vehicle mark holes centres on windscreen pillar for two holes in snorkel bracket. Remove snorkel and drill two  $\varnothing 3\text{mm}$  pilot holes. Deburr all edges and apply paint or a rust preventative to all raw metal surfaces, including the  $\varnothing 86\text{mm}$  hole previously drilled. Allow to dry. Fit bracket using two  $3/4"$  stainless steel PK screws. Refit rubber door seal.
8. Apply neutral cure silicon or urethane to outside of  $1-3/4"$  blanking plug supplied and fit inside air cleaner intake tube. Secure using  $3/4" \times 8\text{g}$  PK screw. Refer Diagram Two.
9. Remove the front left hand indicator assembly.
10. From inside the engine bay locate the front  $\varnothing 7\text{mm}$  hole on the left hand side engine bay wall used to secure the plastic clip holding the wiring harness. Remove the plastic clip from the hole, allowing the wire to hang loosely. Resecure this wiring harness to the washer tube using the three 152mm cable ties supplied. From the underside of the guard, locate the clip holding the indicator wiring harness. Remove the clip from this position and relocate the clip to the  $\varnothing 7\text{mm}$  hole that was left free from the engine bay harness relocation. Refer Diagram One.
11. Remove the precleaner adaptor tube (tube running from precleaner to left hand side engine bay wall) by removing three plastic clips securing adaptor tube to engine bay wall. The clips are removed by rotating  $90^\circ$  and pulling out.
12. To provide a totally sealed intake system it will be necessary to remove all other under bonnet air cleaner plumbing and provide a seal to all original equipment joints using neutral cure silicon or urethane.
13. Apply neutral cure silicon or urethane to the flange and to the inside of the other end of the previously removed precleaner adaptor tube. Refit adaptor tube to precleaner and secure to left hand side engine bay wall using the three plastic christmas tree clips supplied from inside the inner guard. Refer Diagram Three. To aide the fitting of these christmas tree clips it may be necessary to use side cutters to remove the end section of the clips as shown in the diagram below.



14. Loosely locate the hose clamp to the intermediate snorkel tube and position inside the inner guard as shown in Diagram Three. Ensure the foam sealing ring is attached to the intermediate tube to provide a seal around the engine bay wall and precleaner adaptor tube and the M8 x 1.25 x 20 stud is screwed into the nutsert.

DIAGRAM ONE > REMOVING AIR CLEANER BAFFLE

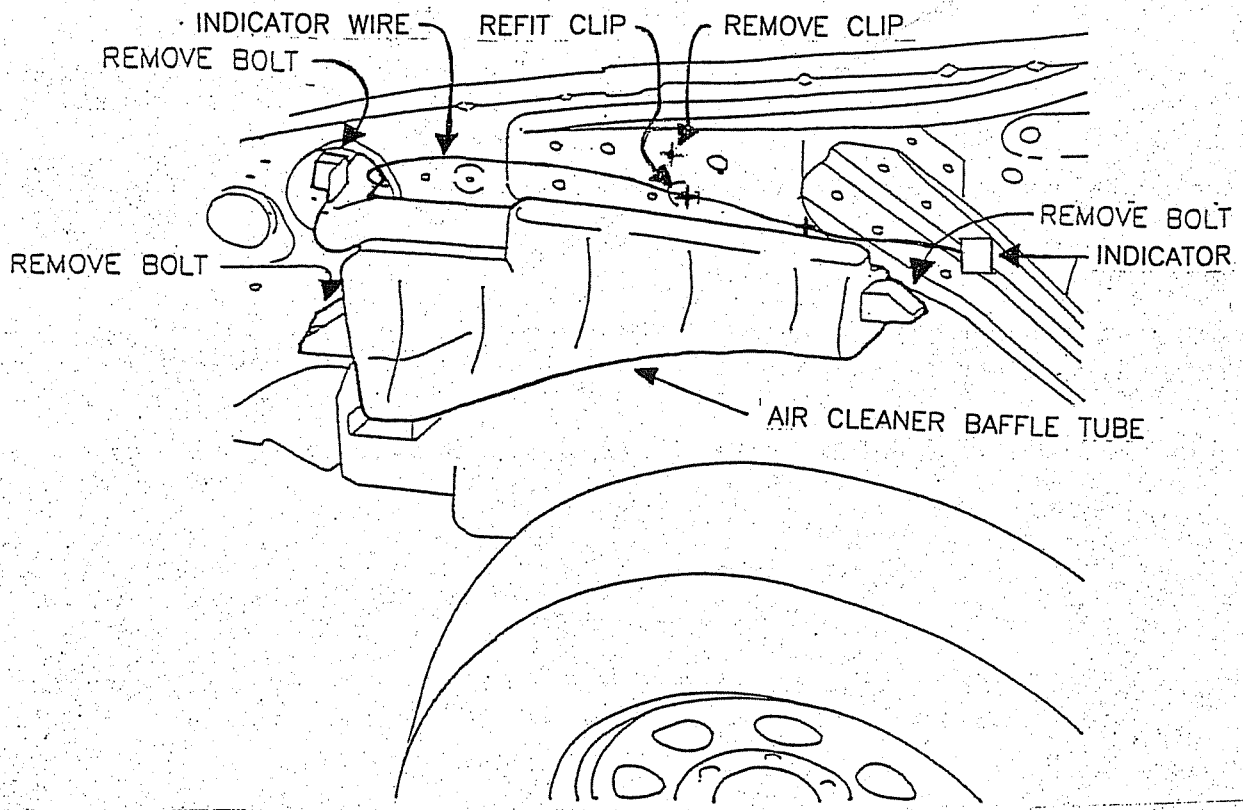
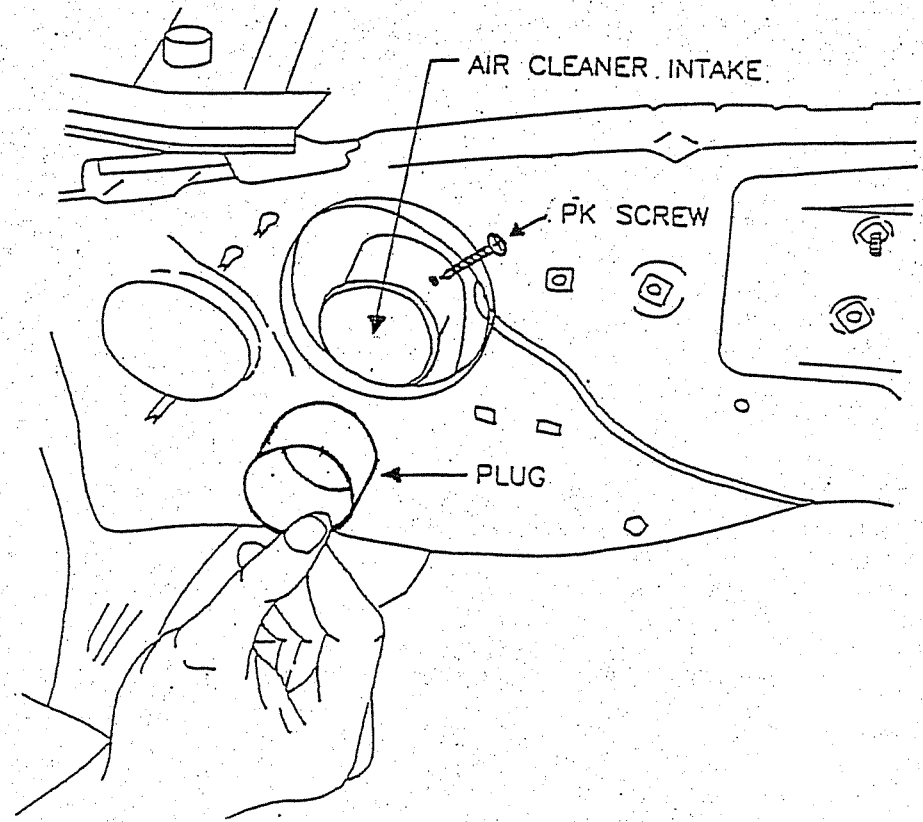


DIAGRAM TWO > PLUGGING AIR CLEANER INTAKE



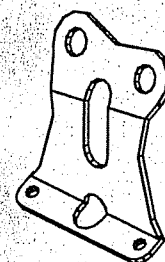
15. From inside the engine bay secure the intermediate tube to the left hand side engine bay wall using a M8 x 1.25 nut, flat and spring washer to the stud fitted through the existing hole in the wall.
16. On the left hand side indicator, locate the plastic connector plug which is mounted on the indicator housing as shown in Diagram Four. Pull the connector plug off its mount allowing it to hang loosely.
17. Secure the indicator wire through the portion of a-hole exposed on the steel panels inside the front of the inner guard where the indicator is housed using the cable tie supplied as shown in Diagram Five. The indicator wire should be secured just behind the plastic connector plug. Refit indicator.
18. Apply neutral cure silicon or urethane inside the tube section at the rear of the intermediate tube and to the outside of the tube section at the bottom of the snorkel body. Slide together locating the snorkel body on the vehicle and secure using the hose clamp supplied.
19. From the underside of the guard secure the snorkel body to the guard using four  $\varnothing$ 40mm O.D. mudguard washers, flat and spring washers and nuts onto the three upper studs and one bottom rear stud. NOTE: Access to the two rear studs is gained from behind the inner guard brace. Secure the two bottom front studs to guard using the inner guard support bracket (N179), flat and spring washers and nuts. Ensure the inner guard support bracket is positioned so the 'V' points towards the inside of the vehicle as shown in Diagram Three. Secure the front stud to the guard using  $\varnothing$ 24mm O.D. flat and spring washer and nut.
20. Secure snorkel body to upper snorkel bracket (previously secured to windscreen pillar) using M8 x 1.25 x 16 button head socket screws, flat and spring washers.
21. Replace plastic inner guard under front left hand side wheel arch.
22. Replace front left hand wheel assembly and lower vehicle to floor.
23. Fit air ram to snorkel body and fasten with the hose clamp provided

**NOTES >**

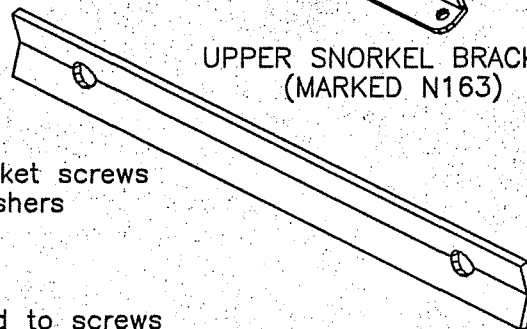
- \* It is important to check all joints are correctly sealed.
- \* Thoroughly clean the vehicle around snorkel work area.

**BOLT KIT >**

- 1 - Snorkel Body (Part No. 011MB00I09K)
- 1 - Intermediate Snorkel Tube (Part No. 0111P00I09K)(fitted with foam sealing ring)
- 1 - Snorkel Air Ram (Part No. 011AIR0297T)
- 1 - Air cleaner intake plug
- 1 - Upper Snorkel bracket (marked N163)
- 1 - Inner Guard Support Bracket (stamped N179)
- 4 - mudguard washers (8mm I.D., 40mm O.D.)
- 1 -  $\varnothing$ 48 stainless steel hose clamp
- 1 -  $\varnothing$ 52 stainless steel hose clamp
- 7 - M8 x 1.25 x 30 studs
- 1 - M8 x 1.25 nuts
- 1 - M8 x 1.25 x 20 stud
- 2 - M8 x 1.25 x 16 stainless steel button head socket screws
- 3 - 8mm I.D. stainless steel medium spring lock washers
- 6 - 8mm stainless steel flat washers
- 3 - black plastic christmas tree clips
- 4 - 152mm cable tie
- 2 - 3/4" x 8g PK screws (discard plastic clips fitted to screws in upper snorkel bracket for packaging)
- 1 - M8 nyloc nut
- 1 - Fitting Instruction
- 1 - Template
- 1 - 10g PK screw



UPPER SNORKEL BRACKET  
(MARKED N163)



INNER GUARD SUPPORT  
BRACKET (STAMPED N179)

DIAGRAM THREE >

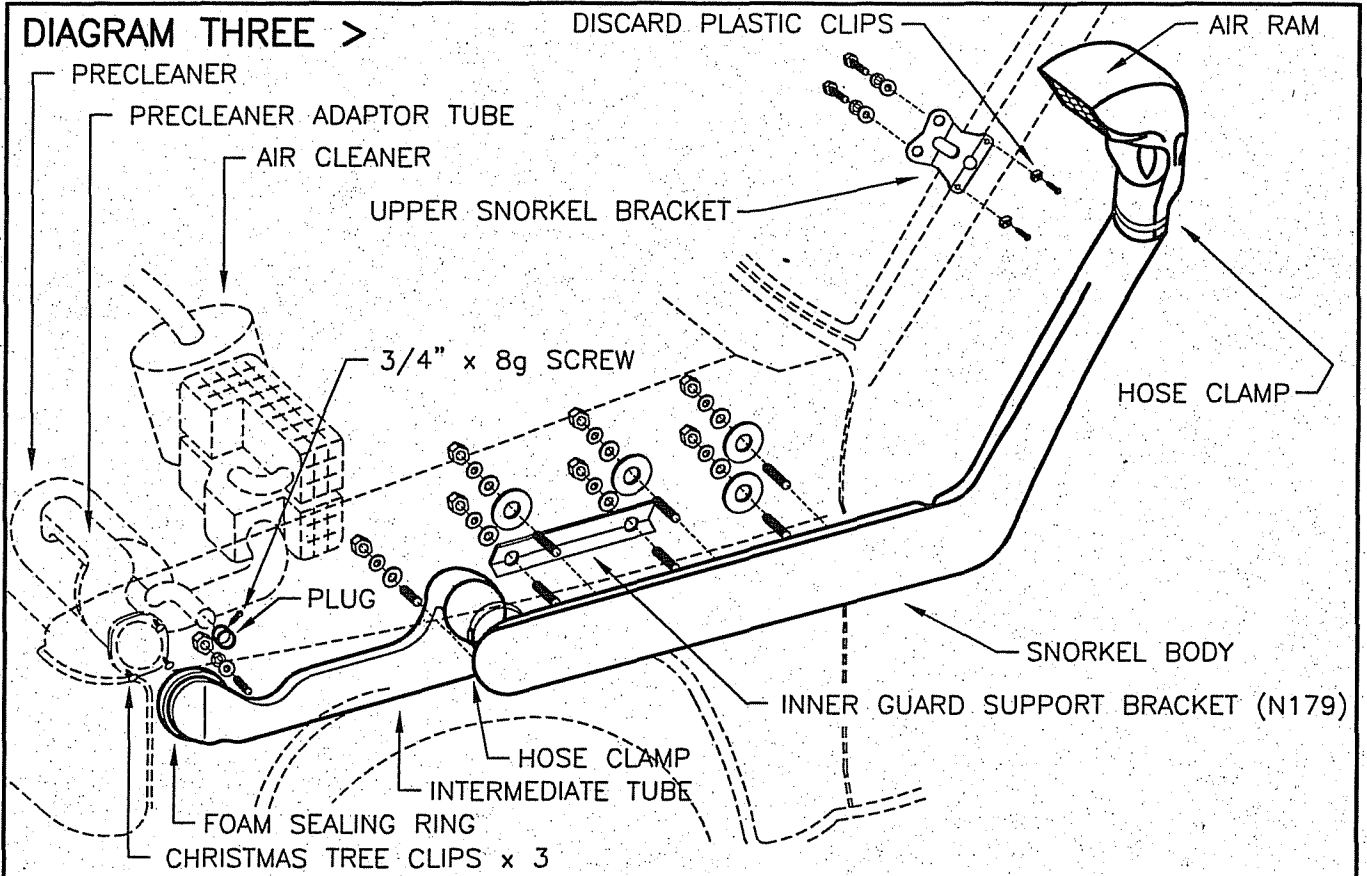


DIAGRAM FOUR > DISMOUNTING PLASTIC CONNECTOR PLUG

REMOVE PLASTIC CLIP CONNECTING  
INDICATOR WIRES FROM MOUNTING BRACKET

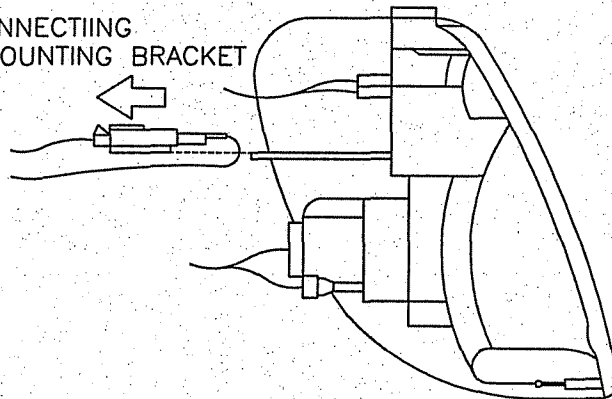
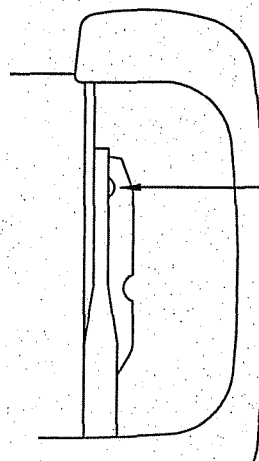


DIAGRAM FIVE > SECURING INDICATOR WIRE



SECURE INDICATOR WIRE THROUGH  
HOLE USING CABLE TIE