

INSTALLATION GUIDE



Nissan Patrol GQ/Y60 4.2l/3.0l Petrol 4.2l Diesel (vertical Pre Cleaner) SN45-3338



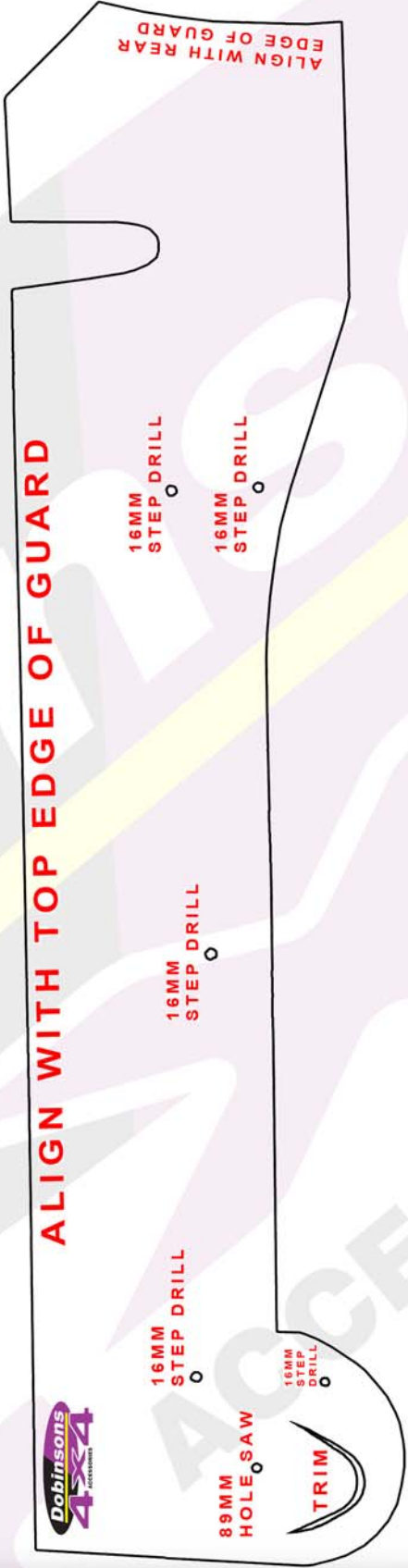
This Snorkel will take approximately 2.5 hours to install and is installed to the Left Hand Side of the vehicle.

Tools required are:

- 89mm hole saw
- Step Drill, drill bits and drill
- Masking Tape
- Sensor safe Sealant (Sikaflex 227 Recommended)
- Touch up Paint and small brush or cotton bud
- Allen keys & Spanners
- Pop rivet gun
- Small Square file
- Screw Drivers
- Centre Punch and Hammer
- Angle grinder

Dobinsons 4x4 Snorkels should only be installed by a qualified technician. It is the installer's responsibility to ensure all bare metal is suitably rust proofed and all connections are water tight and sealed only with a "SENSOR SAFE" type sealant (Sikaflex 227 Recommended). Fully read and understand the instructions before beginning the installation.

TEMPLATE OUTLAY



Fitting Guide

1. Remove the LH plastic inner wheel arch guard.
2. Remove the patrol badge if equipped.
3. Remove the metal plate on the inside of the guard by drilling out the spot-welds (if fitted).
4. Apply masking tape to the LH quarter panel, it is a good idea to cover the whole panel so you do not scratch it when working around it.
5. Check the template against the snorkel body. Align the template on the vehicle as seen in picture on page 2, and tape it down and double check again.
6. Once you are happy with the alignment of the template centre punch the 6 holes.
7. Drill the 6 holes with a small pilot drill.
8. Using the step drill, drill the 5 stud holes out to 16mm to clear the studs to ensure the studs clear the body. Using an 89mm hole saw on low speed drill the other hole to clear the snorkel body, making sure you drill the hole horizontally as the guard is stepped.
9. Using a pneumatic hacksaw trim away the section below the 89mm hole for clearance of the snorkel body outlet. Take small amounts away each time
10. Remove the burrs from all holes with file or de-burrer.
11. Fit the upper snorkel body mount to the snorkel with the bolts supplied. **DO NOT** over tighten
12. Fit the 5 stainless studs supplied to the snorkel body with thread lock and tighten with Allen key, **DO NOT** over-tighten.
13. Put some masking tape on the A-Pillar approximately where the upper bracket will mount.
14. Test fit the snorkel body carefully and fit the nyloc nuts and washers loosely. Mark the top mounting bracket holes, remove the snorkel and centre punch.
15. Pilot drill the holes, and then drill to 6mm. It is a good idea when doing this to drill through a block of wood or equivalent spacer so that only about 5mm of the drill

tip sticks out so you do not drill through your interior or air bags. If you are using pop rivets to attach the bracket drill the holes to suit the rivets.



16. Using the square file, file the holes square to suit the 6mm plastic clips. (As show above on a different vehicle, if using clips).
17. Remove the burrs from these holes, remove masking tape, paint all bare metal surfaces including the holes drilled in the quarter panel, and remove all metal fillings from the A-Pillar gutter and quarter panel.
18. Fit the plastic screw clips to the A-Pillar mounting holes.
19. Fit the snorkel body to the quarter panel and on each stud put a large flat washer supplied and a nyloc nut and do up finger tight.
20. Using the screws supplied, screw the top bracket into the plastic screw clips. **DO NOT OVER TIGHTEN.**



Fitting Guide

21. Tighten the nyloc nuts on the stud.
22. A). For NISSAN PATROL / FORD MAVERICK TD-42 DIESEL (4.2L) with vertical pre-cleaner 1990 – 94
23. Remove the pre cleaner and on the bottom drill out the mounting holes to about 12mm.
24. Using the sikaflex 227 seal the plastic base to the metal using sealant, and seal all other areas required to make a waterproof unit.
25. Apply a bead of sealant around the inside of each end of the rubber joining hose and slide the rubber joining hose supplied onto the snorkel body outlet in the guard.
26. Loosely fit the 2 hose clamps supplied onto the joining hose. Install the metal adaptor supplied into the inner guard so that it passes through the guard and slides onto the rubber joining hose previously installed and tighten hose clamps.
27. Bolt into position using the existing holes. Apply a thick bead of sealant around the face of the metal adaptor and re-install the pre-cleaner assembly to provide a waterproof join. Go to step 34.
28. B). For NISSAN PATROL / FORD MAVERICK TB-42 & RB30 Petrol models
29. Remove the plastic clip located on the flat section of the air ducting hose.
30. Sit the entry part of the air ducting onto the metal adaptor, you will see that 2 holes line up ok, the third hole needs to be drilled. Mark these holes and then drill to 8mm.
31. Using the sikaflex 227 apply a bead of sealant around the inside of each end of the rubber joining hose supplied.
32. Slide the rubber joining hose supplied onto the snorkel body outlet in the guard.
33. Loosely fit the 2 hose clamps supplied onto the joining hose. Install the metal adaptor supplied into the inner guard so that it passes through the guard and slides

onto the rubber joining hose previously installed and tighten hose clamps.



34. Apply a thick bead of sealant around the face of the metal adaptor and bolt this and the air ducting hose into position using the existing holes.
35. Fit your Dobinsons 4x4 Ram Head to the top of the snorkel with the black hose clamp supplied
36. Refit the inner guard and ensure all bolts removed, and clamps are tight
37. Allow the sealant to cure before running the vehicle.



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