



# INSTALLATION GUIDE

## ISNORKELO13

NISSAN PATROL GU

Series 4, 4.8L EFI (TB48), ZD30 (DDTi) & TD42(Ti)



- Ironman 4x4 Snorkel fits to the left hand side of the Nissan Patrol GU.
- It will take about 3 hours to install.
- Below is a list of some required tools for installing your Ironman 4x4 Snorkel:
  - **Hole Saw (95mm & 108mm)**
  - **Step Drill**

**NOTE: Only use "sensor safe" sealant during installation**

**IMPORTANT:** Snorkel installations should only be done by a qualified person and it is the responsibility of this person to ensure correct fitment and to ensure the installation is water tight.

1. Before installation check snorkel application is compatible with your vehicle.

2. Remove air cleaner assembly, left hand front mudguard liner, left hand front headlight/indicator assembly, aerial, air cleaner intake (mounted to inner guard where fitted), radiator overflow bottle (4.8L Only).



3. Remove air entry duct from between inner and outer mudguards by removing 5 x 6mm bolts and levering away from inner guard to break away adhesive.



4. Tape template to mudguard making sure it is lined up with top of mudguard (bonnet opening) and rear of mudguard (door opening).



5. Using a felt tipped pen, mark all holes through template onto mudguard. Remove template.



6. Using a 108mm holesaw cut hole for snorkel duct and drill stud mounting holes to 16mm.



7. De-burr and rust-proof all holes (this applies to all holes drilled after this step).

8. Using thread-lock screw all studs into snorkel body and attached pillar mounting bracket to snorkel using M6 bolts provided.

9. Hold snorkel body in position, mark three holes through mounting bracket on windscreen pillar, remove snorkel and drill to 7.5mm.



10. Apply silicone sealant to holes and insert mounting plugs.

# TD42Ti & TB48 ONLY

11. From engine bay using a 95mm holesaw cut internal panel through air entry hole for air cleaner. When cutting this hole a piece of timber can be placed between outside mudguard and internal panel to prevent damage to outer mudguard.



12. Flatten approx. 35mm of raised edge of diagonal brace.

13. Place drilling template on mounting flange of connecting elbow, mark and drill holes to 6.5mm.



14. Place remaining template on air cleaner flange and mark sections to be removed to allow it to seal against connecting elbow.



15. Place air entry duct in place under mudguard and apply a liberal amount of silicone sealant to snorkel connection.
16. Install snorkel body to vehicle using M8 Nylock Nuts and Bodywashers provided making sure snorkel outlet engages with air entry duct. Secure pillar mounting bracket to pillar using self tapping screws provided.



# ALL MODELS

17. Slide connecting hose onto end of air entry duct with two hose clamps provided.



18. Fit elbow from engine bay through inner guard and connect to air entry duct with connection hose. Secure elbow flange to inner guard with M6 Bolts and tighten hose clamps.



19. Secure air entry duct to snorkel with self tapping screw provided.



## ZD30 & TD42Ti ONLY

20. Enlarge mounting holes for air cleaner to 11mm and remove foam seal from air cleaner flange.



## ALL MODELS

21. Apply a liberal amount of silicone sealant to elbow mounting flange and refit air cleaner making sure air cleaner has a water tight seal to mounting flange.



22. Check all hose connections for potential leaks and seal as required.

23. Reinstall aerial, guard liner, headlights/ indicator assembly and radiator overflow bottle (4.8L).

24. Fit Ironman 4x4 Air Ram and secure with hose clamp provided.

