



# INSTALLATION GUIDE

## ISNORKELO19

NISSAN D40 NAVARA / R51 PATHFINDER (Except Single Cab)  
4.0L Petrol & Diesel YD25DDTi Engines



- Ironman 4x4 Snorkel fits to the left hand side of the Nissan Navara & Pathfinder.
- It will take about 2 hours to install.
- Below is a list of some required tools for installing your Ironman 4x4 Snorkel:
  - **Hole Saw (102mm)**
  - **Step Drill**
  - **Drill (8mm & 16mm)**
  - **Spanner (13mm)**

**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.

# IMPORTANT

D40 Navara's are fitted with four different styles of air box. Parts are supplied with the snorkel to fit all of these air boxes. You will have parts left over depending on your application. When installing the snorkel, refer to the relevant instructions for your vehicle.

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

2. Remove left hand front mudguard liner, air box and foam vibration dampeners form between inner and outer mudguards.



3. Apply masking tape to left hand mudguard and windscreen pillar.

Tape template to mudguard making sure it is lined up with top of mudguard (Bonnet opening) and rear of mudguard (Door opening).

Note: Push template into mud gaurd recess as shown.



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



5. Drill all stud mounting holes to 16mm. Using a 102mm holes saw, cut hole for air entry duct.



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

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

8. Hold snorkel body in position on mudguard and mark position of pillar mounting bracket on pillar and remove snorkel.



9. Hold mounting bracket against pillar in position previously marked and mark three mounting holes and drill to 7.5mm.



10. Apply silicone sealant to holes, insert mounting plugs and attach mounting bracket to pillar using self tapping screws provided.



*NOTE: There are three different styles of Air Box, please refer to fitting instructions relevant to your model.*

*NOTE: For Petrol engines refer to steps 33 and onwards.*

## DIESEL ENGINE (AIR BOX A)

11. Remove boom box tube and air entry duct from air box.



12. Fit silicone hose to air box and refit to vehicle aligning the silicone hose with the hole in the inner guard and secure with hole clamp provided.



13. Fit inner guard duct under mudguard and connect to silicone hose (A large cable tie is supplied to secure duct to inner guard bracing).

Secure silicone hose to duct using hose clamp provided.



14. Apply a liberal amount of sealant to outside of snorkel outlet and inside of inner guard duct to ensure a water-tight seal.



15. Attach snorkel body to mudguard using M8 Nylock Nuts and Body Washers provided. Making sure snorkel outlet is engaged securely inside inner guard duct.



16. Secure inner guard duct to snorkel using self tapping screw provided and recheck connection to make sure duct is sealed properly.



17. Attach snorkel to pillar mounting bracket using M6 Bolts provided.

## DIESEL ENGINE (AIR BOX B)

18. Remove boom box tube and air entry duct from air box.



19. Cut round section off end of air entry duct as shown.



20. Apply a liberal bead of silicone sealant to inside of air entry hole in air box. Fit round section removed from round air entry duct in previous step to air entry hole flush with inside of air box and secure with self tapping screw.

Note: The section protruding on the outside of air box will allow for the silicone hose to be attached to the air box.



21. Seal hole in air box as shown.



22. Fit silicone hose to air box and refit to vehicle aligning the silicone hose with the hole in the inner guard and secure with hole clamp provided.



# DIESEL ENGINE (AIR BOX C)

23. Remove air box from engine bay.



24. Remove intake air duct from air box.



25. Install adaptor to air box. Make sure that cut out is aligned with air intake hole in air box then Pin in place with self tapping screw provided.



26. Attach air intake duct using rubber hose and clamps but do not tighten.





27. Refit air box to engine bay.. Align air intake duct with hole in inner guard and tighten rose clamps on rubber joiner.



28. Apply a liberal amount of silicone around joints and fit inner guard duct under mudguard and connect to air entry duct.
- Secure in place with self tapping screw provided.
- A cable tie is provided to secure duct in place.



29. Apply a liberal amount of sealant to outside of snorkel outlet and inside of inner guard duct to ensure a water-tight seal.



30. Attach snorkel body to mudguard using M8 Nylock Nuts and Body Washers provided. Making sure snorkel outlet is engaged securely inside inner guard duct.





31. Secure inner guard duct to snorkel using self tapping screw provided and recheck connection to make sure duct is sealed properly.



32. Attach snorkel to pillar mounting bracket using M6 Bolts provided.

***NOTE: To complete Snorkel fitting for Diesel engines refer to steps 41 onward.***

## PETROL ENGINE

33. Cut inner guard flange off air cleaner intake duct and remove remaining ribs to allow hose to fit over duct.



34. Apply a liberal amount of sealant around intake duct inside and outside of air box to create a water tight seal.



35. Fit inner guard duct under mudguard and secure to inner guard brace using cable tie supplied.



36. Apply a liberal amount of sealant to outside of snorkel outlet and inside of inner guard duct to ensure a water tight seal.



37. Attach snorkel body to mudguard using M8 Nylock Nut and body washers provided. Making sure snorkel outlet is engaged securely inside inner guard duct.



38. Attach snorkel to pillar mounting bracket using M6 Bolts.

39. Attach silicone joiner to inner guard duct inside engine bay and secure with hose clamp provided.



40. Refit air box engaging intake duct with silicone joiner and secure with hose clamp provided.



41. Check all hose connections and air box for potential air leaks and seal as required.

42. Reinstall mudguard liner.

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

