



# INSTALLATION GUIDE

## ISNORKELO05

TOYOTA LANDCRUISER PRADO 90 SERIES  
3.4L V6 Petrol (5VZ-FE Engine)



- Ironman 4x4 Snorkel fits to the right hand side of the Toyota Prado.
- It will take about 3 hours to install.
- Below is a list of some required tools for installing your Ironman 4x4 Snorkel:
  - **Hole Saw (83mm)**
  - **Step Drill**
  - **Air Hacksaw**
  - **Hammer**
  - **Drift**

**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 right hand front mudguard liner, air cleaner assembly and air intake ducts from under mudguard.



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



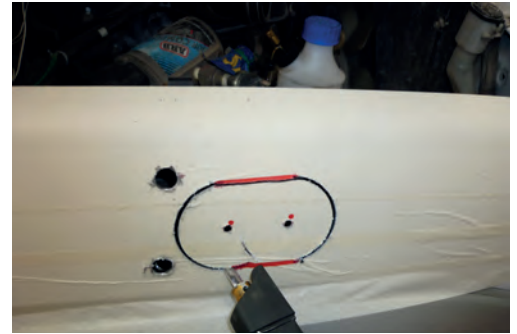
4. Tape template to mudguard making sure it is lined up with top of mudguard (bonnet opening) and rear of mudguard (door opening).



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



6. Using an 83mm holesaw cut two semi circles as shown. Mark straight lines between the top and bottom of the semi circles and cut along lines using an air hack saw.



7. Drill mounting holes to 16mm.



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

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

10. Using a hammer and drift bend lower section of inner mudguard brace in, to allow snorkel to be installed.





11. Hold snorkel body in position on mudguard and mark position of pillar mounting bracket onto pillar. Remove snorkel.



12. Remove pillar bracket from snorkel. Hold against pillar in position previously marked and mark mounting holes. Drill holes to 7.5mm.



13. Apply silicone, insert mounting plugs and attach bracket using self tapping screw provided.



14. Install snorkel body top vehicle using M8 Nylock Nuts and body washers and secure to pillar bracket.

15. Fit rubber joiner and two hose clamps to intake duct.



16. Insert intake duct from engine bay through hole in inner guard and attach to snorkel. Secure hose clamps.



17. Drill pop rivets for factory air cleaner intake duct and remove duct from air cleaner.



18. Apply a liberal amount of sealant to air entry hole in air cleaner. Refit air cleaner making sure air entry duct engages with air cleaner.



19. Secure duct to air cleaner with self tapping screw provided.



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

21. Re-fit guard liner.

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

