



INSTALLATION GUIDE

ISNORKEL003

TOYOTA LANDCRUISER 100/105 Series
1FZFE - 1HZ - 2UZFE Engines



- Ironman 4x4 Snorkel fits to the right hand side of the 100/105 Series Landcruiser.
- It will take about 2 hours to install.
- Below is a list of some required tools for installing your Ironman 4x4 Snorkel:
 - **Hole Saw (95mm)**
 - **Drill (8mm)**
 - **Step Drill**
 - **Spanner (13mm)**
 - **Air Hack Saw**

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 side indicator from mudguard.

3. Remove plastic clips from right hand wheel arch liner and detach from mudguard to allow access to air entry duct.



4. Remove plastic air entry duct.



5. Apply masking tape to top rear section of right hand mudguard and right hand windscreen pillar. Tape template to mudguard making sure template is lined up with top of mudguard (ie. Bonnet opening) and rear of mudguard (ie. Door opening).



7. Using a felt tipped pen, mark all holes and new location for side indicator.



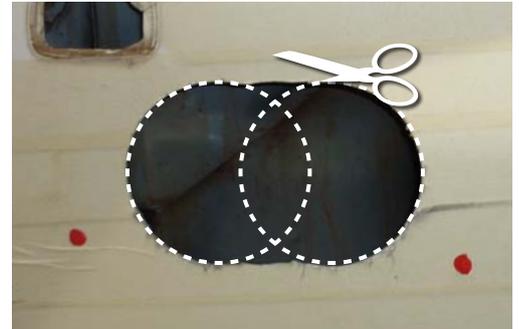
8a. Remove template. Using a 95mm hole saw cut two holes as marked

A



8b Using a air hack saw or similar cut a straight line between top and bottom of holes.

B



9. Drill three mounting holes to 16mm.



10. De-burr and rust-proof all holes (This applies to all holes or cutting after this step.)

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

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



13. Remove bracket from snorkel and hold against pillar in position previously marked and mark three mounting holes. Drill holes to 7.5mm.



14. Apply silicone sealant to holes. Insert mounting plugs and attach mounting to pillar using self-tapping screws provided.



- 15a. Drill a hole in centre of new side indicator location.

A



- 15b. Cut out using air hack saw or similar.

B



16. Using a air hack saw or similar, cut a 30mm slot between air entry duct and boom box as shown, to allow rubber joiner to be installed.



17. Install snorkel body to vehicle using M8 Nylock Nuts and body washers provided and attached to pillar bracket using M6 Bolts provided.



18. Attach rubber joiner to air entry duct and secure with hose clamp provided.



19. Remove foam seal from air box elbow under mudguard.



- 20a. Apply silicone sealant to inside of air entry duct to seal to air box elbow.



20b. Install duct between snorkel and elbow.
Secure hose clamps.



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

22. Re-install guard liner and side indicator.

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

