

# INSTALLATION GUIDE



## Toyota 4 Runner 5th Gen 4.0I V6 Gasoline

**SN59-3467**

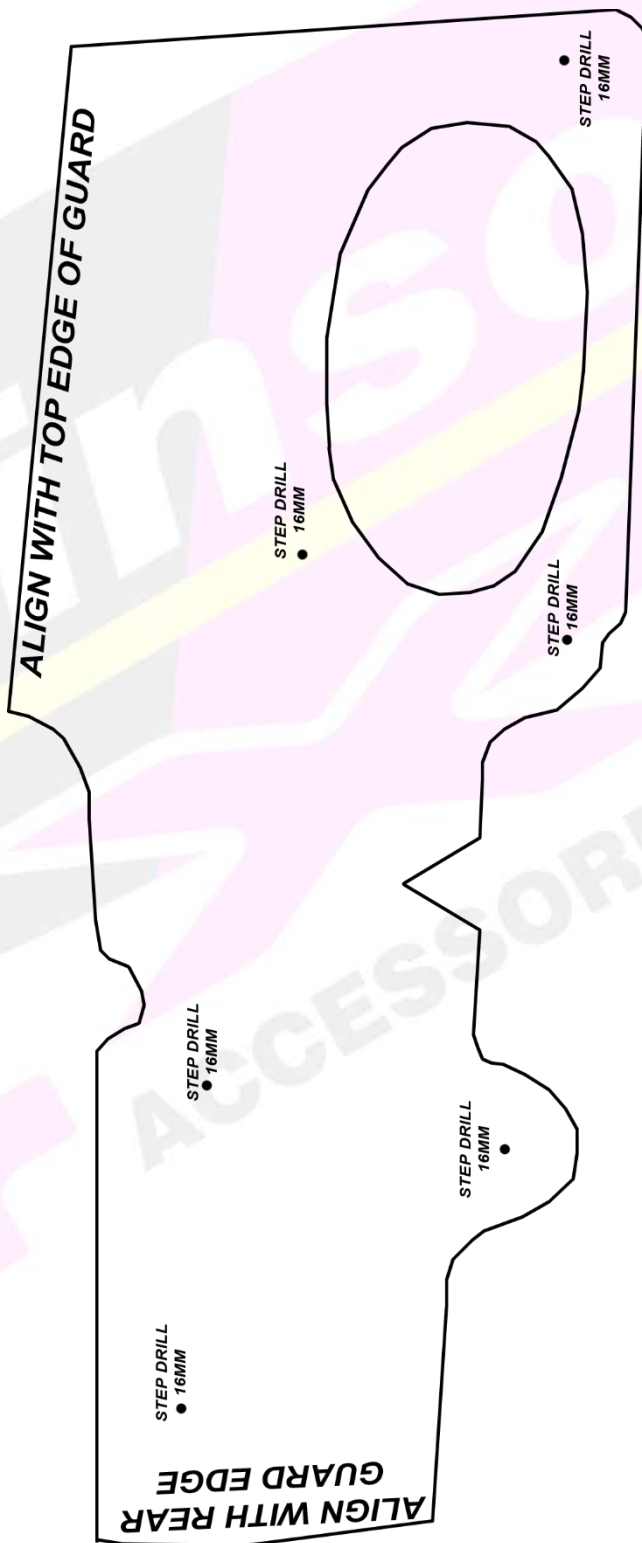


This Snorkel will take approximately 3 hours to install and is installed to the Right Hand Side of the vehicle.

Tools required are:

- Large Hole Saws (optional)
- 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
- Screw Drivers & torx bits
- Centre Punch and Hammer

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.





## Fitting Guide

1. Remove the RH Flare liner, mud flap and plastic wheel arch guard by removing the screws and clips on the guard edge and plastic clips inside the wheel arch. Take care when removing the flare liner as the plastic clips can be damaged easily.



2. Remove the air box lid and air filter.
3. Remove the airbox. Discard the entry to the airbox



4. Masking tape the guard, it is best to tape the whole guard to prevent scratches whilst working.
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 ensuring it is aligned with the top and rear guard edges and then pulled tight to the outer guard edge. and double check again.
6. Once you are happy with the alignment of the template centre punch the 6 holes. Mark the large oval hole.

7. Drill the 6 holes with a small pilot drill.



8. Remove the template and using the step drill, drill the 6 stud holes out to 16mm to clear the studs to ensure the studs clear the body.
9. To cut the oval section you may use a suitable large holesaw on each end and trim with a hacksaw. Or you may drill a few holes on the inside of the oval cut out section so you are able to trim with the air hacksaw around the oval.



10. Remove the burrs from all holes with file or deburrer.



11. Fit the upper snorkel body mount to the snorkel with the bolts supplied. Only do up finger tight for now as this will be removed shortly.



12. Fit the 6 studs 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 carefully and loosely fit the washers and nyloc nuts.
15. Mark the top Mounting bracket by marking the inside edge with a pen and the top and bottom edges.



16. Remove the snorkel body and remove the bracket from the snorkel body.
17. Sit the bracket back in the marked position and mark the holes and centre punch.
18. Pilot drill the holes, and then drill suit the rivets supplied. 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.
19. Remove the burs 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.
20. Apply a small amount of sealant to each hole.
21. Using rivets supplied, attach the top bracket to the holes drilled in previous steps.



22. Use a grinder and remove the 2 lugs from the airbox intake. The airbox intake must also require shortening by around 10 - 25mm.
23. The installer may choose to seal the airbox drain – this is recommended.
24. Install the supplier rubber joiner hose into the vehicle so that it protrudes into the engine bay and install the smaller hose clamp.
25. Re-install the airbox aligning the airbox with the rubber joiner hose and tighten the hose clamp.
26. Form the larger hose clamp around the oval outer end of the rubber joining hose so that the grub screw for the hose clamp is toward the rear pointing down.
27. 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 aligning the snorkel body outlet with the rubber joining hose. Install the upper bracket mounting bolts.



28. Tighten the nyloc nuts on the studs and upper bolts.

29. Tighten the hose clamp ensure the hose is seated properly on the snorkel.
30. Fit your Dobinsons 4x4 Ram Head to the top of the snorkel with the black hose clamp supplied.
31. Refit all nuts and bolts to the air box, refit the air filter and air box cover and any other items removed during installation.
32. Refit the inner guard, flare liner and mud flap.
33. Allow the sealant to cure before running the vehicle.

