



Landcruiser 71,73,75,78,79 Ser. Narrow Front 1/85 to 3/07

DIESEL 4.0L I6

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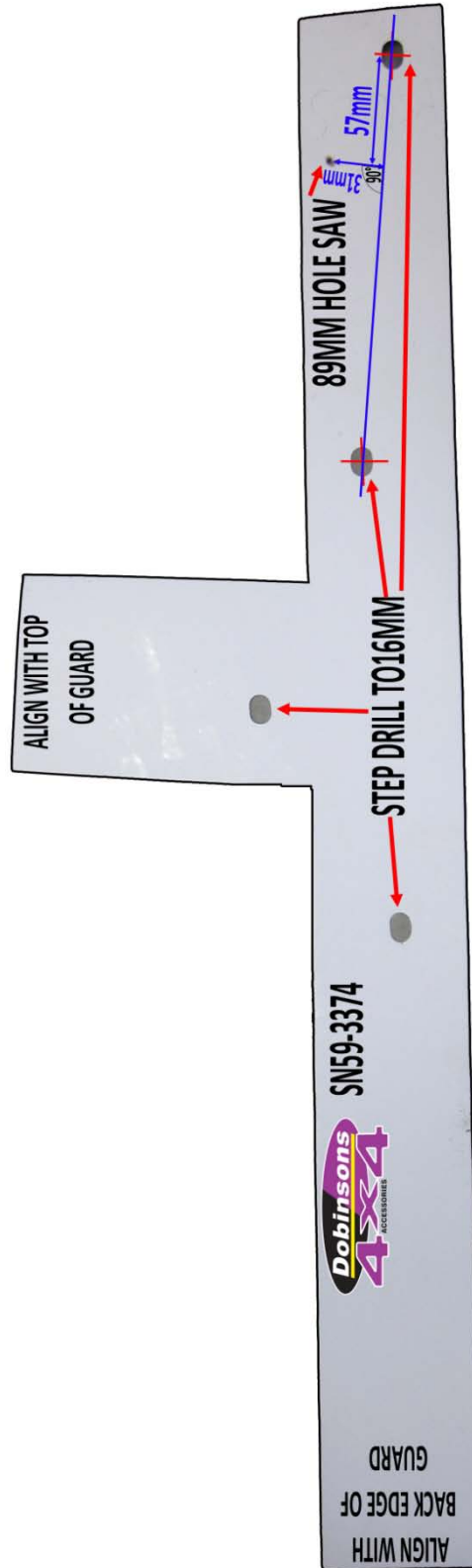
PETROL 4.0L I6

This Snorkel will take approximately 2 hours to install and is installed to the RIGHT hand Side of the vehicle

Tools required are

- 89mm hole saw
 - Step Drill, Drill bits and electric drill
 - Masking Tape and marking pen
 - Sensor safe Sealant (***Sikaflex 227 Recommended***)
 - Touch up Paint and small brush or cotton bud
 - Allen keys & Spanners
 - Pop rivet gun
 - Pneumatic Hacksaw
 - Angle grinder
 - Small Square file
 - Screw Drivers
 - 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"(Sikaflex 227 Recommended) sealant.***

Fully read and understand the instructions before beginning the installation



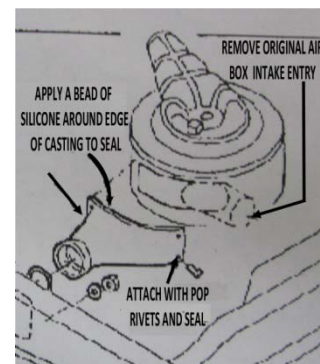
1. Remove the Land cruiser badge if equipped.
2. Remove the air box assembly.
3. Apply masking tape to the RH quarter panel, it is a good idea to cover the whole panel so you do not scratch it when working around it.
4. Check the template against the snorkel body. Align the template on the vehicle as seen in picture on page 2, and tape it down and double check again.
5. Once you are happy with the alignment of the template centre punch the 5 holes.
6. Drill the 5 holes with a small pilot drill.
7. Using the step drill, drill the 4 stud holes out to 16mm to clear the studs to ensure the studs clear the body. Using an 89mm hole saw on low speed drill the remaining hole to clear the snorkel body outlet. (You may have to slightly enlarge the back of the hole to fit the outlet neatly).
8. Remove the burrs from all holes with file or deburrer.
9. Fit the upper snorkel body mount to the snorkel with the bolts supplied. DO not over tighten
10. Fit the 4 studs to the snorkel body with thread lock and tighten with Allen key, DO NOT over-tighten.
11. Put some masking tape on the A-Pillar approximately where the upper bracket will mount.
12. Test fit the snorkel carefully and mark the top Mounting bracket holes, remove the snorkel and centre punch.



13. Pilot drill the holes, and then drill to 6mm. 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. If you are using pop rivets to attach the bracket drill the holes to suit the rivets.



14. Using the square file, file the holes square to suit the 6mm plastic clips (if using clips and screws, as seen on a different vehicle above).
15. Remove the burrs 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.
16. Fit the plastic screw clips to the A-Pillar mounting holes.
17. 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. This may require removing some items from under the bonnet to allow you to get into the guard.
18. Using the screws supplied, screw the top bracket into the plastic screw clips. DO NOT OVER TIGHTEN.
19. Tighten the nyloc nuts on the studs.
20. Using the Pneumatic hacksaw or angle grinder or equivalent, remove the original air box intake entry flush with the outside face of the air box, remove the burrs and paint the metal to prevent rust.



21. Holding the metal air box adaptor supplied against the air box as seen in the above picture, test fit the air box and adaptor in

position in the vehicle, sliding the adaptor of



adaptor on the air box and remove the air box and adaptor. Note: *Depending on the exact alignment of the adaptor you may remove more material from the air box to allow a bigger intake.*

23. Drill 4 holes (one in each corner) of the adaptor to suit the pop rivets.
24. Hold the adaptor on the air box and drill through the holes to suit the pop rivet.
25. Be sure to paint the bare metal surfaces.



26. Apply a thick bead of sensor safe sealant to the outside perimeter on the face of the adaptor to effect a water tight seal between the adaptor and air box.



27. Fit the small white rubber sealing cord supplied into the recess in the entry end of the adaptor. It should fit neatly, you will have to push it out into the recess to slightly compress it in. Ensure it does not overlap on itself.
28. Carefully slide the adaptor onto the snorkel body outlet ensuring the cord seats correctly in the recess, you may require a small amount of lubricant on the sealing cord.
29. Carefully refit the air box and rivet the adaptor to the air box ensuring a water tight seal. *NOTE: Depending on your rivet gun in some cases it may be easier to rivet the adaptor to the air box first, make sure*

the snorkel body outlet.

22. Once you are happy with the alignment, ensure it will be water tight seal, mark the *however though that you can still fit the air box with it attached.*
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.
32. Allow the sealant to cure before running the vehicle.