

# INSTALLATION GUIDE



## Ford Ranger PJ / PK, Mazda BT50 07-11

### SN19-3316



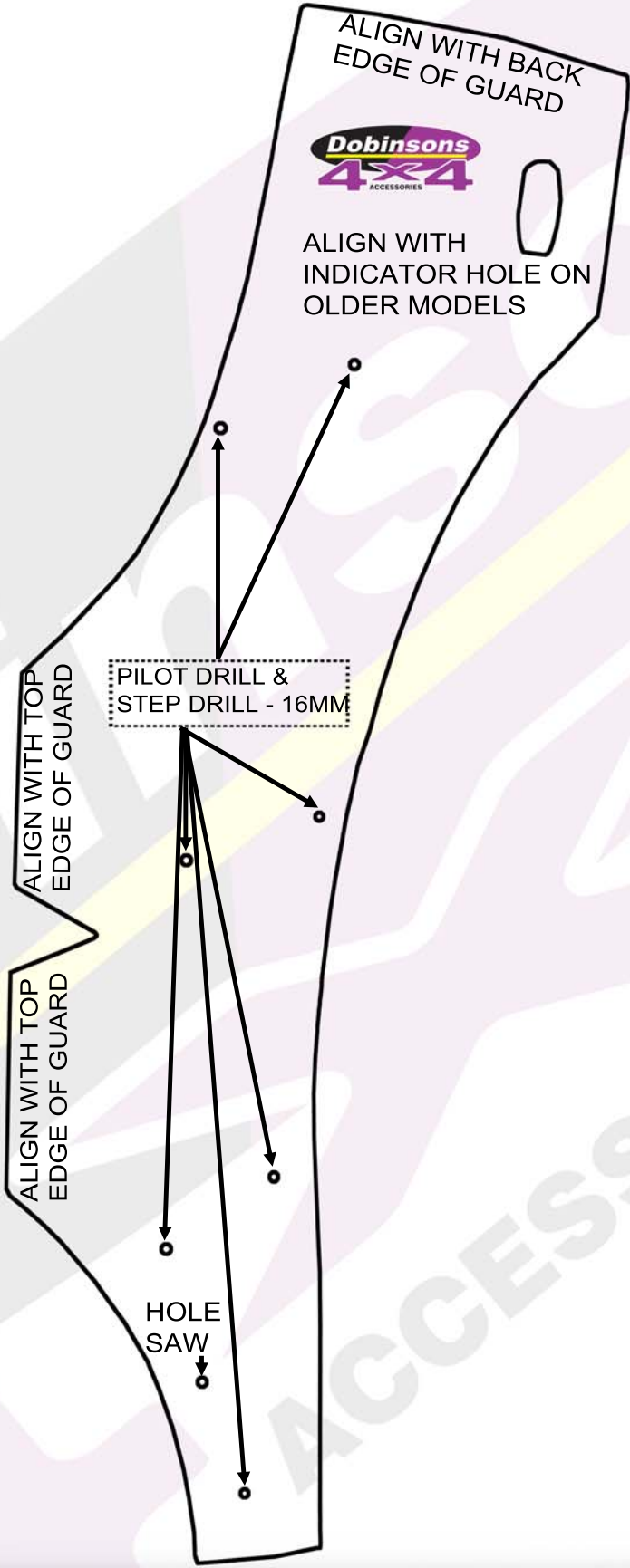
This Snorkel will take approximately 2.5 hours to install and is installed to the LEFT Hand Side of the vehicle.

Tools required are:

- 95mm hole saw
- 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
- Small Square file
- Screw Drivers
- Centre Punch and Hammer
- Angle grinder

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.

# TEMPLATE OUTLAY



# Fitting Guide

1. Remove air box lid and air filter
2. Remove air box by removing 2 bolts on guard and wriggling the inner lugs through the rubber mounts
3. Remove the LH Plastic guard between the flare and inner guard.
4. On some pre 2009 models you may have to remove the small LH indicator and flare.



5. Masking tape the entire guard.
6. Open the LH door and remove the 4 screws that hold the plastic door trim and seal.



7. Slide the plastic trim seal up and back and sit on roof.
8. Check the template against snorkel body.
9. Align the template on the guard as seen on page 2 and tape down. *NOTE: The indicator cut out on the template is for PJ models only, this will not align with the indicator on PK models like below.*



10. Mark holes and centre punch.
11. Use pilot drill to drill all holes.
12. Drill stud holes out with step drill to 16mm and use the hole saw (between 89 and 95) on low speed to drill a hole for snorkel body.



13. De-bur all holes.
14. Fit studs to snorkel body with thread lock and tighten, **DO NOT OVER TIGHTEN**
15. Loosely fit upper mount bracket with 3 bolts supplied and do bolts up finger tight centre of the slots to allow adjustment either side.
16. Masking tape the A-Pillar and windscreen.
17. Carefully test fit snorkel to vehicle put a nut and washer loosely on the front and back stud to hold it in place. Pull the top of the snorkel over so the bracket sits onto the A-pillar and mark each end and the front edge of upper bracket on A-Pillar. The front edge of the bracket should sit about in the bend in the A-pillar.



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18. Remove snorkel body, sit the upper mounting bracket back on the A-Pillar between your 2 marks and mark the 4 holes. There should be a gap of at least a few mm behind it to the windscreen so that plastic trim fits correctly.

19. Centre punch the holes and using a 5mm drill and piece of wood or equivalent spacer drill the 4 holes to prevent drilling into the interior.



20. De-bur holes and using touch up paint and cotton bud stick or small brush paint all bare metal surfaces including the holes on the guard, and clear all metal fillings.

21. Drill a series 5 mm holes along the edge of the plastic trim as seen in the picture to line up with the bracket, and slide the drill across to make a slot. File neat.



22. Test fit the bracket, aligning the holes and test fit the plastic A-Pillar trim over the top with the bracket through the slot.

23. Make sure the plastic trim will sit correctly and again you may have to adjust the angle of the bracket to allow this, as previously mentioned.

24. Remove all masking tape and metal fillings.

25. Apply a small amount of sikaflex to the bottom of the bracket and pop-rivet on using the 4 short rivets supplied.

26. Refit the plastic A-Pillar trim and weather seal, ensuring it is all aligned and seated correctly.



27. Carefully fit the snorkel body to the vehicle and fit the stainless washers and nyloc nuts supplied loosely to each stud.

28. Fit the 3 upper mounting bracket bolts to the bracket and snorkel body and tighten.

29. Tighten all stud nuts.

30. Slide the metal adaptor onto the air box with the cut out section in the corner and test fit the air box back into the vehicle.



31. Loosely fit the rubber joining hose to the metal adaptor and snorkel body making sure everything aligns correctly. In some cases you may have to enlarge the hole where the metal adaptor passes through.

32. Once you are happy with the alignment, mark a line on the air box around the edge of the adaptor, and an alignment line on the top of both adaptor and air box

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so that you can align both in the same position when removed from the vehicle. Ensure that there is enough clearance around the outside of the metal adaptor, a small bit of material may need to be ground off the adaptor to ensure sufficient clearance.

33. Remove the air box and adaptor and align the marks so it is in the same position as when it was mounted in the vehicle.

34. Drill a 5mm hole top and bottom for the 2 longer 5 mm pop rivets making sure it does not move from the marks and remove metal fillings.



35. Using gloves apply a bead of sealant to both the air box and adaptor.

36. Fit the adaptor and pop rivet.



37. Check the inside and outside of the joint and make sure it is correctly sealed you may need to apply sealant. Then remove excess.

38. Refit air box assembly to vehicle.

39. Slide the stainless hose clamp supplied over each end of the rubber joiner, positioned with the bolt heads pointing down so you can tighten from the bottom.



40. Tighten hose clamps and fit Dobinson's 4x4 Ram head facing forward with the black hose clamp supplied and tighten.

41. Refit the air box components and inner guard.

42. Check to make sure everything is fitted and tightened correctly.



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