

INSTALLATION GUIDE



Mazda BT50 10/2011 on

SN39-3459



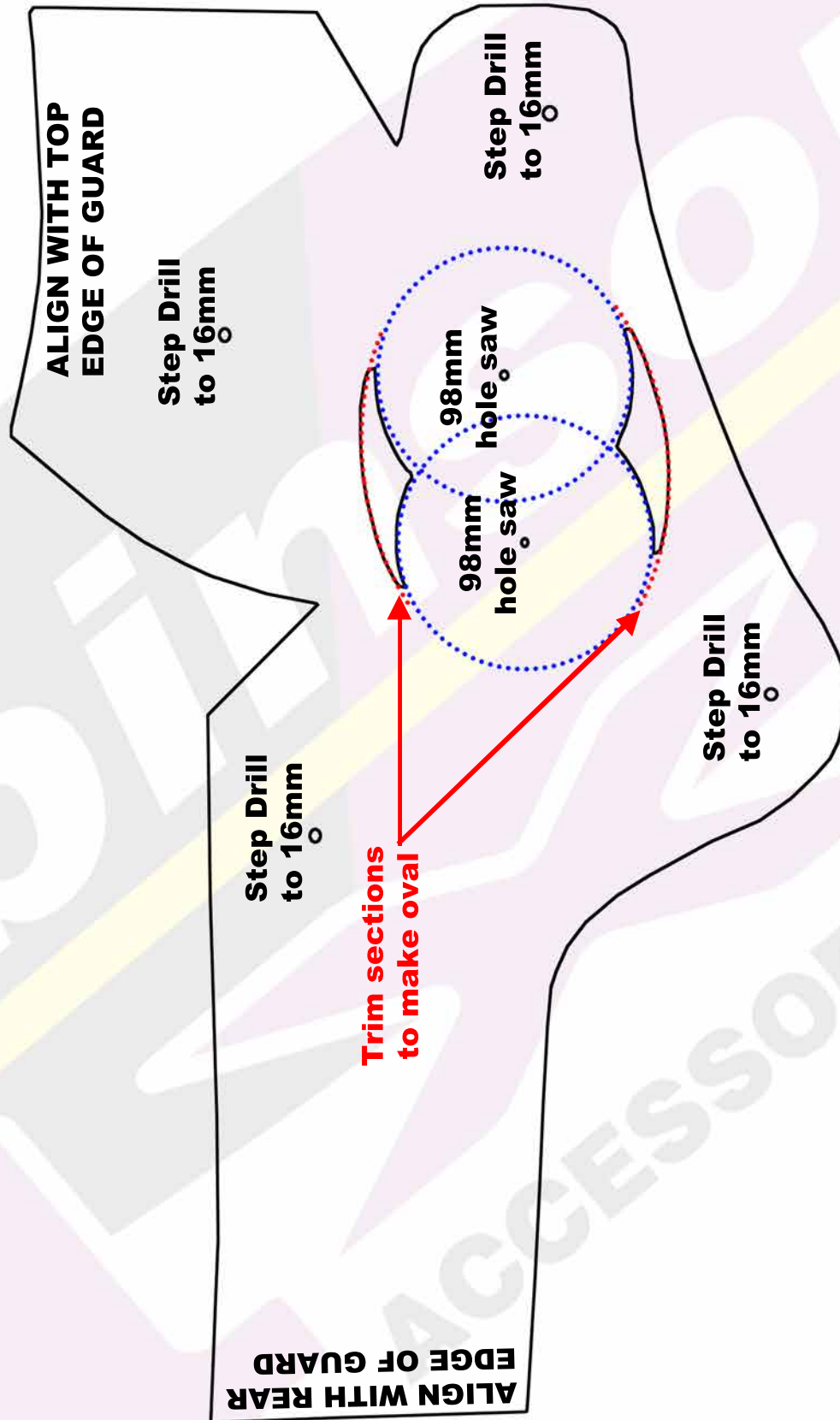
This Snorkel will take approximately 3 hours to install and is installed to the Right Hand Side of the vehicle.

Tools required are:

- 98mm 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

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. Masking tape the RH side front quarter panel it is a good idea to tape the entire panel to prevent scratching and damage during the install.
2. Remove the RH plastic inner wheel arch guard and mudflap.



3. Remove the air-box lid and air filter.
4. Unclip the wiring looms from the airbox, remove the retaining bolts and remove the air box from the vehicle.



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 and double check again.
6. Once you are happy with the alignment of the template centre punch the 6 holes and mark the cut away sections.



7. Drill the 6 holes with a small pilot drill, then remove template.

8. Using the step drill, drill the 4 stud holes out to 16mm to clear the studs, take extreme care when drilling all holes as there are wires that run behind this area – double check before drilling.

9. Using a 98mm hole saw on low speed drill both the holes to clear the snorkel body as per the diagram on page 2. Using a pneumatic hacksaw or similar carefully trim the marked sections between the top and bottom of the 2 - 98 mm holes to make an oval. NOTE: Due to the shape of the guard it can be quite difficult to drill the 98mm holes as the hole saw may want to grab on the bend of the guard. If this occurs and is causing difficulty trace the hole saw with a pen to mark the overall cut and cut the entire section away with the pneumatic hacksaw or equivalent.



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. Do not over tighten and ensure the bolts are not too long and tighten correctly.
12. Fit the 4 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 body carefully and mark the top mounting bracket hole. NOTE: Due to the large angle difference in snorkel body studs you may be required to slot/notch the front stud hole a little for easier fitment.

Mark the position of the bracket, the top, bottom and side. Ensure the door can open without touching the bracket or bolt heads.



16. Remove the snorkel and remove the top mounting bracket from the snorkel body. Place the bracket back into its marked position and mark the holes.



17. Centre punch the holes.

18. Pilot drill the holes, and then drill to 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. You will notice that there may be a pink hard foam type resin inside the a-pillar, drill extremely carefully to allow enough length for the rivet to tighten correctly. Be careful not to set off the air bags.



19. 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 and quarter panel.

20. Apply a small amount of silicone sealant to each hole.



21. Rivet the mounting bracket to the a-pillar.



22. Install the snorkel body carefully to the vehicle.

23. On each stud put a large flat washer supplied and a nyloc nut and do up finger tight. For the hard to reach top nut, the washer can be glued to the nut use a small amount of super glue or similar.

24. Bolt the top of the snorkel to the upper snorkel bracket.

25. Tighten the nyloc nuts on the studs, and tighten the upper mounting bolts.



26. Remove the 90 degree inlet from the airbox.

27. Remove the 2 screws holding the inlet adaptor to the airbox.



28. Clean the surfaces and apply a thick bead of sealant to the outside of the adaptor, to the screw holes and also to the locking tabs to provide a seal between the airbox inlet adaptor and the airbox. Re-install the adaptor and tighten screws and apply more sealant if required to provide a water tight seal. Clean excess sealant.



29. There is a small drain valve located under the airbox, Dobinsons also recommend sealing this with sensor safe sealant.



30. Slide the larger hose clamp over the oval end of the new rubber inner guard duct supplied and the smaller hose clamp over the round end.

31. Install the new rubber inner guard duct supplied into position inside the guard. This can be quite difficult to install. Starting from the edge closest to the front of the vehicle slide the oval end of the inner guard duct over the end of the snorkel body outlet and tighten

the hose clamp. This can be quite difficult and may require 2 people.



32. The screw for the hose clamp should be toward the rear of the vehicle point slightly down and forward.

33. Once tightened align the front end of the inner duct through the hole into the engine bay.

34. Re-install the air box positioning the rubber duct over the air box intake.



35. Tighten the hose clamp on onto the airbox inlet.

36. Re-install the airbox bolts, wiring loom clips, air filter and air filter lid.

37. Refit the inner wheel arch guard.

38. Re-fit and tighten any other items removed during installation.

39. Fit your Dobinsons 4x4 Ram head to the top of the snorkel with the black hose clamp supplied.



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