

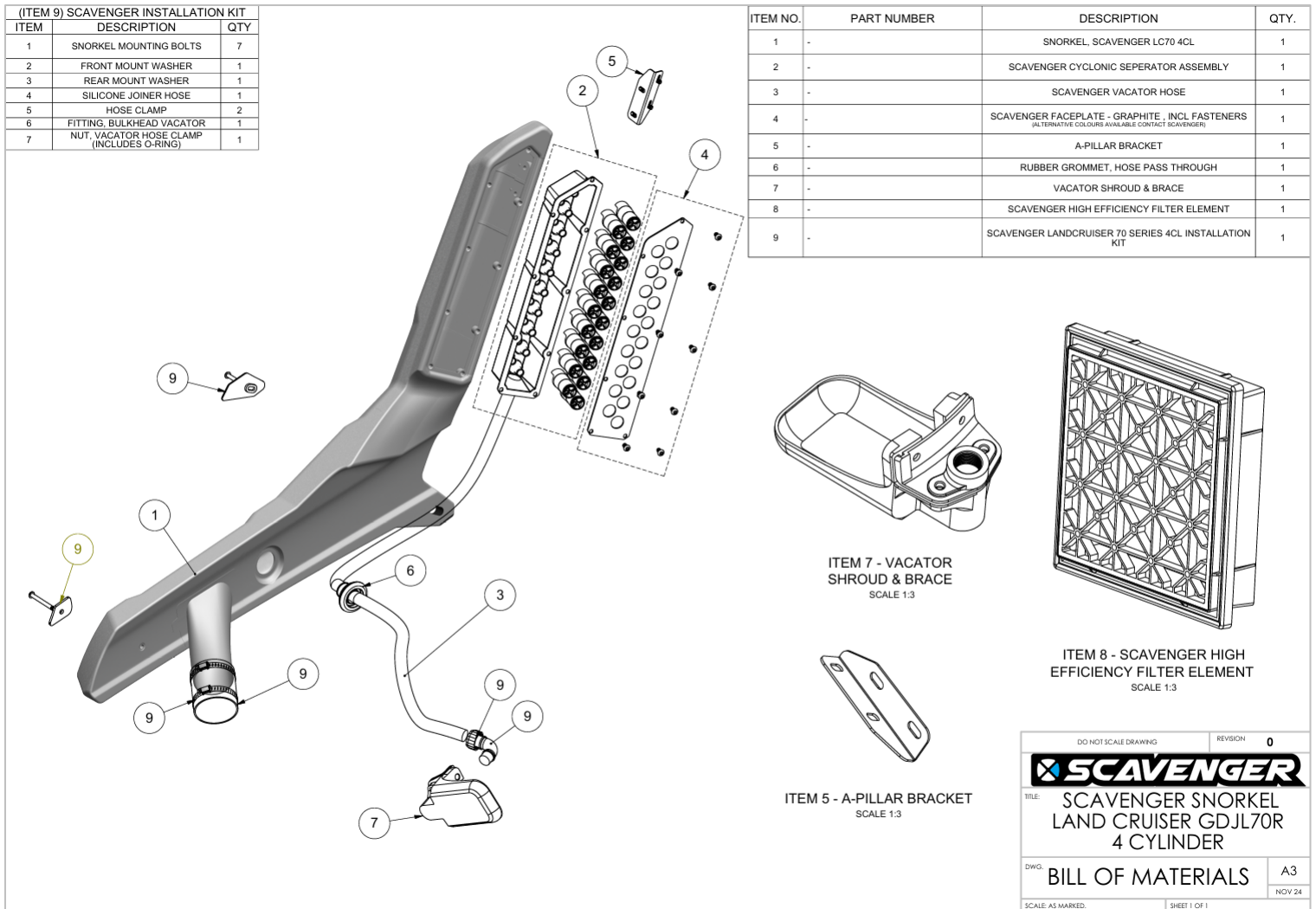
SCAVENGER SNORKELS TOYOTA LANDCRUISER GDJ 4 CYLINDER INSTALLATION MANUAL



- Prior to commencing the installation of the SCAVENGER Snorkel for your Toyota LandCruiser GDJ 4 cylinder, please read this installation manual carefully and follow step by step. Ensure that you have the correct kit for your LandCruiser by confirming your airbox is the same as shown in the images of this installation manual.
- It is recommended that only experienced and competent personnel may install the SCAVENGER Snorkel Advanced Air Intake System.
- Ensure you have all components listed in the parts list below prior to commencing this installation.
- Always place the SCAVENGER Snorkel on a soft work surface to prevent damage.
- Once holes are drilled in the vehicles body, ensure all edges are deburred and all swarf is removed, apply touch up paint/rust preventative coating any newly exposed metal surfaces.
- Safety glasses to be worn when drilling.
- Estimated installation time 1.5-2 Hours.

ITEM 9) SCAVENGER INSTALLATION KIT		
ITEM	DESCRIPTION	QTY
1	SNORKEL MOUNTING BOLTS	7
2	FRONT MOUNT WASHER	1
3	REAR MOUNT WASHER	1
4	SILICONE JOINER HOSE	1
5	HOSE CLAMP	2
6	FITTING, BULKHEAD VACATOR	1
7	NUT, VACATOR HOSE CLAMP (INCLUDES O-RING)	1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	-	SNORKEL, SCAVENGER LC70 4CL	1
2	-	SCAVENGER CYCLONIC SEPERATOR ASSEMBLY	1
3	-	SCAVENGER VACATOR HOSE	1
4	-	SCAVENGER FACEPLATE - GRAPHITE, INCL FASTENERS (ALTERNATIVE COLOURS AVAILABLE CONTACT SCAVENGER)	1
5	-	A-PILLAR BRACKET	1
6	-	RUBBER GROMMET, HOSE PASS THROUGH	1
7	-	VACATOR SHROUD & BRACE	1
8	-	SCAVENGER HIGH EFFICIENCY FILTER ELEMENT	1
9	-	SCAVENGER LANDCRUISER 70 SERIES 4CL INSTALLATION KIT	1



1. Remove the OEM Toyota LandCruiser snorkel and included parts in accordance with the manufacture service manual.



2. Release the four (4) metal clips securing the top of the air box in position.
3. Remove the Toyota OEM air filter and discard.



4. Remove the air flow sensor connected to the top of the air box. Remove the M6 bolt securing the air flow sensor in place and secure air flow sensor and bracket out of the way to allow more space to work.



5. Undo the two (2) hose clips securing air intake hose to the top of the air box. Remove hose and set the top of the air box aside.
6. Cover the air intake to prevent ingress. (A clean cloth and masking tape are recommended).



7. Release the three (3) bolts securing the bottom of the air box to the chassis, and remove bottom of the air box.



8. Once the air box is removed, remove the two (2) bolts holding the Toyota OEM intermediate tube and flange in position. Remove and discard the intermediate tube and flange.



9. Place the two drill templates on the front quarter panel of the vehicle, aligning up the template with the existing holes/cutouts in the quarter panel. Use masking tape to temporarily align the drill templates. This will provide alignment insight.



10. When the two (2) drill template is aligned correctly, centre punch to two (2) holes and drill 3mm pilot holes in the centre punch locations.

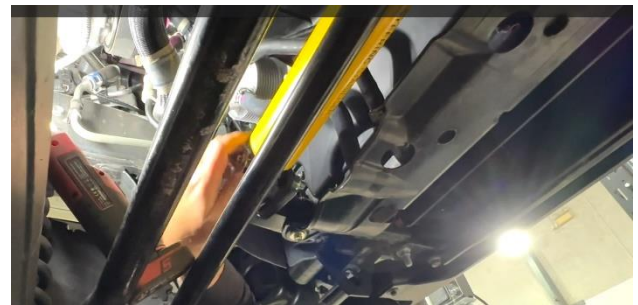
11. Using a 50mm hole saw, carefully drill the location marked 50mm on the drill template. Caution: Hole saws tend to grip the material and cause rotation of the drill. Only drill this hole if you are experienced and competent using a hole saw.
12. Using a 13mm drill bit, drill the hole marked 13mm on the drill template.



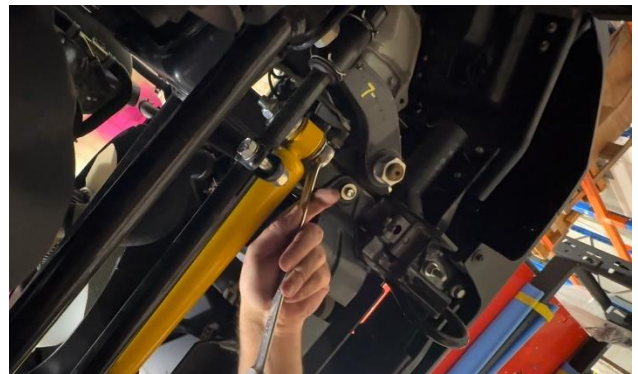
13. Deburr, remove swarf and apply paint/rust preventative measures to the exposed metal surface.



14. **Installing the vacator shroud:** You are required to drill holes in the radiator fan shroud. Access the radiator shroud drill location from underneath the vehicle.
15. To provide more space to work, its recommended to remove the steering dampener, allowing a drill to fit in easier.



16. Remove the steering dampener bolt on the right-hand side of the vehicle and allow the steering dampener to hang down. This should allow adequate space to work.



17. Take the vacator shroud and the vacator shroud brace out of the kit.



18. Place the vacator shroud brace on the bottom right-hand side of the radiator fan shroud. Align the tab on the brace with the rib on the radiator shroud as seen in the image on the right.



19. Using a G-clamp, clamp the vacator shroud brace in place. Using a 9mm drill bit, drill the bottom hole as shown in the image.



20. To allow more space for drilling the remaining holes, use a strap to tie back the radiator hose as shown in the image.



21. Fit the vacator shroud brace back into position and temporarily secure in place using a bolt and nut through the first hole.



22. Drill the remaining three (3) holes using a 9mm drill bit.

Note: The area to drill these holes is tight, its recommended to have a selection of long and short 9mm drill bits. **Caution! When drilling, ensure you don't drill too far in as the radiator core is behind this and could possibly get damaged if you are not careful.**



23. Using a 25mm hole saw, drill the large hole in the radiator shroud. Its easier to use a 90-degree drill for this. **Caution! When drilling, ensure you don't drill too far in as radiator core is behind this and could possibly get damaged if you are not careful.**



24. Fit the vacator shroud into the radiator fan shroud. Move the fan accordingly to get the vacator shroud into position.



25. Screw on the 90-degree vacator hose fitting onto the vacator shroud brace. The hose fitting should screw in with some resistance to provide and adequate seal.



26. Bolt the vacator shroud into place via the four (4) M8 bolts included in the SCAVENGER Kit.



27. The SCAVENGER Snorkel is now ready to be installed.
28. Feed the vacator hose through the predrilled 50mm hole.
29. Fit the snorkel onto the vehicle, carefully manoeuvring the snorkel outlet through the cut out in the vehicles quarter panel. Be careful to find the correct angle for full insertion.



30. Using the bolts provided in the SCAVENGER installation kit, mount the snorkel to the quarter panel. Tighten bolts sufficiently.



31. Fix the snorkel body to the quarter panel by sufficiently tightening the M8 bolt and washer as seen in the image on the right.



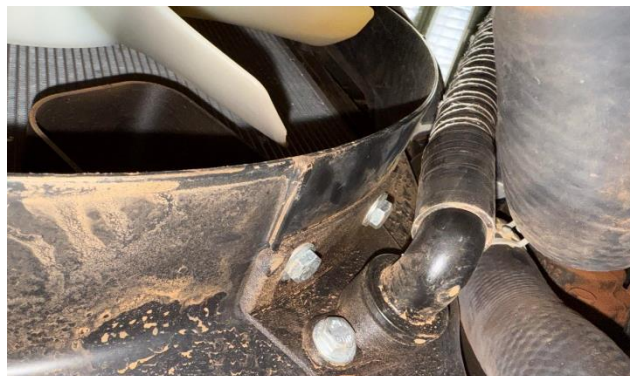
32. Fit the snorkel A-pillar bracket to the vehicles A-pillar and tighten the four (4) bolts sufficiently to secure the snorkel to the A-pillar.



33. Attach the silicone hose to the snorkel outlet at the air box location and secure in place via provided hose clamp. Tighten hose clamp hand tight at this stage.



34. Push the vacator hose over the barbs on the 90-degree vacator shroud fitting.



35. Install the base of the air box and sufficiently tighten the three (3) bolts, securing the base of the air box in position. Move the silicone hose into position and tighten the two (2) hose clamps sufficiently.



36. Remove the cover from the air intake and attach the air intake hose. Secure in position with hose clamps.

37. Install the top of the air box and attach air intake hose. Secure in position with hose clamp.

38. Install new SCAVENGER High Efficiency Air Filter and secure top of air box via the four (4) clips.

39. Take your time to double check that all bolts etc used to install the SCAVENGER Snorkel system are tight.



40. Your Toyota LandCruiser GDJL79R 4 cylinder is now fully fitted with the SCAVENGER Snorkel Advanced Air Intake system. Time to get off road and enjoy knowing your vehicles engine is protected from dust.



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