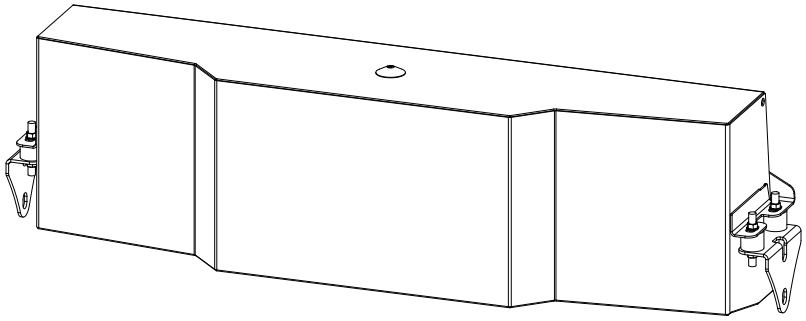
FITTING INSTRUCTIONS FOR

30L Underbody Water Tank

PART NUMBER	COMPATIBILITY
KS0163	***Toyota Prado 150, Lexus GX 460***



Included contents

QTY	COMPONENT	QTY	COMPONENT
1	30L Water Tank	1m	8mm Clear Hose
2	Mounting Bracket	4	M8 x 25 Rubber Isolator
190mm	6mm Clear Hose	8	M8 Flanged Nuts
2	1/8 NPT x 6mm Push On Banjo Fitting	1	15mm Chrome Tap
2	1/8 NPT x 8mm Push On Fitting	1	15mm Brass Extension
2	1/4 Brass Breather	1	Roll of Teflon Thread Tape
2	1/4 Female NPT x 8mm Push On Fitting	1	Warning Sticker

Time 2 hours / Couple of beers

Scan the **QR code** to watch the video installation guide,
or for further information contact KAON on **07 3180 1470** or **info@kaon.com.au**

G8.8 Bolt Torque						
DIAMETER (mm)	5mm	6mm	8mm	10mm	12mm	14mm
LUBRICATED (Nm)	5 Nm	8 Nm	16 Nm	33 Nm	56 Nm	84 Nm
NON-LUBRICATED (Nm)	6 Nm	10 Nm	22 Nm	44 Nm	77 Nm	112 Nm

Let's get to work.

Preparation

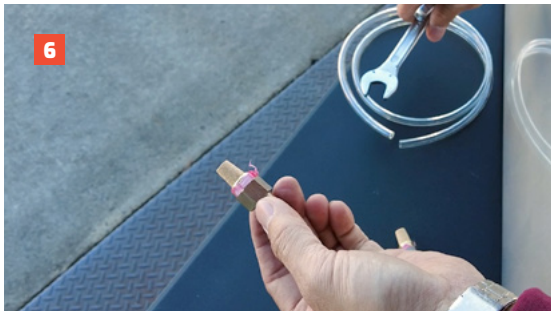
We have comprehensive video instructions for this install. If you're a little unsure, we'd recommend using the QR code on the front page to find and watch these first.

1. Apply 4 or 5 turns of Teflon tape in a clockwise direction to the 2 x 90-degree banjo fittings and 4 x 8mm push on fittings.
2. The Banjo fittings are for the sight level.
3. Install these banjo fittings to the 2 tapped holes on the front flat face of the water tank. Do not over tighten. These have a tapered thread and need only be tighten firmly to seal. Do not wind all the way down.
4. Install the clear hose for the water level gauge between the banjo fittings of the front face of the tank. Push the hose firmly into the fitting to ensure a good seal.
5. Install the 8mm push on fittings to the two tapped holes on each of the upper sides of the tank.
6. Attach the brass breathers to the 1/4 female NPT 8mm push on fittings. Set these aside.









Plumbing Installation

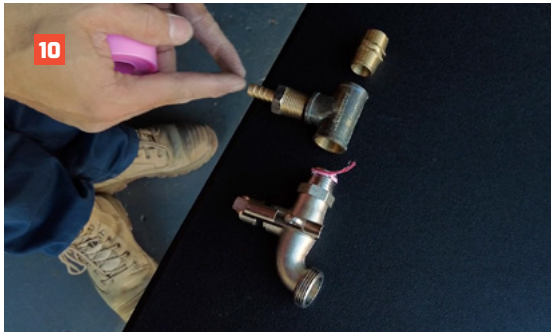
If you are installing this tank with the KAON Water Pump Kit (KS0593):

7. **Note: These photos show the brass hardware being installed whilst the tank is on the vehicle, but we recommend installing it prior.**
8. Within the pump kit, locate the brass hosetail barb, tee and nipple pieces.
9. Apply teflon tape to all the brass fitting threads in a clockwise direction.
10. Assemble the fitting as shown with the tap on one end and the nipple in line on the other end.

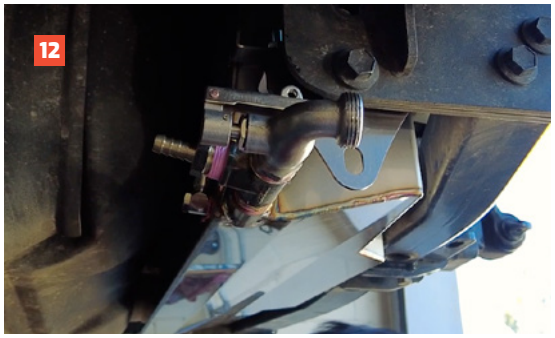
    We recommend positioning the tap outlet facing backwards and the Tee outlet pointing up or slightly forward.
11. Tightening the tap will tighten all the tee and nipple onto the tank. Note the desired final position of the tee outlet and the tap outlet and tighten individual components as required.
12. Attach the hosetail barb fitting to the outlet of the Tee piece.

    Applying more or less teflon to the threads will allow adjustment of the final position of both the tap and tee.
13. **Continue with steps 18-32.**

    Once complete, move onto the pump install, using the fitting instructions provided as part of the Water Tank Pump Kit *(KS0593).*



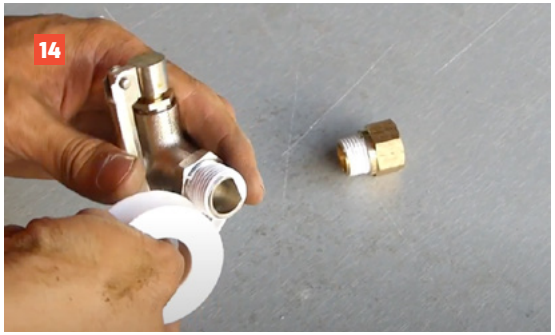




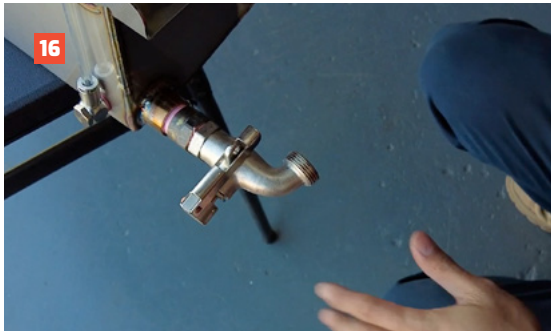
Plumbing Installation

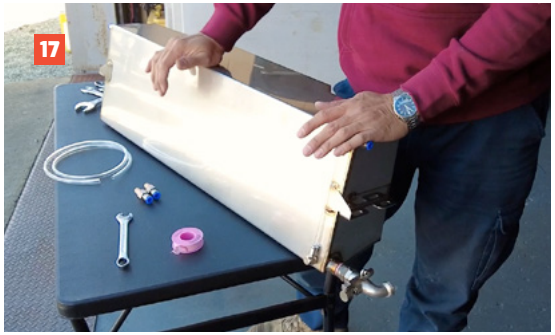
If you are installing this tank without the pump kit:

14. Use the supplied Teflon tape to all threads on the tap and brass extension.
15. Attach the brass extension to the 15mm threaded tank outlet.
16. Attach the supplied tap.
17. You may need to add more Teflon tape so that the tap is secure with the spout pointing to the vehicle rear (towards the bevelled back of the tank as pictured) once installed.



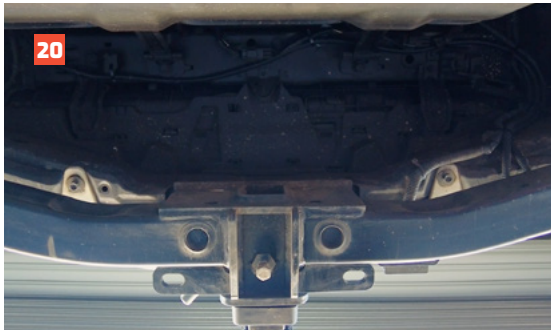






Vehicle Preparation

18. Remove the plastic trim that covers the gap between the towbar and vehicle.
19. Ensure there are no wires or hoses in the cavity where the tank will be installed.
20. Attach the 4 rubber isolators to the underside of the mounts on the sides of the water tank, using the supplied M8 flanged nuts. The mounts are slotted, but we suggest mounting centralling as generally that is correct on most vehicles.
21. Tighten to secure.
22. Remove towbar nuts and attach the towbar mounting bracket to the towbar using existing nuts. Attach loosely to the left-hand side only.
23. Remove the 2 x M10 bolts that attach the towbar to the side arms on the opposite side (the right hand side) and leave them just sitting in their mounting holes. This will make installing the tank much easier.





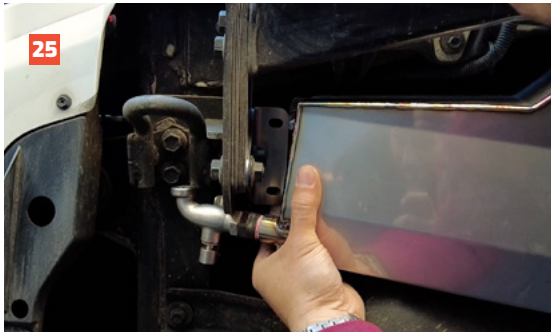




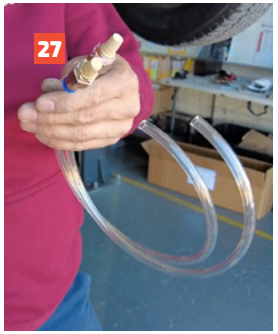
Tank Installation

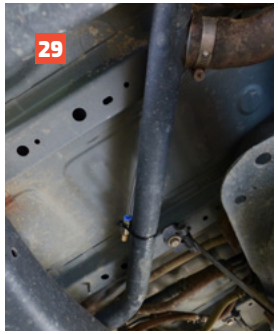
24. Lift the tank into position. Lift the left hand side up and ensure the isolators are sitting on top of the bracket.
25. Lift the right hand side up and position the mounting bracket and re-install the bolts that were removed from the towbar. The original towbar nuts are re-used.
26. Adjust the position of the tank to ensure even gap to the vehicle. You might need to remove the tank to adjust the position of the isolators and to tension the nuts on the top of the brackets. Ensure tha tank chamber is not touching any part of the chassis or tow bar.
27. Cut the 8mm clear hose in half and push these into the fittings on upper sides of the tank. These are the breather hoses.
28. Push the breather hoses into the push on fittings on the upper sides of the tank.
29. Position the breather hoses under the vehicle and determine a suitable position for the breather which is higher than the top of the tank. Secure in place with a zip tie or similiar. Ensure breather lines are clear and unobstructed.
30. Tighten and torque all bolts.
31. Adhere the supplied Warning Sticker adjacent to the tap.
32. **If you are installing the KAON pump kit, complete the fitting instructions provided for the Water Tank Pump Kit *(KS0593)*, before continuing with steps 35-40.**











Filling Guidelines

33. Attach a standard garden hose fitting to the end of the tap.

34. The tank is filled and drained from the same outlet. Ensure the tap is turned on in the open position to allow the water to enter the tank.

35. Fill to the desired level or until water escapes from the breathers.

36. Excessive pressure or flow may cause tank to swell. Turn off water as soon as tank is full.

37. If the breathers get wet, the flow from the outlet is reduced until they dry out. This is because the tank cannot breathe as freely when the breathers are wet.

    When filling, wet breathers can accumulate dust and block the breathers. Maintain breathers by removing and washing the breathers and then blowing them out with compressed air if available.

38. We recommending rinsing and washing the tank by running a a weak detergent solution through it prior to use.



Local Knowledge & Assistance

We know half the fun of building your dream 4x4 is getting your hands dirty. But we also know that sometimes, things don't go to plan. If in the pursuit to build the ultimate setup you find yourself off-track, we're here to help you get unstuck.

For further information call 07 3180 1470 or email info@kaon.com.au

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