



FITTING INSTRUCTIONS FOR

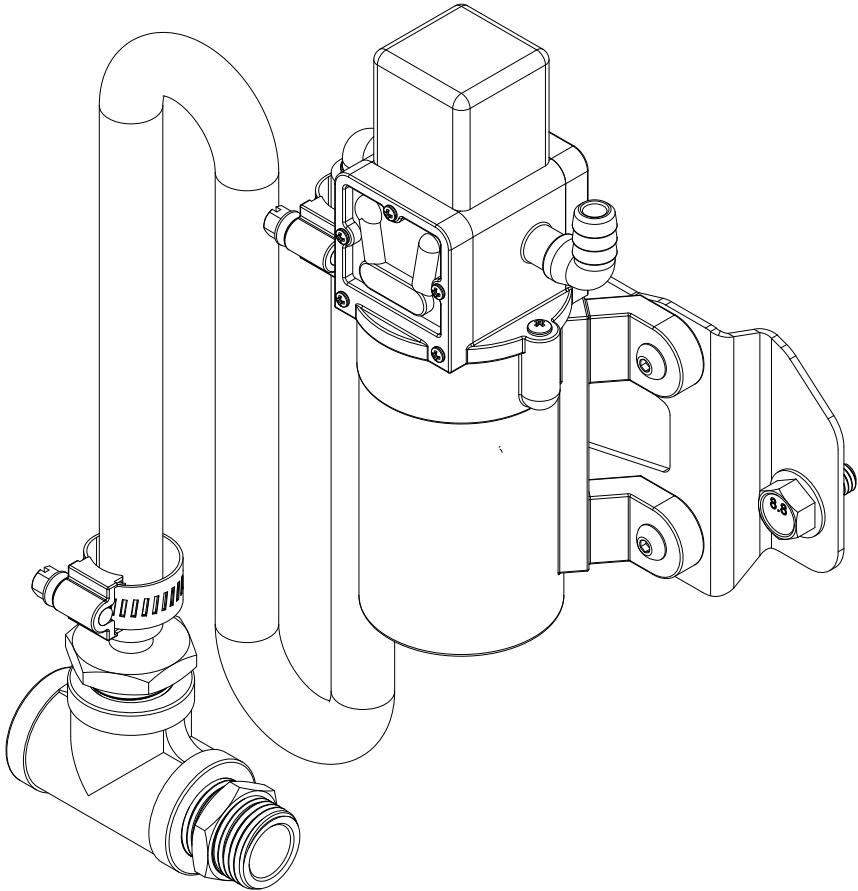
Underbody Water Tank Pump Kit

SKU

KS0593

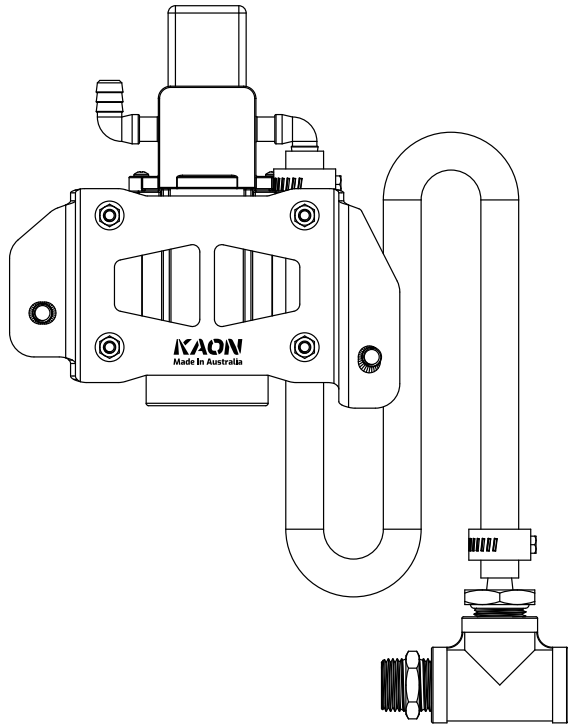
COMPATIBILITY

KAON 30L Underbody Water Tank (KS0163)



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





Included contents

QTY	COMPONENT	QTY	COMPONENT
1	Seaflo 3.8lpm Pump	600mm	10mm PVC Braided Hose
1	Pump Mounting Bracket	2	13-20mm Hose Clamp
4	M5 x 16 Button Head Socket Screw	1	Brass Hex Nipple 1/2" BSPP
4	M5 Nyloc Nut	1	Brass Tee 1/2" BSPP
2	M8 x 16 Flanged Hex Bolt G8.8	1	Brass Barb 10mm 1/2" BSPP

Also required (not included)

Pump water outlet components based on your setup (For example: hose, clamps, tap fitting, etc)

Electrical supply & switching components

Any metering components (if desired)

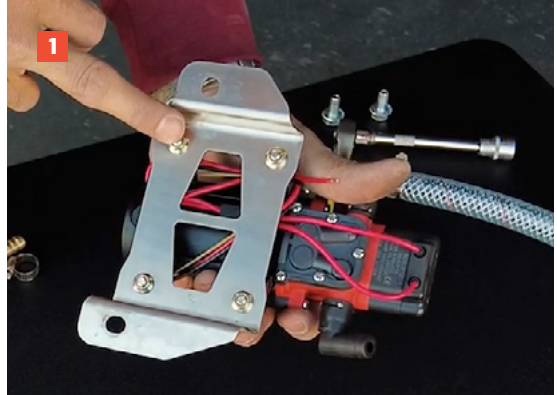
Let's get to work.

Preparation

We provide everything you need to connect the pump to your tank. Due to setup variables, you will need to source materials required for the pumps output, as well as power supply and any metering you may wish to install.

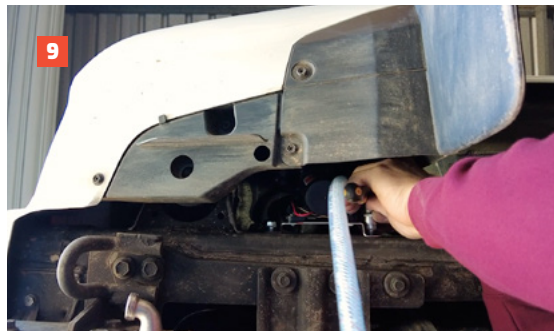
If you are installing the tank as well, start with the instructions provided with it first. We have comprehensive video instructions for this install. If you're a little unsure, use the QR code on the front page to find and watch these first.

1. Attach the mounting bracket to the back of the pump using the provided M5 screws and nuts.
2. Ensure the bracket orientation is correct with the lowest part of the bracket at the bottom left of the pump, as pictured.
3. Tighten all bolts.
4. We provide a 600mm length of braided hose to connect the tank to the pump, but you will need to source a hose for the pumps output. The length of this will depend on where you intend the final water outlet to be located within your vehicle. See pg 7 for suggested possible access positions.
5. Attach the provided 600mm pump inlet hose to the left hand side of the pump using one of the provided hose clamps.
6. We recommend attaching the pump outlet water hose you have sourced to the right hand side at this point, as it is more difficult to access once the pump is mounted to the vehicle. We have attached a short piece to demonstrate.



Mounting the Pump

7. The pump bracket mounts to two captive nuts in the vehicle chassis, just behind the rear wheels on the LHS (AU Passenger) side.
8. You will see a rubber grommet above this position, this allows you to run power and water into/from the pump and into the car, if you wish to do that.
9. Lift it into position and secure using the provided M8 bolts.



Installing the Brass Hardware to the Tank

As part of a new tank install:

If you are installing the KAON Underbody Tank (KS0163) at the same time as this pump kit you will already have installed the provided brass tee, nipple and hosetail barb pieces to the tank's tap, in line with the tank instructions. Skip to step 18.

To a previously installed tank:

10. If you are installing this kit to a tank previously fitted (without a tee), we suggest you drop down the tap side of the tank first. It can be held in place by loosely securing the top tank mount to the lower bolt.

11. Remove the brass tap and fitting from the tank outlet.

12. Apply teflon tape to all the brass fitting threads in a clockwise direction.

13. Assemble the fitting as shown with the tap on one end and the nipple in line on the other end.

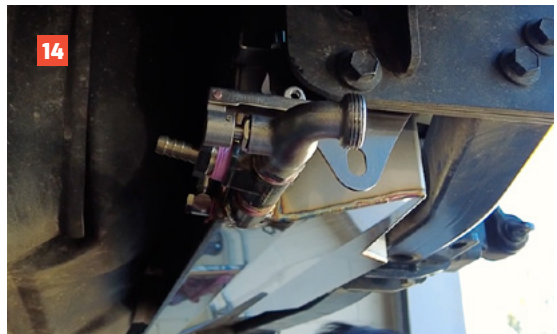
We recommend positioning the tap outlet facing backwards and the Tee outlet pointing up or slightly forward.

14. 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.

15. 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.

16. Lift the tank back up into its correct position, and tighten the mounting bolts to secure.



Plumbing the Pump into the Tank

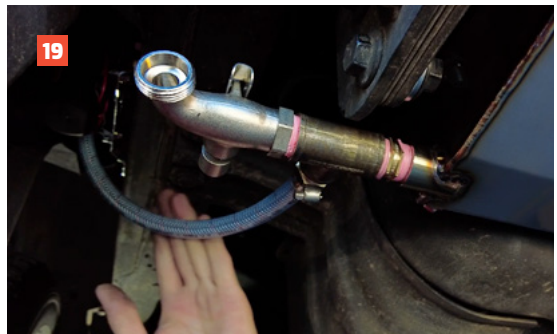
17. If you have opted to orient the hosetail pointing towards the front of the vehicle, loosely line up the 600mm pump inlet hose with the brass barb fitting on the tank outlet.

If you drive have opted to orient the hosetail upwards, run the hose higher up above the chassis rails before dropping down to connect to the tank.

18. With the hose position confirmed and trim to the final desired length. You don't want the hose to be pulled taut, but also ensure it is positioned without any excess slack.

19. Secure the trimmed hose to the nipple using the remaining provided hose clamp.

20. Ensure the hose is clear of any obstructions and that nothing is rubbing on it.



Tips for finalising the installation

From here it's over to you!

We know that people have lots of different setups, so we haven't provided components or instructions on how to run the water or electrical from your pump.

But that doesn't mean we don't have some tips and suggestions:

- A. The grommet mentioned in Step 8 feed into the interior panel pictured, allowing you to run it into a drawer system with a switch and retractable hose on the drawer wings.
- B. You can run the water outlet across to this hatch and fit it with a swivelling tap.
- C. And perhaps the trickiest option (but definitely a game-changer) is to feed the water into a tap on your rear door.

This requires running the water line and power under the rear trim across the back of the car, through the rubber door grommets and into your rear door. 12V taps like this are available from caravan accessory retailers, as is the level meter pictured.

It's worth noting it's a lengthy install to complete and a lot of wiring and hoses need to make it through the rear door grommet. The level meter also requires a hole drilled into the tank for the water level sender.



Bolt Torque

DIAMETER (mm)	5mm	6mm	8mm	10mm	12mm
NEWTON-METRES (Nm)	5 Nm	9 Nm	22 Nm	44 Nm	77 Nm



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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