



LONG RANGE AUTOMOTIVE

Installation Instructions for TSURF97A **Toyota Surf** **105L Auxiliary Tank**

This auxiliary tank fits under the rear of the vehicle and takes place of the spare wheel. A new twin filler is supplied to replace the current filling method. Fuel is transferred via an electric pump that will pump fuel from the auxiliary tank into the OEM tank. A combination switch/gauge will be located into a suitable position in the dash. When the switch is in operation a **YELLOW** light will be ON, indicating the transfer pump is in operation. A series of lights will also indicate fuel level. All **GREEN** lights on showing FULL, one **RED** light showing EMPTY.

(DO NOT OPERATE TRANSFER PUMP WITH NO FUEL IN AUXILIARY TANK OR PUMP FAILURE WILL OCCUR).

1. Locate and remove a suitable switch blank in the dash and install switch/gauge and associated wiring as per diagram.
2. Remove L/H/R wheel and plastic filler neck cover, remove original filler neck from vehicle and cut both pipes at points shown in drawing. File sharp edges off, install 100mm length of 35mm hose to lower section of fill pipe. Also install 650mm length of 12mm hose to steel tube then refit lower section of filler pipe to vehicle.
3. Install brass fittings to sockets on new twin filler as shown in the diagram. New twin filler can now be installed to vehicle and secured with the same M8 nut that secured the original filler. (If a towbar is fitted to the vehicle remove bar, then, if towbar is a genuine Toyota bar locate and remove 6mm spacer plates from the mounting surface of the towbar, these plates are only tack welded on in two places and will easily be ground off and any lumps ground flat). Mount transfer pump in L/H/R corner of vehicle (directly to the floor pan behind the L/H/R wheel arch is a well-protected area). Run twin core wire from switch gauge to this area.
4. Install brass fittings to sockets on new fuel tank as shown in drawing, also install vent hose fuel pick up hose and fast fill hose and Y piece to tank. (NOTE: DO NOT CONNECT FAST FILL HOSE FROM Y PIECE TO REAR HALF OF TANK UNTIL TANK IS IN PLACE - THIS HOSE RUNS OVER CROSS MEMBER). Check gauge sender OHMS readings at full and empty by rolling tank. Empty should be 0.2-2.5 OHMS; full should be 88-92 OHMS.



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5. Install 50 mm length of 38m hose to twin filler neck and slide up neck as far as comfortably possible. Don't clamp hose yet this simply puts hose in good position to make tank installation easier. Lift tank up into position then slide fill hose down onto tank fill neck and centralize tank between chassis rails. If no towbar was fitted mark and drill holes in chassis rails and secure with bolts provided. If towbar was fitted refit towbar with tank and secure with original towbar bolts. Drill mounting holes in front cross member and install bolts. Connect all remaining hoses & wires. Take care not to kink fast fill hoses, neatly cable tie all hoses and wires away from any moving parts or heat sources. Refit plastic filler neck cover and L/H/R wheel. Fill with fuel, check for leaks and check pump operation.



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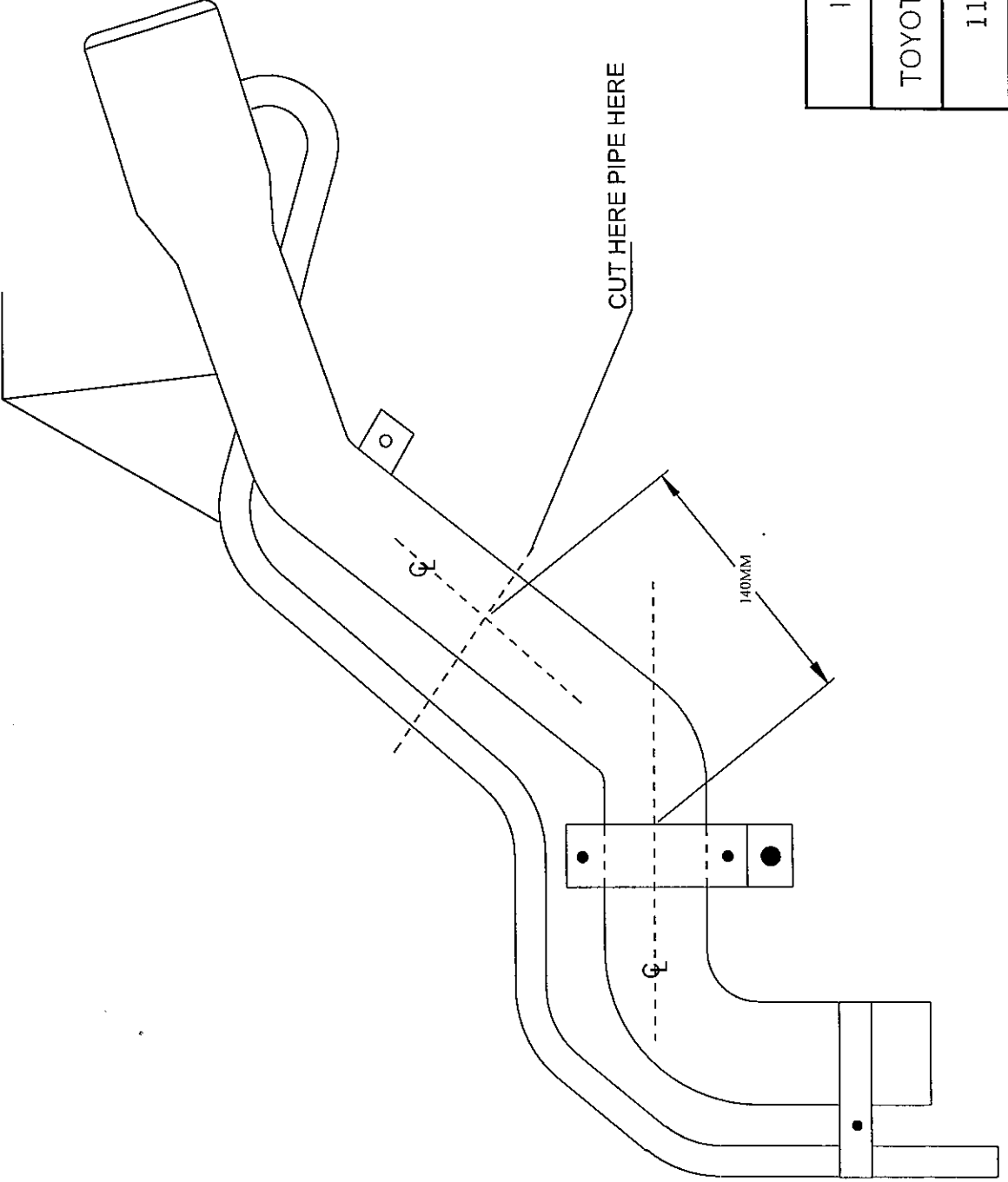
FITTING KIT CONTENTS TSURF97A

Brass 1 x P6 1/4 x 1/4 Elbow 2 x P6 5/16 x 1/4 Elbows 4 x P6 1/2 x 1/4 Elbows 1 x P6 1/4 x 1/8 Elbow	Electrical 1 x 3mm Two Core @ 6000mm 3 x Red Insulated Terminals 3 x Red Eye Terminals 2 x Red Male Terminals 1 x CP470GS Switch Gauge Unit 4 x 3mm Heat Shrink Tube @ 25mm
Bolts / Nuts 1 x M10 x 85 Bolts 4 x M10 x 25 Flat Washers 2 x M10 Nyloc Nuts 5 x M5 x 10 Pan Head Screws 3 x 8mm Tech Screws 1 x M10 x 30 with 200 Strap FOR VEHICLES WITHOUT TOW BAR: 2 x M12 x 30 Bolts 2 x M12 x 30 Bolts with 300mm Straps Welded On 8 x M12 Flat Washers 4 x M12 Nyloc Nuts	Misc Parts 1 x Twin Filler #TFSURFA 1 x 12mm Y Piece
Hoses 1 x 6mm Hose @ 1400mm 1 x 8mm Hose @ 1200mm 1 x 12mm Hose @ 650mm 1 x 12mm Hose @ 1000mm 1 x 38mm Hose @ 80mm 1 x 35mm Hose @ 100mm	Cable Ties 10 x 7" Cable Ties 5 x 11" Cable Ties
Hose Clamps 8 x 1/4 Hose Clamps 8 x 1/2 Hose Clamps 4 x 1" 1/2 Hose Clamps	Sender 1 x 0-90 OHMS Sender Unit c/w 500mm Earth lead
7 Page of Fitting Instructions Consisting Of: 2 x Pages Fitting Instructions 2 x Pages Fitting Kit Contents 1 x Page Installation Diagram INTSURF97A01 1 x Page Installation Diagram INTSURF97A02 1 x Page CP470GS Wiring Diagram	Filters & Pumps 1 x Fuel Pump & Filter 1 x Fuel Pump Mounting Plate

Kit Packed By _____

Checked By _____

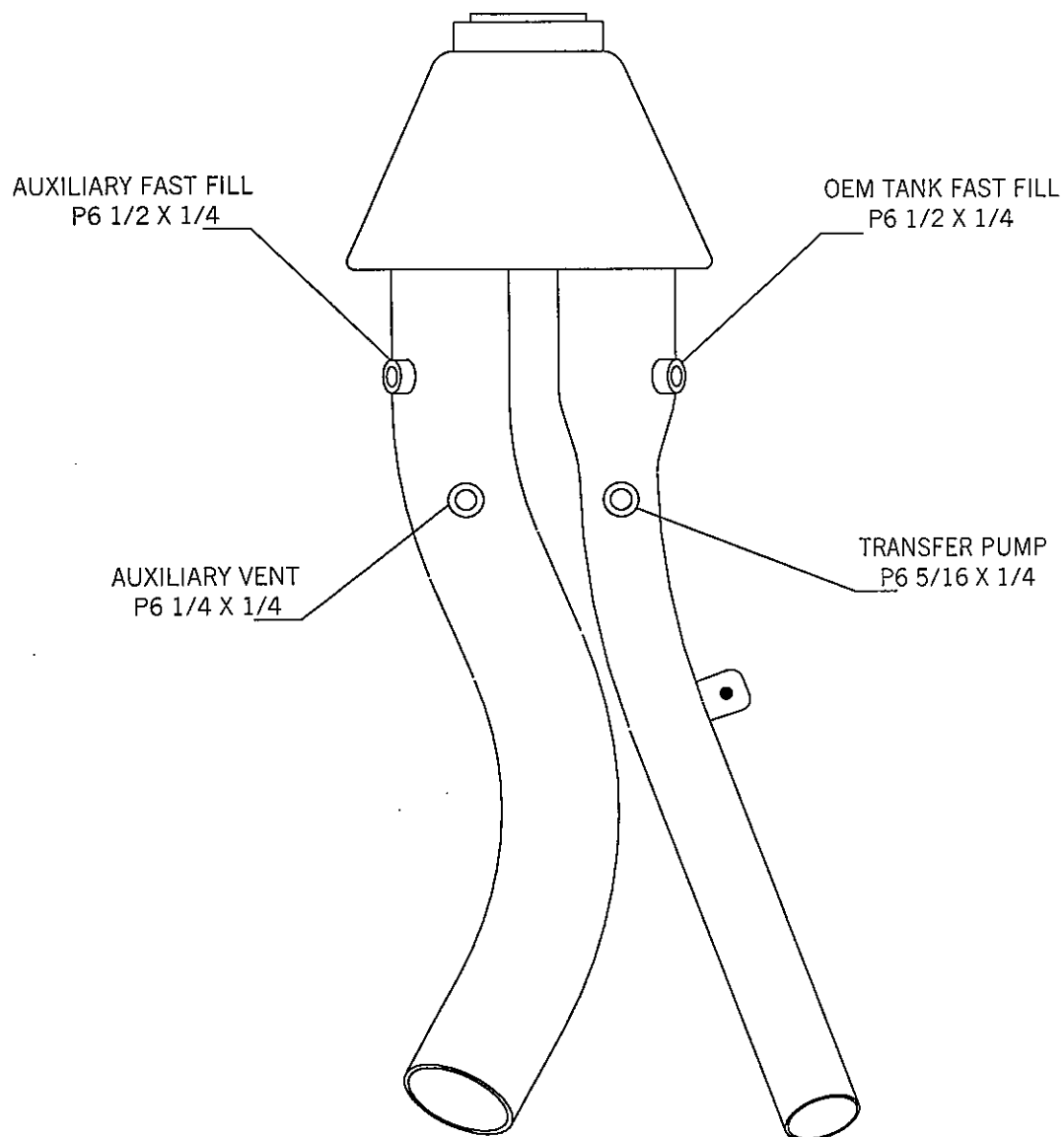
DISCARD THESE PARTS OF OEM FILLER



INTSURF97A01

TOYOTA SURF IMPORT

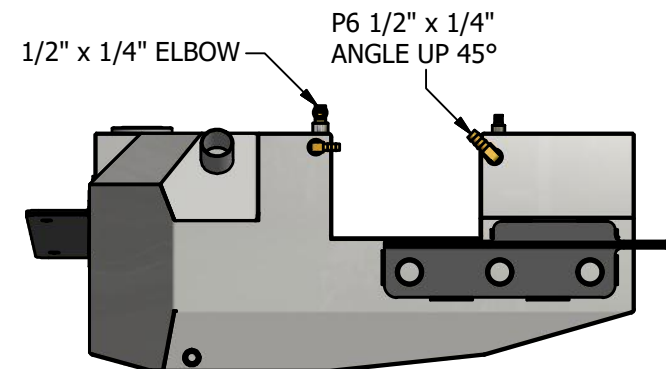
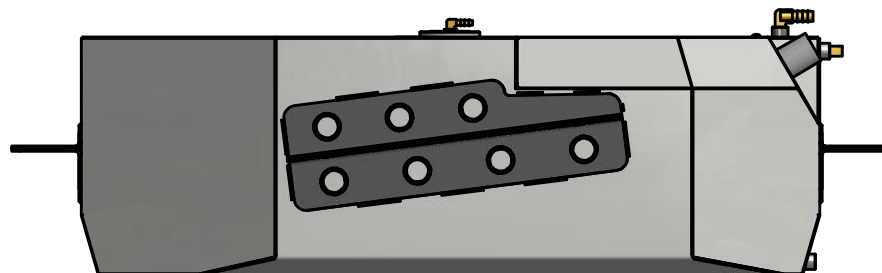
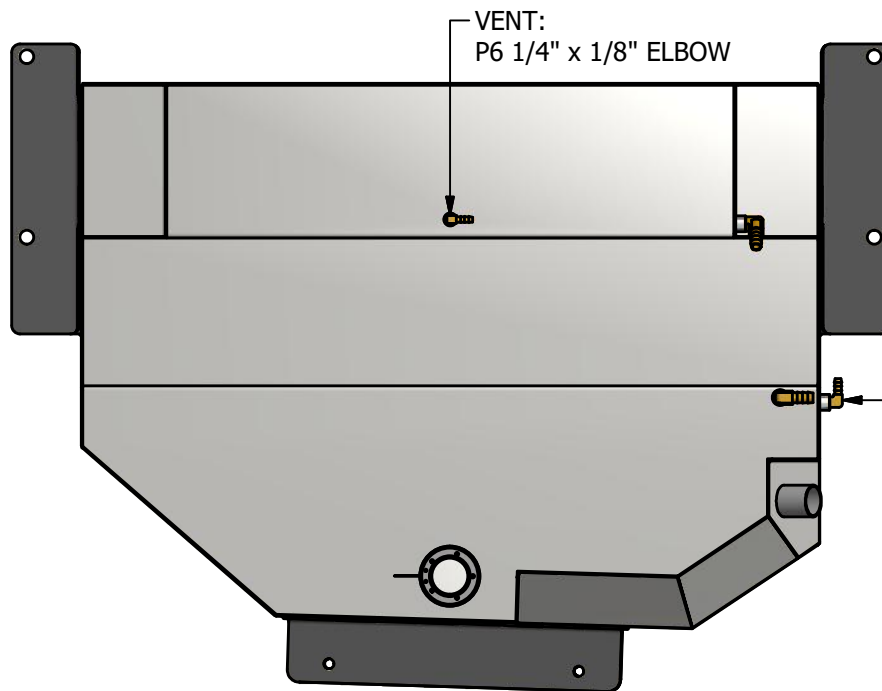
110 Lt AUX TANK



INTSURF97A02

TOYOTA SURF IMPORT

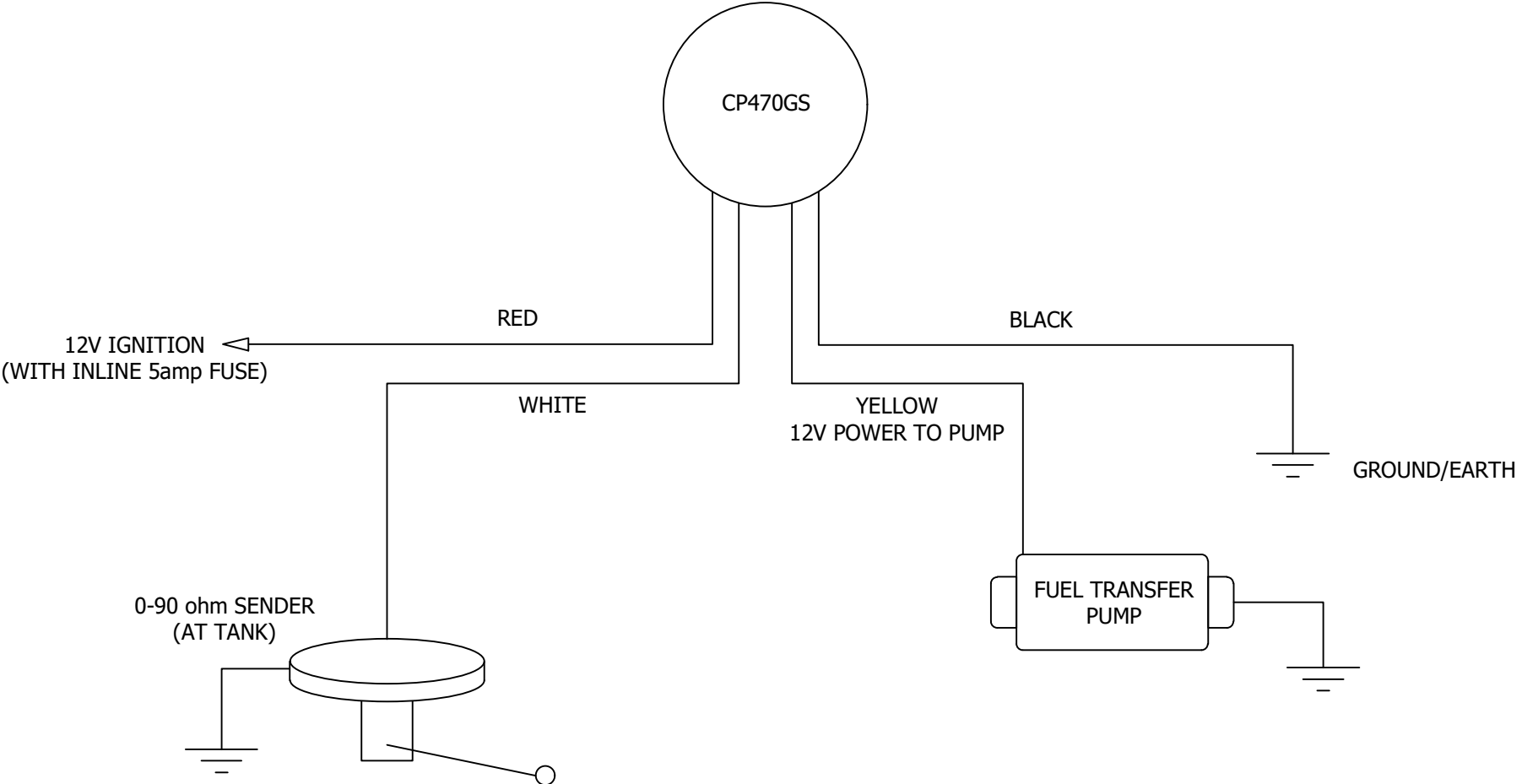
110 Lt AUX TANK



TSURF97A		FITTINGS	
PROGRAM NUMBERS		EDITION 1	27/10/2025
		DRAWN BY - J.D	
		APPROVED -	
Toyota Surf 1997. 105 ltr Rear auxillary tank.			

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LONG RANGE AUTOMOTIVE AND IS NOT TO BE DUPLICATED
WITHOUT PERMISSION

MODEL No. CP470GS
LONG RANGE AUTOMOTIVE AUXILIARY FUEL TANK PUMP CONTROLLER WIRING DIAGRAM



CP470GS		WIRING DIAGRAM		
PROGRAM NUMBERS		EDITION	2	19/05/2026
			DRAWN BY - J.D	
			APPROVED -	

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The auxiliary tank that is fitted to this vehicle operates via a fuel transfer pump with an automatic switch off when the **auxiliary** tank is empty.

The CP470GS operates as follows:

- The **YELLOW** and subsequent **GREEN** light's display the contents of the Auxiliary Tank.
- One **RED** Light showing **EMPTY**
- All **GREEN** shows **FULL**
- When the switch is turned **ON** and **ROUND YELLOW** light is displayed this indicates that fuel is being transferred from the **AUXILIARY TANK** into the **MAIN TANK**.
- Fuel is transferred at around 2 litres per minute.
- Fuel will be transferred from the auxiliary tank into the main tank until the auxiliary gauge shows a **RED** light at which point, the buzzer sounds. The pump will shut off along with the buzzer when the switch is turned off.

Good To Know:

- Pump LED indicates when the transfer pump is active
- You can manually turn the pump off by pressing the button if required
- The switch will sound an audible beep when the **auxiliary tank** is empty
- Pump is fitted externally to allow easy access if required
- Pump has a filter included

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