

Installation Instructions for TSURF97A <u>Toyota Surf</u> 105L Auxiliary Tank

This auxiliary tank fits up behind the rear axle. Filling of this tank is done via a new twin filler neck that replaces the original filler, fuel is transferred from the auxiliary tank to the main tank via an electric pump. A combination switch gauge will be located into one of the available switch blanks in the dash. The gauge is a series of GREEN LED lights all LED's on indicates a full tank; one RED LED on indicates an empty tank. The switch is a two position switch, with the switch in the on position an ORANGE LED will come on to indicate that the transfer pump is operating.

(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.

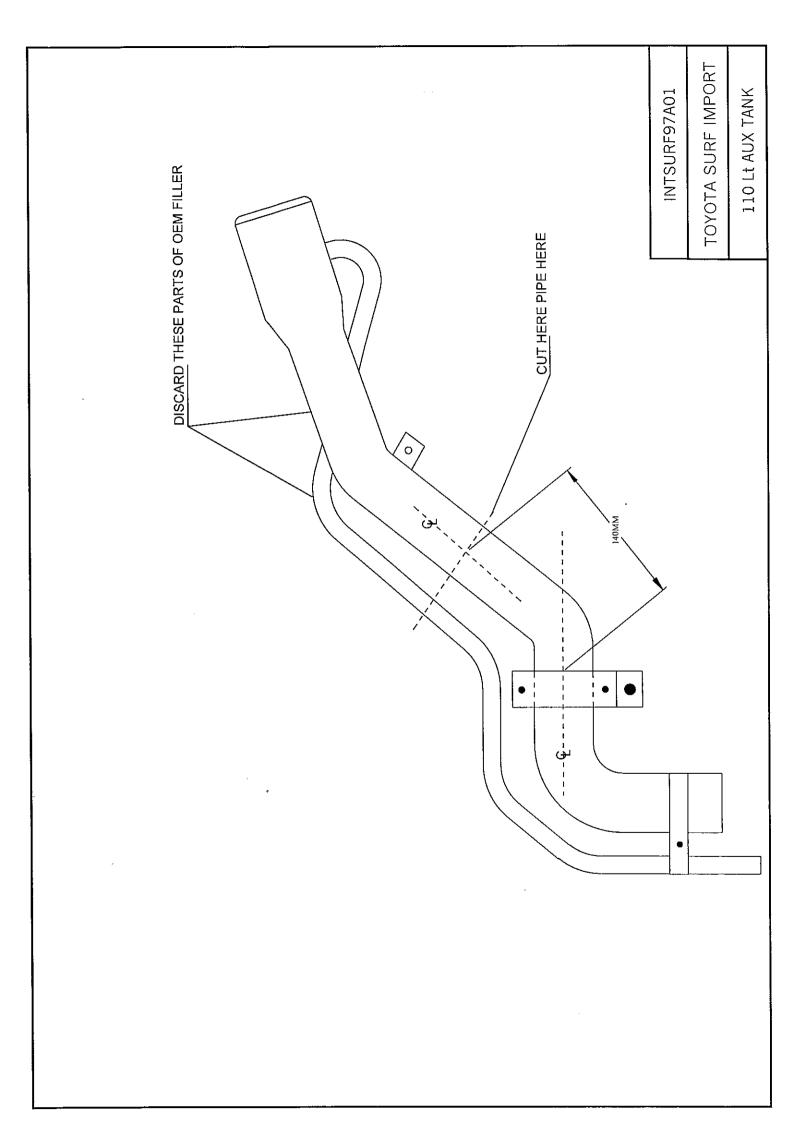
5. Install 50 mm length of 38m hose to twin filler neck and slide up neck as far as comfortably possible. Don't clamp hose yet this simply puts hose in good position to make tank installation easier. Lift tank up into position then slide fill hose down onto tank fill neck and centralize tank between 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.

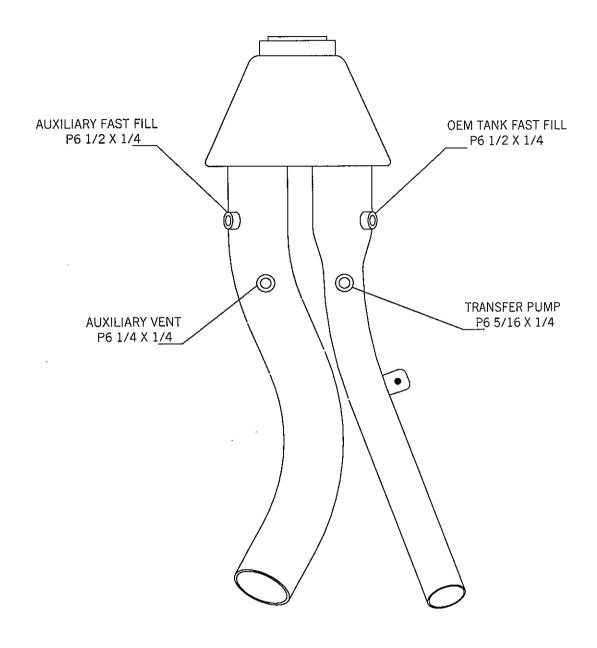


FITTING KIT CONTENTS TSURF97A

	Updated 10/2025 - TL
Brass	Electrical
○ 1 x P6 1/4 x 1/4 Elbow	o 1 x 3mm Two Core @ 6000mm
o 2 x P6 5/16 x 1/4 Elbows	3 x Red Insulated Terminals
o 4 x P6 1/2 x 1/4 Elbows	o 3 x Red Eye Terminals
○ 1 x P6 1/4 x 1/8 Elbow	2 x Red Male Terminals
	o 1 x 5 AMP Fuse
	o 1 x Fuse Holder
	o 2 x Fuse Holder Terminals
	o 1 x 4mm Single Core Blue @ 300mm
Bolts / Nuts	Misc Parts
○ 1 x M10 x 85 Bolts	1 x Twin Filler #TFSURFA
o 4 x M10 x 25 Flat Washers	o 1 x 12mm Y Piece
o 2 x M10 Nyloc Nuts	o 1 x LRA PG210 Switch Gauge
○ 5 x M5 x 10 Pan Head Screws	o 4 x 3mm Heat Shrink Tube @ 25mm
o 3 x 8mm Tech Screws	
o 1 x M10 x 30 with 200 Strap	
FOR VEHICLES WITHOUT TOW BAR:	
o 2 x M12 x 30 Bolts	
o 2 x M12 x 30 Bolts with 300mm Straps	
Welded On	
o 8 x M12 Flat Washers	
o 4 x M12 Nyloc Nuts	
Hoses	Cable Ties
o 1 x 6mm Hose @ 1400mm	o 10 x 7" Cable Ties
o 1 x 8mm Hose @ 1200mm	o 5 x 11" Cable Ties
o 1 x 12mm Hose @ 650mm	
o 1 x 12mm Hose @ 1000mm	
o 1 x 38mm Hose @ 80mm	
o 1 x 35mm Hose @ 100mm	

Hose Clamps	Sender
o 8 x 1/4 Hose Clamps	o 1 x 0-90 OHMS Sender Unit c/w 500mm
o 8 x 1/2 Hose Clamps	Earth lead
o 4 x 1" 1/2 Hose Clamps	
7 Page of Fitting Instructions Consisting Of:	Filters & Pumps
 2 x Pages Fitting Instructions 	o 1 x Fuel Pump & Filter
 2 x Pages Fitting Kit Contents 	o 1 x Fuel Pump Mounting Plate
 1 x Page Installation Diagram 	
INTSURF97A01	
o 1 x Page Installation Diagram	
INTSURF97A02	
o 1 x Page Wiring Diagram LRAPG210	





INTSURF97A02

TOYOTA SURF IMPORT

110 Lt AUX TANK

