



Installation Instructions for TSURF97A Toyota Surf 110L 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 38mm 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 10/20 - TL

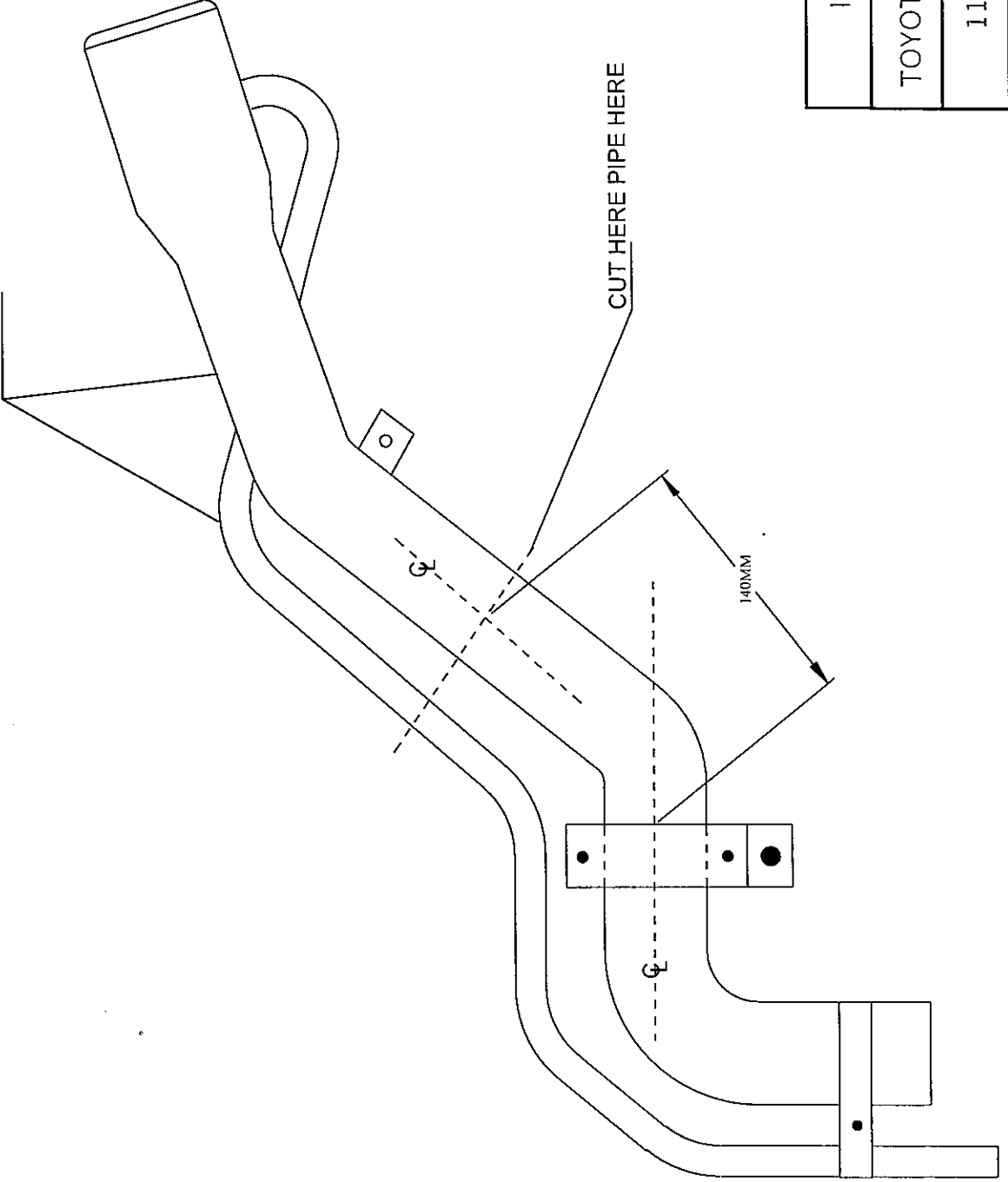
Brass	Electrical
<ul style="list-style-type: none"> ○ 1 x P6 1/4 x 1/4 ELB ○ 2 x P6 5/16 x 1/4 ELB ○ 4 x P6 1/2 x 1/4 ELB ○ 1 x P6 1/4 x 1/8 ELB 	<ul style="list-style-type: none"> ○ 1 x 3mm Two Core @ 6000mm ○ 3 x Red Insulated Terminals ○ 3 x Red Eye Terminals ○ 2 x Red Male Terminals ○ 1 x 5 AMP Fuse ○ 1 x Fuse Holder ○ 2 x Fuse Holder Terminals ○ 1 x 4mm Single Core Blue @ 300mm
Bolts / Nuts	Misc Parts
<ul style="list-style-type: none"> ○ 2 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 <p><u>FOR VEHICLES WITHOUT TOW BAR:</u></p> <ul style="list-style-type: none"> ○ 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 	<ul style="list-style-type: none"> ○ 1 x Twin Filler #TFSURFA ○ 1 x 12mm Y Piece ○ 1 x LRA PG210 Switch Gauge ○ 4 x 3mm Heat Shrink Tube @ 25mm
Hoses	Cable Ties
<ul style="list-style-type: none"> ○ 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 	<ul style="list-style-type: none"> ○ 10 x 7" Cable Ties ○ 5 x 11" Cable Ties

Hose Clamps	Sender
<ul style="list-style-type: none"> ○ 8 x 1/4 Hose Clamps ○ 8 x 1/2 Hose Clamps ○ 4 x 1" 1/2 Hose Clamps 	<ul style="list-style-type: none"> ○ 1 x 0-90 OHMS Sender Unit c/w 500mm Earth lead
7 Page of Fitting Instructions Consisting Of:	Filters & Pumps
<ul style="list-style-type: none"> ○ 2 Page Fitting Instructions ○ 2 Page Fitting Kit Contents ○ 1 Page Installation Diagram INTSURF97A01 ○ 1 Page Installation Diagram INTSURF97A02 ○ 1 x Wiring Diagram LRAPG210 	<ul style="list-style-type: none"> ○ 1 x Fuel Pump & Filter ○ 1 x Fuel Pump Mounting Plate

Kit Packed By _____

Checked By _____

DISCARD THESE PARTS OF OEM FILLER



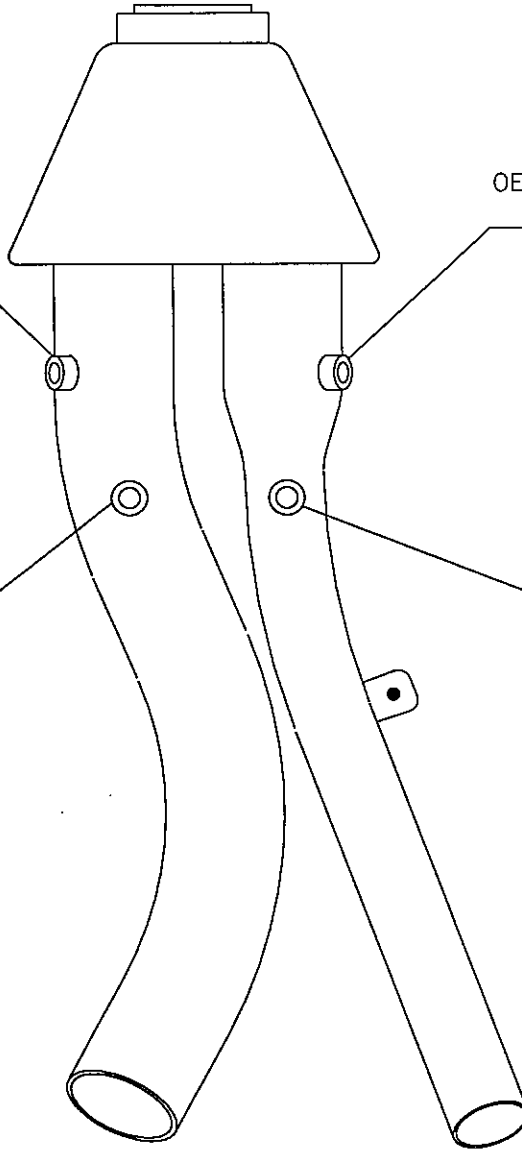
INTSURF97A01
TOYOTA SURF IMPORT
110 Lt AUX TANK

AUXILIARY FAST FILL
P6 1/2 X 1/4

OEM TANK FAST FILL
P6 1/2 X 1/4

AUXILIARY VENT
P6 1/4 X 1/4

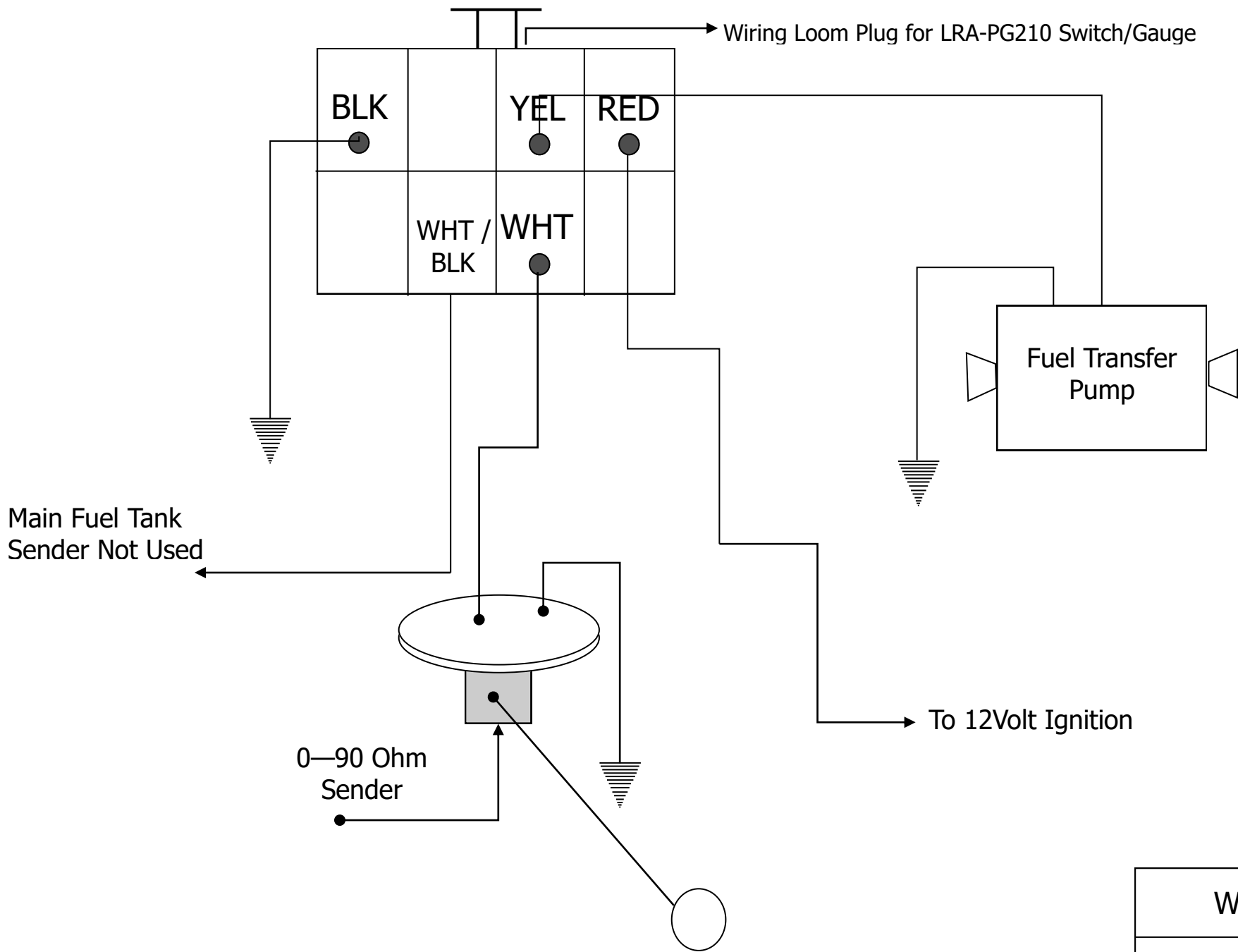
TRANSFER PUMP
P6 5/16 X 1/4



INTSURF97A02

TOYOTA SURF IMPORT

110 Lt AUX TANK



WDSGPG210