Installation Instructions for TLCZ75TA Toyota Landcruiser HZJ/FZJ 75/78 Tray 95L Auxiliary Tank

This auxiliary tank fits forward of the rear axle on the left hand side of the drive shaft and steps up and over the drive shaft to the right hand side. This tank requires the exhaust to be modified by changing the muffler to an oval shape 2 1/4" single off set type, lay vertically close to the LHS chassis rail. (See suggested exhaust modification notes attached). 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 an ORANGE light will be on, indicating that the transfer pump is in operation. A series of lights will also indicate fuel level. All GREEN lights ON showing FULL, one RED light flashing showing empty.

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

1. Locate an available blank in dash and install switch/gauge and wiring loom. Run wiring loom over to fuse box area, remove Right Hand kick panel and scuff plate. Locate grommet of approx. 25mm in diameter in floor, adjacent to scuff plate. Run twin core wire down through grommet and complete wiring as per diagram. (NOTE: A suitable 12 Volt ignition power source can be found at the back of the fuse box). Refit trim previously removed and neatly cable tie wires.

2. Disconnect park brake cable from rear wheels, also disconnect cable guides and cable guide out rigger from crossmember. Cut cable guide with rubber so that a square section of rubber remains around cable, (this will act as an insulator when cable is run through tank). Pull cable forward and leave hanging in front of crossmember. Remove and discard cable guide that was fixed to the top of the axle housing. Fit crossmember supplied over the top of the chassis rails, just forward of the suspension pump stops, (the left side of this crossmember measures 390mm from bolt centre to the end of the crossmember).

3. Check OHMS reading of gauge sender prior to installing tank and with the sender installed. Readings should be 0.5 - 2.5 @ EMPTY and 88 - 92 @ FULL (check full reading by inverting tank). Remove rear section of drive shaft (mark shaft and yoke for gaining correct alignment later on). Lift tank up into position, front mounting tags will sit on top of crossmember, the LH front mounting tag will line up with the

captive nut, then RH front mounting tag will use the small secondary bracket, this will then line up with a factory drilled hole in the front fact of the crossmember. Mount rear of tank to new crossmember and secure tank. Drill mounting holes in chassis for new crossmember and secure using M10 Bolt and nuts welded to straps.

4. Install all brass fitting to tanks, 1/2 x 1/4 fitting goes in socket next to filler, 1/4 x 1/4 fitting goes in expansion box socket and 5/16x1/4 elbow goes in pick up socket and points towards to RH side of the vehicle. Mount fuel transfer pump in a suitable position along the RH side. Install 12 x 12 x 8 T piece into OEM fast fill hose and 1/4 x 1/4 x 1/4 T piece into OEM vent hose between tank and check valve. (This can be found at the front left corner of the OEM tank). Connect vent and transfer hoses to T pieces, install filler neck, fill hose and fast fill hose. Connect any remaining hoses and wires and neatly cable tie them away from any moving parts or heat sources. Secure filler neck to tray with mounting bracket.

5. Refit park brake cable by feeding cable through tube in tank. Make sure to refit park brake cable guide to crossmember in front of tank, this will ensure that the cable doesn't contact the exhaust pipe. A new hole will need to be drilled in the guide strap to allow it to fit. Refit rear section of drive shaft, check park brake operation, fill with fuel and check operation of transfer pump and fuel gauge, also check for leaks.

NOTE: USE HIGH QUALITY SEALER ON ALL JOINTS AND FITTINGS E.G. PERMATEX 3J

FITTING KIT CONTENTS TLCZ75TA

Brass:	Electrical:
○ 1 x P14 1/4 x 1/4 6mm Tee ○ 1 x P6 5/16 x 1/4 8mm Elbow ○ 1 x P3 1/2 x 1/4 12mm Straight ○ 1 x P6 1/2 x 3/8 Elbow (For Filler) ○ 1 x 12mm x 8mm Reducing Tee ○ 1 x P3 1/4 x 1/4 6mm Straight	○ 1 x LRA-PG210 Switch/Gauge ○ 1 x 3mm 2 Core Wire @ 4000mm ○ 1 x 4mm Single core Blue Wire @300 ○ 1 x 5AMP Fuse ○ 1 x Fuse Holder ○ 2 x Fuse Holder Terminals ○ 1 x Red Insulated Terminal ○ 1 x 8mm Blue Earth Eye ○ 1 x 6mm Blue Earth Eye ○ 4 x 3mm Heat Shrink
Bolts / Nuts:	**Misc Parts:**
○ 5 x M5 x 10mm Pan Head Screws ○ 4 x M10 x 30mm Bolt ○ 4 x M10 Nyloc Nut ○ 8 x M10 x 25mm Washers ○ 2 x M10 Spring Washers ○ 2 x M8 x 25 Bolt ○ 2 x M8 Flat Washer ○ 2 x M8 Spring Washer ○ 3 x M5 x 12 Pan Head Screws ○ 3 x M5 Nuts ○ 2 x M6 x 16 Bolts ○ 2 x M6 Nuts ○ 2 x M6 Washers ○ 2 x M6 Spring Washers	○ 1 x 44mm Straight Filler Neck & Locking Cap ○ 1 x Filler Neck Mounting Plate ○ 1 x Front Secondary Bracket ○ 1 x Rear Cross Member with Bolts Welded On ○ 2 x 30 x 25 Plate with M10 Nut and 300mm Wire Attached ○ 1 x 6mm Conduflex @ 1400mm
Hose Clamps:	**Cable Ties:**
○ 10 x 1/4" Hose Clamps ○ 4 x 1/2" Hose Clamps ○ 2 x 1 1/2" Hose Clamps	○ 12 x 7" Cable Ties ○ 2 x 11" Cable Ties

Sender:	Pumps & Filters:
○ 1 x VDO Sender 220-004 With 900mm Earth Wire Soldered On	○ 1 x Fuel Pump ○ 1 x Z14K Fuel Filter
Hose:	**8 Pages of Fitting Instructions Consisting of:**
○ 1 x 44mm Fuel Hose @ 400mm ○ 1 x 12mm CMP Hose @ 450mm ○ 1 x 8mm Fuel Hose @ 2000mm ○ 1 x 6mm Fuel Hose @ 2250mm	○ 2 x Pages Fitting Instructions ○ 2 x Pages Fitting Kit Contents ○ 1 x Page Exhaust Modification Instructions ○ 1 x Page Exhaust Pipe Bending Instructions ○ 1 x Page Exhaust Modification Diagram ○ 1 x Page WDSGPG210 Diagram

Kit Packed By_____ Checked By _____

Installation Instructions for TLCZ75TA
EXHAUST MODIFICATIONS

1. Remove muffler and tail pipe assembly.

2. Cut exhaust pipe cross-over section. Measure 220mm from inside edge of RH chassis, mark and cut pipe as shown in FIG. 1. (Attached)

3. Cut tail pipe near tail pipe hanger bracket over axle housing as show in FIG. 2. (Attached)

4. Cut flanges off OEM muffler and pipe. These will be re-used on new exhaust pipe section and on inlet of new muffler.

5. Slide flanges previously removed, into new bent exhaust pipe and into offset end of muffler. Slide short section of exhaust pipe into outlet of muffler and then slide reduced end of this short pipe into tail pipe.

6. Assemble all pipes and muffler - (new holes will need to be drilled in crossmember to mount insulator). Check for clearance to chassis and give muffler a true vertical rotation. Tack all joins, remove and weld out all joints. Re-fit to vehicle weld first joint to engine pipe start vehicle and check for leaks.

- MUFFLER USED: 2 1/4" Single Offset
- See Attached Pipe Bending Instructions

EPTLC78-1

YEAR	DIAMETER 58	DIA LENGTH 840	SIDE

BEND #	1	2	3	4	5	6	7	8	9
SYMBOLS									
CENTER MARKS	210	470	640	840					
PIPE ROTATION		90	180	|					
BEND DEPTH	105	18	20	|					

BENDING INSTRUCTIONS:-

| EXPAND TO 65 O.D.

MAKE:	MODEL:
78 SERIES CAB CHASSIS	

EPTLC78-2

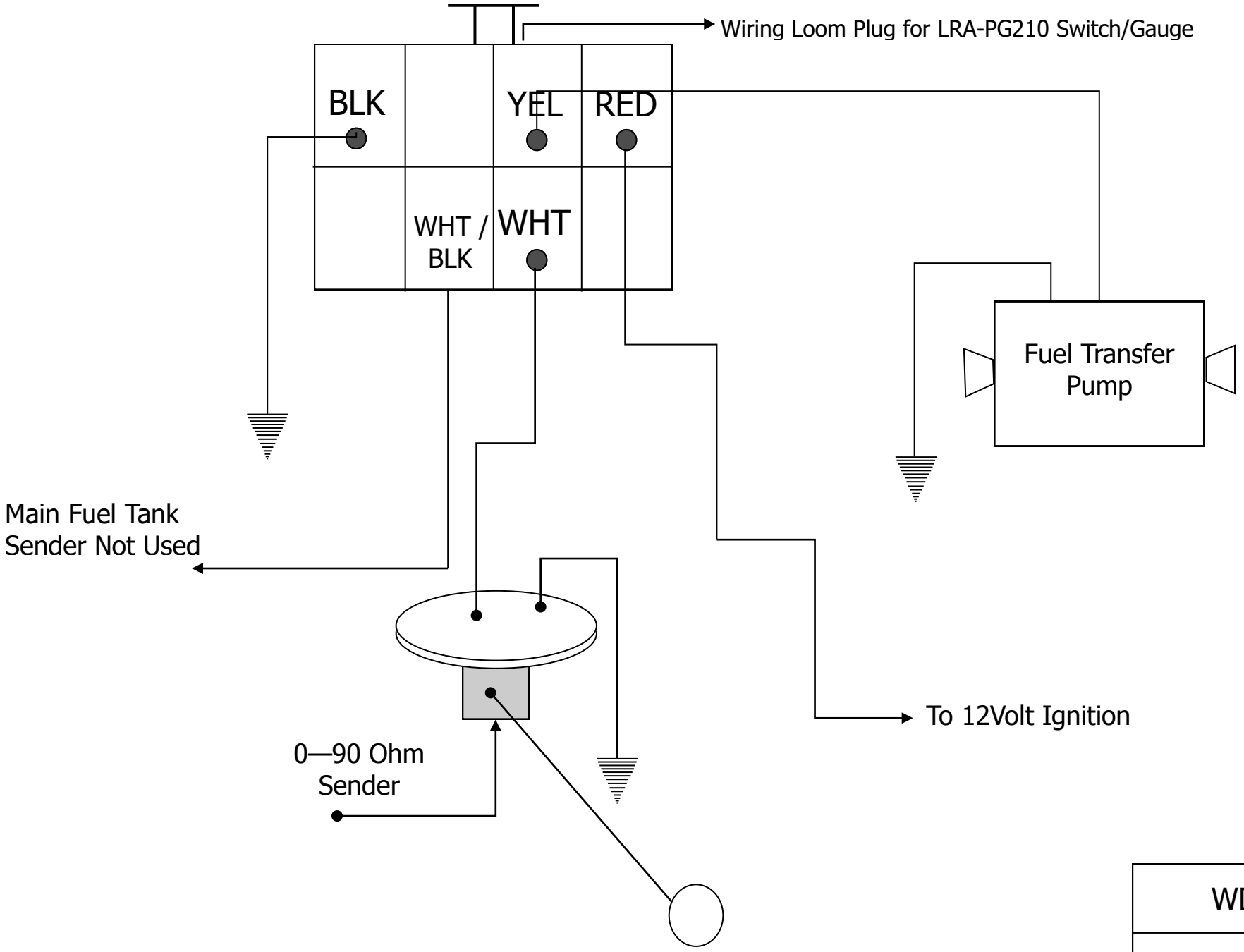
YEAR	DIAMETER 58	DIA LENGTH 350	SIDE

BEND #	1	2	3	4	5	6	7	8	9
SYMBOLS									
CENTER MARKS	0								
PIPE ROTATION	|								
BEND DEPTH	|								

BENDING INSTRUCTIONS:-

| REDUCE 10MM ONLY OF PIPE TO 50MM O.D.

MAKE:	MODEL:
78 SERIES CAB CHASSIS	


Wiring Loom Plug for LRA-PG210 Switch/Gauge
BLK
YEL
RED
WHT / BLK
WHT
Fuel Transfer Pump
Main Fuel Tank Sender Not Used
To 12Volt Ignition
0—90 Ohm Sender

WDSGPG210