Installation Instructions for TLC200RA Toyota Landcruiser 200 Series 170L Auxiliary Tank

This auxiliary tank fits under the rear of the vehicle and takes place of the spare wheel.
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 the transfer pump is in operation. A series of lights will also indicate fuel level. All GREEN lights on showing FULL, one RED flashing light showing EMPTY.

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

1. Select a suitable location in the dash to mount the switch/gauge unit. We suggest loading it into one of the switch blanks. A 12 volt ignition source can be found under the bonnet in the loom that goes to the wiper motor (black wire). Complete the wiring as per diagram and run the twin core sheathed cable under the scuff plates and behind the 1/4 panel trim then out through the grommet in the jack storage area. The fuel transfer pump can be mounted on the inner wheel arch panel. Leave enough wire to rear the sender unit.

2. Remove the R/H wheel arch cover and remove the spare wheel and carrier.

3. Above the differential, locate the bracket that joins the fill pipe and the fast fill vent pipes together, using the rear edge of this bracket as a reference point, measure and mark 520mm on the fill pipe and 75mm on the fast fill vent pipe, these are the points that need to be cut. Remove the fill pipe and cut at the marked points. Make sure there are no sharp edges and refit to vehicle. On the twin filler neck, screw the P6 5/8 x 3/8 elbow in the auxiliary fast fill socket and the P6 1/2 x 3/8 elbow into the main tank fast fill socket. Screw the P6 5/16 x 1/8 elbow into the main tank fill pipe,

this becomes the transfer port. Fit new neck in place and connect to fill pipe with 80mm length of 35mm fuel hose.

4. Using the mounting bar for reference, drill out the 8mm (lower) and 10mm (upper) holes and bolt mounting bar in place using bolts with straps attached washers and Nyloc nuts. The 5mm bar end packers are for the two front holes.

5. Screw the P6 5/16 x 1/4 elbow into the fuel pick up and point towards the filler neck, fit 120mm length of 8mm hose to pick up. Screw the P3 5/8 x 3/8 straight fitting into the filler neck side of the tank.

6. Slip the U-bolts over the crossmember. Jack the tank into position (don't forget to connect the sender unit wire) and secure the front with M10 Nyloc nuts and washers and the rear with M12 bolts Nylocs and heavy duty washers.

7. Connect the filler to the filler neck and connect the 2 fast fill vent hoses. Connect the fuel pick up line to the inline filter then to the inlet side of the transfer pump, then the outlet side of the pump goes to the transfer port fitting in the filler neck.

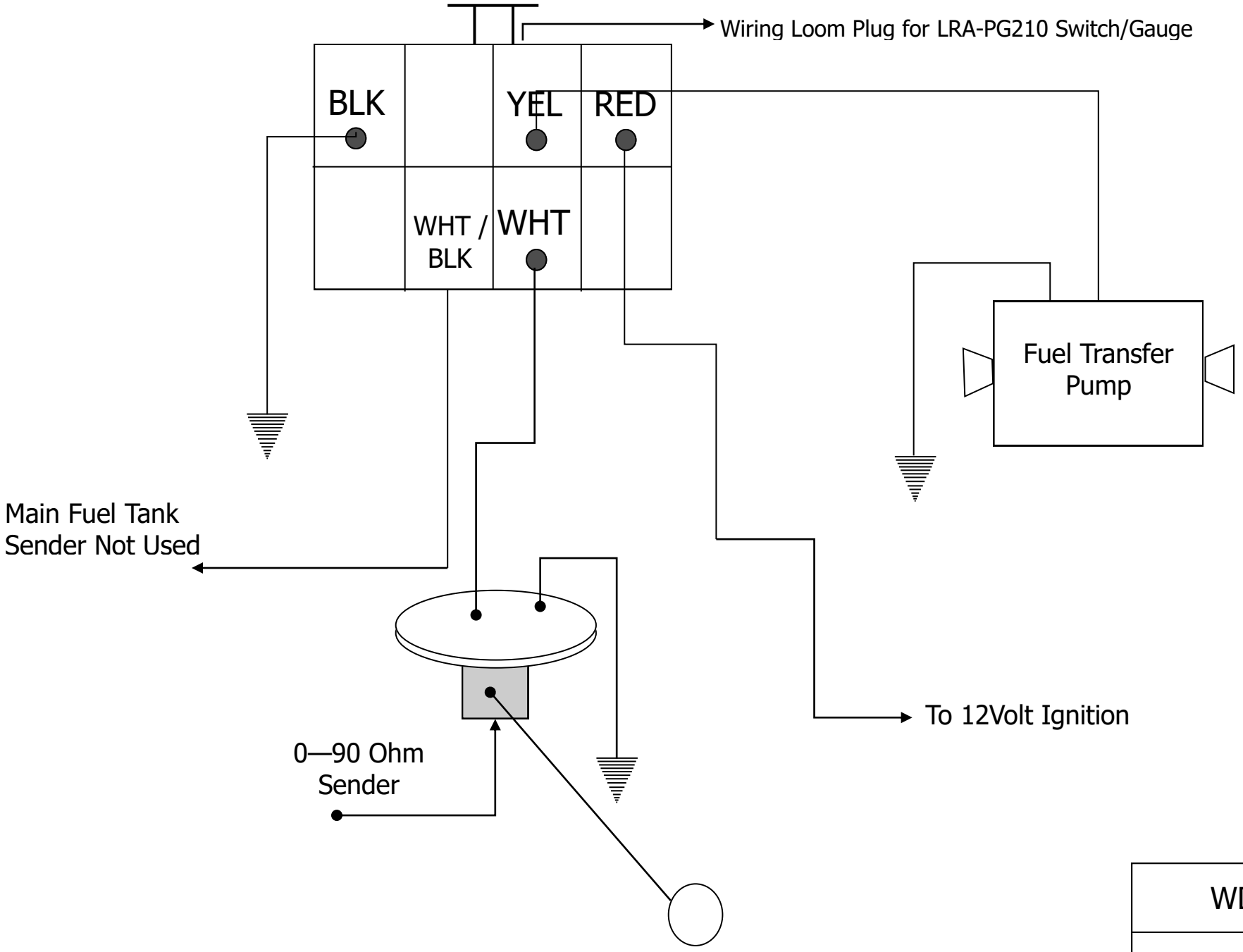
8. Neatly cable tie all the hoses and wiring. Check over all hoses and connections then replace wheel arch cover. Fill with fuel and test transfer pump operation.

FITTING KIT CONTENTS TLC200RA

Brass:	Electrical:
○ 1 x P6 x 5/16 x 1/4 8mm elbow ○ 1 x P6 5/16 x 1/8 8mm elbow ○ 1 x P3 5/8 x 3/8 16mm straight ○ 1 x P6 5/8 x 3/8 16mm elbow ○ 1 x P6 1/2 x 3/8 12mm elbow	○ x LRA-PG210 switch gauge ○ 1 x 3mm two core @ 6m ○ 2 x 3mm single core Red @ 300mm ○ 1 x 4mm Single core Blue Wire @300mm ○ 1 x 5AMP Fuse ○ 1 x Fuse Holder ○ 2 x Fuse Holder Terminals ○ 2 x Red insulated terminal ○ 1 x Red eye terminal ○ 3 x Blue 6mm eye terminal ○ 3 x 3mm shrink tube @ 30mm
Bolts / Nuts:	**Misc Parts:**
○ 1 x M8 x 25mm bolt ○ 2 x M12 x 30mm bolt ○ 3 x M8 x 20mm washer ○ 1 x M8 spring washer ○ 10 x M10 x 25mm washer ○ 4 x M12 x 30mm H/Duty Washer ○ 2 x M8 Nyloc nut ○ 10 x M10 Nyloc nut ○ 2 x M12 Nyloc nut ○ 1 x 25mm TEK screw ○ 2 x 30mm pan head TEK screw	○ 1 x Twin Filler #TF200TLC (Petrol/Diesel) ○ 2 x 5mm bar end packers ○ 1 x Rear mounting bar ○ 3 x M10 x 85mm center U bolt ○ 1 x M10 x 30mm bolt with 5mm x 300mm strap ○ 2 x M10 x 30mm bolt with 5mm x 150mm strap ○ 2 x M8 x 30mm bolt with 5mm x 150mm strap
Hose Clamps:	**Hose:**
○ 6 x 1/4 hose clamp ○ 2 x 1/2 hose clamp ○ 2 x 5/8 hose clamp ○ 4 x 1 1/4 hose clamp	○ 1 x 8mm fuel hose @ 350mm ○ 1 x 8mm fuel hose @ 1200mm ○ 1 x 12mm fuel hose @ 860mm ○ 1 x 16mm fuel hose @ 550mm ○ 1 x 35mm fuel hose @ 80mm ○ 1 x 35mm fuel hose @ 100mm

Pumps & Filters:	Cable Ties:
○ 1 x Fuel Pump & Filter ○ 1 x Fuel Pump Mounting Plate	○ 12 x 7” Cable ties ○ 3 x 11” Cable ties
Sender:	5 Pages of Fitting Instructions Consisting of:
○ 1 x 0-90 OHM sender unit with 700mm earth attached	○ 2 Pages fitting instructions ○ 2 Pages fitting kit contents ○ 1 page WDSGPG210

Kit Packed By_____ Checked By _____


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