Installation Instructions for TLC200SA
Toyota Landcruiser 200 Series
60L Auxiliary Tank

This auxiliary tank fits under the rear of the vehicle and retains the spare wheel in the same location as the GXL model.

The filler will be replaced with a new twin filler allowing you to fill either the main or the auxiliary tank.

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 in a suitable position in the dash. When the switch is in operation an ORANGE light with 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 reach the sender unit.

2. Remove the R/H wheel arch cover and remove the spare wheel and carrier. Trim the small bracket from the rear spare wheel bump bar. The spare wheel bump bar needs to be bent down by 25mm. (To allow the tyre to pull up properly). There are two brackets at the rear of the floor pan stiffening braces either side of the wheel winder, these need to be trimmed flush also.

3. Above the differential, locate the bracket that joins the fil 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 the vehicle. On the twin filler neck screw

the P6 5/8 x 3/8 elbow into 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 the new neck in place and connect to fill pipe with 80mm length of 35mm fuel hose.

4. Bolt the new L/H secondary bracket in place (just forward of the rear most exhaust hanger) using the M10 x 30mm bolts with straps, washers and Nyloc nuts. (You will need to drill the rear holes to 10.5mm because it is a slot).

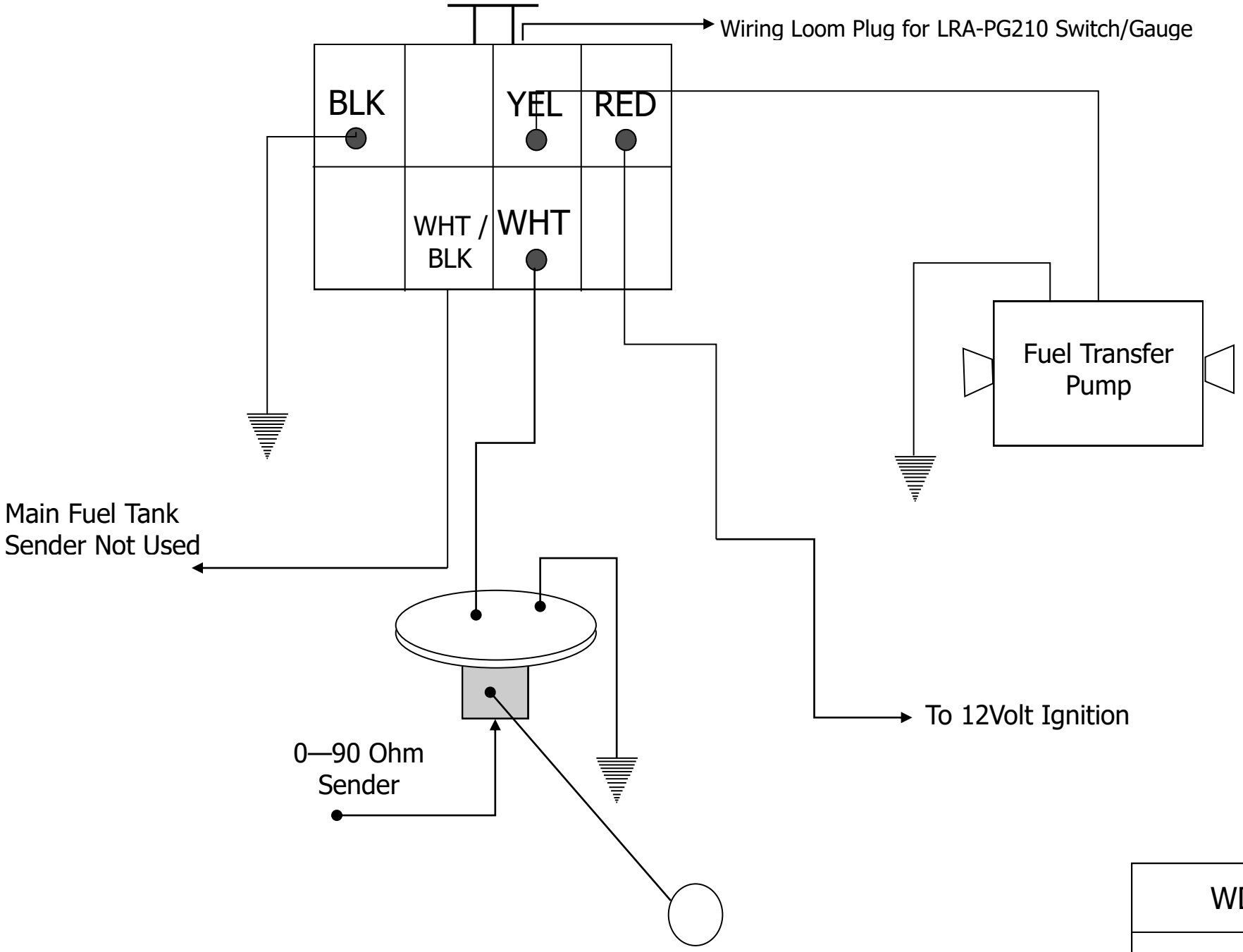
5. Screw the P6 5/16 x 1/4 elbow into the fuel pick up and point upwards, fit 1000mm length of 8mm hose to pick up. The remaining P3 5/8 x 3/8 straight fitting is the fast fill vent fitting on the side of the tank.

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 R/H rear with M10 bolt Nyloc and washers. Bolt the R/H secondary bracket in place using the remaining M10 x 30mm bolts with straps, washers and Nyloc nuts, secure to the tank with M8 x 25mm bolts, washers and Nyloc nuts.

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. Notch the center of the ends of the wheel carrier to allow access to the center bolt. Bolt the wheel carrier in the lower position and secure with original bolts and 2 M8 x 25mm bolts with straps. Replace the front spare wheel bracket with the new one from the kit. Check that the spare wheel pump bar is just below the rear of the tank.

9. Neatly cable tie all hoses and wiring, check over hoses and connections. Replace wheel arch cover. Fill with fuel and test transfer pump operation. Refit spare wheel.


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

FITTING KIT CONTENTS TLC200SA

Brass	Sender
○ 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	○ 1 x 0-90 OHM sender unit with 700mm earth attached ○ 1 x Z14 Filter ○ 1 x Pump
Bolts / Nuts	**Misc Parts**
○ 2 x M8 x 25mm bolts ○ 8 x M8 x 20mm washers ○ 12 x M10 x 25mm washers ○ 4 x M8 Nyloc nuts ○ 11 x M10 Nyloc nuts ○ 3 x M10 x 85mm center U-bolt ○ 2 x 30mm pan head TEK screws ○ 1 x 25mm pan head TEK screw ○ 1 x M10 x 30mm bolt	○ 1 x Twin filler ○ 4 x M10 x 30mm bolt with 5mm x 150mm strap ○ 2 x M8 x 25mm bolt with 5mm x 150mm strap ○ 1 x R/H Sec bracket ○ 1 x L/H Sec bracket ○ 1 x Spare wheel bracket 4 Pages Fitting Instructions Consisting of: ○ 2 Page Fitting Instructions ○ 1 Page Fitting Kit Contents ○ 1 Page WDSGPG210
Hose	**Cable Ties**
○ 1 x 8mm fuel hose @ 350mm ○ 1 x 8mm fuel hose @ 1000mm ○ 1 x 12mm fuel hose @ 860mm ○ 1 x 16mm fuel hose @ 550mm ○ 1 x 35mm fuel hose @ 80mm ○ 1 x 35mm fuel hose @ 100mm	○ 12 x 7” Cable ties ○ 3 x 11” Cable ties

Hose Clamps	Electrical
○ 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 LRA-PG210 Switch gauge ○ 1 x 10 Amp fuse & holder ○ 2 x 3mm single core red @ 300mm ○ 1 x 3mm two core @ 6m ○ 2 x red insulated terminals ○ 1 x red eye terminal ○ 1 x blue 6mm eye terminal ○ 3 x 3mm shrink tube @ 30mm

Kit Packed By_____ Checked By _____