



Installation Instructions for JWTJA03 Jeep Wrangler 2003 + 45L Auxiliary Tank

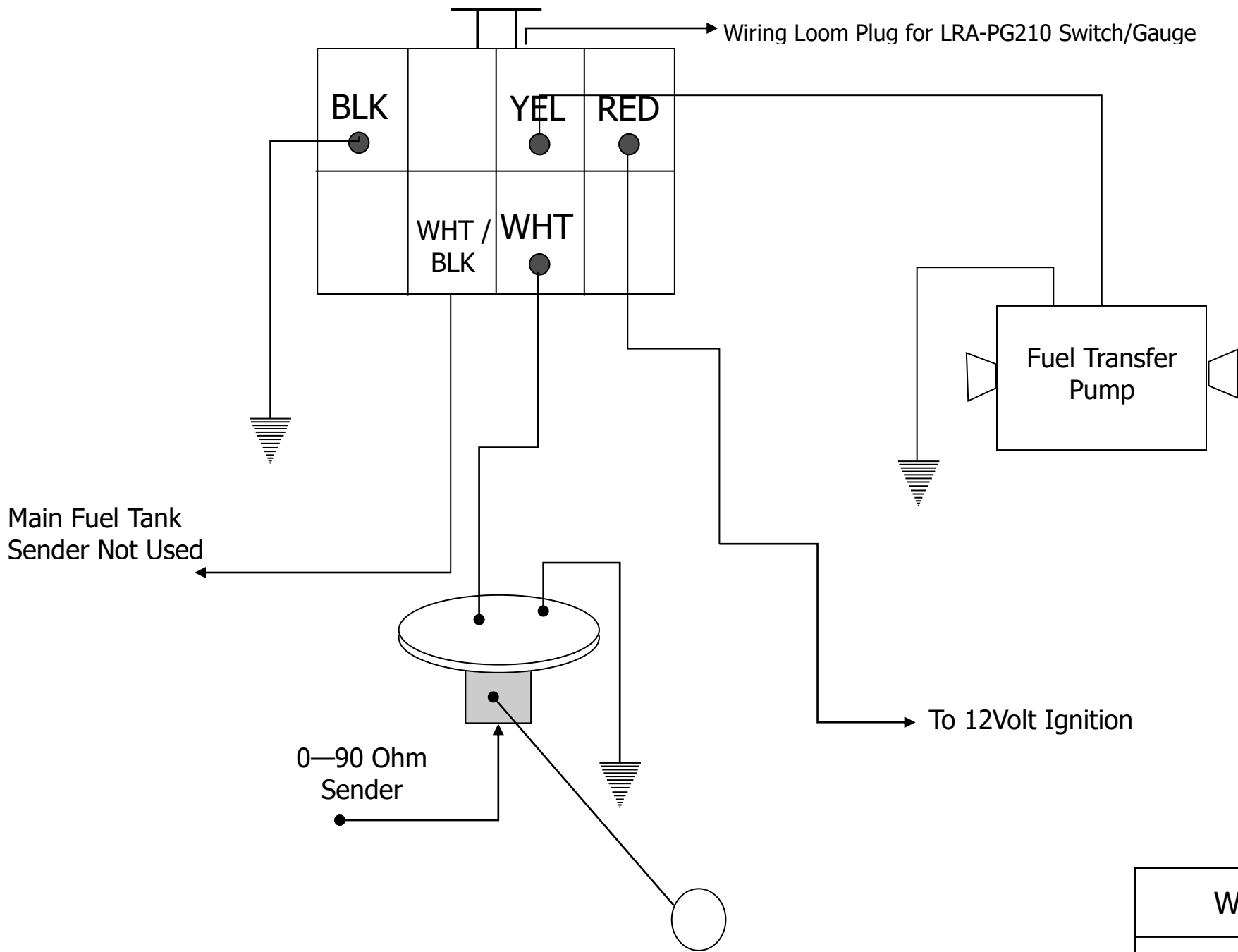
This tank fits up in front of the rear axle assembly on the left hand side of the vehicle. The system operates via a transfer system, whereby the fuel is pumped from the Auxiliary Tank into the main tank. A switch/gauge is located into the dash adjacent to the ignition switch. When the switch is in operation an ORANGE light with ON, indicating that the transfer pump is in operation. A series of lights will also indicate fuel level. All GREEN lights showing FULL, one RED light flashing showing EMPTY. Filling of the auxiliary tank is possible via a new twin filler which replaces the original filler.

(NOTE: DO NOT OPERATE THE PUMP FOR EXTENDED PERIODS OR WHEN TANK IS EMPTY OR PUMP DAMAGE WILL OCCUR)

1. Remove panel below steering column. Mount switch/gauge into flat section of panel adjacent to ignition switch. Run twin core wire through a suitable grommet in firewall. Locate a suitable 12V ignition power supply and connect all wires as per diagram, refit dash panel.
2. Remove LH Rear mud flap and inner wheel arch liner, remove OEM filler neck, leaving hoses on fuel tank. Cut braided earth strap at OEM filler neck, (this will later be clamped to new twin filler). Lift new twin filler up into place and mark holes to be drilled in flange, this new twin filler will be mounted using pan head TEK screws (OEM SCREWS WILL BE TOO LONG). Install fittings to new twin filler. P6 5/16 x 1/4 fitting goes into socket for main tank fill tube, this is the fuel transfer port. The two sockets side by side on the flat face of the filler are for the fast fill hoses and fittings P6 5/8 x 1/4. The remaining socket is for the auxiliary tank vent hose, use P6 1/4 x 1/4 fitting. Once all fittings have been installed secure twin filler into filler bucket.
3. Loosen OEM tank mounts and allow tank to drop approx. 25mm. Install new steel fill pipe, the end with the 70° bend goes to the rear and points up towards the twin filler. The steel fill pipe runs between the top of the rear shocker mount and the fuel tank, this is a tight path, but the pipe will fit. Once the pipe is in place re-secure OEM fuel tank. Auxiliary tank fast fill hose, vent hose and transfer hoses can now be run on the same path as the steel fill pipe, all of these hoses will need to be run inboard

of the steel pipe. Connect fill pipe and twin filler using 100mm length of 32mm hose, the fast fill hose for the auxiliary tank is connected to the rear fast fill port, the OEM fast fill hose will need to be extended using the steel 16mm tube and short section of hose supplied.

4. The fuel pump can now be mounted. A good location for this is just behind the wheel arch panel and under the twin filler, this spot provides maximum protection when everything is re-assembled. Install vent hose and T piece to join both roll-over valves on new tank, as per diagram. Check gauge sender readings for full and empty, this can be done by inverting the tank. A Full reading should be 89-92 OHMS, empty reading should be 0.5-2 OHMS.
5. Remove rear sway bar (this will later be re-fitted). Lift L/H front seat forward and lift up floor coverings to prevent damage when drilling holes. Lift tank up into position, ensure clearance from tail shaft and a small amount of clearance from chassis. Drill holes and secure tank. Connect all remaining hoses and wires, mount fuel filter close to fuel tank to allow easy access. Refit all trim previously removed, fill with fuel and check for leaks.



WDSGPG210



FITTING KIT CONTENTS JWTJA03

Brass <ul style="list-style-type: none"> ○ 3 x P6 5/16 x 1/4 elbow ○ 2 x P6 5/8 x 1/4 elbow ○ 1 x P3 1/4 x 1/8 straight ○ 1 x P7 5/16 hose joiner 	Electrical <ul style="list-style-type: none"> ○ 1 x 3mm two core wire @ 5000mm ○ 3 x blue eye terminals ○ 1 LRA-PG210 switch/gauge unit ○ 1 x red insulated terminal
Bolts / Nuts <ul style="list-style-type: none"> ○ 4 x M10 x 30 bolts ○ 4 x M10 flat washers ○ 4 x M10 Nyloc nuts ○ 5 x M5 x 10 pan head screws (for sender) ○ 4 x pan head TEK screws ○ 1 x hex head TEK screws 	Misc Parts <ul style="list-style-type: none"> ○ 4 x 3mm heat shrink @ 25mm ○ 1 x steel fill pipe #FPJWAUX ○ 1 x roll over valve ○ 1 x roll over valve grommet ○ 1 x locking cap ○ 1 x twin filler #TFJWAUX-03 ○ 1 x floor plate 100 x 100 x 3mm with 10mm hole ○ 1 x floor plate 100 x 80 x 3mm with 10mm hole ○ 1 x front floor plate 200 x 40 x 3mm profile cut with 2 x 10mm holes
Hose Clamps <ul style="list-style-type: none"> ○ 11 x 1/4" hose clamps ○ 2 x 5/8" hose clamps ○ 5 x 1 1/4" hose clamps ○ 1 x 1" hose clamps 	Cable Ties <ul style="list-style-type: none"> ○ 4 x 7" cable ties ○ 5 x 11" cable ties ○ 5 x 14" cable ties
Hose <ul style="list-style-type: none"> ○ 1 x 6mm hose @ 1500mm ○ 1 x 8mm hose @ 1500mm ○ 1 x 16mm hose @ 1200mm ○ 1 x 32mm hose @ 100mm ○ 1 x 32mm hose @ 150mm 	Sender <ul style="list-style-type: none"> ○ 1 x 220-004 VDO sender in tank with 600mm earth lead
Filters <ul style="list-style-type: none"> ○ 1 x Z14K filter ○ 1 x fuel pump 	Instruction Pages <p>4 pages fitting instructions consisting of:</p> <ul style="list-style-type: none"> ○ 2 x pages fitting kit contents ○ 2 x page fitting instructions ○ 1 x drawing #WDSPG210

Kit Packed By _____

Kit Checked By _____