



Installation Instructions for F250DCSBA Ford F250 Dual Cab Short Bed V8 Diesel 125L Auxiliary Tank

This 125L Auxiliary Tank fits up on the RHS of the vehicle in front of the rear axle. The exhaust system will need to be re-worked so that the muffler is on the outside of the chassis rail. 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. Mount switch/gauge into a suitable place in the dash. Remove LH kick panel and scuff plate, run twin core wire out through floor at rear of cabin, connect all wires as shown in wiring diagram and refit trim.
2. Remove original filler. Screw fittings into new twin filler P6 5/8 x 3/8 fittings go into the sockets on the angled faces of the twin filler. The P6 5/16 x 1/4 fitting goes into the socket in the main tank fill pipe, this is the transfer port. The remaining socket is the vent, this takes the P6 1/4 x 1/4 fitting. Lift new twin filler up into place and mark mounting holes in flange, drill holes in flange to enable the original screws to be re-used. Secure new twin filler in place and re-connect the original fill hose and the original fast fill hose by using the 19mm to 16mm reducer and the short length of 16mm NTP hose. Connect fill pipe for auxiliary tank to remaining pipe on twin filler. This fill pipe runs over the top of the original fuel tank.
3. Remove sections of exhaust system and heat shielding from under the vehicle in the tank mounting area. Lift tank up into position and, (using mounting straps as a template), mark where holes need to be drilled in RH chassis rail and cross members. (**NOTE:** Tank needs to be mounted as close as possible to the RH chassis rail to ensure tail shaft clearance when suspension is articulated). Drill strap mounting holes at previously marked points and install M10 x 30 Bolt and stiffening plate to front inner strap, mount tank and the remaining 3 x M10 bolts with plates welded to them, to the remaining holes. Install brass fitting to tank, P6 3/8 x 1/4

fitting goes into the pick-up socket on the top of the tank and points towards the left hand side of the vehicle, as does the vent hose fitting. Install vent and pickup hoses to these fittings. Glue rubber straps to underside of cross members in tank seating area. The 100mm long strap is glued to the flat section of the rear crossmember.

4. Check gauge sender OHMS readings by rolling tank. **EMPTY** should be 0.5 - 2.5 OHMS, **FULL** should be 88 - 93 OHMS. If readings are outside this window, correct fault. Lift tank up into position and secure using straps, plain and nyloc nuts. Mount transfer pump on left hand side of body, P3 3/8 x 1/8 fitting is for fuel pump inlet. Connect all hoses to their correct points. Complete any remaining wiring, neatly cable tie wiring and hoses away from any moving parts or heat sources. Fill with fuel and check for leaks. Also check gauge and pump operation.

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



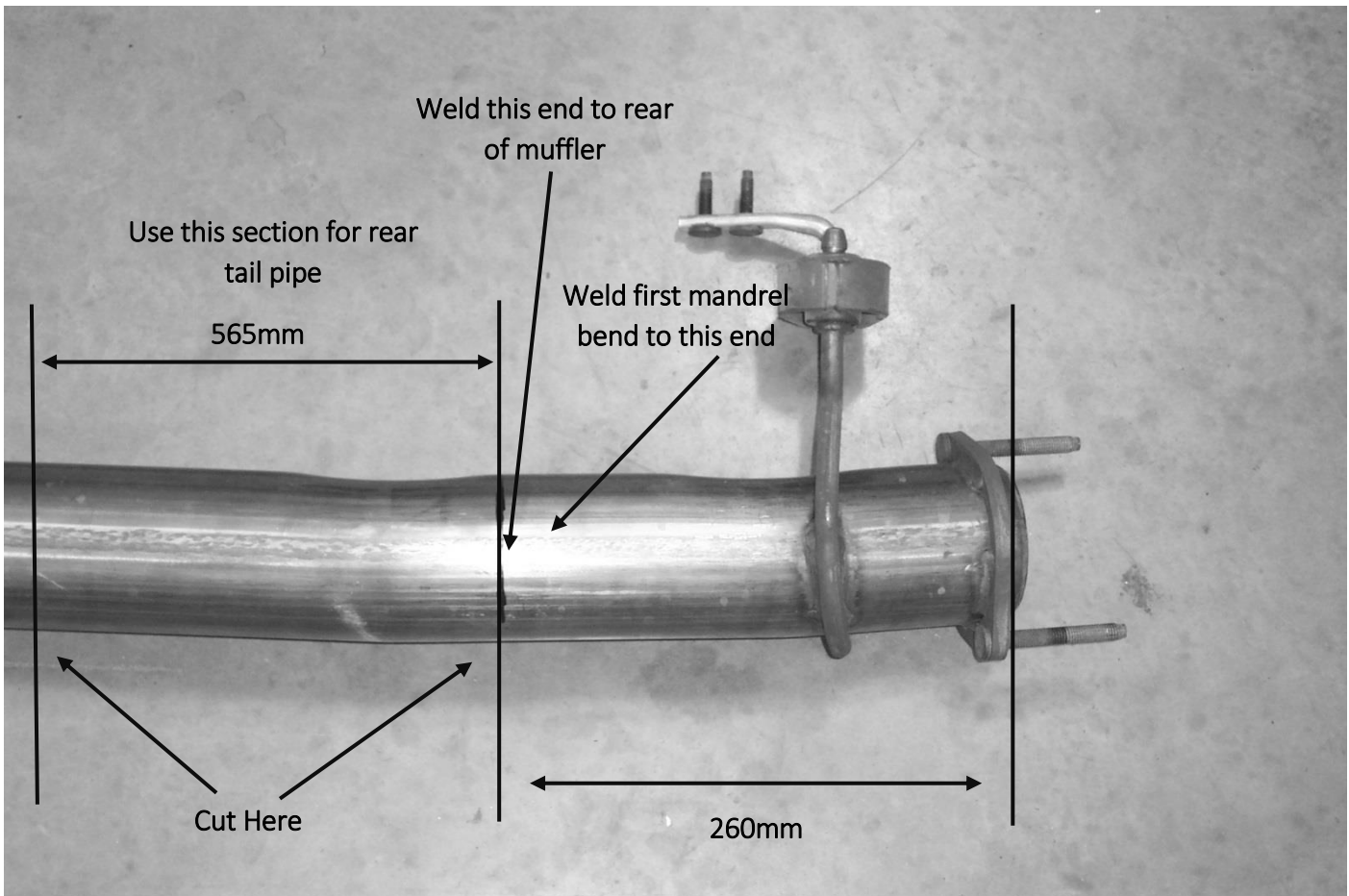
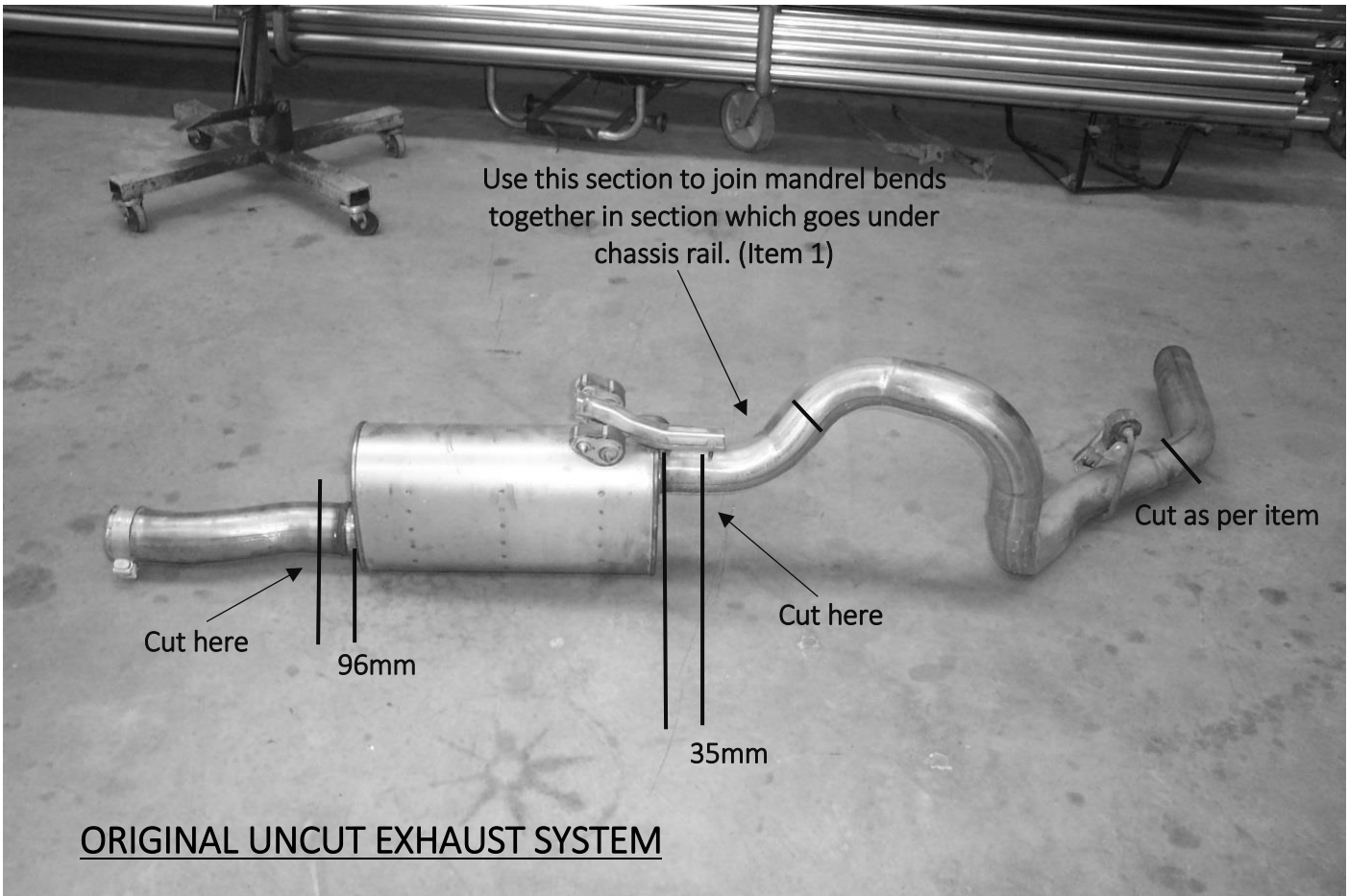
FITTING KIT CONTENTS F250DCSBA

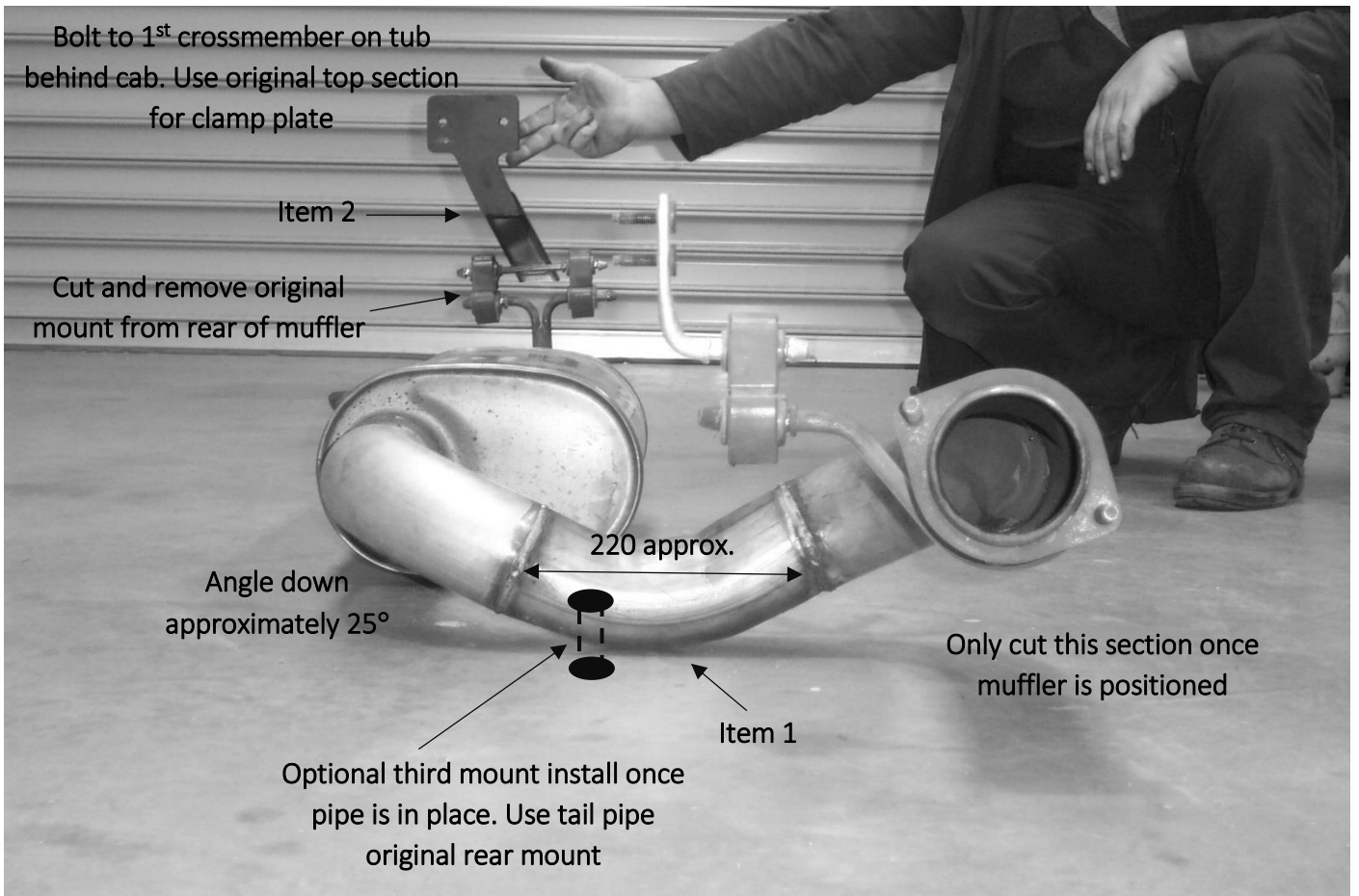
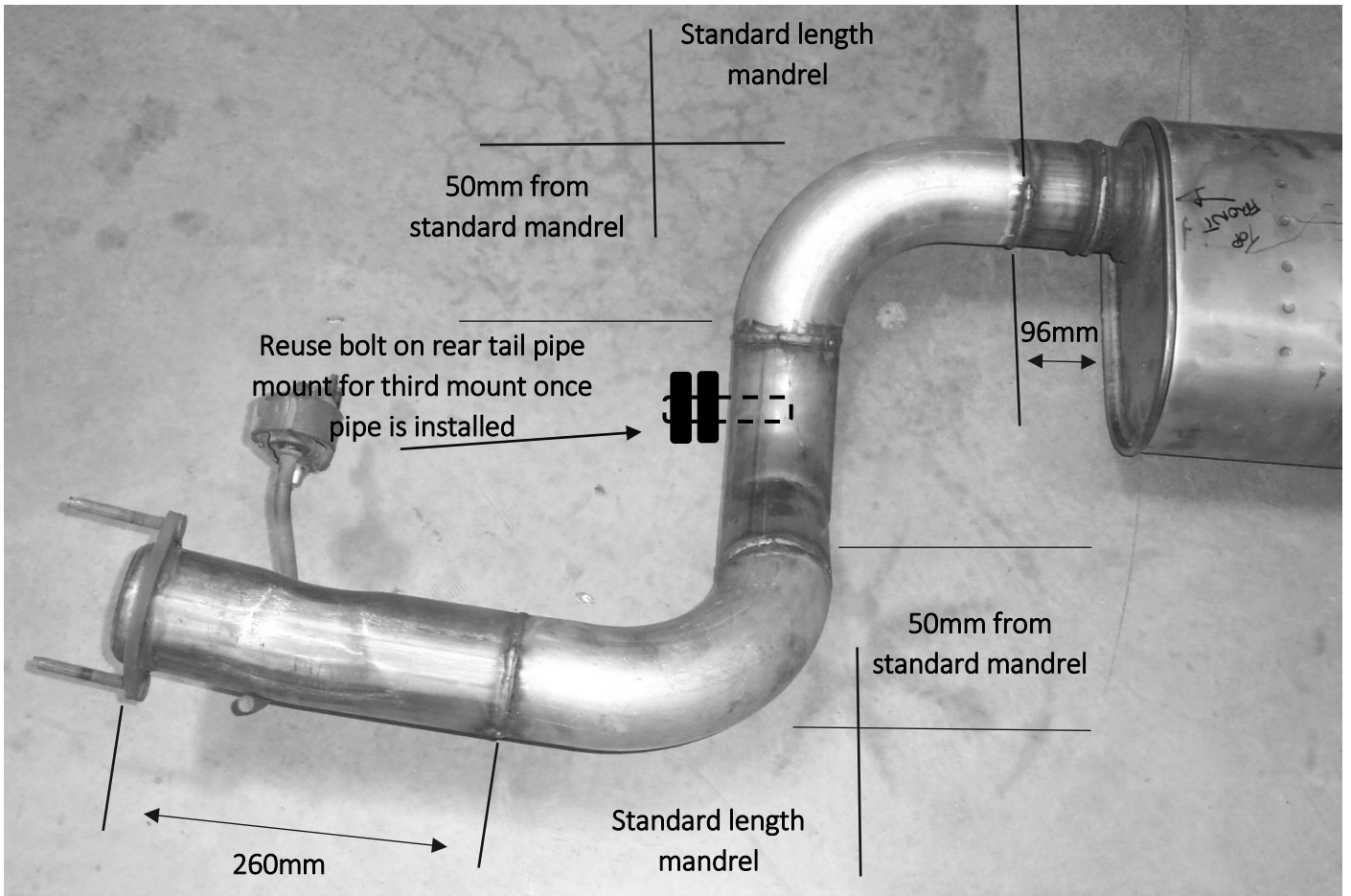
Brass: <ul style="list-style-type: none"> ○ 1 x P6 1/4 x 1/4 Elbow ○ 2 x P6 5/16 x 1/4 Elbow ○ 1 x P3 5/8 x 1/4 Straight ○ 2 x P6 5/8 x 3/8 Elbow ○ 1 x P6 1/4 x 1/8 Elbow 	Electrical: <ul style="list-style-type: none"> ○ 1 x LRA-PG210 Switch/Gauge ○ 1 x 3mm Two Core Wire @ 5500mm ○ 3 x 6mm Blue Eye Terminals ○ 1 x Red Male Terminal ○ 2 x Red Female Insulated Terminals
Bolts / Nuts: <ul style="list-style-type: none"> ○ 1 x M10 x 30 Bolt ○ 4 x M10 Flat Washers ○ 4 x M10 Nyloc Nuts ○ 4 x M10 Nuts ○ 5 x M5 x 10 Pan Head Screws ○ 4 x TEK Screws (for Filler Neck) 	Misc Parts: <ul style="list-style-type: none"> ○ 1 x Twin Filler Assembly #TFFSERAUX ○ 1 x Fill Pipe #FPFSERAUX ○ 1 x P3 5/8 x 1/4 Straight Screwed into Uncut Socket used as Fast Fill Reducer ○ 3 x 5 x 50 x 250 Rubber Strips ○ 1 x 50 x 5 x 100 Rubber Strips ○ 5 x 32 x 50 x 5 Strap Reinforcing Plates With 10.5mm Hole ○ 3 x 40 x 50 x 5 Plates With M10 x 40 Bolts Welded In ○ 2 x Tank Mounting Straps ○ 2 x 3 1/2" Mandrel Exhaust Bends ○ 1 x Exhaust Mounting Bracket
Hose Clamps: <ul style="list-style-type: none"> ○ 8 x 1/4" Hose Clamps ○ 4 x 5/8" Hose Clamps ○ 4 x 1 1/2" Hose Clamps 	Cable Ties: <ul style="list-style-type: none"> ○ 7 x 7" Cable Ties ○ 8 x 11" Cable Ties
Sender: <ul style="list-style-type: none"> ○ 1 x VDO 220-004 Sender Set Up in Tank With 500mm Earth Lead Soldered On 	Pumps & Filters: <ul style="list-style-type: none"> ○ 1 x Z14K Filter ○ 1 x Fuel Pump

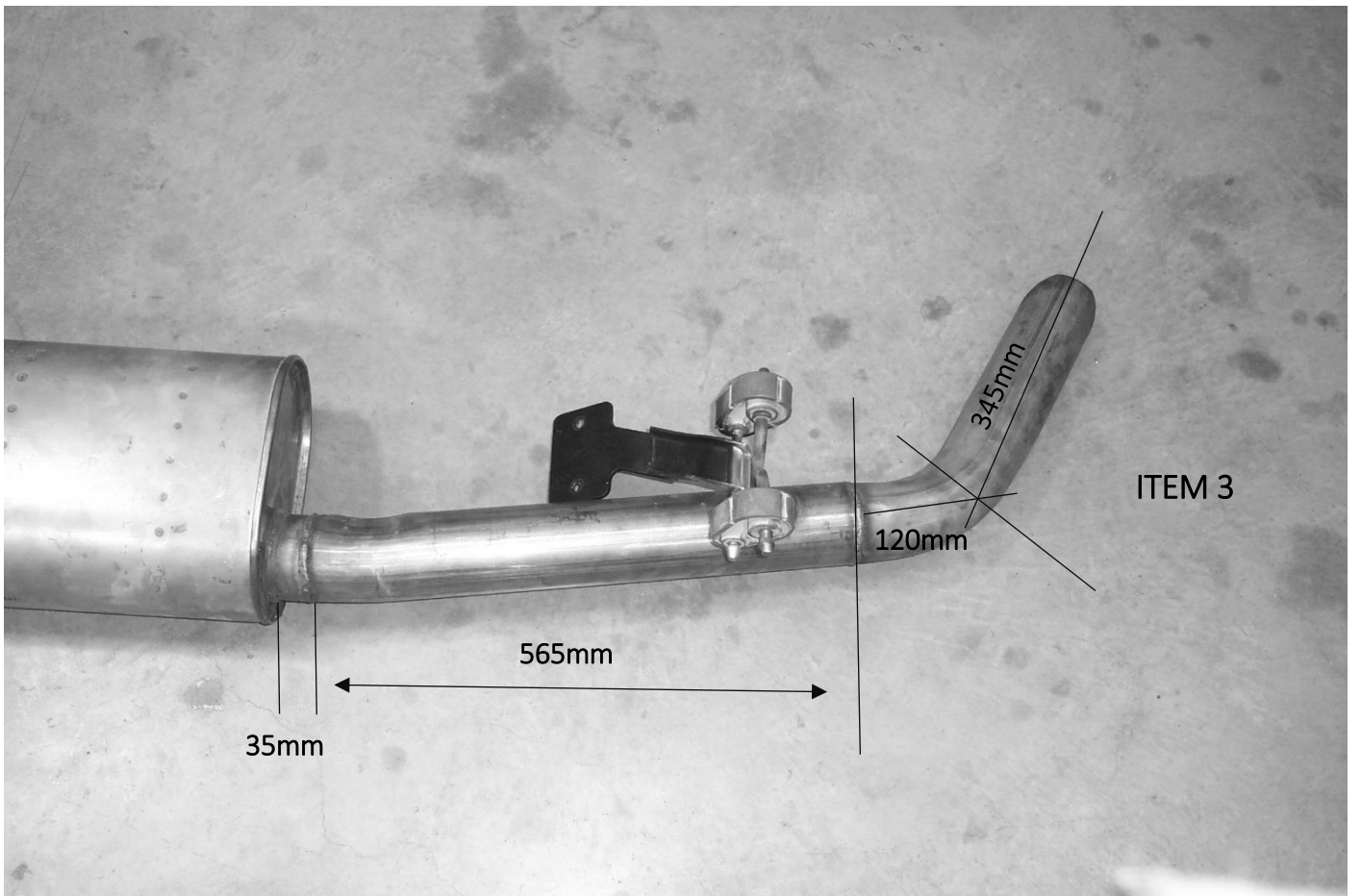
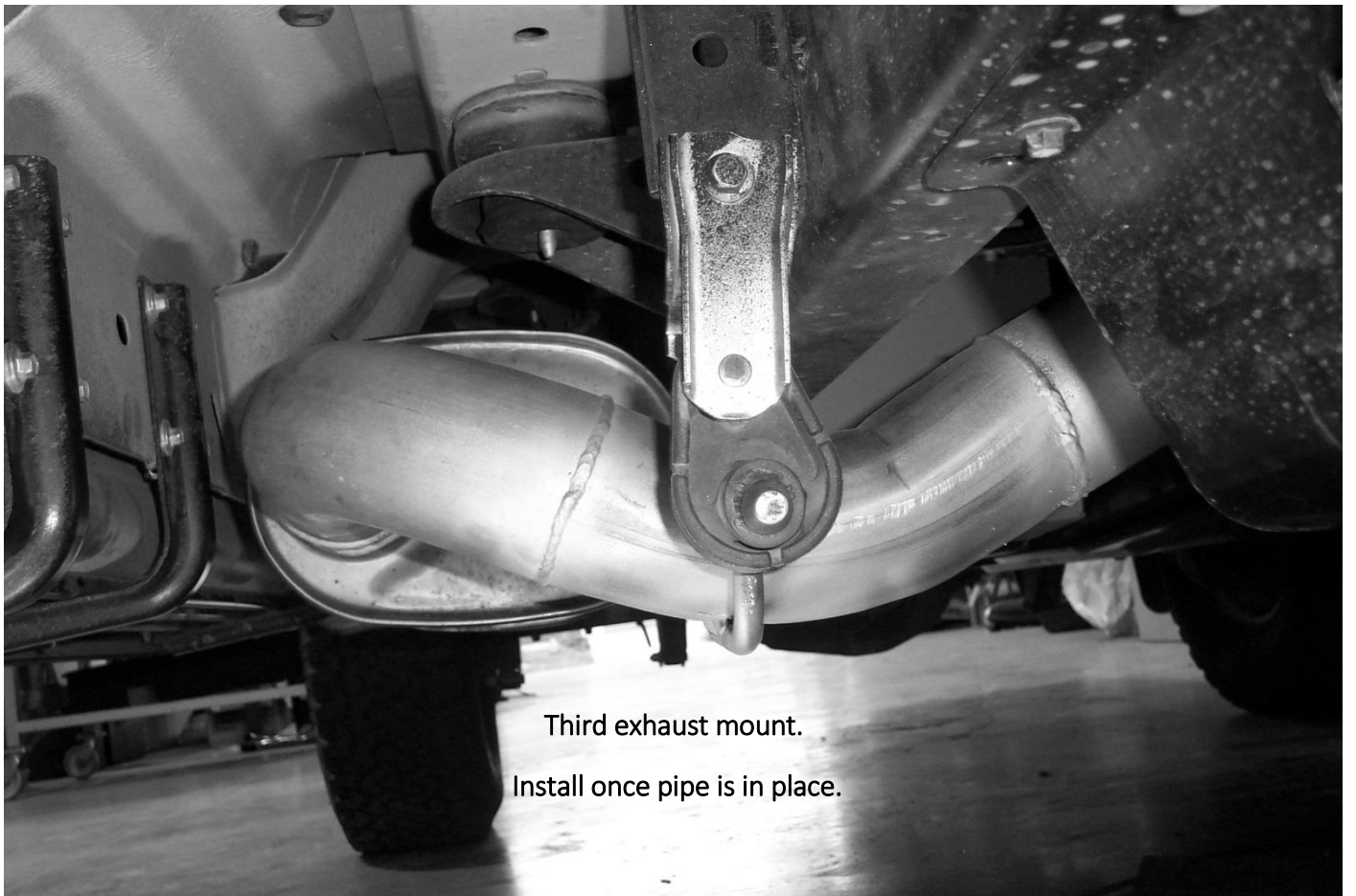
Hose:	14 Pages of Fitting Instructions Consisting of:
<ul style="list-style-type: none">○ 1 x 6mm Hose @ 1500mm○ 1 x 8mm Hose @ 700mm○ 1 x 8mm Hose @ 1200mm○ 1 x 44mm Hose @ 120mm○ 1 x 44mm Hose @ 240mm○ 1 x 16mm NTP Hose @ 400mm○ 1 x 16mm NTP Hose @ 1200mm	<ul style="list-style-type: none">○ 2 x Pages Fitting Instructions○ 2 x Pages Fitting Kit Contents○ 5 x Pages Exhaust Modification Pictures○ 1 x WDSGPG210 Diagram

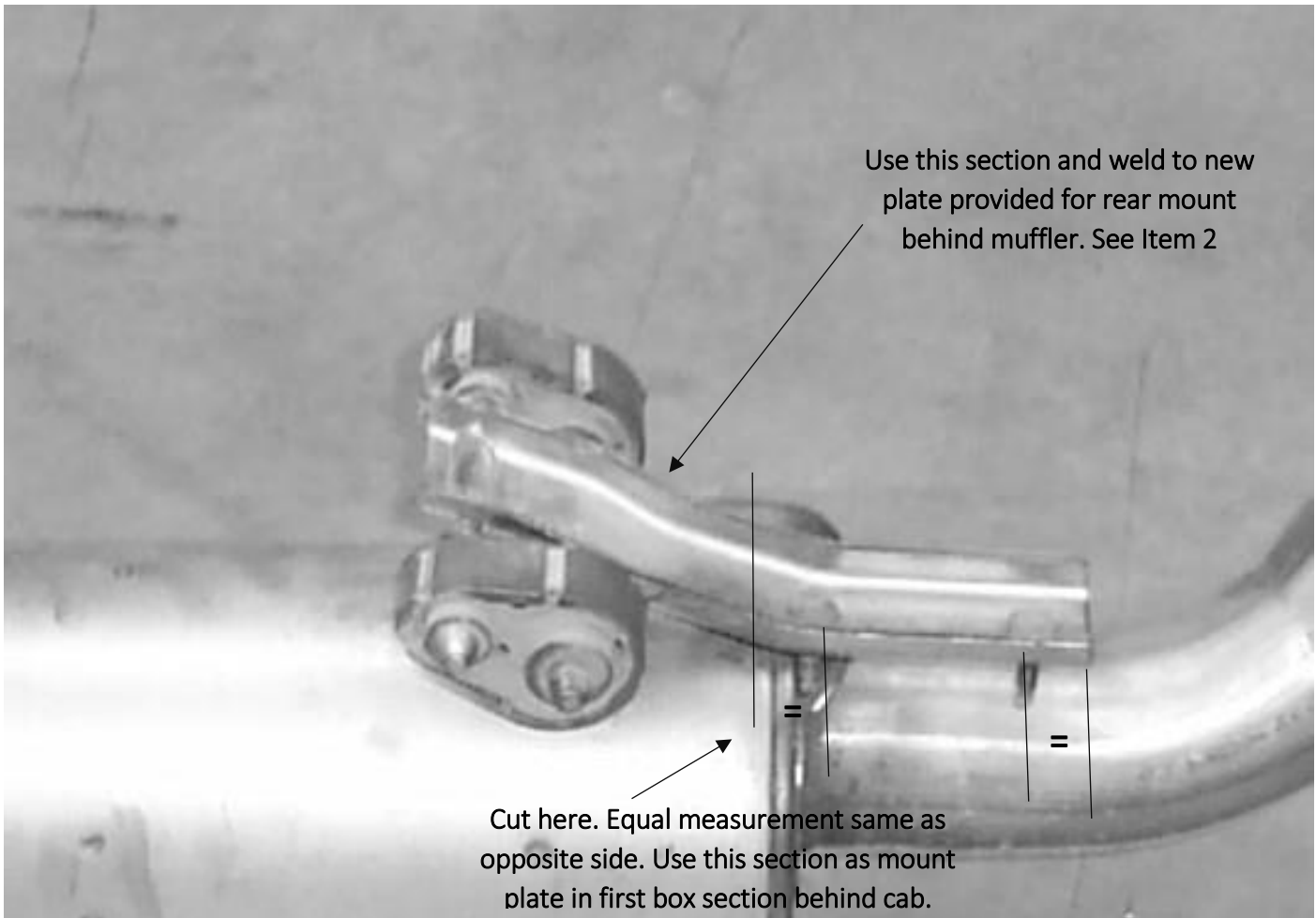
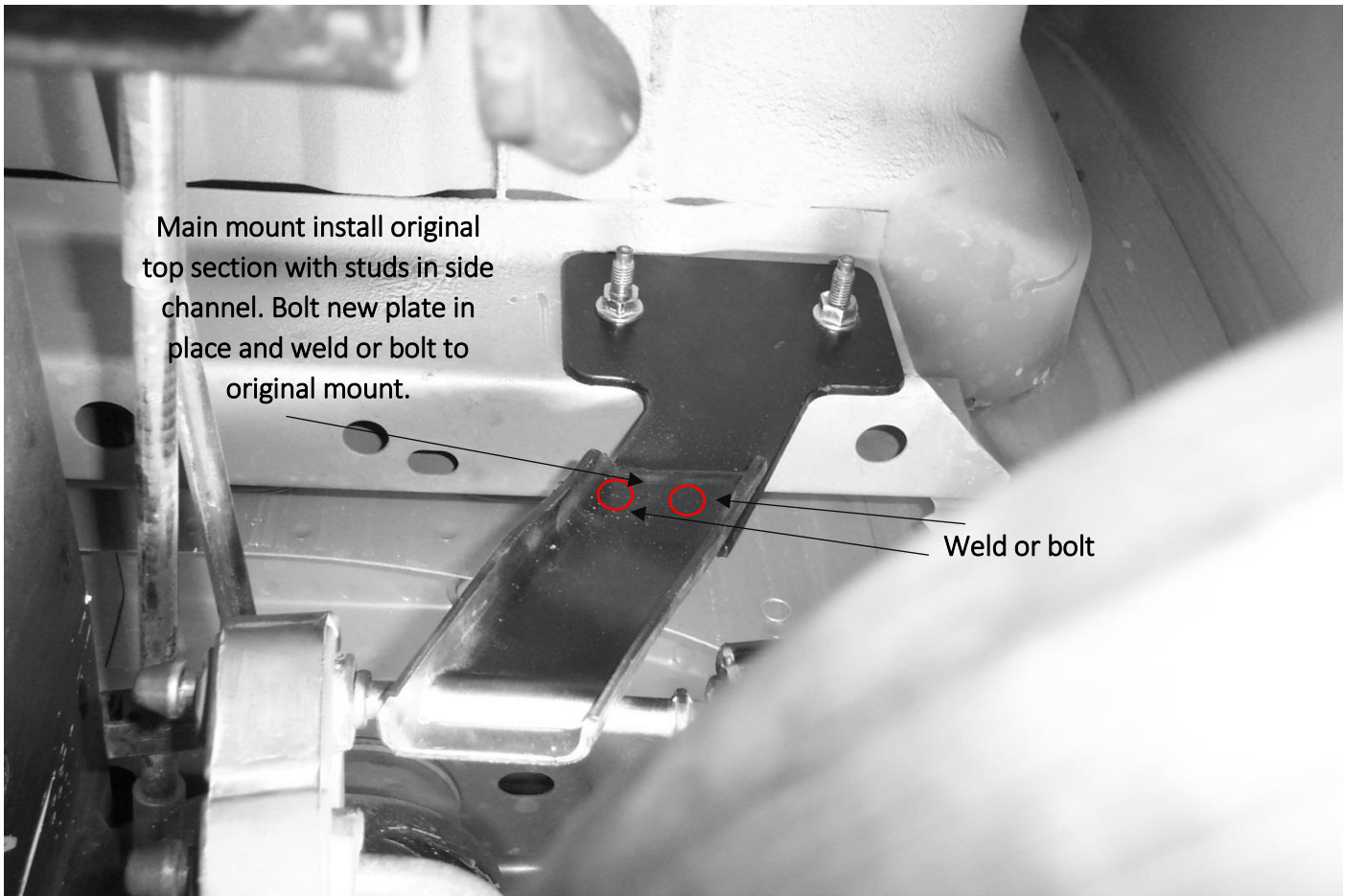
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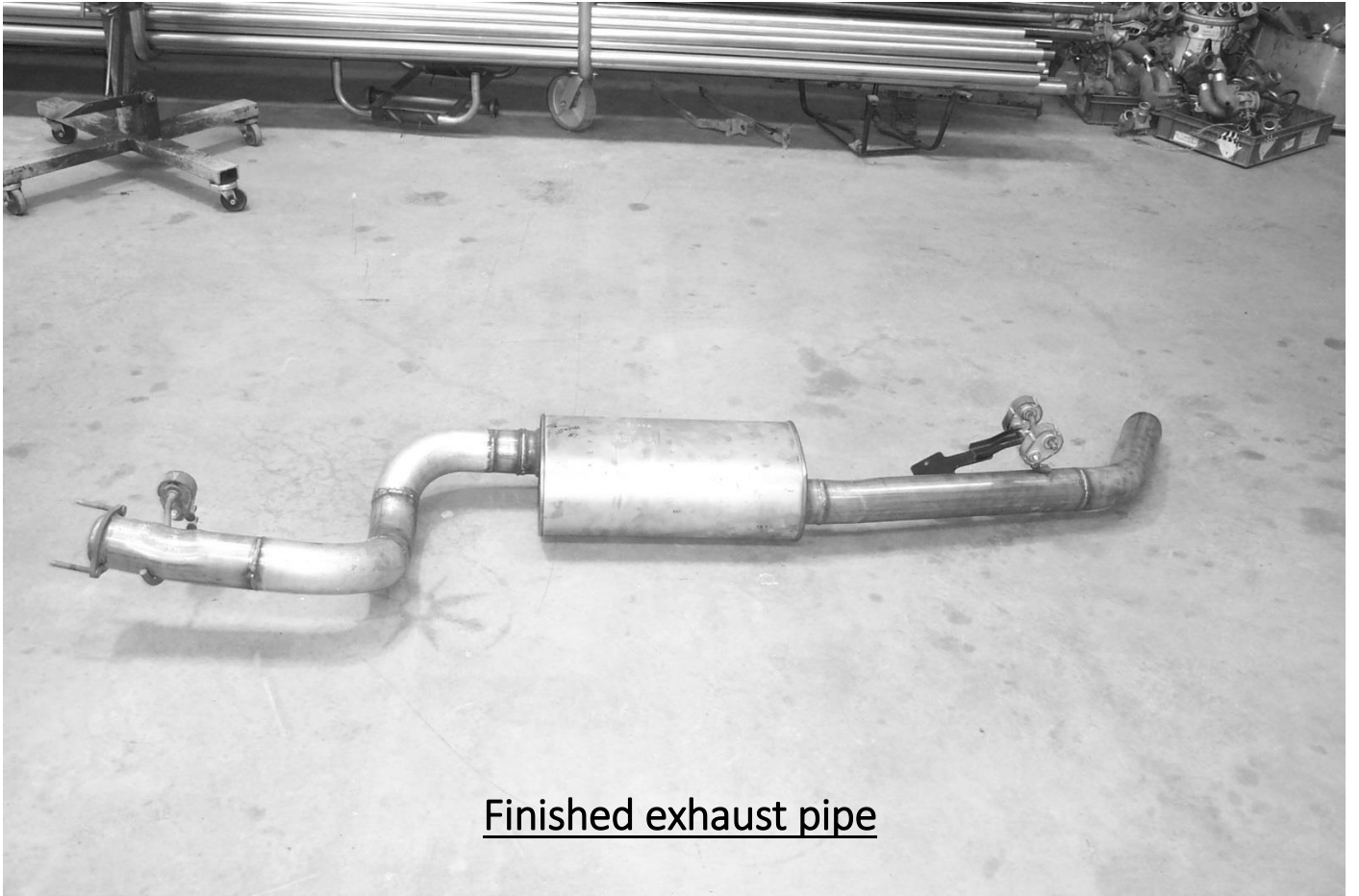
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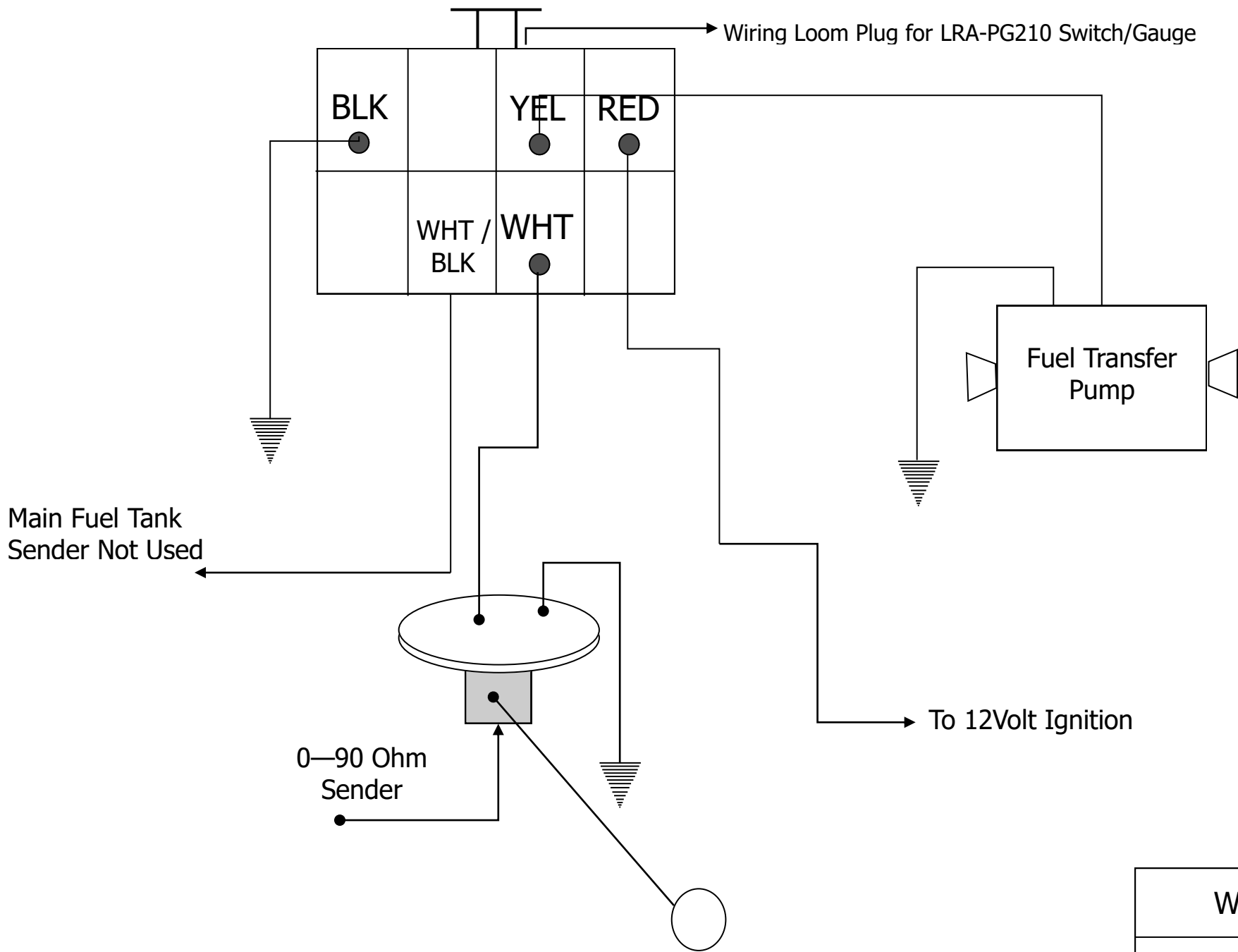








Finished exhaust pipe



WDSGPG210