

## A T JUNIPER (LIVERPOOL) Ltd

### Juniper 2 x 25 Gallon Compressor Washing Rig (JMP/CFM56/D/4777/C600)

This rig is all as per our rig JMP/CFM56/D/4777/C200  
apart from for the following modifications.



#### The modifications are as follows:

- Actuated ball valves replace the existing manual outlet ball valves for remote operation.
- 380/440V. 3 phase, 50hz electrical heating system incorporating control circuit for remote operation.
- Accessory Air Inlet Kit incorporated - JMP/CFM56/D/6612.
- Chassis mounted brackets either side of the rig for external housing of the wash probes.

## Operation

The fluid outlet ball valves fitted to each of the tanks have been replaced with electrically actuated ball valves (220V AC).

These valves can also be operated manually by operation of the Manual /Auto lever on the side of the valve.

In the auto position the valves are electrically driven.

In the manual position the valve can be operated like any other ball valve

IE: When the T bar handle is in line with the flow, the valve is open and when the T bar handle is across the direction of flow, the valve is closed.

The control system for heating the tanks to 70°C has been modified to supply power to these valves. No other external power is required to power the valves.

The valves are electrically isolated when the immersion heater ON buttons are pressed IE: During the heating of the tanks.

A Harting Socket fitted on the underside of the control box enables connection of the remote control box. A 7 core, 1.5 mm yy cable (5 cores used) has been provided, one end has a Harting plug for connection to the Harting socket and the other end is for connection to the remote control box.

The remote control box is fitted with two switches, one switch for each valve. Each switch has an open and closed position for the respective valve. From the moment a switch on the remote control is operated, it takes 12 seconds before the respective valve is fully open and 12 seconds before it is fully closed.

### Notes:

The cable supplied with the Remote Control is for test purposes only.

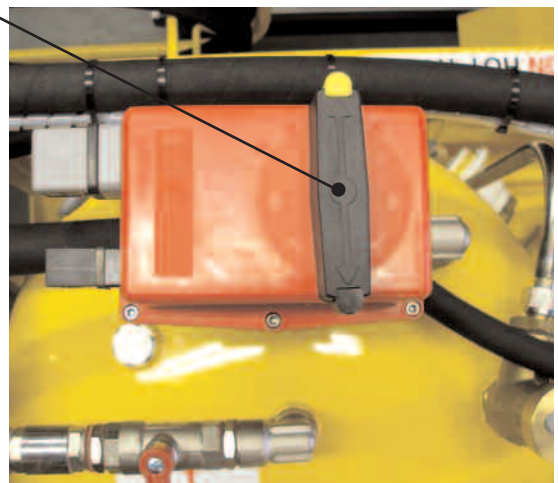
Actuated ball valves (SM886)



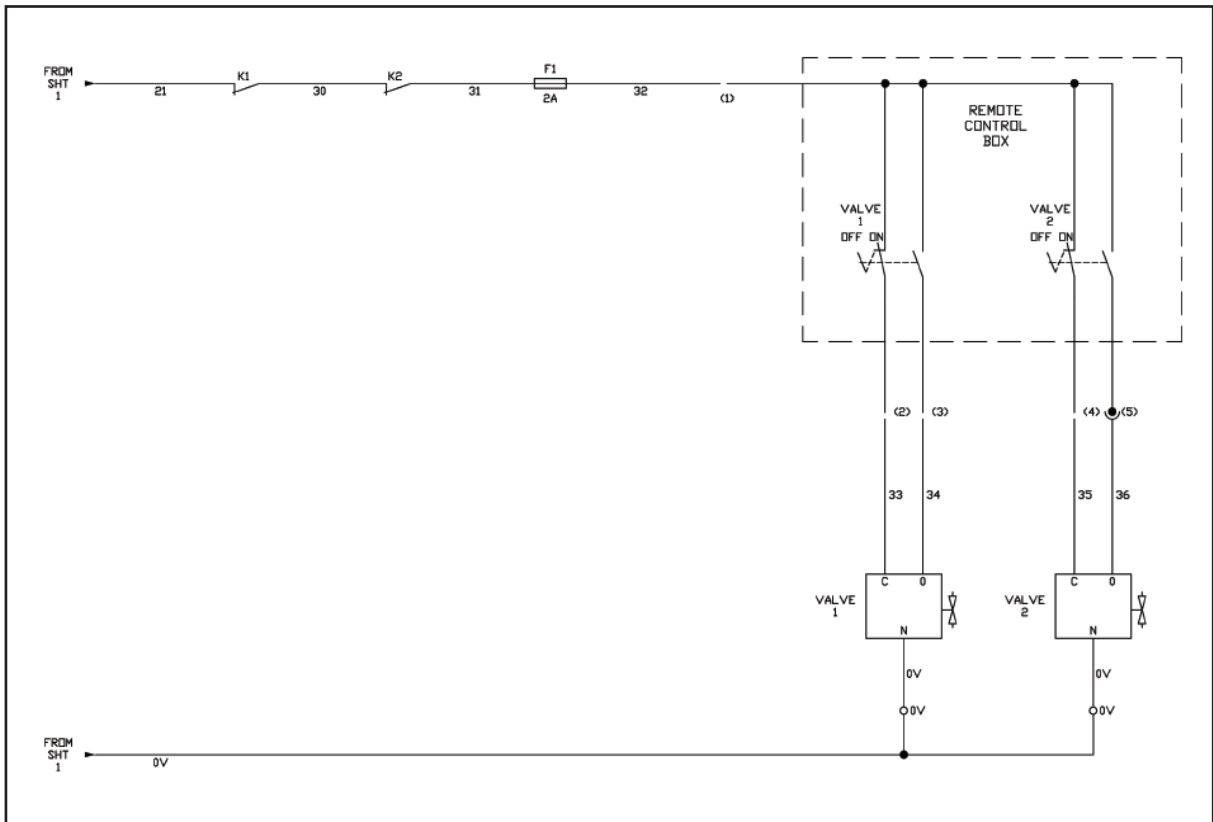
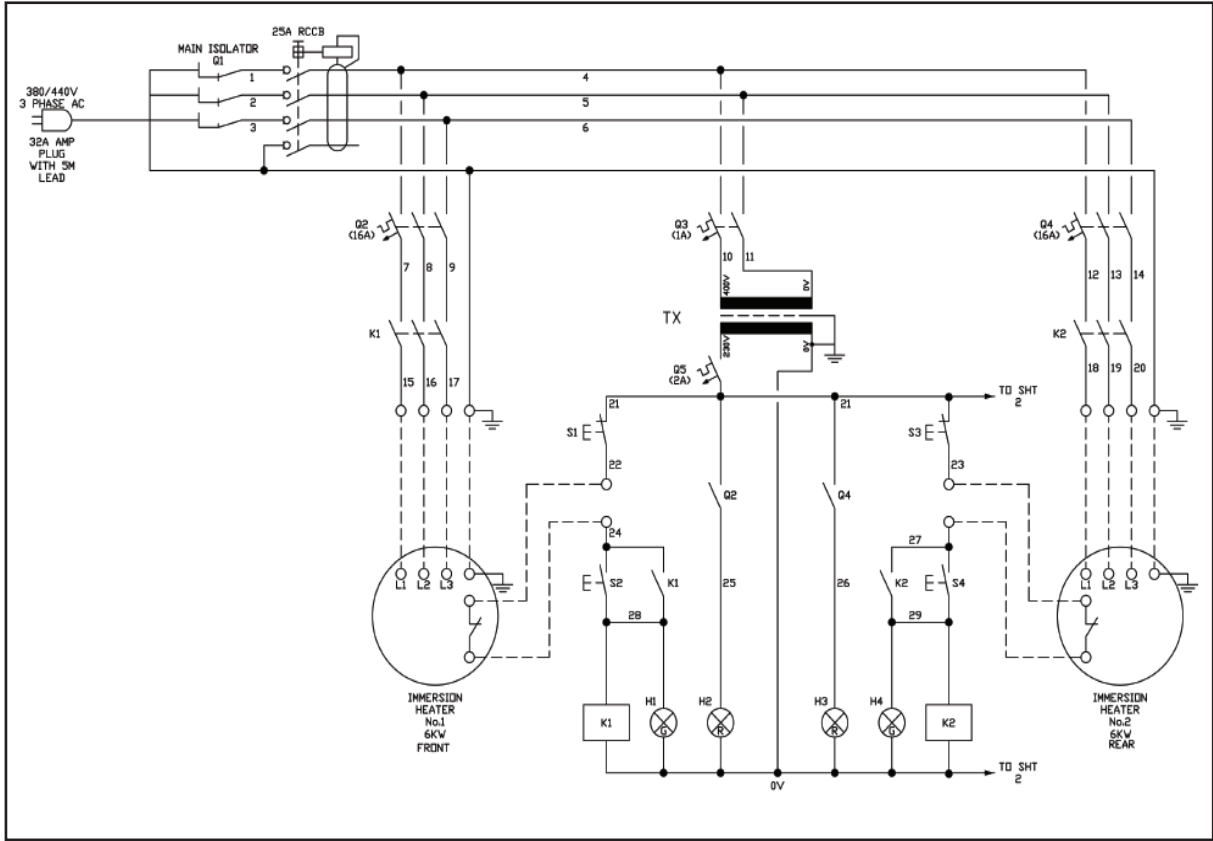
Actuated ball valves - SM886

Manual/Auto lever

Valve 'T' bar handle



Electrical Schematic diagrams



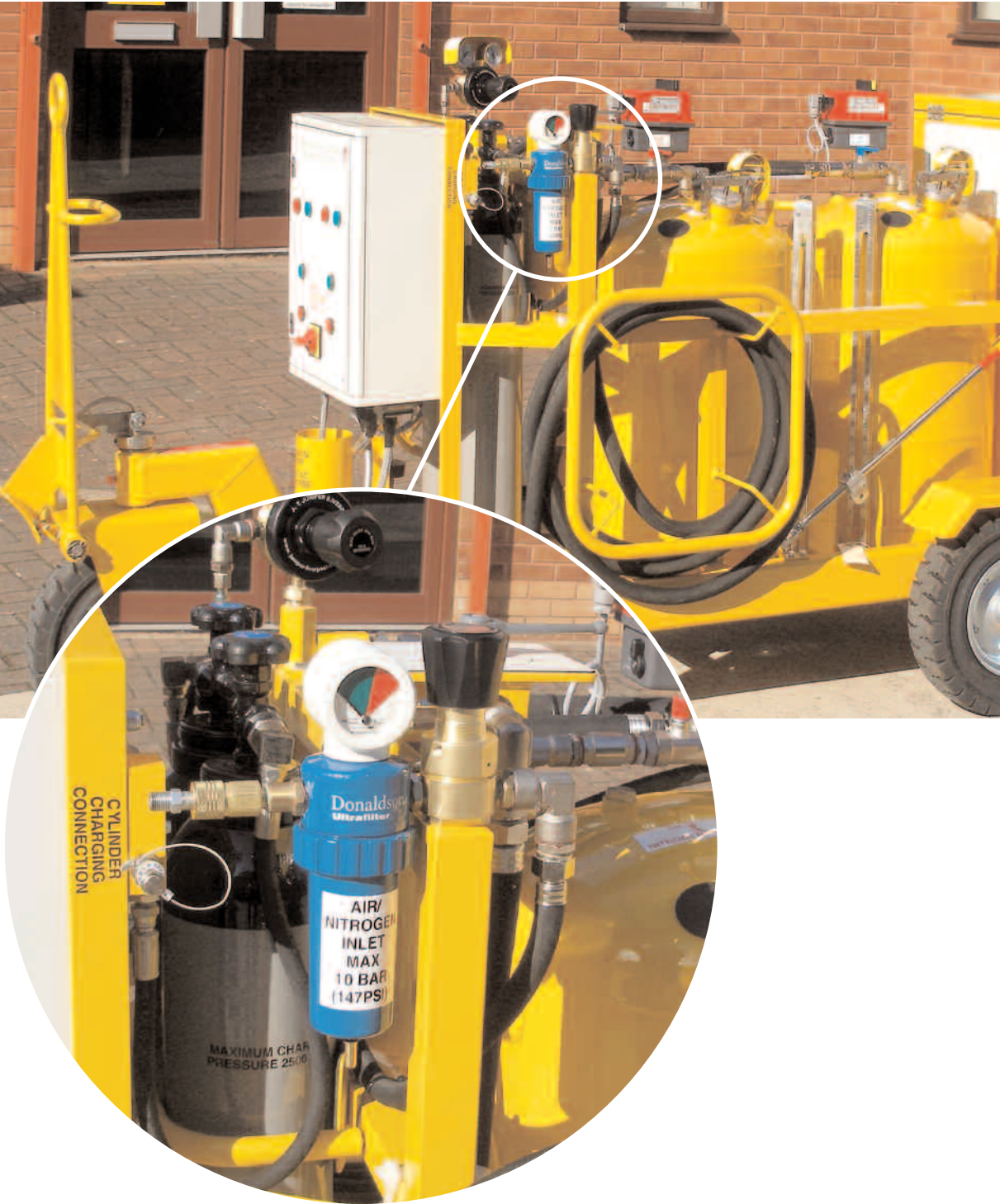
Spare parts list.

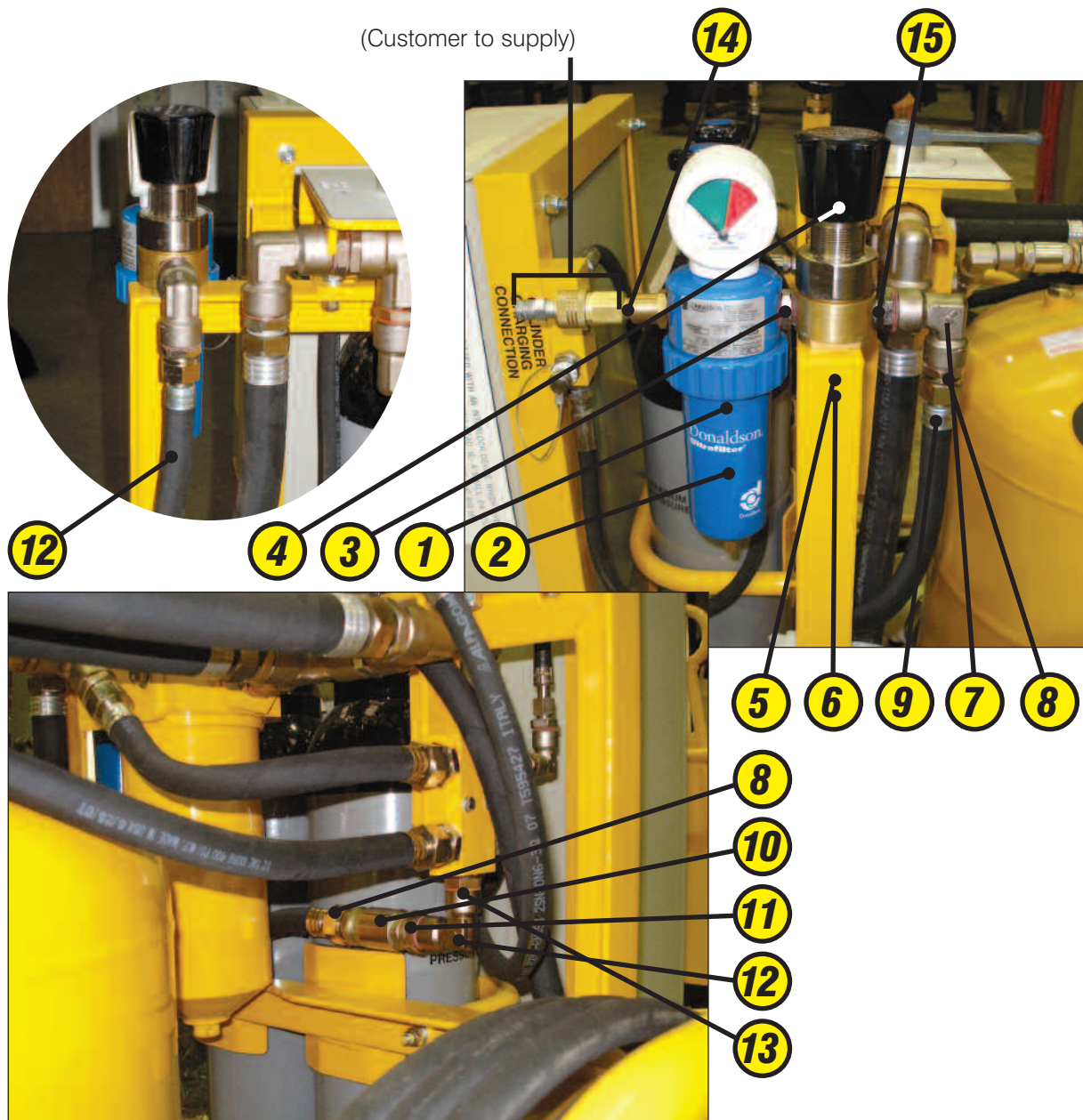
<b>Item</b>	<b>Manufacturer</b>	<b>Description</b>	<b>Part number</b>	<b>Qty</b>
E1	Legrand	Enclosure	JMP/GE/D/6752/1	1
E1	Legrand	Enclosure Backplate	JMP/GE/D/6752/2	1
RCCB	Merlin	25Amp RCCB 30mA Trip	JMP/GE/D/6752/3	1
RCCB	Sarel	RCCB Enclosure	JMP/GE/D/6752/4	1
Q1	Telemcanique	Door Isolator 32Amp	JMP/GE/D/6752/5	1
Q2	Merlin	MCB 16Amp 3 pole	JMP/GE/D/6752/6	2
Q2	Merlin	MCB Auxiliary	JMP/GE/D/6752/7	1
Q4	Merlin	MCB 16Amp 2 pole	JMP/GE/D/6752/8	1
Q4	Merlin	MCB Auxiliary	JMP/GE/D/6752/9	1
Q3	Merlin	MCB 1Amp 2 pole	JMP/GE/D/6752/10	1
Q5	Merlin	MCB 2Amp 1pole	JMP/GE/D/6752/11	1
K1	Telemcanique	Heater Contactor 25Amp	JMP/GE/D/6752/12	1
K2	Telemcanique	Heater Contactor 25Amp	JMP/GE/D/6752/13	1
S1	Telemcanique	Red PB/Contact block	JMP/GE/D/6752/14	1
S2	Telemcanique	Green PB/Contact block	JMP/GE/D/6752/15	1
S3	Telemcanique	Red PB/Contact block	JMP/GE/D/6752/16	1
S4	Telemcanique	Green PB/Contact block	JMP/GE/D/6752/17	1
H1	Telemcanique	Green Pilot Light	JMP/GE/D/6752/18	1
H2	Telemcanique	Red Pilot Light	JMP/GE/D/6752/19	1
H3	Telemcanique	Red Pilot Light	JMP/GE/D/6752/20	1
H4	Telemcanique	Green Pilot Light	JMP/GE/D/6752/21	1
TX	Legrand	100VA Transformer	JMP/GE/D/6752/22	1
	Contaclip	Outgoing Terminals	JMP/GE/D/6752/23	10
	Contaclip	Earth Terminals	JMP/GE/D/6752/24	2
	Contaclip	End Brackets	JMP/GE/D/6752/25	2
	Contaclip	Din 35 Rail	JMP/GE/D/6752/26	1
	Briticent	8Way Earth Block	JMP/GE/D/6752/27	1
	Iboco	40x40 Slotted Trunking	JMP/GE/D/6752/28	1
		5 Core 4mm SY Cable	JMP/GE/D/6752/29	5m
		7 Core 4mm SY Cable	JMP/GE/D/6752/30	5m
	CMP	SY Cable Glands	JMP/GE/D/6752/31	5
	Telemcanique	Pushbutton Station	JMP/GE/D/6752/32	1
	Telemcanique	2 Way Selector Switch	JMP/GE/D/6752/33	2
	Harting	Plug & Male Insert	JMP/GE/D/6752/34	1
	Harting	Bulkhead & Female Insert	JMP/GE/D/6752/35	1
	Contaclip	Fuse Holder	JMP/GE/D/6752/36	1
F1	Bussman	20mm 2Amp Fuse	JMP/GE/D/6752/37	1
		4core 1.0mm YY Cable	JMP/GE/D/6752/38	5m
		6core 1.5mm SY Cable	JMP/GE/D/6752/39	5m
		M20x1.5 Dome Head Gland	JMP/GE/D/6752/40	2
		M16x1.5 Dome Head Gland	JMP/GE/D/6752/41	2
valve 1/2		Actuated ball valve	SM886	2
	Telemcanique	Remote Control Box XAP M2202	JMP/GE/D/6752/42	1

380/440V. 3 phase, 50hz electrical heating system incorporating control circuit for remote operation. Shown here is the Harting plug connecting the remote control box to the rig's control box.



The Accessory Air Inlet Kit (JMP/CFM56/D/6612) enabling the connection of an offboard compressed air or nitrogen supply.





### ACCESSORY INLET KIT

Item	Description	Part number	Qty
1	3/8" BSPT Filter housing	SM749	1
2	Pro filter element	SM749/1	1
3	3/8" x 1/4" BSP Adaptor	JMP/STD/A/5352	1
4	Nitrogen regulator	SM647	1
5	5mm x 15mm Hex HD BZP		2
6	5mm BZP washers		2
7	1/2" BSP equal elbow	SM052	1
8	1/2" x 1/2" BSP Adaptor	JMP/STD/A/5289	2
9	1/2" x 584mm (23") Hose assembly	JMP/RGT/HL/1322	1
10	1/2" Non-return valve	SM050	1
11	1/2" x 3/8" BSP Adaptor	JMP/STD/A/5353	2
12	3/8" x 3/8" BSP equal elbow	SM058	1
13	3/8" x 3/8" BSP Adaptor	JMP/STD/A/5141	1
14	1/4" BSPT Female inlet	JMP/STD/A/5144	1
15	1/2" x 1/4" BSP Adaptor	JMP/STD/A/1686	1



Chassis mounted brackets either side of the rig for external housing of the wash probes.

