

# TECHNICAL INFORMATION SHEET

No. 0509-01  
12-Sept-05

## CINO XS PB Boiler and Valve Block De-scaling procedure



To prevent the risk of burn injury the boiler should first be flushed with cold water, if the machine has been in use. This is done by setting the temperature in the programming to 0 and vending using the hot water selection until the water runs cold.



To prevent the risk of electric shock - Always switch off and disconnect the machine from the mains electricity supply before removing the rear cover.



To prevent damage to the boiler: Set the first install option in the machine programming to '1' this will ensure that when the machine is next turned on that the boiler will automatically fill with water prior to heating.

1. Remove the machines rear panel, (fig. 1)
2. Remove the screw securing the rear hinged panel to the machine base, (fig. 2)



Fig. 1

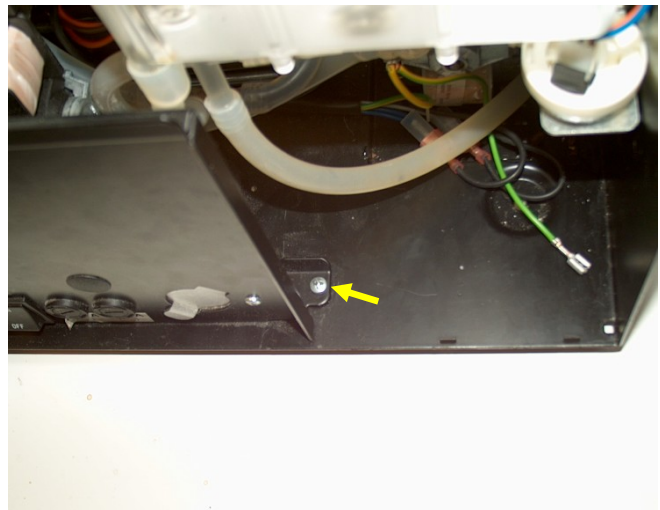


Fig. 2

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3. Disconnect the following cables: From the 3 valves, (Fig. 3), the safety temperature limiter, (Fig. 4). The heating element, (Fig. 5). Remove the temperature probe connection from the main board (Fig. 6)

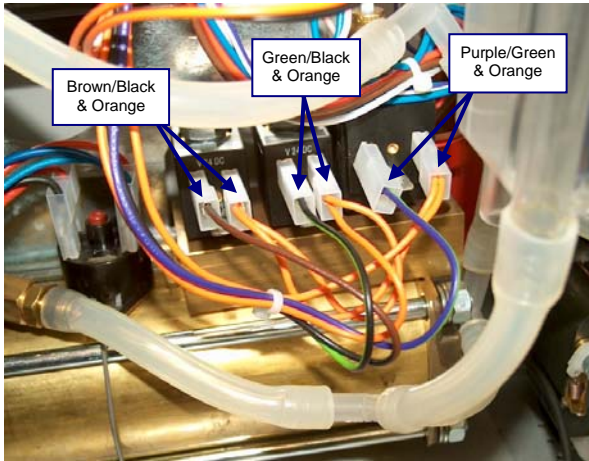


Fig. 3

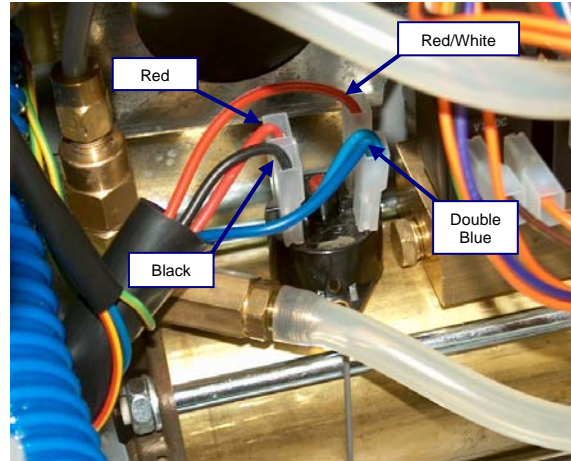


Fig. 4

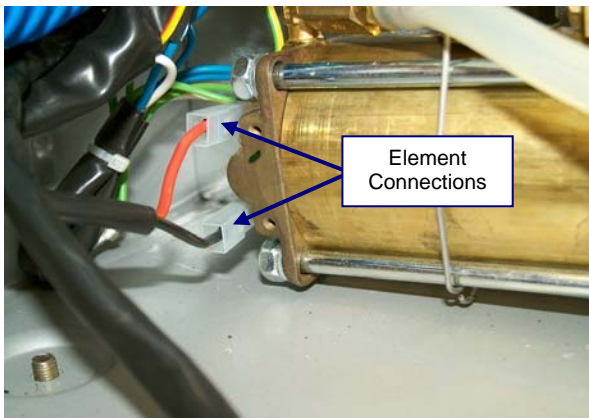


Fig. 5

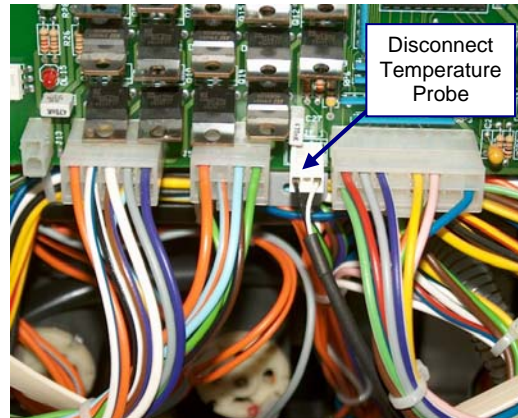


Fig. 6

4. Disconnect the high pressure hose (Fig. 7 a), remove the pump (Fig. 7 b) from the mounting clips, and disconnect the pressure feed back pipe (Fig. 7 c)

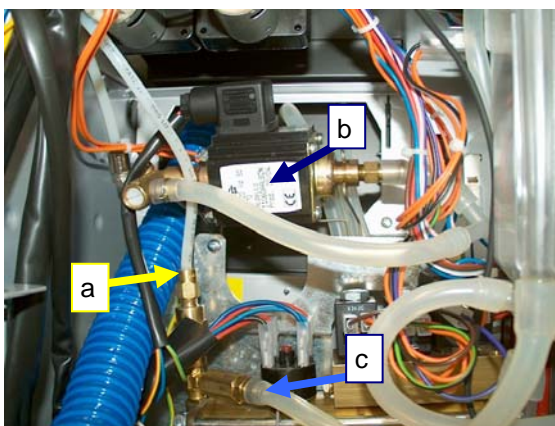


Fig. 7

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5. Disconnect the two pipes from the rear of the outlets at the front of the machine (Fig. 8). The outlet sockets can be removed by turning a quarter of a turn.
6. Remove the support screws at the front of the machine (Fig. 9)

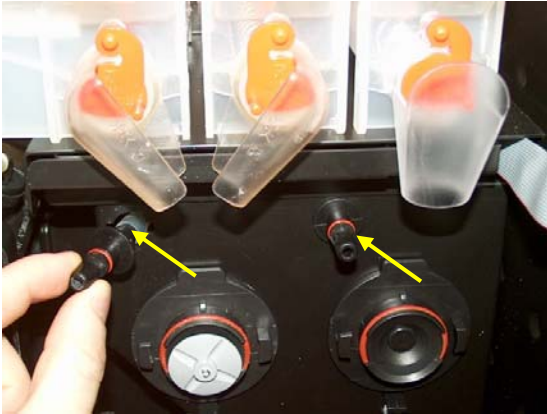


Fig. 8

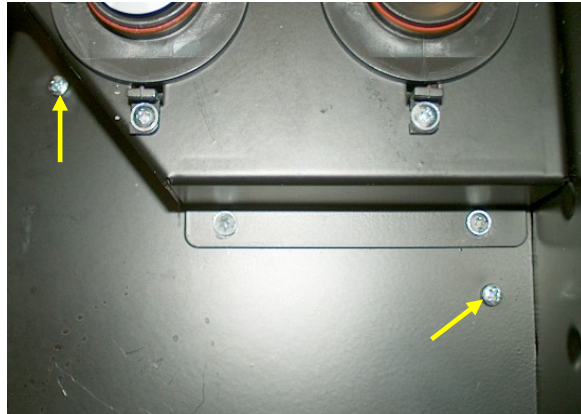


Fig. 9

7. Carefully remove the boiler and valve block assembly from the machine ensuring that it does not snag on any pipes or wires.
8. Empty the pressure boiler, by carefully opening the drain plug (Fig. 10)

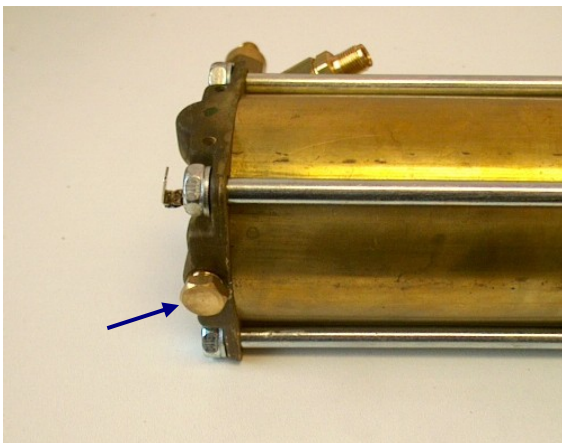


Fig. 10

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9. Remove the mounting plate by undoing the 4 screws shown (Fig. 11)
10. Separate the boiler and valve block by undoing the 2 Allen bolts (Fig. 12)

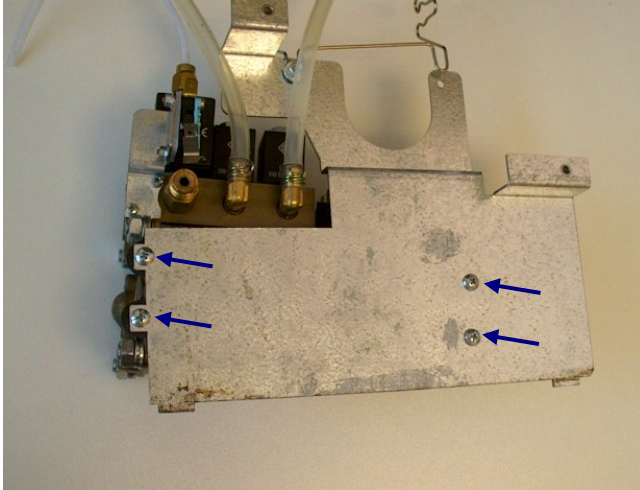


Fig. 11

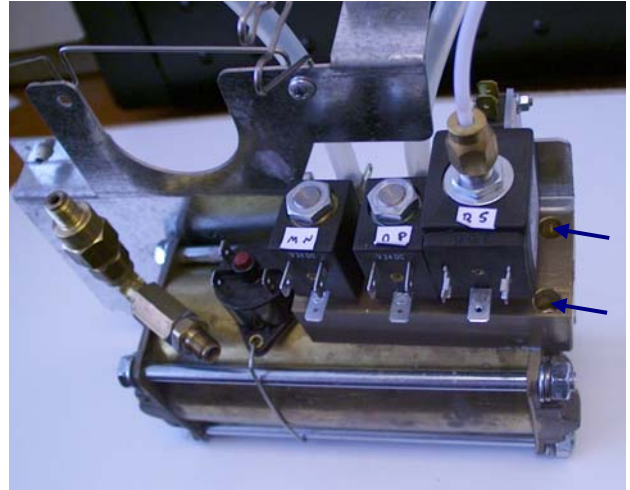


Fig. 12

11. Disassemble the valve block and boiler to the individual parts shown (Fig. 13 & 14). The parts shown are to be cleaned by immersing in a suitable de-scaling solution, the instructions for the chemical should be followed.

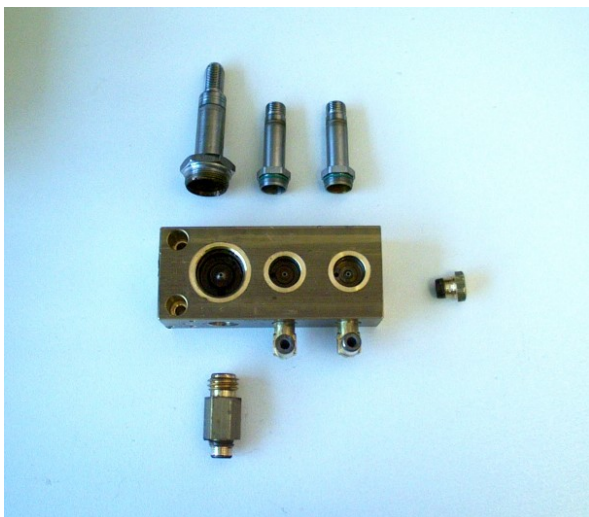


Fig. 13



Fig. 14

Note: When de-scaling ensure that the element and temperature probe connections are not immersed in the de-scaling solution, as it can damage the insulation.

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12. The following parts should be renewed during reassembly, refer to fig. 15 to identify the parts:

Qty.	P/N	Description	Drawing ref.
2	0110010060	Plunger & Spring	22/c
2	0110010061	O-ring green	49
2	GUA0000047	O-ring	4
1	0110010074	Plunger	22/f
1	0110010112	O-ring	50
1	GUA0005015	Teflon seal	54
1	0110003057	Spacer *	52
1	GUA0000069	O-ring *	53

\* Item 21 needs to be removed to access these.

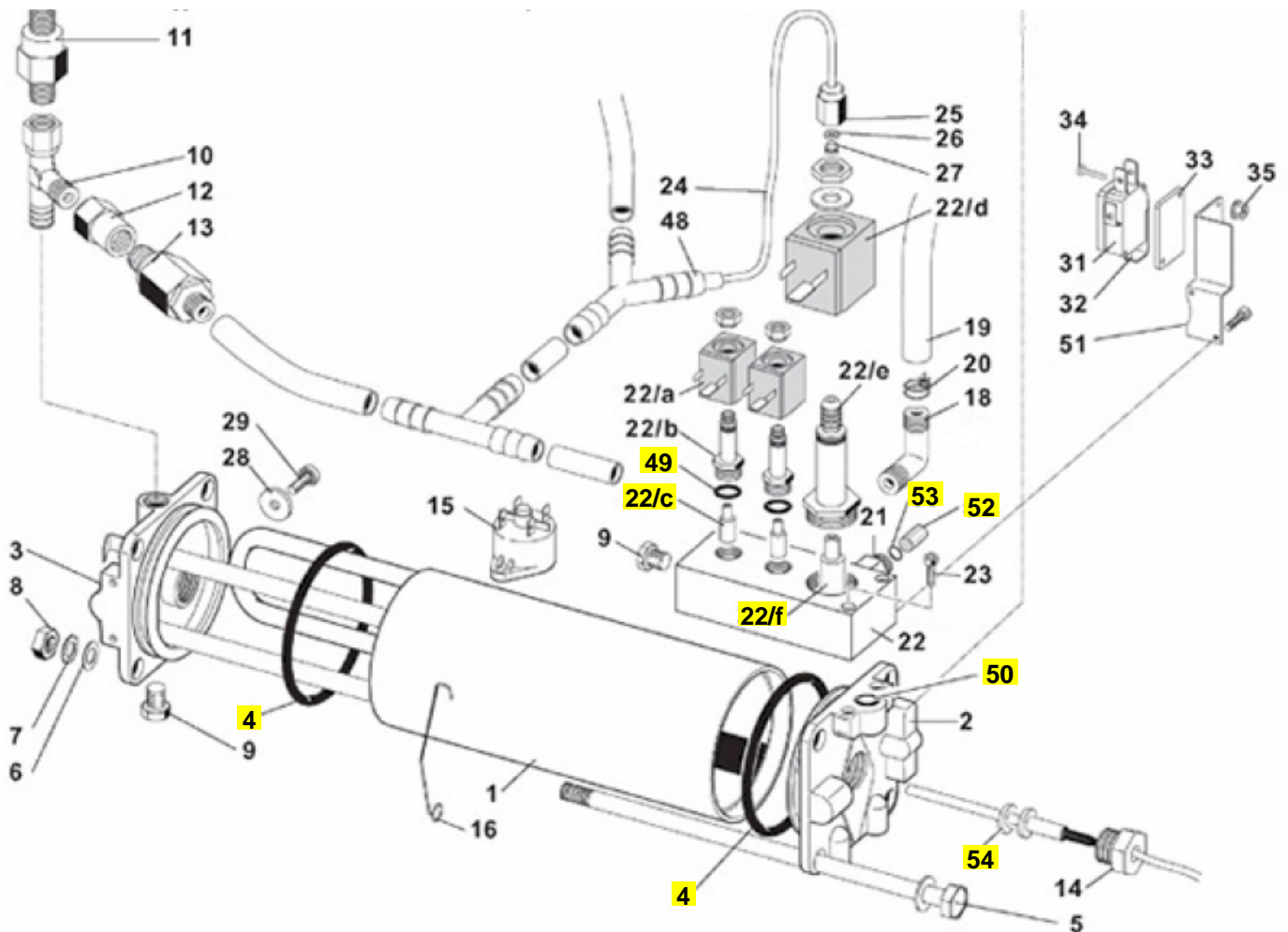


Fig. 15

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13. Ensure all parts that have been in contact with the de-scaling solution are rinsed thoroughly.

Assemble all the components in reverse order, refer to section 3 for cable connections.

Ensure that all of the components are assembled creating tight seals, use new seals and components as recommended. Use a suitable PTFE jointing compound on threaded joints.

Take time when refitting the complete assembly in the machine, ensuring that wires and pipes are not trapped and are routed correctly.

When the pressure boiler and the valve block are reassembled and installed back in the machine, double check connections and pipes prior to turning the power on.

When the machine is turned on it should run the install procedure (if the option was set in the programming prior to carrying out this procedure)

Go into the programming and set the temperature back to 90°C. When the machine reaches operating temperature carry out test vents and inspect the pressure boiler, valve block and all connections for any leaks.

Ensure that the machine functions correctly for all drink options.