

# Process Tanks: Thermostat, Heater and Bubble Pipe Removal and Re-fitting

1. **Disconnect mains supply before carrying out any form of Maintenance.**
2. Using the Syphon pump supplied, empty the tank(s) into a suitable container(s).
3. Using a blunt instrument – push the pin in the middle of the plastic rivets, retaining the front panel through the rivet, so that they fall inside the unit. The rivets can now be removed and the front panel can be carefully lifted from the casing. It is necessary to retrieve the pins from inside the casing for re-assembly.
4. Remove the M4 screw from the base of the unit, which retains the tank that is requiring maintenance.
5. Disconnect the faston connections for the heater, and if fitted the pump, from the front panel.
6. Carefully lift the tank to expose the thermostat bulb in it's holder. Lift the bulb up and remove from the holder, taking care not to damage the capillary in any way. Lift the tank clear of the casing for further maintenance.
7. The thermostat can be removed from the front panel by firstly pulling off the control knob to reveal two M4 retaining screws which must be removed, disconnect faston connections. Reverse procedure for re-assembly.
8. It is necessary to remove heater first, in order to remove the bubble pipe assembly. Using a suitable tool undo the large plastic back nut in the heater boss anti-clockwise. Draw the heater from the tank, the rubber seal and plastic washer will probably stick to the heater – this is normal.
9. The bubble pipe assembly can now be removed by firstly disconnecting the flexible pipe from the bubble pipe and then using a suitable tool. Undo the small plastic back nut anti-clockwise. The bubble pipe can now be removed from inside the tank; Reverse procedure for re-assembly, but refer to drawing 400-0058 for positioning of the spacers on the bubble pipe.  
The plastic back nut must be done up firstly, do not over-tighten.
10. Wet the heater with water to aid insertion into rubber gland seal. There is a mark on the heater body or the sleeving, make sure this mark is facing uppermost when the heater is in place. Tighten back nut firmly, but do not over-tighten, as this will crack the heater body. Reverse procedure for re-assembly.

## **Important Note.**

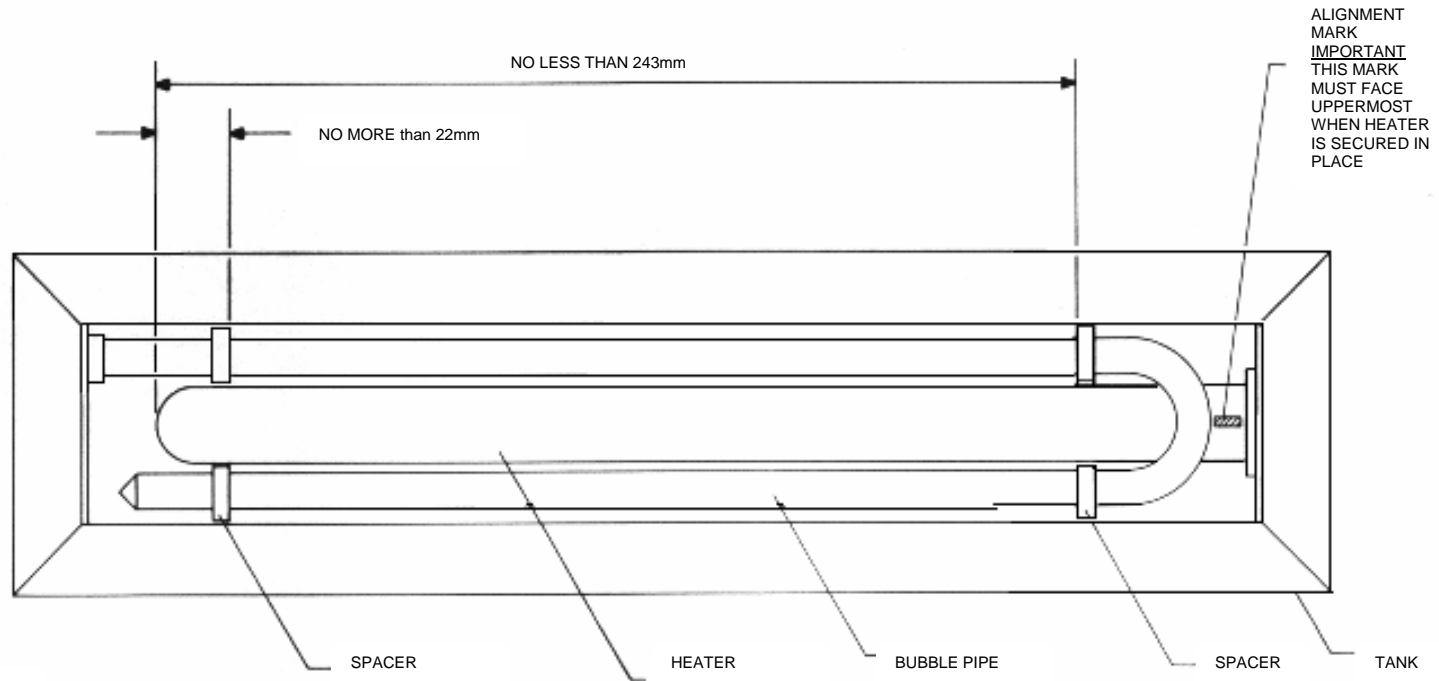
The heater elements are fitted internally with a thermal cut-out if the operating temperature is exceeded this cut-out will switch off the heater automatically. To reset the cut-out – the power to the heater must be switched off and left for about 5 minutes before switching back on.



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DO NOT SCALE THIS PRINT



**IMPORTANT NOTE**

THE ALIGNMENT MARK INDICATED ON THE HEATER MUST FACE UPPERMOST WHEN THE HEATER IS SECURED IN PLACE

**VIEW INTO ETCHING TANK FROM ABOVE**

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DRN M. HALL	DECIMAL ± 0.1 FRACTION ± 1/4 ANGULAR ± 30°					TITLE: HEATER & BUBBLE PIPE ASSY IN TANK	DRG. No: 4000 D 0058
DATE 4-7-97							