

# BRISTAN

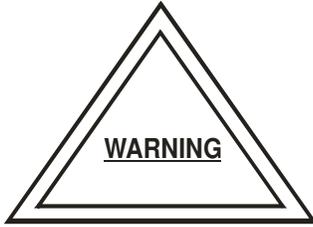
Thermostatic Cartridge

SK1850-2

Service Instruction



Please keep these instructions for future reference



*Before starting any servicing please isolate your water supply by either;*

- 1. Turn the water off at the mains supply stopcock*
- 2. Turn the water off at the isolations valves to the shower*

The following literature will guide you through servicing and regulating the temperature of your shower valve.

## Removal of the cartridge

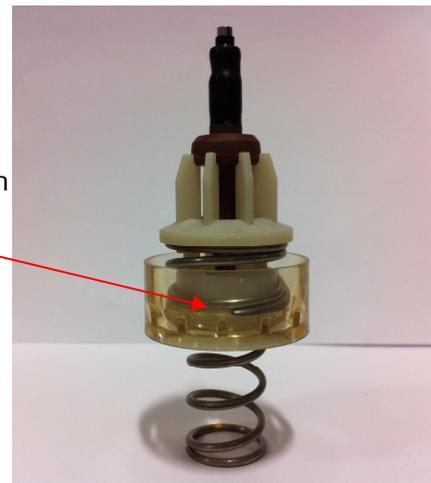
1. Turn off both water supplies to the shower valve.
2. Remove the centre cap / indice from the centre of the temperature control handle.
3. Remove the centre retaining screw.
4. Remove the temperature control handle assembly.
5. Remove the circlip and then pull off the flow control handle.
6. Once removed pull off the body sleeve which will expose the cartridge.



7. Having removed all controls from the valve, removal of the cartridge will require a large 46mm adjustable spanner.

**Unscrew the cartridge anti-clockwise.**

8. Having unscrewed the cartridge, it will expose both the thermostat and piston assembly. The piston sits/rests on a loose spring, when servicing the valve clean off any debris/dirt on the piston and apply a thin layer of silicon grease around the clear cylindrical part of the piston to ease the movement, in doing so this will allow the thermostat to regulate the temperature.



9. Now that the cartridge is removed from the valve in order to service the cartridge you will need to remove the large circlip which is situated between the top of the Brass nut and the bottom of the exposed spindles.

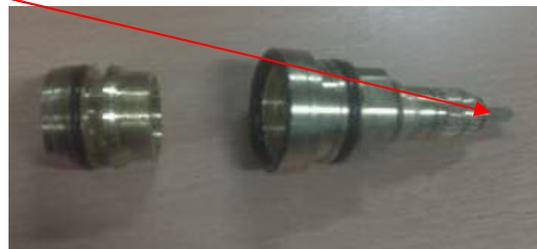


10. Having removed the circlip push the top of the spindle through the brass nut which will expose the remainder of the cartridge. There is an O ring in the flow nut, It is important that this is replaced and greased.



11. To disassemble the cartridge you will need to use an adjustable spanner. Place this onto the hexagon shaped nut and slide a metal rod or screwdriver through the rectangular slots. Unscrew the half cartridge anticlockwise.

12. When the half cartridge has been removed from the top half you will then need to remove the smaller circlip placed on the smaller spindle being the temperature control. Replace all visible O rings.



13. Once the circlip has been removed, push the small spindle through the remainder of the cartridge, then replace all visible O rings, then reverse action in re-assembling cartridge and control assembly.



14. Now that all of the seals have been replaced and re greased the cartridge will need to be re assembled.

Re assemble the spindle following the below drawings.



1. Push the spindle into the spindle housing.



2. Screw the half cartridge back onto the spindle housing.

15. Push the brass nut back onto the cartridge and replace the circlip.



16. Screw the cartridge back into the valve body using the 46mm adjustable spanner.

17. Replace the body sleeve and control handles, Replace the retaining screw and centre cap / indice.

## Temperature Setting / Adjustment

1. Turn on the water supplies and fully open the flow control, let the water run long enough to ensure that the hot water supply is at its maximum temperature.
2. Remove the indice and unscrew the retaining screw.
3. Turn the temperature knob to the maximum setting then turn the shower on fully with the flow control, wait until the max temperature is reached.
4. Lift the temperature knob 3-5mm off the spline of the cartridge.
5. Turn the temperature knob anti-clockwise to increase temperature and clockwise to decrease temperature.
6. Having reached your desired temperature, turn the shower off, reset the temperature knob, Matching the indicator dots on the temperature knob up to the temperature ring.
7. Replace the retaining screw in the allocated slot and push the covering cap back into place.

fault diagnosis	
symptoms	cause / rectification
only hot or cold water from the mixer outlet	Inlets reversed (hot supply to cold supply) check that the connections are the correct way round. Hot on the left and cold on the right when viewed from the front.
	Rework pipework if necessary.
outlet temperature too hot / cold	No hot or cold water reaching mixer.
	Check insert filters for any blockage.
	Installation conditions outside operating parameters. Refer to specification section. Winter conditions - If using combination boiler system and shower output temperature is low, please contact Bristan for guidance.
fluctuating or reduced flow	Check the shower handset, hose and filters for any blockage.
	Make sure that the maintained inlet pressures are nominally balanced and sufficient.
	Make sure the inlet temperature differentials are sufficient. The inlet hot water temperature must be at least 10°C above the required blend temperature. The maximum recommended hot supply is 60°C.
	Air lock or partial blockage in the pipework.
leaking from controls	Cartridge seals damaged, replace as necessary.
water leaking from shower head	This is normal for a short period after shut off.
	Check that the pressures do not exceed the specification for the product.
	Cartridge seals damaged, replace as necessary.

## Bristan Spare Part Numbers



Seal Kit - SK1850-1



Complete Cartridge - SK1850-2



Thermostat & Piston - SK1500-3

## Notes

Use this page for any notes that you have regarding the servicing of your shower valve.

# BRISTAN

This booklet covers servicing of  
SK1850-2

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