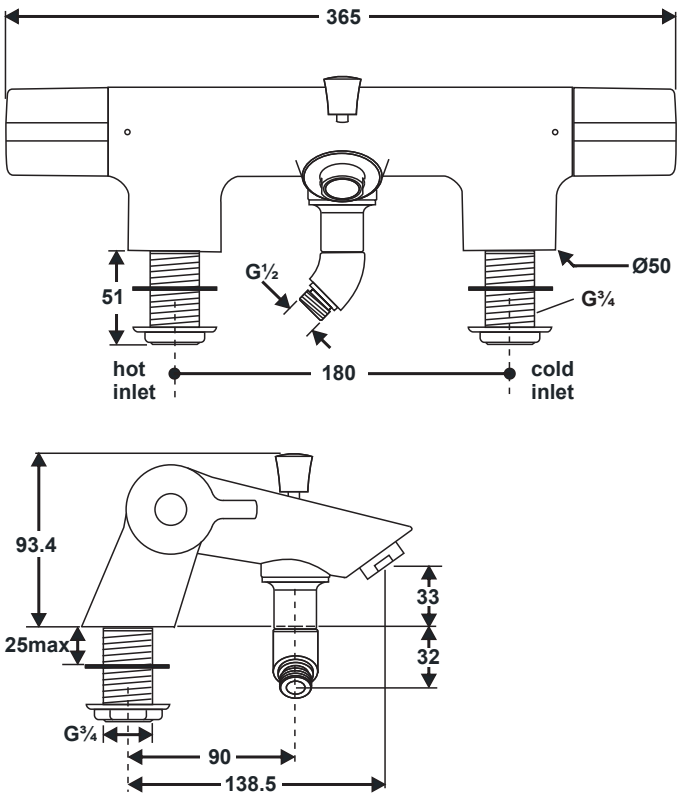


Figure 5 Exploded view of Bath Shower Mixer A4989AA

Ref.	Description	Part No.
1	Volume control handle	A961932AA
2	Cap for handle w/o logo	E960641AA
3	Screw M4 L=23,5	A962998NU
4	Handle insert complete	A963432NU
5	Headwork G3/4	A960462NU
7	Thermostat Cartridge G3/4	A960587NU
8	O-Ring set cartridge	A963587NU
9	Temp. adjustment complete.	A963427NU
10	Temperature handle cpl.	A961885AA
13	O - Ring Ø 31,47 x 1,78	A963154NU
14	Fixation-Set	A860458NU
15	Non-return valve OV15	A860415NU
17	O - Ring Ø 17 x 2	A961810NU
18	Pull knob	B960514AA
19	Aerator M24x1 -C-	A961132AA
21	O-Ring Set for Pos. 20	A962062NU
22	Diverter Inner parts cpl.	A962063AA
26	Flex. hose G1/2 x 1800mm	A963173NU
27	Shower hose bracket	EEM134901AA
28	Shower station + pos.26	S960164AA

Installation Instructions

PICCOLO 21 THERMOSTATIC BATH SHOWER MIXER



A4989AA Bath/Shower Thermostatic Mixer
Rim-Mounted with Accessoires

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0870 129 6085

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Armitage Shanks pursues a policy of continuing improvement in design and performance of its products. The right is therefore reserved to vary specification without notice.
Armitage Shanks is a division of Ideal Standard (UK) Ltd

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*Armitage
Shanks*

2 INTRODUCTION

The fittings covered by this installation and maintenance instruction should be installed in accordance with the water regulations published in 1999*, therefore Armitage Shanks would strongly recommend that these fittings are installed by a professional installer

*A guide to the Water Supply (Water Fittings) Regulations 1999 and the Water Byelaws 2000, Scotland is published by WRAS (Water Regulations Advisory Scheme) Fern Close, Pen-y-Fan Industrial Estate, Oakdale, Newport, NP11 3EH. ISBN 0-9539708-0-9

DESCRIPTION

This manual covers the A4989AA Portman thermostatically controlled, dual controlled deck mounted mixer. It is designed to provide water from ambient cold up to a safe maximum temperature for showering and bathing.

These products are intended to be deck mounted on a bath tub where the tap hole centres are located at 180mm centres

It comes complete with integral check valves located in the G³/₄ inlet tails

INTRODUCTION

This thermostatic deck mounted mixer is manufactured to the highest standards and is suitable for installation in domestic dwellings and hotels.

For correct performance the supply conditions detailed in Table 1 should be observed. This valve is not suitable for healthcare establishments

This fitting is designed to be installed on vented low pressure systems, unvented high pressure systems, modulating instantaneous water heaters or modulating combination (combi) boilers. It is suitable for all pumped applications.

Hot and cold water supply pressures must be reasonably balanced and from a common source i.e. both from storage or both from a supply pipe. This mixer will function within specification on unequal pressures up to 5 :1 but it is not recommended that cold be connected to the rising main and hot to the tank fed supply.

Avoid using heat for soldering near the mixer inlets to prevent damage to internal components.

3 SUPPLY CONDITIONS

	BSEN1111	BSEN1287
Operating pressure range	High pressure	Low pressure
Maximum static pressure - Bar	10	10
Flow pressure hot and cold - Bar	0.5 to 5	0.2 to 1
Hot supply temperature °C	55 to 65	55 to 65
Cold supply temperature °C	>/= 25	>/= 25
Temperature differential characteristic (TDC) °C	10	10

4 MAINTENANCE

On a regular basis the flow straightener nozzle and the shower spray head should be inspected and cleaned if necessary. In areas where lime scale build-up is prevalent this will have to be removed. An inhibited proprietary scale solvent can be used such a kettle descaling solvent but it is important to follow the manufacturer's guidelines. After descaling it is important to rinse the parts thoroughly in clean water. Clean carefully and do not use abrasive materials or scrapers.

REPLACING THE THERMOSTATIC CARTRIDGE

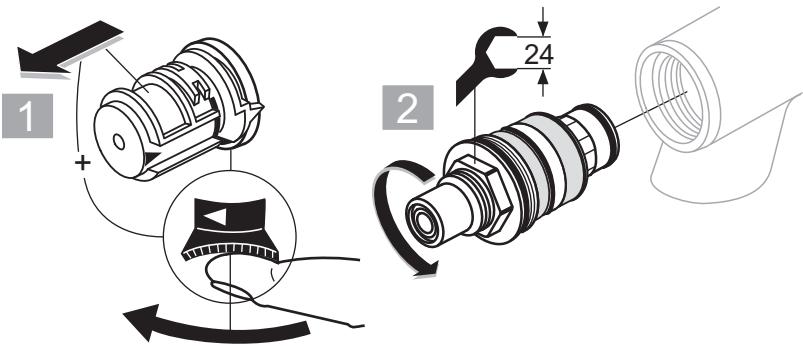


Figure 1 Showing the removal sequence for the thermostatic cartridge

CHANGING THE FLOW CONTROL CARTRIDGE

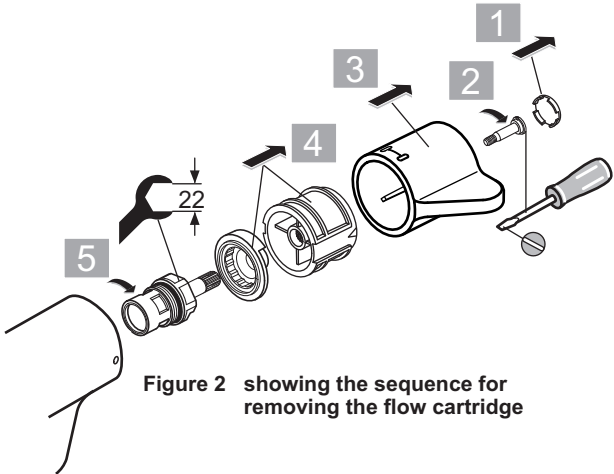


Figure 2 showing the sequence for removing the flow cartridge

5 RE-CALIBRATION OF THE THERMOSTAT

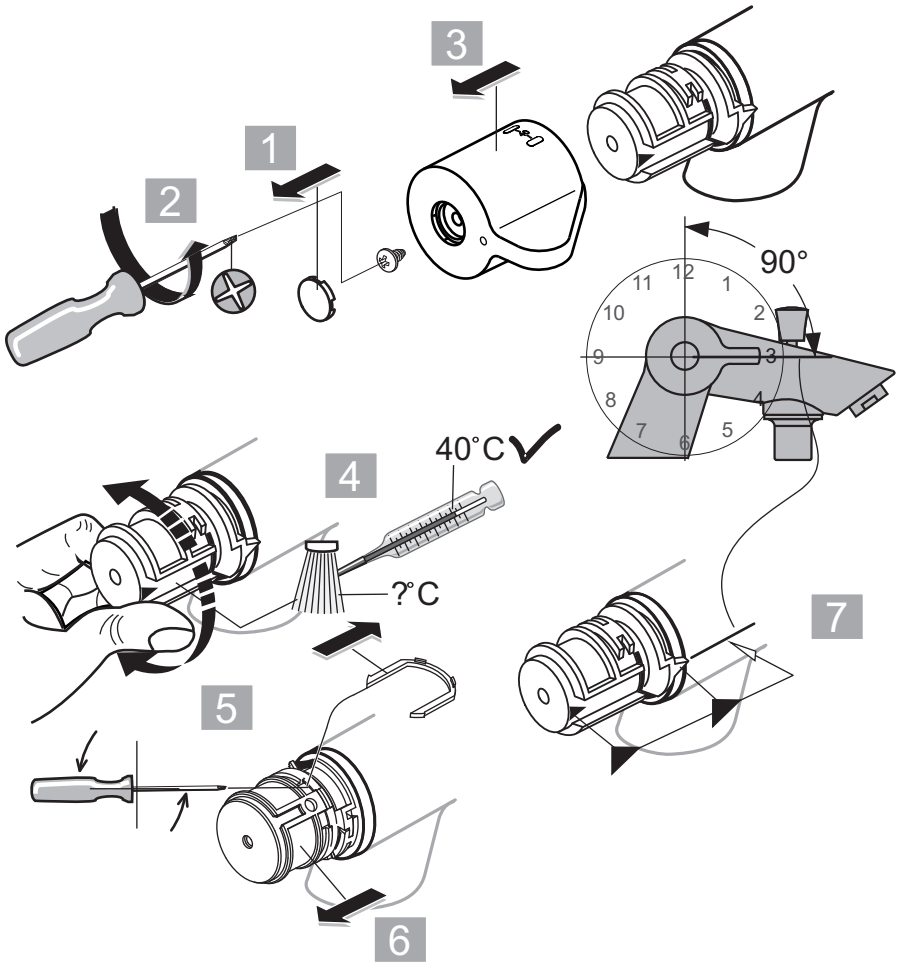


Figure 3 showing calibration sequence

It should not normally be necessary to perform this task as each fitting is accurately calibrated before leaving the factory. However, should the need for calibration arise an accurate thermometer will be required and the hot water supply should be operating at its normal working temperature.

Remove the temperature handle [1-3] . Adjust the temperature handle carrier until the measured temperature is the desired 40°C or 41°C [4].

Slide out the red "U" clip [5] and carefully slide off the handle carrier [6] without rotating it.

Replace the handle carrier aligned at 3 o'clock [7] and replace the red "U" clip. Check the temperature is still as desired. Repeat if necessary.

Replace the handle when satisfied.

6 SAFETY

Note: Safe Bathing Temperature
46°C should be considered the maximum temperature at which the mixed water from a bath tap be set. This maximum temperature takes account of the allowable temperature tolerances inherent in thermostatic mixing valves and temperature losses in metal baths.

46°C is not a safe bathing temperature for adults or children.
The British Burns Association recommends 37 to 37.5°C as a comfortable bathing temperature for children. In premises covered by the Care Standards Act 2000, the maximum mixed water outlet temperature is 43°C.

OPERATING THE FITTING

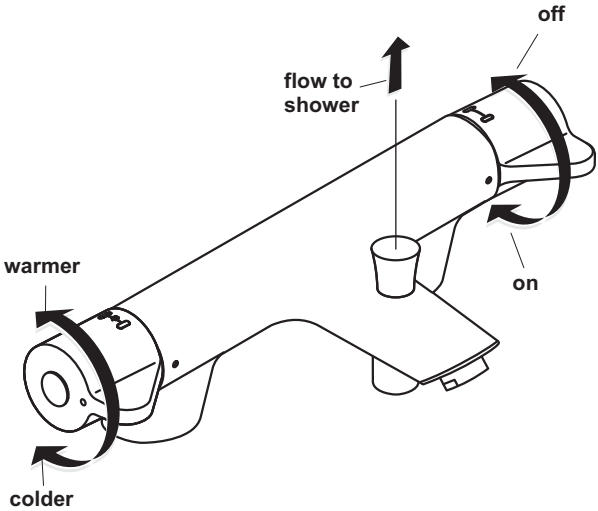


Figure 4 Showing the control positions for the handles.