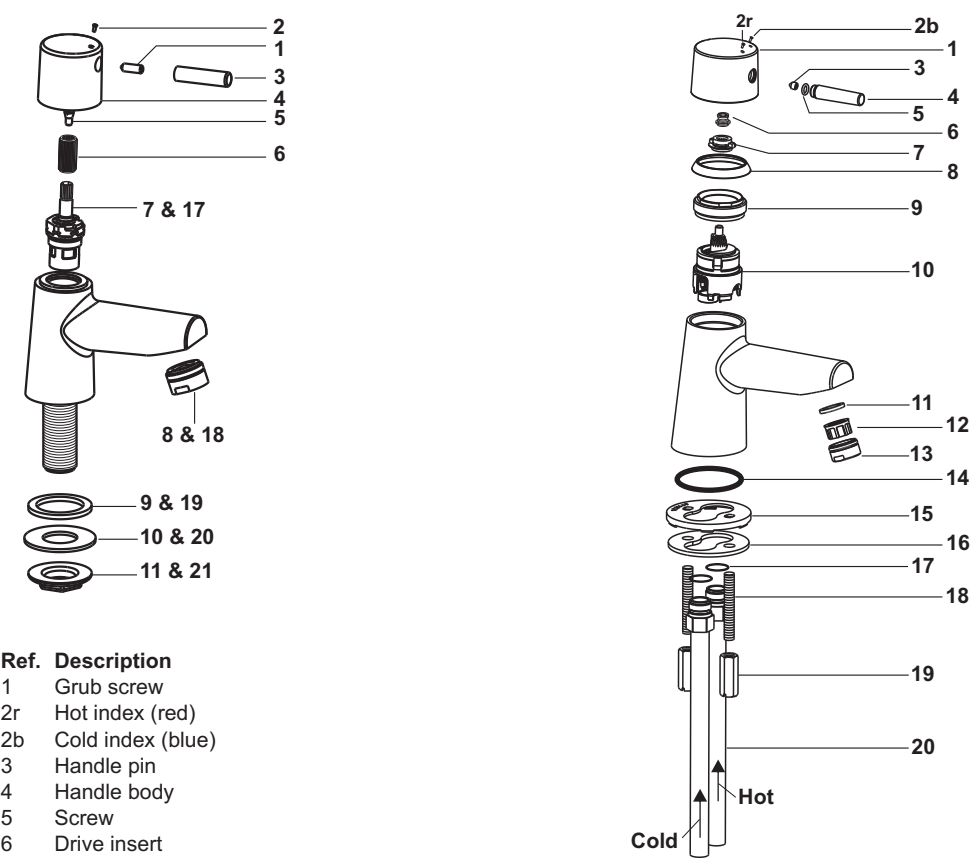


6 PARTS - PILLAR TAPS AND S/L BATH FILLER



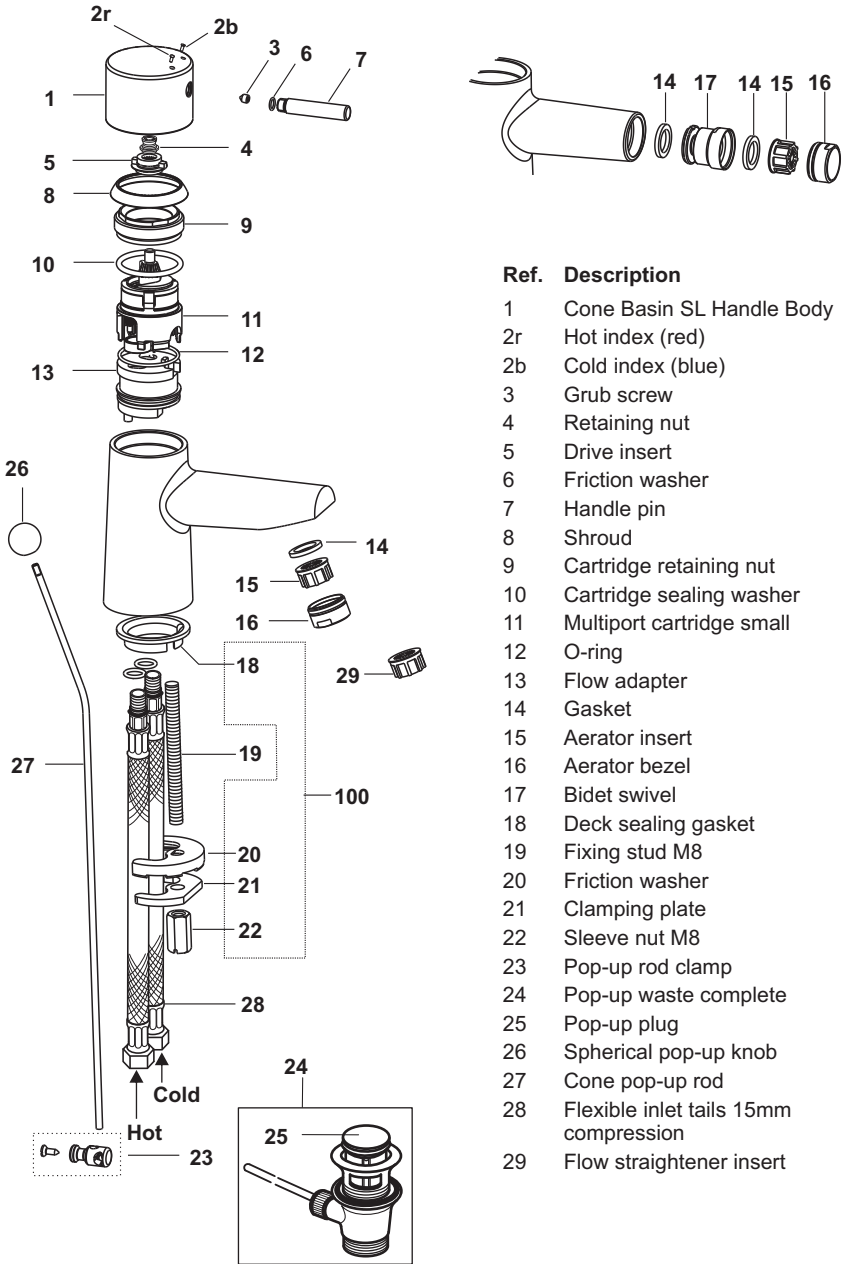
Ref.	Description
1	Grub screw
2r	Hot index (red)
2b	Cold index (blue)
3	Handle pin
4	Handle body
5	Screw
6	Drive insert
7	SE ½ cartridge Basin
8	Flow straightener Basin
9	Sealing washer Basin
10	Friction washer Basin
11	Backnut Basin
17	SE ¾ cartridge Bath
18	Flow straightener Bath
19	Sealing washer Bath
20	Friction washer Bath
21	Backnut Bath

Figure 6 Cone Pillar Taps - Basin B5105 & Bath B5106

Ref.	Description	Ref.	Description
1	Cone SL Bath Handle	11	Gasket
2r	Hot index (red)	12	Flow straightener insert
2b	Cold index (blue)	13	Flow straightener bezel
3	Grub screw	14	Deck sealing gasket
4	Handle pin	15	Friction washer
5	Friction ring	16	Clamping plate
6	Retaining nut	17	Inlet tail gaskets
7	Drive insert	18	Fixing stud
8	Shroud	19	Sleeve nut
9	Cartridge retaining nut	20	Inlet tails
10	Multiport cartridge HF		

Figure 7 Cone Single Lever Bath Filler B5109

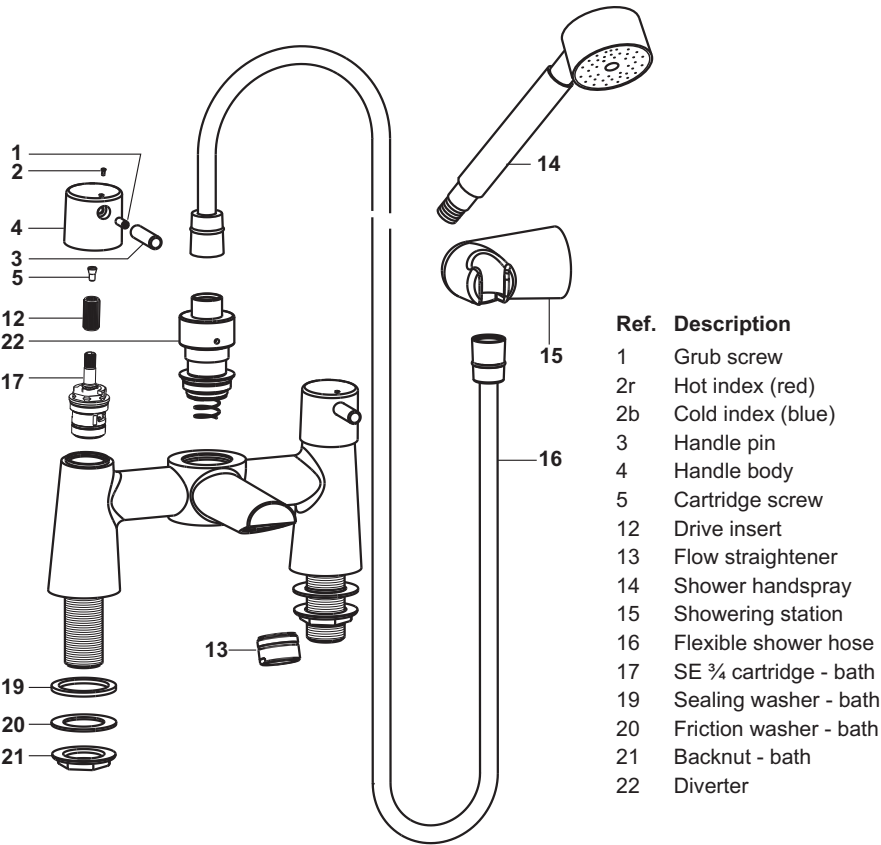
7 PARTS - S/L BASIN AND BIDET FITTINGS



Ref.	Description
1	Cone Basin SL Handle Body
2r	Hot index (red)
2b	Cold index (blue)
3	Grub screw
4	Retaining nut
5	Drive insert
6	Friction washer
7	Handle pin
8	Shroud
9	Cartridge retaining nut
10	Cartridge sealing washer
11	Multiport cartridge small
12	O-ring
13	Flow adapter
14	Gasket
15	Aerator insert
16	Aerator bezel
17	Bidet swivel
18	Deck sealing gasket
19	Fixing stud M8
20	Friction washer
21	Clamping plate
22	Sleeve nut M8
23	Pop-up rod clamp
24	Pop-up waste complete
25	Pop-up plug
26	Spherical pop-up knob
27	Cone pop-up rod
28	Flexible inlet tails 15mm compression
29	Flow straightener insert

Figure 8 Cone Single Lever Basin & Bidet Fillers B5107, B5108 & B9207

8 PARTS - BATH SHOWER MIXER & BATH FILLER



Ref.	Description
1	Grub screw
2r	Hot index (red)
2b	Cold index (blue)
3	Handle pin
4	Handle body
5	Cartridge screw
12	Drive insert
13	Flow straightener
14	Shower handspray
15	Showering station
16	Flexible shower hose
17	SE ¾ cartridge - bath
19	Sealing washer - bath
20	Friction washer - bath
21	Backnut - bath
22	Diverter

Figure 9 Cone Deck Mounted Bath Filler B5110 and Bath Shower Mixer B5111

CONE SINGLE LEVER & DUAL CONTROL BATHROOM FITTINGS



Installation Instructions

- B5105 Cone Basin Pillar Taps
- B5106 Cone Bath Pillar Taps
- B5107 Cone S/L Basin Mixer + P/U Waste
- B5108 Cone S/L Bidet Mixer + P/U Waste
- B5109 Cone 1 Hole Bath Filler
- B5110 Cone 2 Hole Bath Filler
- B5111 Cone 2 Hole Bath Shower Mixer + S/Kit
- B9207 Cone SL Basin Mixer without P/U Waste

CUSTOMER CARE HELPLINE
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INSTALLER: After installation please pass this instruction booklet to user

2 CONNECTIONS & WATER SUPPLIES

The fittings covered by this installation and maintenance instruction should be installed in accordance with the water regulations published in 1999*, therefore Ideal Standard 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

Connections

Basin pillar taps	G ½
Bath pillar taps & two hole fittings	G ¾
Basin & Bidet one hole fittings	

Flexible tails (screw in) with 15mm compression connections

Bath filler one hole

15mm copper tails (screw in)

IMPORTANT NOTE

All Cone fittings except the Single Lever Bath Filler follow the convention of having the hot water connection on the left. The S/L Bath Filler (B5109) however, has the hot connection on the right.

Water Supplies

All Cone fittings are designed for installation on normal UK low pressure storage tank fed systems or unvented high pressure systems. With mixers, it is a requirement that hot and cold supplies be at reasonably balanced pressures and from a common source, i.e. both from a low pressure gravity fed system, or both from a high pressure unvented system.

Basin and bath fittings are designed to operate in the pressure range 0.1 bar to 5.0 bar. Bidet fittings are designed to operate in the pressure range 0.2 bar to 5.0 bar.

All mixer fittings are supplied with a flow straightener in the spout except the basin mixers B5107AA & B9207AA. When fitting on pressures in excess of 1.0 bar it is recommended than an aerator (not supplied) should be substituted.

These are available from Ideal Standard stockists:

Bidet	A960931AA
Bath fittings	A960309AA.

The basin mixers B5107AA & B9207AA have a 5 litre/min regulated aerator (B960754AA) with a flow straightener insert (A962713NU) supplied separately. When fitting on pressures below 1.0 bar it is recommended than the aerator insert (fitted) should be substituted with a flow straightener insert.

Safety

To ensure safety with bath and bidet mixers installed on low pressure tank fed systems, it is strongly recommended that the cold water feed from the storage tank is connected below the feed to the hot water storage cylinder.

Backflow Protection

The water regulations published in 1999* take a new approach to backflow in that they look at different categories of risk.

The installer must assess the risk from the various categories of fluid in adjacent appliances before determining the level of backflow protection required for a particular installation.

A separate leaflet entitled

Supplementary guidance on back flow prevention when installing bath shower mixers E965049

which is packed with every bath shower mixer, gives full details of this requirement.

3 FIXATION

Installation

Flush water through the pipework before connecting the fittings.

Insert the fitting through the tap hole ensuring the o-ring seal or gasket is positioned above the tap platform and is seated evenly on its top surface.

Tighten the backnuts or sleeve nuts.

(Figure 2)

IMPORTANT NOTE

The one hole bath filler is designed for a corner installation (see Fig 1) or a position along the front side rim of the bath. Do not fit in line with the overflow assembly.

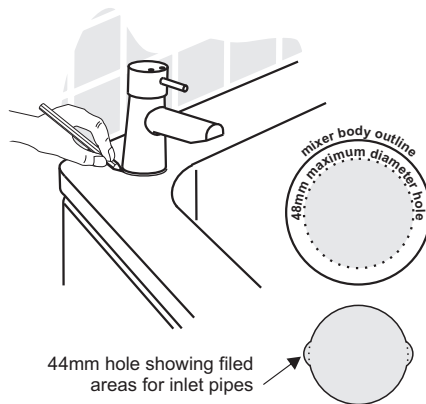


Figure 1
Tap hole details for S/L bath filler B5109

The Cone monoblock bath fitting requires a bath supplied without tap holes. The installer will have to drill a 48mm diameter hole in the rim. Before this is done the following will have to be considered.

If located directly in line with the overflow the pop-up waste may foul the under-parts of the fitting.

If a shower screen is to be fitted it could foul the fitting.

NOTE

Although 48mm cutters are available from most manufacturers, they are not yet as commonly available at trade counters as other sizes. It is important if making-do with a wrong size cutter to ensure that it is not greater than 48mm
e.g. A 1½" (44mm) cutter can be used and the hole filed out locally to accommodate the inlet pipes. (Figure 1)

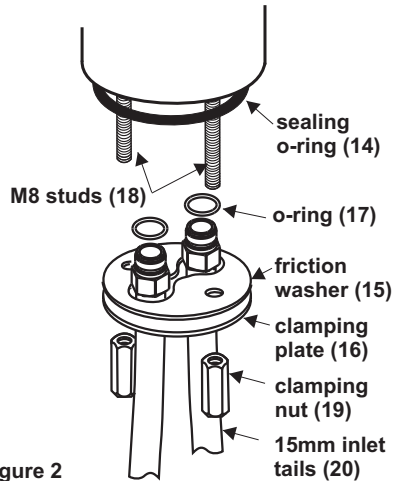


Figure 2

Before fitting the tails, offer up the bath S/L in the intended location and check for free movement of the lever. Draw a pencil line around the base (Figure 1)

In the center of the of the outline, drill the 48mm hole. (Figure 1)

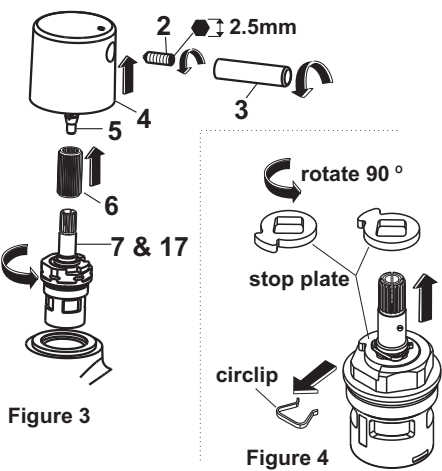
Fit the supply tails (20) ensuring the O-rings (17) are correctly located in the groove below the M18 threads. Place the sealing o-ring (14) in the groove on the underside of the fitting base.

Place the fitting concentrically in the new tap hole and ensure the sealing o-ring (14) is seated correctly on top of the bath. The plate and washer (15 & 16) must be placed against the underneath surface of the bath tap deck. Tighten the sleeve fixation nuts until the fitting is secure. (Figure 2)

4 HANDLE FIXATION & CARTRIDGE REPLACEMENT

Always turn off water supplies before replacing a cartridge

Quarter turn cartridge



The pillar taps and 2 hole bath fittings employ SE quarter turn cartridges. These are replaced as follows:

Remove handle by first unscrewing handle pin (3) - use several layers of masking tape if pliers have to be used - then unscrew grub screw (2). Pull off the handle (4).

Unscrew cartridge screw (5) and pull off drive insert (6). Cartridge (7 or 17) can then be unscrewed. (Figure 3)

The direction of rotation of the cartridge can be reversed by rotating the stop plate by 90°.

Prise off circlip and lift off stop plate. Replace stop plate rotated by 90° and refit circlip. Fig 4

Single lever cartridge

Refer to Figure 5. Unscrew handle pin (7) Wrap several layers of masking tape around it if pliers need to be used.

Unscrew grub screw (3) and pull off handle body (1). Unscrew retaining nut (4) and lift off drive insert (5). Pull off shroud (8).

Unscrew cartridge retaining nut (9) and lift out the cartridge (11)

Replace in reverse order.

When fitting the new cartridge, care must be exercised to ensure the plastic location pin on the cartridge base engages in the location hole inside the fitting body and not into one of the water inlet ports.

When tightening the retaining nut which both locates and seals the cartridge, care must be taken not to over-tighten.

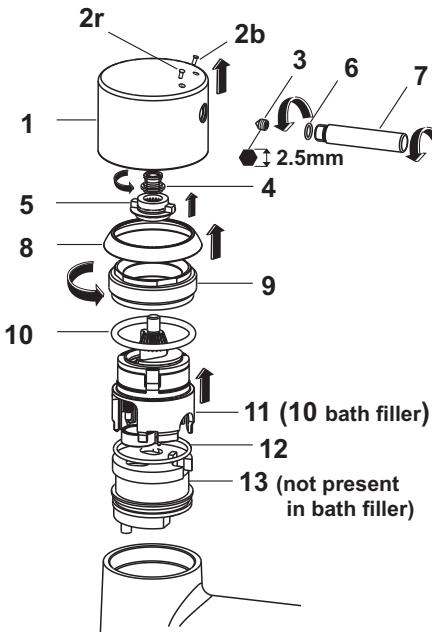


Figure 5 Single lever cartridge assembly (drawing shows basin monoblock)

The ideal torque is 4 Nm. This is only a little more than hand tight - indeed it is possible to tighten the nut sufficiently wearing stout gloves. If over-tightened the cartridge will be stiff to operate and will have a limited life.

Note: The bath cartridges, although they look similar to the basin cartridges, are constructed to give a higher flow rate and are therefore different.

5 SETTING THE BLEND CONTROL

The Cone single lever fittings employ multiport cartridges which have a blend control mechanism. This is a simple mechanical limit stop located under the single lever handle which restricts the angle to which the handle can be rotated towards the full hot position.

To set it, the hot water system should be on and the hot water up to normal working temperature. A thermometer will be required to measure the maximum blend temperature.

Remove the handle as previously described and pull off shroud. (Figure 5)

The blend control stop (white crescent shaped plastic moulding - shown shaded) can then be removed.

In its factory set position "0" - shown dotted in Figure 10 - it does not limit the lever handle movement therefore the water temperature will be at its highest.

Insert the limit stop in position 4 - shown shaded in Figure 10.

Operate the fitting and measure the mixed

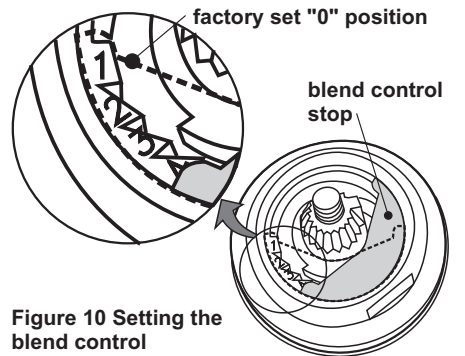


Figure 10 Setting the blend control

water temperature at the maximum setting.

If not high enough, reposition the stop in position 3 and check the temperature again.

Repeat the process until the temperature at the maximum temperature position is satisfactory. Refit the shield and handle and check that the maximum blend temperature remains unchanged.

SAFETY FOR THE USER

The fittings are not thermostatically controlled and outlet temperatures depend on the position of the control handle, the hot and cold temperatures and pressures. If cold water supply fails for any reason, only hot water at its maximum temperature will be delivered.

Before using the handspray check that the temperature of the mixed water is satisfactory.

Young children, the elderly and infirm should be supervised when using the bath or handspray.

CLEANING

When cleaning the fittings always use soap based cleaners.

Never use abrasive or scouring powders and never use cleaners containing alcohol, ammonia, nitric acid, phosphoric acid or disinfectants.