

PLUMBERS INSTALLATION INSTRUCTIONS**Important Information**

- * **Not suitable for gravity feed systems.**
- * **Basin outlet is fitted with a flow regulated aerator insert. This low flow rate may not be suitable for connection to some Instantaneous Gas Water Heaters, some Tempering Valves, some Solar Water Heaters & some Thermostatic Mixing Valves. Check with the manufacturers of these products. For applications where flow regulation is not suitable (e.g. bath) a full flow aerator insert has been provided within the packaging. To convert the basin outlet to a bath outlet, refer to 'Replacing Aerator Insert'**
- * **Brazed connections should NOT be made directly onto the mixer, as excessive heat will cause permanent damage.**
- * **All pipework must be thoroughly flushed prior to installation, as foreign materials may block the flow regulating device and reduce the flow of water. Note: Aerator insert must be retightened by coin to prevent removal by hand.**

Installation

- 1) First decide on the installed position of the mixer body (9) and outlet (12) then fit suitable fittings to the connection ports of the mixer (9) (Fig.2). When facing the mixer, the connections should be as follows:

Hot water inlet connection 'H' to the left.

Cold water inlet connection 'C' to the right.

Mixed water outlet connection, vertically upwards.

Fit the mixer body (9) and a lugged elbow (10⁺) onto a suitable noggin in the wall and secure using screws through the holes in their bases. **Note:** If the outlet (12) is to be located in close proximity to the mixer body (9), take care that their centres are in horizontal or vertical alignment. A suitable elbow fitting (11⁺) may be required to be fitted to the inlet connection adjacent to the lugged elbow (10⁺) (Fig. 2).

Important :

- * The mixer body (9) and the lugged elbow (10⁺) must be installed square to the wall/tile face to ensure correct installation.
 - * To avoid damaging the decorative finish, do not remove the protective sleeve until installation has been completed.
- 2) Complete the connections. (Fig. 2). Check all connections for leaks and the mixer for correct operation.
Note: Pipework and fittings are not supplied.

IMPORTANT**Pressure & Temperature Requirements.**

- Hot and cold water inlet pressures should be equal.
- Static inlet pressure range : 150 -1000 kPa
New Regulation :-500 kPa maximum static pressure at any outlet within a building. (Ref. AS/NZS 3500.1)
- Maximum hot water temperature : 80°C.

+ Not supplied.

- 3) Carefully slide the cover plate (5) together with trim cover & seal (5a) onto the mixer body (9) ensuring the **Caroma** marking is horizontally aligned. Push firmly on the trim cover until the cover plate (5) contacts the wall/tile face. (Fig. 1). Fit the cover plate (16) over the thread of the lugged elbow (10⁺) & check that the thread is the correct length as shown (Fig. 4). Cut to length if required ensuring end face is square. Apply thread tape to the thread. **Important:** Care must be taken that thread tape cannot become dislodged and block the flow regulating device, causing a reduction in water flow. To ensure correct installation, length of exposed thread must not exceed 10mm.
- 4) Fit handle (1) taking care that it is pushed fully onto cartridge stem, tighten screw (2) using the 2.5mm allen key (3) then fit plug (4).
- 5) Locate the cover plate (16) on the thread of the wall elbow (10⁺) with the **Caroma** marking horizontally aligned. Screw the spigot (15) onto the thread of the lugged elbow (10⁺) using a 10mm allen key (13⁺) until the cover plate (16) is held securely against the wall/tile face. **DO NOT OVERTIGHTEN.** Apply suitable lubricant to 'O'Rings (14).
- 6) Fit wall outlet (12) onto the spigot (15), then carefully push it firmly against the cover plate while tightening grub screws (18) using the 2.5mm allen key (3) provided. Take care that the aerator insert (17) is pointing vertically downwards before tightening screws (18). (Fig.4)
- 7) Turn on Hot and Cold water supplies and check operation.

Replacing Cartridge (Fig. 1)

- 1) Turn off hot and cold water supplies.
- 2) Carefully remove plug (4) before using a 2.5mm allen key (3) to loosen grub screw (2) and remove handle (1). Remove cap (6) taking care not to damage the decorative finish. Unscrew nut (7) then lift out old cartridge (8).
- 3) Ensure inside face of mixer body (9) is clean. Check that seal is in position in base of new cartridge (8). Fit new cartridge (8) into mixer body (9), taking care that two lugs on base of cartridge (8) fit into mating holes in mixer body (9).
- 4) Screw on nut (7). **Important:-** Nut (7) should be tightened to a torque of 10 Nm.
- 5) Replace cap (6), tightening by hand. Fit handle (1) taking care that it is pushed fully onto cartridge stem, then tighten grub screw (2) by using allen key (3). Replace plug (4) taking care not to damage the decorative finish.
- 6) Turn on water supplies and check operation.

Replacing Aerator Insert

- 1) Carefully remove aerator (17) from outlet (12) using a coin to loosen.
- 2) Deposits of lime can be removed by washing in a vinegar solution.
- 3) Screw new aerator insert (17) into outlet (12) and tighten securely with coin (to prevent removal by hand).

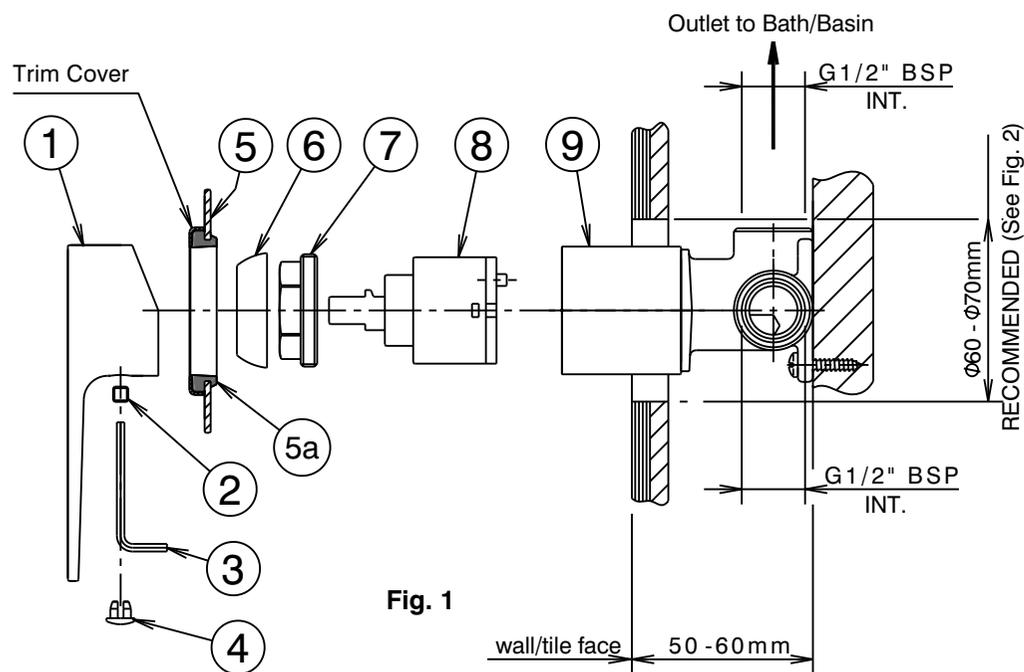


Fig. 1

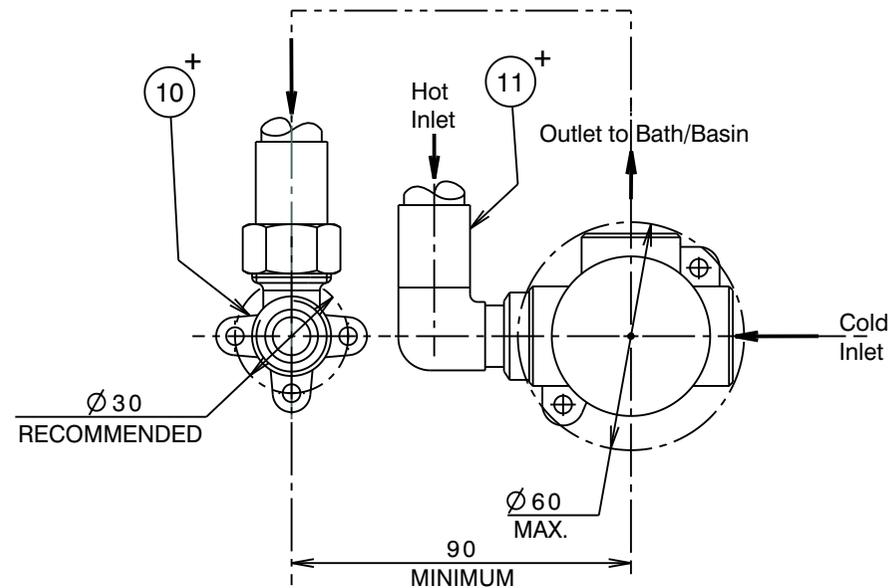


Fig. 2 (Left hand installation shown)

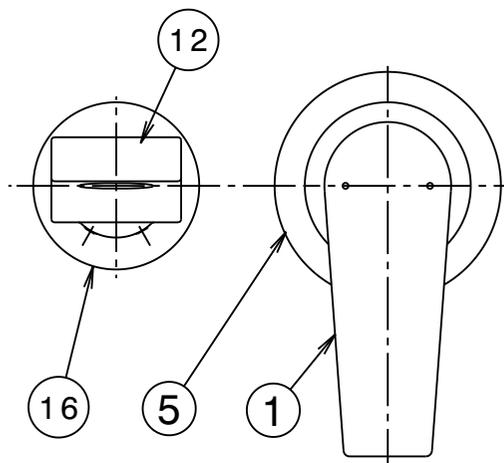


Fig. 3 (Left hand installation shown)

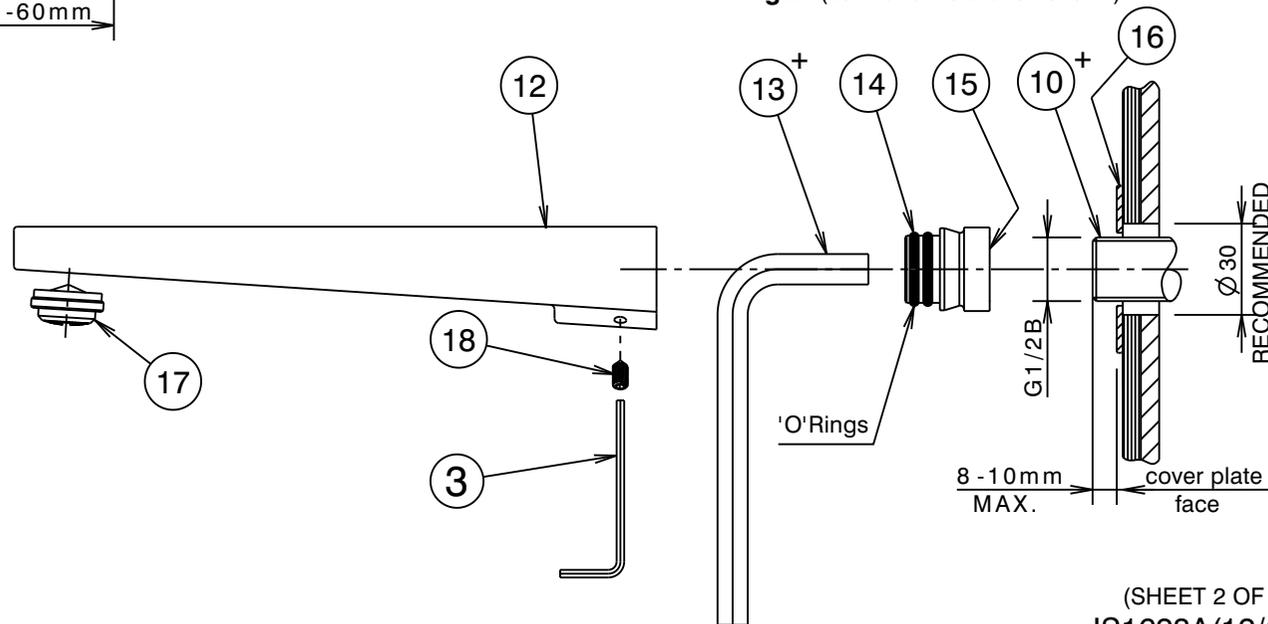


Fig. 4