

# Caroma® MORGANA - WALL BASIN/BATH MIXER

## WATER EFFICIENT TAPWARE

### PLUMBERS INSTALLATION INSTRUCTIONS

#### Important Information

- \* HOT & COLD WATER INLET PRESSURES MUST BE EQUAL.
- \* 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.  
Note:- An aerator insert kit (Part No. SP2001), is available if required. 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.

#### Installation

- Determine if outlet (17) is to be positioned to the right or the left of the mixer body (8) when installed (Fig. 3.). Fit suitable fittings to the connection ports of the mixer (8) (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.  
**Note:** A suitable elbow fitting (13<sup>+</sup>) should be fitted to the inlet connection adjacent to the lugged elbow (12) (Fig.2). Attach the mixer body (8) & the lugged elbow (12) to the mounting plate (11) with screws (10) and tighten using a suitable screw driver. Note: Mounting plate can be rotated 180° to change hand.
- Fit the mounting plate (11) onto a suitable noggin in the wall & secure using screws through the holes in each corner.  
**Important :**
  - \* The mounting plate (11) must be installed horizontal & parallel to the face of the wall studs to ensure correct installation.
  - \* To avoid damaging the decorative finish, do not remove the protective sleeve until installation has been completed.
- 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.

##### Installation Requirements.

- The installing plumber is responsible for waterproofing all penetrations for Taps in Shower areas at installation by a proprietary flange system or a sealant.(Ref AS3740)

- Apply a suitable clear sealant to the back face of the cover plate (9), leaving an unsealed section at the bottom for drainage. Carefully fit the cover plate (9) onto the mixer body (8), push firmly on the cover plate (9) until it contacts the wall/tile face. Wipe clean any excess sealant from the chrome surfaces & the wall/tile face (See Fig. 1). Check that the thread on the lugged elbow (12) 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.
- Fit handle (1) taking care that it is pushed fully onto cartridge stem, tighten screw (4) using the 2.5mm allen key (3) then fit plug (2).
- Screw the spigot (15) onto the thread of the lugged elbow (12) using a 10mm allen key (14<sup>+</sup>) until the cover plate (9) is held securely against the wall/tile face. DO NOT OVERTIGHTEN. Apply suitable lubricant to 'O'Rings on spigot (15).
- Fit wall outlet (17) onto the spigot (15), then carefully push it firmly against the cover plate while tightening grub screws (16) using the 2.5mm allen key (3) provided. Take care that the aerator housing (20) is pointing vertically downwards before tightening screws (16). (Fig.4)
- Turn on Hot and Cold water supplies and check operation.

+ Not supplied.

#### Replacing Cartridge (Fig. 1)

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

#### Replacing Aerator Insert(Fig.4)

- Carefully remove aerator housing (20) from outlet (17), taking care not to damage the decorative finish.
- Remove 'O'Ring (18) & aerator insert (19) from aerator housing (20). Check that aerator housing (20) is clean. Deposits of lime can be removed by washing in a vinegar solution.
- Fit new aerator insert (19) into aerator housing (20) followed by 'O'Ring (18) then screw assembly into outlet (17) and tighten securely (to prevent removal by hand).

### PLUMBERS INSTALLATION INSTRUCTIONS

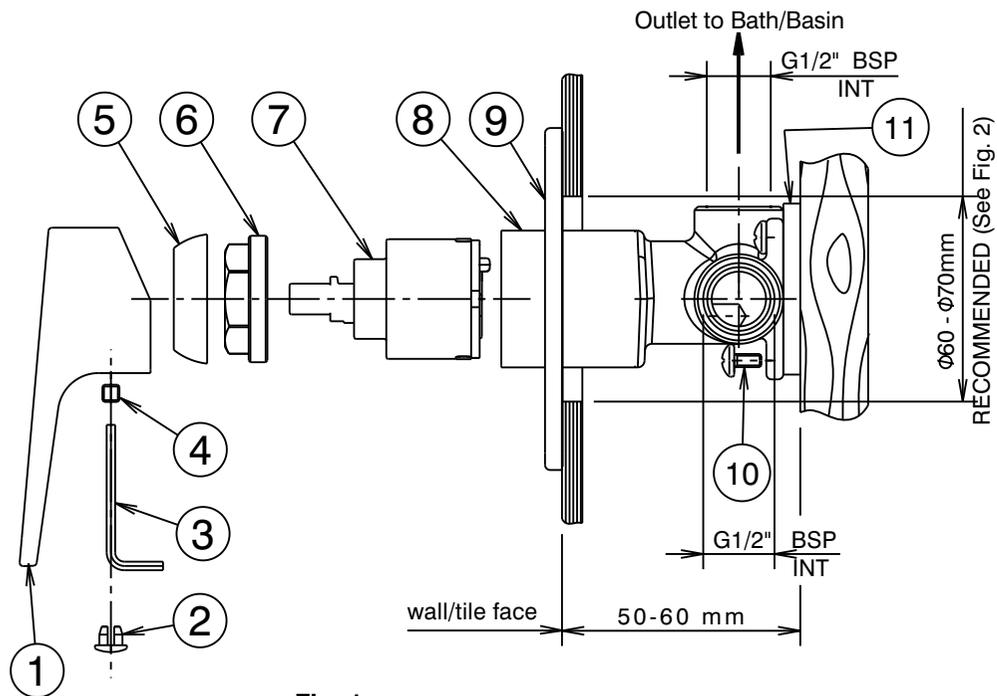


Fig. 1

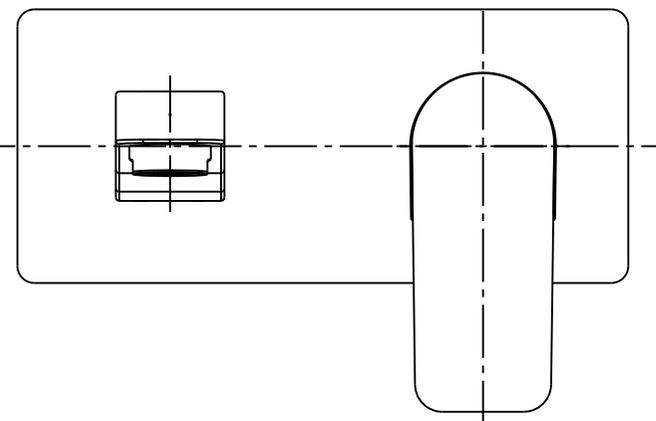


Fig. 3 (LH Installation Shown)

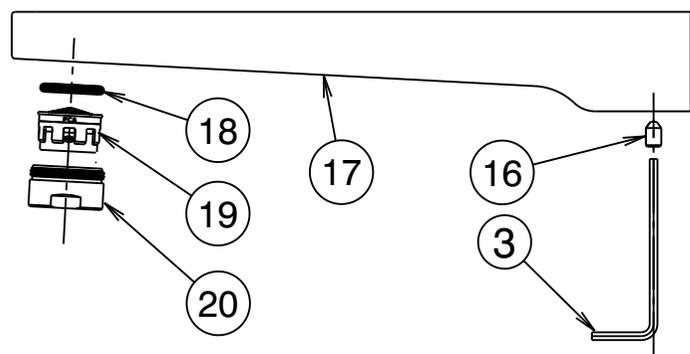


Fig. 4

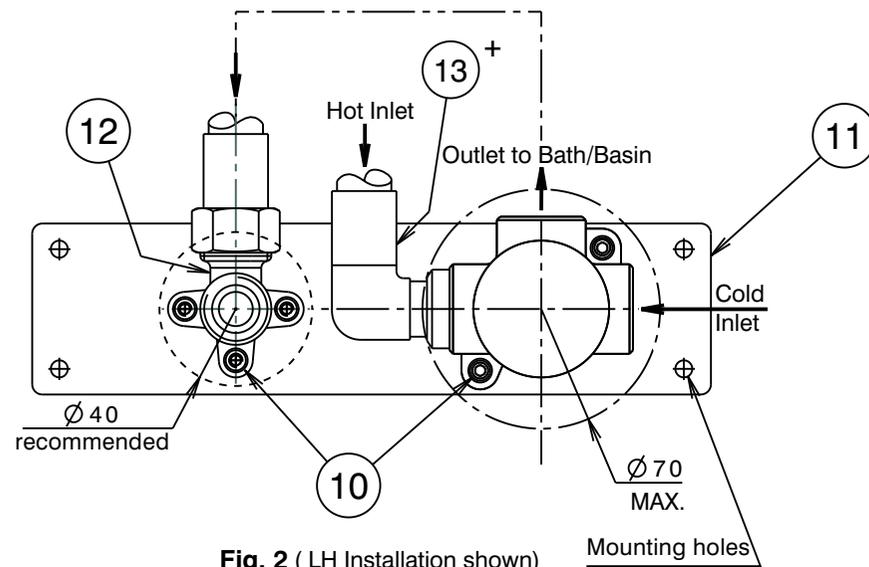


Fig. 2 (LH Installation shown)

