

## ELVIRE WALL BASIN 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.**
- \* **Brazed connections should NOT be made directly onto the mixer, as excessive heat will cause permanent damage.**
- \* **Final install must be checked at rough-in stage (step 1).**
- \* **This mixer accomodates in-wall depths from 65 - 75mm. For installations with less than 75mm, the handle insert (6) must be cut by using spacer (4) as a template. (Step 3 & Fig.6.)**
- \* **This mixer is fitted with a 'Progressive' cartridge. To operate the cartridge, the handle is rotated clockwise (Fig.5). The first 90° of handle rotation will only select cold water, avoiding unnecessary use of hot water. Further rotation of the handle will deliver a mixture of hot and cold. When the handle is rotated fully clockwise, only hot water will flow.**
- \* **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 to prevent removal by hand.**

#### Installation (Figs. 1-6)

- 1) Fit mixer body assembly (12+13) onto a suitable mounting plate or noggin in the wall and secure using screws through the holes in its base. When facing the mixer, the connections should be as follows (Fig.2):  
Hot water inlet connection 'H' below mixer cartridge.  
Cold water inlet connection 'C' to the right of mixer cartridge.  
Mixed water outlet connection, to the left of mixer cartridge.  
Check all connections for leaks and the tap for correct operation.  
**Important :**
- \* Mixer body (12+13) must be installed square to wall/tile face and horizontal to ensure centreline of mixer handle & outlet aligns with finished tile joints.
- \* To avoid damaging the decorative finish, do not remove the plastic protective sleeves until installation has been completed.  
Check that rubber seal is in position inside rough-in cap (18) then screw cap (18) onto G1/2B thread of nipple (13) and tighten by hand. Check all connections for leaks.  
**Note:** Rough-in cap (18) is also used as a guide for the tiler, to ensure hole in wall/tile face does not exceed  $\varnothing 35\text{mm}$ .

- 2) Carefully pass the sleeve (7) through the cover plate (8) and 'O'Ring (9) then screw the sleeve (7) into the thread of nut (10) on mixer body (12) to fully compress the foam seal against the wall/tile face, taking care not to damage the decorative finish.
- 3) **When the metal handle (1) is to be fitted:-**  
If required, using the **plastic** handle spacer (4A) as a template, place the flat side of the spacer against the front surface of the sleeve (7) & scribe a line around the plastic insert (6) as shown (Fig.6). Carefully cut the plastic insert (6) along the marked line and remove any burrs, then slide the **plastic** handle spacer (4A) onto the plastic insert (6) until spacer rests against the sleeve (7).  
**When the timber handle is to be fitted:-**  
If required, using the **brass** handle spacer (4B) as a template, place the flat side of the spacer against the front surface of the sleeve (7) & scribe a line around the plastic insert (6) as shown (Fig.6). Carefully cut the plastic insert (6) along the marked line and remove any burrs, then slide the **brass** handle spacer (4B) onto the plastic insert (6) until spacer rests against the sleeve (7).
- 4) Rotate the plastic insert (6) anti-clockwise to the stop position. Fit handle (1) onto insert (6) with the handle fixing scw hole pointing vertically downwards as shown (Fig.1). While holding the handle (1) firmly against the spacer (4), tighten grub screw (2) using the 2.5mm allen key (3).
- 5) Apply thread sealant to the threaded nipple (13).  
**Important:** Care must be taken that thread tape cannot become dislodged and block the flow regulating device, causing a reduction in water flow. Slide the cover plate (15) together with the 'O'Rings over the outlet (14) as shown (Fig.3). Carefully screw the outlet (14) onto the threaded nipple (13) until the threaded end is close to the wall/tile face and the aerator insert (16) is pointing down as shown, taking care not to damage the decorative finish. **DO NOT OVERTIGHTEN.** Push the cover plate (15) along the outlet (14) until it contacts the wall/tile face.
- 6) Turn on Hot and Cold water supplies and check operation.

#### Replacing Cartridge (Fig. 1)

- 1) Turn off hot and cold water supplies.
- 2) Using a 2.5mm allen key (3), loosen grub screw (2) then remove handle (1) & spacer (4). Undo screw (5) using a 2.5mm allen key then remove handle insert (6). Unscrew sleeve (7) and remove cover plate (8), taking care not to damage the decorative finish. Unscrew retaining nut (10) (32mm A/F) then lift out the old cartridge (11).
- 3) Ensure inside face of mixer body (12) is clean. Check that seals are in position in base of new cartridge (11). Fit new cartridge (11) into mixer body (12), taking care the lug on base of cartridge (11) fits into mating hole in mixer body (12). Screw on nut (10).  
**Important:** Nut (10) should be tightened until solid. Rotate the cartridge (11) spindle anti-clockwise to the stop position then fit insert (6) ensuring the flat sides of the insert are in horizontal/vertical alignment. Small adjustments can be made to the alignment by loosening nut (10) and rotating the cartridge slightly before re tightening the nut. Retain the insert (6) to the spindle using screw (5). Replace the cover plate (8) (see installation step 2).
- 4) Slide the handle spacer (4) onto the plastic insert (6) until the spacer rests against the sleeve (7). Fit handle (1) onto insert (6) with the handle fixing screw hole pointing vertically downwards as shown (Fig.1). While holding the handle (1) firmly against the spacer (4), tighten grub screw (2) using the 2.5mm allen key (3).
- 5) Turn on water supplies and check operation.

#### Removing Aerator Insert (Fig. 3)

- 1) Aerator insert (16) can be removed with spanner (17).
- 2) Deposits of lime can be removed by washing in a vinegar solution.
- 3) When replacing aerator insert (16), be careful that thread is engaged correctly and 'O' ring is not damaged as it enters the bore. Tighten securely (to prevent removal by hand) using spanner (17).

#### **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.

# CAROMA

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