

# CAROMA LIANO II - PULL OUT SINK MIXER

## WATER EFFICIENT TAPWARE

### PLUMBERS INSTALLATION INSTRUCTIONS

#### Important Information

- \* Retaining screw (25) is supplied in a bag, retaining screw (25) must be installed to complete the installation. Failure to complete this step will void the warranty.
- \* Not suitable for gravity feed systems.
- \* Mixer is fitted with a regulated 6.0L/min aerator insert (38). 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. If required, 6.0L/min aerator insert (38) can be replaced with 4.5L/min aerator insert (39) (Supplied in a bag) to get lower flow rate, (See "Replacing Aerator insert"). Check with the manufacturers of these products.
- \* Isolating stop taps must be fitted to the hot & cold water supply connections. (Part No. 842018C - Mini cistern 1/4T)
- \* All pipework must be thoroughly flushed prior to installation, as foreign materials may block the flow regulating device and reduce the flow of water.

#### Handle position adjustment

Determine if the handle position should be Right hand facing or Front facing ;

- 1) Unscrew the cover (32) by hand and lift it up just enough to expose the retainer (24), Care must be taken while lifting the cover (32) to prevent damage to the decorative finish on cover (32) & outlet (33).
- 2) Take the screw (25) out of the bag,

**For Right hand facing handle:** Rotate outlet (33) to align the hole in the retainer (24) with the hole in the body, insert the screw (25) and screw it in using allen key (5) until the front of the screw (25) is flush with the cylindrical face of body (9). Slide the cover (32) back down, screw it by hand and hand tighten.

**For Front facing handle:** Pull the outlet (33) out of the body (9). Remove the retainer (24) out, flip it 180 degrees and position it as shown in Fig.3, ensure that thrust washer (28) & split ring (30) are fitted in place and 'O' rings (29) not damaged, push the outlet (33) back fully into the body (9), align the hole in the retainer (24) with the hole in the body, insert the screw (25) and screw it in using allen key (5) until the front of the screw (25) is flush with the cylindrical face of body (9). Slide the cover (32) back down, screw it by hand and hand tighten.

**Note:** Mixer is fitted with a 140° limited swivel retainer (24), To suit single bowl sink installations, swivel limit can be changed to 70° by swapping the retainer (24) in above steps with retainer (41).

#### Installation

- 1) Ensure 'O' ring (11) is fitted into groove in base ring (10).
- 2) **Note:** For thin decks, a triangle spacer (19) is supplied, which can be fitted prior to the flat seal (13). Insert the inlet connection end (18) of each flexible tail (17) firstly through the hole in the deck, followed by pull-out hose end (19). Insert threaded tube (12) of mixer into deck hole, position the mixer as required, fit metal washer (14) together with flat seal (13) over threaded tube (12) of mixer (9) as shown in Fig. 1. Screw clamp ring (15) onto threaded tube (12) until it contacts washer (14) and the flat seal (13) has contacted the underside of the deck. Tighten two screws (16) equally until mixer assembly is clamped firmly to the deck. DO NOT OVERTIGHTEN.

- 3) **Flexible Tail Inlet Connections:** Connect the flexible tails (17) to the hot and cold isolating stop taps, hand tighten the connecting nut (18) until rubber cone contacts the sealing face of the connection end, then tighten a further one turn to provide a watertight joint.

**Important:** Flexible tails must not be kinked, twisted or in tension when installed. (Minimum Bend Radius:- 50mm) Do not install flexible tails where subject to ultra violet light.

- 4) **Spring installation:** Screw the valve housing (22) onto the threaded end of outlet tail (23) and hand tighten. Screw one end of spring holder tube (34) onto the male thread of spigot (20). Remove the clip (35) of tube (34) towards the spigot (20) end to allow the spring (36) to slide over the pull out hose (19). Compress the spring (36) by hand until spigot (20) is exposed then while holding the spigot (20) unscrew the spring holder tube (34) to prevent spring (36) from coming off, then push spigot (20) together with 'O' ring (21) into valve assembly (22) until a 'click' sound is heard. If it doesn't click into place then remove the spigot (20) out of the valve assembly (22) by pressing the button and push it back in the valve assembly (22) until you hear the 'click' sound, repeat if no 'click' sound is heard.

- 5) Turn on water supplies and check tap operation to ensure there's no leakage at valve assembly (22) and tail (17) inlet connections.

#### Replacing Cartridge

- 1) Turn off hot and cold water supplies.
- 2) Carefully remove plug (4) before using a 2.5mm allen key (5) to loosen grub screw (2) and remove handle (1). Remove cap (6) taking care not to damage the decorative finish. Unscrew nut (7) then pull out cartridge (8).
- 3) Ensure inside face of mixer body (9) is clean. Check that seals are 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 9 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). Fit plug (4) together with 'O'-ring (3), taking care not to damage the decorative finish.
- 6) Turn on water supplies and check operation.

#### Removing Aerator Insert

- 1) Deposits of lime can be removed by washing in a vinegar solution.
- 2) When replacing aerator insert (38) or (39), be careful that thread is engaged correctly and 'O' ring is not damaged as it enters the bore. Tighten securely using spanner (40).

IMPORTANT	
<b>Pressure &amp; Temperature Requirements.</b>	
<ul style="list-style-type: none"> <li>• Hot and cold water inlet pressures should be equal.</li> <li>• 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)</li> <li>• Maximum hot water temperature : 80°C.</li> </ul>	
<b>Deck Requirements</b>	
<ul style="list-style-type: none"> <li>• Deck thickness : 42mm maximum</li> <li>• Tap body hole (in deck) : Ø34-36mm</li> </ul>	

