

PLUMBERS INSTALLATION INSTRUCTIONS

Important Information

- * Trim kit (1-7 & 13-16) and body kit (8-12 & 17) are supplied in separate boxes.
- * 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. 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 'Removing 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 to prevent removal by hand.
- * Tile adhesive/grout etc. must not interfere with the removal of the protective sleeves and installation of the trim components.

Installation

- 1) *Body kit:* Fit mixer body assembly (10-12) 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 (10-12) must be installed square to wall/tile face and horizontal to ensure cover plate (5) aligns with finished tile joints.
 - * To avoid damaging the decorative finish, do not remove the plastic protective caps until installation has been completed. Check that rubber seal is in position inside rough-in cap (17) then screw cap (17) onto G1/2B thread of nipple (12) and tighten by hand. Check all connections for leaks.
Note: Rough-in cap (17) is also used as a guide for the tiler, to ensure hole in wall/tile face does not exceed Ø40mm.
- 2) *Trim kit:* Remove protective cap from mixer body (10) and make sure the external surface of mixer body (10) is clean. Apply lubricant on the 'O'-ring, then slide sleeve (7) (with WaterMark marking underneath) over mixer body (10) up to the shoulder as shown. Screw cap (6) onto the thread of nut (8) and hand tighten to secure the sleeve (7). Remove the rough-in cap (17) & discard.

- 3) Carefully slide the cover plate (5) (fitted with 'O'-ring) over the mixer body sleeve (7) with the 'CAROMA' logo aligned at the bottom. Push the cover plate (5) firmly against the wall/tile face.
- 4) Fit the cover plate (13) over threaded nipple (12) and check that the thread is the correct length, as shown. 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.
Screw spout (14) onto threaded nipple (12) & engage with the hole in the cover plate (13), continuing until the shoulder contacts the cover plate and the outlet is pointing downwards.
- 5) Fit handle (1), taking care that it is pushed fully onto cartridge stem, then tighten grub screw (2) using the 2.5mm allen key (3). Screw handle lever (4) together with O'Ring (4A) into handle (1) and tighten firmly by hand, taking care not to damage decorative finish.
- 6) Turn on Hot and Cold water supplies and check operation.

Replacing Cartridge (Fig. 1)

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

IMPORTANT	
<u>Pressure & Temperature Requirements.</u>	
<ul style="list-style-type: none"> • 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. 	
<u>Installation Requirements.</u>	
<ul style="list-style-type: none"> • 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) 	

Removing Aerator Insert (Fig.4)

- 1) Aerator insert (15) can be removed with the key (16) provided.
- 2) Deposits of lime can be removed by washing in a vinegar solution.
- 3) When replacing aerator insert (15), 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 key (16).

LIANO II- WALL BASIN/BATH MIXER ($\phi 65$ mm ROUND COVER PLATES - TRIM KIT) WATER EFFICIENT TAPWARE

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