



# VILLA - TOWER BASIN MIXER

## WATER EFFICIENT TAPWARE

### PLUMBERS INSTALLATION INSTRUCTIONS

#### Important Information

- \* **Not suitable for gravity feed systems.**
- \* **Mixer is fitted with a flow regulated aerator insert.**  
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.**
- \* **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.**  
**Note: Aerator insert housing must be retightened to prevent removal by hand.**

#### Installation

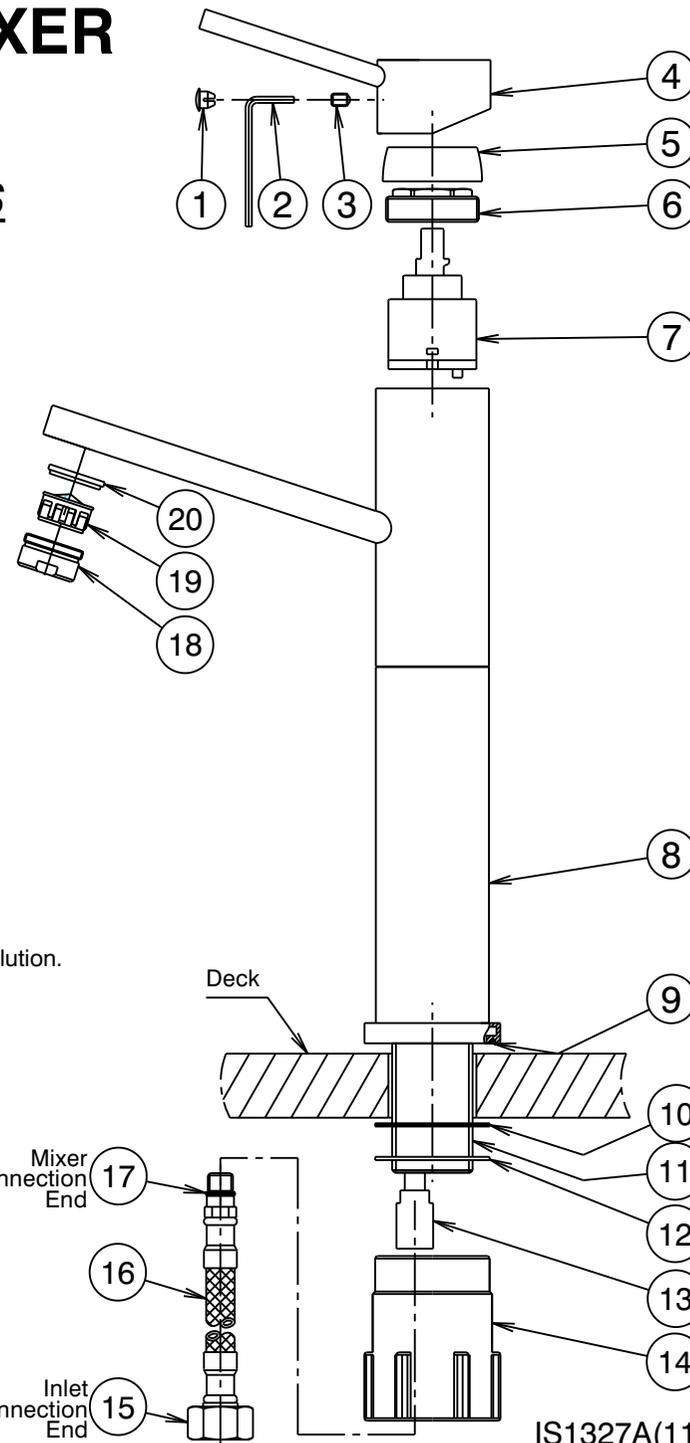
- 1) From fixing pack fit 'O'ring (9) into groove of mixer body (8)  
Screw threaded tube (11) into underside of mixer body (8).
- 2) **Flexible Tail Mixer Connections:** Apply suitable lubricant to 'O'rings (17). Fit flexible tail (16) (with red indication) into tail (13) marked with a red dot in underside of mixer body (8). Hand tighten the tail, ensuring the 'O'ring (17) has fully entered the sealing bore to provide a watertight joint. Fit other flexible tail (with blue indication) into remaining tail in a similar manner.
- 3) Insert the inlet connection end (15) of each flexible tail (16) through the hole in the deck. Place mixer over deck hole, fit gasket (10) and plastic washer (12) over threaded tube (11) then screw on fixing nut (14). Position the mixer (8) as required then tighten fixing nut (14). **DO NOT OVERTIGHTEN**
- 4) **Flexible Tail Inlet Connections:** Connect the flexible tails (16) to the hot and cold isolating stop taps, hand tighten the connecting nut (15) 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.

#### Replacing Cartridge

- 1) Turn off hot and cold water supplies.
- 2) Carefully remove plug (1) before using a 2.5mm allen key (2) to loosen grub screw (3) and remove handle (4). Remove cap (5) taking care not to damage the decorative finish. Unscrew nut (6) then lift out old cartridge (7).
- 3) 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).
- 4) Screw on nut (6). **Important:** Nut (6) should be tightened to a torque of 10 Nm.
- 5) Replace cap (5), tightening by hand. Fit handle (4) taking care that it is pushed fully onto cartridge stem, then tighten grub screw (3). Replace plug (1) taking care not to damage the decorative finish.
- 6) Turn on water supplies and check operation.

#### Replacing Aerator Insert

- 1) Carefully remove aerator housing (18) from mixer body (8), taking care not to damage the decorative finish.
- 2) Remove seal (20) & aerator insert (19) from aerator housing (18). Check that aerator housing (18) is clean. Deposits of lime can be removed by washing in a vinegar solution.
- 3) Fit new aerator insert (19) into aerator housing (18) followed by seal (20) then screw assembly into mixer body (8) and tighten securely (to prevent removal by hand).



#### **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 : 70°C.  
(In accordance with AS 3499)

##### **Deck Requirements**

- Deck thickness : 35mm maximum
- Tap body hole (in deck) : Ø34-36mm