

RENO KIT INSTRUCTIONS PLEASE READ THROUGH ALL PAGES BEFORE YOU START.

THIS IS TO CONVERT A TWO TAP MANUAL SHOWER SYSTEM ONLY. IT WILL NOT REPLACE A SINGLE LEVER MIXER VALVE.

- PAGE 1. LIST AND DIAGRAM OF ALL RENO KIT PARTS.
- PAGE 2. THE PARTS YOU WILL NEED DEPENDING ON YOUR CURRENT INSTALLATION.
- PAGE 3. INSTALLING RENO KIT IF ONLY USING BOX A PARTS.
- PAGE 4. INSTALLING RENO KIT IF ALSO USING BOX B PARTS.
- PAGE 5. FIXING CT100 THERMOSTATIC MIXING VALVE
- PAGE 6. FITTING THE HANGING NUT. THIS IS A COMPULSARY PART OF THE RENO KIT.
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2 YEAR WARRANTY ON ALL PARTS AGAINST DEFECTS IN PERFORMANCE

TO BE FITTED BY A QUALIFIED PLUMBER

INSTALLATION IS SUBJECT TO THE REQUIREMENTS OF THE APPLICABLE REGULATORY AUTHORITY, THE NATIONAL CONSTRUCTION CODE VOLUME THREE- PLUMBING CODE OF AUSTRALIA.

AUSTRALIAN STANDARD AS4032.4: 2014 WATERMARK LICENCE WMK26224

NOT TO BE FITTED WHERE FREEZING MAY OCCURE RECOMMENDED INLET PRESSURE BETWEEN 100 AND 500kPa

If inlet pressure exceeds 500kpa, install a pressure reducing valve soon after the incoming mains supply.

INLET COLD WATER TEMPERATURE BETWEEN 8 and 29 $^{\circ}\text{C}$ to obtain set mixed water temperature.

INLET HOT WATER TEMPERATURE BETWEEN 55 and 85°C to obtain set mixed water temperature.

If inlet temperature exceeds 85°C, check hot water system thermostat.

CAN BE FITTED WITH A COMBINATION BOILER, MAINS PRESSURE UNVENTED OR INSTANTANEOUS
HOT WATER SYSTEMS WITH BALLANCED PRESSURES

MIXED OUTLET WATER TEMPERATURE RANGE BETWEEN 20 AND 45°C at recommended inlet temperatures

SAFETY STOP SET FEATURE @38°C with internal safety thermal shut-off DO NOT USE ABRASIVE CLEANING PRODUCTS

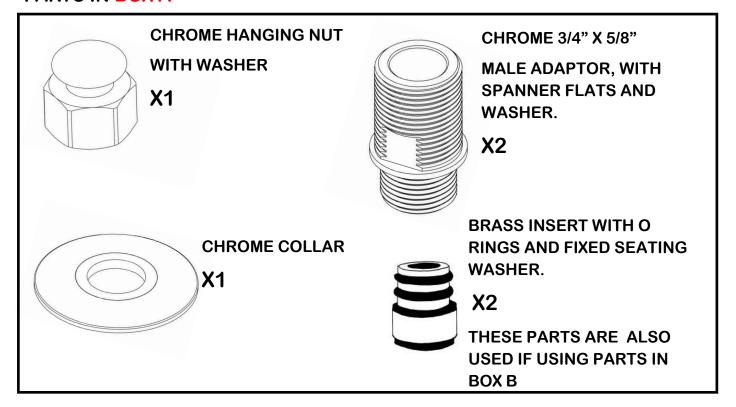
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THERM-OZ RENO KIT PARTS

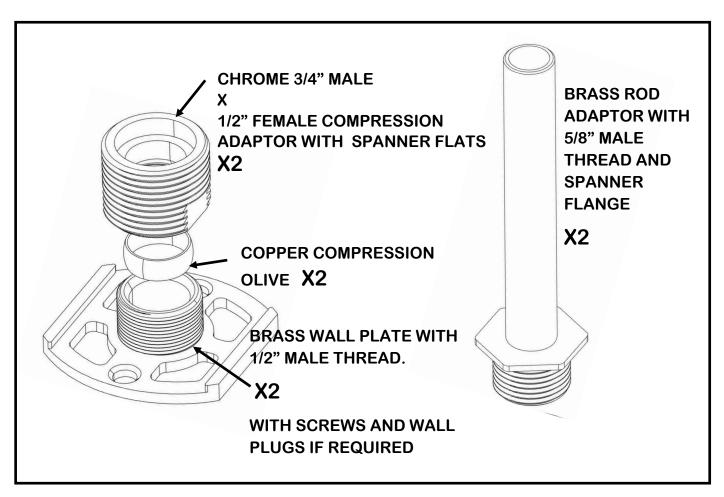
THERE ARE TWO BOXES OF FITTINGS FOR THE RENO KIT, AS LISTED BELOW.

SOME PARTS YOU WILL USE, AND SOME PARTS YOU WILL NOT. THE NEXT
PAGE WILL HELP YOU CHOSE THE PARTS YOU NEED.

PARTS IN BOX A



PARTS IN BOX B



THERM-OZ RENO KIT WHAT PARTS TO USE

TO FIND OUT WHICH PARTS OF THE RENO KIT YOU NEED, SEE THE
TWO TYPES OF SCENARIOS THAT YOU MIGHT HAVE IN YOUR SHOWER

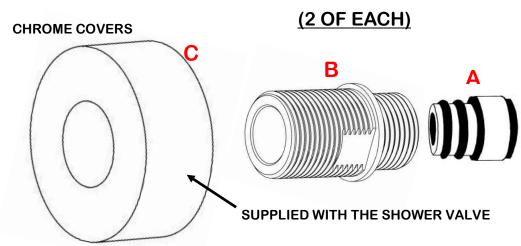
TWO TYPES OF SCENARIOS THAT YOU MIGHT HAVE IN YOUR SHOWER. YOUR OLD SHOWER VALVES **CROSS SECTION OF WALL** WILL BE SCREWED INTO A **BRASS BREECH THAT IS SET** IN THE WALL. IF THE BREECH FIG 1 IS PRETTY MUCH FLUSH WITH THE TILES, LIKE FIG 1, YOU WILL NEED TO USE BOX A REMOVE YOUR OLD VALVE **SET BACK A MAXIMUM OF** 5mm. ANY MORE THAN 5mm, BRASS BREECH **SEE BELOW** IF THE BREECH IN THE WALL **CROSS SECTION OF WALL** IS SET BACK MORE THAN 5mm UP TO 75mm, FIG 2 THEN USE ADDITIONAL PARTS IN BOX B MIN 6mm **SET BACK** REMOVE YOUR OLD VALVE MAX 75mm THESE PARTS CAN ALSO BE USED IF YOU ARE TILING ON TOP OF YOUR **EXISTING TILES. BRASS BREECH** DISGUARD PARTS NOT USED, OR **KEEP AS SPARES** TURN OFF WATER SUPPLY AND REMOVE OLD VALVES AND SHOWER HEAD, ENSURING ALL **WATER IS DRAINED FROM THE** BREECH.

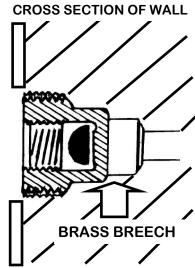
NOTE. YOU ONLY NEED TO USE THE PARTS IN BOX B IF THE EXICTING BREECH IN THE
WALL IS SET BACK MORE THAN 5mm

THERM-OZ RENO KIT

BOX A (IF BREECH IS FLUSH WITH TILES)

PARTS IN ORDER OF FITTING





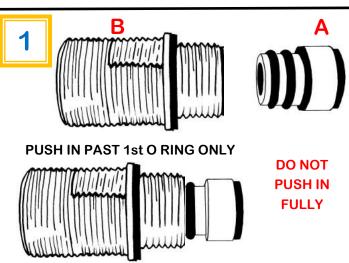
A = BRASS INSERT WITH WASHERS AND O RINGS

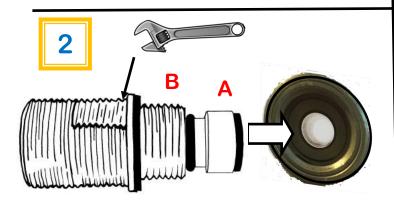
B = CHROME ON BRASS THREADED ADAPTOR

C = CHROME COVER SHROUD SUPPLIED WITH THE SHOWER VALVE.

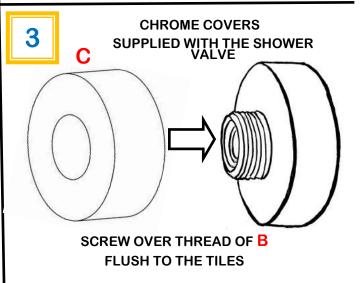
FITTING PROCEDURE

- 1. INSERT PART A INTO BASE OF PART B
- 2. SCREW THIS INTO BREECH IN WALL
- 3. SCREW ON PART C CHROME COVERS





ENSURE BREECH IN THE WALL IS CLEAR OF ANY OBSTRUCTION.
USE SPANNER TO TIGHTEN

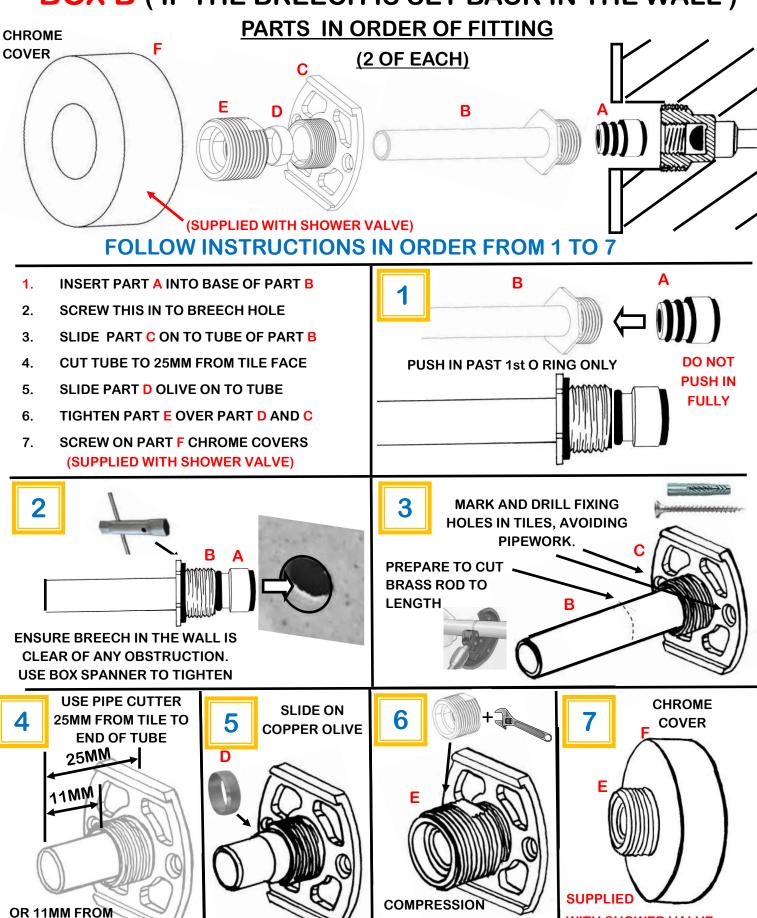


PATENT FILE APP 2016900927 REGISTERED DESIGN 201611383

NOW READY FOR THE SHOWER VALVE TO BE FITTED TO THE EXPOSED MALE THREADS USING WASHERS PROVIDED

THERM-OZ RENO KIT

BOX B (IF THE BREECH IS SET BACK IN THE WALL)



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END OF THREAD

JOINT

WITH SHOWER VALVE

NOW READY TO CONNECT THE SHOWER VALVE TO THE MALE THREADS

USING WASHERS PROVIDED

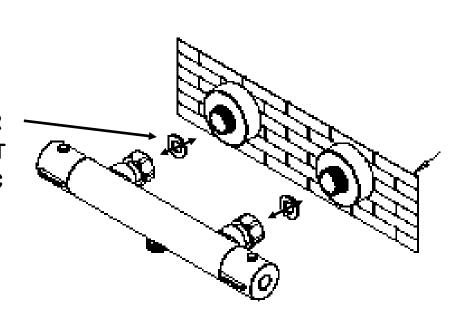
FIXING THE CT100 THERMOSTATIC MIXING VALVE

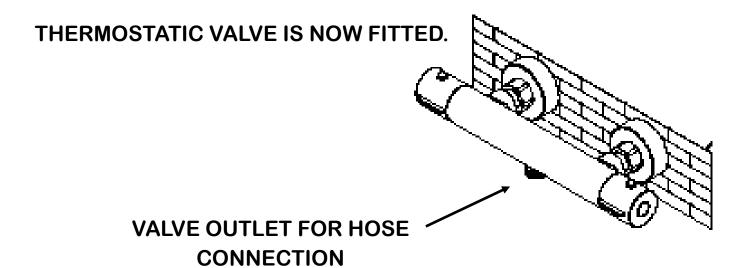
YOUR OLD VALVES ARE NOW REMOVED. GENTLY FLUSH PIPES THROUGH TO CLEAR OF ANY DEBRIS.

USING AN APPROPRIATE SPANNER, CONNECT THE THERMOSTATIC VALVE TO THE EXPOSED MALE THREADS.

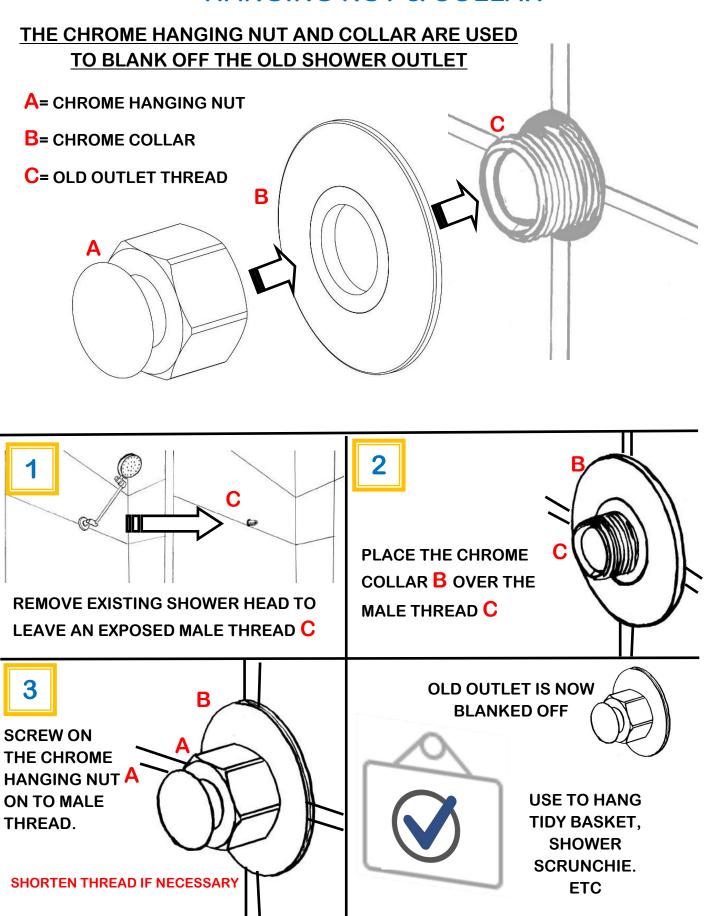
DO NOT OVER TIGHTEN.

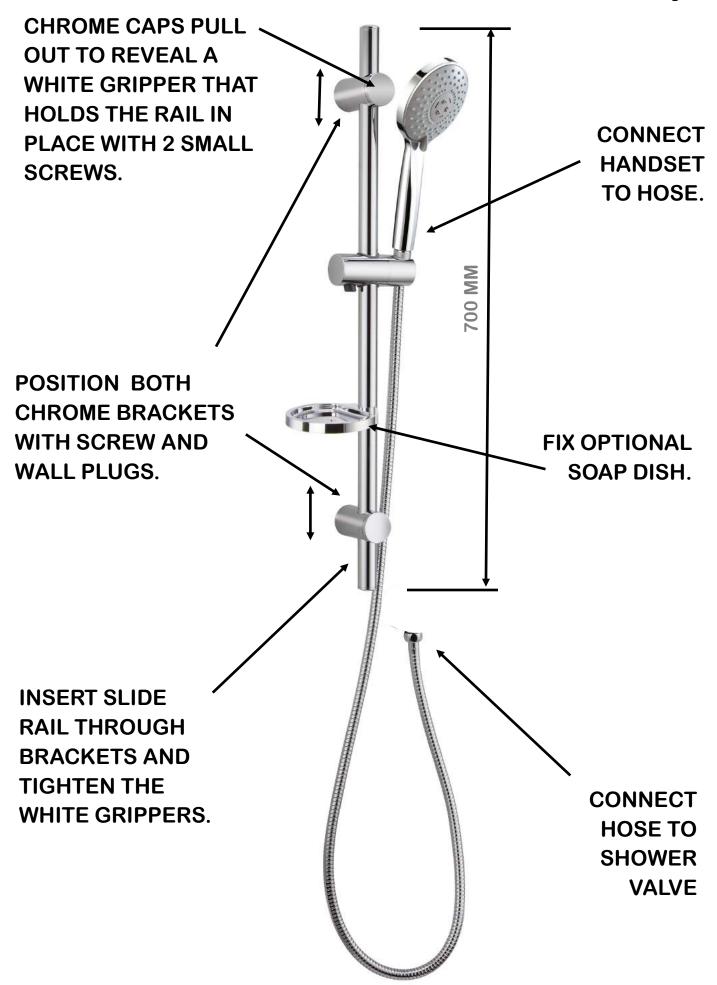
USING THE RUBBER
WASHERS CONNECT
THE THERMOSTATIC
VALVE ON TO THE
MALE THREADS





THERM-OZ RENO KIT HANGING NUT & COLLAR





BEWARE OF ANY PIPEWORK THAT MAY BE IN THE WALL

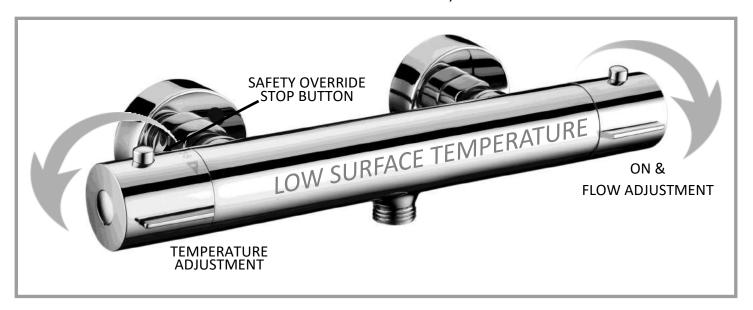
USER INSTRUCTIONS

TO START THE SHOWER, ROTATE THE RIGHT HANDLE.

A FULL QUARTER TURN, IS FULL FLOW.

ROTATE IN THE OPPOSITE DIRECTION TO DECREASE OR STOP FLOW

THE BUTTON ON THIS HANDLE IS NOT FUNCTIONAL, AND IS FOR AESTHETICS ONLY.



THE TEMPERATURE IS CONTROLLED BY ROTATING THE LEFT HANDLE.

FOR SAFETY REASONS, THE MIXED TEMPERATURE IS LIMITED TO 38°C BY THE SAFETY OVERRIDE STOP BUTTON.

TO OBTAIN A HIGHER MIXED WATER TEMPERATURE, PRESS THE OVERRIDE BUTTON AND ROTATE HANDLE.

FOR A COOLER SHOWER THAN 38°C, ROTATE HANDLE IN THE OPPOSITE DIRECTION. THE SAFETY BUTTON WILL AUTOMATICALLY RE-SET.

THE SURFACE TEMPERATURE OF THIS VALVE IS SAFE TO TOUCH OR HOLD WHILST SHOWERING AND WILL GET NO HOTTER THAN 20°C WHEN AT 38°C SETTING.

THE VALVE HAS AN INTERNAL SAFETY THERMAL SHUT-OFF SEE PAGE 5 FOR DEAILS OF THIS FEATURE

TO HELP MAINTAIN THE APPEARANCE OF THE SHOWER VALVE, IT IS GOOD PRACTICE TO WIPE CLEAN AND DRY WITH A DRY SOFT CLOTH AFTER USE.

<u>TIP TO SAVE WATER</u>. TURN ON SHOWER, GET WET. TURN OFF SHOWER AND WASH WITHOUT WATER RUNNING. TURN SHOWER BACK ON TO RINSE OFF.

This is a safety feature for Thermostatic valves manufactured to Australian Standard AS4032.4-2014

Basic terms, should the Cold or Hot water supply suddenly fail, the mixing valve will shut off, preventing harm or thermal shock.

This valve CT100 complies with Clauses 4.4.2 and 4.4.3 of the above standard. Explanation as written in the standard AS4032.4 as follows;

Cold water isolation

When tested in accordance with Appendix D, the thermal shut-off under cold water isolation of each thermostatic tap, when pre-adjusted to supply mixed water at temperatures of 38+/-2°C, 45+/-2°C and the manufacturer's nominated maximum setting, shall not exceed the temperature rises and durations given in Table 4.1 during both the period of shut-off of the cold water supply and immediately following the restoration of the cold water supply.

The mixed water shall stabilize to within 2°C of the preset temperature, in not more than 20.0 seconds following restoration of the cold water supply.

Heated water isolation

When tested in accordance with Appendix D, the thermal shut-off under heated water isolation of each thermostatic tap, when pre-adjusted to supply mixed water at temperatures of 38+/-2°C, 45+/-2C and the manufacturer's nominated maximum setting, shall not exceed the temperature rises and durations given in Table 4.1. of the standard AS4032.4

The amount of water discharged following thermal shut-off under heated water isolation of each thermostatic tap shall not exceed 0.75 L within 5–35 seconds following heated water supply isolation.

The mixed water shall stabilize to within 2°C of the preset temperature, in not more than 20.0 seconds following restoration of the heated water supply.

Dynamic pressure ration, after Hot water isolation endurance test

	Operating Temp °C		Dynamic Pressures kPa	
	Nominated Cold water Supply 15+5°C	Nominated Hot water Supply 65+2°C	Nominated Cold water Supply 300+10 kPa	Nominated Hot water Supply 300+10 kPa
Temp Set	Actual	Actual	Actual	Actual
38+1°C	16.2	63.7	303	301
45+1°C	18.5	63.2	302	298

<u>Dynamic pressure ration</u>, after Cold water isolation endurance test

	Operating Temp °C		Dynamic Pressures kPa	
	Nominated Cold water Supply 15+5°C	Nominated Hot water Supply 65+2°C	Nominated Cold water Supply 300+10 kPa	Nominated Hot water Supply 300+10 kPa
Temp Set	Actual	Actual	Actual	Actual
38+1°C	17.3	64.9	302	298
45+1°C	17.2	65.0	300	301

CARE INSTRUCTIONS

WHEN CLEANING CHROME PRODUCTS, USE ONLY A MILD DETERGENT, RINSE AND WIPE DRY WITH A SOFT CLOTH. IDEALLY CLEAN AFTER EACH USE TO MAINTAIN APPEARANCE.

NEVER USE ABRASIVE, SCOURING POWDERS OR SCRAPERS.

NEVER USE CLEANING AGENTS CONTAINING ALCOHOL, HYDROCHLORIC ACID, SULPURIC ACID, NITRIC ACID, PHOSPHORIC ACID OR ORGANIC SOLVENTS.

USE OF INCORRECT CLEANING PRODUCTS/ METHODS MAY RESULT IN CHROME DAMAGE WHICH IS NOT COVERED BY THE MANUFACTURERS GUARANTEE.

TROUBLE SHOOTING

POOR FLOW OF WATER

- CHECK FOR ADEQUATE WATER PRESSURE
- CHECK FOR DEBRIS IN THE WATER INLETS
- CHECK FOR LIME SCALE BUILD UP. REMOVE THE MIXER / THERMOSTAT CONTROL AND DESCALE IF NEEDED (IN HARD WATER AREAS THIS MAY BE REQUIRED MORE OFTEN)

POOR TEMPERATURE CONTROL

TOO MUCH HOT OR COLD WATER

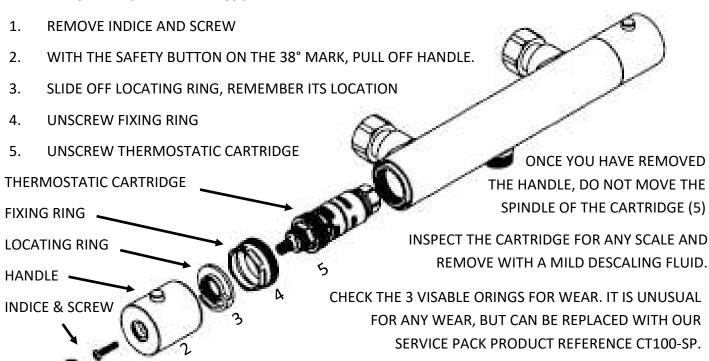
- CHECK WATER SUPPLY IS PROPERLY BALLANCED
- CHECK FOR LIME SCALE BUILD UP. REMOVE THE MIXER / THERMOSTAT CONTROL AND DESCALE IF NEEDED (IN HARD WATER AREAS THIS MAY BE REQUIRED MORE OFTEN)
- CHECK WATER SUPPLY FOR BLOCKAGES, CLEAN FILTERS, CHECK THAT INLETS ARE INSTALLED CORRECT I.E. HOT ON LEFT COLD ON RIGHT.

ONLY HOT OR COLD WATER FROM MIXER OUTLET

- CHECK WATER SUPPLY FOR BLOCKAGES, CLEAN FILTERS, CHECK THAT INLETS ARE INSTALLED CORRECT I.E. HOT ON LEFT COLD ON RIGHT.
- REMOVE THERMOSTATIC CARTRIDGE AND CHECK CONDITION I.E. SCALE OR DEBRIS. CLEAN FILTERS.

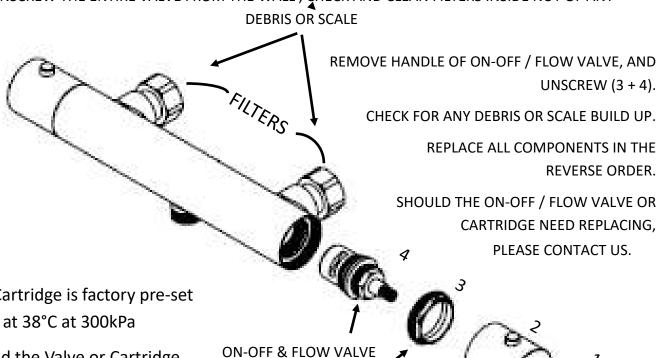
MAITENANCE CT100

THE AUSTRALIAN STANDARDS RECOMENDS A REGULAR 12 MONTH SERVICE TO BE PERFORMED BY A QUALIFIED PLUMBER. ISOLATE BOTH HOT AND COLD WATER SUPPLY AND TURN ON THE RIGHT FLOW HANDLE TO RELEASE WATER PRESSURE.



UNSCREW THE ENTIRE VALVE FROM THE WALL , CHECK AND CLEAN FILTERS INSIDE NUT OF ANY **DEBRIS OR SCALE**

REPLACE ALL COMPONENTS IN THE EXACT REVERSE ORDER



LOCATING RING

HANDLE

INDICE & SCREW

Note: Cartridge is factory pre-set

Should the Valve or Cartridge malfunction, please contact us.

Within the 2 year warrantee, replacement parts, if faulty will be sent free of charge.

SILICONE LUBRICANTS MUST ONLY **BE USED ON RUBBER SEALS**

I.E. KLUBER LCA3801

COMMISSIONING

PLEASE NOTE. THE THERMOSTATIC CARTRIDGE HAS BEEN CALIBRATED AT THE FACTORY AND SET AT 38°C AT 300 kPa. IF FOR WHAT EVER REASON THIS NEEDS TO BE RE-SET, PLEASE FOLLOW THESE INSTRUCTIONS.

YOU WILL NEED A THERMOMETER



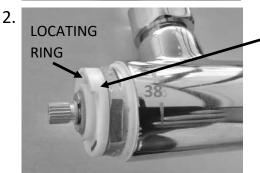
Remove the shower hose from the bottom outlet of the thermostatic valve.

With the Left handle positioned on the 38°C mark, turn the right handle to start flow and place thermometer into the running water.

If the temperature is less or more than 38°C turn off the flow then do as follows:

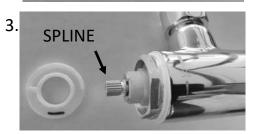
Remove Right handle, to expose Locating Ring (fig 1)





Note how the ridge of the locating ring is in line with the number 38. (fig 2)

Pull the locating ring off, but remember it will need to be replaced later, in the same position, with the ridge in line with the number 38.



Turn on the right handle to start the flow, and place the thermometer into the running water.

To obtain 38°C gradually rotate the spline in the direction it needs to be, to increase or decrease the temperature with your fingers (fig 4)



Once you have a delivered temperature of 38°C, turn off the flow and replace the locating ring as per fig 2.

Replace handle with the safety over ride button in line with the number 38. Replace shower hose to the outlet.

THE THERMOSTATIC MIXING VALVE IS NOW FULLY COMMISSIONED AND CALIBRATED TO 38°C.

PLEASE CONTACT US IF YOU HAVE ANY PROBLEMS