

# **CARTRIDGE EXTRACTOR - ref. TB120014**

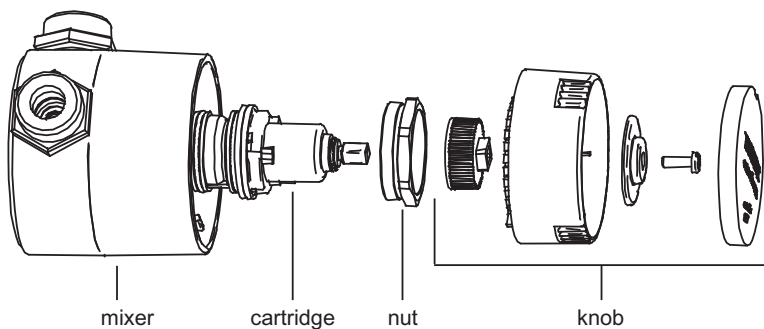
**Tool for extracting TCP7 & TCP6 cartridges  
from apparent mixers T9715, T9107, TL117, MINIMIXing  
and mixers for inseting T8175, T8137, T8147, TMCP2**



A Division of Watts Water Technologies Inc.

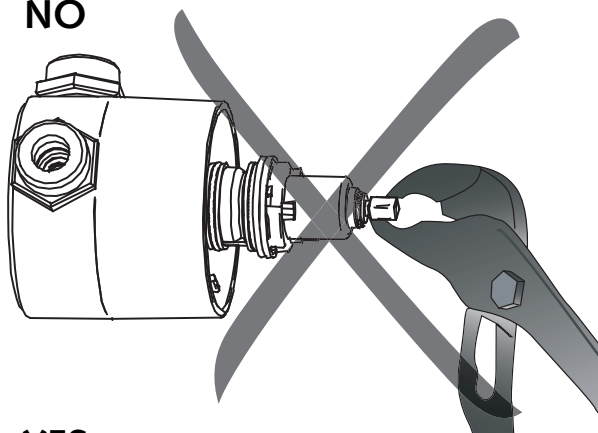
Using a screwdriver, remove the cover from the handle, undo the central screw and remove the handle.

Undo the nut holding the cartridge.

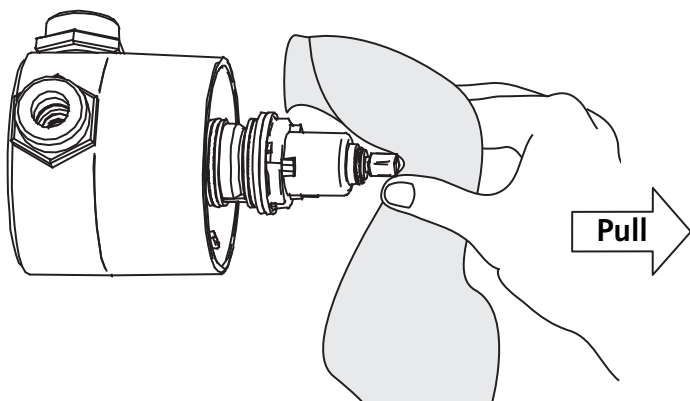


After several months use, it is sometimes difficult to remove a thermostat cartridge from its housing.

**NO**



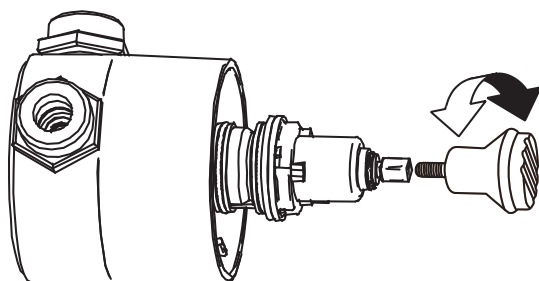
**YES**



## How to proceed:

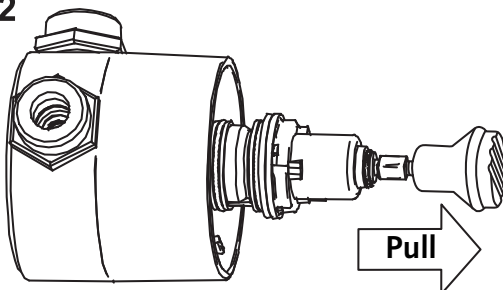
Screw the cartridge extractor into the threading of the cartridge centre for this purpose.

1



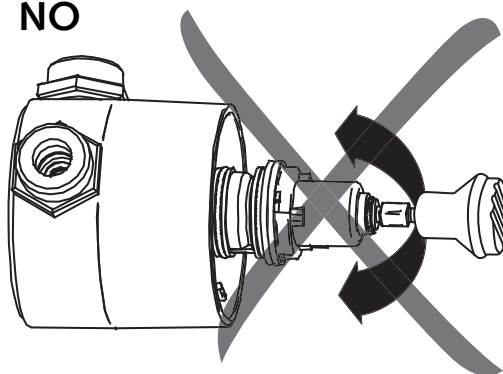
Pull everything towards yourself to extract the removable cartridge from its housing.

2



Do not move it sideways, but pull it firmly in the same direction.

**NO**



Warning: recalibrate the mixer properly (onsite adjustment in the conditions of the installation) once the cartridge is cleaned and de-scaled – (see next page for calibration procedure).

# REPLACING THE THERMOSTAT MECHANISM

## 1 - Opening the appliance :

Close the cold and hot water taps and open the bib taps to bring the pressure inside the appliance down.

Undo the nut (Y) and remove the cartridge (Z).

## 2 - Installation :

Put in the new cartridge (Z) after having lubricated it with a silicone aerosol.

Make sure the mechanism is properly in the unit and screw on the nut (Y) – max. torque: 18 Nm.

## 3 - Fine-tuning the temperature :

Re-supply the appliance with water.

Calibrate the temperature:

- to increase, turn anticlockwise,
- to reduce, turn clockwise.

Run the water at the desired temperature by turning the cartridge shaft.

Using a thermometer, take the temperature thus obtained, or simply test the water temperature with your hand.

## 4 - Maintenance :

### 4-1 Checking the mechanism

If the flow rate reduces or if the temperature becomes unstable, check the condition of the mechanism. If necessary, clean and de-scale the mechanism with light and dilute acid. Brush the filters.

If that does not suffice, replace it (2).

### 4-2 Draining in the event of freezing

When the appliance has to be exposed to freezing, it must be drained by dismantling the mechanism.

Once the installation is drained, put it back in place after having lubricated it with the silicone aerosol.

## 5 - Characteristics :

Supply: The mixer may be supplied by any hot water production system, even by instant domestic production, provided that the generator remains liable to produce very low flow rates of hot water (3 litres per minute).

- Maximum working pressure \_\_\_\_\_ 10 bar
- Minimum working pressure \_\_\_\_\_ 1 bar
- Recommended working pressure \_\_\_\_\_ 2 to 4 bar
- Maximum hot water temperature \_\_\_\_\_ 85°C
- Minimum inlet temperature difference \_\_\_\_\_ 10°C
- Maximum pressure difference between the hot water and cold water \_\_\_\_\_ 1,5 bar

## 6 - Troubleshooting :

Carefully check whether the fault is caused by the appliance.

Faults found	Causes and solutions
⊗ The water is not running at the right temperature.	⊗ Check that there is water at the inlets.
⊗ The water is running, but not sufficiently.	⊗ Hot water or cold water production is insufficient. ⊗ Blocked or fouled filter.
⊗ When using a new appliance for the first time, only hot or cold water is running.	⊗ The water inlets are inversed.
⊗ The mixed water runs by jerks, and the flow rate is low except at extreme temperatures.	⊗ Either the hot or cold water is not running sufficiently. ⊗ Check that the cartridge filters are clean.

