

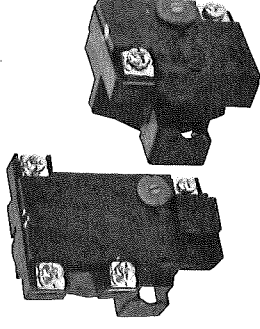


INSTALLATION DATA

ST SERIES ELECTRIC

WATER HEATER THERMOSTATS

The Robertshaw® ST Series Electric Water Heating Thermostats have replaced the EWT1, EWT1L2, EWT2L2, EWT1L2S, W1, W1M2, W2M2, SH and SA Series Thermostats. The models of controls available in the Aftermarket have been planned such similar Robertshaw specifications are interchangeable. Additionally, where Off-Peak dual element controlled water heater thermostats required replacement, the ST can be mixed with EWT and WM series.



WARNING!

You must fit the correct model thermostat. Refer to the guide below for correct model replacement

Cross Reference Guide

Model	Replaces	Comments
ST10	Robertshaw – W1 & EWT1 Series	Thermostat Cycling only. No OTC included.
ST12	Robertshaw – W1M2 & EWT1L2 Series	Thermostat Cycling & Manual Reset OTC. Used for mains pressure electric water heaters.
ST22	Robertshaw – W2M2 & EWT2L2 Series	Thermostat Cycling & Manual Reset OTC. Used for mains pressure electric water heaters.
ST13	Robertshaw – EWT1L2S, SH & SA Series: - Edward Energy – EWT1L2S-202 & SH202 - Solahart – EWT1L2S-203 & SA203 (may require adaptor kit. Available only from Solahart.) - Beasley – EWT1L2S-205 & SA203	Thermostat Cycling & One Shot OTC (no reset). Used on electric boosted solar water heaters.

Note: OTC = Over Temperature Cut-Out

EWT Model Versus ST Model Terminal Locations

Model	Corresponding Terminal Locations						
EWT1L2/2L2	1L	2T	3L	4L	4T	2L/1T	
ST12/22	1	2	3	4	5	No Connection	
EWT1	1T	2T					
ST10	1	2					
EWT1L2S	1L	2T	3L	4L			
ST13	1	2	3	4			

Temperature Setting

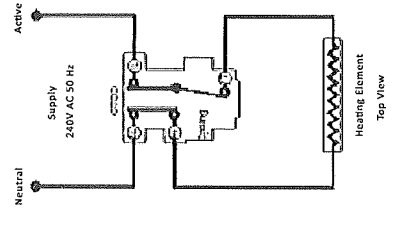
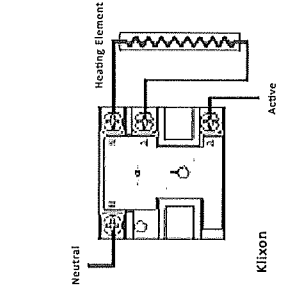
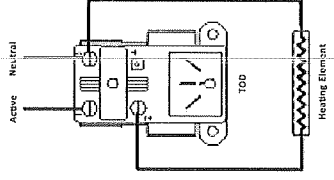
At all times refer to the requirements of the Department of Health Authorities in your State with regards to their requirements for minimum and maximum temperature settings for storage water heaters. Set the pointer on the replacement thermostat to the same setting as the original thermostat being replaced. If in doubt, do not set above 60°C.

WARNING!

WATER AT OR ABOVE 60°C CAN CAUSE A DEEP SCALD TO A CHILD IN 1 (ONE) SECOND.

WIRING DIAGRAMS

From Other Brand to Robertshaw ST12 Thermostat Model



WARNING!

1. All wiring of the thermostat must conform to AS3100 and is to be installed by qualified electrician or service technician.
2. Electrically isolate thermostat from main supply before disconnecting. Failure to do so can result electric shock.

WARNING!

It is recommended that nickel plated lugs be used. Ensure screws are tightened securely before reconnecting to main supply.

WIRING DIAGRAMS
ST10, ST12, ST22 Thermostat

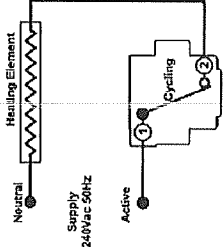


Figure 1 ST10

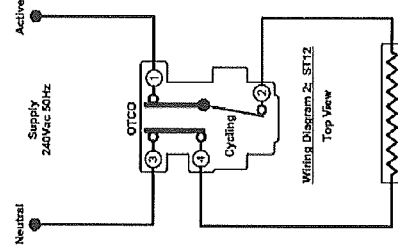


Figure 2 ST12

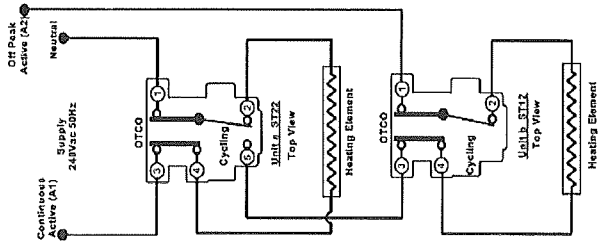


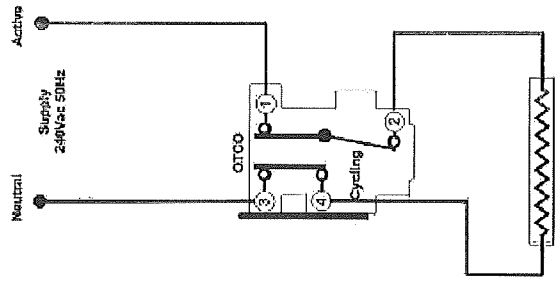
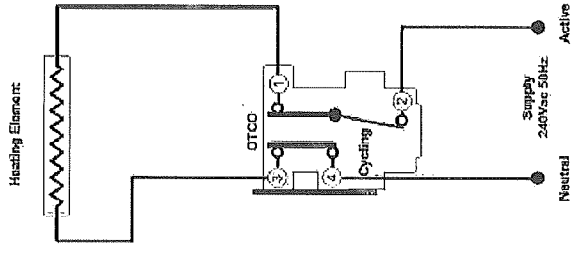
Figure 3

Non-Simultaneous 2 Element, Off Peak

NOTE: ST22 To be connected in this configuration only, and its set temperature shall be lower than ST12.

Wiring Diagrams

ST13 Solar Booster Thermostat For Solahart And Rheem Models



Wiring Diagram for Solahart Models

Wiring Diagram for Rheem Solar Models

Please Note:

- A terminal guard is placed against terminals 3 and 4.
- Terminals 3 and 4 are raised above the thermostat body to allow for correct wiring.
- Ensure the incoming directions of the wires are as shown above.

Disclaimer: Whilst every effort has been made to ensure that the information herein is correct, Robertshaw accepts no liability of any kind in respect to the contents of this publication. Due to continual development, products and specifications are continually reviewed and may change without prior notice.