

Introducing Invensys / Robertshaw's New range of water heating thermostats "ST" Hot Water Thermostats

This new design thermostat (Black Body) will be introduced to replace the discontinued range of "EWT" Thermostats (Grey Body). These ST type thermostats are more compact in size, responds quicker to temperature changes and still fits existing mounting clamps.

**** Important Note **** When fitting the new ST (black body) thermostats from the discontinued EWT (grey body) units, some changes to the wiring will be needed. The new ST thermostats do NOT have identical wiring to the EWT series. Refer to the new wiring diagrams below, also new diagrams will be in all packaging and available on request.



ST1201

50°-70°C (Drk Green Dial)



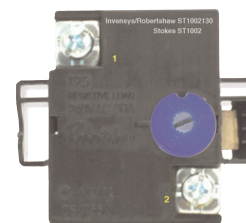
ST1205

60°-80°C (Pink Dial)



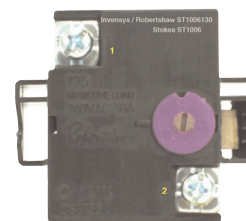
ST2201

50°-70°C (Drk Green Dial)



ST1002

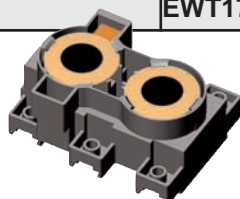
50°-80°C (Drk Blue Dial)



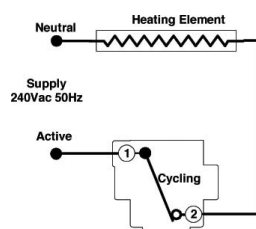
ST1006

60°-90°C (Purple Dial)

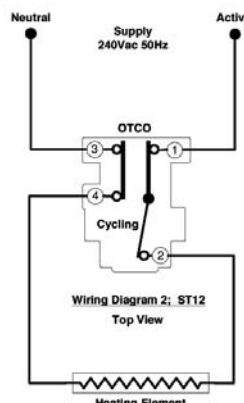
Stokes No	Replaces	Dial Color	Temp Range
ST1201	ST1201113, W1M2/70	DK GREEN	Adj 50°-70°C Diff 4-12
	EWT1L2-5085, W1M2503	#####	
	W1M25085, W1M25034	#####	
ST1205	EWT1L2-501, W1M2/80	PINK	Adj 60°-80°C Diff 4-12
	ST1205113, W1M25018	#####	
	W1M25069, W1M2513	#####	
	W1M2501		
ST2201	EWT1L2-601, W2M2	DK GREEN	Adj 50°-70°C Diff 4-12
	WM2601, WM26010	#####	
ST1002	EWT1-701KS, W1	DK BLUE	Adj 50°-80°C Diff 4-12
	EWT1, EWT1701	#####	
ST1006	EWT1-703KS, W1/93	PURPLE	Adj 60°-90°C Diff 4-12
	EWT1703, W1703A	#####	



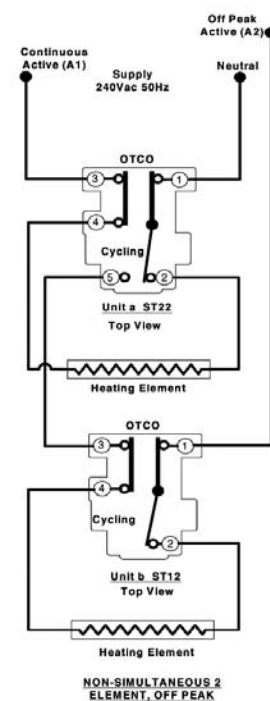
Picture showing reverse side of the new ST thermostat and Bi-Metal disks



Wiring Diagram 1: ST10
Top View



Wiring Diagram 2: ST12
Top View



NON-SIMULTANEOUS 2
ELEMENT, OFF PEAK

Note ST22 to be connected in this configuration only and it's set temp shall be lower than ST12

WARNING:
 1. ALL WIRING OF THE THERMOSTAT SHALL CONFORM TO AS3100 & IS TO BE INSTALLED BY A LICENSED ELECTRICIAN.
 2. ELECTRICALLY ISOLATE THERMOSTAT FROM MAINS SUPPLY BEFORE DISCONNECTING. FAILURE TO DO SO CAN RESULT IN AN ELECTRIC SHOCK

ST Series Water Heating 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 that similar Robertshaw specifications are interchangeable. Additionally, where Off-Peak dual element controlled water heater thermostats require replacement, the ST can be mixed with EWT & WM Series.

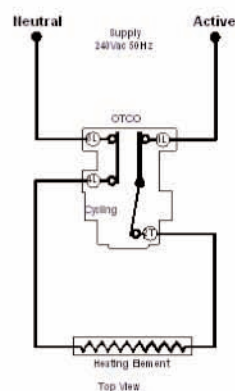
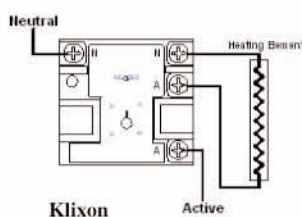
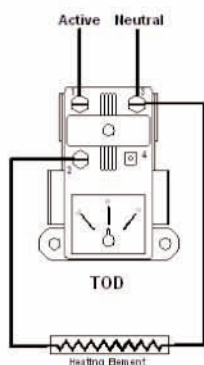
IMPORTANT! You must fit the correct model thermostat. Refer to the guide below for the correct model replacement.

Cross-Reference Guide

Model	Replaces	Comments
ST10	Robertshaw-W1 & EWT1 Series	Thermostat only. No OTC Included
ST12	Robertshaw W1M2 & EWT1L2 Series	Thermostat & Manual Reset OTC. Used for mains pressure electric water heaters
ST22	Robertshaw W2M2 & EWT2L2 Series	Thermostat & Manual Reset OTC. Used for top element of dual element mains pressure electric water heaters

Note: OTC = Over Temperature Cut-Out

Model	Corresponding Terminal Locations					
EWT 1L2/2L2	1L	2T	3L	4L	4T	2L/1T
ST 12/22	1	2	3	4	5	No Connection
EWT1	1T	2T				
ST10	1	2				



Wiring Diagram : ST12

At all times refer to the requirements of the Dept of Health authorities in your State with regard 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.

WARNING:

1. ALL WIRING OF THE THERMOSTAT SHALL CONFORM TO AS3100 & IS TO BE INSTALLED BY A LICENSED ELECTRICIAN.
2. ELECTRICALLY ISOLATE THERMOSTAT FROM MAINS SUPPLY BEFORE DISCONNECTING. FAILURE TO DO SO CAN RESULT IN AN ELECTRIC SHOCK

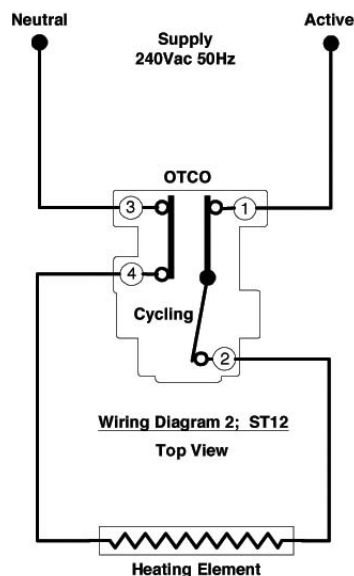
ST Series Water Heating Thermostats

Stokes Part No: **ST1201**

Surface Thermostat 50°C - 70°C



Dark Green Dial



ST1201

Replaces:

W1M2/70

EWT1L2-513

EWT1L2-513N

EWT1L2-513L

EWT1L2-540

EWT1L2-523

Stamped

ST1201133

Differential 4°-12°C



Old EWT series (Grey Body)

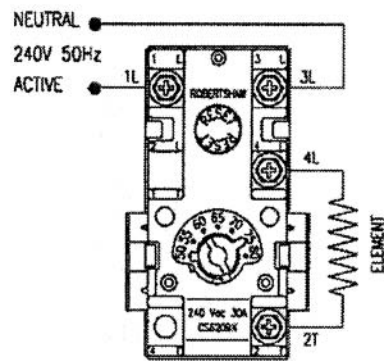


Fig.2 EWT1L2

Old EWT Wiring Diagram

WARNING:

1. ALL WIRING OF THE THERMOSTAT SHALL CONFORM TO AS3100 & IS TO BE INSTALLED BY A LICENSED ELECTRICIAN.
2. ELECTRICALLY ISOLATE THERMOSTAT FROM MAINS SUPPLY BEFORE DISCONNECTING. FAILURE TO DO SO CAN RESULT IN AN ELECTRIC SHOCK

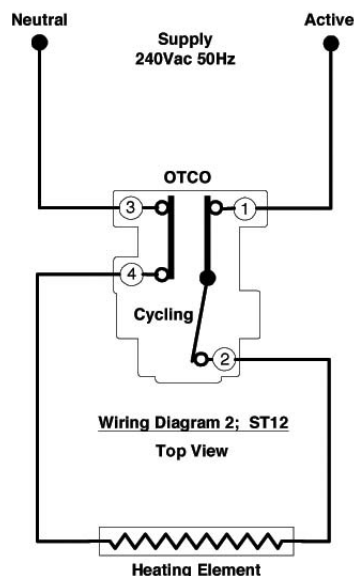
ST Series Water Heating Thermostats

Stokes Part No: **ST1205**

Surface Thermostat 60°C - 80°C



Pink Dial



ST1205

Replaces:

W1M2/80

EWT1L2-80KS

EWT1L2-501

EWT1L2-501N

EWT1L2-5018

Stamped

ST1205113

Differential 4°-12°C



Old EWT series (Grey Body)

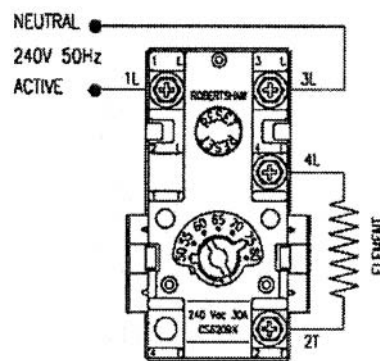


Fig.2 EWT1L2

Old EWT Wiring Diagram

WARNING:

1. ALL WIRING OF THE THERMOSTAT SHALL CONFORM TO AS3100 & IS TO BE INSTALLED BY A LICENSED ELECTRICIAN.
2. ELECTRICALLY ISOLATE THERMOSTAT FROM MAINS SUPPLY BEFORE DISCONNECTING. FAILURE TO DO SO CAN RESULT IN AN ELECTRIC SHOCK

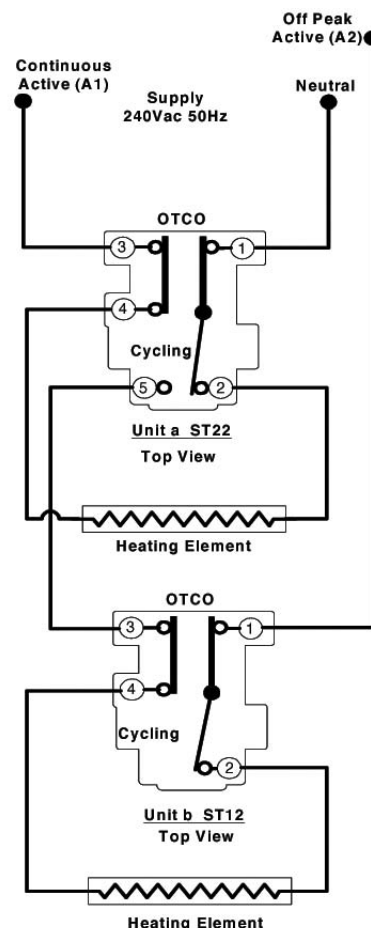
ST Series Water Heating Thermostats

Stokes Part No: **ST2201**

Surface Thermostat 50°C - 70°C



Dark Green Dial



NON-SIMULTANEOUS 2 ELEMENT, OFF PEAK

Note ST22 to be connected in this configuration only and it's set temp shall be lower than ST12

ST2201

Replaces:

W2M2

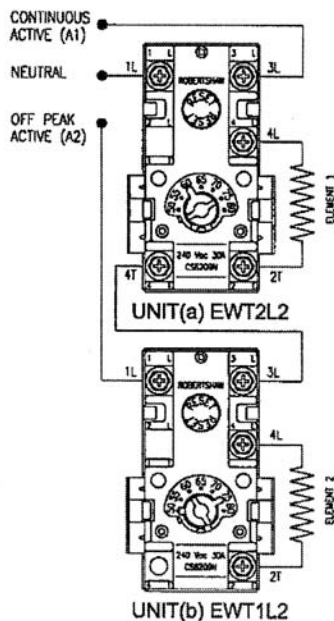
EWT2L2-80KS

EWT2L2-601

Stamped

ST2201133

Differential 4°-12°C



Old EWT Wiring Diagram



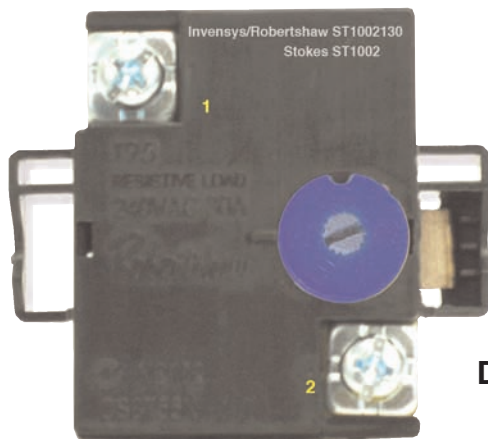
Old EWT series (Grey Body)

WARNING:

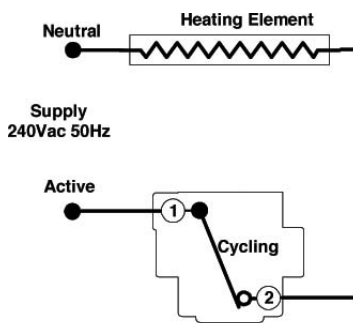
1. ALL WIRING OF THE THERMOSTAT SHALL CONFORM TO AS3100 & IS TO BE INSTALLED BY A LICENSED ELECTRICIAN.
2. ELECTRICALLY ISOLATE THERMOSTAT FROM MAINS SUPPLY BEFORE DISCONNECTING. FAILURE TO DO SO CAN RESULT IN AN ELECTRIC SHOCK

ST Series Water Heating Thermostats

Stokes Part No: **ST1002**
 Surface Thermostat 50°C - 80°C



Dark Blue Dial



Wiring Diagram 1: ST10
 Top View

ST1002

Replaces:

W1

EWT1-701KS

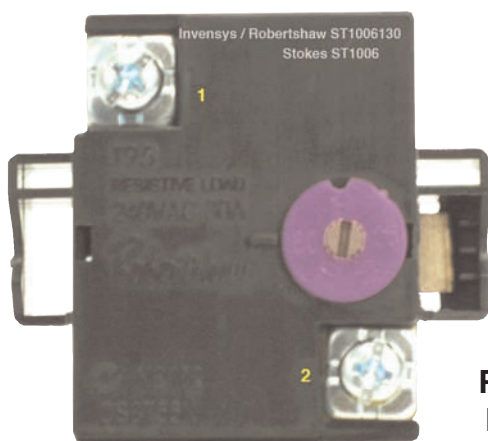
Stamped

ST1002130

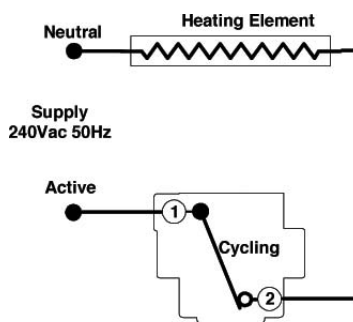
Differential 4°-12°C

ST Series Water Heating Thermostats

Stokes Part No: **ST1006**
 Surface Thermostat 60°C - 90°C



Purple Dial



Wiring Diagram 1: ST10
 Top View

ST1006

Replaces:

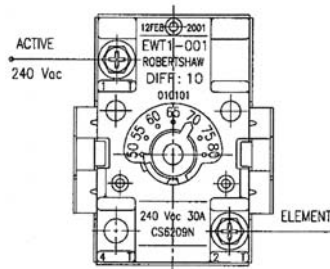
W1/93

EWT1-703KS

Stamped

ST100130

Differential 4°-12°C



Old EWT series
 Wiring Diagram



Old EWT series
 (Grey Body)

WARNING:

1. ALL WIRING OF THE THERMOSTAT SHALL CONFORM TO AS3100 & IS TO BE INSTALLED BY A LICENSED ELECTRICIAN.
2. ELECTRICALLY ISOLATE THERMOSTAT FROM MAINS SUPPLY BEFORE DISCONNECTING. FAILURE TO DO SO CAN RESULT IN AN ELECTRIC SHOCK

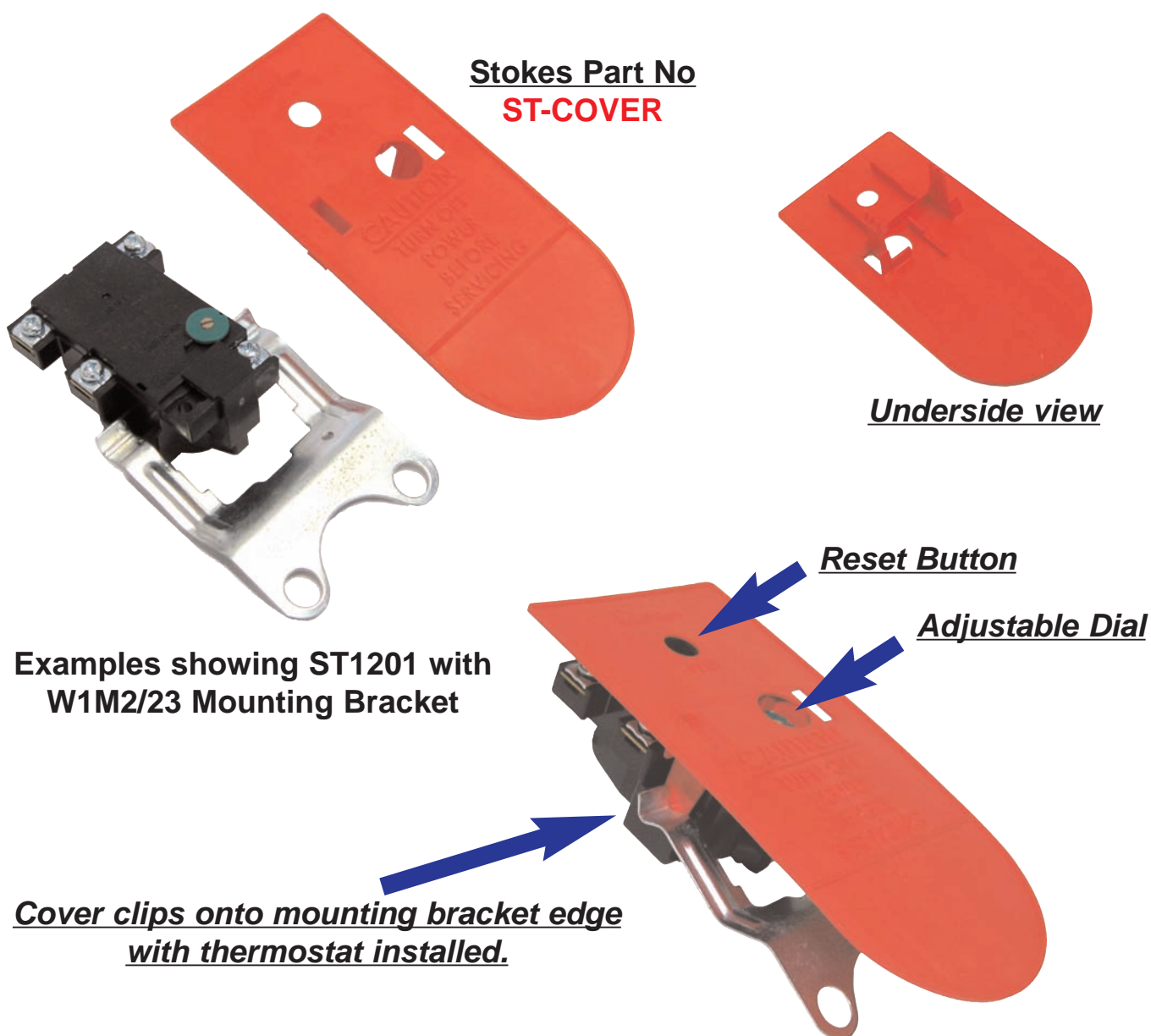
ST Series Water Heating Thermostats

Stokes Part No: **ST-COVER**

Protective Cover

suits ST type Thermostats

Clips onto inside edge of mounting bracket after Thermostat is installed.



WARNING:

1. ALL WIRING OF THE THERMOSTAT SHALL CONFORM TO AS3100 & IS TO BE INSTALLED BY A LICENSED ELECTRICIAN.
2. ELECTRICALLY ISOLATE THERMOSTAT FROM MAINS SUPPLY BEFORE DISCONNECTING. FAILURE TO DO SO CAN RESULT IN AN ELECTRIC SHOCK