



Rheem Australia Pty Ltd

A.B.N 21 098 823 511

TECHNICAL BULLETIN – TB09 003

Distribution: General
Priority: Normal

Issue Date
14/04/2009

Revision
A

Applicable to:	Rheem	Vulcan	Raypak	Solahart	Paloma	Edwards
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Subject: New Robertshaw ST Thermostat for Solahart Thermosiphon Product

The Robertshaw EWT1L2S-203 thermostat is to be replaced by the Robertshaw ST1301133S thermostat on Solahart thermosiphon products (including Sunheat C series) commencing 13/04/2009. (**Note:** FD15-12 gas boosted solar systems will continue to use the EWT1L2S-203 thermostat until further notice)

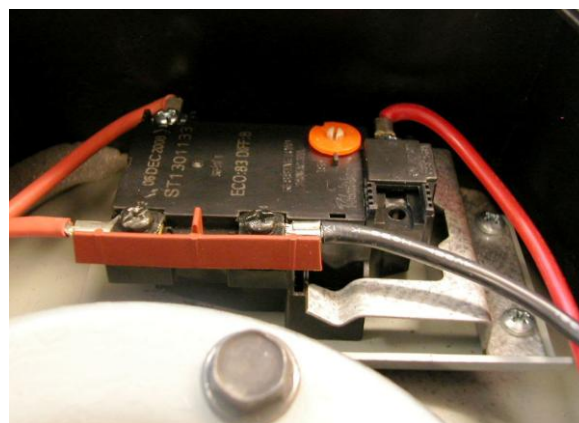
The ST1301133S (or ST13S for short) thermostat differs from the standard ST1301133 thermostat used in other solar applications. The ST13S has been modified to suit the Solahart thermosiphon application due to the close proximity of the thermostat terminals to the tank's central flange.

Two of the thermostat's connection terminals have been rotated by 90° to increase clearance.

A plastic guard is also fitted, providing several functions:

- 1) To prevent incorrect fitment of the wire terminals in the standard orientation.
- 2) To provide an electrical separator between terminals and flange (in the event of thermostat movement).
- 3) To prevent electrical bridging of the terminals.

The guard is captive within the terminal assembly; loosening the terminal connection screws to remove the wires does not allow the guard to fall out.



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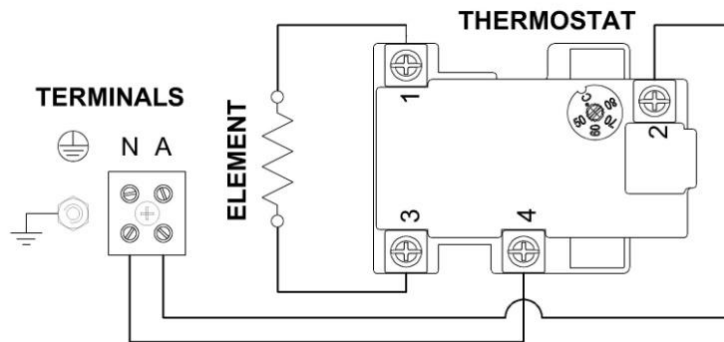
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It should be noted that although the ST13S thermostat is a direct replacement for the EWT series thermostat, the terminal connections and wiring arrangement is different. Therefore;



Whenever an EWT thermostat is replaced with a ST13S thermostat as a spare part, each water heater will require rewiring at the thermostat. Refer to the wiring diagram below for wiring arrangements utilising the new ST13S thermostat.



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ST Thermostat Replacement Table		
New ST Part Number	Old EWT Part Number	Where Used
052011	051336	25 litre electric storage
052012	051350	All 80 to 400 litre models except 411 and 462 series heaters
	051311	Rheem 591270, Solahart 270DBV & Edwards GTS models
	051333	52S & 511 (Edwards GTD & S/H Streamline) models
052013	051312	Rheem 11150F
	051313	Rheem 19150F & 69150F models
052014	051354	All Optima models 250 to 400 litres
052015	051314	All 50 litre heavy duty (3 element)
052016	051334	All 315 litre heavy duty (3 & 6 element)
052017	051349	Rheem 551310, Solahart 310HAV & Edwards EHP310 Heat Pumps
052018	051315	Top thermostat for non-sim operation of twin element models
052072	346010	Rheem 52H, Edwards L & LX systems
346030	346010	Post 2002 Solahart L, J, & Kf systems, Sunheat C Series

Note: Please refer to the next section for thermostat replacement for pre-2002 Solahart L, J, & Kf systems.



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Thermostat Adaptor Kit 12104209

This kit has been revised to feature the ST13S thermostat. The kit features two adaptors: one for pre-1997 tanks and one for 1997-2002 tanks. The 1997-2002 adaptor clip is unchanged. The pre-1997 adaptor, previously a thumb-screw retainer, has been replaced with a new adaptor to retain the thermostat via a clip as in all other applications. The thumbscrew retainer is not suitable for the ST13S thermostat.

The consequence for servicing is that if a pre-1997 tank has already had a thumbscrew adaptor fitted with an EWT thermostat, all of this must be discarded and replaced with the new design adaptor to fit the ST13S. The cross reference table below identifies where the adaptor kit should now be used.

Thermostat Adaptor Kit Use Table		
New Part Number	Old Part	Where Used
12104209	SA203 thermostat retained by screw	Pre-1997 Solahart L, J, & Kf systems
12104209	EWT thermostat retained by thumbscrew adaptor	
12104209	SA203 thermostat retained by screw	1997-2002 Solahart L, J, & Kf systems
346030	EWT thermostat retained by clip	



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