

T.I. no.: 2015 - 12 Updated: -	Topic: Steam boiler temperature sensor
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Date: 13/10/2015	Priority	Need for action
Affected machines: SCJ, Siena, Opal	High	As soon as possible
From serial number: -	Medium	On next visit to the machine
As of date: -	X Low	X FYI only

OVERVIEW

Until now, the complete steam boiler had to be replaced if the temperature sensor was defective. The following measures can be taken to optimise or troubleshoot the temperature sensor in the steam boiler:

The measures can be taken on the following steam boilers:

Article number:	Designation:	Article number:	Designation:
062347	DA-Boiler 130VAC 1kW	062352	DA-Boiler 120V AC 1kW
062349	DA-Boiler 110VAC 1kW	062356	DA-Boiler 240VAC 1kW
062350	DA-Boiler 230V AC 1kW	062357	DA-Boiler 200VAC 1kW
062351	DA-Boiler 100VAC 1kW		

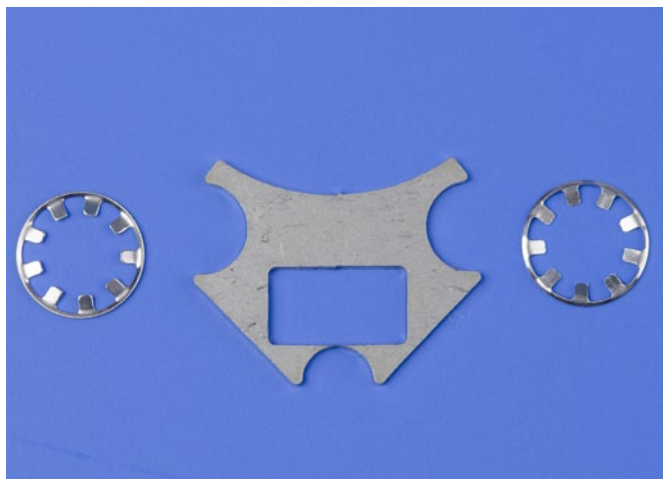
When doing so, note the version of the steam boiler:



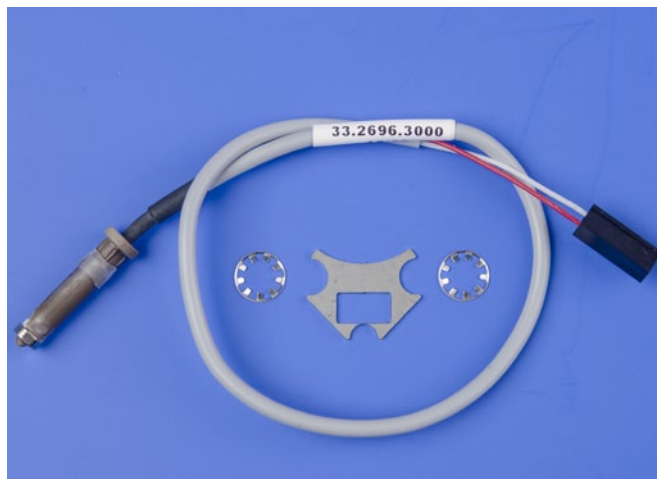
The following cases are known:

Case:	Description:	Measure:
1.	The steam boiler works perfectly.	▶ The "NTC temperature sensor hold-down unit" repair set with article number 068745 can be installed. A hold-down unit prevents the temperature sensor from sliding out.
2.	The temperature sensor has slid out of the immersion pipe or is defective.	▶ If the temperature sensor can be completely removed from the immersion pipe, the "NTC temperature sensor" repair set with article number 068746 can be installed. The temperature sensor is replaced, the hold-down unit prevents the temperature sensor from sliding out.
3.	The steam boiler is defective, or the temperature sensor or the elastomer cannot be completely removed from the immersion pipe.	▶ The steam boiler must be replaced..

REPAIR SETS



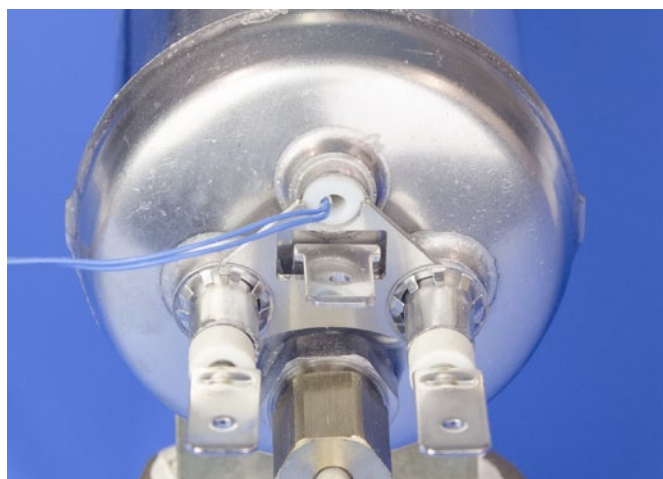
"NTC temperature sensor hold-down unit" repair set 068745



"NTC temperature sensor" repair set 068746

CASE 1

The steam boiler works perfectly. To prevent the temperature sensor from sliding out, the "NTC temperature sensor hold-down unit" with article number 068745 can be installed as a preventative measure.

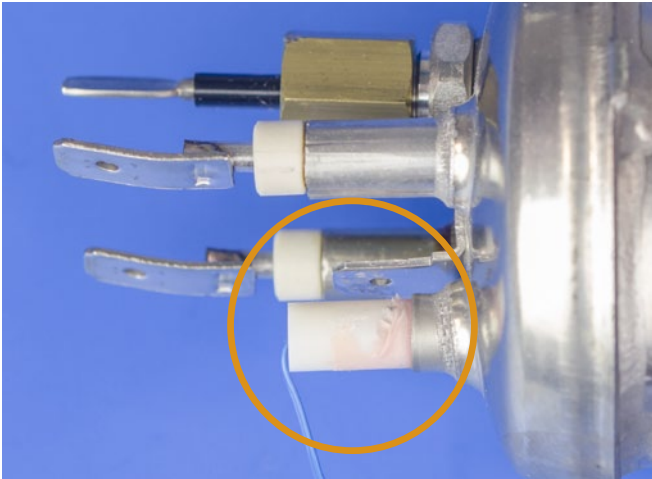


Steam boiler with installed "NTC temperature sensor hold-down unit" repair set 068745

- ▶ Install the "NTC temperature sensor hold-down unit" repair set with article number 068745 as illustrated.
- ☑ The hold-down unit prevents the temperature sensor from sliding out.

CASE 2

The temperature sensor has slipped out of the pipe or is defective.



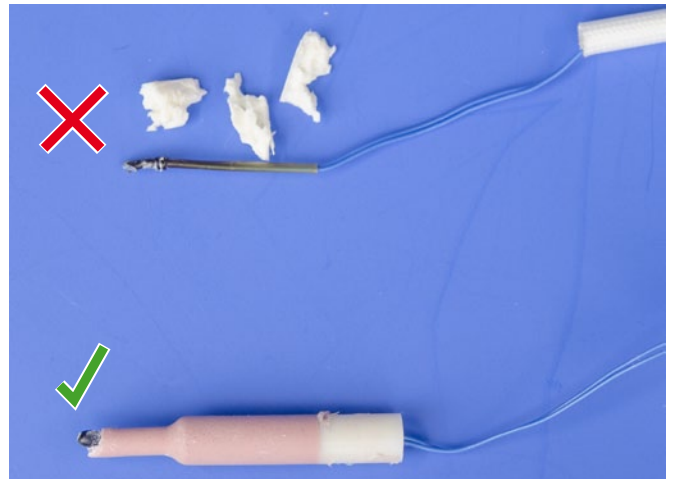
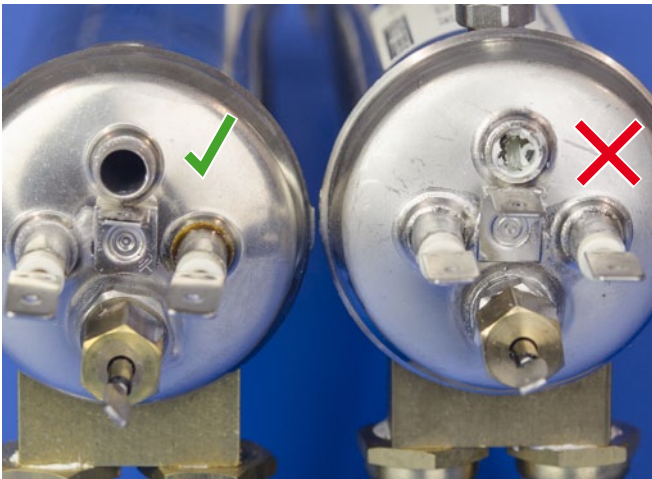
Temperature sensor including elastomer which has slipped out of the immersion pipe

NOTE

ONLY if the defective temperature sensor can be completely removed from the immersion pipe can the "NTC temperature sensor" repair set with article number 068746 be installed.

Otherwise the complete steam boiler must be replaced (see case 3).

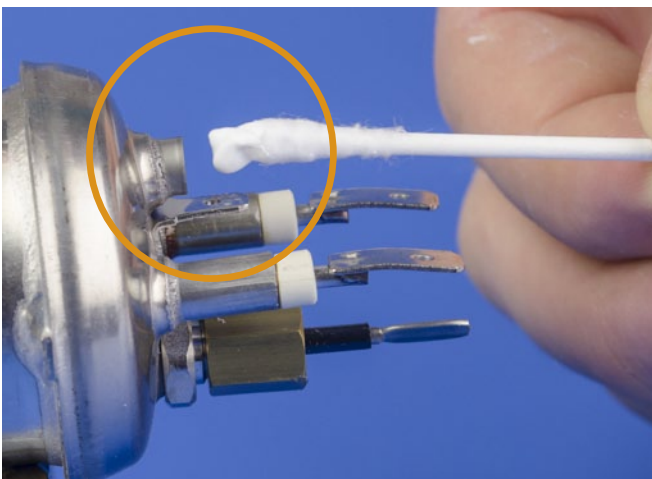
- ▶ **Completely** remove the defective temperature sensor including elastomer from the immersion pipe.



- ▶ Apply 0.2 g of thermally conductive paste (not included in the repair set) to the tip of a cotton swab.

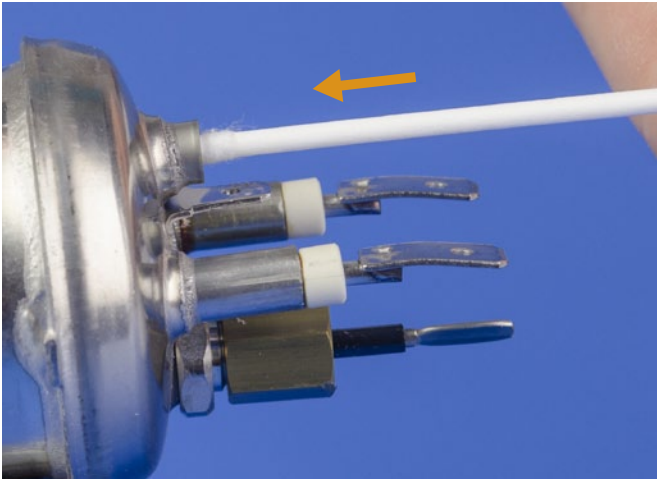
Note

The thermally conductive paste can be ordered under article number 067391 through the SAG sales channel.



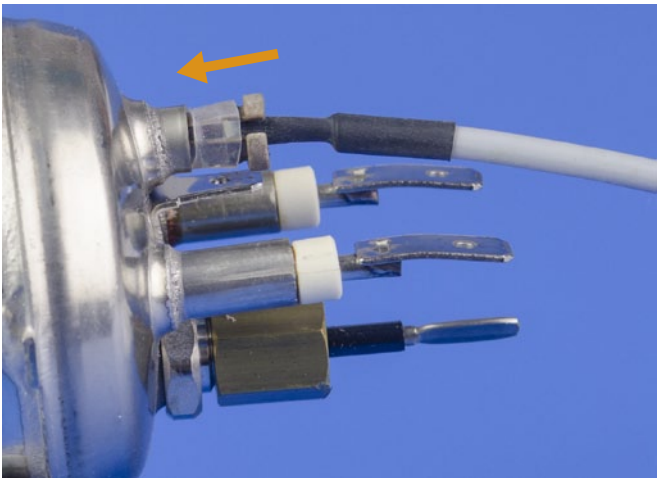
Cotton swab with 0.2 g thermally conductive paste

- ▶ Insert the cotton swab into the immersion tube up to the limit stop and then pull it out.



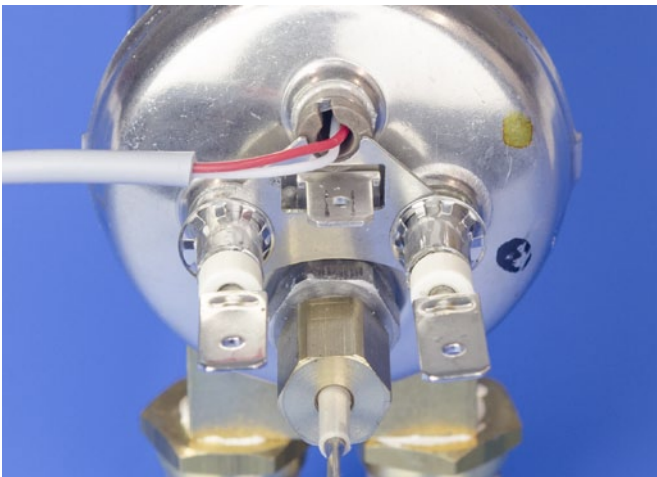
Insert cotton swab into the immersion tube up to the limit stop

- ▶ Carefully insert the temperature sensor into the immersion tube up to the limit stop.



Insert temperature sensor into the immersion tube up to the limit stop

- ▶ Install the hold-down unit.



Steam boiler with installed hold-down unit

CASE 3

The steam boiler is defective, or the temperature sensor or the elastomer cannot be completely removed from the immersion pipe.

- ▶ The steam boiler must be replaced..