
MI_2086: MI_2086: Arresting the Temperature sensor hot air eSTB after changing Heating assembly (E) or Heat exchanger (G)



iCombiClassic & iCombiPro E & G



45 min.



Standard / Additional

25/11/2025

NOTICE**Very Important: Do not bend the temperature sensor eSTB in any case!****Revision Log**

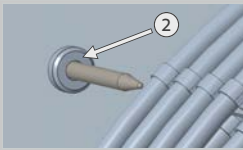
Changes from previous version of this manual:

The variant with a screwed socket and a spacer plate in the table of electrical units was deleted.

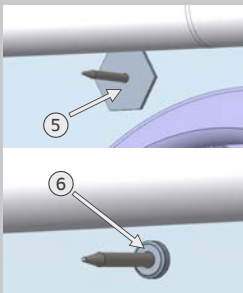
You have to remove the side cover of the unit for changing the temperature sensor eSTB. For iCombi 10 1/1E, 10 2/1E, 20 2/1E (upper and middle sensor) you can see the temperature sensor eSTB directly. For iCombi 10 1/1G, 6 1/1G, 20 1/1G, 10 2/1G, 20 2/1G you will find the temperature sensor eSTB behind the gas blower. For iCombi 20 2/1E (lowest sensor) you will find the temperature sensor behind the assembly plate of the I/O PCB.

In case of changing heating assemblies (E), heat exchangers (G) or the temperature sensor hot air eSTB (E & G) you need to adjust the temperature sensor hot air eSTB if your unit shows one of the following characteristics:

Electrical Units:

Temperature sensor hot air eSTB has a welded socket		Adjustment is necessary!
1 Welded socket		
Temperature sensor hot air eSTB has a screwed socket.		Adjustment is necessary!
2 Screwed socket		

Gas Units:

Temperature sensor hot air eSTB has a welded socket		Adjustment is necessary!
4 Welded socket		
Temperature sensor hot air eSTB has a screwed socket (big or small width)		You don't need to adjust.
5 screwed socket (big) 6 screwed socket (small)		

Required components

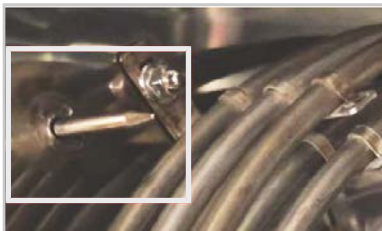
Use the KIT Art. no. 87.01.856S.

The following tools are required to carry out the assembly:

- Socket wrench or ratchet, key width #14 for temperature sensor eSTB
- Special RATIONAL-tools (you find the correct ones attached in the packaging):
 - 91.01.321 RATIONAL-tool 1: limit gauge for checking the distance between the temperature sensor and the heating assembly/heat exchanger.
 - 91.01.346 RATIONAL-tool 2: limit gauge for checking the distance between the temperature sensor and the heat assembly/heat exchanger.
 - 91.01.311 RATIONAL-tool 3: arbor for arresting the temperature sensor eSTB.

The reason for the adjustment is:

Due to tolerances in the production and the need of an exact position of the temperature sensor hot air eSTB it is necessary to have the correct distance between the sensor and the heating assembly/heat exchanger with a specific value for every unit (suitable limit gauge attached in the packaging).



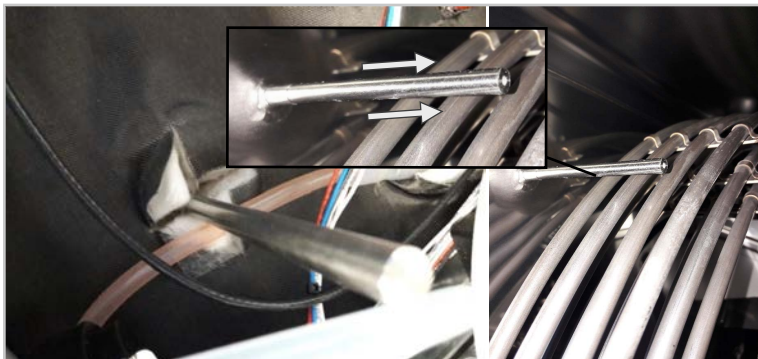
NOTICE

Please notice! The temperature sensor will be damaged by bending directly. Use the arbor delivered in your kit.

The following steps are necessary for the adjustment:

- a. Loosen the nut (width #14) of the temperature sensor eSTB and dismantle the sensor. In order to reach the nut and to do the adjustment in gas units it is necessary to dismantle the steam gas blower.
- b. If necessary change the heating assembly (E) or the heat exchanger (G). This is not necessary if only the temperature sensor eSTB has to be changed.
- c. Do not reassemble the temperature sensor eSTB into the socket before the adjustment.

- d. For the adjustment, put the arbor through the welded or screwed socket from the installation side as deep as possible.



- e. Check the distance between the arbor and the Heating assembly/Heat exchanger by using the limit gauge. The arbor has the same diameter as the temperature sensor eSTB.
 - Choose the correct limit gauge for your unit and find the correct range on the gauge for your unit as shown below as vertical thick lines. In case of the 202 E you need two different ranges.

RATIONAL-tool 1: 91.01.321	Min	Max	Limit Gauge
102 G, 201 G, 202 G	10 mm	25 mm	91.01.321
61 E	3 mm	6 mm	
201 E	8 mm	13 mm	



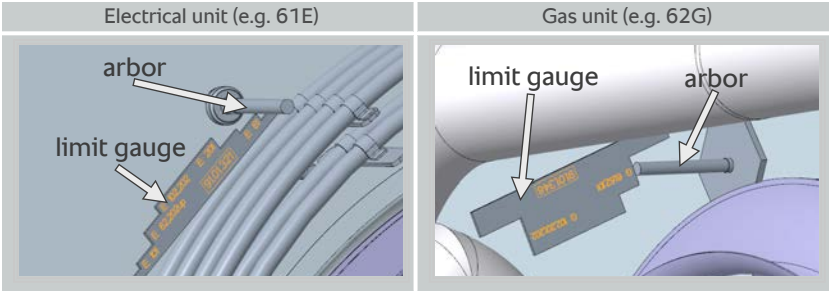
The diagram shows a blue stepped profile of the limit gauge 91.01.321. Red text labels indicate the corresponding components: 'G: 102,201,202' for the highest step, 'E: 201' for the middle step, and 'E: 61' for the lowest step. The gauge number '91.01.321' is printed in red on the middle step.

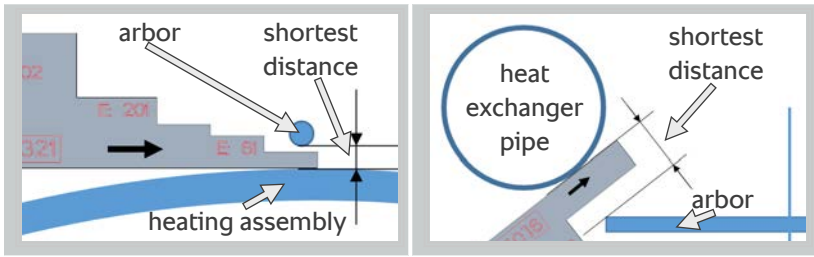
RATIONAL-tool 2: 91.01.346	Min	Max	Limit Gauge
61 G, 62 G, 101 G	7 mm	18 mm	91.01.346
101 E	3 mm	5 mm	
62 E, 202 upper heating assembly	5 mm	10 mm	
102 E, 202 E middle & lower heating assembly	10 mm	13 mm	



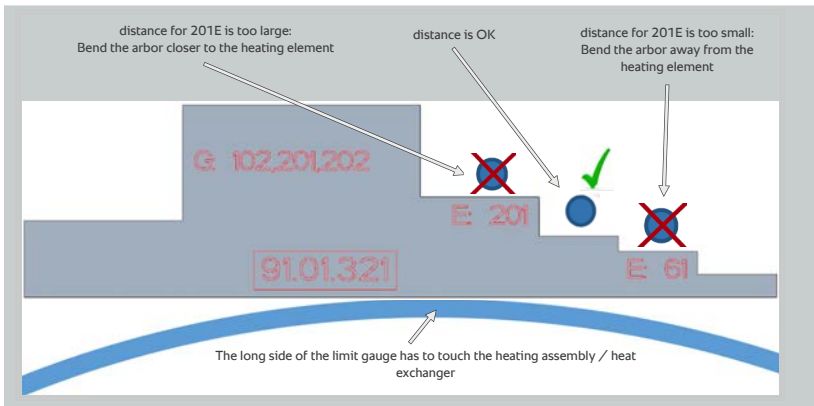
The diagram shows a blue stepped profile of the limit gauge 91.01.346. Red text labels indicate the corresponding components: 'G: 61,62,101' for the highest step, 'E: 102,202' for the second step, 'E: 62,202p' for the third step, and 'E: 101' for the lowest step. The gauge number '91.01.346' is printed in red on the second step.

- Check the distance by putting the limit gauge between the arbor and the Heating assembly (E) or the heat exchanger (G) at the correct range. In gas units you need to put in the limit gauge with an angle that measures the shortest distance between the arbor and the heat exchanger.

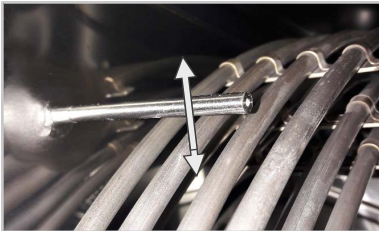




- Evaluation of the distance, e. g. for the electrical unit 201E:



- If the distance is out of range bend the socket into the correct position by using the arbor and check the distance again.



- When the distance is OK reassemble the temperature Sensor eSTB into the welded or screwed socket.
- Check the distance for a last time, now between the assembled temperature sensor eSTB and the heating element.
- Reassemble the steam gas blower and all other components.
- Don't forget to do a gas leak test for all affected gas components at last.