

TI_2220: New gas service messages 140



SelfCookingCenter; iCombi Pro; iCombi Classic



21/09/2022

Topics

We would like to inform you that we have added new service messages with the following software versions, which serve to protect against damage to the gas combustion system:

- SelfCookingCenter Index H & I (from 09/2011): SCC-07-00-10.6.34
- iCombi Pro Index J (from 05/2020): LM100-16.3.28
- iCombi Classic Index J (from 05/2020): LM200-8.0.0

In order to enhance the customer benefit here, please update the RATIONAL cooking system with the latest software version.

Repair/modification:

- SelfCookingCenter software: SCC-07-00-10.6.34
- Software iCombi Pro: LM100-16.3.28
- Software iCombi Classic: LM200-8.0.0

The software is now available on the RATIONAL portal and will soon also be available via the RATIONAL Loader.

The software update can, of course, also be installed on RATIONAL cooking systems with electrical heating and contains the improvements outlined in the software release notes.

Reason:

Unsuccessful ignition of the hot air burner previously resulted in the "GAS RESET" error message, among other things, or the Service 32.1 introduced with the iCombi line. There are various possible causes for this condition, such as defects or fluctuations in the gas supply or faulty components in the gas combustion system. The message "GAS RESET" or the Service 32.1 introduced with the iCombi line could be acknowledged without restrictions on the number of messages.

In order to reliably eliminate permanent faults in the gas supply or in the gas combustion system hot air, this condition has been changed and protected against. Examples of possible errors and safety-related effects include:

- A fluctuating gas supply composition can lead to sub-optimal combustion and to damage to components of the combustion system
- Insufficient gas supply can lead to delayed ignition and noise development
- Faulty components can negatively affect the ignitability of the system and lead to damage to other components
- Faulty components can also have a negative impact on the cooking result and/or energy consumption

If the cause of the fault is not rectified, this will in future lead to the unit being blocked from cooking, as described below:

Trigger criteria and warning levels:

If the hot air burner does not ignite successfully, the usual error messages (e.g. "GAS RESET" or the Service 32.1 introduced with the iCombi line) will continue to be output. The following warning levels and finally a block are also output depending on the trigger criteria outlined below:

- Criteria A: Several gas resets of the hot air system in succession

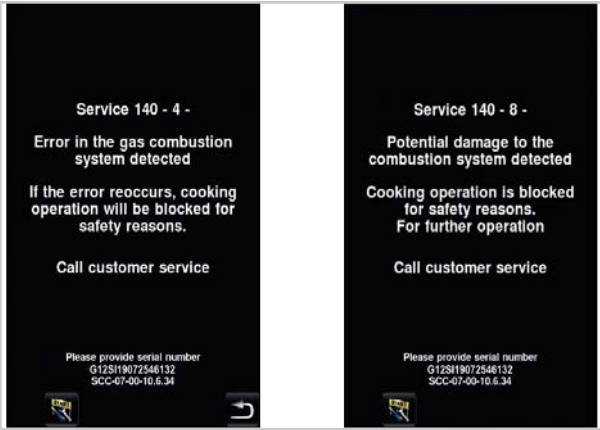
- Criteria B: Short circuit on the ignition electrodes of the hot air system for at least 60 s
- a. Warning level 1 – Service 140.4
Criterion A or B
Service 140.4 indicates a fault in the gas combustion system, informs that the unit will be blocked if the fault remains and issues the instruction to contact customer service.
- b. Warning level 2 – Service 140.4
Another time criterion A or criterion B occurrence within 72 hours.
Service 140.4 is output again with the same notes.
- c. Warning level 3 and block – Service 140.8
Another time criterion A or criterion B occurrence within 72 hours.
Service 140.8 is output, which blocks the unit for cooking and issues the instruction to contact customer service.

NOTICE

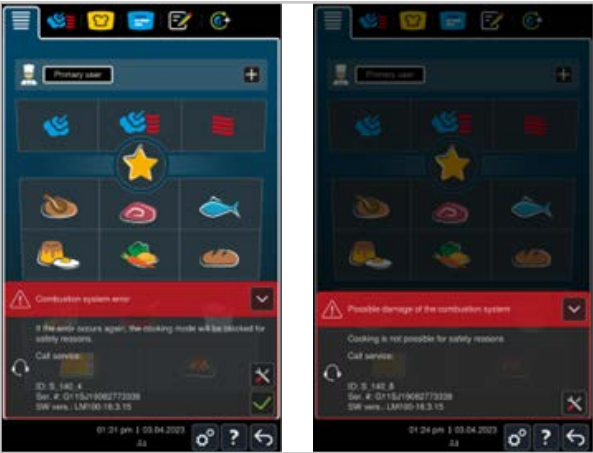
For technical reasons, the detailed implementation of trigger criterion A varies between the units and is shown at the end of the Technical Information sheet.

Error messages:

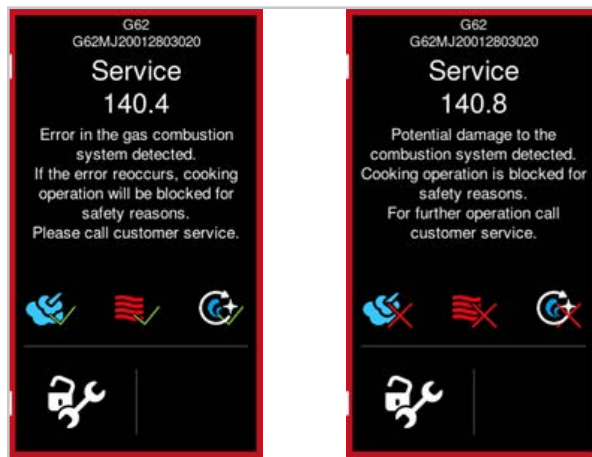
- SelfCookingCenter



- iCombi Pro



- iCombi Classic



Troubleshooting:

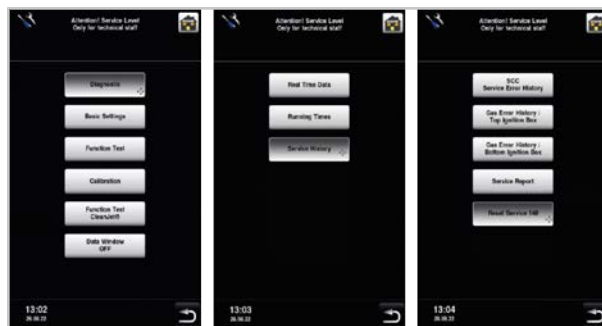
If Service 140.4 or 140.8 is displayed, check the following components for damage and replace if necessary:

- Heat exchanger
- Ignition and ground electrode
- Burner
- Gas valve
- Gas blower

Service 140.8 can only be reset by service technicians in the service menu. The required button for gas units can be found under the following paths:

- SelfCookingCenter

Diagnosis → Service History → Reset Service 140



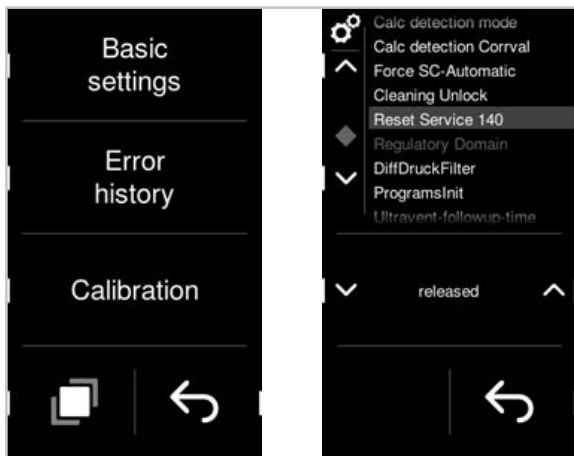
- iCombi Pro

Gas → Gas Parameters → Reset Service 140



- iCombi Classic

Basic Settings → Reset Service 140



Please contact your RATIONAL Technical Service contact person with any questions

Implementation of trigger criterion A

Trigger criterion A aims to detect a total of 7 consecutive gas errors. This corresponds to the maximum number of gas errors permitted by the manufacturer of the automatic ignition controller within 32 minutes. The gas errors must also relate to ignition problems in one of the hot air heat exchangers.

The critical gas errors have the following error codes:

- 17: Flame current measured 1 s before opening the gas valve (hot air top)
- 37: Flame current measured 1 s before opening the gas valve (hot air bottom)
- 18: Flame current measured 10 s after closing the gas valve (hot air top)
- 38: Flame current measured 10 s after closing the gas valve (hot air bottom)
- 22: 5x unsuccessful ignition process (hot air top)
- 42: 5x unsuccessful ignition process (hot air bottom)

SelfCookingCenter

- Critical gas error reset 4 times
- Results in Service 33.x, which requires the unit to be restarted
- Critical gas error reset 4 times

iCombi Pro & iCombi Classic

- Critical gas error reset 7 times within 32 minutes

A total of 105...120 misfires within 72 h and ignoring the associated service messages is therefore required to generate Service 140.8 and block the unit from operation.

Revision Log

Changes from previous version of this manual:

- Updated title to address gas service message 140 consistently:
 - "New gas service messages 140" replaces "New gas service message SelfCookingCenter (from 09/2011)"
- Chapter "Topic" has been updated:
 - Integration of iCombi Pro and iCombi Classic including associated software versions.
- Chapter "Remedy/Change" has been updated:
 - Integration of iCombi Pro and iCombi Classic including associated software versions.
- Chapter "Reason" has been updated:
 - Chapter "Trigger criteria and warning levels" replaces "Future", "Error messages" replaces "Detailed note". Content coordinated and adapted accordingly.
 - Graphics updated
 - Chapter "Implementation of trigger criterion A" integrated