

MI_2403 Cabinet door - removal and installation



iHexagon



90 min.



see required tool



24/11/2025

Topic

The information describes:

- Work steps - removal of the cabinet door [► 4]
- Work steps - installation of the cabinet door [► 9]
- Work steps - checking the X-axis top [► 13]
- Work steps - setting the X-axis top [► 14]
- Work steps - checking the X-axis bottom [► 15]
- Work steps - setting the X-axis bottom [► 16]
- Work steps - checking the Z-axis top, right [► 17]
- Work steps - setting the Z-axis top, right [► 18]
- Work steps - checking the Z-axis bottom, right [► 19]
- Work steps - setting the Z-axis bottom, right [► 20]
- Work steps - checking the Z-axis top, left [► 21]
- Work steps - checking the Z-axis bottom, left [► 24]
- Work steps - removal of the latch (if necessary) [► 26]
- Work steps - installation of the latch (if necessary) [► 27]
- Work steps - function test Interlock Safety System (ISS) [► 28]
- Work steps - potential troubleshooting Interlock Safety System (ISS) [► 31]

Affected product/accessories

iHexagon

- 6-1/1

Required tool

- Standard
- Multimeter
- Calliper
- Microwave leakage tester
- Torque wrench (33 Nm)

Required components

The following components are required for removal, installation and adjustment:

- The Item no.: 87.02.019S "Door set" contains the following components:

Component:	Item number:
Door cpl. 061 LM4	24.02.316
Drain cover door LM4 08/23	24.05.326
Door adjustment aid set LM4	87.02.018S
Cooking cabinet gasket 061E LM4	20.04.191P
Door drip tray cpl. 061E LM4	24.05.623
Swash protection 061E LM4	24.02.665
Fastening rivet can be removed	10.02.008

- The Item no.: 87.02.018S "Door adjustment aid set" includes the following components

Component:	Item number:
Gauge latch Z direction*Good* LM4	91.01.959
Gauge latch Z direction*Bad* LM4	91.01.960
Gauge door X direction LM4	91.01.961
Adjustment aid X-axis cpl. LM4	91.01.383
Shim plate latch 061E LM4	24.05.537
Latch cover 061E LM4	24.04.961
Cylinder screw TX 25 M5x20	10.02.156
Shim plate for door adjustment 61* LM4	14.01.112

General information

NOTICE! For safety reasons, a second person should always be present when carrying out the complete removal and installation.

The door handle must be at a 90° angle during the complete test/adjustment.

NOTICE

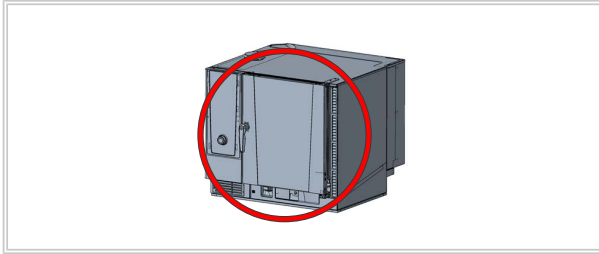
Enter the installation of the component on the service level ("Component replacement" tab). This is an integral part of the maintenance history.

Target group

- This document is intended for skilled technicians, who have been certified by the manufacturer after attending training and safety instructions.
- Installation, inspection, maintenance, and repair work must only be carried out by trained technicians.
- It is recommended that only technicians authorised by the manufacturer perform inspection, maintenance and repair work.
- The unit may not be used, cleaned, or maintained by children. The unit may not be used for play. This is prohibited even under supervision.
- The unit may not be used, cleaned, or maintained by people with limited physical, sensory, or mental capacity or those without the necessary experience or knowledge, unless such people are supervised by a person who is responsible for their safety and who has been informed of the hazards of the unit.

- In order to prevent accidents or damage, the manufacturer recommends that technicians attend training and safety instructions.

Installation position



Safety instructions

DANGER

High voltages when connecting to the mains power

Danger to life due to high voltage.

- Disconnect from the power supply.
- Secure against unintentional switching on.
- Make sure the unit is disconnected from the power.

CAUTION

Sharp edges on the housing

Risk of cuts on the housing when working in the electrical compartment.
Wear protective gloves.

WARNING

Risk of chemical burns due to cleaning chemicals

There is a risk of chemical burns from conscious and unconscious contact with cleaning chemicals.

- During installation and maintenance, wear tight-fitting safety glasses and chemical protective gloves that will allow you to handle cleaning products safely.

NOTICE

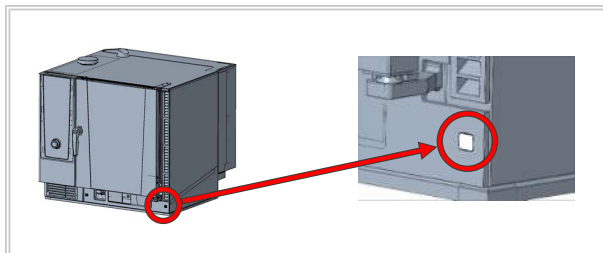
Observe regional and country-specific safety and testing regulations

The relevant regional, country-specific safety and testing regulations apply to all work on RATIONAL units. These regulations may vary by region and are country-specific and are therefore not listed separately in this document. The technician is responsible for complying with these regulations.

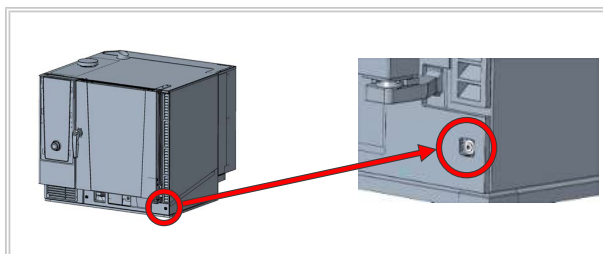
Work steps – removal of the cabinet door

✓ The unit is switched off and voltage-free.

1. Remove the cover flap.



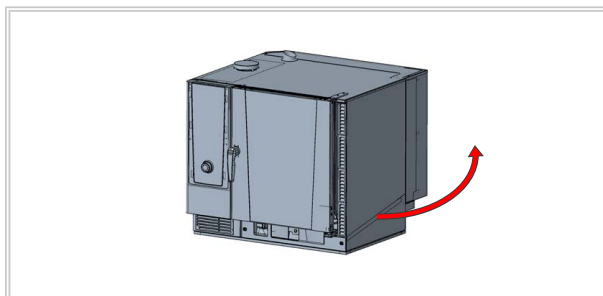
2. Remove the plastic expanding rivet.



3. Remove the top fastening screw on the rear of the unit.
To do this, use an attachment with wrench width 8 for the screw driver.



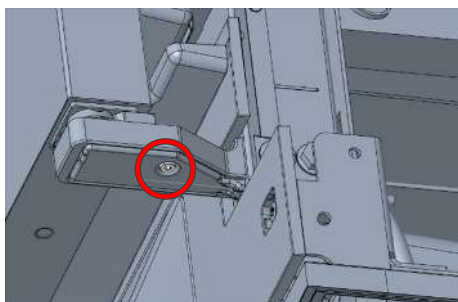
4. Remove the right side panel.



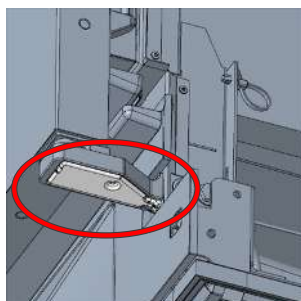
5. Disconnect the door light cable.



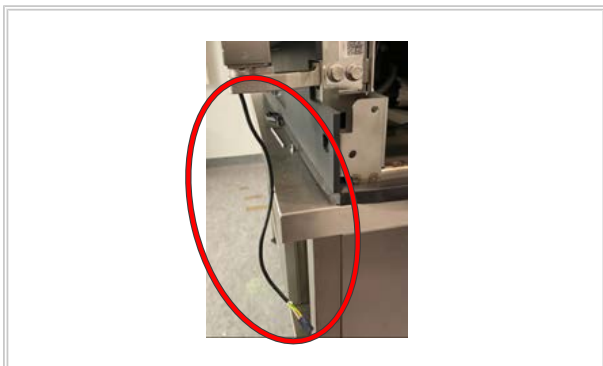
6. Remove the screw on the underside of the door retaining bracket. Use an attachment with 3 mm [1/8 inch] hexagon socket for the screw driver.



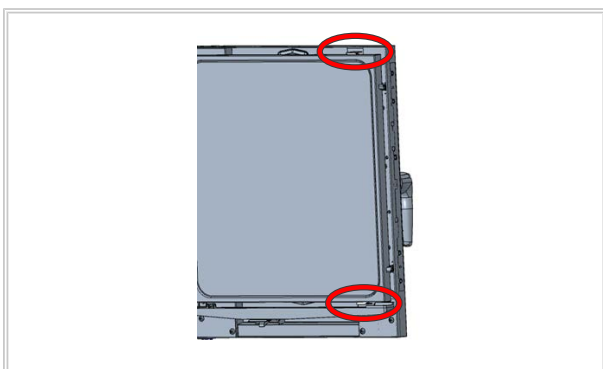
7. Remove the cover of the door retaining bracket. To do this, use a slot attachment for the screw driver to loosen the cover and move it downwards.



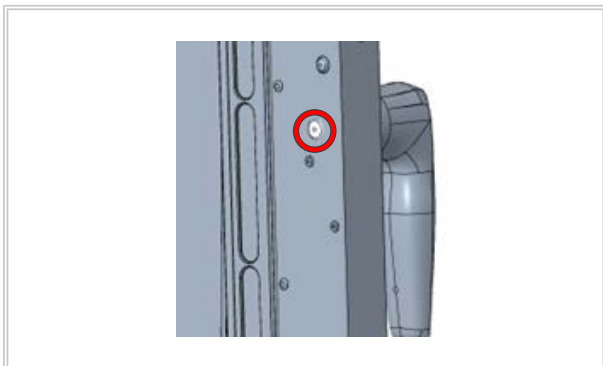
8. Carefully pull the door light cable out of the door retaining bracket.



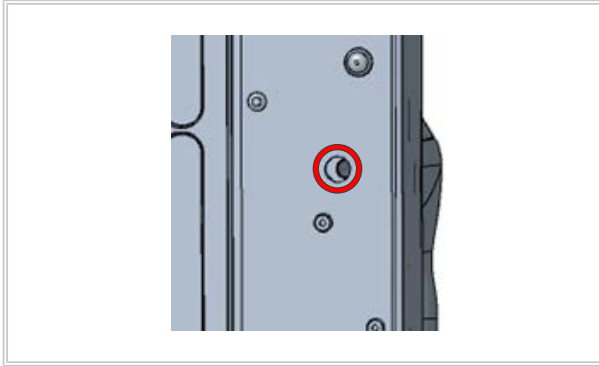
9. Open the cooking cabinet door.
10. Open the upper and lower retaining tabs of the door latch.
NOTICE! When the door latch is open, make sure that it does not strike the front wall.



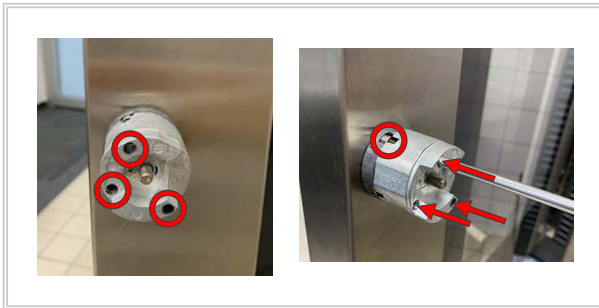
11. Swing the door latch open.
12. Remove the cover plug from the inside of the cabinet door.



13. Loosen the screw holding the door handle.
Use a TX20 attachment for the screw driver.
The door handle must be held firmly.

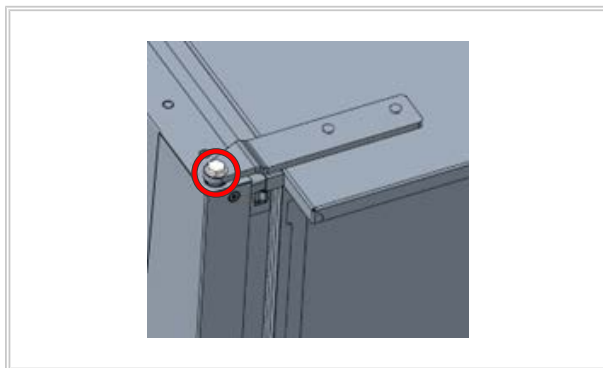


14. Loosen the 3 screws of the handle holder.
Use a TX20 attachment for the screw driver.



15. Remove the handle holder.
Use a TX20 attachment for the screw driver.
The cabinet door must not be closed after this step.
16. Close the door latch.

17. Loosen the screw on the door holding plate at the top.
To do this, use an attachment with wrench width 13 for the screw driver.



18. **NOTICE! Two people must carry out the next steps together.**
19. Open the cooking cabinet door.
NOTICE! The cabinet doors must be open at a 90° angle for this. The cabinet door must be held by one person.
20. Press out the axle stub.
NOTICE! Make sure that the axle stub does not jump out upwards.



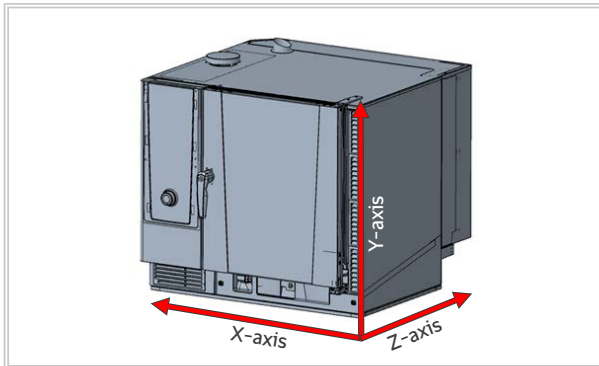
21. Carefully remove the cabinet door.
NOTICE! Remove the door light cable from the door retaining bracket.
22. Remove the old cooking cabinet gasket.
Use a flat-blade screw driver, for example.
>> The removal is complete.

Work steps - installation of the cabinet door

To simplify checking and adjustment on the unit, the unit is divided into axes.

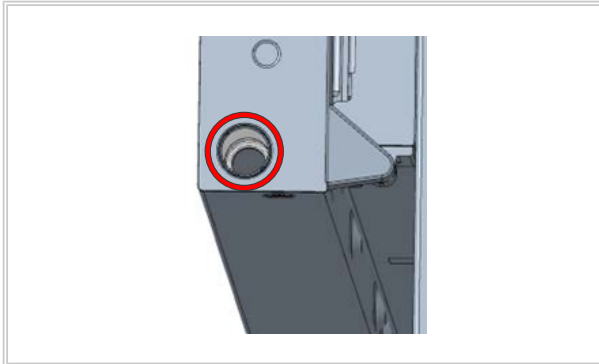
The following axes are used for this purpose:

- X-axis = width of the unit
- Y-axis = height of the unit
- Z-axis = depth of unit

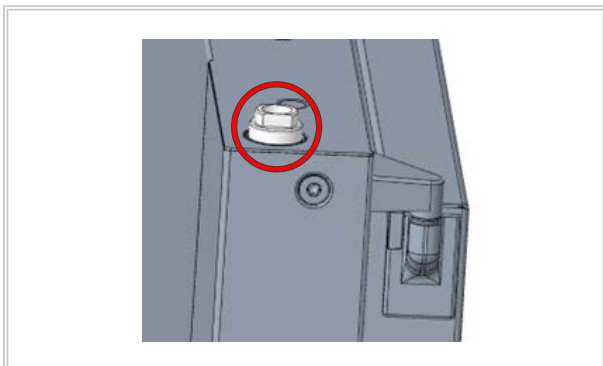


✓ The unit is switched off and voltage-free.

1. Lubricate the hole at the top of the new cabinet door.



2. Insert the axle stub of the old cabinet door, including the spring.



3. Pull the door lighting cable approx. 20-30 mm [25/32-1 6/32 inch] out of the new cabinet door.

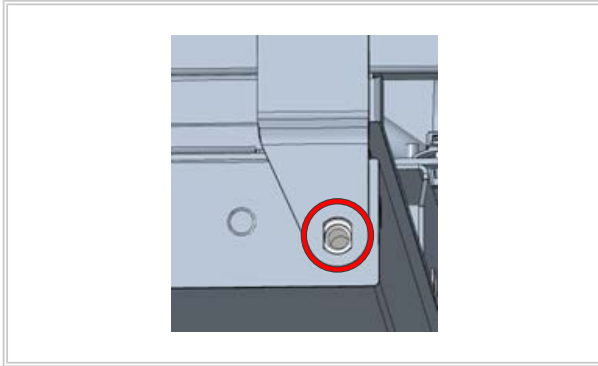


4. Peel off the adhesive strip above the cooling fan.
NOTICE! The cooling fan is located on the lower hinge side of the cabinet door.

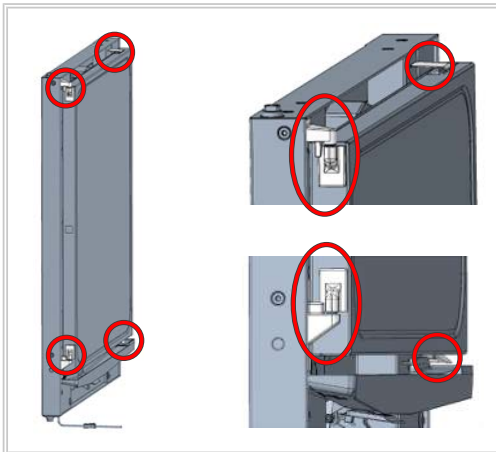


5. Install the drain cover with 2 expansion rivets.

6. **NOTICE! Two people must carry out the next steps together.**
7. Thread the door lighting cable through the bottom door retaining bracket and insert the cabinet door into the door retaining bracket at the bottom.
8. Install the axle stub in the door holding plate at the top.
To do this, press the axle stub into the cabinet door.
Hold the axle stub firmly and thread it into the door holding plate from below.
NOTICE! Check that the axle stub is correctly engaged.



9. Loosen the screws on the door holding plate.
Tighten the screw with a torque of 33 Nm [24.34 lbf ft].
For this purpose, use an attachment with wrench width 13 for the torque wrench.
10. Check the new cabinet door for:
 - Damage
 - Freedom of play on both hinges of door latch
 - Seating of the top and bottom retaining tabs.



11. Mount the handle mounts, door handle and cover plug of the old cabinet door on the new cabinet door.
Tighten the handle mount with a torque of 4 Nm [2.95 lbf ft] and the door handle with a torque of 9 Nm [6.64 lbf ft].
Use a TX20 attachment for the torque wrench.
12. Pull the door lighting cable completely out of the cabinet door.
13. Thread the door lighting cable through the door retaining bracket.
14. Plug in the door lighting cable.
15. Close the cabinet door carefully.
If the locking hooks collide with the front wall, adjust the X-axis at the top and bottom.
If the door latch on the hinge side rubs against the cooking cabinet opening frame, adjust the Z-axis at the top and bottom right.



Work steps - checking the X-axis top

- ✓ The door handle must be at a 90° angle during the complete test/adjustment.
 - ✓ No cooking cabinet gasket may be installed.
1. **WHAT:**
Check that the distance between the front wall and the cabinet door is correct.
 2. **WHERE:**
Check the measured value between the front wall and the cabinet door at the height of the upper latch or use the gauge.
 3. **HOW:**
Option 1:
Measurement: The measured value must be between 8.0 mm-8.5 mm [10/32-21/64 inch].

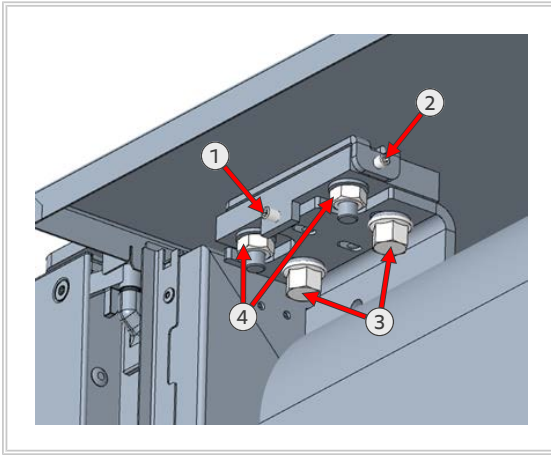


4. **HOW:**
Option 2:
Use of the "Door X-direction LM4 gauge" Item no.: 91.01.961
The green box must fit in the gap, the red box must not fit in the gap.



5. **If the measured value or the gauge does not match, the cabinet door must be adjusted.**

Work steps - setting the X-axis top



- ✓ The door handle must be at a 90° angle during the complete test/adjustment.
- 1. Hand-tighten the grub screw (1) (X-axis) and grub screw (2) (Z-axis) to the stop.
Use an attachment with 2.5 mm [3/32 inch] hexagon socket for the screw driver.
- 2. Loosen both screws (3) and nuts (4).
To do this, use an attachment with wrench width 13 for the screw driver.
- 3. Adjust the X-axis correctly with the grub screw (1).
For this purpose, use an attachment with 2.5 mm [3/32 inch] hexagon socket for the screw driver. **No cooking cabinet gasket may be installed. If the door holding plate is under tension at the top, it can be loosened by moving it.**
- 4. Tighten the two screws (3) with a torque of 33 Nm [24.34 lbf ft].
For this purpose, use an attachment with wrench width 13 for the torque wrench.
- 5. Tighten the two nuts (4) with a torque of 33 Nm [24.34 lbf ft].
For this purpose, use an attachment with wrench width 13 for the torque wrench.
- 6. **Please check again. If the measured value or the gauge does not match, the adjustment must be repeated.**

Work steps - checking the X-axis bottom

- ✓ The door handle must be at a 90° angle during the complete test/adjustment.
- 1. **WHAT:**
Check that the distance between the front wall and the cabinet door is correct.
- 2. **WHERE:**
Check the measured value between the front wall and the cabinet door at the height of the lower latch or use the gauge.
- 3. **HOW:**
Option 1:
Measurement: The measured value must be between 8.0 mm-8.5 mm [10/32-21/64 inch].

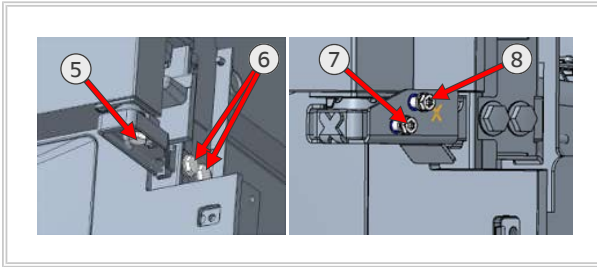


- 4. **HOW:**
Option 2:
Use of the "Door X-direction LM4 gauge" Item no.: 91.01.961.
The green box must fit in the gap, the red box must not fit in the gap.

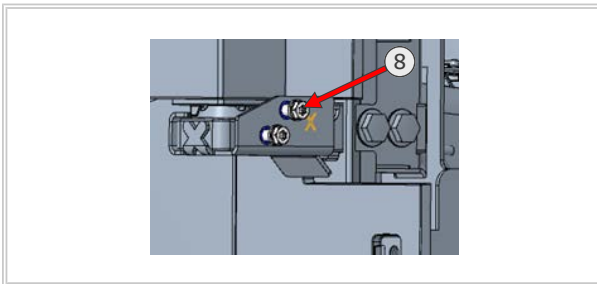


- 5. **If the measured value or the gauge does not match, the cabinet door must be adjusted.**

Work steps - setting the X-axis bottom



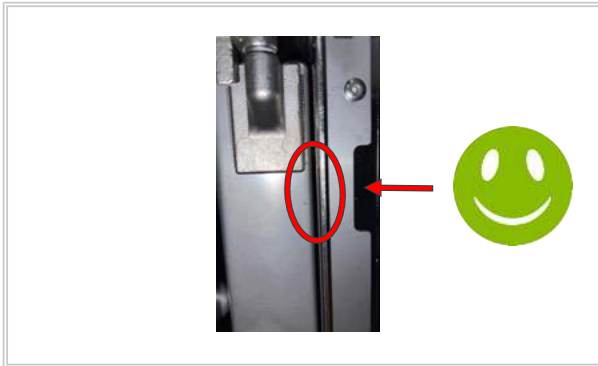
- ✓ The door handle must be at a 90° angle during the complete test/adjustment.
- ✓ No cooking cabinet gasket may be installed.
- 1. Slide the "Adjustment aid X-axis cpl. LM4" Item no.: 91.01.383 at the bottom over the door retaining bracket and tighten the screw (7).
To do this, use an attachment with wrench width 8 for the screw driver.
- 2. Tighten the screw (8) hand tight.
The screw (8) must touch the locking pin.
To do this, use an attachment with wrench width 8 for the screw driver.
- 3. Close the cooking cabinet door.
- 4. Loosen the screw (5) on the door retaining bracket for the locking pin.
To do this, use an attachment with wrench width 13 for the screw driver.
- 5. Use the screw (8) to adjust the locking pin and the X-axis correctly.
To do this, use an attachment with wrench width 8 for the screw driver. **NOTICE! During the adjustment of the locking pin, the cabinet door must be closed and the door handle must remain at a 90° angle.**



- 6. Tighten the screw (5) on the door retaining bracket for the locking pin with a torque of 33 Nm [24.34 blf ft].
For this purpose, use an attachment with wrench width 13 for the torque wrench.
- 7. Remove the "Adjustment aid X-axis cpl. LM4" Item no.: 91.01.383.
- 8. Swing the cabinet door open once carefully, but without braking, to make sure that the locking pin is turned to the stop.
- 9. **Please check again. If the measured value or the gauge does not match, the adjustment must be repeated.**

Work steps - checking the Z-axis top, right

- ✓ The door handle must be at a 90° angle during the complete test/adjustment.
- 1. Open the cooking cabinet door.
- 2. Install the new cooking cabinet gasket.
- 3. WHAT:
Check that the gap between the door latch and the cooking cabinet opening frame is less than 1.0 mm [3/64 inch].
Check that the door latch does not rub against the cooking cabinet opening frame.
- 4. WHERE:
Check the gap between the door latch and the cooking cabinet opening frame at the height of the cut-out at the top.

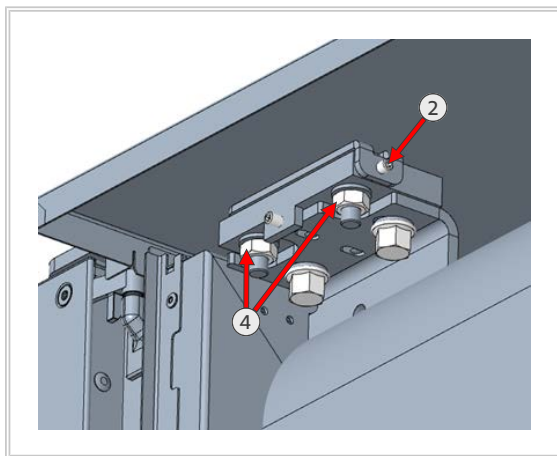


- 5. HOW:
The red "Gauge latch Z direction*Bad* LM4" Item no.: 91.01.960 can be used for this purpose.
The gauge must not fit into the gap. The door latch must not rub against the cooking cabinet opening frame.



- 6. If the check is negative, the cooking cabinet door must be adjusted.

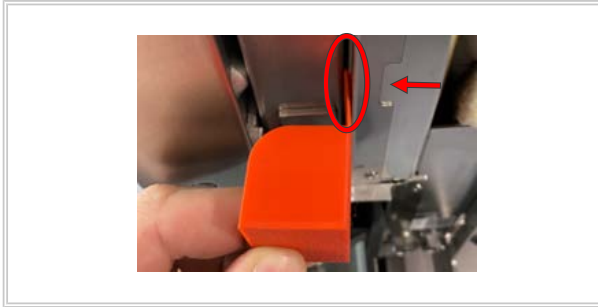
Work steps - setting the Z-axis top, right



- ✓ The door handle must be at a 90° angle during the complete test/adjustment.
- 1. Loosen the two nuts (4).
To do this, use an attachment with wrench width 13 for the screw driver.
- 2. Use the grub screw (2) to adjust the Z-axis.
Use an attachment with 2.5 mm [3/32 inch] hexagon socket for the screw driver.
- 3. Tighten the two nuts (4) with a torque of 33 Nm [24.34 lbf ft].
For this purpose, use an attachment with wrench width 13 for the torque wrench.
- 4. **Please check again. If the check is negative, the cabinet door must be adjusted.**

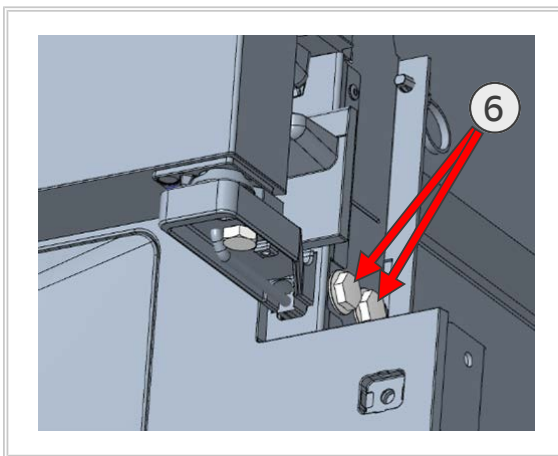
Work steps - checking the Z-axis bottom, right

- ✓ The door handle must be at a 90° angle during the complete test/adjustment.
- 1. WHAT:
Check that the gap between the door latch and the cooking cabinet opening frame is less than 1.0 mm [3/64 inch].
Check that the door latch does not rub against the cooking cabinet opening frame.
- 2. WHERE:
Check the gap between the door latch and the cooking cabinet opening frame at the height of the cut-out at the bottom.



- 3. HOW:
Use of the red "Gauge latch Z direction*Bad* LM4" Item no.: 91.01.960 .
The gauge must not fit into the gap. The door latch must not rub against the cooking cabinet opening frame.
- 4. **If the check is negative, the cooking cabinet door must be adjusted.**

Work steps - setting the Z-axis bottom, right



- ✓ The door handle must be at a 90° angle during the complete test/adjustment.
- 1. Loosen the two screws (6) on the door retaining bracket at the bottom. To do this, use an attachment with wrench width 13 for the screw driver.
- 2. Adjust the door retaining bracket at the bottom. Use a rubber mallet, for example.
- 3. Tighten the two screws (6) with a torque of 33 Nm [24.34 lbf ft] on the door retaining bracket at the bottom. For this purpose, use an attachment with wrench width 13 for the torque wrench.
- 4. **Please check again. If the check is negative, the cabinet door must be adjusted.**

Work steps - checking the Z-axis top, left

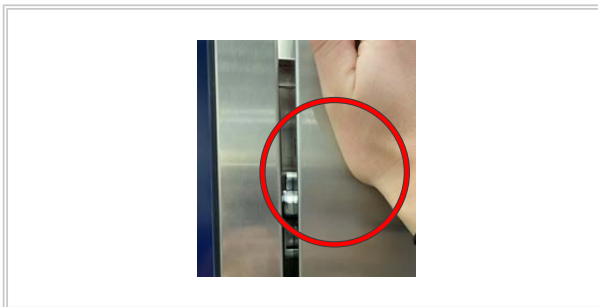
- ✓ The door handle must be at a 90° angle during the complete test/adjustment.
- 1. **WHAT:**
Check the correct setting and/or the closing behaviour of the upper latch.
- 2. **WHERE:**
Upper latch.
- 3. **HOW:**
Use of the red "Gauge latch Z direction*Bad* LM4" Item no.: 91.01.960 and the green "Gauge latch Z direction*Good* LM4" Item. no.:91.01.959.

Use of gauges:

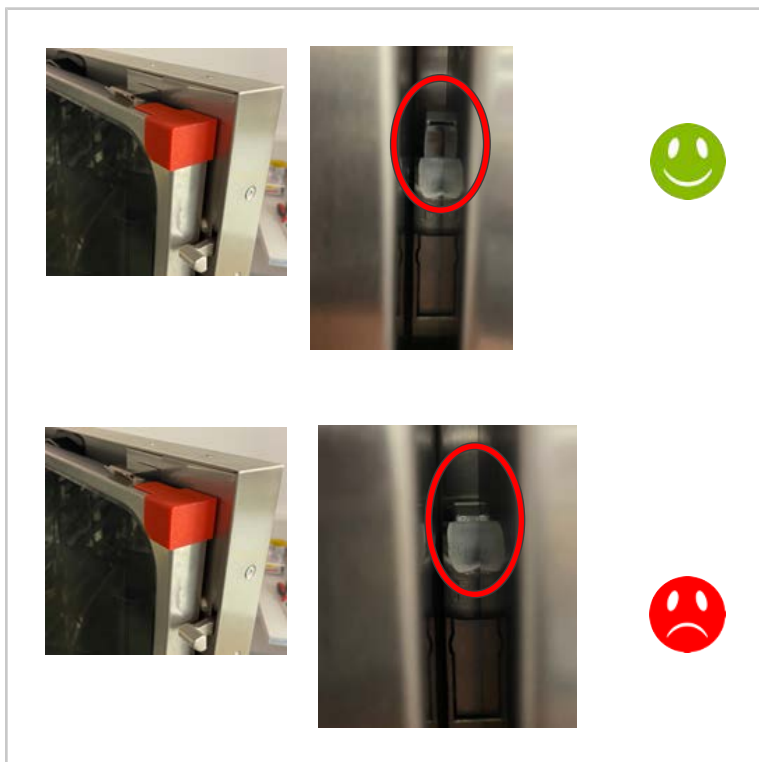
- 4. Place the "Gauge latch Z direction*Bad* LM4" Item no.: 91.01.960 (red, 2.5 mm [3/32 inch]) on the upper corner of the door latch.



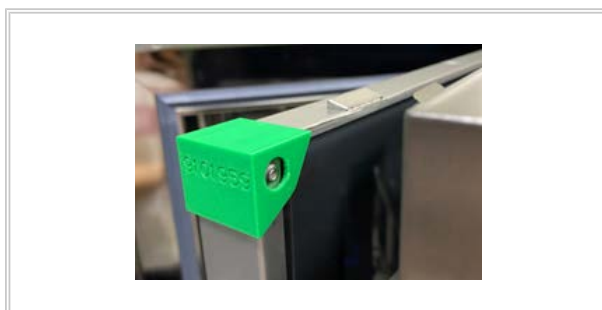
- 5. Close the cabinet door with momentum and pressure to the height of the latch:
NOTICE! The door handle must be at a 90° angle and must not be closed.



- 6. With the "Gauge latch Z direction*Bad* LM4" Item no.: 91.01.960, the locking hook must **not** slide completely behind the latch.



7. **NOTICE!** If the locking hook still slides completely behind the latch, a shim must be removed. See in the document below "Removal of the latch". Repeat the procedure until the locking hook no longer slips.
8. Remove the red "Gauge latch Z direction*Bad* LM4" Item no.: 91.01.960 and place the green "Gauge latch Z direction*Good* LM4" Item no.: 91.01.959 (1.8 mm [5/64 inch]).



9. Close the cabinet door with momentum and pressure to the height of the latch:
NOTICE! The door handle must be at a 90° angle and must not be closed.



10. With the green "Gauge latch Z direction*Good* LM4" Item no.: 91.01.959, the locking hook must slide completely behind the latch.
11. **If the locking hook does not slide completely behind the latch, an additional shim must be installed. See in the document below "Removal of the latch". Repeat the procedure until the locking hook slides completely behind the latch.**



12. Remove the gauge.
13. **If the door handle is difficult to close, an additional shim must be installed.**

Work steps - checking the Z-axis bottom, left

- ✓ The door handle must be at a 90° angle during the complete test/adjustment.
- 1. **WHAT:**
Check the correct setting and/or the closing behaviour of the lower latch.
- 2. **WHERE:**
Lower latch.
- 3. **HOW:**
Use of the red "Gauge latch Z direction*Bad* LM4" Item no.: 91.01.960 and the green "Gauge latch Z direction*Good* LM4" Item. no.:91.01.959.

Use of gauges:

- 4. **NOTICE!** Proceed as for "Use of gauges" for the "Z-axis top, left", but place the two gauges on the lower corner of the latch instead.



- 5. When the cabinet door is correctly adjusted, install the latch cover if necessary.



6. Route the door lighting cable inside the cover of the door retaining bracket.



7. Install the cover of the door retaining bracket at the bottom with a screw. Use an attachment with 3 mm [1/8 inch] hexagon socket for the screw driver.



>> The installation is complete.

Work steps - removal of the latch (if necessary)

- ✓ The unit is switched off and voltage-free.
- ✓ The cooking cabinet door is open.
- 1. Remove the latch cover.
 - Carry out a punch on the latch cover.
 - Tap the punch with a hammer until the latch cover bends open.
 - Remove the latch cover.Use a slot attachment for the screw driver.



- 2. Loosen the screw from the latch.
Use a TX25 attachment for the screw driver.
- 3. Pull out the latch.
NOTICE! Pay attention to the shims when pulling out the latch. These shims are loose and may fall down.
- >> The removal is complete.

Work steps - installation of the latch (if necessary)

1. Adjust the number of shims for adjusting the Z-axis on the left.
NOTICE! For each shim added (Z-axis +0.3 mm [+1/64 inch]) or removed (Z-axis -0.3 mm [-1/64 inch]), the gap between the door latch and the cooking cabinet opening frame changes.



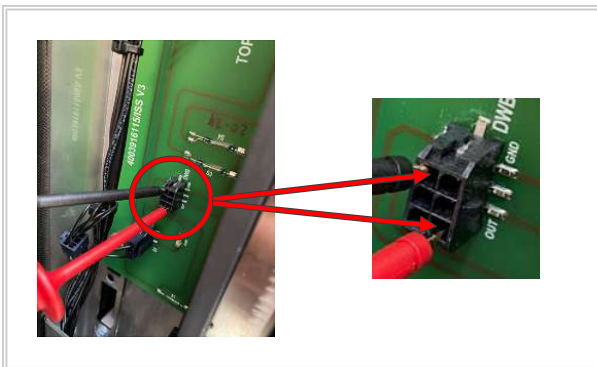
2. Install the latch with shims.
 3. Install the screw.
Tighten the screw with a torque of 4.6 Nm [3.4 lbf ft] an.
Use a TX25 attachment for the torque wrench.
 4. **NOTICE! Do not install the new latch covers until the cabinet door is fully adjusted.**
 5. **NOTICE! Lubricate the latch if necessary.**
- >> The installation is complete.

Work steps - function test Interlock Safety System (ISS)

- ✓ The unit is switched off and voltage-free.
 - ✓ The door adjustment and latch adjustment have been carried out.
 - ✓ Hang the control panel in the parking position.
 - ✓ The door handle must be adjusted as described in the following points.
 - Close the cooking cabinet door
 - Close the door handle until it is 45 mm [1 25/32 inch] between the door edge and the bottom left corner of the door handle
- NOTICE! The locking hooks of the cabinet door must slide completely behind the latches.**



1. Check whether the ISS safety chain is closed:
Check the continuity with the multimeter on the 6-pin plug on the large ISS board (ISS-Main).

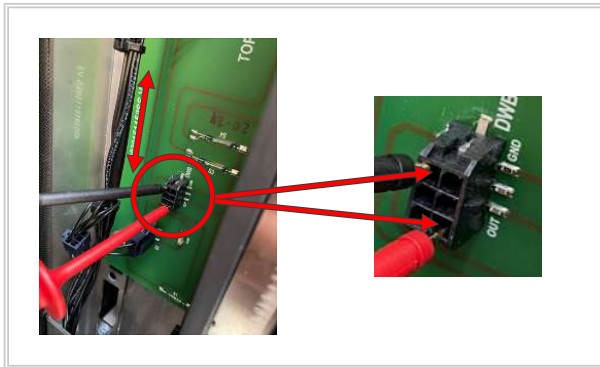


2. The ISS safety chain is closed when continuity is measured with the multimeter.
NOTICE! If the ISS safety chain is open and no continuity is measured, skip the next five points.
3. Connect the 6-pin plug to the ISS-Main board.
4. Install the control panel.
 - > The ISS safety chain is correctly set.
- NOTICE! The function test is completed.**
5. Check the unit for microwave leakage.
WARNING! The unit is energized.

6. Open: Service level -> Microwave -> Leak test -> Component replacement
7. Now carry out the test for microwave leakage.
The values to be measured must not exceed 5 mW/cm^2 .
NOTICE! For more information about microwave leakage, see the installation manual.

>> The function test is completed.

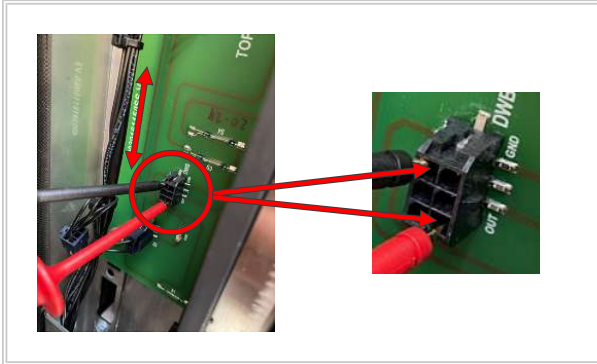
8. Loosen both nuts on the ISS-Main board.
To do this, use an attachment with wrench width 8 for the screw driver.
9. Push the ISS-Main board all the way up.
10. Tighten the two nuts with a torque of 3 Nm [2.21 lbf ft].
For this purpose, use an attachment with wrench width 8 for the torque wrench.
11. Check whether the ISS safety chain is closed:
Check the continuity with the multimeter on the 6-pin plug on the large ISS board (ISS-Main).



12. The ISS safety chain is closed when continuity is measured with the multimeter.
NOTICE! If the ISS safety chain is open and no continuity is measured, skip the next five points.
 13. Connect the 6-pin plug to the ISS-Main board.
 14. Install the control panel.
> The ISS safety chain is correctly set.
NOTICE! The function test is completed.
 15. Check the unit for microwave leakage.
WARNING! The unit is energized.
 16. Open: Service level -> Microwave -> Leak test -> Component replacement
 17. Now carry out the test for microwave leakage.
The values to be measured must not exceed 5 mW/cm^2 .
NOTICE! For more information about microwave leakage, see the installation manual.
- >> The function test is completed.

18. Loosen both nuts on the ISS-Main board.
To do this, use an attachment with wrench width 8 for the screw driver.

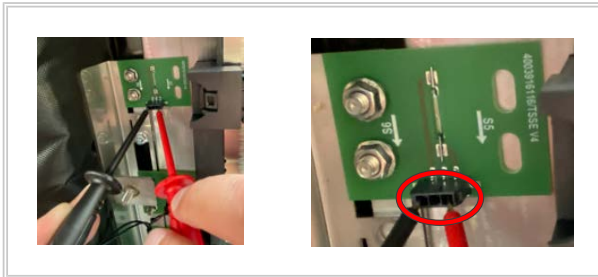
19. Push the ISS-Main board all the way down.
20. Tighten the two nuts with a torque of 3 Nm [2.21 lbf in].
For this purpose, use an attachment with wrench width 8 for the torque wrench.
21. Check whether the ISS safety chain is closed:
Check the continuity with the multimeter on the 6-pin plug on the large ISS board (ISS-Main).



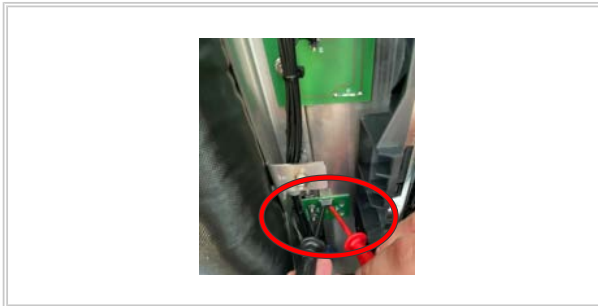
22. The ISS safety chain is closed when continuity is measured with the multimeter.
NOTICE! If the ISS safety chain is open and no continuity is measured, skip the next five points.
23. Connect the 6-pin plug to the ISS-Main board.
24. Install the control panel.
 - > The ISS safety chain is correctly set.
NOTICE! The function test is completed.
25. Check the unit for microwave leakage.
WARNING! The unit is energized.
26. Open: Service level -> Microwave -> Leak test -> Component replacement
27. Now carry out the test for microwave leakage.
The values to be measured must not exceed 5 mW/cm².
NOTICE! For more information about microwave leakage, see the installation manual.
- >> The function test is completed.

Work steps - potential troubleshooting Interlock Safety System (ISS)**If continuity still cannot be measured, proceed as follows:**

1. Unplug the top board.
2. Check for continuity on the top board.



- > If continuity cannot be measured:
 - the door handle adjustment may be incorrect
 - the cabinet door/latch may be incorrectly adjusted
- 3. Unplug the bottom board.
- 4. Check the bottom board for continuity.



- > If continuity cannot be measured:
 - the door handle adjustment may be incorrect
 - the cabinet door/latch may be incorrectly adjusted
- 5. After checking the door handle setting and the cabinet door/latch, carry out a function test again.

If the function test is still not successful, contact RATIONAL Service.