

MI_2432: Lid Removal and installation



iVario Pro L, XL



60 min



Standard, hose clamp pliers for click clamps



21/07/2025

Topic

The information describes the removal and installation of the lid.

Affected product/accessories

iVario Pro

- L
- XL

Required components

- L : 24.04.056P lid
- L P : 24.04.297P lid and 24.04.880P maintenance flap
- XL : 24.04.298P lid
- XL P : 24.03.581P lid and 24.04.046P maintenance flap

General information

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.

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 cooking system 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.

NOTICE

Damage to the cable trunk and the control panel when removing the control panel

The control panel is connected to the installation compartment by a cable trunk.
Remove the control panel carefully in order not to damage the cable trunk.
Put down the control panel carefully and protect it against scratching.

NOTICE

Incorrect objects for opening the control panel

Do not use any sharp or pointy objects to press the control panel upwards.
This could damage the housing and gasket.

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.

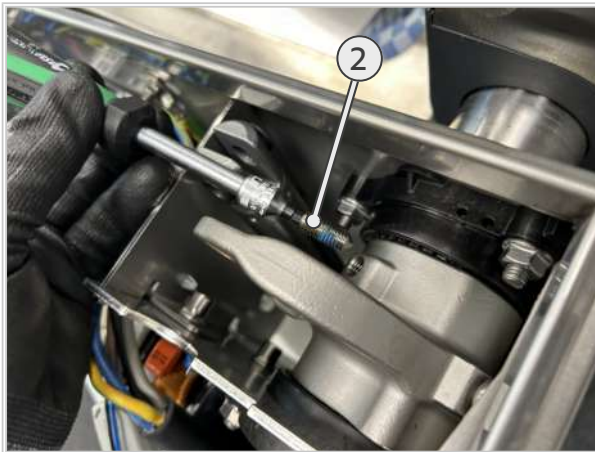
The technician is responsible for complying with these regulations.

Work steps – Removal - Disconnect the lid

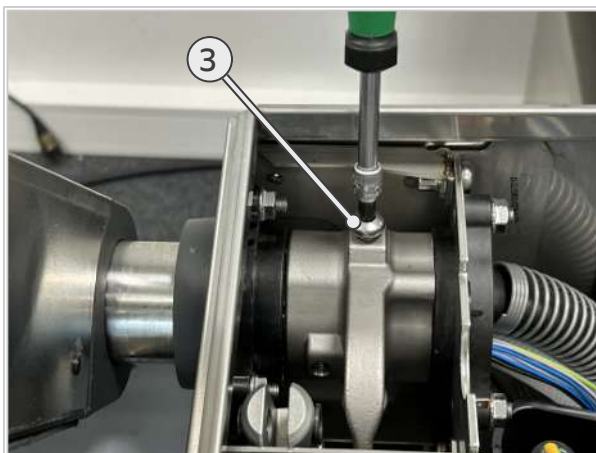
- ✓ The lid is fully open.
 - ✓ The unit is switched off and disconnected from the mains.
 - ✓ A second person is ready to hold the vehicle.
 - ✓ The control panel is removed (not disconnected) and set aside safely.
1. Have a second person hold the lid and carefully remove the axle (1). Put the stroke cylinder rod to one side.



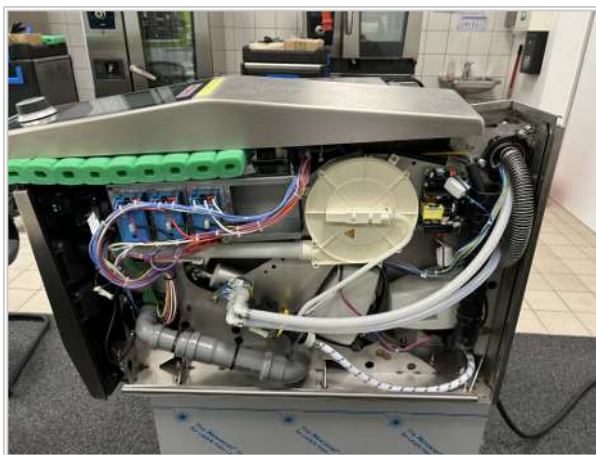
2. Loosen the grub screw (2) and unscrew it completely.



3. Slowly lower the lid until you reach the screw (3).
4. Loosen the screw (3), you do not need to remove it.



5. Place the control panel on the unit as shown and lower the lid. If necessary, place a cloth under the lid to make it easier to open it again.



NOTICE! In the following, individual work steps differ for unit versions with and without pressure option. This is then explicitly pointed out.

Work steps - Removal - Loosening connections - iVario with pressure option

The following description only applies to iVario with pressure option.

1. Loosen the two screws (4) from the service lid (5).

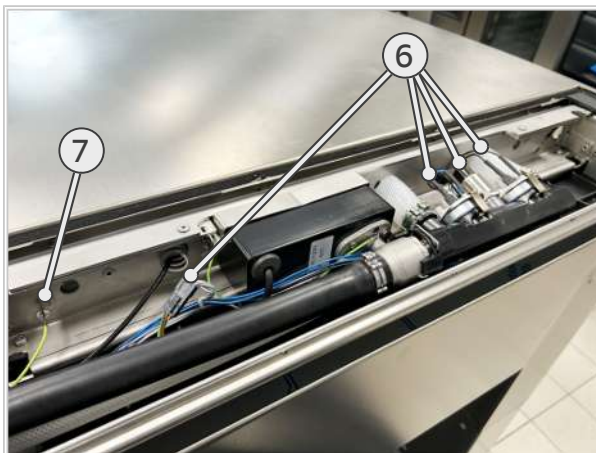


2. Remove the service flap, lever it out of the lid via the rear edge.



3. Disconnect the connections (6) from the pressure sensor, the two safety pressure switches and the ball valve.

4. Disconnect the earthing cable (7).



5. Remove the hose clamp from the pressure hose, using a hose clamp pliers for click clamps if possible. Alternatively, you can use a conventional pipe wrench.



6. Pull the pressure hose off the ball valve.



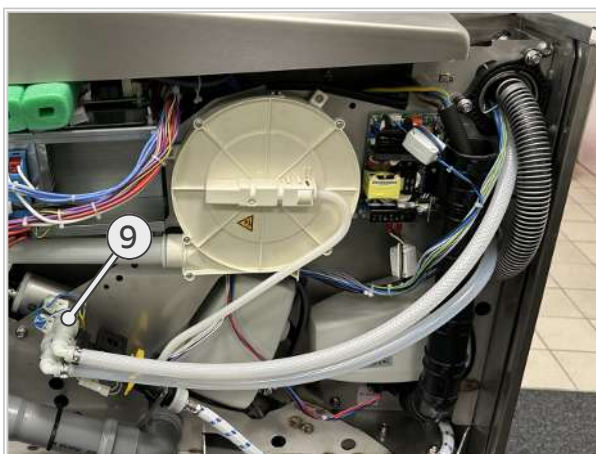
7. Pull the disconnected connections and the pressure hose out through the media feed-through in the direction of the electrical compartment.
- > Only the water pipe and the cable of the core probe are routed through the media feed-through.



8. Unplug the plug (8) from the core probe from the PCB.



9. Disconnect the water line (9).



10. Pull the cable from the core probe and the water pipe through the media feed-through to the side of the lid.



Work steps - Removal - Loosen connections - iVario without pressure option

The following description only applies to iVario without pressure option.

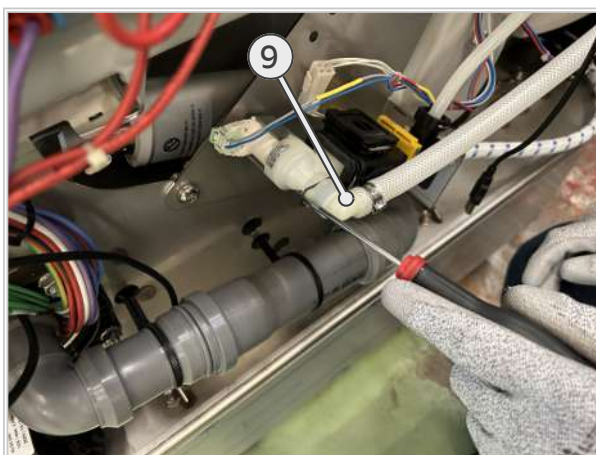
1. Remove the hose clamp from the pressure hose, using a hose clamp pliers for click clamps if possible. Alternatively, you can use a conventional pipe wrench.
2. Pull off the pressure hose.



3. Unplug the plug (8) from the core probe from the PCB.



4. Disconnect the water line (9).

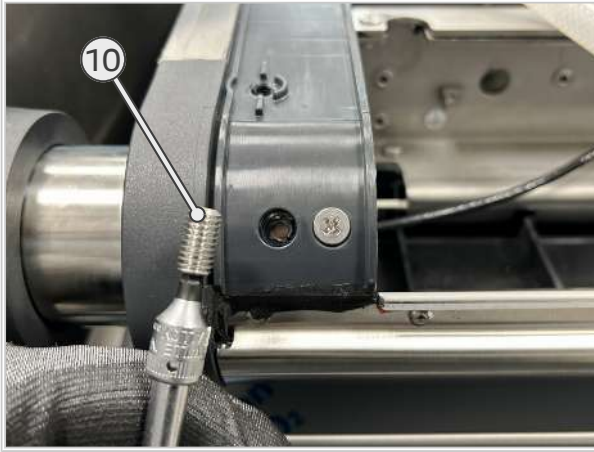


- > The disconnected water line and the cable will be pulled out later towards the lid side, the description of this will follow later.

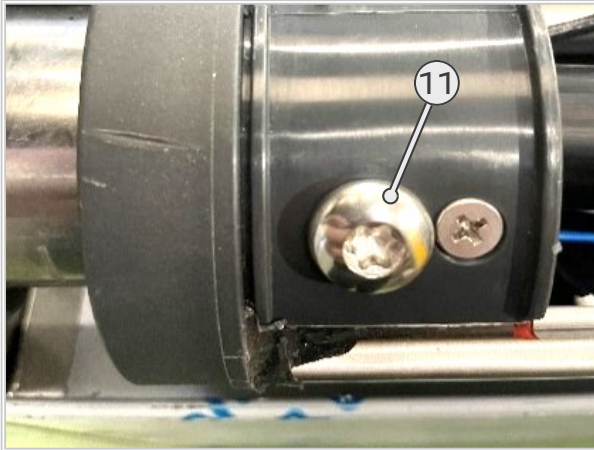
Work steps - Removal - Loosening the lid - iVario with pressure option

The following description only applies to iVario with pressure option.

1. Remove the grub screw (10).



2. Insert a cap screw (11) at this point to fix the key.
NOTICE! The key has a thread, the cap screw should only fix the key and not touch the lid axle!



3. Alternatively, you can reinsert the key into the groove at the side during assembly.



Work steps - Removal - Loosening the lid - iVario without pressure option

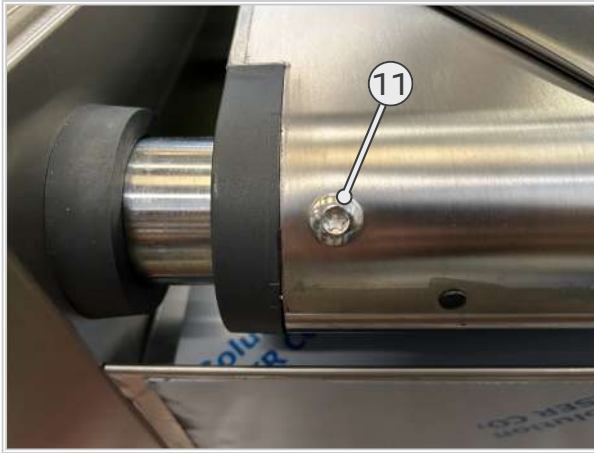
The following description only applies to iVario without pressure option.

1. Remove the grub screw (10).



2. Insert a cap screw (11) at this point to fix the key.

NOTICE! The key has a thread, the cap screw should only fix the key and not touch the lid axle!



3. Alternatively, you can reinsert the key into the groove at the side during assembly.



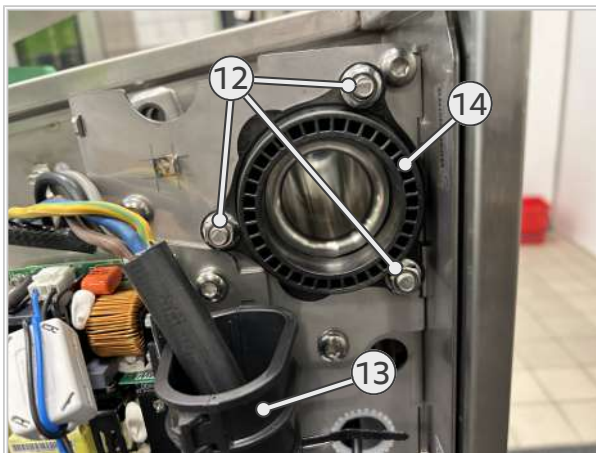
Work steps - Removal - Loosen bearing - iVario with pressure option

The following description only applies to iVario with pressure option.

1. Remove three nuts (12) from bearing.
2. If necessary, also remove the power cable guide (13).

NOTICE! The power cable guide (13) may also be made of metal, depending on the production date.

3. Remove the lid bearing (14).



Work steps - Removal - Loosen bearing - iVario without pressure option

The following description only applies to iVario without pressure option.

1. Remove three nuts (12) from bearing.
2. If necessary, also remove the power cable guide (13).

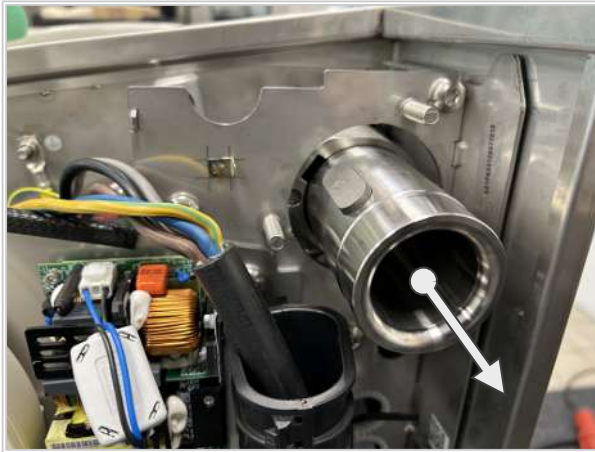
NOTICE! The power cable guide (13) may also be made of metal, depending on the production date.

3. Remove the lid bearing (14).

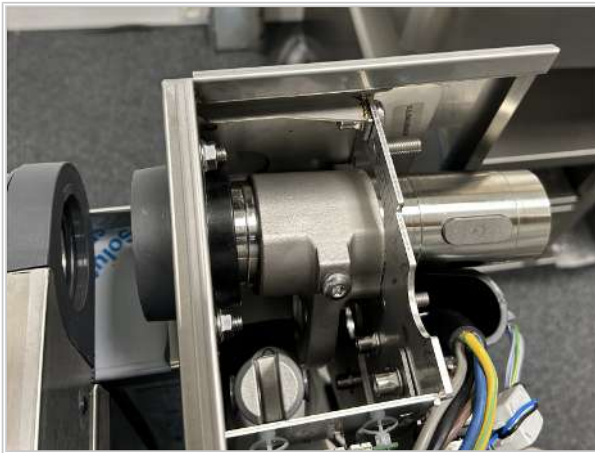
Work steps - Removal - Removing the lid axle - iVario with/without pressure option

1. iVario with pressure option: Drive out the lid axle from the side of the lid towards the electrical compartment using a pin punch and a hammer.
2. iVario without pressure option: Lever out the lid axle towards the electrical compartment.

NOTICE! If the lid axle is difficult to remove, spray some penetrating oil into the guide area. Move the lid up and down slightly while trying to pull out the shaft.



3. Pull out the lid axle until the lid is free.



If the lid axle is in a clean and movable condition, you do not necessarily have to remove it completely.

If the lid axle is dirty and difficult to move, remove the lid axle and clean/lubricate it, see the last chapter.

Work steps - Removal - Removing the lid - iVario with/without pressure option

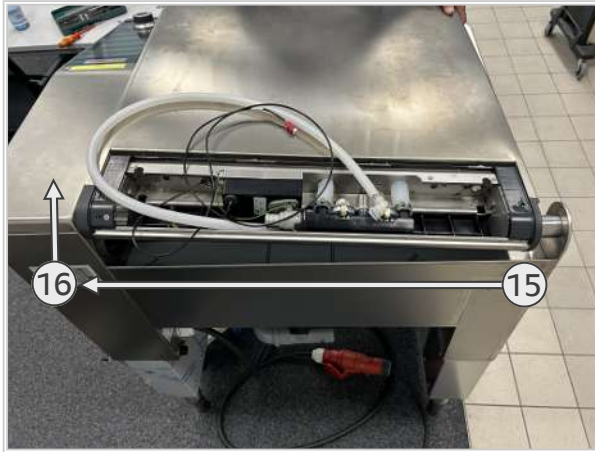
- ✓ A second person is ready to hold the vehicle.
- 1. iVario without pressure option: Pull the hoses and cable out of the core probe as shown.



From here onwards, the following description is identical for iVario with and without pressure option. A unit with pressure option is shown.

- 2. Push the lid as far as possible in the direction of the electrical compartment, see arrow (15).
- 3. Lift the lid on the left side to come out of the right axle (viewed from the rear), see arrow (15) and (16).

4. Lift the lid from the unit.



> The lid removal is complete.

Work steps - Installation - Installing the lid - iVario with/without pressure option

Installation always takes place in reverse order. You will find useful information on this below.

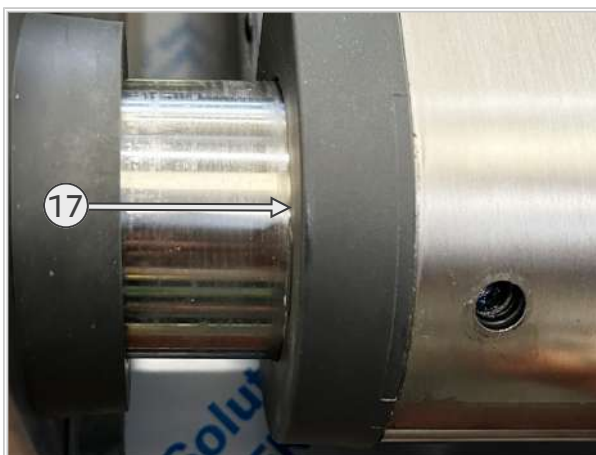
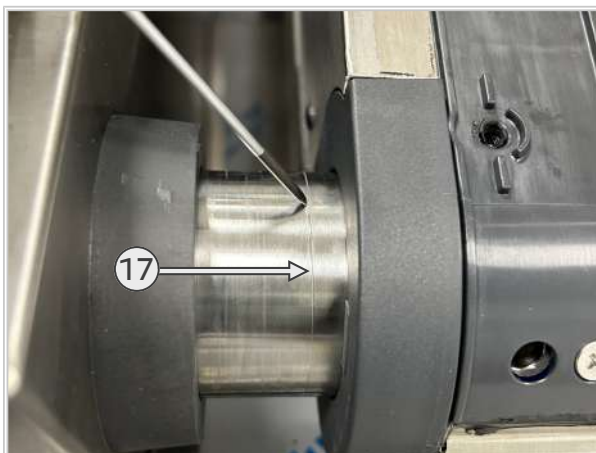
✓ The lid with key and screw (Torx) is ready.

1. Position the lid in reverse order over the outer axle in the unit.

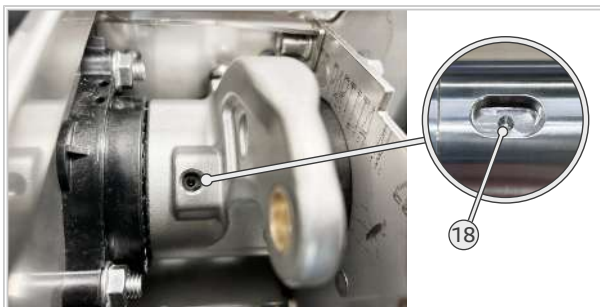
Work steps - Installation - Installing the lid axle - iVario with/without pressure option

1. Insert the lid axle with the key until it mechanically abuts in the lid.
If necessary, lift the lid slightly to position the lid axle in the lid.

2. Check the position of the lid axle in the lid. The groove **(17)** must not be visible, it must be flush with the lid.



3. Position the swivel lever so that the mark **(18)** is aligned with the hole in the swivel lever.

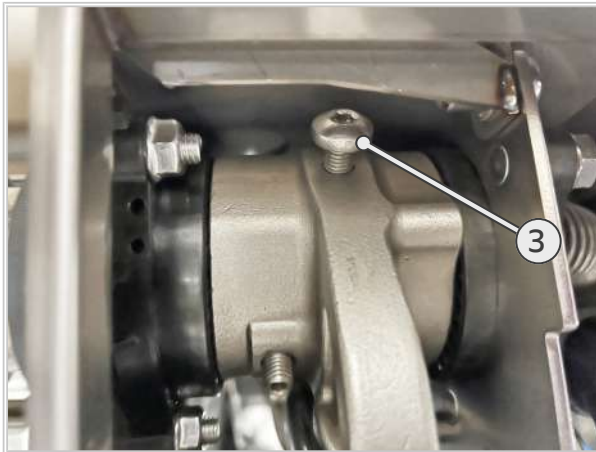


NOTICE! Use a medium-strength liquid screw lock for positions (2) and (3) below!

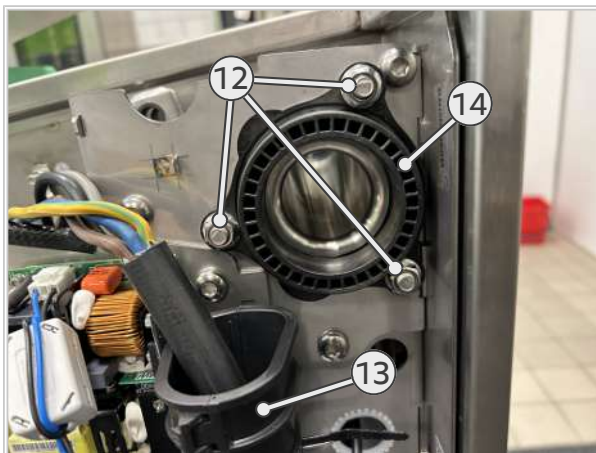
4. Insert the threaded pin with tip (2) and tighten it.
The threaded pin with tip precisely positions the lid axle in the unit.



5. Tighten the screw (3).



6. Refit the lid bearing (14), tighten the three nuts (12) to 20 Nm.



NOTICE! Use a medium-strength liquid screw lock at position (10) below!

7. Remove the cap screw, reinsert the grub screw (10) and tighten it.



8. Reassemble the unit in reverse order.
 - > The lid installation is complete.

Clean and re-grease the lid axle / lid bearing

If the lid axle is difficult to move and heavily soiled, the lid axle must be removed, cleaned and regreased.

1. Remove the lid axle.

2. Clean the lid axle and both lid bearings. In particular the lid bearing with seal on the lid side.



3. Only use approved white fat for lubricating.



4. Lubricate the bearing with seal up to the edge shown (19).



>> Cleaning and preparation is complete.

