

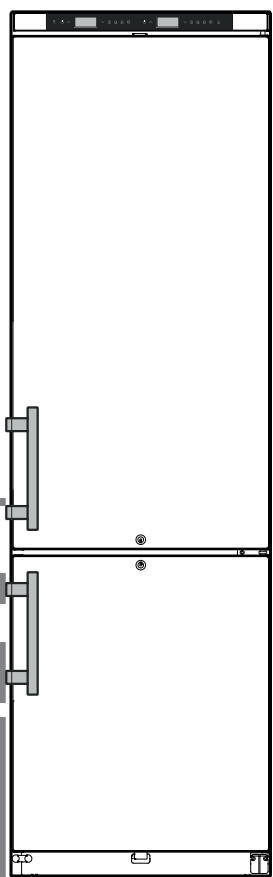
# Original operating instructions

Combined refrigerator-freezer

Read the operating instructions before switching on for the first time

Page 14

EN



LCv 4010

7085 860-01

**LIEBHERR**

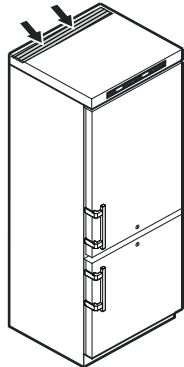
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## Priority of warnings




<b>⚠ DANGER</b>	identifies a situation involving direct danger which, if not obviated, may result in death or severe bodily injury.
<b>⚠ WARNING</b>	identifies a dangerous situation which, if not obviated, may result in death or severe bodily injury.
<b>⚠ CAUTION</b>	identifies a dangerous situation which, if not obviated, may result in minor or medium bodily injury.
<b>NOTICE</b>	identifies a dangerous situation which, if not obviated, may result in damage to property.
<b>Note</b>	identifies useful information and tips.

## Safety instructions and warnings

- **WARNING:** do not seal ventilation openings on the appliance housing or enclosure. 
- **WARNING:** only use the mechanical devices or other aids recommended by the manufacturer to help speed up the defrosting process.
- **WARNING:** do not damage the refrigerant circuit.
- **WARNING:** do not use any electrical devices in the refrigerator compartment which do not comply with the design recommended by the manufacturer.
- **WARNING:** the mains cable must not be damaged while installing the appliance.
- **WARNING:** multi-sockets or distributor strips and other electronic devices (such as halogen transformers) must not be positioned and operated at the rear of appliances.
- **WARNING:** this appliance must be secured as described in the operating instructions to rule out any potential risks due to its instability.
- This appliance can be used by children of 8 years old and over, and also by persons with restricted physical, sensory or mental capacity or lack of experience and knowledge, if they are supervised or have been instructed on safe use of the appliance and understand the resulting risks. Children must not be allowed to play with the appliance. Cleaning and user maintenance must not be carried out by children without supervision.

- To prevent injury and damage to property, the appliance should only be installed by two people.
- After unpacking it, check the appliance for signs of damage. Contact the supplier if it is damaged. Do not connect the appliance to the mains power supply.
- Avoid prolonged skin contact with cold surfaces (e.g. chilled/frozen products). If necessary, take safety action (e.g. gloves).
- All repairs and work on the appliance may only be carried out by customer service personnel or other trained personnel. The same applies to changing the mains power cable.
- Only carry out repair and other work on the appliance when the mains plug has visibly been disconnected.
- Only install, connect and dispose of the appliance as described in these operating instructions.
- In the event of a fault, pull out the plug or switch off the fuse.
- When disconnecting the appliance from the mains, pull on the plug. Do not pull on the cable.
- Do not allow naked flames or ignition sources to enter the appliance.

## Symbols on the appliance

	The symbol can be located on the compressor. It refers to the oil in the compressor and indicates the following danger: swallowing or inhaling can be fatal. This is only relevant for recycling. There is no danger in normal operation.
	Warning about inflammable substances.
	A sticker to this effect may be applied to the rear of the appliance. It refers to the foampadded panels in the door and/or the housing. This is only relevant for recycling. Do not remove the sticker.

## Intended use

This universal laboratory refrigerator for professional use is suitable for storing products at temperatures between 3°C and 16°C (refrigerator compartment), -9°C and -30°C (freezer compartment).

Typical products for storage include research samples, reagents, laboratory inventory, etc.

For the storage of valuable or temperature-sensitive substances or products the use of an independent, constantly monitoring alarm system is necessary.

This alarm system must be designed so that each alarm status is detected immediately by an authorised person who can then take appropriate action.

## Foreseeable incorrect use

Do not use the appliance for the following applications:

- Storage and cooling of
  - chemically unstable, inflammable or caustic substances
  - blood, plasma or other bodily fluids for the purposes of infusion, application or insertion into the human body.
- Use in potentially explosive atmospheres.
- Use outdoors or in areas where it is exposed to splash water or damp conditions.

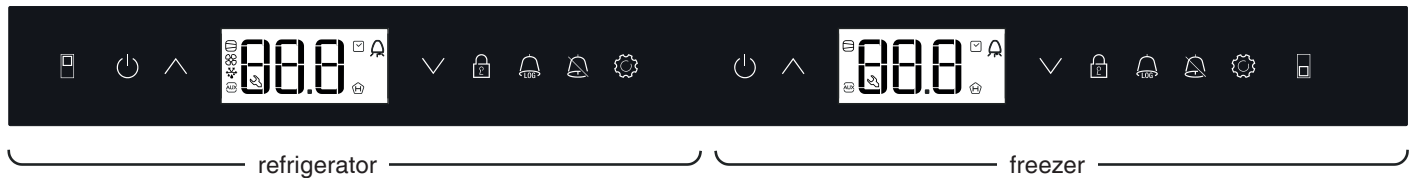
Incorrect use of the appliance will result in damaging or spoiling the goods stored in it.

## Declaration of conformity

The refrigerant circuit has been tested for leaks. The appliance complies with the relevant safety regulations and EU Directives 2006/42/EG, 2014/30/EU, 2009/125/EG and 2011/65/EU.









## Operating and control elements



### General description

Time or temperature information that appears after the word **Display =** are sample values.


The following sections explain how the refrigerator compartment is operated. Operation of the freezer compartment is identical to this.

-  On/Off button (switching the appliance on and off)
-  Selection buttons
-  Keypad lock
-  Button for calling up stored alarm events
-  Audible alarm Off button
-  Enter button


### Switching the appliance on and off

Connect the appliance to the mains. Display = **OFF**.

#### Switching the appliance on

Press  for approx. 5 seconds - Display = **ON**.


No alarm is displayed or sounded when the appliance is switched on for the first time.

If the appliance is disconnected from the mains for a long time after it has been switched on for the first time and if the temperature inside the appliance rises above the upper alarm limit, this will be detected as a fault by the electronic control system ( appears in the display).

When the appliance is switched on again, this display must be reset as shown below.

Press .


Press  +  for 5 seconds. Display = **r E S**

The  LED will now light up permanently.













Press  for 5 seconds.

The electronic control system will switch back to normal operating mode.


#### Switching the appliance off


Press  for approx. 5 seconds - Display = **OFF**


### Symbols in the display

-  Compressor is running
-  LED flashing - refrigeration unit switches on after a delay. The compressor will start automatically after the pressure in the refrigerant circuit has equalised.
-  Fan is running
-  Appliance is defrosting
-  Temperature display via product sensor is activated
-  LED flashing and **E T C** appears in the display. The real time clock must be reset.
-  The  display means that the power supply and interior temperature of the appliance are recorded.
-  If  flashes in the display, there has either been a power failure or the temperature in the appliance exceeded the permissible range.
-  Alarm function
-  The appliance has suffered a fault. Contact the customer service department.

### Setting the temperature

Press  for 1 second. The temperature display flashes.

To increase the temperature (warmer): press button .

To reduce the temperature (colder): press button .

Press  again.

The desired temperature setting is saved.

#### Note

The temperature in the warmest area of the interior may be higher than the temperature setting.

If the door is left open for a lengthy period, the temperature in the appliance's compartments may rise dramatically.

### Temperatur display mode

The temperature display can be switched between degrees Celsius and degrees Fahrenheit. Factory setting is degrees Celsius.


Press  for 5 seconds. Display = **r<sup>1</sup>S**

Press . Display = **|**


Use button  or  to select the desired setting.



0 = °C    1 = °F

Press . Display = **r<sup>1</sup>S**


Press  for 5 seconds. The electronic control system will switch back to normal operating mode.

## Door open alarm

When the door is opened, the LED  lights up and the temperature display begins to flash.

When the door has been left open for more than 60 seconds, the LED  begins to flash, and  and the temperature indication flash alternately in the display.

The audible warning signal sounds (unless the audible warning signal function has been deactivated).

If the door has to stay open for longer in order to insert items to be cooled, cancel the audible warning signal by pressing button .



## Setting the delay time for the door open alarm

The time before the audible warning signal sounds after the door has been opened can be adjusted.

Press  for 5 seconds. Display = 

Press  until  appears in the display.

Press . Display = |     Setting range = 1 - 5 minutes.


Use button  or  to select the desired setting.

Press . Display = 

Press  for 5 seconds.

The electronic control system will switch back to normal operating mode.

## Audible warning signal settings

The audible warning signal will be muted for the current alarm after the button  has been pressed. Complete the following steps if you want the audible warning signal to reactivate automatically.

Press  for 5 seconds. Display = 

Press  until  appears in the display.

Press . Display = |

Press . Display = |



Press . Display = 

Automatic reactivation of the audible warning signal is now active.

The time before the audible warning signal sounds again must be set.

Press . Display = 

Press . Display = |     Setting range = 1 - 120 minutes.

Use button  or  to select the desired setting.


Press . Display = 



Press  for 5 seconds.

The electronic control system will switch back to normal operating mode.



## Deactivating the audible warning signal function

The audible warning signal function can be completely deactivated if necessary.

Press  for 5 seconds. Display = 



Press  until  appears in the display.


Press . Display = |

Use button  or  to select the desired setting.

0 = audible warning signal function activated

1 = audible warning signal function deactivated

Press . Display = 

Press  for 5 seconds.



The electronic control system will switch back to normal operating mode.


## Alarm test

This test checks the function of the internal and any external connected alarm device.

The appliance does not stop its refrigerating function during this test.


Press  +  for 5 seconds.

- The display will change to a temperature value of 0.2°C below the set upper alarm limit.
- The temperature value will now rise by 0.1°C every 2 seconds.
- When the upper alarm limit is reached,  will appear in the display. An external alarm unit connected to the floating alarm output will now be activated.
- The temperature value will continue to rise up to 0.2°C above the upper alarm limit.
- The same process will take place automatically for the lower alarm limit.  will appear in the display.



The LED  will be lit during the test.

The electronic control system will switch back to normal operating mode.

## Cancelling the test prematurely

Press  for 5 seconds.

### Note

If the values of the upper and lower alarm limit (**AL** and **AH** in the section entitled "**Adjusting the alarm parameters**") are set to **0**,  and  will appear in the display during this test.

### Note

For a realistic temperature alarm test, an additional delay time (60 minutes) applies as well as the adjustable alarm parameters AL, AH and Ad.


After a door has been opened or a defrosting process, the alarm delay Ad will be extended by an additional delay time (60 minutes). This additional delay time must not be changed.

This means that a temperature alarm will appear later after a door has been opened or a defrosting process than is actually set using parameter Ad.



## Alarm messages

### 1. LED flashes in the display

If  appears in the display, the appliance has a fault. Consult your nearest customer service point.

### 2. LED flashes in the display; the display reads HI or LO

The interior is too warm (HI) or too cold (LO).

The audible warning signal sounds (unless the audible warning signal function has been deactivated).

#### Note

The alarm parameters can be adjusted. See **Adjusting the alarm parameters**.

### 3. HA / HF / flashes in the display

There has been a power cut (HF) of some length or the interior was too warm or too cold (HA) during a certain period of time.

Up to three alarm events can be stored and called up.

## Adjusting the alarm parameters

The alarm limits (difference to the set temperature) and the alarm delay (delay until alarm sounds) can be adjusted.

#### Note

After a door has been opened or a defrosting process, the alarm delay Ad will be extended by an additional delay time (60 minutes). This additional delay time must not be changed.



This means that a temperature alarm will appear later after a door has been opened or a defrosting process than is actually set using parameter Ad.

Press  for 5 seconds. Display = r<sup>1</sup>5


Press  until rL appears in the display.


rL = Lower alarm limit

Press . Display = temperature difference in °C



Use button  or  to select the desired setting.

#### Set positive values only.

Press . Display = rL

Press . Display = rH Upper alarm limit

Press . Display = temperature difference in °C


Use button  or  to select the desired setting.

#### Set positive values only.

Press . Display = rH

Press . Display = rD

Press . Display = alarm delay in minutes

Use button  or  to select the desired setting.



Press . Display = rD

Press  for 5 seconds.

The electronic control system will switch back to normal operating mode.

## Calling up stored alarm events and reading the temperature progression

Press . Display = HAn

Scroll through the list using  or .

HAn Number of temperature alarms

HA Last temperature alarm

HA | Last temperature alarm but one

HA<sup>2</sup> Temperature alarm before HA |

HF n Number of power cuts

HF Last power cut


HF | Last power cut but one


HF<sup>2</sup> Power cut before HF |

r t Period in hours in which the maximum and minimum interior temperatures were measured

r H Maximum (highest) measured temperature

r L Lowest measured temperature



Select the required item using the  button. Press this button again to return to the list.


You can exit the menu at any time by pressing  for 5 seconds.

If no button is pressed within 60 seconds, the electronic control system switches back automatically.

## Resetting the stored alarm events HAn

Press . Display = HAn

Press  +  for 5 seconds. Display = r<sup>1</sup>5.

Press  for 5 seconds.

The electronic control system will switch back to normal operating mode.

## Resetting the recorded temperature progression rt


Press . Display = HAn

Press the button  or  until r t appears in the display.

Press . Display = 0 - 999

Press  for 5 seconds. Display = r<sup>1</sup>5.

The values for r H and r L (highest and lowest measured interior temperature) are then reset to the current interior temperature.


Press  for 5 seconds.

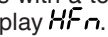
The electronic control system will switch back to normal operating mode.

## Example of an alarm query



Situation: HA/HF/  flashes in the display.

Press . Display = 

Press . Display = 



There has not been an alarm status with a too high or too low temperature. You must switch to display .



Press . Display = 



Press  until  appears in the display.



Press . Display =  1 power failure has occurred.



Press . Display = 



Press . Display =  Last power failure.

Press . Display =  (year)

Press . Display =  (month 1-12)


Press . Display =  (day 1-31)

Press . Display =  (hour 0-23)

Press . Display =  (minute 0-59)

Press . Display =  (period of time in hours)

Press  +  for 5 seconds. Display = 

The  LED will now light up permanently.

**HA/HF** is cancelled in the display.

The electronic control system is now ready for the next alarm.

Press  for 5 seconds.

The electronic control system will switch back to normal operating mode.

## Calibrating the control sensor



(standard sensor for temperature control)

Possible tolerances of the control sensor (the displayed temperature compared to the actual interior temperature) can be offset with this function.

Press  for 5 seconds. Display = 


Press  until  appears in the display.

Press . Display = correction value set at the factory

Use button  or  to increase or decrease the correction value in 0.1°C increments.

Press . Display = actual (corrected) interior temperature

Press . Display = 

Press  for 5 seconds.



The electronic control system will switch back to normal operating mode.


## Product sensor (available accessory)



The temperature may be measured or recorded at any point in the interior using the product sensor.

- Connect sensor (see section entitled **External alarm**)

### Activating the sensor


Press  for 5 seconds. Display = 

Press . Display = 


Press . Display = 


Press . Display = 

Press . Display = 

Press  for 5 seconds.

The electronic control system will switch back to normal operating mode.

If  appears in the display, the product sensor has not been activated.

If  appears in the display, the product sensor has not been connected, or is faulty.



### Calibrating the product sensor

Possible tolerances of the product sensor (the displayed temperature compared to the actual interior temperature) can be offset with this function.

Press  for 5 seconds. Display = 


Press  until  appears in the display.

Press . Display = 

Use button  or  to increase or decrease the correction value in 0.1°C increments.

Press . Display = actual (corrected) product sensor temperature

Press . Display = 



Press  for 5 seconds.



The electronic control system will switch back to normal operating mode.


### Switching the temperature display between control sensor and product sensor



Press  for 5 seconds. Display = 

Press  until  appears in the display.

Press . Display =  (control sensor)

Press . Display =  (product sensor)

If the product sensor is activated,  appears in the display.

Press . Display = 

Press  for 5 seconds.

The electronic control system will switch back to normal operating mode.



## Keypad lock



The keypad lock ensures that no unintentional changes are made to the electronic control system.


### Setting a PIN code for the keypad lock function


Press  for 5 seconds. Display = r<sup>1</sup>5

Press  until P | appears in the display.

Press . Display = |

Use button  or  to choose a PIN code between 1 and 999.

Press . Display = P |

Press  for 5 seconds. The electronic control system will switch back to normal operating mode.

### Activating the keypad lock

Press  for 5 seconds. Display = |

Use button  or  to select the PIN code.

Press . Display = |0c

All buttons except  and  are locked.

If an incorrect PIN code is entered, the electronic control system switches back to normal operation without activating the keypad lock.

### Deactivating the keypad lock

Press  for 5 seconds. Display = |

Use button  or  to select the PIN code.

Press . Display = 0r1

All functions are enabled.

If an incorrect PIN code is entered, the keypad lock remains active.


## Changing the network address


When connecting several appliances via the RS485 interface, each appliance must have its own network address.


Press  for 5 seconds. Display = r<sup>1</sup>5

Press  until H| appears in the display.

Press . Display = |

Use button  or  to change the network address (1-207).

Press . Display = H|

Press  for 5 seconds. The electronic control system will switch back to normal operating mode.

## Resetting the parameters to factory settings

The alarm limits and sensor calibration values can be reset to the factory settings using this function.

Pull out the mains plug.

Keep  pressed and connect the mains plug.

Display = 6r1

Press . Display = 5t d

The electronic control system will switch back to normal operating mode.

## Setting the real time clock



The real time clock is preset (CET). For a different time zone, the time must be adjusted manually.


Press  for 5 seconds. Display = r<sup>1</sup>5


Press . Display = t c




Press . Display = 900 (year)

Press . Display = 00


Set the year by pressing the   buttons. Press .

Press . Display = 100 (month 1-12)


Press . Display = 00

Set the month by pressing the   buttons. Press .


Press . Display = 100 (day 1-31)




Press . Display = 00


Set the day by pressing the   buttons. Press .


Press . Display = 100 (days of the week)

(1 = Monday, 7 = Sunday)


Press . Display = 00


Set the day of the week by pressing the   buttons. Press .




Press . Display = h00 (hour 0-23)


Press . Display = 00

Set the hour by pressing the   buttons. Press .

Press . Display = r00 (minute 0-59)

Press . Display = 00

Set the minutes by pressing the   buttons. Press .

Press  for 5 seconds. The electronic control system will switch back to normal operating mode.

When t c appears in the display, the real time clock must be reset.

## Conversion from summer to winter time


Conversion to summer time is carried out automatically by the electronic control system on the last Sunday in March at 2 o'clock in the morning.

Conversion to winter time is carried out automatically by the electronic control system on the last Sunday in October at 2 o'clock in the morning.

In order to enable the new time, the appliance must be switched off and on after each of the times specified above.

## Enabling/disabling automatic conversion from summer to winter time

Press  for 5 seconds. Display = r<sup>1</sup>5


Press  until d5t appears in the display.

Press . Display = |

Use button  or  to select the desired setting.

0 = deactivated 1 = activated

Press . Display = d5t

Press  for 5 seconds. The electronic control system will switch back to normal operating mode.

## Cleaning

### **⚠ WARNING**

Before cleaning, always disconnect the appliance from the mains. Pull out the plug or switch off the fuse.

### **⚠ WARNING**

Risk of electrostatic discharge.  
Only clean plastic parts with a damp cloth!

### **⚠ CAUTION**

Risk of damage to the appliance components and risk of injury due to hot steam.

Do not use steam cleaning equipment to clean the appliance.

### **NOTICE**

All surfaces in the appliance must be cleaned at regular intervals!

- Clean the inside, equipment parts and outer walls with lukewarm water and a little detergent. Do not use chemical solvents or any cleaning agents containing sand or acid.
- To avoid short-circuits, ensure no cleaning water penetrates into the electrical components when cleaning the appliance.
- Dry all parts well with a cloth.
- The dust should be removed from the refrigeration unit and heat exchanger - metal grid at the back of the appliance - once a year.
- Do not damage or remove the type plate on the inside of the appliance. It is very important for servicing purposes.

## Defrosting

### **Refrigerator compartment**

The refrigerator compartment defrosts automatically.

### **Freezer compartment**

After the appliance has been in operation for some time, a layer of frost or ice will form on the inside walls. This increases energy consumption. You should therefore defrost the appliance regularly.

- To defrost, switch the appliance off.
- Remove the drawers.
- Transfer items to other appliances.
- Leave the door of the appliance open while defrosting. After defrosting mop up the remaining water with a cloth and clean the appliance.

## Shutting your appliance down

If the appliance is left empty for a lengthy period, it must be switched off, defrosted, cleaned and dried and the door is to be left open to prevent mould formation.

## Disposal notes

The appliance contains reusable materials and should be disposed of properly - not simply with unsorted household refuse. Appliances which are no longer needed must be disposed of in a professional and appropriate way, in accordance with the current local regulations and laws.



Do not damage the refrigerant circuit of an appliance that is no longer needed during its disposal.

This appliance contains inflammable gases in the refrigerant circuit and insulation foam.

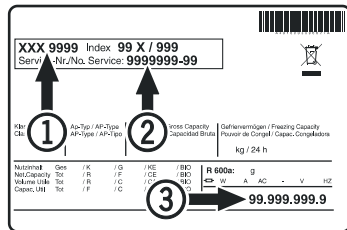
Your local council or a waste disposal contractor can provide information about how to dispose of the appliance correctly.

## Malfunctions

You may be able to rectify the following faults by checking the possible causes yourself:

- **Appliance does not function:**
  - Is the appliance switched on?
  - Is the plug correctly fitted in the mains socket?
  - Is the fuse intact?
- **The temperature is not low enough:**
  - Is the temperature setting correct (see "Setting the temperature")?
  - Does the separately installed thermometer show the correct reading?
  - Is the ventilation system working properly?
  - Is the appliance set up too close to a heat source?
- **Temperature alarm test does not work as required.**
  - See „Alarm test“ and „Adjusting the alarm parameters“

If none of the above causes apply and you cannot rectify the fault yourself, contact the nearest customer service department stating the type designation ①, service number ② and appliance number ③ as indicated on the type plate.



The position of the type plate is shown in the section entitled **Description of the appliance.**

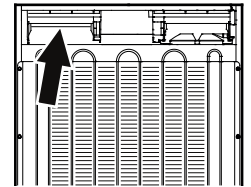
## Possible error messages in the display

Error code	Error	Action
E0, E1, E2, rE	Temperature sensor defective	Contact the customer service department
EE, EF	Electronic control system error	Contact the customer service department
dOr	Appliance door open for too long	Close appliance door
HI	Temperature inside appliance too high (too warm)	Check that the door has been closed properly. If the temperature does not drop, contact the customer service department.
LO	Temperature inside appliance too low (too cold)	Contact the customer service department
Etc		Reset the real time clock (see "Setting the real time clock")
HF, HA	There has been a power cut of some length or the interior was too warm or too cold during a certain period of time.	See <b>Calling up stored alarm events and reading the temperature progression</b>
AFr	Temperature around the product sensor < 0°C	Contact the customer service department

## External alarm

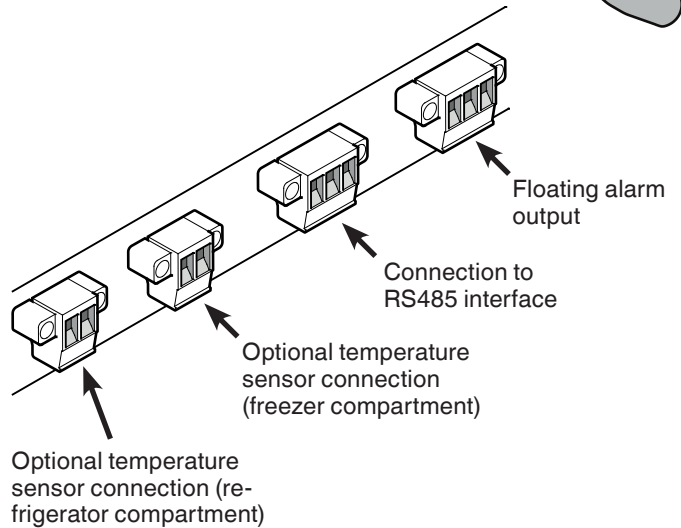
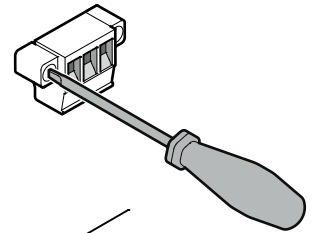
There are various connection options at the back of the appliance.

**The appliance may only be connected to an external alarm device by trained personnel.**



### Note

The connectors are secured with screws. To remove the connectors, undo the left and right screws.



### Floating alarm output

These three contacts can be used to connect the appliance to an optical or acoustic alarm device. The connection is designed for a maximum of **42 V/8 A DC** from a safety extra-low voltage (SELV) source (**minimum current: 150 mA**).

### Notice

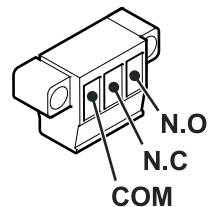
**When supplying mains voltage to the floating alarm contact, the technical safety requirements of standard EN 60335 will not be satisfied.**

### N.O

Connection for a visual warning light or an acoustic alarm signal.

### N.C

Connection for a control lamp to indicate that the appliance is in normal mode.



### COM

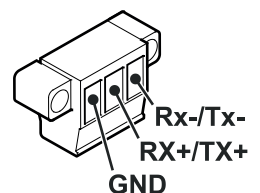
External power supply unit, 42 V/8 A DC maximum, Minimum current: 150 mA

### RS485 interface

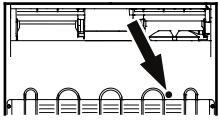
**Rx- / Tx-** Send/Receive data cable (negative pole)

**Rx+ / Tx+** Send/Receive data cable (positive pole)

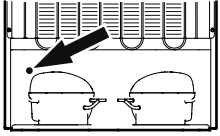
**GND** Earth cable



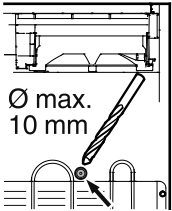
## Opening for external temperature sensor



**Sensor cable opening for refrigerator compartment**

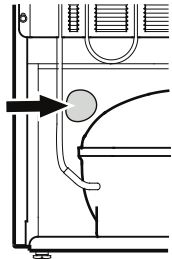


**Sensor cable opening for freezer compartment**



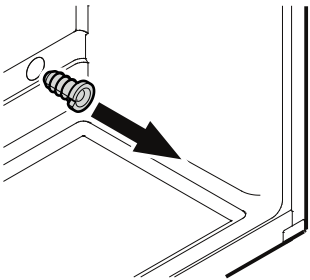
**Sensor cable opening for refrigerator compartment**

Drill marked section on the back of the appliance.



**Sensor cable opening for freezer compartment**

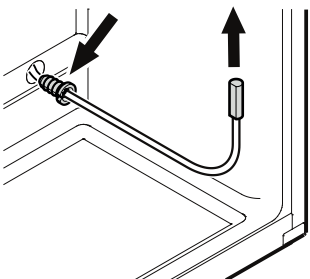
Remove sealant.



Pull out strain relief device.

The strain relief device can be found on the inside of the appliance.

Refrigerator compartment - top left  
Freezer compartment - bottom right



Feed sensor through opening and secure sensor cable with strain relief device.

**Important!**  
Close the sensor cable openings at the back of the appliance with the sealant provided.

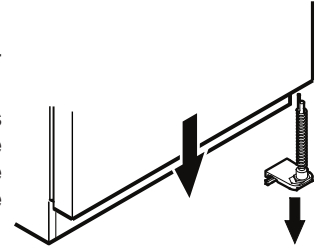
## Changing over door hinges

Door hinges should only be changed by a trained expert.

Changing the door hinges must be done by two people.

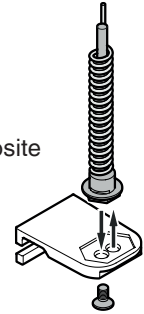
1. Unscrew the lower hinge bracket.

**Important:** the door mounting has a spring mechanism enabling the door to close by itself. The hinge bracket turns to the left when the screws are undone.



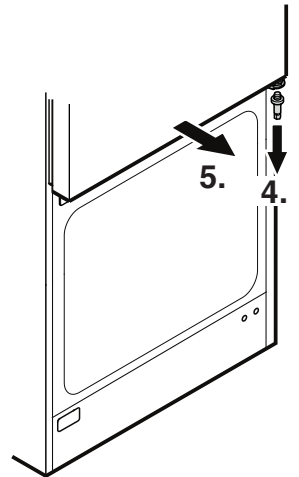
2. Remove the freezer door downwards.

3. Transfer pin on hinge bracket to the opposite side.

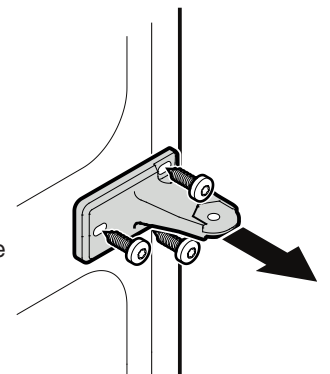


4. Unscrew the pin on the middle hinge bracket.

5. Pull the refrigerator door to the front and remove it downwards.



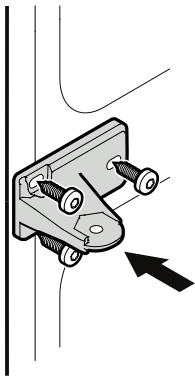
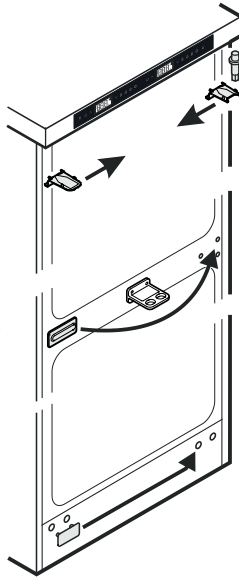
6. Unscrew the middle hinge bracket.



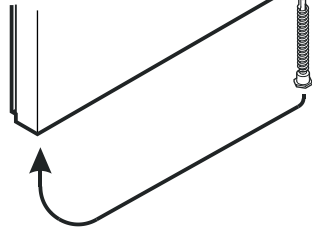
7. Transfer upper hinge components to the opposite side.

8. Transfer the middle cover plate to the opposite side.

9. Transfer the lower cover plate to the opposite side.

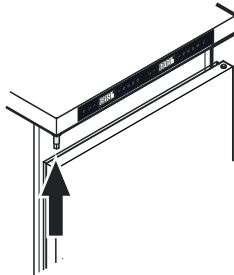


10. Reinstall the middle hinge bracket on the left-hand side.

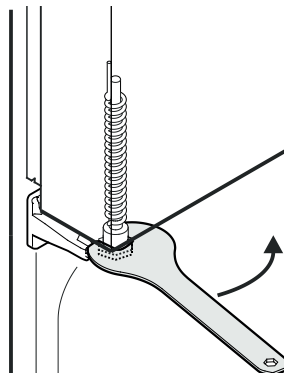


11. Pull out the spring mechanism from the refrigerator door and transfer to the opposite side.

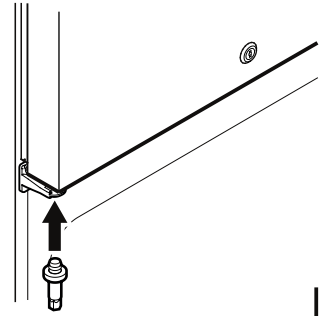
12. Suspend the refrigerator door on the hinge pin and close.



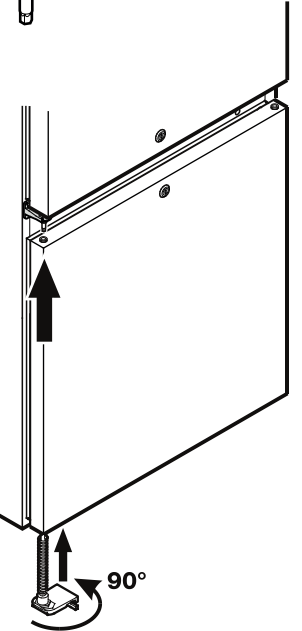
13. Turn the refrigerator door spring mechanism anticlockwise using the open-ended spanner provided, until the hexagon engages in the recess of the middle hinge bracket.



14. Screw the hinge pin into the middle hinge bracket.

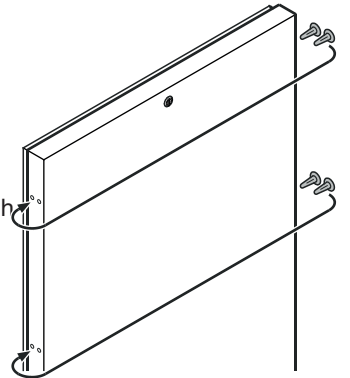


15. Suspend the freezer door on the hinge pin and close.

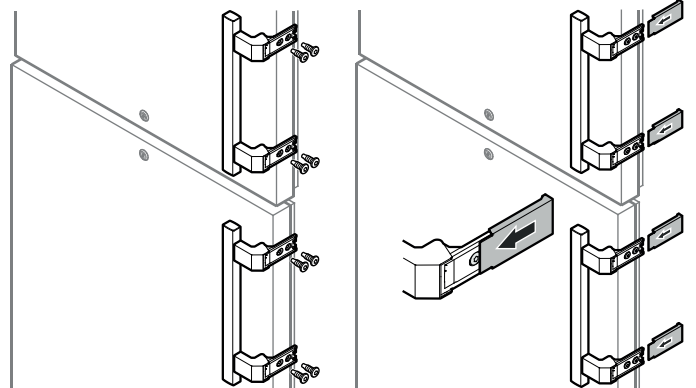


16. Install the lower hinge bracket.

17. Turn hinge bracket by 90° - spring is compressed. Screw on hinge bracket.



18. Transfer the plugs of both doors to the opposite side.



19. Screw on the handles.

20. Push on pressure plates until they engage.









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