



## Installation Guide

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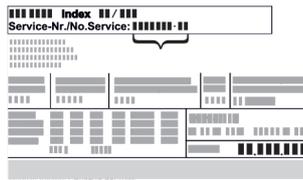
# LIEBHERR

# General safety instructions

## Contents

<b>1</b>	<b>General safety instructions.....</b>	<b>2</b>
<b>2</b>	<b>Setup conditions.....</b>	<b>3</b>
2.1	Space.....	3
2.2	Setting up multiple appliances.....	3
2.3	Electrical connection.....	3
<b>3</b>	<b>Appliance dimensions.....</b>	<b>4</b>
<b>4</b>	<b>Recess dimensions.....</b>	<b>4</b>
4.1	Internal dimensions.....	4
<b>5</b>	<b>Ventilation requirements.....</b>	<b>4</b>
<b>6</b>	<b>Transporting the appliance.....</b>	<b>5</b>
<b>7</b>	<b>Unpacking the appliance.....</b>	<b>5</b>
<b>8</b>	<b>Setting up the appliance.....</b>	<b>5</b>
8.1	After setup.....	5
<b>9</b>	<b>Disposal of packaging.....</b>	<b>5</b>
<b>10</b>	<b>Explanatory symbols used.....</b>	<b>5</b>
<b>11</b>	<b>**** freezer compartment door*.....</b>	<b>6</b>
11.1	Moving the door hinge.....	6
<b>12</b>	<b>Reversing the door.....</b>	<b>7</b>
<b>13</b>	<b>Fit the appliance into the recess.....</b>	<b>8</b>
<b>14</b>	<b>Water tank.....</b>	<b>13</b>
14.1	Inserting the water tank.....	14
<b>15</b>	<b>Water filter.....</b>	<b>14</b>
15.1	Installing the water filter.....	14
<b>16</b>	<b>Connecting the appliance.....</b>	<b>14</b>

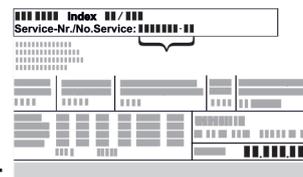
The manufacturer is constantly working to improve all types and models. Therefore, please be aware that we reserve the right to make changes to the shape, equipment and technology.

Symbol	Explanation
	<b>Read instructions</b> Please read the information in these instructions carefully to understand all of the benefits of your new appliance.
	<b>Additional information online</b> The digital manual with supplemental information and in additional languages can be found online by scanning the QR code on the front page of this manual or by entering the service number at <a href="http://home.liebherr.com/fridge-manuals">home.liebherr.com/fridge-manuals</a> . The service number can be found on the serial tag:  <i>Fig. Example illustration</i>
	<b>Check appliance</b> Check all parts for transport damage. If you have any complaints, please contact your agent or customer service.

Symbol	Explanation
	<b>Differences</b> These instructions apply to a range of models, so there may be differences. Sections that apply to certain models only are indicated by an asterisk (*).
	<b>Instructions and results</b> Instructions are marked with a ▶. Results are marked with a ▷.
	<b>Videos</b> Videos about the appliances are available on the YouTube channel of Liebherr-Hausgeräte.

## 1 General safety instructions

- Please keep this assembly manual in a safe place so you can refer back to it at any time.
- If you pass the appliance on, please hand this assembly manual to the new owner.
- Read this assembly manual before installation and use in order to use the appliance safely and correctly. Follow the instructions, safety instructions and warning messages included at all times. They are important for ensuring you can operate and install the appliance safely and without any problems.
- First read the general safety instructions in the “General safety instructions” section of the **operating instructions**, which accompany these installation instructions, and follow them. If you cannot find the **operating instructions**, you can download the **operating instructions** from the internet by entering the service number at [home.liebherr.com/fridge-manuals](http://home.liebherr.com/fridge-manuals). The service number can be found on the serial



tag:

- **Observe the warning messages and other detailed information in the other sections when installing the appliance:**

	DANGER	indicates a hazardous situation, which if not avoided, will result in death or serious injury.
	WARNING	indicates a hazardous situation, which if not avoided, could result in death or serious injury.

	CAUTION	indicates a hazardous situation, which if not avoided, will result in minor or moderate injury.
	NOTICE	indicates a hazardous situation, which if not avoided, could result in damage to property.
	Note	indicates useful advice and tips.

## 2 Setup conditions



### WARNING

Risk of fire due to moisture!

If live parts or the power cord get wet, this can cause a short circuit.

- ▶ The appliance is designed for use in enclosed spaces. Do not operate the appliance in open space or in damp areas or where there is spray.

Normal use

- Only set up and use the appliance in enclosed spaces.
- Only use once installed.

### 2.1 Space



### WARNING

Leaking refrigerant and oil!

Fire. The refrigerant contained within the appliance is environmentally friendly, but flammable. The oil contained within the appliance is flammable. Escaping refrigerant and oil can ignite if they are of high enough concentration and are exposed to an external heat source.

- ▶ Do not damage the pipelines of the coolant circuit and the compressor.

- If the appliance is installed in a very damp environment condensate water may form on the outside of the appliance.

Always ensure sufficient airflow and ventilation in the setup location.

- The more refrigerant there is in the appliance, the larger the space that it is installed in must be. If the space is too small, any leak may create a flammable mixture of gas and air. For every 8 g of refrigerant, the installation space must be at least 1 m<sup>3</sup>. Specifications on the refrigerant in the appliance can be found on the serial tag plate inside the appliance.

#### 2.1.1 Installation surface

- The floor of the installation site must be horizontal and level.
- If you are installing the unit in a cabinet standing on an uneven floor: level the cabinet.

#### 2.1.2 Installation position

- Do not install the appliance in an area with direct sunlight, next to a heating unit or similar.
- You can install the appliance directly next to an oven.
- If you install the appliance directly next to an oven, its energy consumption may increase slightly. This depends on the service life and how often the oven is used.
- Only install the appliance in solid cabinets.

## 2.2 Setting up multiple appliances

The appliances were developed for different installation options. If you want to install several appliances side by side or on top of each other, make sure that the following requirements are met:

- Only install those appliances side by side or on top of each other that were developed for the purpose.
- Observe the instructions and the following table.

### NOTICE

Risk of damage caused by water condensate!

- ▶ Do not set up the appliance next to another refrigeration/freezer unit.

### NOTICE

Risk of damage from condensation!

- ▶ Do not set up the appliance directly above another refrigeration/freezer unit.

Model	Installation type
All models	individually
Models with a model designation that starts with <b>S...</b>	Side-by-Side (SBS)
Models up to a maximum recess height of 880 mm and with heated ceiling can be "set up" on top of each other. Top appliance up to a maximum recess height of 140 mm	On top of each other

*Models and their installation type*

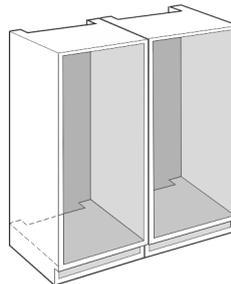


Fig. 1

Install each appliance in a separate cabinet recess.

## 2.3 Electrical connection



### WARNING

Danger of fire due to incorrect positioning!

If the power supply cable or plug touches the back of the appliance, the vibration can damage the power supply cable or the plug resulting in a short circuit.

- ▶ Make sure the power supply cable is not trapped under the appliance when you position the appliance.
- ▶ Install the appliance so that it does not touch any plugs or power cables.
- ▶ Do not connect any appliances to sockets in the area of the back of the appliance.
- ▶ Do **not** place and operate power strips/power distributors and other electronic devices (such as halogen transformers) at the back of the appliances.

# Appliance dimensions

## 3 Appliance dimensions

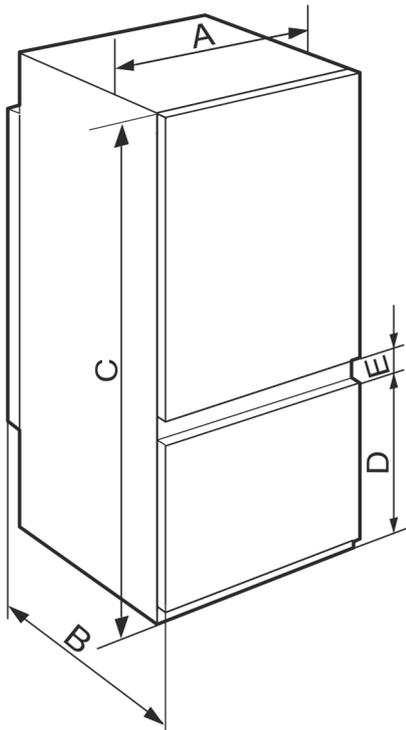


Fig. 2

	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
ICS.. 51.2 ICBS.. 51.2 IKGS 51Vd02	541	545	1770	523	67
ICS.. 51.3 IKGS 51Ve03 / IKGBNS 51Vd23 / IKGNS 51Vd03				669	
ICNS.. 51.3 ICBNS.. 51.3				1938	
ICNS.. 56.3 ICBNS.. 56.3					

	A (mm)	B (mm)	C (mm)
IRS.. 39.. IFS.. 39..	541	545	872
IRS.. 41.. IRBS.. 41.. IKS 41Ve00 / IKS 41Ve01			1213
IRBS.. 51.. SIFNS.. 51..			1770

## 4 Recess dimensions

### 4.1 Internal dimensions

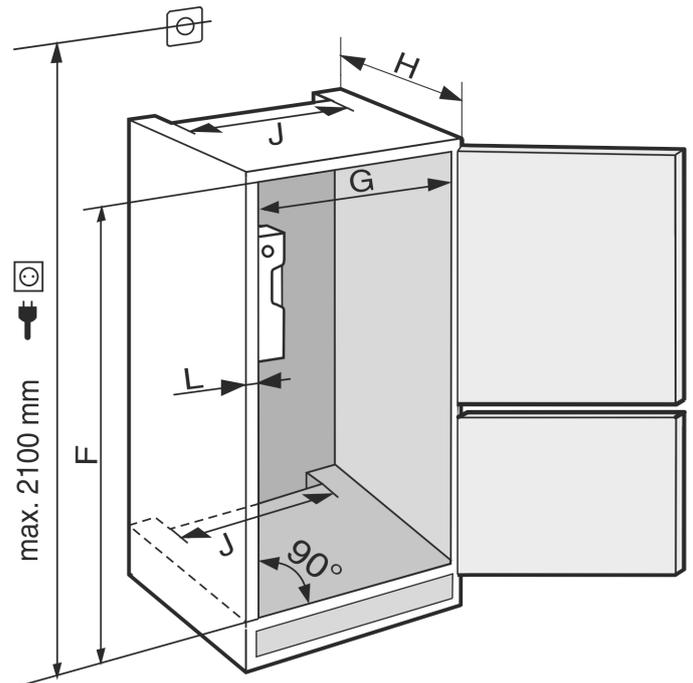


Fig. 3

ICNS 5103	
F (mm)	1772 to 1788
G (mm)	560 to 570
H (mm)	min. 550, recommended 560
J (mm)	min. 500
L (mm)	max. 19

The specified energy consumption was determined with a kitchen cabinet depth of 560 mm. The appliance will work properly at a kitchen cabinet depth of 550 mm, but with a slightly higher energy consumption.

- ▶ Check the wall thickness of adjacent units: It must be a minimum of 16 mm.
- ▶ Only fit the appliance into stable, solid kitchen units. Secure the unit against tipping.
- ▶ Align the cabinets with a level and a try square. If necessary, level them by putting something underneath them.
- ▶ Make sure floor and the side panels of the cabinet are at right angles to each other.

## 5 Ventilation requirements

### NOTICE

Covered vents!

Damage. Appliance can overheat, which can reduce the service life of various parts of the appliance and lead to functional impairments.

- ▶ Always ensure good ventilation.
- ▶ Always keep vents or ventilation grills in the appliance housing and in the kitchen structure (built-in appliance) unobstructed.
- ▶ Never block air vents of the fan.

Comply with the ventilation gaps:

- The depth of the ventilation shaft at the back of the cabinet must be at least 38 mm.
- At least 200 cm<sup>2</sup> is required for the ventilation gap cross sections in the plinth and the housing cabinet.
- Basically, the larger the ventilation cross-section, the more efficiently the appliance will run.

Sufficient ventilation is required for the operation of the appliance. The ventilation grids provided ensure an effective ventilation cross-section on the appliance of 200 cm<sup>2</sup>. If you replace the ventilation grids with a cover plate the ventilation cross-section must be as least as large as the ventilation grid provided by the manufacturer.

## 6 Transporting the appliance

**Observe the following when transporting the appliance:**

- ▶ Transport the appliance upright.
- ▶ Use two people when transporting the appliance.

**During the first use:**

- ▶ Transport the appliance packaged.

**During appliance transport or at first use (e.g. when moving or cleaning):**

- ▶ Empty the appliance.
- ▶ Secure the door against undesired opening.

## 7 Unpacking the appliance

If the appliance is damaged check with the supplier immediately before connecting it.

- ▶ Check the appliance and packaging for damage during transport. If you suspect any damage, please contact your supplier immediately.
- ▶ Remove all materials that could prevent it from being installed properly or prevent proper ventilation from the back or the side panels of the appliance.
- ▶ Remove all protective films from the appliance. Do not use sharp or pointed objects for this.
- ▶ Remove the mains cable from the back of the appliance. Also remove the cable holder, otherwise there will be vibration noise!

## 8 Setting up the appliance



### CAUTION

Risk of injury due to heavy appliance!

- ▶ Have two people transport the appliance to its installation site.



### WARNING

Danger of injury and damage due to the appliance being unstable!

The appliance can tip over.

- ▶ Secure the appliance as described in the instructions.



### WARNING

Danger of fire and damage!

- ▶ Do not place devices that give off heat, e.g. microwaves, toasters, etc. on the appliance.

If possible, have a professional install the appliance in your kitchen cabinet unit.

Do not install the appliance without assistance.

## 8.1 After setup

- ▶ Remove all transport packaging.

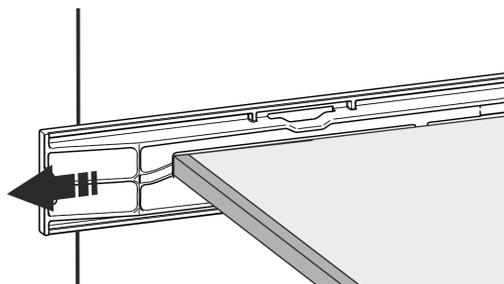


Fig. 4 \*

- ▶ Clean the appliance (see User Guide, Cleaning the appliance).

## 9 Disposal of packaging



### WARNING

Danger of suffocation from packaging materials and films!

- ▶ Do not allow children to play with packaging materials.

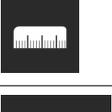
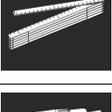
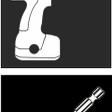
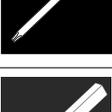
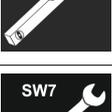
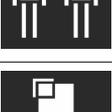
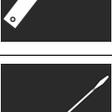
The packaging is made from recyclable materials:

- Corrugated card/cardboard
- Parts made of foamed polystyrene
- Films and bags from polyethylene
- Packing bands from polypropylene
- Wood frame nailed together with a polyethylene window\*
- ▶ Take the packaging material to an official collection point.

## 10 Explanatory symbols used

	There is the risk of injury when doing this! Obey the safety instructions!
	These instructions apply to several models. Only perform this step if it applies to your appliance.
	To install, please follow the detailed description in the Guide.
	This section applies either to a single-door appliance or a double-door appliance.
	Choose one of the options: Appliance with right-hinged door or appliance with left-hinged door.
	Installation step necessary with IceMaker and/or InfinitySpring.

## \*\*\*\* freezer compartment door\*

	Loosen or tighten screws slightly.
	Tighten the screws fully.
	Check to see if the next step applies for your model.
	Check the components are in correctly.
	Measure the specified measurement and adjust if necessary.
	Installation tool: Meter stick
 	Tool for assembly: Cordless screwdriver and attachments We recommend a longer bit insert to reach the screws better.
	
	Tool for assembly: Spirit level
	Tool for assembly: Size 7 and size 10 spanner
	Two people are required for this step.
	This step takes place at the selected location of the appliance.
	Aid for assembly: String
	Aid for assembly: Square
	Aid for assembly: Screwdriver

	Aid for assembly: Scissors
	Aid for assembly: Non-permanent marker pen
	Accessory kit: Remove components
	Dispose of components that are no longer needed.

## 11 \*\*\*\* freezer compartment door\*

It is very easy to reposition the hinge of the \*\*\*\* freezer compartment door if the main door hinge is swapped. If the main door of the appliance can be opened to more than 115° (1), you can open the freezer compartment without repositioning the hinge. If the opening angle (2) of the appliance door is less than this, the hinge must be repositioned.

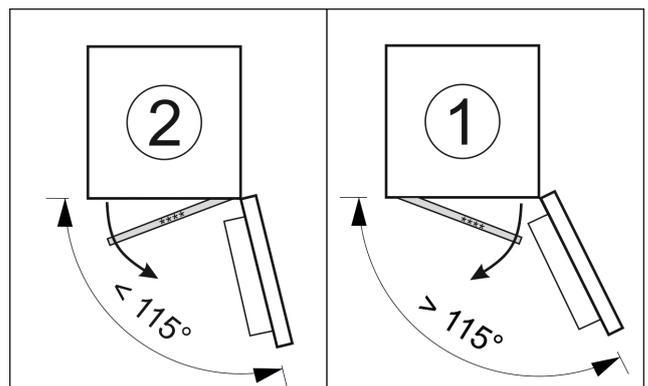


Fig. 5

### 11.1 Moving the door hinge

The slider for moving the door hinge is located on the back of the \*\*\*\* freezer compartment door at the bottom.

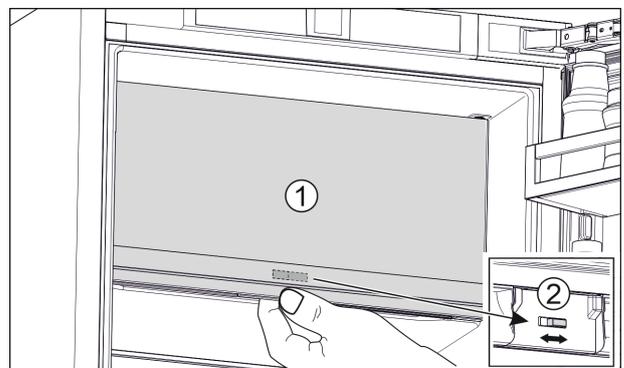


Fig. 6

- ▶ Close the \*\*\*\* freezer compartment door (1).
- ▶ Grab the \*\*\*\* freezer compartment door from below.
- ▶ Move the slider (2) either to the right or to the left.

## 12 Reversing the door

Tool



Fig. 7



### WARNING

Danger of injury if the door falls out!  
If the fasteners are not screwed on tightly enough, the door may fall out. This may lead to serious injuries. In addition, the door may not close, thus impairing the cooling performance of the appliance.

- ▶ Screw the upper and lower bearing brackets firmly to 4 Nm.

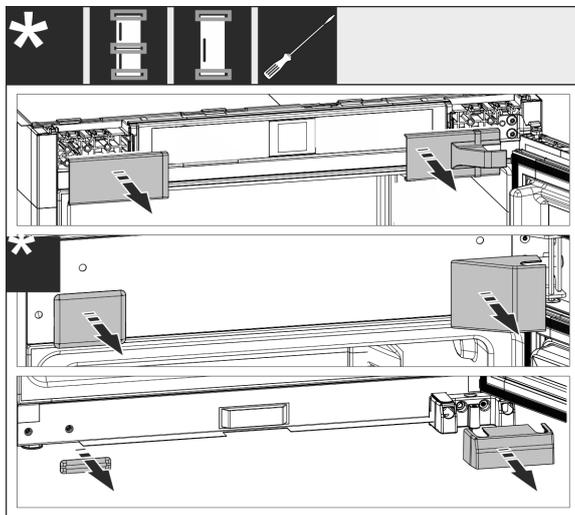


Fig. 8

- ▶ Remove any mounted covers, if necessary, use a slotted screwdriver to lift them off.

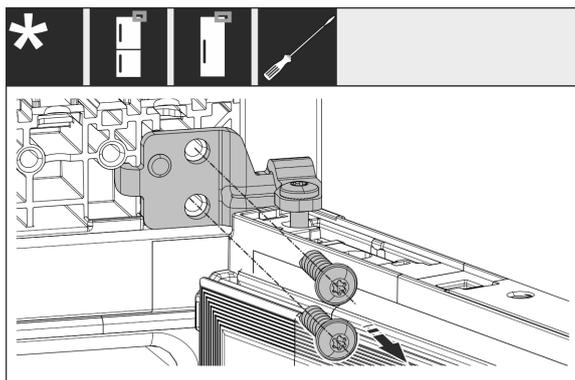


Fig. 9

- ▶ Loosen the screws on the bearing block. Secure the door against falling out.

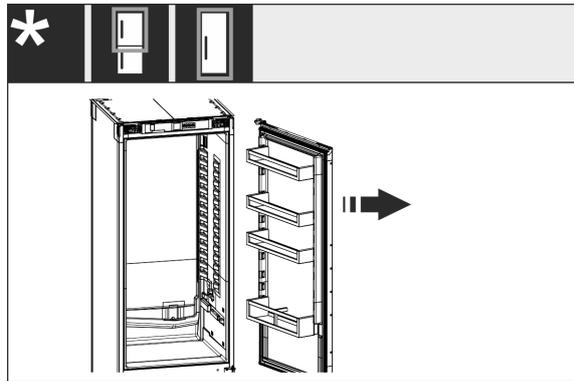


Fig. 10

- ▶ Remove the door together with the still screwed-on bearing bracket.

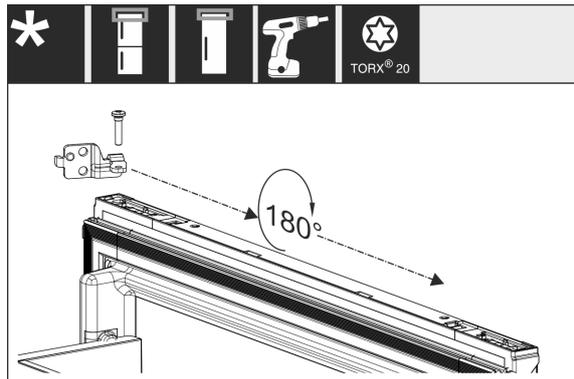


Fig. 11

- ▶ Turn and shift the bearing block by 180°.

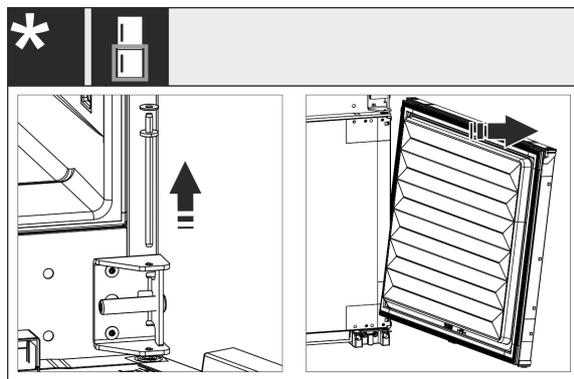


Fig. 12

- ▶ Removing the lower door: Pull out the middle bearing bolt with the disc. Secure the door against tipping out. Lift the door up.

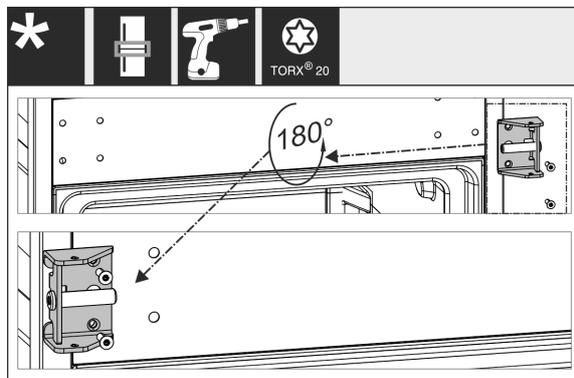


Fig. 13

- ▶ Shift the middle bearing block and screw it tightly.

# Fit the appliance into the recess

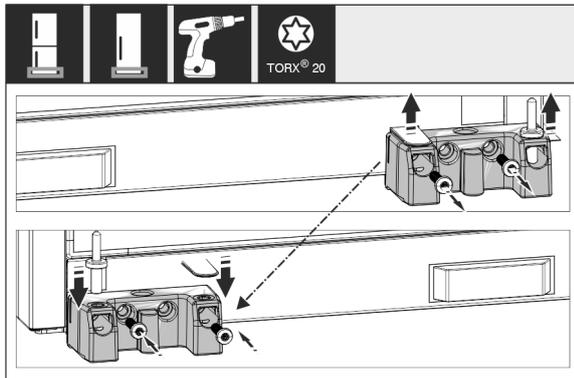


Fig. 14

- ▶ Shift the bottom bearing block and screw it tightly.

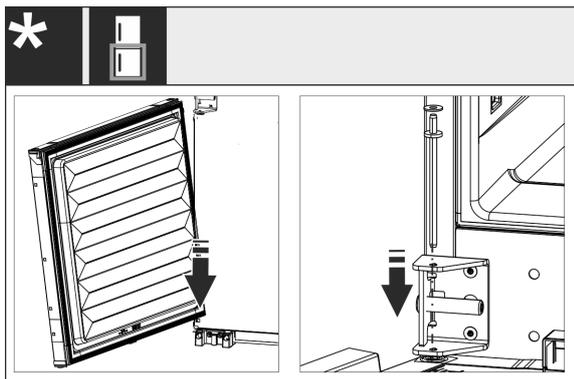


Fig. 15

- ▶ With combination units: Mount the lower door: Place on the hinge bolt at the bottom and rotate into place at the top. Insert the middle bearing bolt into the door from above through the middle bearing block.

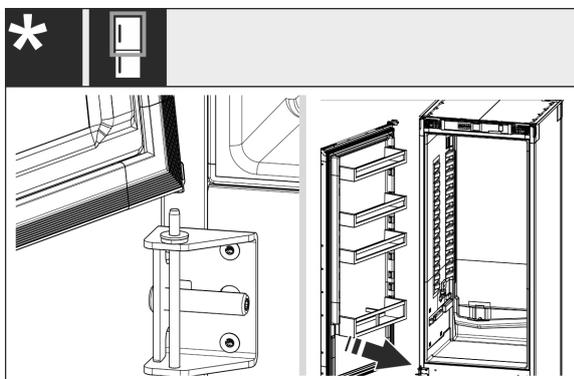


Fig. 16

- ▶ With combination units: Fitting the upper door: Place at the bottom of the middle bearing bolt.
- ▶ For single-door appliances: Fitting the door: Place it on the bearing pin at the bottom.

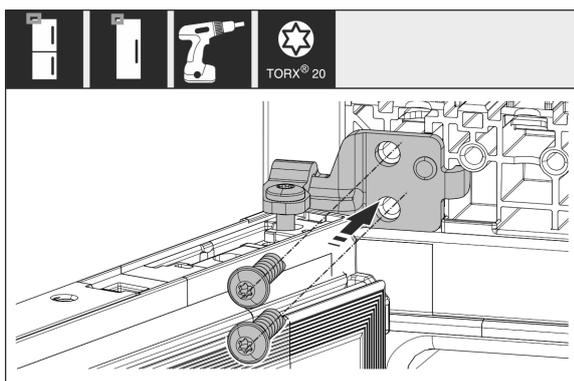


Fig. 17

- ▶ Screw the top bearing block to the housing.

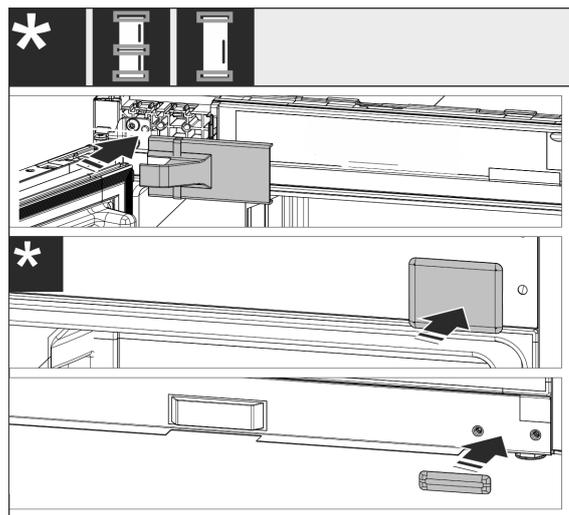


Fig. 18

- ▶ Refit the covers on the handle side. Only fit the hinge side cover after installing the appliance into the cabinet again.
- ▶ Check all screws and retighten if necessary.

## 13 Fit the appliance into the recess

### Tools and aids

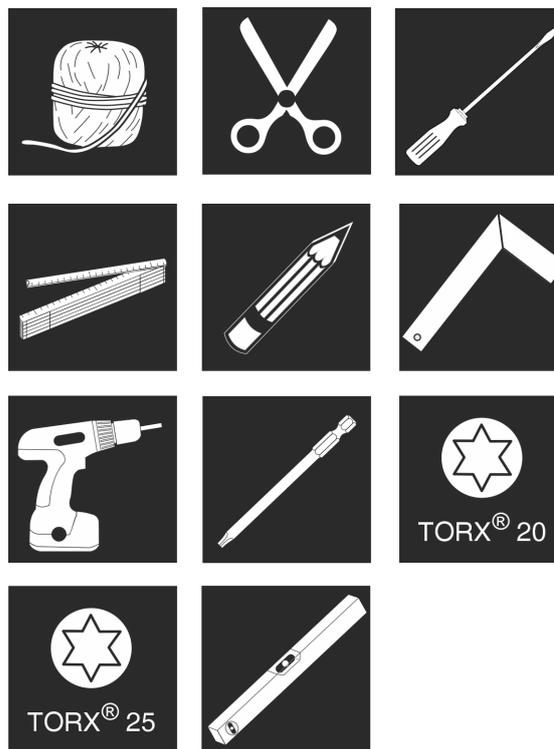


Fig. 19

### Supplied installation parts

# Fit the appliance into the recess

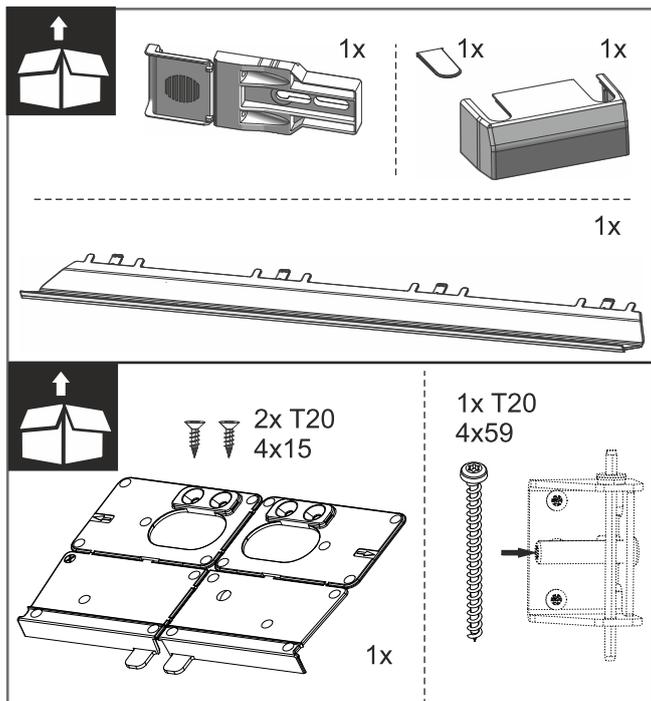


Fig. 20

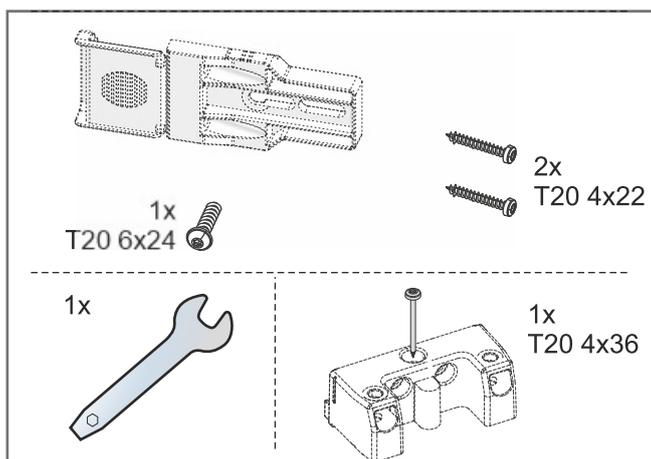


Fig. 21

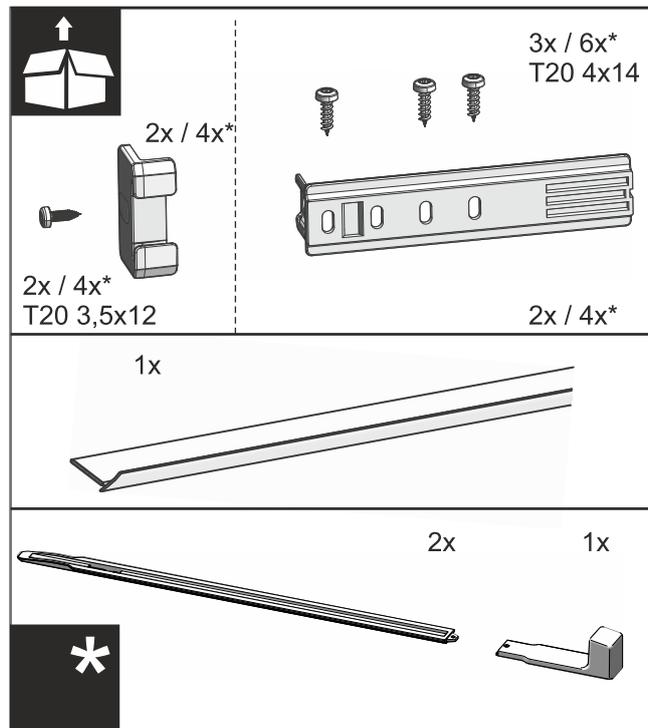


Fig. 22

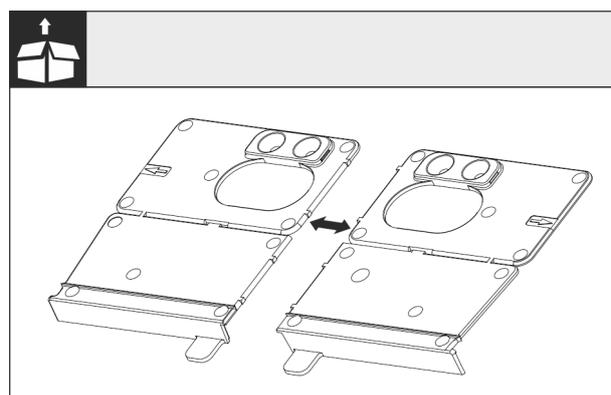


Fig. 23 Floor mounting bracket

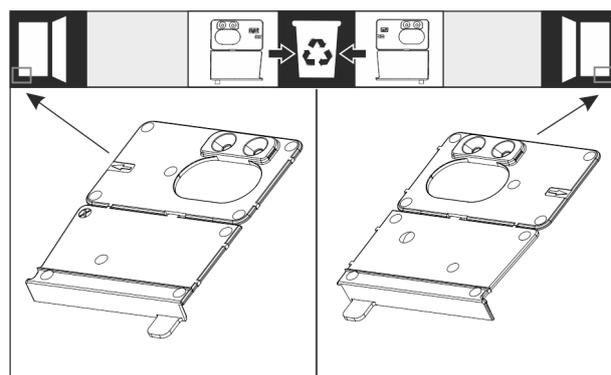


Fig. 24

- Separate the mounting bracket at the perforation. Dispose of either the right or left mounting bracket depending on the opening direction.

# Fit the appliance into the recess

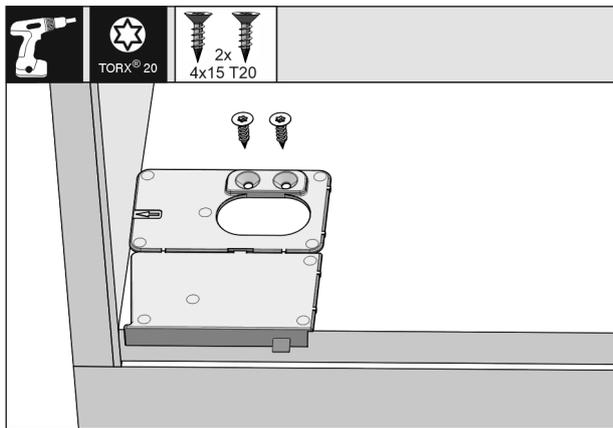


Fig. 25

## NOTICE

Correct installation depth of the appliance.

- ▶ Using the mounting bracket ensures the correct installation depth of the appliance.
- ▶ Screw on the mounting bracket on the right or left (depending on the opening direction) flush to the side wall on the floor of the cabinet recess. The mounting bracket is always mounted on the handle side.

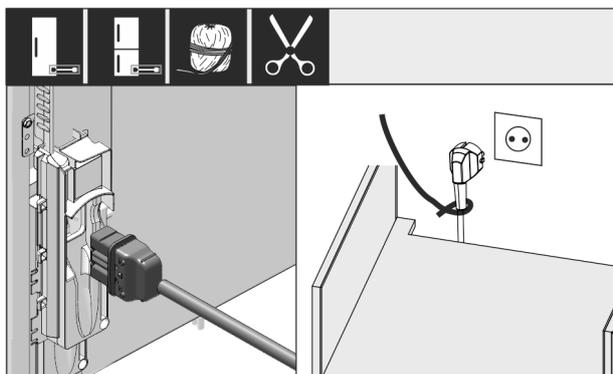


Fig. 26

- ▶ Remove the power cable from the enclosed package.
- ▶ Fully insert the IEC socket of the power cable completely into the appliance plug on the rear side of the appliance. Ensure the IEC socket is firmly in place.
- ▶ Use a string to route the power plug to a socket outlet that is freely accessible.

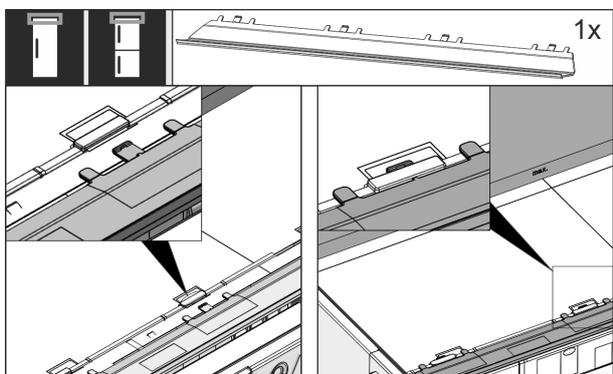


Fig. 27

- ▶ Insert the leveling panel. The panel can be moved to both sides.

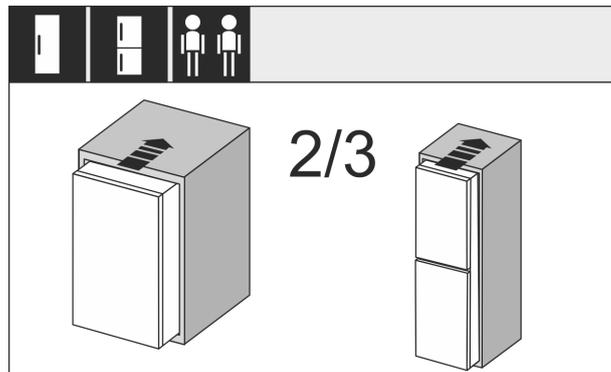


Fig. 28

- ▶ Slide the appliance 2/3 of the way into the cabinet recess.

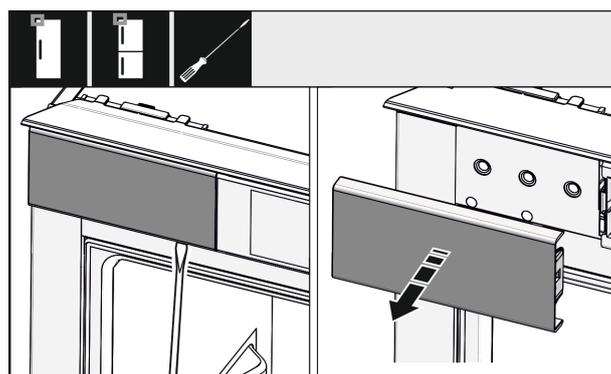


Fig. 29

- ▶ Use a screwdriver to loosen the cover on the top left and then remove it.
- ▶ Remove any other mounted covers.

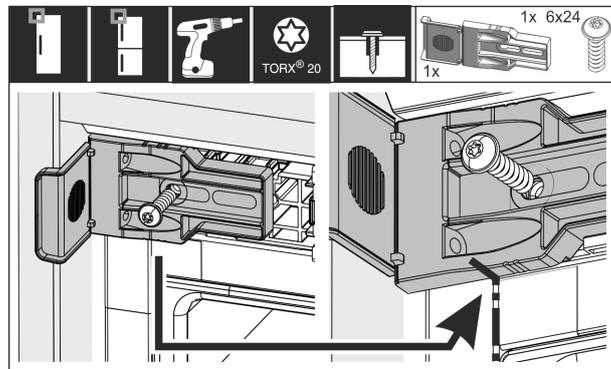


Fig. 30

- ▶ Screw on the mounting bracket. The bracket should no longer move. The marking of the mounting bracket should be located on the joint of the housing.

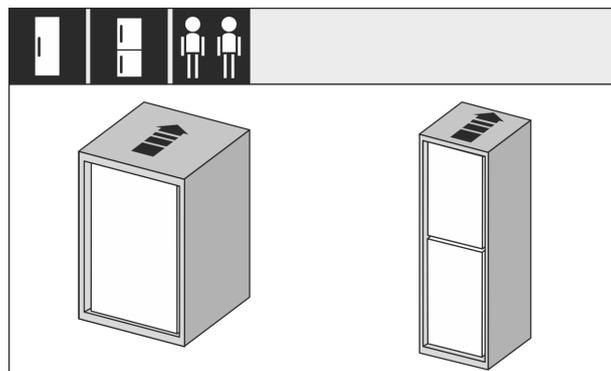


Fig. 31

## Fit the appliance into the recess

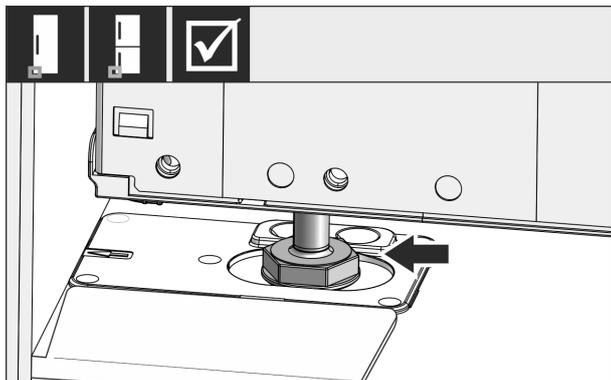


Fig. 32



### WARNING

Risk of fire from short circuit!

- ▶ If you are pushing the appliance into the recess: Do not kink, trap, or damage the power cable.
- ▶ Do not operate the appliance with a defective power cable.

- ▶ Now insert the appliance all the way into the unit recess. The adjustable foot must sit in the recess of the mounting bracket.

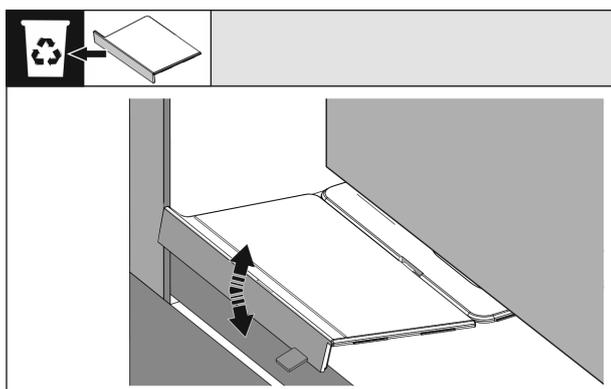


Fig. 33

- ▶ Removing the front stopper of the floor mounting bracket: Loosen the stopper by moving it and, if necessary, pull it off using pliers.

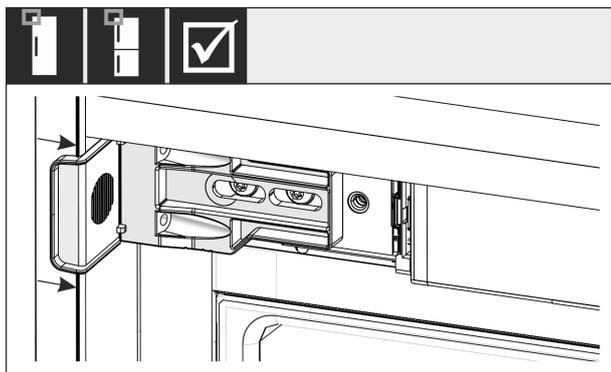


Fig. 34

- ▶ Check that the appliance is flush in the cabinet recess. The mounting bracket must be attached to the side wall of the cabinet recess.

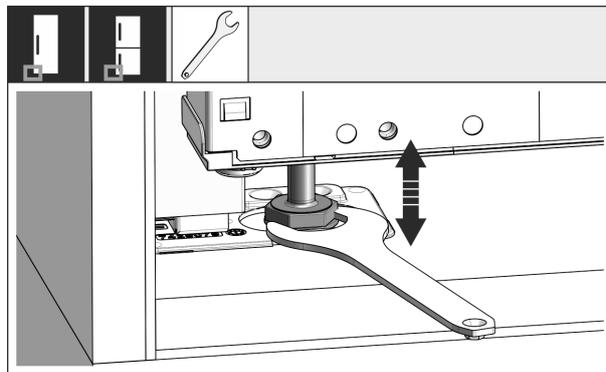


Fig. 35

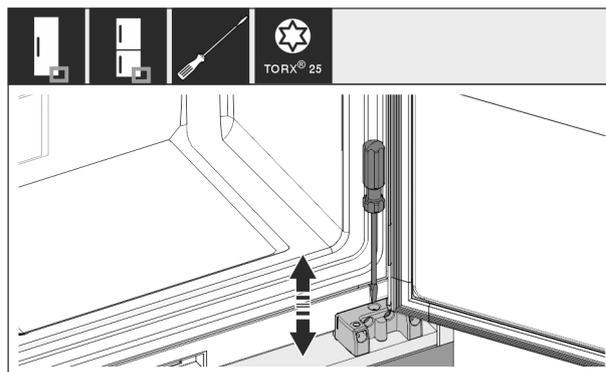


Fig. 36

- ▶ If necessary, use the adjustable feet to correct the tilt of the appliance.

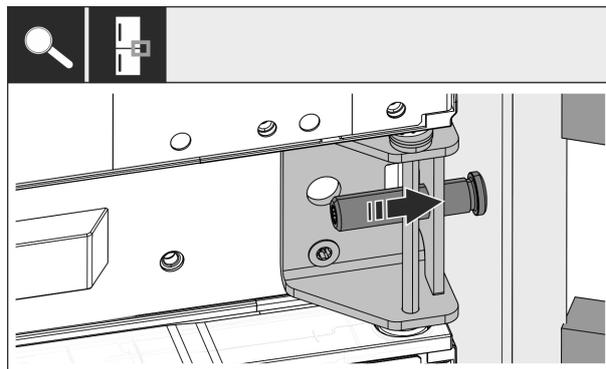


Fig. 37

- ▶ For combinations: Secure the appliance into the cabinet recess on the hinge side using the middle bearing block. Make sure that the cabinet wall is not damaged by the adjusting screw.

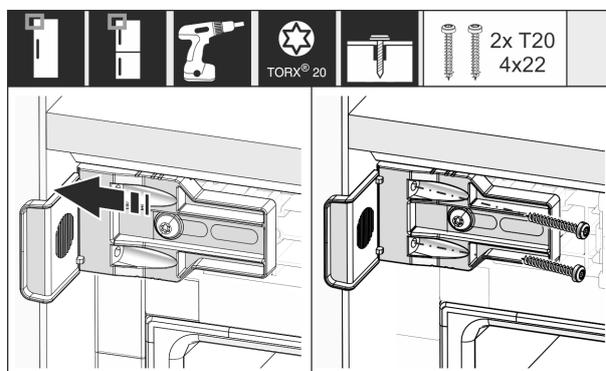


Fig. 38

- ▶ Tightly screw the bracket to the side wall of the cabinet recess.

# Fit the appliance into the recess

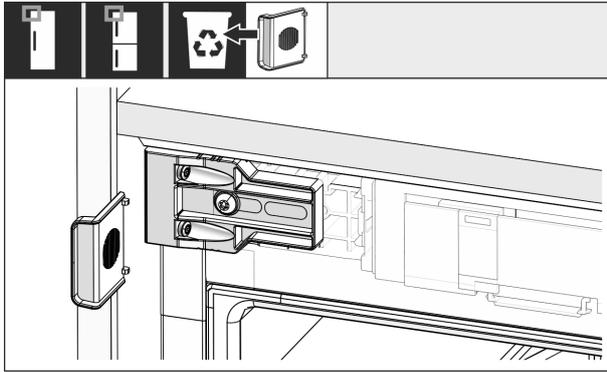


Fig. 39

- ▶ Remove the stop from the bracket on the handle side and dispose of it.

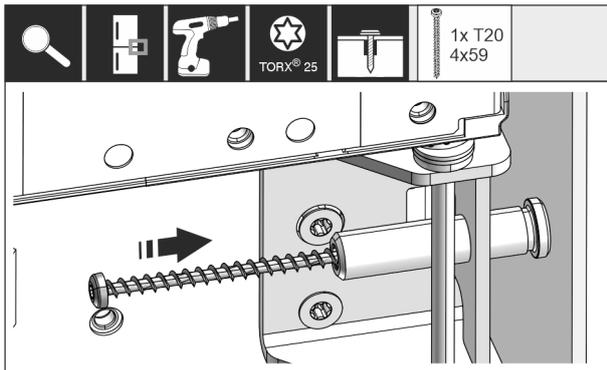


Fig. 40

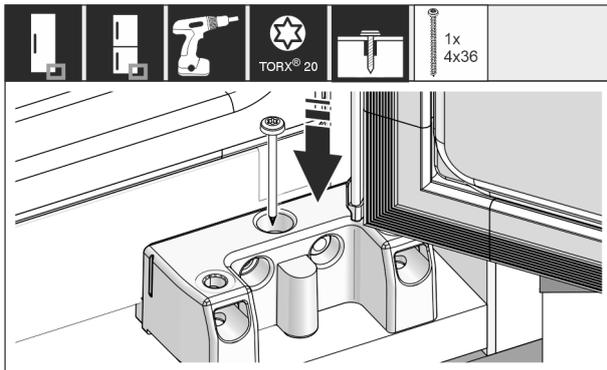


Fig. 41

- ▶ Screw the appliance into the recess on the hinge side using the middle and bottom bearing brackets.

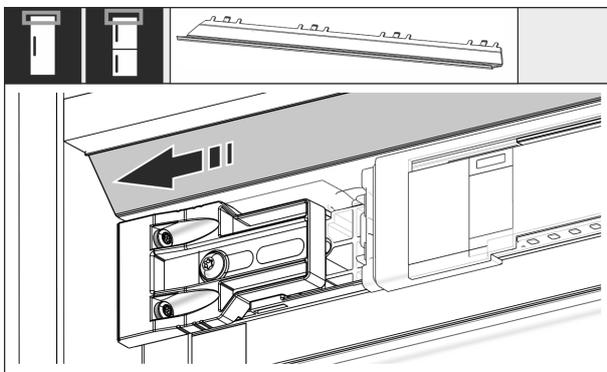


Fig. 42

- ▶ Move the cover panel so it sits flush on the side of the cabinet wall.

**Install leveling rails if the recess height is greater than 1400 mm:**



Fig. 43

You must install leveling rails underneath the appliance for any recess height that is greater than 1400 mm. The leveling rails **minimize the sound level**. Two leveling rails and a mounting handle are included in the enclosed package as standard for recess heights above 1400 mm.

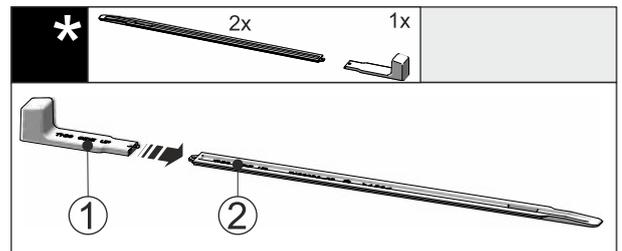


Fig. 44

- ▶ Insert the mounting handle Fig. 44 (1) into the leveling rail Fig. 44 (2).

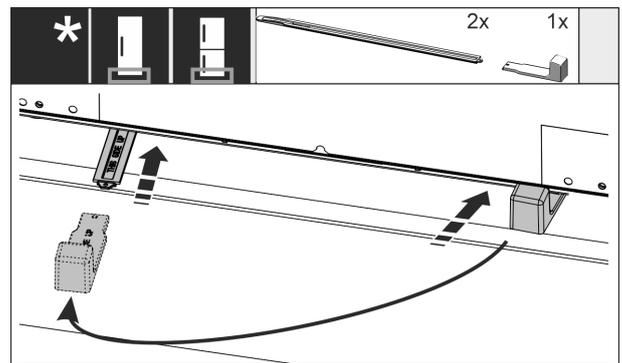


Fig. 45

- ▶ Insert the leveling rail into the guide underneath the appliance floor until it reaches the stop.
- ▶ Pull off the mounting handle and insert it into the second leveling rail.
- ▶ Proceed in the same manner with the second leveling rail.

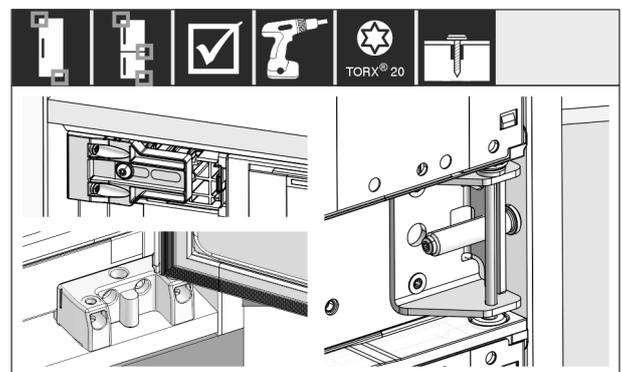


Fig. 46

- ▶ Check and retighten all screws.

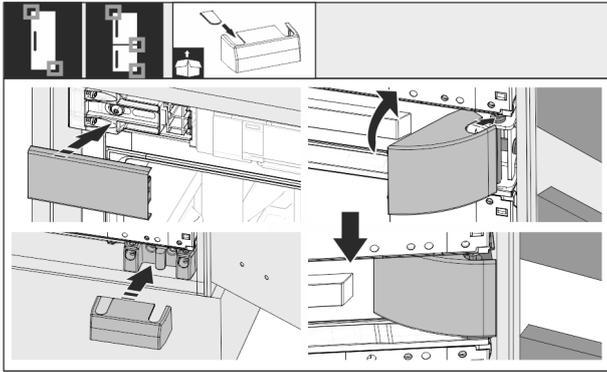


Fig. 47

- ▶ Put all covers on.

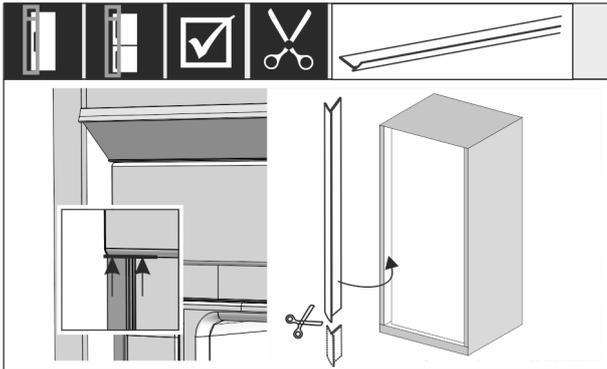


Fig. 48

- ▶ If necessary: Shorten the sealing strip as necessary with a sharp pair of scissors.
- ▶ Position the sealing strip below the top cover and press it in. The sealing strip is magnetic.

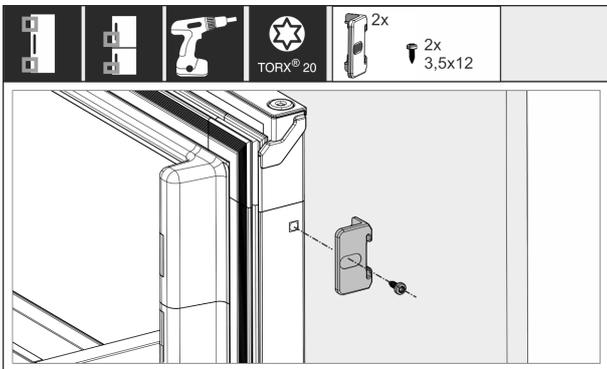


Fig. 49

Attaching the custom panel to the appliance door:

- ▶ Open the door fully.
- ▶ Mount the bracket onto the appliance door.

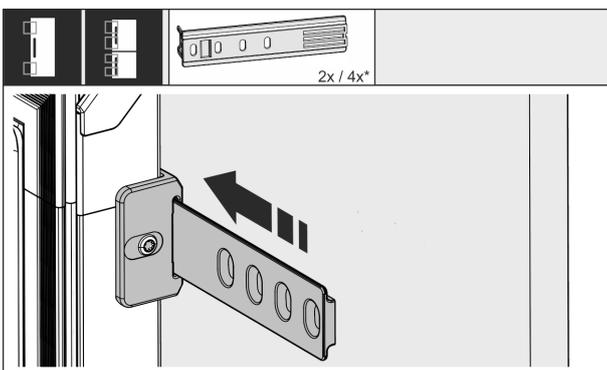


Fig. 50

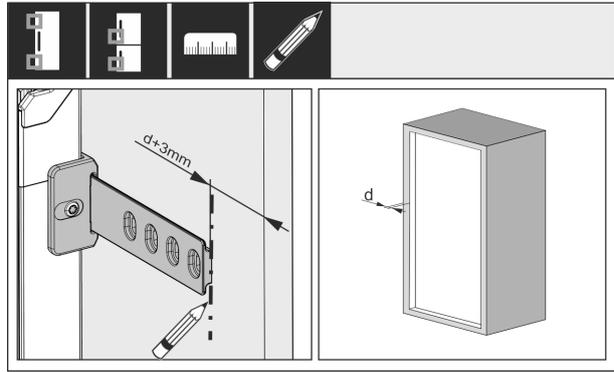


Fig. 51

The gap between the end of the rail and the outer edge of the custom panel is the thickness of the unit side wall + 3 mm.

- ▶ Mark using a non-waterproof pen.

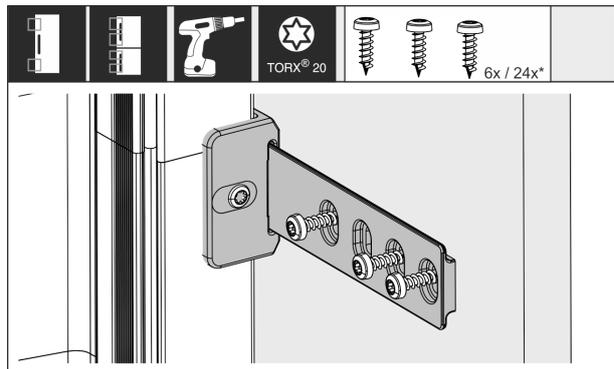


Fig. 52

- ▶ Push the rail into the bracket and screw it to the cabinet door.

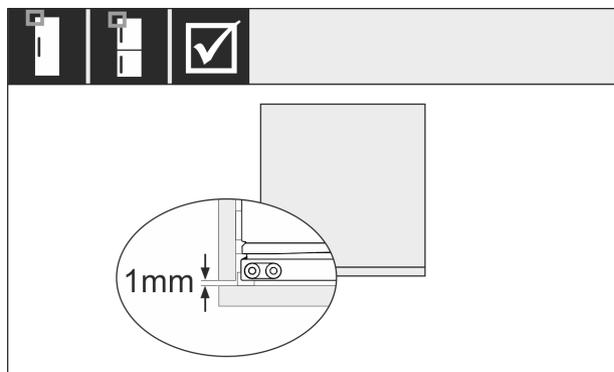


Fig. 53

- ▶ Check that the seal runs all the way around the appliance door.
- ▶ Make sure the custom panel does not open onto the side wall of the unit recess. Liebherr recommends a minimum gap of 1 mm.

## 14 Water tank

Depending on your model, the InfinitySpring water tank is behind the lowest drawer in the fridge or BioFresh compartment

# Water filter

## 14.1 Inserting the water tank

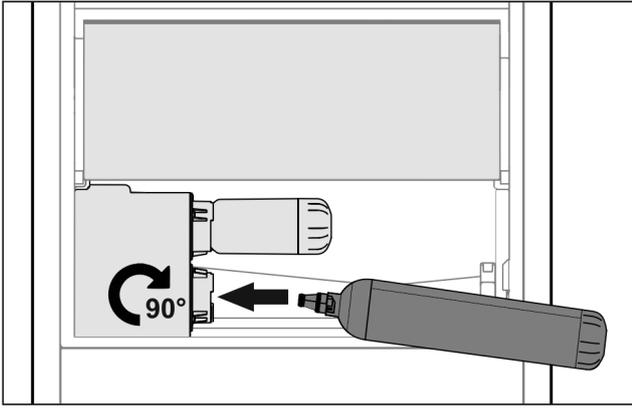


Fig. 54

- ▶ Remove the drawer.
- ▶ Insert the water tank and turn approx. 90° to the right until it engages.
- ▶ Check that the water tank is sealed and no water leaks out.
- ▶ Insert the drawer.
- ▶ Vent the water system (see Installation Instructions, Water Connection)

Instead of the water filter, you can use an additional water tank.

### Note

The water tank is available as a spare part.

## 15 Water filter

Depending on your model, the water filter is behind the lowest drawer in the fridge or BioFresh compartment.

It absorbs deposits in the water and reduces the taste of chlorine.

- Replace the water filter at least every 6 months under the specified usage conditions or if the flow rate drops significantly.
- The water filter contains carbon and can be disposed of with the regular household waste.

### Note

The water filter can be purchased from the Liebherr-Hausgeräte store at [home.liebherr.com/shop/de/deu/zubehor.html](http://home.liebherr.com/shop/de/deu/zubehor.html).

## 15.1 Installing the water filter

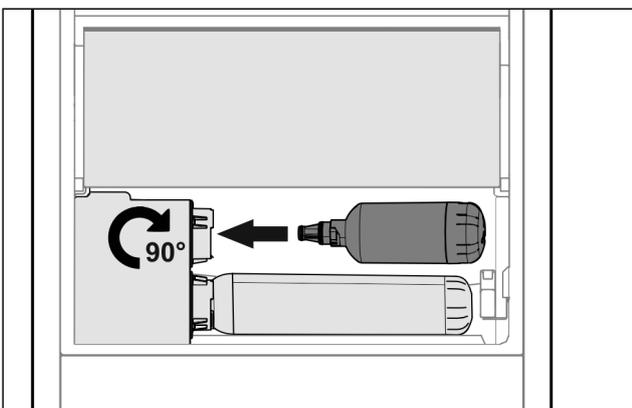


Fig. 55

- ▶ Remove the drawer.

- ▶ Insert the water filter and turn clockwise approx. 90° until it engages.
- ▶ Make sure the filter does not leak and no water is coming out.
- ▶ Insert the drawer.



### CAUTION

New water filters may contain particulate matter.

- ▶ Draw 3 l of water from the InfinitySpring and dispose of it.

▷ The water filter is now ready for use.

## 16 Connecting the appliance



### WARNING

Danger of fire due to incorrect connection!  
Burns.

Damage to the appliance.

- ▶ Do not use an extension cord.
- ▶ Do not use a multipoint connector strip.

### NOTICE

Danger of damage to incorrect connection!  
Damage to the appliance.

- ▶ Do not connect the appliance to a stand-alone inverter, e.g. solar power systems and petrol generators.

### Note

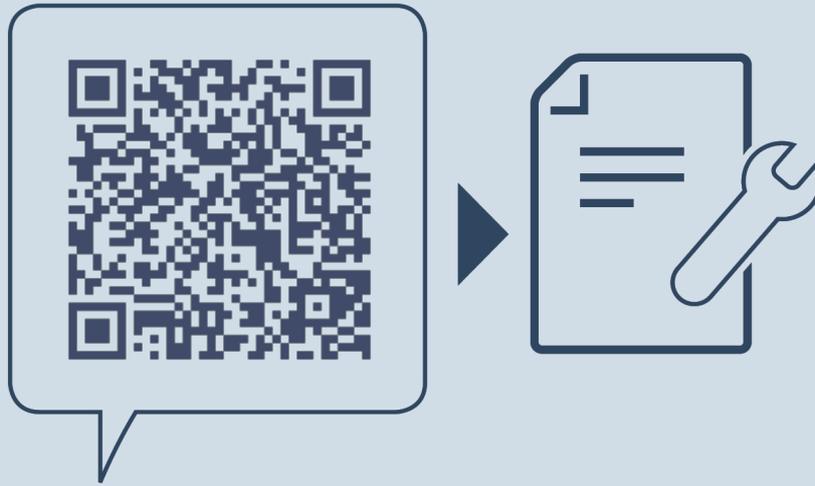
Only use the mains cable supplied.

- ▶ A longer mains cable can be ordered from Customer Service.

Make sure that the following requirements are fulfilled:

- The type of current and voltage at the installation site complies with the information on the serial tag.
- The socket is grounded and fused in accordance with regulations.
- The tripping current for the fuse is between 10 and 16 A.
- The socket is easily accessible.
- ▶ Check the electrical connection.
- ▶ Connect the mains plug to the power supply.
- ▷ The Liebherr logo appears on the screen.
- ▷ The display switches to the standby symbol.





[home.liebherr.com/fridge-manuals](https://home.liebherr.com/fridge-manuals)

**EN** Refrigerators and freezers for integrated use, door slider

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