



Installation Guide

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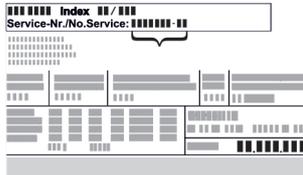
General safety instructions

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The manufacturer is continually working on the further development of all types and models. Please be aware that we reserve the right to make changes to the shape, equipment and technology.

Symbol	Explanation
	Read instructions Please read the information in these instructions carefully to understand all of the benefits of your new appliance.

Symbol	Explanation
	Additional information on the Internet The digital manual with additional information and in other languages can be found via the QR code on the front of the manual or by entering the service number at home.liebherr.com/fridge-manuals . The service number can be found on the serial tag:  <i>Fig. Example illustration</i>
	Check appliance Check all parts for transport damage. If you have any complaints, please contact your agent or customer service.
	Differences These instructions apply to a range of models, so differences are possible. Sections that apply to certain models only are marked with an asterisk (*).
	Instructions and results Instructions are marked with a ▶. Results are marked with a ▷.
	Videos Videos about the appliances are available on the YouTube channels of Liebherr-Hausgeräte.

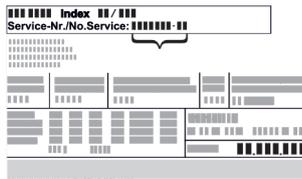
Open source licences:

The appliance contains software components that use open source licences. Information on the open source licences used can be found here: home.liebherr.com/open-source-licences

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 next user.
- Read this assembly manual carefully before installation and use to ensure safe and correct use of the appliance. 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 down-

load the **operating instructions** from the internet by entering the service number at 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	identifies a situation involving direct danger which, if not obviated, may result in death or severe bodily injury.
	WARNING	identifies a dangerous situation which, if not obviated, may result in death or severe bodily injury.
	CAUTION	identifies a dangerous situation which, if not obviated, may result in minor or medium bodily injury.
	NOTICE	identifies a dangerous situation which, if not obviated, may result in damage to property.
	Note	identifies useful instructions and tips.

2 Installation conditions

WARNING

Fire hazard due to dampness!

If live parts or the mains lead become damp this may cause short circuits.

- ▶ The appliance is designed for use in enclosed areas. Do not operate the appliance outdoors or in areas where it is exposed to splash water or damp conditions.

Intended use

- Install and use the appliance in indoor spaces only.

2.1 Location

WARNING

Leaking coolant and oil!

Fire. The coolant contained in the appliance is eco-friendly, but also flammable. The oil contained in the appliance is flammable. Escaping coolant and oil can ignite if the concentration is high enough and in contact with an external heat source.

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

- If the appliance is installed in a very humid environment, condensation can build up on the outside of the unit.

Always ensure good airflow and ventilation in the installation 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 m³. Information regarding the coolant can be found on the serial tag inside the appliance.

2.1.1 Supporting floor

- The floor of the installation site must be horizontal and even.

2.1.2 Positioning

- Do not install the appliance in direct sunlight or near radiators or similar sources of heat.
- You can install the appliance directly next to an oven.
- If the appliance is installed directly next to an oven, the energy consumption may increase slightly. This is dependent on the service life and usage intensity of the oven.

2.2 Mains connection

WARNING

Danger of fire due to incorrect positioning!

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

- ▶ Make sure the mains cable is not trapped under the appliance when you position the appliance.
- ▶ Stand the appliance so that it is not touched by connectors or main cables.
- ▶ Do not connect any appliances to sockets in the area of the back of the appliance.
- ▶ Do **not** place and operate multi-sockets/power distributors and other electronic devices (such as halogen transformers) at the back of the appliances.

3 Appliance dimensions

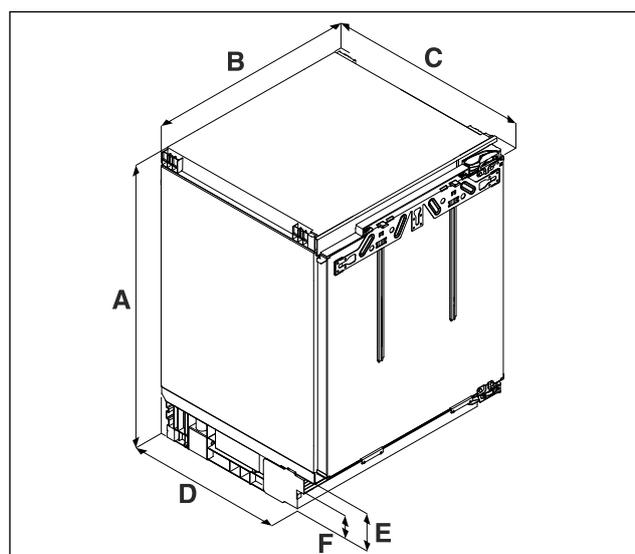


Fig. 1 Example illustration

(A) Appliance height including feet

(C) Appliance depth

(B) Appliance width

Recess dimensions

	.. 36..	.. 37..
A	820 mm to 880 mm	860 mm to 920 mm
B	597 mm	
C	550 mm	
D	459 mm	
E	104 mm to 164 mm	
F	61.5 mm to 121.5 mm	

A) Appliance type designation

4 Recess dimensions

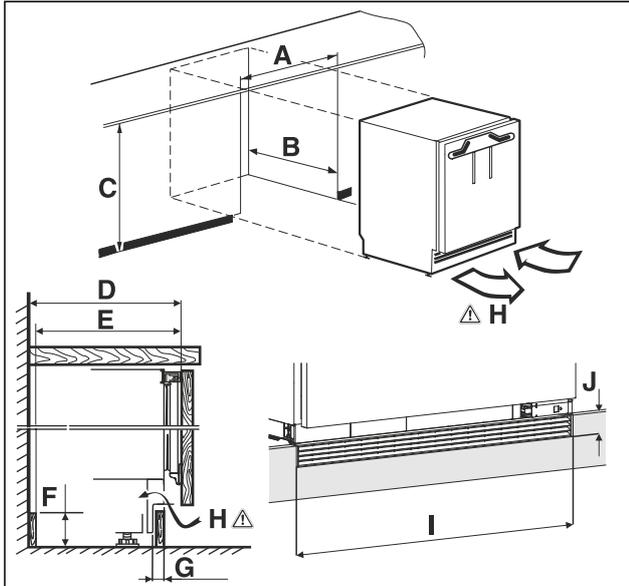


Fig. 2 Example illustration

(A) Niche width
(B) Niche depth
(C) Niche height
(H) Ventilation cross-section

A	600 mm	
B	min. 560 mm	
C	.. 36..: 820 mm to 880 mm	.. 37..: 860 mm to 920 mm
D	550 mm	
E	540 mm	
F	140 mm	
G	22 mm to 77 mm	
H	150 cm ²	
I	600 mm	
J	40 mm	

A) Appliance type designation

5 Unit front

5.1 Unit front weight

NOTICE

A heavy unit door may pose a risk of damage! If the unit door is too heavy, damage to the hinges cannot be ruled out, which may compromise functionality.

► Before fitting the unit door, ensure that the unit door does not exceed the permissible weight.

Niche height	Maximum weight of the unit door
.. 36.. ^{A)}	10 kg
.. 37.. ^{A)}	10 kg

A) Appliance type designation

5.2 Unit door

- A door is required for the kitchen unit.
- The door must be at least 16 mm and no more than 19 mm thick.
- There must be a gap of at least 3 mm width between the door and the cupboard door above (if present).
- The width of the unit door depends on the style of the kitchen and the size of the gap between the door panels of the cabinet. In general, a vertical gap of 3 mm should be left between the unit doors.
- If there are other cupboards, the top edge of the unit door should be at the same height as the doors of the neighbouring unit.
- The unit door must be flat and mounted without tension.

NOTICE

A heavy unit door may pose a risk of damage! If the unit door is too heavy, damage to the hinges cannot be ruled out, which may compromise functionality.

► Before fitting the unit door, ensure that the unit door does not exceed the permissible weight.

5.3 Unit front dimensions

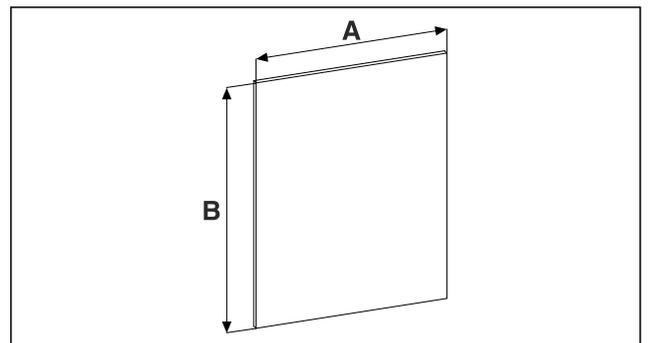


Fig. 3

Niche height	.. 36..	.. 37..
A	595 mm	
B	At least 711 mm maximum value may not exceed the ventilation cross-section of 150 cm ² .	At least 757 mm maximum value may not exceed the ventilation cross-section of 150 cm ² .

A) Appliance type designation

5.4 Decorative door panel unit front dimensions

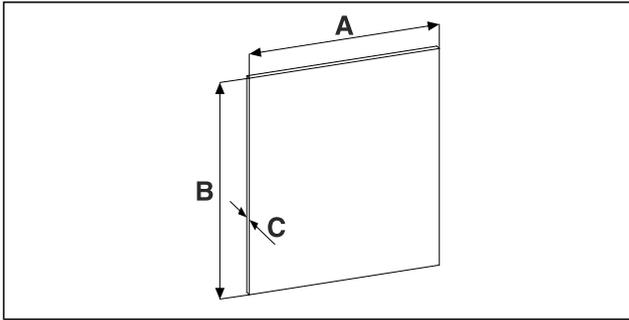


Fig. 4

Niche height .. 36..	
A	585 mm
B	678 mm
C	maximum 4 mm

A) Appliance type designation

5.5 Adjusting the gap dimension without collisions

After you have installed the unit front(s), you must check to ensure that the unit fronts do not collide.

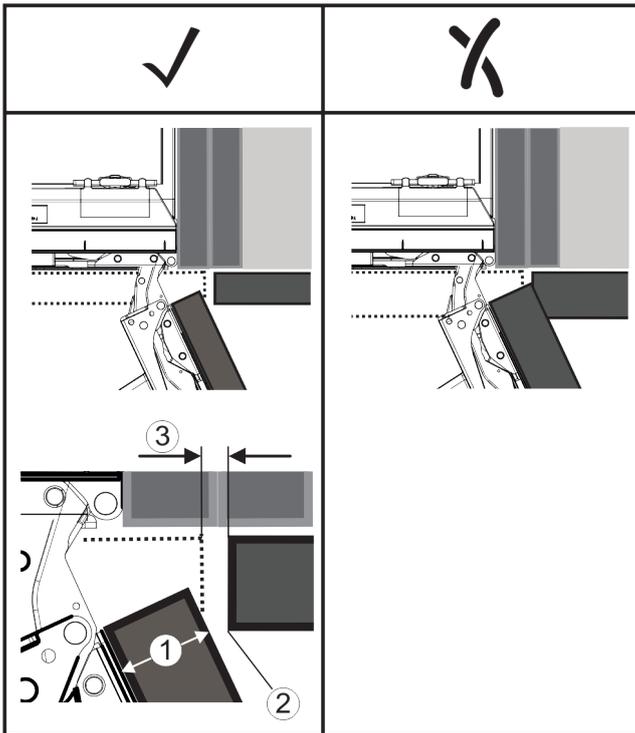


Fig. 5
(1) Front thickness (FT) **(3)** Gap dimension (G)
(2) Edge radius (R)

FD(1) (mm)	R (2) = 0 mm		R = 1,2 mm		R = 2 mm		R = 3 mm	
	Gmin	Gmax	Gmin	Gmax	Gmin	Gmax	Gmin	Gmax
16	0,3	0,9	0,1	0,4	0,1	0,2	0,1	0,2
19	0,7	2,4	0,3	1,9	0,23	3,25	0,1	0,8
20	2	4,3	1,5	3,6	1	3,1	0,6	2,7
22	3,5	6,3	3	5,6	2,6	5,3	2,1	4,6
24	5,5	8,3	5	7,8	4,5	7,4	4	6,9
26	7,6	10,7	7	10,3	6,6	9,9	6,2	9,4

* Depending on model and options

Fig. 6 Gap dimension limit range table

L_{min} = lower limit range for the gap dimension in mm

L_{max} = upper limit range for the gap dimension in mm

Note

When correcting, always ensure that the unit front is adapted to the general appearance of the front.

Check the collision properties and correct accordingly:

- ▶ Determine the front thickness and edge radius.
- ▶ Read the limit range for the gap dimension from the table Fig. 6 0.
- ▶ Compare the gap dimension to the values from the table.
- ▶ Perform one of the following actions according to the evaluated gap dimension.

Gap dimension	Description
$G > L_{max}$	If the gap dimension is greater than both limit values, you do not have to make any corrections.
$G < L_{min}$	If the gap dimension is below the limit values, you must increase the gap dimension. Increasing the edge radius is another option.
$L_{min} \leq G \leq L_{max}$	If the gap dimension is between both limit values, you must work precisely. Collisions may occur quickly in these situations.

6 Transporting appliance

Note when transporting the appliance:

- ▶ Transport the appliance upright.
- ▶ Use two people to transport the appliance.

During first use:

- ▶ Transport the appliance packaged.

When transporting appliances after initial commissioning (e. g. moving or cleaning):

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

7 Unpacking the appliance

NOTICE

Risk of damage to the floor!

- ▶ Protect your floors by covering them before removing packaging from the appliance.

Before you connect the appliance, report any damage immediately to the delivery company.

- ▶ Check the appliance and the packaging for damage during transport. Contact the supplier immediately if you suspect any level of damage.
- ▶ Remove all materials from the back or the side walls of the appliance that may prevent proper installation or ventilation.
- ▶ Remove all protective films from the appliance. Do not use sharp or pointed objects for this.

8 Disposing of packaging



WARNING

Danger of suffocation due to packing material and plastic film!

- ▶ Do not allow children to play with packing material.

Replacing the door hinge

The packaging is made of recyclable materials:

- corrugated board/cardboard
- expanded polystyrene parts
- polythene bags and sheets
- polypropylene straps
- nailed wooden frame with polyethylene panel*

► Take the packaging material to an official collecting point.

9 Replacing the door hinge

9.1 Safety instructions



WARNING

Risk of injury if the door is not reversed correctly!

► Replace the door hinge with specialist personnel.



WARNING

Risk of injury and material damage due to door weight!

► Only change the door hinge if you can carry a weight of 15 kg.

► Change the door hinge with two people.

NOTICE

Live parts!

Damage to electrical components.

► Remove the mains plug before you reverse the door.

9.2 Tool



9.3 Removing covers

► Open the door.

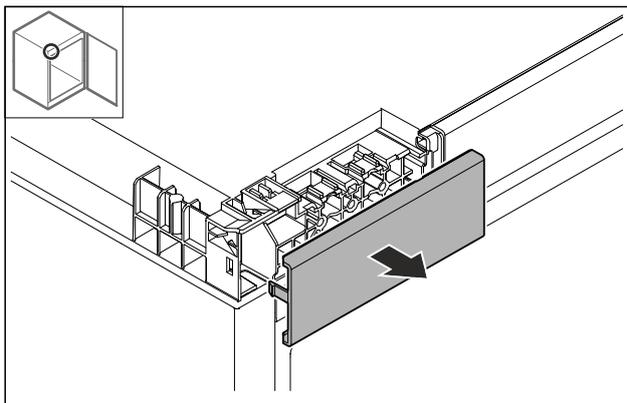


Fig. 7

► Remove cover.

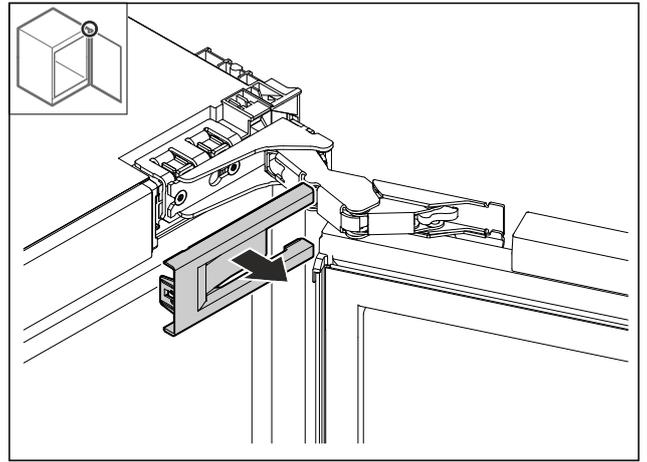


Fig. 8

► Remove cover.

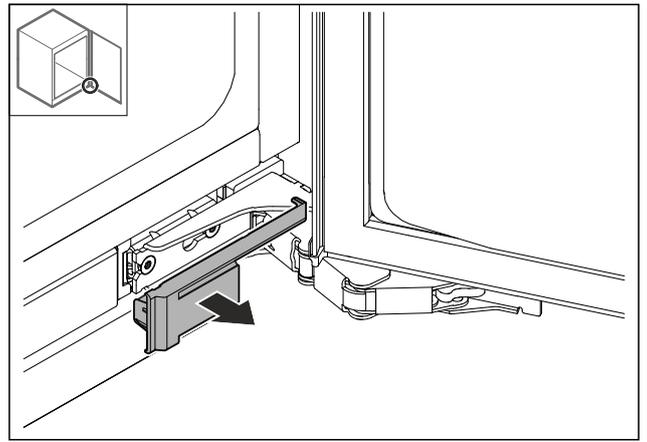


Fig. 9

► Remove cover.

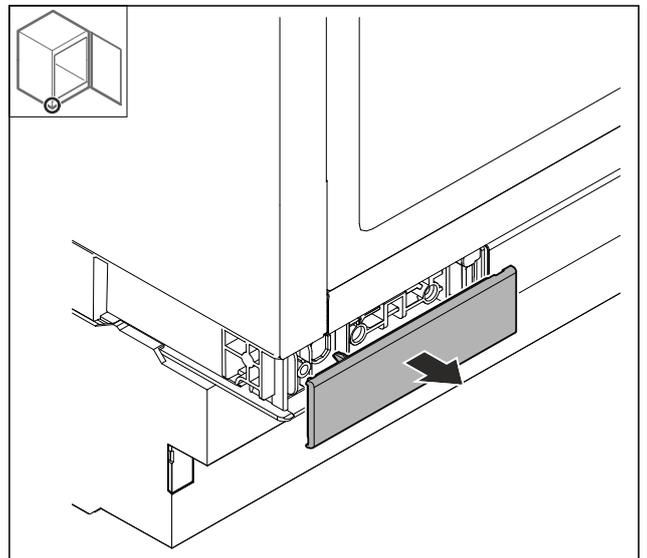


Fig. 10

► Remove cover.

9.4 Detaching the closing damper*

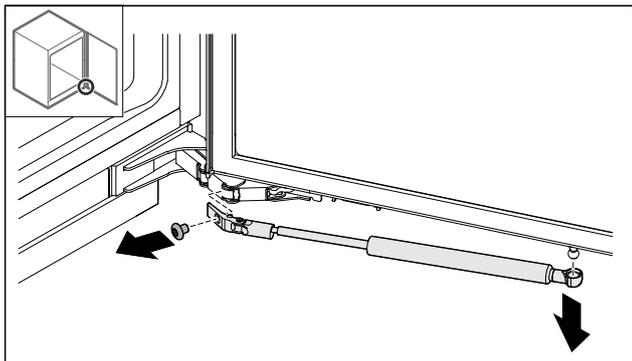


Fig. 11

- ▶ Remove the screw.
- ▶ Take off the closing damper downwards.

9.5 Removing the door

NOTICE

Risk of injury if the door tips out!

- ▶ Hold the door.

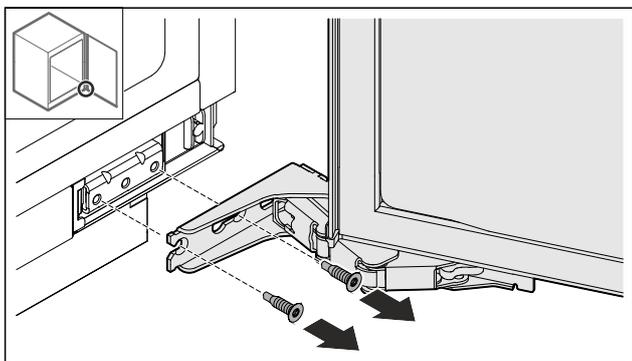


Fig. 12

- ▶ Remove the screws.

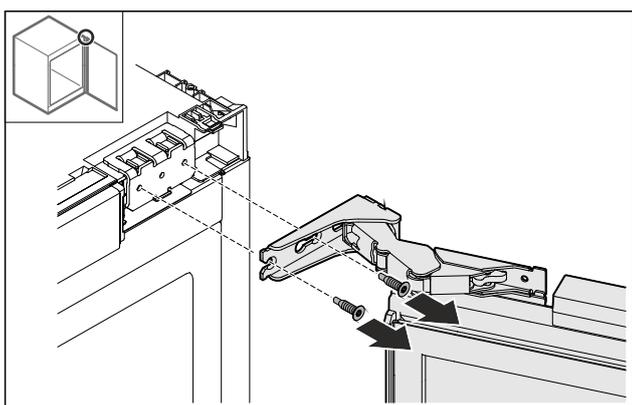


Fig. 13

- ▶ Remove the screws.
- ▶ Remove the door.
- ▶ Place the door on a soft surface.

9.6 Removing the hinges

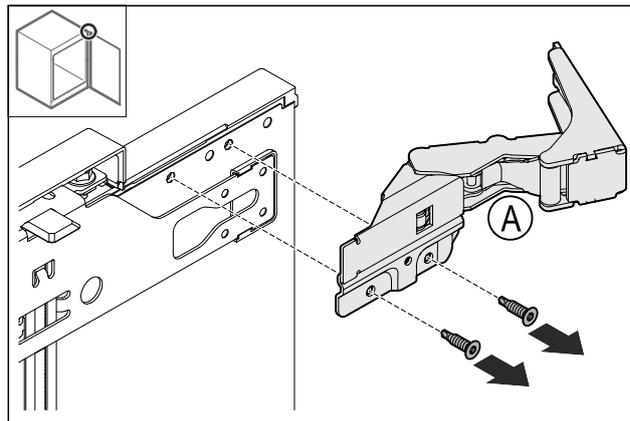


Fig. 14

- ▶ Remove the screws.

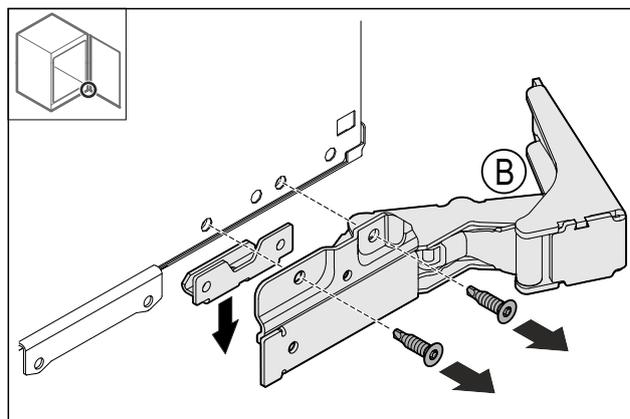


Fig. 15

- ▶ Remove the screws.

9.7 Relocating the mounting bracket

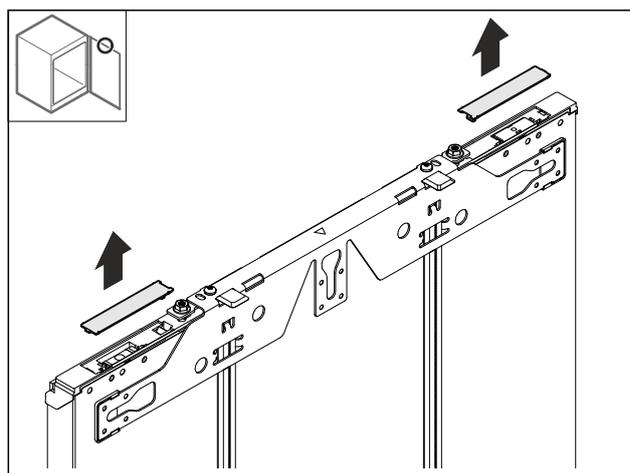


Fig. 16

- ▶ Detach the covers.

Replacing the door hinge

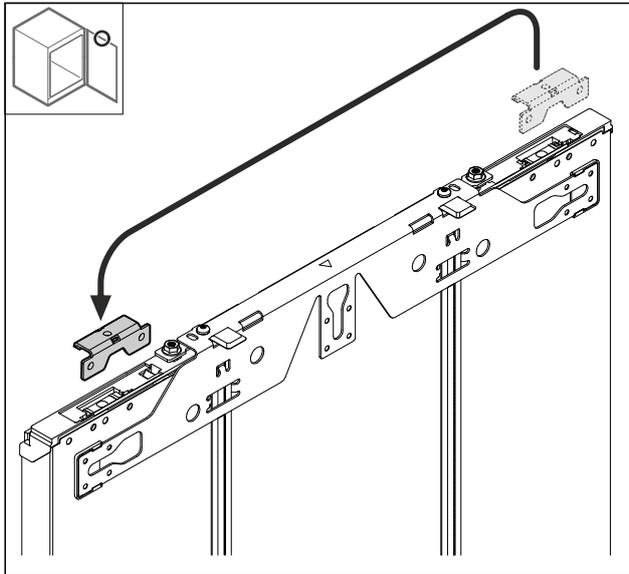


Fig. 17

► Relocate the lower bracket.

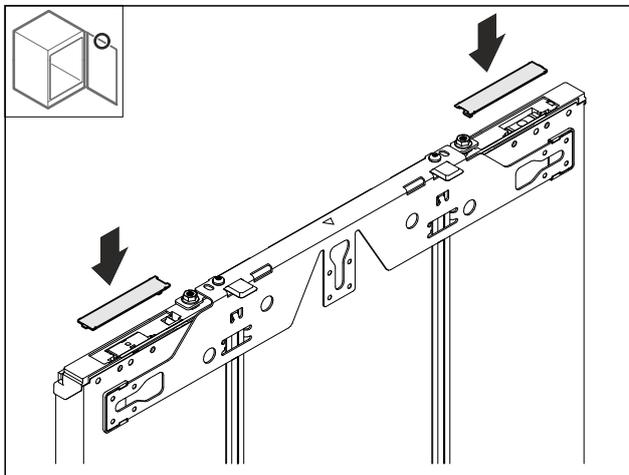


Fig. 18

► Fit the covers.

9.8 Relocating the ball pins*

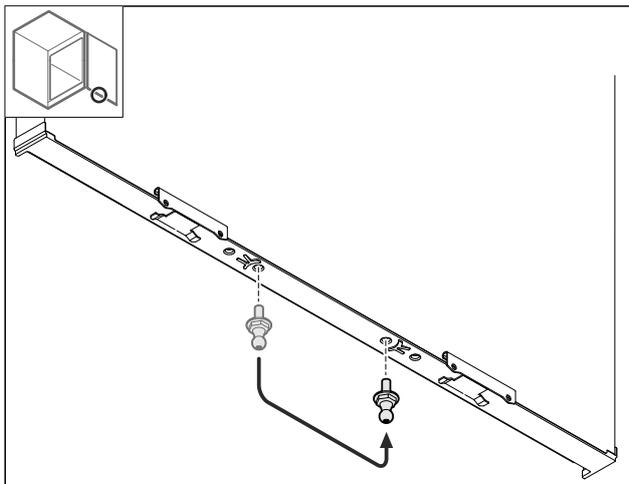


Fig. 19

► Relocate the ball pins.

9.9 Fitting the hinges

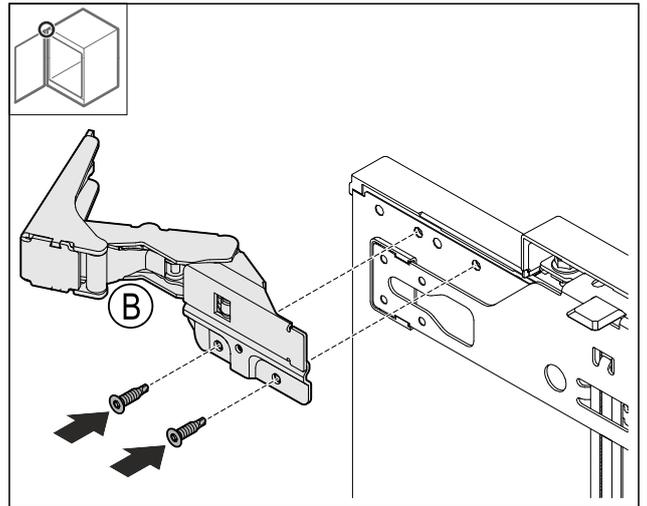


Fig. 20

► Screw on the hinge.

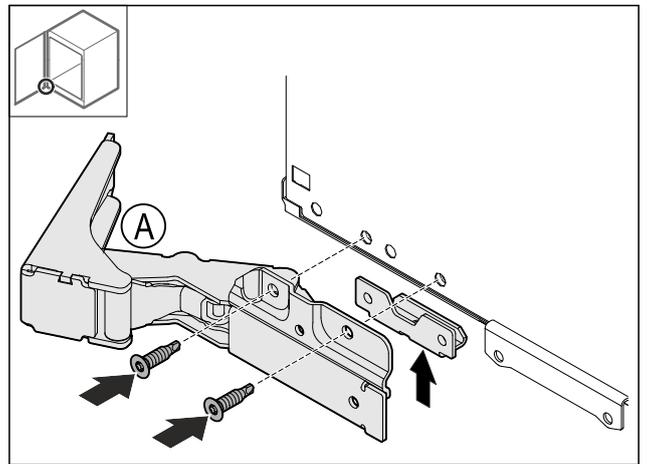


Fig. 21

► Screw on the hinge.

9.10 Relocating the upper bracket

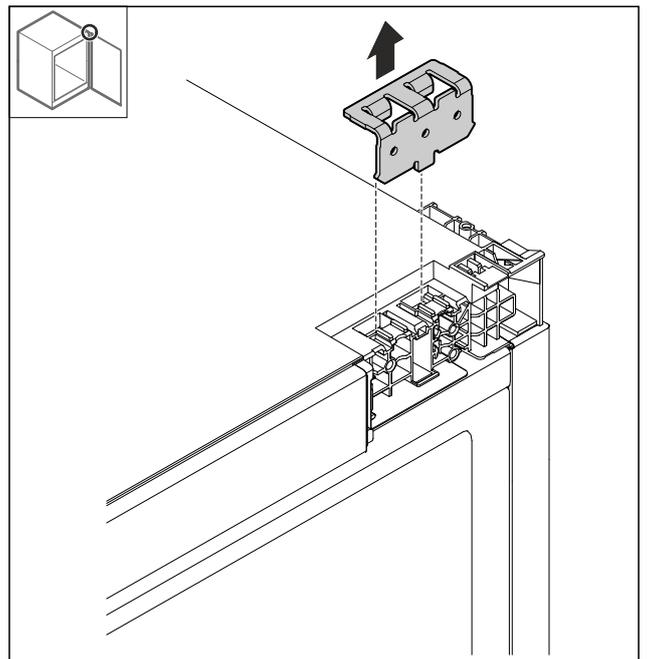


Fig. 22

► Remove the bracket.

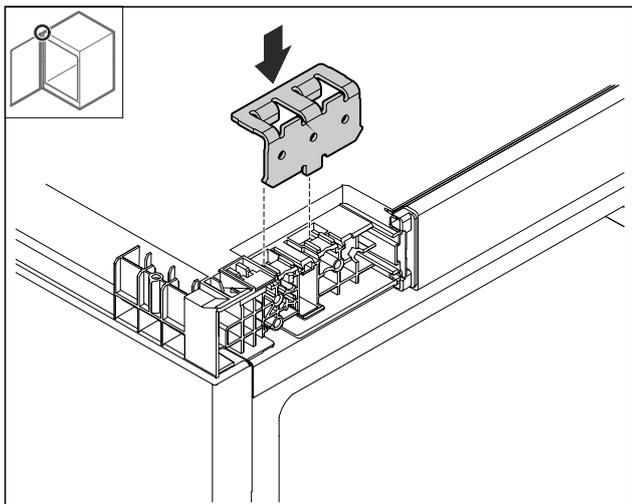


Fig. 23

► Insert the bracket.

9.11 Relocating the bottom bracket

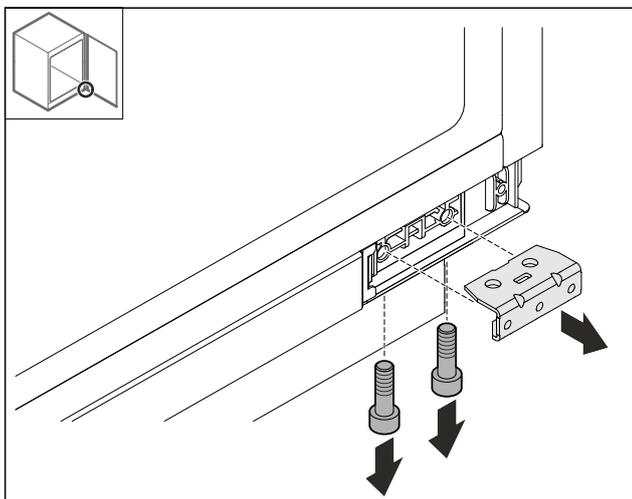


Fig. 24

► Detach the bracket.

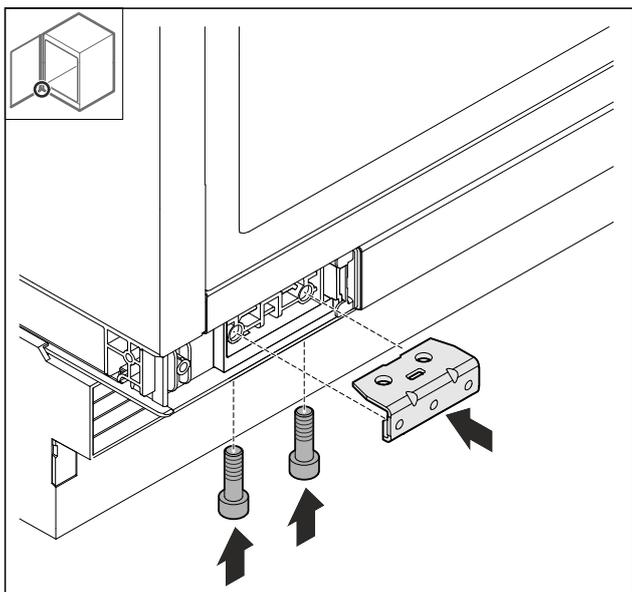


Fig. 25

► Fit the bracket.

9.12 Switch lower bracket

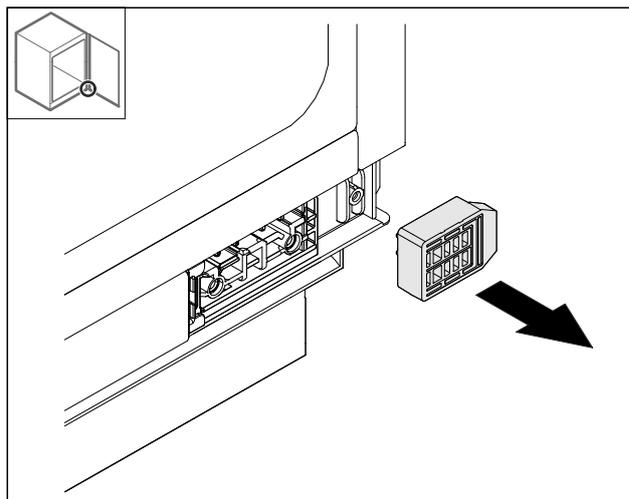


Fig. 26

► Remove the bracket.

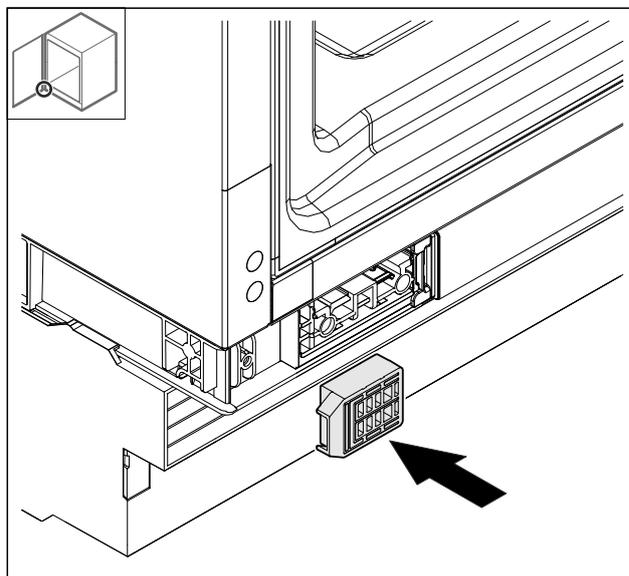


Fig. 27

► Insert the bracket.

Replacing the door hinge

9.13 Fitting the door

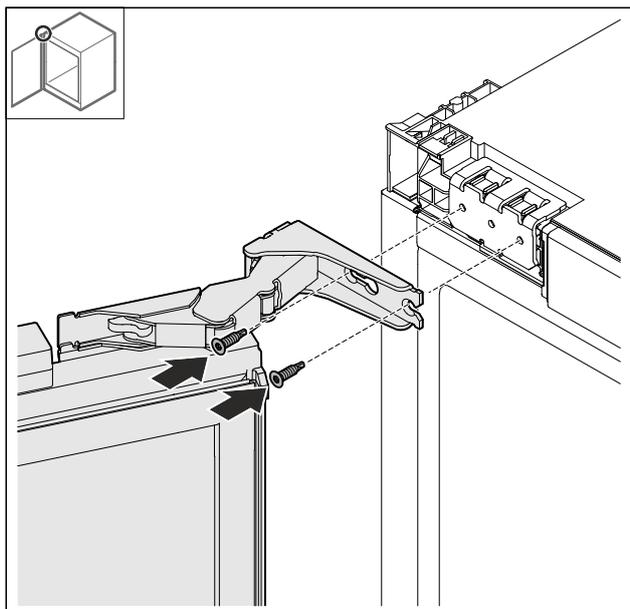


Fig. 28

- Screw on door at the top.

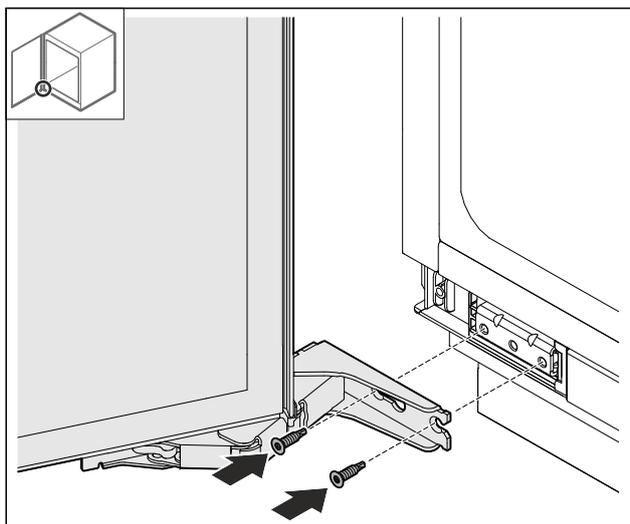


Fig. 29

- Screw on door at the bottom.

9.14 Fitting the closing damper*

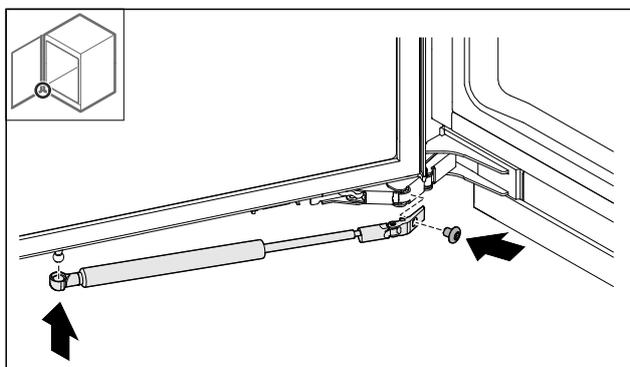


Fig. 30

- Engage the closing damper on the ball pins.
- Screw on the closing damper.

9.15 Putting on the covers

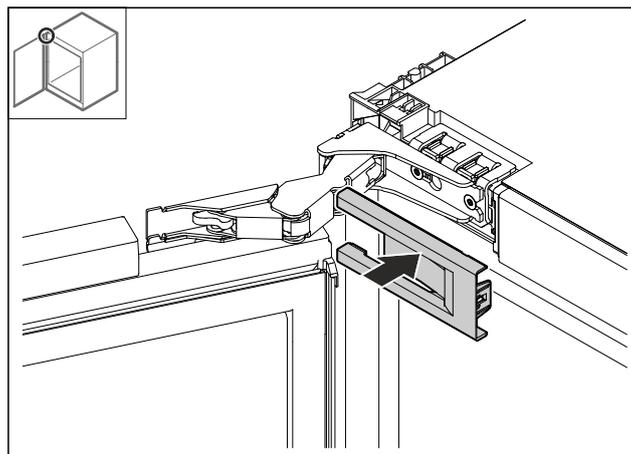


Fig. 31

- Put on the cover.

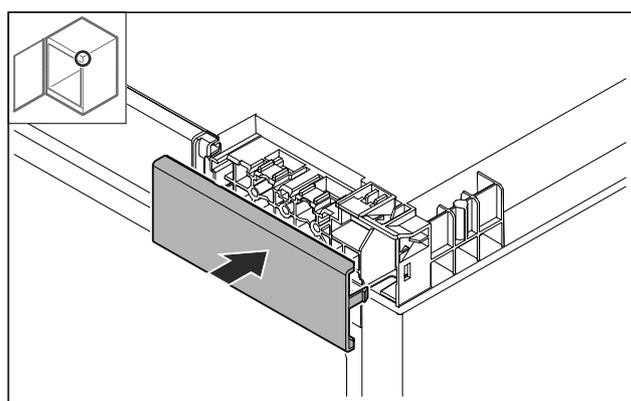


Fig. 32

- Put on the cover.

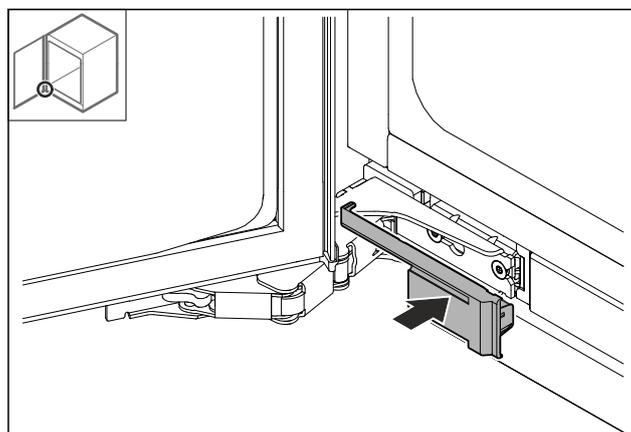


Fig. 33

- Put on the cover.

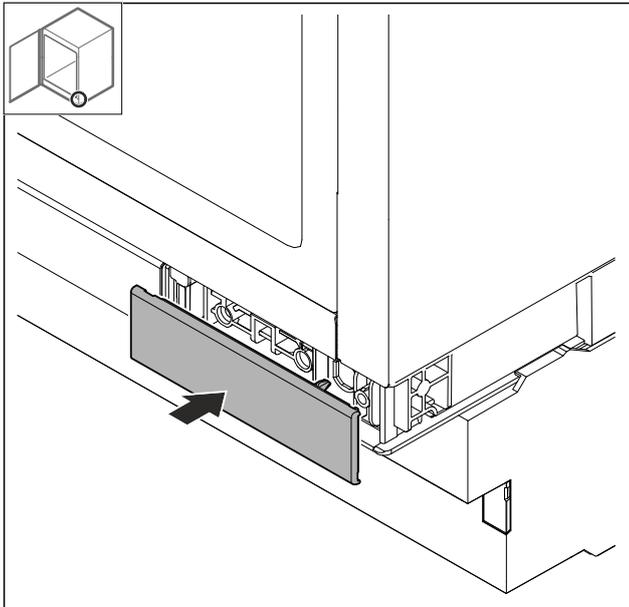


Fig. 34

- Put on the cover.

10 Recessed installation

10.1 Tool

Make sure that the following tools are to hand:

- Torx® 20
- Slotted screwdriver
- Measuring tape
- Pencil
- Cord
- Spirit level

Before installing the appliance in the niche, note the fixing method:	
Lateral fixing	Ceiling mounting
Substructure under a hard worktop such as granite	No granite slab
The appliance is lower than the worktop when the adjustable feet are fully extended.	Appliance sits slightly braced under worktop when adjustable feet are fully extended.
Appliance side panel available for screwing.	

10.2 Preparing the appliance

Before installing the appliance in a niche, make sure that the following requirements are met:

- The door hinge has been hung. You can only change the door hinge from the outside of the niche because you need enough space to do so.
- Plug the mains cable's IEC socket completely into the appliance plug on the back of the appliance.
- Ensure that the IEC socket is tight.
- Use a cord to lay the mains plug to a freely accessible socket.



Fig. 35

NOTICE

Risk of damage if the appliance is moved!

If you move the appliance, you may damage the floor or the appliance's adjustable feet may break off.

Before moving:

- Screw in the levelling feet completely.
- Place a cardboard strip (e.g. packaging) with approx. 100 mm x 600 mm under each of the adjustable feet.

When moving:

- Move the appliance carefully.
- For uneven floors: Carefully lift the appliance.

After moving:

- Remove the cardboard strips.

10.3 Screwing the appliance to the ceiling

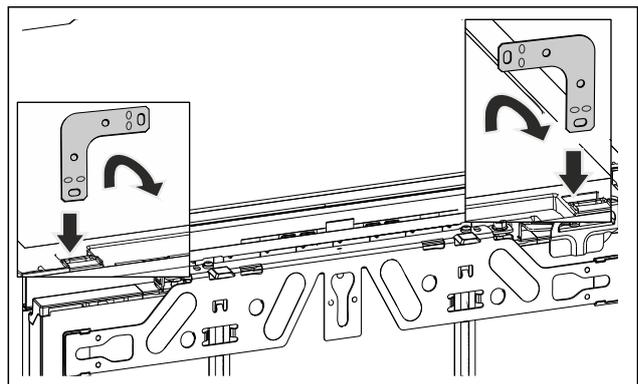


Fig. 36 Example illustration

- Insert the bracket into the opening in the unit ceiling and bend it forwards.



WARNING

Risk of fire due to short circuit!

- When you push the appliance into the niche: do not kink, jam or damage the mains cable.
- The appliance must not be operated with a defective mains cable.

- Slide the appliance into the recess and align, see point (see 10.5 Aligning the appliance).

10.4 Fixing the appliance on the side

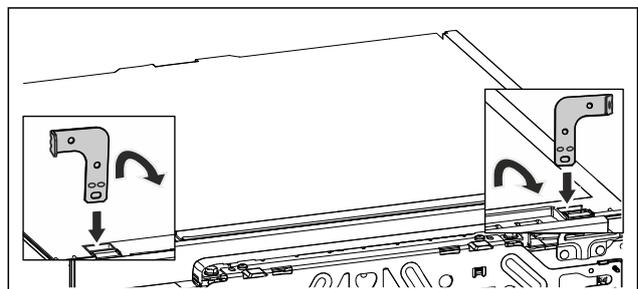


Fig. 37 Example illustration

- Bend one end of each bracket before installation. Insert the straight side into the opening in the appliance cover and bend it forwards.

Recessed installation



WARNING

Risk of fire due to short circuit!

- ▶ When you push the appliance into the niche: do not kink, jam or damage the mains cable.
- ▶ The appliance must not be operated with a defective mains cable.

- ▶ Slide the appliance into the recess and align, see point (see 10.5 Aligning the appliance).

10.5 Aligning the appliance

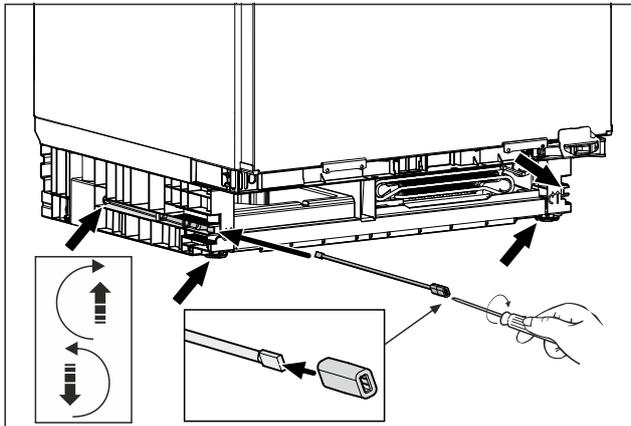


Fig. 38 Example illustration

- ▶ Unscrew the levelling feet to below the worktop.
- ▶ Align the appliance in an upright position using a spirit level.

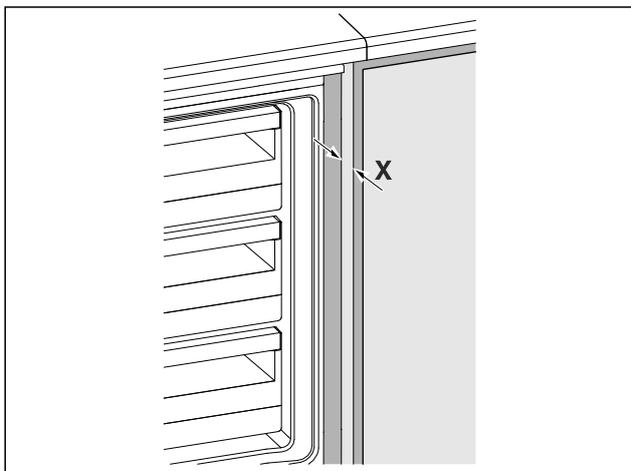


Fig. 39 Example illustration

- ▶ The distance from the front edge of the unit side panel to the appliance body on both sides is **X = 41.5 mm**.
- ▶ If there is no unit side panel, orientate on the worktop.
- ▶ **For units with door stop parts (knobs, sealing lips, etc.):**
- ▶ Subtract the installation dimension (depth of the door stop parts) from the 41,5 mm insertion depth.
- ▶ Unscrew the levelling feet alternately to the maximum. The maximum adjustment travel is 60 mm.
- ▶ Appliance is aligned upright
- ▶ The appliance is slightly braced in the recess between the floor and worktop.

10.6 Fitting the base

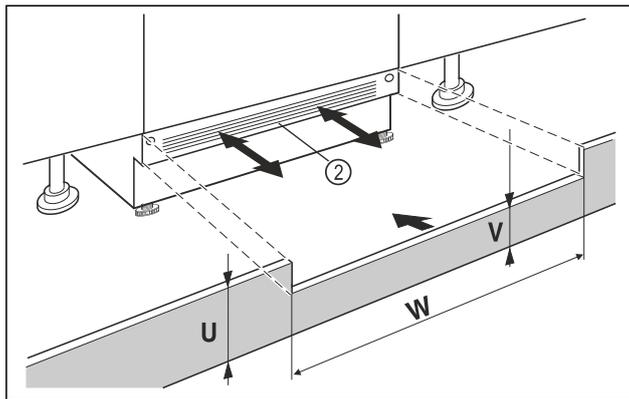


Fig. 40 Example illustration

- ▶ Put on the appliance base cover Fig. 40 (2) but do not fix it in place yet.
- ▶ Position the unit door and unit base panel for testing
- ▶ If the base panel is visible Fig. 40 (2), pull it forwards so that the front edge of the ventilation grille and the unit base panel are level.
- or-
- ▶ If the base panel is concealed Fig. 40 (2), push it all the way back.
- ▶ Ensure that the ventilation slots are completely free: If necessary, cut the height of the unit base panel Fig. 40 (U) to size!
- ▶ Adjust the web height Fig. 40 (V) under the appliance base panel Fig. 40 (2) along the niche width Fig. 40 (W).

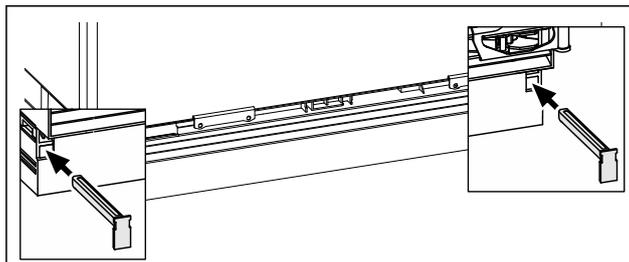


Fig. 41 Example illustration

- ▶ Fix the appliance base panel: Insert the latch while holding the appliance base panel.
- ▶ Fasten the unit base panel.

10.7 Screwing the appliance into the niche

Ceiling mounting:

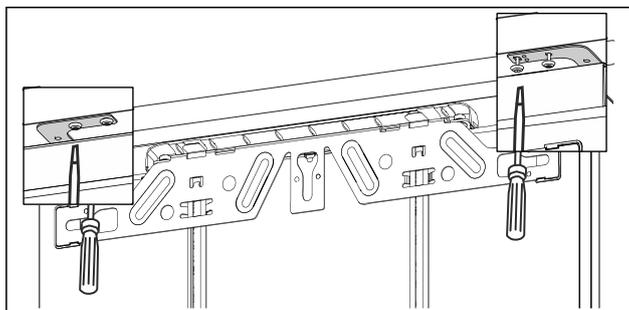


Fig. 42 Example illustration

- ▶ For mounting under the worktop, screw on the mounting brackets with two screws each underneath the worktop.

Lateral fixing:

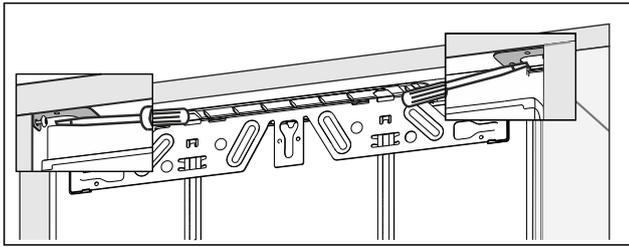


Fig. 43 Example illustration

- ▶ For side mounting, screw the mounting bracket into the niche with one screw on the right and one on the left.

11 Fitting the unit door

- ▶ Fit the handle to the unit door

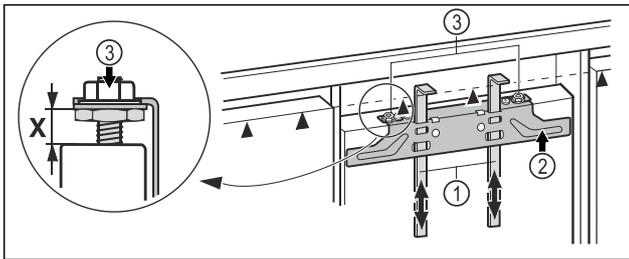


Fig. 44

- ▶ Check the default setting of $X = 8 \text{ mm}$. (Distance between appliance door and lower edge of traverse)
- ▶ Push the assembly aids Fig. 44 (1) up to unit door height. Lower stop edge ▲ of the assembly aid = upper edge of the unit door to be assembled.
- ▶ Unscrew the fastening bar Fig. 44 (2) using the lock nuts Fig. 44 (3).

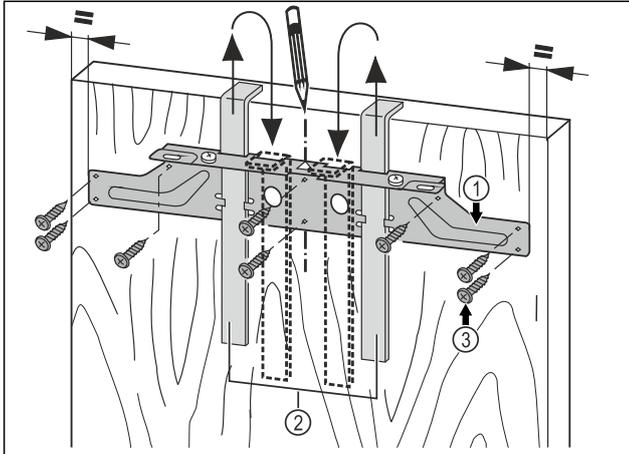


Fig. 45

- ▶ Hang the fastening bar Fig. 45 (1) with the mounting aids on the inside of the unit door Fig. 45 (2).
- ▶ Align the fastening bar Fig. 45 (1) in the centre of the door.
- ▶ The distances to the outer edge are the same on the left and right.
- ▶ **For chipboard doors:**
- ▶ Tighten the mounting bar Fig. 45 (1) with at least 6 screws Fig. 45 (3).
- ▶ **For panelled doors:**
- ▶ Screw the mounting bar Fig. 45 (1) to the edge with 4 screws Fig. 45 (3).
- ▶ Pull the assembly devices Fig. 45 (2) upwards and push them, at an angle, into the receiving openings.

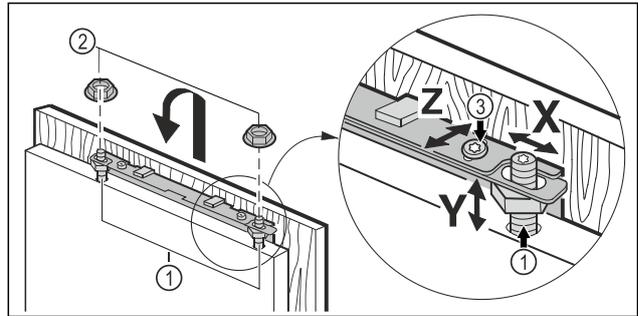


Fig. 46

- ▶ Hook the unit door onto the adjustment bolts Fig. 46 (1) and screw the lock nuts Fig. 46 (2) loosely onto the adjustment bolts.
- ▶ Close the door.
- ▶ Check the distance of the door against the surrounding unit doors.
- ▶ Align the unit door sideways: Move unit door in X direction.
- ▶ Align the unit door in height Y and in the lateral inclination: Adjust the adjustment bolt Fig. 46 (1) with a screwdriver.
- ▶ The unit door is aligned flush with the surrounding unit doors.
- ▶ Tighten the lock nuts Fig. 46 (3).

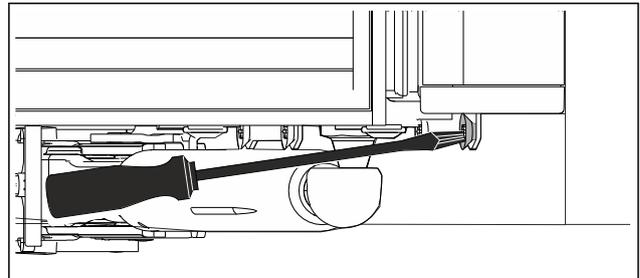


Fig. 47

- ▶ Screw the unit door to the appliance door.
- ▶ Pre-drill the fastening holes in the unit door (if necessary, pre-pierce with a graver).
- ▶ Screw the appliance door to the unit door using screws through the mounting brackets.

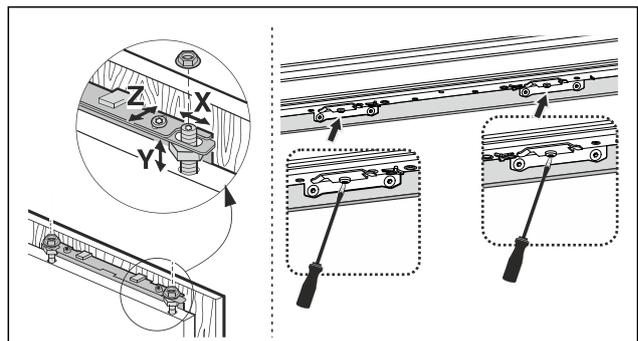
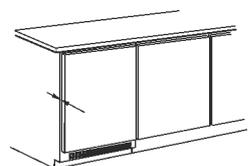


Fig. 48

- ▶ Align the unit door at depth Z: loosen the screws at the top and bottom of the door, then move the door.
- ▶ For good access to the screws under the door, open the door approx. 45° wide.
- ▶ Do not allow any burrs or sealing lips to touch - this is important for correct function!
- ▶ Allow an air gap of 2 mm between the unit door and the cabiner carcass.



Connecting the appliance to the power supply

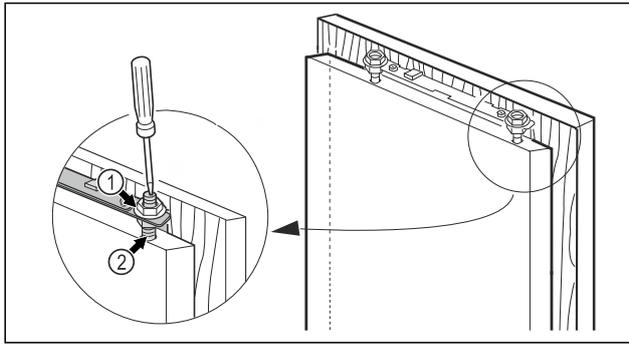


Fig. 49

- ▶ Check the fit of the door and readjust if necessary.
- ▶ Tighten all screws.
- ▶ Tighten the lock nuts Fig. 49 (1) with a hexagon spanner 13, stabilising the adjusting bolt Fig. 49 (2) with a screwdriver.

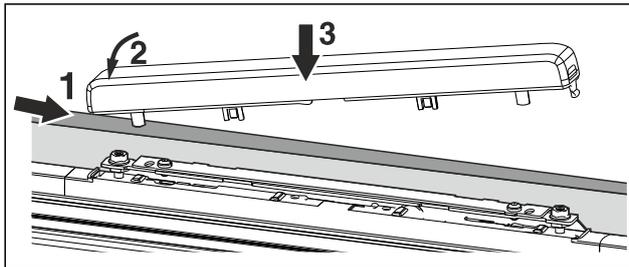


Fig. 50

- ▶ Position the upper cover and engage it.

12 Connecting the appliance to the power supply



WARNING

Danger of electric shock and injury due to damaged appliance or damaged mains cable!

Danger of cuts and fatal injuries. If the appliance or the mains cable is damaged during transport, you may be electrocuted. You could also cut yourself on damaged parts of the appliance housing.

- ▶ Check the appliance and the mains cable for damage after transport.
- ▶ Never put the appliance into operation if the appliance or the mains cable are damaged.
- ▶ Contact Customer Service.

You can connect your appliance to the mains using the power cable supplied separately. The mains power cable has an appliance coupler at one end and a mains plug at the other end.

Make sure that the following requirements are fulfilled:

- The appliance and power cable are undamaged.
- The appliance is installed in accordance with the regulations. (see 10 Recessed installation)
- Requirements for the electrical connection are met. (see 2 Installation conditions)
- Dimensions for connection in accordance with regulations are known and observed.
- Mains voltage and frequency correspond to the specifications on the type plate.
- The socket is earthed according to the regulations and fused.
- The fuse tripping current is between 10 A and 16 A.

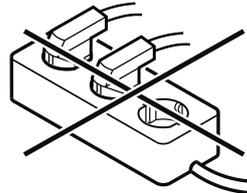
NOTICE

Danger of damage to incorrect operation!
Damage to the electrical components of the appliance.
▶ Only use the supplied mains cable.



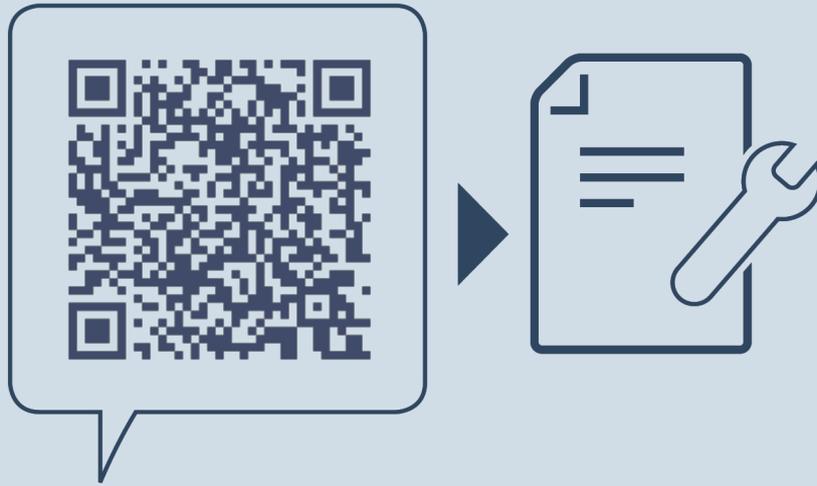
WARNING

Danger of fire due to incorrect connection!
Burns.
Damage to the appliance.
▶ Do not use an extension cable.
▶ Do not use distributor blocks.



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.
▶ Connect the mains cable plug to the power supply. Ensure that the plug is tightly in the socket.
▶ If no action occurs within 60 seconds: The standby symbol fades or disappears.*
▶ The appliance is connected. For information regarding first use, see the following section or the operating instructions.



home.liebherr.com/fridge-manuals

EN base unit fridges and freezers

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