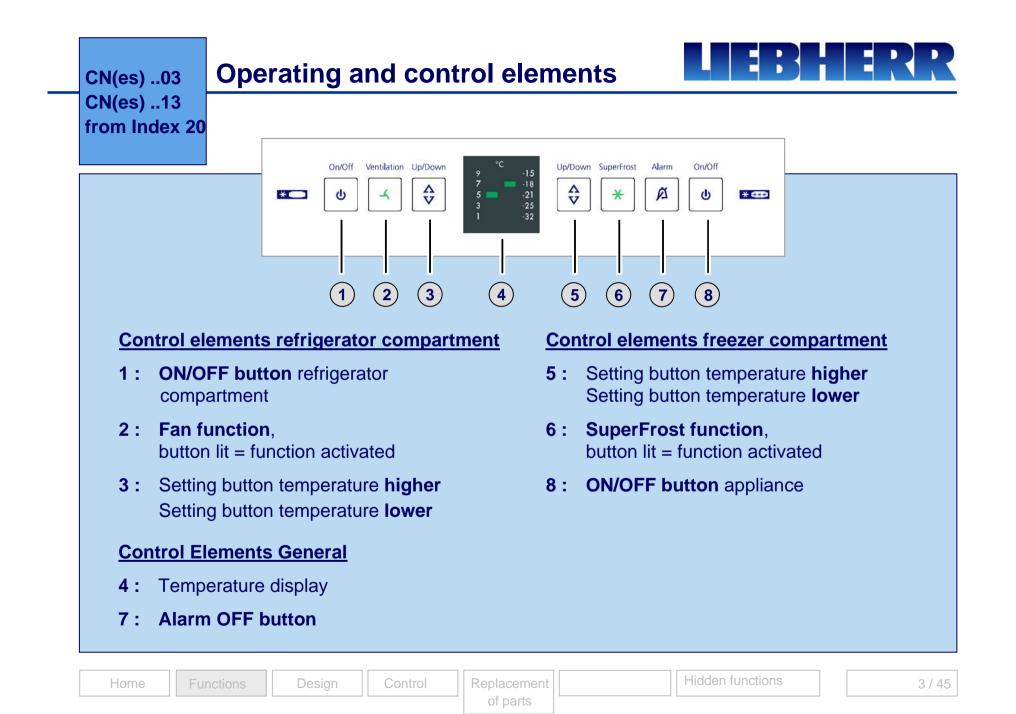




# **Functions**



from Index 20		
Temperature control:	electronic	
Adjustable temperature range:	Refrigerator compartment: Freezer compartment:	+1°C to +9°C -15°C to -32°C
Temperature display:	set value	
Temperature alarm:	Refrigerator compartment: Freezer compartment:	
• Door alarm:	Refrigerator compartment: Freezer compartment:	audible audible
• Fan:	Refrigerator compartment:	yes

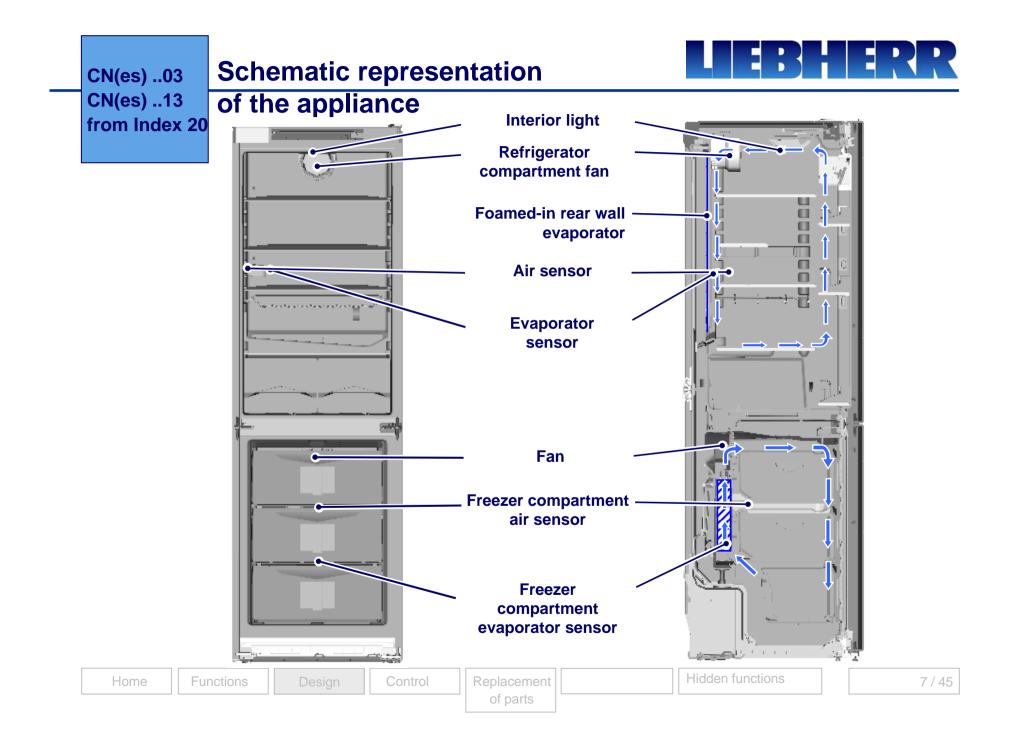
Control

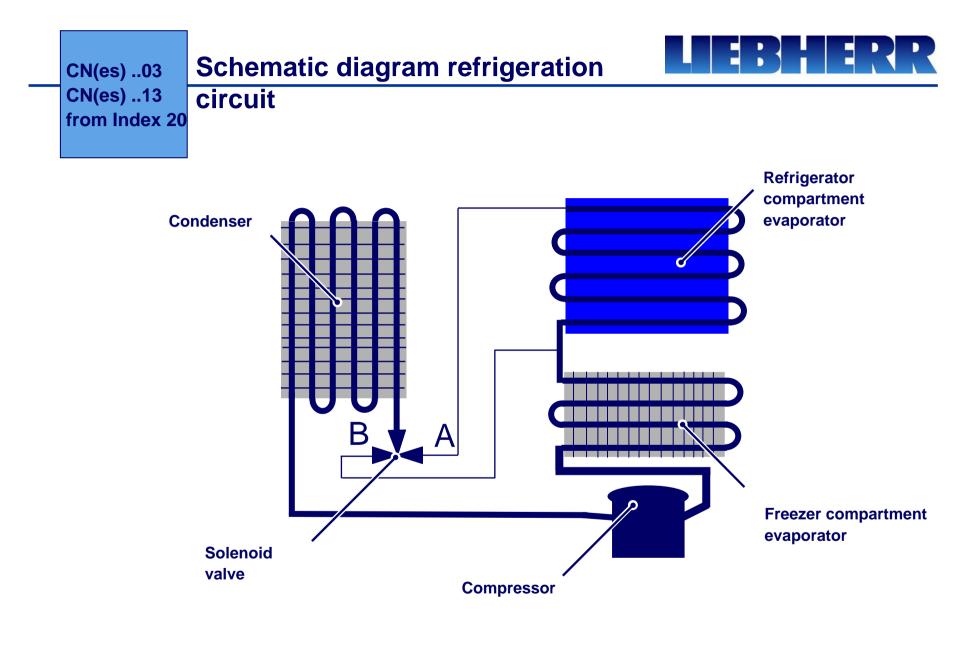
Home

Defrosting:	Refrigerator compartment:	automatic
	Freezer compartment:	automatic
Interior light:	Refrigerator compartment:	yes
	Freezer compartment:	no
SuperFrost:	automatic, time-controlled, 65	hours
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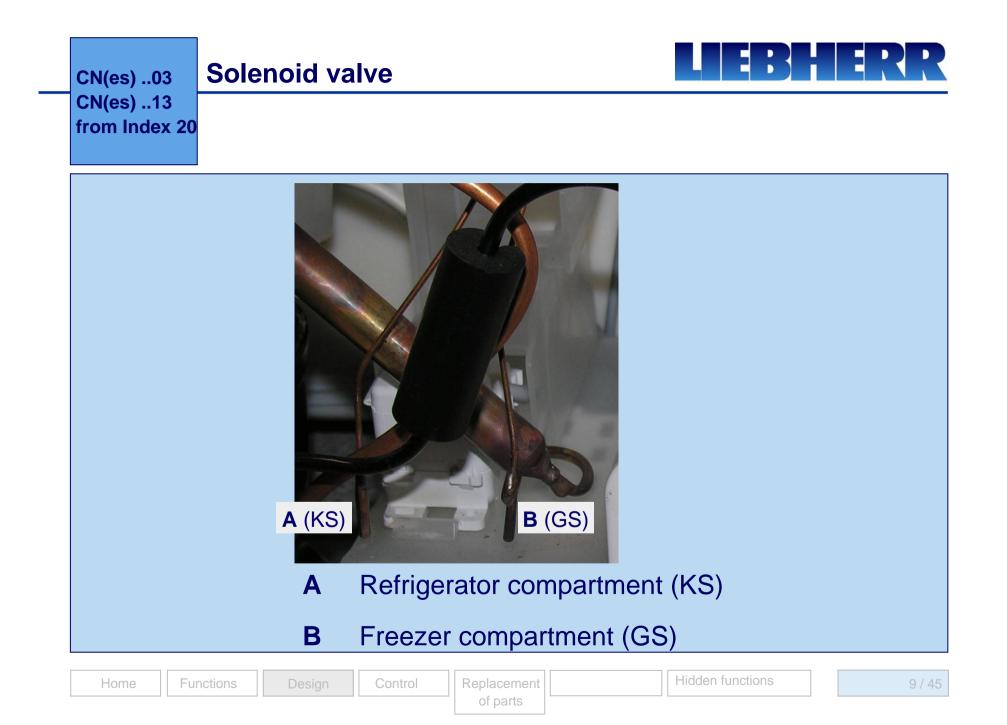


# Design





Home	Functions	Design	Control	Replacement	Hidden functions	8 / 45
				of parts		





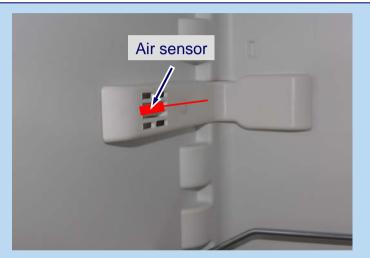
# Control

**Refrigerator compartment** 



45

air sensor



**Position:** 

Middle of refrigerator compartment, left.

### Depending on this sensor

- and the freezer compartment air sensor, the compressor is switched OFF.
- the solenoid valve is switched in B direction (freezer only).

Home	Functions	Design	Control	Replacement	Hidden functions		11/2
				of parts		-	

### **Refrigerator compartment**



### evaporator sensor



### Depending on this sensor

- or the freezer compartment air sensor, the compressor is switched ON.
- the solenoid valve is switched in A direction (refrigerator + freezer).
- the defrosting phase is ended.

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**Position:** 

Foamed-in on a level with the air sensor cover.

fan

### LIEBHERR



**Refrigerator compartment** 

### **Position:**

Beneath the ceiling of the appliance.

### Fan ON when,

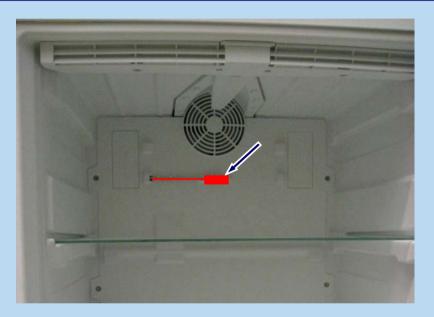
- upon startup, the temperature is +8°C at the evaporator sensor	and
- fan function is ON	and
- compressor ON	and

- refrigerator compartment door is closed.

### **Freezer compartment**



### air sensor



### **Position:**

Clipped into sensor holder on air duct panel.

### Depending on this sensor

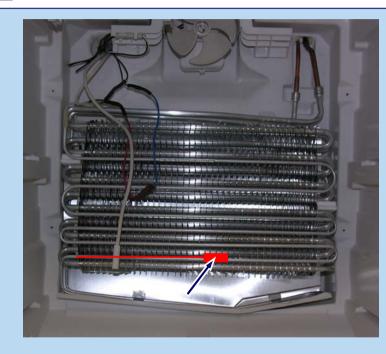
- and the refrigerator compartment air sensor, the compressor is switched OFF.
- or on the refrigerator compartment evaporator sensor, the compressor is switched ON.

Home	Functions	Design	Control	Replacement	Hidden functions	14 / 45
				of parts		

### **Freezer compartment**



### evaporator sensor



### **Position:**

Slipped into lamellar evaporator.

### Depending on this sensor

- and on the freezer compartment air sensor, the freezer compartment fan switches ON.
- the defrosting phase is ended.

Home	Functions	Design	Control	Replacement	Hidden functions	15 / 45
				of parts		

### **Freezer compartment**





### **Position:**

Clipped into lamellar evaporator and laid in defrost water drain tray.

### Defrosting phase is initiated

- in case of startup after 6 hours cumulative compressor runtime.
- in case of normal mode after 6-60 hours cumulative compressor runtime, depending on number and duration of door openings.

### Defrosting phase is ended

- when freezer compartment evaporator sensor has reached +5°C
- when max. defrosting time of 50 minutes has been reached.

Home	Functior
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fan

### **Freezer compartment**





### **Position:**

and

Attached behind air duct panel in fan module.

### Fan runs, when:

- freezer compartment door is closed
- compressor ON
- and - freezer compartment evaporator sensor switch-on value (startup from -25°C)

Home	Functions	Design	Control	Replacement	Hidden functions	
				of parts		



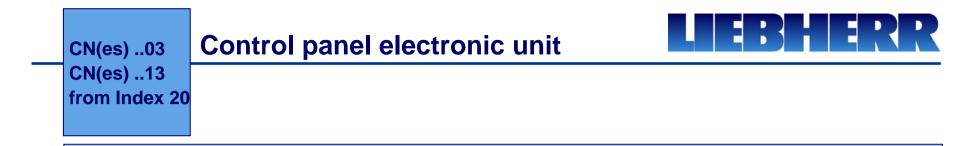


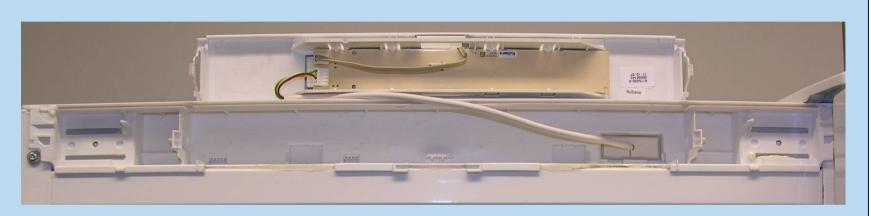
# Replacement of parts



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- Draw front panel forwards.
- Disconnect and detach bus connector.
- Disconnect PCB carrier from front housing.
- Disconnect electronic unit of the control panel from the PCB carrier.





**Refrigerator compartment** 



air sensor



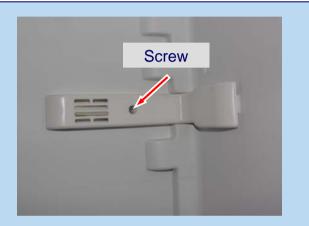
### Procedure

- Remove stopper
- Undo screw
- Draw air sensor out of the cover.

### Info on repair kit!

Sensor is cut off and repaired using repair kit (with repair instructions).

Control





Functions

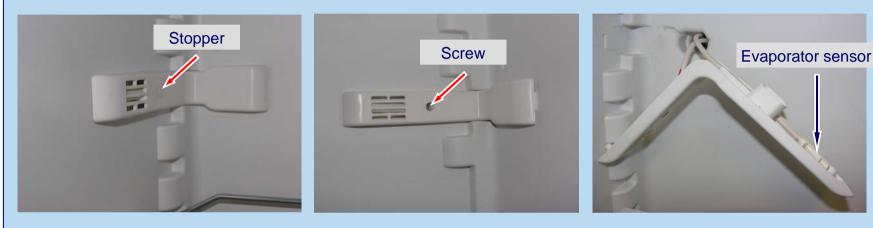
of parts

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### **Refrigerator compartment**



### evaporator sensor



### Procedure

- Remove stopper
- Undo screw
- Disengage air sensor
- Foamed-in evaporator sensor is completely replaced with repair kit
- Replace cover
- Clip air and evaporator sensor into place

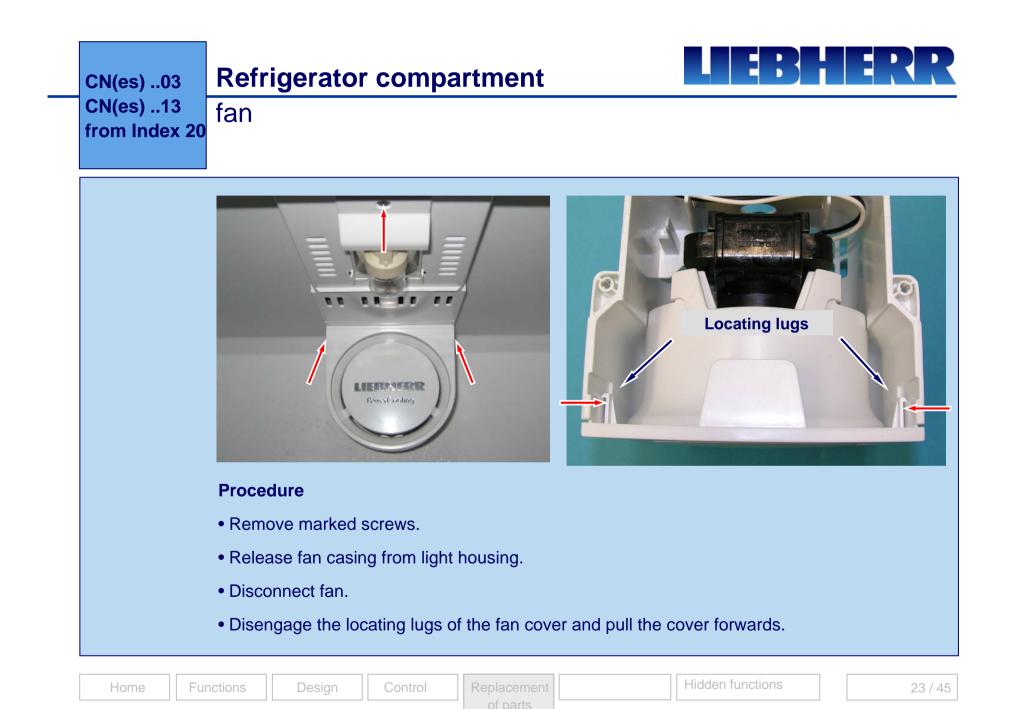
Design



Sensor is repaired using repair kit (with repair instructions).



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### **Refrigerator compartment**

interior light



### Procedure

- Pull down the light cover.
- Light cover is only clipped on.

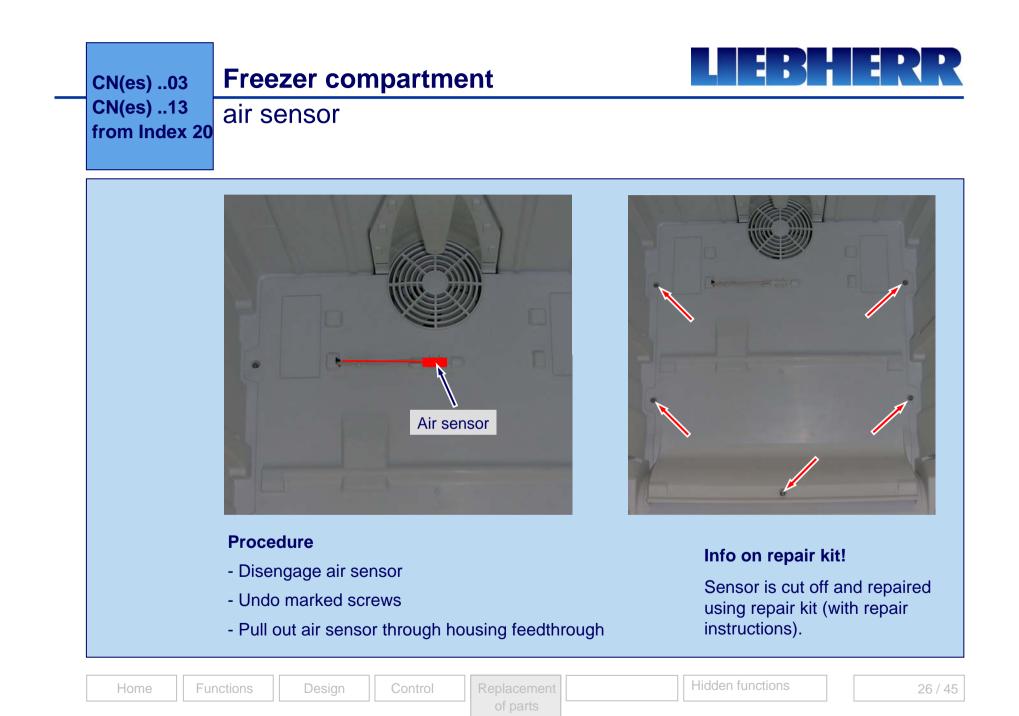
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- Door magnet is clipped into the faceplate above the door seal.
- Press the locating lug in a little and lever out the door magnet.

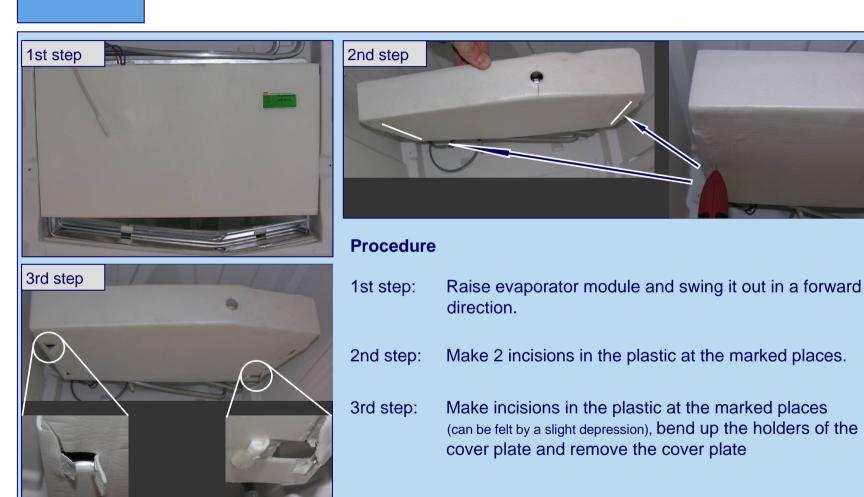
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### LEBHERR

CN(es) ..03 CN(es) ..13 from Index 20

### Freezer compartment evaporator sensor

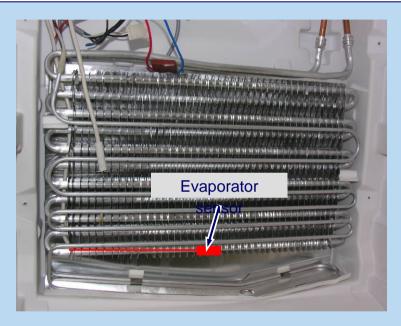


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### **Freezer compartment**

### evaporator sensor



### Procedure

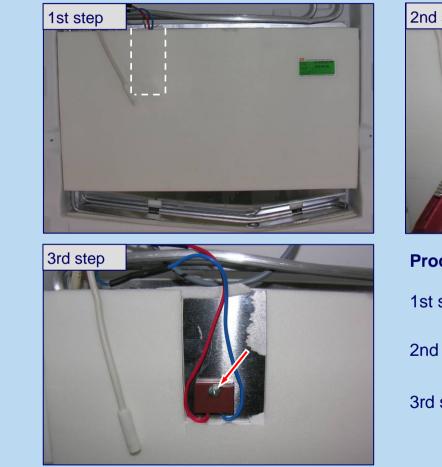
- Pull evaporator sensor out of the lamellas
- Pull out evaporator sensor through housing feedthrough

### Info on repair kit!

Sensor is cut off and repaired using repair kit (with repair instructions).



### Freezer compartment temperature fuse





### Procedure

1st step:Feel for position of temperature fuse.2nd step:Make an incision in the plastic.3rd step:Undo screw

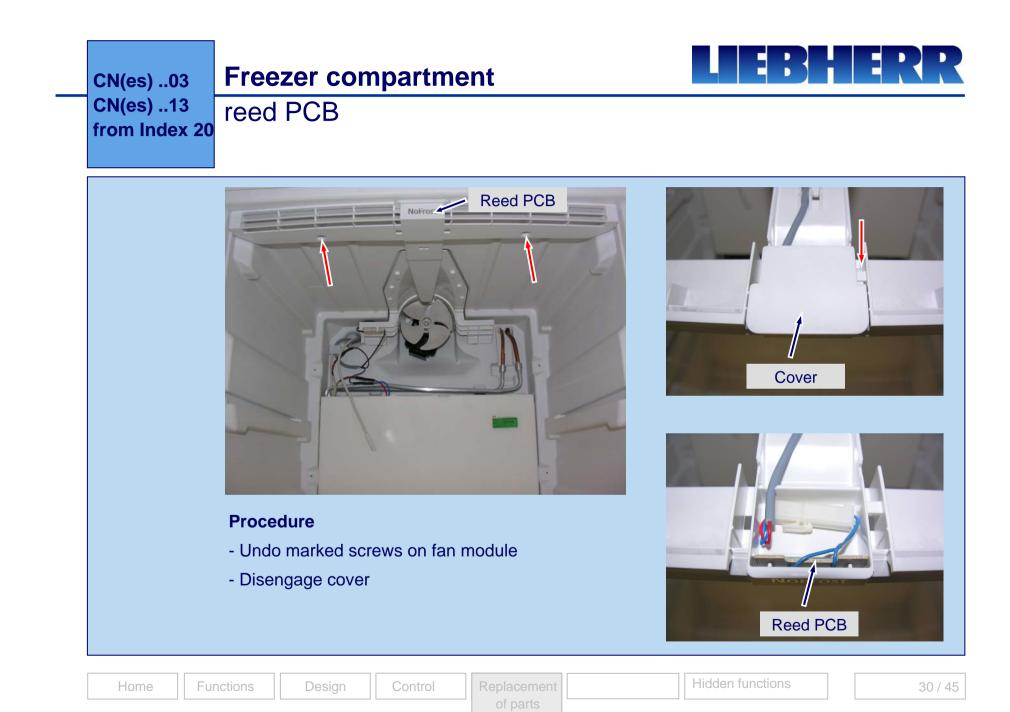
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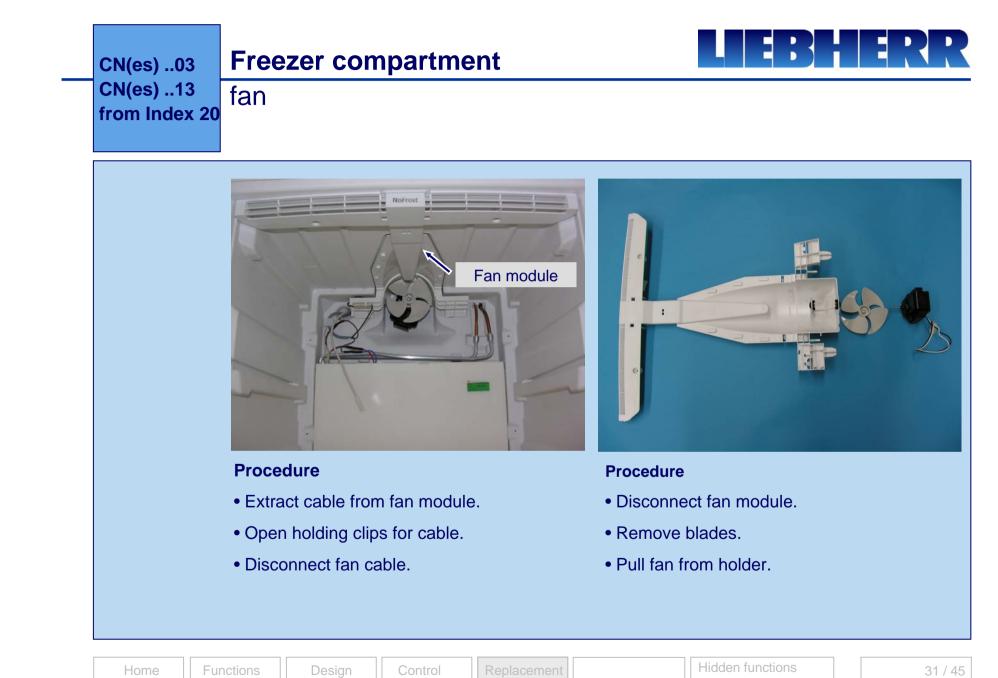
Functions Design

Control Repl

Hidden functions

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Home	Functions	Design	Control

Replacement



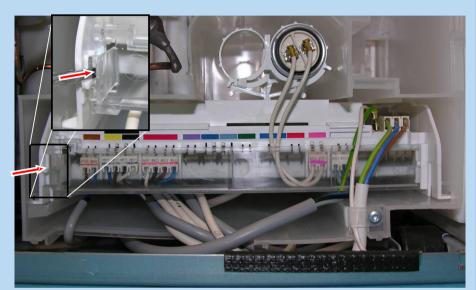




**Power PCB** 

#### **Remove cover**

- Disengage marked retaining clips.
- First draw the cover out in a downward direction and then lift it for removal.

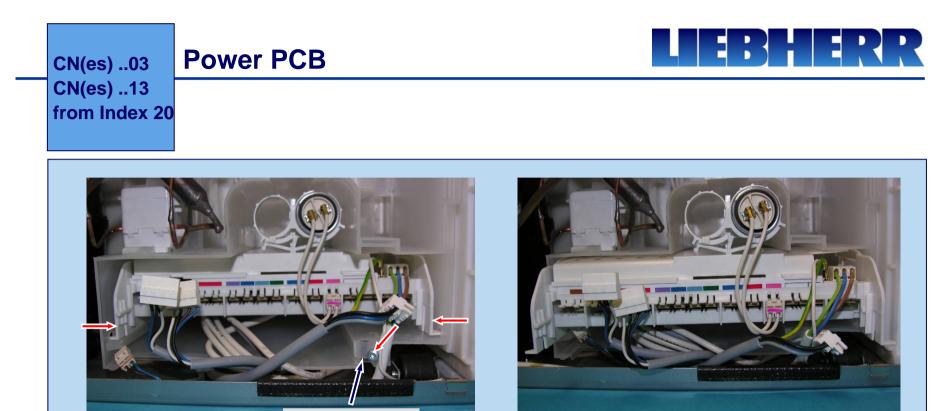


### Cable clips

• Disengage the cable clip at the marked location.

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Control



Strain relief

### To pull out slide-in unit

- Pull off front PCB connector.
- Release strain relief (screw) of the supply cable.

Design

- Disengage the slide-in unit at the marked locations and pull it forwards for removal.
- Pull off rear PCB connector.

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# Hidden functions

CN(es)13	Service mer		
from Index 20	on/off ★ <b>少</b>	Ventilation Up/Down	Up/Down SuperFrost Alarm On/Off
	nu comprises function vation of a demo mod		ne service technicians as well as
Start of service	menu:		witched ON. Can be called only with freezer
		compartment button Press "Up/Down" + '	s. 'ON/OFF" together for about 5 seconds.
Display, active	service menu:	•	
Display, active Sequence of functions:	service menu: 9°C LED:	Press " <b>Up/Down</b> " + '	
Sequence of		Press "Up/Down" + ' SuperFrost flashes	' <b>ON/OFF</b> " together for about 5 seconds.
Sequence of	9°C LED:	Press "Up/Down" + ' SuperFrost flashes Manual defrosting	" <b>ON/OFF</b> " together for about 5 seconds. : Freezer compartment defrost heater is activated
Sequence of	9°C LED: 3°C LED:	Press "Up/Down" + ' SuperFrost flashes Manual defrosting Demo mode	"ON/OFF" together for about 5 seconds. : Freezer compartment defrost heater is activated : Appliance is switched ON, without refrigeration

of parts

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On/Off Ventilation Up/Down On/Off Ventilation Up/Down On/Off On/Off

Service menu overview

Service men	u		Menu			Ор	eration		Selection Function elements			
Manual defros	ting		9°C LED	Ρ	Press Supe	erFro	ost button		<b>Defrosting ON</b> , -15°C LED and -32°C LED flash alternately with SuperFrost LED			
Demo mode			3°C LED static		Press Supe	or <b>⊑r</b> /	ost button		Demo mode activated Demo mode deactivated			
Demo mode			3°C LED flashes fast	ľ		511 10						
Panel test		$\mathbf{\uparrow}$	7°C LED	Р	Press Supe	erFro	ost button		Press buttons, door closed/open			
Service mode		← Up/Down button	5°C LED	Ρ	Press Supe	erFro	ost button		Up/ Down button ✔/个	LEDS OF 9°C LED 7°C LED 9°C LED 5°C LED 9°C LED 9°C LED 7°C LED 7°C LED 5°C LED	<ul> <li>Solenoid valve position B</li> <li>Compressor ON</li> <li>Solenoid valve position A</li> <li>Freezer compartment fan ON</li> <li>Freezer compartment defrost h ON</li> <li>Light ON</li> </ul>	
Home	Functions		Design	С	ontrol	F	Replacement			Hid	den functions	39 / 4

of parts

rom Inc		→ → → → → → → → → → → → → → → → → → →	Yown SuperFrost Alarm On/Off	3
Step	Display	Operation	Display following operation	Testing option / Info
1	nenu start Set values	Press " <b>Up/Down</b> " and " <b>ON/OFF</b> " together for 5 seconds	9°C LED static <sup>1)</sup> , SuperFrost LED flashes	Activation service menu/ manual defrosting selected
2	<b>lefrosting</b> activation of def 9°C LED static <sup>1)</sup> , SuperFrost LED flashes	Press SuperFrost button	-15°C and -32°C LED flash alternately with SuperFrost LED	Manual defrosting activate
End	The refrigerator compartment s	neters reached. ng, the -15°C LED and -32°C LED alway et value can be adjusted and is displaye 3°C LED is displayed with fast flash inst	ed, then return to the display of th	

CN(es)	)13 ndex 20	On/Off Ventilation Up/Down 9 -15 7 -18 7 -18 5 -21 3 -25 1 -32	Up/Down SuperFrost Alarm On/Off	••• ·	
Step	Display	Operation	Display following operation	Testing option / In	
Service	e menu start				
1	Set values	Press " <b>Up/Down</b> " and " <b>ON/OFF</b> " together for 5 seconds	9°C LED static <sup>1)</sup> , SuperFrost LED flashes	Service menu activatior	
Demo	mode ON				
2	9°C LED static <sup>1)</sup> , SuperFrost LED flashes	Press Up/Down button	<b>3°C LED</b> static, SuperFrost LED flashes	Demo mode selected	
3	<b>3°C LED static</b> , SuperFrost LED flashes	Press SuperFrost button	Set values	Demo mode ON	
Demo	mode OFF				
2	<b>3°C LED flashes fast</b> , SuperFrost LED flashes	Press SuperFrost button	Appliance in normal mode	Demo mode OFF	
INFO	If the equiter is meede from	I logic OFF to logic ON when the demo mo	do is potivoted all the refrigerator		

Functions

	ndex 20		Down SuperFrost Alarm On/Off	
Step	Display	Operation	Display following operation	Testing option / I
Service	e menu start Set values	Press " <b>Up/Down</b> " and " <b>ON/OFF</b> " together for 5 seconds	9°C LED static <sup>1)</sup> , SuperFrost LED flashes	Service menu activatior
Panel te	est test display LED, doo 9°C LED static <sup>1)</sup> , SuperFrost LED flashes	r contact, buttons Press Up/Down button twice	<b>7°C LED</b> static, SuperFrost LED flashes	Control panel test sele
3	7°C LED static, SuperFrost LED flashes	Press SuperFrost button	All temperature LEDs ON, all button LEDs ON	Control panel test acti
4	All temperature LEDs ON, all button LEDs ON	Press all buttons, door open and closed (each button is confirmed by a beep)	- Beep for 1sec. - appliance switches OFF	After the last button has pressed a beep sounds second, only if the test l been successful.
Should	a button/reed contact be de	for example; it has to be performed in full. fective, no beep sounds for confirmation an led and plugged back in again.	nd the <b>appliance does not switc</b>	h OFF.

Replacement

of parts

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Home

Functions

Design

Control

## LIEBHERR

CN(es) ..03 CN(es) ..13 from Index 20

Service mode



Step	Display	Operation	Display following operation	Testing option / Info	
Service	e menu start				
1	Set values Press " <b>Up/Down</b> " and " <b>ON/OFF</b> " together for 5 seconds		9°C LED static <sup>1)</sup> , SuperFrost LED flashes	Service menu activation	
Service	mode testing electric loads				
2	9°C LED static <sup>1)</sup> , SuperFrost LED flashes	Press Up/Down button 3 times	<b>5°C LED</b> static, SuperFrost LED flashes	Service mode selected	
3	5°C LED static, SuperFrost LED flashes	Press SuperFrost button	All temperature LEDs OFF, SuperFrost LED flashes fast	Customer service mode activated / All OFF	
$9 \rightarrow 4$	All temperature LEDs OFF, SuperFrost LED flashes fast	Press Up/Down button	<b>9°C LED</b> and SuperFrost LED flash fast	<ul> <li>Compressor ON</li> <li>Solenoid valve position B</li> </ul>	
5	9°C LED and SuperFrost LED flash fast	Press Up/Down button	<b>7°C LED</b> and SuperFrost LED flash fast	Compressor ON     Solenoid valve     position A	
6	7°C LED and SuperFrost LED flash fast	Press Up/Down button	9°C LED, 7°C LED and SuperFrost LED flash fast	Freezer compartment fan ON	

<sup>1)</sup> When the demo mode is activated, the 3°C LED is displayed with fast flash instead of 9°C LED static.

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Step	Display			Testing option / Info		
7	9°C LED, 7°C LED and SuperFrost LED flash fast	Press Up/Down button	<b>5°C LED</b> and SuperFrost LED flash fast	Freezer compartment defrost heater ON		
8	5°C LED and SuperFrost LED flash fast	Press Up/Down button	9°C LED, 5°C LED and SuperFrost LED flash fast	Light ON		
4 <b>← 9</b>	9°C LED, 5°C LED and SuperFrost LED flash fast	Press Up/Down button	9°C LED, 7°C LED, 5°C LED and SuperFrost LED flash fast	Refrigerator compartment fan ON		
End	Press "ON/OFF" twice:	Return to normal/control mode.				

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Service mode

of parts

from Index 20	On/Off Ventilation Up/Down 7 5 3 1	-15 -18 -21 -25 -32 Up/Down SuperFrost Alarm On/Off ★ ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●			
Error code	Defective component	Emergency mode			
9°C + 7°C LED flash in synchronism with SF LED	Refrigerator compartment air sensor	Compressor 10min. ON, 40min. OFF			
9°C + 5°C LED flash in sychronism with SF LED	Refrigerator compartment evaporator sensor	Compressor 10min. ON, 40min. OFF			
9°C + 7°C + 5°C LED flash in synchronism with SF LED	Freezer compartment air sensor	Compressor continuous operation			
9°C + 3°C LED flash in synchronism with SF LED	Freezer compartment evaporator sensor	Compressor continuous operation			

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of parts