R(I) 1410 (EK(es) 4270)



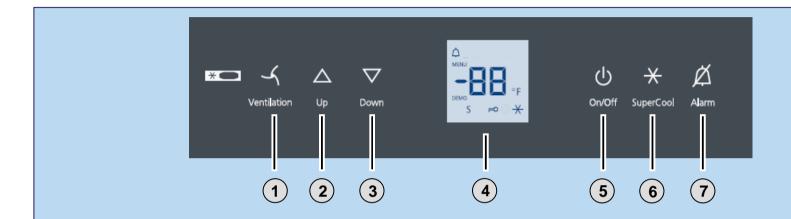


Freestanding refrigerator

Functions

Convridbt Liabbarr 2008

Operating and control elements



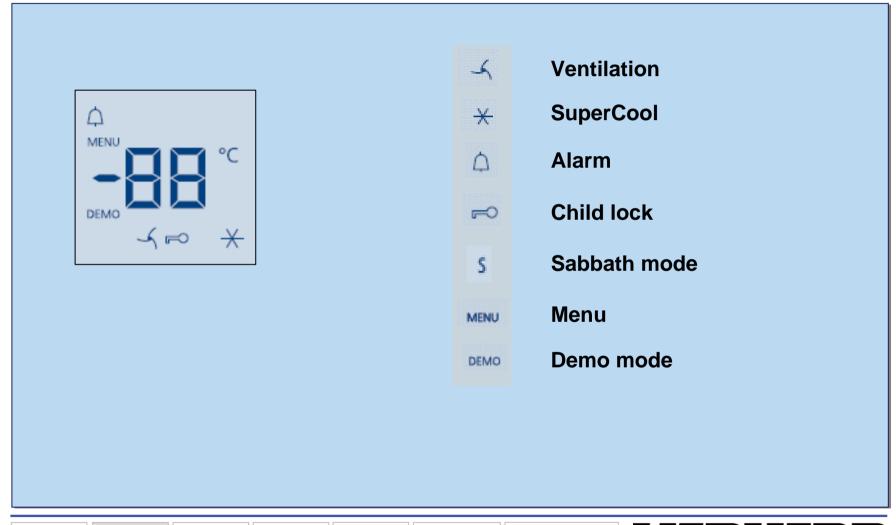
Operating elements

- 1: Ventilation function, button lit = function switched ON
- Setting button temperature higher
- 3 : Setting button temperature lower
- 4: Temperature display / function display

- 5: ON/OFF button
- 6: SuperCool function, button lit = function switched ON
- 7: Alarm OFF button



Operating and control elements



Functions at a glance

Temperature control: Electronic

Settable temperature range: 35°F to 48°F (2°C to 9°C)

Temperature display: Actual value, digital

Temperature alarm: No

Door alarm: Audible

Fan: Yes

Defrosting: Automatic

Interior light: Yes

SuperCool: Automatic, 35°F (2°C) for 12 hrs.

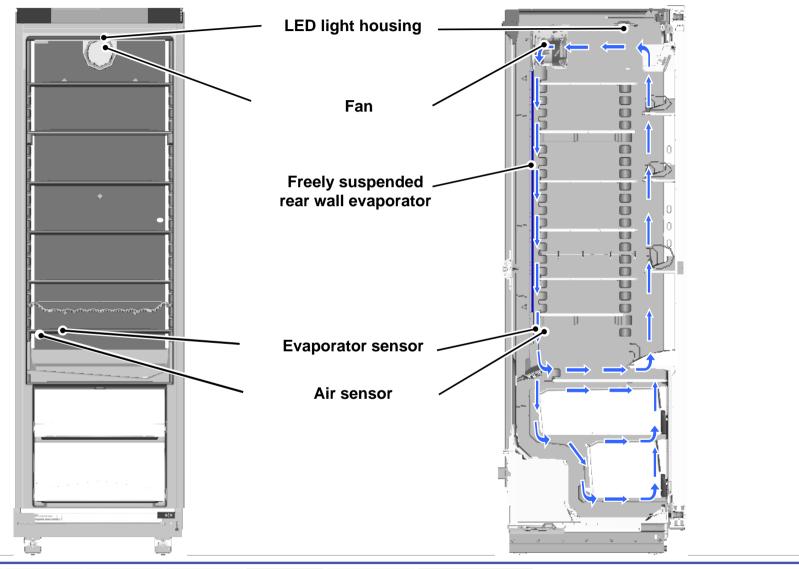




Design

Convright Liabbarr 2008

Schematic representation of the appliance



Control

Convright Lighberr 2008

Air sensor



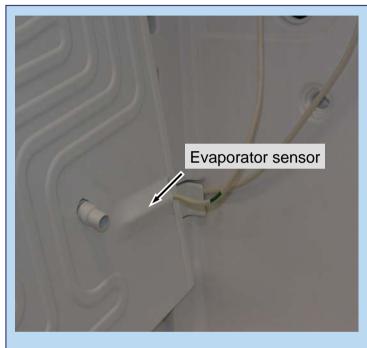
Position:

On the left-hand side, at the level of the lowest support rib

Depending on this sensor

- the compressor switches OFF
- the refrigerator compartment temperature display value is generated

Evaporator sensor



Position:

In the sensor pocket on the rear of the evaporator, at the level of the air sensor.

Depending on this sensor

- the compressor switches ON
- the defrosting phase is ended

Fan



Position:

Beneath the ceiling of the appliance.

Fan ON when

during start-up, from +59°F (+15°C) at the evaporator sensor and

ventilation function ON

compressor ON

refrigerator compartment door is closed

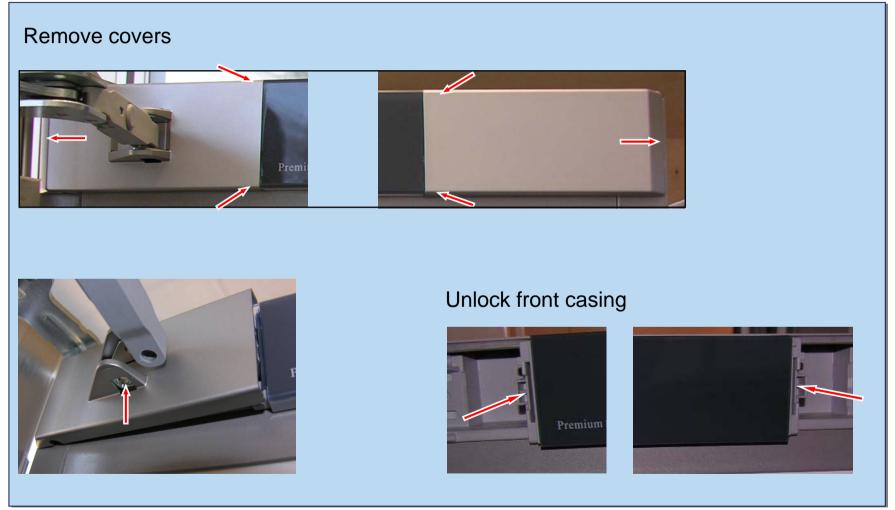




Replacement of parts

Convridht Liabharr 2008

Removal of control panel



Copyright Liebherr 2008

Hidden functions

Removal of control panel

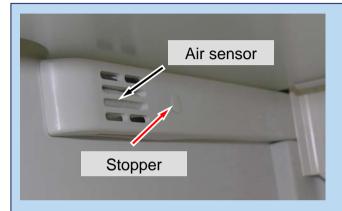
Disconnect and detach bus connector.



Note: Front panel is only replaceable as a complete unit, PCB is not

separately available!

Air sensor



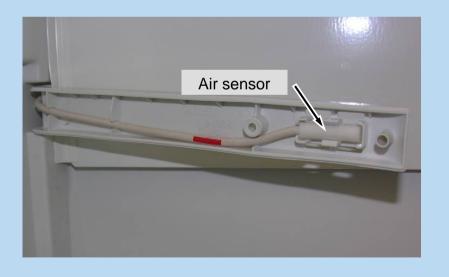
Procedure

- Remove stopper
- Undo screw
- Disengage air sensor

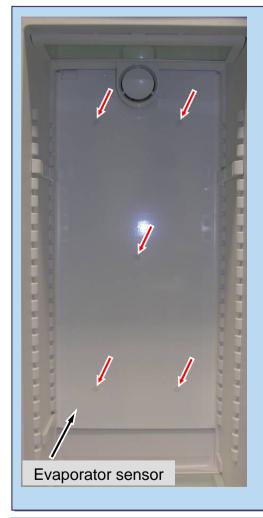
Information on repair kit!

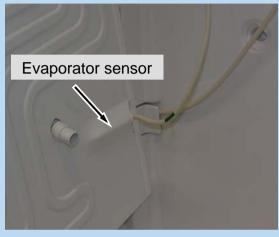
Sensor is cut off and repaired using the repair kit (with repair instructions).





Evaporator sensor





Information on repair kit!

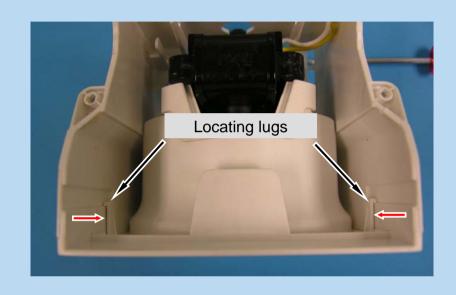
Sensor is cut off and repaired using the repair kit (with repair instructions).

Procedure

- Detach fan.
- Undo screws holding the evaporator
- Pull the evaporator down and fold it to the left
- Pull evaporator sensor out of sensor pocket

Fan





Procedure

- Remove marked screws
- Disconnect fan
- Disengage locating lugs of fan cover and draw cover forwards for removal

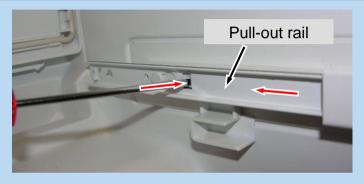


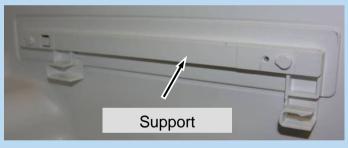
Pull-out rails

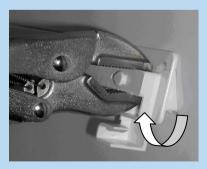


Disassembling the pull-out rail

- Undo the screw at the front, is only screw-fitted at the front
- Depress the lock and press the pull-out rail to the rear
- Support is exchangeable









LED interior light

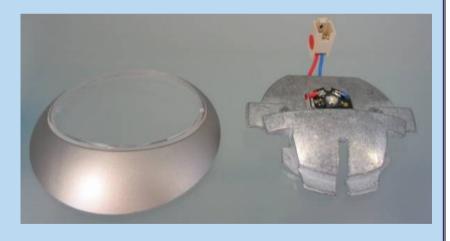




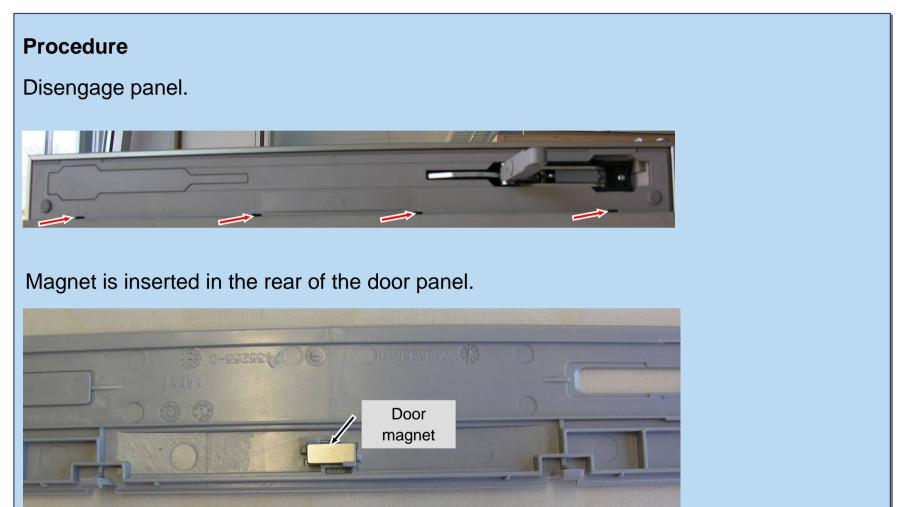


Procedure

- Press housing forwards
- Undo Torx screws
- Disconnect LED lighting unit



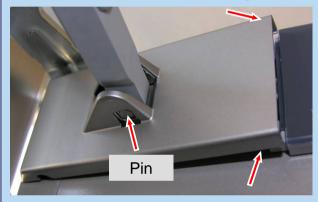
Door contact, magnet



Top soft stop mechanism

Procedure

Raise the panel on the right so far that the pin can be pressed up and out.





Disengage the top faceplate of the door.



Top soft stop mechanism

Procedure

Undo the screws of the soft stop unit.



RI appliances only: Soft stop unit is screwed into place together with holder.

In the case of R appliances, the soft stop unit is screwed direct, without holder.





Bottom soft stop mechanism

Procedure

- Lever the righthand side of the cover off the turn hinge in a forward direction.
- Remove hinge pin.





Disengage the top faceplate of the door.



Bottom soft stop mechanism

Procedure

Undo the screws of the soft stop unit.



RI appliances only: Soft stop unit is screwed into place together with holder In the case of R appliances, the soft stop unit is screwed direct, without holder.





Top/bottom soft stop mechanism

Procedure

Safety device for soft stop unit.





ATTENTION

Fit safety device for soft stop unit!

Risk of crushing in the marked area.

Soft stop unit with fitted safety device.

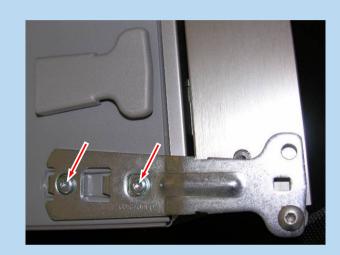


RI: Top door hinge

Procedure

Push off the cover of the turn hinge forwards.





For changing over the door hinges, transfer the





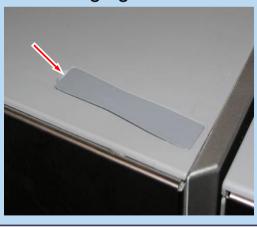
R: Top door hinge

Detach the cover in a forward direction and undo the marked screws.





For changing over the door hinges, transfer the cover.

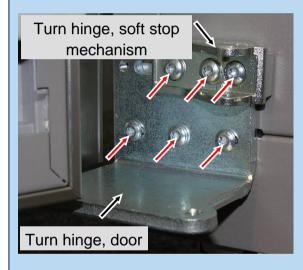




Bottom door hinge

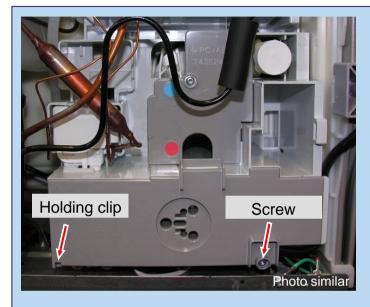
Procedure

Remove marked screws.



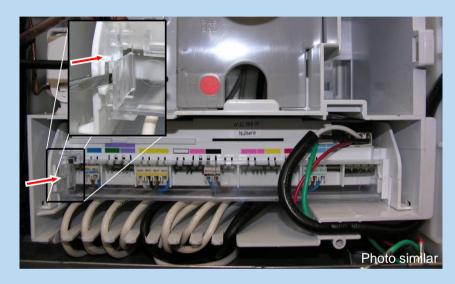
Convridht Liabharr 2008

Electronic power module



Remove cover

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



Cable clip

Disengage the cable clip at the marked location.

Electronic power module

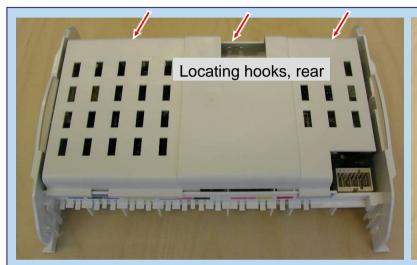


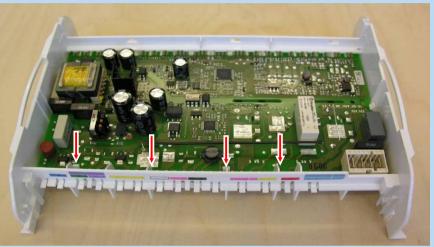
To pull out slide-in unit

- Detach front PCB edge connector
- Release strain relief (screw) of the supply cable
- Disengage the plug-in unit at the marked locations and pull it forwards for removal
- Pull off rear PCB connector



Electronic power module





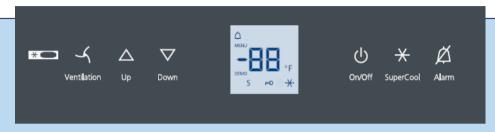
PCB

- Disengage upper part of plug-in module at the marked locating hooks and remove it
- Disengage PCB at the marked locations

Hidden functions

Convridht Liabharr 2008

Start and selection, functions



The service menu comprises functions and testing options for the service technicians as well as activation/deactivation of a demo mode.

Press "ON/OFF" + "Up" simultaneously for about 5 seconds Start of service menu:

(Can be called only with freezer compartment buttons)

MENU flashes Display:

Functions: demo mode : Appliance is switched ON, without d

refrigeration

: Test of display and control elements P Panel test

F-Sensor test : Request current sensor values

Customer service mode: Test electric loads

overview

| Service menu Display level 1 | | Operation | Display level 2 | Operation | Display level 3 | | |
|------------------------------|----------|---------------------|------------------------|---------------------------|---------------------------|--|--|
| Demo mode | | 70 | Press SuperCool button | 97 | Press SuperCool button | -1 | |
| Panel test | 1 | Up or Down button → | 0.2 | Press SuperCool button | 8 | Press SuperCool button | Press buttons, door closed/open |
| Sensor test | or Down | | T EB | Press SuperCool button | E-8 | Press SuperCool button | Refrigerator compartment air sensor Refrigerator compartment evaporator sensor Refrigerator compartment door contact |
| Service mode | \ | | Press SuperCool button | 88 | Press SuperCool button | : All OFF : Compressor ON, low speed : Compressor ON, high speed : Light ON : Fan ON | |

Demo mode

| Step | Display | Operation | Display following operation | Testing option / Info | |
|---------|----------------------------------|--|-----------------------------|--|--|
| Start s | ervice menu Demo m | ode ON | | | |
| 1 | Actual value | Press "Up" and "ON/OFF" simultaneously for 5 seconds | d flashes | Service menu active, Demo mode selected | |
| 3 | d flashes | Press SuperCool button | d static | Demo mode ON selected | |
| 4 | d static | Press SuperCool button | Set value and "Demo" | Demo mode ON | |
| Start s | Start service menu Demo mode OFF | | | | |
| 1 | Actual value and "Demo" | Press "Up" and "ON/OFF" simultaneously for 5 seconds | d flashes, "Demo" | Service menu active | |
| 2 | d flashes, "Demo" | Press SuperCool button | static, "Demo" | Demo mode OFF selected | |
| 3 | static , "Demo" | Press SuperCool button | Actual value | Demo mode OFF | |

The text "Demo" in the display informs of the activated demo mode.

Demo mode can be deactivated only via service menu, not by OFF/ON or disconnection from the supply.

Operation is switched to the mode wanted, demo mode or normal mode, as soon as "SuperCool" has been pressed.

Panel test

| Step | Display | Operation | Display following operation | Testing option / Info | | |
|----------|---|--|--|--|--|--|
| Service | menu start | | | | | |
| 1 | Actual value | Press "Up" and "ON/OFF" simultaneously for 5 seconds | d flashes | Service menu active | | |
| Panel te | Panel testtest of sensor buttons, display elements, door sensor and beep | | | | | |
| 2 | d flashes | Press Up button once | P flashes | Panel test selected | | |
| 3 | P flashes | Press SuperCool button | P static | Panel test activated | | |
| 4 | P static | Press SuperCool button | All symbols/segments | Display elements/ more symbols are displayed than the respective electronic unit uses. | | |
| 5 | All symbols/segments | Door open/closed and press all buttons one after the other (each button is confirmed by beep) | - 2-second beep - Appliance switches OFF | After the last button has been actuated, there is a two-second beep, provided the test was successful. | | |
| End | Panel test cannot be ended in step 2, for example; it has to be performed in full. Should a button/reed contact be defective, no beep sounds for confirmation and the appliance does not switch OFF. The appliance then has to be unplugged and plugged back in again. | | | | | |

Service menu, sensor test refrigerator compartment

| Step | Display | Operation | Display following operation | Testing option / Info |
|-----------|---|--|---|---|
| Service m | nenu start | | | |
| 1 | Actual value | Press "Up" and "ON/OFF" simultaneously for 5 seconds | d flashes | Service menu active |
| Sensor te | est mode and door contact | test (sensor values v | vithout offset, appliance in | control mode) |
| 2 | d flashes | Press Up button twice | E - flashes | Sensor test mode selected |
| 3 | E - flashes | Press SuperCool button | E! static | Sensor test mode activated |
| 6 → 4 | E static | Press SuperCool button | flashes alternately with sensor temperature | Air sensor |
| 5 | flashes alternately with sensor temperature | Press Up button | lashes alternately with sensor temperature | Evaporator sensor |
| 4 ← 6 | flashes alternately with sensor temperature | Press Up button | flashes alternately with P or CL | refrigerator compartment door contact (|
| End | | return to level 1.:E - It | lo further items selectable witems: H, d, P, E-, Lo normal/control mode | |

Service menu, service mode la refrigerator compartment

| | | | Display following | |
|--------------|--|--|-------------------|---------------------------|
| Step | Display | Operation | operation | Testing option / Info |
| Service n | nenu start | | • | |
| 1 | Actual value | Press "Up" and "ON/OFF" simultaneously for 5 seconds | d flashes | Service menu active |
| Service n | node testing electric | loads | | |
| 2 | d flashes | Press "Up" button three times | flashes | Service mode selected |
| 3 | [flashes | Press SuperCool button | static | Service mode activated |
| 8 → 4 | ! static | Press SuperCool button | static | All OFF |
| 5 | static | Press Up button | - ∃ ∃ static | Compressor ON, low speed |
| 6 | static | Press Up button | = 2 static | Compressor ON, high speed |
| 7 | □ 2 static | Press Up button | 5 static | Light ON |
| 4 ← 8 | 5 static | Press Up button | static | Fan ON |
| End | Press "ON/OFF" once: return to level 2.: \(\subseteq \) No further items selectable with this appliance Press "ON/OFF" twice: Return to normal/control mode | | | |

Error code

| Error code | Defective component | Emergency mode |
|------------|--|------------------------------------|
| F1 | Refrigerator compartment air sensor | Compressor 10 min. ON, 40 min. OFF |
| F2 | Refrigerator compartment evaporator sensor | Compressor 10 min. ON, 40 min. OFF |

Copyright Liebherr 2008

LIEBHERR