

Selfly Model 3 series Fridge & Freezer

Service Guide

V1.2 13.9.2023

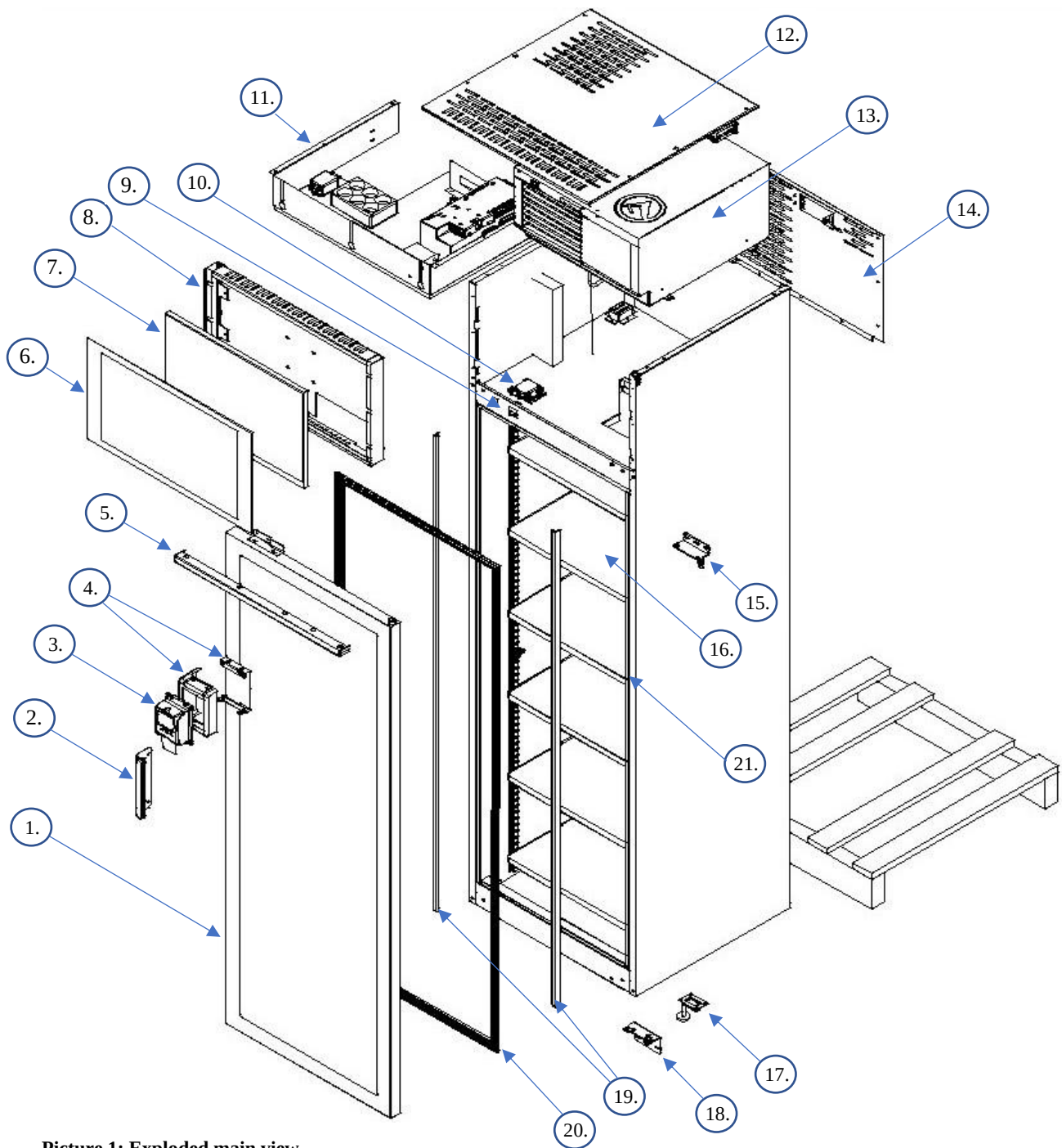
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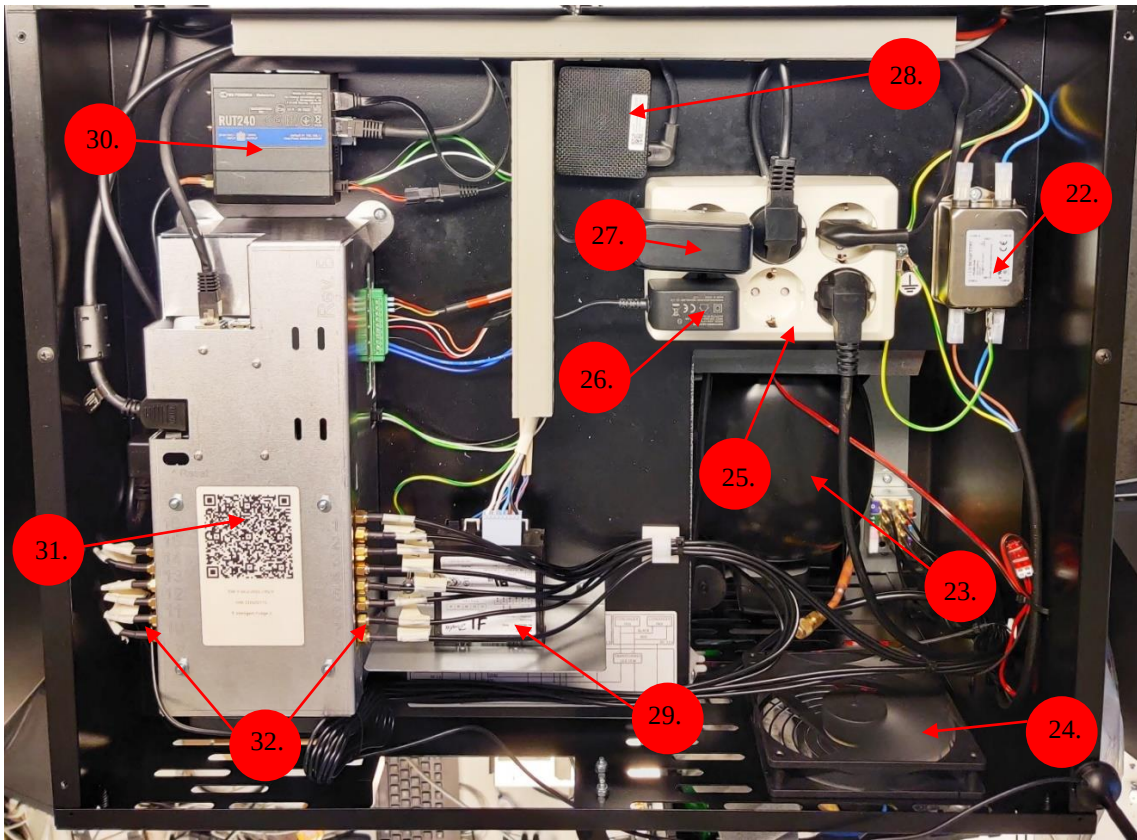
Service Catalogue

This section provides service information as set out in Ecodesign directive.

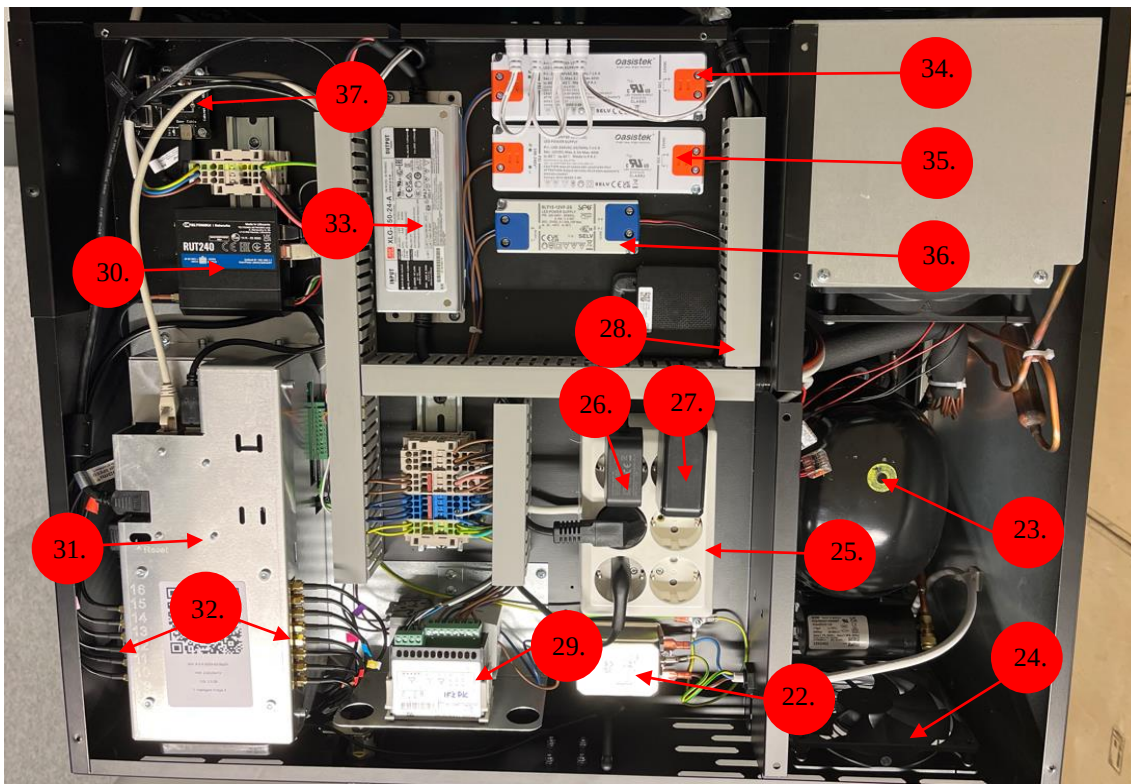
Exploded view



Picture 1: Exploded main view



Picture 2: Selfly Model 3 Fridge cabinet top view



Picture 3: Selfly Model 3 Freezer cabinet top view

Spare part list

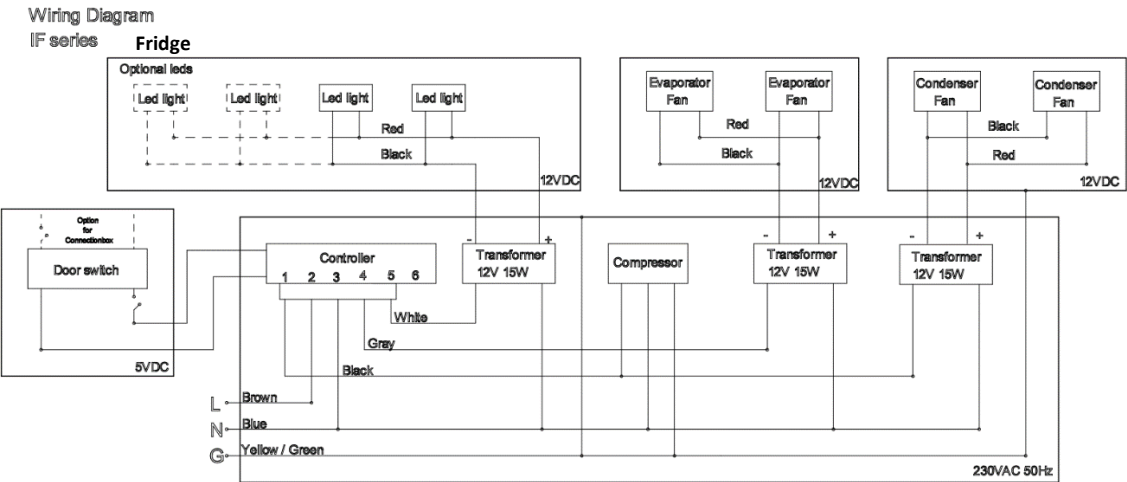
Part number	Availability (years)	Part	Pieces/unit
1	8	Door	1
2	8	Door handle	1
3		Payment terminal (accessory option)	1
4		Payment terminal holder assembly (accessory option)	1
5		Door top cover	1
6		Display plexiglass	1
7		Display	1
8		Display frame	1
9		Door sensor	1
10	8	e-Lock	1
11		Component tray	1
12		Top panel	1
13	8	Refrigeration cassette	1
14		Rear panel	1
15		Door top hinge	1
16	8	Shelf assembly	6
17		Foot/wheel	4
18		Door bottom hinge	1
19		LED light	2
20	8	Door gasket	1
21		Heater frame (Only in Selfly Model 3 Freezer)	1
22		EMI filter	1
23		Compressor (in refrigeration cassette)	1
24		Rear fan	1
25		Socket	1
26		Router PSU (accessory option)	1
27		Payment terminal PSU (accessory option)	1
28		Display PSU	1
29	8	Refrigeration controller	1
30		Mobile router (accessory option)	1
31		Connection box	1
32		RFID antenna cables	14

33		Door heater power supply	1
34		LED lights power supply	1
35		Condenser fan power supply	1
36		Evaporator fan power supply	1
37		Universal door cable board	1

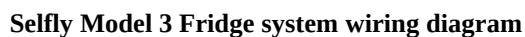
Repair and test equipment list

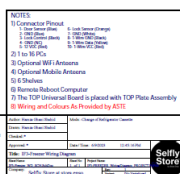
Tool or equipment	Explanation
screwdriver / T handle with Philips and Torx tips	Most service operations
8 mm torque wrench 0,5 Nm	RF connectors of antenna and connection box
13 mm open end or box end wrench	Upper hinge pin
3 mm hex key	Payment terminal
4 mm hex key	Door hinge brackets
Pop rivet tool	Door lock adjustment
Drill and drill bits up to 10mm	Door lock adjustment

Refrigeration system wiring diagram



Selfly Model 3 Fridge refrigeration wiring diagram





On-Site Component Replacement

This section provides instructions for component replacement, which can be done on-site. All maintenance and service work must be done by authorized and trained personnel.

Warning! Unplug cabinet main power cord before part replacement to prevent hazard from 230VAC wiring!

Top and Rear Panel Removal

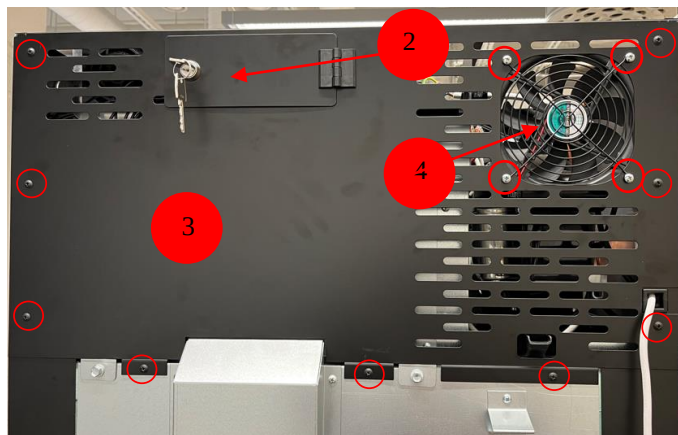
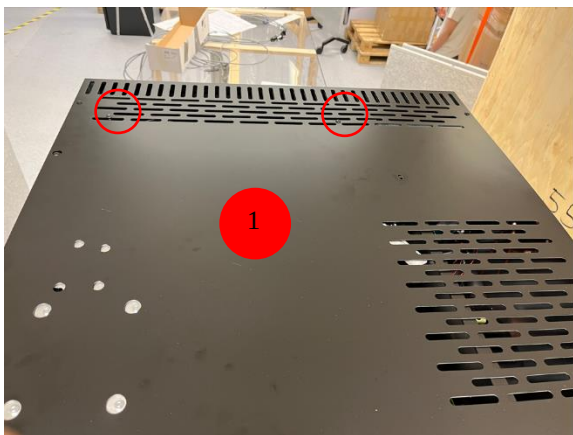
Top and rear panels need to be removed for most of maintenance and repair work.

Tools needed:

- screwdriver / T handle with PH2 tip



Selfly Model 3 fridge top and back panel



Selfly Model 3 Freezer top and back panel

Cabinet top (1) and rear (3) panels

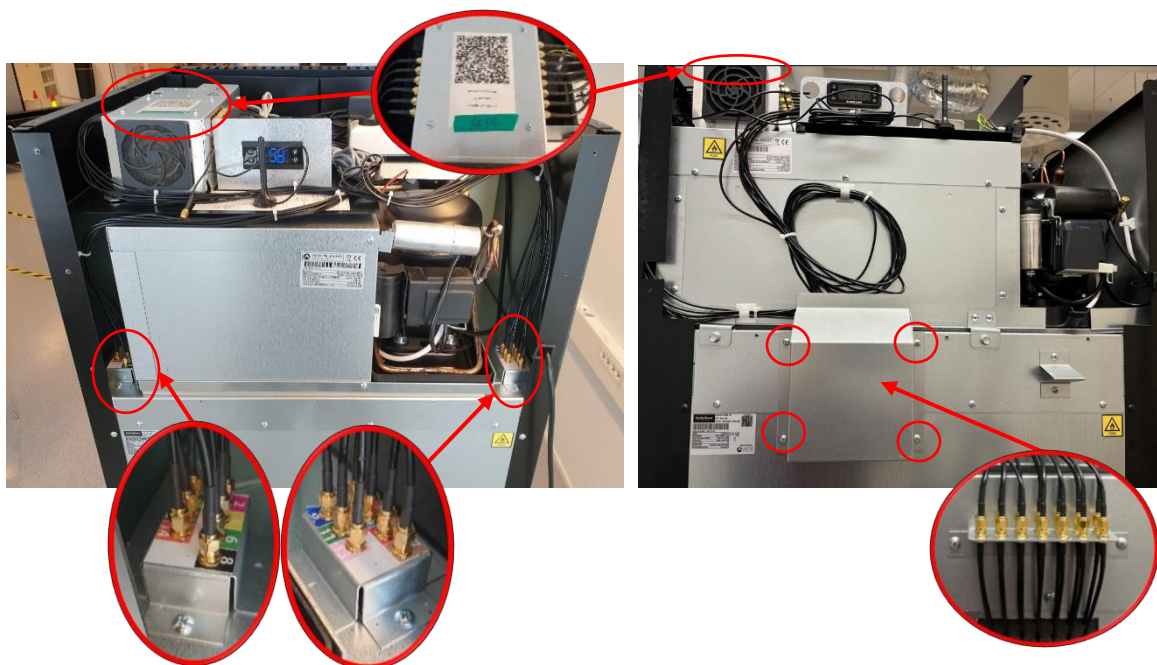
1. Remove cabinet top panel (1) mounting screws 4 pcs (Fridge) or 6 pcs (Freezer).
2. Open access door (2) and put magnetic antenna inside cabinet to protect it from possible damage.
3. Remove cabinet rear panel (3) mounting screws 9 pcs and rear fan (4) mounting screws 4 pcs.

Antenna cable replacement (Upper)

Antenna cables can be replaced on-site if necessary. Remove cabinet top and rear panels to access upper antenna cables. Cabinet needs to be rebooted after cable change.

Tools needed:

- 8 mm torque wrench 0,5 Nm
- screwdriver / T handle with PH2 tip



End locations of upper antenna cables in Fridge (Left) and Freezer (Right)

1. Remove cabinet top and rear panels.
2. **Freezer:** Open panel connector housing from cabinet back.
3. Unscrew cable ends from panel connector. Cables are tightly spaced. Neighboring terminals might need to be removed to access the terminal of faulty cable.
4. Unscrew cables from connection box.
5. Install new cable.
6. Use torque wrench to tighten cable connectors to 0,5 Nm (5 in-lbs) torque.
7. **Freezer:** Re-install panel connector housing.
8. Re-install cabinet top and rear panels.
9. Power on cabinet and execute SAT test (Service acceptance test). All antennas (#1-14) need to show connected status.

Shelf replacement

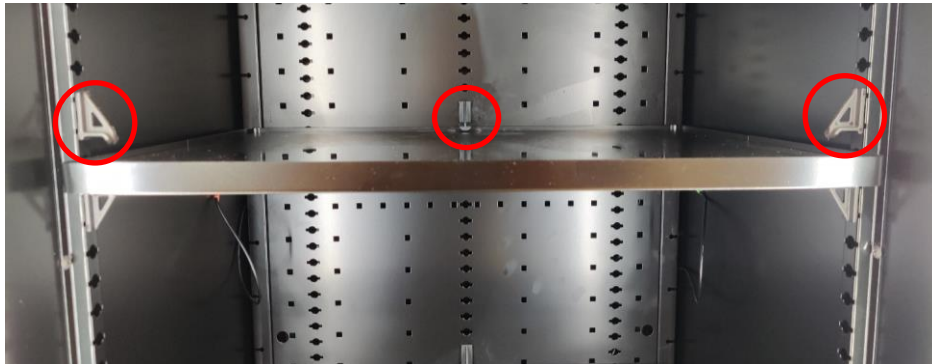
Antenna boards in shelves cannot be replaced for shelf version 1 with white plastic holder clips. Whole shelf is replaced if antenna needs to be replaced. Shelf can be lifted out of cabinet when antenna cables have been removed. If antenna boards have removable screw (shelf version 2) it's possible to replace the board only.

Tools needed:

- 8 mm torque wrench



1. Unscrew cable ends from bottom of the shelf.



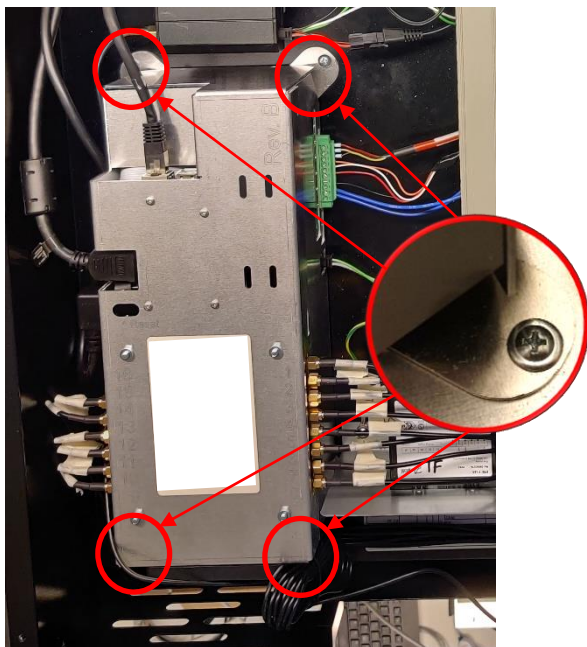
2. remove the 3 holders on top of the shelf by rotating 90° and pulling them out.
3. remove shelf by lifting its front edge first and pulling it out at an angle.
4. Install new shelf and connect cables and install the holders back.
5. Use torque wrench to tighten cable connectors to 0,5 Nm (5 in-lbs) torque.
6. Power on cabinet and execute SAT test (Service acceptance test). All antennas (#1-14) need to show connected status.

Connection box replacement

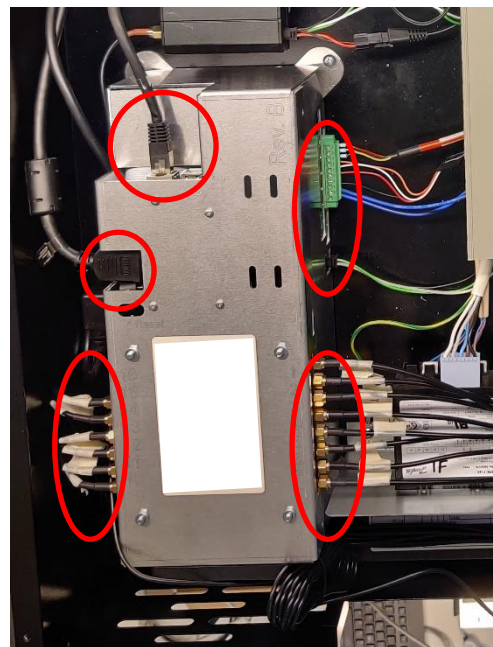
Connection box can be changed on-site. Cabinet top panel needs to be removed to replace connection box.

Tools needed:

- 8 mm torque wrench
- Screwdriver / T handle with PH2 tip



Connection box mounting screws



Connection box connector locations

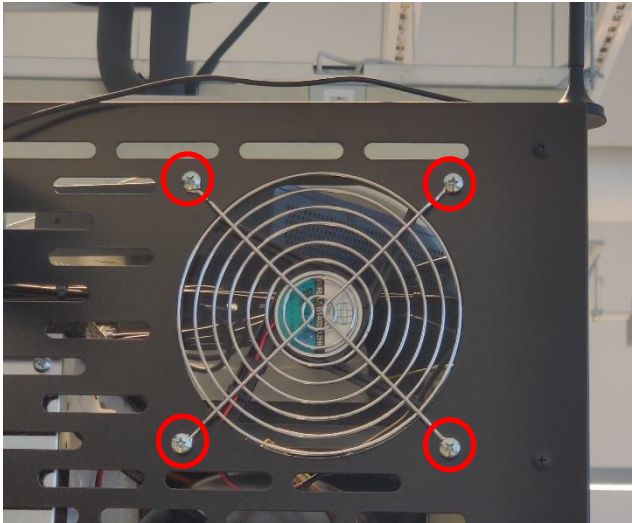
1. Remove cabinet top panel mounting screws. (4 pcs)
2. Remove all connection box connectors (If the RF antenna cables do not have labels already their port number should be marked).
3. Remove connection box mounting screws.
4. Replace connection box and mount it with old connection box screws.
5. Use torque wrench to tighten RF-cable connectors to 0,5 Nm (5 in-lbs) torque.
6. Plug in HDMI, ethernet, USB and e-lock connectors.
7. Re-install cabinet top panel.
8. Power on cabinet and execute SAT test (Service acceptance test). All tests must pass.

Rear fan replacement

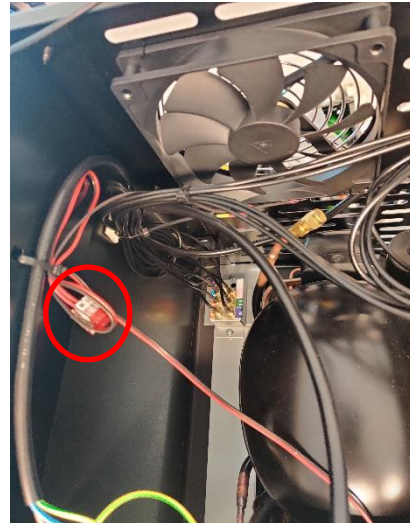
Cabinet rear fan can be replaced on-site. Cabinet top panel needs to be removed to access rear fan.

Tools needed:

- Screwdriver / T handle with PH2 tip



Rear fan exterior view (cover grill and mounting screws)



Interior view and power cable connectors

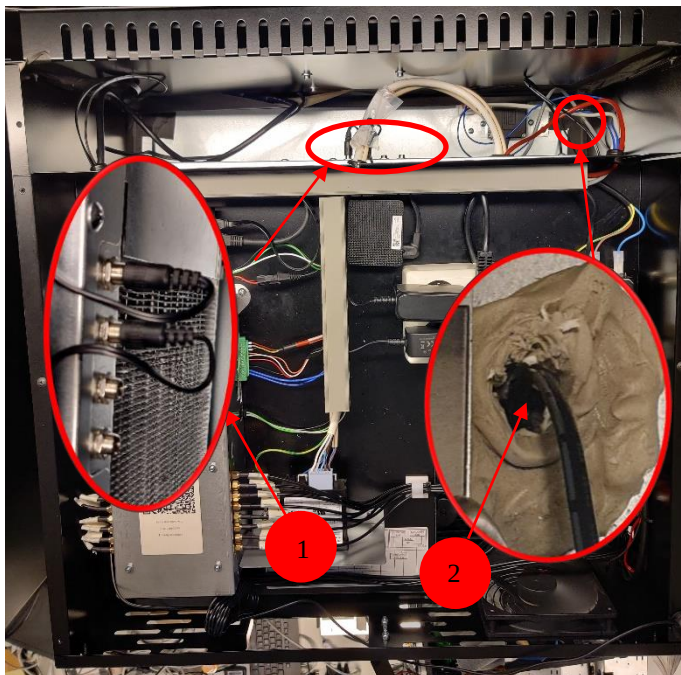
1. Remove cabinet top panel mounting screws. (4 pcs)
2. Remove power cable's connectors.
3. Remove rear fan mounting screws. (4 pcs)
4. Replace the fan.
5. Install the fan mounting screws along with the cover grill.
6. Reconnect power cables.
7. Re-install cabinet top panel.
8. Power on cabinet and confirm that rear fan starts to spin. Fan is synced with compressor and starting may take up to 30mins. Keeping the cabinet door open for some minutes reduces the waiting time.
9. Execute SAT test (Service acceptance test). All tests must pass.

LED lighting replacement

Cabinet LED lighting can be replaced on-site.

Tools needed:

- Flat head screwdriver / chisel
- EMI tape



LED light power connector and cable routing



LED light mounting

1. Unplug LED light power connector (1).
2. **Freezer:** since there is not enough space to access the sealant mass (2), the front display frame should be removed first (refer to display replacement section).
3. Use flat head screwdriver or similar tool to free antenna cable off sealant mass (2).
4. Pry LED light off from its holder as shown above using flat head screwdriver or similar tool.
5. Remove LED light.
6. Cover DC plug of new LED light with masking tape to protect it against sealant mass.
7. Route DC plug and cable through cabinet ceiling and plug it in.
8. Press new LED light into holder.
9. Pull excess cable through cabinet ceiling.
1. Re-seal cable hole with sealant mass and install EMI tape on top of hole.
2. **Freezer:** Re-Install the display frame to cabinet.
10. Power on cabinet and confirm visually that LED light is active.
11. Execute SAT test (Service acceptance test). All tests must pass.

LED lighting power supply replacement

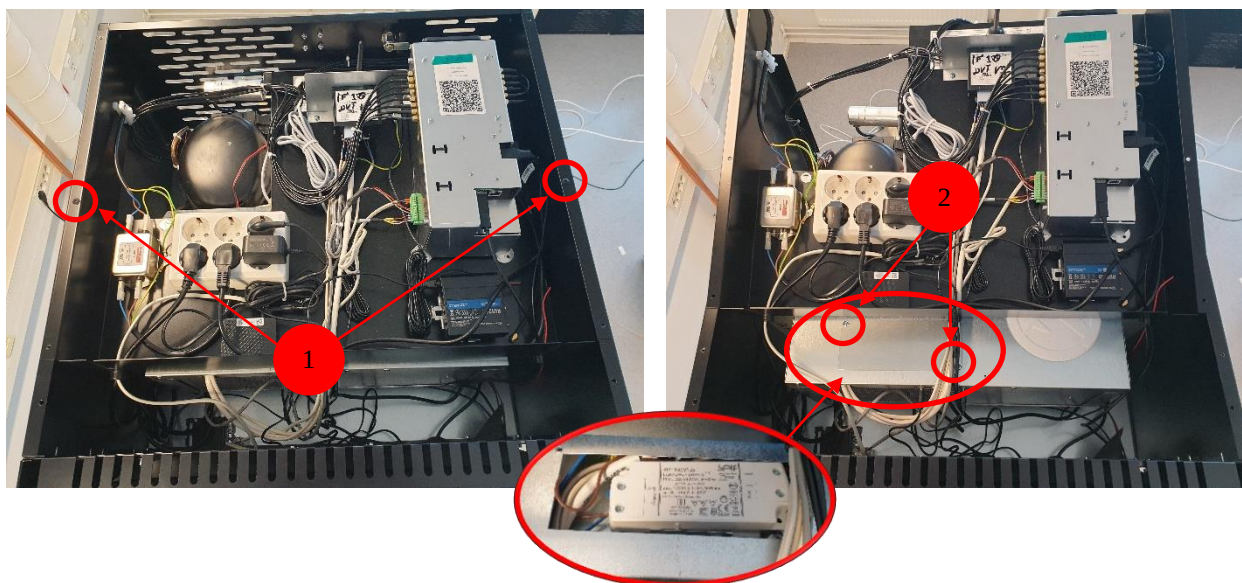
Warning! Unplug cabinet main power cord before part replacement to prevent hazard from 230VAC wiring!

Cabinet LED lighting power supply can be replaced on-site. Cabinet top and rear panels needs to be removed to access power supply.

Tools needed:

- Screwdriver / T handle with PH2 tip

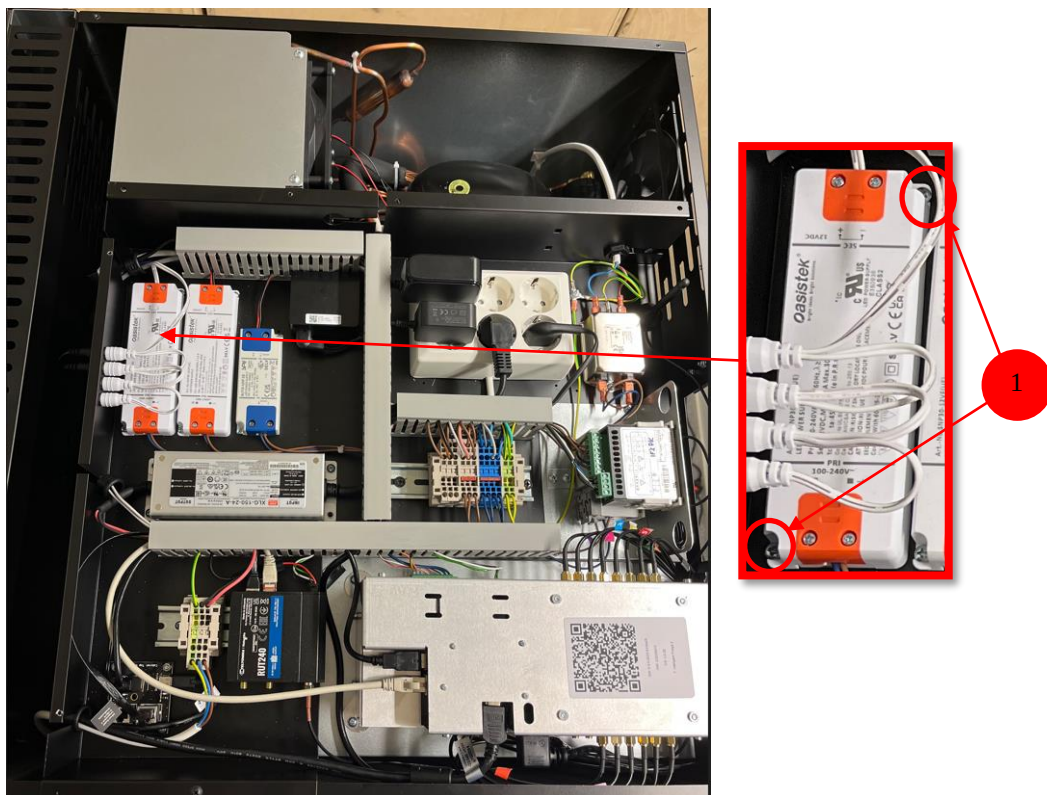
For Selfly Model 3 Fridge:



Fridge: Accessory tray mounting screws (1) and LED power supply cover sheet mounting screws (2).

1. Remove cabinet top and rear panels.
2. Remove accessory tray mounting screws.
3. Lift accessory tray and push it backwards as shown above.
4. Remove LED power supply cover sheet mounting screws.
5. Replace LED lighting power supply.
6. Install LED power supply cover sheet mounting screws.
7. Lift accessory tray back to its place and install mounting screws.
8. Install cabinet top and rear panels.
9. Power on cabinet and confirm visually that LED light is active.
10. Execute SAT test (Service acceptance test). All tests must pass.

For Selfly Model 3 Freezer:



LED power supply cover sheet mounting screws (1).

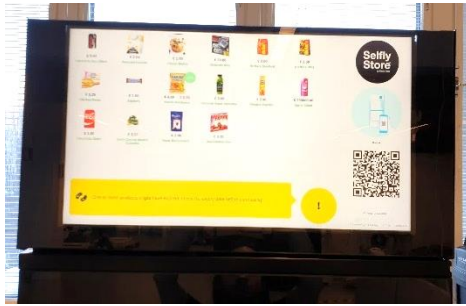
1. Remove cabinet top panel.
2. Remove LED power supply mounting screws (1).
3. Replace LED lighting power supply.
4. Install LED power supply mounting screws.
5. Install cabinet top and panel.
6. Power on cabinet and confirm visually that LED light is active.
7. Execute SAT test (Service acceptance test). All tests must pass.

Display plexiglass replacement

Display frame replacement can be done on-site. It is held in place by magnets.

Tools needed:

- screwdriver / T handle with PH2 tip



Display with plexiglass



Plexiglass removed

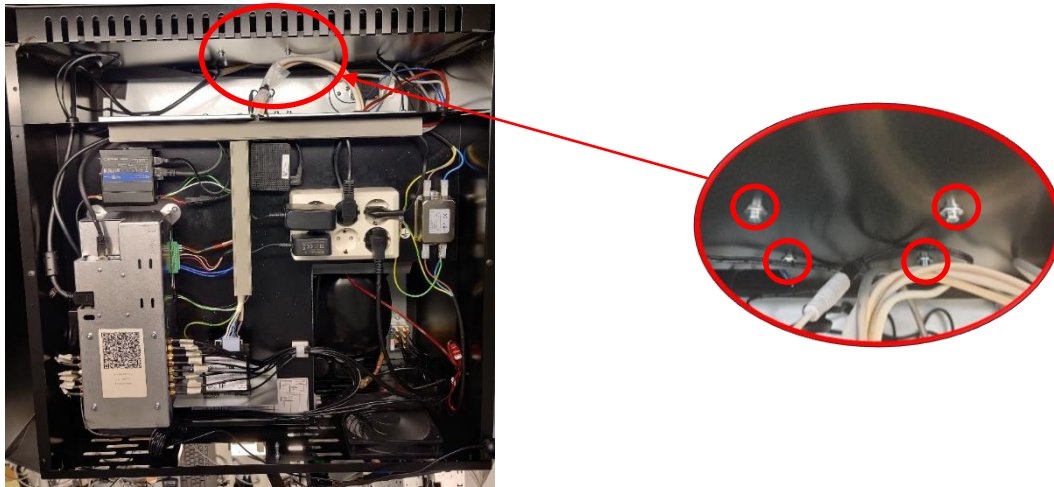
1. Remove cabinet top panel.
2. Plexiglass is held in place with magnets. Remove plexiglass by pulling it off.
3. Install new plexiglass.
4. Re-Install cabinet top panel.
5. Confirm visually that plexiglass is firmly placed.

Display replacement

Display can be replaced on-site. Display plexiglass and cabinet top panel need to be removed to access display.

Tools needed:

- 3 mm hex key
- EMI tape
- screwdriver / T handle with PH2 tip



Display mounting screw locations.



Display frame screw locations and location of universal door cable on component tray.

1. Remove cabinet top panel.
2. Remove display plexiglass
3. Disconnect all door cables from component tray and out of display frame.
4. Remove display frame by unscrewing 6 screws on the sides. Be careful when removing screws. Dropping the display may physically harm yourself or the display.

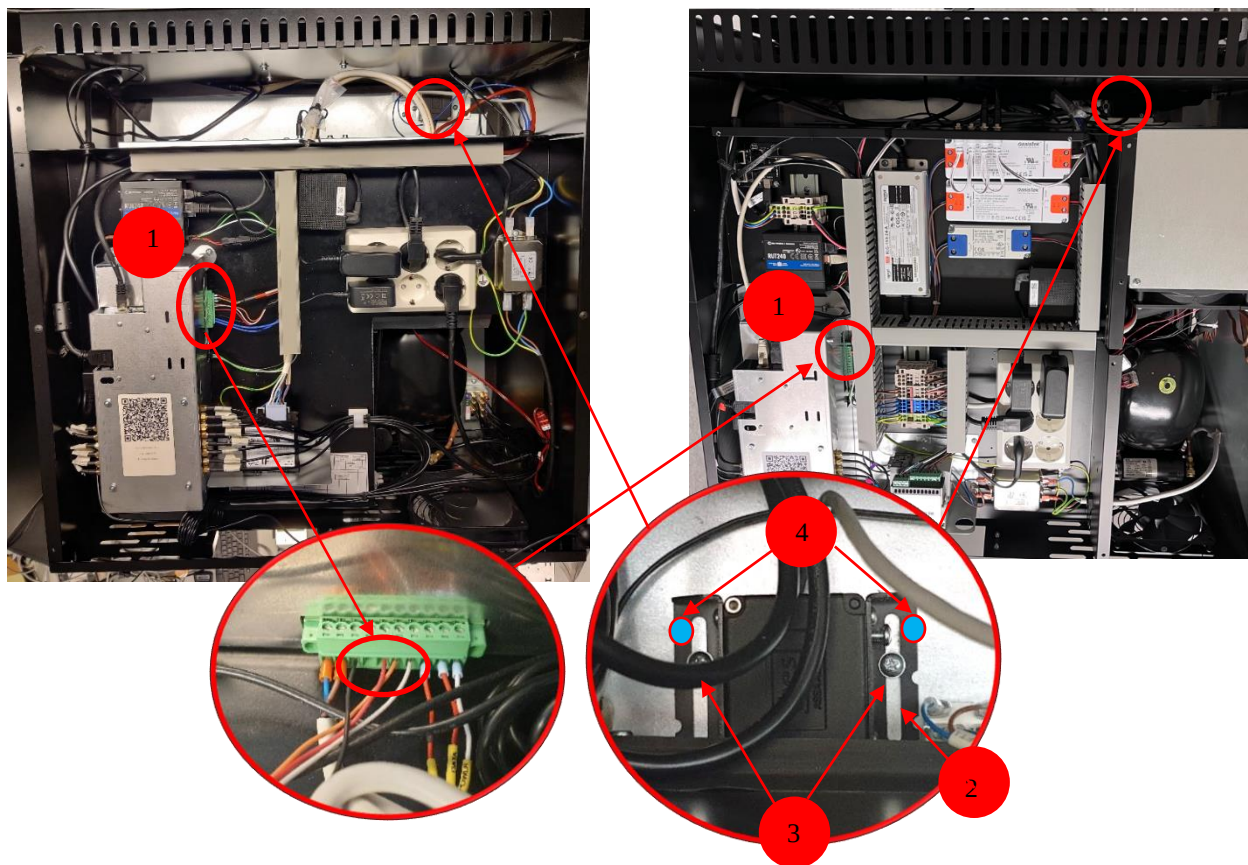
5. Remove EMI tape behind display frame which is blocking the display connectors.
6. Unplug HDMI cable and DC plug from display.
7. Remove display mounting screws.
8. Remove display and mount new display using old mounting screws.
9. Plug HDMI cable and DC plug into new display.
10. Power on cabinet and access following screen menu using the joystick behind display: Main menu -> system settings -> Off timer plus. Disable "Off timer" and "ECO timer".
11. Install EMI tape over display frame opening near display connectors.
12. Re-install display frame on the cabinet.
13. Re-install display plexiglass and cabinet top panel.
14. Power on cabinet and confirm visually that display is active.
15. Execute SAT test (Service acceptance test). All tests must pass

E-lock replacement

E-lock replacement can be done on-site. Cabinet top panel need to be removed to access e-lock.

Tools needed:

- screwdriver / T handle with PH2 tip
- Small flat head screwdriver



E-lock location (2) and e-lock wiring connections (1) Fridge (Left) and Freezer (Right).

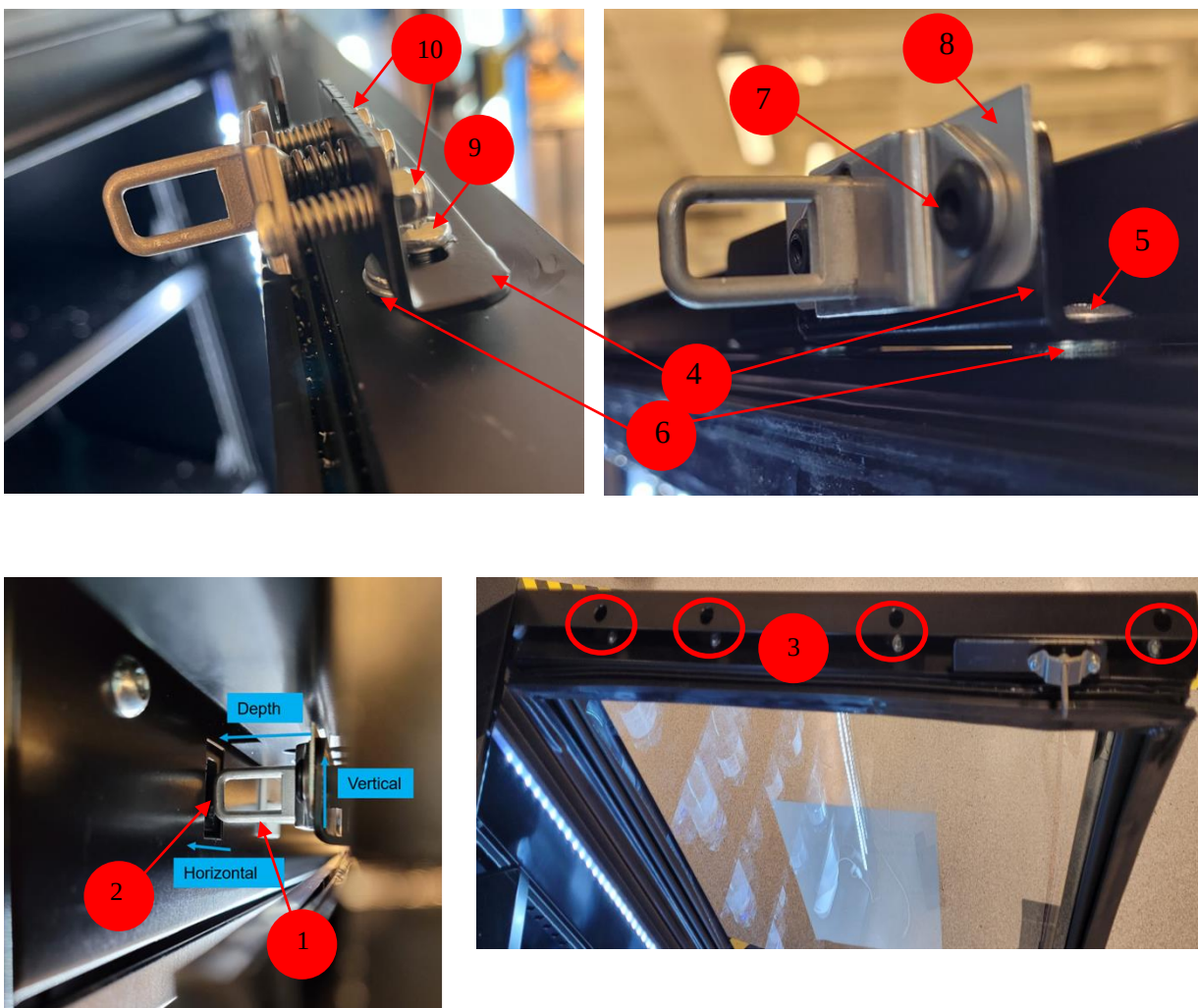
1. Remove cabinet top panel.
2. Loosen e-lock wiring screw terminals (1). Note correct installation order.
3. **Freezer:** Since in the freezer there isn't enough space to access e-lock easily, the display frame must be removed first (refer to display replacement section).
4. Force e-lock to unlock by tightening manual open bolt until seated (2).
5. Remove e-lock mounting screws (3) and locking screws (4).
6. Install new e-lock using original mounting screws. Push e-lock against cabinet front wall when tightening mounting screws. Finally install locking screws.
7. Loosen manual open bolt if seated.
8. Connect e-lock connectors to connection box screw terminals.
9. **Freezer:** Install the display housing to cabinet.
10. Re-install cabinet top panel.
11. Confirm e-lock correct operation, refer to chapter "E-lock adjustment".
12. Power on cabinet and execute SAT test (Service acceptance test). All tests must pass.

E-lock adjustment

E-lock adjustment must be inspected after lock parts replacement or in case of locking problems. Cabinet top panel need to be removed to access e-lock.

Tools needed:

- screwdriver / T handle with PH2 tip
- Drill and drill bits up to 10mm
- Pop rivet tool and 4mm pop rivets
- Shim plates and washers
- Rubber hammer or similar



E-lock adjustment and parts.

1. Before any adjustments, **level the cabinet accurately**. Open the door and release it from various distances, from few centimeters up to full open door, and observe that locking and lock sensor works at all conditions. Door must also close completely and no gap in door gasket. If these conditions are not met proceed to next step.

2. To evaluate which direction (horizontal/vertical/depth) requires adjustment follow the process: Open the door slightly to determine horizontal and vertical position of striker latch (1). Latch should hit middle of lock base (2). Latch should face forward, not hang downwards, and there should be no friction when entering to lock base. If the latch enters too deep into lock base the door won't close completely and there will be gap in door gasket. If the latch is too far from lock base, locking won't work and requires pressing the door top left corner to lock. Proceed to next step for adjustment.
3. Remove door top cover (3) attached with mounting screws 4 pcs.
4. For horizontal adjustment the latch holder L-metal (4) can be carefully hit by hammer on either side. L-part has oval shape screw holes which allows movement.
5. There are various versions and fixing methods used during production lifecycle of cabinets. It's recommended to replace shim striker with spring striker assembly when performing lock servicing.
 - a) **Vertical adjustment in case of Pop-rivets for L-metal:** For vertical adjustment, drill off holder pop-rivets (5) and remove holder. Add or remove washers (6) to bring latch to correct height. Re-install holder with **thread-rivets** using rivet tool and apply lock tight glue to threads of bolt
 - b) **Vertical adjustment in case of Thread-rivets for L-metal:** For vertical adjustment, Unscrew the mounting screws (9). Add or remove washers (6) to bring latch to correct height. Install the mounting screws back. Apply lock tight glue to threads.
 - c) **Depth adjustment in case of Shim plate striker,** drill off holder pop-rivets (5) and replace with spring loaded striker assembly according to instruction given in next chapter. Re-install holder with **thread-rivets** using rivet tool and apply lock tight glue to threads of bolt.
 - d) **Depth adjustment in case of Spring loaded striker:** Adjust the depth of striker by loosening or tightening the two spring mounted nuts and bolts behind the striker (10).
6. Once adjustment is ready, re-install door top cover (3).
7. Power on cabinet and execute SAT test (Service acceptance test). All tests must pass.



Shim plate striker



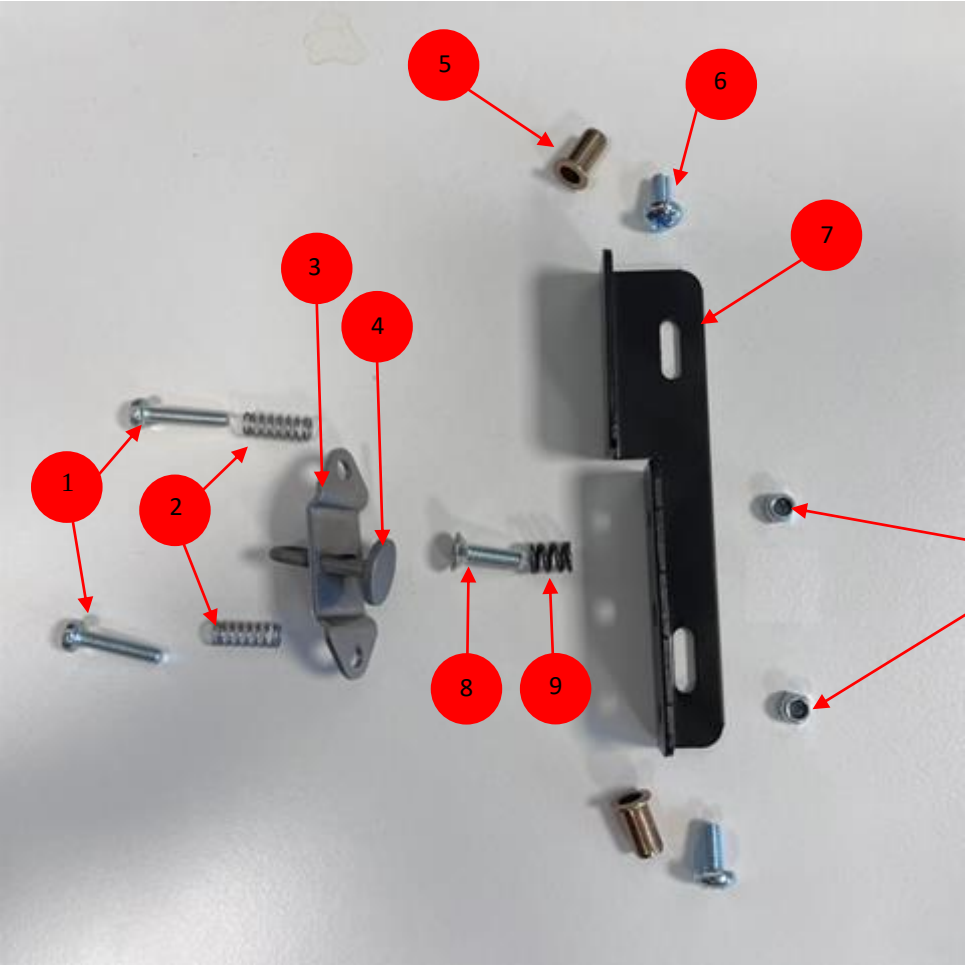
Spring loaded striker

Replacing shim plate striker to spring loaded striker

Replacing shim plate striker to spring loaded striker can be done on-site.

Tools needed:

- screwdriver / T handle with PH2 tip
- Drill and drill bits up to 10mm
- Threaded rivets insert tool and M5 threaded rivets
- Spring, screws, and washers (refer to parts list)
- Rubber hammer or similar



Spring loaded striker parts, provided as spare part kit.

Parts List:

Number	Part	Location	Amount
1	Machine screws	Striker sides	2
2	Side spring	On part (1)	2
3	Striker hook holder	On L-shape body	1

4	Striker hook	In part (3)	1
5	Threaded rivets M5	On cabinet door	2
6	Machine screws, M5	Mounting screws of L-shape body	2
7	L-shape body	On cabinet door	1
8	Flat head Machine screw	Behind striker tip	1
9	Middle spring	on part (8)	1
10	Locking nut	End of part (9)	2

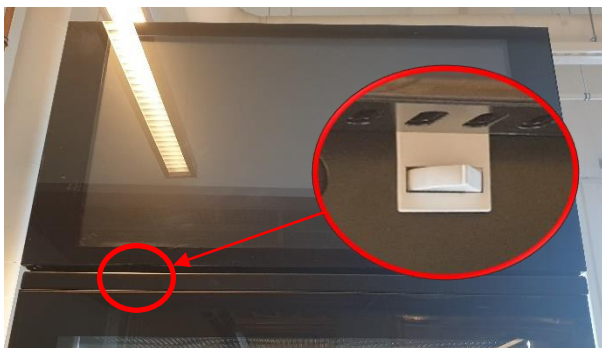
1. Remove door top cover attached with mounting screws 4 pcs.
2. Drill off holder pop-rivets and remove holder.
3. Remove or press in the remains of pop-rivets. **Note!** in case holes are smaller than threaded rivets, the holes must be widened by drilling the holes to their size.
4. Install the new thread rivets by threaded rivet insert tool.
5. Install L-shape holder of striker.
6. Check the striker is in same level as center of the lock. if needed washers must be added under L-shape holder to adjust the height.
7. Adjust horizontal position.
8. Adjust depth of striker by loosening or tightening the two screws with springs on the sides of striker. Observe that locking is successful and lock sensor triggers with various kind of door movements.
9. Once adjustment is ready, re-install door top cover.
10. Power on cabinet and execute SAT test (Service acceptance test). All tests must pass.

Door switch replacement

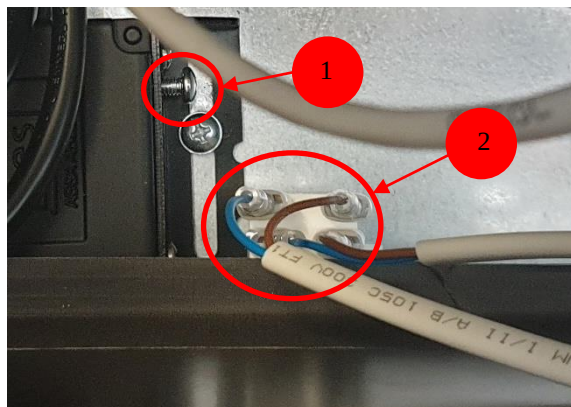
Door switch can be replaced on-site. Cabinet top panel need to be removed to access door switch.

Tools needed:

- screwdriver / T handle with PH2 tip



Door switch location



Door switch wiring (2) and manual-open bolt (1)

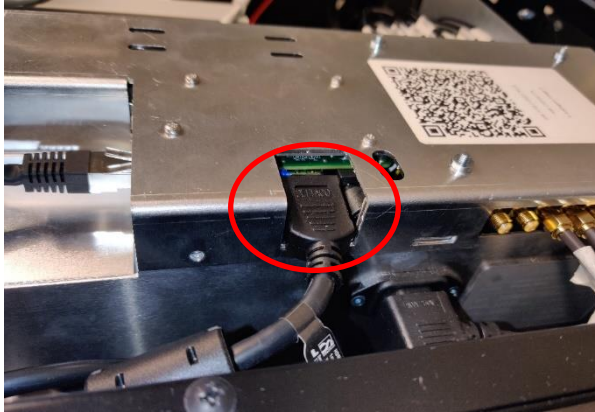
1. Remove cabinet top panel.
2. **Freezer:** Since in the freezer there isn't enough space to access door switch easily (or the door switch might be partially blocked by front display frame), the display frame must be removed first (refer to display replacement section).
3. Force e-lock to unlock by tightening manual-open bolt until seated (2).
4. Unplug door switch wires.
5. If the front top of the door switched is blocked by bottom of display, remove the display (refer to Display replacement)
6. Remove old door switch by compressing its plastic latches and replace it with new one.
7. Connect door switch wires. Polarity does not matter. Correct wires are identified by size.
8. Loosen manual open bolt if seated.
9. **Freezer:** Install the display frame on cabinet.
10. Re-install cabinet top panel.
11. Power on cabinet and execute SAT test (Service acceptance test). All tests must pass.

Display HDMI cable replacement

Display HDMI cable can be changed on-site. Cabinet top panel needs to be removed to access display HDMI cable.

Tools needed:

- screwdriver / T handle with PH2 tip
- EMI tape



Connection box end of HDMI cable



Display end of HDMI cable

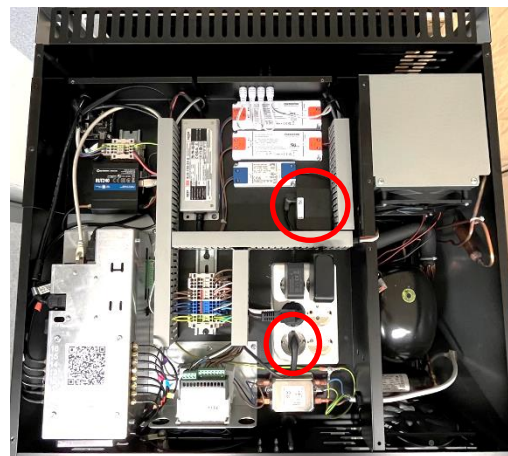
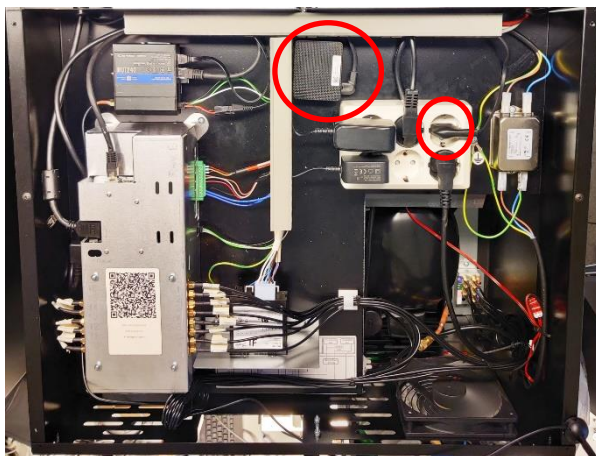
3. Remove cabinet top panel.
4. **Freezer:** due to lack of space behind the display, remove the display housing (refer to display replacement section)
5. Remove EMI tape behind display.
6. Unplug HDMI cable and replace it with new one.
7. Install new EMI tape behind display.
8. **Freezer:** Install the display frame on cabinet.
9. Re-install cabinet top panel.
10. Power on cabinet and confirm visually that display is active.
11. Execute SAT test (Service acceptance test). All tests must pass.

Display power supply replacement

Display power supply can be replaced on-site. Cabinet top panel needs to be removed to access the display power supply.

Tools needed:

- screwdriver / T handle with PH2 tip



Power supply location and mounting screws on fridge (left) and freezer (right)

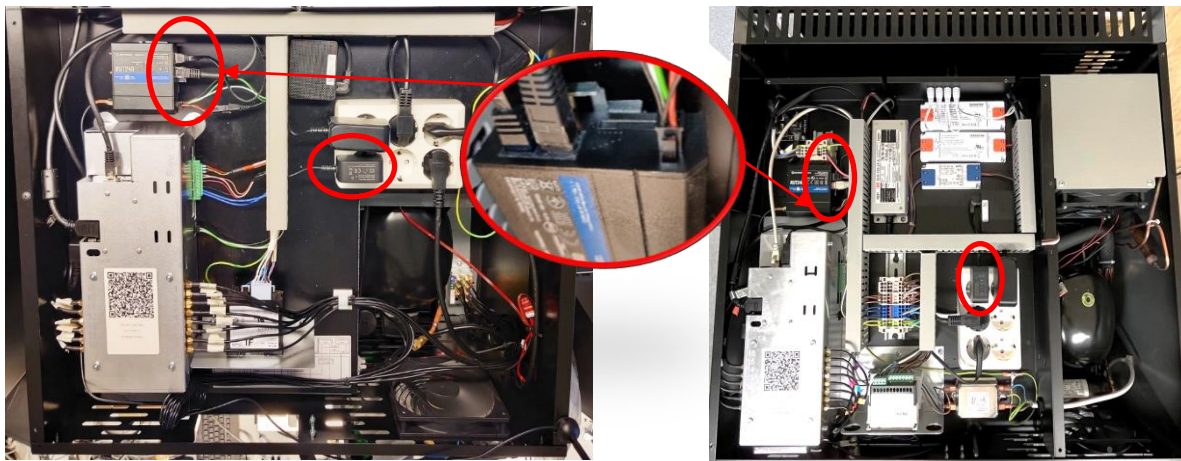
1. Remove cabinet top panel.
2. Unplug AC plug from power supply and DC plug from display.
3. Replace power supply. (Power supply is held to tray by a small amount of glue under it)
4. Plug in AC and DC plugs.
5. Re-install cabinet top panel.
6. Power on cabinet and confirm visually that display is active.
7. Execute SAT test (Service acceptance test). All tests must pass.

Mobile router and power supply replacement

Remove cabinet top panel to replace router.

Tools needed:

- Screwdriver / T handle with PH2 tip



Router and power supply location in fridge (left) and freezer (right).

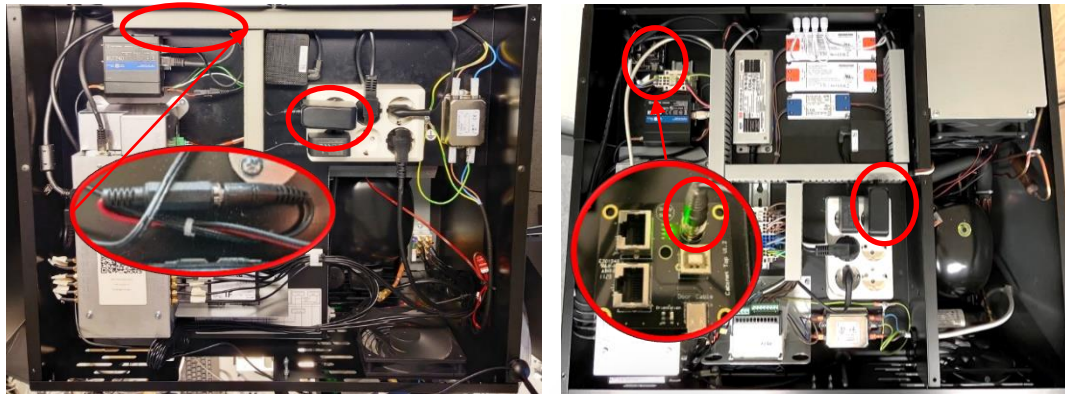
1. Remove cabinet top panel.
2. Remove ethernet and power cables from router. **Note!** With Valina payment terminal both of ethernet ports might be connected, otherwise only one ethernet port is connected.
3. Use 8 mm open end wrench or 8 mm torque wrench to unscrew antenna cable.
4. Press metal latch behind ethernet connector as shown to free modem from DIN rail.
5. Replace router power supply if needed.
6. Insert SIM card into new modem.
7. Attach modem to DIN rail.
8. Use torque wrench to tighten RF-cable connectors to 0,5 Nm (5 in-lbs) torque.
9. Plug in ethernet and power cables.
10. Power on cabinet and confirm visually that router lights turn on (power LED and network signal LED).
11. Execute SAT test (Service acceptance test). All tests must pass.

Payment terminal power supply replacement

Remove cabinet top panel to replace payment terminal power supply.

Tools needed:

- Screwdriver / T handle with PH2 tip



Payment terminal power supply and DC plug location on Fridge (left) and Freezer (right).

1. Unplug power supply from mains power connector
2. **Cabinet without universal cabling :** Unplug DC plug from payment terminal wiring harness.
Cabinet with universal cabling: Unplug DC plug from universal door cable board.
3. Remove the old power supply and replace it with a new one.
4. Plug DC plug and mains power connector.
5. Power on cabinet and confirm visually that payment terminal screen is active.
6. Execute SAT test (Service acceptance test). All tests must pass.

Payment terminal replacement: Valina

The Valina payment terminal can be replaced on-site. Removal of Valina payment terminal requires a pair of special access keys.

Tools needed:

- Screwdriver / T handle with T20 tip
- Valina holder access key



Plastic cover mounting bolt locations



Valina access keys

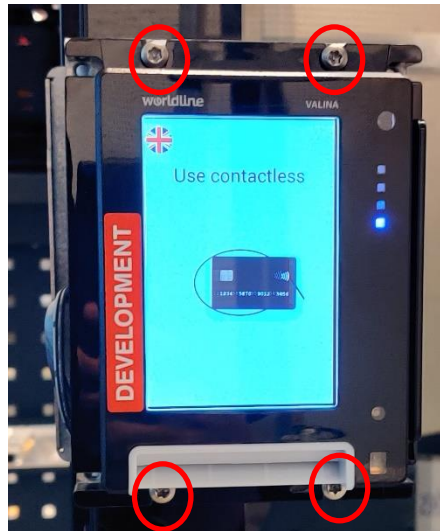


Placing the metal hook plates to remove the plastic cover

1. Insert the keys to both sides of the payment terminal.
2. Pull the keys outwards and remove the front cover.

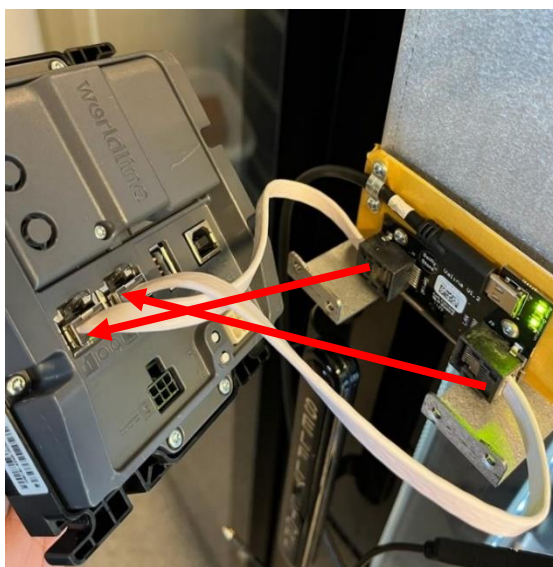


Plastic cover mounting bolt locations



Payment terminal mounting bolt locations

3. Remove plastic cover mounting bolts (4 pcs) and remove the plastic cover.
4. Remove payment terminal mounting bolts (4 pcs).



Cable connections between payment terminal and universal door cable

5. **Cabinet with universal cabling:** disconnect the Ethernet cables from Valina to universal door cable board.
Note correct installation order.
6. Replace the payment terminal.
7. Install the new payment terminal using old bolts.
8. Install plastic cover using old bolts.
9. Install the front cover.
10. Power on cabinet and confirm visually that Valina screen is active.

Payment terminal: Valina PSAM installation

The Valina payment terminal secure module (PSAM) can be replaced on-site. PSAM requires access to terminal backside, refer to chapter “Payment terminal replacement: Valina”.

Tools needed:

- Screwdriver / T handle with T8 tip



PSAM cover mounting screw location



PSAM installation



PSAM holder locking screw location

1. Remove PSAM cover mounting screw (1pc) and remove the mounting cover.
2. Remove PSAM holder locking screw (1oc) and open PSAM holder. Install PSAM to holder according to picture. Note! The color of the PSAM holder may vary.
3. Close PSAM holder until you hear a **click**. Install holder mounting screw.
4. Install PSAM cover using old screw.
5. Power on cabinet and confirm visually that Valina screen is active.

Payment terminal replacement: Nayax

Payment terminal can be replaced on-site. Nayax payment terminal USB-Serial adapter is also located behind payment terminal and can be replaced on-site with same instructions. Replacement requires removal of plastic payment terminal cover.

Tools needed:

- 4 mm hex key.



Plastic cover mounting bolt locations



Payment terminal mounting bolt locations



Cabinet without universal cabling



Cabinet with universal cabling

1. Remove plastic cover mounting bolts (4 pcs).
2. Remove plastic payment terminal cover from cabinet door.
3. Remove payment terminal mounting screws (4 pcs).
4. Unplug payment terminal wires. Be careful not to damage the connector. **Note! Cabinet with universal cabling boards revision V1.2 (marked on PCBs)**, before unplugging the USB-C cable, mark the USB-C cable orientation with pencil. Cable only works in one orientation. This instruction does not apply to later board revisions.
5. Plug wires to new terminal or replace the adapter cables in case of cable replacement.
6. **Cabinet without universal cabling:** Secure all cable connections with heat shrink tube, installation tape or similar.
7. Mount the new payment terminal using mounting screws from the old terminal.
Cabinet without universal cabling: Terminal must have SIM card installed.
Cabinet with universal cabling: SIM card must be removed.
8. Re-install plastic cover.

9. Power on cabinet and confirm visually that Nayax screen is active.
10. Execute SAT test (Service acceptance test). Nayax tests must pass.

Payment terminal replacement: MyPOS

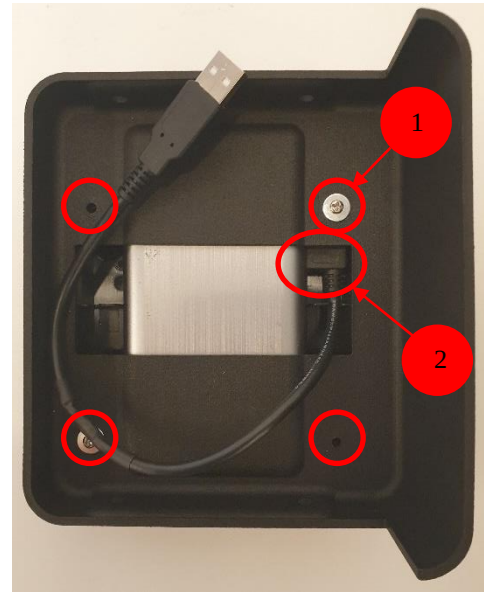
Payment terminal can be replaced on-site.

Tool needed:

- screwdriver / T handle with PH2 tip
- 4 mm Hex key



Mounting screws for plastic payment terminal cover



Mounting screws (1) and USB connector (2)



Cabinet with universal cabling

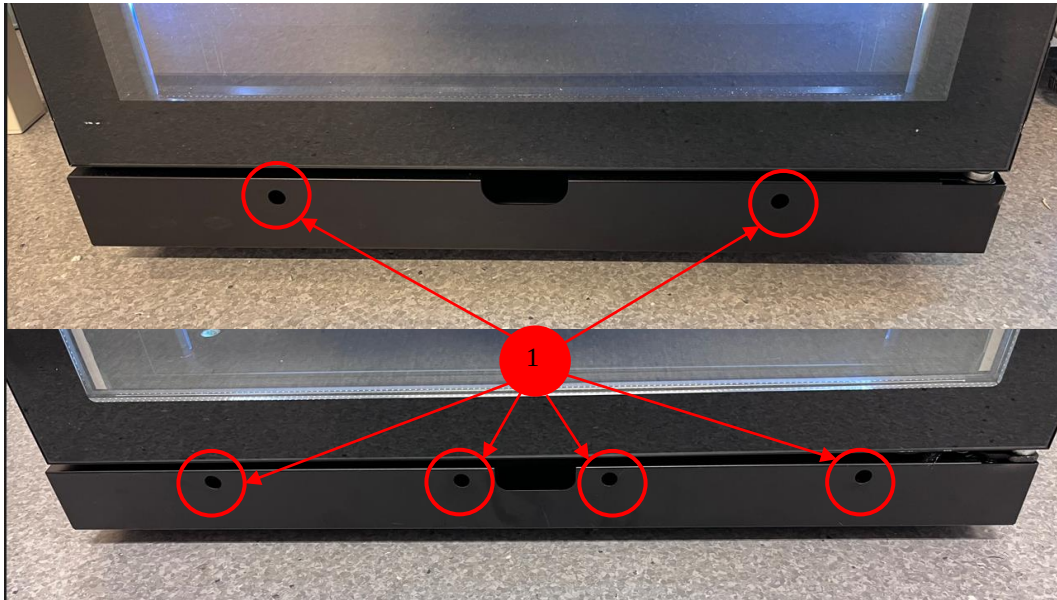
1. Remove plastic cover mounting bolts (4 pcs).
2. Remove plastic payment terminal cover from cabinet door.
3. Remove payment terminal mounting screws (4 pcs).
4. **Cabinet without universal cabling:** Short USB cable inside holder can be replaced. Remove heat shrink tubes and disconnect short cable from door cable, replace short cable with new one. Apply heat shrink tube to interconnection of door cable and short adapter cable.
5. **Cabinet with universal cabling:** PCB board and short USB cable may be replaced. Remove screws of cable clamps and replace necessary parts, re-install screws. When connecting USB-C cables to board, follow that power LED and cable orientation LEDs turn on. Rotate connectors in case LED is off.
6. Connect short USB cable to payment terminal.
7. Mount new payment terminal to plastic cover.
8. Re-install plastic cover to door. **Note!** Make sure that USB cable is not routed near terminal bottom area as there is integrated cellular antenna on payment terminal. USB cable extra length is pushed inside the door frame through door cable hole.
9. Execute SAT test (Service acceptance test). MyPOS tests must pass.

Door / Lower hinge replacement

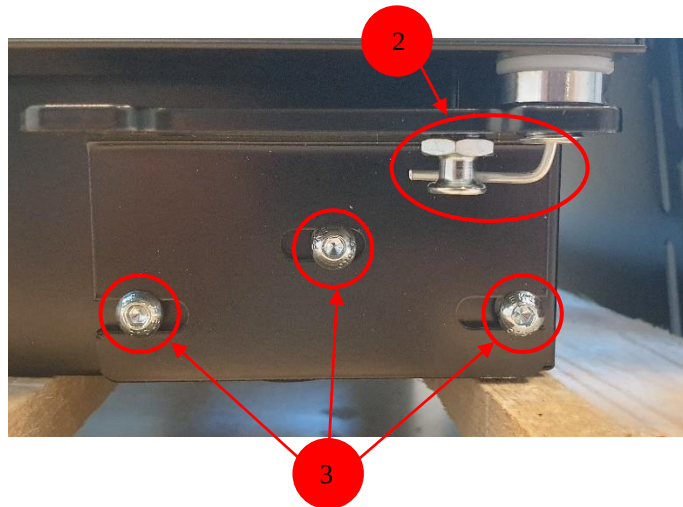
Door is not normally replaced on-site. Door lock needs to be unlocked during door removal and installation. Tighten manual-open bolt to unlock e-lock. **CAUTION! Door spring has a great amount of stored energy. Use eye protection and cut protection gloves when working on door spring!**

Tools needed:

- 4 mm hex key
- 8 mm open end wrench



Lower door cover and mounting screws on Fridge (Up, 2 screws) and Freezer (Down, 4 screws)



Door upper lower and its mounting screws

1. Tip the cabinet on its back so that the door is pointing up.
2. Tighten manual-open bolt to unlock e-lock.
3. **Freezer:** Remove the display frame (refer to display replacement section)
4. **Freezer:** disconnect door heater power cables near the door lower hinge.
5. Unscrew lower hinge mounting bolts (3). Be careful, torsion bar spring has great amount of stored energy (2).
6. Lift door bottom and carefully unwind spring by rotating lower hinge.
7. Remove the lower hinge and hinge bracket.
8. If replacing only the lower hinge, skip to step 14.
9. Unplug door cable connections.
10. Pull door away from upper hinge.
11. Pull out the door cables from the upper hinge.
12. Replace door.
13. Push door cables through upper hinge.
14. Push door upwards so that it slides in upper hinge. Be careful not to damage cables.
15. Insert hinge bracket and pin so that door spring goes through the pin hole.
16. Lift the lower part of door and tighten door spring 5 turns by rotating lower hinge.
17. Secure lower hinge back in its place with mounting bolts (3).
18. If replacing only door lower hinge, skip to step 22.
19. Connect door cable connections.
20. **Freezer:** Connect door heater power cables.
21. **Freezer:** Re-install the display frame.
22. Lift cabinet back to its upright position.
23. Perform lock adjustment, refer to chapter "E-lock adjustment".
24. Cabinet should be kept still before turning it on for at least 24 hours.
25. Execute SAT test (Service acceptance test). All tests must pass.

Door handle replacement

Door handle can be replaced on-site.

Tools needed:

- screwdriver / T handle with PH2 tip



Door handle mounting screws

1. Unscrew mounting screws (2 pcs) to remove door handle.
2. Use screws from the old door handle to install the new handle.
3. Confirm visually that the handle is tightened and not moving.

Door cable / upper hinge replacement

Door cable or upper hinge are not normally replaced on on-site. If such an operation is performed, door falling must be prevented with e.g. cargo cloth around the cabinet.

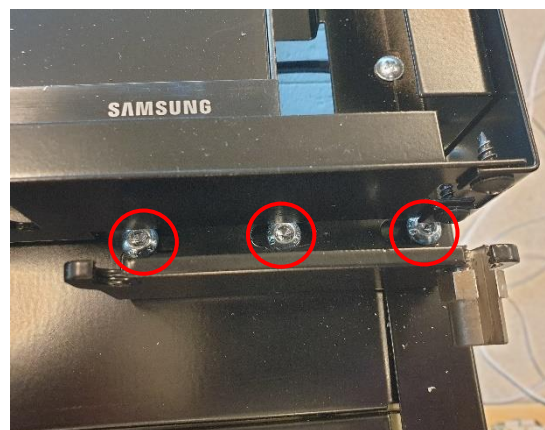
Door lock needs to be unlocked during door removal and installation. Tighten manual-open bolt to unlock e-lock. Display frame needs to be removed to access door upper hinge.

Tools needed:

- screwdriver / T handle with PH2 tip / PH3 tip
- 4 mm hex key
- 13 mm open end wrench



Display frame and its mounting bolts.



Door upper hinge bracket and its mounting screws.

1. Secure the door with cargo cloth around the cabinet
2. Remove display plexiglass
3. Unscrew the display frame mounting bolts and remove display frame.
4. Use 13 mm open end wrench to turn the hinge pin so that the groove lines up with the groove in the hinge bracket.
5. Unscrew hinge bracket bolts and pull bracket out of door.
6. Pull door cables out of hinge pin.
7. If the door cable is replaced, use the old cable as pull wire, and pull new cable inside the door from top to bottom.
8. Replace hinge pin and/or hinge bracket.
9. Insert cables into groove of new hinge pin.
10. Insert hinge pin into door and screw hinge bracket back in its place.
11. Screw display frame back in its place.
12. Install display plexiglass.
13. Perform lock adjustment, refer to chapter "E-lock adjustment".
14. Execute SAT test (Service acceptance test). All tests must pass.

Door gasket replacement

Door gasket can be replaced on-site.

Tools needed:

- None



Door EMI gasket

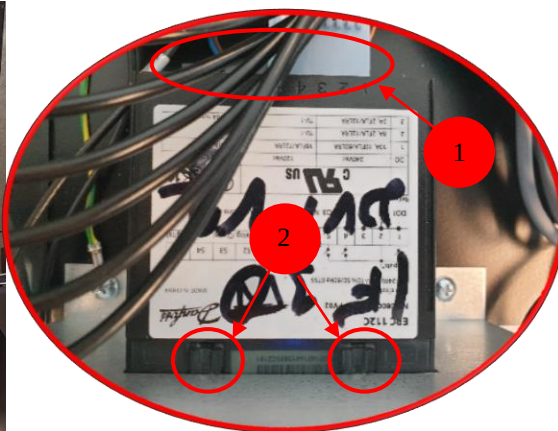
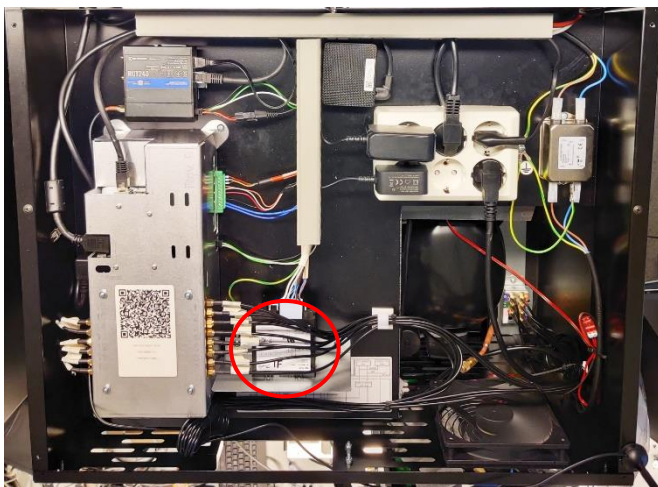
1. Tighten manual-open bolt to unlock e-lock.
2. Remove old door EMI gasket by pulling outside.
3. Install new EMI gasket by pushing gasket in its groove by hands. Start from the upper corners and work your way down.
4. Close the door and verify visually that there are no gaps between gasket and door frame. If needed, perform lock adjustment, refer to chapter “E-lock adjustment”.
5. Execute SAT test (Service acceptance test). All tests must pass.

Refrigeration controller replacement

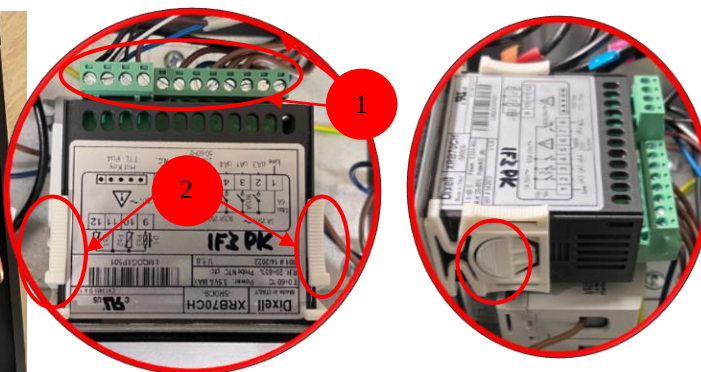
CAUTION: Disconnect mains power before touching refrigeration system control module wires. Control module is connected to 230 VAC.

Tools needed:

- None



Selfly Model 3 Fridge: Refrigeration system control module location, connectors (1) and mounting clips (2).



Selfly Model 3 Freezer: Refrigeration system control module location, connectors (1) and mounting clips (2).

1. Disconnect all cables from module.
2. **Fridge:** Remove control module by squeezing mounting clips while pulling module out from its bracket.
Freezer: Remove mounting clips by pressing the middle and pushing it back.
3. Install new control module. Make sure module locks in its place.
4. Connect all cables.
5. Execute SAT test (Service acceptance test). All tests must pass.

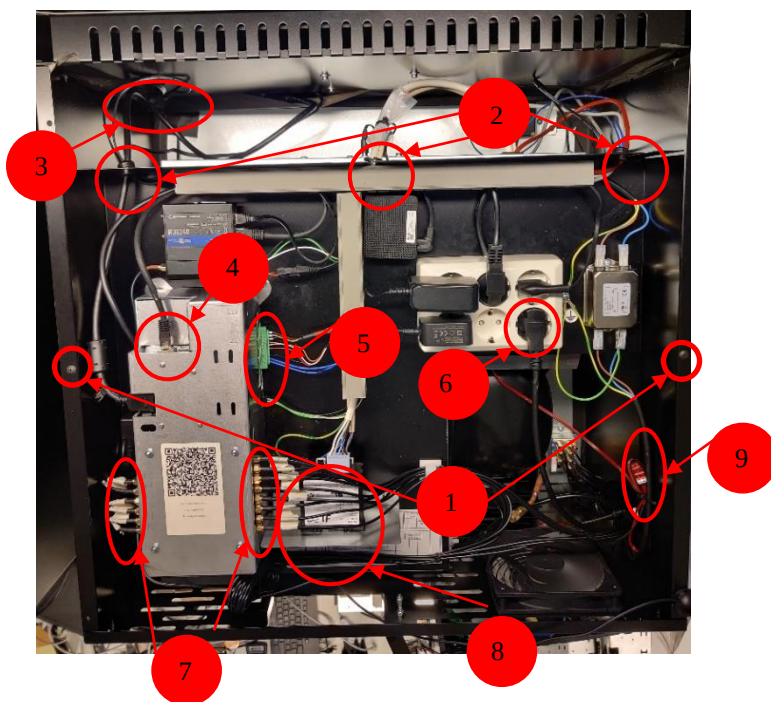
Refrigeration cassette replacement

ONLY Selfly Model 3 Fridge: Refrigeration system control module can be replaced on-site. This process is **not possible for Freezer due to weight of cassette and electrical connections.**

Refrigeration cassette of Selfly Model 3 Fridge can be replaced on-site. The cassette shall be kept in stationary orientation, large air ventilation openings downwards, during storage, shipping and installation. Otherwise, liquids and oils inside the cooling system may flow to wrong places. Accessory tray above refrigeration system cassette needs to be removed to access refrigeration system cassette. **CAUTION: Disconnect mains power before touching refrigeration system control module wires. Control module is connected to 230 VAC.**

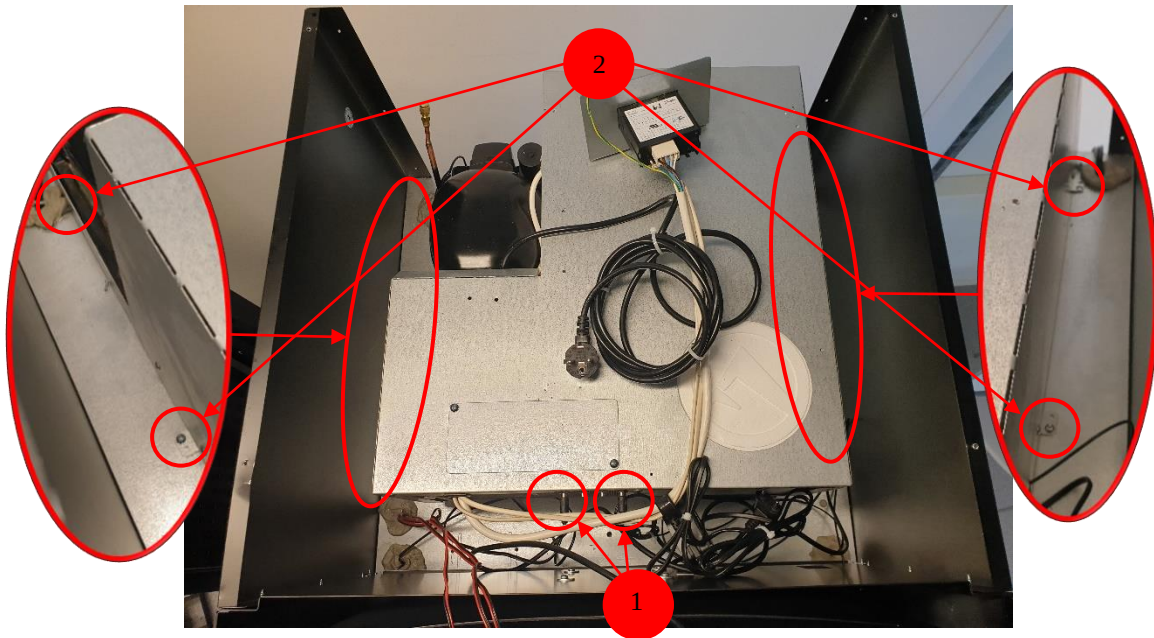
Tools needed:

- screwdriver / T handle with PH2 tip
- EMI tape



Accessory tray mounting bolts (1) and connectors.

1. Remove accessory tray mounting screws (1).
2. Remove rear fan power cables.
3. Remove the rear panel mounting screws.
4. Remove EMI tape and unplug display DC power cable and HDMI cable (3).
5. Unplug USB/ethernet cable (4).
6. Remove e-lock/temperature sensor cables from connector (5).
7. Unplug refrigeration system AC plug (6).
8. Unscrew antenna cables (7).
9. Disconnect all cables from refrigeration control module (8). Remove module bracket (8) and move it out of component tray. (it will be removed along with cassette).
10. Remove cable ducts (2) and move all cables out of the way so that component tray can be lifted off the cabinet.



Refrigeration system cassette mounting screws (2) and LED lighting connectors (1)

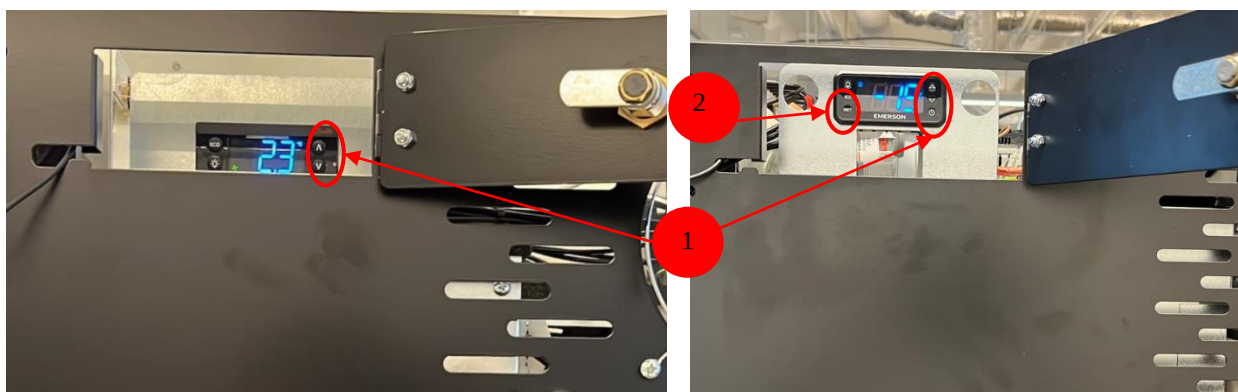
1. Unplug LED lighting DC plugs (1).
2. Remove refrigeration system cassette mounting screws (2).
3. Replace refrigeration system with new unit. **Caution:** The compressor side of the cassette is noticeably heavier than the other side. **Caution:** There is Styrofoam under the cooling cassette to prevent the leakage of cold air. Be careful not to damage the foam when removing the cooling cassette. First lift the cassette upwards before moving it out.
4. Install everything in reverse order.
5. Execute SAT test (Service acceptance test). All tests must pass.

Refrigeration system temperature adjustment

Refrigeration system target temperature can be changed from the controller backside of cabinet.

Tools needed:

- Cabinet access key



Refrigeration system controller of Selfly Model 3 Fridge (Left) and Freezer (Right)

1. Open the locked hatch with cabinet key.
2. **Fridge:** Change the temperature with controller up and down arrow buttons (1). Adjustment range is +2...+30 C. Factory default values is +2.3C. High values >20C mean that cooling system is switched off and cabinet is run in ambient temperature. **Note!** Due to heat sources inside cabinet, some level of cooling is needed to maintain ambient temperature. Suitable settings need to be validated experimentally by changing the temperature and then following the actual value visible in cabinet display or Selfly Cloud. As a rule of thumb controller should have 5C lower value than ambient.
Freezer: To turn the temperature adjustment ON, keep pressing the SET (2) button until "C" blinks then confirm by pressing SET again. Change the temperature with controller up and down arrow buttons (1). Confirm the temperature by pressing SET. **Note!** Adjustment range for Freezer is -16...-24°C.
3. After adjustment, close and lock the hatch. Remove the access key.