INSTRUCTIONS FOR USE OF A TURNSTILE TYPE:

EASYGATE-SPA

(with electronics MLU5)

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1. INTRODUCTION

This instruction guide is intended for the operating employees and contains all the necessary information to successfully run an installed and operational turnstile. It is very important that the operator is thoroughly acquainted with this instruction guide prior to the device usage.

The installation of the turnstile, connection to the mains supply or the connection of the electrical control circuits of the turnstile are not a subject of this guide.

A Troubleshooting chapter which serves to help you analyze malfunctions before contacting the service department at COMINFO a.s. is a part of this guide. Analyzing malfunctions with this chapter will help to quickly eliminate the problem and put the turnstile into operation.

The Instructions employ the following categories of safety instructions:

DANGER!
Mechanical danger. Omission of these instructions may cause personal injuries or device damage.

WARNING!
Important information or procedure.

NOTICE!
Information or procedure recommending how to use the turnstile or its equipment optimally and thus prolong its lifetime, prevent potential damage and optimize work in relation to the safety standards.

2. PURPOSE - USE

The EASYGATE-SPA type turnstile is a device intended to control the entrance into specified area with the possibility of free exit through just one turnstile device. In general, it is used to control the movement of persons in various facilities such as:

- Transport systems
- Airports
- Sports and entertainment centres
- Administration buildings and complexes
- Access to toilets and showers

In principle, the entrance can be unblocked by the following methods:

- cash payment via the coin manager
- internal contactless cards reader (master cards)
- external access system (external opening)
- barcode reader
- contactless payment via contactless payment card

The coin manager, internal contactless cards reader and a setup for controlling through external access system are always part of basic configuration of the device.

The barcode reader and contactless payment cards reader are always optional accessories.

Optionally the device can include a printer which, based on its configuration, can print out closing balance statement, payment receipt or discount coupon with a barcode.

This turnstile is intended for indoor installation.

IT IS THE OPERATOR'S OBLIGATION TO ENSURE THAT PERSONS WHO WILL BE USING THIS TURNSTILE ARE WELL ACQUAINTED AND EDUCATED ABOUT USAGE OF THIS DEVICE ACCORDING TO THIS MANUAL.

This device may be used by children aged 8 years and older and persons with reduced physical, sensory or mental abilities or lack of experience and knowledge, provided they are under supervision or have been instructed in the safe use of the device and understand the potential dangers. Children must not play with the device. Cleaning and maintenance carried out by the user must not be carried out by unsupervised children. When a person under 8 years of age passes through the turnstile, it is necessary to be accompanied by a person over 18 years of age to ensure safe passage.

3. TECHNICAL DESCRIPTION OF THE TURNSTILE

3.1. BASIC DESCRIPTION

The EASYGATE-SPA motor turnstile consists of a turnstile housing with inner frame and stainless covers. The middle section of the right cover contains built-in MLU control unit and also superior electronics REA::RAP including the SM12 power supply. The display and printer are located in the upper part of the right cover. The coin manager is located in the front part of the right cover under the coin slot and the external CANCEL button. Under the plastic cover on the front vertical side of the right cover there is a internal contactless card reader and underneath it there is a slot for collection of returned coins. The superior REA::RAP electronics control the turnstile based on the status of the coin manager, internal contactless card reader, external access system, contactless payment card unit (optional), printer (optional), barcode reader (optional) and optical sensors of the turnstile. Instructions for the entering persons are displayed through graphic symbols on the display in the upper part of the unit.

The turnstile can operate in an OFF-LINE or ON-LINE mode. The ON-LINE mode presumes connection to superior CardPay system via the ETHERNET 100/10 Mb (UDP protocol) interface. In this mode it is possible to monitor and manage the whole device remotely. All permitted passages and alarm states are monitored and stored in the database. It is also possible to monitor the status of takings and process executed balance closings. In OFF-LINE mode the device operates according to settings via the REA:CONF configuration tool.

The device can also be connected to the third-party systems. It is possible to forward all executed passages, alarm states, error states, takings status and executed balance closings through the RS232 interface. The appropriate communication protocol can be supplied on request after signing an NDA.

The turnstile is a electromechanical device, its essential part is a compact motor drive unit consisting of an electric motor, electromechanical brake and speed sensor. Two drive units are used for one passage while each one has its own control electronics. The motor drive shaft is connected to the axis of wing rotation via v-belts. Optical sensors monitoring the presence and behavior of persons or objects are located in the passage corridor.

During maintenance or when replacing parts, the turnstile must be disconnected from the power supply.

All service works may be only carried out by a COMINFO service department employee or worker, who possess the certificate of installation schooling from the COMINFO Company.

Unprofessional manipulation can lead to damaging the turnstile or endangering people.

3.2. BASIC DIMENSIONS

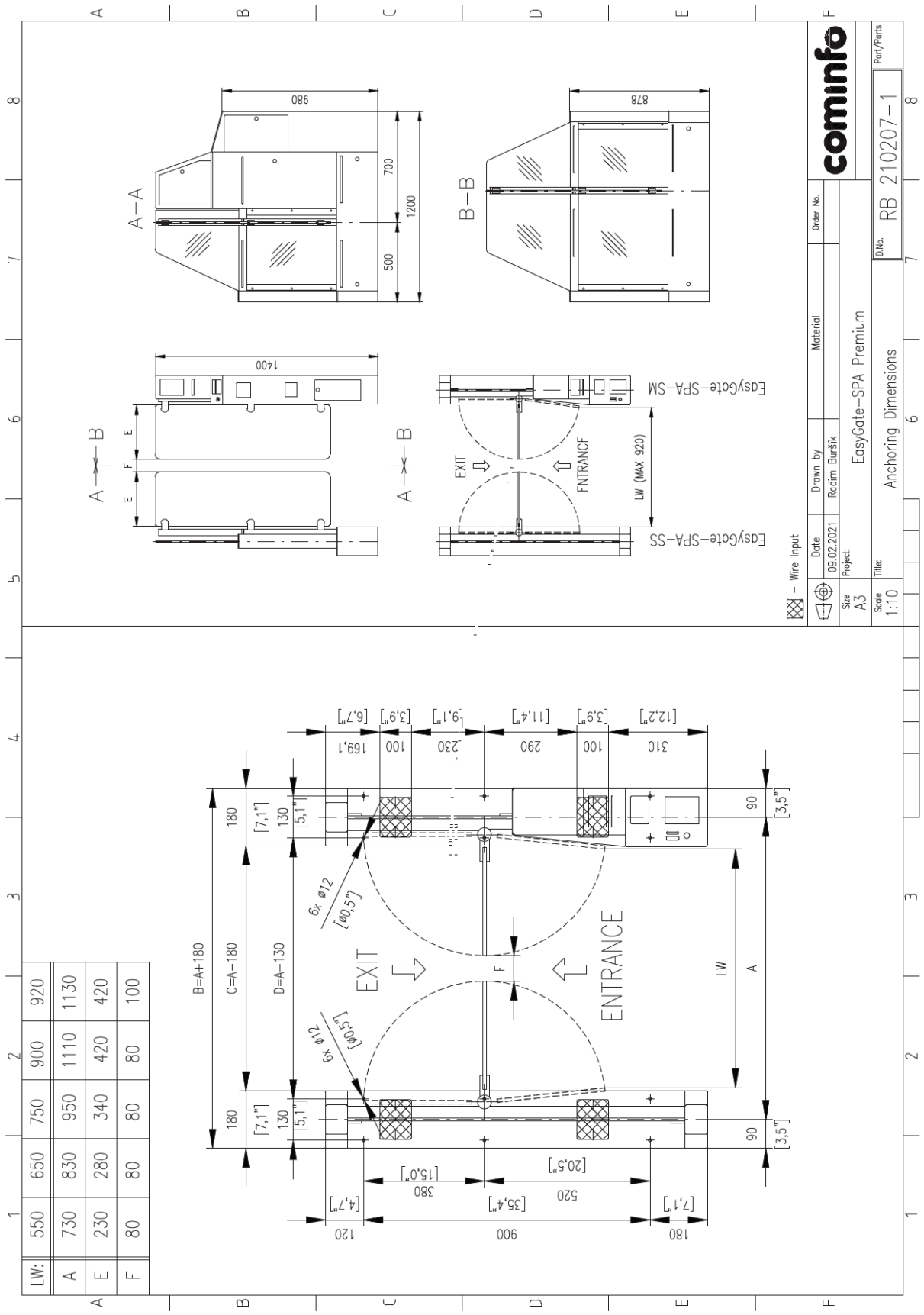

Figure 1: Dimensions of the turnstile and anchoring

4. BASIC TECHNICAL PARAMETERS

4.1. TECHNICAL PARAMETERS OF THE TURNSTILE

- Standard range of operating temperatures:
  +10°C… +50°C
- Range of storage temperatures: **+0°C… +50°C**
- Maximum relative humidity: **80%** (non-aggressive environment)
- MCBF: **15 000 000** cycles (number of cycles prior to defect)
- Number of passages ranges from **10 to 30 persons per minute** for one passage depending on the mode of operation and method of identification of passing persons
- Power supply: **230 VAC/2 A/50 Hz**; the device meets the requirements of the ČSN EN 61 140 standard.
  Input power of the turnstile is dependent on the mode of operation:
  40 W…. minimum input power in standby (idle) mode with standard mounting
  400 W….maximum input power while moving the wings (glass)
- Number of optical sensors: **24**
- The level of sound pressure generated by the device shall not exceed **70 dB** (A).
- Coin box capacity: **1500 coins**
- Thermal paper requirements
  - Thermally sensitive outer side of the roll
  - Weight: max 80g/m^2
  - Width: 80mm
  - Outer diameter: max. 180mm
  - Inner diameter: 25mm

Materials the turnstile is made from:

Stainless steel materials are standardly of a brush type, AISI 304.
Inner steel parts are galvanized.

External covers:	Stainless steel sheet 1.5mm and 3.0mm
Turnstile wings:	Toughened glass 10mm
Side glass barrier:	Toughened glass 8mm
Identification system sensor cover plate:	Toughened glass 5mm

- The EASYGATE-SPA turnstiles are intended exclusively for indoor use.

4.2. TURNSTILE POWER SUPPLY OPTIONS

The required turnstile input power supply must be defined in the turnstile order, including the required optional accessories.

Turnstile input voltage:	**24VAC [2])**	**230VAC [3])**
Supercapacitors [1]):	✓	✓
Backup accumulator [1])	✓	✗

[1]) For description, please see chapter *Optional Accessories*.

[2]) Powered by an external backup source that meets the SELV power supply network requirements.

[3]) **The operator shall ensure that the supply line is equipped with a safety device to disconnect all poles (circuit breaker, residual-current protective device). The choice of the circuit breaker value must comply with the circuit selectivity. Recommended residual-current protective device is for example HAGER CDA 216D, 16A/I_{Δ}N=0,03A.**

The input power of the turnstile depends on the mode of operation and optional accessories used.

Input power of the turnstile in case of two-wing version:

- 6W minimum input power in standby (idle) mode without optional accessories
- 400W maximum input power including all optional accessories

5. GENERAL DESCRIPTION OF THE TURNSTILE

5.1. GENERAL DESCRIPTION

5.1.1. Definition of terms

1. Area in front of the turnstile
2. Entry side
3. Exit side
4. Area behind the turnstile
5. Right side of the turnstile
6. Left side of the turnstile

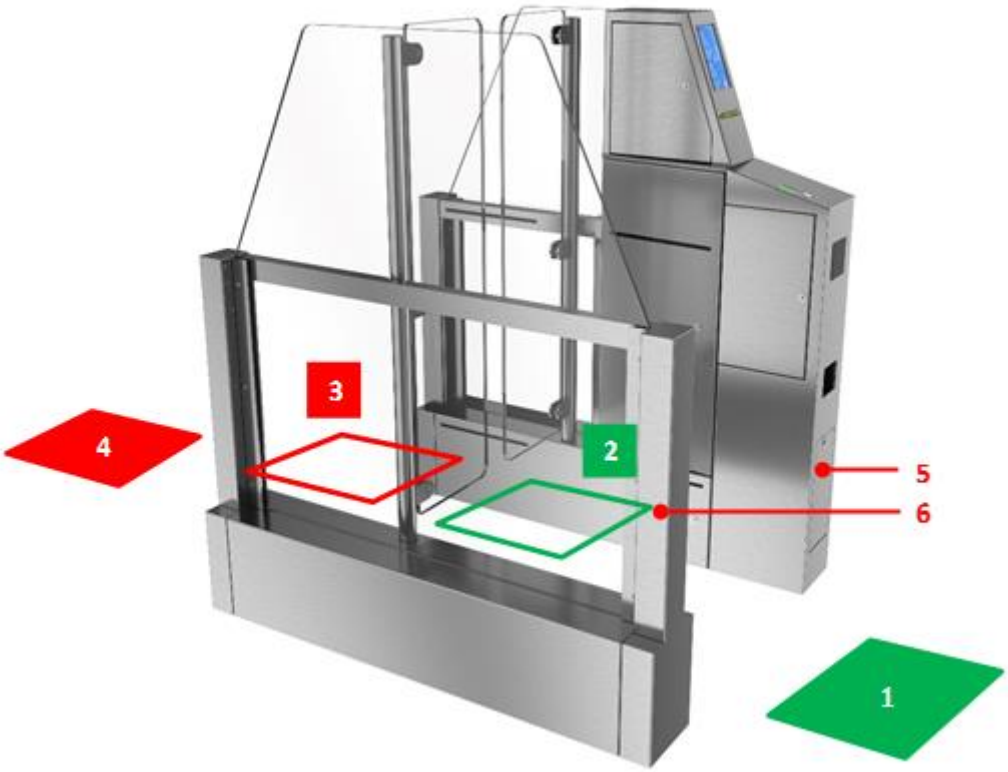

Figure 2: Turnstile space definition

5.1.2. Entry side of the turnstile

1. Turnstile wing with integrated drive unit
2. Display
3. Slot for collecting printed ticket
4. Inner top right cover (access to the display and printer)
5. Barcode scanner (optional accessory)
6. Coin slot
7. Contactless payment terminal for contactless cards (optional accessory)
8. External CANCEL button of the coin manager
9. Internal RFID reader
10. Coin manager cover
11. Inner right middle cover (access to the control electronics RAP, MLU, SM12)
12. Slot for taking returned coins
13. IR sensors for detection of passing persons
14. Coin box cover
15. Inner bottom right cover (access to the main circuit breaker, power supply parts and right turnstile wing drive unit)
16. Inner bottom left cover (access to the left turnstile wing drive unit)

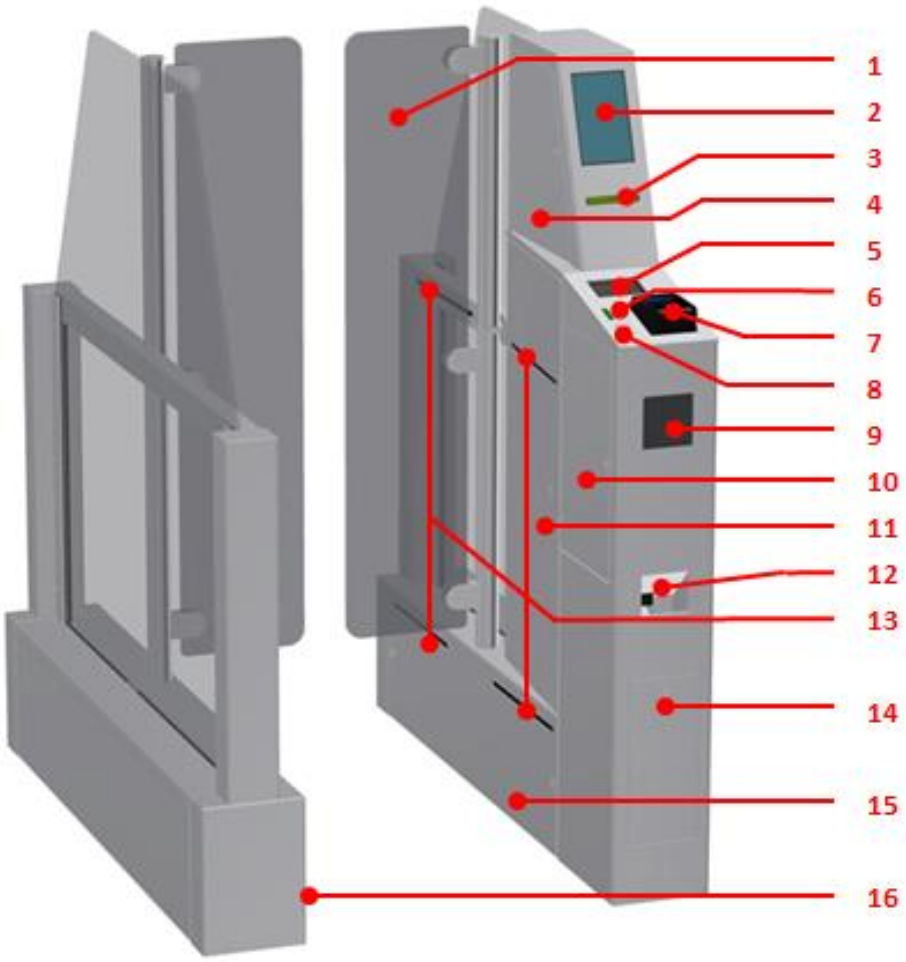

Figure 3: Entry side of the turnstile

5.1.3. Internal components of the turnstile

1. Coin manager
2. Printer (optional accessory)
3. Control electronics of REA::RAP device
4. Turnstile MLU control electronics
5. IR sensors electronics
6. Power supply SM12 (24VAC / 13.8VDC)
7. Backup power supply for the right side of the turnstile
8. LAN connection for REA::RAP
9. Terminal board
10. Toroidal transformer 230/24 VAC (behind the cover)
11. Power supply terminal 230VAC

12. Main supply circuit breaker 230VAC
13. A two-pole circuit breaker 24VAC (in front of SM12)
14. A soft start circuit for the toroidal transformer
15. Industrial power supply 230VAC / 24VDC 5A
16. Electromechanical brake for the right turnstile wing
17. MDD drive unit for the right turnstile wing
18. MDD drive unit for the left turnstile wing
19. Electromechanical brake for the left turnstile wing
20. Power supply SM12 (24VAC / 13.8VDC)
21. Backup power supply for the left side of the turnstile
22. Terminal board

Figure 4: Coin manager - cover of the coin manager

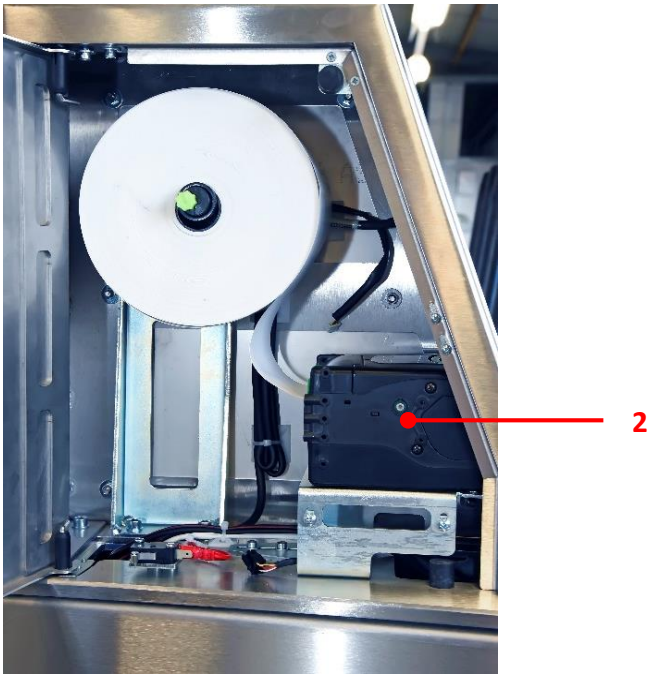

Figure 5: Printer - cover of the printer

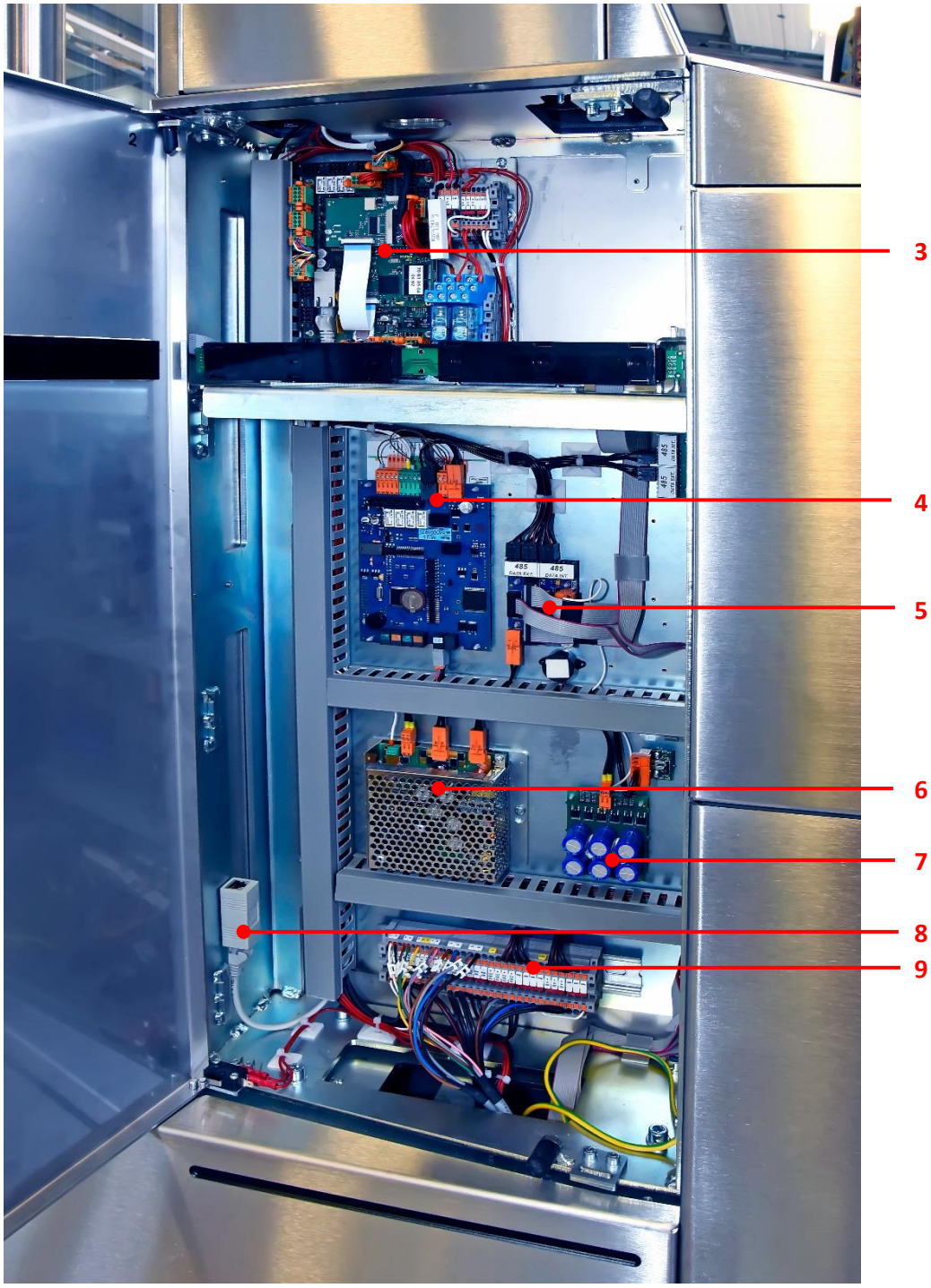

Figure 6: Inner arrangement of the turnstile - inner right middle cover

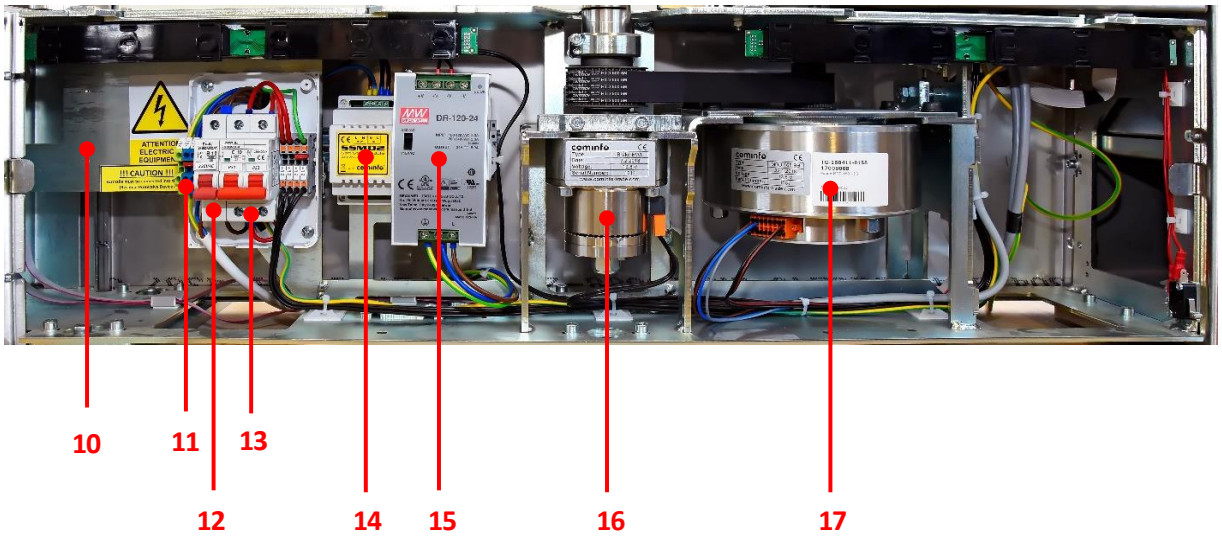

Figure 7: Inner arrangement of the turnstile - inner right bottom cover

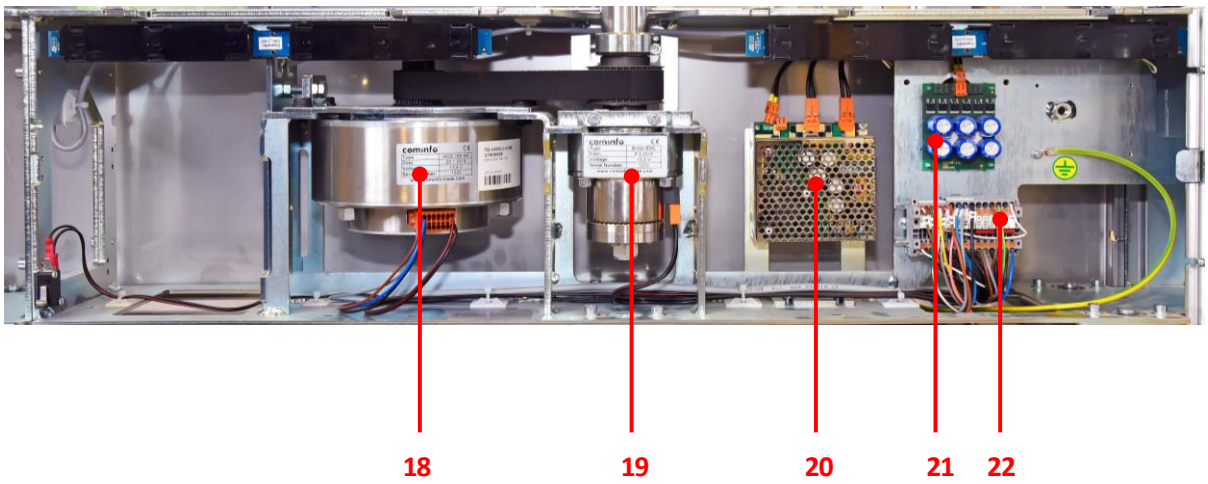

Figure 8: Inner arrangement of the turnstile - inner left bottom cover


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5.1.4. Removal and opening of the coin box

The coin box is accessible to the administrator or the lessee of the unit after unlocking the coin box cover lock and tilting the cover downwards (see Figure 9). It is necessary to pay attention to correct orientation of the box when reinserting empty coin box back into the unit, the lock on the box should face inwards the unit. The coin box can be opened (see Figure 10) with the same key. It is recommended to always unlock the coin box in a safe environment.

The cover of the coin box as well as the contents of the coin box itself are not accessible to the operator because it is secured with a different lock and therefore a different key intended only for the owner or lessee of the device.

Figure 9: Example of the coin box removal

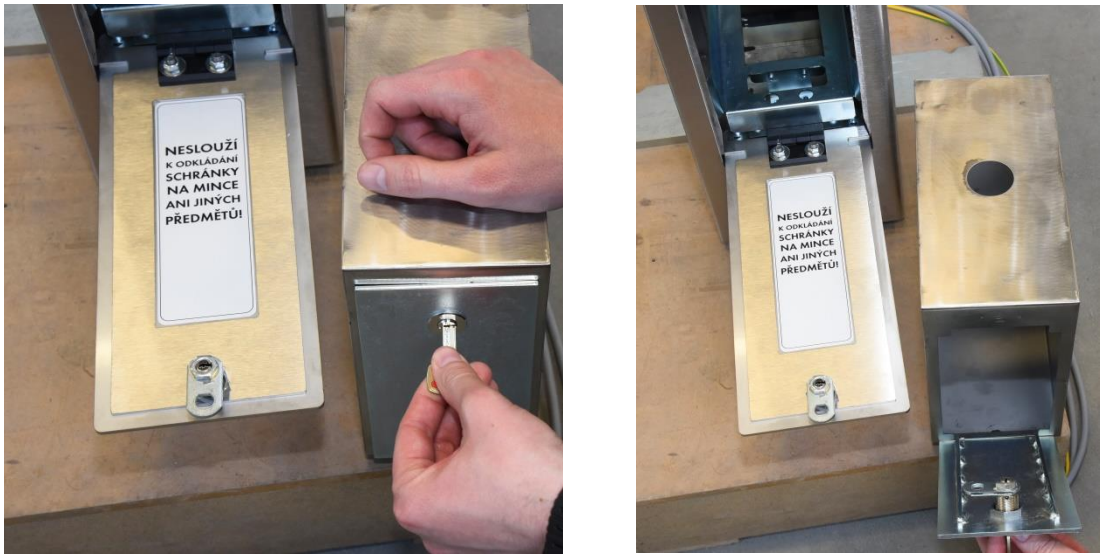


Figure 10: Opening of the coin box

5.1.5. Replacing the paper in the printer

The printer assembly including the exchangeable thermal paper roll is located behind the inner top right cover. After unlocking and opening the cover the operator can change the paper or realign the paper in case the printer was in an error state.
As a standard, the VKPIII printer made by the CUSTOM company is used in the EG-SPA device.

Instructions for replacing the paper in the printer:

1. Unlocking and opening of the inner top right cover with a suitable key for the operator (see Figure 11).

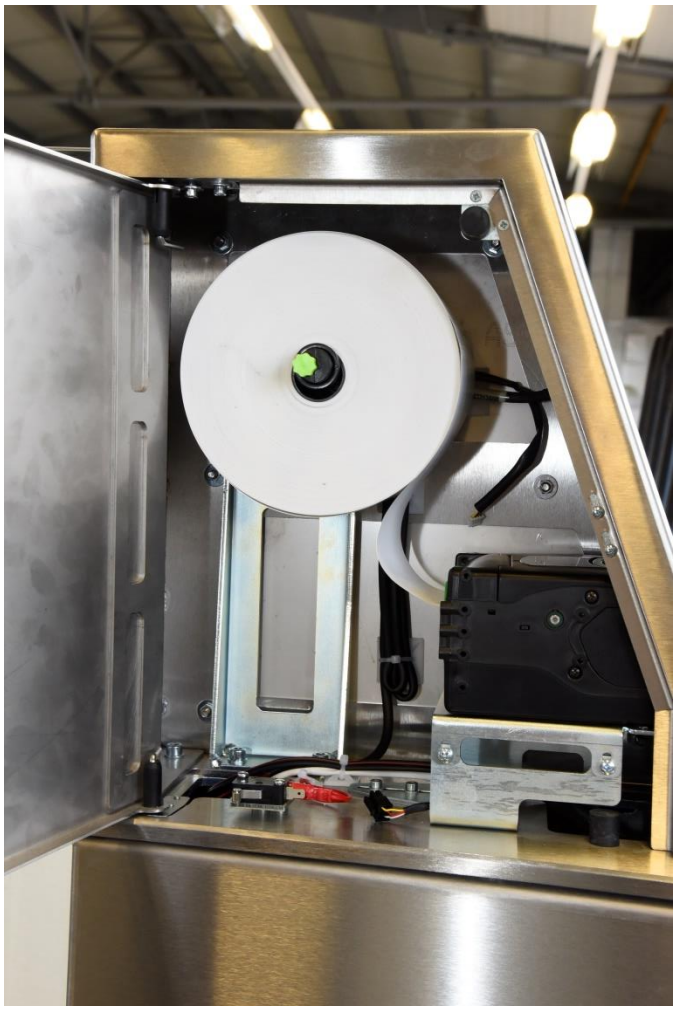


Figure 11: The printer with a thermal paper roll

2. Removing the thermal paper roll

Before removing the used thermal paper roll it is necessary to release the printing head at first, this is done by pressing the green button on the top side of the printer. It is then possible to lift this cover, pull out the remaining paper and remove the old paper roll (see Figure 12)

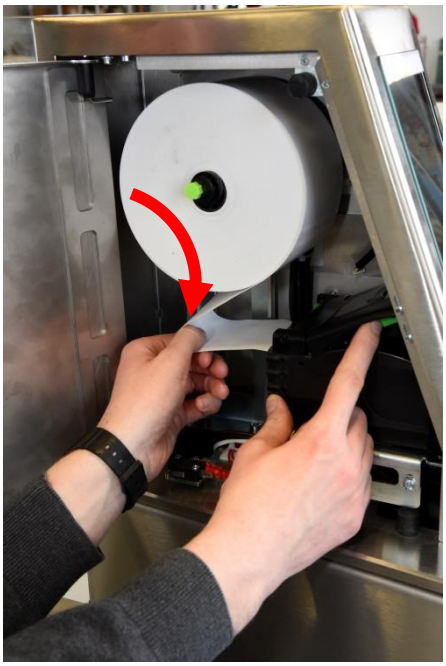


Figure 12: Releasing the top cover of the printer and pulling out the paper

3. Loading new paper roll and feeding the paper

The printer has so-called autofeed mechanism for feeding the paper. Before feeding new paper, it is necessary to close the top cover of the printer and then insert the thermal paper into the slot in the back side of the printer. The thermal paper must be oriented with the thermally sensitive side upwards. If the printer's power supply is on, the paper is loaded automatically and a control ticket is then printed.

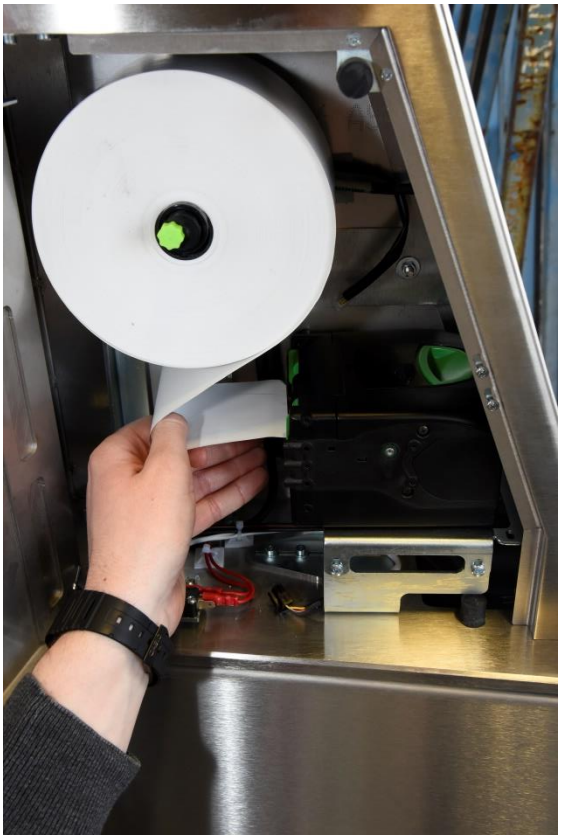


Figure 13: Inserting a new paper roll into the printer

4. Closing and locking of the inner top right cover with a suitable key for the operator

It is necessary to keep the printer mechanism clean for correct and long-lasting functionality of the printer. For detailed information and maintenance procedure please see the *Cleaning and maintenance of the printer* **chapter.**

5.1.6. Coin manager

The coin manager is accessible to the administrator or lessee of the unit after unlocking and opening the coin manager cover (see Figure 14). The coin manager is firmly attached to the internal side of the device by three M5 screws which are accessible after opening the top coin manager cover. This can be done by pressing the yellow button located in the upper right part of the coin manager (see Figure 15).

Figure 14: Installed coin manager

Figure 15: Instructions for mounting/dismounting the coin manager

As a standard, the CF7900 coin manager made by the MEI company is used in the EG-SPA device. The coin manager is equipped with an internal CANCEL button located in the upper part of the coin manager. This button is used for releasing the coins that didn't yet drop from the input area of the coin manager. It is possible to activate the CANCEL button from the outside without the necessity to open the device using the outer button located on the top cover of the device under the coin slot opening (see Figure 3).

It is necessary to keep the internal parts of the coin manager clean for its correct and long-lasting functionality. For detailed information and maintenance procedure please see the *Cleaning and maintenance of the coin manager* **chapter.**

5.1.7. Internal RFID reader

The internal RFID reader is used for reading the so-called special control cards. It is presumed that as a standard, these special cards are MIFARE UltraLight, MIFARE Classic or MIFARE DESFire.

The cards are divided into 2 categories:

- Device maintenance cards
- Single passage cards (V.I.P.)

Device maintenance cards

a) Card for permanently open mode
This card is used to permanently open (unblock) the passage. Using this card in a default state causes a change to permanently open state. Using this card in a permanently open state causes the device to return to default state, the permanently open state is canceled.

Figure 16: Card for permanently open mode

b) Card for Blocked mode (closed)
This card is used to permanently block (close) the passage. Using this card in a default state causes a change to permanently blocked state. Using this card in a permanently blocked state causes the device to return to default state, the permanently blocked state is canceled.

Figure 17: Card for Blocked mode

c) Balance closing card
This card is used to display the current takings status or to execute a balance closing. If the coin box is in its default position (inserted), the current takings status can be seen on the display after using this card. Balance closing is executed after using this card if the coin box is removed which is also dependent on the unlocked state of the coin box cover.

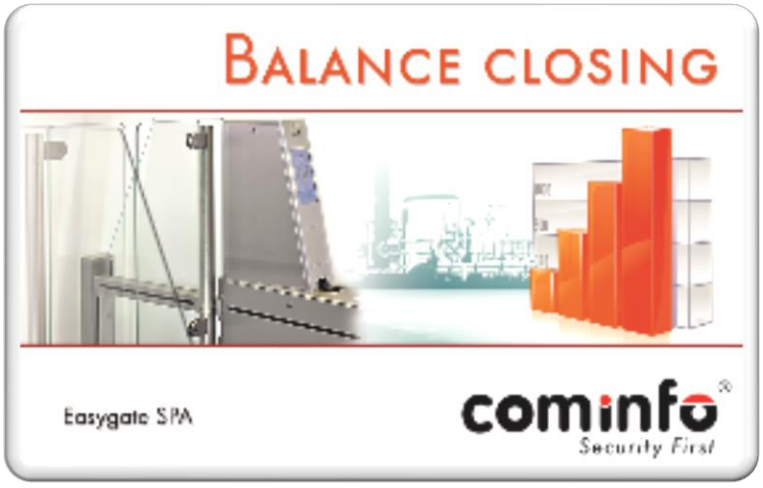


Figure 18: Balance closing card

All listed cards are designated only for the operator or the owner of the device.
As a standard the EG-SPA is supplied with 1pc of each listed card while it is possible to define up to 3pcs of each type into the device. Implementation (defining) of the listed cards is done through DIPSWITCH setting on the REA::RAP unit.

Single passage cards (V.I.P.)

These cards are designated for regular single opening (unblocking) of the passage. Using this card in a default state allows (unblocks) a single passage. The card is designated primarily for the resident users of the device but also for the owner and operator. Number and definition of acceptable cards depends on the mode the device is running in. In the OFF-LINE mode the number of cards is limited to 150 and their definition (implementation) is allowed to the owner by using the card while the coin box is removed. The unique card number is then added to the internal list of cards. In the ON-LINE mode you can additionally define unlimited number of cards through the CardPay system which then decides whether to allow/block the passage in a query mode. As a standard the EG-SPA device is supplied with 1pc of this card predefined for the OFF-LINE mode.

Figure 19: V.I.P. card

5.2. MANAGEMENT OF THE TURNSTILE'S LOCKS

Access to the individual internal parts of the device is granted only to authorized persons with keys to the cylindric locks located on the outside covers of the device. All the locks are the same ASSA ABLOY TESA 620 M10 type. The locks and keys are divided into two categories based on the level of access granted, these categories are distinguished by colours. Four identical keys for each colour are supplied as a standard.

Category 1: Operator of the device

Contains keys and locks to the following covers:

- inner top right side cover (printer, display)
- inner middle right side cover (REA::RAP electronics, MLU, SM12)
- inner bottom right side cover (circuit breaker, power supply, motor)
- inner bottom left side cover (SM12, motor)

For each device there is a unique lock and key for everyday maintenance of the device (replacing paper in the printer). One identical key is designated for all the above listed locks. Locks and keys of this category are marked by a blue colour.

Category 2: Lessee or the owner of the device

Contains keys and locks to the following covers:

- coin box cover
- access to the coin box
- coin manager cover

For each device there is a unique lock and key for accessing the coin box, taking the cash out of coin box and also to the coin manager. Locks and keys of this category are marked by a red colour. This key is generally intended for the lessee or owner of the device.

Positions of each lock are apparent from the following picture and its description (see Figure 20).
Furthermore the indicators are distinguished by colours based on the category.

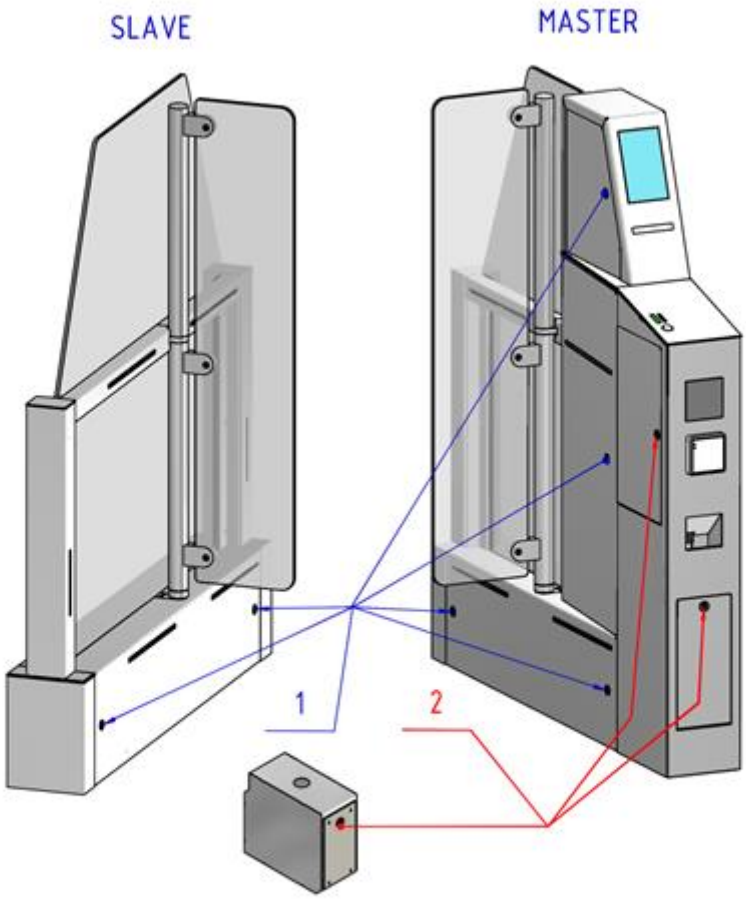


Figure 20: Location of the turnstile's locks

Manipulation with the TESA 620 M10 (ASSA-ABLOY) type lock:

- Horizontally insert the key into the lock.
- To unlock, turn the key to the left (anti-clockwise)

- Locking is done in the same way.
  It is possible to remove the key from the lock when in an unlocked state.

6. OPTIONAL ACCESSORIES

6.1. Hardware

- **Printer**
  It is used to print the payment receipts, closing balance statements etc.

- **Contactless payment card reader**
  The EG-SPA device is ready for installation of contactless payment card reader according to the EVA standard with MDB Level 3 interface (eg. PAYTER P66).
  Such EG-SPA device is furthermore equipped with a second LAN connector used to connect this reader to the banking system with a separate cable (see Figure 21).
  In this device configuration it is possible to unblock the passage with a contactless payment card while the user's bank account is charged for the amount required for a passage.

Figure 21: LAN connector for contactless payment reader

- **Access Light** [1]) (Front signaling LED display with integrated electronics):
  - Serves for signaling the location for use of the contactless cards.
  - Displays information on the turnstile passage mode in the given direction.

- **Barcode reader**
  Allows unblocking the passage with a barcode (only in an ON-LINE mode).

- **Wing Light** [1]) (optical status signaling):
  Serves for backlighting of the turnstile wings and displaying states of the given turnstile:
  Idle State / Passage / Off / EMERGENCY / ALARM

- **Wav Player**
  Acoustic signaling of turnstile states

- **Control Panel (CPT):**
  - Remote cable control and display of statuses of three to four turnstiles from one control panel
  - Activation of the following functions:
  Passage / Permanent Passage / Blocking / On / Off / EMERGENCY

- **Easy Touch:**
  - Remote cable control and display of statuses of any number of turnstiles from one control panel
  - Activation of the following functions:
  Passage / Permanent Passage / Blocking / On / Off / EMERGENCY

- **Backup accumulator:**
  The accumulator ensures continuous operation of the turnstile in case of power failure. The length of operation depends on the capacity of used accumulator. If the accumulator capacity is 18Ah, the operating time is approx. 6h.

- **Supercapacitors:**
  Supercapacitors ensure transition of the turnstile to the EMERGENCY state in case of power failure (automatic opening of the turnstile wings in the exit direction).

- **Identification systems:**
  Any type of identification terminal with relay / OC outputs can be connected to the turnstiles for the purpose of identification of a passing person.

- **Anchoring bases:**
  For anchoring into interlocking paving or sandwich floor or uneven surfaces.

1) In course of LED diodes lifespan in lighting devices, slight changes in colour shade of individual LEDs may occur. This is a standard feature of LEDs and therefore cannot be considered a defect.

6.2. Software

- **TCONF**
  application for adjusting the parameters of the turnstile's MLU control electronics – see manual: *Instructions for the TCONF application*

- **TMON**
  application for controlling and monitoring of the turnstile's activity via PC
  - see instructions: *Instructions for the TMON application*

- **REA::CONF**
  application for setting (configuring) of the turnstile's superior REA::RAP electronics – see manual: *Instructions for the REA::CONF application*

- **CardPay**
  application for the management and monitoring of the device in an ON-LINE mode – see manual: *Instructions for the CardPay application*

- **WAV Player Config**
  SW application for administration of sound files on the WAV Player memory card

7. INSTALLATION OF THE TURNSTILE

Turnstiles with glass wing or glass filling are supplied partially disassembled. Installation of the glass and the turnstile requires technical knowledge, knowledge of technological assembly procedure and skillfulness.

The turnstile can only be installed by a COMINFO a.s. service department employee or worker, who possess the certificate of installation schooling from the COMINFO Company.

Connection to the mains power supply may only be performed by an authorized person with the appropriate qualifications.

8. PUTTING THE TURNSTILE INTO OPERATION

The turnstile can be put into operation only by a COMINFO a.s. service department employee or worker, who possess the certificate of installation schooling from the COMINFO Company.

When putting the turnstile into operation, initialization of the turnstile takes place after each connection or loss of power supply. During the initialization, the turnstile wings slowly move to the stop ends in both directions and then stop in a closed position. It is forbidden to enter the turnstile corridor and manipulate the wings during initialization.

9. DESCRIPTION OF THE OPERATION

9.1. BEHAVIOR AFTER CONNECTING THE POWER SUPPLY

After connecting the supply voltage and switching on the main circuit breaker the device is started and the display shows an animation with the basic identification parameters of the device (see Figure 22):

- FW version
- physical address of the device
- own IP address

Figure 22: Information after the turnstile startup

After correct startup the device is ready for the entry and exit passages.

Every time the power supply is connected or lost the turnstile calibrates the path and the end position of the wings. During the calibration the turnstile wings slowly move to the stop end position in both directions and then stop in a closed position.

Then, during the standard operation of opening and closing the wings stop just before reaching the stop end positions.

To properly load the correct path of the wings there must not be any object or person present in the path of the wings during the calibration.

If there is any obstacle in the path of the wings, the wings will remain blocked by the obstacle and both drive units will be locked by the electromagnetic brake. The turnstile's electronics will generate an ERROR signal which is evaluated by the superior REA::RAP electronics. After loss and renewal of the power supply the turnstile attempts to close regardless of the obstacle. When planning the installation, it is necessary to take the use of a backup power supply into account.

The turnstile does not respond to control signals or signals from optical sensors during the calibration of the wing path.

The turnstile is ready to operate only after correct calibration.

The procedure in case of loss of the power supply:

In case of power loss or an emergency state the turnstile will automatically go to permanently unblocked mode. The wings of the turnstile can be opened by applying a relatively small force.

9.2. OPERATION MODES OF THE TURNSTILE

The EASYGATE-SPA device enables a two-way passage of persons through a corridor whereas in a default state the passage from the entry side is blocked and to unblock it is necessary to perform one of the following actions:

- insert a required amount of coins into the coin manager
- external access system (open through an external input)
- master card for a single or permanent opening
- button for external opening (open through an external input)

In a standard configuration the passage from the exit (leaving) side is automatically allowed. If the exit from the area is resolved in a different way, the function of free exit from the exit side can be deactivated in the configuration.

In terms of the behavior of the device, several possible situations can be defined, their description is in following subchapters:

- Passage from the entry side
- Passage from the exit side
- Collision statuses
- Using the V.I.P. card
- Using the card for Open mode
- Using the card for Blocked mode

9.2.1. Passage from the entry side

Initial conditions:

Person who wants to pass through the turnstile is located in the *area in front of the turnstile* or at the *entry side*.

Nobody is at the *exit side*, the *area behind the turnstile* is not monitored.

Passage procedure:

1. Coins which can be inserted into the device are displayed (see Figure 23 and Figure 24). The coin manager standardly accepts coins with values of 1, 2, 5, 10, 20, 50 CZK and also 0,5 and 1 Euro. The screen displays a flat fee for a passage. If the coin manager has change to return, the device will return the difference between the payment and price for a passage. If the coin manager does not have enough coins to return, the display will show an informational message. This message can be customized in the settings. A default text is ***„Nevrací! - No cash-back!“***. In this state the coin manager does not accept coins for which there is no dedicated tube and therefore they will go straight to the coin box.

Figure 23: A prompt to insert CZK coins

Figure 24: A prompt to insert select EUR coins

2. If the total value of inserted coins is lower than the price for a passage and no more coins have been inserted for 10 seconds the inserted coins will be automatically returned.
3. If a person inserts larger amount than the exact value for a passage, they are prompted via an animation on the display (see Figure 25) to retrieve returned coins, the returned amount is shown on the display in a blue field.

Figure 25: A prompt to take returned coins

4. If a printer is part of the device and the text for the receipt is configured it is necessary to remove the receipt after printing (see Figure 26). The turnstile will open only after the receipt is removed.

Figure 26: Withdrawal of the discount coupon or the payment receipt

5. The wings of the turnstile are opened and the person is prompted (see Figure 27) to proceed with the passage.

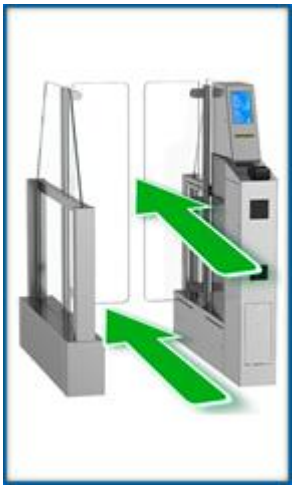


Figure 27: A prompt to initiate passage

6. After the passage is finished, the turnstile wings will close and the device is back in the default state.

9.2.2. Passage from the exit side

Initial conditions:

Person who wants to pass through the turnstile is located in the *area in behind the turnstile* or at the *exit side*.

Nobody is at the *entry side* (the *area in front of the turnstile* is not important) and nobody has started paying.

Passage procedure:

1. When the person enters the exit side the turnstile wings automatically open and the person can pass through the corridor. After the passage is finished, the turnstile wings will close and the device is back in the default state.

9.2.3. Collision status 1

Initial conditions:

A person is on the entry side and has not made a payment yet. A person who wants to pass entered the *exit side*.

Passage procedure:

The solution of this situation is for the person on the *entry side* to move to the area in front of the turnstile because they are blocking the device. Then the person on the exit side can proceed with passing. At the same time the person waiting in the area in front of the turnstile can proceed with the payment and then pass.

9.2.4. Collision status 2

Initial conditions:

A person on the *entry side* or in the *area in front of the turnstile* just successfully paid and the wings have opened from the entry side. However, another person stepped into the open wings from the *exit side*.

Passage procedure:

The person from the *exit side* will finish their passage but the turnstile wings will not close. The person who paid can proceed with their passage.

9.2.5. Collision status 3

Initial conditions:

A person is on the *exit side*, the turnstile wings just opened from the *exit side*. A person in the *area in front of the turnstile* just successfully paid.

Passage procedure:

The person from the *exit side* will finish their passage but the turnstile wings will not close. The person who paid can proceed with their passage.

9.2.6. V.I.P. card

In principle it is a *passage from the entry side* (chapter 9.2.1) which is not dependent on the payment of the required amount but putting the "*Single passage card*" on the internal RFID contactless card reader. It is located above the slot for the returned coins.

9.2.7. Card for permanently open mode

By using this card, you will activate/deactivate permanent opening of the turnstile (EMERGENCY mode). This mode can also be activated/deactivated using external safety switch which is located on defined and marked place, or by a command from connected TOUCH PANEL device (optional accessory). If the mode is active the turnstile wings are open and the turnstile can be freely passed through. In this mode the display shows an EMERGENCY state (see Figure 28).

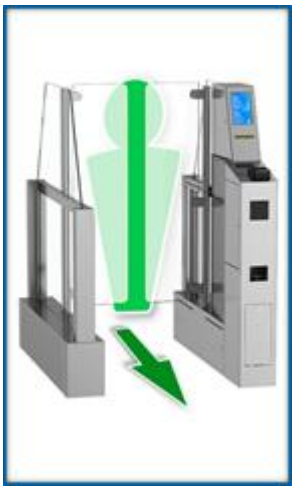


Figure 28: Signalization of an EMERGENCY state

9.2.8. Card for Blocked mode

This mode is activated/deactivated by using the "*Blocked mode card*". While active, the entry side of the turnstile is blocked and the exit side of the turnstile can still be freely passed through. (see Figure 29).

Figure 29: A permanent block state

9.3. EMERGENCY STATES

As emergency states are considered:

- Forced opening
- Attempt for entry side passage of two persons in a row

When an emergency state occurs, the display shows an animation alerting to forbidden manipulation with the device for a preset time period (usually 2 seconds). At the same time, the acoustic signal is activated which can call the operator. After the specified time passes, the device will return to the default state.

Figure 30: Alarm

9.3.1. Forced opening

A person is applying force on the turnstile wings, the brake system immediately activates and the wings are blocked.

9.3.2. Entry side passage of two persons in a row

First person pays and starts passing when the turnstile wings open. At the same time a second person closely follows the first person and tries to pass illegally.

9.4. MANAGEMENT OF THE TAKINGS, COIN MANAGER

9.4.1. Basic description of the coin manager

The EASYGATE-SPA device uses the CF 7000 - MEI CashFlow CF7900 coin manager. The coin manager is equipped with a technology without optical sensors which eliminates the negative impact of dirt on the coin reception. It is also equipped with a sonar to determine the number of coins in each tube. If the tubes contain insufficient number of coins, this information is sent to the control electronics. Connection to the control electronics is realized through the MDB interface. The coin manager uses a 24VDC power supply. The coin manager is installed in the device in a way that allows convenient maintenance.

Figure 31: Coin manager CF7900

9.4.2. Coin dispenser

Generally, the CF9700 coin manager can either accept only Czech koruna (CZK) or only Euro coins (EUR) or Czech koruna and Euro coins at the same time. The coin manager must be properly set for individual configurations. The coin dispenser in the coin manager contains 5 tubes and therefore only 5 coin types can fall into these tubes, other types fall directly into the coin box. When set to accept Czech koruna (or even when accepting both Czech koruna and Euro coins), each individual unfilled tube will store coins valued 1, 2, 5, 10 and 20 CZK. The coin manager will accept coins with values of 50 CZK, 0.50 EUR and 1 EUR but they will fall directly into the coin box. When set to accept only Euro coins, each individual unfilled tube will store coins valued 0.10, 0.20, 0.50, 1 and 2 EUR. Before putting into operation, the coin manager tubes should be filled to allow returns of change.

9.4.3. Control, management of the takings and finished passages

The device allows to manage takings, perform balance closing and control finished passages through the so called "*Balance closing cards*". In an OFF-LINE mode it is possible only to show the takings and closing balance on the display, eventually print them out using the printer. In an ON-LINE mode the balance closings are advanced to the superior CardPay system.

All the information are shown on the display. The upper section of the display shows the previous closing balance, the middle section shows the current balance and the bottom section shows additional information which are not part of the closing balance. The text of individual items is either white, yellow or red dependent on the state and performed operation.

Meaning of individual items:

- **Since** Beginning of the accounting period
- **Till** End of the accounting period

- **Number of passages** Total number of passages per accounting period
- **Passages - cash** Number of passages paid with cash per accounting period
- **Passages - payment card** Number of passages paid with payment card per accounting period
- **Passages - RFID** Number of passages with the VIP RFID cards per accounting period
- **Passages - barcode** Number of passages with a barcode per accounting period
- **Passages - external** Number of passages with external opening per accounting period
- **Takings – coin box** Cash in the coin box
- **Takings – other currency** Foreign currency cash in the coin box
- **Takings – overpayment** Current overpayment
- **State – coin tubes** Cash in the tubes
- **Deposit – coin tubes** State of the tubes at the beginning of the accounting period
- **Coins in coin box** Used coin box capacity
- **Cards in list** Number of V.I.P. cards on the list
- **Tubes** Number of coins in each tube

9.4.4. Initial deposit, zeroing of the deposit, refilling of the coins

The coin manager should contain at least 12 coins in each tube to ensure change can be returned in case of overpayment. It is therefore suitable to initially fill the dispenser (tubes) of the coin manager with the so-called initial deposit. For correct closing balance however, the coins must be inserted through the coin slot and not directly into the tubes! Before the first initialization and inserting first coins into the deposit, the coin manager (its tubes) must be empty and all counters must be set to zero.

The procedure for setting the "*Deposit – coin tubes*" counter to zero is as follows:

1. After removing the coin box, the display will show current takings information.
2. By using the "Balance closing card" the account balance closing is performed which resets all the items except the "*State - coin tubes*" and "*Deposit - coin tubes*".
3. By using the "Balance closing card" again, the items "*State - coin tubes*" and "*Deposit - coin tubes*" are deleted (set to zero).
4. The number of coins in individual tubes (bottom line) is now shown in red which means that the coin manager does not have enough coins in the tubes to return any change.
5. After inserting the coin box into the device, it is set into the default state.

The upper section of the display then shows the previous closing balance (yellow text), the middle section shows the current balance with reset counters (red text, see Figure 32) and the bottom section shows additional information with a zero state in the tubes (red text).

It is necessary to perform the identical procedure (zeroing of the deposit) every time the coins are emptied from the tubes.

Every time the coins are inserted when the coin box is removed, their value is added to the current deposit.

Since	8.12.2017
Till	15.12.2017
Number of passages	1130
Passages - cash	1000
Passages - card	100
Passages - RFID	10
Passages - barcode	10
Passages - external	10
Takings - coin box	451EUR
Takings - other currency	0EUR
Takings - overpayment	1EUR
State - coin tubes	100EUR
Deposit - coin tubes	50EUR
Since	15.12.2017
Till	15.12.2017
Number of passages	0
Passages - cash	0
Passages - card	0
Passages - RFID	0
Passages - barcode	0
Passages - external	0
Takings - coin box	0EUR
Takings - other currency	0EUR
Takings - overpayment	0EUR
State - coin tubes	0EUR
Deposit - coin tubes	0EUR
Coins in coin box	0/1500
Cards in list	1/150
Tubes	0/0/0/0

Figure 32: A display of closing balance items and takings after a deposit has been deleted

The COMINFO a.s. company is not responsible for changes in the weight and shape of coins, this is not covered by the warranty. The warranty does not cover usage of damaged coins or problems with detection of coins with different properties and parameters.

9.4.5. Display of the current takings status

The current takings status can be shown on the display by performing one of two tasks:

- removing the coin box
- using the Balance closing master card

The upper section of the display shows the previous closing balance (white text) and the middle section shows the current balance (yellow text, see Figure 33). The bottom section shows additional information which are not part of the closing balance.

Since	8.12.2017
Till	15.12.2017
Number of passages	1130
Passages - cash	1000
Passages – payment card	100
Passages - RFID	10
Passages - barcode	10
Passages - external	10
Takings - coin box	451EUR
Takings - other currency	0EUR
Takings - overpayment	1EUR
State - coin tubes	100EUR
Deposit - coin tubes	50EUR
Since	15.12.2017
Till	15.12.2017
Number of passages	0
Passages - cash	0
Passages – payment card	0
Passages - RFID	0
Passages - barcode	0
Passages - external	0
Takings - coin box	0EUR
Takings - other currency	0EUR
Takings - overpayment	0EUR
State - coin tubes	100EUR
Deposit - coin tubes	100EUR
Coins in coin box	0/1500
Cards in list	1/150
Tubes	25/50/25/25

Figure 33: Current takings

9.4.6. Closing balance

The balance closing will be executed upon using the Balance closing master card while the coin box is removed. The upper section of the display shows the current closing balance (yellow text, see Figure 34) and the middle section shows the current balance. All the counters of the current balance except "*State - coin tubes*" and "*Deposit - coin tubes*" are reset after the balance closing. Upon executing the balance closing the value of "*State - coin tubes*" is copied into the "*Deposit - coin tubes*". If a printer is part of the device the current closing balance is also printed out. If the device is in an ON-LINE mode the balance closing is sent to the superior CardPay system. If the device is in and OFF-LINE mode and without a printer, it is recommended to take a photo of the closing balance with a personal mobile phone. Then it is possible to return (insert) the coin box back to original position.

The following equation is used to calculate the closing balance:

Cash payments * Price = Takings + Coin tube state – Deposit – Overpayment

The coin manager producer declares the accuracy of the coin processing of 0.2% or 1 out of 500 coins. This should be noted when checking the closing balance.

Since	8.12.2017
Till	15.12.2017
Number of passages	1130
Passages - cash	1000
Passages - card	100
Passages - RFID	10
Passages - barcode	10
Passages - external	10
Takings - coin box	451EUR
Takings - other currency	0EUR
Takings - overpayment	1EUR
State - coin tubes	100EUR
Deposit - coin tubes	50EUR
Since	15.12.2017
Till	15.12.2017
Number of passages	0
Passages - cash	0
Passages - card	0
Passages - RFID	0
Passages - barcode	0
Passages - external	0
Takings - coin box	0EUR
Takings - other currency cucuucurrebncyyment	0EUR
Takings - overpayment	0EUR
State - coin tubes	100EUR
Deposit - coin tubes	100EUR
Coins in coin box	0/1500
Cards in list	1/150
Tubes	25/50/25/25

Figure 34: Current closing balance

10. MAINTENANCE

10.1. MAINTENANCE OF THE TURNSTILE SURFACE

- In terms of comfort and perfect look, it is necessary to maintain general cleanliness of the whole device with cleaning agents intended for this purpose.
- It is necessary to treat the glass parts of the turnstile with general window cleaning products.
- Stainless surfaces should be treated with cleaning agents intended for this purpose. These products are recommended by the manufacturer:
    - RAPELLE - GLASS & STAINLESS-STEEL SEAL & PROTECT
    - KIM-TEC – EDELSTAHLREINIGERSPRAY (850001)
    - WÜRTH – EDELSTAHLPFLEGESPRAY (0893121)
    - WÜRTH – EDELSTAHLREINIGUNGSTUCH (089312130)
- The apertures of the optical sensors must be regularly cleaned with detergents intended for acrylic sheets. When using different products, there is a danger of scratching. The manufacturer recommends foam cleaning sprays for motorcycle helmet visors such as:
    - SHELL ADVANCE MOTORCYCLE HELMET & VISOR CLEANER SPRAY AEROSOL

No solvents, lyes and caustics must be used to clean any dirt.
The turnstile must not come into contact with detergents containing chlorine.

The turnstile cannot be cleaned with pressure cleaners (pressure water)

10.2. PROPHYLACTIC CHECK

It is necessary to perform a prophylactic check of the turnstile at least twice a year to maintain the warranty, it consists of following procedures:

- Complete diagnostics of all electronic systems
- Inspection of the wiring and connection of all devices
- Inspection and tightening of all bolted connections
- Inspection and adjustment of the drive mechanisms
- Cleaning, eventually replacement of the brake
- Tensioning eventually replacement of the toothed belt
- Cleaning the interior of the turnstile
- Testing all the turnstile functions

EasyGate SPA - Prophylactic check	Required interval
Complete prophylactic check - carried out by Cominfo a.s. service department employees or workers, who possess the certificate of schooling from the COMINFO Company.	1x every 6 months
Regular cleaning of the coin manager, carried out by a person trained by Cominfo employee, according to this manual.	1x per month (or more - depending on frequency of use)

Prophylactic check can only be done by a COMINFO service department employee or worker, who possess the certificate of installation schooling from the COMINFO Company.

10.3. CLEANING AND MAINTENANCE OF THE COIN MANAGER

Dirt is a major cause of malfunctioning and therefore cleaning is a prominent aspect of maintenance. **Depending on the frequency of use, regular cleaning is recommended according to the table in chapter 10.2.** In addition to the coin manager itself, it is also necessary to clean the *coin paths*, *dispenser arms* and *guides* etc. It is recommended to use a damp cloth, cotton buds or soft brush with a foam cleaner (eg. MULTIFOAM 77- 400ml or similar).

DISCONNECT THE DEVICE FROM THE POWER SUPPLY BEFORE YOU START!

DO NOT USE SOLVENTS AND ABRASIVES!

Cleaning the Acceptor module

The acceptor module on the CF7000 combines the coin path, accept gate, routing gates and reject path. All these areas can be cleaned at the same time.

Coin paths

- To open the acceptor module grab it by the left-hand side and lift it upwards and to the right.
- Note: The acceptor lid does not remain open and may trap fingers if released therefore hold it for the whole time.
- Clean and dry all the accessible areas (see Figure 35).
- Do not scratch or damage the coin path as this could lead to poor acceptance of coins.

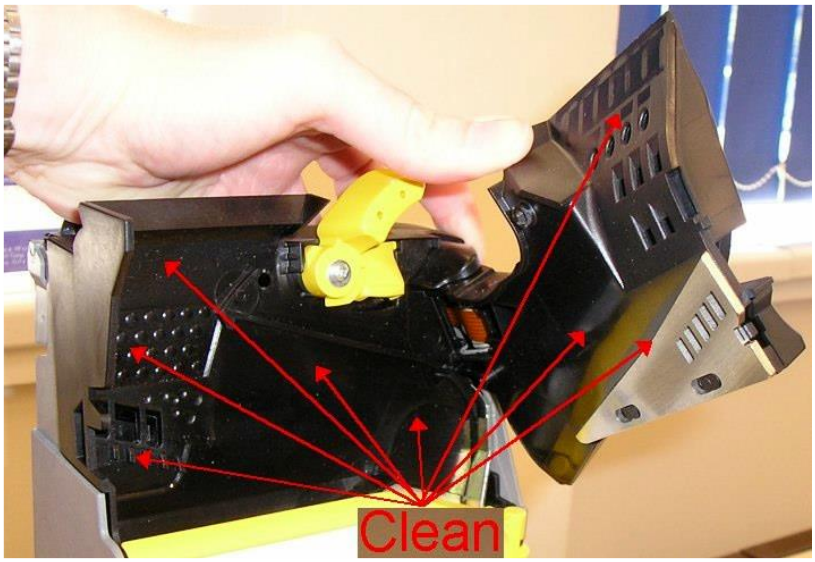


Figure 35: Cleaning of the coin path

- Ensure the lid is properly closed after you finish cleaning.

Accept gate and routing gates

- Open the module with control panel by releasing the clip on the left side and open it by swinging to the right.
- Clean and dry all the accessible areas shown on the Figure 36.
- You will need to manually press the solenoid of the accept gate. This will get you access behind it. A cotton bud may be used to access some areas.

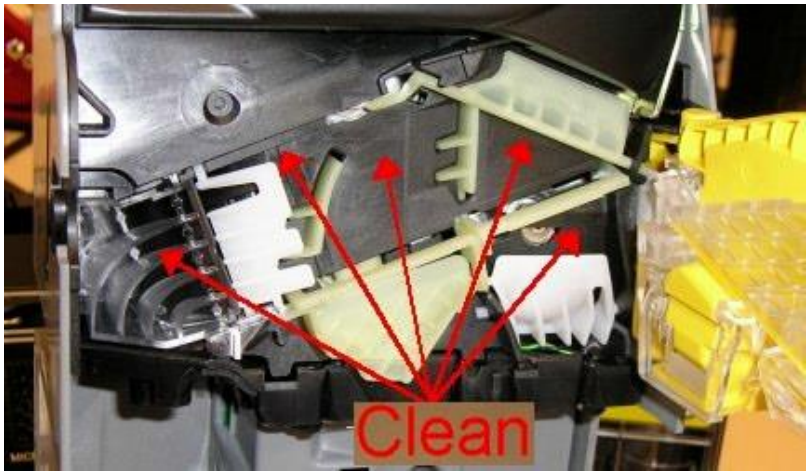


Figure 36: Cleaning the accept gates

- Remove the E tube route cover by releasing the clip and pulling forward. Clean both sides of the cover and the exposed part of the module (see Figure 37).

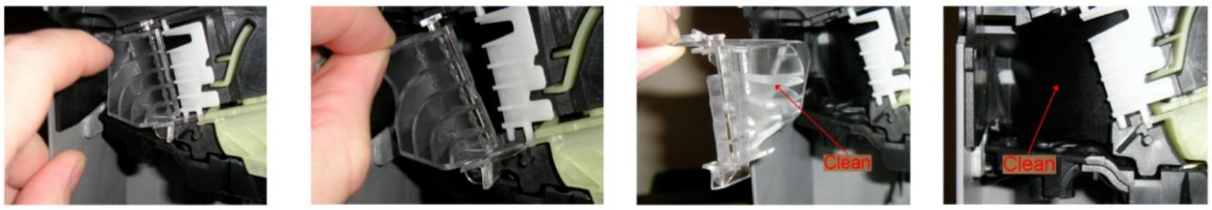


Figure 37: Cleaning of the routing gates

- Ensure the surfaces are clean and dry and return the cover. Ensure the route cover is correctly fitted and fully clipped.
- Ensure all gates move freely after cleaning.

Reject path

- Open the module with control panel by releasing the clip on the left side and open it by swinging to the right.
- Remove the reject slide away from module.
- Clean both sides of the reject slide and the back side of the control panel (see Figure 38). Then dry all the areas.

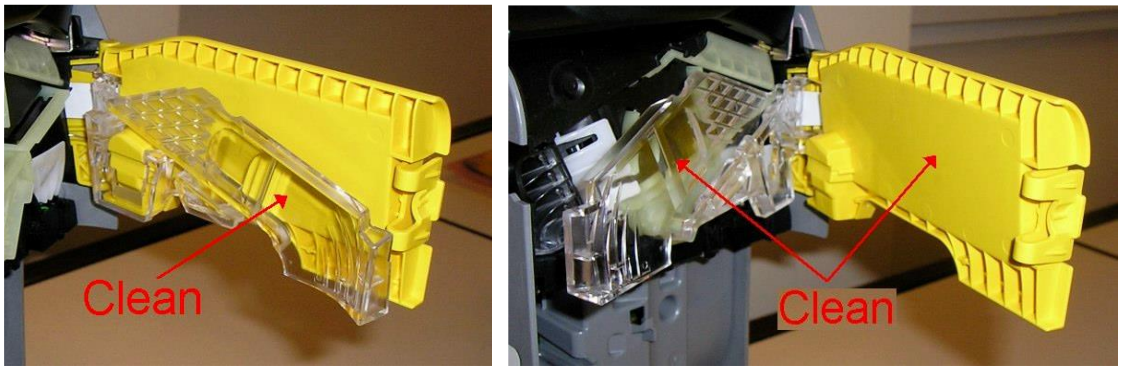


Figure 38: Cleaning of the reject path

- Ensure the reject slide is correctly put back in the place.

Dispenser Arms and Guides

- Remove the coin tube cassette.
- Without removing the dispenser from the CF7000, carefully clean the dispenser arms using a soft brush (see Figure 39).

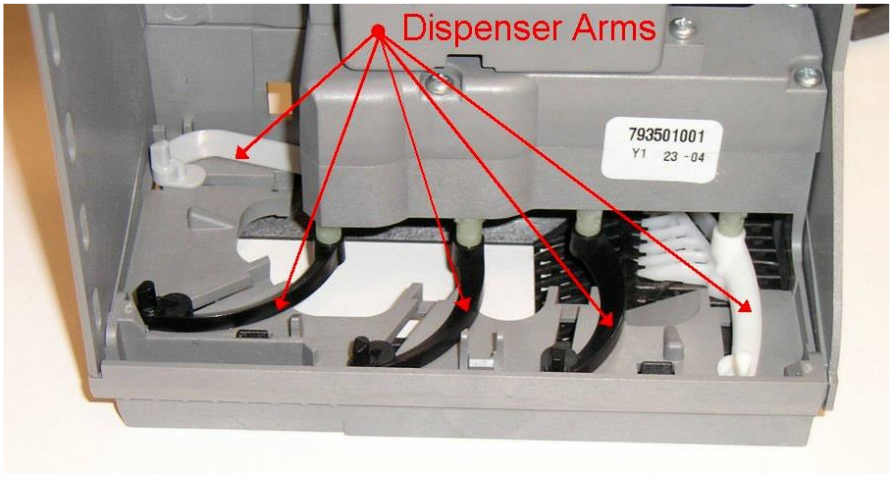


Figure 39: Cleaning of the dispenser arms

- Carefully rotate the dispenser arms (see Figure 40) and clean the dispenser guides.

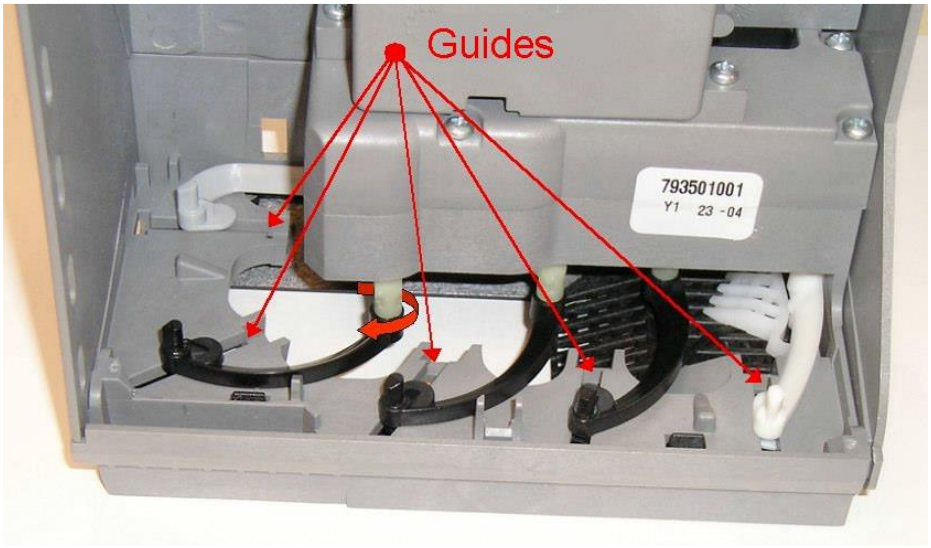


Figure 40: Cleaning of the guides

- If the dispenser is excessively dirty, replace the module.
- Switch on the power to the CF7000 and wait for the start-up sequence to be completed.
- Press the “Mode” button twice to park the dispenser arms in the default position.
- Replace the coin tube cassette.

10.4. CLEANING AND MAINTENANCE OF THE PRINTER

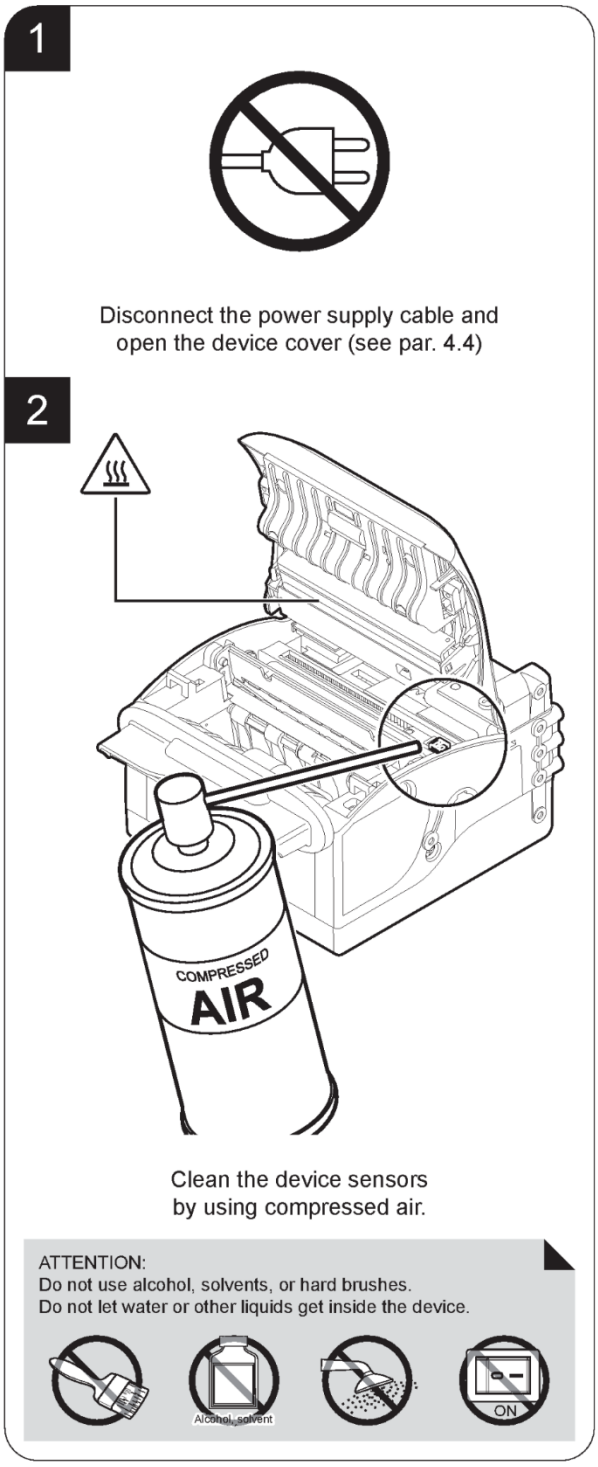
Regular cleaning of the device keeps the print quality and extends its life.

The following table shows the recommended planning for the cleaning operations:

Every paper change:	Cleaning method:
Printing head	Isopropyl alcohol
Rollers	Isopropyl alcohol
Every 5 paper changes:	Cleaning method:
Cutter	Compressed air
Cutter compartment	Compressed air or tweezers
Paper path	Compressed air or tweezers
Sensors	Compressed air
Every 6 months or as needed:	Cleaning method:
Printer case	Compressed air or a soft cloth

For periodic cleaning of the device, see the instructions below.

Sensors



Paper path

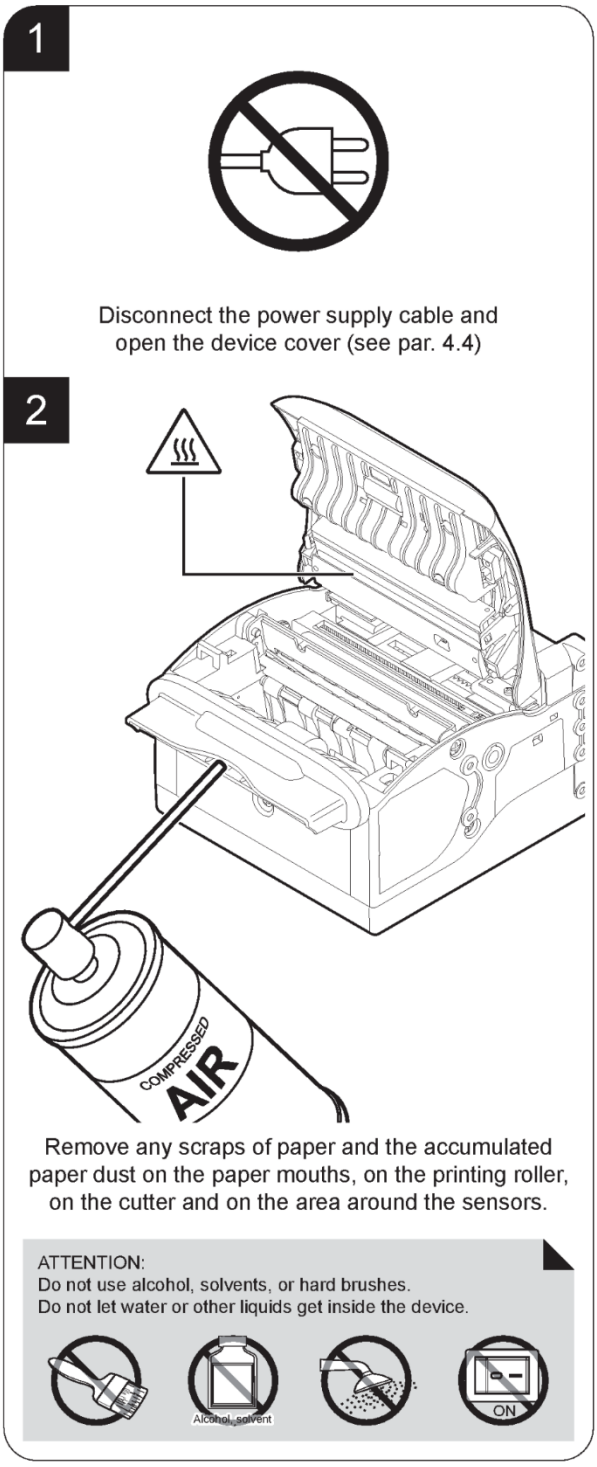


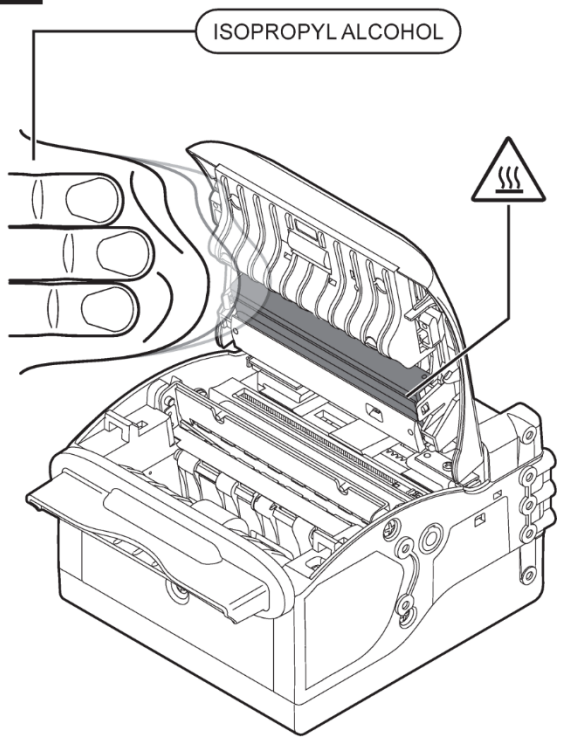
Figure 41: Cleaning of the sensors and paper path

Printing head

1

Disconnect the power supply cable and open the device cover (see par. 4.4)

2



Clean the printing head by using a non-abrasive cloth moistened with isopropyl

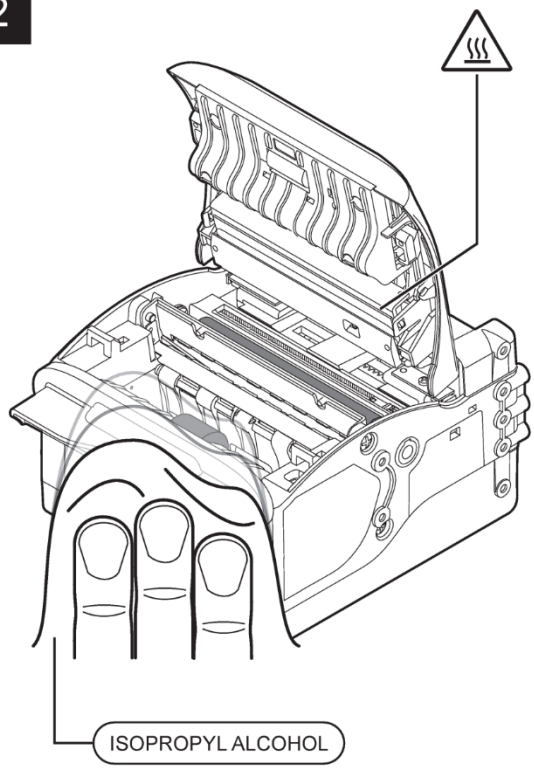
ATTENTION:
Do not use solvents, or hard brushes.
Do not let water or other liquids get inside the machine.

Rollers

1

Disconnect the power supply cable and open the frontal cover of the device (see par. 4.4)

2

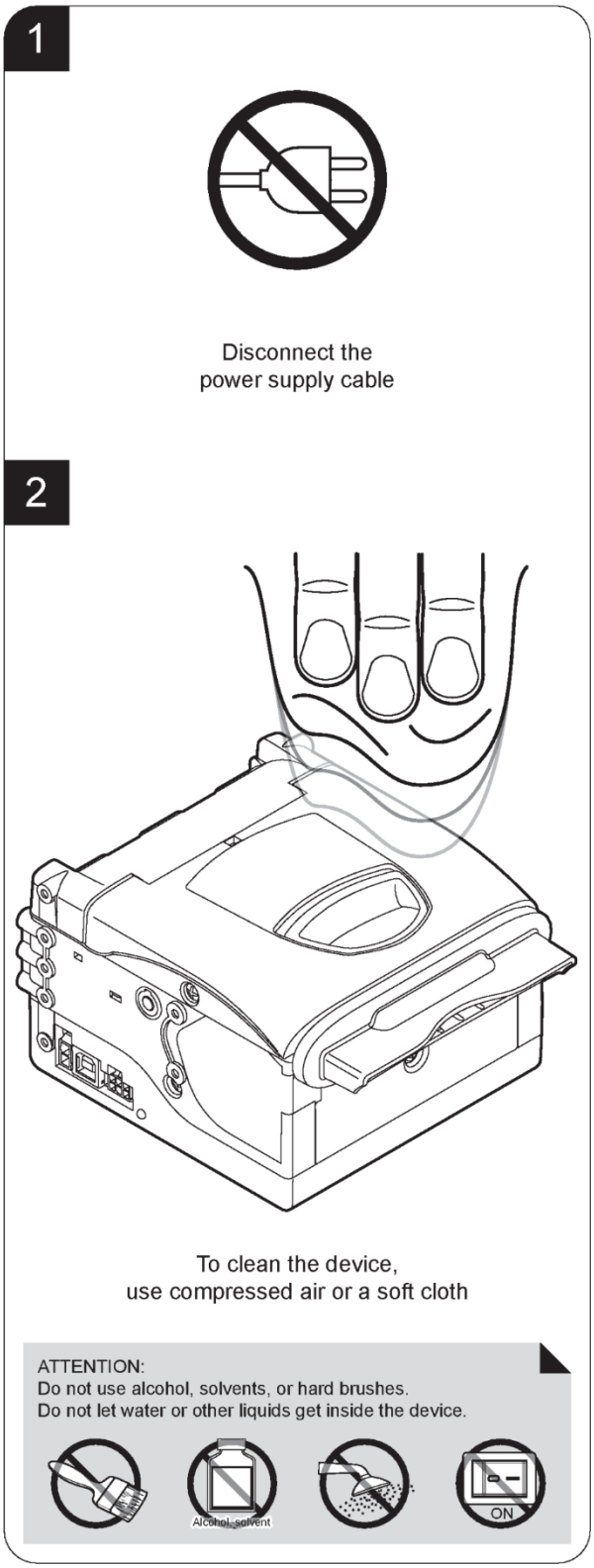


Clean the dragging roller and the ejector roller by using a non-abrasive cloth moistened with isopropyl.

ATTENTION:
Do not use solvents, or hard brushes.
Do not let water or other liquids get inside the machine.

Figure 42: Cleaning of the paper head and rollers

Printer case



Cutter

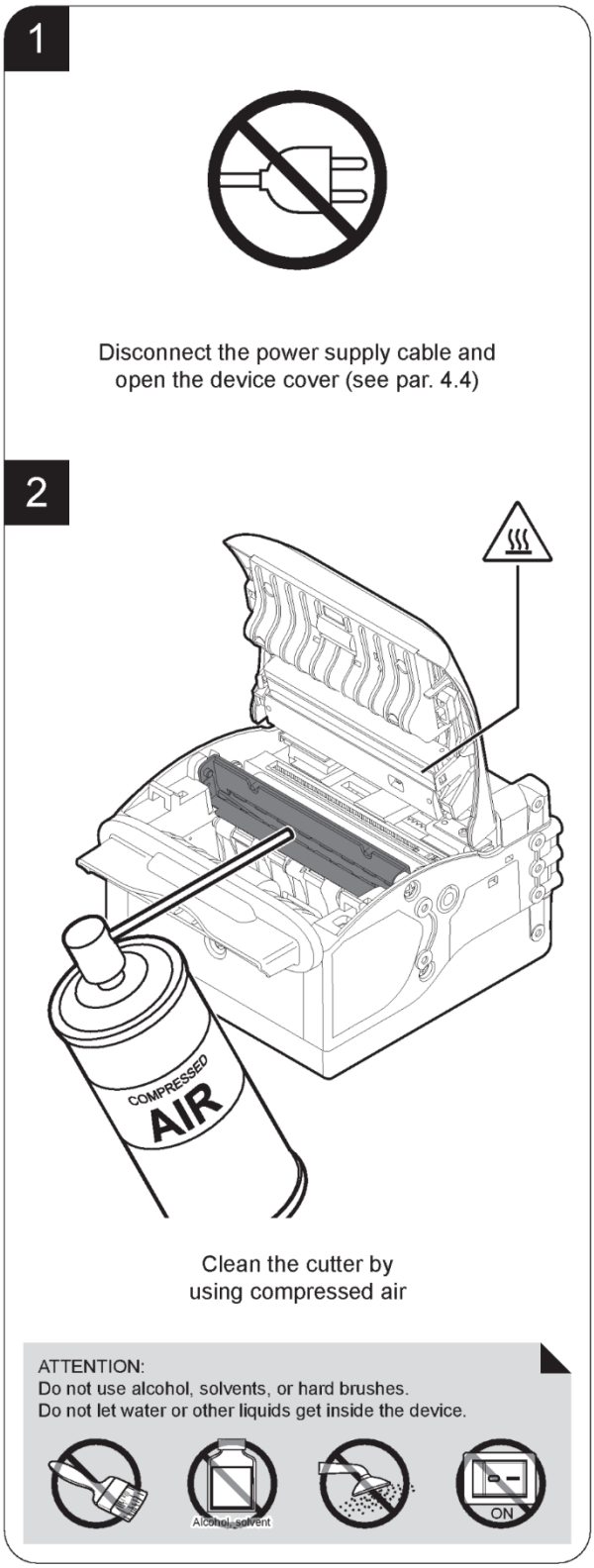


Figure 43: Cleaning of the printer case and cutter

Cutter compartment

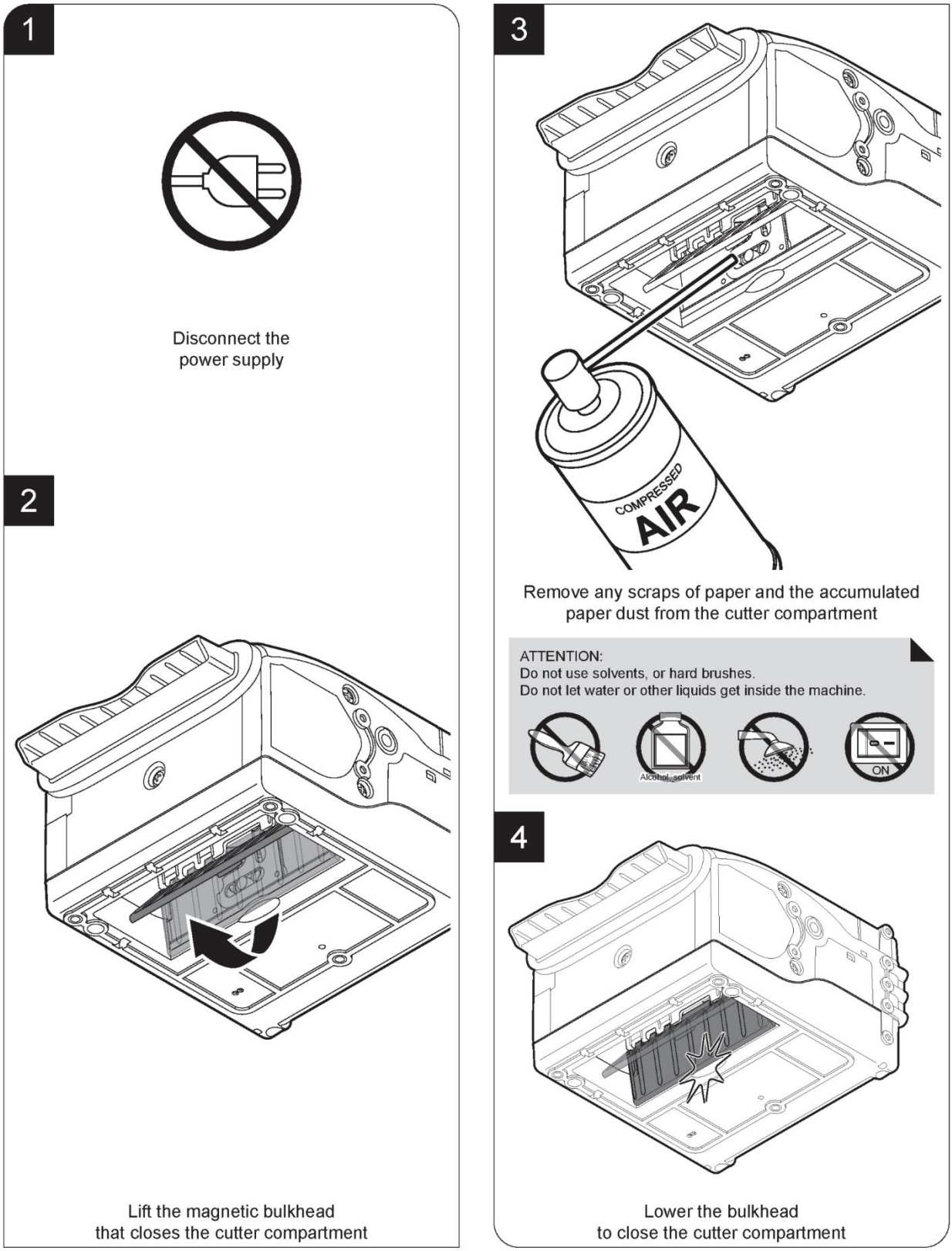


Figure 44: Cleaning of the cutter compartment

11. TROUBLESHOOTING

For quick removal of your turnstile's malfunction, it is necessary to fill out the *Claim Report Form* **when contacting the Service Department of the COMINFO Company. The report should indicate serial number of the turnstile in compliance with the production label, and a description of the malfunction. Along with the completed form, send a video which clearly shows the occurring malfunction. The** *CLAIM REPORT FORM* **can be found at the end of these Instructions.**

MALFUNCTION	POSSIBLE CAUSE	REMEDY	Solver (difficulty level)
Some of the turnstile wings do not finish to the end position and stop outside the home position.	Correct initialization was not completed	Reset the turnstile by turning the power supply off and on	**Customer**
Wings of the turnstile may be freely moved. Turnstile does not respond to control commands.	Turnstile without supply voltage.	Check the superior circuit breaker. In case of a turnstile with power supply of 24VDC or 230VAC, check also the circuit breaker located in the turnstile. Reset the turnstile by turning the circuit breaker off and on.	**Customer**
Wings of the turnstile are closed. Turnstile does not respond.	Malfunction of the superior identification system.	Contact the supplier of the superior system.	**Customer** / Supplier of the superior system
Wings of the turnstile are closed. Turnstile does not respond to control signals.	Control electronics error	Reset the turnstile by turning the power supply off and on.	**Customer**
Turnstile may be passed by several persons based on identification of one person.	Too long (>2s) control signal.	Shorten the signal to >=0.5s a <=1s	**Customer** / Supplier of the superior system
Turnstile remains open after a person passes through, or it closes with delay once a person passes through	Malfunction of optical sensors which monitor the turnstile passage	Clean the apertures, replace faulty sensors	**Customer** / COMINFO Service Department
Wings of the turnstile are opening and closing during passage, but it is possible to freely move a wing	Malfunction of the electronics or electromagnetic brake of drive	Inspection of the electronics, cables and connectors.	COMINFO Service Department
Only one wing correctly opens during passage and the other wing is braked	Mechanical malfunction of electromagnetic brake of the wing or the motor brake	Clean or replace the wing brake or replace the motor.	COMINFO Service Department
Only one wing correctly opens during passage, while the other wing can be freely moved	Malfunction of the drive unit	Inspection of the belt, cables and connectors. Replace the belt or the motor	COMINFO Service Department

The coin manager randomly rejects some coins. The coin manager display shows “Unknown coin” message upon rejection.	Dirty acceptor module of the coin manager.	Clean the coin paths of the coin manager. After cleaning it can take several hours or even days before the coin manager function returns to normal.	**Customer**
The coin manager randomly sends coins into wrong tubes.	Dirty routing gates of the coin manager.	Clean the routing gates.	**Customer**
The display shows message “Nevrací! No cash-back!“. The coin manager rejects most valuable coins. However, it accepts smaller coins.	The coin manager does not have enough change for returns.	It is necessary to refill change into the coin manager. Each tube should contain at least 10pcs of coins.	Customer
The display shows message „Nevrací! No cash-back!“ but the coin manager is full.	Mechanical malfunction on the tubes or dispenser arms.	Clean the dispenser arms and guides. Press the “Mode” button twice to park the dispenser arms in the default position. If this does not help it will be necessary to replace the coin manager.	**Customer** / COMINFO Service Department
The display permanently shows a blue screen with the sum of total takings.	The coin box is not fully inserted or the limit switch under the coin box is faulty.	Push the coin box all the way to the end position or repair malfunctioning limit switch.	Customer/COMINFO Service Department
Blank tickets coming out of the printer.	The paper is loaded upside down. Only one side of the paper is thermally sensitive.	Turn the paper by the other side.	**Customer**
No paper coming out of the printer. The display of the device shows a specific printer error code.	Mechanical malfunction of the printer. Usually, a small piece of paper is stuck in the printer.	Clean the printer. If this does not help it will be necessary to replace the printer.	**Customer** / COMINFO Service Department

In case of a persisting malfunction, it is necessary to fill out the *CLAIM REPORT FORM* and send it to the address of the manufacturer. For quick removal of your malfunction, please describe it thoroughly as per the following example.

EXAMPLE - CLAIM REPORT FORM

Product label information:

Name – type:	EASYGATE SPA

Serial number:	0	9	0	0	1	2	3	4	5	6

Information on the control electronics (MLU 5):

Serial number:	5	4	3	0	0	0	4	6	7

Your request:

Wings of the turnstile are opening and closing during passage, but it is possible to freely move them.
We checked the power supply voltage.
After turning off and on the supply voltage initialization of the turnstile takes place, but the malfunction persists.
We are guessing an electrical malfunction of the brake on both turnstile wings as per the previous table.
We are attaching a video of initialization a malfunction simulation.

Customer:	Company Ltd		
Address:	11 Business Park, London SW12 9RT, United Kingdom		
Contact person:	Jack Smith	Telephone:	4420 7777 7777
E-mail:	jack@company.com	Date:	31. 1. 2022

CLAIM REPORT FORM

Product label information:

Name – type:

Serial number:

Information on the control electronics (MLU 5):

Serial number:

Your request:

Customer:

Address:

Contact person:

Telephone:

E-mail:

Date:

12. PRODUCT LABEL LOCATION

The EG-SPA device has a two-wing passage which use two drive units and two brakes which are separately stored in the left and right side of the device (see Figure 2). Each side (case), drive unit and brake have their unique product label. The location of the product labels is apparent from the inner arrangement of the turnstile (see Figure 7 and Figure 8)

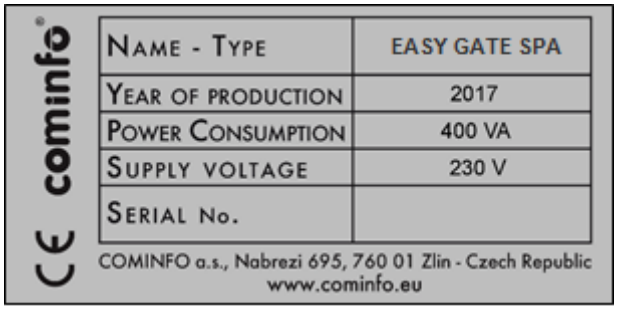


Figure 45: Product label

Access to the product labels:

1. After unlocking appropriate locks (see Figure 20), remove the right or left bottom inner side cover
2. Product labels are always located on the motor, brake and the vertical surface under the motors (see Figure 7 and Figure 8)

Access to the product label:

- insert the key into the two locks on the bottom side cover
- after releasing the locking mechanism push the lock area of the side cover into the turnstile
- turn the key
- slide the side cover from the turnstile. Pay extra attention when sliding out the covers to prevent damaging the surface finish of the surrounding covers.
- put the dismounted cover on a predetermined place

Reassemble the covers in reverse order. To prevent damaging the lock it is necessary to push the side cover into the turnstile when locking.

13. DEVICE DIPOSAL

Entrust the device disposal to an expert company in compliance with the legislation effective at the time of the device disposal. Materials that are subject to regulations on handling hazardous materials were also used in the course of construction of the device.

Brief list of used materials:

- Steel of the class 11,12,14,17
- light alloys
- safety toughened glass
- tin bronze, copper, silver, zinc, lead
- plastics PA, PE, PVC,
- surface finish by galvanization in alkaline bath, powder spraying with DRYLAC paints
- lubricating greases
- electric devices (motor drive unit and control electronics)

Electric devices (hereinafter referred to as "ED") also contain precious metals in low amounts. Production labels of EDs stated in this Instruction Manual contain, in accordance with the Act No. 185/2001 Coll. as amended, name of the producer and date of the ED launching. The producer (COMINFO a.s.) is registered in the list of manufacturers of electric devices kept by the Ministry of Environment via the Retela collective scheme where the user of any electric device may turn to dispose this electric device.

The turnstile is RoHS compliant. RoHS stands for Restriction of Hazardous Substances and affects the entire electronics industry as well as many electronic products.

14. PROHIBITED MANIPULATIONS

1. It is prohibited to anyhow interfere in the control electronics and self-perform a disassembly of the motor drive unit. These activities have to be entrusted exclusively to the technicians of the provider. All service reparations are performed within the warranty and post-warranty service exclusively by service technicians of the COMINFO a.s. company or workers, who possess the certificate of installation schooling from the COMINFO Company. In case of a breach of this condition in the course of the warranty period, the device operator loses the right for warranty service.

2. It is prohibited to use violence when manipulating the wings of the turnstile in their blocked position in an effort to enter the area with defined access rights.

3. It is prohibited to hang on the turnstile wings.

4. Device cannot be cleaned or treated with acids, lyes and other dangerous chemicals.

5. To ensure correct function of the IR sensors for passage detection it is prohibited to place stickers or cover the glass wings in the area of coverage of these sensors i.e. up to height of 900mm.

15. CERTIFICATIONS

The COMINFO a.s. company acquired a type certificate for the EASYGATE motor turnstiles from the TÜV SÜD Czech s.r.o. certifying authority.

COMINFO a.s. holds a management system certificate according to the ISO 9001:2000 certification.

It is possible to send CE –Declaration of Conformity on request.

The Declaration can be found also on the following link:
http://www.cominfo-trade.com/cz/produkty/certifikaty-a-pos/

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