

DRAFT

Installation Manual

VingCard Novel Mortise Lock

Retrofit Not Included

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Table of contents

FCC and ISED (IC) statements.....	4
FCC statements	4
ISED (IC) statements	5
Déclarations d'ISED (IC)	5
EN 14846 compliance.....	6
Certification.....	6
1. Introduction.....	7
1.1 Important precautions	8
1.2 Security best practices	8
2. Install lock.....	9
2.1 Parts included	9
2.2 Tools needed	10
2.3 Cut-outs	10
2.4 Perform installation	10
2.4.1 Insert/replace batteries	13
2.4.2 Remove configure hub key	14
2.4.3 Perform strike installation	15
2.4.4 Perform key cylinder installation	17
2.5 Lock power module/frame power module	20
2.5.1 Power supply/AC adapter	20
2.5.2 Power supply location	20
2.5.3 Cable between frame power module and power supply	21
2.5.4 Prepare wire ends from power supply to lock power module	21
2.5.5 Install frame power module	21
2.5.6 Connect frame power module to power cables	23
2.5.7 Install lock power module	24
2.6 Perform hardware check	25
2.7 Perform cleaning of locks	25
Appendix A: Lock configurations.....	26
With battery pack, for use without cylinder	27
With battery pack, for use with cylinder	28
With lock power module, for use without cylinder	29
With lock power module, for use with cylinder	30
Appendix B: Beveled doors.....	31
Appendix C: Regulations.....	32

FCC and ISSED (IC) statements

FCC statements

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

Exposure statement:

This portable device with its antenna complies with FCC RF exposure limits for general population/uncontrolled exposure. The antenna used for this device must not be co-located or operating in conjunction with any other antenna or transmitter. Use only the supplied antenna.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antennas or transmitters.

Labels:

The Reader and Communication Controller module, model RCC1601, must be labeled to say **FCC ID: Y7V-RCC1601C1**.

The concerned end product must be labeled to say **Contains FCC ID: Y7V-RCC1601C1**.

ISED (IC) statements

This device complies with Industry Canada licence-exempt RSS standard CAN ICES-3 (B)/NMB-3(B) B.

Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference that may cause undesired operation of the device.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

The radio transmitter **IC: 9514A-RCC1601C1** has been approved by Industry Canada to operate with the antenna type listed below with the indicated maximum permissible gain and required antenna impedance. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Name / Model	Gain	Impedance
Inverted F antenna	2.0 dBi	50 ohm

The term "IC" before the equipment certification number only signifies that the Industry Canada technical specifications were met.

The Reader and Communication Controller module, model RCC1601, must be labeled to say **IC: 9514A-RCC1601C1**.

The concerned end product must be labeled to say **Contains IC: 9514A-RCC1601C1**.

Déclarations d'ISED (IC)

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Conformément aux réglementations d'Industrie Canada, cet émetteur radio peut uniquement fonctionner à l'aide d'une antenne dont le type et le gain maximal (ou minimal) pour cet émetteur est approuvé par Industrie Canada. Pour réduire le risque d'interférence éventuelle pour les autres utilisateurs, le type et le gain de l'antenne doivent être choisis de manière à ce que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne soit pas supérieure à la puissance nécessaire à une bonne communication.

L'émetteur radio **IC: 9514A-RCC1601C1** a été approuvé par Industrie Canada pour une utilisation avec les types d'antenne indiqués ci-dessous avec le gain maximum autorisé indiqué et l'impédance d'antenne requise. Il est strictement interdit d'utiliser avec cet appareil un type d'antenne ne figurant pas dans cette liste ou ayant un gain supérieur au gain maximum indiqué pour ce type.

Appellation/Modèle	Gain	Impédance
Antenne F inversée	2.0 dBi	50 ohm

Le terme "IC" devant le numéro de certification signifie seulement que les spécifications techniques Industrie Canada ont été respectées.

Le module *Modèle RCC1601* doit porter une étiquette avec la mention: **IC: 9514A-RCC1601C1**.

Le produit final concerné doit porter une étiquette avec la mention: **Contient IC: 9514A-RCC1601C1**.

EN 14846 compliance

The safety features of this product are essential to its compliance with EN 14846. No modification of any kind, other than those described in these instructions, is permitted.

All components specified for the installation shall be fitted in order to ensure compliance with this European Standard.

Certification

VingCard Novel mortise lock is certified under the name *VingCard Novel VC 100*.

1. Introduction

VingCard Novel mortise lock e.g. has the below features:

- Installation can be done indoors as well as outdoors.
- VingCard Novel is a mortise lock case without handing, i.e. left doors and right doors use the same lock case.
- There is one automatic locking bolt, so locking will take place as soon as the door is in the frame.
- Batteries and electronics are located inside the lock case.
- If desired, a *lock power module* and *frame power module* can be used instead of batteries.
- User feedback is given by light.
- A standard USB-C connector is used as service connector for firmware upgrade, event readout and power/emergency opening. No special adapter is required and a standard USB power bank is used as emergency power.

Note: For carefree operation, we strongly recommend automatic door closer.

Note: Retrofit installation is described in a separate document; *Installation manual VingCard Novel mortise lock Retrofit installation* *.

Note: Commissioning, maintenance and LED signals are described in *Commissioning and maintenance guide VingCard Novel* *.



Figure 1: VingCard Novel



Figure 2: Thumbturn for the privacy option



Figure 3: Optional mechanical cylinder for emergency opening

*) Log in to the service portal <https://my.assaabloyglobalsolutions.com>; the document is found in knowledge base 'Software and Manuals' for ASSA ABLOY Global Solutions employees, category *Locks* > *Novel mortise lock* > *Manuals*.

1.1 Important precautions

- The lock case contains several moving parts and mechanisms. To avoid malfunction it is of great importance that no dust, door material residue, oil or other contamination makes its way into the lock case body. Failure to follow this advice may lead to loss of warranty.
- All parts that need lubrication are already lubricated by ASSA ABLOY Global Solutions, so there is no need for any further lubrication.
Caution: The use of lubricants containing solvents or graphite will void the lock warranty.
- If any seals or weatherstrips are fitted to the complete door assembly, make sure that they do not inhibit the correct operations of the electrical operated lock or striking plate.

1.2 Security best practices

- Always have the latest software and firmware installed to benefit from the latest functionality updates and security enhancements.
- Ensure to have the correct time programmed in all locks, for lock logs to be accurate.
- Make sure to use standards and cybersecurity frameworks such as NIST (*National Institute of Standards and Technology*) to get detailed security recommendations.
- Make sure to use known secure RFID card technology (see our recommendation about [RFID Credential Security Pyramid](#)).
- Beware of any suspicious activity, such as signs of tampering with doors or locks.
- Ensure that all service personnel are authenticated from an authorized partner.
- Extra security such as CCTV, elevator access control, and one-way fire doors will increase general hotel security and make it harder for criminals to operate.
- We provide security information and advisories for our products and services at [Hospitality Product Security Center](#). In case of any vulnerabilities impacting our products or services, we publish advisories in accordance with our responsible disclosure policy.

2. Install lock

2.1 Parts included

Figure 4 below shows the parts included for an installation with batteries. See details about article numbers, available widths of outside front etc in [Appendix A](#). The appendix also contains information about parts for installations with lock power module and frame power module. If the option key cylinder is applicable, note that the cylinder parts are not included in the kits shown in the appendix but are purchased separately. See [section 2.4.4](#) for cylinder parts.

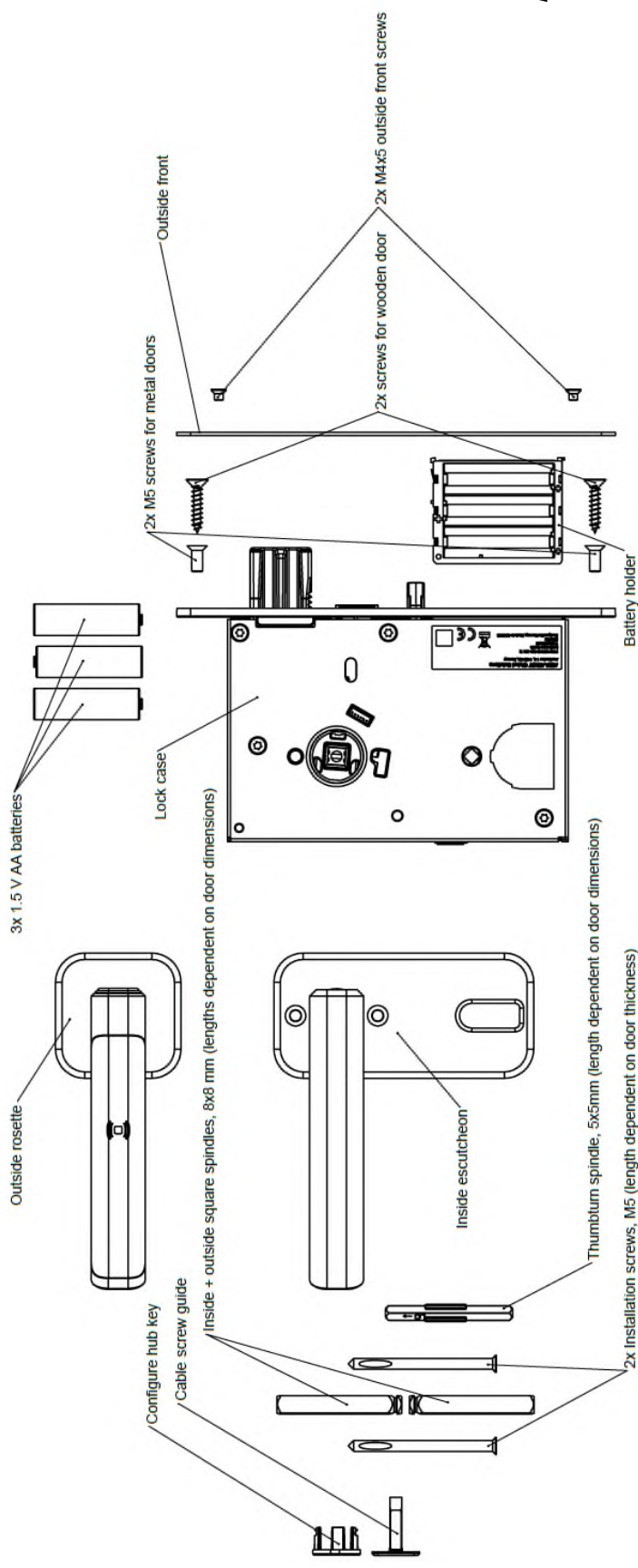


Figure 4

2.2 Tools needed

- Small flat screwdriver
- Torx T20S
- If necessary (need may vary due to resistance): use a screwdriver handle or rubber mallet to hit the *configure hub* key and make sure that it clicks into place
- If reconfiguration of key cylinder from left to right or vice versa is needed: Phillips PH1 screwdriver

2.3 Cut-outs

Log in to the service portal <https://my.assaabloyglobalsolutions.com> and then click the respective link below (links available for ASSA ABLOY Global Solutions employees).

Description	Document number	Description	Document number	Note: Each cut-out drawing also contains information about which strike kits that are available for the installation scenario shown in the drawing. Strike cut-outs are found in drawing D001354938-001 .
New installation w/o cylinder	D001353984-001	New installation w/ cylinder	D001353984-101	

Table 1

2.4 Perform installation

Important notes:

- Before installing the lock, verify that the door is suitable for installation of *VingCard Novel mortise lock*.
- If key cylinder is applicable, it must be installed before the lock case is mounted in the door and before the battery holder is installed.
- The handle must be connected to the lock case before the lock is powered on. The battery holder including batteries must therefore be the last part to install before mounting the outside front. When the battery holder including batteries is mounted properly in the lock case and the communication between handle and lock case works, a beep is heard and three green LED blinks are shown.
- Before starting the installation, make sure that there are no remaining burrs/dust/wood pieces etc inside the cut-out.
- This section 2.4 describes installation with batteries, but if desired a *lock power module* and a *frame power module* can be used instead of batteries; see [section 2.5](#) including subsections. Note that all other installation steps are the same for an installation with lock power module/frame power module as for an installation with batteries.
- For beveled doors, see [Appendix B](#).

See installation steps in Figures 5 and 6 on the following pages. For installation of standard strike or slim strike, see [section 2.4.3](#) including subsections. Installation of frame power module is described in [section 2.5.5](#). For installation of key cylinder, see [section 2.4.4](#).

Note: Once the battery holder with batteries has been mounted (see details in [section 2.4.1](#)), make sure that a beep is heard and that the main LED (see [Figure 1](#)) blinks green three times. This indicates that the communication between handle and lock case works. If there is instead a beep and a red blink, the communication does not work and the batteries must be replaced.

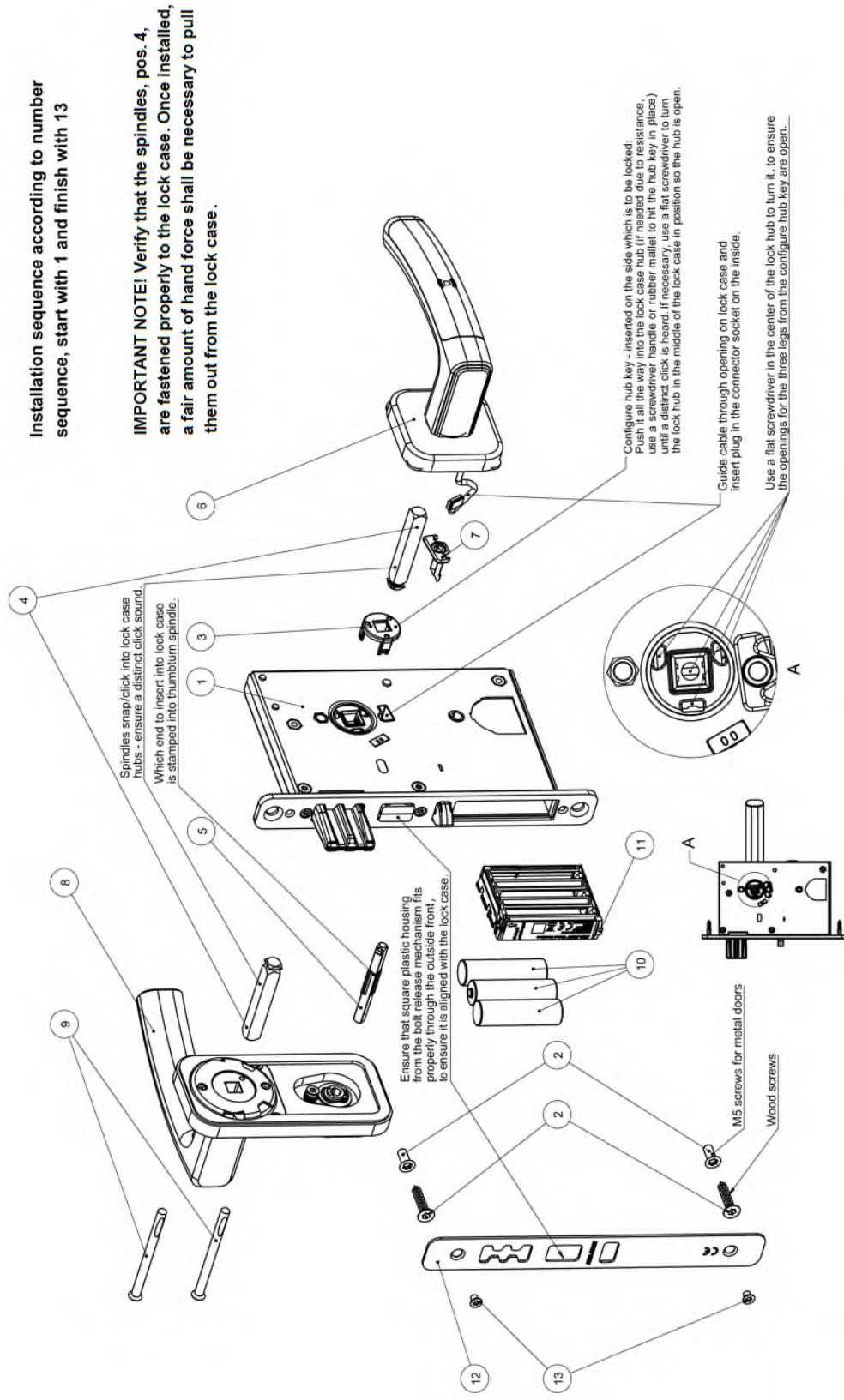
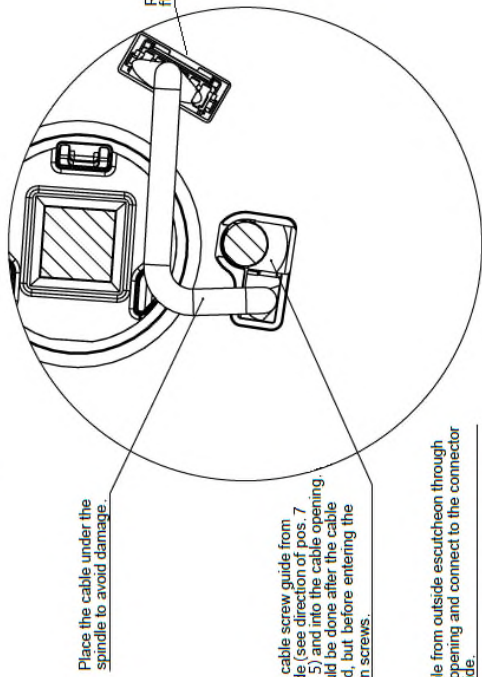
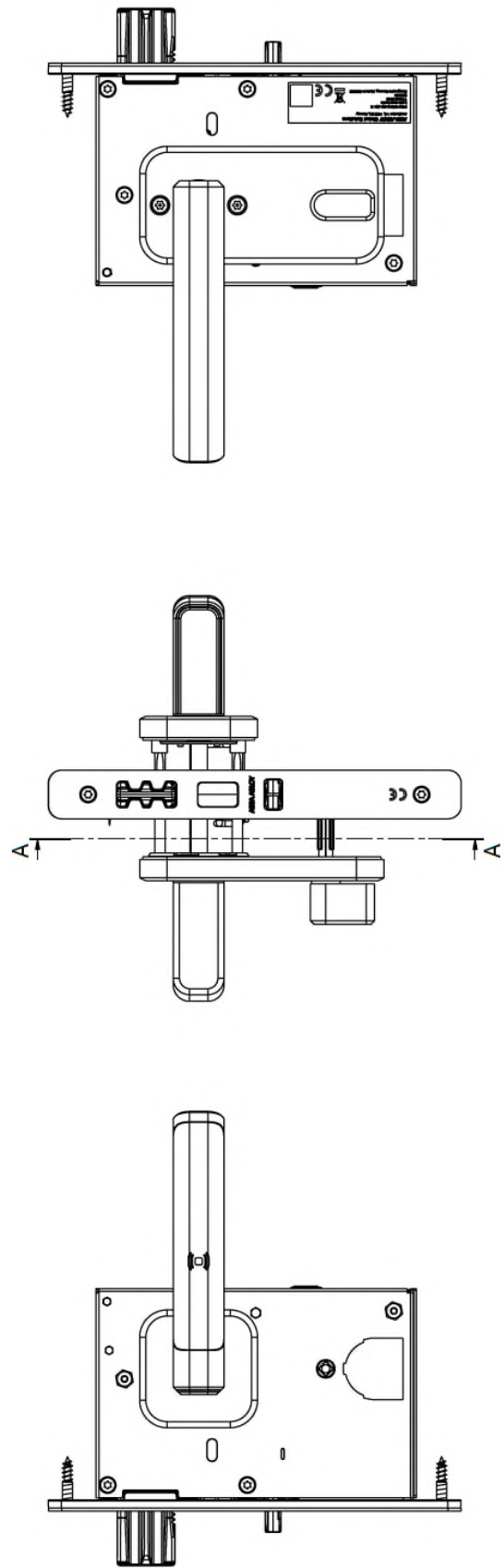


Figure 5



Place the cable under the spindle to avoid damage.

Insert the cable screw guide from the outside (see direction of arrows in Figure 5) and into the cable opening. This should be done after the cable is installed, but before entering the installation screws.

Guide cable from outside escutcheon through the cable opening and connect to the connector on the inside.

Remove seal plug from CT connector, using a small flat pliers in the two grab openings (see photo for seal).



Figure 6

2.4.1 Insert/replace batteries

Tools needed:

- Torx T20 screwdriver
- Flat screwdriver

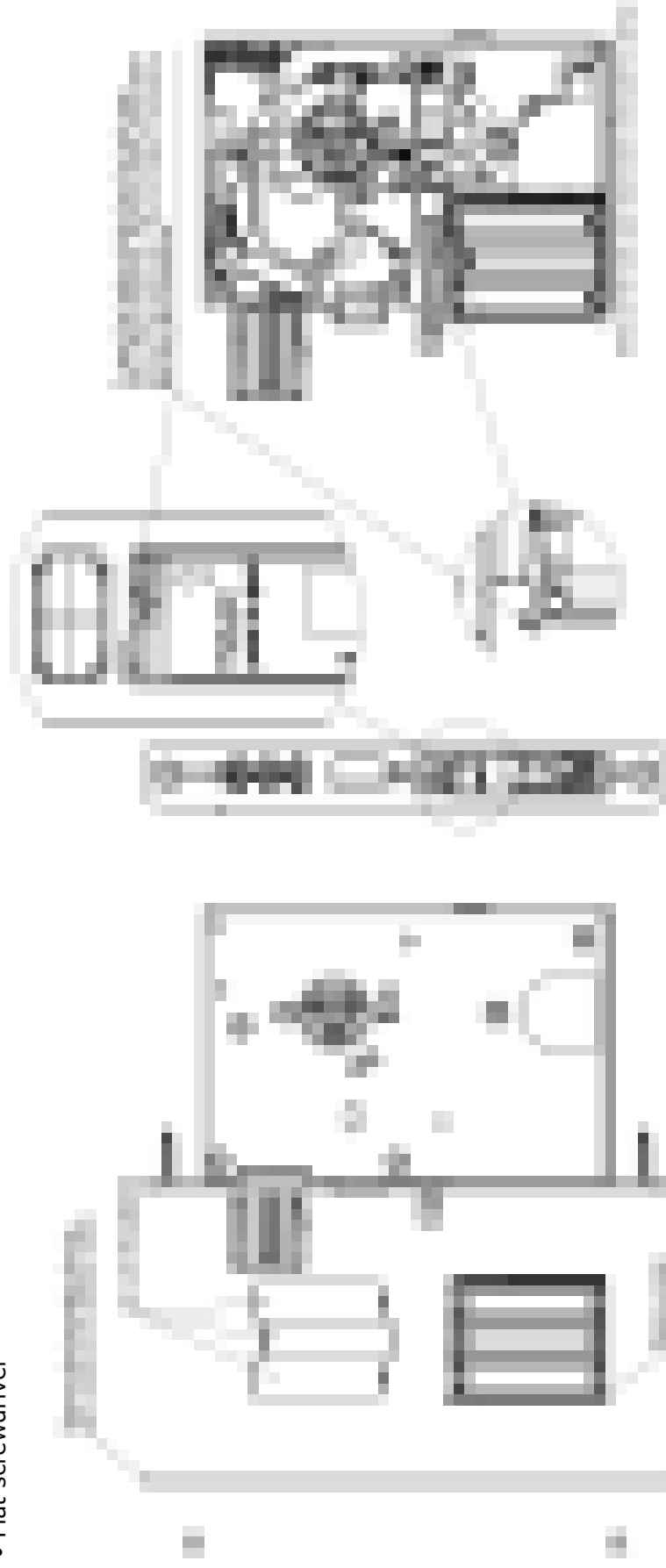


Figure 7

Important notes:

- After the battery insertion/replacement, the lock will beep one time and the main LED (see [Figure 1](#)) will blink green three times. This indicates that the communication between handle and lock case works.
- When the battery holder has been mounted back with fresh batteries, the time in the lock should be set (normally done during commissioning*).

*) See *Commissioning and maintenance guide VingCard Novel* for details; log in to the service portal <https://my.assaabloyglobalsolutions.com> and click [this link](#) (for ASSA ABLOY Global Solutions employees).

2.4.2 Remove configure hub key

If necessary, the *configure hub key* can be removed by means of a small flat screwdriver in the opening for the middle leg, on the backside; see below.

1. Stick the flat screwdriver into the opening.
2. Push/twist the locking clips with the flat head in the direction of the red arrow, while pushing the leg out. If necessary, use another small flat screwdriver as a jack under the *configure hub key* on the outside when it partly opens.

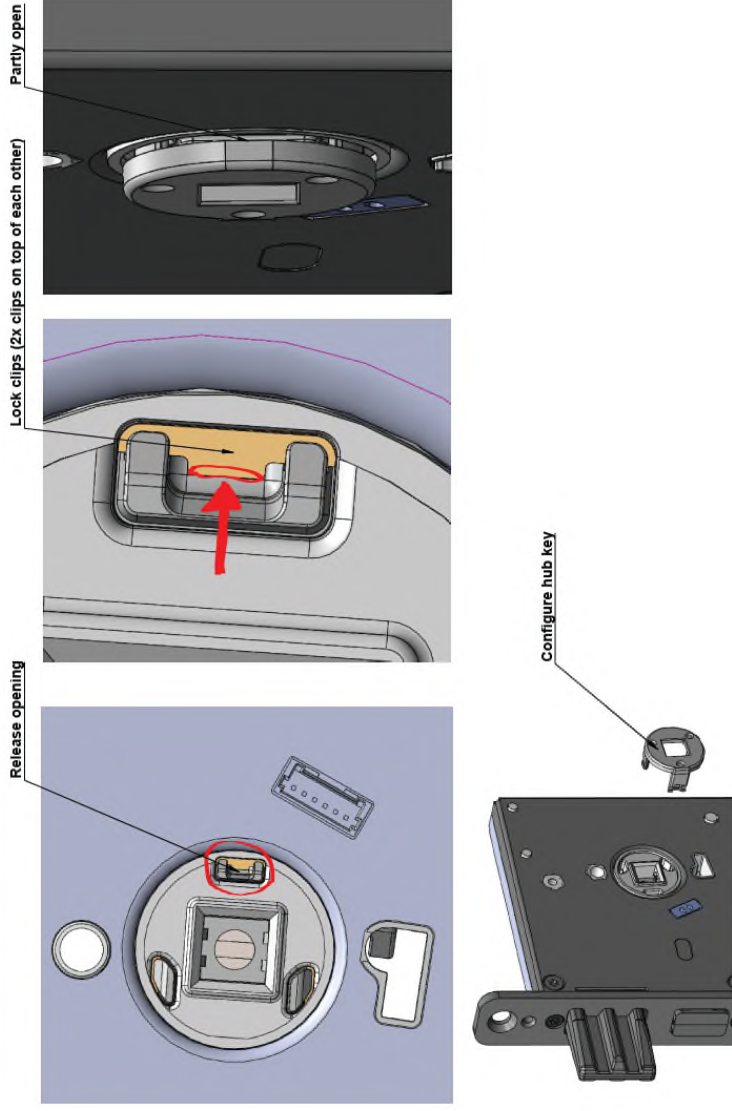


Figure 8

2.4.3 Perform strike installation

The following subsections describe *standard strike* and *slim strike*, but note that several other strike models are available*. For installation of frame power module, see [section 2.5.5](#). Necessary screws are included in the respective hardware kit; see [Appendix A](#).

Note: The maximum distance between the outside front and the strike, i.e. the maximum door gap to ensure the *magnet strike assy* triggers the bolt, should not exceed 5 mm. This applies for all strike types. If the door gap is larger than 5 mm, there is a risk over time that the bolt is not released.

2.4.3.1 Standard strike

Note: Make sure to mount the *magnet strike assy* with the grooves on the inside; see right part of Figure 9.

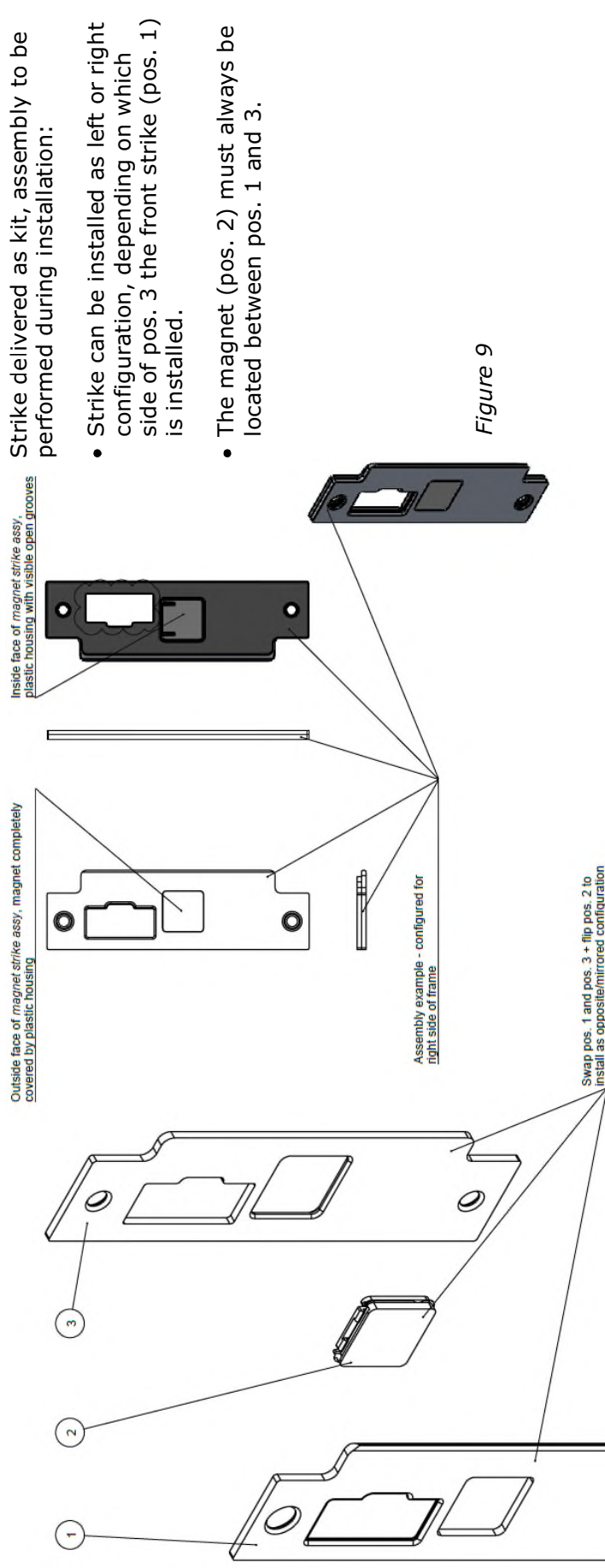
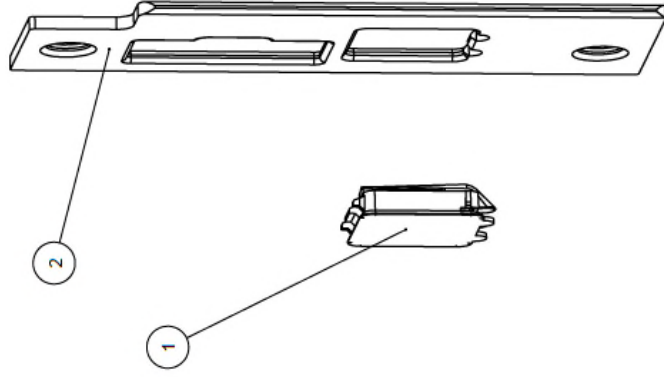


Figure 9

- Strike delivered as kit, assembly to be performed during installation:
- Strike can be installed as left or right configuration, depending on which side of pos. 3 the front strike (pos. 1) is installed.
 - The magnet (pos. 2) must always be located between pos. 1 and 3.

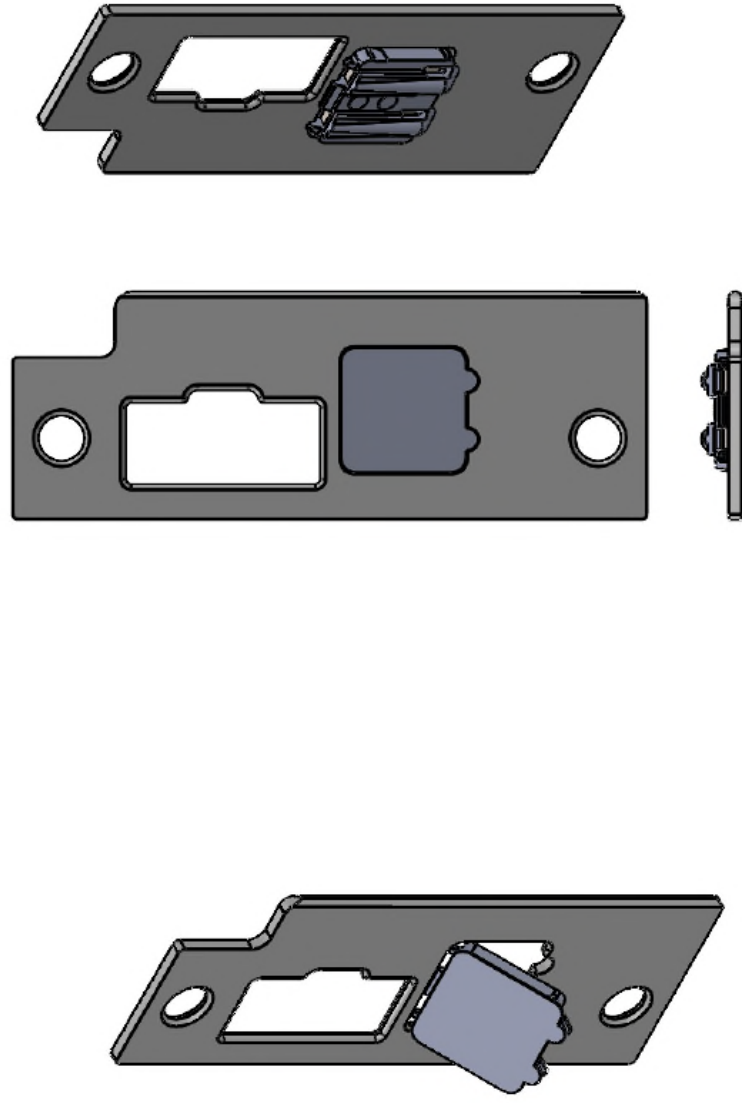
*) Log in to the service portal <https://my.assaabloyglobalsolutions.com> and click [this link](#) (for ASSA ABLOY Global Solutions employees) for a drawing with different strike cut-outs.

2.4.3.2 Slim strike



Delivered as kit with pos. 1 and 2 as loose parts

Assembly to be performed on site: snap pos. 1 into pos. 2 by rotating the magnet into the strike from either side - dependent on left or right position in frame



Assembled state

Figure 10

2.4.4 Perform key cylinder installation

Note: The key cylinder must be installed before the lock case is mounted in the door and before the battery holder is installed.

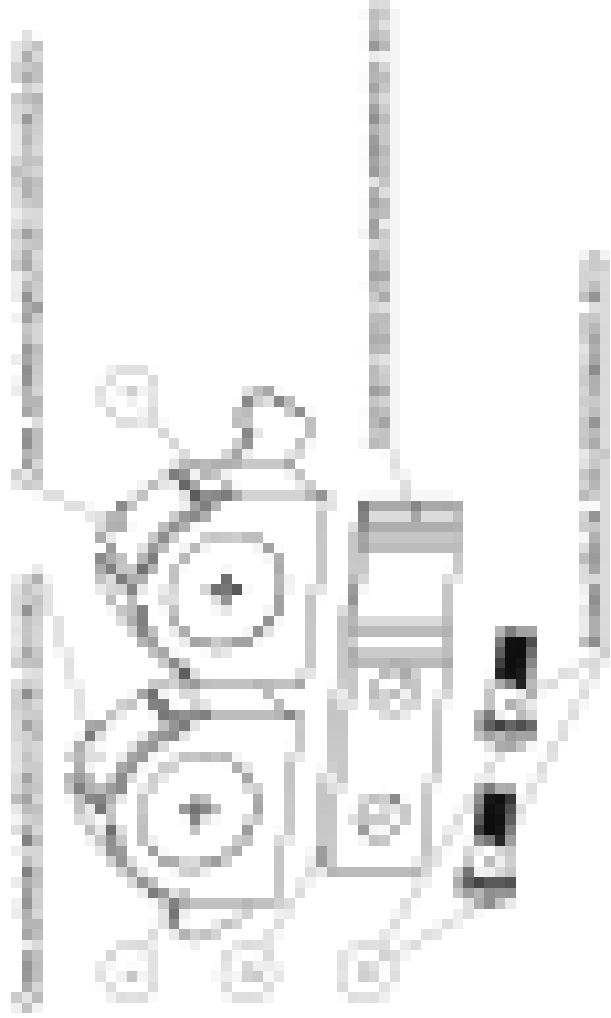


Figure 11: Cylinder parts (not included in lock kit)

1. Insert a small flat screwdriver (see Figure 13) in the opening highlighted with a red circle in Figure 12.



Figure 12

2. Bend/rotate the screwdriver in the direction of the back end of the lock case, to push the cover out of its fixated position; see Figure 14.
3. Remove the cover by hand to get it out from the opening where batteries or lock power module are located; see Figure 15.

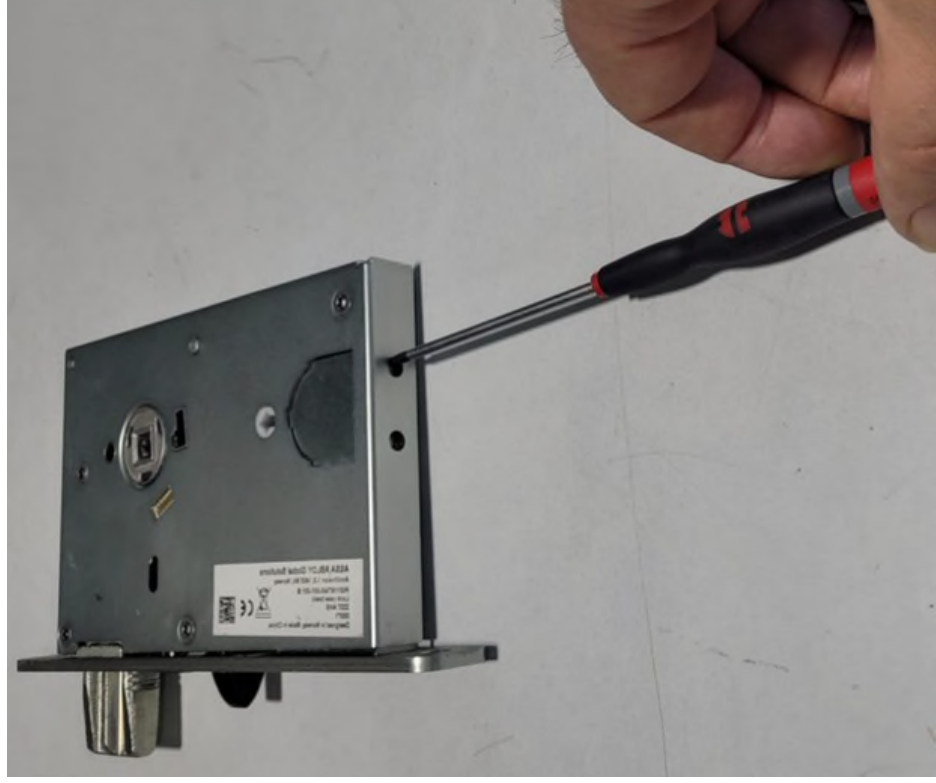


Figure 13



Figure 14



Figure 15

4. Verify that the cylinder handing matches the handing of the door (left/right). If the handing needs to be changed, follow the steps under [Reconfigure key cylinder](#).
5. Insert the key cylinder by tilting and pushing it in place from the outside. The cylinder lever must enter the lock case first.
6. Lift the key cylinder upward into the designated slots, and mount the cylinder base plate through the battery compartment.
7. Secure the cylinder base plate in place with the two screws (M5 x 14 T20); see parts in Figure 16.

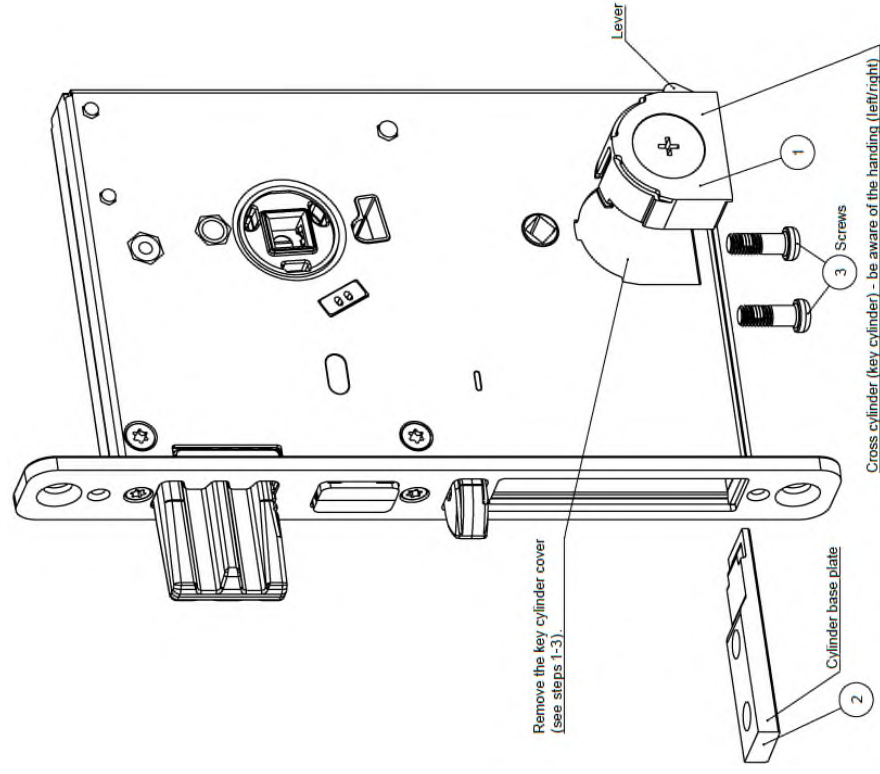


Figure 16: Key cylinder installation (position numbers refer to parts in [Figure 11](#))

Reconfigure key cylinder:

The key cylinder can be reconfigured to left or right handing using a Phillips PH1 screwdriver as shown below.

Note: Be aware not to have the key inserted when detaching the cylinder lever.

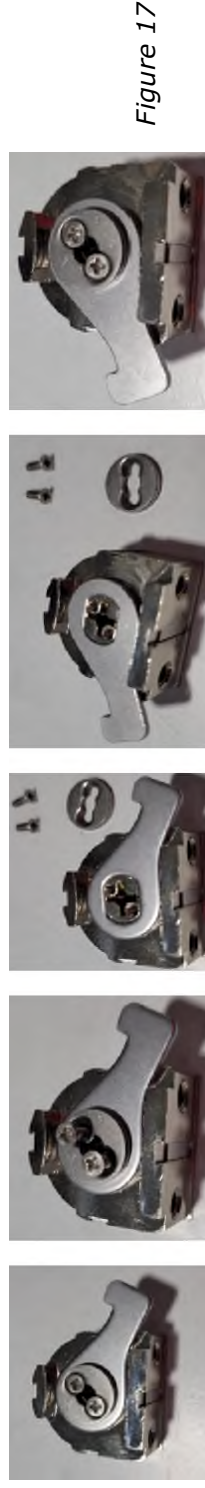


Figure 17

2.5 Lock power module/frame power module

If desired, a *lock power module* and a *frame power module* can be used instead of batteries; see [Figure 22](#). The lock power module is inserted in the same way as the battery holder. The frame power module is a strike with an integrated LED circuit board. The strike can be configured for right or left hinges. For strike installation, see [section 2.5.5](#).

Note: The lock power module should normally never be replaced. But if it is exchanged, connect Vostio Service Tool to the lock after the replacement and click **Analyze** at the bottom of the Vostio Service Tool screen to set the time.

2.5.1 Power supply/AC adapter

The power supply/AC adapter for the frame power module must fulfill the requirements below:

- Output voltage: 12/24V (10-30V)
- Output power: 1.5W minimum

The following AC adapters can be purchased from ASSA ABLOY Global Solutions:

Art.No	Name
P001312370-001-001	AC adapter, 15V, 3W, EU (for Europe)
P001312371-001-001	AC adapter, 15V, 3W, US (for North America)
P001312372-001-001	AC adapter, 15V, 3W, UK (for United Kingdom)
P001312373-001-001	AC adapter, 15V, 3W, AUS (for Australia)
P001312374-001-001	AC adapter, 15V, 3W, CH (for China)
Table 2	

2.5.2 Power supply location

Make sure to position the power supply out of reach from hotel guests and other people except for qualified service personnel, to avoid it from being pulled out of the power outlet accidentally.

2.5.3 Cable between frame power module and power supply

The specification of cable between frame power module and power supply:

- Cable with 2 wires, 24-20AWG (0.2mm² - 0.5mm²)

The following cable for use between frame power module and power supply can be purchased from ASSA ABLOY Global Solutions:

Art.No	Name
P001410594-001-001	Cable, white, 2 wires R/B, 24AWG
Table 3	

2.5.4 Prepare wire ends from power supply to lock power module

- 1.Remove the insulation as shown below.
- 2.Twist the strands of the wire, to get it more rigid.

Note: Do not solder the wire ends - doing so will prevent a correct connection.



Figure 18

2.5.5 Install frame power module



Figure 19

Note: Make sure to mount the *magnet strike assy* with the grooves on the inside; see Figure 20 (next page).

Note: When fastening the frame power module to the frame, make sure that the power cables have enough room as specified in the strike cut-out drawing*. Avoid that the wires are squeezed/damaged between the strike and the frame; also see Figure 19. See more about frame power module installation in Figure 20.

*) Log in to the service portal <https://my.assaabloyglobalsolutions.com> and click [this link](#) (for ASSA ABLOY Global Solutions employees) for a drawing with different strike cut-outs.

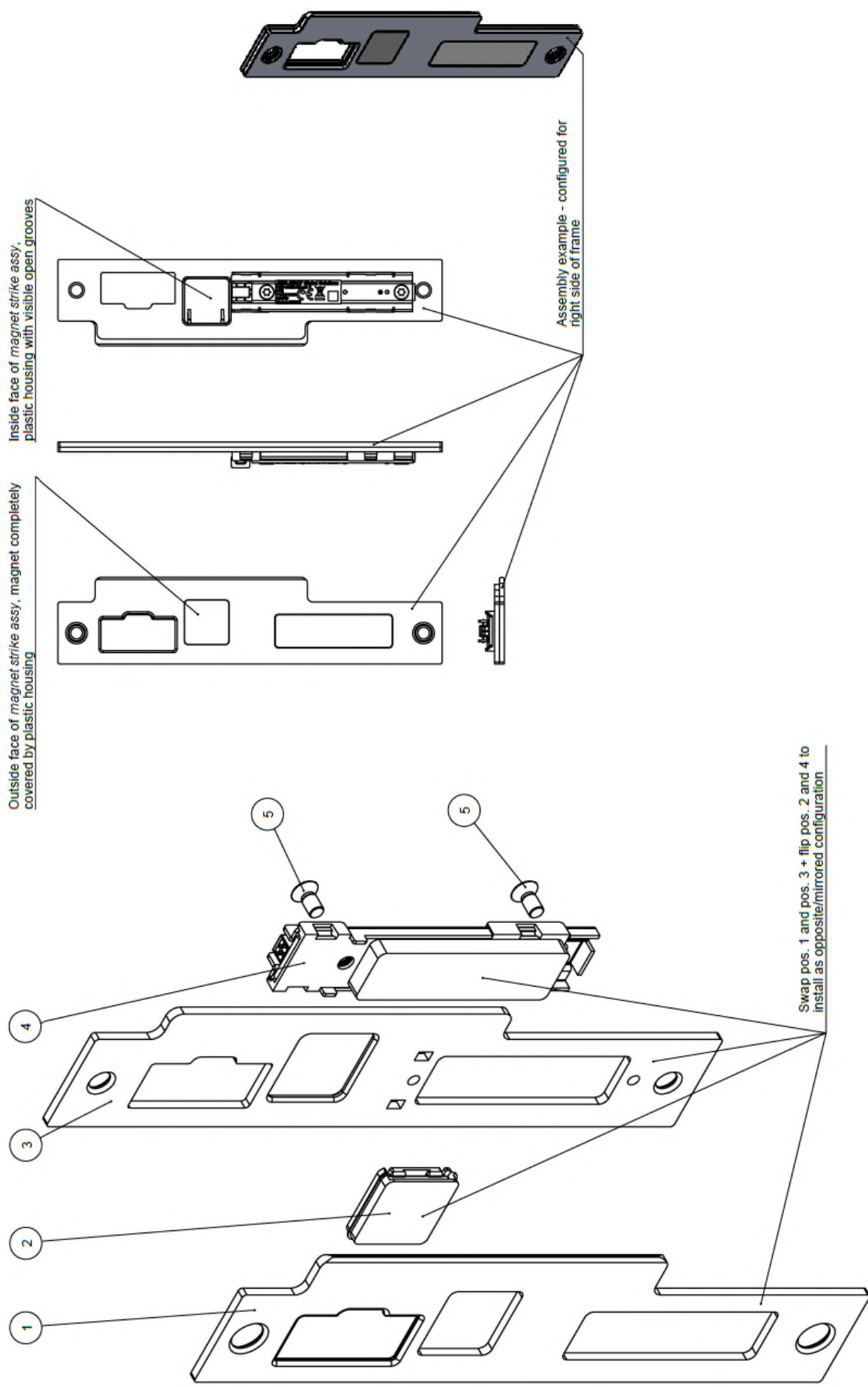


Figure 20

2.5.6 Connect frame power module to power cables

The terminal blocks on the frame power module are colored red for the positive wire and black for the negative. The terminal blocks are opened with fingers pushing the push button levers before inserting the wires. When the power supply is connected with the correct polarity, a red status LED will light on the rear side of the frame power module; see below.

Note: If the wires have been connected with incorrect polarity, the frame power module will not be broken but will start working when the polarity has been corrected.

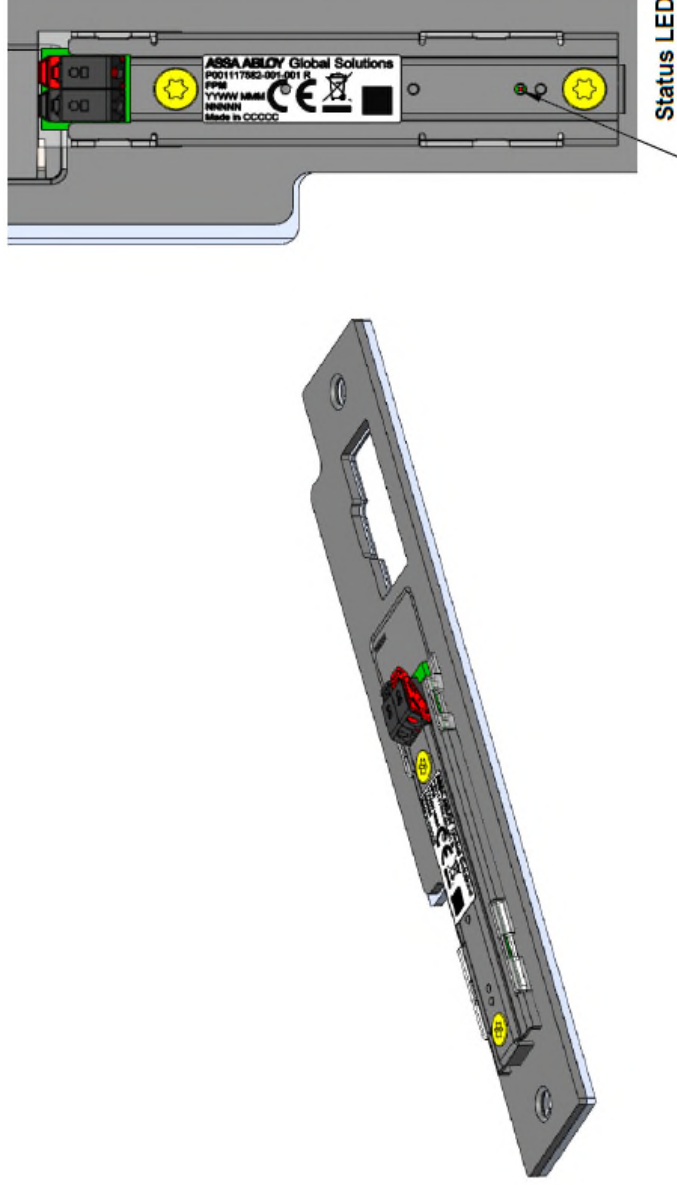


Figure 21

2.5.7 Install lock power module

See [section 2.4](#) for the overall installation steps, but instead of mounting the batteries follow the steps in [Figure 22](#).

Note: At mounting, the lock power module does not have any charge. Once mounted, it will slowly charge via the frame power module, (also see or more quickly via USB when the lock is programmed according to *Commissioning and maintenance guide VingCard Novel* (also see charging times in that document)). When the lock power module is charged enough to boot the system, a beep will be heard and the main LED (see [Figure 1](#)) will blink green three times followed by one orange blink. This indicates that the communication between handle and lock case works. If there is instead a beep and a red blink followed by an orange blink, the communication does not work.

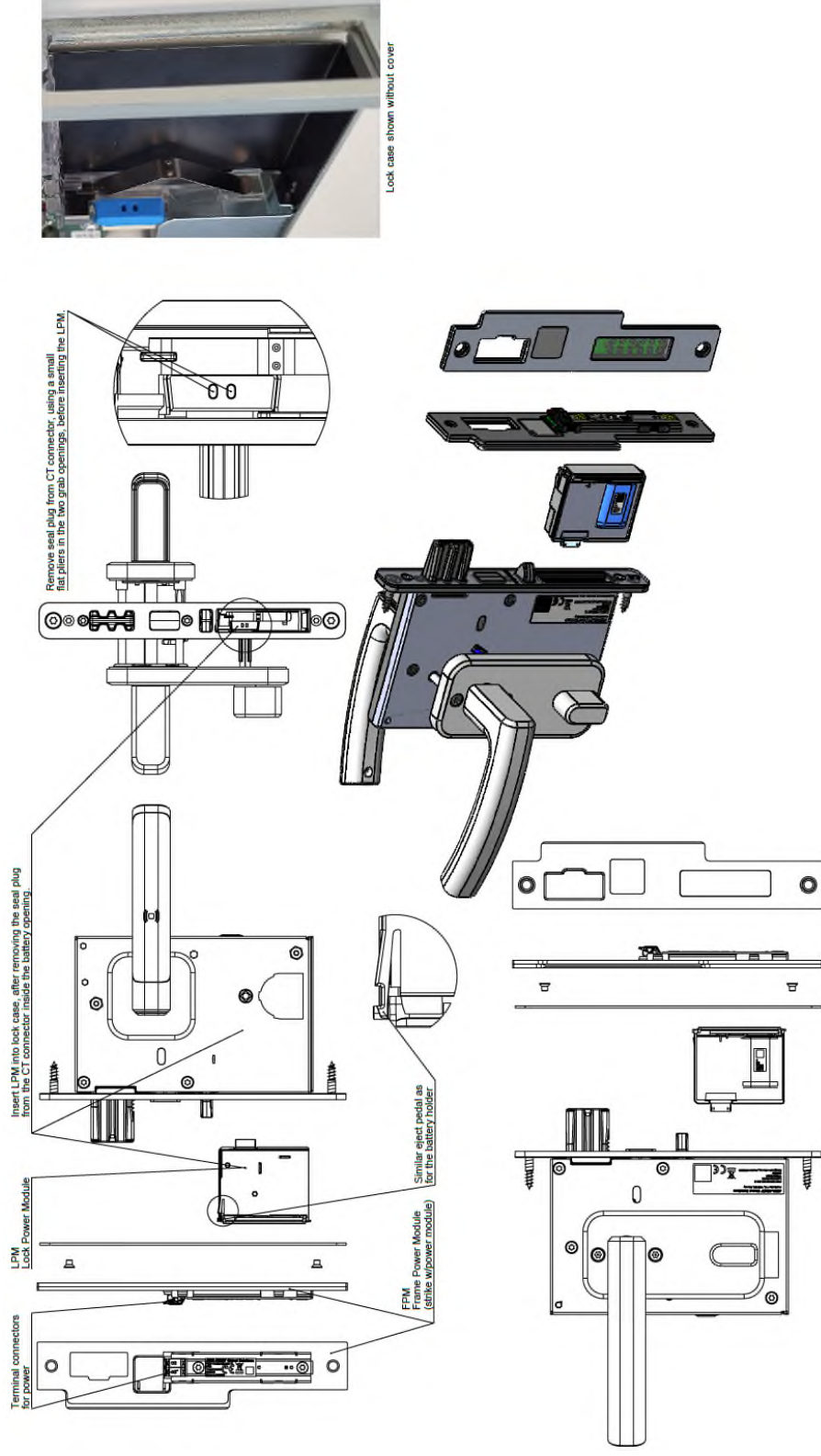


Figure 22

2.6 Perform hardware check

Note: The below steps do not require that the locks have been commissioned. The steps in this checklist can be performed with an open door, or when standing on the inside of the door. Avoid closing the doors before commissioning is done. Alternatively, a complete check of the lock (hardware check and configuration check) can be done after commissioning*.

1. Verify that both handles return completely to horizontal position, and that there is no unwanted friction caused by the installation/door cut-out.
2. Make sure that the bolt protrudes completely into the strike opening. It must not be stopped halfway out by the strike, which can be caused by
 - the door seal pressure
 - a too shallow bolt opening (the opening should be minimum 26 mm deep)
 - a foreign object in the bolt openingTo verify that the bolt protrudes completely: Turn the thumbturn on the inside when the door is closed. The thumbturn shall effortlessly click into a 45 degree position when activated, without any unwanted friction.
3. Check that an activated privacy/thumbturn is easily returned back to horizontal position when the inside or outside handle is pulled.
4. *If key cylinder is applicable:* Make sure to use the first level emergency key to avoid recoding of cylinder to the next key level.
5. Make sure that the maximum distance between the outside front and the strike, i.e. the maximum door gap to ensure the *magnet strike* assy triggers the bolt, does not exceed 5 mm. This applies for all strike types. If the door gap is larger than 5 mm, there is a risk over time that the bolt is not released.

Note: After commissioning of the lock, some additional checking steps are needed*.

*) See *Commissioning and maintenance guide VingCard Novel* for details; log in to the service portal <https://my.assaabloyglobalsolutions.com> and click [this link](#) (for ASSA ABLOY Global Solutions employees).

2.7 Perform cleaning of locks

For information about how to clean *VingCard Novel mortise locks*, see [Product care instructions](#). For cleaning information especially related to covid-19, see [Cleaning guidance communication](#).

Appendix A: Lock configurations

Figure A1 shows all possible parts for a new installation of a *VingCard Novel mortise lock*, with alternative parts at some positions. The links to the right give more details on which parts that are included for the different scenarios.

Note: If key cylinder is applicable, note that the cylinder parts are not included in the kits shown in the appendix but are purchased separately. See [section 2.4.4](#) for cylinder parts.

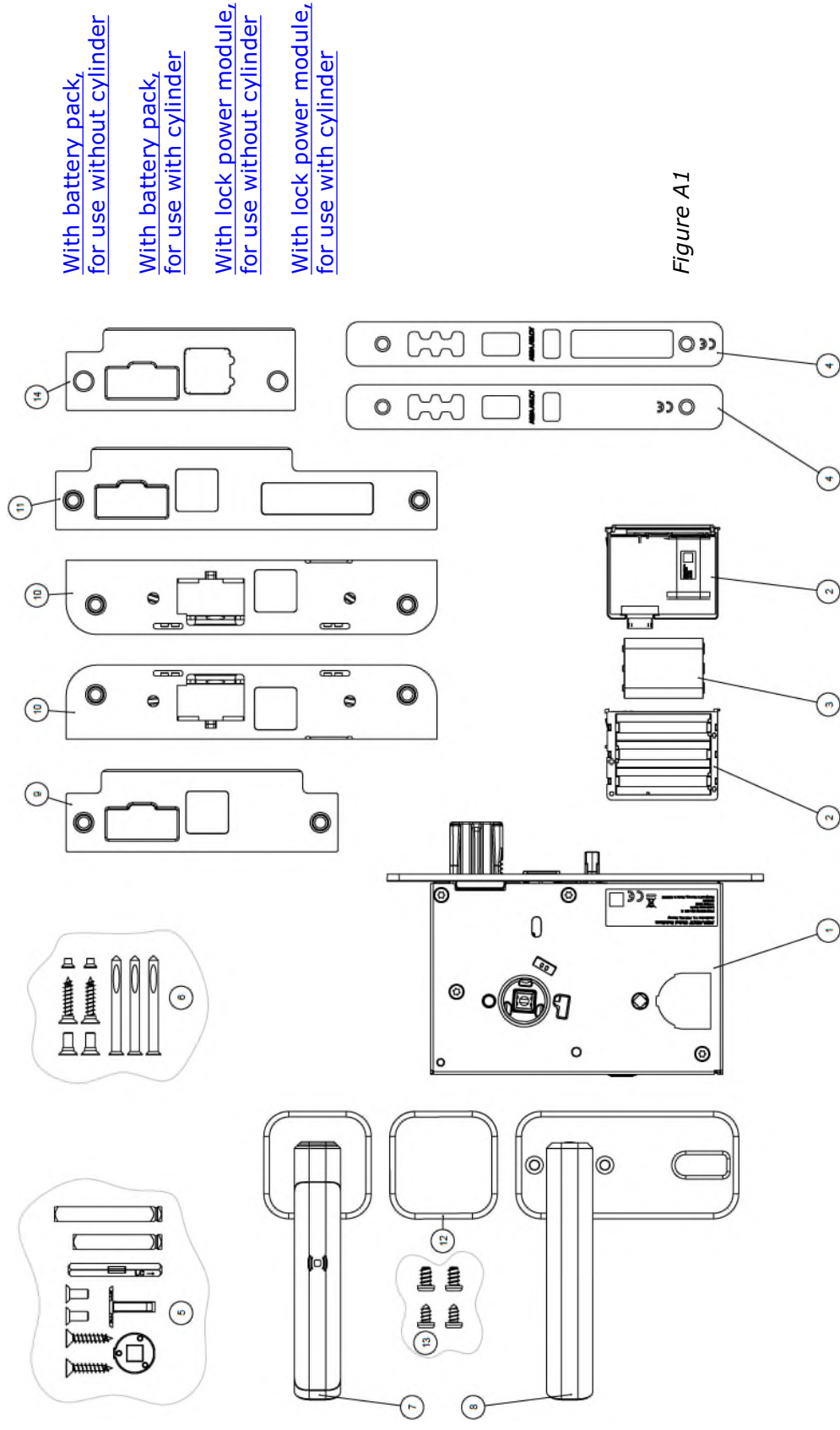
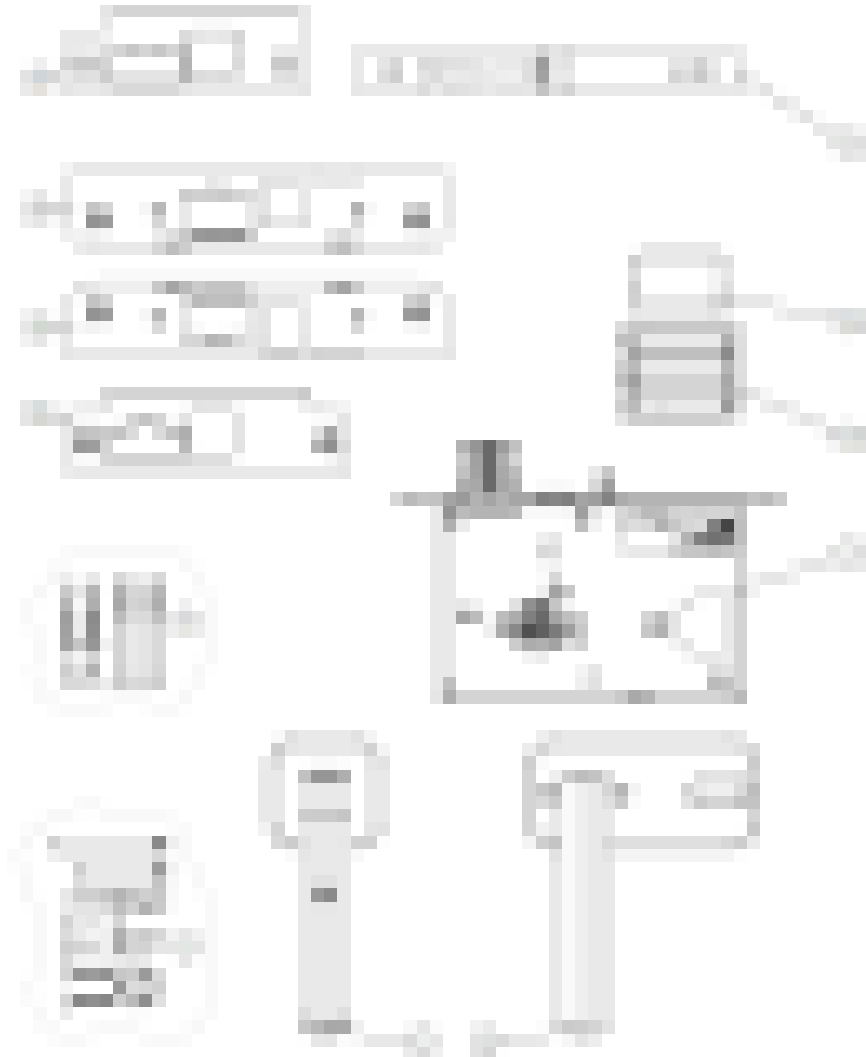


Figure A1

With battery pack, for use without cylinder



Art. No	Name
P001170024-100-XXX	VC Novel, 24mm, [finish]
P001170024-101-XXX	VC Novel, 25mm, [finish]
P001170024-102-XXX	VC Novel, 28mm, [finish]
P001170024-103-XXX	VC Novel, 32mm, [finish]
Table A1	

Pos	Name
1	Lock case basic
2	Integrated battery holder assy
3	Battery pack-AA
4	Outside front 24mm Outside front 25mm Outside front 28mm Outside front 31.5mm
5	Hardware kit
6	Color specific HW-kit
7	Outside handle assy, rose
8	Inside handle, escutcheon
9	Strike kit/ANSI DA retrofit
10	Strike security assy left Strike security assy right
14	Strike kit retrofit slim
Table A2	

Figure A2: 'VC Novel' is available for different lock front widths according to Table A1. See part names in Table A2.

With battery pack, for use with cylinder

Note: Key cylinder parts are purchased separately; see [section 2.4.4](#) for details.

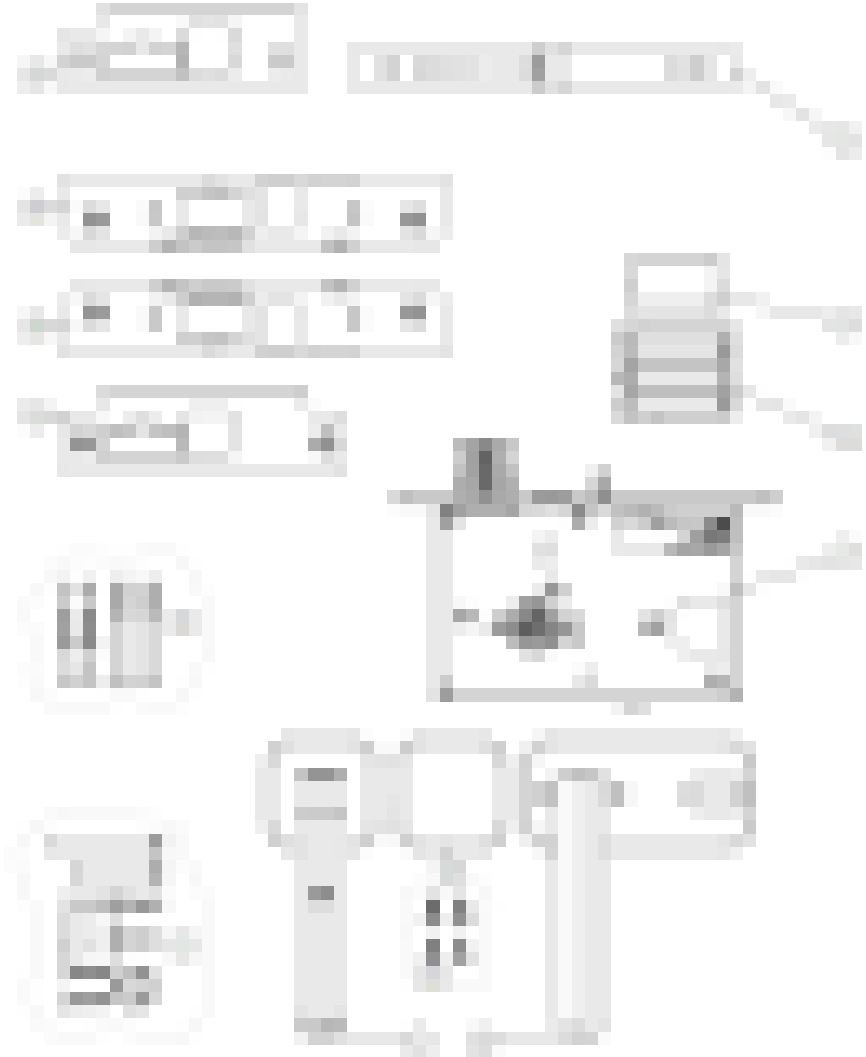


Figure A3: 'VC Novel C' is available for different lock front widths according to Table A3. See part names in Table A4.

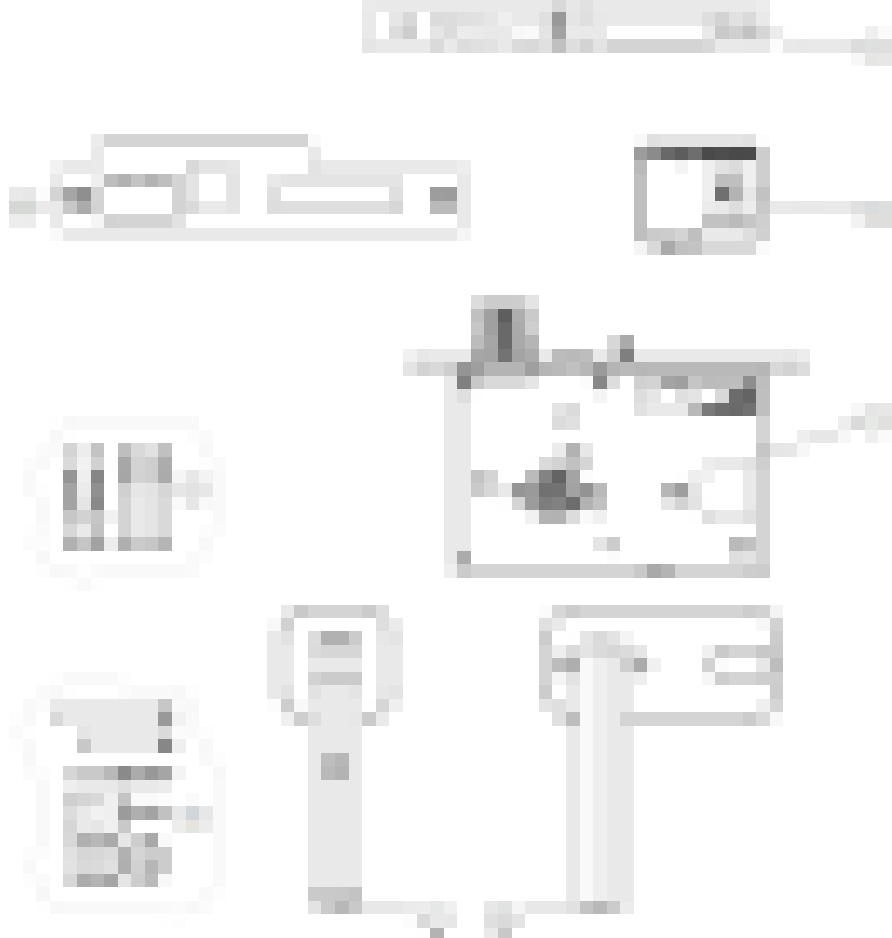
Art. No	Name
P001170024-200-XXX	VC Novel C, 24mm, [finish]
P001170024-201-XXX	VC Novel C, 25mm, [finish]
P001170024-202-XXX	VC Novel C, 28mm, [finish]
P001170024-203-XXX	VC Novel C, 32mm, [finish]

Table A3

Pos	Name
1	Lock case basic
2	Integrated battery holder assy
3	Battery pack-AA
4	Outside front 24mm Outside front 25mm Outside front 28mm Outside front 31.5mm
5	Hardware kit
6	Color specific HW- kit
7	Outside handle assy, rose
8	Inside handle, escutcheon
9	Strike kit/ANSI DA retrofit
10	Strike security assy left Strike security assy right
12	Rosette, keyhole rose assembly, Overlook
13	Hardware kit, cylinder rose
14	Strike kit retrofit slim

Table A4

With lock power module, for use without cylinder



Art.No	Name
P001170024- 104- XXX	VC Novel, 24mm, battery free, [finish]
P001170024- 105- XXX	VC Novel, 25mm, battery free, [finish]
P001170024- 106- XXX	VC Novel, 28mm, battery free, [finish]
P001170024- 107- XXX	VC Novel, 32mm, battery free, [finish]

Table A5

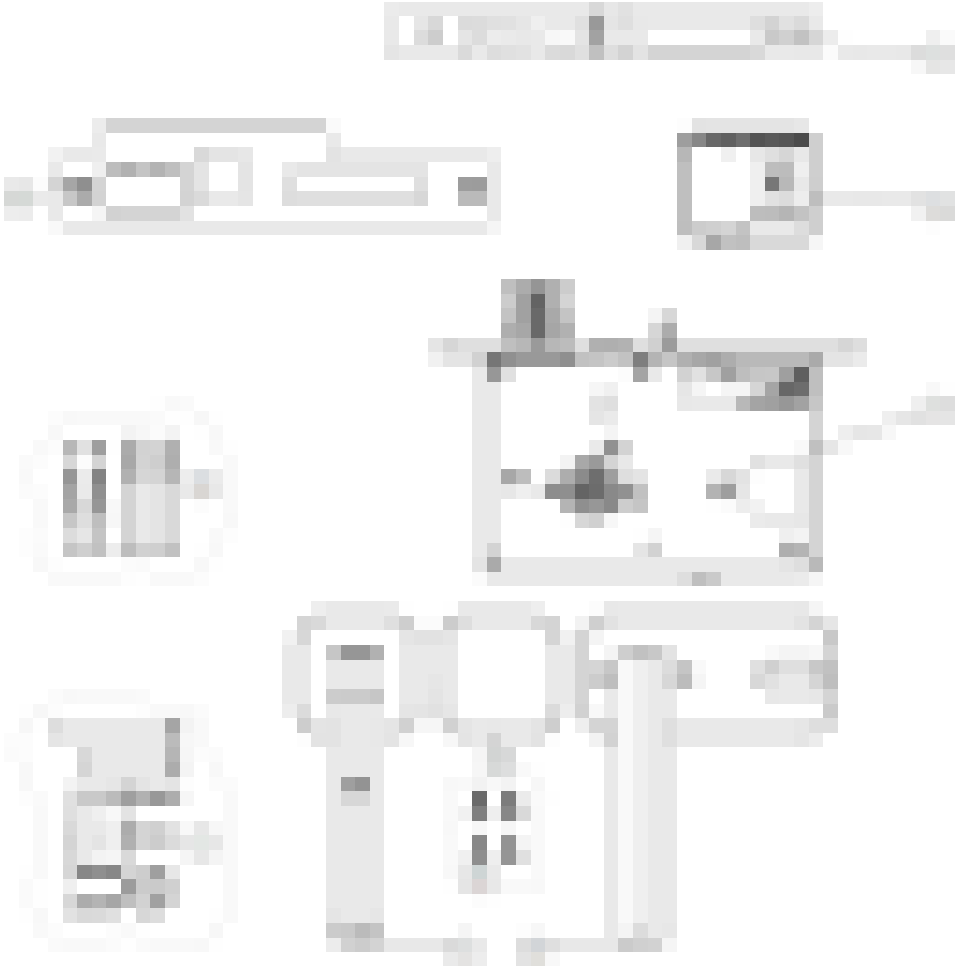
Pos	Name
1	Lock case basic
2	Lock power module (LPM)
4	Outside front 24mm Outside front 25mm Outside front 28mm Outside front 31.5mm
5	Hardware kit
6	Color specific HW-kit
7	Outside handle assy, rose
8	Inside handle, escutcheon
11	FPM strike kit

Table A6

Figure A4: 'VC Novel, battery free' is available for different lock front widths according to Table A5. See part names in Table A6.

With lock power module, for use with cylinder

Note: Key cylinder parts are purchased separately; see [section 2.4.4](#) for details.



Art.No	Name
P001170024-204-XXX	VC Novel C, 24mm, battery free, [finish]
P001170024-205-XXX	VC Novel C, 25mm, battery free, [finish]
P001170024-206-XXX	VC Novel C, 28mm, battery free, [finish]
P001170024-207-XXX	VC Novel C, 32mm, battery free, [finish]

Table A7

Pos	Name
1	Lock case basic
2	Lock power module (LPM)
4	Outside front 24mm Outside front 25mm Outside front 28mm Outside front 31.5mm
5	Hardware kit
6	Color specific HW-kit
7	Outside handle assy, rose
8	Inside handle, escutcheon
11	FPM strike kit
12	Rosette, keyhole rose assembly, Overlook
13	Hardware kit, cylinder rose

Table A8

Figure A5: 'VC Novel C, battery free' is available for different lock front widths according to Table A7. See part names in Table A8.

Appendix B: Beveled doors

If a door is beveled (edge is not at 90° to door), the angle of the lock front can be adjusted as below.

Note: This procedure can also be performed from the outside while the lock case is inserted into the cut-out pocket.

1. Use a standard T20 screwdriver and turn open the two T20 screws a half turn to loosen the front.
2. Adjust the front to the desired angle, then tighten the screws back to fixate the front.



Figure B1

Appendix C: Regulations

- Door mass: up to and above 200 kg
- Operative temperature range: -20 to +70 Celsius

Check the fire certification of the doors; *VingCard Novel mortise lock* is suitable for single wooden timber fire doors. The *VingCard Novel mortise lock* is not intended for use on double action (double swing) doors unless specifically designed by the producer. Where *VingCard Novel mortise lock* is to be fitted to double doorsets with rebated meeting stiles, and self-closing devices, or door coordinator device in accordance with EN 1158 needs to be fitted to ensure the correct closing sequence of the doors. This is particularly important with regard to fire/smoke resisting door assemblies.

VingCard Novel mortise lock is fire tested for 30 and 60 minutes respectively.

Test reports

- 30 minutes: PGA12143B
- 60 minutes: PGA12174B

When *VingCard Novel mortise lock* is installed on a 60 minutes fire door, a fire retardant material as in Figure C1 (article number P001451427-001-001) must be applied as described in Figures C2-C4. See pictures in the following pages.

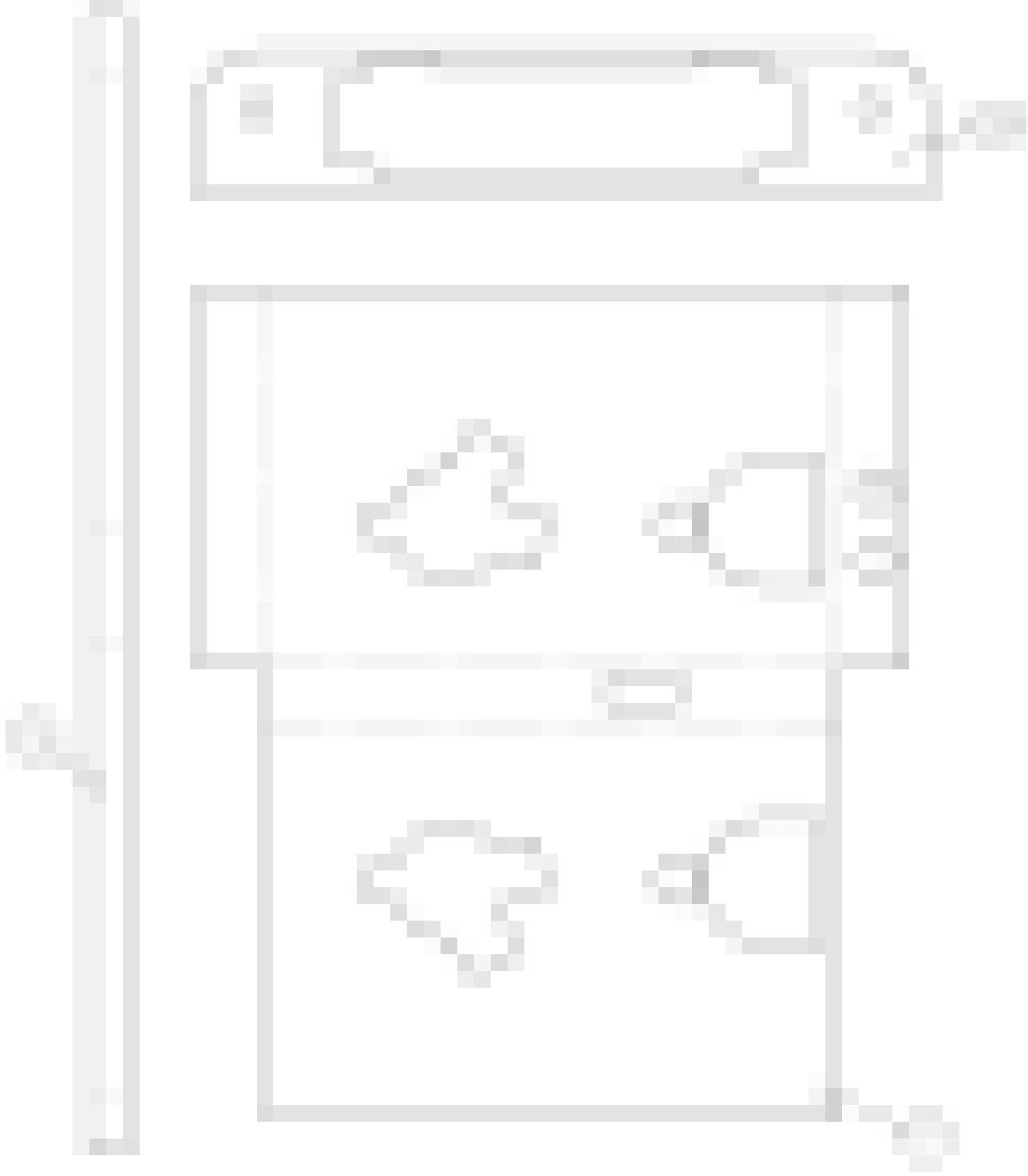


Figure C1

Fasten fire retardant material on lock case:

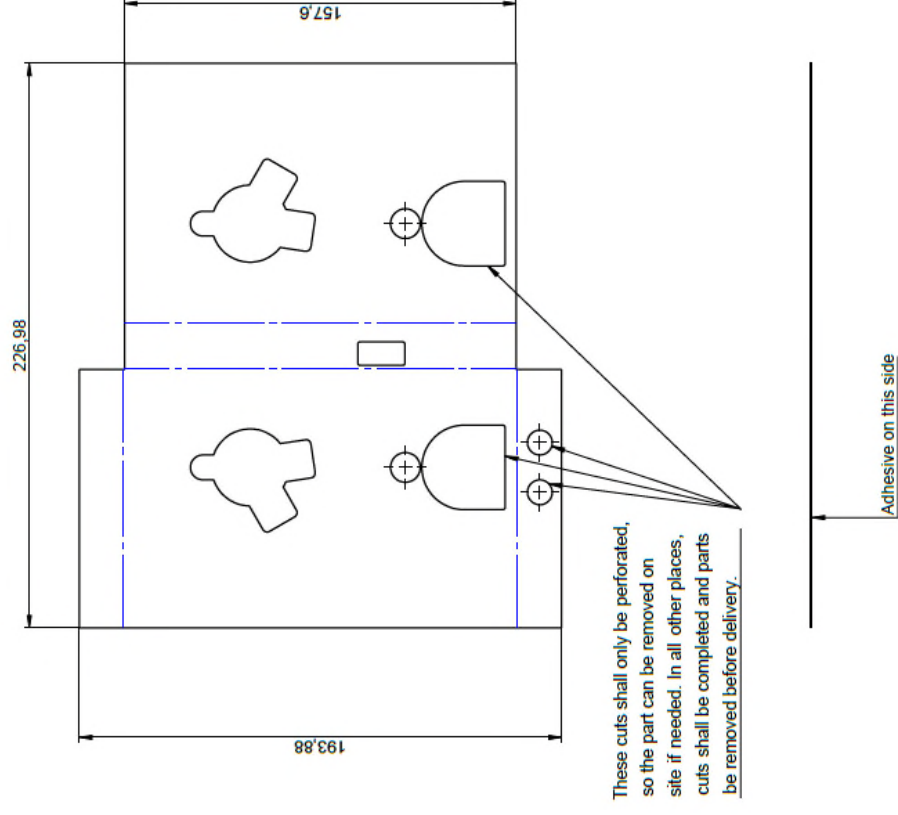
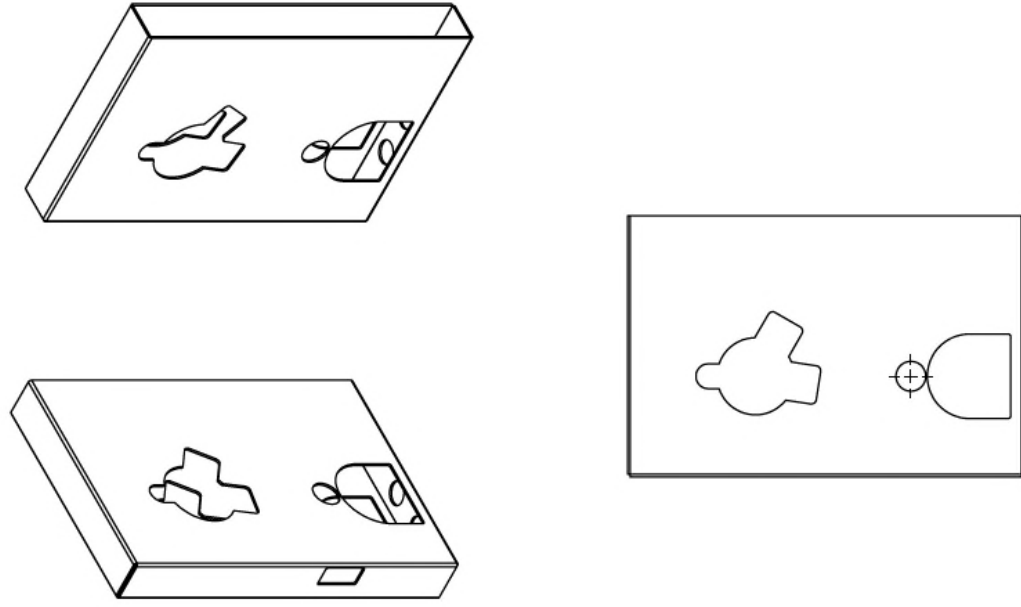


Figure C2 (dimensions in mm)

Fasten fire retardant material on security strike well:

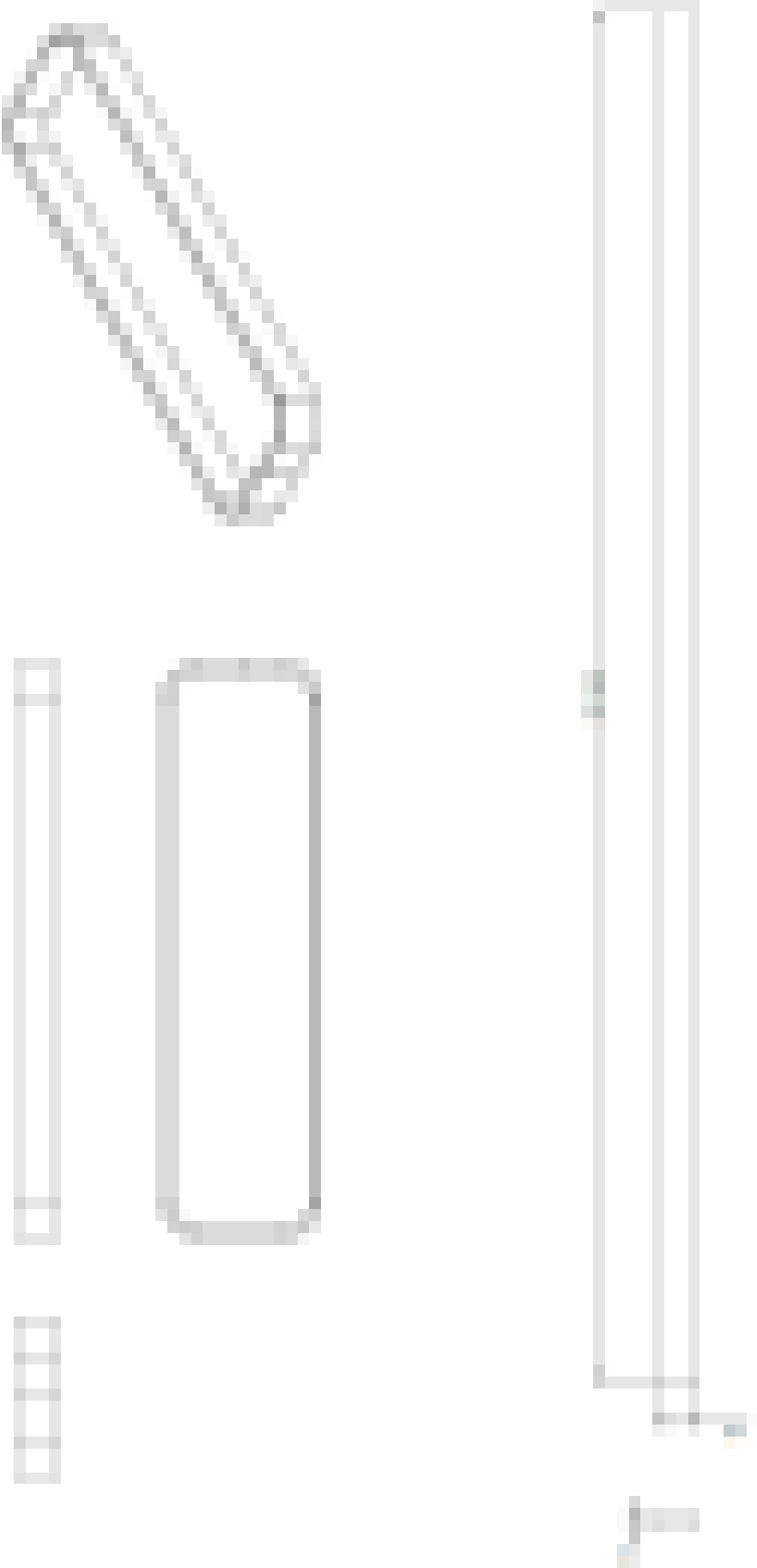


Figure C3 (dimensions in mm)

Fasten fire retardant material on security strike front:



Figure C4 (dimensions in mm)

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