

KA21

Cassette Cash Drawer

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KA21

Cassette Cash Drawer

Product Manual

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Introduction

The KA21 Cassette Cash Drawer is a small, space-saving drawer with a hinged cover, designed as a desktop model. Thanks to its compact construction and upward opening cover, the cash drawer has a small footprint.

It can be connected directly to the cash drawer interface provided on the BEETLE systems.

Warranty

Wincor Nixdorf guarantees generally a warranty engagement for 12 months beginning with the date of delivery. This warranty engagement covers all those damages which occur despite a normal use of the product.

Damages because of

- improper or insufficient maintenance,
- improper use of the product or unauthorized modifications of the product,
- inadequate location or surroundings

will not be covered by the warranty.

For further information of the stipulation look at your contract.

All parts of the product which are subject to wear and tear are not included in the warranty engagement.

Please order spare parts at the Wincor Nixdorf customer service.

Important Note

First connect the signal cable with the cash drawer. Then connect it to the host system (BEETLE or printer)!

About This Manual

This documentation is intended to help you to work with the KA21 cashdrawer and to serve as a reference work.



Notes in the manual are marked by this symbol.



This symbol is used for warnings.

The type and scope of application programs depend on the customer's own selection; therefore, software will not be discussed further in this manual.

Manufacturer's Declaration and Approval



The device complies with the requirements of the European directives 2004/108/EC with regard to "Electromagnetic compatibility".

Therefore, you will find the CE mark on the device or packaging.

FCC-Class A Declaration

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Modifications not authorized by the manufacturer may void users authority to operate this device.

This class A digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Recycling the KA21

Environmental protection does not begin when it comes time to dispose of the KA21; it begins with the manufacturer. This product was designed according to our internal norm “Environmental conscious product design and development”.

The KA21 is manufactured without the use of CFCs und CCHS and is produced mainly from reusable components and materials. The processed plastics can, for the most part, be recycled. Even the precious metals can be recovered, thus saving energy and costly raw materials.

Please do not stick labels onto plastic case parts. This would help us to re-use components and material. You can protect our environment by only switching on your equipment when it is actually needed. If possible, even avoid the stand-by-mode as this wastes energy, too. Also switch your equipment off when you take a longer break or finish your work.

At this time, there are still some parts that are not reusable. Wincor Nixdorf guarantees the environmentally safe disposal of these parts in the Recycling Center, which is certified pursuant to ISO 9001 and 14001.

So don't simply throw your KA21 on the scrap heap when it has served its time, but take advantage of the environmentally smart, up-to-date recycling methods.

Please contact your competent branch or the Recycling Center Paderborn (for European countries) for information on how to return and re-use devices and disposable materials under the following fax number:

E-Mail: info@wincor-nixdorf.com

We look forward to your message.

Care of the KA21

Clean your KA21 at regular intervals with a suitable commercially available surface cleaner. Make sure that the power plug is disconnected, connector cables are unplugged and that no liquid finds its way into the device.

Accessories Kit

The KA21 is delivered with an accessories kit containing:

- 1 key set (to lock and unlock the cash drawer with the lock at the front),
- 1 bank-note holder (to be stuck on the KA21).

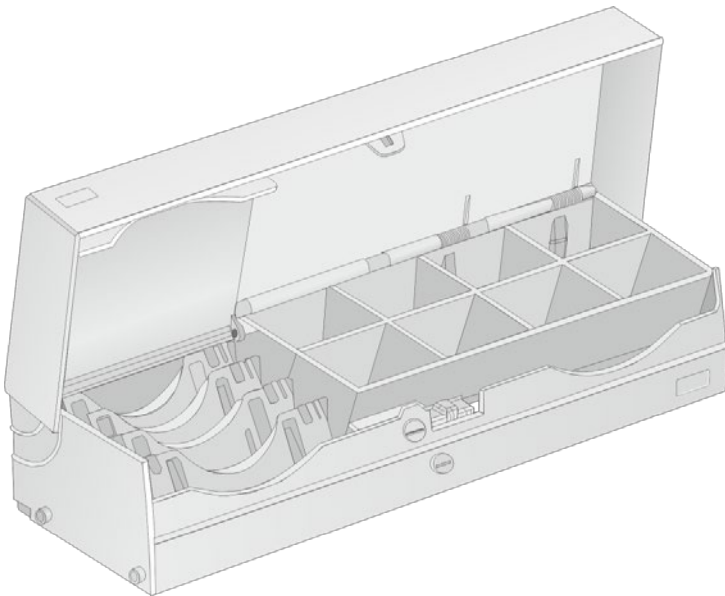
The KA21 Cassette Cash Drawer

General

The KA21 Cassette Cash Drawer is a small, space-saving drawer with a hinged cover, designed as a desktop model. Thanks to its compact construction and upward opening cover, the cash drawer has a very small footprint, thus allowing a variable arrangement of the working environment.

The hinged cover's wide opening angle makes coins and bank notes easily accessible.

The essential components of the cash drawer are the base plate and the electronic unit it accommodates, the plastic housing, the coin/ bank note trays and the electromechanical lock.



KA21 Cassette Cash Drawer

Summary of Features

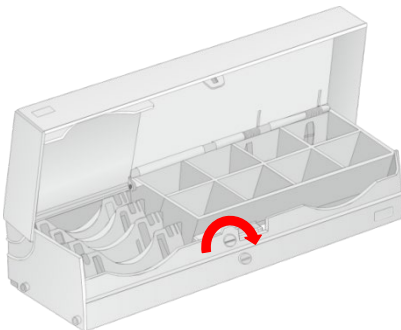
- compact design
- adjustable money compartments
- small footprint
- bank note compartments and coin compartments changeable
- bank note compartments with removable cover
- stable base plate
- easy to attach
- increased safety against unauthorized removal of the KA21

Setting up the Cash Drawer

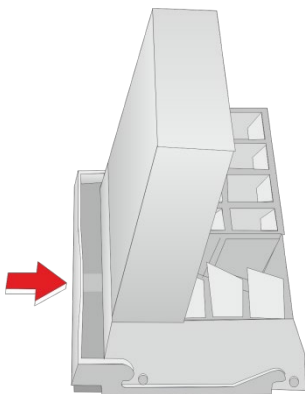
The base plate must be mounted horizontally in the flat surface of a check-out desk. Please refer to the appendix for the installation. Place the cash drawer on the base plate, noting the position of the metallic guide (left and right), on the electronic unit housing and the guide outside the cash drawer. Then slide back the cash drawer until it locks into place. It is now firmly attached to the checkout desk and can be opened only by means of the POS system.

Release the Cash Drawer

To release the cash drawer from the base plate, open the drawer by means of the POS system. The lock is now accessible (see arrow).

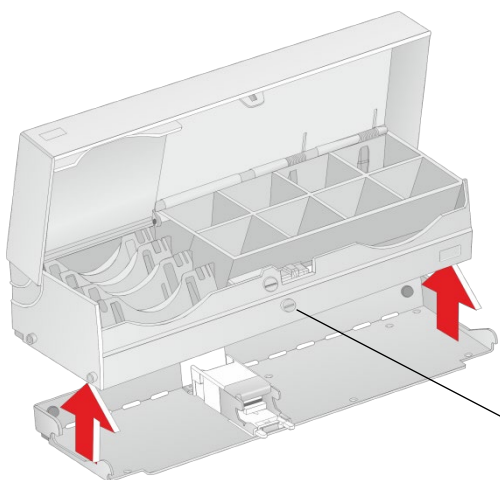


Unlock the cash drawer from the base plate by rotating the lock clockwise approx. 15 degrees using, for example, a plastic key.



A spring mechanism automatically slides the drawer about half an inch forward.

You can now pull the cash drawer forwards and lift it off the base plate.



Cylinder lock



When not installed on the base plate, the cash drawer can be opened only by means of the cylinder lock!

Emergency Manual Release

If absolutely necessary, you can release the cash drawer by inserting a screwdriver in a small opening (\varnothing 2,5 mm, M3) in the base plate from below.

After the cash drawer is released, it can then be opened by means of the key.



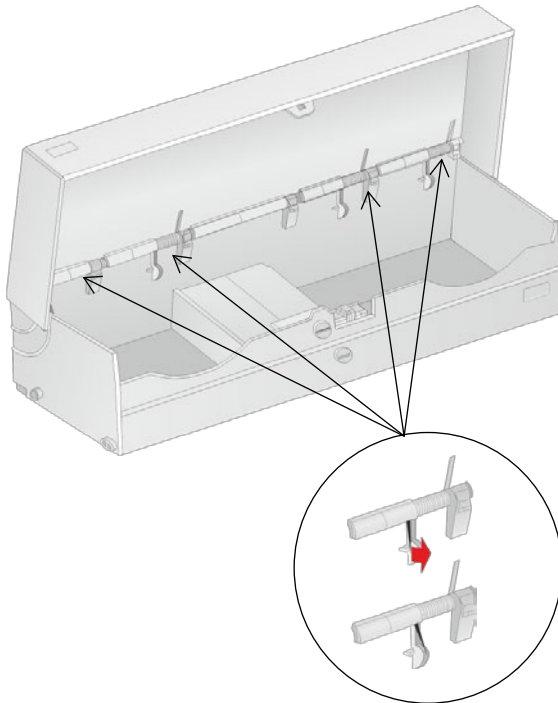
Make sure beforehand that the emergency manual release function is allowed.

Activating the Cassette Cash Drawer

For the cash drawer to be put into service, the POS software must log it into the POS system. The POS software, controlled by means of the POS keyboard, opens the cash drawer. For further information, see the user manuals of the POS system software.

Strengthen the Spring Tension of the Cover

In order to strengthen the spring tension you bring each of the four metal springs from the low into the higher guide (see illustration).



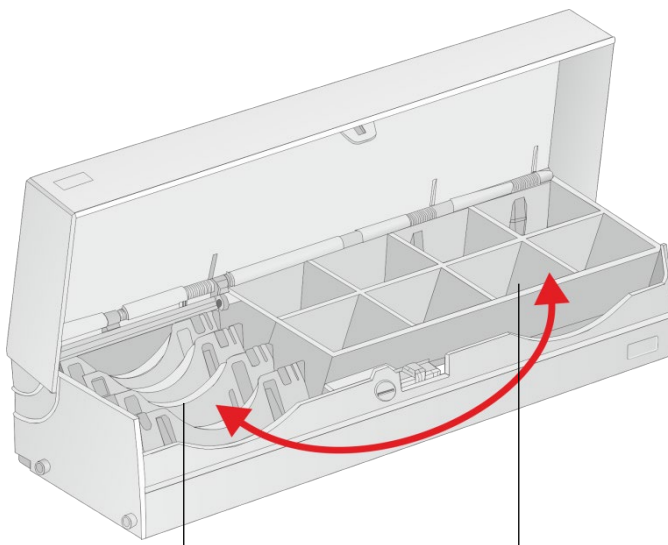
Available Variants

The following variants are available:

- Version with lock (1 tumbler arrangement)
The cash drawer can be opened either via the user software or via a mechanical lock with one tumbler arrangement.
This variant is supplied with a lockable security cover. All locks of the cash drawers with one tumbler arrangement are similar.
- Version with lock (30 tumbler arrangements)
The drawer of this model can be opened either via the user software or via a mechanical lock with up to 30 tumbler arrangements.
The variant is supplied with a lockable security cover.

The Money Compartments

The housing has a bank note compartment with four partitions, eight coin compartments and a compartment beneath the coin compartments for checks, large bank notes, rolls of coins and receipts.



bank note compartments

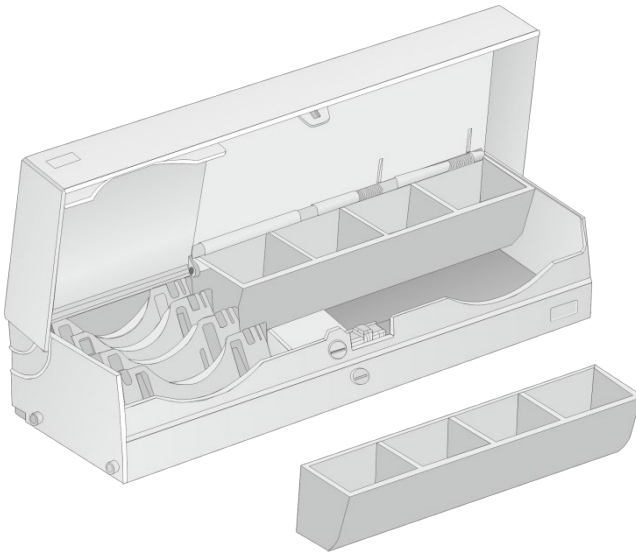
coin compartments

The bank note compartments on the left-hand side (see picture) are adjustable by means of removable dividers. These dividers are flexible and can be installed either vertically, thus allowing you to set the depth of the individual compartments. Spring-loaded pressure plates attached to the dividers press the bank notes toward the front so that it is easier to taking and putting the bank notes and provide for a better capacity.



Optionally the bank note compartments can be equipped with a protection cover. The cover is not part of the scope of delivery but can be ordered at Wincor Nixdorf.

To the right or the left of the bank note compartments are two coin trays with four coin compartments each. The coin trays are installed in the cash drawer one behind the other.



The fact that the trays are separated means that only the front tray need be removed to access the compartment beneath it.



Note that you always take out the coin compartments first and then the bank note box and inserting them in reverse order. Make sure that no bank notes left in the box when changing it.

Interface Box

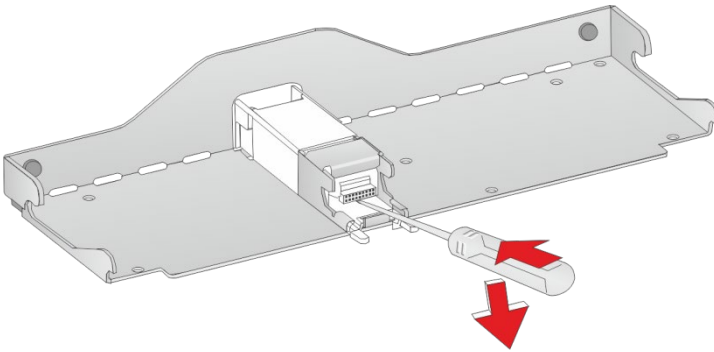
Loosen the Interface Box from the Base Plate

Loosen the interface box from the baseplate by a screwdriver (3mm).

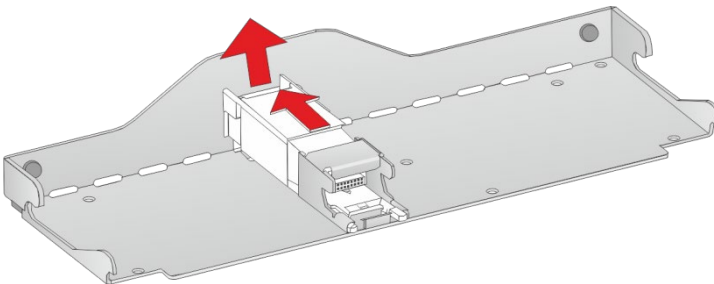


To avoid damaging the electronic control put the screwdriver into the hole underneath the plug until it reaches the back stop.

Thereby move the screwdriver downward in case of a movement upward, the plug could be damaged.



At the same time of moving the screwdriver push the interface box from the base plate to the rear and take it out.



Connection System

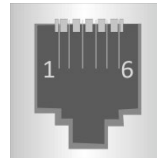
The electronic plug connector (base) is accommodated in a housing attached the base plate. This unit electronically controls the opening of the cash drawer.

The cash drawer is connected to the POS system by means of connecting cable plugged into a base plate with an installed interface box and a RJ12 connector (24V) located on the back of the drawer.

The electrical connection to the cash drawer is immediately established via a socket connector when the cash drawer is installed in the base plate.

PIN Assignment Base Plate 24V / RJ12 Connector

PIN	Description
1	Frame Ground
2	Opening pulse cash drawer
3	Status cash drawer
4	+24V DC
5	N.C.
6	Signal Ground



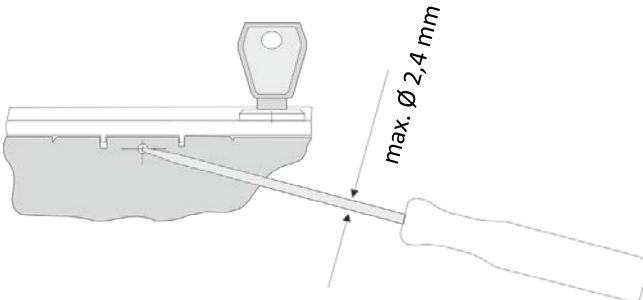
Appendix

Technical Data

Height open (75°)	102 mm 239 mm
Width	461 mm
Depth	163 mm
Weight	
KA21	2.7 kg
Base plate	1.6 kg
Interface 24V	
RJ12 jack power supply max. peak value	24V – 15%/ + 10% 1 A
Continuous opening pulse	40 ms to 200 ms

Mounting the Base Plate

Base plate and cash drawer are delivered separately. If the cash drawer is locked with the base plate and you would like to unlock this, press a screwdriver (diameter max. 2.4 mm) into the emergency opening bore hole on the underside of the drawer (see Fig.).



Bore holes on the base plate for fixing (see fig.):

Bore 1 -4: Fixing bore recommended by Wincor Nixdorf

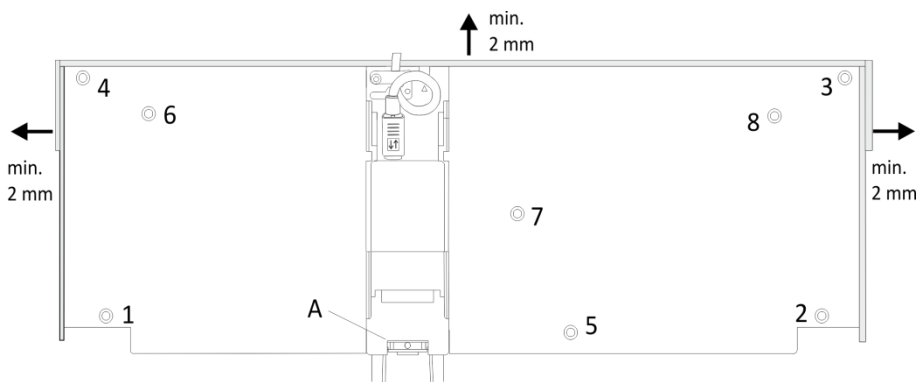
Bore 5 -8: Additional fixing holes

Emergency manual release A: Position of bore (with diameter of at least 8 mm)



Make sure to mount the base plate evenly and horizontally to the cash desk. In case there is still a gap/crack between the rear border of the base plate and the cash desk after the installation of the KA21, we recommend to seal it, e.g. with some silicone resin. So coins could not find their way into.

If you mount the KA21 on to a cash desk which is open to the bottom you should use cap nuts, thus preventing possible risk of injury.



min. 2 mm: Surrounding minimum distance to the base plate with sunk cash drawer

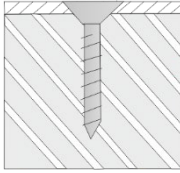


A bore hole (diameter 8 mm) may be drilled at position A (see Fig.) under the emergency opening in the checkout desk if your company permits access to the emergency opening of the KA21 with a screwdriver. The installation kit contains a M3 x 3 mm torx screw. Be sure to use only this type of screw.

Make sure beforehand that the emergency opening function is allowed.



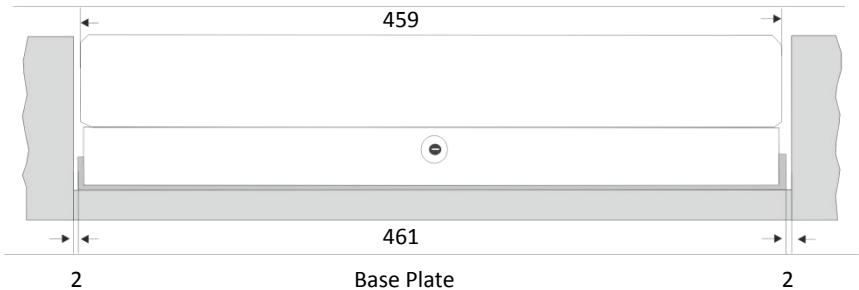
The screw heads (rivet heads) must not protrude from the base plate! Countersink the spacer element (see Fig.).



Check that the cash drawer latches and unlatches easily when in operation.



When installing the cash drawer in a recess of the checkout desk, make sure there is a gap of at least 2 mm around the drawer (see Fig.).

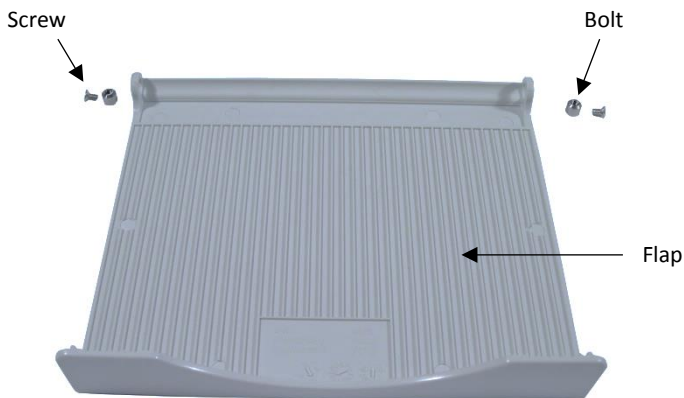


Connect the cash drawer to the BEETLE system.

Mounting the Flap for the Banknote Compartment of the KA21-5

As an additional security measure the KA21-5 may be equipped with a flap for the banknote compartment. The delivery unit consists of:

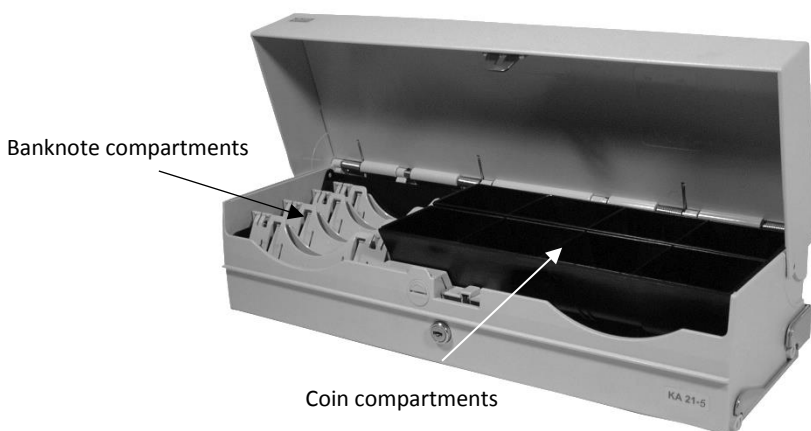
- 1 Banknote compartment flap
- 2 Threaded bolt
- 2 Countersunk screws M3 x 5



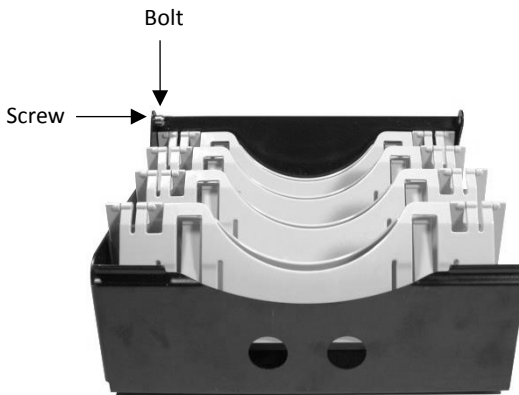
Flap for Banknote Compartment, Delivery Unit

Mounting the flap simply requires a (magnetised) TORX screwdriver T10. The moment of force for the screws is 70-80 Ncm.

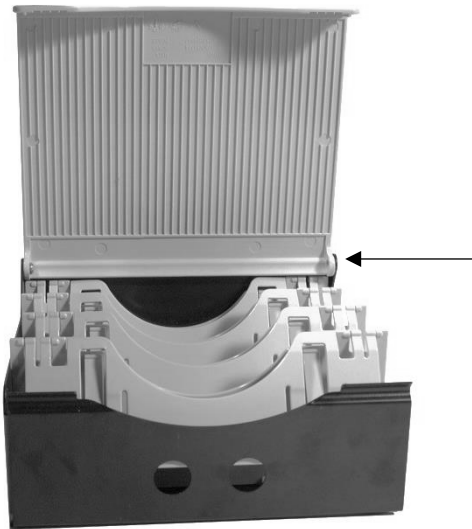
Remove the two coin compartments and then the banknote compartment.



Fasten one of the bolts with one of the screws in the left hole of the bank-note compartment. The slot at the head of the threaded bolt must point into the interior of the compartment.



Place the left hole of the flap over the bolt and then fasten the flap at the right side with the second bolt (head pointing into the interior) and the second screw.





Banknote compartment with mounted flap

Insert the banknote compartment with mounted flap into the KA21-5.



Finally, insert the two coin compartments.



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Order No.: **01750050189G**