



Code-Combi B

Vds-Cl. 2 - item number 82131 - standard

Operating instruction

Please read these instructions carefully before using the lock

Operating information:

- ✦ In case of correct use, every key press is followed by an acoustic signal
- ✦ The factory-default code is **1,2,3,4,5,6,7,8**. For security reason, change this code as soon as possible once the lock is installed. Do not use any personal or other well-known data as code.
- ✦ If an invalid code has been entered, the red LED flashes three times. Then the whole operation has to be repeated. After three successive invalid attempts, a manipulation blocking is triggered off (see 1).
- ✦ Every code input can be cancelled by pressing the **⏏**-key.
- ✦ An incorrect code input is indicated by a triple acoustic signal. This signal appears after the opening with a valid code (indicates that someone has tried to open respectively manipulate the lock)
- ✦ In the event of low battery (see 1), do not program any codes.
- ✦ After 20 seconds the electronic system shuts down automatically if no key has been pressed within this time. Unfinished operations have to be started again.
- ✦ The lock can be operated on a one-code mode (basic code) or a two-code mode (basic code and extra code). By operating the lock on a two-code mode, the owner of the basic code is entitled to program an additional code. Then the lock can be opened by using the basic or the extra code.
- ✦ **Only program the lock if it is unlocked and the safe is open.**
- ✦ **If the programmed code is not available, the lock can be opened with the revision key. Keep the revision key at a safe place, but not in the safe.**

Emergency power supply:

- ✦ In the event of an unloaded or detected battery the lock system does not include any emergency power supply from the outside. In this case the lock has to be opened with the revision key (see 11, K1).
- ✦ Keep the revision key at a safe place, but not in the safe.

General information:

- ✦ The lock can be used in a temperature range between + 10°C and + 50°C.
- ✦ Clean the key board only with a damp cloth (do not use any aggressive cleaner).
- ✦ Never open the lock case, because the lock might be damaged and your warranty expires. In case of dismounting components of the key board (for opening by key), follow exactly our operating instruction. Otherwise your warranty expires.

A) General operating information:

Every correct key press is followed by an acoustic signal. Please pay attention to the confirmation signals after every single input. These signals are not considered in the following description.

B) Opening with basic code (operation with only one code):

| Action: | Signal: |
|--|--------------------|
| (1) Press [P] | |
| (2) Enter correct 8-digit code | |
| (3) Turn knob clockwise within 4 seconds | 1 x "green" signal |

C) Changing of basic code (lock and safe door have to be open):

| | | |
|--|---|------------------|
| (1) Press [P] | Open the lock (see B)), open the door | |
| (2) Press [P] | | |
| (3) Enter correct 8-digit code | Constant "green" LED | |
| (4) Enter new 8-digit code | Acoustic double signal, constant "green" LED continues | |
| (5) Enter new 8-digit code again (for confirmation) | 1 x "green" signal | 3 x "red" signal |
| If an incorrect code has been entered/confirmed for the second time => start operation again from (1) | | |
| (6) Check new code while the safe door is open | | |
| => turn knob 90° anti-clockwise up to the blocking | | |
| (7) Open the lock (see B)) | | |

D) Closing:

| | |
|----------------------------------|--|
| (1) Shut the door | |
| (2) Turn knob 90° anti-clockwise | |
| (3) Lock is locked | |

E) Adding/changing of extra code by owner of basic (master) code:

| | | |
|--|---|------------------|
| (1) Press [P] | Open the lock (see B)) | |
| (2) Press [P] | | |
| (3) Enter 8-digit basic code | Constant "green" LED | |
| (4) Press [P] | Constant "green" LED continues | |
| (5) Press [P] (key „3“) | Constant "green" LED continues | |
| (6) Enter 8-digit extra code | Acoustic double signal, constant "green" LED | |
| (7) Enter 8-digit extra code again (for confirmation) | 1 x "green" signal | 3 x "red" signal |
| If an incorrect code has been entered/confirmed for the second time => start operation again from (1) | | |
| (8) Check new code while the safe door is open | | |
| => turn knob 90° anti-clockwise up to the blocking | | |
| (9) Open the lock (see F) (1) - (3)) | | |

F) Opening with basic or extra code

| | | |
|---|--|------------------------|
| (1) Press [P] | | 1 x "green" signal or |
| (2) Enter 8-digit basic or extra code | | 3 x "red/green" signal |
| * 3 x "red/green" signal indicates that the user of the other code has opened the safe before | | |
| (3) Turn knob clockwise within 4 seconds | | |

G) Changing of extra code by owner of extra code (lock and safe door have to be open):

| | | |
|--|---|------------------|
| (1) Press [P] | Open the lock (see F)), open the door | |
| (2) Press [P] | | |
| (3) Enter correct 8-digit extra code | Constant "green" LED | |
| (4) Enter new 8-digit extra code | Acoustic double signal, constant "green" LED continues | |
| (5) Enter new 8-digit extra code again (for confirmation) | 1 x "green" signal | 3 x "red" signal |
| If an incorrect code has been entered/confirmed for the second time => start operation again from (1) | | |
| (6) Check new code while the safe door is open | | |
| => turn knob 90° anti-clockwise up to the blocking | | |
| (7) Open the lock (see F)) | | |

H) Deleting of extra code by owner of basic code:

| | | |
|--------------------------------------|----------------------|--------------------|
| (1) Press [P] | | |
| (2) Press [P] | | |
| (3) Enter correct 8-digit basic code | Constant "green" LED | |
| (4) Press [P] | | |
| (5) Press [P] (key „0“) | | 1 x "green" signal |

I) Opening during resp. after lock-out time (manipulation blocking):

| | |
|--|--|
| (1) After 3 incorrect code inputs starts a lock-out time of 1 minute (during the lock-out time no further inputs are possible) | "Red" signal (every second) for 1 minute |
| (2) After the end of the lock-out time the red signal stops | No signal |
| (3) Press [P] | 3 x acoustic signal as indication that an incorrect code has been entered, then 1 x "green" signal |
| (4) Enter correct 8-digit code | |
| * Lock is ready for being opened | |
| (5) After another incorrect code input a prolongation of the lock-out time for 2,4,8, and max. 16 minutes follows | "Red" signal (every second) for 2,4,8, or max. 16 minutes |
| (6) The lock-out time can be passed over with the revision key (see J1), K1) | "Red" signal (every second) for 2,4,8, or max. 16 minutes |
| (7) New programming is only possible after the end of the lock-out time (see J2), K3) | |

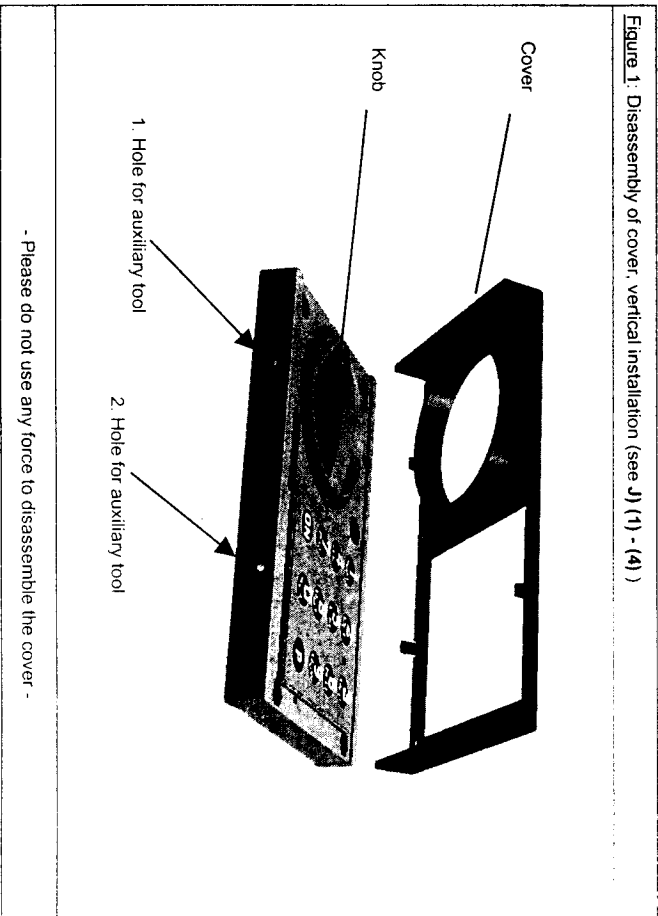
J) Makrolon fitting

J1) Revision opening with key (opening without code)

To lay open the keyhole, the dark cover of the fitting has to be removed. Two round holes are at the bottom side (in case of horizontal installation) respectively on the right side (in case of vertical installation) of the fitting (see figure 1).

Notice: The lock recognises the remove of the cover as manipulation attempt. So during operation every code input is followed by an alarm signal. After a key opening this alarm signal has to be neutralised according to (13a) - (13e).

| | | |
|-----|---|--|
| (1) | Put an auxiliary tool (e.g. paper clip) in the right hole (in case of horizontal installation) resp. the upper hole (in case of vertical installation) and press carefully to get the clip connection off | |
| (2) | Keep the auxiliary tool pressed while the fitting cover is carefully lifted | |
| (3) | Repeat this operation at the second hole | |
| (4) | Remove cover carefully now | Constant acoustic signal, "red/green" LED flashes alternately |



| | |
|-----|--|
| (5) | Withdraw knob and drive shaft (square) |
| (6) | Insert key (long bit on the left side) and open the lock (turn key about 180° clockwise, key is not withdrawable in this position) |
| (7) | Open the door and close it after using the safe |

| | | |
|-------|--|----------------------|
| (8) | Turn key back (180° anti-clockwise) | |
| (9) | Withdraw key and keep it at a safe place (not in the same safe) | |
| (10) | Insert drive shaft (square) with drilling in front | |
| (11) | Put knob back (knob in horizontal position) | |
| (12) | Put cover back and re-fasten it | |
| (13) | Alarm neutralising (can only be done by the owner of the basic code) | |
| (13a) | Press FN | |
| (13b) | Press P | |
| (13c) | Enter correct 8-digit basic code | Constant "green" LED |
| (13d) | Press P | Constant "green" LED |
| (13e) | Press 9 (key "9") | 1x "green" signal |

J2) Changing of basic code with key (revision opening if opening code is not available)

If the lock-out time is activated, a new code cannot be programmed. Please wait until the lock-out time is over before you program a new code. Change the basic code only if the lock is unlocked and the safe door is open. If an extra code was programmed before, it is also valid after the key opening.

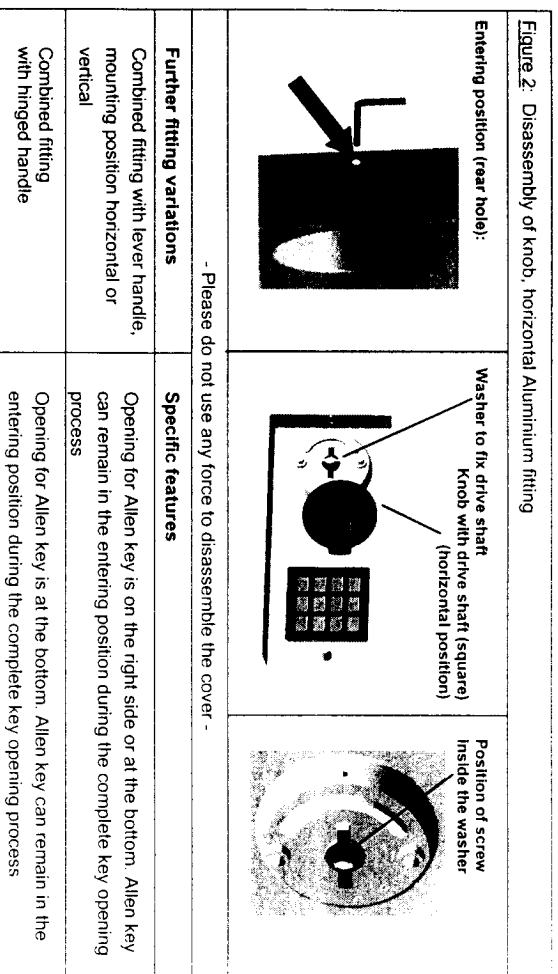
| | | |
|------|---|---|
| (1) | Key opening (see J1) (1) - (5)) | "Red" signal every second |
| (2) | If necessary wait until lock-out time is over | |
| (3) | Mount cover again (only cover, without knob) | |
| (4) | Insert key and open the lock (turn key about 180° clockwise, key is not withdrawable in this position) | |
| (5) | Open the door | |
| (6) | Press FN | |
| (7) | Press P | Constant "green" LED |
| (8) | Enter new 8-digit code | Acoustic double signal, constant "green" LED continues |
| (9) | Enter new 8-digit code again (for confirmation) | 1 x "green" signal |
| (10) | Turn key back (about 180° anti-clockwise) | |
| (11) | Withdraw key and keep it at a safe place (but not in the same safe) | |
| (12) | Remove cover with the help of an auxiliary tool (see J1) (1) - (4)) | |
| (13) | Finish key opening (see J1) (10) - (13e)) | |
| (14) | Check new code while the safe door is open => turn knob 90° anti-clockwise up to the blocking | |
| (15) | Open the lock (see B)) | |

K) Aluminium fitting

K1) Revision opening with key (opening without code)

To lay open the keyhole, the anthracite knob has to be removed and the washer inside the fitting has to be moved into a position in which the key can be inserted. Please follow the following description

Figure 2: Disassembly of knob, horizontal Aluminium fitting



| Further fitting variations | Specific features |
|---|--|
| Combined fitting with lever handle, mounting position horizontal or vertical | Opening for Allen key is on the right side or at the bottom. Allen key can remain in the entering position during the complete key opening process |
| Combined fitting with hinged handle | Opening for Allen key is at the bottom. Allen key can remain in the entering position during the complete key opening process |
| (1) Put Allen key into the rear hole (see figure 2) | |
| (2) Open screw inside the fitting by turning Allen key anti-clockwise. Do not loosen screw completely | |
| (3) Withdraw knob with fixed drive shaft (square) | |
| (4) If the washer covers the key hole, take out Allen key. If the key hole is completely open, Allen key can remain in the rear hole | |
| (5) In case that the washer covers the key hole, the washer has to be moved with help of the knob. The key can only be inserted, if the key hole is completely open | |
| (6) Insert key (long bit on the left side) and open the lock (turn key about 180° clockwise, key is not withdrawable in this position) | |
| (7) Open the door and close it after using the safe | |
| (8) Turn key back (180° anti-clockwise) | |
| (9) If necessary, the washer has to be moved once again (for example by use of Allen key) to make sure that the key can be taken out. Withdraw key and keep it at a safe place (but not in the same safe) | |
| (10) Move washer with help of the knob and drive shaft (square) to its original position (the screw inside the washer has to be positioned at the side of the Allen key hole) | |
| (11) Put on knob with drive shaft (square) in horizontal position. Attention: the screw inside the knob has to be on the same side as the holes in the fitting | |

| | |
|--|--|
| (12) Use Allen key (rear hole) and turn screw carefully clockwise (fixing of knob) | |
| (13) Take out Allen key | |

K2) Neutralisation of alarm signal

If the Aluminium fitting has been completely removed, the control unit of the lock realises and records this. After a remove of the fitting a corresponding signal lights up every time the lock is opened with a valid code (see **M) description of lock signals**). Only the owner of the basic code can neutralise this alarm signal

| | |
|----------------------------------|----------------------|
| (1) Press ↵ | |
| (2) Press P | |
| (3) Enter new 8-digit basic code | Constant "green" LED |
| (4) Press P | Constant "green" LED |
| (5) Press 9 (key „9“) | 1x "green" signal |


K3) Changing of basic code with key (revision opening if opening code is not available)

If the lock-out time is activated, a new code cannot be programmed. In this case you have to wait until the lock-out time is over before you can program a new code. Change the basic code only if the lock is unlocked and the safe door is open. If an extra code was programmed before, it is also valid after the key opening


| | |
|--|--|
| (1) Key opening (see K1) (1) - (5)) | "Red" signal every second |
| (2) If necessary, wait until lock-out time is over | |
| (3) Insert key and open the lock (turn key about 180° clockwise, key is not withdrawable in this position) | |
| (4) Open the door of the safe | |
| (5) Press ↵ | |
| (6) Press P | Constant "green" LED |
| (7) Enter new 8-digit basic code | Acoustic double signal, constant "green" LED continues |
| (8) Enter new 8-digit basic code again (for confirmation) | 1 x "green" signal |
| (9) Turn key back (about 180° anti-clockwise) | |
| (10) Finish key opening (see K1) (9) - (13)) | |
| (11) Check new code while the safe door is open => turn knob 90° anti-clockwise up to the blocking | |
| (12) Open the lock (see B) | |

L) Power supply

The lock requires a 9 Volt Alkali/Manganese or Lithium battery.

Low battery is indicated by the red LED. It flashes 10 times if the -key has been pressed. The lock will continue to operate for a maximum of 50 openings (attention: if the battery won't be changed for a long period of time, the number of openings can be less due to the self-discharge of the battery). Replace the battery immediately. In case of low battery indication, do not program any codes.

Low battery indication:

| | | |
|-----|---|-------------------|
| (1) | After  -key is pressed | 10 x "red" signal |
| (2) | Replace battery immediately | |

Changing of battery:

The battery is placed inside the safe in a special battery box. Move the drawer in direction of the marked arrow and pull it completely out off the battery box.

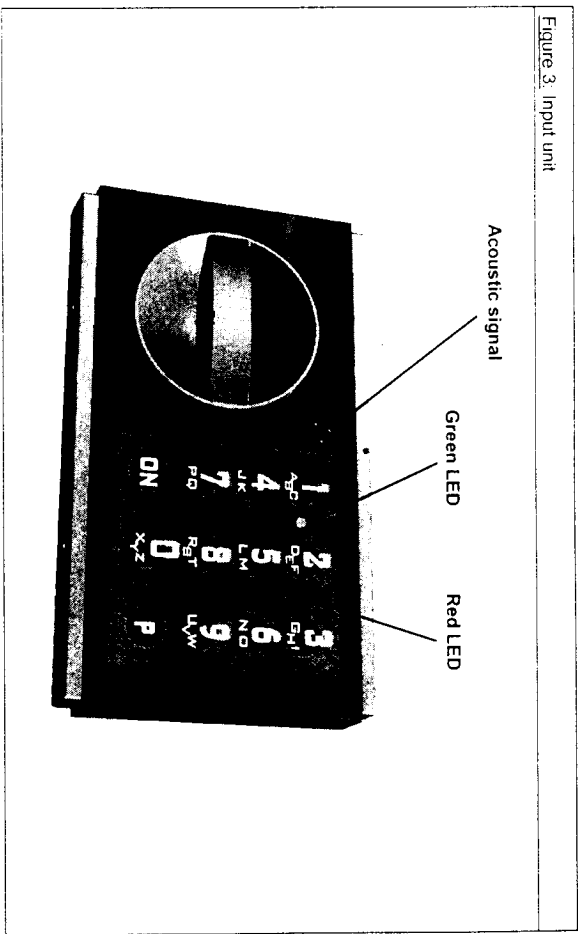
Take out the battery and install a new one as shown by the markings printed on the drawer bottom. Push the drawer back. Please check if the drawer is clipped correctly in the box.


Emergency power supply:

In the event of an unloaded or defected battery the lock system does not include any emergency power supply from the outside. In this case the lock has to be opened with the revision key (see J1), K1).

Keep the revision key at a safe place, but not in the safe.

M) Legend



| Signal | Description | Measures to be taken |
|---|---|--|
| Red LED flashes in one-second cycles for at least one minute (or 2, 4, 8, max. 16 minutes) | Lock-out time | Wait until lock-out time is over, see J), J), and K) |
| Red LED flashes 10 x after pressing  key | Low battery | Replace the battery, see L) |
| Red LED flashes 3 x | Incorrect code has been entered | Re-enter the correct code |
| Red/green LED flashes 3 x alternately | The lock is operated with two codes. The signal shows that the other code was used for opening before | See F) |
| Green LED flashes 1 x | Correct code has been entered | Open the lock |
| Constant green LED | Lock is ready for being programmed | See C), E), G), H), J), and K) |
| Acoustic signal sounds 3 x | Indicates opening attempt with invalid code | See J), and operating information page1) |
| Constant acoustic signal and red/green LED flashes 8 x alternately | Cover has been removed for a key opening or manipulation attempt | Neutralise signal, see J1), and K2) from (13) on, if necessary inform security officer |

Mounting instruction



Code-Combi B

VdS-CI 2 - Article-No. 82131 - Standard

A) General information:

- Changes at the lock or the fitting can cause malfunctions. Therefore any changes are not allowed.
- Use only high quality Alkaline/Manganese or Lithium batteries.
- Remaining humidity or gases (e.g. from lacquering of the safe) should be avoided. They could damage the control unit of the lock.
- Make sure that dirt (e.g. remaining parts of isolation plates) or cleaner cannot get inside the lock.

B) Information on lock mounting:

- The lock can be mounted in locking position "left" (for right hand doors) or in position "down".
- The lock is suitable for steel safes. Please contact us, if you would like to install the lock in safes of different material.
- Take care that the bolt can easily be moved after the lock has been mounted.
- For the mounting of the lock M6 cylinder head screws have to be used.
- We recommend to install a kind of drilling protection for the lock.

C) Information on fitting mounting/Mauer-fitting (98851/52):

- There are two possibilities of mounting the fitting:
 - 1) Fixing from inside the door with 4 M4 screws and 4 M4 nuts which have to be placed in the fitting. The length of the screws depends on the door thickness. The screws do not belong to the delivery.
 - 2) Fixing from outside the door with 4 M4x12 mm screws. The length of the screws depends on the door thickness. The screws do not belong to the delivery.
- Length of drive shaft: the necessary lengths results from "distance between mounting level of the lock and mounting level of the fitting" + "40 mm" (tolerance: - 0,5 mm)

D) Adjustment/final inspection:

- Avoid any force by mounting lock and fitting. Careful handling will help to have a perfect working lock.
- The adjustment is correct if the knob, after turning it about 40°, jumps back to vertical position. After turning the knob up to the blocking it can stay in this position.
- Apply our operating instructions for checking the functions of the lock.

E) Information on cable laying:

- The connector have to be fitted as follows:

| Sign on the lock case | Connection for: |
|-----------------------|---------------------------|
| Sign "1" | Cable to fitting |
| Sign "2" | Voltage (battery housing) |

- After connecting the connectors, check if they have correctly been clipped.
- If during installation the connectors have been mixed up by mistake, the electronic cannot be damaged. In this case the lock does not work and the connection has to be done in the correct way as described in the table above.
- To disconnect the connectors: Do not directly pull at the cable! To disconnect the connector, first the plastic clip at the connector as to be refastened by pushing it against the connector housing. In a second step the connector has to be removed by taking hold of the connector housing (do not pull at the cable).
- During installation the cable covering or the cable conductor must not be damaged! In case of cable damage a short circuit or loose contact can arise and the function of the lock cannot be guaranteed.
- To avoid any damaged cables, make sure that the cable does not get contact with sharp edges. Take care while pulling the cable through the door housing. We recommend to use an additional isolation of the cable, e.g. a shaft casing or a plastic tube. Furthermore the cable must not be fixed in a bent position e.g. fastened with a cord or stuck onto a base.

F) Installation sketches:

