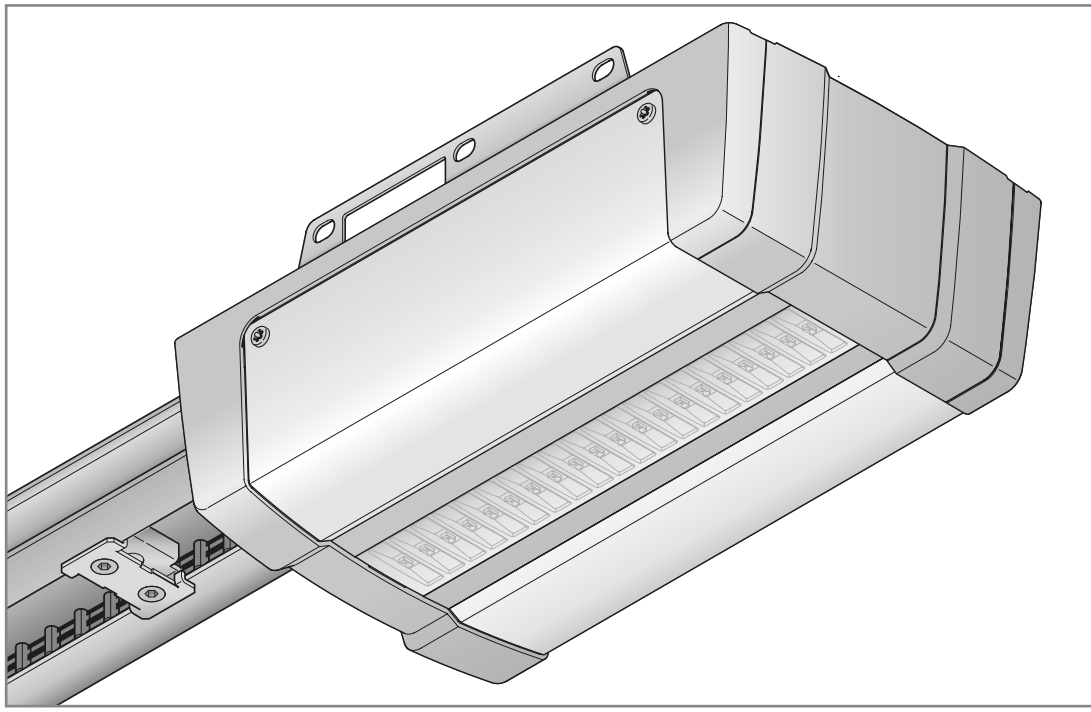


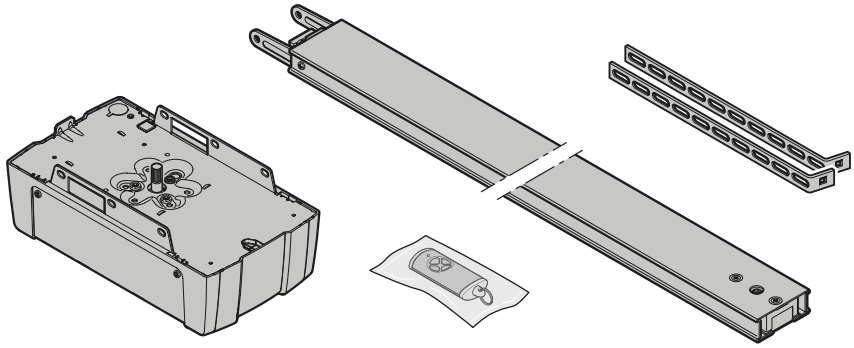
EN

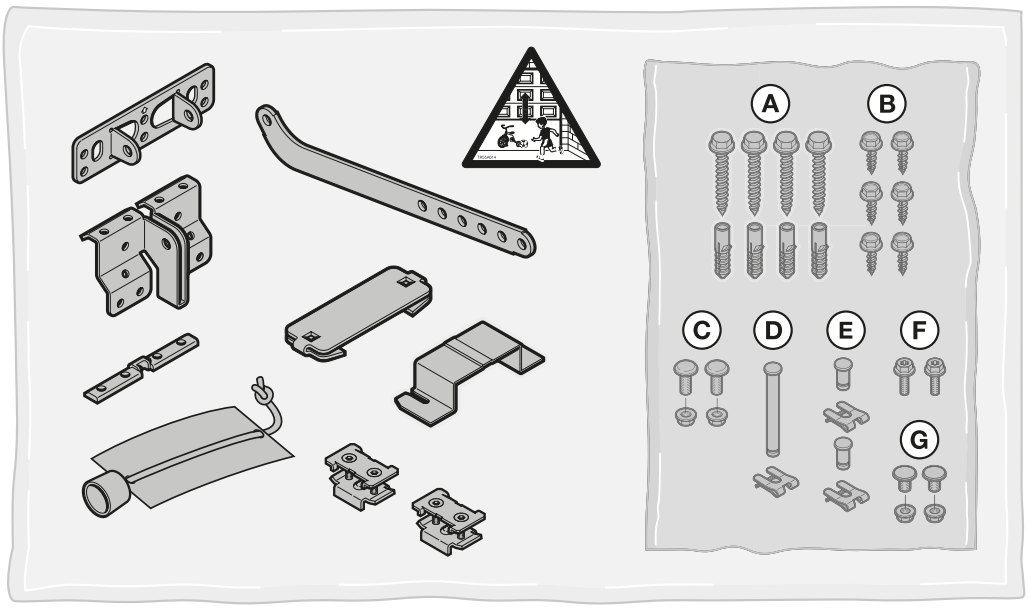
Instructions for fitting, operating and maintenance
Garage door operator

TR10A360-B RE / 10.2020

HÖRMANN

A





B



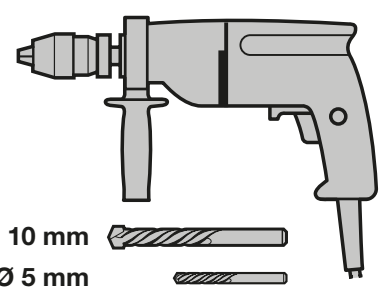


13 mm



10 mm





T 30



Ø 10 mm

Ø 5 mm

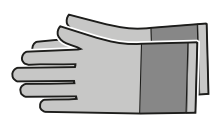
T 20



Ø 3 mm

4 mm







CONTENTS

1 About these instructions 4
1.1 Further applicable documents 4
1.2 Warnings used 4
1.3 Definitions used 4
1.4 Symbols used 5
1.5 Abbreviations used 6

2 ⚠ Safety instructions 6
2.1 Intended use 6
2.2 Non-intended use 6
2.3 Fitter qualification 6
2.4 Safety instructions for fitting, maintenance, repair and disassembly 7
2.5 Safety instructions for fitting 7
2.6 Safety instructions for installation 7
2.7 Safety instructions for initial start-up and for operation 7
2.8 Safety instructions for using the hand transmitter 8
2.9 Approved safety equipment 8

3 Fitting 8
3.1 Testing the door system 8
3.2 Clearance required 9
3.3 Fitting the garage door operator 9
3.4 Fitting the boom 18
3.5 Determining the end-of-travel positions 23
3.6 Emergency release 25

4 Installation 26
4.1 Connecting terminals 26
4.2 Connecting accessories 26

5 Initial start-up 30
5.1 Teaching in the operator 30

6 Menus 33
6.1 Menu description 34

7 Final work 43
7.1 Fixing the warning sign 43
7.2 Function test 44

8 Hand transmitter HSE 4 BiSecur 44
8.1 Changing the battery 45
8.2 Hand transmitter operation 45
8.3 Inheriting/transmitting a radio code 45
8.4 Hand transmitter reset 46
8.5 LED display 46
8.6 Cleaning the hand transmitter 46
8.7 Disposing of electrical and electronic devices 46
8.8 Disposing of batteries 46
8.9 Technical data 46
8.10 EU declaration of conformity for the hand transmitter 46

9 Bluetooth® 47
9.1 BlueSecur application (app) 47
9.2 Enabling / disabling Bluetooth® 47
9.3 Configuring Bluetooth® 47
9.4 Operation 48
9.5 Keys 48
9.6 External Bluetooth antenna 49
9.7 EU Declaration of Conformity for Bluetooth Receivers 49
9.8 Open source license 49

10 External receivers* 49
10.1 Radio receiver ESE BiSecur 49
10.2 Teaching in a radio code on the external radio receiver 49
10.3 EU Declaration of Conformity for Receivers 49

11 Operation 50
11.1 Instructing users 50
11.2 Functions of various radio codes 51
11.3 Garage door operator behaviour after 3 fast OPEN door runs in a row 52
11.4 Behaviour during a power failure (without an emergency battery) 52
11.5 Behaviour after the power returns (without emergency battery) 52
11.6 Reference run 52

12 Inspection and maintenance 52
12.1 Tension of the toothed belt 53
12.2 Checking safety reversal / reversing 53
12.3 Change the light module 53

13 Dismantling and disposal 53
13.1 Disposing of the packaging 53
13.2 Disposing of electrical and electronic devices 53

14 Warranty conditions 53

15 EC / EU Declaration of Conformity / Declaration of Incorporation 54

16 Technical data 55

17 Displaying errors, warnings and operating modes 56
17.1 Operator light messages 56
17.2 Display of errors and warnings 56

18 Operating condition display 58

19 Menu and programming overview 58

Dissemination as well as duplication of this document and the use and communication of its content are prohibited unless explicitly permitted. Noncompliance will result in damage compensation obligations. All rights reserved in the event of patent, utility model or design model registration. Subject to changes.

App Store℠ is a brand of Apple Inc.
Google™ Play is a brand of Google Inc.

Dear Customer,

We thank you for choosing a quality product from our company.

1 About these instructions

These instructions are **original operating instructions** as outlined in EC Directive 2006/42/EC.

These instructions contain important information on the product.

- ▶ Read through all of the instructions carefully.
- ▶ Please observe the information. Please pay particular attention to the safety instructions and warnings.
- ▶ Keep these instructions in a safe place for later reference.
- ▶ Make sure that these instructions are available to the user at all times.

1.1 Further applicable documents

The following documents for safe handling and maintenance of the door system must be placed at the disposal of the end user:

- These instructions
- The enclosed log book
- The garage door operating instructions

1.2 Warnings used

⚠ The general warning symbol indicates a danger that can lead to **injury** or **death**. In the text, the general warning symbol will be used in connection with the caution levels described below. In the illustrated section, an additional instruction refers back to the explanation in the text section.

⚠ DANGER

Indicates a danger that immediately results in death or serious injuries.

⚠ WARNING

Indicates a danger that can lead to death or serious injuries.

⚠ CAUTION

Indicates a danger that can lead to minor or moderate injuries.

ATTENTION

Indicates a danger that can lead to **damage** or **destruction of the product**.

1.3 Definitions used

Hold-open phase

Waiting time for the automatic timer before the door closes from the OPEN end-of-travel position or partial opening.

Automatic timer

After the set hold-open phase and pre-warning phase lapse, the door automatically closes from the OPEN end-of-travel position or partial opening.

Impulse sequence control

The taught-in Impulse radio code or a button triggers impulse sequence control. With each actuation, the door is started against the previous direction of travel, or the door run is stopped.

Learning runs

Door runs during which the operator learns the following:

- Travel distances
- Forces that are required to move the door

Ventilation

During ventilation, the upper section is folded down or the door is lifted slightly to allow air to circulate.

Normal operation

Normal operation is a door run with taught-in travel distances and forces.

Reference run

Door run towards the OPEN end-of-travel position at a lower speed in order to set the home position.

Safety reversal / reversing

Door run in the opposite direction when the safety device or power limit is activated.

Reversal limit

The reversal limit is shortly before the CLOSE end-of-travel position. If a safety device is activated, the door runs in the opposite direction (safety reversal). This behaviour does not exist within the reversal limit.

Slow travel

The area in which the door moves extremely slowly to softly approach the end-of-travel position.

Status

The current position of a door.

Partial opening

Individually adjustable second opening height.

Timeout

A defined time period within which an action is expected, e.g. menu selection or function activation. If this time period has elapsed without an action, the operator automatically switches back.

Door system

A door with the associated operator.

Doors under thermal load

Doors fitted to the south side, for example, and thus subjected to more sunlight. These doors could expand and may require more space below the ceiling.

Travel

The distance the door takes from the OPEN end-of-travel position to the CLOSE end-of-travel position.

Pre-warning time

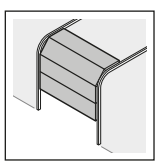
The time between the travel command (impulse) and the start of travel.

Factory reset

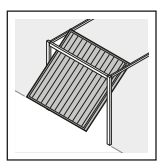
Resetting of the taught-in values to the delivery condition / factory setting.

1.4 Symbols used

The illustrated section shows how to fit the operator on a sectional door. Deviations for fitting with an up-and-over door are also shown. For this purpose, the following letters are assigned to the figures:



a = Sectional door



b = Up-and-over door

All specified dimensions in the illustrated section are in [mm].

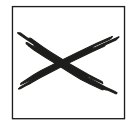
Icons



Important notice to prevent injury to persons and damage to property



Permissible arrangement or activity



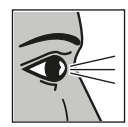
Non-permissible arrangement or activity



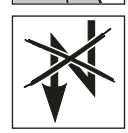
High exertion of force



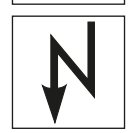
Little force required



Inspect



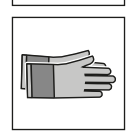
Power failure



Power restoration



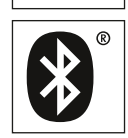
Check for smooth running



Use protective gloves



Factory setting

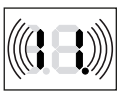


The Bluetooth® word mark and logos are registered trademarks of Bluetooth SIG, Inc., and are used by Hörmann KG Verkaufsgesellschaft under licence. Other trademarks and brand names are the property of their respective owners.

7-segment display


Display is illuminated


Display flashes slowly


Display flashes quickly


Decimal flashes

1.5 Abbreviations used

Colour code for cables, single conductors and components			
The colour abbreviations for cable and strand identification and for components conform to the international colour code in accordance with IEC 60757:			
WH	White	**BK**	Black
BN	Brown	**BU**	Blue
GN	Green	**OG**	Orange
YE	Yellow	**RD / BU**	Red / blue

Article designations	
HSE 4 BiSecur	4-button hand transmitter
ESE BiSecur	Bi-directional receiver
IT 1b-1	Internal push button with illuminated impulse button
IT 3b-1 / PB 3	Internal push button with illuminated impulse button, additional buttons for light on/off and lock/unlock operator
EL 101 /EL 301	One-way photocell
HOR 1-HCP	Option relay
UAP 1-HCP	Universal adapter print
SLK	LED warning light, yellow
SKS	Activating kit for closing edge safety device
STK	Wicket door contact
VL	Activating kit for leading photocell
HNA 18-4	Emergency battery

2 ⚠ Safety instructions

ATTENTION:

IMPORTANT SAFETY INSTRUCTIONS.

FOR THE SAFETY OF PERSONS, IT IS IMPORTANT TO COMPLY WITH THE FOLLOWING INSTRUCTIONS. THESE INSTRUCTIONS MUST BE KEPT.

For undated references to standards, directives etc. referred to here, the latest version of the publication applies, including any amendments.

2.1 Intended use

The garage door operator is intended for the impulse operation of spring-balanced and counterbalanced garage doors. Depending on the operator type, the operator can be used in the private/non-commercial or commercial sector (e.g. underground car parks and collective garages).

Note the manufacturer specifications regarding the door and operator combination. Potential hazards as outlined in DIN EN 13241-1 are avoided by construction and fitting according to our guidelines.

The garage door operator is designed for operation in dry areas.

2.2 Non-intended use

The operator must not be used for doors without a safety catch.

Door systems that are located in a public area and which only have one protective device, such as a power limit, may only be operated under supervision.

2.3 Fitter qualification

Only correct fitting and maintenance in compliance with the instructions by a competent/specialist company or a competent/qualified person ensures safe and flawless operation of the system.

According to EN 12635, a specialist is a person with suitable training, specialist knowledge and practical experience sufficient to correctly and safely fit, test and maintain a door system.

2.4 Safety instructions for fitting, maintenance, repair and disassembly

⚠ DANGER

Compensating springs are under high tension

- See warning in section 3.1

⚠ WARNING

Danger of injury due to unexpected door run

- See warning in section 12

Fitting, maintenance, repairs and disassembly of the door system and garage door operator must be performed by a specialist.

- In the event of a failure of the garage door operator, a specialist must be commissioned immediately to perform an inspection or carry out repairs.

2.5 Safety instructions for fitting

The specialist carrying out the work must follow the prevailing national job safety rules and regulations and those governing the operation of electrical equipment. In the process, the relevant national guidelines must be observed. Potential hazards as outlined in EN 13241-1 are avoided by construction and fitting according to our guidelines.
After fitting is complete, the specialist must declare conformity in accordance with EN 13241-1 based on the area of application.

⚠ WARNING

Unsuitable fixing material

- See warning in section 3.3

Danger to life from the pull rope

- See warning in section 3.3

Danger of injury due to unwanted door travel

- See warning in section 3.3

ATTENTION

Damage caused by dirt

Drilling dust and chippings can lead to malfunctions.

- Cover the operator during drilling work.

2.6 Safety instructions for installation



⚠ DANGER

Risk of deadly electric shock from mains voltage

Contact with the mains voltage presents the danger of a deadly electric shock.

- Electrical connections may only be made by a qualified electrician.
- Make sure that the on-site electrical installation conforms to the respective, applicable protective regulations (230 / 240 V AC, 50 / 60 Hz).
- If the mains connection cable is damaged, it must be exchanged by a qualified electrician to avoid danger.
- Before performing work on the system, disconnect the mains plug **and** the plug of the emergency battery.
- Safeguard the system against being switched on again without authorisation.

ATTENTION

Malfunctions in the connection cables

Connection cables and supply cables laid together can result in malfunctions.

- Duct the operator's connection cables (24 V DC) in an installation system that is separate from the supply lines (230 / 240 V AC).

External voltage at the connecting terminals

External voltage on the connecting terminals of the control will destroy the electronics.

- Do not apply any mains voltage (230 / 240 V AC) to the connecting terminals of the control.

2.7 Safety instructions for initial start-up and for operation

⚠ WARNING

Danger of injury during door travel

- See warning in section 11

Danger of injury due to a fast-closing door

- See warning in section 11.1.1

⚠ CAUTION

Danger of injury due to incorrectly selected door type
- ▶ See warning in section 5.1

Danger of crushing in the boom
- ▶ See warning in section 11

Danger of injury from the cord knob
- ▶ See warning in section 11

Danger of injury resulting from uncontrolled door travel in the Close direction if one of the counterbalance springs breaks and the slide carriage is released.
- ▶ See warning in section 11

2.8 Safety instructions for using the hand transmitter

⚠ WARNING

Danger of injury during door travel
- ▶ See warning in section 8

Risk of explosion due to incorrect battery type
- ▶ See warning in section 8.1

⚠ CAUTION

Danger of injuries due to unintended door run
- ▶ See warning in section 8

Danger of burns from the hand transmitter
- ▶ See warning in section 8

2.9 Approved safety equipment

The following functions or components, where available, meet cat. 2, PL “c” in accordance with EN ISO 13849-1 and were constructed and tested accordingly:

- Internal power limit
- Tested safety equipment

If such properties are needed for other functions or components, this must be tested individually.

⚠ WARNING

Danger of injuries due to faulty safety equipment
- ▶ See warning in section 7.2

3 Fitting

ATTENTION:

IMPORTANT INSTRUCTIONS FOR SAFE FITTING.

FOLLOW ALL INSTRUCTIONS; INCORRECT FITTING CAN LEAD TO SERIOUS INJURIES.

3.1 Testing the door system

⚠ DANGER

Compensating springs are under high tension

Serious injuries may occur while adjusting or loosening the compensating springs!
- ▶ For your own safety, only have a specialist conduct work on the compensating springs of the door and, if required, maintenance and repair work!
- ▶ Never try to replace, adjust, repair or reposition the compensating springs for the counterbalance of the door or the spring mountings yourself.
- ▶ In addition, check the entire door system (joints, door bearings, cables, springs and fastenings) for wear and possible damage.
- ▶ Check for the presence of rust, corrosion, and cracks.

A malfunction in the door system or incorrectly aligned doors can cause serious injuries!
- ▶ Do not use the door system if repair or adjustment work must be conducted!

The operator is not designed for the operation of sluggish doors. These doors are either difficult or impossible to open or close manually.

The door must be in a flawless mechanical condition, as well as correctly balanced, so that it can be easily operated by hand (EN 12604).
- ▶ Check whether the door can be opened and closed correctly.
- ▶ Lift the door by approx. one metre and let it go. The door should stay in this position and neither move downward nor upward! If the door does move in either direction, there is a danger that the compensating springs/weights are not properly adjusted or are defective. In this case, increased wear and malfunctioning of the door system can be expected.

3.2 Clearance required

The clearance between the highest point of door travel and the ceiling (even when opening the door) must be **at least 30 mm**. For doors under thermal loads, the operator is to be fitted 40 mm higher if applicable.

If the clearance is smaller, the operator can also be mounted behind the opened door if enough space is available. In this case, an extended link bracket (ordered separately) must be used.

The garage door operator can be arranged up to max. 500 mm off-centre. Sectional doors with a high lift track application (track application H) present an exception and require a special fitting.

The electrical outlet should be fitted approx. 500 mm from the operator head.

- ▶ Check the dimensions!

3.3 Fitting the garage door operator

⚠ WARNING

Unsuitable fixing material

Use of unsuitable fixing material may mean that the operator is insecurely attached and could come loose.

- ▶ The fitter must check the suitability of the provided fixing material (plugs) for use in the intended fitting location; other fixing material must be used if the provided fixing material is suitable for concrete (≥ B15), but is not officially approved (see Figures **1.6a/1.8b/2.4**).

⚠ WARNING

Danger to life from the pull rope

A running rope may lead to strangulation.

- ▶ Remove the rope while fitting the operator (see Figure **1.3a**).

⚠ WARNING

Danger of injury due to unwanted door travel

Incorrect assembly or handling of the operator may trigger unwanted door travel that may result in persons or objects being trapped.

- ▶ Follow all the instructions provided in this manual.

Incorrectly fitted control devices (e.g. buttons) may trigger unwanted door travel. Persons or objects may be jammed as a result.



- ▶ Install control devices at a height of at least 1.5 m (out of the reach of children).
- ▶ Fit permanently installed control devices (such as buttons, etc.) within sight of the door, but away from moving parts.

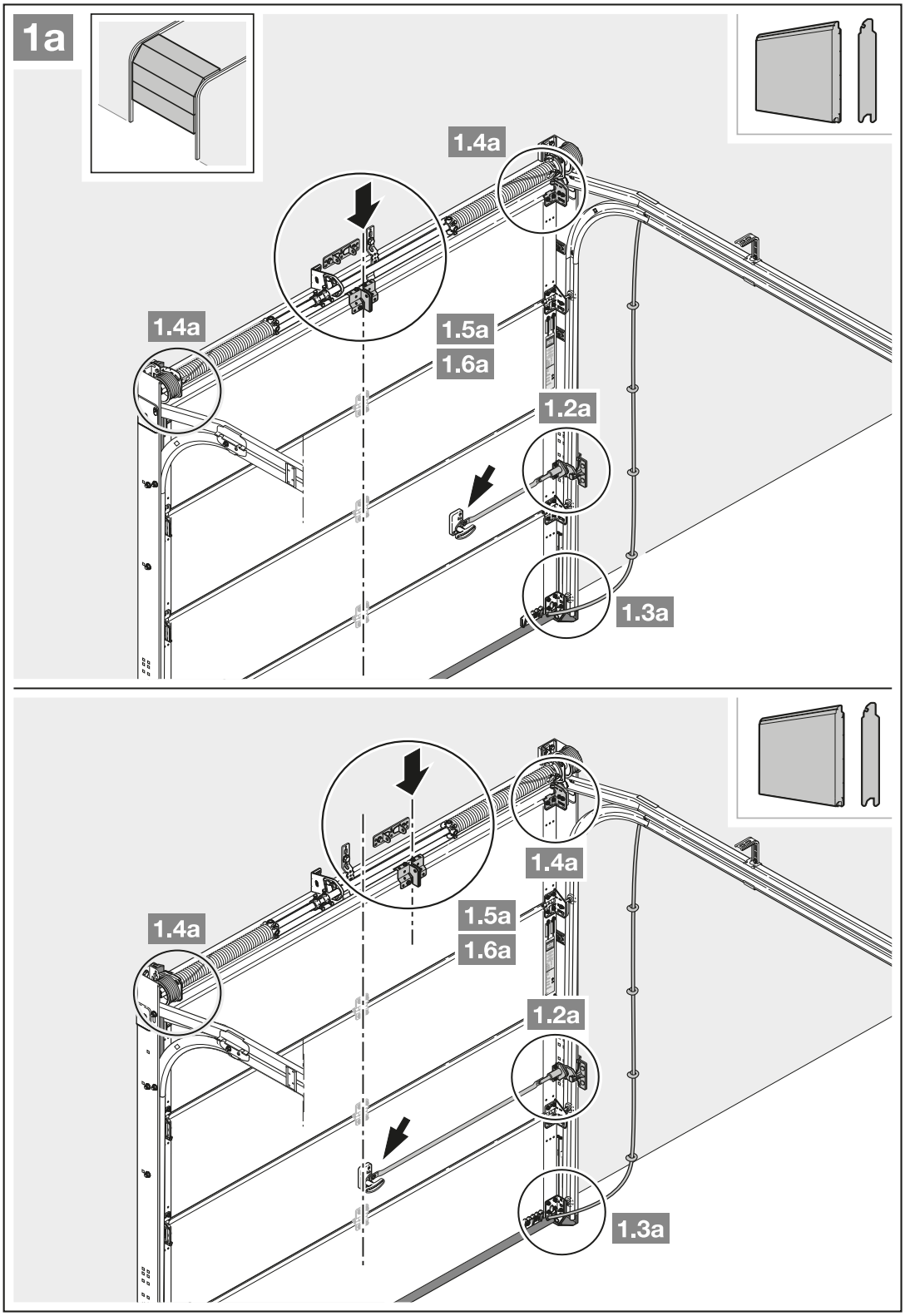
ATTENTION

Damage caused by dirt

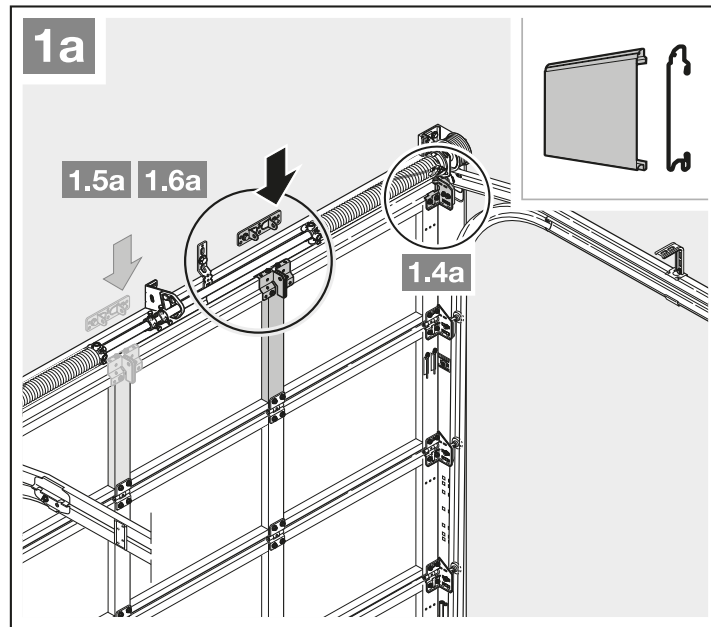
Drilling dust and chippings can lead to malfunctions.

- ▶ Cover the operator during drilling work.

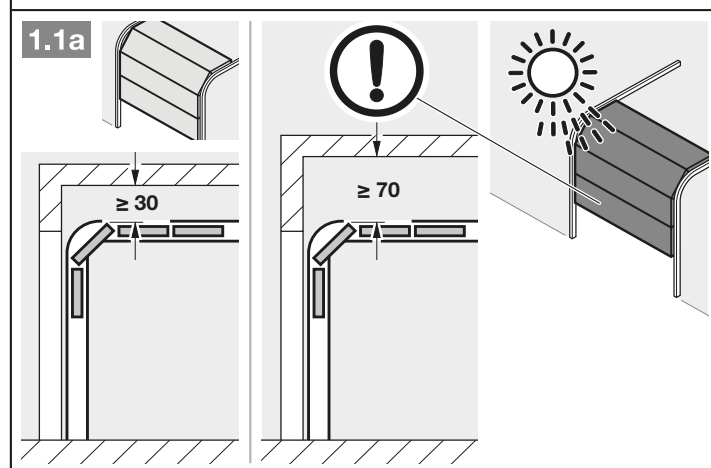
To fully comply with the **TTZ directive concerning break-in-resistance for garage doors**, the cord knob must be removed from the slide carriage.


1a
1.4a
1.4a
1.5a
1.6a
1.2a
1.3a
1.4a
1.4a
1.5a
1.6a
1.2a
1.3a

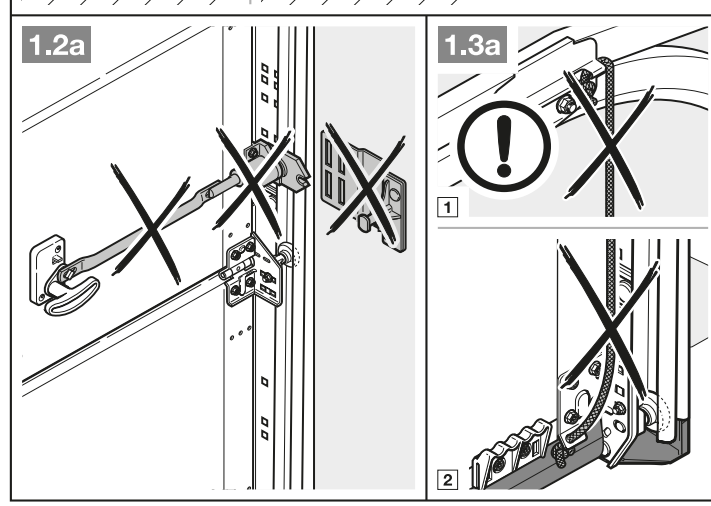
1. With an off-centre reinforcement profile, fit the link bracket on the nearest reinforcement profile to the left or right.

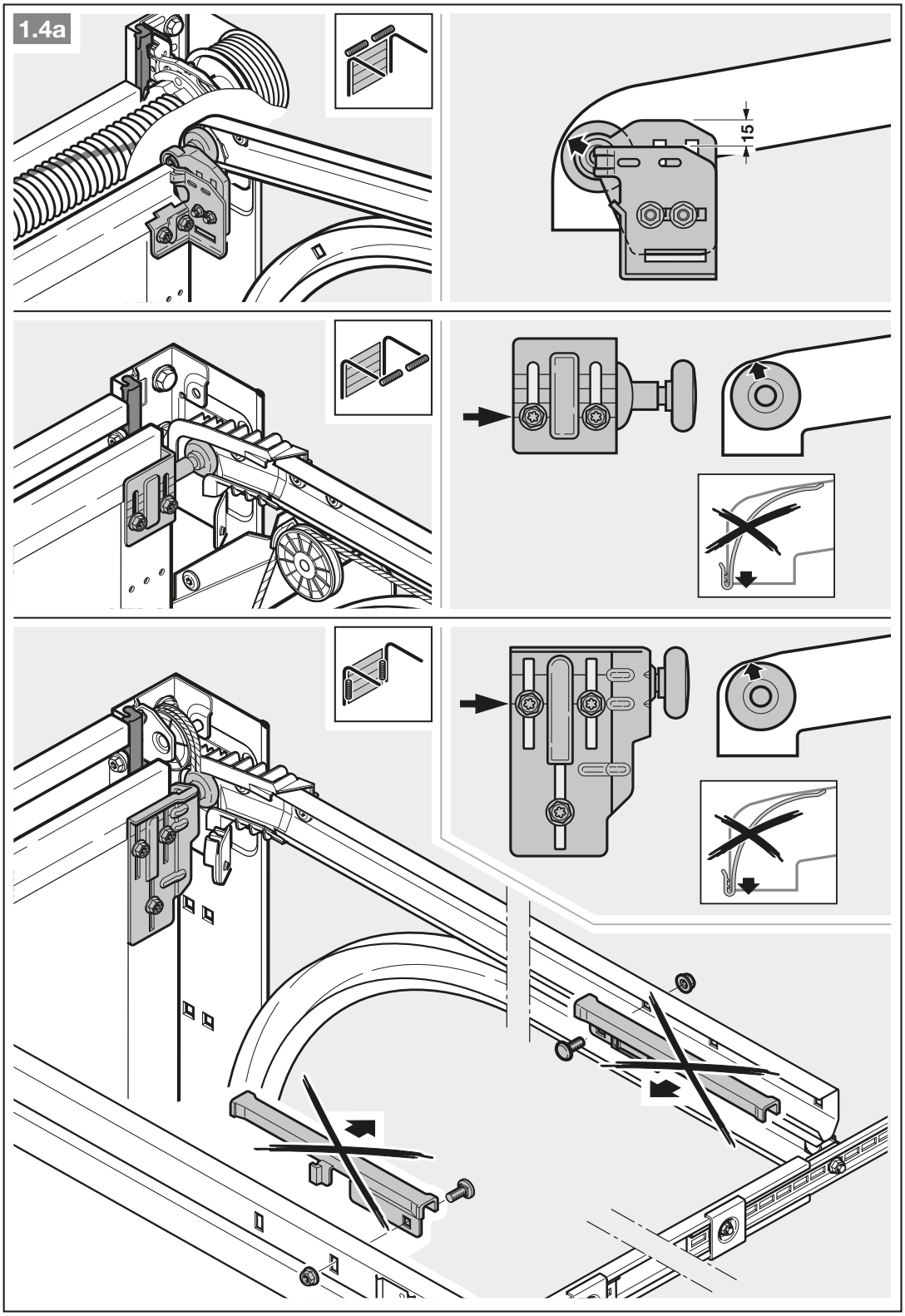


2. The clearance between the highest point of door travel and the ceiling (even when opening the door) must be **at least 30 mm**. For doors under thermal loads, the operator is to be fitted 40 mm higher if applicable.



3. Completely disassemble the mechanical door locking.

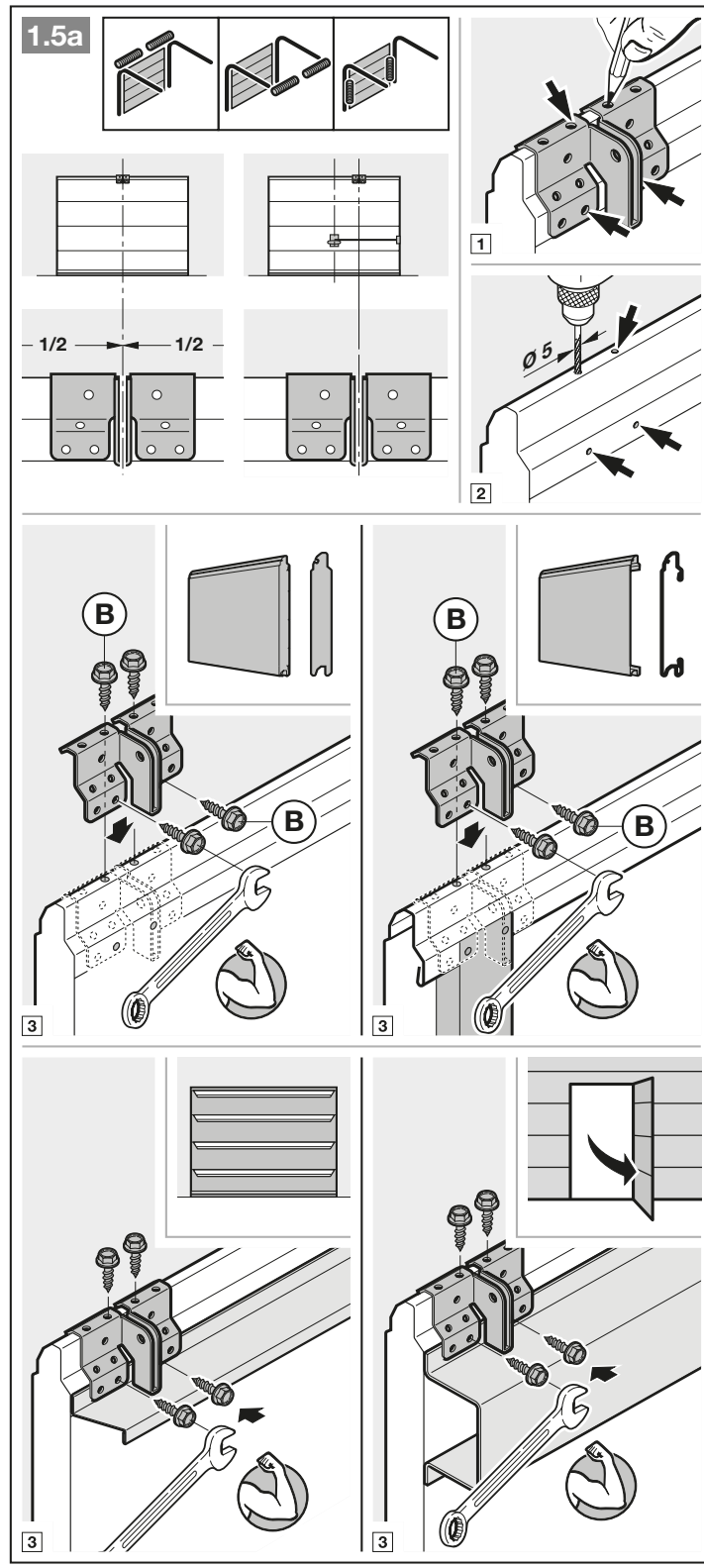


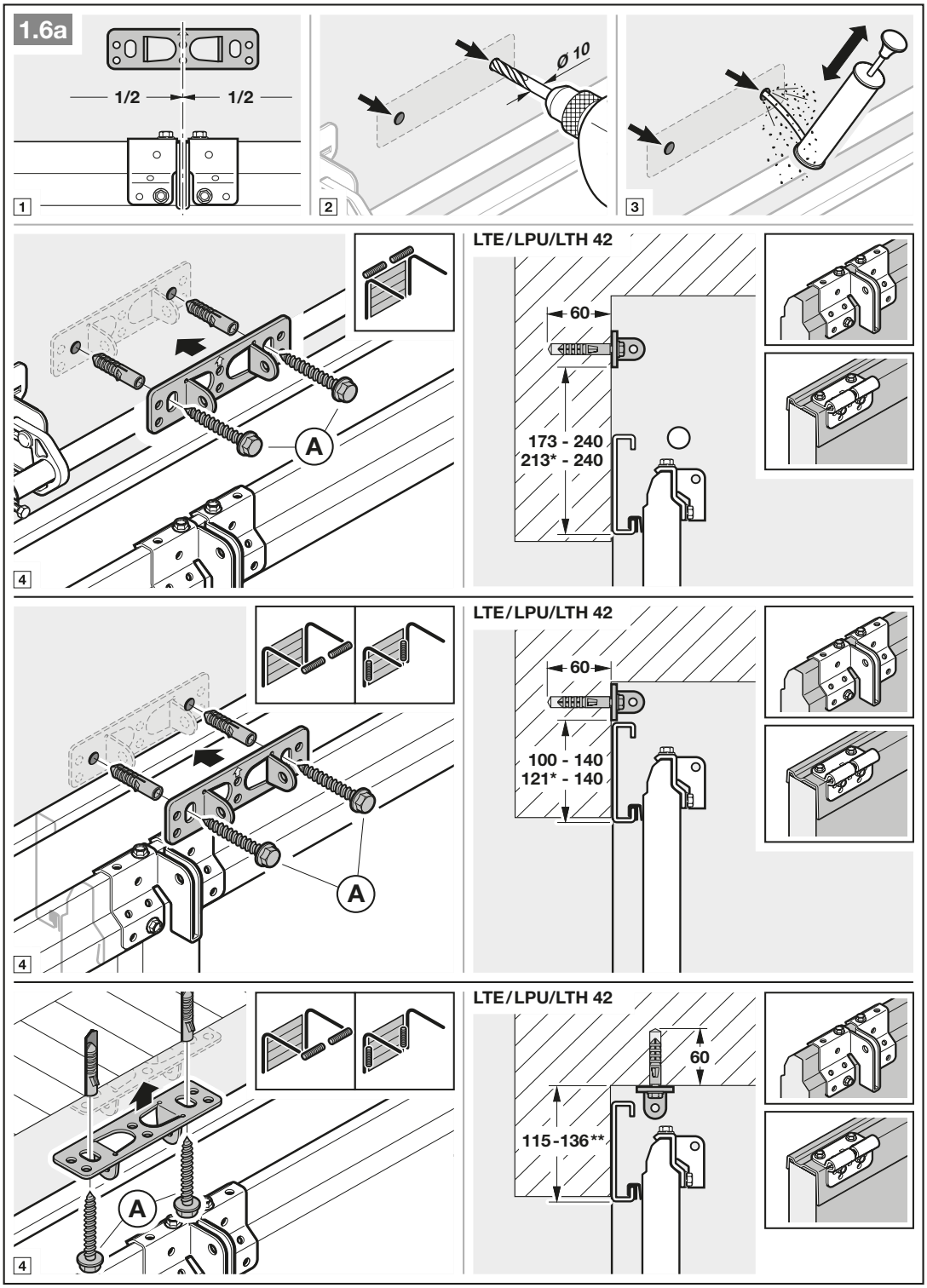

1.4a
15

4. For sectional doors with central door locking, fit the lintel joint and link bracket off-centre (max. 500 mm).

NOTICE

In a deviation from Figure **1.5a**, use the 5 × 35 woodscrews from the door accessory pack (hole Ø3 mm) for timber doors.

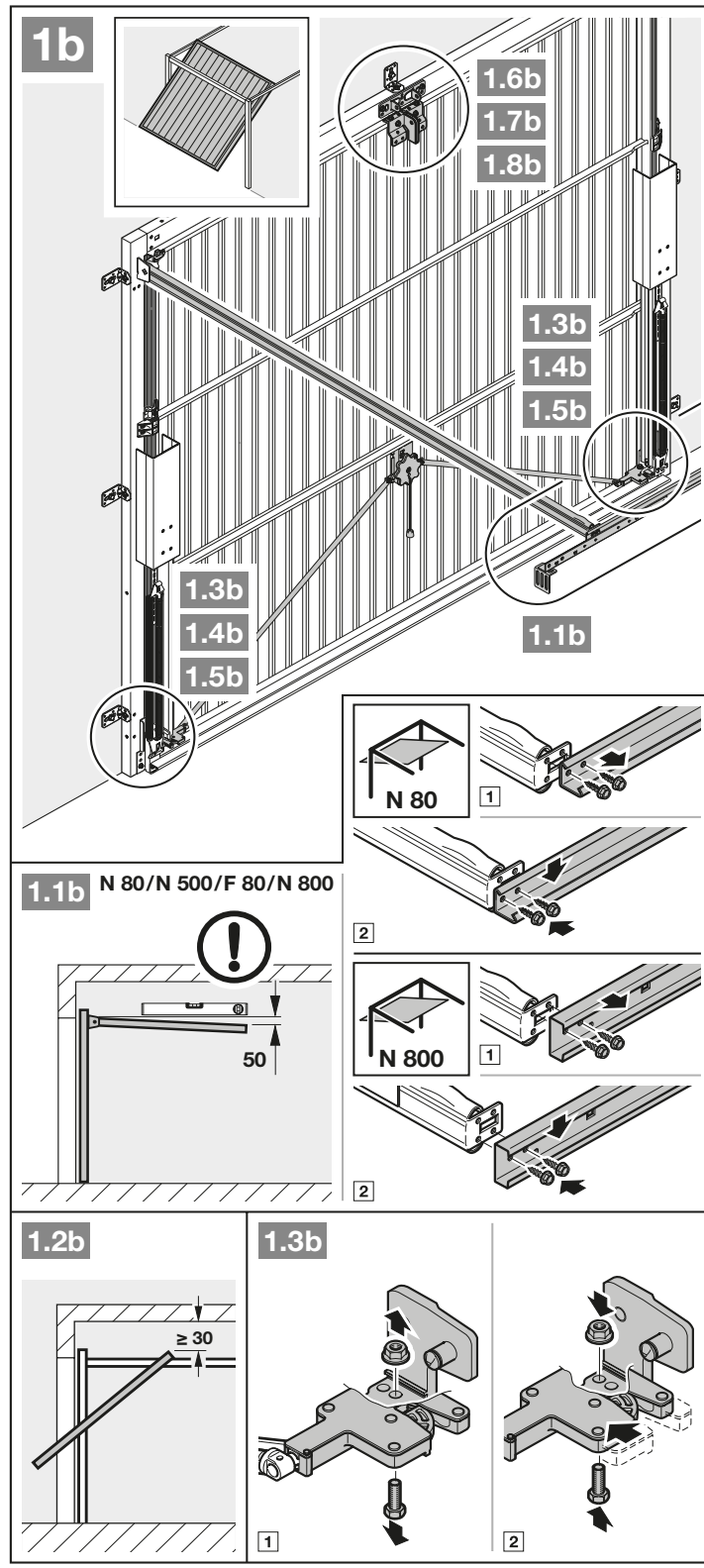




* Dimension of doors under thermal load.

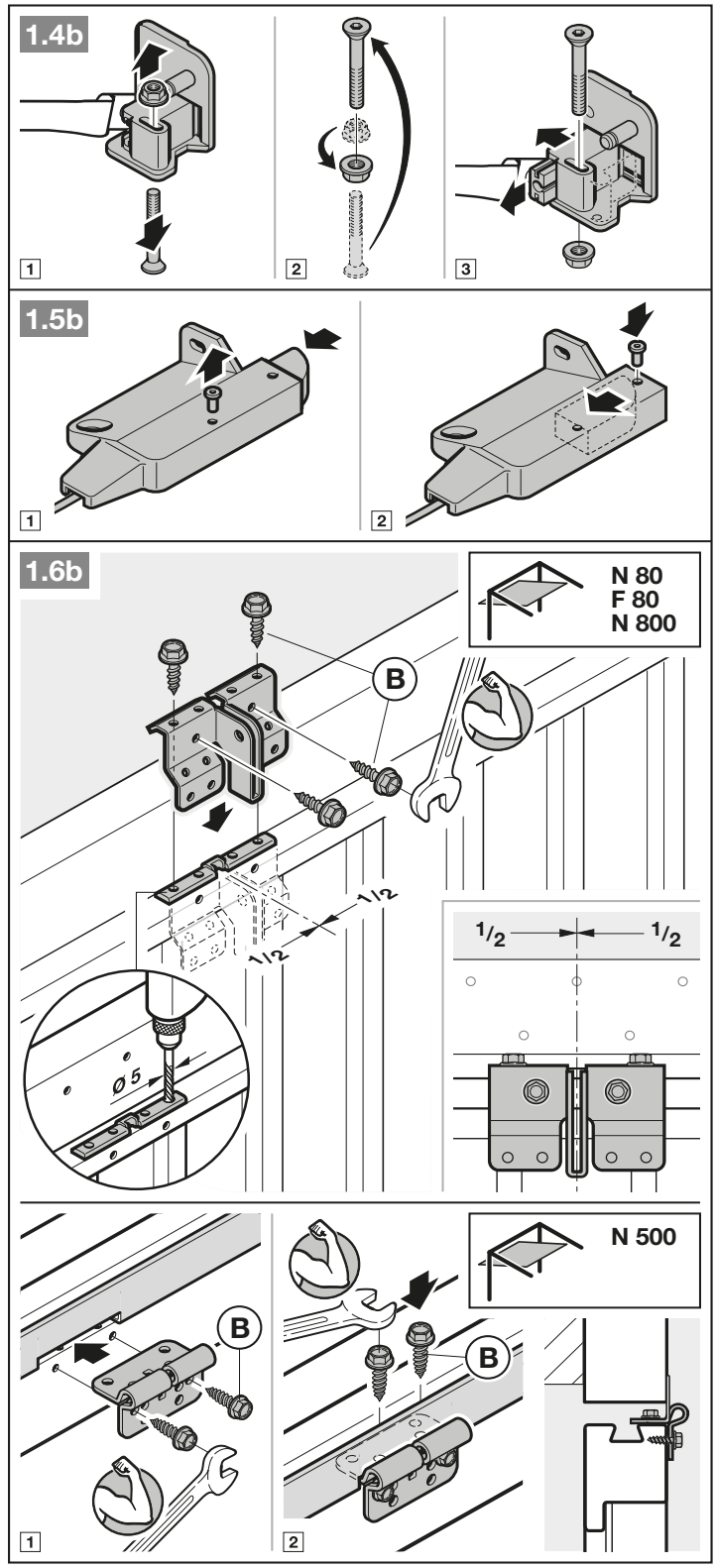
** Ceiling fitting is not possible for doors under thermal load.

ATTENTION: For Thermoframe, note the respective technical manual for the door!

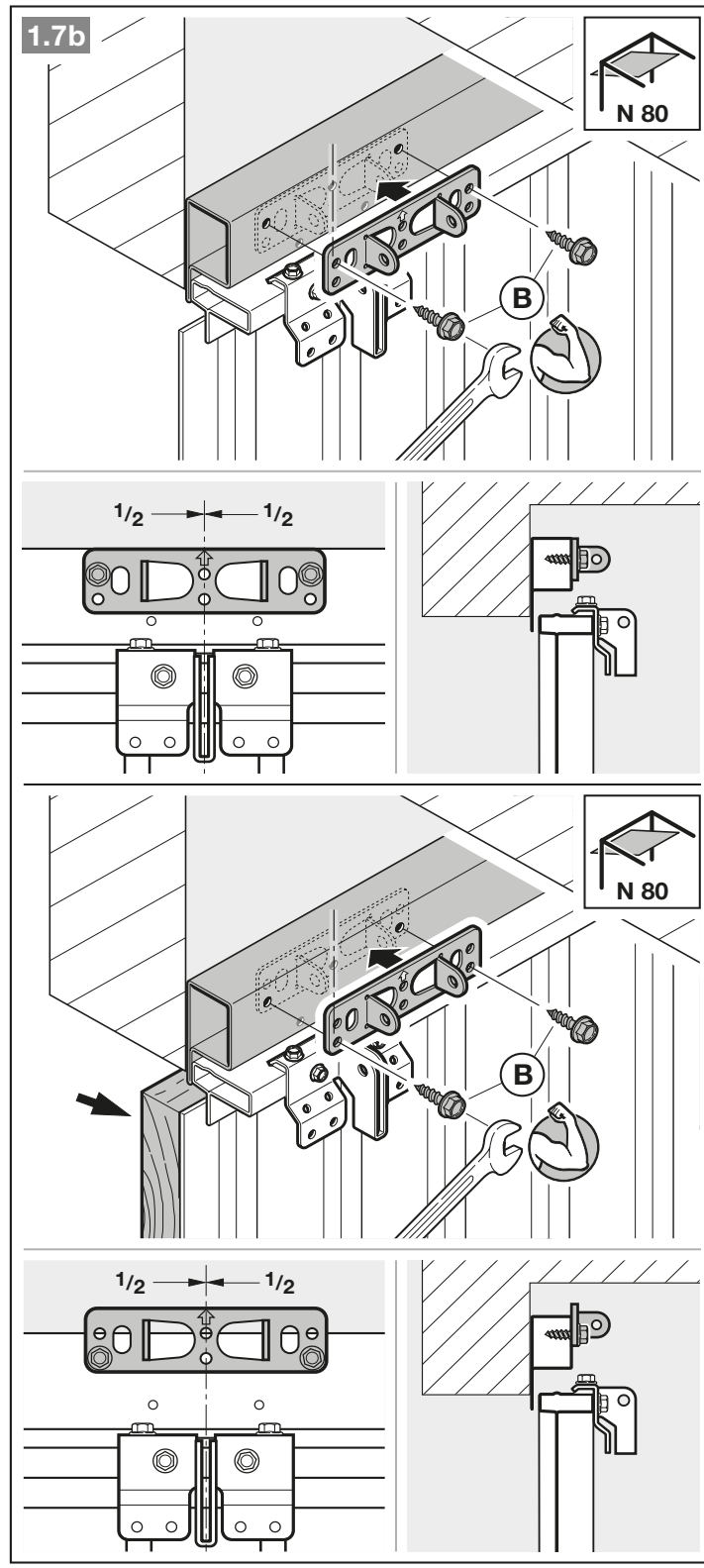


1. The clearance between the highest point of door travel and the ceiling (even when opening the door) must be **at least 30 mm**.
2. Render the mechanical door lockings inoperable (Figure **1.3b**).

3. Render the mechanical door lockings inoperable (Figures **1.4b / 1.5b**). For door models not covered here, block the lock latch on site.



4. In a deviation from the Figures **1.6b/1.7b**, the lintel joint and link bracket must be attached off-centre for up-and-over doors with ornamental iron door handles.



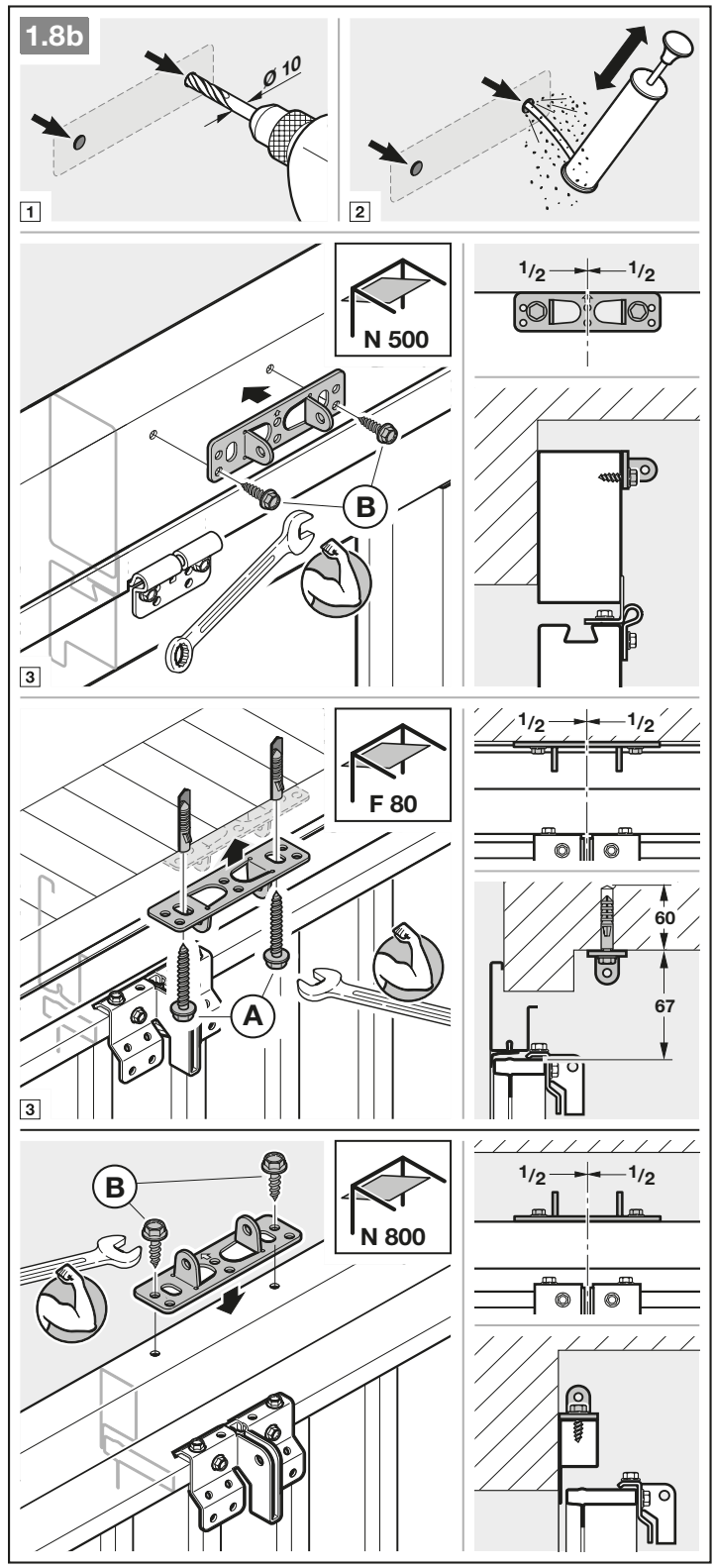
NOTICE

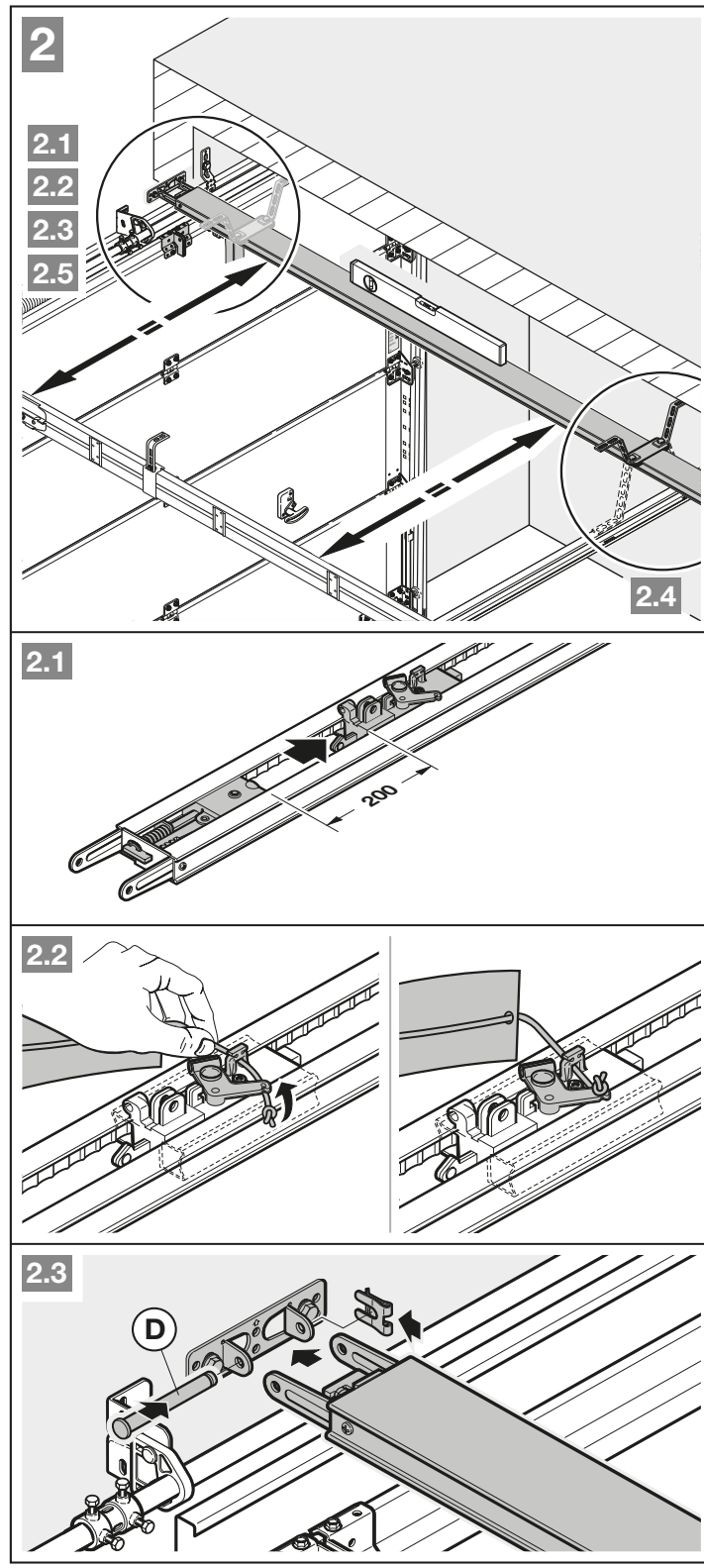
With N80 doors with timber infill, use the bottom holes on the lintel joint for fitting.

3.4 Fitting the boom

NOTICE

Only use the booms recommended by us for the garage door operators, depending on the respective application (see product information).

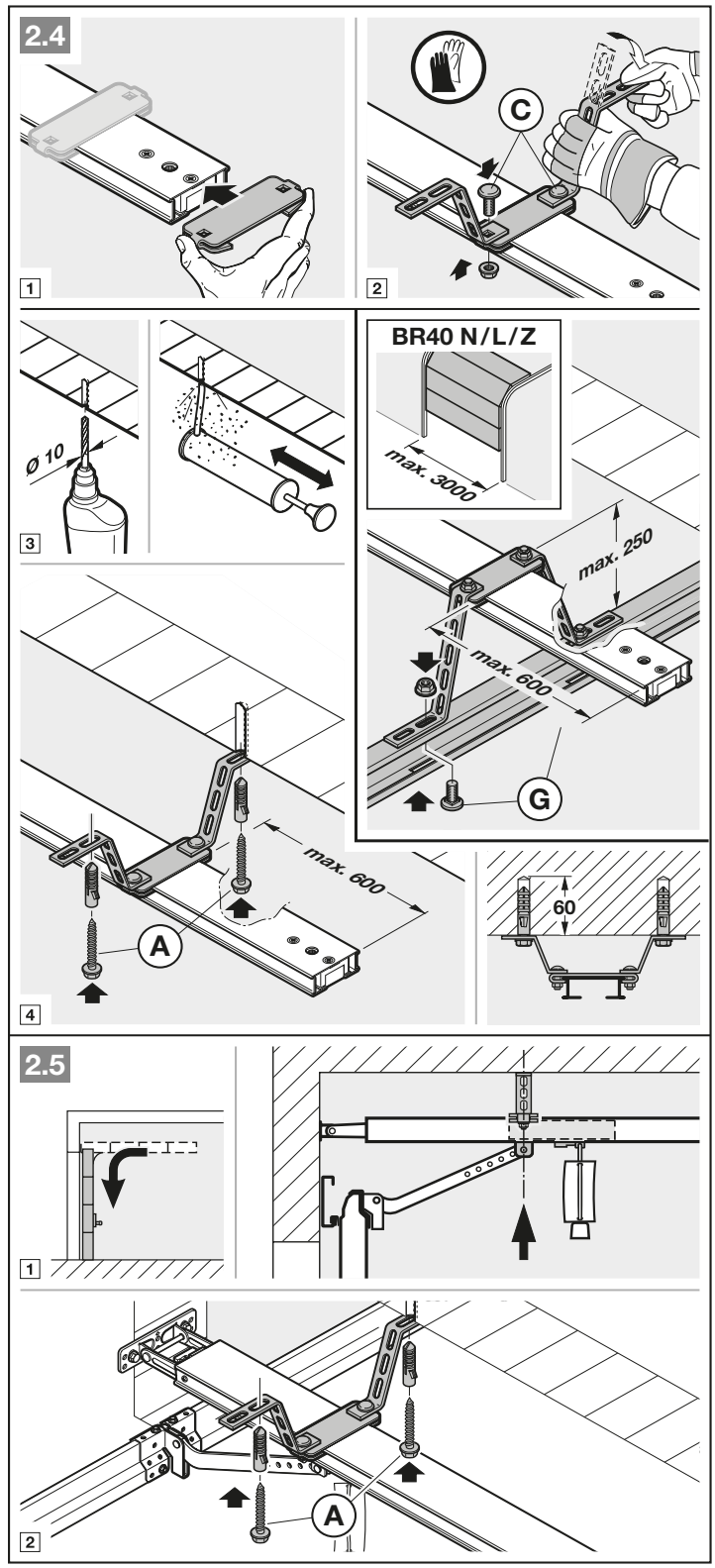




- Press the green button and move the slide carriage approx. 200 mm towards the centre of the rail. This is no longer possible once the end stops and operator have been fitted.

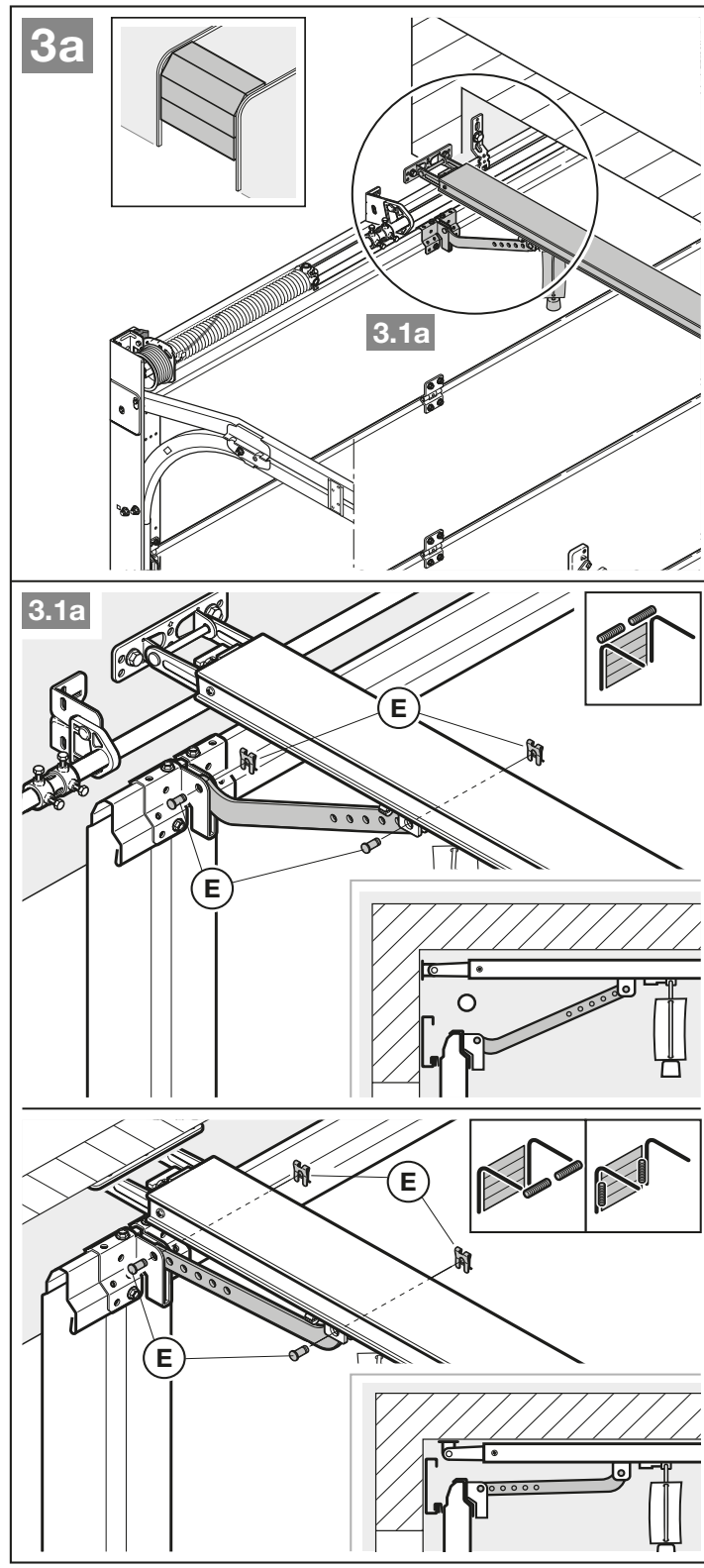
NOTICE

A second suspension is recommended with divided rails (available under accessories).



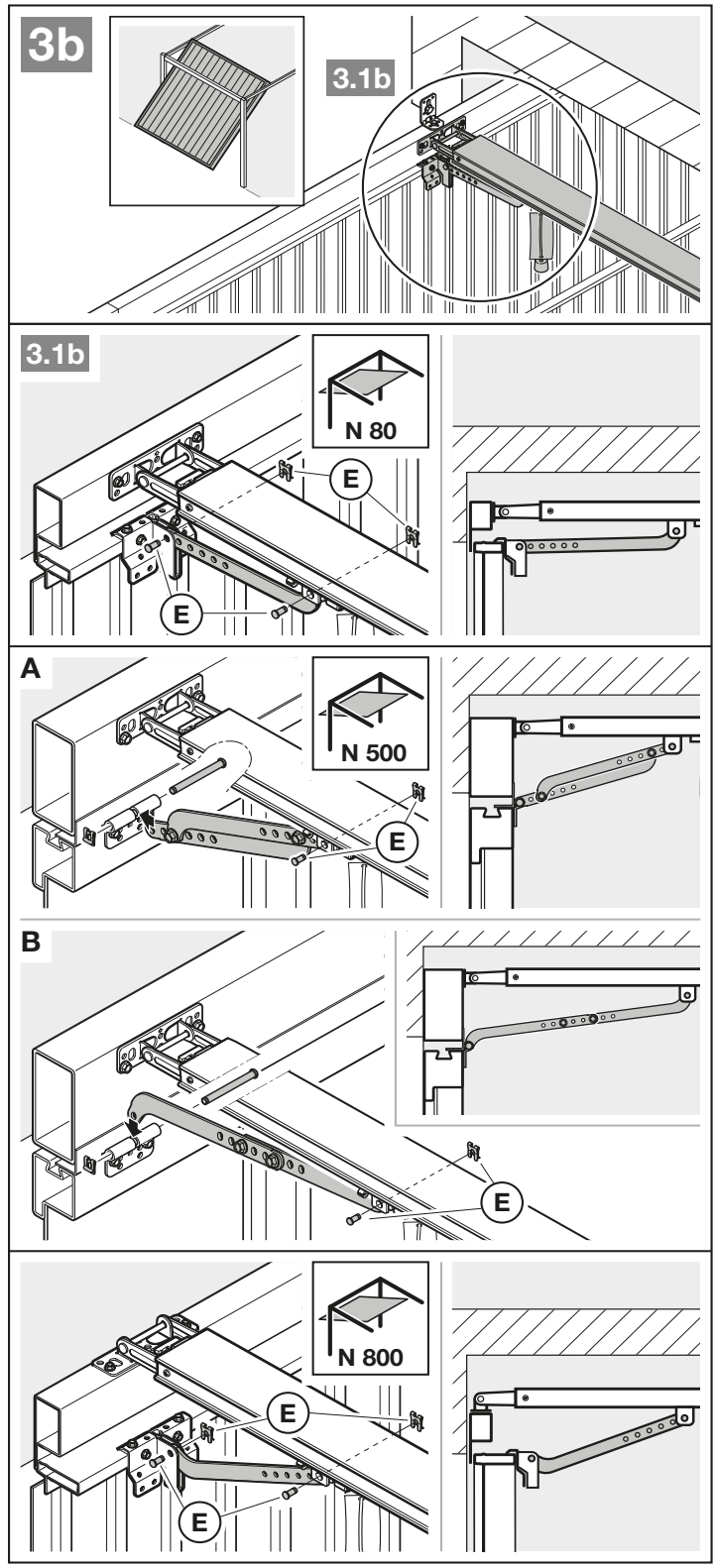
NOTICE

Depending on the **door hardware**, take the installation direction of the link bracket into account.



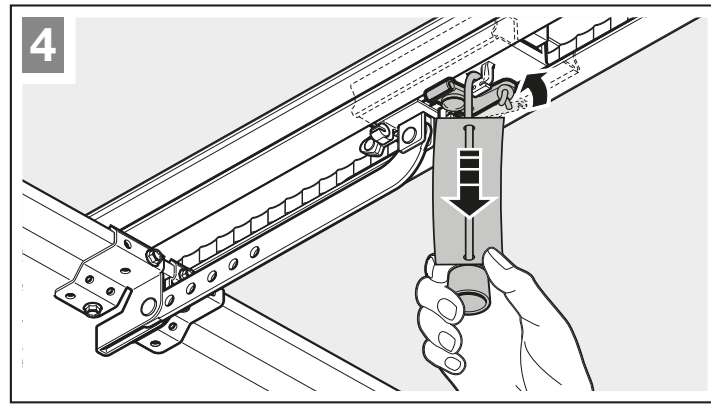
NOTICE

Depending on the **door type**, take the installation direction of the link bracket into account.



To prepare for manual operation

- Pull on the cord of the mechanical release.



3.5 Determining the end-of-travel positions

If the door cannot be easily moved into the desired OPEN or CLOSED end-of-travel position.

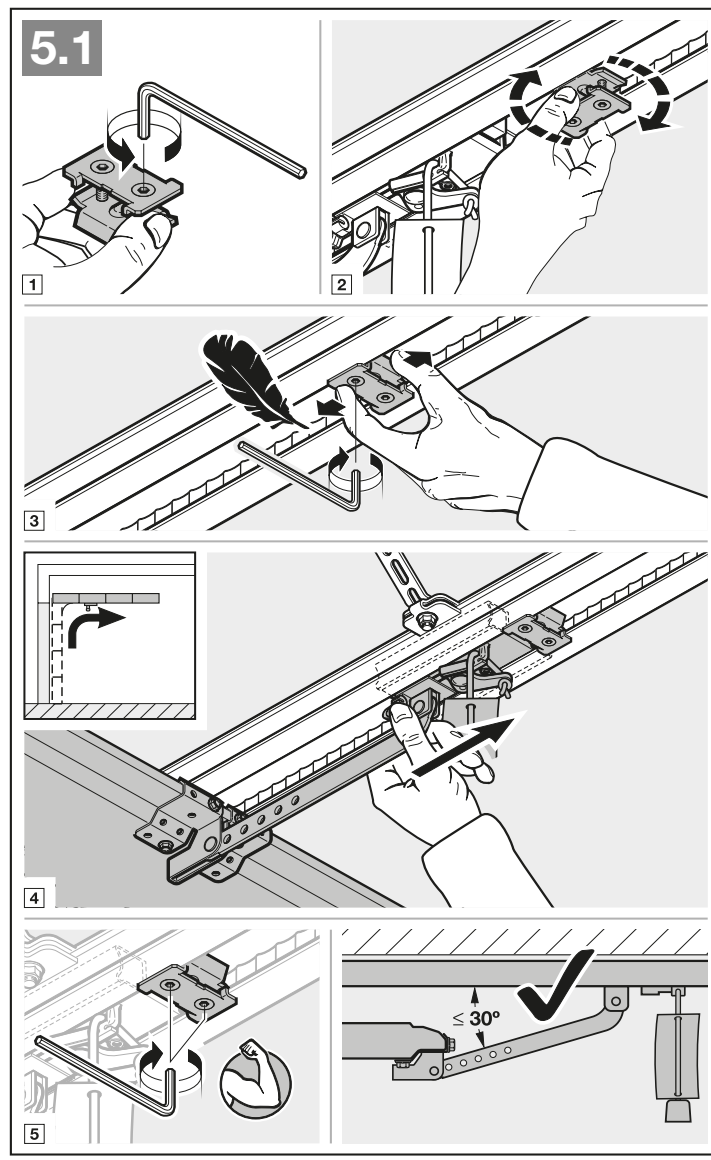
- Note section 3.1.

3.5.1 Fitting the OPEN end stop

1. Loosely insert the end stop in the boom between the slide carriage and operator.
2. Push the door into the OPEN end-of-travel position by hand.
3. Fix the end stop.

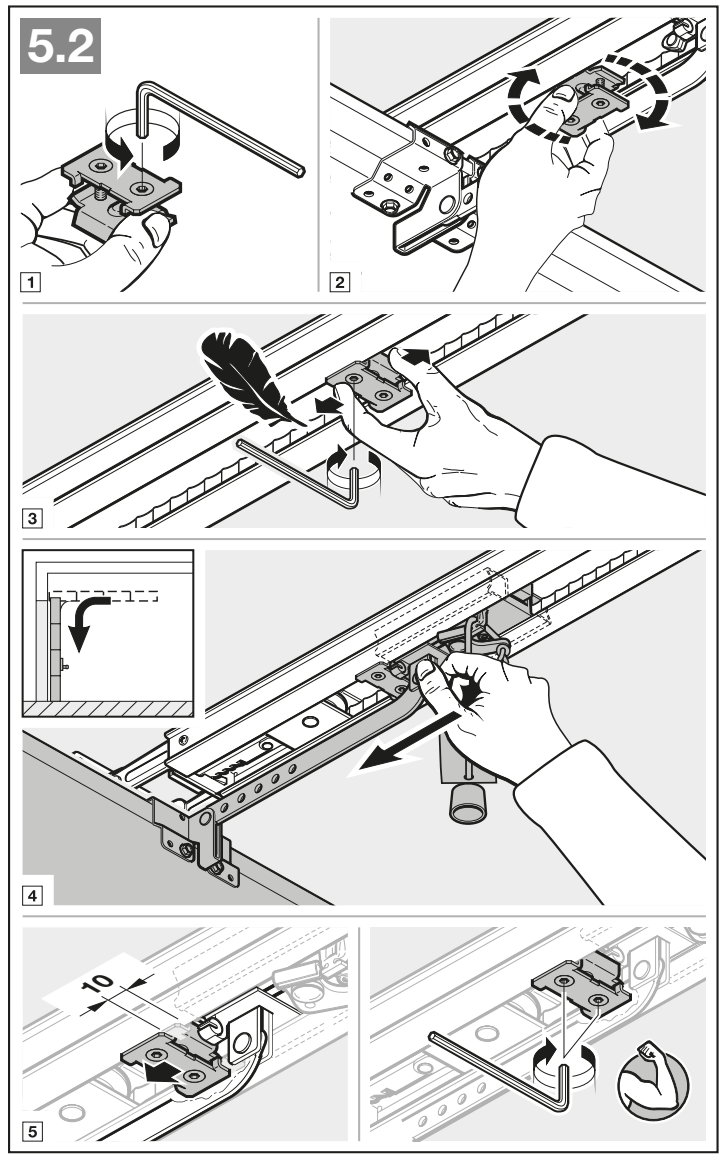
NOTICE

If the door does not reach the complete passage height in the end-of-travel position, the end stop can be removed. The integrated end stop (on the operator head) is then used.



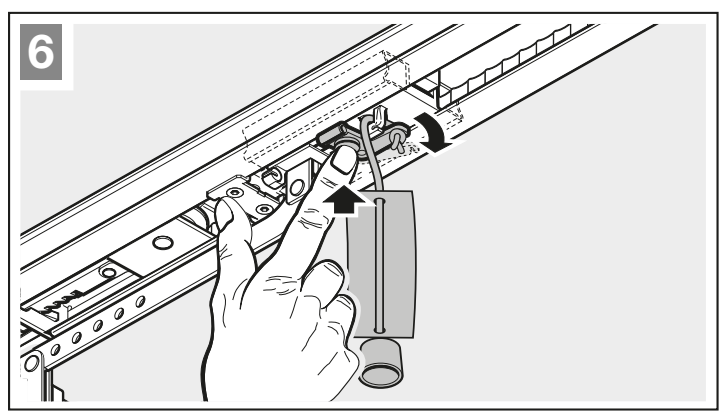
3.5.2 Fitting the CLOSE end stop

1. Loosely insert the end stop in the boom between the slide carriage and door.
2. Push the door into the CLOSE end-of-travel position by hand.
3. Move the end stop by approx. 10 mm in the CLOSE direction.
4. Fix the end stop.



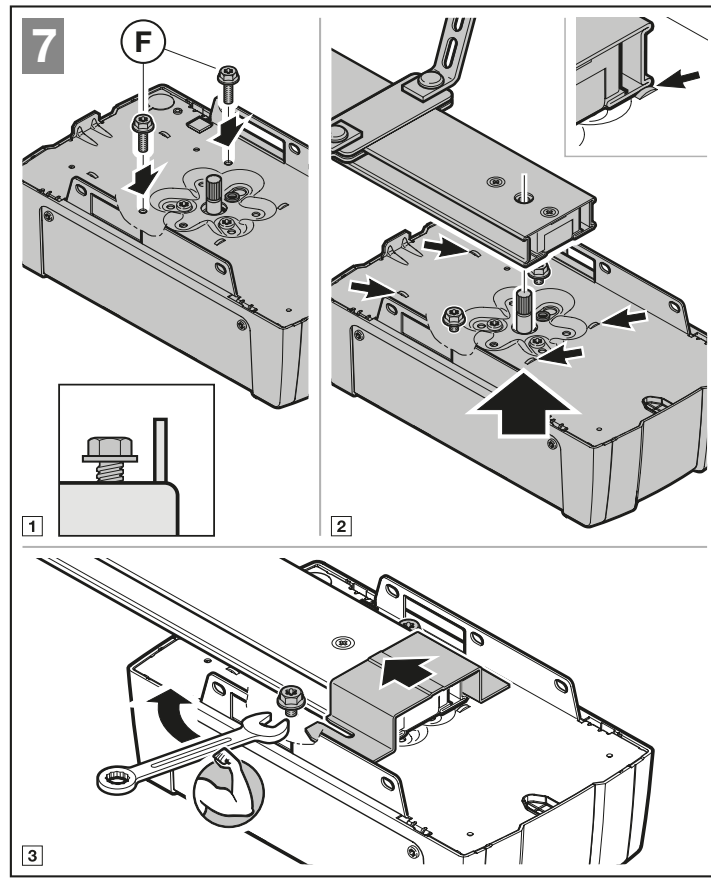
To prepare for automatic operation

- ▶ Push the green button on the slide carriage.
- ▶ Move the door by hand until the slide carriage snaps into the belt lock.
- ▶ Note the safety instructions in section 11 – *Danger of crushing in the boom*



3.5.3 Fitting the operator head

- Fasten the operator head with the display facing the door.
- During fixing, make sure that the operator rail is located before the curves in the base plate and not on them.



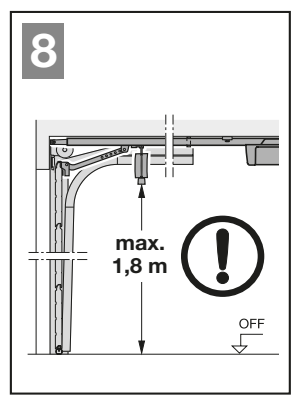
3.6 Emergency release

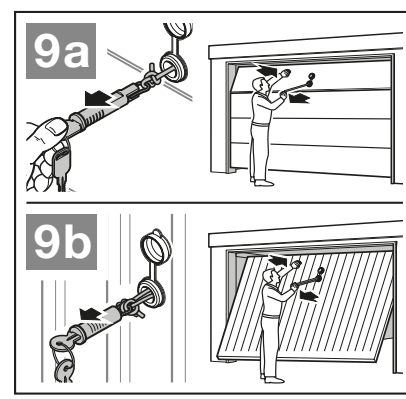
The cord knob for mechanical release may not be installed at a height greater than 1.8 m from the garage floor. The cord may need to be extended on-site, depending on the height of the garage door.

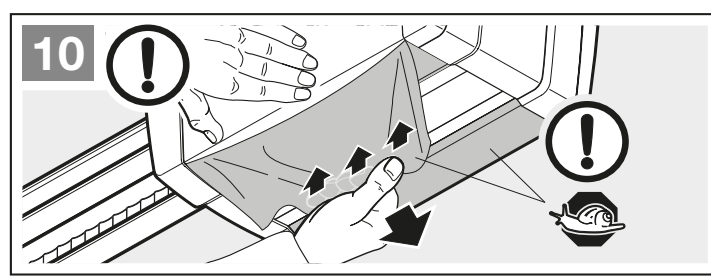
- When extending the cord, please make sure that the cord cannot become caught on a roof rack system or any other protrusions of the vehicle or door.

An emergency mechanical release is required in garages without a second entrance. An emergency release prevents the possibility of being locked out during a power failure. Order the emergency release separately.

- Check the emergency release monthly for proper function.







4 Installation

- ▶ Note the safety instructions in section 2.6
  - – *Risk of deadly electric shock from mains voltage*
  - – *Malfunctions in the connection cables*
  - – *External voltage at the connecting terminals*
- ▶ Remove the cover.

4.1 Connecting terminals

All connecting terminals can have multiple assignments (Figure **11**):

- Minimum thickness: 1 × 0.5 mm²
- Maximum thickness: 1 × 2.5 mm²

4.2 Connecting accessories

NOTES

- Loading of the operator by all accessories: **max. 350 mA**. See the figures for component power consumption.
- Series 3 accessories must be connected via the **HCP adapter HAP 1**.

The BUS jack enables the connection of accessories with special functions.

4.2.1 Button with impulse function

▶ Figure **12**

One or more buttons with normally open contacts (volt-free), e.g. internal push button or key switch, can be connected in parallel.

Terminal assignment:

23	Signal channel 2	Partial opening
5	+24 V DC	
21	Signal channel 1	Impulse
20	0 V	

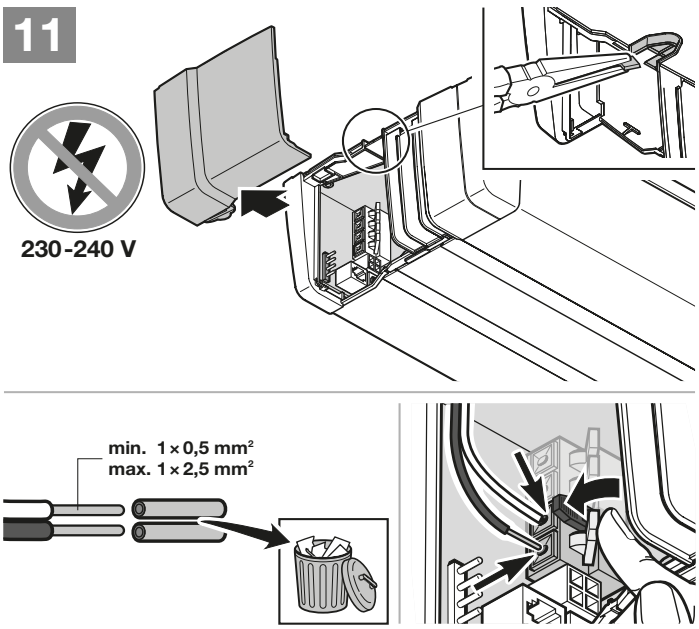
4.2.2 External radio receivers*

▶ Figure **13** + section 10

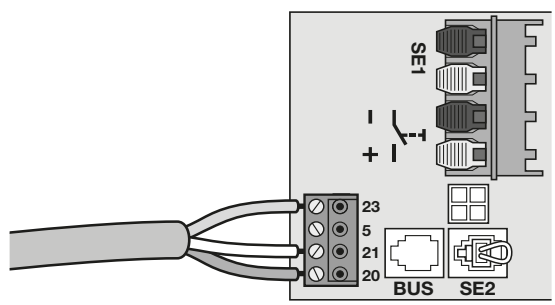
Depending on the receiver, insert the plug in the corresponding socket or the BUS jack.

* – Accessory, not included as standard equipment!

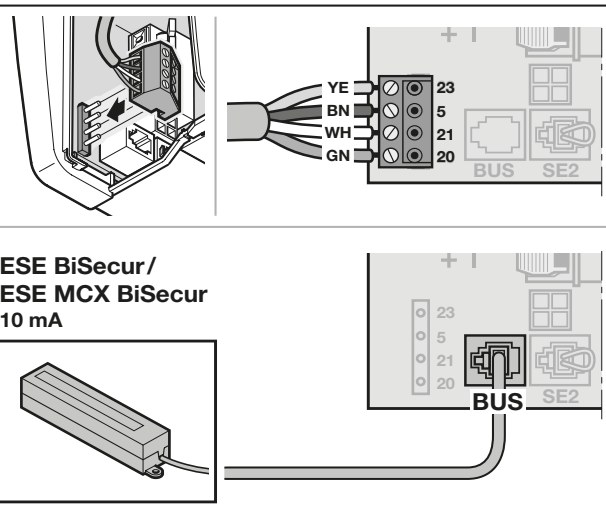
11



12

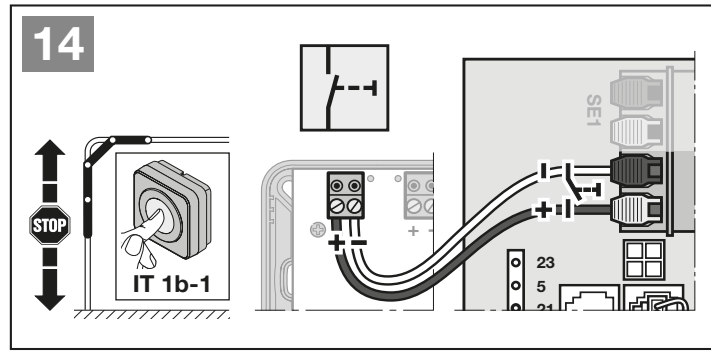


13



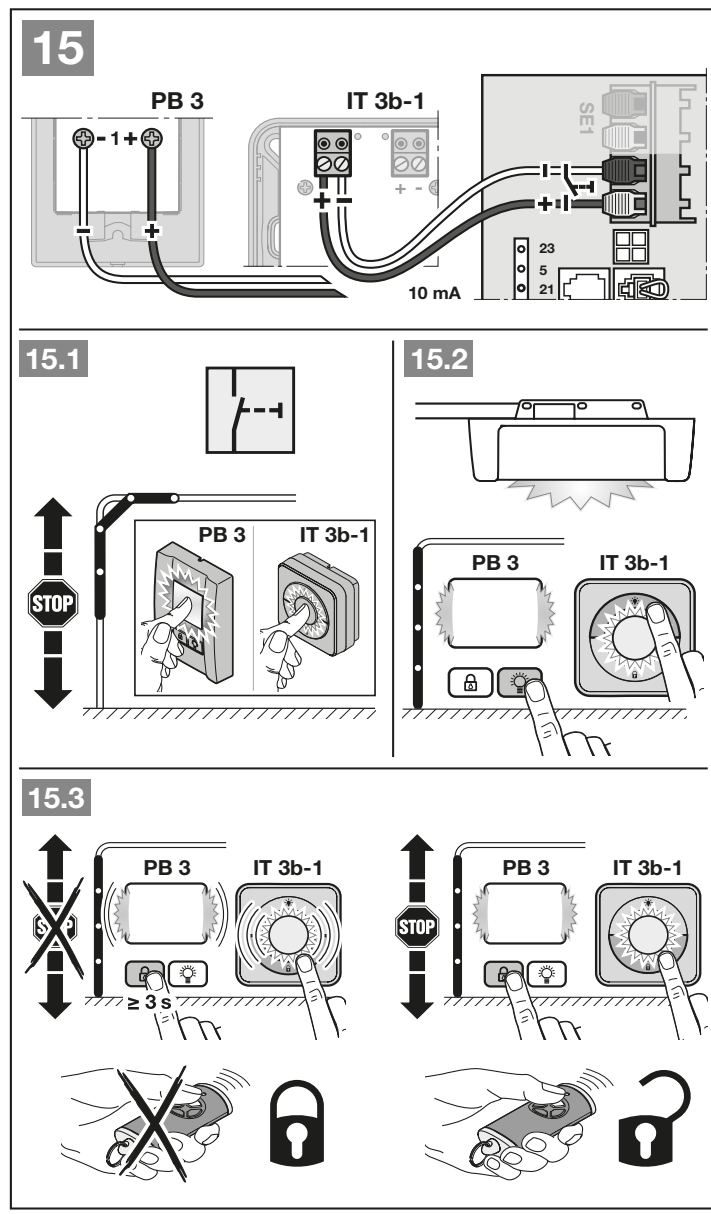
4.2.3 Impulse button IT 1b-1*

▶ Figure **14**



4.2.4 Internal push button*

▶ Figure **15**



Impulse button to start or stop door runs

▶ Figure **15.1**

Light button to switch the operator light on and off

▶ Figure **15.2**

Button to switch all control elements on and off

▶ Figure **15.3**

The light can still be switched on and off, even if the control elements are turned off.

* – Accessory, not included as standard equipment!

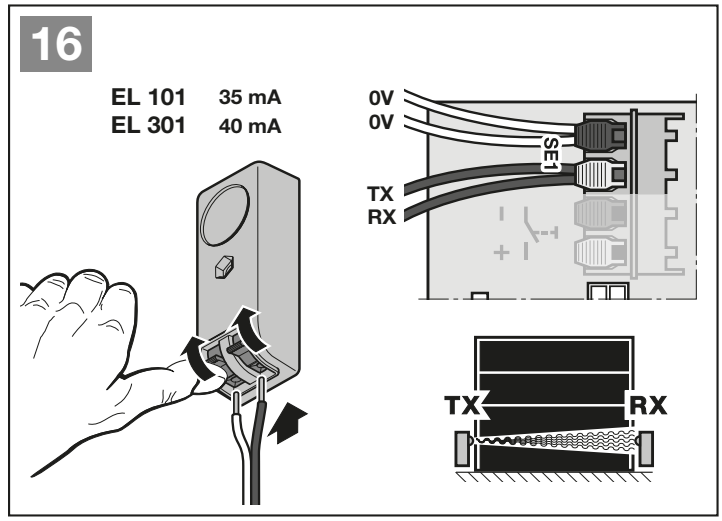
4.2.5 2-wire photocell* (dynamic)

▶ Figure **16**

NOTICE

Follow the fitting instructions when mounting photocells.

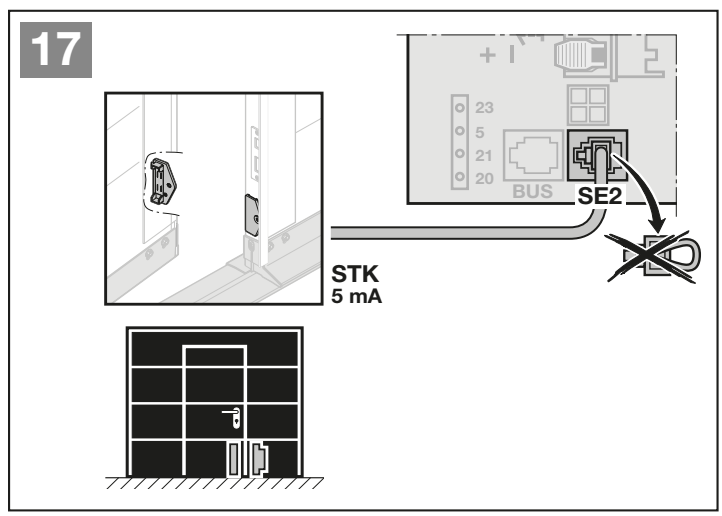
After the photocell is actuated, the operator stops and the door performs a safety run to the OPEN end-of-travel position.



4.2.6 Tested wicket door contact*

▶ Figure **17**

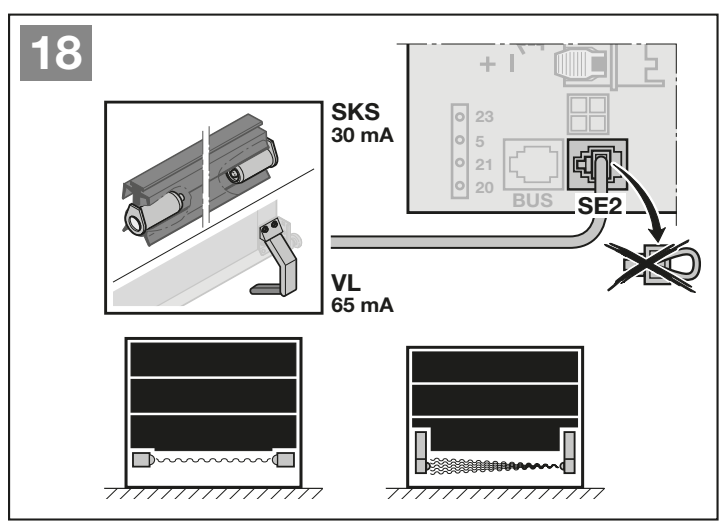
If the wicket door contact is opened during a door run, the operator stops immediately and blocks door run permanently.



4.2.7 Closing edge safety device*

▶ Figure **18**

After the closing edge safety device is actuated, the operator stops and the door performs a safety run to the OPEN end-of-travel position.

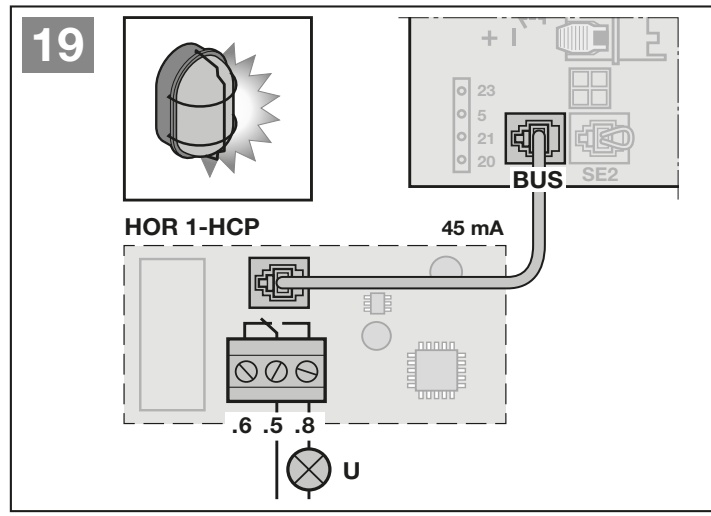


* – Accessory, not included as standard equipment!

4.2.8 Option relay*

▶ Figure **19** and section 6.1.16

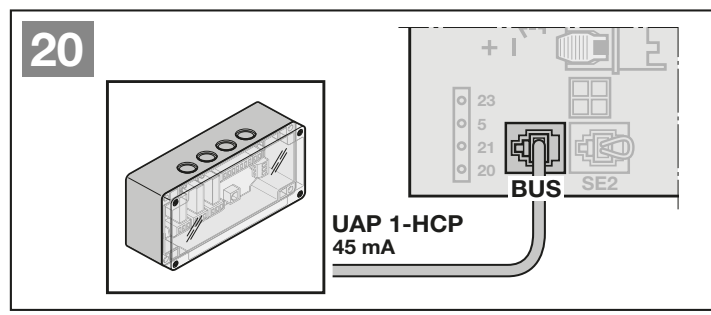
The option relay is required to connect an external lamp or warning light.



4.2.9 Universal adapter print*

▶ Figure **20** and section 6.1.16

The universal adapter print can be used for additional functions.

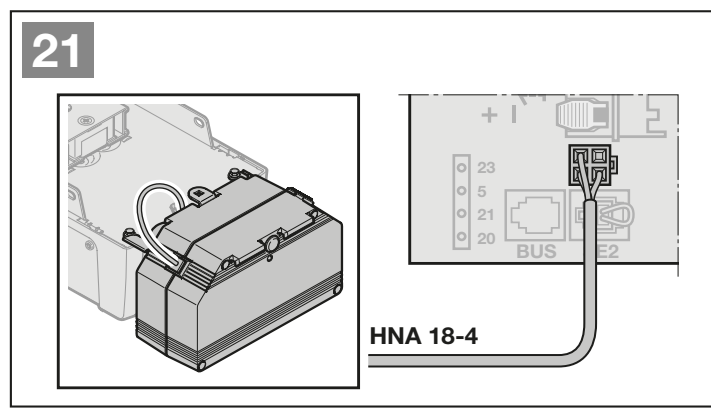


4.2.10 Emergency battery*

▶ Figure **21**

To close the door in the event of a power failure, an optional emergency battery can be connected. The system is switched to battery operation automatically. During battery operation, fewer LEDs are illuminated on the operator light.

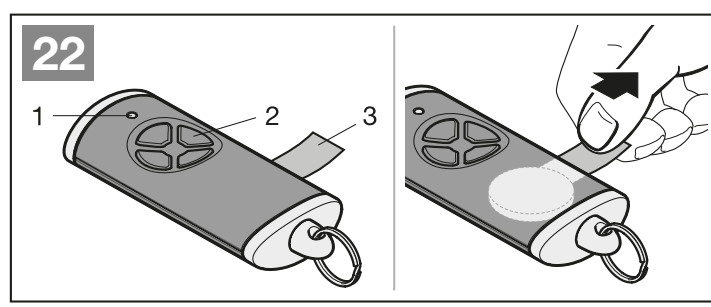
> **⚠ WARNING**
>
> **Danger of injury due to unexpected door run**
>
> Unexpected door run may occur when the emergency battery is still connected despite the mains plug being pulled out.
>
> ▶ Disconnect the mains plug **and** the plug of the emergency battery whenever performing work on the door system.



4.2.11 Hand transmitter

▶ Figure **22**

1 LED, bi-colour
2 Hand transmitter buttons
3 Battery insulation foil



* – Accessory, not included as standard equipment!

5 Initial start-up

▶ Before initial start-up, read and follow the safety instructions in sections 2.7 and 2.9.

During learning runs, the operator is adjusted to the door. The travel distance, the required force for opening and closing runs and the connected safety devices are taught in automatically and saved in a power failure-proof manner. The data is only valid for this door.

NOTES

- The hand transmitter must be ready for operation (see section 4.2.11).
- The slide carriage must be engaged.
- No obstacles may be located in the function range of the safety devices.
- Safety devices must be fitted and connected beforehand.
- During learning runs for travel and the required forces, the connected safety devices and power limit are not active.
- While the travel is being taught in, the operator moves in slow travel.

Operator light:

If the operator has not yet been taught in, the operator light is illuminated for 120 seconds as soon as the the mains plug is inserted in the socket.

5.1 Teaching in the operator

⚠ CAUTION

Danger of injury due to incorrectly selected operator type

If an incorrect door type is selected, unspecific values are set as default. Door system malfunctions may cause injuries.

▶ Only choose the menu that corresponds to the door system you have.

▶ Figure **23**

1. Plug in the mains plug.
On the display
– **8.8.** is illuminated for 1 second,
– **U** is then illuminated continuously.

2. Press the ^ or v button and select the available door type.

Door types:

Menu		Door type
01.	=	Sectional door
02	=	Up-and-over door [1]
03	=	Side sliding sectional door, hinged garage door
04	=	Non-protruding up-and-over door [2]
05	=	Garage horizontal door
06	=	Up-and-over door Canopy [1]

1) Door swinging outward
2) Door tilting inward

3. Press the PRG button.
– **L** is illuminated.

4. Press the button ^.
– The door will open and briefly stop in the OPEN end-of-travel position. **L**¯ flashes.
– The door automatically completes 3 cycles (OPEN and CLOSE door runs). **L**_ flashes in the CLOSE direction.
L¯ flashes in the OPEN direction.
The travel, required forces and connected safety devices will be taught in.
The operator light flashes during the learning runs.
– The door will stop in the OPEN end-of-travel position. The operator light is continuously illuminated.

To abort a learning run:

▶ Press one of the buttons ^, v, PRG or an external control element with impulse function.
On the display a **U** is illuminated and the operator has not been taught in.

Display of taught-in forces

After the learning runs, a number is illuminated, which shows the maximum determined force.

This value indicates the following:

0-2 Optimal force ratios.
The door system runs easily.

3-9 Poor force ratios.
The door system must be checked and adjusted if necessary.

The operator automatically switches to the menu for teaching in the hand transmitters.

Each hand transmitter button is assigned to a radio code.

▶ Also note section 8.

On the display, **11** flashes.

To teach in a radio code (impulse):

5. Press and hold the hand transmitter button from which you want to transmit the radio code.
Hand transmitter:
– The LED is illuminated blue for 2 seconds and then goes out.
– After 5 seconds, the LED alternates flashing in red and blue. The radio code is transmitted.
Operator:
If the receiver detects a valid radio code, **11.** flashes quickly on the display.

6. Release the hand transmitter button.
The hand transmitter has been taught in and is ready for operation.
11 flashes on the display.
Further hand transmitters can be taught in within 25 seconds.

To teach in further radio codes (impulse):

▶ Repeat steps **5** + **6**.

To cancel radio code teach-in:

▶ Press the PRG button.

To teach in further functions on the hand transmitter:

▶ Press the ^ button and select

Menu **12**	Lighting
Menu **13**	Partial opening
Menu **14**	Choosing OPEN direction
Menu **15**	Choosing CLOSE direction
Menu **16**	Ventilation

7. Press the PRG button and switch to programming mode.
Correspondingly, **12, 13, 14, 15** or **16** flashes.

8. Perform steps **5 + 6** as for the impulse radio code.

To teach in no further hand transmitters:

▶ Press the PRG button.
The operator switches to programming mode.
Or

▶ No input for 25 seconds (radio timeout).

11, 12, 13, 14, 15 or **16** is illuminated depending on which radio code was last taught in.

To complete initial start-up:

1. Press the ^ / v buttons to select menu **00**.

2. Press the PRG button.
The operator switches to operation mode.
Or

▶ No input for 60 seconds (timeout).

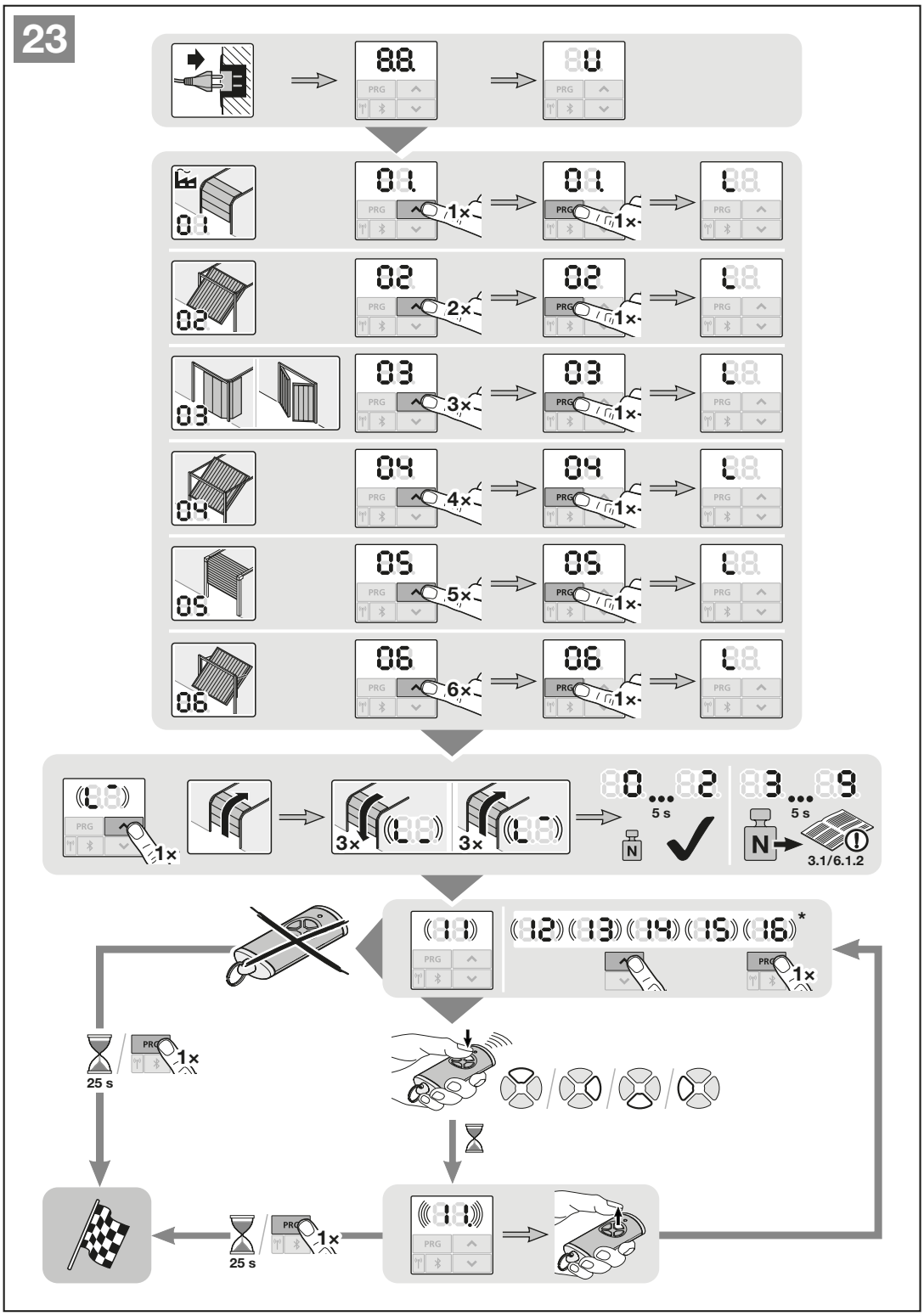
The taught-in safety devices are active and activated in the menus.

The operator is ready for operation.

Radio timeout:

If the timeout (25 seconds) is exceeded while teaching in the hand transmitter, the operator automatically switches to programming mode. To teach in a hand transmitter, the corresponding menu must be selected manually.

▶ Section 6.1.4



* Teach-in hand transmitter according to section 6.1.4, page 36

6 Menus

NOTES

- Menu **00** is the 1st visible menu in programming mode
- Menu **00** is also used to exit the programming mode.
- Menus **01** – **09** are only accessible during initial start-up.
- After initial start-up, only the available menus **10** – **38** are visible.
- A decimal point next to the menu number indicates an active menu.

To switch to programming mode:

▶ Press the PRG button for 5 seconds until the **00** display is illuminated.

To select a menu:

▶ Press the ^ / v buttons to select the desired menu. Press and hold the ^ / v buttons for fast run-through.

To activate the menu with individual functions:

▶ Press the PRG button 1×.
The menu is active immediately.
The decimal point next to the menu number is illuminated.

To activate a menu with selectable parameters:

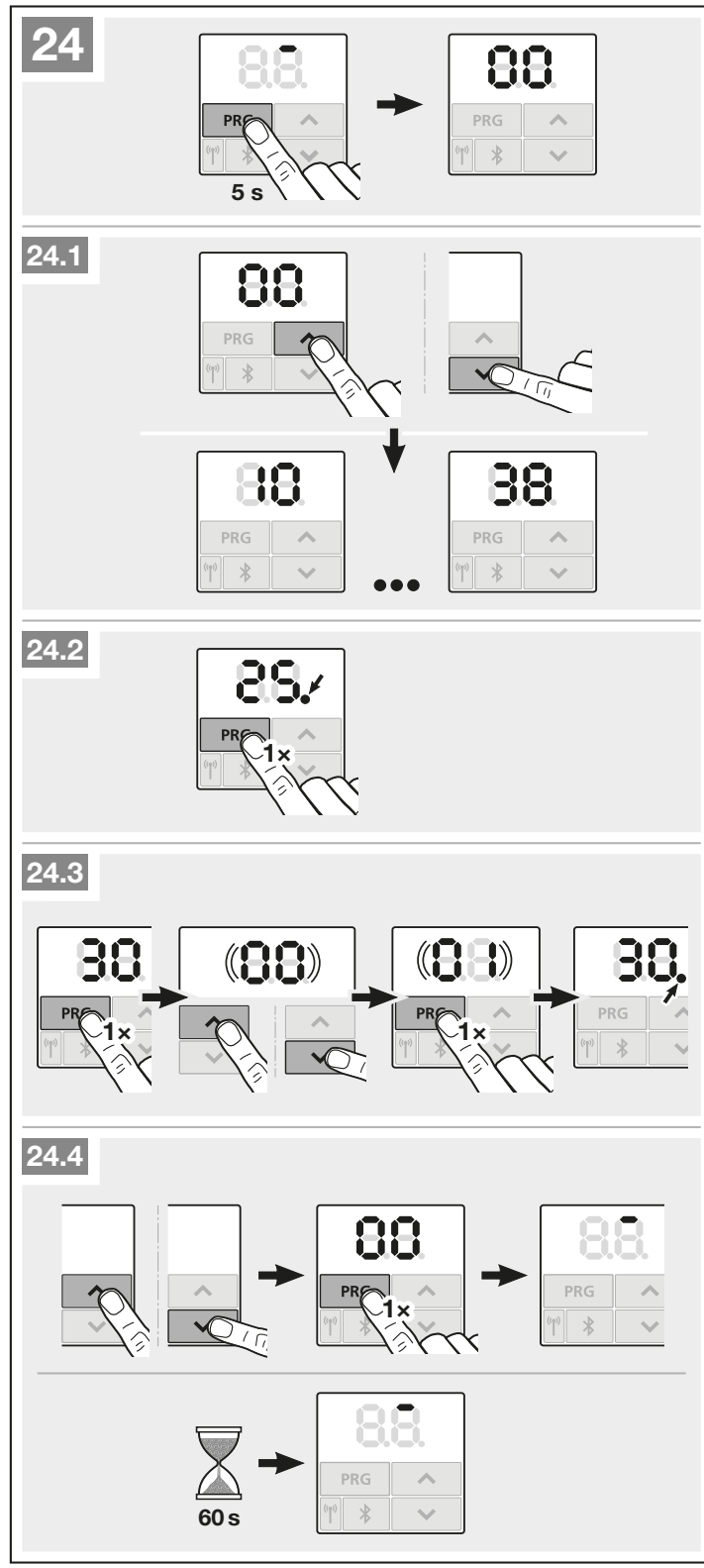
1. Press the PRG button 1 ×.
   The active parameter flashes.
2. Select the desired parameters with the ^ / v buttons.
3. Press the PRG button 1 ×.
   The parameter is immediately active.
   The menu number and the decimal point are illuminated.

To exit programming mode:

1. Press the ^ / v buttons to select the menu **00**.
2. Press the PRG button.

Or

▶ No input for 60 seconds (timeout).
All inputs are saved. The operator switches to operation mode.



6.1 Menu description

A table containing all of the menus can be found in section 19 from page 58.

TIMEOUT NOTICE

If you do not press the PRG button to save a desired parameter within 60 seconds, the default parameter is maintained.

6.1.1 Advanced menus

In addition to menus **01 – 37** described here and the respective parameters, additional settings can be made, such as

- Speed adjustment
- Power limit adjustment
- Belt adjustment
- Change to the reversal limit
- Effective direction and reversing behaviour of the safety devices
- Changing the ventilation position without safety equipment

Contact your specialist dealer with regard to these settings.

NOTICE

Settings that change the factory setting may only be made by specialists.

6.1.2 Menu 01 – 06: Door types

You only need menus **01** – **06** to commission the operator. These menus are only available during initial start-up or after a factory reset.

If you select the door type, all door-specific values are automatically set by default, such as:

- Speeds,
- Soft stop,
- Reversing behaviour of the safety devices,
- Reversal limits,
- Etc.

An overview of the door types can be found in section 5.1.

6.1.3 Menu 10: Learning runs

▶ Please note the information from section 5.

Learning runs are necessary:

- After service or maintenance work,
- If safety equipment, e.g. photocells, wicket door contact or safety contact strip, have been fitted and connected,
- If changes have been made to the door.

Learning runs in delivery state:

During initial start-up (section 5), all learning runs are performed automatically.

To start learning runs:

1. Press the PRG button until the **00** display is illuminated.
2. Press the ^ / v buttons to select the menu **10**.
3. Press the PRG button for 5 seconds.
   – **L** is illuminated,
4. Press the button ^.
   – The door will open and briefly stop in the OPEN end-of-travel position. **L**⁻ flashes.
   – The door automatically completes 3 cycles (OPEN and CLOSE door runs). **L** _ flashes in the CLOSE direction. **L**⁻ flashes in the OPEN direction.

   The travel and required forces are taught in.
   The operator light flashes during the learning runs.
   – The door will stop in the OPEN end-of-travel position. The operator light remains illuminated and goes out after approx. 120 seconds.

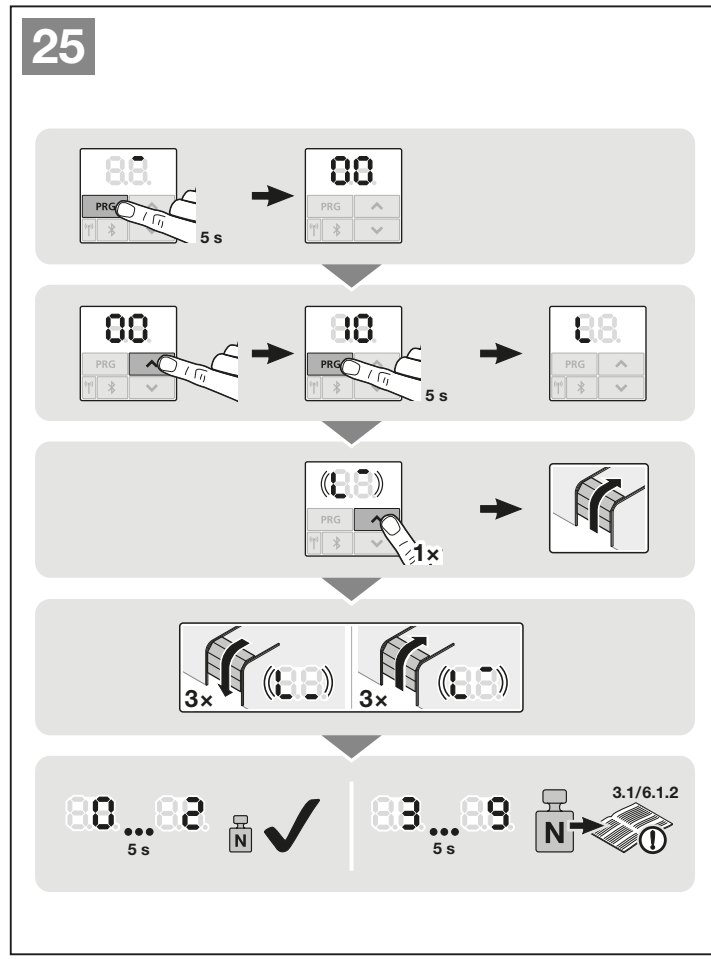
Display of taught-in forces

After the learning runs, a number is illuminated, which shows the maximum determined force.

This value indicates the following:

0-2 Optimal force ratios.
The door system runs easily.

3-9 Poor force ratios.
The door system must be checked and adjusted as necessary.



6.1.4 Menu 11 – 16: Teach-in hand transmitters

The integral radio receiver can learn up to 150 radio codes.

The radio codes can be distributed across the existing channels.

If more than 150 radio codes are taught in, the codes taught in first are deleted.

If the radio code for a hand transmitter button is taught in for two different functions, the radio code for the function first taught in is deleted.

To teach in a radio code, the following prerequisites must be met:

- The operator is at rest.
- Pre-warning phase is not active.
- Hold-open phase is not active.

Menu 11: Teach in radio code for impulse control:

1. Press the PRG button until the **00** display is illuminated.
2. Press the ^ / v buttons to select the menu **11**.
3. Press the PRG button. On the display, **11** flashes normally.
4. Carry out steps **5** + **6** as described in section 5.1.

To cancel hand transmitter teach-in:

▶ Press the PRG button.

Radio timeout:

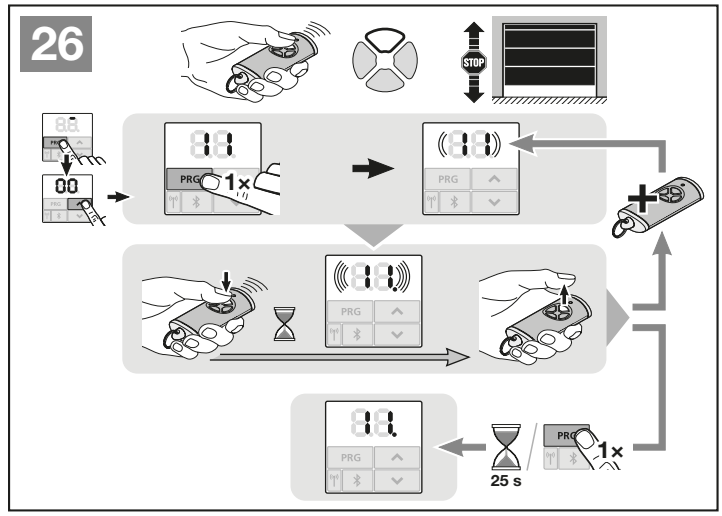
If the timeout (25 seconds) is exceeded while teaching in the hand transmitter, the operator automatically switches to programming mode.

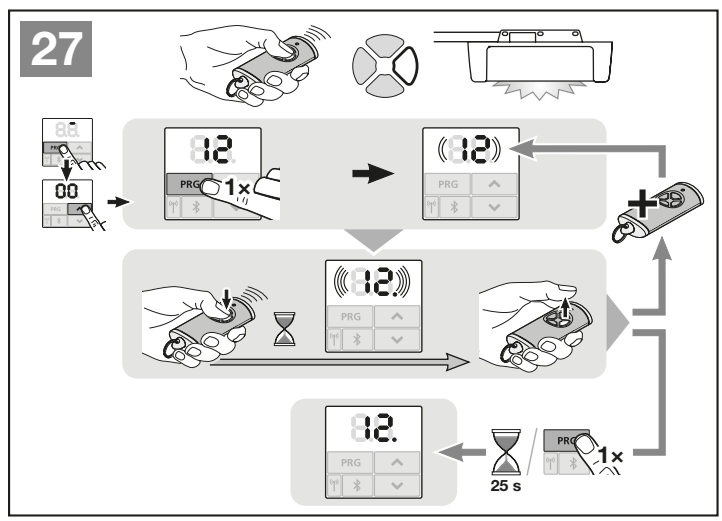
Menu 12: Teach in radio code for light:

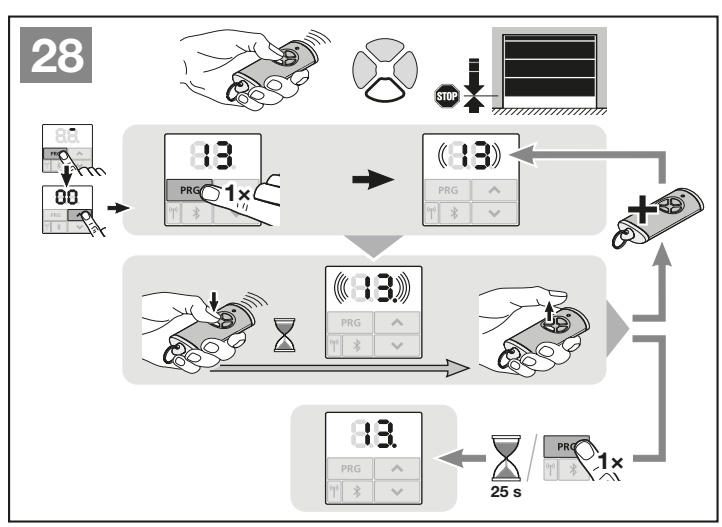
▶ Proceed as with menu **11**.

Menu 13: Teach in radio code for partial opening:

▶ Proceed as with menu **11**.

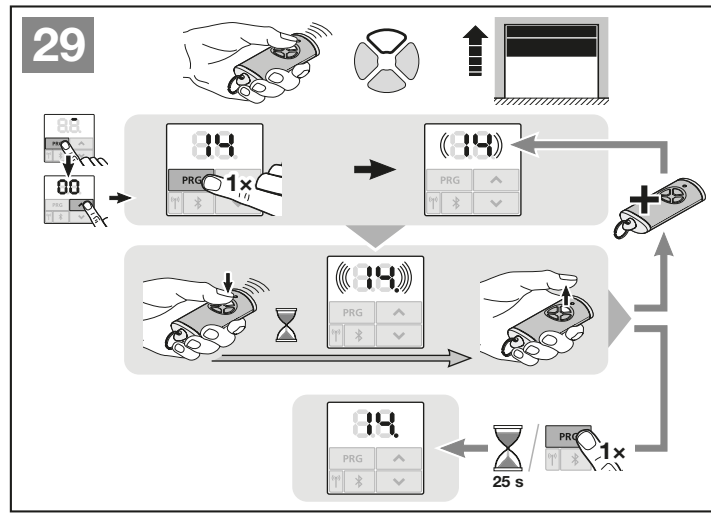






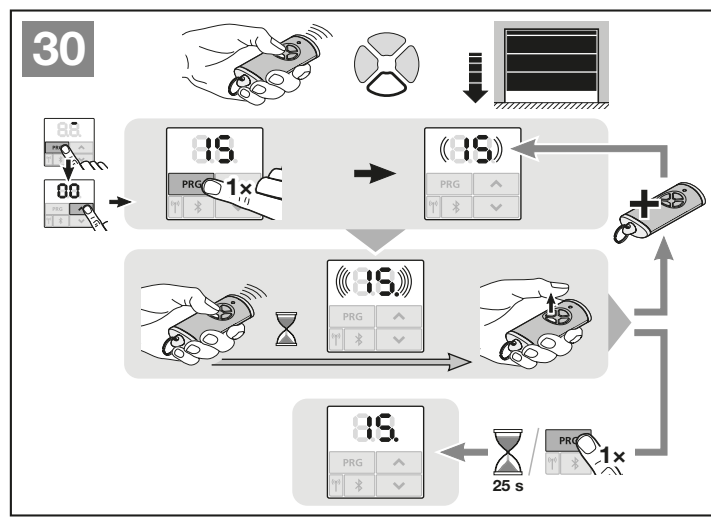
Menu 14: Teach in radio code for choosing OPEN direction:

▶ Proceed as with menu **11**.



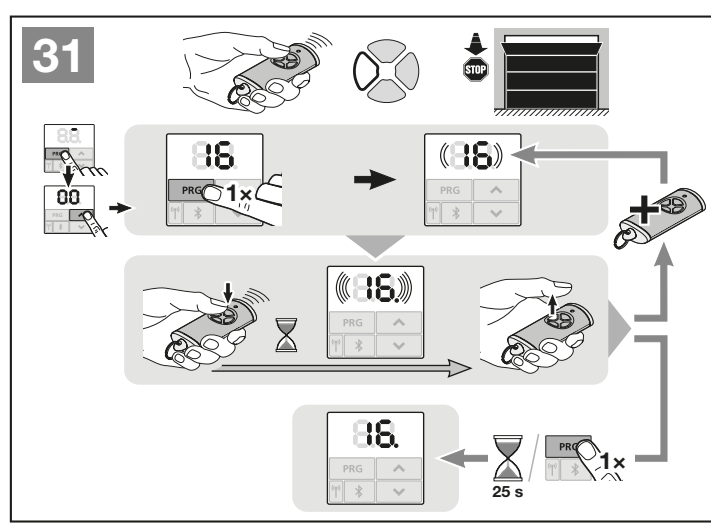
Menu 15: Teach in radio code for choosing CLOSE direction:

▶ Proceed as with menu **11**.



Menu 16: Teach in the radio code for the ventilation position

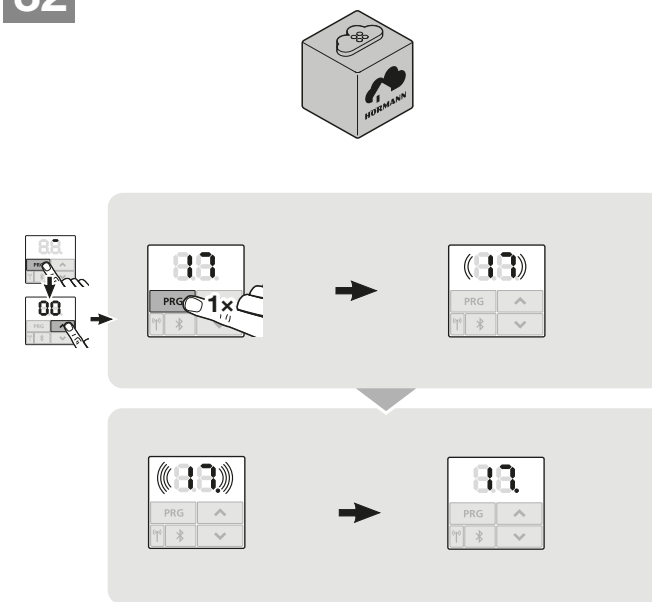
▶ Proceed as with menu **11**.



6.1.5 Menu 17: Teach in all functions

Intended for teach-in on Hörmann Smart Home bases (e.g. Hörmann homee Brain).

32



6.1.6 Menu 19: Delete radio – all functions

The radio codes for individual hand transmitter buttons or individual functions cannot be deleted.

1. Select menu **19**.
   – **00** flashes
2. Select the parameter of the desired function with the ^ + v buttons.

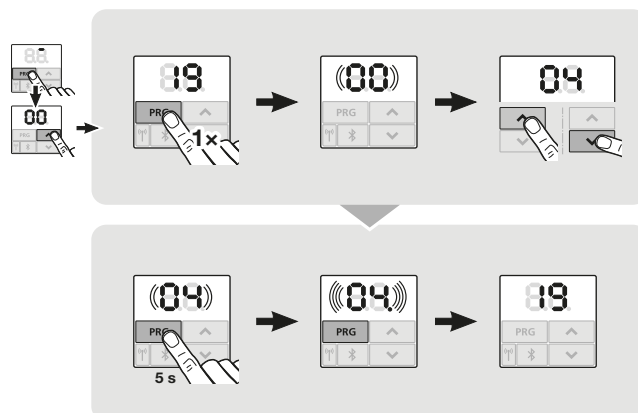
19	Delete radio	
	00	Back without deleting
	01	Radio
	02	Bluetooth®
	03	–
	04	All

   – The selected parameter flashes.
3. Press the PRG button for 5 seconds to confirm deletion.
   – The selected parameter flashes for 5 seconds.
   – The parameter flashes quickly for 2 seconds with decimal point.
   – **19** is illuminated.

NOTE:

If parameter **04** is selected, all functions and the settings of the Bluetooth antenna are deleted.

33



On the menus described in the following:

▶ See also the overview in section 19.

6.1.7 Menu 20: Reversal limit in the CLOSE direction

To prevent false reactions (e.g. unintentional safety reversal), the reversal limit deactivates the closing edge safety device SKS or leading photocell VL just before the CLOSED end-of-travel position is reached.

The reversal limit position depends on the door type and is pre-set to approx. 30 mm slide travel (SKS) and approx. 150 mm slide travel (VL) at the factory.

Sectional door:

Minimum height	Approx. 16 mm slide travel
Maximum height	Approx. 200 mm slide travel

The menu is only visible for a change if a leading photocell is connected to SE 2 and recognised during the learning runs. Parameter **02** must also be set in menu **43**.

▶ Contact your specialist dealer with regard to these settings if necessary.

After the reversal limit has been changed, a function check is required (see section 7.2).

To set / change the reversal limit:

1. Select menu **20**.
2. Press the PRG button 1 ×.
   20 flashes.
3. Press the ^ button *.
   The door opens and stops in the OPEN end-of-travel position. Display **20** continues flashing.
4. Place a test body in the centre of the door (max. 300 × 50 × 16.25 mm, e.g. a folding rule) on the ground so that it is flat on the floor and in the range of the leading photocell.
5. Press the v button.
   The door run in the CLOSE direction starts.
   – The door moves until the test body is detected by the safety device.
   – The position is stored and checked for plausibility.
   – The operator reverses to the OPEN end-of-travel position.

If the procedure was successful:

20. flashes quickly at first and is then permanently illuminated.

If the procedure was not successful:

After reaching the CLOSED end-of-travel position, the door opens again. The door will stop in the OPEN end-of-travel position. Error **1** with flashing decimal point (sub-error **2**) appears and the factory default reversal limit is set. Repeat steps 1 – 5 as needed.

* – If the door is already in the OPEN end-of-travel position, this step is omitted.

If the position of the reversal limit is > 200 mm before the CLOSED end-of-travel position:

Error **1** with flashing decimal point appears, and the door opens and stops in the OPEN end-of-travel position.

▶ Press one of the ^ or v buttons to acknowledge the error.

To abort a reversal run:

▶ Press one of the ^ or v buttons, the PRG button or an external control element with impulse function.
The door stops and error **1** with flashing decimal point appears.

▶ Press one of the ^ or v buttons to acknowledge the error.

NOTICE:

If the error is not acknowledged, it remains on the display.

6.1.8 Menu 21: Wicket door contact monitoring

21	**Wicket door contact**		
	00	Deactivated	
		Wicket door contact without testing	
	01	Wicket door contact with testing	

6.1.9 Menu 22: Belt relief, CLOSE direction

22	**Belt relief in the CLOSE direction**		
	00	Without	
	01	Short	
	02	Medium	
	03	Long	

6.1.10 Menu 23: Change the partial opening or ventilation position

The partial opening and ventilation positions depend on the door type and are pre-set at the factory.

Partial opening

	Approx. 260 mm slide travel before the CLOSED end-of-travel position
Area	Approx. 120 mm slide travel before each end-of-travel position

Ventilation

	100 mm slide travel [1]
Area	35 – 300 mm slide travel before the CLOSED end-of-travel position

[1] 35 mm slide travel, depending on the operator type

The partial opening position can be approached e.g. as follows:

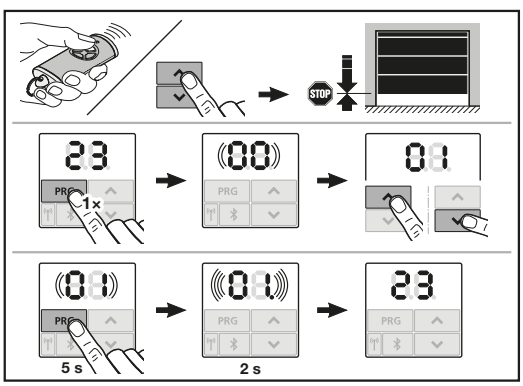
- Via the 3rd radio channel (menu 13)
- An external radio receiver
- Additional print UAP 1-HCP
- An impulse on the terminals 20 / 23
- Via the HKSI-1 climatic sensor
- Via homee Brain
- Via Bluetooth®

The ventilation position can be approached and changed as follows, for example:

- Via the 6th radio channel (menu 16)
- Via the HKSI-1 climatic sensor
- Via additional print UAP 1-HCP, for example
- Via homee Brain
- Via Bluetooth®

NOTES

- The ventilation position can only be changed if at least one **additional** safety device (photocell / leading photocell) is connected in addition to the standard power limit in CLOSE direction.
- A climatic sensor and an **additional** safety device (photocell /leading photocell) must be taught in first. Only then can menu **23 –** parameter **02** be seen and configured.
- If the **additional** safety device (photocell / leading photocell) is deactivated or the CLOSE direction is deselected, the changed ventilation position is reset. Menu **23 –** parameter **02** is hidden and can no longer be set.



To change the partial opening or ventilation position:

1. Using the ^ + v buttons, move the door to the desired position via the taught-in impulse radio code or an external control element with impulse function.
2. Select menu **23**.
   – **00** flashes
3. Select the parameter of the desired function with the ^ + v buttons.

23	Changing the position	
	00	Back without changing
	01	Partial opening position
	02	Ventilation position

   – **01** or **02** flashes
4. Press the PRG button for 5 seconds to save this position.
   – **01** or **02** flashes for 5 seconds.
   – **01 or 02 flashes quickly for 2 seconds with decimal point.**
   – **23** is illuminated.

The changed position is saved.

If the selected position is outside the permitted range, the error 1 appears with a flashing decimal point (see section 17). The factory-set position is set automatically, or the most recent valid position is maintained.

NOTICE

A folding roller bracket from the accessories allows you to ventilate the garage without installing an additional safety device (photocell).

▶ Contact your specialist dealer with regard to fitting and programming.

6.1.11 Menu 25: Operator light deactivated

If menu **25** is activated, the operator light is switched off, even during a door run.

If menu **25** is activated, parameter **01** in menu **30** is also automatically activated.

6.1.12 Menu 26: Illumination period

The operator light switches on as soon as the door is set in motion. Once the door run is complete, the operator light remains on corresponding to the time set (illumination period).

To set the desired function:

▶ Select the menu and the parameter for the desired function as described in section 6.

26	Illumination period		
	00	Deactivated.	
	01	30 seconds	
	02	60 seconds	
	03	120 seconds	⌂
	04	180 seconds	
	05	300 seconds	
	06	600 seconds	

6.1.13 Menu 27: Illumination period for external illumination

The illumination period for a connected external illumination is switched by the operator.

To set the desired function:

▶ Select the menu and parameter for the desired function as described in section 6.

27	Illumination period of the external illumination		
	00	Deactivated.	
	01	As with menu **26** [1]	
	02	60 seconds	
	03	180 seconds	
	04	300 seconds	
	05	600 seconds	

1) ATTENTION: No maintenance display (**In**).

6.1.14 Menu 28: ON time of the external illumination with additional print

If an external light is connected to an option relay HOR 1-HCP or a universal adapter print UAP 1-HCP (3rd relay), it can be switched on permanently via external control elements.

28	Permanent ON – external light		
	00	Deactivated	
	01	Activated	

6.1.15 Menu 29: Operator chase light

Whether the menu is shown and can be selected depends on the operator type.

When the chase light is activated, the operator light indicates the travel direction of the door.

29	Chase light		
	00	Deactivated	
	01	Activated during door run	
	02	Activated during start warning / advance warning	
	03	Activated during door run and start warning / advance warning	
	04	Activated during door run, chase light opposite the direction of travel	
	05	Activated during start warning / advance warning, chase light opposite the direction of travel	
	06	Activated during door run and start warning / advance warning, chase light opposite the direction of travel	

6.1.16 Menu 30: External relay functions

The option relay HOR 1-HCP or universal adapter print UAP 1-HCP (3rd relay) are required to connect an external lamp or warning light.

Further functions, such as OPEN and CLOSE limit switch reporting, choosing direction or operator light, can be switched with the universal adapter print UAP 1-HCP (3rd relay).

To set the desired relay functions:

▶ Select the menu and the parameter for the desired function as described in section 6.

30	External relay functions HOR 1-HCP, UAP 1-HCP (3rd relay)		
	00	Deactivated	
	01	External illumination function [1]	
	02	OPEN limit switch reporting	
	03	CLOSE limit switch reporting	
	04	Partial opening limit switch reporting	
	05	Momentary signal at the time of command	
	06	Error message on the display (malfunction)	
	07	Start warning / advance warning [2] / warning during run / UAP 1-HCP (3rd relay) de-energises in each end-of-travel position Permanent signal	
	08	Start warning / advance warning [2] / warning during run / UAP 1-HCP (3rd relay) de-energises in each end-of-travel position Flashing	
	09	Relay energises during travel and de-energises in each end-of-travel position	
	10	Maintenance interval signal (display **In** flashes 3 × in each end-of-travel position)	
	11	As with menu **26** [1]	

1) ATTENTION: No maintenance display (**In**).
2) Advance warning only if activated in menu 32.

If parameter **00** or **11** is activated in menu **30**, the function in menu **25** is automatically deactivated.

6.1.17 Menu 32: Pre-warning phase

If a travel command is output, the operator light flashes before the door run begins. A warning light connected to the option relay also flashes.

To set the desired function:

▶ Select the menu and the parameter for the desired function as described in section 6.

32	Pre-warning time		
	00	Deactivated If a travel command is output, the door run is started immediately.	
	01	1 second	
	02	2 seconds	
	03	3 seconds	
	04	4 seconds	
	05	5 seconds	
	06	10 seconds	
	07	15 seconds	
	08	20 seconds	
	09	30 seconds	
	10	60 seconds	

6.1.18 Menu 33: Advance warning

In menu **33**, set whether the advance warning time is active in the CLOSE direction or OPEN + CLOSE direction.

33	Advance warning direction		
	00	Advance warning in the CLOSE direction	
	01	Advance warning in the OPEN + CLOSE direction	

6.1.19 Menu 34: Automatic timer

With the automatic timer, the door opens upon a travel command. Once the set hold-open phase and pre-warning phase have elapsed, the door closes automatically.

NOTES

- The automatic timer may/can only be activated within the scope of EN 12453 if at least one **additional** safety device (photocell / leading photocell) is connected in addition to the standard power limit.
- An **additional** safety device (photocell / leading photocell) must be taught in first. Only then can menus **34** - **35** be seen and configured.
- If the automatic timer is set (menus **34** – **35**), the advance warning phase is also automatically activated (menu **32** – parameter **03**).
- If the **additional** safety device (photocell / leading photocell) is deactivated or the CLOSE effective direction is deselected, the menus **34** - **35** are hidden and can no longer be configured.

To set the desired function:

▶ Select the menu and the parameter for the desired function as described in section 6.

34	Automatic timer		
	00	Deactivated	
	01	Hold-open phase of 5 seconds	
	02	Hold-open phase of 10 seconds	
	03	Hold-open phase of 20 seconds	
	04	Hold-open phase of 30 seconds	
	05	Hold-open phase of 60 seconds	
	06	Hold-open phase of 90 seconds	
	07	Hold-open phase of 120 seconds	
	08	Hold-open phase of 180 seconds	
	09	Hold-open phase of 240 seconds	
	10	Hold-open phase of 300 seconds	

6.1.20 Menu 35: Automatic timer from the partial opening position

NOTES

- The automatic timer may/can only be activated within the scope of EN 12453 if at least one **additional** safety device (photocell / leading photocell) is connected in addition to the standard power limit.
- An **additional** safety device (photocell / leading photocell) must be taught in first. Only then can menus **34** - **35** be seen and configured.
- If the automatic timer is set from the partial opening position (menus **34** – **35**), the advance warning time (menu **32** – parameter **03**) is also automatically activated.
- If the **additional** safety device (photocell / leading photocell) is deactivated or the CLOSE effective direction is deselected, the menus **34** - **35** are hidden and can no longer be configured.

To set the desired function:

▶ Select the menu and the parameter for the desired function as described in section 6.

35	Automatic timer – partial opening		
	00	Deactivated	
	01	Hold-open phase as set in menu **34**	
	02	Hold-open phase of 5 minutes	
	03	Hold-open phase of 15 minutes	
	04	Hold-open phase of 30 minutes	
	05	Hold-open phase of 45 minutes	
	06	Hold-open phase of 60 minutes	
	07	Hold-open phase of 90 minutes	
	08	Hold-open phase of 120 minutes	
	09	Hold-open phase of 180 minutes	
	10	Hold-open phase of 240 minutes	

6.1.21 Menu 36: Control buttons on the operator

The ^ + v buttons can be deactivated and activated on the operator. External control elements and the hand transmitter can still be used.

36	Control buttons on the operator		
	00	Deactivated	
	01	Activated	

6.1.22 Menu 37: Reset

37	Reset		
	00	Back without reset	
	01	Reset / BUS scan HCP-BUS	
	02	Reset / parameters of menus 22-36	
	03	Factory reset	

If parameter **01** is selected, accessories connected to the BUS jack are deleted and recognised again.

To perform a BUS scan:

1. Select menu **37**.
2. Press the PRG button 1 ×.
   – **00** flashes.
3. Press the ^ button.
   – **01** flashes.
4. Press the PRG button until **01** begins flashing quickly.
5. Release the PRG button.
   – bUS flashes.
   – A number is illuminated. This number indicates the number of connected BUS participants.

If parameter **02** is selected, all settings of menus **22** – **36** are restored to the factory setting.

If parameter **03** is selected, all settings, taught-in travel and forces are restored to the factory setting. The operator must be taught in again.

▶ Section 5

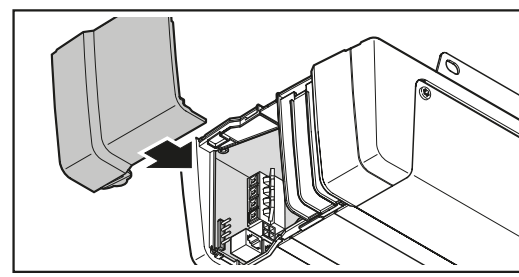
NOTE

Taught-in radio codes and Bluetooth antenna settings are maintained.

7 Final work

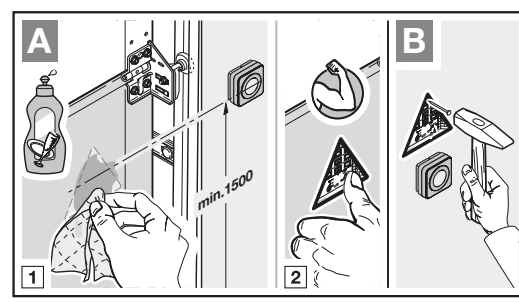
Upon completion of all required steps for initial start-up:

▶ Close the cover.



7.1 Fixing the warning sign

▶ Fix the supplied crushing warning sign in a prominent, cleaned and degreased place, for example near the permanently installed button for moving the operator.



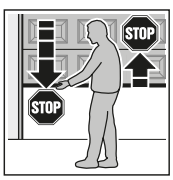
7.2 Function test

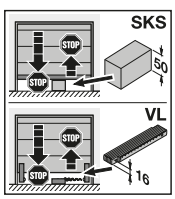
⚠ WARNING

Danger of injuries due to faulty safety equipment
In the event of a malfunction, there is a danger of injuries due to faulty safety equipment.
- ▶ After the learning runs, the person commissioning the system must check the function(s) of the safety equipment.

The system is ready for operation only after this.

To check the safety reversal:





1. Stop the door with both hands while it is **closing**.
   The door system must stop and initiate the safety reversal.
2. Stop the door with both hands while it is **opening**.
   The door system must switch off and take the load off.
3. Position a test object with a height of approx. 50 mm (SKS) or 16 mm (VL) in the centre of the opening and close the door.
   The door system must stop and initiate the safety reversal as soon as it reaches the obstacle.

- ▶ In the event of a failure of the safety reversal, a specialist must be commissioned immediately for the inspection and repair work.

8 Hand transmitter HSE 4 BiSecur



⚠ WARNING

Danger of injury during door travel
Persons may be injured by door travel if the hand transmitter is actuated.
- ▶ Make sure that hand transmitters are kept away from children and can only be used by people who have been instructed on how the remote-control door system functions!
- ▶ If the door has only one safety feature, only operate the hand transmitter if you are within sight of the door!
- ▶ Only drive or pass through remote-control door systems when the door is at a standstill!
- ▶ Never stand in the opening of the door system.
- ▶ Please note that an unwanted door run may occur if a hand transmitter button is accidentally pressed (e.g. if stored in a pocket/handbag).

⚠ CAUTION

Danger of injuries due to unintended door run
An unintended door run may occur while teaching in the radio system.
- ▶ Make sure no persons or objects are in the door's area of travel when teaching in the radio system.

⚠ CAUTION

Danger of burns from the hand transmitter
Direct sunlight or great heat can heat up the hand transmitter. As a result, burns could occur during use.
- ▶ Protect the hand transmitter from direct sunlight and great heat (e.g. by placing it in a stowage compartment in the dashboard).

⚠ CAUTION

Danger of burns from hazardous materials
If you ingest the battery, burns may result from hazardous materials in the battery.
- ▶ Do not ingest the battery and make sure that children cannot get their hands on the battery.

ATTENTION

Functional impairment caused by effects of the environment

High temperatures, water and dirt impair the function of the hand transmitter.

Protect the hand transmitter from the following conditions:

- Direct sunlight (permissible ambient temperature 0°C to +50°C)
- Moisture
- Dust

If you start up, enhance or change the radio system:

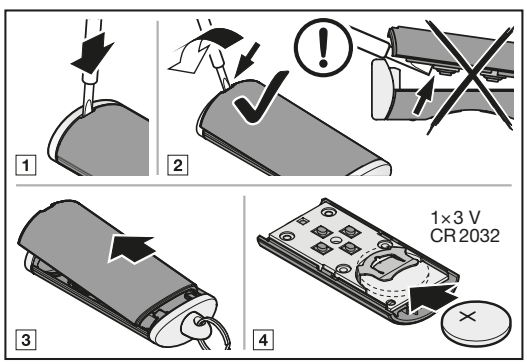
- Only possible if the operator is at rest.
- Perform a function check.
- Only use original parts.
- Local conditions may affect the range of the radio system.

If there is no separate garage entrance, perform all programming changes and extensions of radio systems while standing in the garage.

8.1 Changing the battery

3 V battery, type: CR 2032, lithium

After inserting the battery, the hand transmitter is ready for operation.



⚠ WARNING

Risk of explosion due to incorrect battery type

There is the risk of explosion if the battery is replaced with an incorrect battery type.

▶ *Only* use the recommended battery type.

⚠ WARNING

Danger to life due to internal burns

If you swallow the battery, severe internal burns may result from hazardous materials in the battery. The burns can lead to death within 2 hours.

▶ Do not swallow the battery and make sure that children cannot get their hands on the battery.

ATTENTION

Destruction of the hand transmitter by leaking batteries

Batteries can leak and destroy the hand transmitter.

▶ Remove the battery from the hand transmitter if it is out of use for a long period of time.

8.2 Hand transmitter operation

Each hand transmitter button is assigned to a radio code.

▶ Press the button of the hand transmitter whose radio code you want to transmit.
  – The LED is illuminated blue for 2 seconds.
  – The radio code is transmitted.

NOTICE

If the radio code of the hand transmitter button is inherited from another hand transmitter, press and hold the hand transmitter button until the LED flashes alternately in red and blue and the desired function is performed.

Battery status display on the hand transmitter

The LED flashes red twice; the radio code **continues** to be transmitted.	The battery **should** be replaced soon.
The LED flashes red twice. **Following this, the radio code is** no longer **transmitted.**	The battery **must** be replaced immediately.

8.3 Inheriting/transmitting a radio code

1. Press and hold the button of the hand transmitter whose radio code you want to inherit/transmit.
   – The LED is illuminated blue for 2 seconds and then goes out.
   – After 5 seconds, the LED alternates flashing in red and blue.
   – The hand transmitter button sends the radio code.
2. If the radio code is taught in and recognised, release the hand transmitter button.
   – The LED goes out.

NOTICE

You have 15 seconds to inherit / transmit the radio code. If inheriting/transmitting the code was not successful within this period of time, repeat the process.

8.4 Hand transmitter reset

1. Open the hand transmitter housing.
2. Remove the battery for 10 seconds.
3. Press and hold a hand transmitter button.
4. Insert the battery.
   - The LED slowly flashes in blue for 4 seconds.
   - The LED flashes rapidly in blue for 2 seconds.
   - The LED is illuminated in blue for a prolonged period of time.
5. Release the hand transmitter button.
   All radio codes have been newly assigned.
6. Close the hand transmitter housing.

NOTICE

If you release the hand transmitter button prematurely, no new radio code is allocated.

8.5 LED display

Blue (BU)

State	Function
Illuminated for 2 seconds	A radio code is being transmitted
Flashes slowly	Hand transmitter is in teach-in mode
Flashes quickly after slow flashing	A valid radio code was detected during the teach-in procedure
Flashes slowly for 4 seconds, Flashes quickly for 2 seconds Illuminated for a prolonged period	Reset is being performed and completed

Red (RD)

State	Function
Flashes 2 ×	The battery is almost empty

Blue (BU) and Red (RD)

State	Function
Flashing alternately	Hand transmitter is in inherit / transmit mode

8.6 Cleaning the hand transmitter

ATTENTION

Damaging the hand transmitter by faulty cleaning

Cleaning the hand transmitter with unsuitable cleaning agents can damage the hand transmitter housing and the hand transmitter buttons.

▶ Clean the hand transmitter with a clean, soft, damp cloth.

NOTICE

White hand transmitter buttons can change their colour when used regularly over an extended period of time, if they come in contact with cosmetic products (e.g. hand cream).

8.7 Disposing of electrical and electronic devices



Electrical and electronic devices must not be disposed of in household rubbish, but must be returned to the appropriate recycling facilities.

8.8 Disposing of batteries



Do not put batteries in the household waste! Each consumer is legally required to leave batteries with a collection point in their community, their district, or with a trader, so that they can be disposed of in an environmentally-friendly way.

8.9 Technical data

Type	Hand transmitter HSE 4 BiSecur
Frequency	868 MHz
Radiant power	max. 10 mW (EIRP)
Power supply	1 × 3 V battery, type CR 2032, lithium
Perm. ambient temperature	0 °C to + 50 °C
Max. humidity	93%, non-condensing
Protection category	IP 20

8.10 EU declaration of conformity for the hand transmitter

The manufacturer of this operator herewith declares that the provided hand transmitter complies with EU Directive Radio Equipment 2014/53/EU.

The complete declaration of conformity can be found in the enclosed log book or requested from the manufacturer.

9 Bluetooth®

The garage door operator is equipped with a Bluetooth receiver. The operator can be operated via Bluetooth® using the corresponding BlueSecur application (app) on a smartphone.

9.1 BlueSecur application (app)

The BlueSecur app is available free of charge in the App Store℠ or from Google™ Play.

▶ Install the BlueSecur app on your smartphone.

9.1.1 System requirements

Operating system		Software version
Android	Smartphone	from 5
iOS	Smartphone	from 9

9.1.2 App authorisations

In order to use the full functionality of the app, you must allow the following authorisations:

Camera		To scan the QR code.
Bluetooth®		For the communication between app and receiver.
Location	Android	For the Bluetooth function.

9.1.3 User roles

Admin	The **first** user who connects with the receiver via the QR code. One other admin can be added.
	Allocates access rights (keys) for users.
	Can delete access rights (keys) for users.
	Can adjust relay settings.
User	Receive access rights (keys) from the admin.

9.1.4 App functions

In the app, you can select the functions (impulse, lighting, partial opening, choosing OPEN and CLOSE direction and ventilation position) and notifications. The factory setting is the impulse function.

Trigger a command

When the user is within range of the Bluetooth receiver, a command can be triggered using the app.

9.1.5 Delete device

If the garage door operator is deleted in the app using the dustbin icon, you can no longer operate the operator using the smartphone. However, the smartphone is still saved in the operator.

If you want to remove the smartphone from the operator, select parameter **02** in menu **19** and delete all Bluetooth devices (see section 6.1.6).

9.1.6 Backup

To avoid losing data, you can create a backup on the Hörmann server. Saved data can be accessed there at any time.

To create a backup, you must first register.

All of the following data existing up to this point will be saved:

- Devices (garage door operators)
- Purchased sets of keys
- Distributed keys

A backup is necessary for restoring data, if, for example,

- the admin changes the smartphone,
- a reset is to be performed,
- the smartphone is defective or lost.

A backup is strongly recommended to secure the data.

9.2 Enabling / disabling Bluetooth®

If Bluetooth® is disabled:

1. Briefly press the ᛒ button on the operator control panel.
   Bluetooth® is enabled and in receiver mode. The Bluetooth® symbol flashes.
2. A connection can be established. The Bluetooth receiver remains in receiver mode for 5 minutes and then switches back to operation mode. The Bluetooth® symbol is illuminated.
3. Briefly press the ᛒ button on the operator control panel.
   Bluetooth® is disabled. The Bluetooth® symbol is off.
4. To enable it again, repeat step 1.

9.3 Configuring Bluetooth®

The first user that connects with the Bluetooth receiver using the supplied QR code is the admin. This procedure can only be performed once!

1. Make sure that you are in range of the Bluetooth receiver and that Bluetooth® is enabled.
2. Start the app.
3. Select the **Teach in** field (iOS) or the **+** symbol (Android).
   The camera opens.
4. Scan the QR code on the supplied key card.
   The first user is connected with the Bluetooth receiver as the admin.
5. Assign a name to the device.

The Bluetooth receiver is in operation mode.

Keep the key card in a safe place. The key card will be required if you need to set up the Bluetooth receiver again at a later stage.

9.4 Operation

A connection to the Bluetooth receiver is always established exclusively through communication with the app, e.g. for triggering a command, adjusting settings in the app or user management.

Only one smartphone can be connected to the Bluetooth receiver at a time. A connection takes approx. 1 second. Only after this can the next smartphone connect to the receiver.

9.4.1 Range

Range and performance are highly dependent on the smartphone. For communication with the receiver, the user must be in range to perform the following actions:

- Trigger a command
- Set up and manage devices
- Delete devices
- Delete user authorisations

9.4.2 Synchronising

The date and time is synchronised in the receiver with each communication of the admin's smartphone with the receiver.

9.4.3 Power failure

Taught-in keys, user data and settings are saved in a power failure-proof manner.

9.4.4 Loss of the smartphone

In the event that the smartphone is lost, unauthorised parties could have access to the garage door. In this case, select menu **19 –** parameter **02** and delete the device from the Bluetooth receiver (see section 6.1.6).

9.5 Keys

9.5.1 Purchasing sets of keys

In order to distribute keys, the admin must purchase sets of keys using the in-app purchase function. Payment is made according to the App Store℠ or Google™ Play policies.

One-time keys are free of charge.

9.5.2 Distributing keys

The admin can distribute keys to users via all installed messaging services, e.g. e-mail, Facebook Messenger, iMessage, WhatsApp, etc.

The admin can only distribute a key **once** to another admin.

The admin can distribute a maximum of 15 one-time keys simultaneously.

NOTE

The BlueSecur app must be installed on the smartphone to use the key. If users have not installed the app upon receiving a key, they will be directed to download it from the App Store℠ or Google™ Play.

Key type	Validity
Admin key	Always valid
User key	Always valid or just for a defined time period
One-time key	Valid only once and within a maximum of 1 month

The admin has 2 options for defining the time of validity for one-time keys:

1. The one-time key is valid immediately and can be used just once, within 1 month.
2. The one-time key is valid from a defined date and can be used just once, within 1 month.

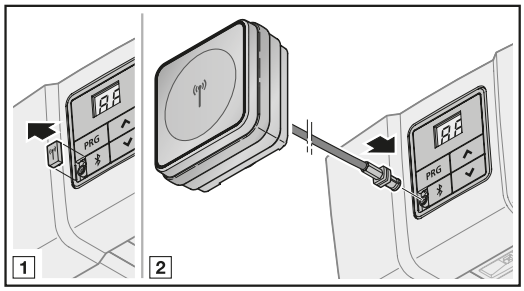
Safety when distributing keys
When the admin distributes a key to a user, for security reasons, the user must authenticate himself/herself using a PIN generated by the server. The user must enter this PIN before the key can be provided to him/her.

9.5.3 Admin key

Admin keys cannot be deleted, not even by the 1st admin. If you want to delete an admin key, select menu **19 –** parameter **02** and delete the device from the Bluetooth receiver (see section 6.1.6).

If an admin key has been distributed by the 1st admin, the 2nd admin must be in range of the receiver to import the key. Once the receiver has recognised the valid admin key, the rights can be used.

9.6 External Bluetooth antenna*



An external antenna is recommended in the event of a limited range.

You must configure an external antenna in the app settings. The factory setting is the internal antenna.

9.7 EU Declaration of Conformity for Bluetooth Receivers

The manufacturer of this operator herewith declares that the integrated Bluetooth receiver complies with EU Directive Radio Equipment 2014/53/EU.

The complete declaration of conformity can be found in the enclosed log book or requested from the manufacturer.

9.8 Open source license

The following open source software is included with this product:

mbed TLS 2.16.1 (https://tls.mbed.org)

Copyright 2006-2018, ARM Limited, all rights reserved

This software is licensed under Apache license version 2.0 (the “license”); you may only use this file in accordance with the license. You can get a copy of the license from http://www.apache.org/licenses/LICENSE-2.0

Unless required by law or agreed in writing, the software is used under the license “as provided” or “as available” without any promises, guarantees or conditions, neither explicit nor implicit.

You will find information on specific language-relevant rights and restrictions in the license, whose complete text you will find in the corresponding “BlueSecur” app.

10 External receivers*

10.1 Radio receiver ESE BiSecur

If the range is limited, the following functions can be controlled with an external radio receiver:

- Impulse
- Operator light
- Partial opening
- Choosing OPEN direction
- Choosing CLOSE direction

If an external radio receiver is retrofitted, be sure to delete the radio codes for the integrated radio module.

▶ Section 6.1.6

10.2 Teaching in a radio code on the external radio receiver

▶ Teach in the radio code for a hand transmitter button using the operating instructions for the external receiver.

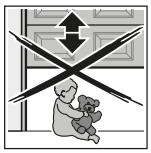
10.3 EU Declaration of Conformity for Receivers

The manufacturer of this operator herewith declares that the integrated receiver complies with EU Directive Radio Equipment 2014/53/EU.

The complete declaration of conformity can be found in the enclosed log book or requested from the manufacturer.

* – Accessory, not included as standard equipment!

11 Operation





⚠ WARNING

Danger of injury during door travel

If people or objects are in the area around the door while the door is in motion, this can lead to injuries or damage.

- ▶ Children are not allowed to play near the door system.
- ▶ Make sure that no persons or objects are in the door's area of travel.
- ▶ If the door system has only one safety feature, only operate the garage door operator if you are within sight of the door's area of travel.
- ▶ Monitor the door travel until the door has reached the end-of-travel position.
- ▶ Drive or walk through the door openings of remote-controlled door systems only when the garage door is in the OPEN end-of-travel position!
- ▶ Never stand under the open door.

⚠ CAUTION

Danger of crushing in the boom

Do not reach into the boom with your fingers during a door run, as this can cause crushing.

- ▶ Do not reach into the boom during a door run

⚠ CAUTION

Danger of injury from the cord knob

If you hang on the cord knob, you may fall and injure yourself. The operator could break away and injure persons or damage objects that are located underneath, or the operator itself could be destroyed.

- ▶ Do not hang on the cord knob with your body weight.

⚠ CAUTION

Danger of injury resulting from uncontrolled door travel in the CLOSE direction if one of the counterbalance springs breaks and the slide carriage is released.

If a retrofit set is not installed, uncontrolled door travel in the CLOSE direction may occur if the slide carriage is released while a counterbalance spring is broken, the door is improperly balanced or the door is not completely closed.

- ▶ The responsible fitter must install a retrofit set on the slide carriage if the following applies:
  - – The standard DIN EN 13241-1 applies
  - – The garage door operator is retrofitted to a Hörmann **sectional door without spring safety device (BR30)** by a technical expert.

This set includes a screw that secures the slide carriage against uncontrolled unlocking as well as a new cord knob sign with images showing how the set and the slide carriage should be handled for the two operation modes of the boom.

NOTICE

The use of an emergency release or an emergency release lock is **not possible** in conjunction with the retrofit set.

ATTENTION

Damage due to the cord of the mechanical release

If the cord of the mechanical release becomes caught on a roof rack system or any other protrusions of the vehicle or door, this can lead to damage.

- ▶ Make sure that the cable cannot become caught.

11.1 Instructing users

The operator may be used by

- children over 8 years of age
- persons with limited physical, sensory or mental capabilities
- persons with a lack of experience or knowledge.

The condition for use of the operator is that the above-mentioned children / persons

- are supervised
- instructed on safe use
- understand the resulting dangers.

Children must not play with the operator.

- ▶ All persons using the door system must be shown how to operate the garage door operator properly and safely.
- ▶ Demonstrate and test the mechanical release as well as the safety reversal.

11.1.1 Cord knob mechanical release

The cord knob for mechanical release may not be installed at a height greater than 1.8 m from the garage floor. The cord may need to be extended on-site, depending on the height of the garage door.

▶ When extending the cord, please make sure that the cord cannot become caught on a roof rack system or any other protrusions of the vehicle or door.

⚠ WARNING

Danger of injury due to a fast-closing door

If the cord knob is actuated while the door is closing, the door may close quickly due to weak, broken springs or faulty counterbalance.

▶ Only pull the cord knob when the door is closed.

▶ Pull the cord knob when the door is closed. The door is now unlocked and should be easy to open and close by hand.

11.1.2 Mechanical release by emergency release lock:

(Only for garages without a second entrance)

▶ When the door is closed, actuate the emergency release lock. The door is now unlocked and should be easy to open and close by hand.

11.2 Functions of various radio codes

Each hand transmitter button is assigned to a radio code. To operate the operator with the hand transmitter, the radio code for the respective hand transmitter button must be taught in to the channel of the desired function on the integral radio receiver.

▶ Section 6.1.4

NOTICES

- If the radio code of the hand transmitter button is inherited from another hand transmitter, press and hold the hand transmitter button until the LED flashes alternately in red and blue and the desired function is performed.
- If the operator recognises an inherited radio code that has not yet been taught into the integrated radio receiver, the operator automatically changes to learning mode for 10 seconds. **11**, **12**, **13**, **14, 15** or **16** flashes on the display.

11.2.1 Channel 1/impulse

In normal operation, the garage door operator works with the impulse sequence control.

Pressing the corresponding hand transmitter button, the ⌃ button or an external button triggers the impulse.

1st impulse: The door runs towards an end-of-travel position.
2nd impulse: The door stops.
3rd impulse: The door runs in the opposite direction.
4th impulse: The door stops.
5nd impulse: The door runs in the direction of the end-of-travel position selected in the 1st impulse.
etc.

11.2.2 Channel 2 / lighting

Pressing the corresponding hand transmitter button for light switches the operator light on and off prematurely.

11.2.3 Channel 3 / partial opening

If the door is **not in the partial opening position**, the hand transmitter button with the radio code for partial opening triggers a door run to this position.

If the door is in the **partial opening position**, the hand transmitter button triggers the following:

- A door run in the CLOSE end-of-travel position with the radio code for partial opening.
- A door run in the OPEN end-of-travel position with the radio code for impulse.

11.2.4 Channel 4 / choosing OPEN direction

The hand transmitter button with the radio code for OPEN position triggers the impulse sequence (Open – Stop – Open – Stop) for a door run to the OPEN end-of-travel position.

11.2.5 Channel 5/choosing CLOSE direction

The hand transmitter button with the radio code for CLOSE position triggers the impulse sequence (Close – Stop – Close – Stop) for a door run to the CLOSE end-of-travel position.

11.2.6 Channel 6 / ventilation

If the door is **not in the ventilation position**, the hand transmitter button with the radio code for ventilation triggers a door run to this position.

If the door is in the **ventilation position**, the hand transmitter button triggers the following:

- A door run in the CLOSED end-of-travel position with the radio code for ventilation.
- A door run in the OPEN end-of-travel position with the radio code for impulse.

11.2.7 Channel 7 / all functions

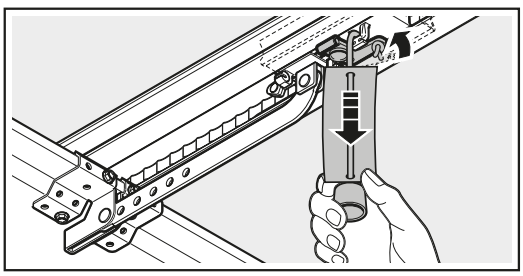
Intended for Hörmann Smart Home bases (e.g. Hörmann homee Brain).

11.3 Garage door operator behaviour after 3 fast OPEN door runs in a row

The motor of the garage door operator is equipped with thermal overload protection. If the operator performs 3 fast runs in the OPEN direction within 2 minutes, the overload protection reduces the travel speed in the OPEN direction. Runs in the OPEN and CLOSE direction are then performed at the same speed. After an idle time of another 2 minutes, the next run in the OPEN direction is then once again fast.

11.4 Behaviour during a power failure (without an emergency battery)

During a power failure, you have to open and close the door system by hand. For this, you have to disengage the operator.

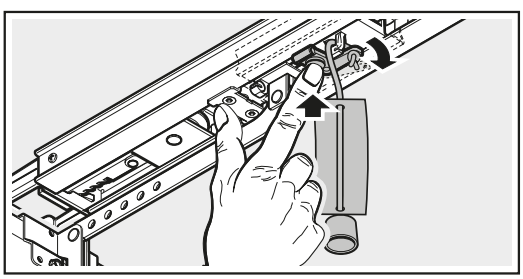


▶ Pull on the cord of the mechanical release. The slide carriage is disengaged for manual operation.

11.5 Behaviour after the power returns (without emergency battery)

After the power returns, 88. flashes until all the taught-in radio codes are loaded.

After the power returns, you have to re-engage the operator for automatic operation.



▶ Push the green button on the slide carriage. The slide carriage is re-engaged for automatic operation.

11.6 Reference run

Display 88.

A reference run is required:

- If the power limit is activated 3 × in a row during a run in the CLOSE direction.
- In case of a power failure during a door run.

A reference run is performed:

- Only in the OPEN direction. The operator light and display flash.



- At a reduced speed.
- With a minor increase in force of the most recently taught-in forces.

The impulse command triggers the reference run. The operator moves to the OPEN end-of-travel position.

12 Inspection and maintenance

The garage door operator is maintenance-free.

In the interest of your own safety, however, we recommend having the door system inspected and maintained **annually** by a qualified person in accordance with manufacturer specifications.

⚠ WARNING

Danger of injury due to unexpected door run

An unexpected door run may occur during inspection and maintenance work if the door system is inadvertently actuated by other persons.

▶ Disconnect the mains plug **and** the plug of the emergency battery whenever performing work on the door system.

▶ Safeguard the door system against being switched on again without authorisation.

Inspection and repairs may only be carried out by a qualified person. If necessary, contact your specialist dealer.

A visual inspection may be carried out by the operator.

▶ Check all safety and protective functions **monthly**.

▶ Check all safety devices without self-testing **every six months**.

▶ Any malfunctions and/or defects must be remedied **immediately**.

Do not allow children to clean or maintain this operator without supervision.

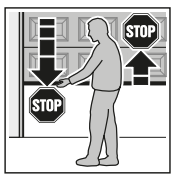
12.1 Tension of the toothed belt

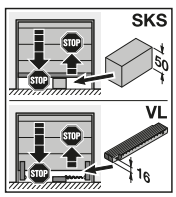
The toothed belt of the boom is tensioned optimally at the factory.

During the start-up and slow-down phase, with larger doors the toothed belt may briefly hang out of the boom profile. However, this does not constitute a technical malfunction and does not negatively affect the function and service life of the operator.

12.2 Checking safety reversal / reversing

To check safety reversal / reversing:

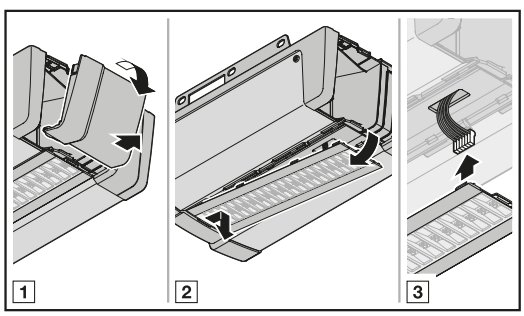




1. Stop the door with both hands while it is **closing**.
   The door system must stop and initiate the safety reversal.
2. Stop the door with both hands while it is **opening**.
   The door system must switch off and take the load off.
3. Position a test object with a height of approx. 50 mm (SKS) or 16 mm (VL) in the centre of the opening and close the door.
   The door system must stop and initiate the safety reversal as soon as it reaches the obstacle.

▶ In the event of a failure of the safety reversal, a specialist must be commissioned immediately for the inspection and repair work.

12.3 Change the light module



Type	Operator light module
Nominal power	4.9 W – 30 LEDs 3.3 W – 20 LEDs
Nominal voltage	37 V

When the operator light is on, a voltage of 37 V DC is applied.

▶ Only exchange the operator light when the operator is not energised.

13 Dismantling and disposal

NOTICE

When dismantling the system, observe the applicable job safety rules and regulations.

Have a specialist dismantle the garage door operator in the reverse order of these instructions and dispose of it properly.

13.1 Disposing of the packaging

Dispose of the packaging sorted by materials:
- Cardboard and paper in the paper recycling
- Film in the mixed recycling

13.2 Disposing of electrical and electronic devices

Electrical and electronic devices must not be disposed of in household rubbish, but must be returned to the appropriate recycling facilities.

14 Warranty conditions

Warranty period

In addition to the statutory warranty provided by the dealer in the sales contract, we grant the following warranty for parts from the date of purchase:

- 5 years on operator technology, motor and motor control
- 2 years on radio equipment, accessories and special systems

Claims made under the warranty do not extend the warranty period. For replacement parts and repairs the warranty period is six months or at least the remainder of the warranty period.

Prerequisites

The warranty claim only applies in the country where the equipment was purchased. The product must have been purchased through our authorised distribution channels. A claim under this warranty exists only for damage to the object of the contract itself.

The receipt of purchase substantiates your right to claim under the warranty.

Services

For the duration of the warranty we shall eliminate any product defects that are proven to be attributable to a material or manufacturing fault. We pledge to replace free of charge and at our discretion the defective goods with non-defective goods, to carry out repairs, or to grant a price reduction. Replaced parts become our property.

Reimbursement of expenditure for dismantling and fitting, testing of parts as well as demands for lost profits and compensation for damages are excluded from the warranty.

Damage caused by the following is also excluded:

- Improper fitting and connection
- Improper initial start-up and operation
- External factors such as fire, water, abnormal environmental conditions
- Mechanical damage caused by accidents, falls, impacts
- Negligent or intentional destruction
- Normal wear or deficient maintenance
- Repairs conducted by unqualified persons
- Use of non-original parts
- Removal or defacing of the data label

15 EC / EU Declaration of Conformity / Declaration of Incorporation

(as defined in EC Machinery Directive 2006/42/EC according to Annex II, Part 1 A for a complete machine or Part 1 B for incorporation of an incomplete machine).

For the end user to fit this garage door operator, only a combination with specifically approved door types is permitted. These door types can be found in the complete EC/EU Declaration of Conformity in the provided log book.

However, if this garage door operator is not combined with an approved door type, the fitter will be considered a manufacturer of the complete machine.

In this case, fitting may only be done by a fitting company, as only they have knowledge of the relevant safety regulations, valid directives and standards, as well as the required testing and measuring devices.

The appropriate Declaration of Incorporation can also be found in the provided log book.

16 Technical data

Mains voltage	230 / 240 V, 50 / 60 Hz
Standby	< 1 W
Frequency	• Radio system: 868 MHz • Bluetooth: 2.4 GHz
Permissible ambient temperature	-20 °C to +60 °C
Max. humidity	93%, non-condensing
Protection category	Only for dry rooms
Automatic safety cut-out	Is automatically taught in for both directions separately
End-of-travel position cut-out / power limit	• Self-learning • Wear-free, as it has no mechanical switches • Additionally integrated travel time limit of 90 s, side sliding sectional door 180 s • Automatic safety cut-out, readjusting at every door run.
Rated load	See data label
Pull and push force	See data label
Motor	Direct current motor with hall sensor
Switching power supply	With thermal protection
Connection	• Screw terminal for external devices with protective low voltage, such as internal and external push buttons with impulse operation • Screwless connection technology for external 2-wire buttons and photocells
Special functions	• Photocell or closing edge safety device can be connected • Option relay, adapter print and additional HCP BUS participants can be connected
Quick release	For manual operation, actuate from inside with the cord of the mechanical release
Universal fittings	For up-and-over doors and sectional doors
Door travel speed	• Max. 14 cm/s[1)] for travel in the CLOSE direction • Max. 25 cm/s[1)] for travel in the OPEN direction
Airborne sound emission of the garage door operator	≤ 70 dB (A)
Side guide	• Extremely flat with 30 mm • With integrated anti-lift kit • With maintenance-free toothed belt

1) Depending on operator type, door type, door size and door leaf weight

17 Displaying errors, warnings and operating modes

17.1 Operator light messages

Status	Function
Flashes slowly	Learning run or reference run is being performed
Flashes once	Factory reset successful
Flashes 2× once	The operator has not been taught in (delivery condition)
Flashes 3× once	During the pre-warning phase
	Maintenance interval has been reached

17.2 Display of errors and warnings

Display	Error/warning	Possible cause	Remedy
8.8 1	Not possible to set the reversal limit	When setting the SKS / VL reversal limit, an obstacle is in the way	Remove the obstacle
		The position of the reversal limit is > 200 mm before the CLOSE end-of-travel position	Pressing the ^ or v button acknowledges the error. Select a position < 200 mm before the CLOSE end-of-travel position
		The test body was not recognised when setting the SKS / VL reversal limit.	Repeat the setting of the reversal limit.
	Setting the partial opening position not possible	The partial opening position is too close to the end-of-travel positions (≤ 120 mm slide travel)	The partial opening position must be > 120 mm
	Setting the ventilation position not possible	The ventilation position is outside of the permitted range	The ventilation position must be 35 – 300 mm slide travel before the CLOSED end-of-travel position
	Door teach-in not possible	The taught-in travel path is too short	Increase the distance between the end stops
8.8 2	Safety equipment on SE1	No safety devices are connected	Connect a safety device.
			Deactivate the safety device in the menu by performing a reset (menu 37).
		The safety device signal is interrupted before travel	Set / position the safety device
			Check the connecting leads and, if necessary, replace them
		The safety device is defective	Replace the safety device
8.8 3	Power limit in the CLOSE direction	The door is too sluggish or does not move smoothly	Correct the door travel
		Obstacle in door area	Remove the obstacle and teach in the operator again, if necessary
8.8 4	Static current circuit interrupted	The wicket door is open	Close the wicket door
		The magnet has been fitted the wrong way	Fit the magnet correctly (see the instructions for the wicket door contact)
		The testing result is not OK	Exchange the wicket door contact
		Static current circuit interrupted on the accessory connected to the BUS jack.	Check accessory on the BUS jack

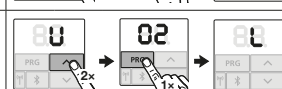
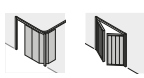
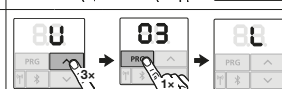
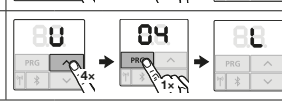
Display	Error/warning	Possible cause	Remedy
	Power limit in the OPEN direction	The door is too sluggish or does not move smoothly	Correct the door travel
		Obstacle in door area	Remove the obstacle and teach in the operator again, if necessary
	System error	Internal error	Perform a factory reset and teach in the operator again; if necessary, replace it
	Travel time limit	The belt is torn	Exchange the belt
		The operator is defective	Exchange the operator
	Communication error	Communication with control element or additional print is faulty	Check the connecting leads and, if necessary, replace them
			Check the control element or additional print and, if necessary, replace them.
			Performing a BUS scan (see section 6.1.22)
	Control elements/ operation	Error during input	Check and change the input
		Input of invalid value	Check and change the input value
	Travel command not possible	The operator was locked for the control elements and a travel command was issued	Release the operator for the control elements
			Check the IT3b connection
	Specific to taught-in safety devices	Self-testing safety device is interrupted	Check the safety device and, if necessary, replace it
		Closing edge safety device/leading photocell actuated	Remove the obstacle
		Closing edge safety device/leading photocell defective or not connected	Check the closing edge safety device / leading photocell, exchange or connect as needed
	Voltage error (over / undervoltage)	In battery operation: signalling In the event of power supply undervoltage: Internal error without signalling	Charge battery, check voltage source
	Spring	Spring tension decreasing	Check and adjust the spring tension
		Spring break	Exchange the springs
	No reference point	The power limit was activated in the CLOSE direction 3 × in a row.	Move the door to the OPEN end-of-travel position
		Power failure during a door run	
	The operator has not been taught in	No error The operator has not been taught in yet	Teach in the operator (see section 5)
	Maintenance interval signal (display **In** flashes 3 × in each end-of-travel position)	No error The maintenance interval set by the fitter has been exceeded.	Have the door system inspected and maintained by a qualified person in accordance with manufacturer specifications.

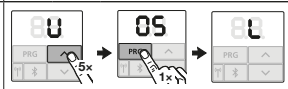
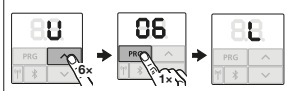
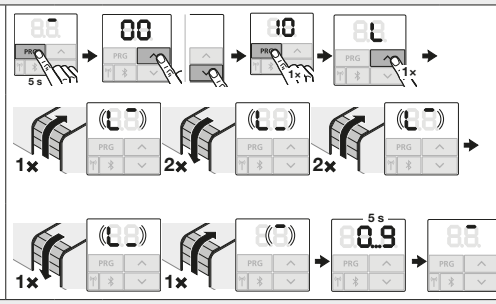
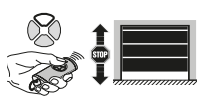
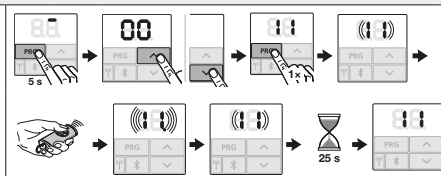
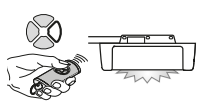
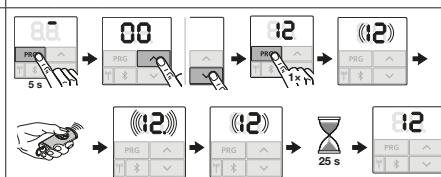
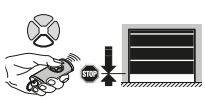
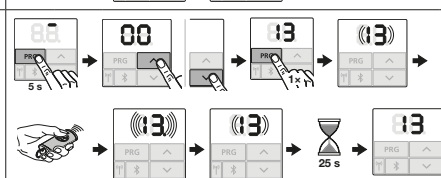
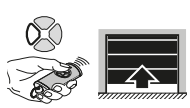
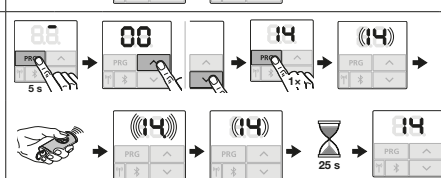
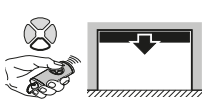
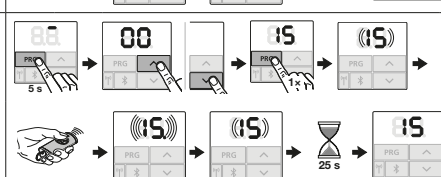
18 Operating condition display

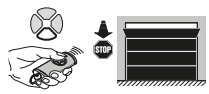
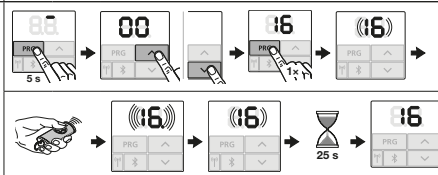
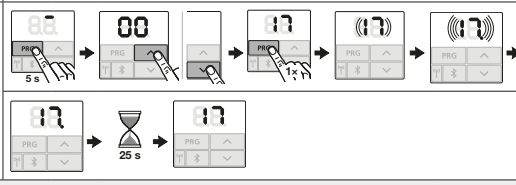
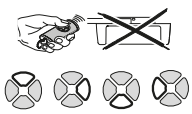
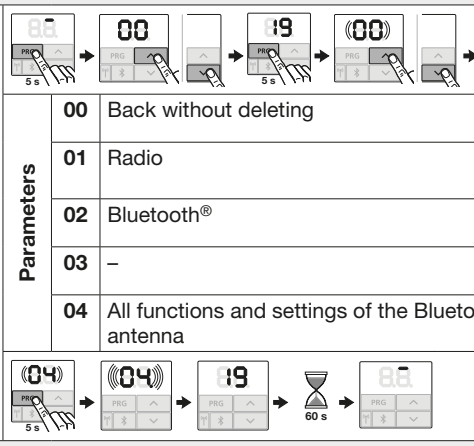
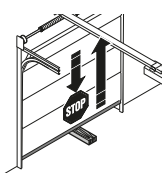
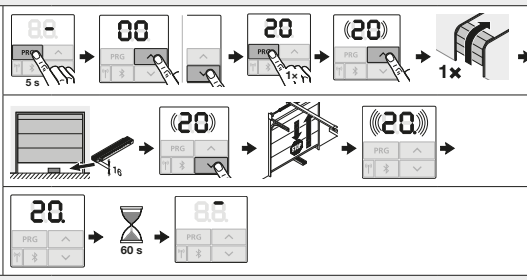
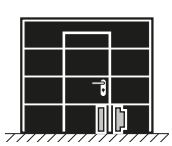
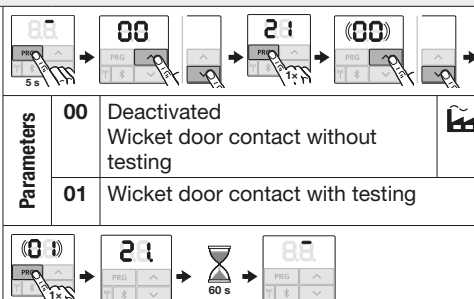
U	The operator has not been taught in	L	Learning runs are necessary
L	The operator performs the required learning run in the CLOSE direction	L	The operator performs the required learning run in the OPEN direction
-	The operator is in the OPEN end-of-travel position	_	The operator is in the CLOSE end-of-travel position
-	1. The operator moves in the OPEN direction 2. The automatic timer is active	_	The operator moves in the CLOSE direction
-	1. The operator is in the OPEN end-of-travel position 2. The pre-warning phase is active	_	1. The operator is in the CLOSE end-of-travel position 2. The pre-warning phase is active
-	The operator is in an intermediate position	-	1. The operator is in an intermediate position 2. The pre-warning phase is active
H	The operator is in the partial opening position	H2	The operator is in the ventilation position
H	The operator moves to the partial opening position 1. The operator is in the partial opening position 2. The automatic timer is active	H2	The operator moves to the ventilation position
H	1. The operator is in the partial opening position 2. The pre-warning phase is active	H2	1. The operator is in the ventilation position 2. The pre-warning phase is active
	Impulse input from a radio code (flashes 1 ×) Standby (flashes continuously)		Sends the door position feedback to the hand transmitter (flashes 1×)
b.S.	Performing BUS scan		

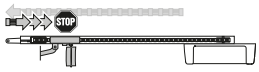
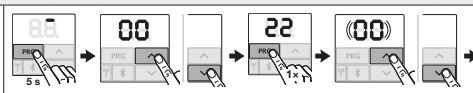
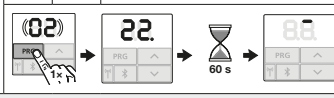
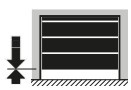
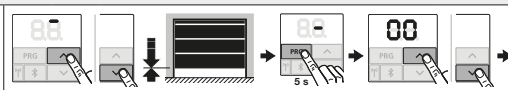
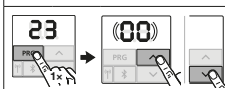
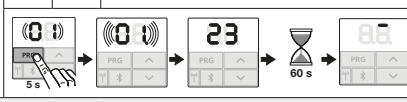
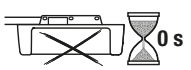
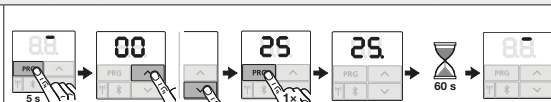
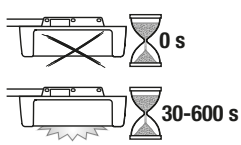
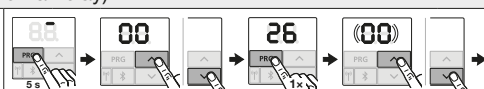
19 Menu and programming overview

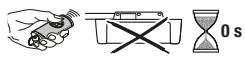
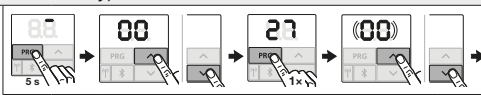
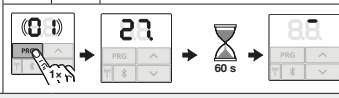
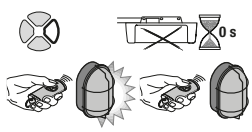
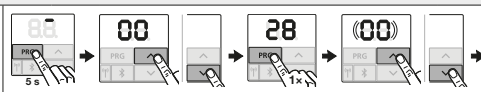
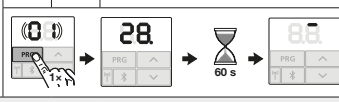
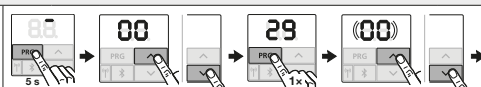
The listed factory settings apply to **sectional doors**.

Symbol	Menu	Act		Notice
	00			Open / exit programming mode
Selecting a door type				
	01			
	02			Default settings such as speed, soft stop, reversing behaviour of the safety devices, reversal limit etc. are pre-set)
	03			
	04		ET 100	

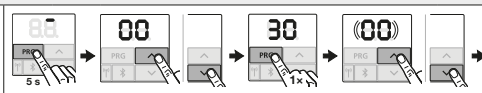
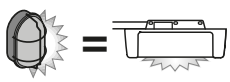
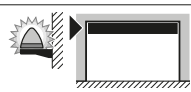
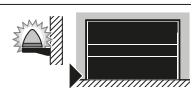
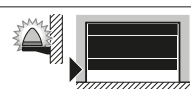
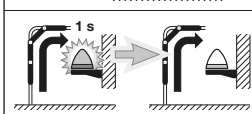
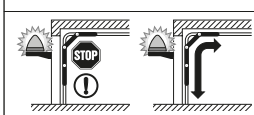
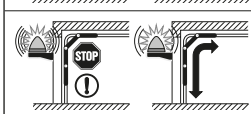
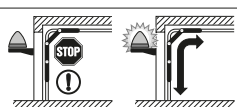
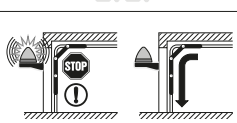
Symbol	Menu	Act	Notice
	05		Default settings such as speed, soft stop, reversing behaviour of the safety devices, reversal limit etc. are pre-set)
	06		
Learning runs			
	10		Learning runs after service / maintenance on or changes to the door system.
Teach-in hand transmitter			
	11		Impulse 
	12		Light 
	13		Partial opening 
	14		Choosing OPEN direction 
	15		Choosing CLOSE direction 

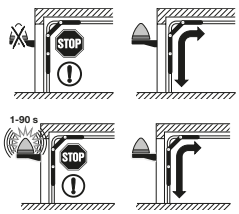
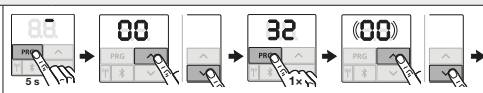
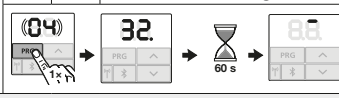
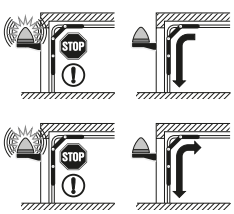
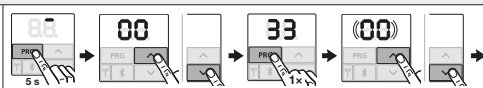
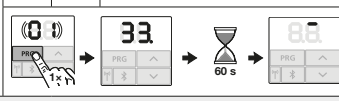
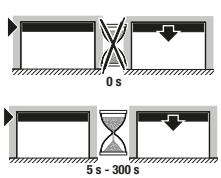
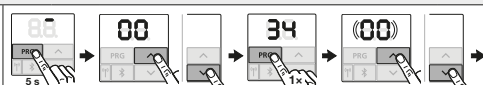
Symbol	Menu	Act	Notice
	16		Ventilation 
	17		All functions are provided for corresponding apps.
Deleting all radio codes			
	19	 **Parameters** **00** Back without deleting **01** Radio — All hand transmitters **02** Bluetooth® **03** – **04** All functions and settings of the Bluetooth antenna	
Reversal limit – CLOSE			▶ Section 6.1.7
	20		Menu is only visible if • A leading photocell VL is connected to SE 2 • Parameter **02** is set in menu **43**
Wicket door contact			
	21	 **Parameters** **00** Deactivated Wicket door contact without testing **01** Wicket door contact with testing	

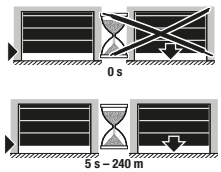
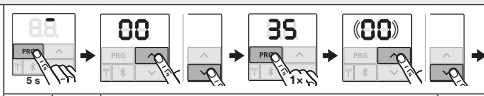
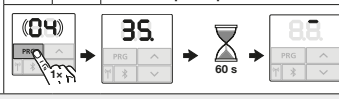
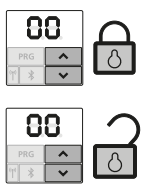
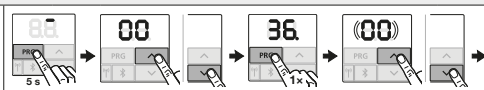
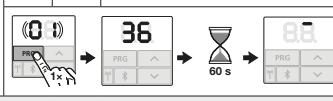
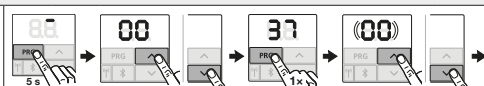
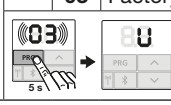
Symbol	Menu	Act	Notice
Belt relief, CLOSE direction			
	22	 Parameters: 00 Without 01 Short 02 Medium 03 Long 	
Changing the position			
	23	  Parameters: 00 Back without changing 01 Change partial opening position 02 Changing the ventilation position	Note the information in section 6.1.10
			
Operator light deactivated			
	25		▶ Note section 6.1.11
Illumination / illumination period (internal relay)			
	26	 Parameters: 00 Deactivated 01 30 seconds 02 60 seconds 03 120 seconds 04 180 seconds 05 300 seconds 06 600 seconds 	

Symbol	Menu	Act	Notice
Illumination / illumination period (external relay)			
	27	 **Parameters** **00** Deactivated **01** As with menu **26** **02** 60 seconds **03** 180 seconds **04** 300 seconds **05** 600 seconds 	e.g. hand transmitter, key switches, internal push button etc.
Permanent ON – external illumination			
	28	 **Parameters** **00** Deactivated **01** Activated 	
Chase light			
Chase light	29	 **Parameters** **00** Deactivated **01** Activated during door run **02** Activated during start warning / advance warning **03** Activated during door run and start warning / advance warning **04** Activated during door run, reverse direction of travel **05** Activated during start warning / advance warning, reverse direction of travel **06** Activated during door run and start warning / advance warning, reverse direction of travel 	

* Whether the menu is shown and can be selected depends on the operator type.

Symbol	Menu	Act			Notice
Additional functions with relay circuit board					HOR 1-HCP or UAP 1-HCP (3rd relay)
	30				
		Parameters	**00**	Deactivated	Menu **25** is automatically deactivated.
			**01**	External illumination function	No maintenance display (**In**)
			**02**	OPEN end-of-travel position reporting	
			**03**	CLOSED end-of-travel position reporting	
			**04**	Partial opening end-of-travel position reporting	
			**05**	Momentary signal at the time of OPEN or partial opening command	
			06	Error message on the display (malfunction)	
			**07**	Start warning / advance warning / warning during run / UAP 1-HCP (3rd relay) de-energises in each end-of-travel position Permanent signal	Advance warning only if activated in menu **32**.
			**08**	Start warning / advance warning / warning during run / UAP 1-HCP (3rd relay) de-energises in each end-of-travel position Flashing	Advance warning only if activated in menu **32**.
			**09**	Relay energises during travel and de-energises in each end-of-travel position	
			**10**	Maintenance interval signal (display **In** flashes 3 × in each end-of-travel position)	
			**11**	As with menu **26**	Menu **25** is automatically deactivated. No maintenance display (**In**)
					

Symbol	Menu	Act	Notice
Pre-warning time			
	32	 **Parameters** **00** Deactivated **01** Advance warning 1 s **02** Advance warning 2 s **03** Advance warning 3 s **04** Advance warning 4 s **05** Advance warning 5 s **06** Advance warning 10 s **07** Advance warning 15 s **08** Advance warning 20 s **09** Advance warning 30 s **10** Advance warning 60 s 	
Advance warning direction			
	33	 **Parameters** **00** Advance warning in the CLOSE direction **01** Advance warning in the OPEN and CLOSE direction 	
Automatic timer – hold-open phase			Photocell required
	34	 **Parameters** **00** Deactivated **01** Hold-open phase 5 s **02** Hold-open phase 10 s **03** Hold-open phase 15 s **04** Hold-open phase 30 s **05** Hold-open phase 60 s **06** Hold-open phase 90 s **07** Hold-open phase 120 s **08** Hold-open phase 180 s **09** Hold-open phase 240 s **10** Hold-open phase 300 s 	▶ Note the information in section 6.1.19 Menu **32**, parameter **03** is automatically activated.

Symbol	Menu	Act	Notice
Automatic timer – partial opening			Photocell required
	35	 **Parameters** **00** Deactivated **01** As with menu **34** **02** Hold-open phase 5 min **03** Hold-open phase 15 min **04** Hold-open phase 30 min **05** Hold-open phase 45 min **06** Hold-open phase 60 min **07** Hold-open phase 90 min **08** Hold-open phase 120 min **09** Hold-open phase 180 min **10** Hold-open phase 240 min 	▶ Note the information in section 6.1.20 Menu **32**, parameter **03** is automatically activated.
Control buttons			
	36	 **Parameters** **00** Deactivated **01** Activated 	
Reset			
	37	 **Parameters** **00** Back without reset **01** Reset / BUS scan HCP-BUS **02** Reset / parameters from menu **22 – 36** **03** Factory reset 	Note section 6.1.22

SupraMatic 4

HÖRMANN KG Verkaufsgesellschaft
Upheider Weg 94-98
33803 Steinhagen
Germany

TR10A360-B RE / 10.2020