

7. Connections and special functions of the carriage

7.14 Resetting the control unit

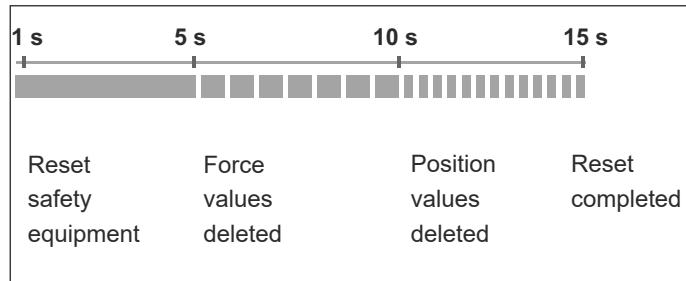


Fig. Overview of the time sequence of the carriage status LED during reset

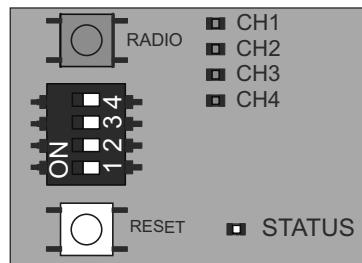


Fig. 1

INFORMATION

A SOMlink and a WiFi-enabled device are required to reset all parameters to the factory settings.

Reset of the safety equipment

1. Press the green reset button for 1 second.
⇒ Reset of the safety equipment.

Deleting the force values

1. Press the green reset button on the carriage for 5 seconds until the green status LED flashes slowly.
⇒ Force values are deleted.

Deleting force and position values

1. Press the green reset button on the carriage for 10 seconds until the green status LED flashes quickly.
⇒ Force and position deleted.

Reset

1. Press the green reset button on the carriage for 15 seconds until the green status LED goes out.
⇒ Reset settings are restored.

7.15 Setting the DIP-Switches on the carriage

Special functions can be set up with the DIP switches on the carriage.

The factory setting of the DIP switches is OFF, which is applicable for sectional doors.

NOTE

Do not use a metal object to set the DIP switches, because this may damage the DIP switches or the pcb.

The DIP switches can be set with a narrow, flat plastic object.

| DIP switches on the carriage | ON | OFF |
|------------------------------|----|-----|
| 1 | | |
| 2 | | |
| 3 + 4 | | |
| 4 | | |

7.16 Automatic closing function – defining basic values

When automatic closing is activated, the door is opened by a pulse.

Only enable automatic closing feature in conjunction with the **SOMMER** warning buzzer. Only original **SOMMER** accessories may be connected. Accessory parts can be obtained from your qualified dealer or via:

www.sommer-usa.com

7. Connections and special functions of the carriage



⚠ WARNING

Risk of injury during automatic closing!

Automatically closing doors can injure people or animals in the movement area of the door when the door is closing. This may cause serious or fatal injury.

- ▶ Always keep the moving door in sight.
- ▶ Persons or animals must not be in the range of movement of the door.
- ▶ Never put your hand near the door or moving parts when it is moving. In particular, do not reach into the ceiling holder or the push arm.
- ▶ Do not drive through the door until it has been fully opened.

→ NOTE

If the door is not in view and the opener is actuated, objects in the movement area of the door may be jammed and damaged.

Objects must not be in the range of movement of the door.



INFORMATION

The door opens completely if it hits an obstacle.



INFORMATION

An acoustic warning signal must be connected for the automatic closing function. Use only the original buzzer accessory part for this purpose.

1. Close the door.
2. Set DIP switch 1 to ON.
3. The hold open time of the door is 30 seconds. Every new command within 30 seconds restarts the open holding time. The door opens by pressing button 1 on the transmitter.
The door movement cannot be stopped with the transmitter.
4. The door closes automatically after 30 seconds. The closing movement can be stopped by a command with the transmitter.
⇒ Door opens completely - reversal of direction.
5. The door starts the closing process again after 30 seconds.
⇒ Door is CLOSED.



INFORMATION

The factory setting is semi-automatic closing with a preset hold open time of 30 seconds. The hold open time is started at the door OPEN end position and from partial opening. This setting and the selection of a fully automatic closing can be adjusted via SOMlink and with a WLAN-enabled terminal.

7.17 Adjusting the lighting function

The opener lights on the carriage can be switched on and off separately over radio channel CH 2. This function is available in the factory setting.

Program the desired transmitter button on radio channel CH 2.

The factory setting of DIP switch 2 is OFF, which is applicable for the lighting function.



INFORMATION

The lighting function or partial opening can be operated.

1. Set DIP switch 2 on the carriage to OFF.
2. Press the radio button repeatedly to select the radio channel CH 2. Program the lighting function on the desired transmitter button.
⇒ The lighting function is available.

The opener lights on the carriage can be switched on and off with the transmitter button.



INFORMATION

If the opener lights are not switched off manually, they switch off automatically after 60 minutes. This value can be changed via SOMlink and a WiFi-enabled device.

Other lights and functions are available with the Lumi+ and the relay accessories. They are similar to the carriage lighting functions. The relay offers additional lighting functions for inside and outside.

Lumi+ and the relay are not included in the delivery. Both accessories can be purchased from your qualified dealer or see:

www.sommer-usa.com

7.18 12 V output

The use of the 12 V output depends on the version of the carriage circuit board.

This output can be used for the power supply of external accessories. The 12 V output offers 2 operating modes.

12V DC, max. 100 mA are available for them.

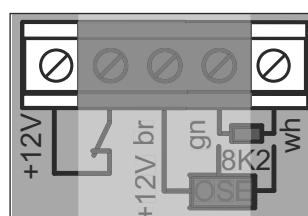


Fig. Output 12 V

Operating mode 1 (factory setting)

Power supply for external devices, for example finger scanners mounted in the door panel.

7. Connections and special functions of the carriage

Operating mode 2 (external lighting)

In this operating mode, external lighting can be connected and switched via the CH2 radio channel, for example lighting with LEDs. This operating mode can only be activated via SOMlink and a WiFi-enabled device.

In the "External lighting" operating mode, the OSE/8K2 safety device can no longer be used on the carriage.

INFORMATION

If the "External lighting" operating mode is used, the opener lighting works with reduced illumination power.

7.19 Setting partial opening

This function partially opens the door.

Example:

A side-opening sectional door can be opened to allow a person to pass through. The partial opening can only be used by radio.

INFORMATION

The lighting function or partial opening can be operated.

INFORMATION

The specified partial opening can be from any position of the door.

1. Close the door completely up to the door CLOSE end position.
2. Press the radio button repeatedly to select radio channel CH 2 and to program the function to the desired transmitter button.
3. Set DIP switch 2 on the carriage to ON.
4. Press the desired button on the transmitter for the partial opening function.
⇒ The door moves in door OPEN direction.
5. Press the desired button on the transmitter again to stop it.
⇒ The door stops at the desired position.
⇒ The partial opening function is programmed.

7.20 Deleting partial opening

1. Set DIP switch 2 on the carriage to OFF.
2. Open the door completely up to the door OPEN end position.
⇒ Partial opening is deleted.

To program a new position, see chapter "7.19 Setting partial opening."

7.21 HomeLink programming

1. For the first time programming with a **SOMMER evo+** opener, press and hold all 3 HomeLink buttons for approximately 30 seconds.

Release only when the HomeLink indicator light turns off.

INFORMATION

Do not perform this step when programming the additional HomeLink buttons.

2. To ensure HomeLink is in the proper training mode, press and hold each of the buttons individually.
⇒ Indicator light blinks rapidly for 2 seconds and then turns to a continuous light.

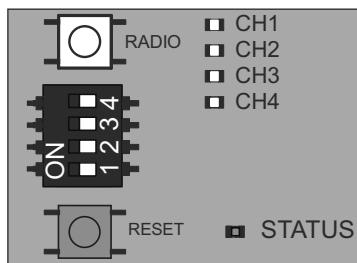


Fig. 1



DANGER

Danger of falling!

Unsafe or defective ladders may tip and cause serious or fatal accidents.

► Use only a non-slip, stable ladder.

INFORMATION

A second person makes the following steps quicker and easier.

3. At the carriage, locate the radio button.
4. Press and release the radio button.
⇒ LED is activated.

INFORMATION

Once the button is pressed, there are approximately 30 seconds in which to initiate the next step.

5. Return the carriage and firmly press and hold the desired HomeLink button to be programmed for two seconds and release.
6. Repeat the „press/hold/release“ a second time to activate the door.
You may need to repeat this sequence for pressing the radio button on the carriage and then pressing the HomeLink button in the vehicle up to 3 times to complete the training process.
⇒ HomeLink should now activate the rolling code equipped opener.

For more information please visit:

www.homelink.com

7. Connections and special functions of the carriage

7.22 Wicket door safety device

The wicket door safety device prevents operation of the door with open wicket doors.

1. The wicket door safety device must be installed so that the switch reliably detects the open doors. Do not install the wicket door safety device on the hinge side.
2. Connect the wicket door safety device on the terminal block on the carriage. The contact command is at 12 V/10 mA. The normally closed contact is potential-neutral.
3. Check the function.



INFORMATION

If the wicket door is opened, the opener lighting on the carriage switches on. If the door closes, the opener lighting lights up for the set lighting time and then switches off. The lighting time can be modified with SOMlink and a WiFi-enabled device.



INFORMATION

If the wicket door remains open longer than 60 minutes, the opener lighting switches off automatically after 60 minutes. This value can be changed via SOMlink and a WiFi-enabled device.



INFORMATION

If the control unit receives a new command with the wicket door open, the LEDs of the opener lighting change from permanent to blinking light.

7.23 SOMlink

SOMlink makes it possible for qualified specialists to change many functions and settings on the door operator. These include force and speed values as well as operating parameters and other convenient functions.

If you would like to make changes, contact your specialist dealer.



INFORMATION

SOMlink is a combination of an additional device and a web-based application for changing door operator functions.

Since safety-relevant values can also be changed, SOMlink is only sold to qualified specialists.

All changes to settings by the SOMlink are logged.



INFORMATION

All operator parameters are reset to the factory settings by a factory reset.

All settings via SOMlink and WiFi-enabled device are also reset.

The DIP switches can only be manually reset.

8. Battery pack

8.1 Installing and removing battery pack

The battery pack can supply power during a mains power failure. The battery pack can be operated for approx. 5 cycles in 12 hours.

Only a qualified electrician is permitted to install, test and replace the battery pack.



DANGER

Danger of hazardous substances!

Improper storage, use or disposal of accumulators, batteries or opener components are dangerous for the health of humans and animals. Serious injury or death may result.

- ▶ Accumulators and batteries must be stored out of the reach of children and animals.
- ▶ Keep batteries and accumulators away from chemical, mechanical and thermal influences.
- ▶ Do not recharge batteries.
- ▶ Components of the opener as well as old accumulators and batteries must not be disposed of with household waste. They must be disposed of properly.

NOTE

Dispose of all parts in accordance with local or national regulations to avoid environmental damage.

NOTE

Only a genuine battery pack from the company SOMMER USA, Inc. may be used.



INFORMATION

Old batteries and battery packs must not be disposed of with household waste as they contain hazardous substances. These must be disposed of properly at municipal collection points or in the containers provided by dealers. National guidelines must be observed.



INFORMATION

Initial operation is not supported if the battery pack is the sole power supply.

Mains voltage is required for initial operation of the opener.

Follow the instructions for the battery pack in the separate installation and operating manual.

See also chapter “**6.1 Cover of the ceiling control unit.**”

NOTE

When the battery pack is installed, the cover of the ceiling control unit must be removed with particular care.

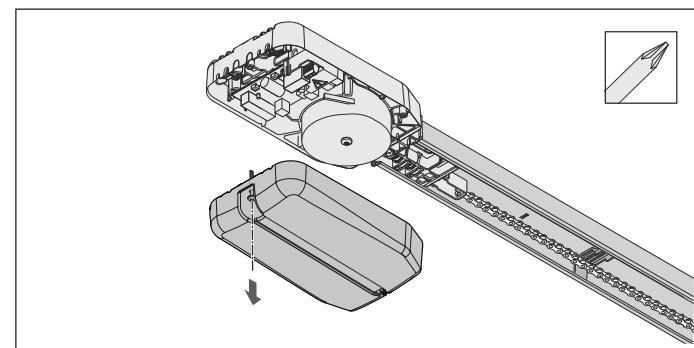


Fig. 1

1. Unscrew and remove the cover from the ceiling control unit.

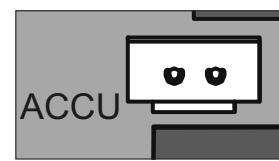


Fig. 2

2. Place the battery pack loosely in its position in the cover and plug the battery pack plug into the pcb at the BATTERY slot.

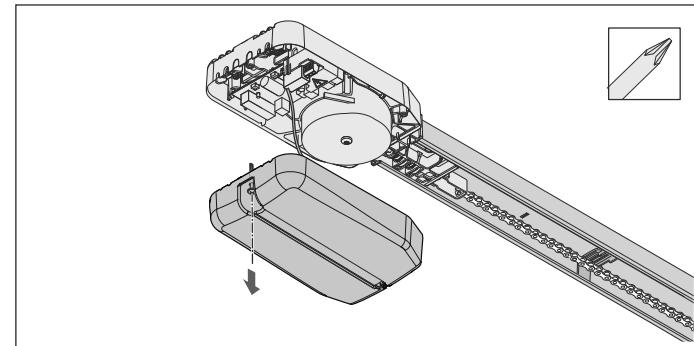


Fig. 3

3. Screw on cover.
4. Run a function test.
 - ⇒ Pull the power plug out of the power outlet.
 - ⇒ The opener is powered by the battery pack.
5. Press the button on the transmitter.
 - ⇒ Opener opens or closes the door at reduced speed.
6. Plug in the mains power plug.

9. Electrical connection

9.1 Connection to a power outlet

A power outlet is required for the electrical connection of the opener. This opener is not equipped for permanent wiring. Contact a licensed electrician to install a suitable receptacle if one is not available.

A power outlet must be installed by qualified electricians only. The power outlet must be protected by a fuse. Local and national regulations (e.g. NEC) must be observed. People under the influence of drugs, alcohol, or medications that can influence their ability to react may **not** work on the opener.

To reduce the risk of electric shock, this equipment has a polarized plug (one blade is wider than the other). This plug will only fit into a polarized outlet one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.



DANGER

Danger due to electric current!

Contact with live parts may result in electric current flowing through the body. Electric shock, burns or death will result.

- ▶ All work on electrical components may only be carried out by an electrician.
- ▶ Before connecting in the mains power plug, ensure that the voltage of the power source corresponds with the voltage listed on the opener type plate. Do not plug in the mains plug until the opener is completely installed.
- ▶ Disconnect the mains plug before working on the opener. If a battery pack is connected, disconnect it from the ceiling control unit.
- ▶ Then check that the opener is disconnected from the power supply.



NOTE

Do not connect the ceiling control unit to the power supply until the installation is complete to prevent damage to the opener.

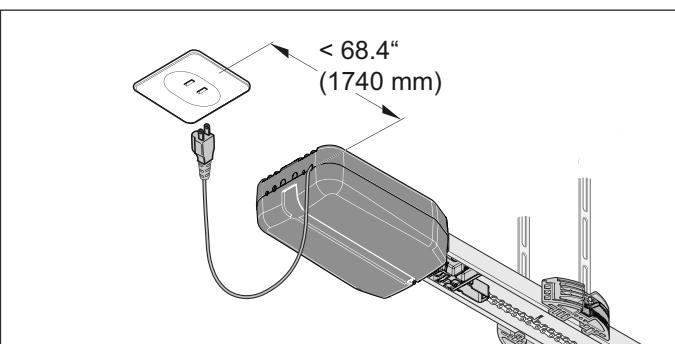


Fig. Distance between ceiling control unit and power outlet

Note that the distance between the ceiling control unit and the power outlet must not exceed 68.4" (1.74 m).



INFORMATION

The power outlet must be installed as follows:

- within easy reach of the ceiling control unit power cable
- easily visible and clear of obstacles



INFORMATION

The power cable is approx. 6,8' (1.74 m) long.



INFORMATION

The original power cord may not be shortened or extended.

All devices to be connected externally must have safe isolation of the contacts from the main power supply in accordance with IEC 60364-4-41.

Wiring for external devices must be installed in accordance with IEC 60364-4-41.

All electrical wiring must be firmly secured to prevent displacement.

10. Initial operation

10.1 Safety information for installation



DANGER

Danger if not observed!

If safety instructions are not observed, serious injury or death may result.

- ▶ All safety instructions must be observed to prevent serious injury or death.



WARNING

Danger of entrapment!

Persons or animals in the movement area of the door may be trapped and pulled along with the door. Severe injuries or death may result.

- ▶ Keep clear of the moving door.
- ▶ Wear tight-fitting clothing.
- ▶ Wear a hairnet over long hair.



WARNING

Danger of crushing and shearing!

If the door moves with persons or animals in the movement area, crushing and shearing injuries may be caused by the mechanism and safety edges of the door.

- ▶ Only use the opener in direct view of the door.
- ▶ Always keep the moving door in sight.
- ▶ Persons or animals must not be in the range of movement of the door.
- ▶ Never put your hand near the door or moving parts when it is moving. In particular, do not reach into the moving push arm.
- ▶ Do not reach into the ceiling mounting unit when the carriage runs along the rail.
- ▶ Do not drive through the door until it has been fully opened.



WARNING

Danger due to optical radiation!

Looking into an LED at short range for an extended period may cause optical glare. This may temporarily reduce vision. This may cause serious or fatal accidents.

- ▶ Do not look directly into an LED.



NOTE

Objects in the movement area of the door may be jammed and damaged.

Objects must not be in the range of movement of the door.



INFORMATION

The control unit detects a short-circuit between chain and rail and then switches the opener off.



INFORMATION

If a safety sensor is used, it must not be actuated when starting the programming.

If a safety sensor is used as a frame safety sensor, move the door to the center position.



INFORMATION

Observe the sticker on the ceiling control unit.

10.2 Initial operation

Before initial operation, read this chapter with special care to ensure that you can make the adjustments to the opener safely and optimally.



WARNING

Danger of entrapment!

If the force setting is too high, persons or animals in the movement area of the door may be trapped and pulled along with the door. Severe injuries or death may result.

- ▶ The opener may only be operated if a non-hazardous force value has been set.
- ▶ The force setting is relevant to safety and must be carefully checked and if necessary adjusted by qualified specialists.
- ▶ The force setting must be low enough to ensure that the closing force poses no risk of injury.



NOTE

Do not use a metal object to set the DIP switches, because this may damage the DIP switches or the pcb.

Use a suitable tool to set the DIP switches, such as a flat plastic object.



INFORMATION

The force setting must be checked after installation of the opener. See also chapter "11.1 Testing obstacle detection."

The factory setting of the DIP switches is OFF, which is applicable for sectional doors.

| DIP switches on the carriage | ON | OFF |
|------------------------------|----|-----|
| 1 | | |
| 2 | | |
| 3 + 4 | | |
| 4 | | |

The carriage has an automatic force setting. The carriage memorizes the required force during the OPEN and CLOSE door movements and stores it when the end position has been reached.



INFORMATION

Stay in the garage during initial operation, particularly when programming.

10. Initial operation



INFORMATION

The operating forces can be modified and adjusted with SOMlink and a WLAN-enabled terminal.

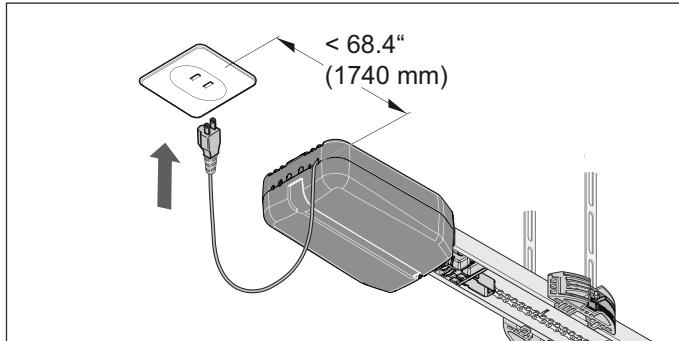


Fig. 1

1. Compare the existing power supply with the type plate.
Plug the ceiling control unit power plug into the power outlet.
⇒ The status LED of the carriage flashes green.

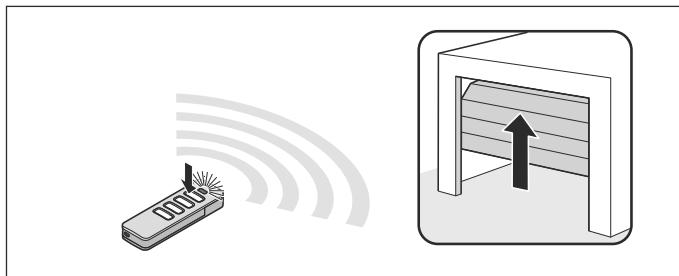


Fig. 2

2. After the opener has been connected to the power supply, its first movement after a pulse is always door OPEN.
Press button 1 **briefly** on the preprogrammed transmitter.
See also the separate installation and operating manual for the transmitter.
⇒ The carriage moves slowly to the door OPEN end position and **automatically** switches off at the limit stop.
⇒ The opener LEDs flash.

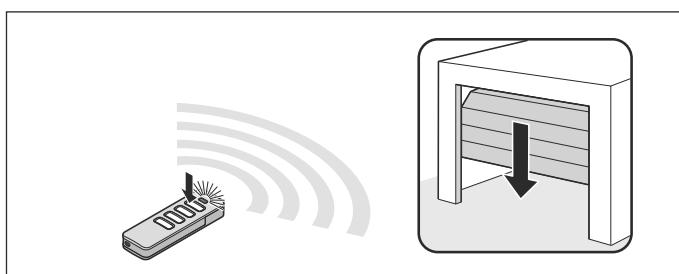


Fig. 3

3. Press button 1 on the transmitter again **briefly**.
⇒ The carriage moves slowly in the door CLOSE direction.

⇒ The opener LEDs flash.

The carriage switches off **automatically** when it reaches the factory-set closing force at the door CLOSE end position.

⇒ The opener LEDs flash in a different sequence.

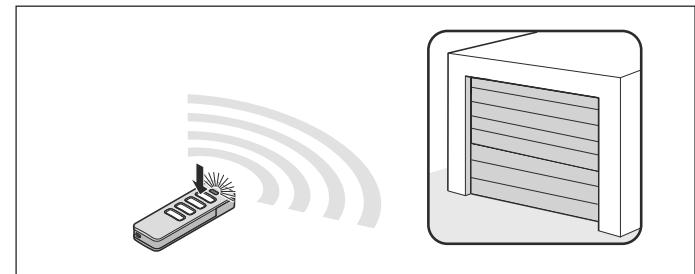


Fig. 4

4. Press button 1 on the transmitter **briefly** (< 1 second) to save the end position.

⇒ The opener LEDs flash briefly in a fast sequence.

The opener automatically starts its programming process:

- ⇒ The carriage moves **automatically** to the door OPEN end position and programs the required operating force.
- ⇒ The carriage **automatically** moves to the door CLOSE end position.
If necessary, the carriage moves over the path several times for programming with a greater door weight.
- ⇒ The carriage **automatically** moves briefly in the door OPEN direction to program the soft running.
- ⇒ The door **automatically** returns to the door CLOSE end position.
- ⇒ The carriage **automatically** moves to the door OPEN end position.
- ⇒ The opener LEDs remain **steady**.
- ⇒ **Opener is programmed and ready for use.**



INFORMATION

The carriage stops if the door is difficult to move.
The door mechanism must be checked.

It may be necessary to adjust the end positions.

See chapter “**10.4 Mechanical adjustment of the end positions.**”

10. Initial operation

10.3 Detecting obstacles during force programming

If the door detects an obstacle during its first door CLOSE movement and the force programming movements cannot be completed, the door stops.

→ NOTE

Check the movement path, mechanism, spring tension and the weight compensation to prevent damage to the door system.

1. **Press and hold** button 1 on the transmitter.
⇒ The carriage **moves briefly, makes a short stop** and moves in the door CLOSE direction until the desired end position has been reached.
2. Release button 1 on the transmitter.

3. Fine adjustment:

Press and hold button 1 on the transmitter until the carriage **moves briefly**.

Release button 1 on the transmitter.

- 3.1 The process can be repeated until the desired end position is reached.

Press button 1 on the transmitter **briefly**

(< 1 second) to save the door CLOSE end position.

⇒ The carriage starts the **automatic** force programming run to the door OPEN end position.

⇒ The door starts the **automatic** door CLOSE force programming run.

If an obstacle is detected again, the carriage stops and reverses.

1. **Press and hold** button 1 on the transmitter.
⇒ The carriage starts without jerking, because the end position of door is already saved.
⇒ The carriage moves to the end position, door CLOSE.
2. Release button 1 on the transmitter.
3. Press button 1 on the transmitter briefly.
⇒ **Restart automatic force programming movements.**
⇒ On completion of the force programming movements, the carriage **automatically** moves to the door OPEN end position.
⇒ The opener LEDs remain **steady**.
⇒ **Opener is programmed and ready for use.**

10.4 Mechanical adjustment of the end positions

Increasing the closing pressure of the end position for door CLOSE

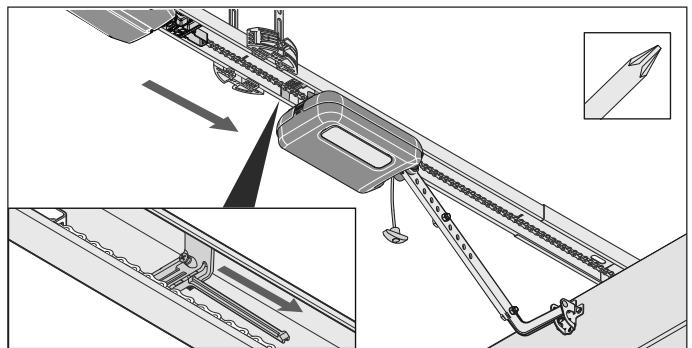


Fig. 1

1. Loosen the screw on the limit stop and move the limit stop a few inches towards door CLOSE. Tighten the screw again.

Reducing the closing pressure of the end position for door CLOSE

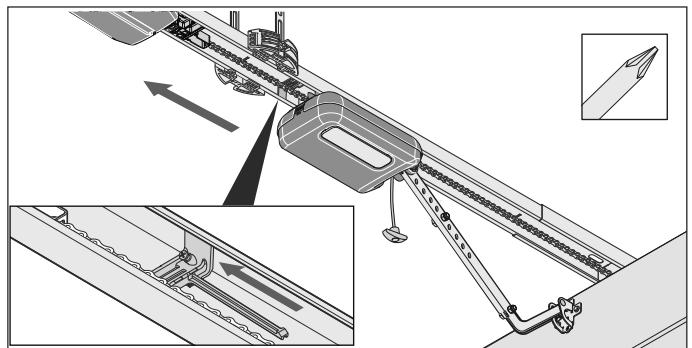


Fig. 1

1. Loosen the screw on the limit stop and move the limit stop a few inches towards door OPEN. Tighten the screw again.

10.5 Attaching information sign and warning sign

1. Run obstacle detection, see chapter “11.1 Testing obstacle detection.”

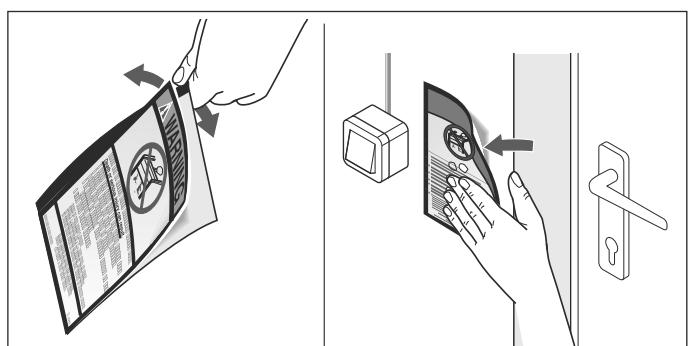


Fig. 2 Sticker near the stationary control or control unit

10. Initial operation



⚠️ WARNING

Danger due to failure to observe instructions!

Serious or fatal injury may result if the warning sign is not attached in a suitable position and the warning instructions are not heeded.

► Attach the warning sign:

- At eye level at a highly visible section of the door wing.
- Near the wall station.
- Far from moving parts.

2. Attach the warning sign at eye level next to the wall control.

If the warning sign does not stick on the wall surface, use staples or other mechanical means to fasten the sign.

⇒ Initial operation is complete.

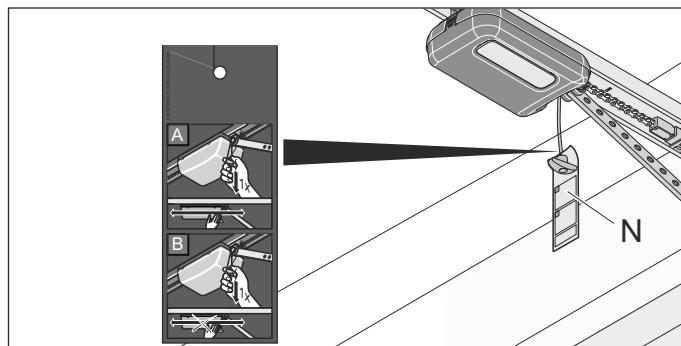


Fig. 3

3. Attach the hanging warning sign to the emergency release cord (N).

11. Final test/function test

11.1 Testing obstacle detection

After programming force values, the obstacle detection and force setting must be tested.



⚠ WARNING

Danger due to projecting parts!

Door wings or other parts must not project into roads or public footpaths. This also applies while the door is moving.

This may cause serious injury or death to persons or animals.

- ▶ Roads or public footpaths must be free of projecting parts.



⚠ WARNING

Danger of crushing and shearing!

Crushing or shearing injuries may result if the door does not reverse. This can lead to serious or fatal injury.

- ▶ The door must reverse when it meets an obstruction.
- ▶ Obstacle detection must be tested at monthly intervals using suitable means.
- ▶ Malfunctions or defects must be remedied immediately by an expert.



⚠ WARNING

Danger of entrapment!

If the force setting is too high, persons or animals in the movement area of the door may be trapped and pulled along with the door. Severe injuries or death may result.

- ▶ The force setting is relevant to safety and must be carefully checked and if necessary adjusted by a qualified specialist.



⚠ WARNING

Danger of crushing and shearing!

If the door moves with persons or animals in the movement area, crushing and shearing injuries may be caused by the mechanism and safety edges of the door.

- ▶ The force cut-off does not operate below 50 mm.
- ▶ The obstacle detection must be tested once a month.
- ▶ Only use the opener in direct view of the door.
- ▶ Always keep the moving door in sight.
- ▶ Persons or animals must not be in the range of movement of the door.
- ▶ Never put your hand near the door or moving parts when it is moving. In particular, do not reach into the moving push arm.
- ▶ Do not reach into the ceiling mounting unit when the carriage is running along the rail.
- ▶ Do not drive through the door until it has been fully opened.



NOTE

Observe the national standards, guidelines and regulations for cut-off of the operating forces.



NOTE

The obstacle detection must be tested once a month to prevent damage to the opener.



INFORMATION

Reversing: The opener stops when it meets an obstruction and then moves in the opposite direction for a short distance to free the obstruction.

In the automatic closing function, the door opens completely if an obstacle is detected.



INFORMATION

The operating forces can be modified and adjusted with SOMlink and a WLAN-enabled terminal. For more information, ask your qualified dealer.

The door must reverse if it hits a 1 1/2" (38 mm) object (or 2 x 4 laid flat) high obstacle.

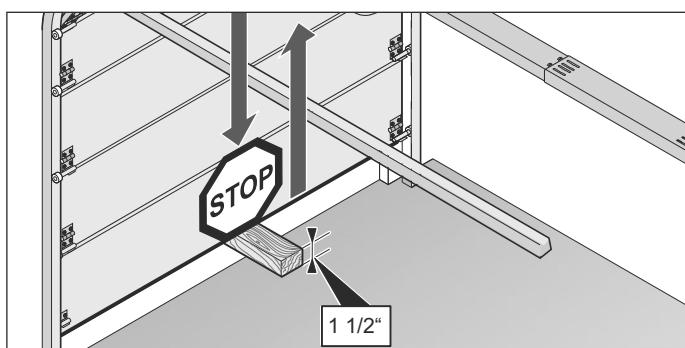


Fig. 1 Obstacle detection

1. Open the door with the opener.
2. Place an 1 1/2" object or 2 x 4 laid flat and centered in the running path of the door.
3. Close the door with the opener.
 - ⇒ If the door hits the obstacle, the opener must stop immediately, reverse and open completely the door.
 - ⇒ If the opener does not reverse, a position reset is required, see chapter **"7.14 Resetting the control unit."** The positions and the forces must be reprogrammed.

11. Final test/function test

11.2 Testing the safety sensor function

1. Close the door with the opener.

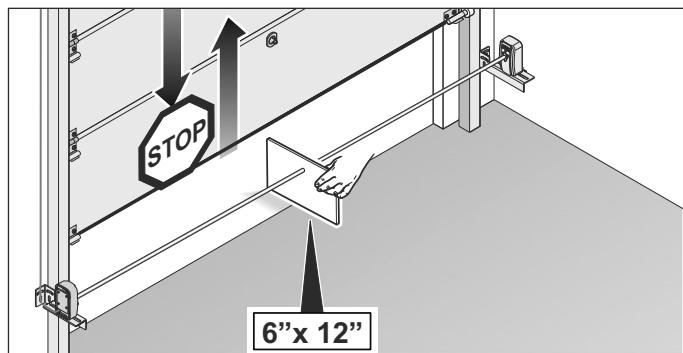


Fig. 2

2. Hold a 6" high white object in between the safety sensors during the closing procedure to disrupt the infrared sensor. The door must stop immediately and then reverse entirely.

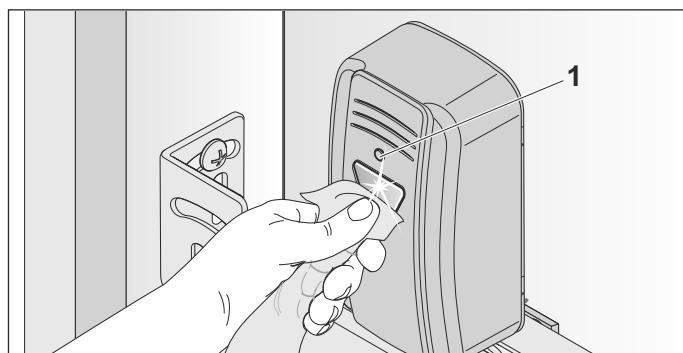


Fig. 3

3. The safety sensors are functioning properly if the LED lights of both safety sensors are solid.
4. If the door does not stop, check the following:
 - if the housing of the safety sensors is dirty,
 - whether transmitter and receiver are correctly aligned with each other,
 - whether the cables are damaged or loose.
5. The complete installation and operating manual must be handed over to the user.

12. Operation

12.1 IMPORTANT SAFETY INSTRUCTIONS

Read the following chapter to ensure safe operation. The opener must not be used by children or persons with restricted physical, sensory or mental capacity or who lack experience and knowledge. All users must be specially instructed and have read and understood the Installation and Operating Manual.

Children must never play with or use the opener, even under supervision. Children must be kept clear of the opener. Transmitters or other control devices must never be given to children.

In particular, observe the following safety instructions and the safety instructions in chapter “13. Maintenance and care” and “14. Troubleshooting.”

⚠ WARNING

WARNING – to reduce the risk of severe injury or death:

1. **READ AND FOLLOW ALL INSTRUCTIONS.**
2. Never let children operate or play with door controls. Keep the remote control away from children.
3. Always keep the moving door in sight and away from people and objects until it is completely closed. **NO ONE SHOULD CROSS THE PATH OF THE MOVING DOOR.**
4. **NEVER GO UNDER A STOPPED, PARTIALLY OPEN DOOR.**
5. Test door opener monthly. The garage door **MUST** reverse on contact with a 1-1/2-inch high object (or a 2 by 4 board laid flat) on the floor. After adjusting either the force or the limit of travel, retest the door opener. Failure to adjust the opener properly increases the risk of severe injury or death.
6. For products having an emergency release, when possible, use the emergency release only when the door is closed. Use caution when using this release with the door open. Weak or broken springs are capable of increasing the rate of door closure and increasing the risk of severe injury or death.
7. **KEEP GARAGE DOORS PROPERLY BALANCED.** See user's manual. An improperly balanced door increases the risk of severe injury or death. Have a qualified service person make repairs to cables, spring assemblies, and other hardware.

8. This operator system is equipped with an unattended operation feature. The door could move unexpectedly. **NO ONE SHOULD CROSS THE PATH OF THE MOVING DOOR.**

9. **SAVE THESE INSTRUCTIONS.**



⚠ DANGER

Danger if not observed!

If safety instructions are not observed, serious injury or death may result.

- ▶ All safety instructions must be observed to prevent serious injury.



⚠ DANGER

Danger due to use of the operator with incorrect setting or when it is in need of repair!

If the operator is used despite incorrect settings or if it is in need of repair, severe injury or death may result.

- ▶ The operator may only be used with the required settings and in the proper condition.
- ▶ Faults must be repaired professionally without delay.



⚠ WARNING

Danger due to falling parts of doors!

Actuating the emergency release can lead to uncontrolled door movement if

- springs are weakened or broken.
- the door has not been optimally weight-balanced.

Falling parts may cause a hazard. Severe injuries or death may result.

- ▶ Check the weight balance of the door at regular intervals.
- ▶ Pay attention to the movement of the door when the emergency release is actuated.
- ▶ Keep clear of the movement area of the door.



⚠ WARNING

Danger of entrapment!

Persons or animals in the movement area of the door may be trapped and pulled along with the door. Severe injuries or death may result.

- ▶ Keep clear of the moving door.

12. Operation



⚠ WARNING

Danger of crushing and shearing!

If the door moves with persons or animals in the movement area, crushing and shearing injuries may be caused by the mechanism and safety edges of the door.

- ▶ Only use the opener in direct view of the door.
- ▶ Always keep the moving door in sight.
- ▶ Persons or animals must not be in the range of movement of the door.
- ▶ Never walk under a stopped or a partially opened door.
- ▶ Never put your hand near the door or moving parts when it is moving. In particular, do not reach into the moving push arm.
- ▶ Do not reach into the ceiling mounting unit when the carriage is running along the rail.
- ▶ Do not drive through the door until it has been fully opened.



⚠ WARNING

Danger due to optical radiation!

Looking into an LED at short range for an extended period may cause optical glare. This may temporarily reduce vision. This may cause serious or fatal accidents.

- ▶ Do not look directly into an LED.



NOTE

If the weight compensation of the door is incorrectly adjusted, the opener may be damaged.

- The door must be stable.
- It must not bend, rotate or twist when opening and closing.
- The door must move easily in its rails.



NOTE

Objects in the movement area of the door may be jammed and damaged.

Objects must not be in the range of movement of the door.



INFORMATION

Keep this installation and operating manual accessible at all times at the place of use.

12.2 Handover to the user

The user checks whether the UL mark and the type plate for the door system have been attached to the door by the qualified specialist.

The qualified specialist must instruct the user:

- on the operation of the opener and its dangers
- on the handling of the emergency release
- on regular maintenance which the user can execute

The user must be informed about which work must only be performed by a qualified specialist:

- installation of accessories
- settings
- regular maintenance except that described in Chapter “13. Maintenance and care” and which must be performed by a qualified specialist.

- repairs
- troubleshooting, except that described in Chapter “14. Troubleshooting” and which must be performed by a qualified specialist. This installation and operating manual as well as the Declaration of Conformity created for the door system must be given to the user.

The user is responsible for:

- the intended use of the opener
- its good condition
- operation
- instructing all users how to use the door system and on the associated hazards
- care and maintenance
- tests by a qualified specialist
- troubleshooting in case of faults by a qualified specialist

The user must always keep this installation and operating manual ready for consultation in the vicinity of the door system.

12.3 Operating modes of door movement



⚠ WARNING

Danger of crushing and shearing!

The door can be actuated by a keypad or another control device.

- ▶ Persons who cannot see the door and are in the range of movement of the mechanism or the closing edges may be injured by crushing or shearing.
- ▶ Keypads or other control devices may be used only if the movement of the door can be viewed directly.
- ▶ Keep persons and animals clear of the range of movement of the door.
- ▶ Never stand under the opened door.



INFORMATION

All functions can be programmed for all buttons.

12. Operation

Button 1 (CH 1)

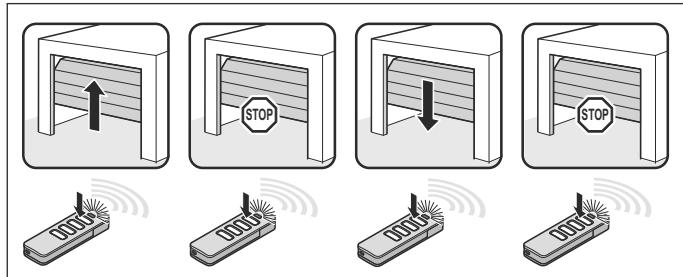


Fig. Pulse sequence door OPEN, door stop, door CLOSE, door stop

Button 2 (CH 2)

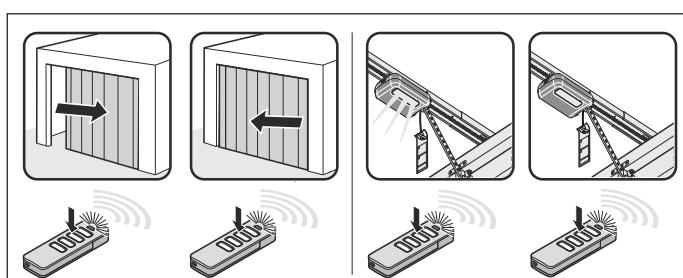


Fig. Pulse sequence for
Partial opening: DIP switch 2 ON
Lighting function: DIP switch 2 OFF

Button 3 (CH 3)

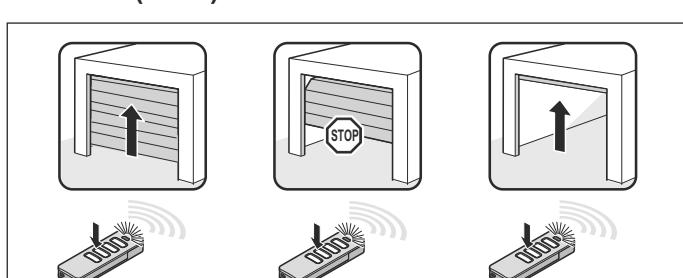


Fig. Pulse sequence for defined door OPEN

Button 4 (CH 4)

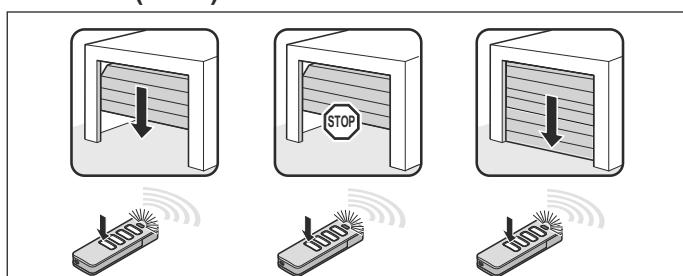


Fig. Pulse sequence for defined door CLOSE

12.4 Obstacle detection



! WARNING

Danger of crushing and shearing!

The door can be actuated by a button or another control device.

Persons who cannot see the door and are in the range of movement of the mechanism or the closing edges may be injured by crushing or shearing.

- ▶ Buttons and other control devices must be installed and actuated within view of the door only.
- ▶ Buttons or other control devices may be used only if the movement of the door can be viewed directly.
- ▶ Persons or animals must not be in the range of movement of the door.



INFORMATION

Reversing: The opener stops when it hits an obstacle. Then the opener moves slightly in the opposite direction to release the obstacle.

In the automatic closing function, the door opens completely.



INFORMATION

If the safety sensor is interrupted, the door runs on for a short distance.

The following safety devices are installed to detect obstacles:

- Safety sensors (object protection)
- Safety contact strips (personal protection)
- Force cut-off of opener (personal protection)

See also chapter "13. Maintenance and care."

12.5 Function of the emergency release

In the event of a power failure, the door can be opened from the inside using a mechanical emergency release. Observe in particular the following safety instructions for this chapter.



! DANGER

Danger of trapped persons!

Persons may be trapped inside the garage. If trapped persons cannot free themselves, severe injury or death may result.

- ▶ The operation of the emergency release must be tested regularly from inside and if necessary also from outside.
- ▶ Faults must be repaired without delay.

12. Operation



! WARNING

Danger due to falling parts of doors!

If the emergency release is actuated, weak or broken springs may cause the door to close suddenly and unexpectedly. This may cause serious or fatal injury.

- ▶ The emergency release should be used with the door closed.
- ▶ Use the emergency release with great caution if the door is open.
- ▶ Persons or animals must not be within the door's range of movement.



NOTE

The emergency release is only suitable for opening or closing the door in an emergency. For example, a power outage or opener fault.

The emergency release is not suitable for regularly opening or closing the door.

This could cause damage to the opener or door.



NOTE

In an emergency release, the door could independently open or close itself due to a broken spring or incorrect setting of the weight balancing.

The opener could be damaged or destroyed.



NOTE

After the opener is locked back in, move the door into the door OPEN end position.

Otherwise the limit stop will be hit with too much force.



NOTE

Objects in the movement area of the door may be jammed and damaged.

Objects must not be in the range of movement of the door.



INFORMATION

It can be locked and released in any door position.

1. Disconnect the opener from the mains voltage.

Check it is disconnected from the power supply.

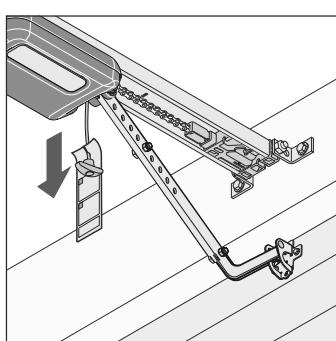


Fig. 1

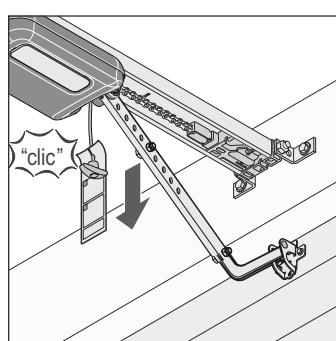


Fig. 2

2. Pull once on the emergency release cord.

⇒ **The carriage is released.**

⇒ Door can be moved by hand

3. Pull the emergency release cord once more.
⇒ **The carriage is locked.**
⇒ The door can only be moved by the opener.
4. Connect the opener to the main power supply.
Check that the power supply is connected.
5. Give the opener a command.
⇒ After a power failure, the first pulse of the opener is always in the door OPEN direction.
⇒ The opener must drive completely to the door OPEN end position.

13. Maintenance and Care

13.1 Safety instructions for maintenance and care

Service the opener regularly as directed below. This ensures safe operation and a long service life for your opener.



⚠ DANGER

Danger if not observed!

If safety instructions are not observed, serious injury or death may result.

- ▶ All safety instructions must be observed to prevent serious injury.



⚠ DANGER

Danger due to electric current!

Contact with live parts may result in electric current flowing through the body. Electric shock, burns or death may result.

- ▶ All work on electrical components may only be carried out by an electrician.
- ▶ Disconnect the mains plug before working on the opener.
- ▶ If a battery pack is used, it must be disconnected.
- ▶ Then check that the opener is disconnected from the power supply.



⚠ DANGER

Danger of falling!

Unsafe or defective ladders may tip and cause fatal or serious accidents.

- ▶ Use only a non-slip, stable ladder.
- ▶ Ensure that ladders are safely positioned.



⚠ WARNING

Danger of trapped persons!

Persons may be trapped inside the garage. If trapped persons cannot free themselves, severe injury or death may result.

- ▶ The operation of the emergency release must be tested regularly from inside and if necessary also from outside.
- ▶ Faults must be repaired without delay.



⚠ WARNING

Danger due to falling parts of doors!

Parts of the door may become detached and fall. If persons or animals are hit, this may cause serious injury or death.

- ▶ Always keep the moving door in sight.
- ▶ Keep all persons and animals away from the door until it is completely opened or closed.



⚠ WARNING

Danger of crushing and shearing!

If the door moves with persons or animals in the movement area, crushing and shearing injuries may be caused by the mechanism and safety edges of the door.

- ▶ Only use the opener in direct view of the door.
- ▶ Always keep the moving door in sight.
- ▶ Never put your hand near the door or moving parts when it is moving. In particular, do not reach into the moving push arm.
- ▶ Do not reach into the ceiling mounting unit when the carriage is running along the rail.
- ▶ Persons or animals must not be in the range of movement of the door.
- ▶ Do not drive through the door until it has been fully opened.



⚠ WARNING

Danger due to hot surfaces!

After frequent operation, parts of the carriage or the control unit may become hot. If the cover is removed and hot parts are touched, they may cause burns.

- ▶ Allow the opener to cool before removing the cover.



→ NOTE

The carriage is supplied with safety low voltage via the chain and the rail.

The use of oil or grease will greatly reduce the conductivity of the chain, rail and carriage. This may result in faults due to inadequate electrical contact.

The chain and rail are maintenance-free and must not be oiled or greased.



→ NOTE

The use of unsuitable cleaning agents may damage the surface of the opener.

Clean the opener with a dry lint-free cloth only.

13. Maintenance and Care

13.2 Maintenance schedule

| How often? | What? | How? |
|--------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Once a month | • Test the emergency release | • See chapter “12.5 Function of the emergency release” |
| | • Test the obstacle detection | • See chapter “11.1 Testing obstacle detection” |
| | • Test the safety sensors | <ul style="list-style-type: none"> • Interrupt the active safety sensors while the door is closing. The door must stop and open slightly or completely if automatic closing is activated. • If necessary clean the safety sensors, see chapter “13.3 Care” |
| Once a year | • Test the door and all moving parts | • As directed by the door manufacturer |
| | • Check screws on door, ceiling or header | • Check that screws are tight and tighten if necessary |
| As needed | • Chain and rail | • Maintenance-free |
| | • Rail | • See chapter “13.3 Care” |
| | • Clean ceiling control unit and carriage housing | • See chapter “13.3 Care” |

13.3 Care

Clean rail, carriage and ceiling control unit

1. Pull the power plug out of the power outlet.
If a battery pack has been installed, remove the ceiling control unit cover and disconnect the battery pack from the ceiling control unit. See also chapter “8.1 **Installing and removing battery pack.**”
Then check that the power is disconnected.
2. Remove loose dirt with a moist, lint-free cloth:
 - from the carriage and the ceiling control unit
 - from the rail and the inside of the rail
3. If applicable, install the battery pack in reverse order of removal.
⇒ Plug the power plug into the power outlet.

Clean safety sensors

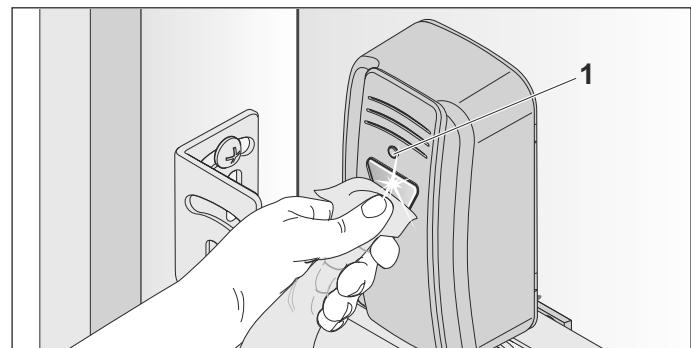


Fig. 1

→ **NOTE**

Do not change the position of the safety sensors when cleaning them.

1. Clean the housing reflectors with a moist, lint-free cloth.

14. Troubleshooting

14.1 Safety instructions for troubleshooting

Follow the basic safety instructions listed below.



! DANGER

Danger if not observed!

If safety instructions are not observed, serious injury or death may result.

- ▶ All safety instructions must be observed to prevent serious injury.



! DANGER

Danger due to electric current!

Contact with live parts may result in electric current flowing through the body. Electrical shock, burns, or death may result.

- ▶ All work on electrical components may only be carried out by an electrician.
- ▶ Disconnect the mains plug before working on the opener.
- ▶ If a battery pack is used, it must be disconnected.
- ▶ Then check that the opener is disconnected from the power supply.



! DANGER

Danger of entrapment!

Persons may be trapped inside the garage. If trapped persons cannot free themselves, severe injury or death may result.

- ▶ The operation of the emergency release must be tested regularly from inside and if necessary also from outside.
- ▶ Faults must be repaired without delay.



! WARNING

Danger of falling!

Unsafe or defective ladders may tip and cause serious or fatal accidents.

- ▶ Use only a non-slip, stable ladder.
- ▶ Ensure that ladders are safely positioned.



! WARNING

Danger due to falling parts!

Parts of the door may become detached and fall. Persons may be hit. This will cause injury or death.

- ▶ Always keep the moving door in sight.
- ▶ Keep all persons and animals away from the door until it is completely opened or closed.
- ▶ Do not drive through the door until it has been fully opened.



! WARNING

Danger of entrapment!

Loose clothing or long hair may be trapped by moving parts of the door.

- ▶ Keep clear of the moving door.
- ▶ Wear tight-fitting clothing.
- ▶ Wear a hairnet over long hair.



! WARNING

Danger of crushing and shearing!

If the door moves with persons or animals in the movement area, crushing and shearing injuries may be caused by the mechanism and safety edges of the door.

- ▶ Only use the opener in direct view of the door.
- ▶ Always keep the moving door in sight.
- ▶ Persons or animals must not be in the range of movement of the door.
- ▶ Never put your hand near the door or moving parts when it is moving. In particular, do not reach into the moving push arm.
- ▶ Do not reach into the ceiling mounting unit when the carriage is running along the rail.
- ▶ Do not drive through the door until it has been fully opened.



! WARNING

Danger due to optical radiation!

Looking into an LED at short range for an extended period may cause optical glare. This may temporarily reduce vision. This may cause serious or fatal accidents.

- ▶ Do not look directly into an LED.



! WARNING

Danger due to hot surfaces!

After frequent operation, parts of the carriage or the control unit may become hot. If the cover is removed and hot parts are touched, they may cause burns.

- ▶ Allow the opener to cool before removing the cover.



NOTE

If the door is not in view and the radio remote control is actuated, objects in the movement area of the door may be jammed and damaged.

Objects must not be in the range of movement of the door.



INFORMATION

The control unit detects a short-circuit between chain and rail and then switches the opener off.

14. Troubleshooting

14.2 Troubleshooting

The following guide to troubleshooting lists potential problems and their causes and information on correcting them. In some cases, other chapters and sections with a more detailed description are referenced. You will be prompted to call a technician if this is required.

Work on the electrical system and live parts may be performed only by a trained electrician.

1. Pull the power plug out of the power outlet.

If a battery pack has been installed, remove the ceiling control unit cover and disconnect the battery pack from the ceiling control unit. See chapter

“6.1 Cover of the ceiling control unit” and chapter

“8.1 Installing and removing battery pack.”

Then check that the power is disconnected.

2. After working on the opener, if applicable replace the battery pack in reverse order. See chapter **“6.1 Cover of the ceiling control unit”** and chapter **“8.1 Installing and removing battery pack.”** Connect the opener to the main power supply.

Check that the power supply is connected.

14. Troubleshooting

14.3 Time sequences of opener lighting in normal operation and in case of faults

The flash sequences show information on malfunctions for technicians, end customers and telephone support.

Flash sequences in normal operation

| Flash sequences | Possible cause | Corrective action |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Normal mode  Warning light for the opener in normal mode | <ul style="list-style-type: none"> Program mode active Pre-warning time active Reversing movement, soft reversing and stopped after a soft and reversing movement | <ul style="list-style-type: none"> None, for information |

Flash sequences with faults

| Flash sequences | Possible causes | Corrective action |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Requirement  Opener expects a command | <ul style="list-style-type: none"> Waiting for a confirmation during the position programming movement of door CLOSE position | <ul style="list-style-type: none"> Confirmation of position programming movement |
| Alarm  A process has triggered a fault | <ul style="list-style-type: none"> Safety sensors or safety equipment not OK before movement Interruption of a safety device during the movement Defective safety device, switchover to dead man mode | <ul style="list-style-type: none"> Check safety sensors Contact customer support Remove obstacle Have it checked by a qualified specialist |
| Service  A process has triggered a fault | <ul style="list-style-type: none"> Service Calculated motor temperature is too high (overheating) Program difficult positions in case of reversing with no visible cause. The complete distance is traversed from end position to end position (dead man by radio, under direct view only) | <ul style="list-style-type: none"> Have the service performed by a qualified specialist Allow motor to cool None, for information |
| Fault  Opener or parts of the opener faulty | <ul style="list-style-type: none"> Self-test of electronics Blockage detection (gear breakage, Hall sensor fault) Limit switch does not operate (e.g. wire break, limit switch fault) Counting pulses sent in the wrong direction (motor cable was incorrectly connected) Travel length exceeded Error during plausibility test of Memo | <ul style="list-style-type: none"> Contact customer support Contact customer support Contact customer support Check wiring, correct if necessary Path too long, path restricted to max. 22 ft. (7 m) Contact customer support |

14. Troubleshooting

14.4 Troubleshooting table

| Problem | Possible causes | Test/check | Remedy |
|-------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| The opener opens the door but does not close it. | • Safety sensor issue | • Check safety sensors and safety devices | • Remove obstacle • Align safety sensor • Check connection to control unit • Check safety sensor wires |
| | • Automatic closing activated | • Wait to see whether the opener starts automatically after 30 seconds | • Deactivate automatic closing • Contact customer support |
| Opener cannot be operated with the control device. | • No power | • Check power supply | • Check the power outlet with a different device, for example with a lamp |
| | • Limit switch in carriage defective | • Unlock opener and push carriage to the center of the rail • Lock opener • Actuate transmitter • If the opener now still does not close and open, the limit switch is defective. | • Contact customer support |
| | • The opener was disengaged by the emergency release mechanism | • Check that the door can be moved manually | • Pull the emergency release to engage the opener |
| | • Control device incorrectly connected to the opener | • Check function of opener with a transmitter | • Check wiring, correct if necessary |
| | • Transmitter defective | • Opener cannot be started with the transmitter. | • Replace transmitter battery • If necessary, replace the battery of the transmitter • If necessary, replace the transmitter with a new one |
| | • Vacation mode on | • Opener cannot be started with the transmitter or the connected control device. | • Unlock button for 8 sec. on the wall station |
| When a button on the transmitter is pressed, the door does not open or close. | • Electrical supply voltage outside the approved range. | • Have the mains voltage checked by a qualified specialist | • Have the cause corrected by a qualified specialist |
| | • Transmitter not programmed | • Radio LED does not light when the transmitter is operated | • Program transmitter |
| | • Transmitter battery is weak | | • Replace the transmitter battery |
| Opener stops the door during closing and opens it partially or completely. | • Transmitter defective | • LED on transmitter does not light up | • Replace transmitter with a new one |
| | • Opener detected an obstacle | • Check whether there are any objects in the movement range of the door | • Remove the object • if necessary, check and adjust the door mechanism or springs of the door |
| | • Safety sensors were interrupted | • Check LEDs on safety sensors | • Remove obstacle |
| | • Safety sensors defective or misaligned | | • Align safety sensors • Check wiring • If necessary, replace safety sensors |

14. Troubleshooting

| Problem | Possible causes | Test/check | Remedy |
|-------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Opener stops while the door is opening | <ul style="list-style-type: none">Door detected an obstacle | <ul style="list-style-type: none">Check whether there are any objects in the movement range of the doorCheck the weight balance of the door - it must run smoothly | <ul style="list-style-type: none">Remove obstacleIf necessary, have door mechanism checked and repaired by a qualified specialist |
| Lighting on the opener does not function | <ul style="list-style-type: none">Opener lighting defective | | <ul style="list-style-type: none">Replace carriageIf necessary, install Lumi+ supplementary lighting |
| Speed varies while opening and closing the door | <ul style="list-style-type: none">Rail dirty | | <ul style="list-style-type: none">Clean with a moist, lint-free cloth see chapter "13.3 Care" |
| | <ul style="list-style-type: none">Chain tightened incorrectly. | | <ul style="list-style-type: none">Tighten the chain, see chapter "5.4 Installation of the opener system" |

14.5 Replacing the carriage

The instructions for "Disassembling the carriage" can be downloaded from **SOMMER** at:

www.sommer.eu

If applicable, save the existing settings on the available carriage via SOMlink and a WiFi-enabled device. The settings can be transferred to the new carriage later.

The new carriage is in delivery condition from the factory. After replacing the carriage, make sure that used accessories have been transferred to the new carriage.

Initial operation must be repeated and the special functions of the carriage must be reset, see Chapter "10. Initial operation" and "7. Connections and special functions of the carriage".

Handheld transmitters which are used must also be reprogrammed, see Chapter "7.6 Programming the transmitter." On the other hand, the transmitter does not have to be programmed if the Memo accessory part has already been used.

After successful initial operation, carry out a final test and a function test, see Chapter "11. Final test/function test".



INFORMATION

Save the existing settings of the carriage with the help of SOMlink and a WiFi-enabled device. After the new carriage has been inserted, reinstall the data.

15. Taking out of operation, storage and disposal

15.1 Taking the opener out of operation and disassembly

Follow the basic safety instructions listed below. People under the influence of drugs, alcohol, or medications that can influence their ability to react may **not** work on the opener. The opener may only be disassembled by a qualified specialist. This installation and operating manual must be read, understood and complied with by the qualified specialist who disassembles the opener.



! DANGER

Danger if not observed!

If safety instructions are not observed, serious injury or death may result.

- All safety instructions must be observed to prevent serious injury.



! DANGER

Danger due to electric current!

Contact with live parts may result in electric current flowing through the body. Electric shock, burns or death may result.

- Electrical components must be disassembled by an electrician only.
- Disconnect the opener from mains power.
- If a battery pack is used, it must be disconnected.
- Then check that the opener is disconnected from the power supply.



! WARNING

Danger of falling!

Unsafe or defective ladders may tip and cause serious or fatal accidents.

- Use only a non-slip, stable ladder.
- Ensure that ladders are safely positioned.



! WARNING

Danger of tripping and falling!

Unsafely positioned parts such as packaging, opener parts or tools may cause trips or falls.

- Keep unnecessary items away from the disassembly area.
- Place all parts where no persons are likely to trip or fall over them.
- General workplace guidelines must be observed.



! WARNING

Danger due to optical radiation!

Looking into an LED at short range for an extended period may cause optical glare. This may temporarily reduce vision. This may cause serious or fatal accidents.

- Do not look directly into an LED.



! WARNING

Danger due to hot surfaces!

After frequent operation, parts of the carriage or the control unit may become hot. If the cover is removed and hot parts are touched, they may cause burns.

- Allow the opener to cool before removing the cover.



! WARNING

Risk of eye injury!

Eyes and hands may be seriously injured by chips when removing screws.

- Wear safety glasses.



! WARNING

Risk of injury in the head region!

Impact with suspended objects may cause serious abrasions and cuts.

- Wear a safety helmet when disassembling suspended parts.



! CAUTION

Risk of injury to hands!

Rough, projecting metal parts may cause abrasions and cuts when touched.

- Wear safety gloves.



NOTE

If there is a battery pack in the control unit, it must be removed by a qualified electrician. See chapter "8. Battery pack."

The opener and its accessories must be disconnected from the power supply when taking them out of operation or during disassembly.

1. Pull the power plug out of the power outlet. If a battery pack has been installed, remove the control unit cover and disconnect the battery pack from the control unit. See also chapter "8.1 Installing and removing battery pack."

Then check that the power is disconnected.

2. Disassembly is in reverse order of installation.

15.2 Storage



NOTE

Improper storage may damage the opener. The opener must be stored in enclosed and dry rooms.

Store the packaging units as follows:

- in enclosed, dry rooms so that they are protected from moisture
- at a storage temperature from -13°F to $+149^{\circ}\text{F}$
- secure to prevent falling
- leave room for unhindered passage

15. Taking out of operation, storage and disposal

15.3 Disposal of waste

Observe the instructions for disposal of packaging, components and batteries and, if applicable, the battery pack.



NOTE

Dispose of all parts in accordance with national regulations to avoid environmental damage.



INFORMATION

All components that have been taken out of service must not be disposed of with household waste, as they contain hazardous substances.

The components must be disposed of correctly at an authorized recycling center. The local and national regulations must be observed.



INFORMATION

Old batteries and battery packs must not be disposed of with household waste as they contain hazardous substances. These must be disposed of properly at municipal collection points or in the containers provided by dealers. National guidelines must be observed.

16. Warranty terms and conditions

16.1 Limited Lifetime Warranty

WARRANTY COVERAGE. Sommer Antriebs- und Funktechnik GmbH (“**Sommer**”) extends this Limited Warranty to the original consumer purchaser (“**Purchaser**” or “**you**”) of a Sommer Garage Door Opener (the “**Product**”) from Sommer or one of its authorized dealers in the United States.

The Limited Warranty on the Product is not transferable by the original Purchaser and is valid for the initial installation only. If the Product is resold or otherwise provided by Purchaser to someone else, this Limited Warranty will not thereafter apply, and Purchaser is solely responsible for any and all warranty claims.

WARRANTY PERIOD. The Limited Warranty will be effective from the date of purchase or initial installation, whichever is earlier, and will continue for the period set forth below (“**Warranty Period**”). Any Limited Warranty claims must be made within thirty (30) days after Purchaser is aware of the alleged non-conformity and, in any event, within the applicable Warranty Period. ANY CLAIMS AFTER SUCH PERIOD WILL BE BARRED.

LIMITED LIFETIME WARRANTY.

Motor: The 24 Volt DC motor under normal use will be free from defects in material and workmanship for as long as the Purchaser occupies the residence in which the Product was first installed (“**Residence**”); provided the Product is installed in accordance with the applicable Sommer installation manual.

Parts: Rail, chain, circuit boards and hardware will be free from defects in material and workmanship for a period of six (6) years.

Product Accessories (transmitter, wall station, safety sensors, etc.) will be free from defects in material and workmanship for a period of two (2) years.

Spare Parts: Sommer intends to have spare parts available for a period of ten (10) years from the date of purchase.

EXCLUSIONS. The Limited Warranty does not apply to:

- Consumables and replaceable parts which routinely wear out over time such as LEDs, batteries and fuses.
- Programming of any remote control devices.
- Damage to the Product or Product Accessories caused: (i) during or after delivery; (ii) by normal wear and tear; (iii) by use under circumstances exceeding Sommer’s specifications or limitations or contrary to any instructions or information contained in Sommer’s installation, operating or maintenance manuals (as supplemented from time to time by Sommer); (iv) by unauthorized

ized or improper repair or alteration; (v) by non-original equipment manufacturer spare parts or components; (vi) by failure to provide reasonable and necessary maintenance; (vii) by improper storage, handling, installation or use; (viii) by corrosion, erosion, abrasion or similar causes; (ix) by accident or neglect; (x) by events or causes beyond Sommer’s reasonable control, including disaster and acts of God; and (xi) by the garage door, garage door hardware (including, but not limited to, springs, locks, rollers, rails, hinges, alignment of rails, or alignment of hinges), and other parts not supplied by the manufacturer.

- Purchases of Product and Product Accessories outside the United States.

HOW TO RECEIVE SERVICE. In order for the Limited Warranty to apply, and in order to be eligible for service under this Limited Warranty, Purchaser MUST: (a) inspect the Product and Product Accessories immediately upon receipt as well as after installation and (b) within thirty (30) days of the purchase of the Product either (i) return the Warranty Registration Card attached below or (ii) register online at <http://www.sommer-usa.com/warranty-registration>. THE TIMELY RETURN OF THE WARRANTY REGISTRATION CARD OR REGISTRATION OF THE LIMITED WARRANTY ONLINE IS A CONDITION PRECEDENT TO OBTAINING COVERAGE UNDER THIS LIMITED WARRANTY.

If problems exist with any Product or Product Accessories, first consult the troubleshooting section of the installation and operation manual or the online guide and tips available at www.sommer-usa.com. If problems persist, please call 1-877-766-6607 between the hours of 8:00 AM to 6:00 PM Eastern Time, Monday through Friday to speak with a customer service technician or by writing to:

Sommer Service Center
2217 Distribution Center Drive, Suite F
Charlotte, NC 28269
Email: info@sommer-usa.com

If the customer service technician cannot solve the problem over the phone, Purchaser may be directed to remove and ship, both at Purchaser’s risk and expense, the Product and/or Product Accessories to Sommer or an authorized service center for diagnosis or repair, in which case Purchaser will be provided with shipping information, packaging instructions and a return merchandise authorization number. DO NOT SHIP THE PRODUCT OR PRODUCT ACCESSORIES UNTIL

16. Warranty terms and conditions

SOMMER ISSUES A RETURN AUTHORIZATION. PURCHASER MUST PROVIDE A COPY OF THE PURCHASE RECEIPT OR OTHER PROOF OF PURCHASE (INCLUDING THE DATE AND LOCATION OF PURCHASE).

WHAT SOMMER WILL DO. As Purchaser's sole and exclusive remedy for any Product or Product Accessories which Sommer finds to be non-conforming and covered by the Limited Warranty, Sommer will, at Sommer's sole discretion, either: (a) repair the Product or Product Accessories or (b) provide a replacement Product or Product Accessories at no charge, and ship the repaired or replaced Product or Product Accessories to the Purchaser pre-paid. Sommer reserves the right to discontinue or make changes to any Product and Product Accessory without notice. Sommer also reserves the right to use either new or reconditioned parts or parts of comparable quality and price to repair or replace non-conforming Products or Product Accessories covered by the Limited Warranty.

Any replaced parts become Sommer's property. REPAIRS OR EXCHANGES PERFORMED UNDER THIS LIMITED WARRANTY DO NOT EXTEND THE WARRANTY PERIOD. If Sommer determines that any Product or Product Accessory is not covered by the Limited Warranty, Purchaser will be given a price quote for the repair and return of the Product or Product Accessory. Purchaser is responsible for all labor costs, including re-installation charges, associated with the installation of the repaired or replaced Product or Product Accessory in the Residence.

LIMITATIONS.

ALL IMPLIED WARRANTIES FOR THE PRODUCT AND PRODUCT ACCESSORIES, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE RESPECTIVE LIMITED WARRANTY PERIOD SET FORTH ABOVE, AND NO IMPLIED WARRANTIES WILL EXIST OR APPLY AFTER SUCH PERIOD FOR THE PRODUCT AND PRODUCT ACCESSORIES. **Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.**

UNDER NO CIRCUMSTANCES SHALL SOMMER BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, INDIRECT, PUNITIVE OR SPECIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOST PROFITS, ARISING FROM OR RELATING TO THE USE OF, INSTALLATION OF, DEFECT IN, INABILITY TO USE, OR PROPERTY DAMAGE CAUSED BY THE PRODUCT, THE PRODUCT AC-

CESSORIES OR OTHERWISE, EVEN IF SOMMER HAS BEEN ADVISED OF THE POSSIBILITY OF THOSE DAMAGES. **Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.**

IN NO EVENT SHALL SOMMER'S LIABILITY, WHETHER IN CONTRACT, TORT, STRICT LIABILITY OR OTHERWISE, EVER EXCEED THE PURCHASE PRICE OF THE PRODUCT OR PRODUCT ACCESSORY AT ISSUE.

This Limited Warranty is the only warranty Sommer gives to Purchaser. No dealer, distributor, sales representative, employee or other person is authorized to offer or establish additional warranties or remedies or to expand or otherwise modify this Limited Warranty.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

17. Product warranty registration card

Sommer USA, Inc.

2217 Distribution Centre Drive, Suite F
Charlotte, NC 28269
United States of America

 Tel +1 877-766-6607

 Fax +1 704-424-7699

info@sommer-usa.com
www.sommer-usa.com

TO REGISTER: / PARA REGISTRARSE: /

POUR VOUS ENREGISTRER :

1. Fill out Registration Form. / Llene el formulario de registro. / Remplissez la carte d'enregistrement.

2. Insert original or photocopy of your receipt. / Inserte el original o fotocopia de su recibo. / Placez l'original du reçu ou une photocopie.

3. Seal Envelope. / Selle el sobre. / Collez l'enveloppe.

4. Affix stamp. / Ponga la estampilla al sobre / Affranchissez.

5. Mail to address on top of this page /
Deposite en el correo enviando a la dirección indicada en el sobre. / Envoyez à l'adresse indiquée.

Please complete and return to validate your warranty* within 30 days or register online at: www.sommer-usa.com

NAME / NOMBRE / NOM

ADDRESS / DIRECCIÓN / ADRESSE

CITY / CIUDAD / VILLE

STATE / ESTADO / ÉTAT

ZIP / ZONA POSTAL / CODE POSTAL

ADDRESSPHONE / TÉLÉFONO / TÉL

PURCHASE DATE / FECHA DE COMPA / DATE DE ACHAT

E-MAIL ADDRESS / DIRECCIÓN DE CORREO ELECTRÓNICO/ ADRESSE ÉLECTRONIQUE

SERIAL # / SERIE # / SÉRIE #

INSTALLED BY: HOMEOWNER PROFESSIONAL

INSTALADOR: DUENO DE CASA PROFESIONAL

INSTALLÉ PAR: PRORIÉTAIRE PROFESSIONNEL

THANK YOU FOR YOUR PURCHASE. WE APPRECIATE YOUR BUSINESS.

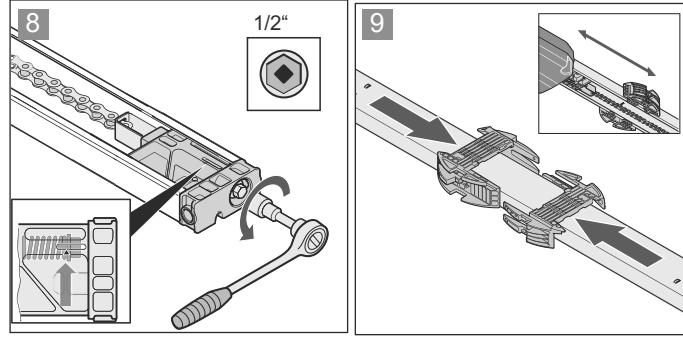
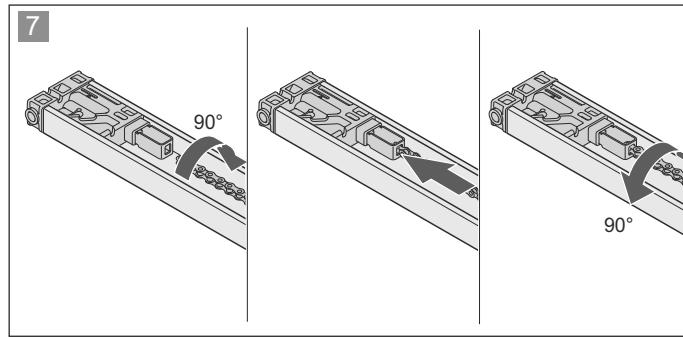
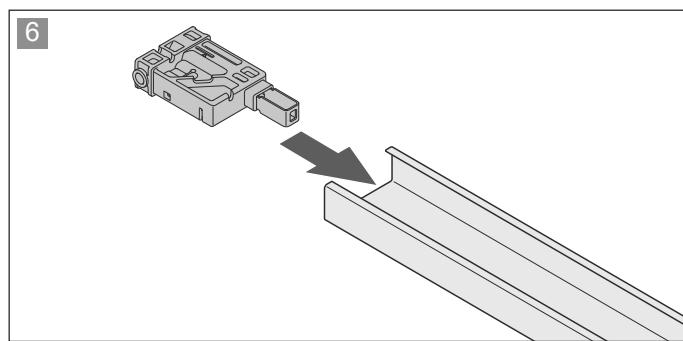
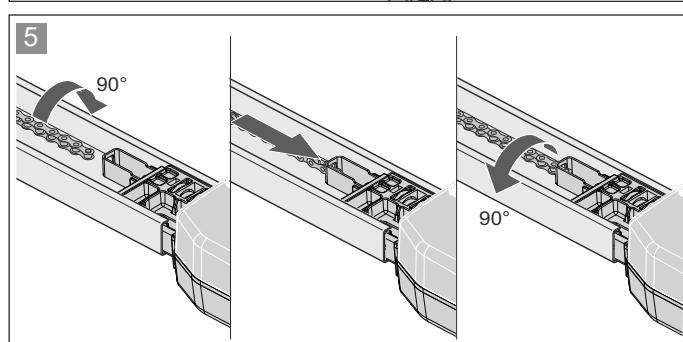
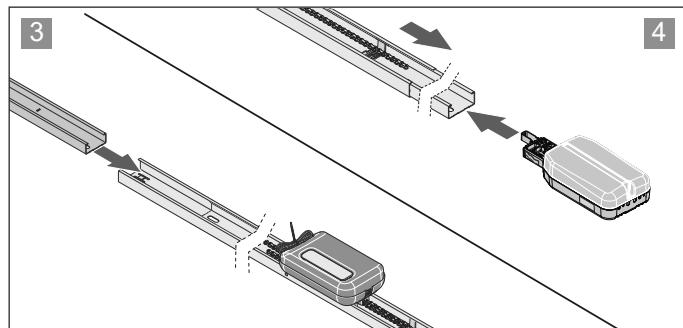
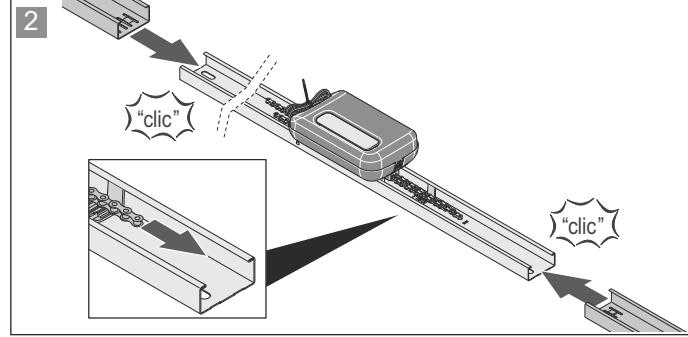
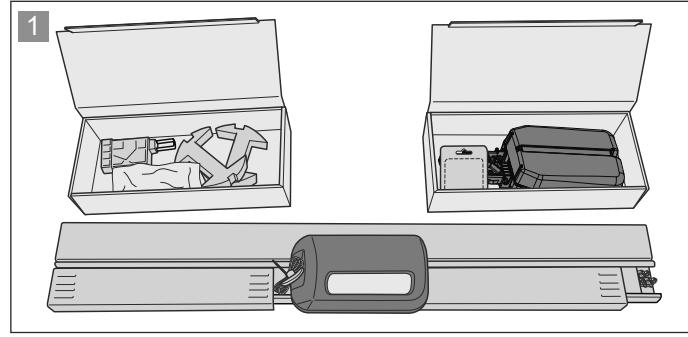
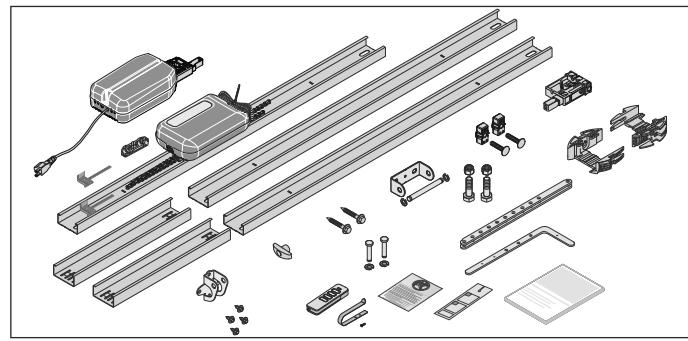
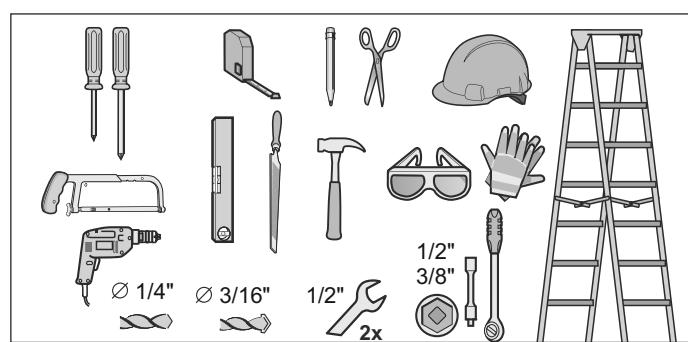
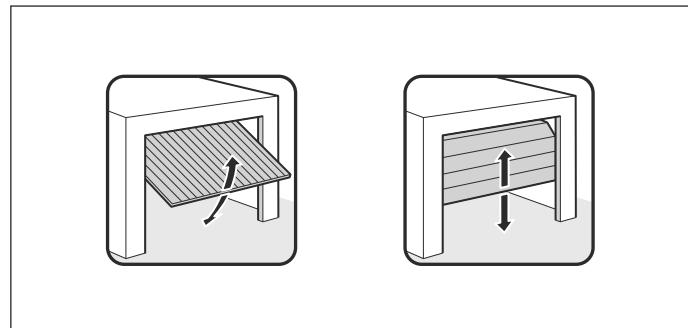
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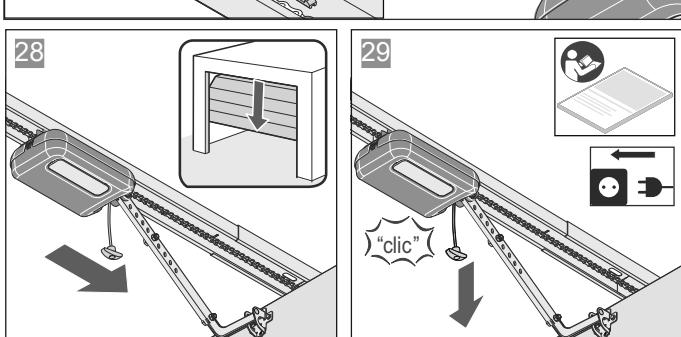
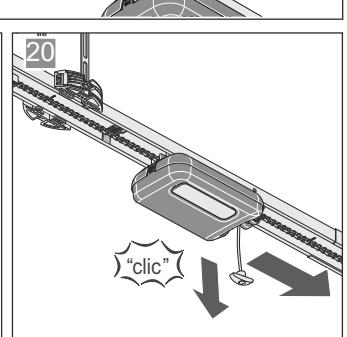
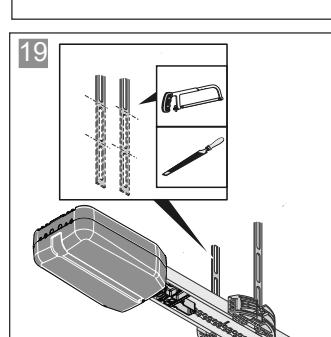
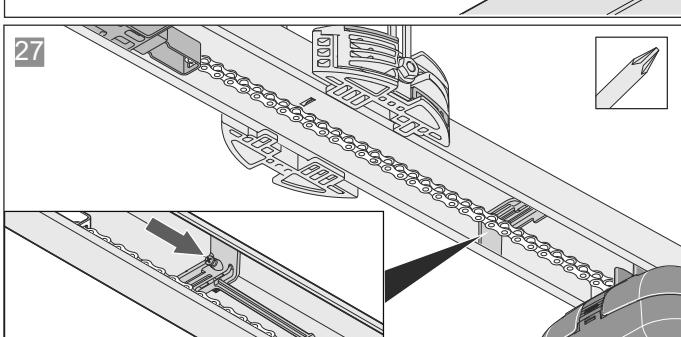
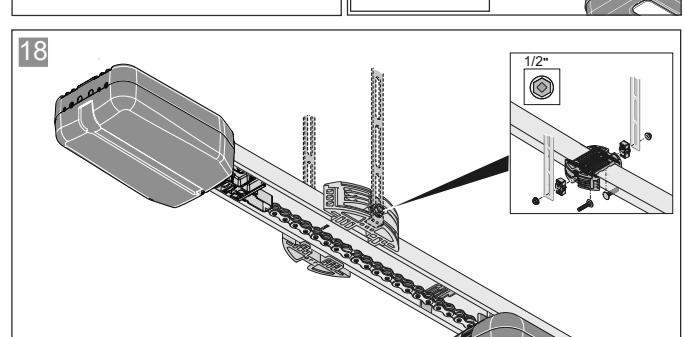
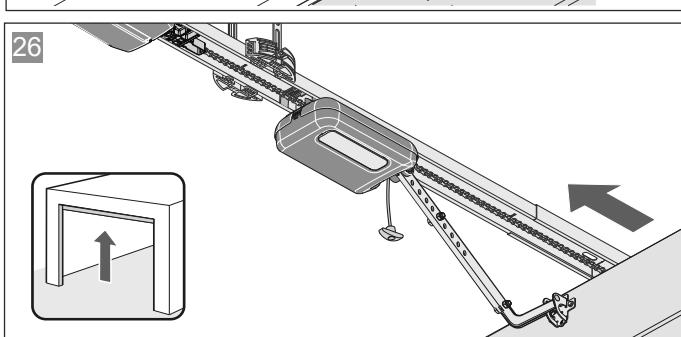
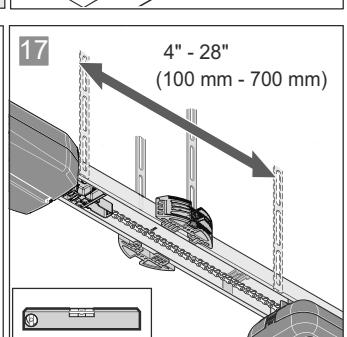
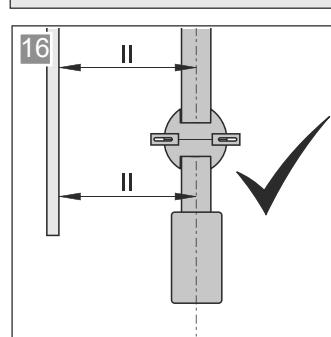
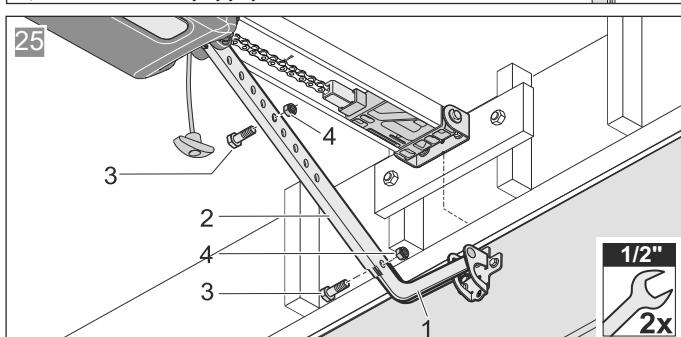
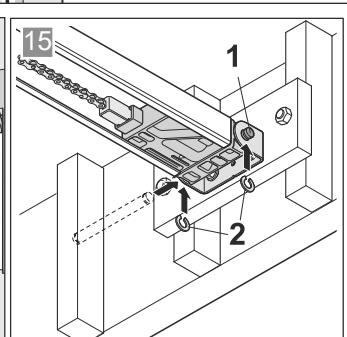
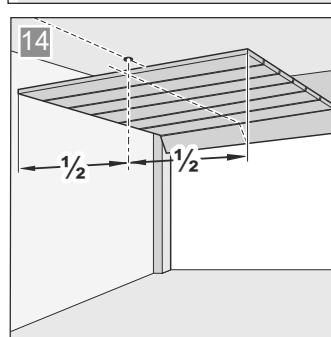
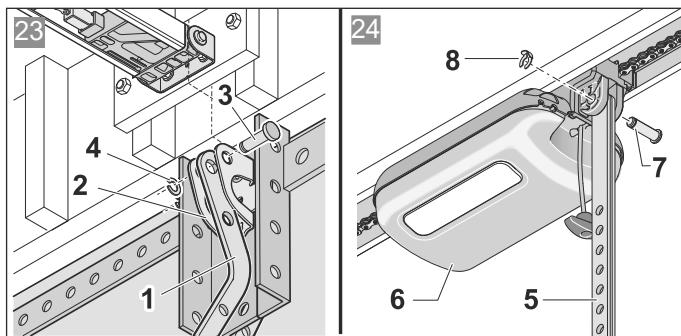
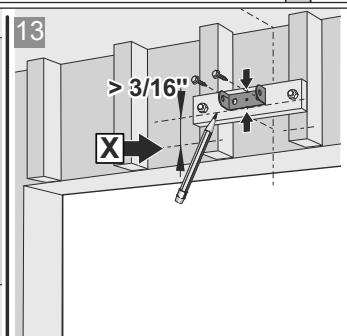
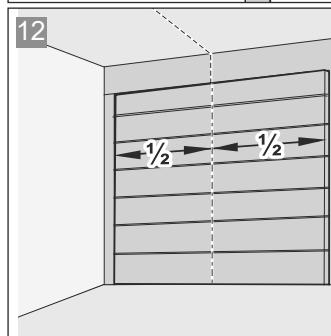
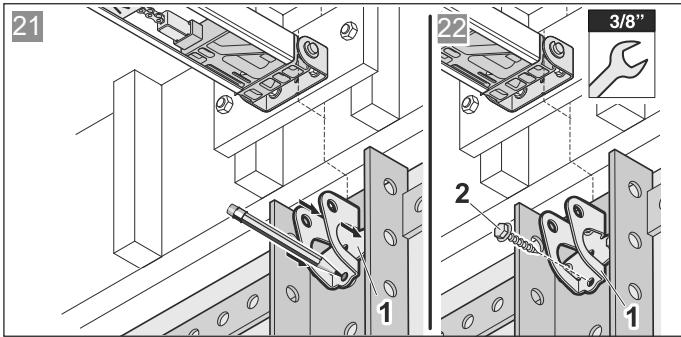
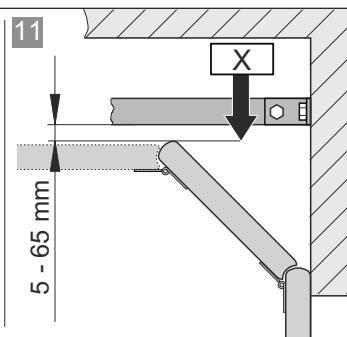
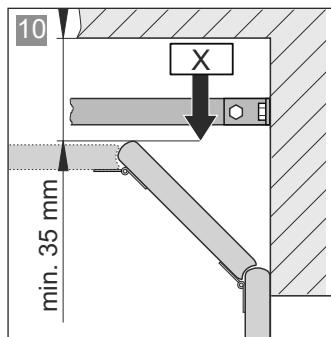
MERCI POUR VOTRE COMMANDE. NOUS SOMMES HEUREUX D'AVOIR COLLABORÉ
AVEC VOUS.

18. Brief instructions for installation

These brief instructions do not replace the installation and operating manual.

Read this installation and operating manual carefully and, most importantly, follow all warnings and safety instructions. This will ensure that you can install the product safely and optimally.





19. Connection diagrams and functions of the DIP switches

Abb. connection plate carriage *

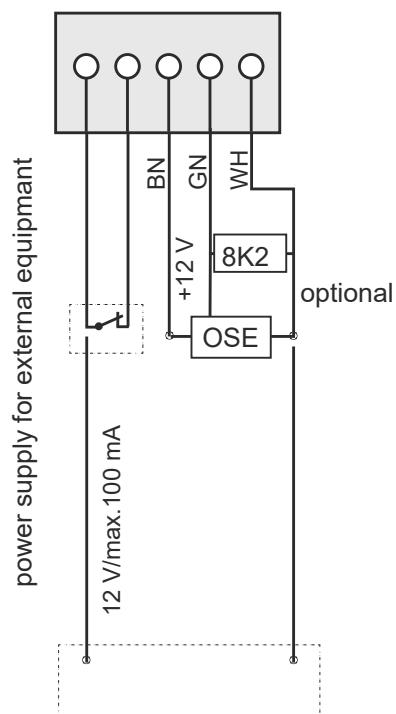
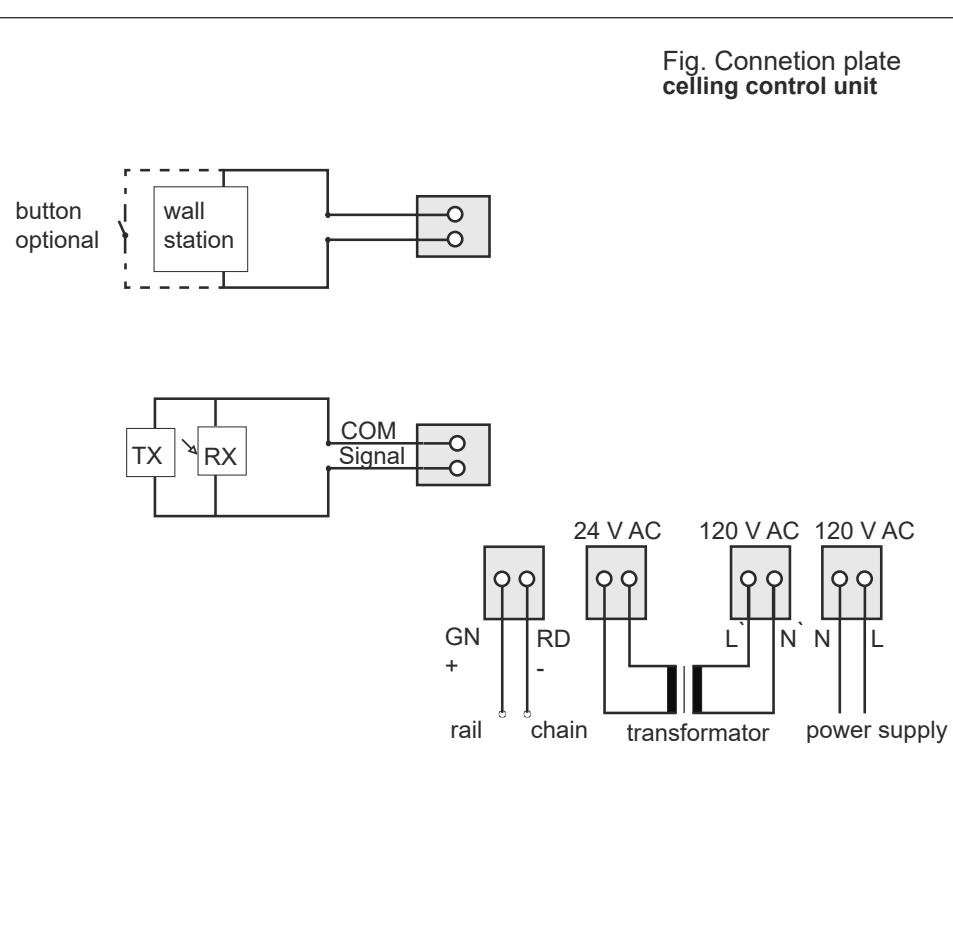


Fig. Connection plate ceiling control unit



DIP switches on the carriage

ON



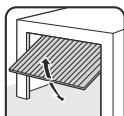
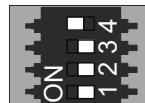
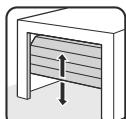
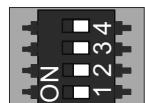
- Automatic closing function activated

- Automatic closing function deactivated



- Partial opening activated / Lighting function deactivated

- Partial opening deactivated / Lighting function activated



DIP switches on the ceiling control unit

ON



- "Conex" additional circuit board
- Button 1 defined door OPEN
- Button 2 defined door CLOSE



- Door status display relay is activated during door movement and if the door is not closed
- Door status display



- No function



- No function

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