



A brand from bau-shop-24 GmbH
Fritz-Müller-Strasse 115
73730 Esslingen, Germany

English

Installation and operating instructions



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S/N	
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WARNING

Please read the manual carefully before you begin the installation and use of equipment. The installation of your new garage door operator must be performed by a competent expert or a specialist company. A competent person is, in accordance with EN 12635, considered a person who has appropriate training, qualified knowledge, and practical experience in order to mount and maintain a door system properly and safely. The installation or repair without technical qualifications can cause serious injury, death and / or property damage.

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Dear Customer

Thank you for choosing a quality product from the brand Easy "made by Schartec". Thanks to our unique quality management system, we continuously ensure that Easy operators meet the highest standards of quality and comfort. Thank you for your confidence in our products and we wish you much pleasure with your new Easy garage door opener.

Declaration of Conformity (CE)

Easy series garage door openers meet the requirements of the applicable European and national guidelines. Compliance was demonstrated that corresponding declarations, certificates, test reports and documents have been obtained by the manufacturer and can be requested if required. The Easy radio equipment type (Art.No.ST601002) complies with Directive 2014/53 / EU. The full text of the EU Declaration of Conformity is available at the following Internet address: www.schartec.de/en

IMPORTANT SAFETY INSTRUCTIONS

1. Intended Use:

The garage door operator is designed exclusively for impulse operation of spring-balanced Sectional and Up & Over garage doors in private / non-commercial operations. Door systems used in a public area have only one protective device, e.g. the force limiter, and may only be operated under supervision. The garage door operator is designed for operation in dry rooms only.

2. Unintended Use:

The garage door operator must not be used for purposes other than for the automation of garage doors. Continuous operation and the use in the commercial sector is not permitted. The operator must not be used with doors without fall protection.

3. Qualifications of the fitter and installer

Proper fitting and maintenance should only be done by a competent / specialist company or a competent / qualified person in accordance with the instructions that can ensure the safe and flawless operation of the assembly. A competent person is, in accordance with EN 12635, considered a person who has appropriate training, qualified knowledge, and practical experience in order to mount a door system properly and safely.

4. Safety instructions for installation, repair, maintenance, and disassembly of the door system

DANGER!

Compensation springs are under high tension.

The adjusting or loosening the compensating springs can cause serious injuries! If necessary, maintenance and repair work must be made by a trained door system technician only! Never attempt to replace, readjust, repair, or move the balancing spring for the counterbalancing of the door or their holders. Inspect that the entire door system (pivots, door bearings, ropes, springs, and fastenings) for wear and possible damage. Check them for signs of rust, corrosion, and cracks. Error in the door system or misaligned doors can cause severe injury! Do not use the door system if repair or adjustment work needs to be done!

Mains Voltage

Danger! Risk of electrocution upon contact with the mains voltage. Therefore, please note the following instructions: Electrical connections may only be performed by a qualified electrician. Electrical installation on site must comply with the relevant safety regulations (230/240 V AC, 50/60 Hz).

Disconnect the operator from the mains before performing any operator service.

WARNING!

Non-suitable fastening materials

Use of unsuitable fixing materials can result in the operator not being securely attached and can become loosened. The supplied mounting materials must be checked for their suitability for the intended installation location by the installer.

Fatal injury from hand rope

A guided type hand rope (pull cord) may lead to strangulation. Remove the pull rope/cord upon installing the operator.

Risk of injury from unintentional door movement

Improper installation or handling of the operator can trigger unwanted door travel and can result in people or objects being pinched resulting in serious injury or death. Follow all instructions contained in this manual. Any incorrectly mounted control devices (such as push buttons) can unintentionally trigger door travel resulting in persons or objects becoming pinched. Control devices must be mounted at a height of at least 1.5 m (away from children). Assemble fixed control devices (such as push buttons) within sight of the door but away from moving parts.

Risk of injury due to unexpected door travel

Installation, maintenance, repair, and dismantling of the operator and the garage door must be carried out by a specialist(s). Upon failure of the garage door operator, directly entrust an expert with the inspection or repair.

Safety advice for mounting

The specialist must ensure that, in carrying out the installation, the applicable regulations regarding occupational safety and those governing the operation of electrical equipment are complied with. National guidelines must therefore be observed. Possible hazards, as defined in DIN EN 13241-1, are prevented by the design and installation according to our specifications. The garage ceiling must be designed so that a secure attachment of the opener system is ensured. If ceiling material is too high or too lightweight, then the opener system must be attached to additional safety/security braces.

CAUTION!

Crushing Risk by Boom Rail Mounting

When assembling the boom rail, there is a danger that fingers can be caught. Take care not to get your fingers caught between the profile ends.

Pinching Risk in the Boom Rail

Grasping with fingers into the boom rail while the door is moving may cause pinching. Grasp only when the door is not moving on the boom rail.

5.Safety information for commissioning and operation

CAUTION!

Pinching Risk in the Boom Rail

Grasping with fingers into the boom rail while the door is moving may cause pinching. Grasp only when the door is not moving on the boom rail.

Risk of injury by pull cord

If you hang from the cord knob, the door can crash down and you may become injured. The operator could become dislodged and injure people underneath, damage or even destroy objects. Do not hang from the pull cord.

WARNING!

Risk of injury by rapidly closing door

If the pull cord knob is pulled while the door is open, there is a risk that the door could close quickly because of weak, broken, or defective springs or due to faulty counterbalance mechanism. The pull cord should only be pulled while the door is closed.

Risk of injury during door movement

While the door is moving, the risk of injury to persons or damage to objects is increased while standing in the movement area of the door. Keep door operator system and remote controls out of reach of children. Ensure that when the door is moving that no persons or objects are located within the door movement area. Only use the garage door operator when you have view of the garage door itself and can monitor its movement. Monitor the door travel until the door has reached the end position. Drive or pass through the garage door entryway **ONLY** when the door has come to a standstill! Never stand directly under the open door.

Proper Use

Demonstrate to all persons using the door operator system the proper and safe operation of the garage door operator. Demonstrate and test the mechanical release as well as the safety return.

6. Precautions for the use of the remote control

WARNING!

Risk of injury from unwanted or accidental door movement

Accidental pressing of a button on the remote control can lead to unwanted door movements and lead to accidental injury. Make sure that remote controls are not accessible to children and are only used by persons who have been instructed in the operation of the remote-controlled garage door operator system! Only use the remote when you are in visual contact with the door unless a safety device is connected (e.g. photocell). Drive or pass through the garage door entryway **ONLY** when the door has come to a standstill! Never stand directly under the open door. Note that the accidentally pressing a key on the remote (for example in your pocket / handbag) may lead to an unwanted door travel.

7. Safety Installations

Safety-related functions and components such as automatic power shutdown and the use of external photocells have been tested and meet the requirements of EN 12453 and EN 12445 standards.

WARNING!

Risk of injury from malfunctioning safety devices

To test the safety reverse, hold the door as it closes with both hands. The garage door operator system must stop and initiate the safety reverse. Test this also as the garage door opens. The door system must switch off and stop the door movement. Upon failure of the security reverse, directly entrust an expert with the inspection or repair.

8. Inspection and maintenance

The garage door operator is maintenance-free. According to the manufacturer and for your own safety, we recommend that you allow the garage door operator system to be inspected by an expert. A check or a necessary repair should only be performed by a specialist. Please also contact your supplier. A visual inspection may be carried out by the user. Check all safety and security features on a monthly basis. Existing errors or defects must be rectified immediately. Inspect the tension of toothed belt every six months and adjust accordingly if necessary. During the opening and closing phase, the belt may loll briefly because of rail profile. However, this effect does not have any technical losses and also does not adversely affect the function and life of the belt.

WARRANTY CONDITIONS

Warranty

We are exempt from the warranty and product liability if the unit has been modified without our prior consent or improper installations are performed or initiated against our assembly instructions.

Furthermore, we assume no responsibility for the inadvertent or negligent operation of the operator, as well as for the improper maintenance of the operator and accessories, nor for the improper maintenance of the door and its counterbalance mechanism. Batteries, light bulbs, and LEDs are also excluded from the warranty claims.

Duration of Warranty

In addition to the legal guarantee of the dealer from the purchase contract, we provide the following warranty from date of purchase:

- 2 Years
- 2 Years on radio receiver and accessories

The warranty time is not extended upon using a warranty claim. For replacement deliveries and rectification work, the warranty period is six months or at least the remainder of the warranty period.

Conditions

The warranty applies only to the country where the product was purchased. The product must have been purchased through our authorized distribution channels. The warranty only covers damage to the contractual item itself. Reimbursement of expenditure for dismantling and installation, testing of corresponding parts, as well as demands for lost profits and damages are excluded from the guarantee.

The receipt of purchase serves as proof of warranty.

Performance

For the duration of the warranty, we shall resolve any defects of the product which are demonstrably attributable to a material or manufacturing defect. At our discretion, we shall, free of charge, replace the defective product for a non-defective, repair or refund a diminished value. Excluded are damages caused by:

- Improper installation and connection
- Improper commissioning and operation
- External influences such as fire, water, abnormal weather conditions
- Mechanical damage due to accidents, dropping or shock
- Negligent or deliberate destruction
- Normal wear and tear or poor maintenance
- Repair by unqualified persons
- Use of non-original parts
- Removal or obscuring of the serial number
- Replaced parts become property of the manufacturer

PRODUCT DESCRIPTION & FEATURES

1. **Automatic safety reverse**

Automatic stop / automatic reverse are controlled by the software on our circuit boards. We are cautious to protect your children, pets and property.

2. **Soft start / Soft stop**

Gently ramping speed up and down at the start and end of each cycle reduces stress on the door and opener, and makes for longer life and quieter operation.

3. **Auto-Close (photocell required)**

Auto-Close ensures peace of mind and keeps your house secure by automatically closing the door after entering or exiting the garage.

4. **Force-dependent operation**

The operator adapts its performance to the necessary force required for each position of the door when moving.

5. **Electronic adjustment of the end positions**

The end positions can simply be taught in with the control panel on the operator.

6. **Terminal strip for additional control elements**

External control elements, e.g. an internal push button or safety devices such as a photocell, signal light, or slip contact (wicket door).

7. **Energy saving LED interior lighting**

Three minute LED light with each open or close cycle to illuminate your garage.

8. **Self-Lock**

The Easy operators have a self-locking mechanism and also secure the garage against burglaries.

9. **Manual operation**

Thanks to the manual unlocking mechanism, the garage door can also be operated manually.

10. **Rolling-Code technology**

Radio transmission using Rolling-Code technology (7.38 x 10¹⁹ combinations) with a frequency of 433.92 MHz. The 4-channel design hand-held transmitters can control up to 4 different Easy operators.

PRE-INSTALLATION RECOMMENDATIONS

1. Check the garage door and garage door system

DANGER!

Balancing springs are under high tension. The readjustment or loosening of the balancing springs can cause serious injuries! For your own safety, necessary maintenance and repair work of the balancing springs should only be performed by an expert. Never attempt to replace, readjust, repair, or move the balancing springs for the counterbalancing of the door or their holders. Check the entire door system (pivots, door bearings, ropes, springs and fastenings) for wear and possible damage. Check them for signs of rust, corrosion and cracks. Error in the door system or misaligned doors can cause severe injury! Do not use the door system if repair or adjustment work needs to be done!

The construction of the operator is not designed to operate sluggish doors, i.e. doors that can no longer or hardly be manually opened or closed. The door must be in a mechanically healthy state that is easy to operate by hand (EN12604). **Open the garage door approximately half way and let go. The door should maintain this position and move neither up nor down.** If the door moves in either direction, then there is the risk that either the balancing springs/weights are not properly adjusted or defective. In this case, increased wear and malfunctioning of the door is expected. Check that the door can open and close correctly. **Disengage/Remove any mechanical locks that may be on the door -- they are not needed with the use of the garage door operator.** These include in particular the locking mechanisms connected with the door. For installation and commissioning, check the illustrated section. Take note of the text in the appropriate sections.

2. Required Clearance

The clearance between the highest point of the door travel and the rail must be at least 30 mm. For a lower clearance height, and if space is available, the operator can be mounted behind the opened door. In these cases, an extended door link must be used and may be purchased separately. The necessary electrical outlet for the electrical connection should be mounted within approx. 50 cm from the operator (refer to the electrical mains chapter).

Check these dimensions!

Important note: As an additional safety device, the use of a photocell (safety beam) is recommended (sold separately).

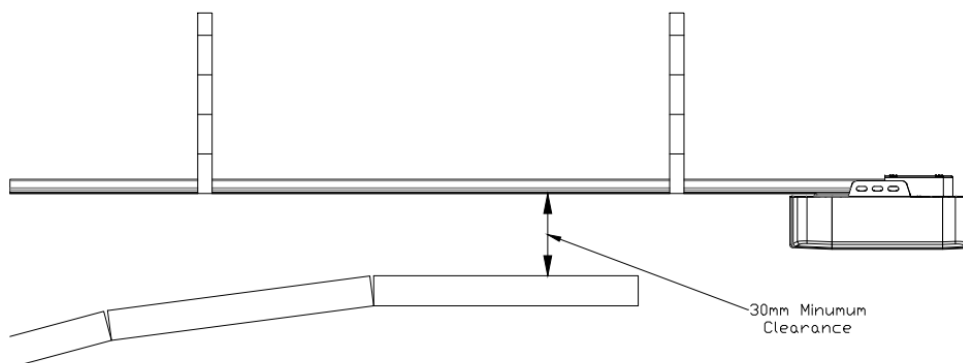


Figure 1

3. Emergency release

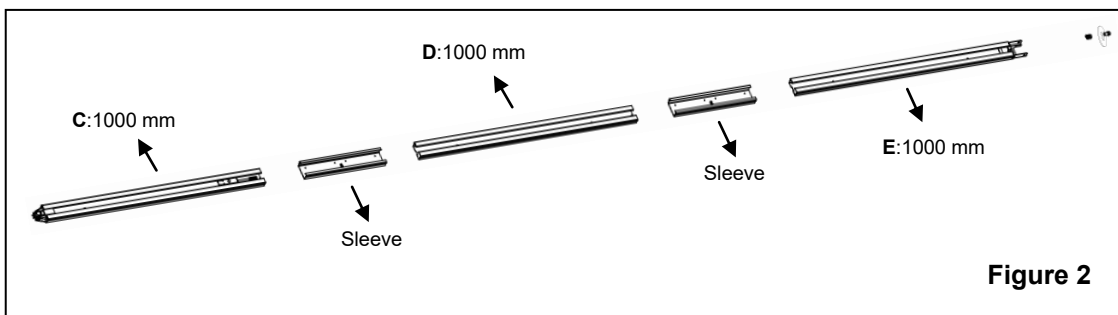
For garages without a second entrance, an emergency release for the mechanical release is necessary to prevent getting locked in the garage in the event of power failure. The emergency release is door-specific and must be ordered separately.

Check the function of the emergency release monthly.

INSTALLATION INSTRUCTIONS

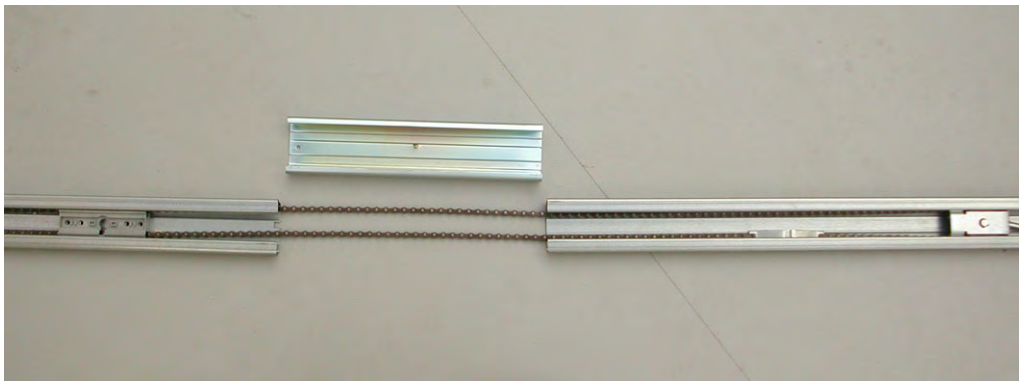
Steel Boom Rail Assembly

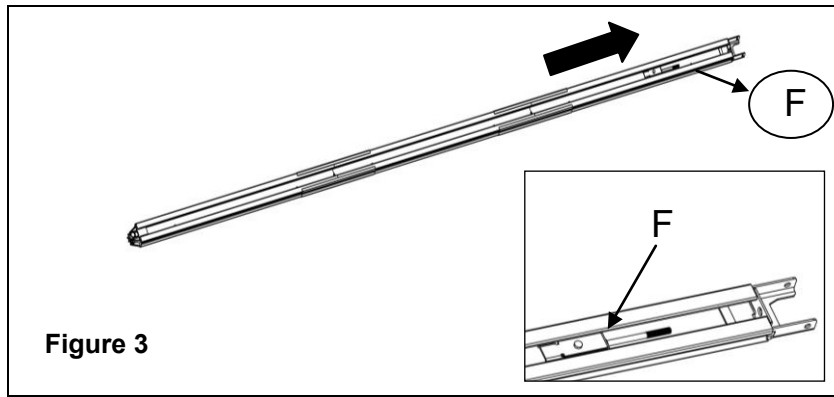
3 Part Boom Rail



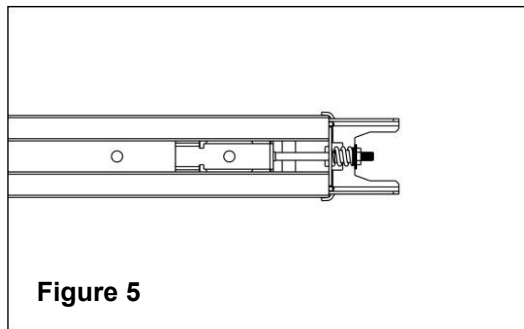
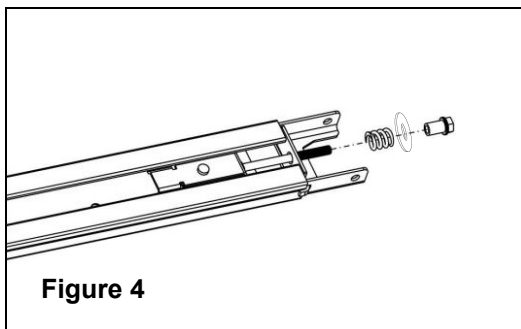
3-Part Rail

As in Figure 3, slide piece C into the first sleeve, followed by piece D. Then slide piece D and E into the second sleeve.



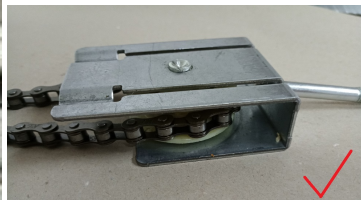


2. Pull the screw rod along with inner chain to the end rail position (Figure 3).



3. Now run the spring and nut on the threaded rod as shown in Figure 4.

4. Tighten the nut to the proper position as shown in Figure 5. Make sure that the chain sits clean on the rear sprocket and the front pulley (see pictures below). Otherwise, the threaded rod can not be pushed far enough through the hole (Fig. 5).



Richtig!



Falsch!

Mounting the Wall Bracket and Door Bracket

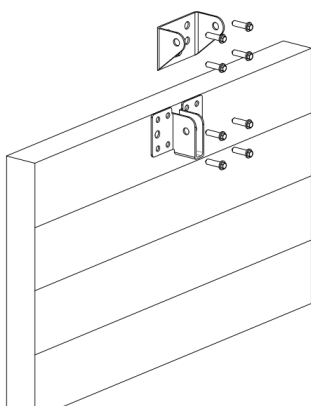


Figure 6

Wall Bracket – Close the garage door and measure the garage door width at the top and mark the center. Locate and mount the wall bracket 2 cm - 15 cm above the door on the inside wall. (Depending on the actual installation space).

Door Bracket – Attach the door bracket to a structural part of the door as close to the top edge as possible.

Installation of boom rail and operator

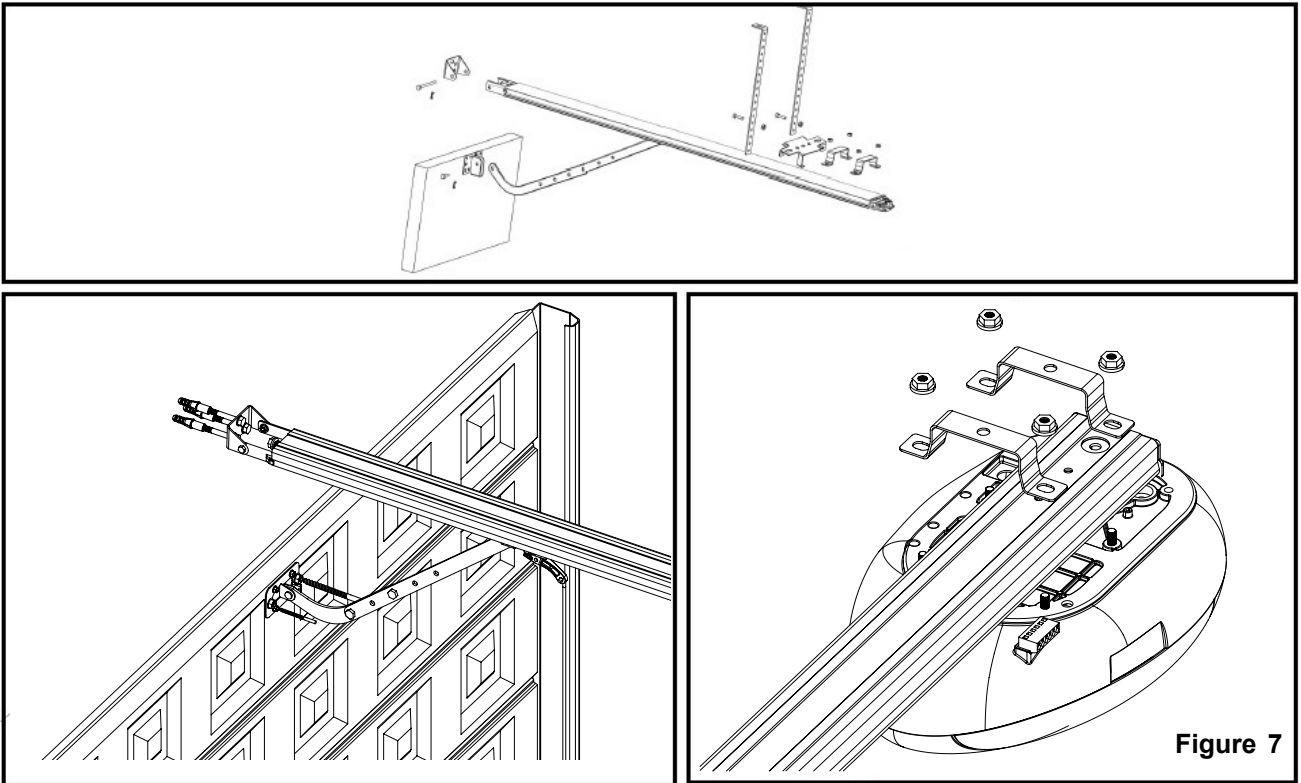
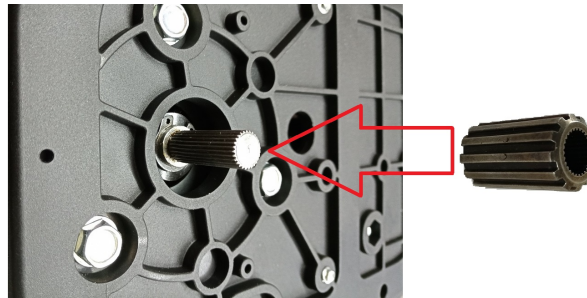


Figure 7



STEP 1 (Figure 7)

Place the adapter piece on the motor shaft (photo). Attach the operator to the boom rail. Assemble the 2 "U" hanging brackets with 6 mm nuts supplied.

STEP 2 (Figure 7)

Place the boom rail and operator assembly centrally on the garage floor with the operator opposite the garage door. Lift the front of the rail up to the door bracket. Insert the pivot pin and secure it with the split pin supplied.

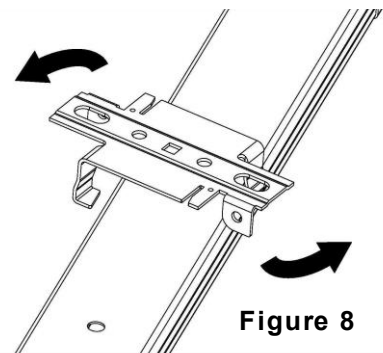


Figure 8

STEP 3 (Figure 8 and 9)

Attach the Easy-Click bracket towards the back-half of the boom rail. Position it where you would like to mount the boom to the ceiling. Once the bracket is in position, bend the 2 side pieces under to secure the bracket to the boom.

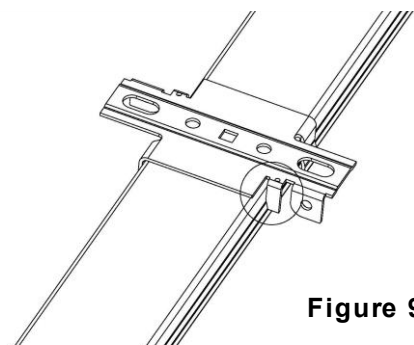


Figure 9

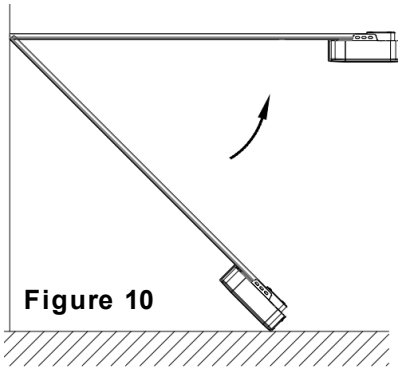


Figure 10

STEP 4 (Figure 10)

Lift and support the operator with a ladder so it is positioned centrally and level.

WARNING: Do not allow children around the door, opener or supporting ladder -- serious injury and/or damage may result from failure to follow this warning.

STEP 5 (Figure 11 and 12)

With the boom rail securely positioned on your ladder, attach the Easy-Click bracket to the ceiling mounted extension pieces with the nuts, washers, and bolts provided.

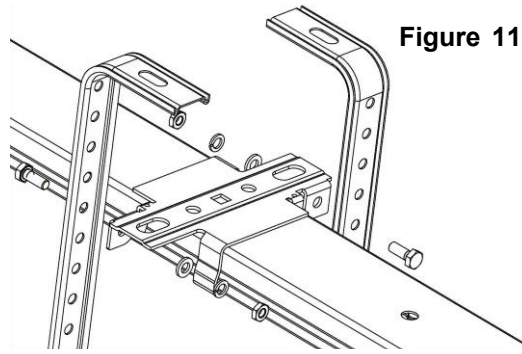


Figure 11

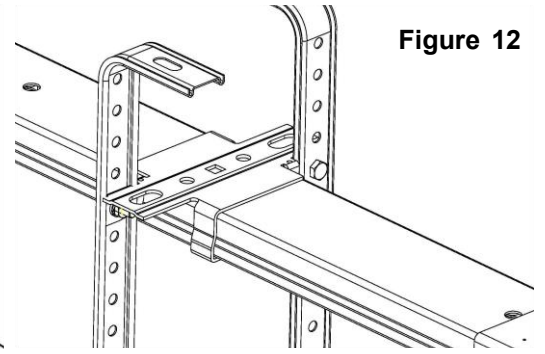


Figure 12

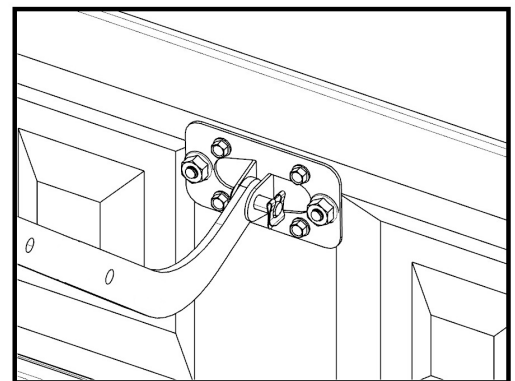
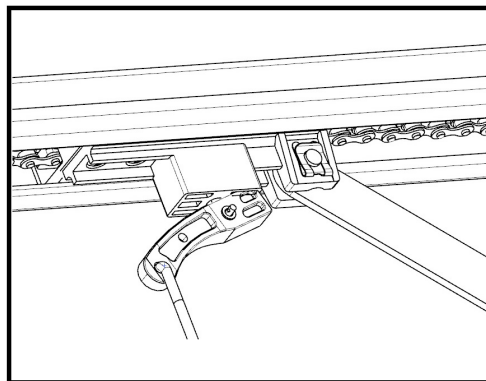
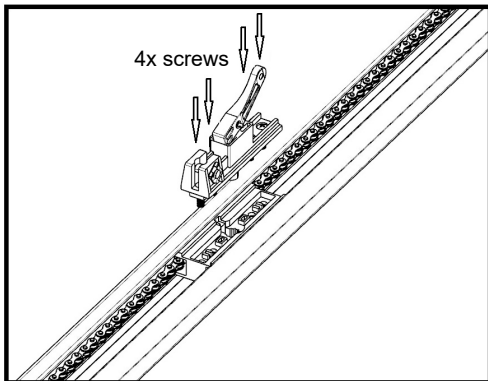


Figure 13

















STEP 6 (Figure 13)

Now slide the shuttle to the front of the rail with the garage door closed. Attach the curved arm to the shuttle and to the door leaf bracket, as shown in Figure 13.

STEP 7

Lift the garage door until the shuttle locks into the drive chain/belt. The operator is now ready to be programmed.

PROGRAMMING INSTRUCTIONS

Preparing		
1	Lock the emergency pull cord into the trolley until the carriage is locked into the chain so that the garage door can no longer be moved by hand.	
2	The operator can now be plugged in. The LED-display shows 99 down to 11. Once finished, the operator is now in Standby-mode.	
3	Finally, it displays "- -".	
Setting Open and Close Positions		
1	Press and hold SET until the operator displays "P1".	
2	Press SET again, it displays "OP".	
3	Then press and hold UP, it flashes "OP".	
4	When the door has reached the desired open position, press SET, it displays "CL".	
5	Then press and hold DOWN, it flashes "CL". When the door has reached the desired closed position, press SET.	
6	The door opens and closes automatically to map the open and close sensitivity force requirements.	
7	It displays "- -" to show the process is complete.	
Self Learning Transmitter		
1	When the unit has stored 20 codes, it flashes "Fu". In this case, it is necessary to erase all the stored codes.	
2	Press and hold CODE, it displays "Su".	
3	Continue to hold for just over 8 seconds, it flashes "dL", all codes were just erased.	
Adding or Changing Transmitters		
1	Press CODE, it displays "Su".	
2	Press a button on the remote control, then release and press the same button again, "Su" flashes,	
3	Then it displays "- -" to show process is complete. Repeat this process to a maximum of 20 different remotes and/or buttons.	

Obstruction Force Adjustment (Menu option P2 in display)

CAUTION: the obstruction force adjustment is set automatically during programming. Normally, no adjustment is necessary.

The factory-set forces (value F5) are designed to provide a smooth operation of the opener with standard garage doors; the factory setting forces should, in principle, be sufficient to fully open and close the garage door.

The factory setting of the operator complies with the legal or relevant standards (such as the EN 13241-1, EN 12453, EN 60335-2-95) established requirements for operational forces, and thus the maximum allowable power limits.

If necessary, the force used by the operator may be increased or decreased (values F1 - F9) by the following procedure below.

NOTE

This must be done when, for example, the end-stop point of the garage door during the opening or closing phase via the factory setting (value F5) is not met; the setting for the force output can be increased (as described below) so that the respective end-points are reached.

In addition, during the operational period of the garage door, the operational optimality may deteriorate (e.g. slackening of tension springs). Therefore, for safety reasons, adjusting force of the operator on an unsound garage door could result in a malfunctioning door, thus increasing the risk of personal injury or property damage -- this risk is especially increased when activating the manual release of the garage door from the operator.

DANGER

Deviating/Increasing the factory force setting (value F5) can lead to serious personal injury, up to the danger of life as well as property damage! Altering the factory force setting increases the pressure exerted by the operator when opening and closing the garage door, thus increasing the force that the garage door exerts in each respective phase. When changing or differing from the factory settings, the risk of severe injury to persons up to the danger of life as well as the risk of damage to property is increased - for example, by pinching or squeezing persons or things near the garage door. Differing from the factory settings, increasing the power setting to exceed the aforementioned maximum allowable limit can cause power limitations. Therefore:

NOTE:

Adjusting the factory force setting (value F5) to an alternate value (value F1-F9) must be ensured to be compliant with the legal requirements and relevant standards of force limitations by a competent person. Inspections must be performed and documented to the described risk of injury and exclude life and property.

Force Adjustments

1	Press and hold SET until the operator displays "P1".	P1
2	Press UP once, it displays "P2",	P2
3	Press SET once again, it will show the current force level. Press UP to increase the force or press DOWN to decrease. Maximum setting is "F9", minimum is "F1".	F9 F1
4	Press SET to confirm. The factory setting is "F5".	F5



After completing any force adjustments, be sure to carry out a force measurement.

Photocell

1	Press and hold SET until the operator displays "P1".	P1
2	Press UP twice, it displays "P3" .	P3
3	Press SET once again. Press UP once, it displays "H1", the photocell is enabled. Press down once, it displays "H0", the photocell is disabled. Press SET to confirm selection.	H0 H1
4	If you do not use photocell device, make sure it displays "H0" to disable this function.	H0

Auto-Close ON/OFF

1	Press and hold SET until the operator displays "P1".	P1
2	Press UP three times, it displays "P4".	P4
3	Press SET once again. Press UP to increase the auto-close one minute or press DOWN to decrease one minute. Maximum degree is "b9" , minimum is "b0". Press SET to confirm.	b0 b9
4	The default setting is "b0", which means auto-close is off. This function works when the door reaches the open position and only works when a photocell is connected.	b0

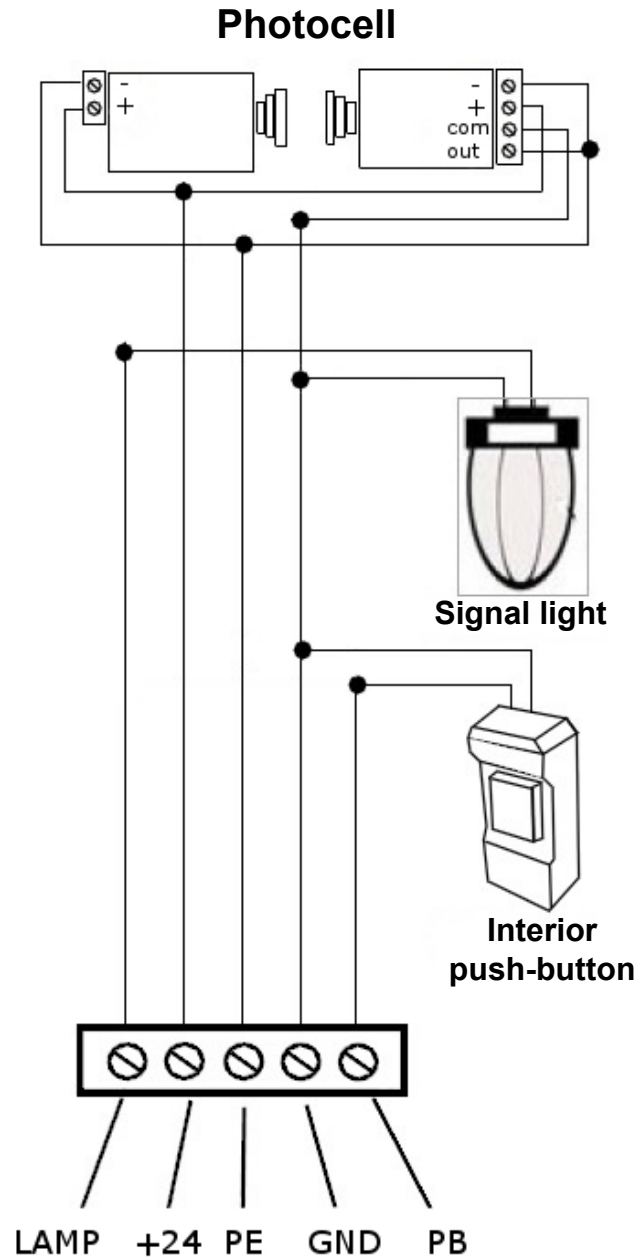
Force Adjustment

1	Press and hold SET until the operator displays "P1".	P1
2	Press UP four times, it displays "P5".	P5
3	Press SET once again. Press UP to increase the force or press DOWN to decrease the force. Press SET to confirm the desired force adjustment.	1 - 9



The setting goes from 1-9, where 1 is the lowest value and 9 is the highest value. The factory setting is 9.

CONNECTIONS



- PB** = Interior push-button
- PE** = Photocell
- GND** = - (Ground)
- +24** = + (24 V DC)
- LAMP** = Signal light
- STOP** = not used

MANUAL DISENGAGEMENT

Attach warning label

Attach the warning about the risk of entrapment in a permanently prominent, clean place. For example, near the permanently installed buttons used to open and close the garage door opener.

The opener is equipped with a manual release cord to disengage the shuttle and enable moving the door by hand while holding the handle down (Figure 14). Pull on the handle to disengage the shuttle. To re-engage the door simply run opener in automatic mode or move door by hand until the trolley engages to the belt/chain shuttle.

In situations that a pedestrian door is not installed or available (2nd entrance to garage), it is recommended that an external disengagement device should be fitted (not supplied) (Figure 15).

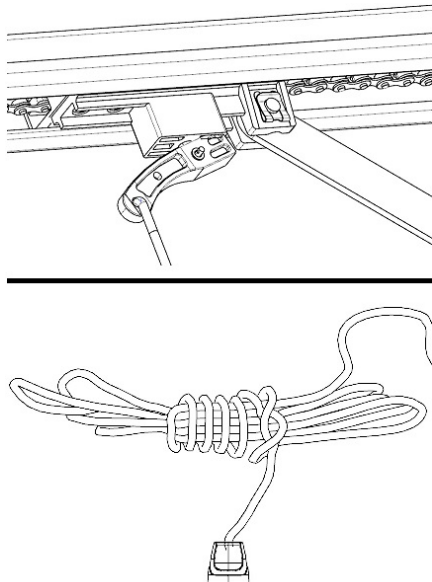


Figure 14

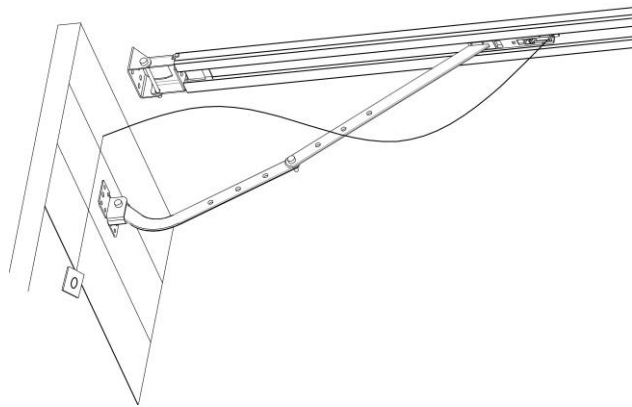


Figure 15

TECHNICAL SPECIFICATIONS

Max. door size	Max. door weight	Max. door Height	Frequency	Standby power	Voltage	Working Temperature	Opening speed
12 m ²	120 kg	2250 mm	433.92 MHz	3 Watt	220V~240V; 50Hz~60Hz	-20°C~50°C	12~15cm/Sec.

COMMON FAULTS & SOLUTIONS

Fault appearance	Fault cause	Solutions
Nothing working on opener	<ol style="list-style-type: none"> 1. Power supply 2. Plug wire is loose 	<ol style="list-style-type: none"> 1. Check the power supply from electronic plug on opener. 2. Carefully open the opener cover, check all plug wires on control boards.
Opener not working	Faulty learning on "Up" or "Down" limit travel.	Redo system opening and closing limits. See Programming Instructions.
Door moves up only. Will not move down.	Photocell function has been activated, but without connecting any photocell device.	Turn off the photocell function if photocell device not connected. See Programming Instructions.
Up and Down moving is reversed	Reversed plug wire between gear motor and motherboard	Firstly, disconnect power supply, then open the cover and reverse the plug wire between gear motor and board. Rerun system opening and closing limits.
Door was automatically reversed 15-40 cm before the door closed completely	Automatic Safety Return. Due to an old and improperly adjusted garage door. Unbalanced, weak, or defective springs.	<ol style="list-style-type: none"> 1. Check the door springs in all door positions. 2. Re-set the system open/close limits 3. Increase the force setting for automatic reverse.
Remote is not working	<ol style="list-style-type: none"> 1. Dead battery 2. Antenna is loose or not well extended 3. Interference between remote/receiver 	<ol style="list-style-type: none"> 1. Replace battery 2. Extend the antenna on the opener 3. Remove interference
Cannot code in new remotes	<ol style="list-style-type: none"> 1. Maximum stored remotes reached 2. New remote is not compatible with opener 	<ol style="list-style-type: none"> 1. Press "Code" button over 8 Sec until LED displays "dL". All stored codes deleted, code in new remotes again 2. Use only original approved remote controls
Display shows "—" or "≡", opener does not work.	<ol style="list-style-type: none"> 1. Loose gear motor plug wire 2. Damage to gear motor 3. Damage to control board 	<ol style="list-style-type: none"> 1. Re-insert plug wire on gear motor 2. Replace gear motor 3. Replace control board
Display shows "—" oder "≡" after opener has only moved a few centimeters	<ol style="list-style-type: none"> 1. Hall sensor wire plug has loosed between hall sensor and board. 2. Hall sensor or board is damaged 	<ol style="list-style-type: none"> 1. Check the wire plug 2. Check the hall sensor 3. Replace control board
<p>NOTE: In accordance with EN 12635, only a competent person / expert may carry out the above corrections</p>		