

TECKENTRUP

DOOR SOLUTIONS

Item: TT60EVFA-GB

en

Assembly- and operating instructions for Garage Door Opener

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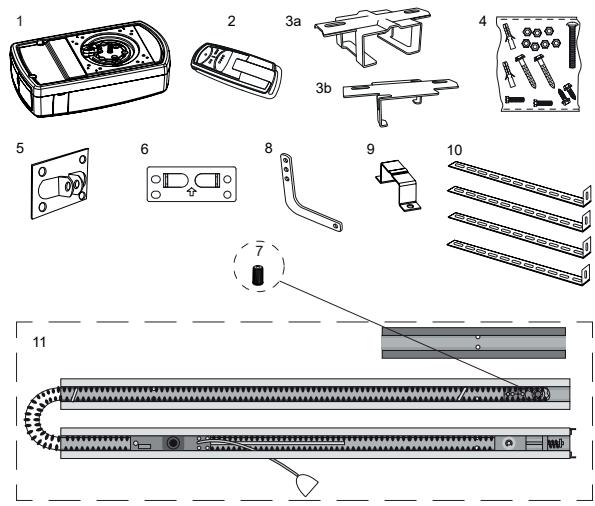
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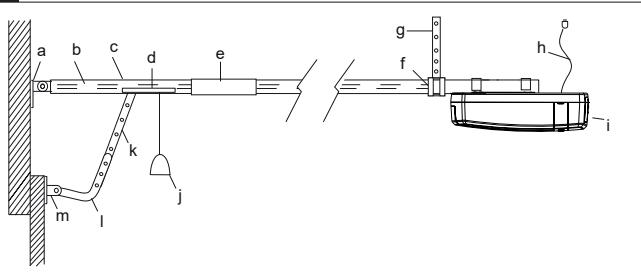
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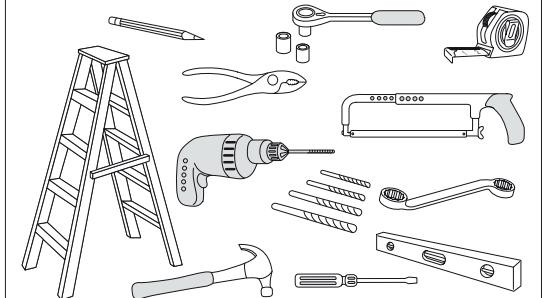


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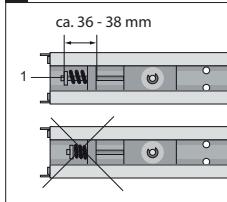
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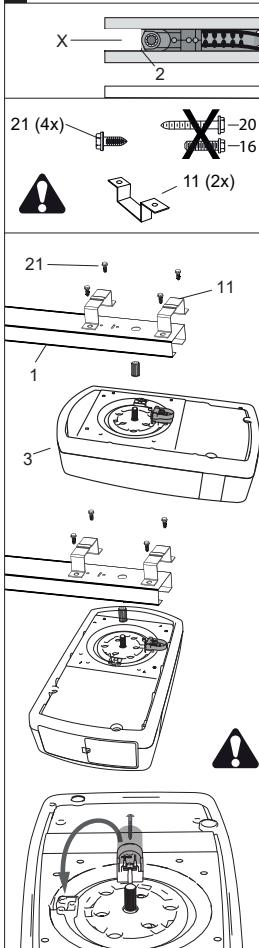
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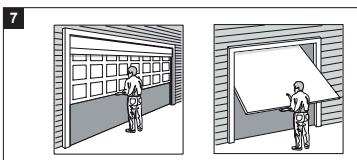
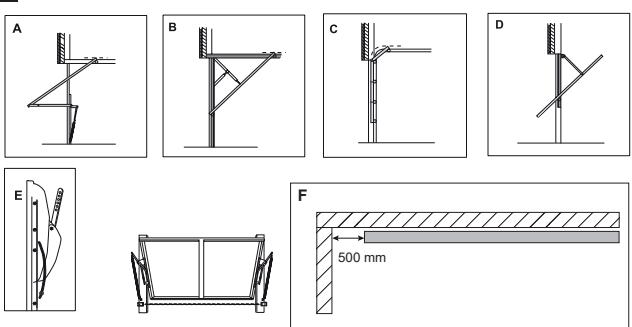
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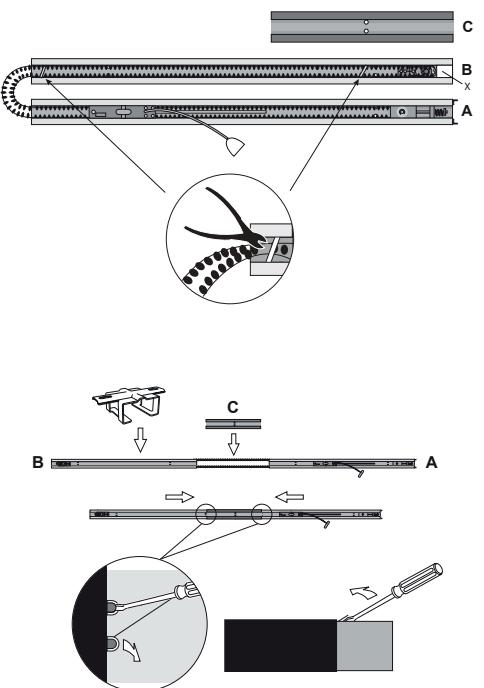
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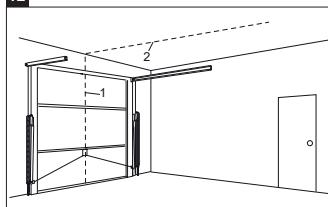
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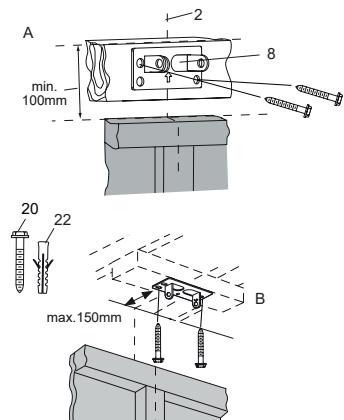
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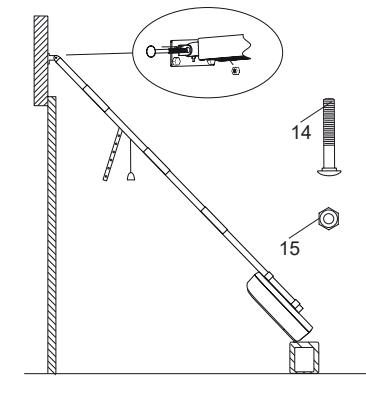
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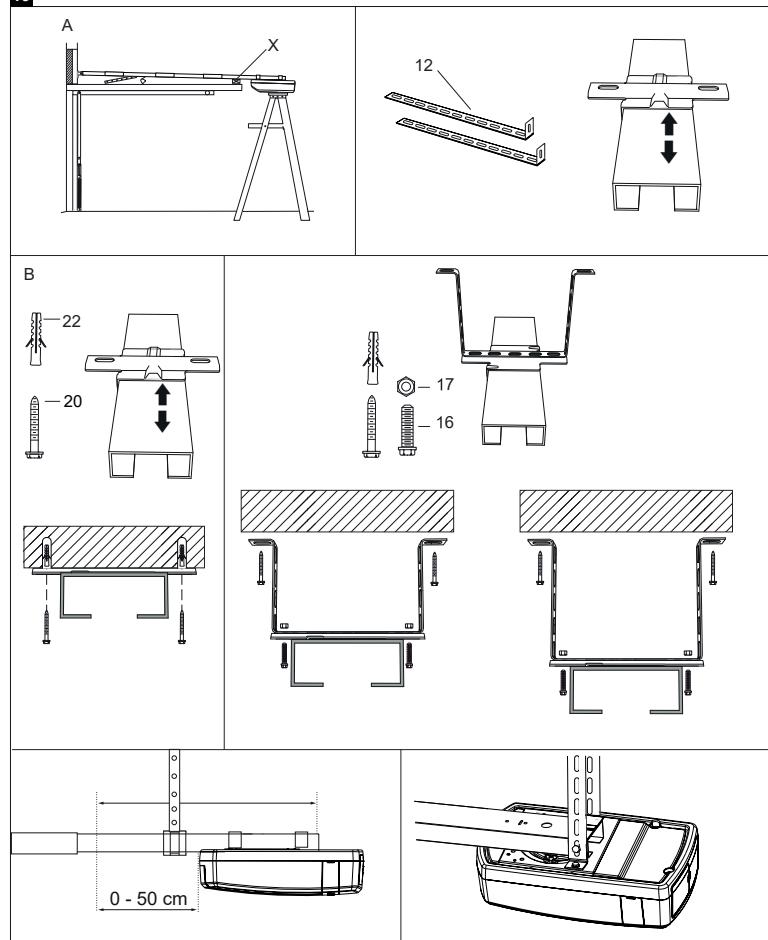
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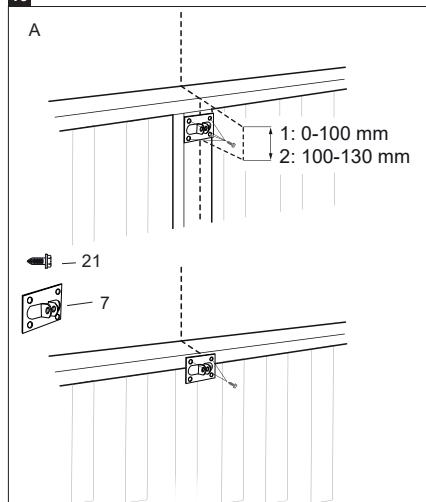
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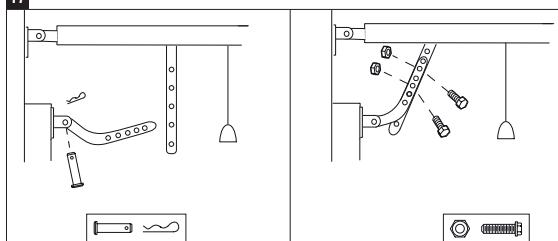
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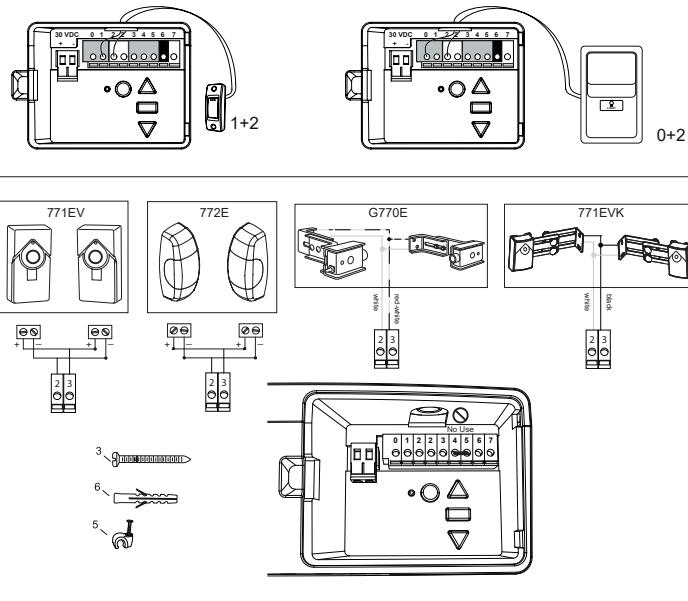
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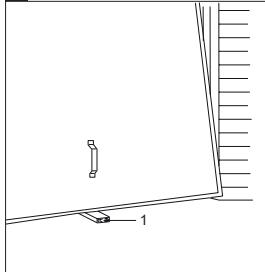
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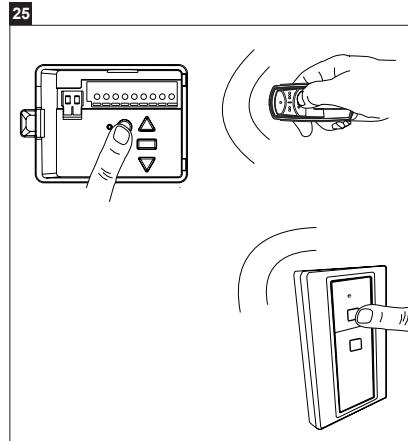
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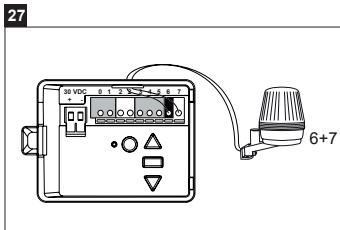
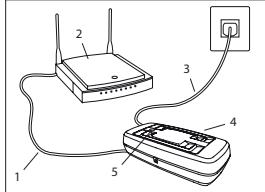
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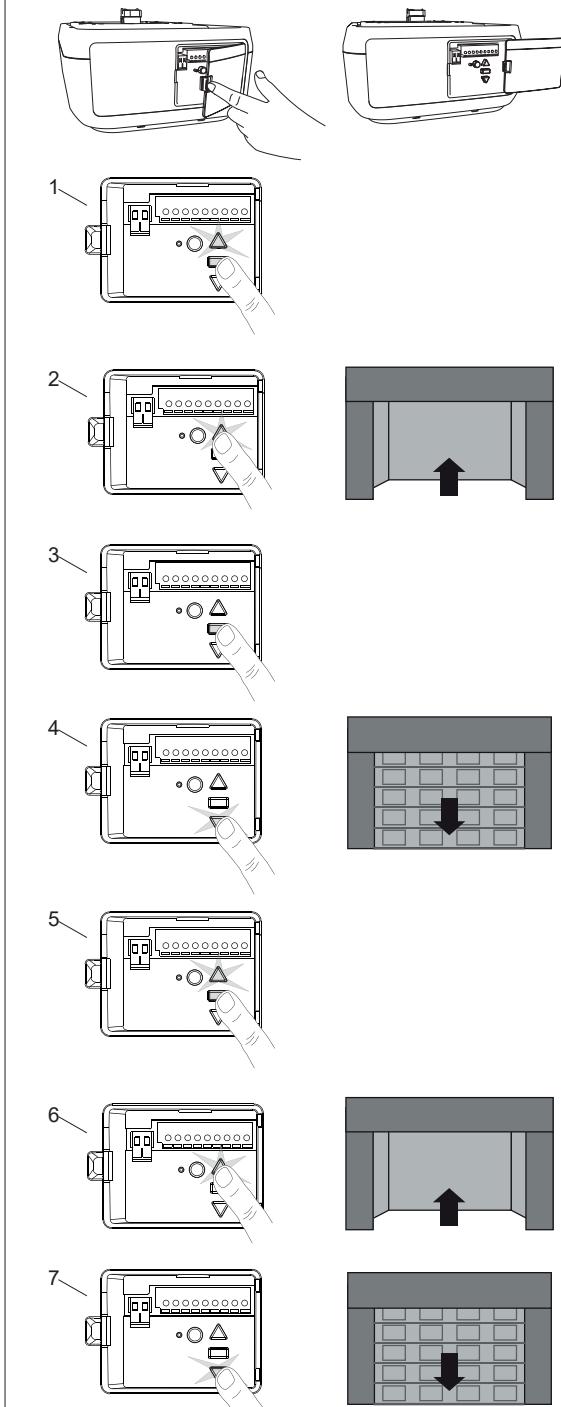
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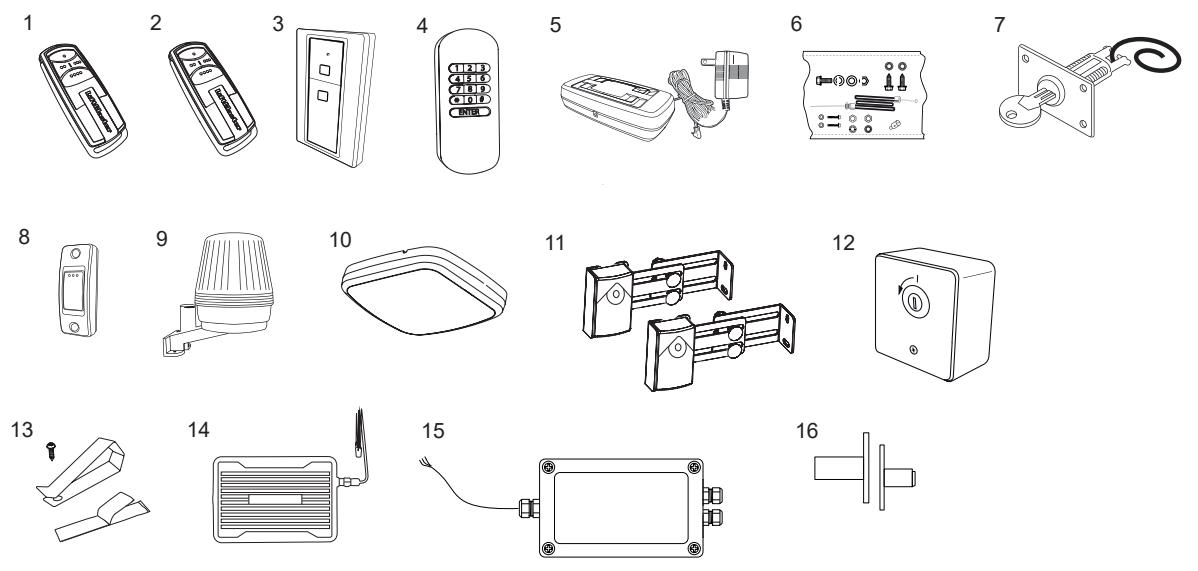
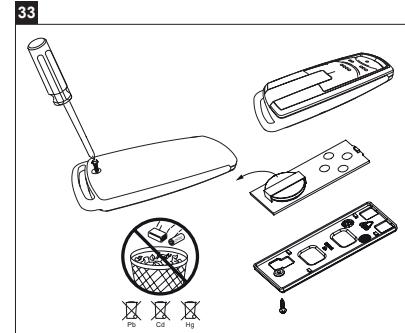
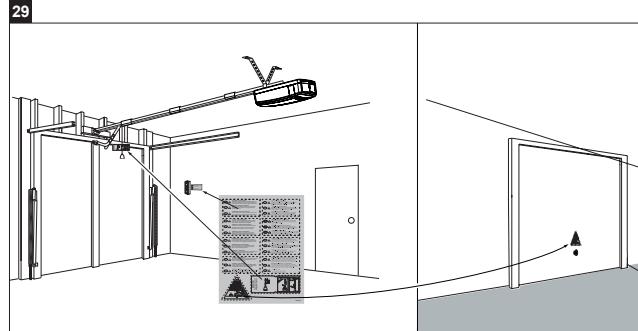
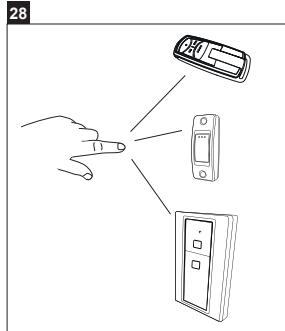
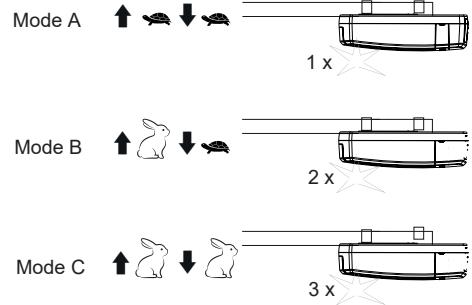
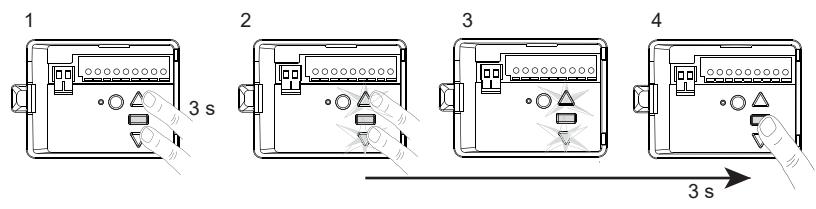


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Note:

The original installation and operating instructions were compiled in English.

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WARNING!

START BY READING THESE IMPORTANT SAFETY INSTRUCTIONS!

1 General safety guidelines

Before installation, commissioning and operation, and before removal, read the manual carefully. Observe all warnings and safety instructions. Read the safety instructions listed below, those are strictly adhered to during installation and operation. If safety instructions are not observed, serious injury or death may result.

Everyone must understand their task handling the product during transportation, handling, installation, operation, maintenance, testing, troubleshooting, repairs, disassembly and disposal.

- **WARNING:** Important safety instructions. Follow all instructions since incorrect installation can lead to severe injury.



The hazard symbol indicates the hazard. The signal word is linked to a hazard symbol
The hazard is classified into three classes depending (DANGER, WARNING, CAUTION)



CAUTION
Danger due to electric current or voltage

- The garage door opener is subject to the Machinery Directive 2006/42/EC and was designed in accordance with the state of the art and recognized technical regulations.
- Keep this installation and operating manual all time accessible to all users at the place of use. Pass in case of transfer or sale to third party the documentation of this operator to the new owner.
- The installation and disassembly of the operator may only be performed by a qualified specialist
- The instructions must be observed and complied with. The installer/user must also comply with the applicable national regulations. In other countries the national regulations might vary, the installer/user must observe and comply with the applicable national regulations.
- The installation shall be carried out by an installer (specialist)
- The installer (specialist) installing the garage door opener must have knowledge of the following standards EN 13241, EN12604, EN 12453; The trained specialist/expert must instruct the user/operator in the following:
 - The operation of the drive and its dangers
 - The procedure of the manual emergency release mechanism
 - The regular maintenance, inspection and care, and his tasks
 - The operator must instruct other users on the operation of the drive
- The qualified specialist must inform the user which work may only be carried out by a qualified installer/specialist.
- After successful installation of the drive, the person responsible for the installation of the drive in accordance with the Machinery Directive 2006/42/EC must issue the EU declaration of conformity for the door system. The CE mark and a name plate must be attached to the door system. This is also obligatory in the process of retrofitting on a manually operated door. Further, a handover file with CE declaration, protocol of the handover, the installation/operating manual, for the garage door opener and the door shall be delivered.
- The user /operator must ensure:
 - The compliance of the doors system.
 - Keeping this installation and operating manual accessible, at the place of use, at all times.
 - Having all users trained on standard and emergency operation and risks associated with.
 - Ensuring the door system is working properly, to repair, if required
 - Executing regular maintenance
- This system must not be installed in damp or wet areas
- The automatic safety reverse system should undergo a test. Upon contact with a 50 mm high obstacle on the ground, the garage door MUST return. Failure to properly adjust the door opener can result in serious personal injury from a closing garage door. Repeat test once a month and make any needed changes
- Danger due to projecting parts, during operation, the door (parts) should not under any circumstances obstruct public passageways, public roads or footpaths. This also applies while the door is moving. Persons and animals may be seriously injured. Keep public roads and footpaths clear.
- Watch the moving door and keep people away until the door is completely opened or closed (not necessary for automatic drives).
- For safe operation, warning notices next to the control elements / wall switches must be affixed for the protection of children, users. The anti-trap warning signs must be clearly visible

WARNING!

1 General safety guidelines

- Children must never play with or use the operator, even under supervision. Transmitters or other control devices must never be given to children. must be safely stored and protected against unintended and unauthorized use. Children must be kept clear of the operator.
- This device is not intended for use by persons (including children) with restricted physical, sensory or mental abilities or lack of experience and/or knowledge, unless they are supervised by a person responsible for their safety or have received instruction in how to use the device.
- All barriers / locks are deactivated to avoid damage to the door.
- If necessary, installed control equipment MUST be mounted within sight of the door and out of reach of children. Children should not be allowed to operate the buttons or remote controls. Misuse of the door opener can result in serious injury.
- The garage door opener should ONLY be used if the operator can see the entire door area and is assured that it is free of obstacles and the door opener is set correctly. No one may pass through the door while it is moving. Children must not be allowed to play in the vicinity of the door.
- Persons may be trapped inside the garage. If trapped persons cannot free themselves, severe injury or death may result. Check the functionality of the emergency release regularly. Defects must be repaired immediately by a specialist.
- Activation of the manual release may cause uncontrolled movement of the door due to mechanical failures or an out-of-balance condition.
- When operating in hold to run mode, make sure that other persons are kept away
- The door should be balanced. Unmoving or stuck doors must be repaired. In an unbalanced state, garage doors, door springs, cables, discs, brackets and rails are under extreme tension, which can lead to serious injury. Do not attempt to loosen, move or realign the door, contact service / door professional.
- During the installation or maintenance of a garage door opener no jewelry, watches or loose clothing should be worn. Wear and use appropriate safety clothes (safety shoes, appropriate work clothes, safety helmet, work gloves, safety goggles) for the respective work. Only use approved work equipment (tools, ladders, etc.).
- During installation and electrical connection the local building and electrical regulations must be observed. Installation, testing and replacement of electrical components must be carried out by a trained electrician. This device complies with Protection Class 2 and does not require grounding.
- Vertical moving doors need an anti-drop feature or device.
- To avoid damage to very light doors (such as fiber glass, aluminum or steel doors), an appropriate reinforcement should be added. To do so, contact the door manufacturer.
- Use the manual release only for the separation of the carriage from the drive and – if possible – ONLY with the door closed. Do not use the red handle to push the door up or pull it down.
- Mount the release handle of the emergency release at a height less than 1.80 m.
- For doors with a door in door (wicket door), the garage door opener can only move if door in door is closed.
- The connection for door in door switch, safety edge and a second photocell require the ADP-1EVO adapter. These must comply with EN12453.
- Frequently examine the installation for imbalance where applicable and signs of wear or damage to cables, springs and mounting. Do not use if repair or adjustment is necessary (see and follow door manufacturer instruction).
- Lack of maintenance can lead to unsafe operation.
- The supply cord of this drive shall only be replaced by same type as supplied by the manufacturer.
- Before performing any repairs or removing covers, the door opener should be separated from the electric power supply.
- The repairs and electrical installations may be performed only by an authorized electrician. Repairs to the drive unit may only be carried out by qualified personnel/specialists. Only original spare parts shall be used. If these instructions are not observed, serious injury or death may result.
- Read carefully the instructions within the manual for handling the product during transportation, in house handling, installation, operation, maintenance, testing, troubleshooting, repairs disassembly and disposal
- The user has the right to request the operating instructions in paper form free of charge.

2 Intended use

This garage door opener has been designed in accordance with the requirements of the EU Machinery Directive 2006/42/EC. The garage door opener has an integrated radio receiver. Optional accessories are available and described, they may have different use. The garage door operator is intended exclusively for the opening and closing of garage doors (please refer to section 6 "Door Types"). Note the manufacturers specifications regarding the door and operator combination. The door must meet mechanical requirements according EN 12064. Any improper use of the drive could increase the risk of accidents. The manufacturer assumes no liability for such usage. Only the original accessories may be connected to the drive. With this drive, the door must comply with the current and valid international and country-specific standards, guidelines, and regulations EN 13241/EN 12543, EN12604.

3 Scope of supply

Please check the supplied parts for completeness before starting the installation. Note: The numbering only applies to the corresponding section.

Parts overview:

Parts overview (Rail):

1.	Drive head	1x	5.	Door bracket	1x
2.	Remote control	2x	6.	Header bracket	1x
3a.	Slide on rail bracket	1x	7.	Adapter for gear wheel	1x
3b.	Rotaiting rail bracket	1x	8.	Curved door arm	1x
4.	Hardwarebag	1x	9.	C-bracket	2x
			10.	Hanging bracket	4x
			11.	2-piece rail	1x

Hardwarebag:

14.	Truss head screw 6 x 80 mm	1x	19.	Safety cotter pin	1x
15.	Lock nut M6	1x	20.	Screw ST 6 x 50 mm	6x
16.	Hexagonal head screw	6x	21.	Screw ST 6,3 x 18 mm	8x
17.	Nut M6	6x	22.	Plug	6x
18.	Bolt	1x			

4 Product overview

- a. Header bracket
- b. Belt
- c. Rail
- d. Carriage
- e. Connecting piece
- f. Rail bracket
- g. Hanging bracket
- h. Power cable
- i. Drive head
- j. Release
- k. Straight door arm
- l. Curved door arm
- m. Door bracket

5 Before you begin

IMPORTANT NOTE

If your garage does not have a side entrance, an external emergency release should be installed. This allows for manual operation of the garage door from the outside during power failure.

6 Door Types

Mechanical requirements according EU: EN12604 / GB (UK, NI): BS EN 12604.

- A. One-Piece Door with Horizontal Track Only.
- B. One-Piece Door with Horizontal and Vertical Track – Special canopy door arm is required and the Protector System™ required. See your dealer.
- C. Sectional Door with Curved Track.
- D. Canopy door – Special canopy door arm and the Protector System™ required. See your dealer.
- E. The Canopy Door Arm for use on door types B and D.
- F. Side moving sectional door - In the opening direction, the gap between the main edge in open direction of a side moving sectional door and the opposite edge must be more than 500 mm. See section F installation drawing.

7 Preparation

First, check whether your door is balanced and in equilibrium. Open your door about halfway and let it go. The door can now hardly change its position **independently**, but must remain in this position held by the spring force alone.

- 1. The rail of the garage door MUST be connected securely and firmly to the supporting wall or ceiling above the garage door.
- 2. Additional brackets and mounting rails (not included in the supply) might be required, if the your garage ceiling has a cladding, boards or similar.
- 3. If your garage does not have a separate side entrance, an external emergency release (refer to section 34 "Optional Accessories") must be installed.

8 Tools required

Tool list:

Ladder	Hacksaw
Marking pen	Different drill bits for concrete and(or wood (8, 6, 5, 4.5 mm)
Pliers	Box wrench
Drilling machine	Water level
Hammer	Screwdriver
Ratchet 10 mm / 13 mm	Measuring tape



9 Assembling the rail

Important instructions for a safe installation.
Observe all assembly instructions.
Incorrect installation can cause serious injury.

The rail is largely preassembled and consists of 1, 2 or 3 parts, depending on chosen variant.

The carriage, push rod, release handle, the guide pulley and the lintel bracket with belt tensioner are in the front part (A). The seating for the drive shaft and the sprocket are in the rear part (B). Lay the front and rear rail sections one behind the other.

1. Remove cable ties that secure the belt.
2. Put the slide on rail bracket on the rail segment BEFORE assembling the rail and BEFORE you secure the rail to the motor unit.
3. Pull apart the two rail sections completely in order to create a gap for the middle section (C). This rail is designed in such a way so as to easily add the middle section. Slide the 2 connecting pieces (D) over the seams of the rail sections up to the markings. To secure the connecting pieces, bend the sheet metal lugs outwards with a suitable tool.

The assembly of the rail is complete.

10 Tighten the belt

Tighten the belt of the rail until the spring (1) is compressed only by about half. The spring must compress and be able to bounce during operation.

11 Fitting rail to the drive

1. Check if the belt is seated on the gear-wheel. If the belt has slipped off during assembly, relax the belt, lay it and tighten again.
2. Turn around the rail (1) and completely put on the opener (3) with the gear side (2).
3. Secure the rail on the opener with two mounting brackets (11) and the screws (21).

Optional:

To reduce the total overall length by 140 mm the drive can be rotated by 90° as shown in fig.11. This allows access and programming sideways. Unscrew the switch and mount it to the designated second position. Remove the rubber plug in order to seal the cable exit. Proceed with step 3. The change must be made by an authorized electrician.

12 Centre of the garage door

Eye protection goggles should be worn for overhead work. All available barriers / locks should be deactivated to avoid damage to the door.

To avoid serious injuries, remove all cables and chains connected to the door before installing the door opener. The door opener should be mounted at a height of at least 2.10 m above the ground.

First, mark the centre line of the door (1). Draw a line to the ceiling starting from this point.

For installation on the ceiling, draw another line to the centre of the ceiling (2) perpendicular to the door starting from this line. Length approx. 2.80 m.

13 Mounting header bracket

Note: Mount the rail max. 50mm above the top edge of the door. Depending on the door type, the top edge of the door is lifted by a few cm during opening.

A. Wall fastening:

Mount header bracket (8) centrally on the vertical centre line (2); thereby its lower edge lies on the horizontal line. Mark all holes for the header bracket. Pre-drill holes with 4.5 mm diameter and fasten the header bracket with wood screws (20).

Note: In case of mounting on a concrete slab / concrete header, the provided concrete plugs (22) and screws (20) should be used. Drill hole size in concrete: 8 mm.

B. Ceiling suspension:

Draw vertical centre line (2) further up to the ceiling and about 200 mm along the ceiling. Attach header bracket (8) centrally on the vertical marking up to 150 mm removed from the wall. Mark all holes for the header bracket. Drill holes with 4.5 mm diameter and fasten the header bracket with wood screws (20).

14 Attaching drive to header

! It may be necessary to place the drive temporarily higher, so that the rail does not hit the springs in sectional doors.

The drive must either be well supported (ladder) or held firmly by a second person. Put drive head on garage floor under the lintel bracket. Lift rail up till the holes of the fixing part and the holes of the lintel bracket are aligned. Insert screw (14) through the holes and secure with nut (15).

15 Hang opener

Fully open the door, put down door opener on the door (Fig. A). Lay a piece of wood / cardboard on the marked spot (X).

The opener must be securely fastened to a structural support of the garage.

Three representative installations are shown (Fig. B). Yours may be different. Hanging brackets (12) should be angled to provide rigid support. On finished ceilings, attach support bracket(not delivered) to a self-supporting structural element before installing the opener. For concrete ceiling mount, use concrete anchors (22) provided.

On each side of opener measure the distance from the opener to the structural support (or ceiling). Cut both pieces of the hanging bracket to required lengths. Flatten one end of each bracket and bend or twist to fit the fastening angles. Do not bend at the bracket holes. Drill 4,5mm pilot holes in the structural supports (or ceiling). Attach brackets to supports with wood screws (20).

Lift opener and fasten to hanging brackets with screw (16) and nut (17). Check to make sure rail is centered over the door.

Remove piece of wood / cardboard. Operate door manually. If door hits the rail, raise header bracket.

After the installation of the garage door drive, particularly using a rail extension, if the rail is observed to be bent up or down for more than 5 cm during the beginning or end of the travel as well as while encountering an obstacle, a central suspension must be provided by the customer. For this, please contact the manufacturer of the garage door drive.



Pay attention to a horizontal course of the rail along the ceiling. The distance can be adjusted by the given hole spacing. Protruding ends of the ceiling fixture can be reduced if necessary.

16 Mounting door bracket

Installation in sectional or one-piece doors:

The door bracket (7) has multiple mounting holes. Attach door bracket top centre on the inside of the door as shown. Mark holes and screw door bracket.

NOTE: The attachment point on the door must be the frame or a stable place on the door panel. If necessary, drill through and screw (not included) together as shown in Fig. B.

17 Attaching door arm on the trolley

The straight door arm is already pre-assembled.

Recommended installation:

The trolley can be separated from the drive by pulling the red handle and manually pushing towards the door. When the door is closed, fix the curved door arm (10) on the door bracket with the bolt (18) and secure with cotter pin (19). Connect straight and curved door arms together flush with an overlap of 2 holes with screw (16) and secure with nut (17). Choose the holes in such a way that the door arm stands at an angle of about 30-40°.

NOTE:

The curved door arm can be omitted, if the door fitting has been attached at the far upper edge of the door.



Mount the release handle of the emergency release at height of less than 1.80 m. Attach the yellow label regarding the release of the garage door opener (sticker) on the cord of the door handle.

18 Electrical connection

 In order to avoid personal injury and damage to the device, the door opener should be operated only if such an instruction is explicitly stated in this manual. The power plug must always be accessible for the purpose of disconnecting the mains supply. Electrical installations may only be undertaken by an authorized electrician.

19 Install illuminated push button or Multi-function door control (optional accessory)

Locate door control where the garage door is visible, away from door and door hardware and out of the reach of children. Mount at least 1,5 m (5 feet) above the floor. Permanently fasten the caution label permanently to the wall near the door control as a reminder of safe operating procedures. There are 2 terminals on the back of the door control. Strip about 6mm of insulation from bell wire. Separate wires enough to connect the white/red wire to RED terminal screw and the white wire to WHT terminal screw. Fasten the door control to an inside garage wall with sheet metal screws provided. Drill 4mm holes and use anchors if installing into drywall. A convenient place is beside the service door and out of reach of children. Run the bell wire up the wall and across the ceiling to the garage door opener. Use insulated staples to secure wire.

Operation of the Door Control:

Press to open or close the door.

Press again to stop the door while moving.

20 Installation of photocells (Optional accessory)

After installing and adjusting the door opener, photocells can be installed. The instructions for installation are included in the scope of delivery of the light barrier and must be followed. **The optional photocells ensure that the door is open, or remains open, if people, especially young children, are in the door area.** By means of the photocells, a closing door is opened or an open door is obstructed from closing, if a person located in the door area interrupts the sensor beam.

For inspection and maintenance of the photocells, see the manual of photocells. Connection of a second photocell requires the ADP-1EVO adapter.

21 Connecting the opener

Connect opener in accordance with local rules and regulations to a properly installed wall socket.

NOTE: When the opener is switched on, the operator light is also turned on for 2.5 minutes.

22 Program opener and test



The door opener should only be used if the operator can see the entire door area and is assured that it is free of obstacles and the door opener is set correctly. No one may pass through the door while it is moving. Before the first opening operation, check that all the facilities that are not needed are turned off. Remove all mounting aids and tools from the pivot area of the door.

23 Setting the Limits

Travel limits regulate the points at which the door will stop when moving up or down. Follow the steps below to set the limits.

This operator is equipped with a variable speed system. Default speed is set to heavy sectional door speed mode (Mode B): fast opening, slow closing.

Canopy, 1-piece garage doors and any other type of swing out doors must run in slow speed mode (Mode A) to ensure a safe operation according to EN12453.

For more details on speed modes refer to section 27 E.

INTRODUCTION:

Your garage door opener is designed with electronic controls to make setup and adjustments easy. The adjustments allow you to program where the door will stop in the open (UP) and close (DOWN) position. The electronic controls sense the amount of force required to open and close the door. The force is adjusted automatically when you program the travel..

NOTE:

If anything interferes with the door's upward travel it will stop. If anything interferes with the door's downward travel, it will reverse. To watch a short instructional video on programming your new garage door opener use your smartphone to read the Code on this manuals back side or visit www.liftmaster.eu.

PROGRAMMING BUTTONS:

The programming buttons are located under a removable cover on the back side of the garage door opener (see fig24).

1. Press and hold the square Adjustment Button until the UP Button begins to flash.
2. Press and hold the UP Button until the door is in the desired UP position. NOTE: The UP and DOWN Buttons can be used to move the door up and down as needed.
3. Once the door is in the desired UP position press and release the Adjustment Button. The garage door opener lights will flash and the DOWN Button will begin to flash.
4. Press and hold the DOWN Button until the door is in the desired DOWN position. Make sure the rail does not bend. NOTE: The UP and DOWN Buttons can be used to move the door up and down as needed.
5. Once the door is in the desired DOWN position press and release the Adjustment Button. The garage door opener lights will flash and the UP Button will begin to flash.
6. Press and release the UP Button. When the door travels to the programmed UP position, the DOWN Button will begin to flash. Note: IF the door does not travel to the UP position the travel limit programming failed. Begin again with step1. If door travel is too short please refer to section 33 "Frequently Asked Questions".
7. Press and release the DOWN Button. The door will travel to the programmed DOWN position. Programming is complete.

24 Test the Safety Reverse System



The safety reverse system test is important. Garage door must reverse on contact with a 50 mm obstacle laid flat on the floor. Failure to properly adjust opener may result in serious personal injury from a closing garage door. Repeat test once a month and adjust as needed.

OBSTACLE TEST:

Place a 50 mm high obstacle (1) under the garage door on the floor. Move door downwards. The door must reverse when it comes into contact with the obstacle. If upon contact the door **stops**, the door does not move **down** far enough. In this case repeat limit setting. If the door reverses after contact with the 50 mm high obstacle, remove obstacles and open and close the door completely once. The door should not go back, if it reaches the door position „Closed“. If it still reverses both limits must be reprogrammed.

OPENING TEST:

Apply 20 kg to the middle of the door.

The door should not open completely.

For side moving sectional doors follow the requirements as defined under 6F. The side moving sectional door must reverse in closing direction on contact with a 50 mm obstacle between the main closing edge and opposite edge. In open direction the door must stop.

25 Program your opener and remote / the Wireless push button (optional)

Activate the opener only when door is in full view, free of obstruction and properly adjusted. No one should enter or leave garage while door is in motion. Do not allow children to operate push button(s) or remote(s). Do not allow children to play near the door.

Your garage door opener receiver and one of the buttons remote control are pre-programmed. If you purchase additional remote controls, the garage door opener must be programmed to accept the new remote code.

Program the Receiver to Match Additional Remote Controls: Using the yellow round button.

1. Press and release the yellow round button on the opener. The learn indicator light will glow steadily for 30 seconds (1).
2. Within 30 seconds, press and hold the button on the hand-held remote that you wish to operate your garage door (2).
3. Release the button when the opener light blinks once. It has learned the code. Now the opener will operate when the remote control push button is pressed. If you release the remote control push button before the opener light flashes, the opener has not learned the code.

To Erase all Remote Control Codes

To deactivate any unwanted remote, first erase all codes: Press and hold the yellow round button on opener until the learn indicator light goes out (approximately 10 seconds). All previous codes are now erased. Reprogram each remote or keyless entry you wish to use.

26 Connect the Internet Gateway

Before starting you MUST have:

- a router
- active internet connection
- a free “Ethernet” terminal on your router
- internet gateway serial number (on the backside of the device)
- a pair of photocells connected to the garage door opener. If there are no photocells connected the garage door can only be opened.



WARNING!

To prevent possible SERIOUS INJURY or DEATH:

- When the Internet Gateway is used with a garage door opener, the opener MUST ONLY be installed with sectional doors.
- Never allow children playing with the garage door, the remote control, wall-switches or any other accessories.
- Operate the garage door only when it is technically faultless and the door area is free of obstructions or people.
- This product allows operating the garage door without visual control.
- Therefore the door may execute unexpected travels. Never pass through a closing garage door.
- For residential use only. Only instructed people may use this product.
- Some parts of the car (doors, trunk lids) may extend into the travel path and cause serious damage to the garage door and/or the car.
- The serial number on the backside of this device is for your personal use only. Save this number from others.

1. Connect

Connect the provided ethernet cable (1) to router (2). Use the plug valid for your country (not all models). Connect power (3) to the internet gateway (4). When the internet gateway connects to the internet, the green light (5) will stop blinking and will light solid.

2. Create an account

Download the free myQ App from App Store or Google Play Store and create an account. If you already have an account, use your username and password.

3. Register the internet gateway

Enter the Serial Number located on the bottom of the internet gateway when prompted.

4. Add myQ devices

Use an internet enabled smartphone to add devices. Follow the instructions on the app.

Note: After you add a device, the blue light on the internet gateway will appear and stay on.

For smartphones/tablets free apps can be downloaded from iTunes Store or Google Play.

27 Special Features (optional)

A. Door within a door connection

To connect a door in door switch (8.2k Ohm), the ADP-1EVO adapter is required. The instructions in the adapter manual must be followed.

B. Flashing light connection

Description of feature:

The flashing light can be installed anywhere. Connect light leads to quick connect terminals 6 and 7.

C. Partial opening feature

Description of feature:

The pedestrian , ventilation or pet opening position is an adjustable second stop position between the fully opened and fully closed position of the garage door.

Activate:

NOTE: Any time programming requires pushing two buttons simultaneously, make sure this is executed accurately. If other buttons than described will flash, briefly cut operator from current and start programming from the beginning.

1. Move the door into to the desired partial opening position using the remote control or wallcontrol.
2. Choose a non programmed button on your remote control.
3. Push square button and UP button simultaneously for 3 seconds and wait for the operator light to flash. Then push the remote control button. To program an additional remote control start again with step1.

Deactivate:

1. Move the door to the fully closed position.
2. Push square button and UP button simultaneously for 3 seconds and wait for the operator light to flash.

D. Instructions for Auto-Close Feature

Description of feature: The Chamberlain Safety IR Sensors must be installed (required by EN60335-2-95).

Activate:

Push square and DOWN button simultaneously until the operator light blinks. 1 push UP button = 10 seconds. up to 180 sec. possible (18x) During countdown the down button flashes. To complete programming push square button.

Deactivate:

Push square and DOWN button simultaneously until the operator light blinks. To complete programming push square button.

Notes:

- The auto-close timer resets if the IR sensors are interrupted.
- In the partial open position automatic close is not possible.
- The garage door operator must have reached the programmed UP limit to activate the auto-close timer.

Troubleshooting:

Question: Operator will not work anymore without IR sensor.

Solution: Correct. IR sensors are mandatory once connected. A full logic board reset is required.

E. Operator speed modes:

Important Note! These modifications may only be carried out by a qualified technician/installer who has appropriate knowledge of the following standards: EN 13241, EN 12604, and EN 12453. They must have professional training and experience, as well as sufficient knowledge in the field of power-operated windows, doors, and gates.

Attention: One piece doors, Canopy garage doors and any other type of swing-out doors must be operated in slow speed (ModeA). The correct adjustment must be made for the corresponding weight of the door (s. Section 39). The corresponding procedure see below.



Mode A: Slow Speed Mode (Slow Open, Slow Close)

Simultaneously press the UP and DOWN buttons for 3 seconds. The UP and DOWN arrow indicators will illuminate. Release the UP and DOWN buttons. Within 3 seconds, press the center button to confirm (exiting the speed setting menu if not pressed within 3 seconds). The light will flash once (500ms duration), indicating Slow Speed Mode is enabled.

Mode B: Heavy Door Mode (Fast Open, Slow Close) Sectional doors only

DEFAULT MODE Simultaneously press the UP and DOWN buttons for 3 seconds. The UP and DOWN arrow indicators will illuminate. Release the UP and DOWN buttons. Within 3 seconds, press the center button to confirm (exiting the speed setting menu if not pressed within 3 seconds). The light will flash twice (500ms each), indicating Heavy Door Mode is enabled.

Mode C: Fast Mode (Fast Open, Fast Close) Standard Sectional Doors

Simultaneously press the UP and DOWN buttons for 3 seconds. The UP and DOWN arrow indicators will illuminate. Release the UP and DOWN buttons. Within 3 seconds, press the center button to confirm (exiting the speed setting menu if not pressed within 3 seconds). The light will flash three times (500ms each), indicating Fast Mode for Standard Door Applications (Standard Sectional Doors) is enabled.

F. OPEN, STOP or CLOSE programming of the remote control.

Description of feature:

Each remote control button can be programmed to either OPEN, STOP or CLOSE the door.

OPEN:

Push yellow round button and UP button simultaneously until the LED goes on. Now push a selected button on the remote control for OPEN only and wait for the operator light to flash.

STOP:

Push yellow round button and square button simultaneously until the LED goes on. Now push another selected button on the remote control for STOP only and wait for the operator light to flash.

CLOSE:

Push yellow round button and DOWN button simultaneously until the LED goes on. Now push a third button on the remote control for CLOSE only and wait for the operator light to flash.

G. Holiday Mode (requires 78EV wall control):

Portable remote controls do not function if this feature is activated.

H. Operator light control (requires 78EV wall control):

The operator light can be switched on and off at any time. Automatic lighting (only with light barrier and wall bracket) When the light barrier is interrupted, the lighting automatically switches on during the opening of the door. Activation: Press and hold the "LIGHT" button on the wall bracket for 10 seconds. Deactivation: see activation.

I. Keyless entry (requires 780EV wireless keypad):

Enter a 4 digit code of your choice to operate the door.

J. Temporary access (requires 780EV wireless keypad):

A temporary code can be programmed to allow limited access to the garage (by time or number of openings).

K. One button close feature (requires 780EV wireless keypad):

Without having the access code the door can be closed from any position (not opened).

L. MyQ (requires 828EV gateway):

Allows operating your garage door opener via internet or a compatible mobile phone.

M. Safety edge (only with ADP-1EVO).

Enables the garage door opener to be operated with a safety edge (8.2k Ohm). The taught-in operating force of the garage door opener is automatically increased.

Attention: only valid with approved safety edges.

N. myQ LED light.

The myQ LED light (827EV) can be programmed with the garage door opener for additional lighting.

O. Power supply for external devices (terminal 30V)

30VDC/max. 50mA

Note: For external (universal) receivers, the under 1 watt standby mode must be turned off.

P. Turning on/off the under 1 watt standby mode

The under 1W standby mode is always switched on at the factory. (After the lights go off and with the garage door closed.)

Switch off under 1 watt standby:

1. Disconnect device from the mains.
2. Press the UP and DOWN buttons on the back on the adjusting panel simultaneously and hold.
3. Connect the device again while the buttons are still pressed.
4. After about 5 seconds the opener's light flashes 10 times as confirmation.

Note: Every time the opener is disconnected from the mains, the opener's light flashes 10 times during reconnection to indicate that the under 1 watt standby mode is off.

Switch on under 1 watt standby: See activation

Q. Cycle counter

This garage door opener features a cycle counter (open/close = 1 cycle).

1. Pull plug.
2. Simultaneously press and hold round and square button on the backside of the opener.
3. While holding the buttons insert plug.
4. After approx. 5 sec the LED indicates the number of cycles (for every 1000 cycles the LED flashes once). Release buttons.

28 Operation of the door opener

Automatic opening / closing of the door:

The door opener can be operated using the following devices:

- Remote control: Press the button until the door starts to move.
- Wall switch (if this accessory is installed): Press the pushbutton until the door starts to move.

Manual opening of the door (by hand):

 If possible, the door must be closed completely. Weak or defective springs can cause a rapid shutting down of the open door, **which can lead to property damage or serious personal injury.**

RELEASE: Briefly pull the red handle down. Then open the door by hand. **Open close door without pulling the cable!**

RECONNECT: The lockout feature prevents the trolley from reconnecting automatically. Push the green button on the trolley. With the next door movement will reconnect.

Function sequence:

When operating the door opener by radio control or wall switch:

- closes the door when it is fully open
- opens the door when it is fully closed
- stops the door if it is opening or closing
- the door moves in the opposite direction to the last completed move, if it is partially open
- drives back the door to the open door position, if it hits an obstruction while closing
- stops the door, if it encounters an obstacle during opening
- Photocells (optional): By means of the photocells, a closing door is lifted up or an open door is obstructed while closing, if a person located in the door area interrupts the beam
- THE MULTI-FUNCTION DOOR CONTROL (optional)

Press the push bar (1) to open or close the door. Press again to stop the door. Light feature Press the Light button (2) to turn the opener light on or off. It will not control the opener light when the door is in motion. If you turn it on and then activate the opener, the light will remain on for 2-1/2 minutes. Press again to turn it off sooner.

The operator light switches on in the following cases:

1. First turning on of the door opener (short)
2. Power interruption (short)
3. With each turning on of the door opener.

The light turns off automatically after 2 1/2 minutes.

29 Attach warning labels (see fig. 28)

30 Cleaning and maintenance



Before any maintenance, cleaning and related maintenance work, the mains supply plug should be pulled out.
Danger from electric shock!

Maintenance of the door opener

A proper installation ensures the optimum performance of the door opener with minimum maintenance. An additional lubrication is not required. Gross dirt accumulation in the guide rail may impair the function and must be removed.

31 Cleaning

Clean the drive head, wall switch and remote control with a soft, dry cloth. Do not use liquids.

32 Maintenance



Check the system often, especially cables, springs and fasteners, for signs of wear, damage or lack of balance. Do not use if repair or adjustment work must be performed, because an error in the system or an incorrectly balanced door may cause injury. Repairs to electrical equipment and gates may be carried out only by an authorized specialist / expert. In any case, please do not ever carry out repairs yourselves because this could result in serious injury or death.

Once a month:

- Check automatic safety reverse again and reset if necessary.
- Operate door manually. If the door is unbalanced or stuck, please contact the service centre.
- Check for complete opening and closing of the door. Where appropriate, readjust limit switches and / or power.

Twice a year:

- Check the belt tension. For this, first disconnect the carriage from the drive. If necessary, adjust belt tension.

Once a year (at the door):

- Refer to the maintenance instructions on the door and follow the door manufacturer's instructions. Additional lubrication of the door opener is not required.

Limit switch adjustment and force regulation:

These settings must be checked and undertaken properly during the installation of the opener. Due to weathering, minor changes can occur during operation of the opener that need to be addressed by a new setting. This can particularly happen in the first year of operation.

Follow the instructions for setting travel limits and force (refer to section 23 and 33) carefully and re-check the automatic safety reverse after each resetting.

33 Replace batteries of the remote control

Battery of the remote control:

The batteries in the remote have an extremely long life. If the transmission range decreases, the batteries must be replaced. Batteries are not covered by the guarantee.

Please observe the following instructions for battery:

Batteries should not be treated as household waste. All consumers are required by law to dispose of batteries properly at the designated collection points. Never recharge batteries that are not meant to be recharged.

Danger of explosion!

Keep batteries away from children, do not short-circuit them or take them apart. See a doctor immediately, if a battery is swallowed. If necessary, clean contacts on battery and devices before loading. Remove exhausted batteries from the device immediately!

Increased risk of leakage!

Never expose batteries to excessive heat such as sunshine, fire or the like! There is increased risk of leakage!

Never expose batteries to excessive heat such as sunshine, fire or the like! There is increased risk of leakage!

Avoid contact with skin, eyes and mucous membranes. Rinse the parts affected by battery acid with plenty of cold water and consult a doctor immediately. Use only batteries of the same type.

Remove the batteries if the device is not being used for a long time.

Replacing battery:

To replace battery, turn remote control around and open the case with a screwdriver. Lift cover and lift control board below. Slide battery to one side and remove. Watch polarity of battery!

Assemble again from in reverse direction.

ATTENTION!

Danger of explosion if battery is replaced improperly.

Replacement only by identical or equivalent type (CR2032).

34 Operator light

The LED lighting has a very long life and is maintenance free.

The lens cover cannot be removed.

35 Disposal

 Our electrical and electronic equipment may not be disposed of with household waste and must be disposed of after use properly in accordance with WEEE Directive EU: 2012/19/EU; GB UK(NI): SI 2012 nr. 19 on waste electrical and electronic equipment in order to ensure that materials are recycled. Collecting waste electrical equipment separately means environmentally-friendly disposal and is completely free of charge for the consumer. WEEE reg. no. in Germany: DE66256568.

Any waste packaging left over with the end consumer must be collected separately from mixed waste, in accordance with the Directive. Packaging may not be disposed of with household waste, organic waste or in nature. Packaging material must be separated according to its material and disposed of in the recycling containers provided and in certain council recycling bins.

 Our batteries are marketed in compliance with the law. The 'crossed-out waste bin' indicates that batteries may not be disposed of with household waste. Batteries included in the product (technical data). In order to avoid causing harm to the environment or people's health, used batteries must be returned for regulated disposal at council recycling centres or via retail outlets, as is prescribed by law. Batteries may only be brought for disposal once fully discharged and, in the case of lithium batteries, with their terminals taped over. The batteries can be easily removed from our equipment for disposal.

Registration number in Germany: 21002670.

36 Frequently asked questions

1. Door opener doesn't work with remote control:

- Is the opener connected to the power supply? If a lamp connected to the power socket does not turn on, check fuse or circuit breaker. (Some sockets are enabled via a wall switch).
- Are all door locks disabled? See safety instructions!
- Check if remote control battery is lit.
- If you have two or more remote controls, of which only one works, check programming of the receiver.
- Is there snow / ice under the door? If yes, the door may be frozen onto the ground. Remove all obstacles.
- Perhaps the door spring is defective. This must be replaced by a specialist.

2. Transmission range of the device is too low:

- Is a battery inserted? Put in a new battery.
- Try radio control in the car at another location.
- The transmission range diminishes for metal doors, aluminium or metal panels.

3. Door reverses for no apparent reason:

- Is the door blocked by anything? Pull manual release and operate door by hand. In case of unbalanced or stuck gate, please contact the service department.
- Re-program operating force.
- Clear ice or snow in the closing area of the door.
- If the door reverses upon reaching the door position 'Closed', the limit switch must be set for this door position. ***After completing every setting, the automatic safety reverse must be checked again:***
- An occasional resetting of the end positions is not unusual. In particular, the weathering can shift the doorway.

4. The garage door opens and closes by itself:

- Delete all remote controls and then re-programme them. See section 25.
- Is the remote control button jammed in position „ON“?
- Use only original remote controls! The use of third-party products leads to disturbances.
- The remote control button was pressed accidentally (pocket).
- Cable of the wall switch is damaged (remove for testing purposes).
- An accessory connected to the opener causes the drive (remove for testing purposes).

5. Door does not close completely:

- Re-programme stretch of way of the opener. Check for alterations in the mechanical components, e.g. door arms and fittings.

After each new setting of the door position 'Closed', the automatic safety reverse should be checked for function.

6. The door opens, but does not close:

- If installed, the photocells should be checked. If the LED at the photocells blink, the alignment should be checked.
- Check remote control or wall switch for function.

7. Operator light doesn't turn on:

- Open or close door. The light remains switched on for 2.5 minutes.
- Disconnect opener from the mains and connect again. The light comes on for a few seconds.
- No power.

8. Operator light doesn't turn off:

- Disconnect the power from the mains supply for a short time and try again.
- The 2.5 minutes are not yet over.

9. Motor hums and runs very briefly, but does not function:

- Garage door springs are defective. Close the door and disconnect from the opener by pulling on the handle of the carriage (manual release). Open and close door manually. If the door is properly balanced, it is held at each point of the doorway by the door springs alone. If this is not the case, contact your service centre.
- If this problem appears during the first use, the door may be locked. Deactivate door lock.
- Release opener from the door and try without door. If the door is fine, re-programme operating force and stretch of way.

10. Opener works only in one direction:

- Door springs may be defective or the door is stiff in one direction.
- If the door is fine, re-programme operating power and stretch of way of the opener.

11. The belt rattles on the rail:

- Adjust the belt tension. The cause is usually a very tight chain/belt. The spring on the clamping device of the rail must not be compressed completely.
- The door runs unevenly and makes the drive vibrate. Improve door run.

12. Opener will not start due to power failure:

- Disconnect from the opener by pulling on the handle on the carriage (manual release). The door can now be manually opened and closed. If the opener is re-activated, the carriage also gets re-connected.
- If installed, the carriage is detached from the drive in case of power failure by an external emergency release from outside the garage.

13. Door reverses after the force was programmed:

- See if the rail bends. The opener requires a lot of power to move the door. Repair or install door correctly.
- Door is very heavy or in poor condition. Call a specialist.

14. Rail bends on the opener:

- Door is heavy, very heavy, stiff or in poor condition. Call a specialist.
- A swing of the rail while moving is a sign of an unevenly functioning door with constantly changing power requirements. Call specialist, possibly lubricate door. An additional suspension on the rail can be a remedy.

15. The opener „runs“ (audible turning of motor) but the carriage does not move:

- The carriage is released from the opener.
- In a new installation: During the assembly of motor and rail, the pre-assembled adapter sleeve between the motor shaft and the rail was not installed. This sleeve is pre-assembled at factory, but can be removed. Standing behind the opener it can be observed whether the gearwheel turns in the rail or just the motor.
- In a new installation: The belt has come off from the gearwheel in the rail. Standing behind the opener, you can see the gearwheel.
- After years of use: Is the release defective or continuously disengaged?
- After years of use: The sleeve between rail and motor or the motor control gear is defective.

16. The door releases by itself from the carriage and stops:

- An external release that has been installed during a power failure should be checked whether it stretches and releases during the opening of the door. Watch the mechanism and reset if necessary.
- The handle of the release mechanism should not get caught in other items.

17. Re-learning the forces

- The force setting button is located behind the cover at the operators backside. The force setting regulates the amount of power required to open and close the door.
 1. Open cover on the backside of the opener. Locate the yellow round button (2).
 2. Push the yellow round button (2) twice to enter unit into Force Adjustment Mode. The LED (3) (indicator light) and the UP button will flash. Push UP button. The operator will travel to the UP position learning the required amount of force. Once the UP limit is reached the LED and the DOWN button a start to flash. Push DOWN button. The operator will travel to the DOWN position learning the required amount of force.

37 Diagnostic Chart

Your garage door opener is programmed with self-diagnostic capabilities.

The UP and DOWN arrows on the garage opener flash the diagnostic codes.

DIAGNOSTIC CODE		SYMPTOM	SOLUTION
Up Arrow Flash(es)	Down Arrow Flash(es)		
1	1	The garage door opener will not close and the light bulbs flash.	Photocells are not installed, connected or wires may be cut. Inspect photocells wires for a disconnected or cut wire.
1	2	The garage door opener will not close and the light bulbs flash.	There is a short or reversed wire for the photocells. Inspect photocells wire at all staple points and connection points and replace wire or correct as needed.
1	3	The door control will not function.	The wires for the door control are shorted or the door control is faulty. Inspect photocells wire at all staple points and connection points and replace wire or correct as needed.
1	4	The garage door opener will not close and the light.	Photocells are misaligned or were momentarily obstructed. Realign both sensors to ensure both LEDs are steady and not flickering. Make sure nothing is hanging or mounted on the door that would interrupt the sensors path while closing.
1	5	Door moves 6-8" stops or reverses.	Manually open and close the door. Check for binding or obstructions, such as a broken spring or door lock, correct as needed. Check wiring connections at travel module and at the logic board. Replace travel module if necessary.
1	5	No movement, only a single click	Manually open and close the door. Check for binding or obstructions, such as a broken spring or door lock, correct as needed. Replace logic board if necessary.
1	5	Opener hums for 1-2 seconds no movement.	Manually open and close the door. Check for binding or obstructions, such as a broken spring or door lock, correct as needed. Replace motor if necessary.
1	6	Door coast after it has come to a complete stop	Program travel to coasting position or have door balanced by a trained technician.
2	1-5	No movement or sound.	Replace logic board.
4	1-4	Door is moving stops and or reverses.	Manually open and close the door. Check for binding or obstructions, such as a broken spring or door lock, correct as needed. If the door is binding or sticking contact a trained door systems technician. If door is not binding or sticking attempt to reprogram travel (refer to page 24).
5	1	Terminal 1+2 for wall control is shortened longer than 4 seconds.	Check wiring for push button if button is stuck and activated permanently. Remove wiring from terminal 1+2 on operator as test. Do not run push button wires next to high voltage wiring or in same conduit.

38 Optional Accessories

Always use original accessories.

External products can cause malfunctions.

1.	041ATX4EVF	4-channel remote control
2.	TX4UNIF-02	4-channel universal remote control
3.	128EV-01	Wireless Wall Control 2-Channel
4.	780EV	Wireless Keypad
5.	828EV	myQ Internet Gateway
6.	EQL01EV	Quick release for door handle
7.	1702EV-01	Quick release
8.	75EV	Wired illuminated push button
9.	FLA-1LED	Flashing light
10.	827EV	myQ LED Light
11.	771EVK	Photocells-Set with brackets and cable
12.	100041	Key switch (surface mount)
13.	041A4060	Car Kit Clip Adapter-Set
14.	860EV	3-Channel Universal Receiver
15.	ADP-1EVO	External Adapter
16.	8200	Door-in-Door switch

39 Door dimensions and weight

Sectional doors	TT60EVFA-GB
max. width (mm)	4100
max. height (mm)	2560
max. weight (kg) in all speed modes (A, B, C)	100
max. weight (kg) in slow speed modes A and B	125

Note: The default speed is set to fast open and slow close speed, Speed Mode B. Please note that the correct adjustment can be made for the corresponding weight of the sectional door. The corresponding procedure is described in Section 27 E.

One piece doors	TT60EVFA-GB
max. width (mm)	3250
max. height (mm)	2260
max. weight (kg)	76,65

Note: The default speed is set to fast open and slow close speed, Speed Mode B. For safety reasons the One piece doors, Canopy garage doors and any other type of swing-out doors must be operated with slow speed, Speed Mode A. For more details consult Section 27 E.

40 Service parts / Warranty

Your statutory rights are not affected by manufacturer's warranty. Please refer to your dealer for terms of warranty.

41 Storage & Disassembly

The drive must be stored as follows:

- in closed and dry and closed rooms, protected from moisture
- Storage temperature from -25 °C to +65 °C
- Secured against falling over and allow unhindered passage

When decommissioning or dismantling, the drive and its accessories must be disconnected from any power supply.

1. Pull the main plug out of the socket and then check that there is no voltage.
2. Disassembly is in reverse order to assembly.

42 Declaration of conformity

The manual consists of these operating instructions and the declaration of conformity.

The radio equipment type (TX4EVF) is in compliance with Directive 2014/53/EU and for UK with Radio Equipment Regulation SI 2017 No. 1209. The full text of the EU declaration of conformity is available at the following internet address: <https://doc.chamberlain.de/>

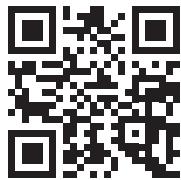
43 Specifications

Model	TT60EVFA-GB
Input Voltage	220-240 VAC, 50/60 Hz
Max. Pull Force	600 N
Cycles / day	20
Cycles / hour	6
Standby Power (door fully closed)	0.8 W
Motor type	DC gearmotor permanent lubrication
Noise level	54dB
Drive Mechanism	Belt
Length of Travel	2520 mm (8023CR5)
Opening speed, up to	160 mm/s
Max. door dimensions, height / width	2.56 / 4.10 m
Lamp	On when door starts, off 2-1/2 minutes after stop.
Door Linkage	Adjustable door arm. Pull cord trolley release
Safety, Personal	Push button and automatic stop in down direction. Push button and automatic stop in up direction.
Electronic	Automatic force adjustment
Electrical	Transformer overload protector and low voltage push button wiring.
Limit Device	Mechanical RPM / Passpoint detector
Limit Adjustment	Electronic
Soft-Start / Soft-Stop	all modells
Length (Overall with rail)	3183 mm (8023CR5)
Headroom Required	min. 35 mm
Hanging Weight	~ 11 kg
Memory Registers	180
Operating Frequency	RX (433.30MHz, 433.92MHz, 434.54MHz) RX (868.30MHz, 868.95MHz, 869.85MHz) TX (865,125 MHz, 865,829 MHz, 866,587 MHz) < 10 mW
Transmitter Model TX4EVF/ 128EV	
Transmitter Frequency	TX4EVF: (868.30MHz, 868.95MHz, 869.85MHz)/ 128EV: (433.30MHz, 433.92MHz, 434.54MHz)
Transmitter Sending Power	<10 mW
Transmitter Battery	3V CR2032

44 Intended area use

The drive must not be used in potentially explosive areas, in extremely salty air or in an aggressive atmosphere. The door must not be part of a fire protection system, an escape route or an emergency exit that automatically closes the gate in the event of a fire. Local building regulations must be observed.

In the event of damage caused by other and non-intended use, the manufacturer's warranty expires due to use with defective parts, unauthorized changes to the drive, modifications to the drive and its components.



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