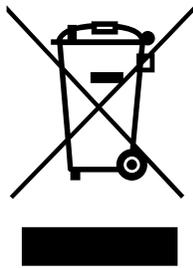


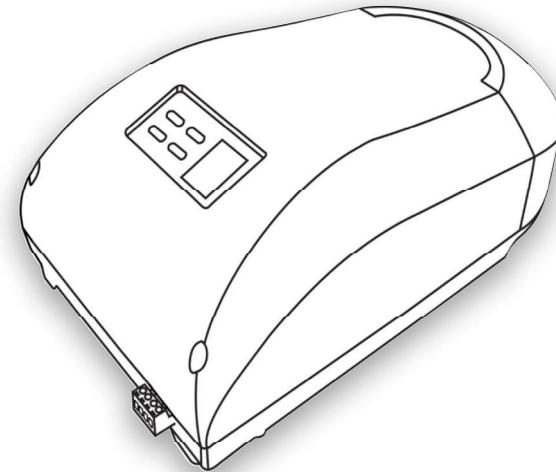
RDS 600
RDS 800
RDS 1200

**GARAGE DOOR OPENER
INSTALLATION & OWNERS MANUAL**



ENVIRONMENT FRIENDLY DISPOSAL

You can help protect the environment!
Please remember to respect the local regulations :hand in the non-working
electrical equipments to an appropriate waste disposal center.



WARNING: IT IS VITAL FOR THE SAFETY OF ALL PERSONS INSTALLING AND
USING THIS OPENER TO FOLLOW THE INSTALLATION INSTRUCTIONS AND
SAFETY WARNINGS. FAILURE TO COMPLY MAY RESULT IN SERIOUS
PERSONAL INJURY AND/OR PROPERTY DAMAGE AND FAILURE OF THE
OPENER SYSTEM.

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1. Functions

Micro Intellectual Control:

One button to control open, stop and close .The light is on while opening or closing the door ,three minutes later the light is off automatically. The unit running is controlled by computer program. Test the force of open or close the door, the optional functions are photo beam, auto-close, lock door, etc. The door pauses momentarily then rebounds when it reaches the hinders on the closing way. The protecting functions are overload, over hot or low power input,etc.

DC Motor:

Low noise, soft start, slow stopping to protect the unit and make sure it can be used for a long time.

LED Display:

Working situation can be shown on the LED screen.

Decoding:

Rolling code.

Manual Disengagement:

Open and close the door by hand without electricity.

Optional Functions:

Photo beam, battery backup and wall button .



WARNING

**Do not operate this opener unless you are trained and authorized.
If you have questions, please call professionals.**

1.1 Safety Instructions For Installation



Risk of deadly electric shock from mains voltage

- Make sure that the on-site electrical installation conforms to the respective, applicable protective regulations(230V AC ± 10% 50Hz).
- Before performing work on the system , disconnect the mains plug and the plug of the emergency battery.
- Safeguard the system against being switched on again without authorisation.



Testing the door system

- For your own safety, of the door and, if required, maintenance and repair work!
 - Never try to replace, adjust, repair or reposition the compensating springs for the counterbalance of the door or the spring mountings yourself.
- A malfunction in the door system or incorrectly aligned doors can cause serious injuries!
- Do not use the door system if repair or adjustment work must be conducted!
 - The operator is not designed for the operation of sluggish doors. These doors are either difficult or impossible to open or close manually.



Attention

Malfunctions in the connection cables Connection cables and supply cables laid together can result in malfunctions.

- Duct the operator's connection cables (24 V DC).
- In an installation system that is separate from the supply lines(230V AC ± 10%).

External voltage at the connecting terminals

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

- Do not apply any mains voltage(230V AC ± 10%).to the connecting terminals of the control.



Warning

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

- Follow all the instructions provided in this manual.
- Incorrectly fitted control devices (e.g. buttons) may trigger unwanted door travel. Persons or objects may be jammed as a result.
- Install control devices at a height of at least 1.5m(out of the reach of children). Fit permanently installed control devices (such as buttons, etc.) within sight of the door, but away from moving parts.



Danger of injury during door travel

Persons may be injured by door travel if the hand transmitter is actuated.

- can only be used by people who have been instructed on how the remote-control door system functions!
- If the door has only one safety feature, only operate the hand transmitter if you are within sight of the door!
- Only drive or pass through remote-control door systems when the door is at a standstill !
- Please note that an unwanted door run may occur if a hand transmitter button is accidentally pressed (e.g. if stored in a pocket/handbag).

Danger of injuries due to unintended door run An unintended door run may occur while teaching in the radio system.

- Make sure no persons or objects are in the door's area of travel when teaching in the radio system.

Danger of burns from the hand transmitter Direct sunlight or great heat can heat up the hand transmitter. As a result, burns could occur during use.

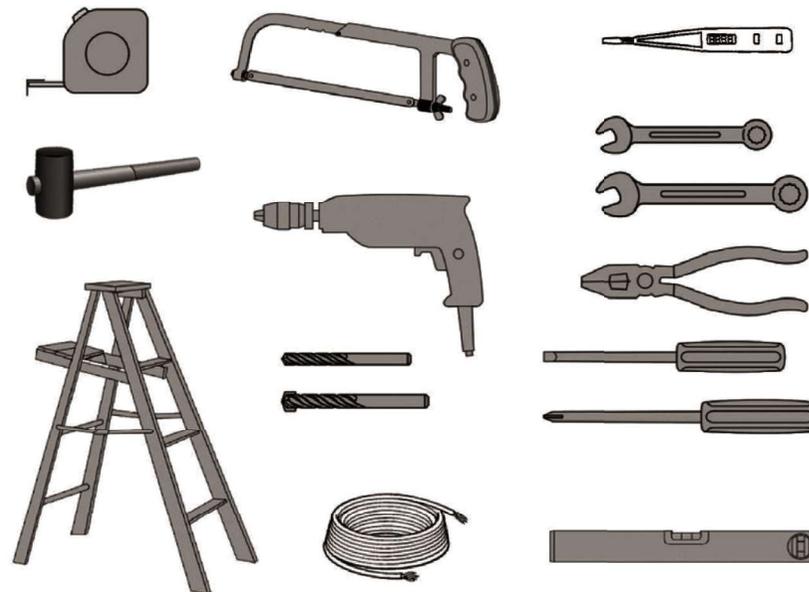
- Protect the hand transmitter from direct sunlight and great heat (e.g. by placing it in a stowage compartment in the dashboard).
- Danger of injury during door travel Persons may be injured by door travel if the hand transmitter is actuated.
- Make sure that hand transmitters are kept away from children and can only be used by people who have been instructed on how the remote-control door system functions!
- If the door has only one safety feature, only operate the hand transmitter if you are within sight of the door!

2. Technical Specifications

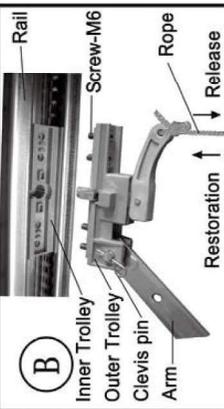
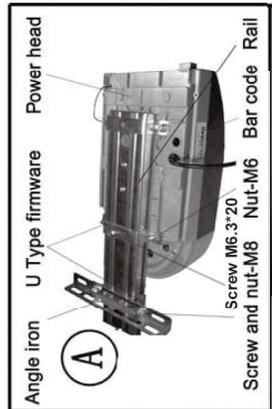
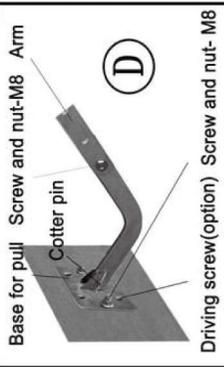
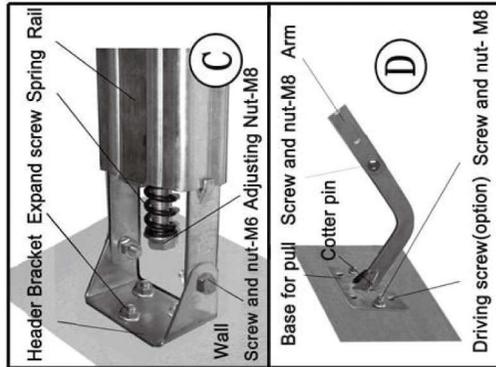
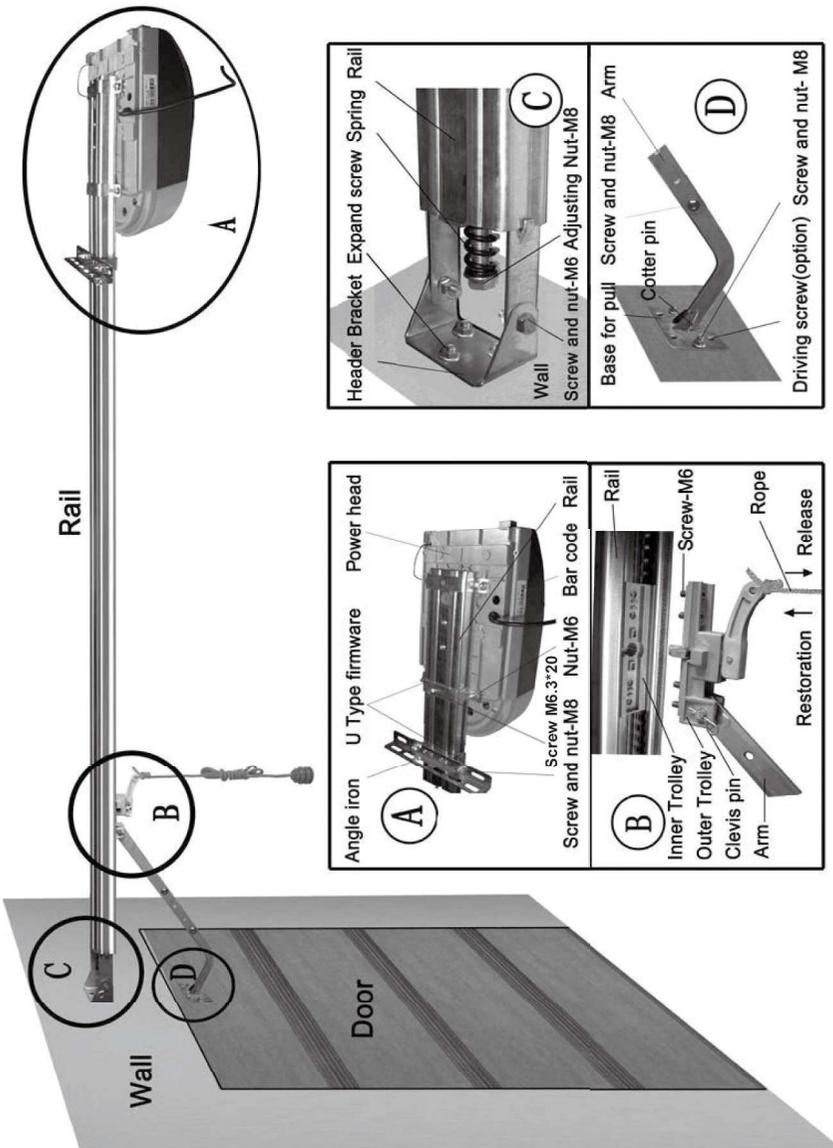
Power Input	230V AC ± 10% 50Hz	Reception frequency	433.92MHz
Motor	24V DC	Decoding	Rolling Code
Working Temperature	>-20°C-50°C	Transmitter power	27A 12V Battery
Relative Humidity	≤90%	Globe	LED
Open and close force	600 N 800 N 1200 N	Courtesy light time	3 minutes

3. Installation

3.1 Recommended Tools



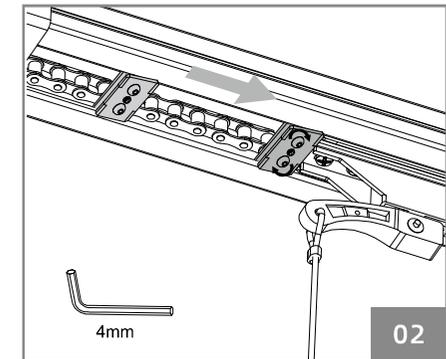
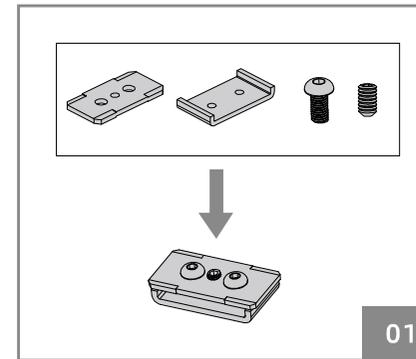
3.2 Installing The Operator And Rail

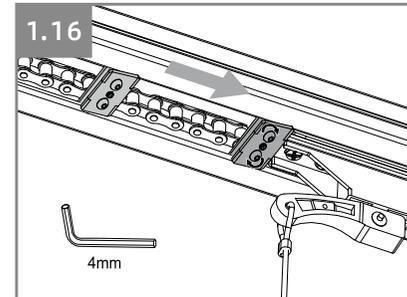
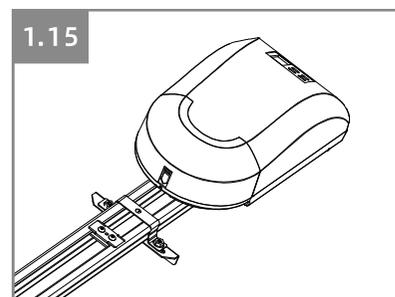
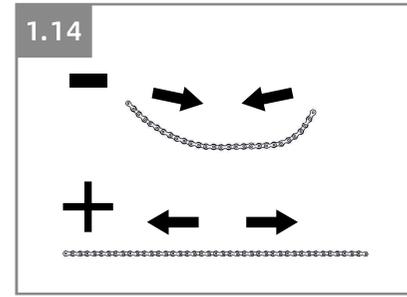
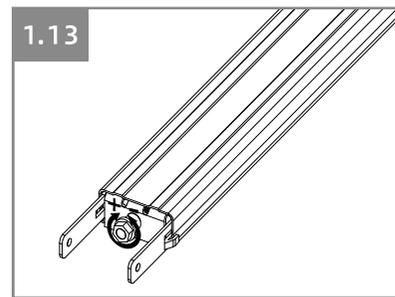
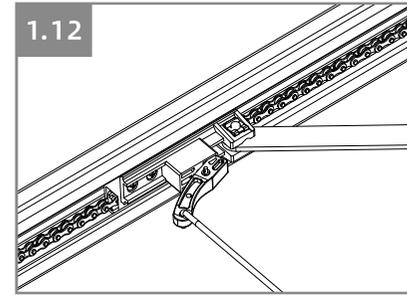
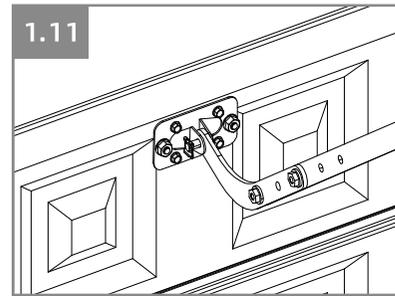
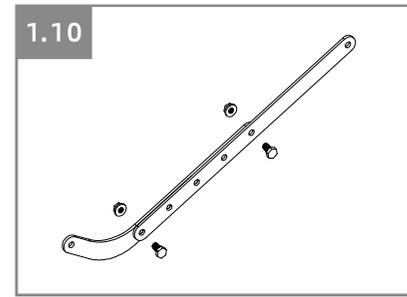
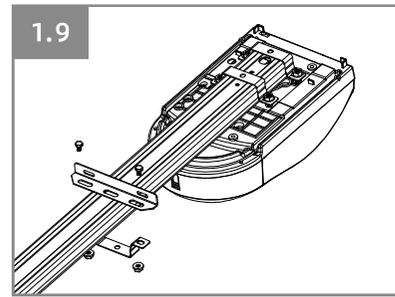
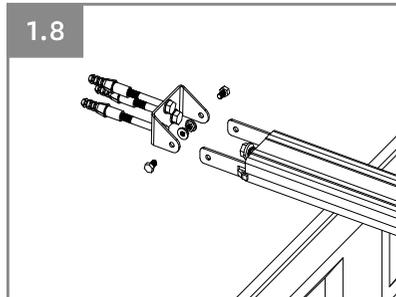
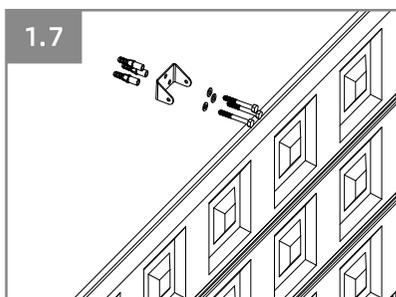
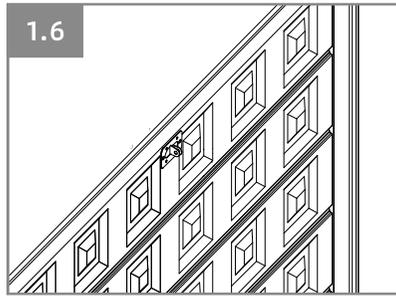
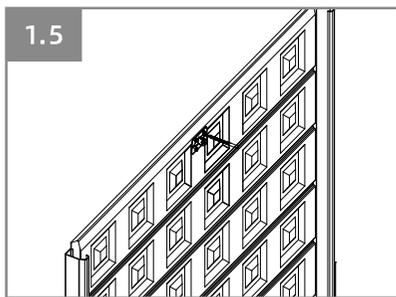
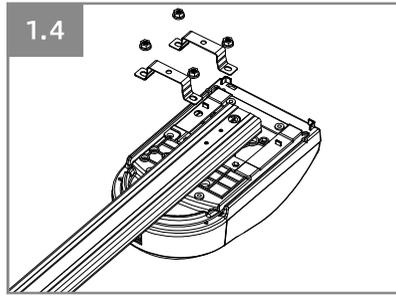
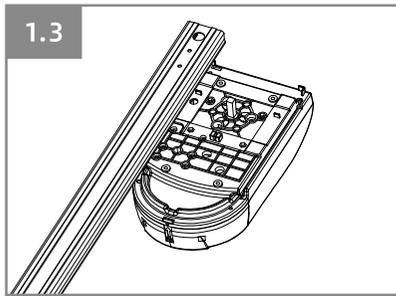
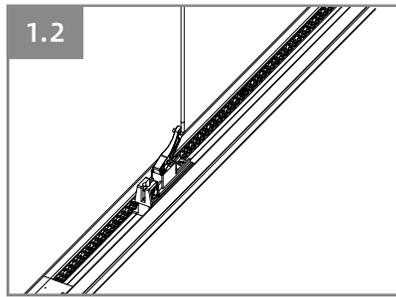
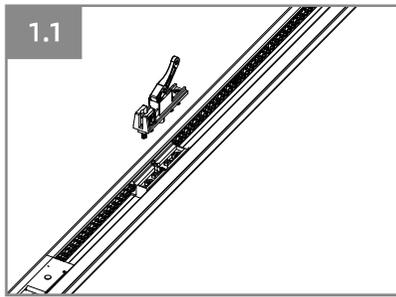


* SUPER IMPORTANT INSTRUCTION

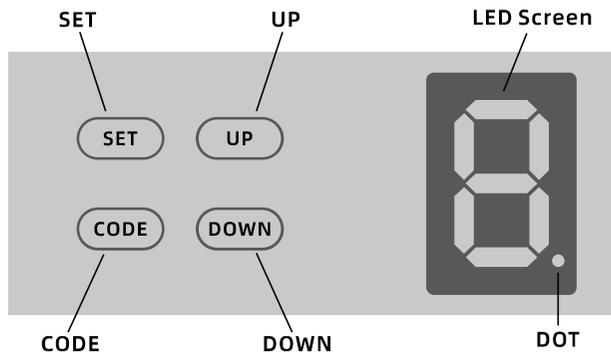
To avoid the original limits loosing ,this mechanical limit stopper must be installed to ensure the trolley be able to hit it in every fully opening ; It must be tightly mounted and not allowed to move when trolley crash Please refer to below installation steps:

1. Prepare the mechanical limit stopper ,check how it will be assembled ;
2. Make the limits setting (UP & DOWN),when door is in fully opening position, put the mechanical limit stopper into the rail close the trolley(must make sure it touches the trolley);
3. Tighten the screw M6 * 10 first, Then tighten 2 screws M6 * 14.make sure mechanical stopper clamp the rail and not able to move when trolley crash.





4. Control Panel And Transmitter



Control Panel



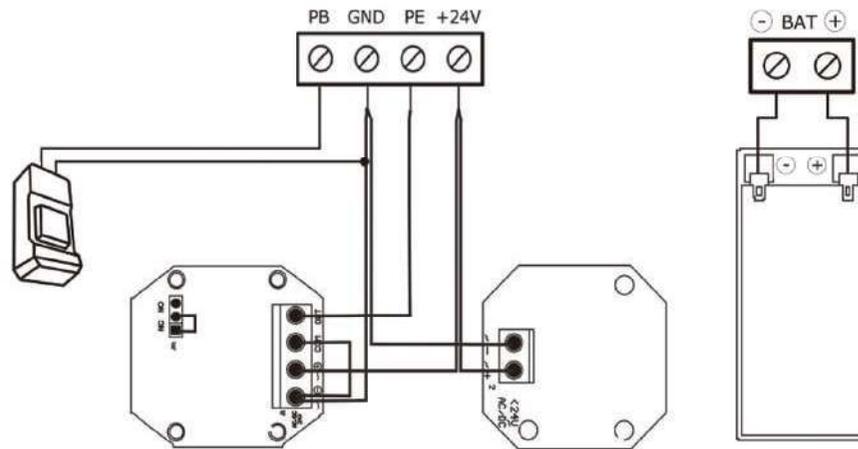
Transmitter



 Button battery inside this product.

If swallowed, a button battery can become stuck in a child's throat and result in catastrophic injuries and even death. Insertion of button batteries into body orifices such as ears and noses can also lead to significant injuries. Keep new and used button batteries out of sight and out of reach of children at all times.

5. Optional Terminals And Connections



To install accessories such as photo beam, battery backup, or electronic locks, you must first set the "5" menu to d0 to exit low power mode before they can be used.

6. Programming

6.1 Menu Functions

The control board has a main menu which allows access to all the different settings of the automatism.

12	Setting Open And Close Positions
3	Force Adjustments
4	Auto-lock Function



Start all the programs from the stand-by mode (⏻)!

7. Programming The Operator

7.1 Preparing

1	Keep trolley locked, Pull and push the door by hand, make sure the trolley connects with the shuttle.	
2	Turn on the power, the courtesy light is on for several seconds, at the same time, the LED displays the number from 9 to 1. Then the operator turns to standby mode.	
3	At last, it displays "11" or "-".	

7.2 Setting Open And Close Positions

1	Press and hold button "SET" until display shows "1".	
2	Press and hold button "UP".	
3	When the door has reached the open position ,press SET It displays "2".	
4	Then press and hold DOWN , it flashes "u". When the door has reached the closed position , press SET.	
5	The door opened and closed automacitally to map the open and close sensitivity force requirements.	
6	It displays "11" to show setting is complete.	

7.3 Self Learning Transmitter

1	When the unit has stored 20 codes, it flashes "F", or preventing coding mistakes, it is necessary to cancel all the stored codes.	
2	Press and hold "CODE" , it displays ".".	
3	Hold more than 8 seconds, it flashes "C" , all the codes were cancelled.	

7.4 Adding Or Changing Transmitters

1	Press "CODE" , it displays ".".	
2	Press a button on the transmitter, then release and press the same button again, "." flashes.	
3	Then it displays "11" to show setting is complete .repeat UP steps to code a maximum of 20 different transmitters'and/or buttons.	

7.5 Photo Beam

1	Press and hold the DOWN button until "-" appears, then release to enter the infrared function settings.	
2	It will display "H" or "11" , which can be adjusted. press UP once it displays " H" , the photo beam is enabled . press DOWN once, it displays "11" ,the photo beam is disabled. press SET to confirm and quit.	
3	 If you do not use photo beam device, please make sure it displays "11" ,to close this function.	

7.6 Auto-Close ON/OFF

1	Press "UP" until it display "-".	
2	Loosen "UP" ,display will show number between 0-9,press UP or DOWN to adjust auto-close time.	
3	When display shows "1" means the auto-close time is 1 minute , when display shows "9" means the auto-close time is 9 minutes , when display shows "0" means the function of auto-close is invalid . press SET to confirm and quit.	
4	 The default setting is "0" , "0" shows auto-close off. This function works when the door reaches the open position.	

7.7 Force Adjustments

1	Press and hold the SET button until "3" is displayed, then release to enter the Closing Force Setting.	3
2	The adjustable range will be shown as "0-9". Press UP to increase the force one degree or press DOWN to decrease one degree. Maximum degree is "9", minimum is "1".	19
3	Press SET to confirm. The default setting is "5".	5
4	 After finishing all the setting, please check the force to make safe.	

7.8 Auto-lock Function

1	Press and hold the SET button until "4" is displayed, then release to enter the Lock Function Setting.	4
2	The adjustable range will be shown as "0-1". Press UP, it displays "1", lock door function works or press DOWN, it displays "0", lock door function doesn't work. Press SET to confirm the function you need.	10
3	 When you use uncovered transmitters, it is recommended using lock door function. This function works when the door reaches the closed position, the door will not be able to open until press button of "Unlock".	

8. Owners' Guide

8.1 Attention In Use

1		At the first time of using the door, please test the driving system to see if it moves well. (Test method: unlock the trolley, pull and push the door by hand.)
2		Connected with the appropriate power and socket by professionals, and connected the earthing wire with earth.
3		Using the transmitters in your sight. Do not stand or walk under a moving door. The transmitters should be out of reaching of children.
4		Make sure the door out off fire, moisture, electromagnetism and some other places.
5		Check at least twice a year to make sure the door is properly balanced and that all working parts are in good working condition. Adjust the tensile force of chain. Add suitable amount of lubricant to the active.

8.2 Examination Guide

1	Problem	Causes	Solution
2	The chain is noisy.	The chain is too loose.	Adjust nut-M8 referring to 3.2.C.
3	The motor does not work.	The socket is not well connect or the fuse is broken.	Check the socket or replace the fuse.
4	After setting open and close positions, the motor does not work.	The screws of fixing the Hall components are loose or program mistakes.	Tighten the screws or resetting open and close positions.
5	The door can't be closed.	Photo beam function works.	Cancel the photo beam function, referring to 7.5.
6	The wall button works well, but the transmitter doesn't work.	No transmitter learning or transmitter battery is power off.	Code referring to 7.4 or change new transmitter battery.
7	Transmitter distance is too short.	The transmitter battery is nearly power off.	Change new battery.

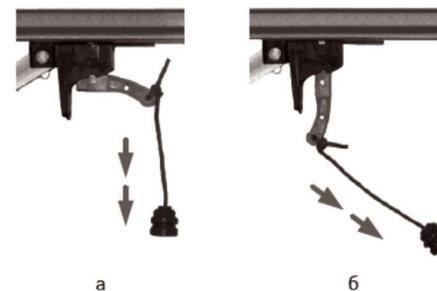
9. Troubleshooting

9.1 Control Board Error Map

Error	Error Description	Cause	Solving The Problem
ENCODER ERROR H	• The control board does not receive information encoder installed on the motor.	<ul style="list-style-type: none"> • Encoder's plug. • Motor does not work and the encoder does not scan. • Encoder does not work/is off. • Digit control board does not send signal to the base control board. • Base control board does not send power to motor. 	<ul style="list-style-type: none"> • Make sure the plug is fully inserted. • Test battery to see if the motor is running. • Test with another encoder. • Test with another control board. • Test with another power board.
MEMORY FULL F	• It is unable to program a new remote controls.	<ul style="list-style-type: none"> • The memory is full (20 remote controls). 	<ul style="list-style-type: none"> • You can choose to clear the existing transmitter and add it again. • If you have 20 programmed commands and want to add more, install an external receiver.
SETTING ERROR L	<ul style="list-style-type: none"> • Incorrect setting of upper and lower limits. • Incorrect insertion of motor connection wires. 		<ul style="list-style-type: none"> • Adjust the upper and lower limits. • Replace the motor cable.
EXCESSIVE LOADING E	• Excessive loading in the motor due to gate's excessive weight.		• Redo the course programming without putting too much effort against the stoppers.
PHOTOCELLS NOT CONNECTED WITH MOTOR r	• The photocells are active but not connected to the motor.		• Connect the photocells to the motor.
PCB ANOMALY O	• Run timeout.		• Adjust the upper and lower limits.
PCB ANOMALY P	• Abnormal power detection		• check whether the input voltage is normal or replace the circuit board.



Errors appear on the display for 5 seconds!



Pic.3. Manual unblocking of the carriage

In the process of unblocking there can be uncontrolled movement of doors:



- if the door spring are loose or broken;
- if the doors are not balanced;
- if the doors are opened manually the carriage can collide with the drive (during build-ing works limit the doors run in the opening direction);
- in the unblocked position doors can be moved only with medium speed!

- the appliance is not to be used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.
- children being supervised not to play with the appliance.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

WARNING: Important safety instructions. It is important for the safety of persons to follow all instructions. Save these instructions.

- do not allow children to play with door controls. Keep remote controls away from children;
- watch the moving door and keep people away until the door is completely opened or closed;
- caution when operating the manual release since an open door may fall rapidly due to weak or broken springs, or being out of balance;
- frequently examine the installation, in particular check cables, springs and mountings for signs of wear, damage or imbalance, Do not use if repair or adjustment is needed since a fault in the installation or an incorrectly balanced door may cause injury;

- each month check that the drive reverses when the door contacts a 50 mm high object placed on the floor. Adjust if necessary and recheck since an incorrect adjustment may present a hazard (for drives incorporating an entrapment protection system depending on contact with the bottom edge of the door) ;
- details on how to use the manual release;
- information concerning the adjustment of the door and drive

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

- before installing the drive, remove all unnecessary ropes or chains and disable any equipment, such as locks, not needed for powered operation;
- before installing the drive, check that the door is in good mechanical condition, correctly balanced and opens and closes properly;
- install the actuating member for the manual release at a height less than 1.8m;
- permanently fix the labels warning against entrapment in a prominent place or near any fixed controls,
- permanently fix the label concerning the manual release adjacent to its actuating member;

