

FORESEE®

Garage Door Opener

CE RoHS

**ASSEMBLING AND OPERATING MANUAL
FOR FORESEE GARAGE DOOR OPENERS**



F-380M/ F-380G/ F-380DM/ F-380DG

PLEASE READ THE MANUAL CAREFULLY BEFORE ASSEMBLING AND OPERATING

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IMPORTANT SAFETY INSTRUCTIONS



WARNING - IT IS VITAL FOR THE SAFETY OF PERSON TO FOLLOW ALL INSTRUCTIONS SAVE THESE INSTRUCTIONS

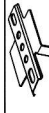
- ◇ Keep the garage door balanced. Do not let the garage door opener compensate for a binding or sticking garage door.
The A-weighted emission sound pressure level of the drive is equal or less than 70 dB(A)
Sticking, binding or unbalanced doors must be repaired before installing this opener.
Raise and lower the door to see if there is any binding or sticking. 15 kg is the absolute maximum allowable force to raise or lower the door in any position. Lift the door about halfway, release the door. If balanced, it should stay in place, supported entirely by its springs. If your door binds, sticks, or is out of balance, call a trained door technician.
- ◇ This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- ◇ Do not allow children to play with the appliance or its controls, including remotes
- ◇ To avoid serious personal injury from entanglement, remove all ropes, chains and locks connected to the garage door before installing the door opener.
- ◇ If you want to lock the rail after installation, release the trolley first; do not use the opener before the rail is unlocked and the trolley is locked.
- ◇ Do not wear rings, watches or loose clothing while installing or servicing a garage door opener. Wear gloves, safety goggles and suitable protective clothing where appropriate.
- ◇ Activate opener only when the door is in full view, free of obstructions and the opener is properly adjusted. No one should enter or leave the garage while the door is in motion.
- ◇ We strongly recommend to install obstruction detection systems on all garage doors, and the system must be used for all installations where the closing force as measured on the bottom of the door is over 400N. Excessive force will interfere with the proper operation of the safety reverse system or damage the door.

- ◇ The removal of the plug has to be such that an operator can check from any of the points to which he has access that the plug remains removed.
- ◇ This opener should not be installed in a damp or wet space exposed to weather.
- ◇ Installation and wiring must be in compliance with your local building and electrical codes.
- ◇ Pay attention to and keep away from a moving door until it is fully opened or closed.
- ◇ Operation of the emergency release can lead to uncontrolled movements of the door, if springs are weak or broken or if the door is unbalanced.
- ◇ Frequently examine the door installation, in particular cable, springs and mountings for signs of wear, damage or imbalance. Do not use if repair or adjustment is needed since springs and hardware are under extreme tension and a fault can cause serious personal injury.
- ◇ The safety reverse system test is very important. Your garage door MUST reverse on contact with a 50 mm high obstacle placed on the floor or the object can be freed. If necessary, adjust and recheck since an incorrect adjustment can present a hazard. If re-adjustment does not restore the correct operation, call for authorised service. Repeat the test once a month and make any necessary adjustments.
- ◇ **WARNING:** the drive shall be disconnected from its power source during cleaning, maintenance and when replacing parts.
- ◇ Permanently fasten the Warning Labels in Prominent Places, adjacent to Wall Controls and on manual release mechanism as a reminder of safe operating procedures.
- ◇ Ensure the door is in good mechanical state, being balanced and in normal working order before installation; doors that cannot work normally or being unbalanced should be repaired prior to installation. The garage door sleeves, spring, steel rope, pulley, support bracket and track under great tension may cause serious personnel injuries, untrained person should not attempt to adjust them. Contact professional personnel for repairing.
- ◇ After installation, ensure that the parts of the door do not extend over public footpaths or roads;

A. Inventory

The garage door opener is packaged in two cartons which contain the opener pack and the rail assembly pack illustrated below.

Opener Pack

Appearance	Name	QTY
	Opener	1
	Manual	1
	Transmitter	2
	Wireless Wall Control	1
	Curved Door Arm	1
	Mounting Strap	2
	Support Bracket	1
	"U" Bracket	3
	Header Bracket	1
	Door Bracket	1
Pack of Assorted Fasteners		
	6x15 Hexagon Head Driving Screw (8x) 6x80 Screw with Hexagon Nut	(1x)
	8x25 Inserted Pin (1x) 3x20 Cotter Pin (1x) Plum Offset Ring	(1x)
	6x80 Expanding Screw (6x) 8x20 Screw with Hexagon Nut	(4x)

Rail Pack

Pre-Assembled Rail		
	Rail	(1x)
	Straight Door Arm	(1x)
	Chain	(1x)
	Emergency Cord	(1x)
	Trolley	(1x)

- ◇ 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. Operation of the emergency release can lead to uncontrolled movements of the door, if springs are weak or broken or if the door is unbalanced. Mount the release handle of the emergency release at a height less than 1.8 m from the floor.
- ◇ Install the wireless wall control (or any additional wall control) in a location where the garage door is visible, at a height of at least 1.5 m and out of the reach of children. Do not allow children to operate push button(s) or transmitter(s). Serious personal injury from a closing garage door may result from misuse of the opener.
- ◇ After installation, ensure the mechanical structure is correctly adjusted, and the drive unit should operate reversely when touch with a object 40mm above the floor.
- ◇ The drive unit shall not be used for garage doors cooperating with a pass door.
- ◇ (unless the drive unit cannot work when the pass door is opened.)
- ◇ Ensure the breaking strength/static load of one rope can be 6 times of rated driving force of opener.
- ◇ The diameter of pulley should be 20 times as diameter of steel rope. Because if the curvature of pulley is small, it may cause the steel rope overbending and abrasion which may result in hazard.
- ◇ Keep the door being balanced so as to avoid the breaking of steel rope or trains/belts during operation thus cause the door falling down and human injuries.
- ◇ The opener should be installed at places with good lighting, and without any blocking.
- ◇ Safeguard the hazardous parts installed less than 2.5m from the floor.
- ◇ The door will stop immediately during lifting up when meeting obstruction, the unit displays F, and indicated by flashing light.
- ◇ After installation, ensure that the drive prevents or stops the opening movement when the door is loaded with a mass of 20 kg, fixed centrally on the bottom edge of the door.

B. Function Introduction

Intelligent Microcomputer	—	Intelligent computerized precise travel positioning, timely force detection, reversion occurs when obstacles are met.
Soft-Start and Soft-Stop	—	Protect the motor and ensure the long lasting service of noiseless and durable features.
Self Diagnosis	—	Operational mode and digital menu shown on the display, self diagnosis. (L=Normal, F=Interrupted, H=Fail In Reading, A=Infrared Ray Interrupted)
Cryptoguard	—	Rolling code technology provides billions of code combinations and makes every remote control a unique one that protects against unauthorized access.
Alarm Device	—	The buzzer alarm will sound to warn if the door is left open for over 10 minutes. The alarm stops when the door is closed again.
Automatic Closing Door	—	Under the door open status, the door will close automatically after your set time.
2000 Cycles Alarm	—	When the operator has run 2000 cycles, it will beep to remind the user to do regular maintenance on the mechanical system.
Operation Cycles Checking	—	Easy for technicians and maintenance staffs to check the record of the operation cycle times on the display.
Emergency Release	—	The door can be manually operated by pulling down on the emergency release rope in case of power failure.
Opening Speed Selection	—	It is available to select the opening speed between 12-14cm/s and 8-12cm/s.
Additional Safety Device	—	Safety further ensured with additional accessory photocells.

IR Protection

— The system will perform various modes to protect the user, at any position and situation when the photocells are activated and obstructed. (Refer to E-2)

Condominium Mode

— To prevent injuries during the door is closing or at close position, if someone else at the same condominium presses the transmitter or manual switch, the door will only turn to open.

Learn the Force Manually

— When the resistance becomes bigger, such as, after snow, the user can calibrate the force manually, no matter the door is at open position or at close position.

Pass Door

— It allows to stop a moving door by taking off the short circuit between GND and EMRG when emergency switch is Normal Close. It is invalid to press transmitter or manual switch until the short circuit recovers.

Pet Path

— It is available to program a channel as the path for your pets, including pet channel coding and decoding.

C.Assembly Procedure



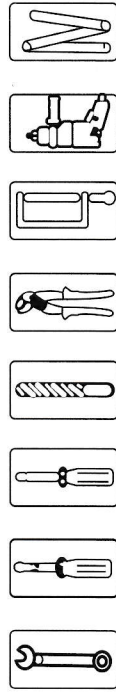
IMPORTANT SAFETY INSTRUCTIONS FOR INSTALLATION

WARNING-INCORRECT INSTALLATION CAN LEAD TO SEVERE INJURY

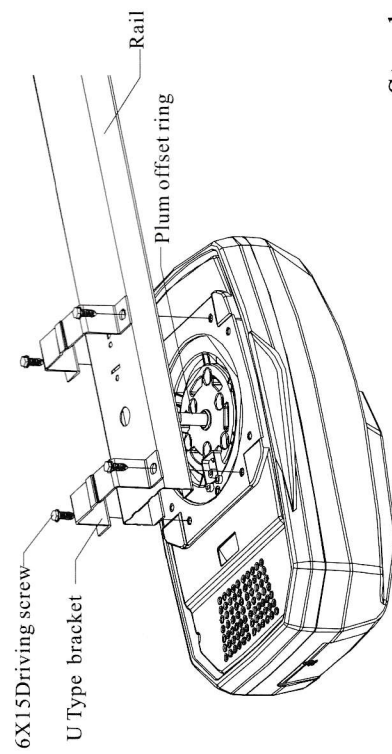
FOLLOW ALL INSTALLATION INSTRUCTIONS

- ◇ Before installing the drive, remove all unnecessary ropes or packing and disable any equipment which is not needed after installation of the drive;
- ◇ Before installing the drive, check that the door is in good mechanical condition and correctly balanced, and that it opens and closes properly;
- ◇ Install the actuating member for the manual release at height less than 1.8m;
- ◇ Install any fixed control within sight of the door but away from moving parts and at a height of at least 1.5m;
- ◇ 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;
- ◇ After installation, ensure that the mechanism is properly adjusted and that the drive reverses when the door contacts a 40mm high object placed on the floor
- ◇ After installation, ensure that the parts of the door do not extend over public footpaths or roads; after installation, ensure that the drive prevents or stops the opening movement when the door is loaded with a mass of 20kg, fixed centrally on the bottom edge of the door (for drives that can be used with doors having openings larger than 50mm in diameter)
- ◇ Install the drive at height no less than 2.5m.

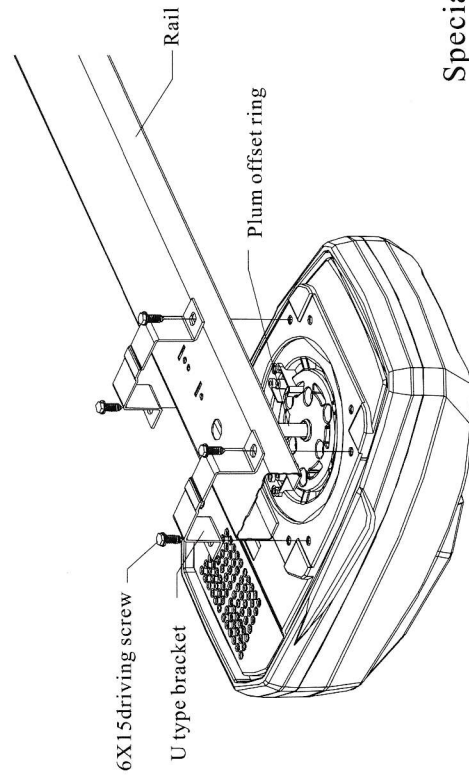
C-1 Essential Tools



C-2 Connecting The Body With The Rail



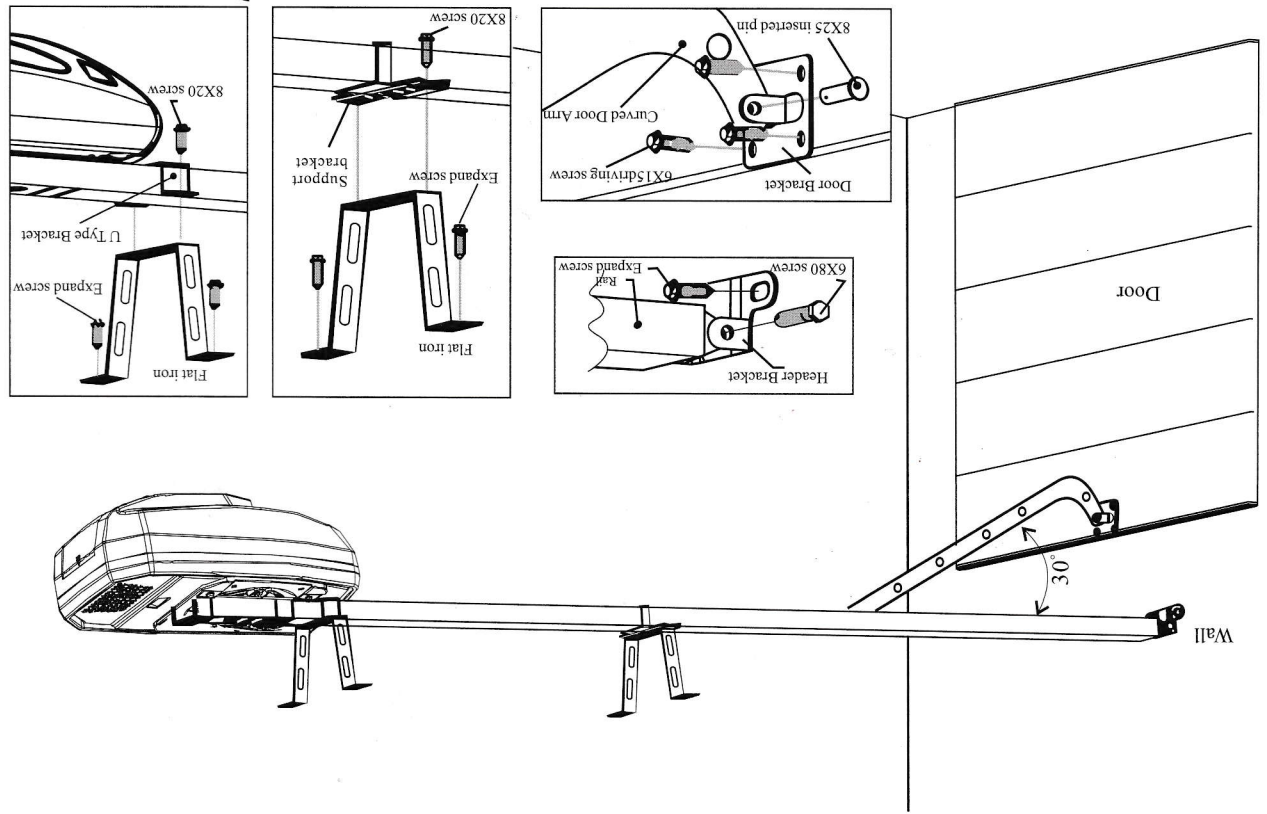
Standard



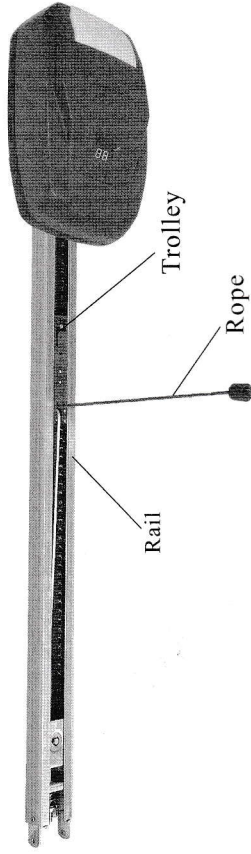
Special

⚠ (The special one with a micro switch should be mounted referring to the figure)

C-3 How To Fix The Body And The Rail



C-4. How To Open The Door Manually



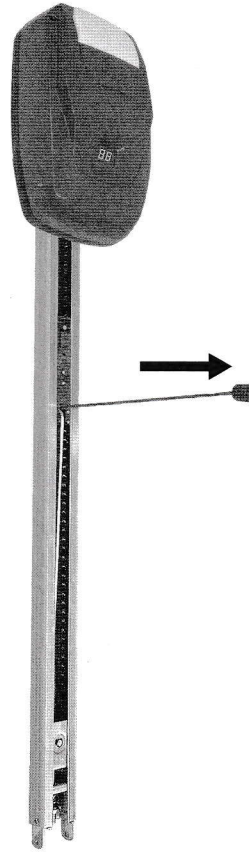
In the case of power failure-

(1). When the door is in the closed position:

Pull down on the rope and dis-engage the clutch, this will allow the door to be lifted with ease.

(2). When the door is in the open position:

Pull down on the rope once, this will allow the door to move downward to the closed position.

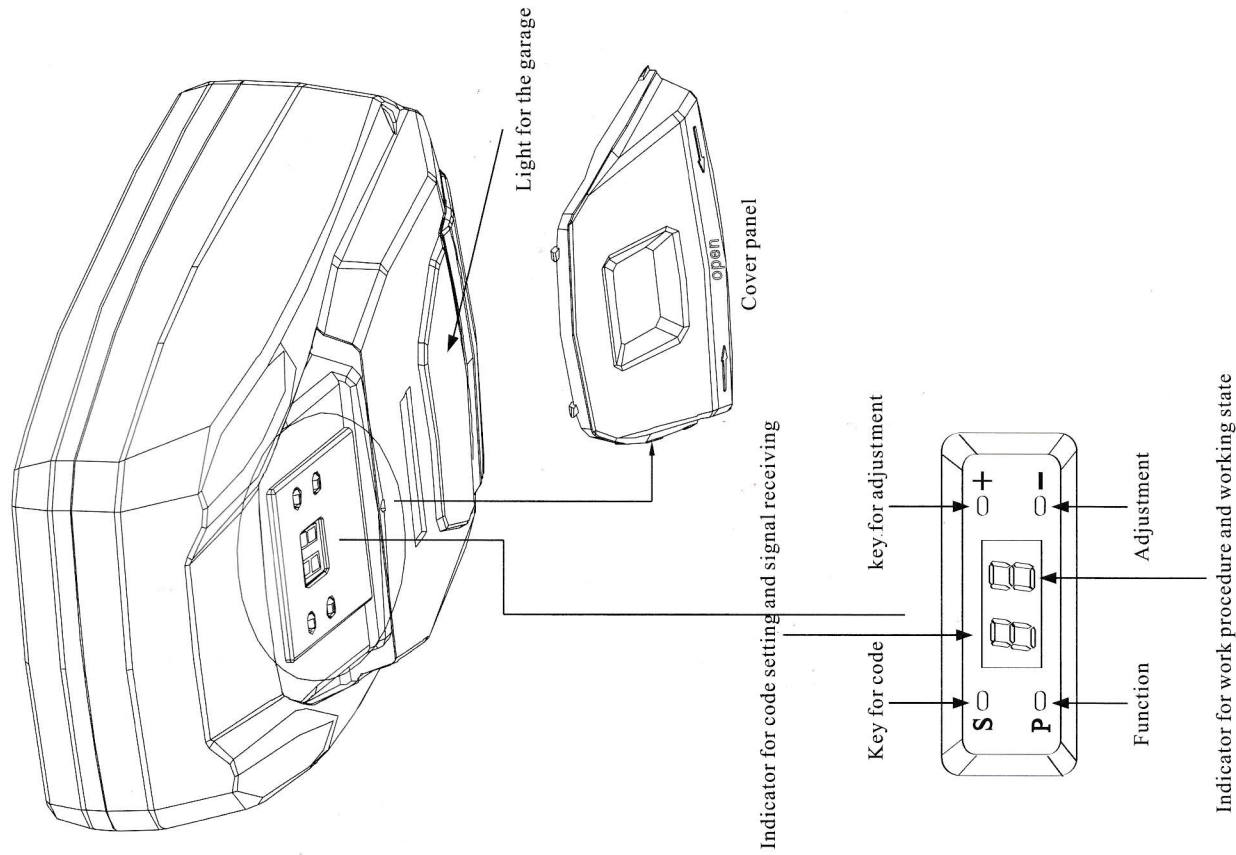


If power recovers-

Operate the handheld transmitter or the wall control again, the clutch will be re-engaged automatically.

⚠ (NB: If the rail is 1-section type, the system features the self-lock function but 2-sections does not.)

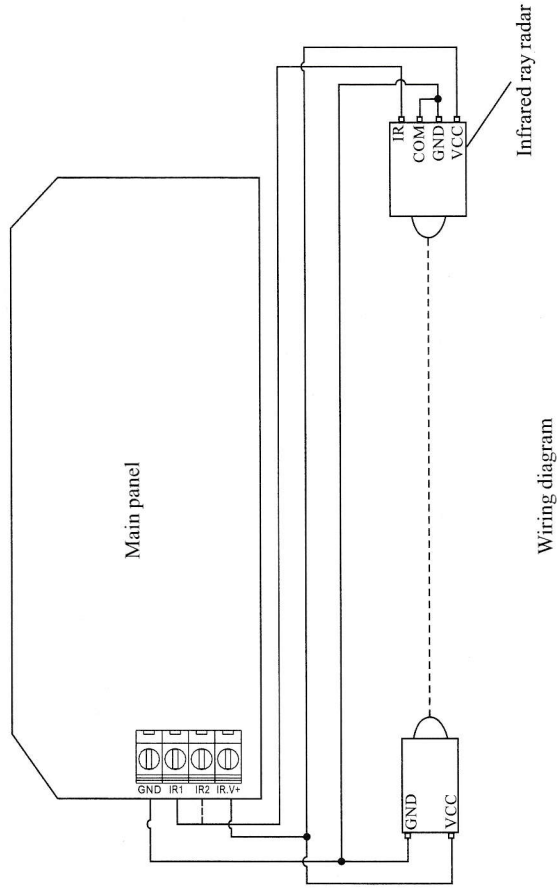
D. The Main Body and Program Panel



E. Wiring Diagram For Infrared Beam

E-1 Infrared Ray Emitting And Receiving (Optional Accessories)

a. Connections as follows



b. Ideal situation

Check	Distance	Volt.	Current	Out-Put	Type
Emit and receive	10m	12V	150 mA	Triode D.C. NPN	Slight trembling

E-2 Infrared Ray Instruction

When the door is closing and the infrared ray beam is interrupted, the infrared ray works and the door will stop immediately. But when the door is opening, it does not work.

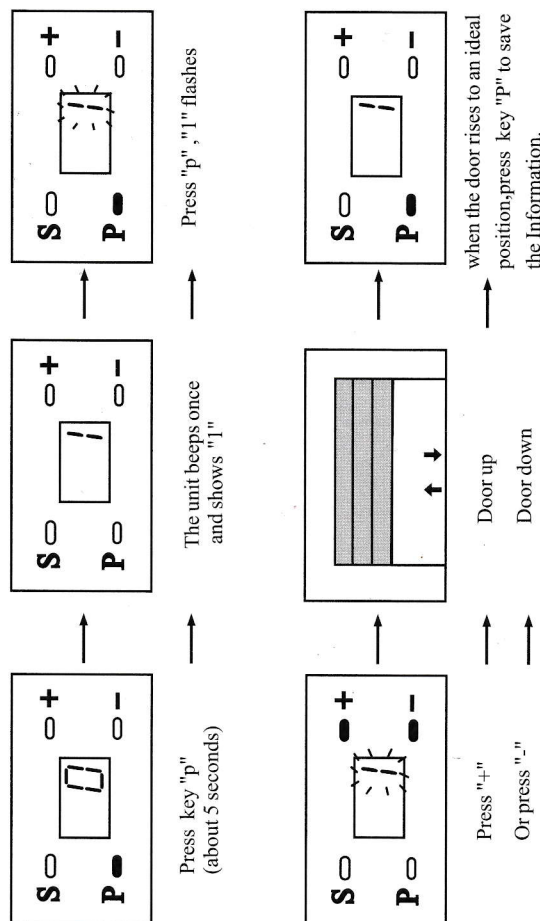
F. Programming

F-1 Prepare — a. Gently move the door to engage the trolley so that the opener can drive the door

b. Turn on the power, the light will come on, the unit will 'beep' once and the display shows "0" in cycles.

⚠ (If the finalize programming is not carried out, the setting will be deleted automatically. If wrong information has been programmed, you can turn the power off and then turn it on again to reset referring to the following.)

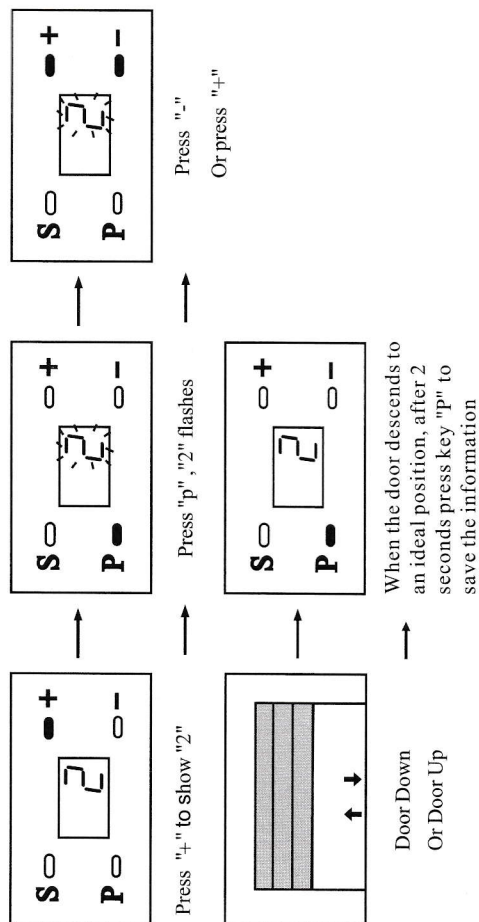
F-2 Up Limit Setting



⚠ (NB: The saved information has no effect if this performance is used for down limit setting)

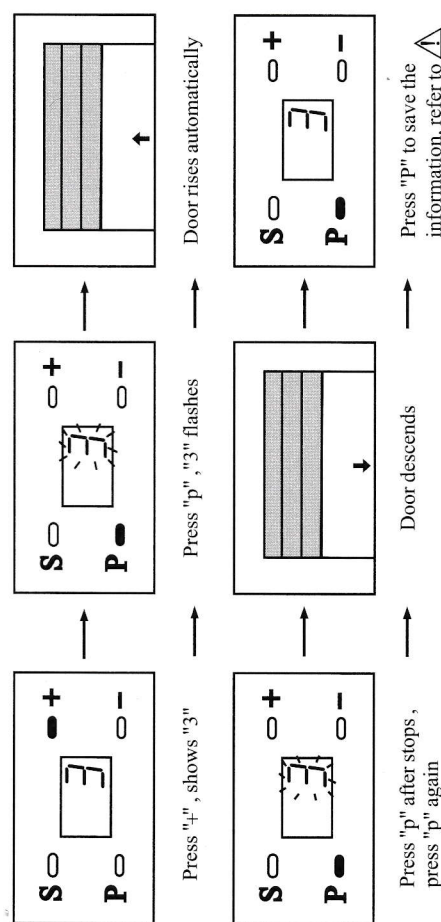
⚠ The up limit setting must be programmed before the down limit setting

F-3 Down Limit Setting



⚠ (NB: The saved information has no effect if this performance is used for up limit setting)

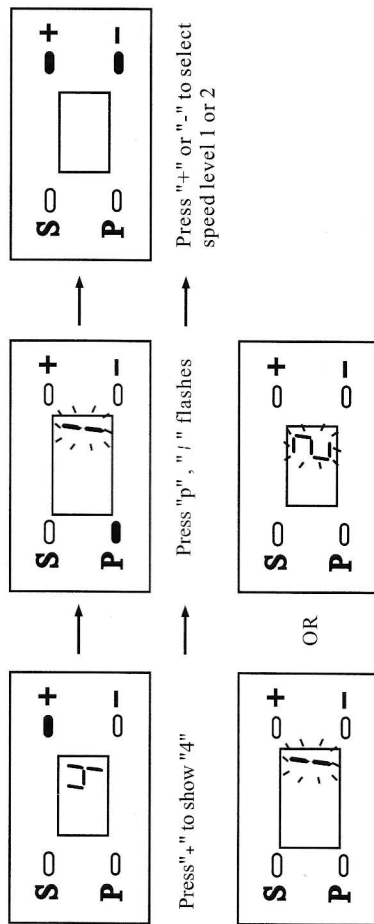
F-4 Operating Force Learning



⚠ (After the above basic setting, the user can now carry out the finalizing step to finalize the programming)

F-5 Opening Speed Setting

(Factory Default is at Level 2)

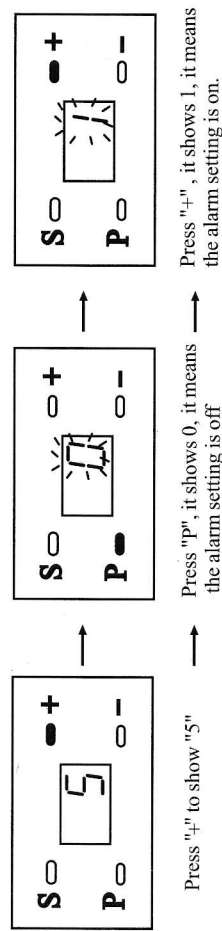


⚠ Level 1: The opening speed is 12~14cm/sec; closing speed is 8~12cm/sec;
Level 2: The opening speed and closing speed are 8~12cm/sec.

Press "P" to save the setting

F-6 Alarm Setting

(The factory default is set at "off")



⚠ If the setting is on, the opener will start to beep when the door is open for over 10 minutes, it will beep for 30 seconds every 10 minutes)

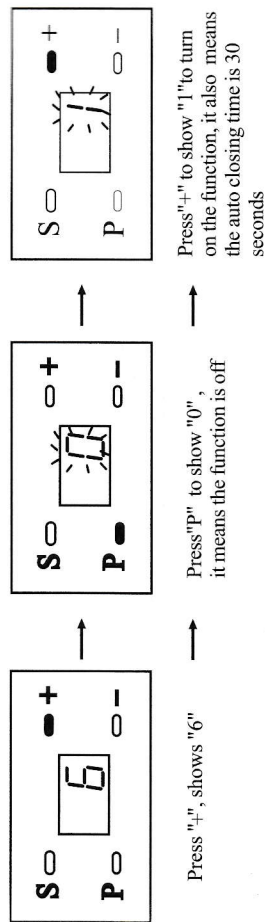
Exit from the sounding alarm

Press the door Control button to close the door fully.

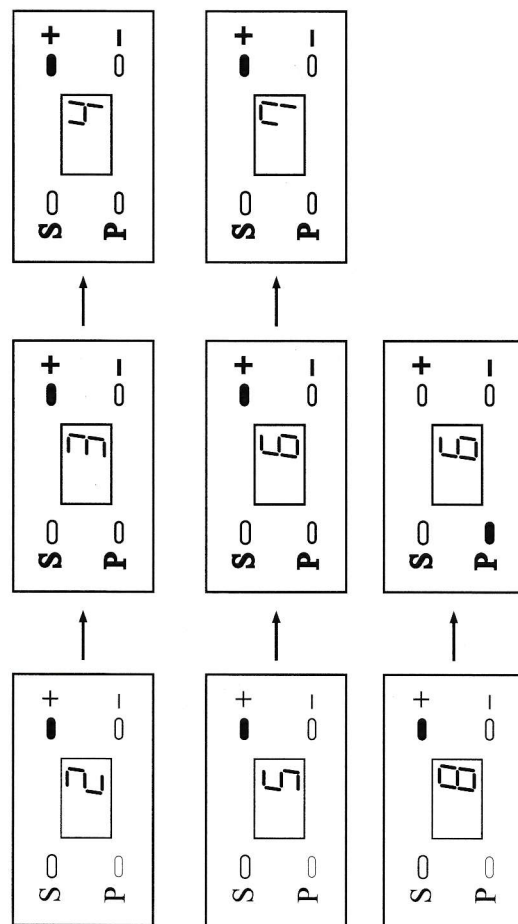
Press "P" again to save the setting

F-7 Automatic Closing Time Setting

(The factory default is set at "off")



Press "+" or "-" to choose the time according to the following drawings, 8 means 240 seconds(Maximum), 7 means 210 seconds etc.

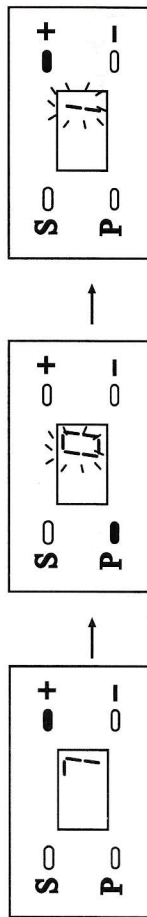


Press key "P" to show "6" and exit the program according to the manual after choosing the time of automatic closing the door

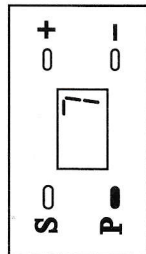
⚠ The opener beeps for 20 seconds before the door starts to close automatically, at the same time the light flashes. When the door starts to close, the opener beeps, the light keeps on but stops flashing. After the door is closed, the motor stops beeping, and the light keeps on for 3 minutes.

F-8 2000 Cycles Alarm Setting

(The factory set at "off" position)



Press "P", shows "7"
Press "P", it shows 0, it means the function is off
Press "S", it shows 0, it means the function is on



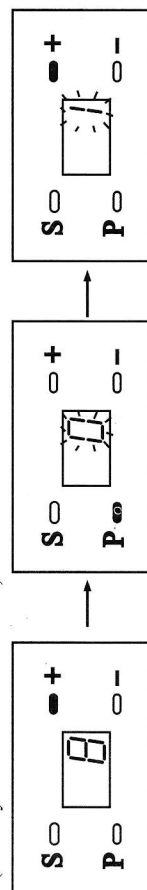
Press "P" to save the setting

⚠ After a period of time in use, regularly check to see whether the door is level when opening / closing, whether the spring has enough force to raise the door. Add suitable amount of lubricant to all moving parts regularly.

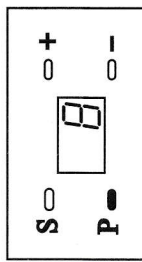
⚠ Exit way for the sounding alarm: turn off the power then switch on again or press the door control button for 5 seconds

F-9 Condominium Mode

(Factory Default is deactivated)



Press "P", "8" flashes, means the function is deactivated.
Press "P", "0" flashes, means the function is activated.
Press "S", "1" flashes, means the function is activated.

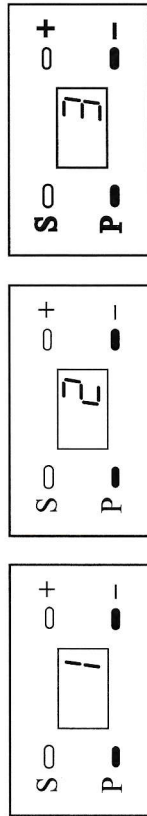


Press "P" to save the setting

⚠ When the door is at closing position or during closing, press transmitter or manual switch, the door will turn to open immediately. But during opening operation, it is invalid to press transmitter or manual switch.

F-10 Operation Cycles Checking

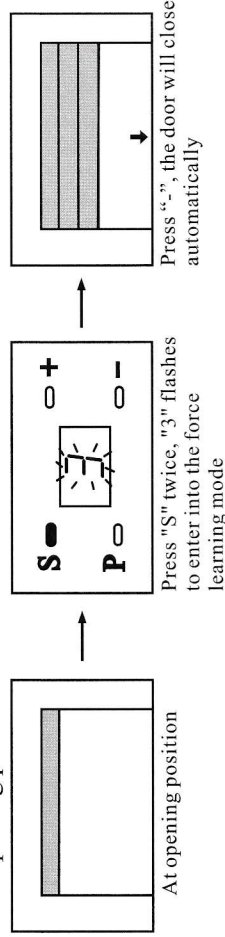
Press both "P" and "-", the display shows the operation cycle times



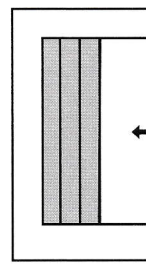
"1" refers to 1000 cycles
"2" refers to 3000 cycles
"3" refers to 6000 cycles
.....
Max. 24000 cycles
⚠ After 5 seconds, it will withdraw this function automatically.

F-11 Learn the Force Manually

a. At opening position

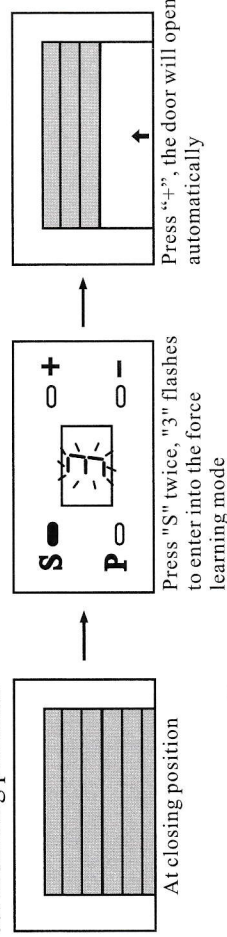


Press "S" twice, "3" flashes to enter into the force learning mode

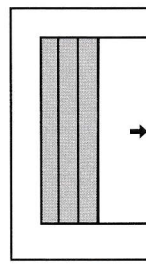


Then open automatically after reaching the closing position

b. At closing position



Press "S" twice, "3" flashes to enter into the force learning mode



Then close automatically after reach the closing position

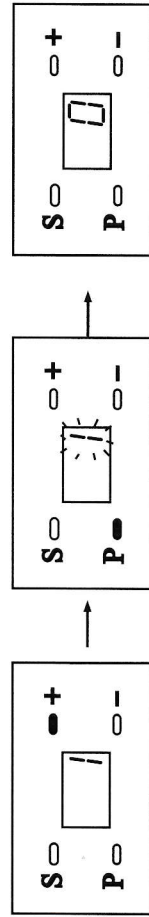
⚠ No other operation is allowed during the door moving. It will withdraw this mode automatically after the cycle Press "S" twice at middle travel, the function will not be activated.

F-12 Finalize Programming

⚠ (NB: this finalizing step must be carried out, otherwise the saved information will be lost)

The user has two ways to exit finalize programming as follows:

Way 1:

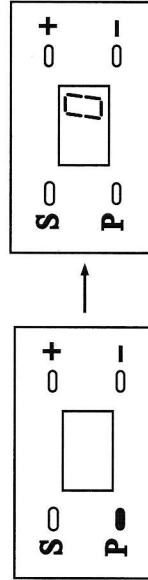


Press "+" to select "1"

Keep pressing "p" for 5 seconds

"0" is shown in cycles to complete the programming and enter resting state of the opener

Way 2:

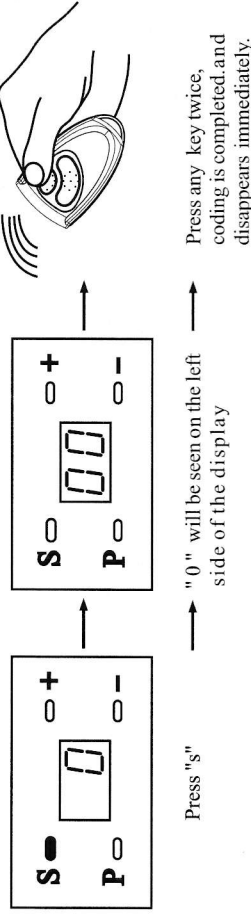


After operating force learning (refer to F-4 on P12), when the user finishes any steps of the menu, press "p" for 5 seconds

"0" is shown in cycles to complete the programming and enter resting state of the opener

G. Programming of Transmitters

G-1 Code



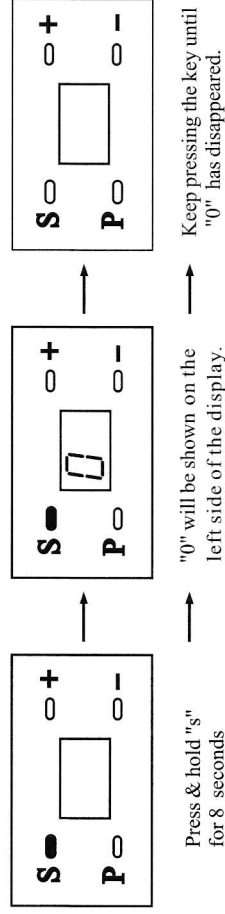
Press "s" → "0" will be seen on the left side of the display

Press any key twice, coding is completed and disappears immediately.



At this time, the code has been successfully set if the opener works. Other transmitters can be set as above.

G-2 Decode



Press & hold "s" for 8 seconds

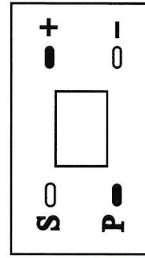
"0" will be shown on the left side of the display.

Keep pressing the key until "0" has disappeared.

By now, no transmitters can operate the opener unless re-coded.

G-3 Pet Channel Decoding

When the door is at full closing position



Press both "p" and "+" for 3 seconds, you will hear "beep" twice



NB: For security purpose if a transmitter has been lost it must be decoded and the new transmitter encoded as above, so that the lost one can not operate the door anymore.

H. Technical Specification

H-1 Model and Recommended Usage

Model	Input Voltage(Vac)	Area of the door(m ²)	Max. Door Weight: (kg)	Surrounding difference in temperature(℃)
F-380M/DM	220-240Vac, 50/60Hz	≤ 10	≤ 114	-20——40
F-380G/DG	220-240Vac, 50/60Hz	≤ 14	≤ 157	-20——40

H-2 Guide Rail and Available Sizes

Model	Total length	Travel of the rail	Height of the door in rising
LK-3000	3020mm	2500mm	<2200mm
LK-3300	3320mm	2800mm	<2500mm
LK-3600	3620mm	3100mm	<2800mm
LK-3800	3820mm	3300mm	<3000mm

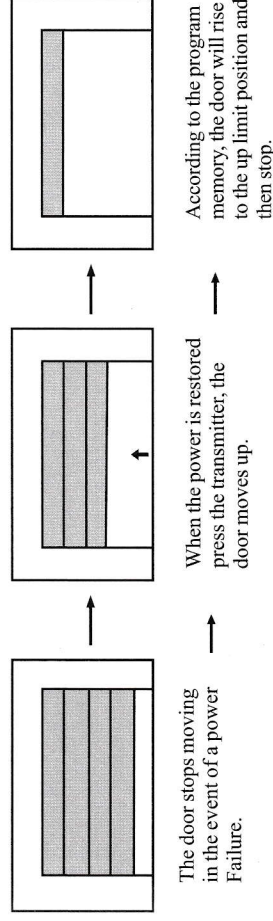
H-3 Specification List

Power	100W/ F-380M	100W/ F-380DM	
	150W/ F-380G	150W/ F-380DG	
Standby mode	With the light off: F-380M/4.5W, F-380G/6.5W; F-380DM/F-380DG, with the light off: <1W		
Rated load	F-380M/F-350DM:700N	F-380G/F-380DG:1100N	
Controller	CPU		
Controlling method	Impulse Inducing		
Motor	24V DC		
Light	1W		
Speed of the door	Level	Opening	Closing
	1	12-14cm/second	8-12cm/second
	2	8-12cm/second	
Transmitter frequency and distance	433 MHZ/ Open Space 50m		
Drive	Chain / Belt		
Rated operating time	4 min		

I. End User's Guide

I-1 Care Of The Opener

- F-380M/G/LM/LG type opener is an environmentally friendly product generally requiring a minimum of maintenance in normal use.
- For the first operation, please examine the drive system to see whether it moves easily (Release the clutch, push and pull the door manually)
- After a period of time in use, regularly check to see whether the door is level when opening/closing, whether the spring has enough force to raise the door. Regularly lubricate all the moving parts.
- In the event of power failure the operator can search for the program memory. When the power is restored, press the button of the transmitter once, the door will rise.



I-2 Normal Operation

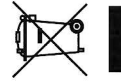
- Remote Control — Opening, closing or stopping can be achieved by the push of a single button on the transmitter.
- Manual operation — In the event of power failure, opening or closing of the door can be done by hand once the clutch is released. (Please refer to P.8)

I-3 Trouble Shooting

Fault	Causes	Deal With
The opener does not work	1. The plug is not securely fitted 2. The fuse is blown	1. Check by a technician 2. Replace the same type of fuse by a technician
The door does not work	1. No code has been set 2. The battery is out of power	1. Re-code referring to G-1 on P.18 2. Replace with new battery
Remote control distance is too short	The battery is not powerful enough	Replace with a new one of the same model
The chain moves, but the door does not	The clutch may be unlocked	Lock the clutch referring to C-4 on P.8
The alarm keeps beeping	1. Door is open too long 2. 2000 cycles alarm	1. Close the door 2. Turn off the power, then recover again
The door is not at the position when opened or closed, or not working	Failure in set-up	Set again referring to F on P.11
The door does not work in normal, and "H" is shown on the screen	Computer failure due to humidity	Dry out the unit (by a technician)
Sudden stop or bounce in working, and "F" is shown on screen	1. The torque spring is distorted 2. Obstruction is met 3. The power is not stable	1. Adjust the torque spring by a technician. 2. Adjust the resistance to a proper level until "F" disappears
In working, a grating sound can be heard	Lack of lubricant between the rail and the clutch after a long period of use	Add suitable amount of lubricant or wax to the position between the rail and the clutch
The chain has come loose and is noisy	Looseness of the chain because of being used for a long time without lubricant between the rail and the clutch	Suitably fasten the bolt on the spring, holding the chain in place and lubricate it (Refer to ④ on P.23)

⚠ NB: To avoid being electrocuted, only a professional technician is allowed to touch the wires and components on the main panel.
Correct disposal of this product:

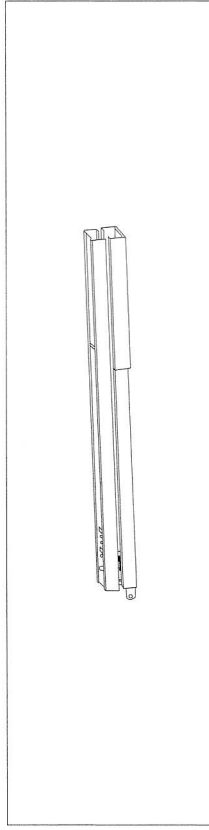
This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.



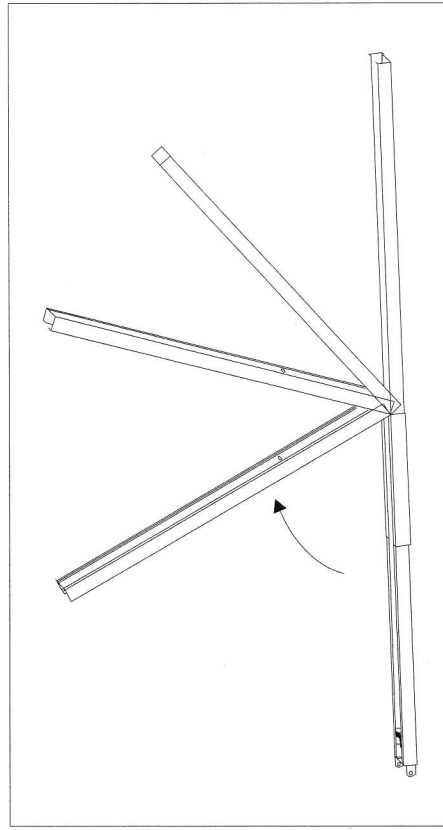
One "GP" 23AE, alkaline battery was used in remote control unit. Remove batteries from the remote control unit when it is out of service for long periods and is to be disposed of safely.
Warning: After 2008-9-26, following batteries will be prohibited to use.
- Containing more than 0.0005% mercury;
- Containing more than 0.002% cadmium;
- Containing more than 0.004% lead.

J. Assembly of the Rail in 2 Parts

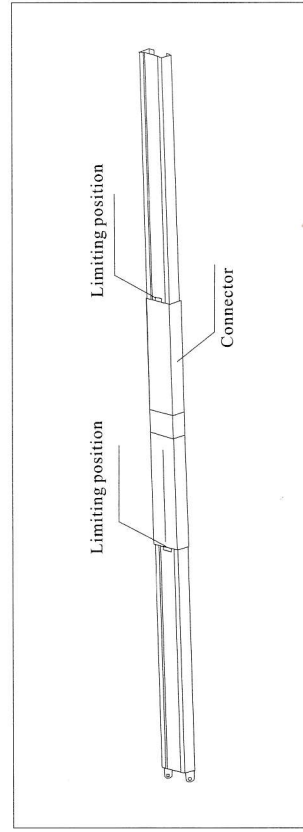
① Open the rail assembly pack



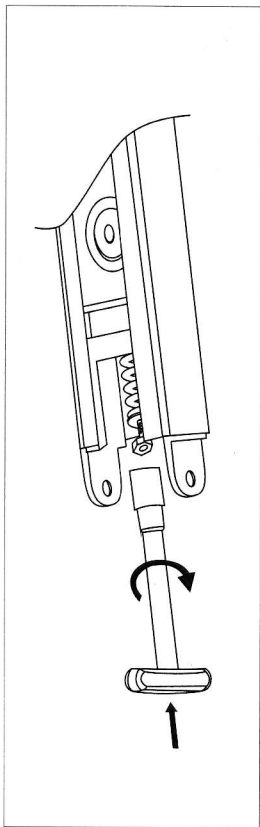
② Unfold the rail in the direction of the arrow



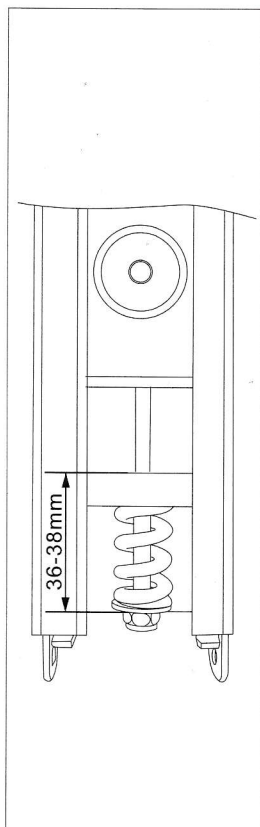
③ Move the connector to the middle of the rail and between the position limits



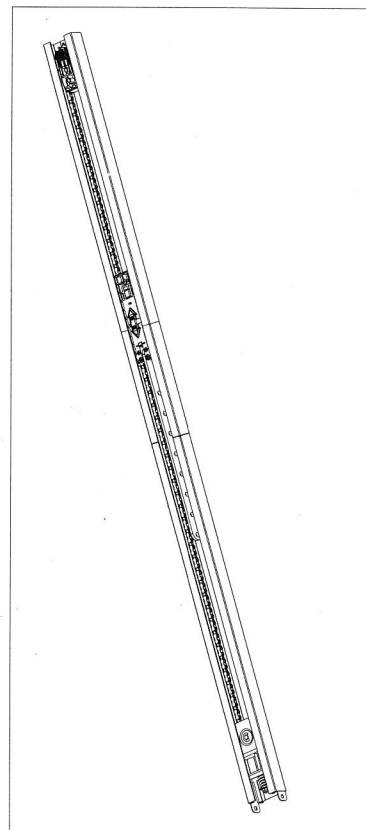
④ Tighten the nut with a sleeve of $\phi 13$



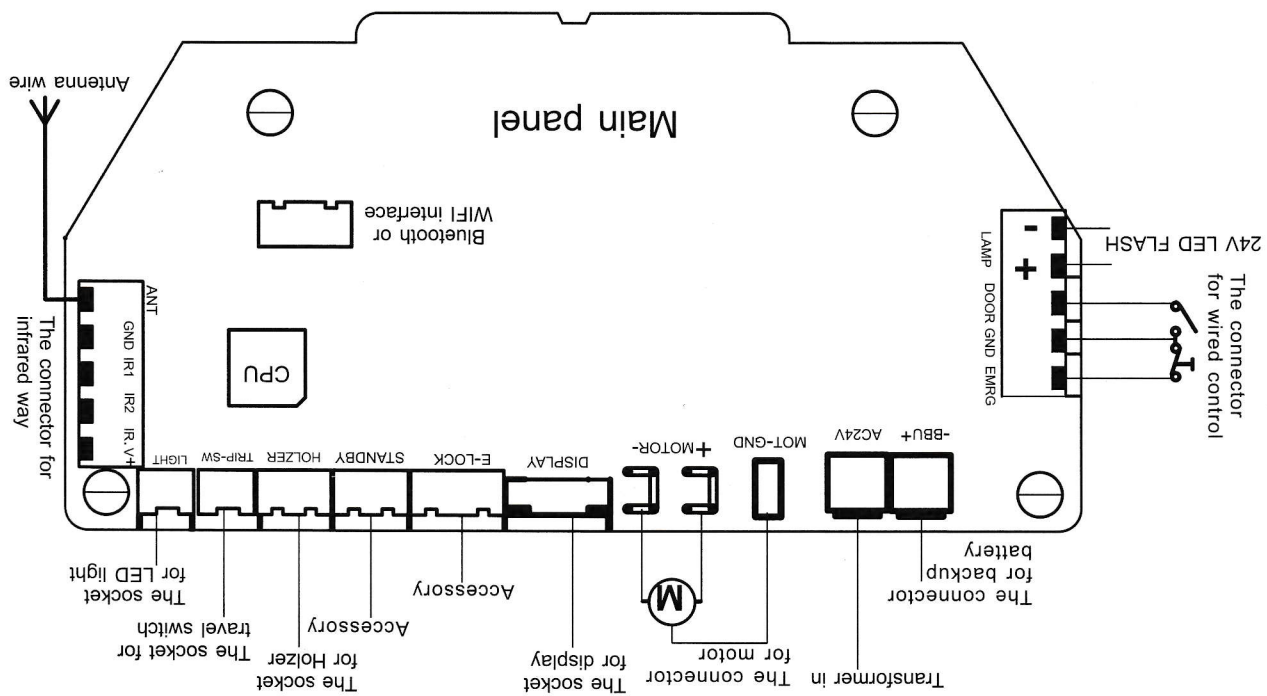
⑤ Adjust as the drawing shows



⑥ Finished



K. Annex : wiring drawing



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