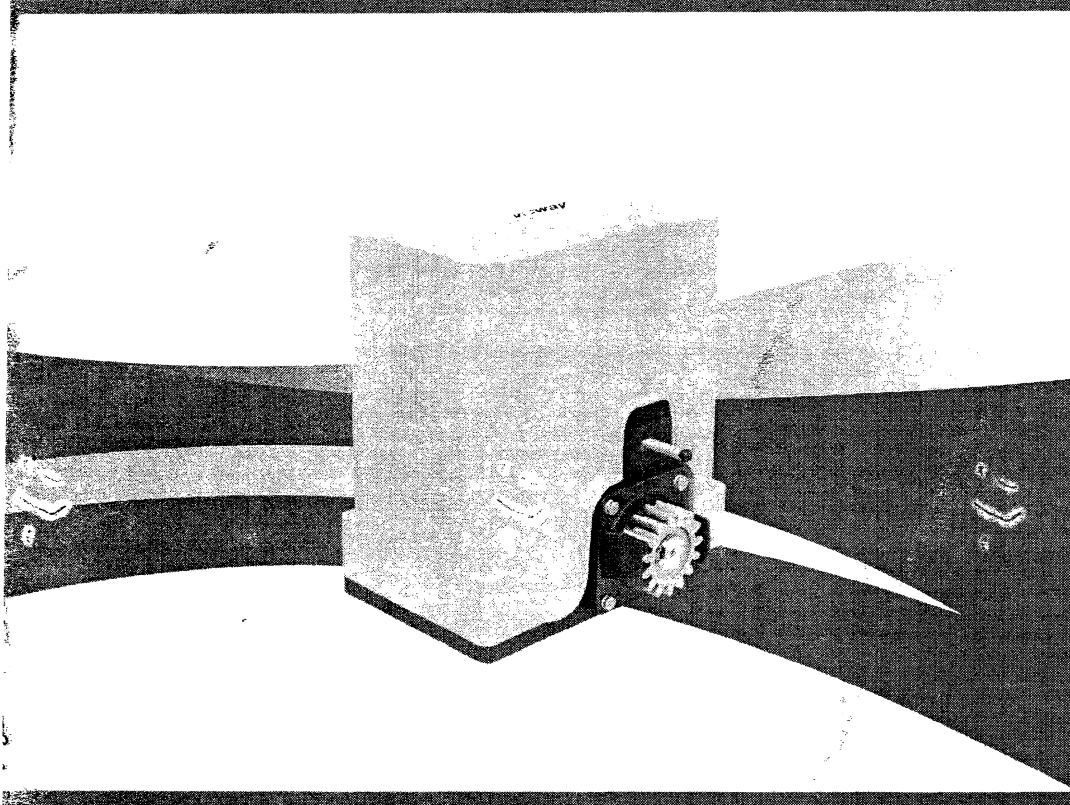


vicway

CE RoHS

Sliding Gate Opener

Installation Manual and Owner's Guide



V-550

PLEASE READ THE MANUAL CAREFULLY BEFORE INSTALLATION AND OPERATION

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

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

It should be installed by agent or similarly qualified persons in order to avoid a hazard.

Means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.

Disconnection incorporated in the fixed wiring is to be provided.

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.

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.

Do not allow children to play with fixed controls. Keep remote controls away from children.









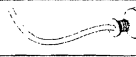
Frequently examine the installation for imbalance and signs of wear or damage to cables, springs and mounting. Do not use if repair or adjustment is necessary.



Before installing the drive, check that the driven part is in good mechanical condition, correctly balanced and opens and closes properly.

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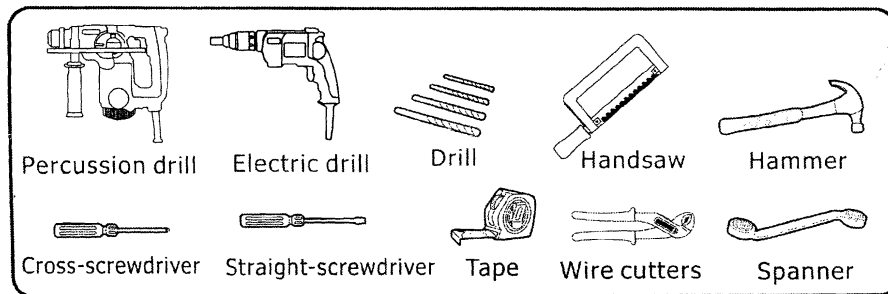
1. Packing list

	Name	Quantity
	Sliding gate opener	1pcs
	User manual	1pcs
	Transmitter	2pcs
	Base plate	1pcs
	Release key	2pcs
	M8x80 Expanding screw	4pcs
	M8 X40 Screw with hexagon nut and plain washer	4 sets
	Limit switch bracket	2pcs
	Australian plug	1pcs

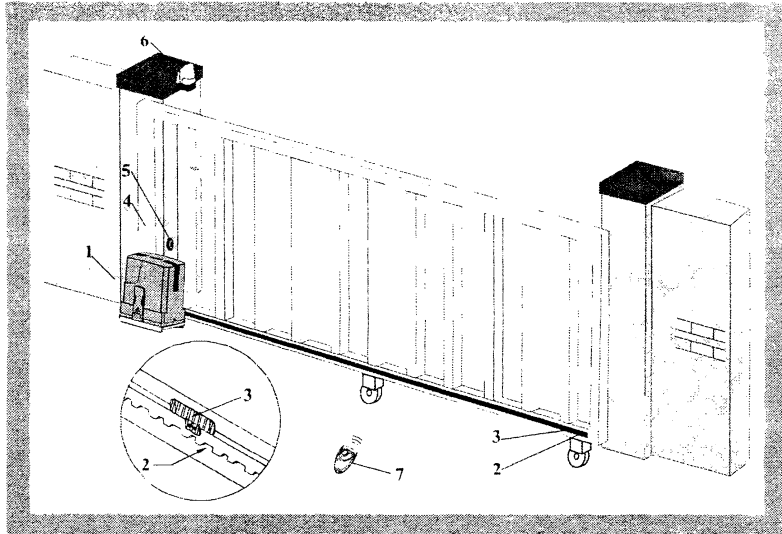
	Name
	Photocell/FA31(optional)
	Flashing light /FA40(optional)

3. Installation tools

(Confirm that you have the following tools and comply with latest safety technical standard.)



3. Assembly of operator



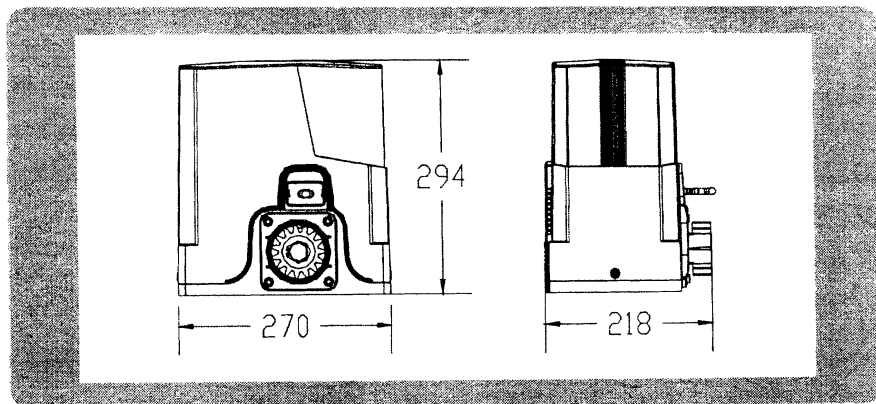
- 1. F-550 operator
- 2. Rack
- 3. Limit switch bracket
- 4. Gate

- 5. Photocell
- 6. Flashing light
- 7. Transmitter

Comment:
 (power cord specification)
 For input power: 3x1.5mm²
 For flashing light: 2x1.5mm²
 For photocell: 5x0.5mm²

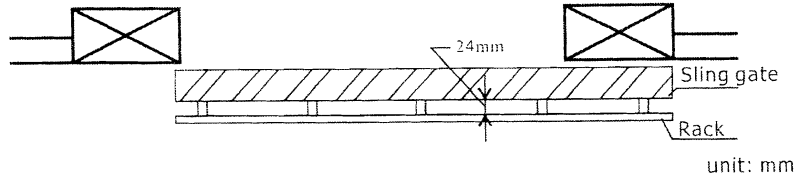
4. Assembly of operator

1. Operator outlines and dimensions (mm)

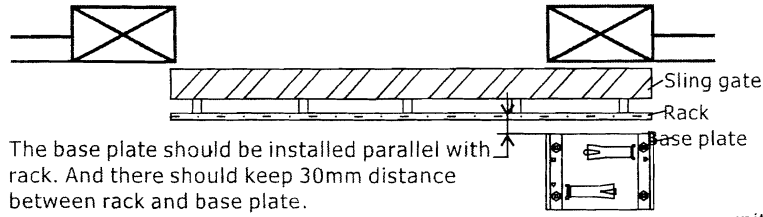


2. Rack installation

The installation distance between rack and gate should be 24mm.




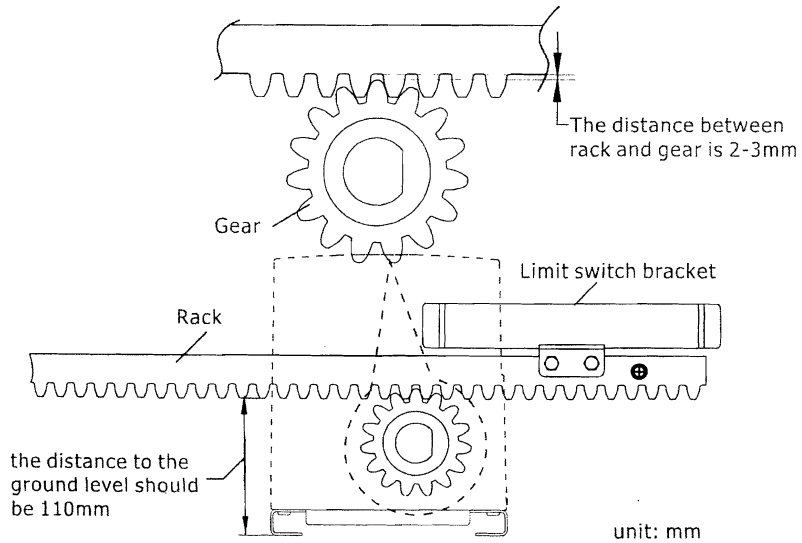
3. Base plate installation




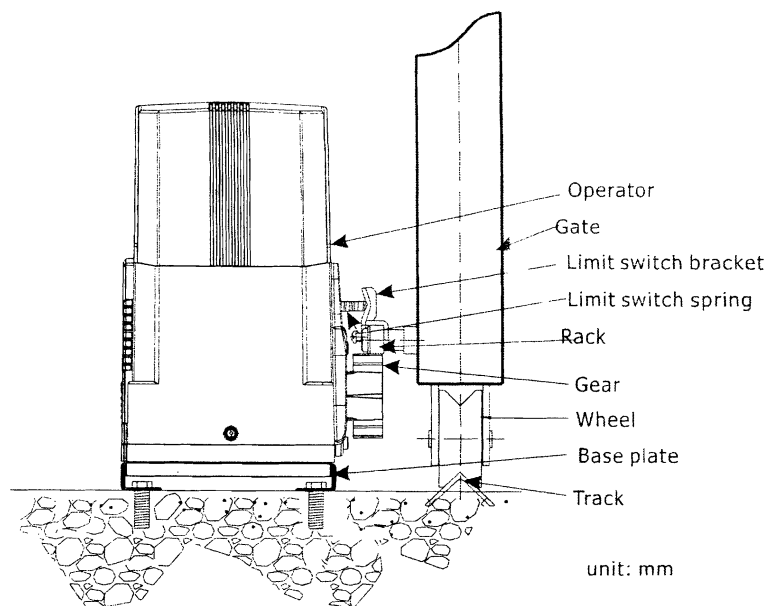
The base plate should be installed parallel with rack. And there should keep 30mm distance between rack and base plate.

4. Operator installation

 Please check whether the sliding gate can be moved smoothly before installation.

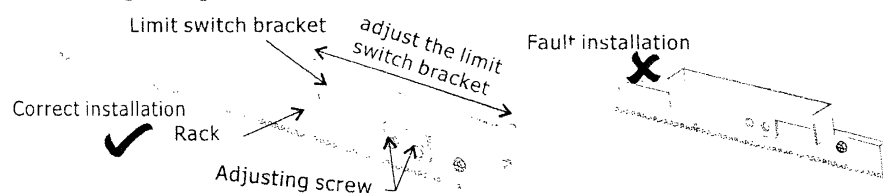


 **There must be a clearance between rack and gear as above picture shows, otherwise the motor function and manual operation may be effected.**



5. Limit switch bracket installation

Put the limit switch bracket on the rack, and fix it with adjusting screw. Please notice to install the limit switch bracket correctly. If the installation is wrong, the gate can not learn the travel limit.

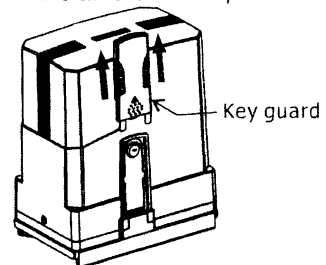


6. Operation of release key

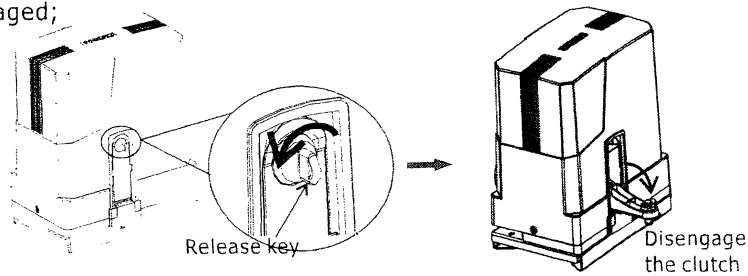
The clutch can be disengaged in the following 3 cases:

1. In case of power failure, we need open or close the gate manually.
2. It need to reset the functions.
3. opener breakdown and need maintenance.

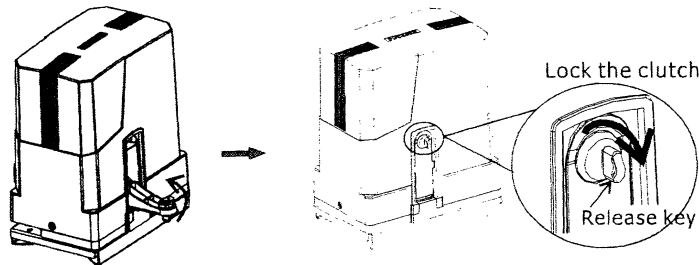
a. Pull out the key guard as the arrow shows;



b. Turn and pull out the release key as arrow shows, and the clutch is disengaged;



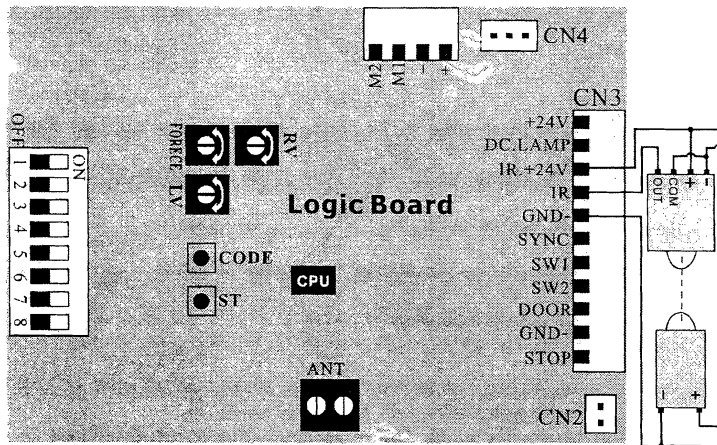
c. Close the clutch, and turn the release key as arrow shows to clock the clutch.



⚠ Note: Please remember to lock the clutch after finished all the operation.

7. Photocell connection

a. Photocell wiring diagram



b. Photocell user manual

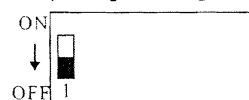
When the photocell are wired correctly, the DL1 LED will be ON, and DL1 LED will flash when the photocell beam is interrupted. When the gate is closing and the photocell beam is interrupted, the gate will stop and reverse to open immediately. If the photocell is not installed, please connect terminal GND and IR with an short cable.

1. Code

Multi-button coding function: More than one button in a transmitter for full opening /closing can be memorized. When one button in a transmitter is coded successfully, the second button in the same transmitter can also be coded. And press the second button, it can also control the full opening /closing of the gate.


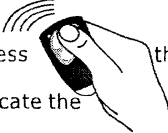


Put dip switch 1 at ON position, more then one button in a transmitter can be memorized.




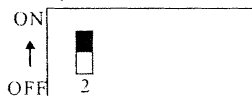
Put dip switch 1 at OFF position, only one button in a transmitter for full closing/opening.

a. Full closing / opening button coding:

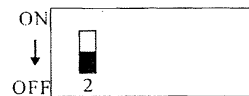
Press  for 2 seconds, DL6 LED will be on, press  the desired button twice, DL6 LED will off, which indicate the button is memorized.

b. Pedestrian access button coding:






 Pedestrian coding will be valid only when the dip switch 1 is at OFF position.



Put dip switch 2 at ON position, it is with pedestrian access.




Put dip switch 2 at OFF position, it is without pedestrian access.

Press  for 2 seconds, DL6 LED will be on, and press  again, DL6 LED will flash. Then press  the desired button  twice, the DL6 LED will be off, which indicates the button is memorized. If you want to exit the coding in halfway, just need to press  for one time when the DL6 LED is flashing.

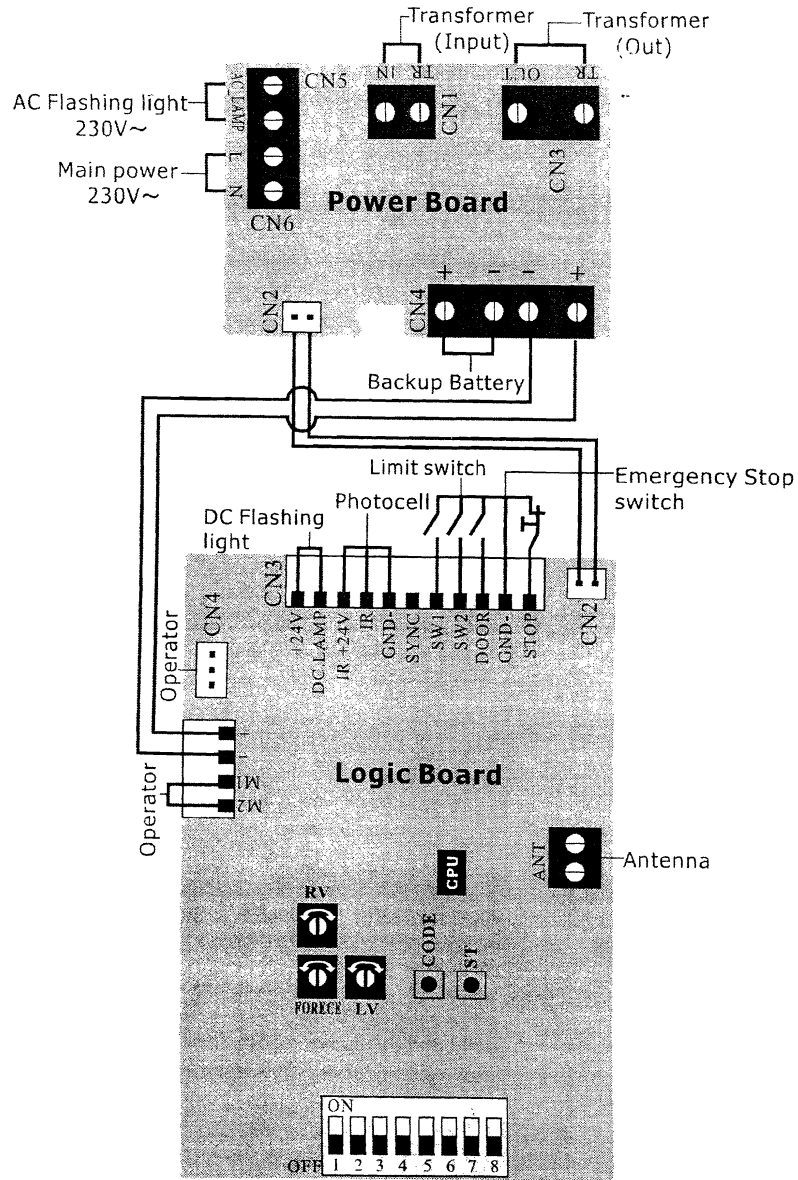
c. Max. 16 transmitters can be memorized. When coding with 17th transmitter, the first coded transmitter will delete the memory.
Transmitter working mode: Open⇒Stop⇒Close⇒Stop⇒Open

2. Decoding



Press  button for about 8 seconds until the DL6 off, which indicate the memory is deleted.

Section 4.4.2.1

1. Wiring diagram



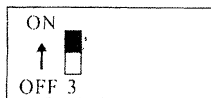
2. Travel limit setting

Start the learning when the gate is closed or opened. Press and hold the button  for 5 seconds, DL5 will flash, then push the transmitter or  button, the gate begins to open and stop when the switch spring reaches travel limit switch. And the PCB will save the setting information and exit the program automatically.

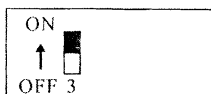


The PCB will exit the program automatically after 30 seconds if there is no further operation.


3. Soft stop setting





Dip switch 3 at ON position is with soft stop function. The gate stops softly before the opening/closing motion is almost finished.



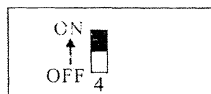
Switch 3 at OFF position is without soft stop function.

Soft stop speed can be adjusted by  button.

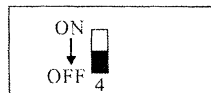
Turn it clockwise, the soft stop length will become longer: 

Turn it anticlockwise, the soft stop length will become shorter: 

4. Limit switch setting

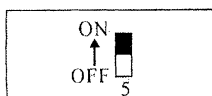


Dip switch 4 at ON position means the travel limit switch normal close.



Dip switch 4 at OFF position means the travel limit switch normal open.
(The default setting is OFF, normal open)

5. Opening / Closing identification




Correct: When the gate is closing, and the photocell beam is interrupted or the gate meets an obstacle, the gate will reverse to open immediately.

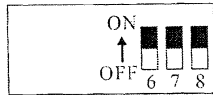
Fault: When the gate is closing, and the photocell beam is interrupted or the gate meets an obstacle, the gate stops immediately or continues to close.

When you find the mistake, please put the dip switch 5 at ON or OFF again to reset the correct position.

6. Regulates motor speed

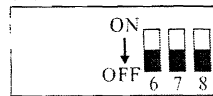
Motor speed can be adjusted by regulating potentiometer. 

7. Automatic closing selection



Dip switch 6, 7 and 8 controls automatic closing time. And the automatic closing time is as following: switch 6=10S, switch 7=20S, switch 8= 40S. Put all the switches to ON position, the automatic closing time is 70S.


When automatic closing function is available, and the gate is on closing position, the opener is going to count down the setting time, and close the door automatically when the count down is finished.





Put all the three switches to OFF, the gate will not close automatically.

8. Protection when meeting resistance

The gate will stop when it meets a resistance in opening, and will reverse to open when in closing. If the force is set too weak, the gate can not work normally, while if the force is set too strong, it may lead serious injury or property damage.

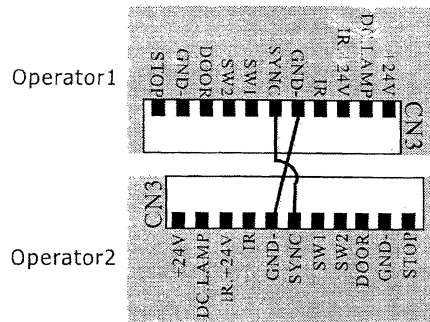
Force can be adjusted by  switch.

Turn it clockwise , the force will become stronger.

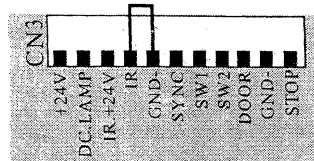
Turn it anticlockwise , the force will become weaker.

9. Connection for double operator

Connect two terminals SYNC and GND on two openers with a wire (2x 0.75m²) as following picture shows, then the two gates can work together in different directions. But the transmitter just need to code with only one opener.



If the photocell is not installed, the following two terminals IR and GND should be connect with a short cable.



Note: Please pay attention to the opening and closing direction for double operator. For detailed information, please see the functions description in point 5.

Technical Specifications

Reference	F-550 24V/DC
Power (Vac)	220-240
Max. Gate weight (kg)	600
Max. Pull force (N)	300
Rated Power (W)	120
Duty Cycle (ED)	80%
Protection Class (IP)	44
Output revolutions (min ⁻¹)	77
Moving Speed (cm/s)	22
Ambient temperature range (°C)	-20~+50

B. Common fault and eliminating method

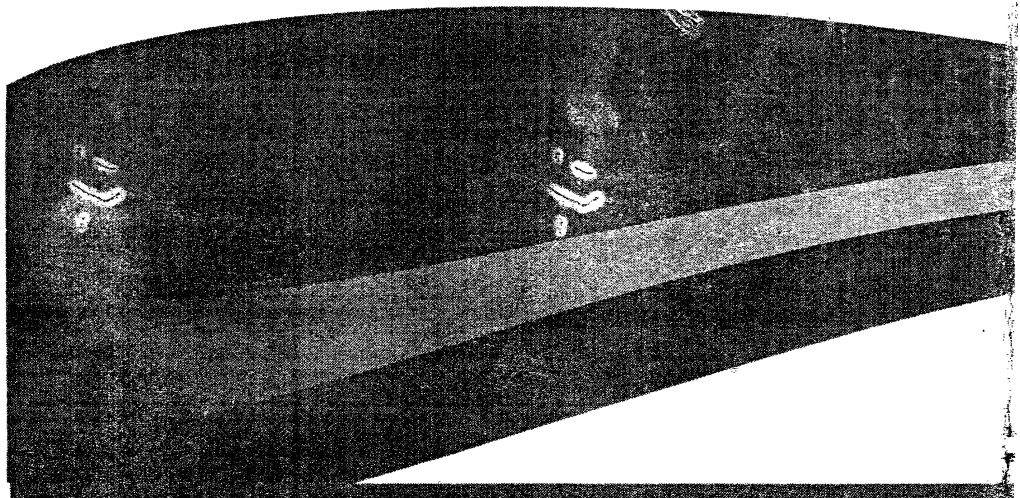
Users need to frequently check whether the sliding gate is moving smoothly, and need to add suitable amount of lubricant on the track.



(NB: To avoid injury, only a professional technician is allowed to deal with the wires and components on the main board.)

Fault	Causes	Solutions
The gate does not move when pressing the transmitter	<ol style="list-style-type: none"> 1.The plug is not securely connected. 2.The clutch is disengaged. 3.Photocell malfunction. 4.The fuse is blown. 5.The memory of the transmitter code has been deleted. 6.The transmitter's battery power is not enough, or without power. 	<ol style="list-style-type: none"> 1.Have the power supply connected securely by a qualified technician. 2.Engage the clutch with the release key. 3.Check the photocell. If the photocell is damaged, replace with a new pair. If no photocells installed, connect the terminal GDN and IR with a short cable. 4.Replace with a new fuse. 5.Recode the transmitter again. 6.Replace the transmitter battery.
When opening or closing the gate, the gate does not stop when the block touches the limit switch.	<ol style="list-style-type: none"> 1.The terminals SW1 and SW2 are connected reversely. 2.The motor wires are connected reversely. 	<ol style="list-style-type: none"> 1.Exchange the connection of terminals SW1 and SW2 2.Exchange the connection of motor wires.
The gate does not reverse when meeting obstacles.	<ol style="list-style-type: none"> 1.The gate closing direction has been set reversely. 2.The force is set at too high level. 	<ol style="list-style-type: none"> 1.Push switch 5 on SW1 to the other position. 2.Turn the force setting button anti-clockwise to adjust the force to a proper level.
The gate opens automatically during the closing procedure.	The force has been set at a too low level.	Turn the force setting button clockwise to adjust the force to a proper level.
The gate opens automatically when the door is completely closed.	The gate closing direction has been set reversely and the automatic closing gate function has been set on.	Push switch 5 on SW1 to the other position.
The gate can not open completely.	The user control the gate by pedestrian access button in error.	Control the gate by pressing full opening/closing button.

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V&S Roller Doors Pty Ltd

20 East Street AIRPORT WEST VIC 3042

TEL: (03) 93386698