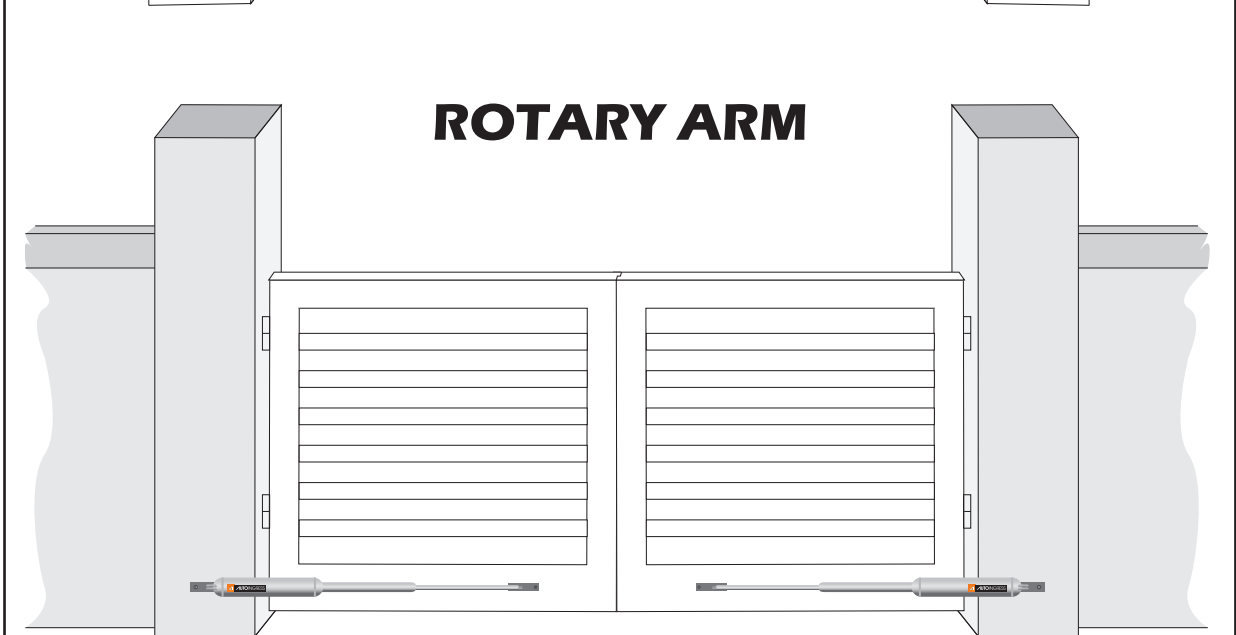
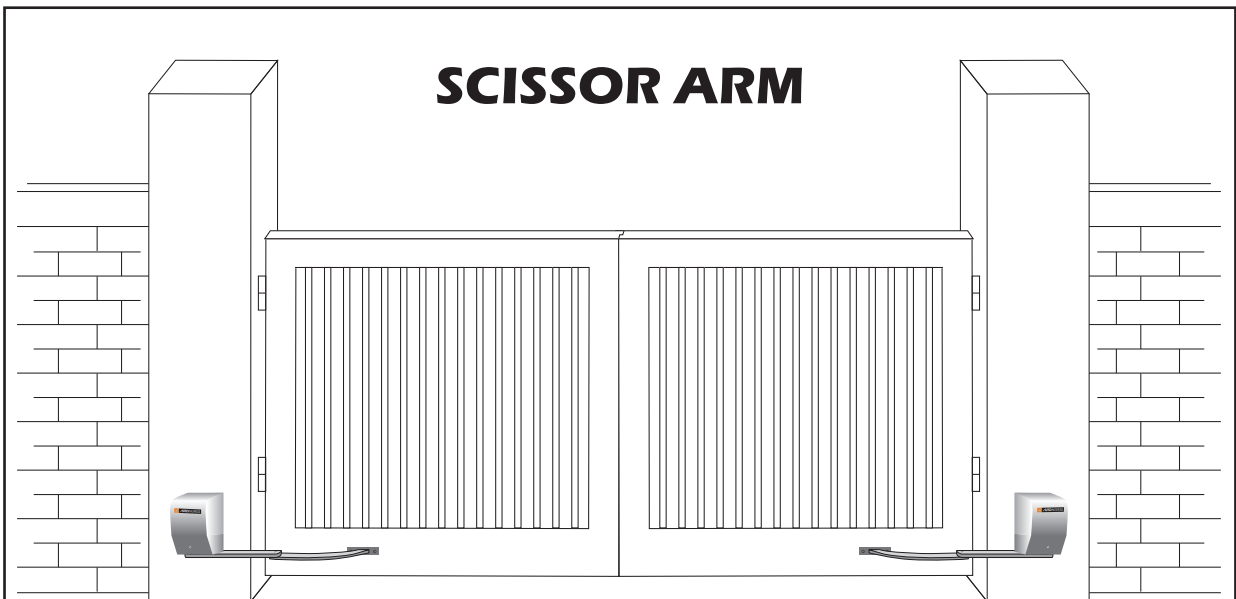




AUTOMATIC SENSOR DOORS

Installation Manual

Swing Gate Operator



Automatic Entrance Solution Provider

DESIGN | MANUFACTURE | SALES | SERVICE

24 x 7 Service Support

+91 755 00 22 007 | +91 733 88 52 901 – 905

IMPORTANT SAFETY MESSAGE

Thank you for your purchase of our automatic gate equipment.

Your automatic gate operator has been designed and manufactured to comply with stringent safety requirements for compliance to the Australian standard.

It is essential that you make yourself familiar with and at least once a week or more regularly check the safety features of the gate to ensure safety of the users. If you find that the gate operator is unsafe then it must be rendered to a safe condition by either leaving it fully open or fully shut.

Always engage Auto Ingress authorized service technician for periodic inspections and maintenance of this equipment.

We recommend services every quarter of the year to ensure safety of users and longevity of operator life cycle.

In accordance with the safety and maintenance requirements of this equipment, Auto Ingress has developed a set of procedures to ensure optimum safety and long term reliability of this installation.

Safety Precautions

- Wrong operation may result in injury or even death to the user.
- Wrong operation may result in injury or physical damage to the operator.
- This operator needs to be connected with stabilised and uninterrupted power supply for safety of micro-controller unit and the operator.
- Installation and adjustment must be carried out according to the Installation Manual. Carelessness in installation and adjustment may result in accidents such as fire, electric shocks or fall off.
- During the installation do not allow the pedestrians to pass through the automatic gate or approach the work site. Because any tools or parts fall off during the installation may result in injury to the pedestrians.
- Don't remodel the parts , otherwise fire , electric shocks or fall may occur.
- Don't use the power beyond the stipulated voltage or frequency, otherwise fire or electric shocks may occur.
- Do fix up auxiliary safety beam sensor to ensure the detecting range for the walking area of the gate leaf, otherwise the passers-by may be collided or squeezed by the gate leaf, causing injury.



Caution

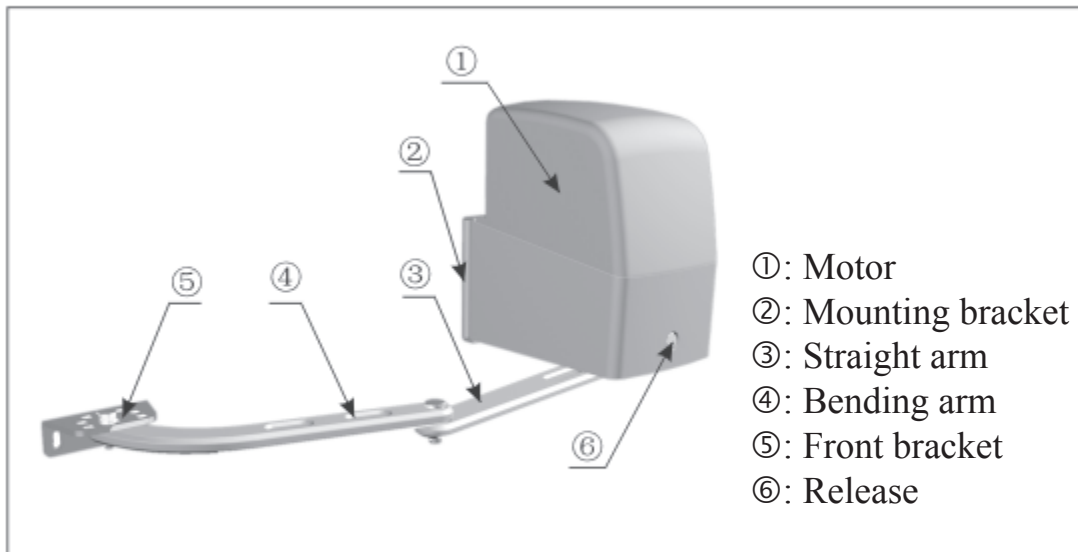
- CAUTION! For personal safety, it is important to follow all the instructions carefully. Incorrect installation or misuse of the product may cause serious harm to people.
- Don't use the gate in a place subject to dampness, vibration or corrosive gas, otherwise it may cause accidents such as fire , electric shocks or fall.
- Make sure that suitable space be available after the gate is opened, otherwise user's fingers may be squeezed by the gate leaf.
- Don 't cut off power when the gate is in operation , otherwise it may result in accident to passers-by.
- Please stick the adhesive sticker on the gate leaf firmly . If not, it may cause injury to the passer-by who didn't pay attention to the gate leaf.
- Don't connect an external electric device to the micro controller as it may cause fire .
- Keep the instructions in a safe place for future reference.
- This product was designed and manufactured strictly for the use indicated in this document. Any other usage not expressly indicated in this Document, may damage the product and/or be a source of danger.
- Do not install the machine in an area subject to explosion hazard. Inflammable gasses or fumes are a serious safety hazard.
- Before carrying out any work on the system, turn off the electricity supply.
- Do not make any alterations to the components of the automatic operator.
- Do not allow children or other people to stand near any moving part of the gate while in operation.
- Keep transmitters away from children to prevent the machine from being activated accidentally.
- Disconnect the supply when cleaning or other maintenance is being carried out, if the appliance is automatically controlled .
- The electrical cord plug must plug in ingate outlet or waterproof cover outlet.

Other Precautions

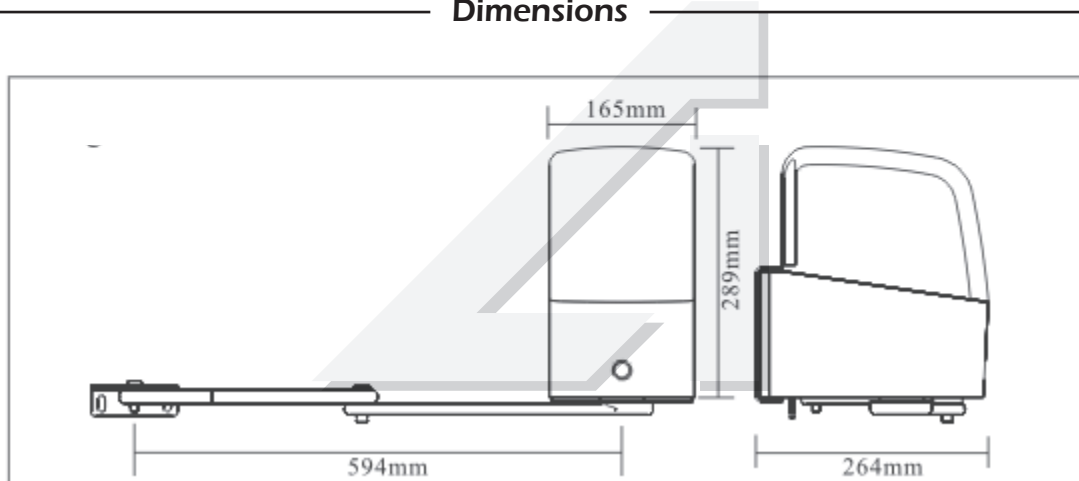
- Don't use a gate leaf that exceeds the specified weight, otherwise it will cause failure.
- If you chose the electromagnetic lock, don't use it in an environment beyond an ambient temperature, otherwise it will cause malfunction.
- The graphic drawings and specifications in this manul are for reference only. You should rely upon real objects. Product designes are subject to change without notice .



Scissor Arm Installation



Dimensions

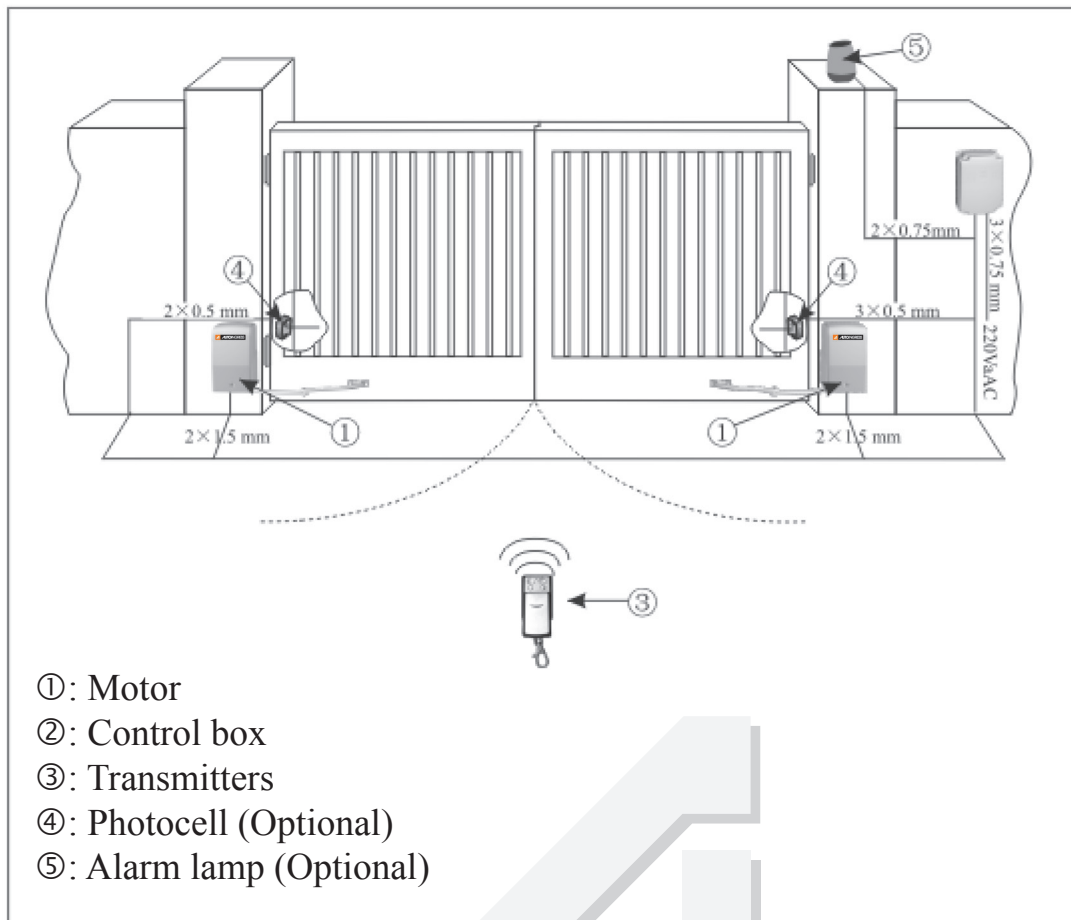


Installation

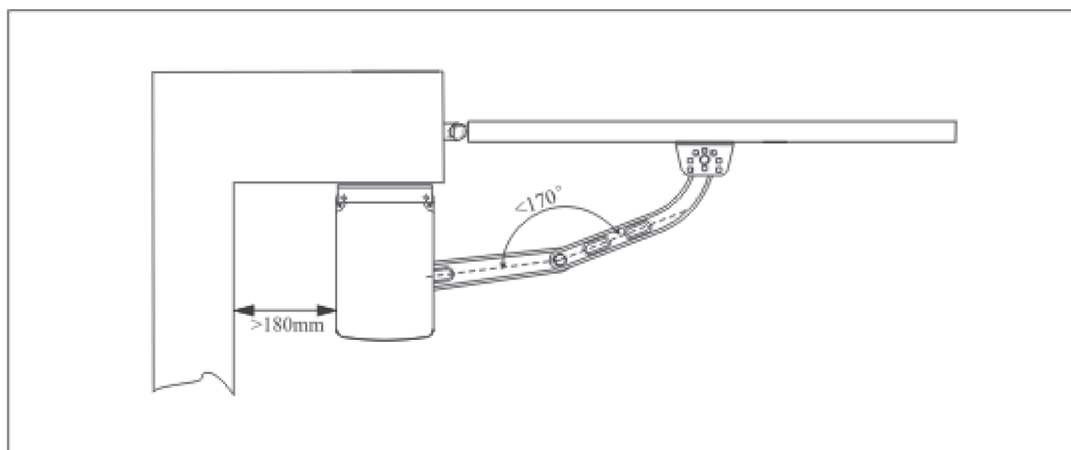
- Before using the machine, check power supply, grounding, voltage, etc.
- Check whether it is connected according to the demand of wiring diagram.
- The gate should be pulled easily and smoothly manually when the operator is fitted and the gears are released.
- The product must be installed by Auto Ingress authorised technician.



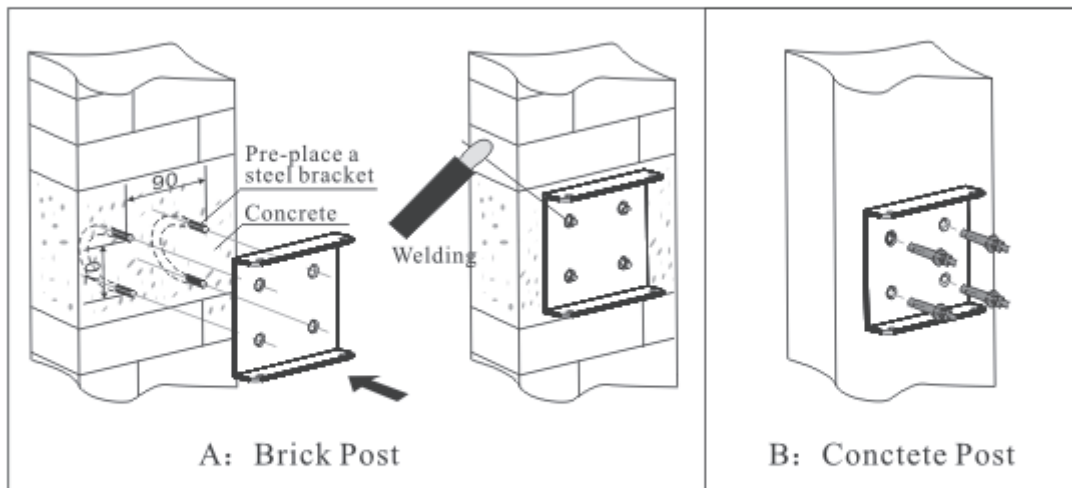
Standard installation layout



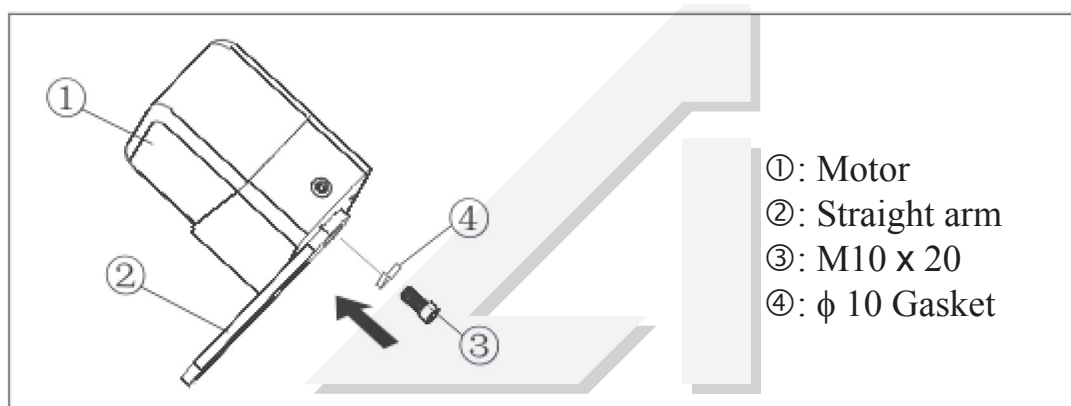
Installation dimensions



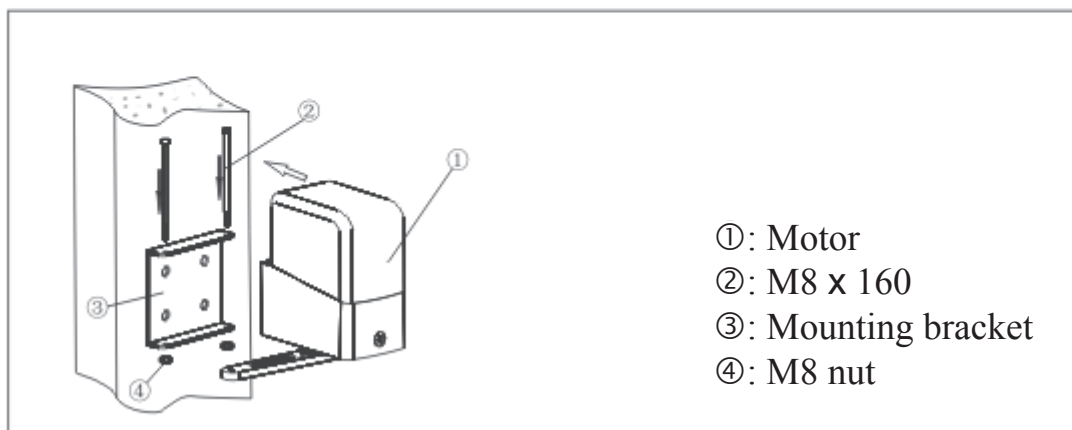
Fix the mounting bracket



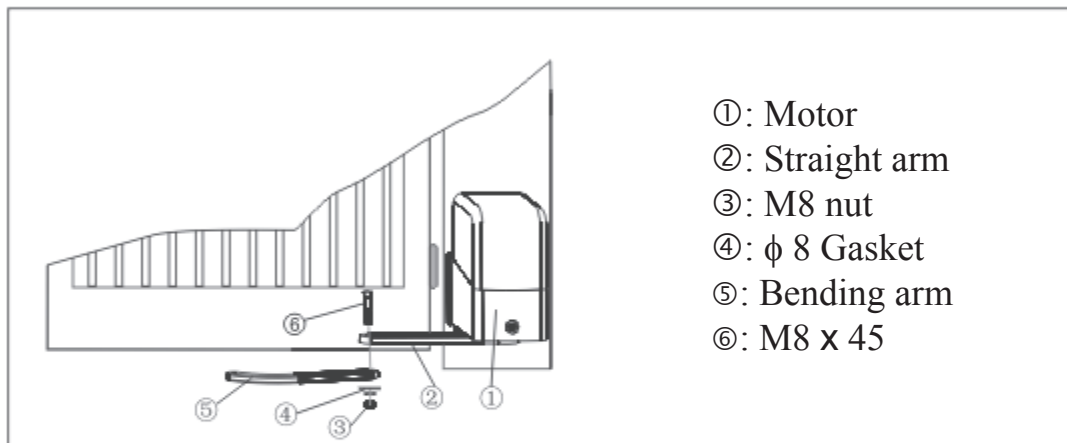
Fix the straight arm



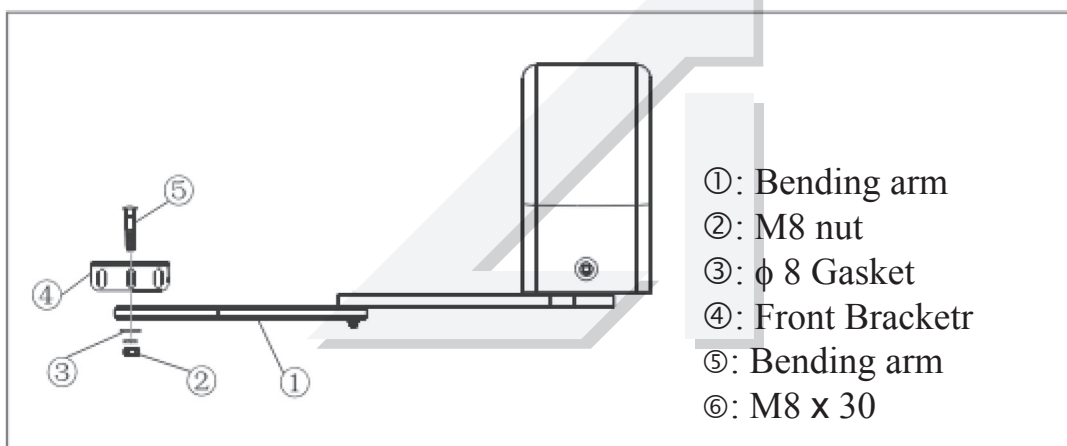
Fix the Motor's



Connect the bending arm



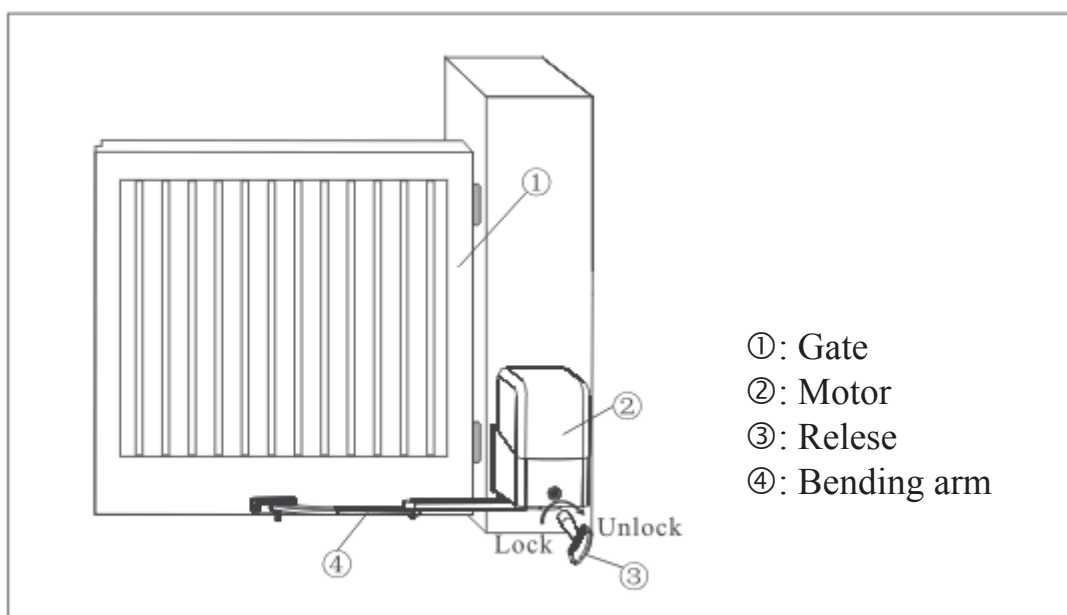
Connect the Front Bracket



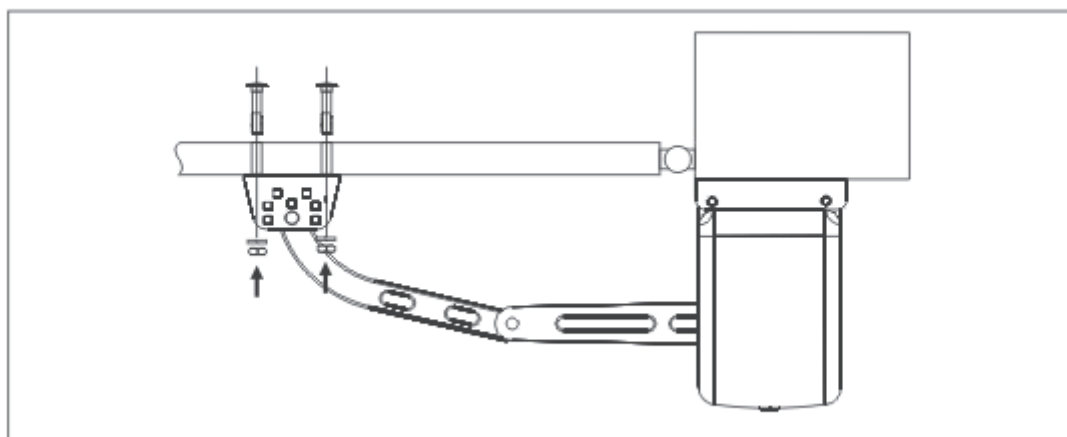
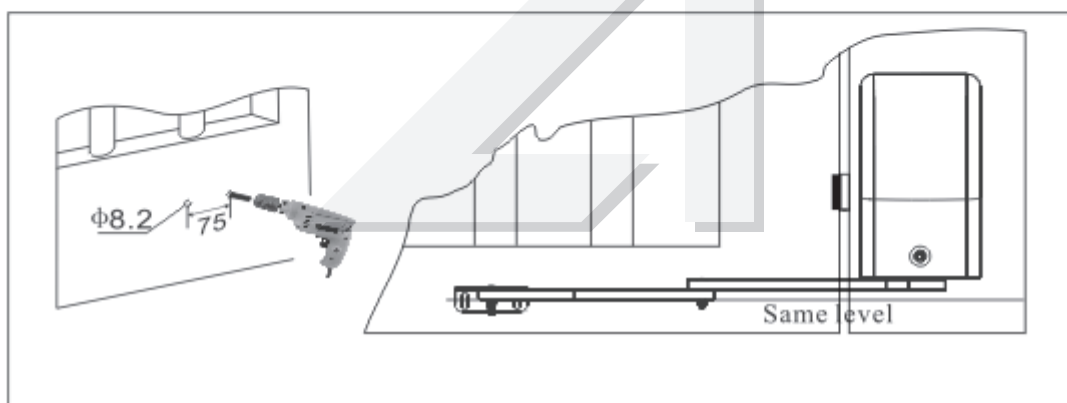
After installation, ensure that the mechanism is properly adjusted and that the protection system and any manual release function correctly.



How to release



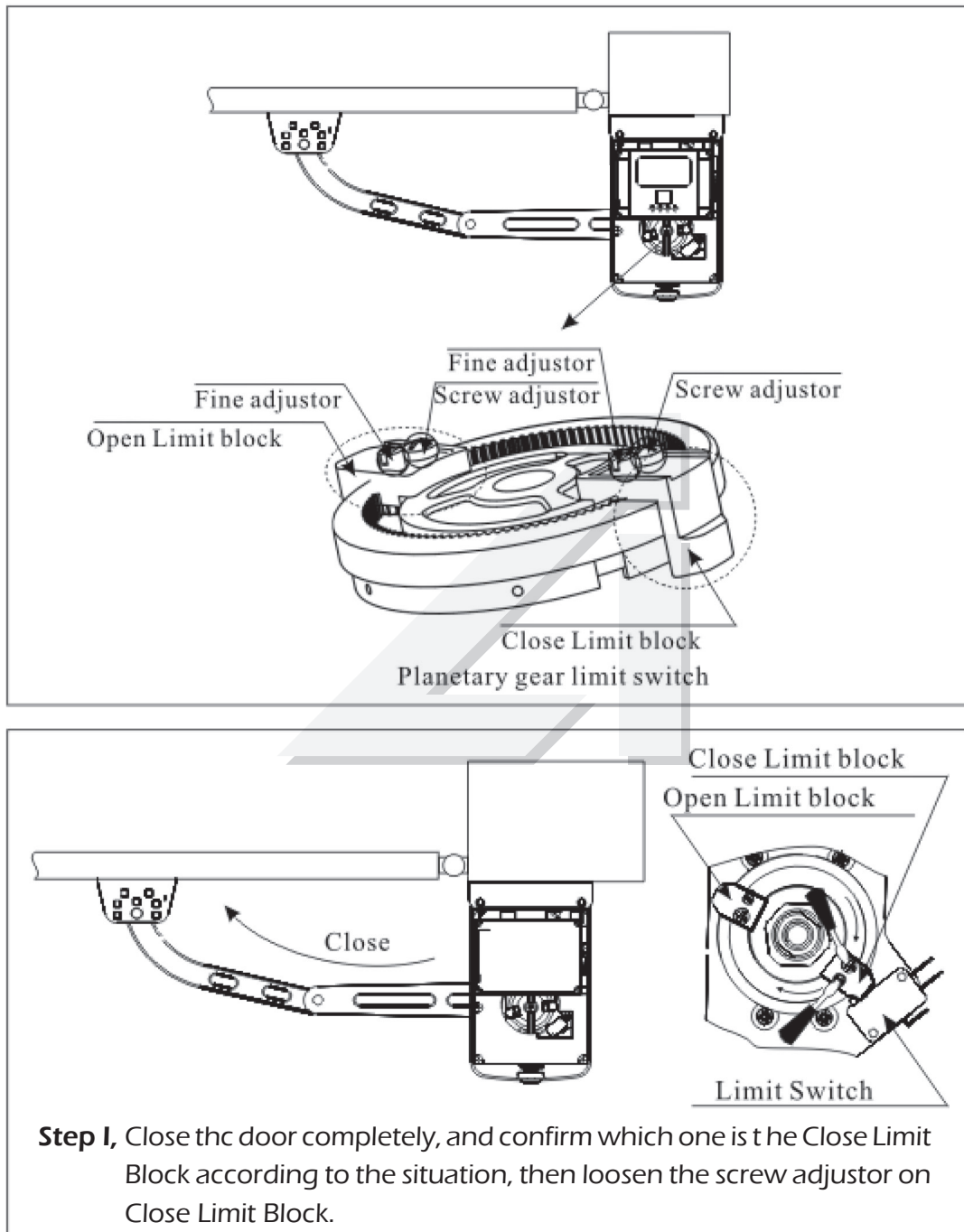
Fix the Front Bracket



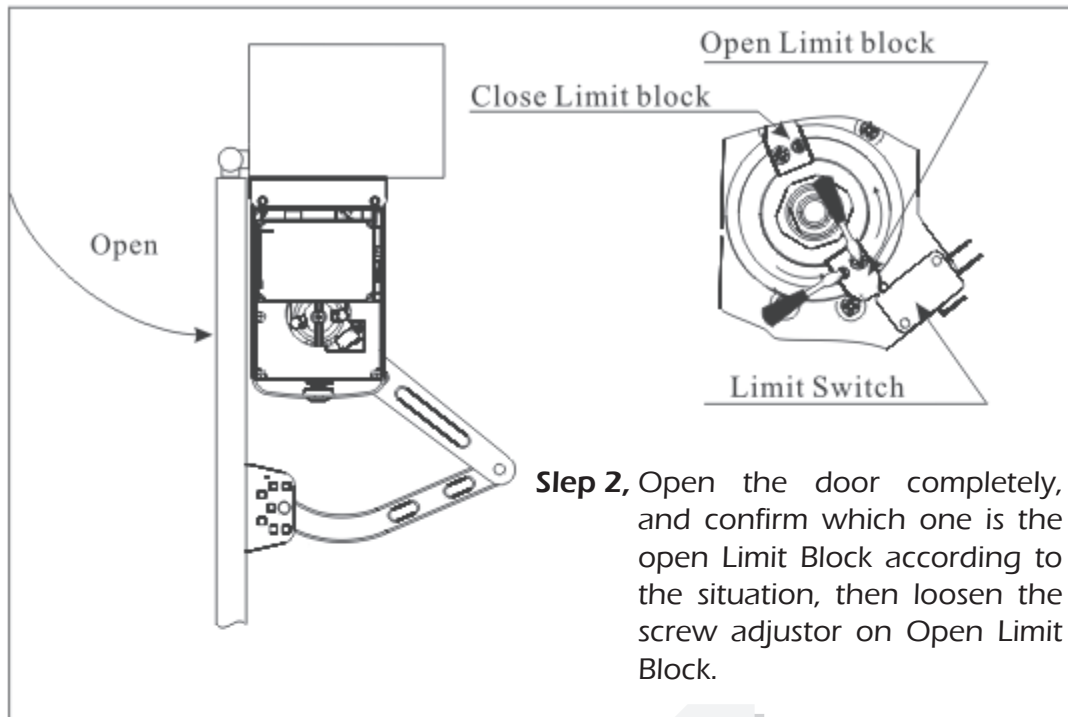
Limit switch adjustment

Attention : If the operator move in an opposition way, you should change the connection as follow:

The billowing is a Right motor's limit switch adjustment, Before adjusting, release the gears, and open the gate manually. For left motor, all direction, are contrary.



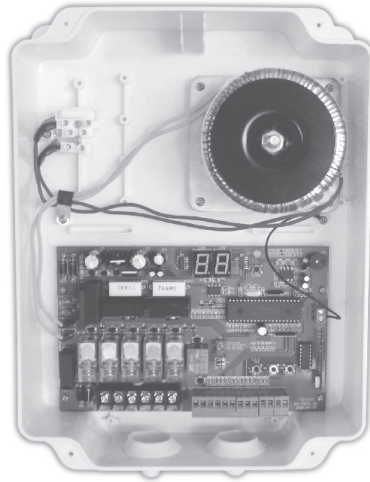
Limit switch adjustment



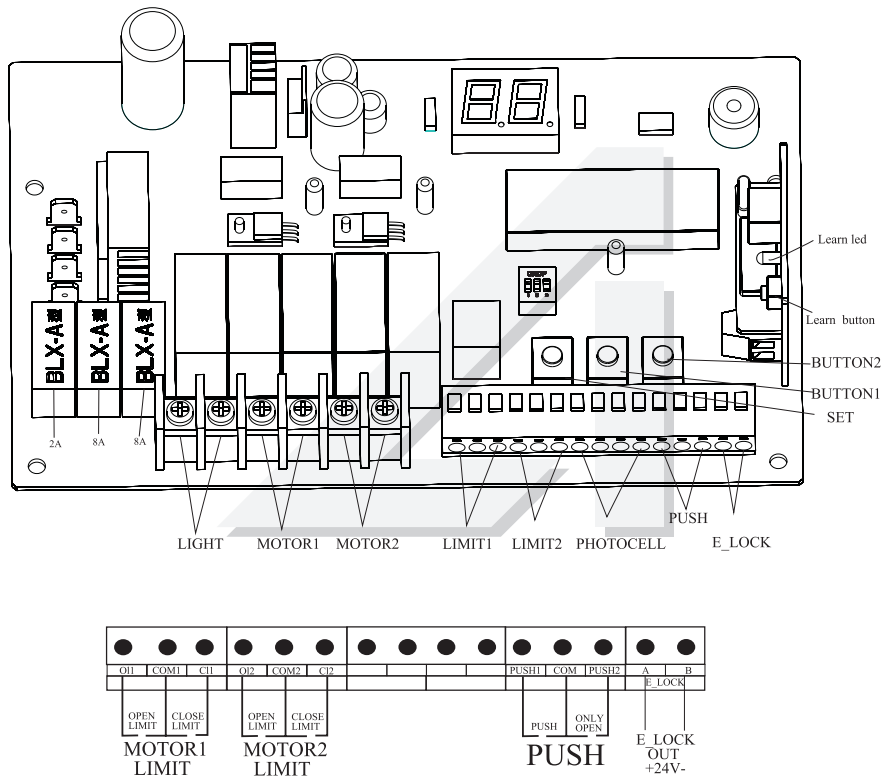
Step 3, Couple the gears, turn on the power adjust more accurately by "Fine adjustor", then tighten the "Screw adjustor"



Control Unit

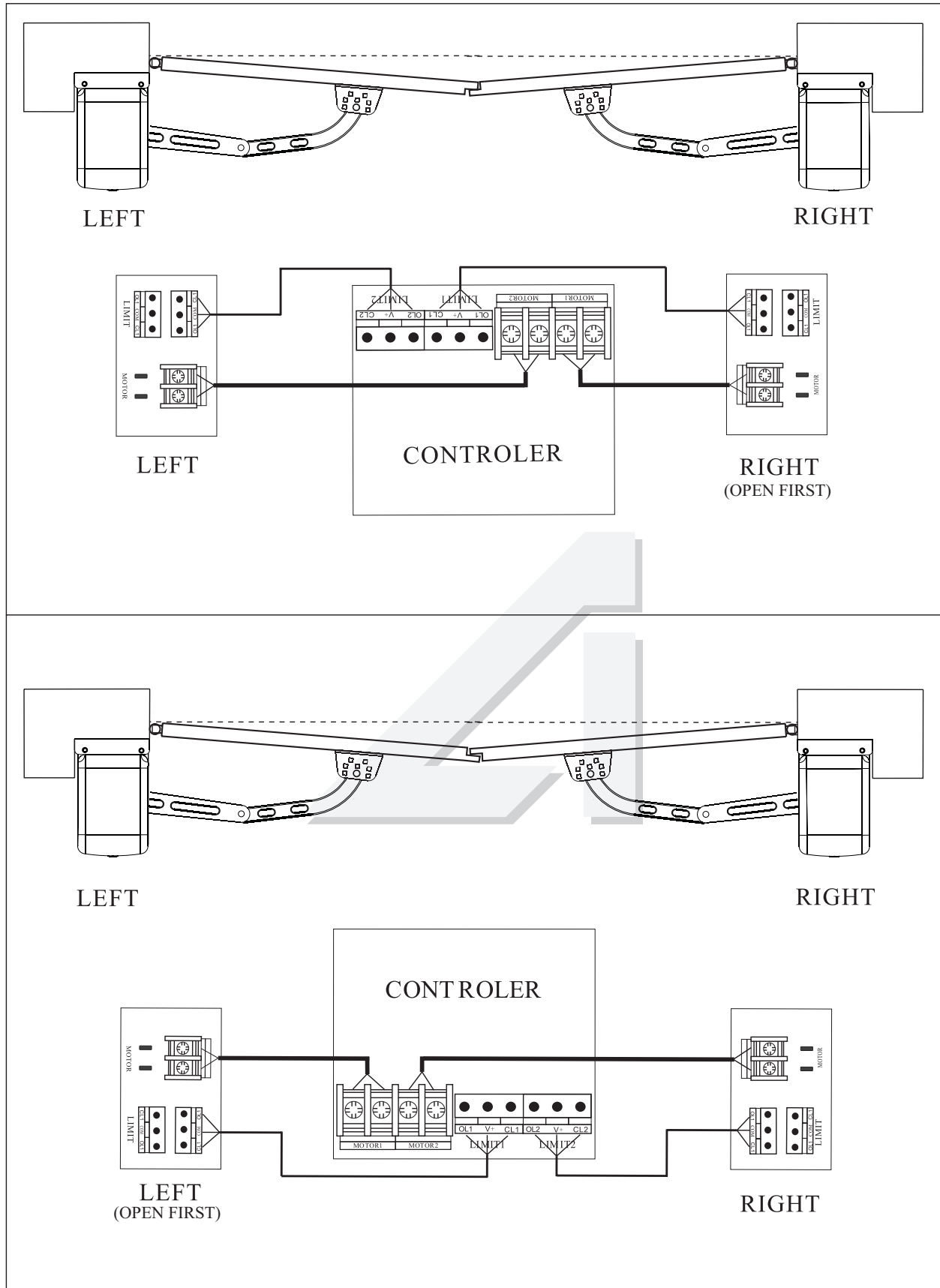


Wiring Diagram

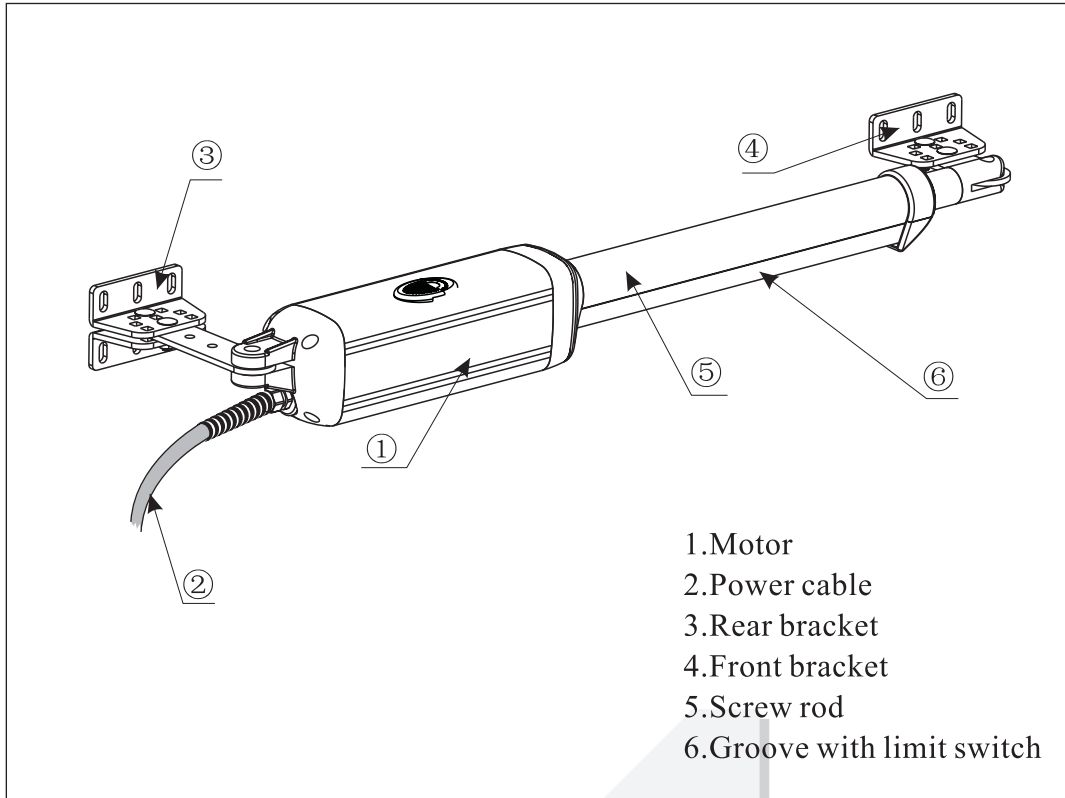


- (1) "LIGHT" for a Flash lamp, 24VDC.
- (2) "MOTOR 1", "MOTOR 2" for 2 motors 24VDC.
- (3) "LIMIT 1", "LIMIT 2" for the magnetic limit switch on motor 1, motor 2.
(It is useful only for the motors with magnetic limit switch.)
- (4) "PHOTOCELL" for infrared protect device.
- (5) "BUTTON" for wall switch. "PUSH 1" control double-leaf gate, step-by-step "PUSH 2" control single leaf gate which must be the priority of opening one step-by-step.
- (6) "E_LOCK" for electronic lock, It can be connected with electronic lock which power is 24VDC.
- (7) **Connection of motor for single-leaf** : If the gate is only 1 leaf, the motor must be connected with "Motor1", and the "dip 2" on "S5" must be OFF.
- (8) **Connection of motor for double-leaf** : If the gate is two leaves, first, it must be confirmed which one leaf is the priority opening one. Then, the priority opening leaf must be connected with "**MOTOR1**", the other one is connected with "MOTOR2". And the "dip2" on "S5" must be "ON".

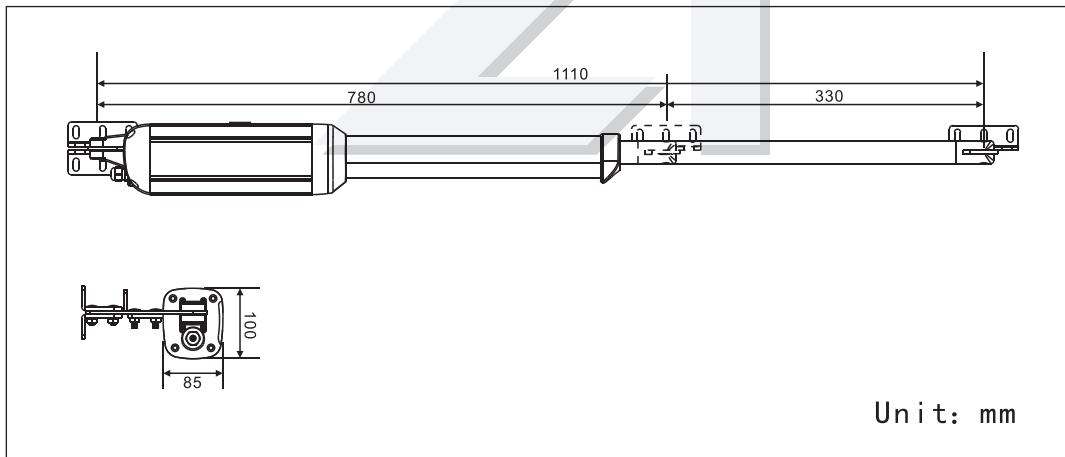




Rotary Arm Instalition



Dimensions

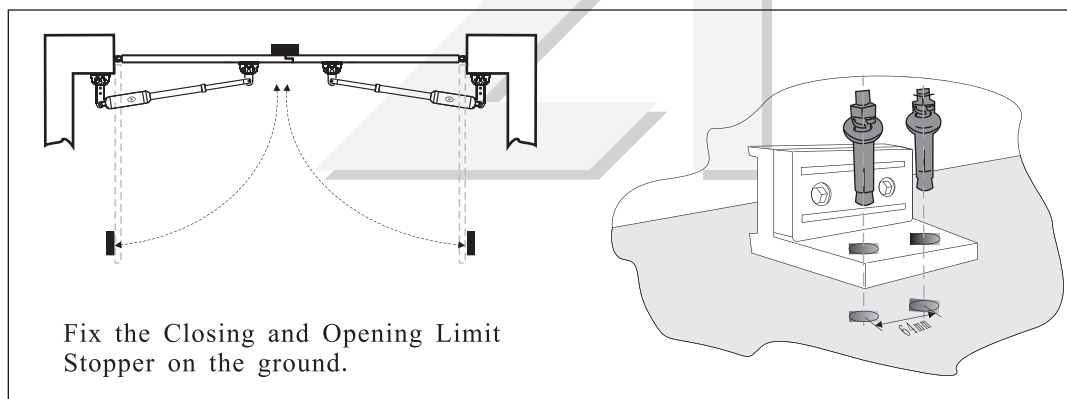
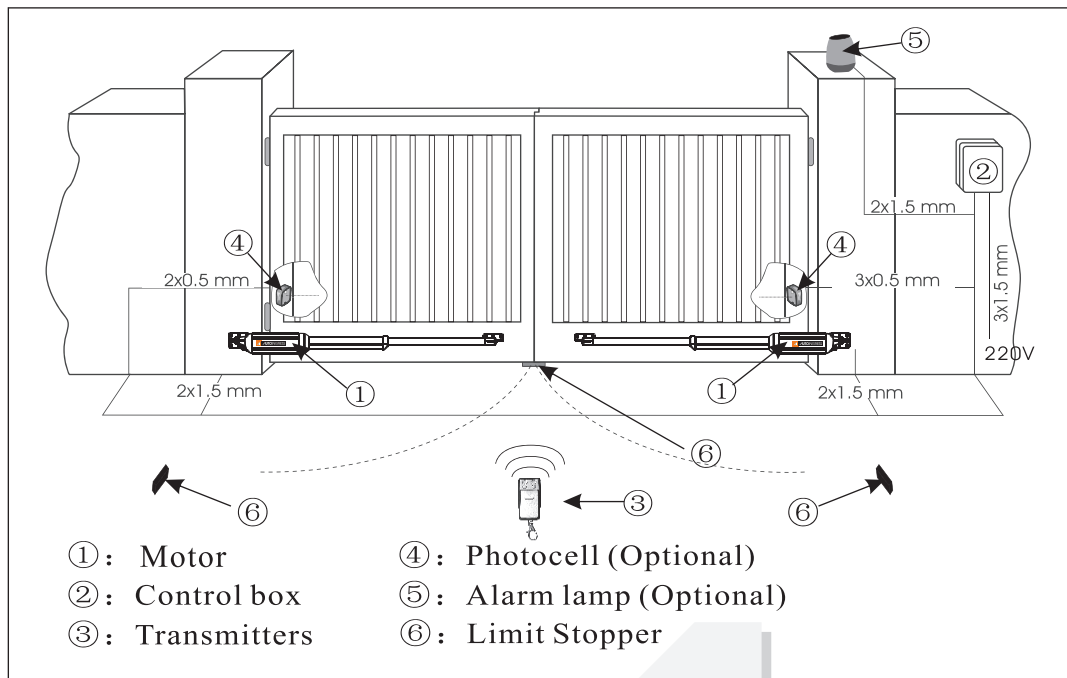


Installation

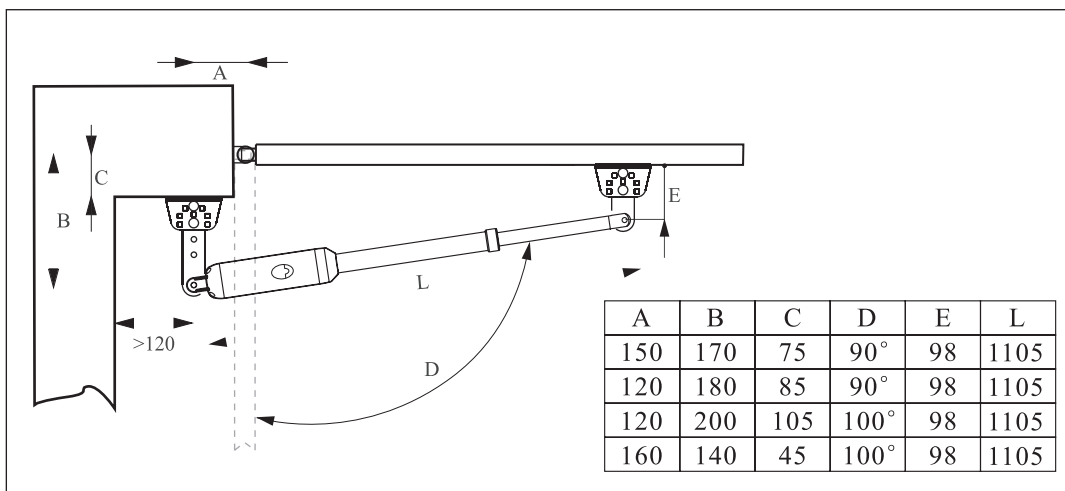
- Before using the machine, check power supply, grounding, voltage, etc.
- Check whether it is connected according to the demand of wiring diagram.
- The gate should be pulled easily and smoothly manually when the operator is fitted and the gears are released.
- The product must be installed by Auto Ingress authorised technician.



Standard installation layout

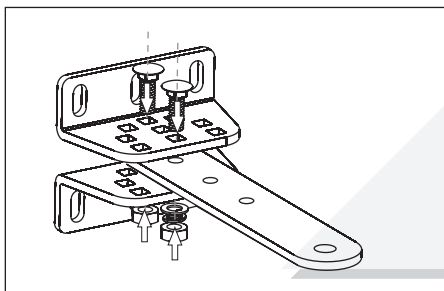


Installation dimensions

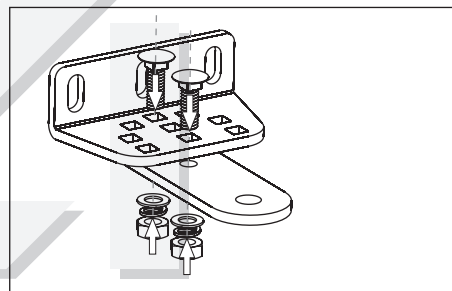


Installation

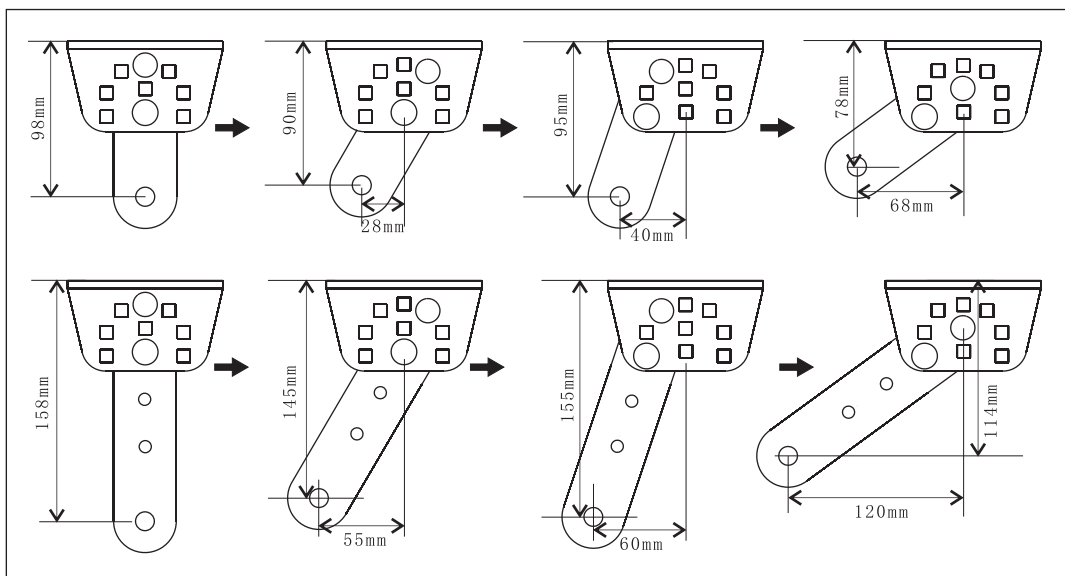
A. Connect the Rear Bracket



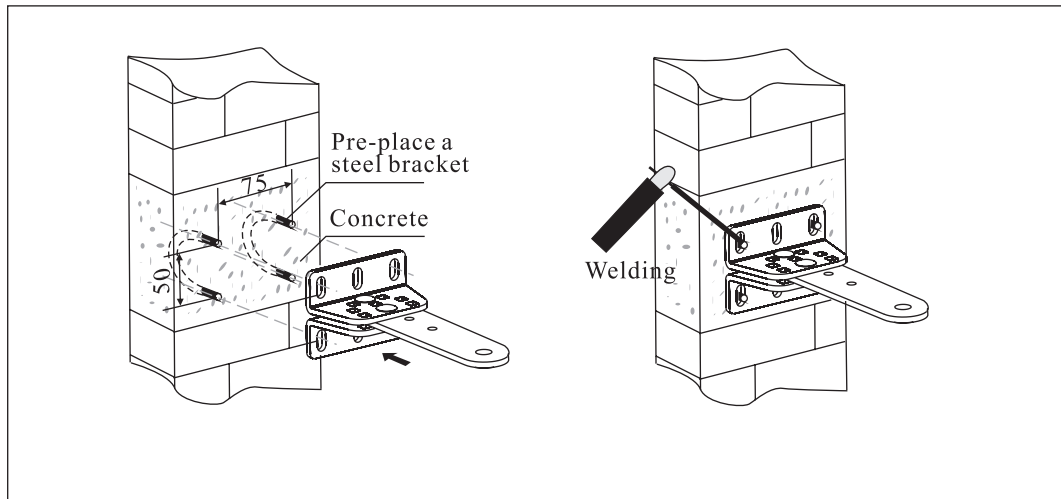
B. Connect the Front Bracket



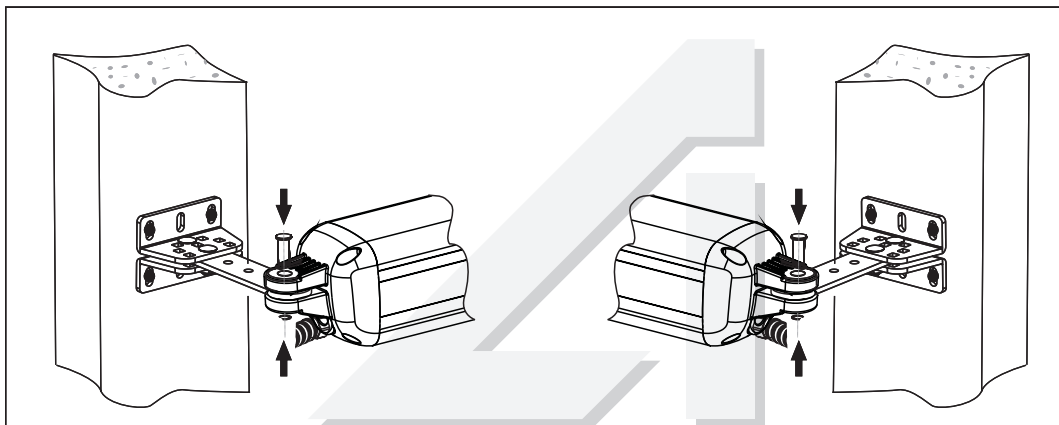
The Angle of connection can be different



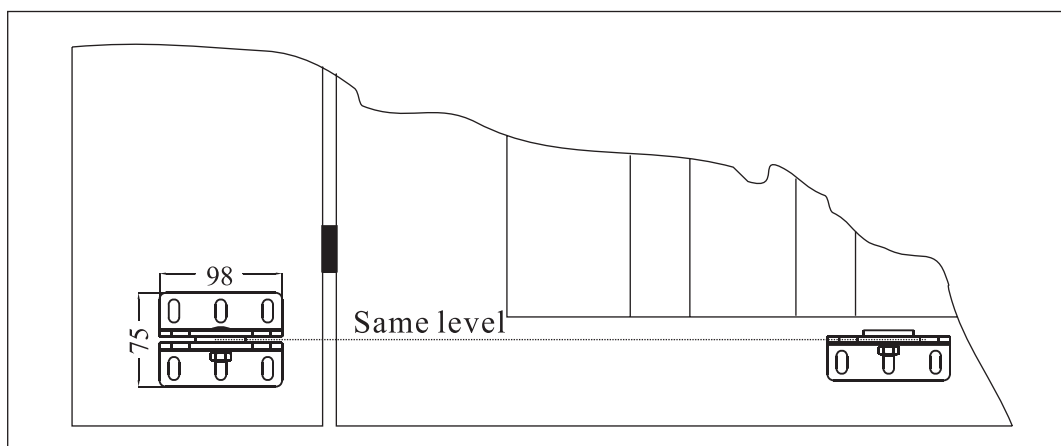
C. Fix the Rear Bracket



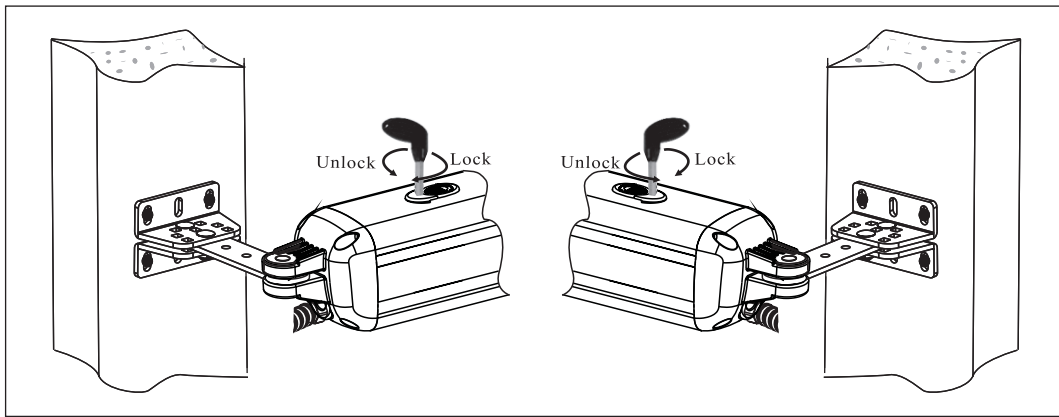
D. Fix the Motor's



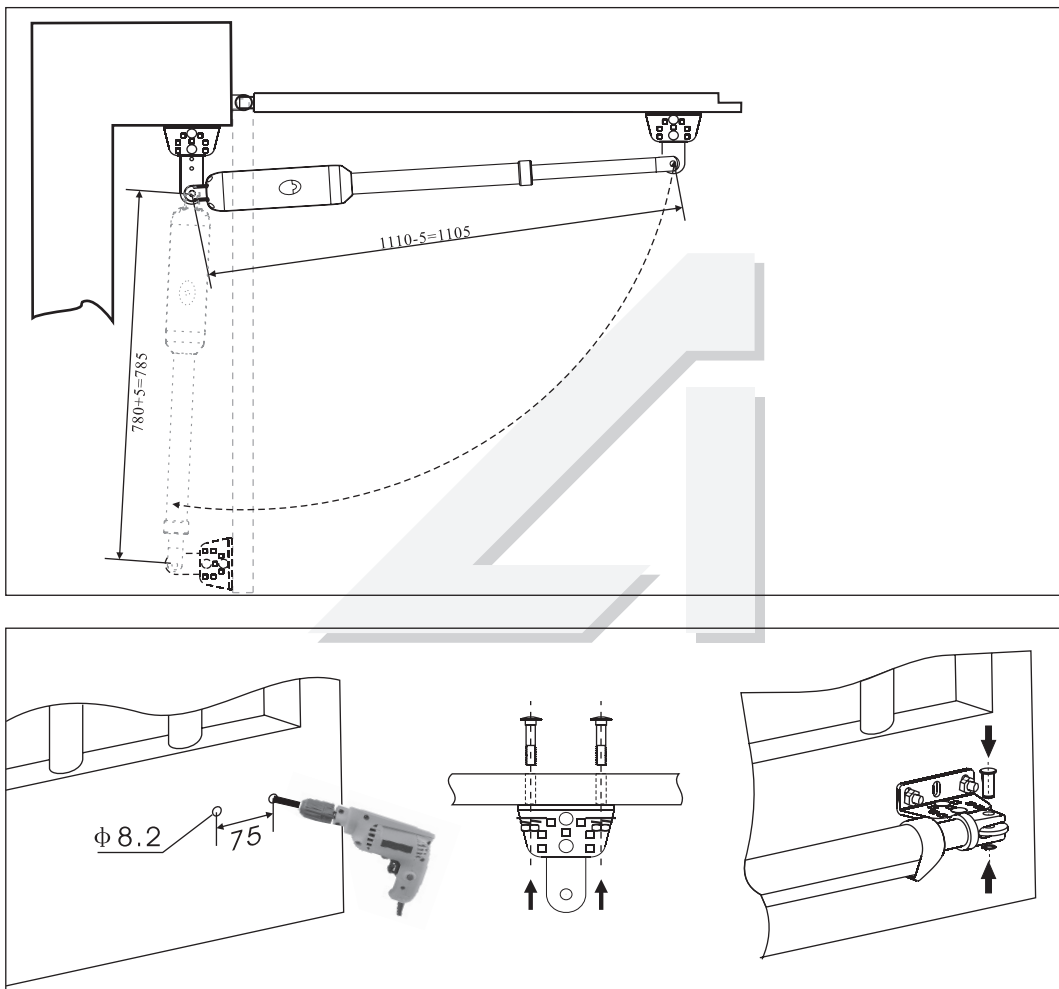
E. Insure the Front and Rear Brackets on the same level



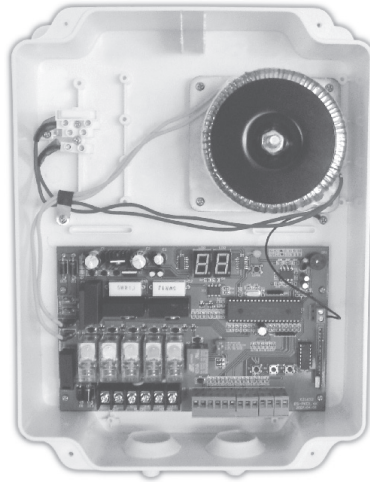
F. How to release



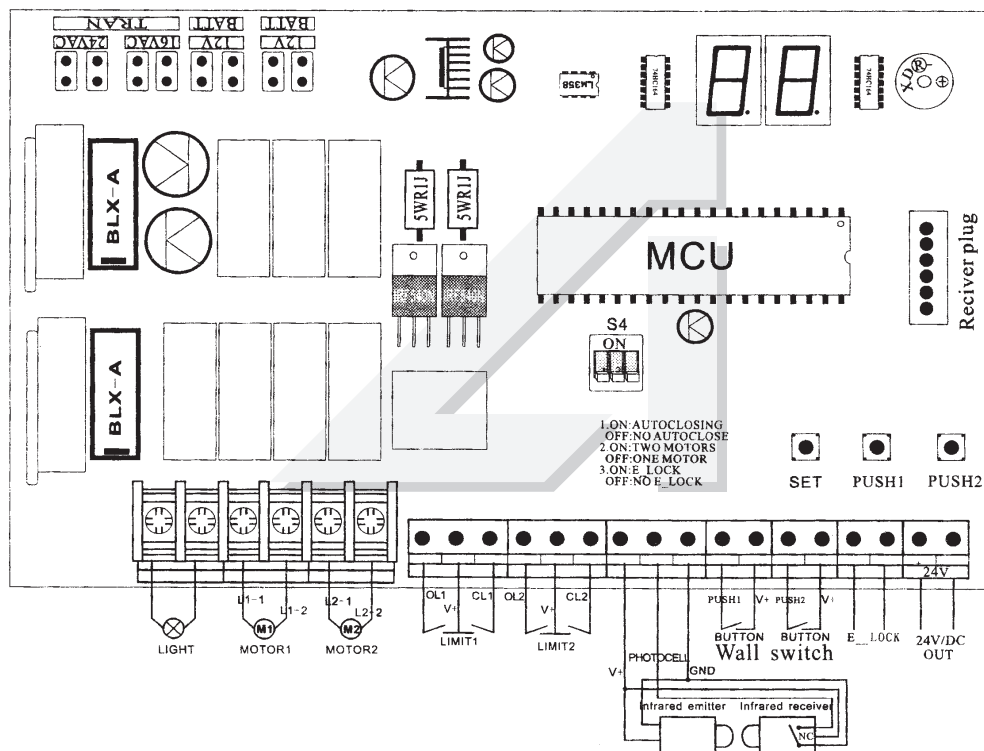
G. Fix the Front Bracket



Control Unit

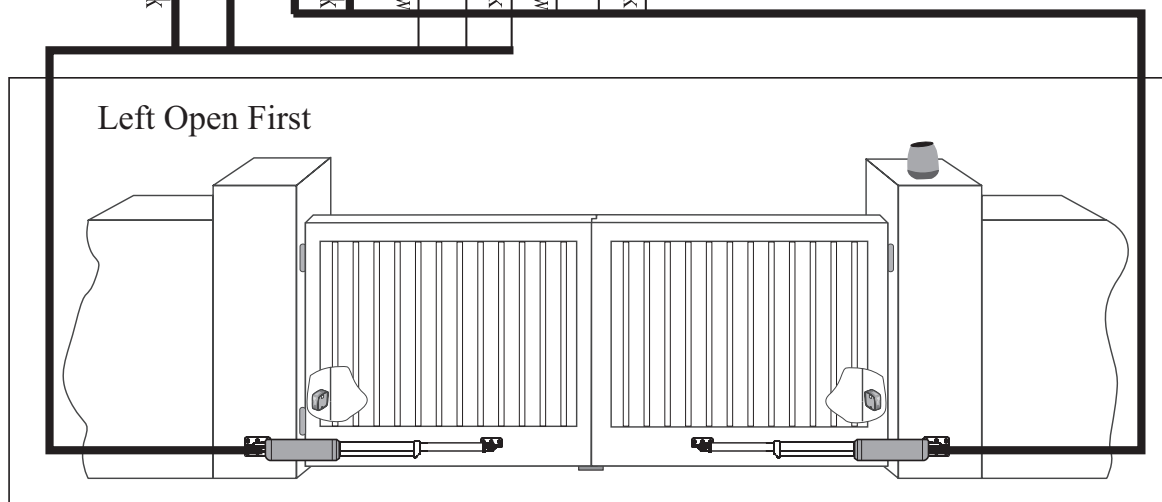
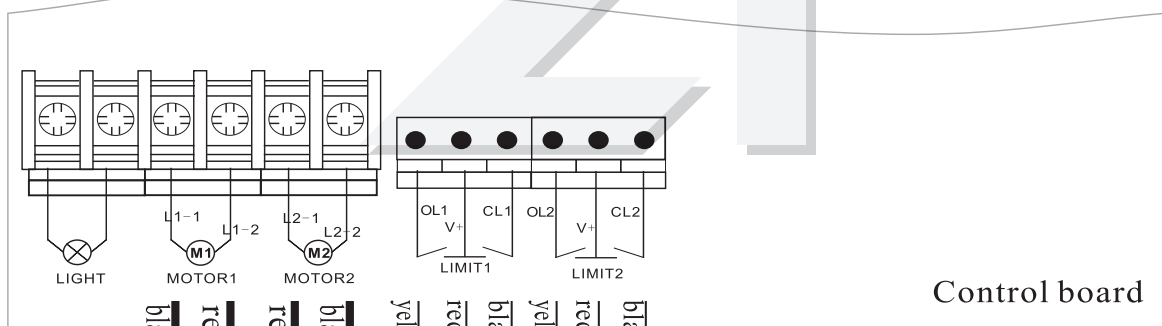
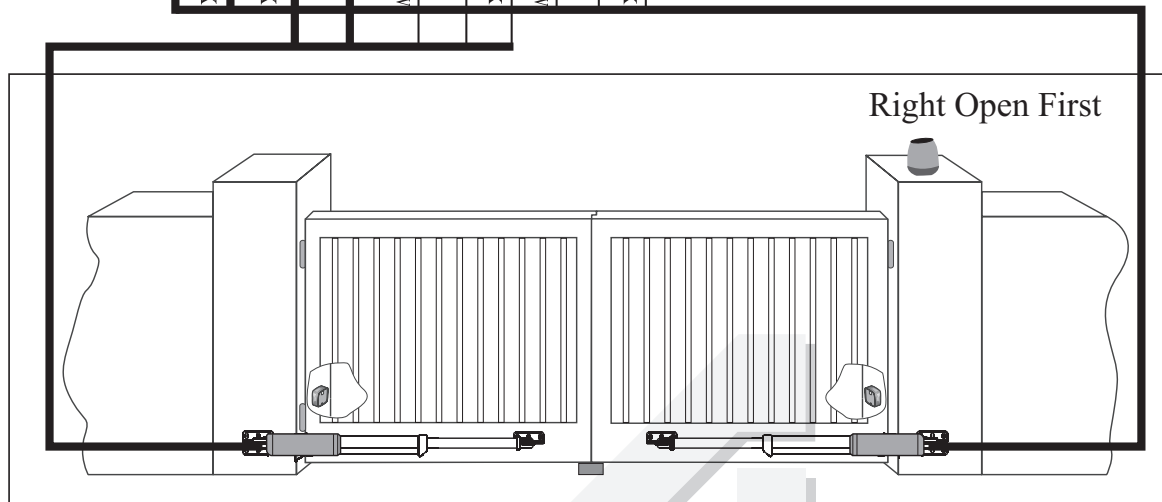
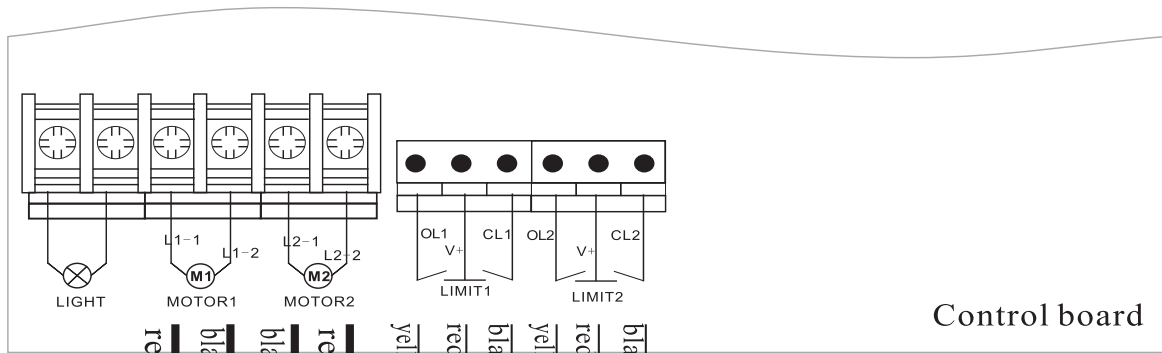


Wiring Diagram

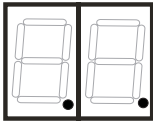
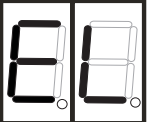
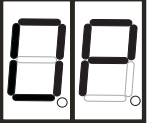
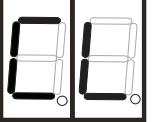
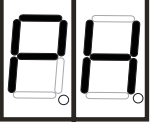
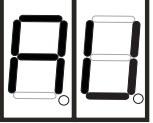
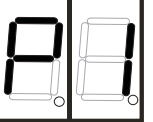
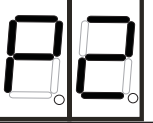
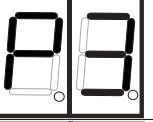
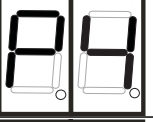
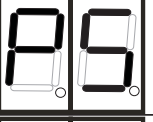
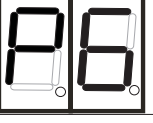


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(It is useful only for the motors with magnetic limit switch.)
- (4) "PHOTOCELL" for infrared protect device.
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- (6) "E_LOCK" for electric lock, It can be connected with electric lock which power is 24VAC or 24VDC.
- (7) **Connection of motor for single-leaf** : If the gate is 1 leaf, first, it must be connected with "Motor1", and the "dip 2" on "S4" must be OFF.
- (8) **Connection of motor for double-leaf** : If the gate is the priority opening leaf must be connected with "MOTOR1", the other one is connected with "MOTOR2". And the "dip2" on "S4" must be "ON".





Meaning of display

	Normal display
	ELECTRIC-LOCK working
	Opening
	Closing
	1. Photocell is not connected properly. 2. Photocell team is block off. 3. Photocell is broken.
	Auto-close timing
	Running time
	Slow speed start time of motor
	Force of motor 1
	Force of motor 2
	Delay time between 2 motors operating
	Auto-close time



Scissor Arm Specifications

Description	DC MOTOR
Power supply	220V±10% 50HZ
Transformer	220V/24V/120W
Power of Motor	24V DC 40W
Current	2A
Max leaf length	3m
Working environment	-20°C~55°C
IP Rating	IP 44
Protection fuse	8A X 2
24V out protect fuse	2A
Continual run time	5min

Rotary Arm Specifications

Description	DC MOTOR
Power supply	220V±10% 50HZ
Transformer	220V/24V/120W
Power of Motor	24V DC 40W
Current	2A
Max leaf length	3m
Working environment	-20°C~55°C
IP Rating	IP 54
16V protection fuse	10A
24V protection fuse	10A
Continual run time	5min

Important Notes :

1. Any unauthorised connection to the Micro Controller will make the Warranty invalid
2. If the installation is not carried out as per Auto Ingress recommended guideline, Warranty is void
3. For activation of the operator by any other mode or connection to other external device not provided in the manual, please contact our technician team
4. We strongly recommend regular maintenance of the operator for its optimum performance
5. Auto Ingress reserves the right to change the design and specification without prior notification



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Indian Office

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