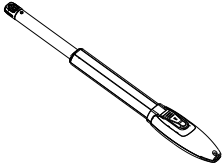


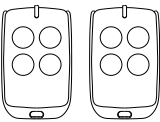
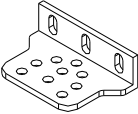
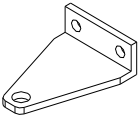
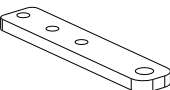
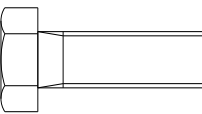
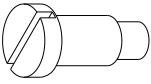
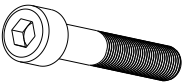

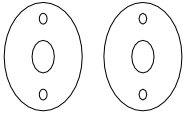
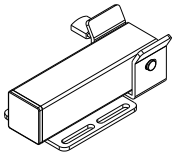


VERO 400 DC

SWING GATE MOTOR

Packing List

No.	Picture	Name	Quantity
1		Main machine	2
2		Control box	1
3		Manual release key	2
4		Remote control	2
5		Wall bracket	4
6		Front mounting bracket	2
7		Connecting bracket	2
8		Screw M8X25	4
9		Mounting screw (short)	2
10		Screw M8x45	2
11		Self-locking Nut M8	8

1		Infrared sensor	1
4		Electric lock	1


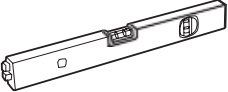

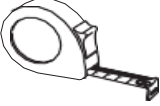

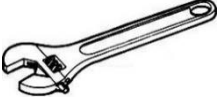

Technical Characteristics


Model	VERO 400 DC
Power supply	220V/50Hz;110V/60Hz
Motor power	50W
Gate moving speed	18~22s/ 90°
Max.single-leaf weight	300kg
Max.single-leaf length	2.5M
Max.force	2600N
Max.piston stroke	32cm
Storage battery (optional)	DC24V(4.5Ah or 9Ah)
Noise	≤58dB
Recording of up remote controls	300 pcs
Remote frequency	433.92 MHz
Working temperature	-20°C - +70°C
Package weight	14kg

Installation

Vero 400 DC swing gate opener is applicable to single leaf gate weight less than 300kg, and the length shorter than 2.5m. The drive mode adopts planetary transmission to combine with the screw rod transmission. This gate opener must be installed inside the enclosure or yard for protection.

Tools Needed for Standard Installation


	No.6 Allen Wrench		Spirit Level
	Slotted Screwdriver		Tape
	Phillips Screwdriver		Adjustable Wrench X 2
	Hatching Pen		

 **Note:** the cables must be suitable for outdoor use.

Cable List

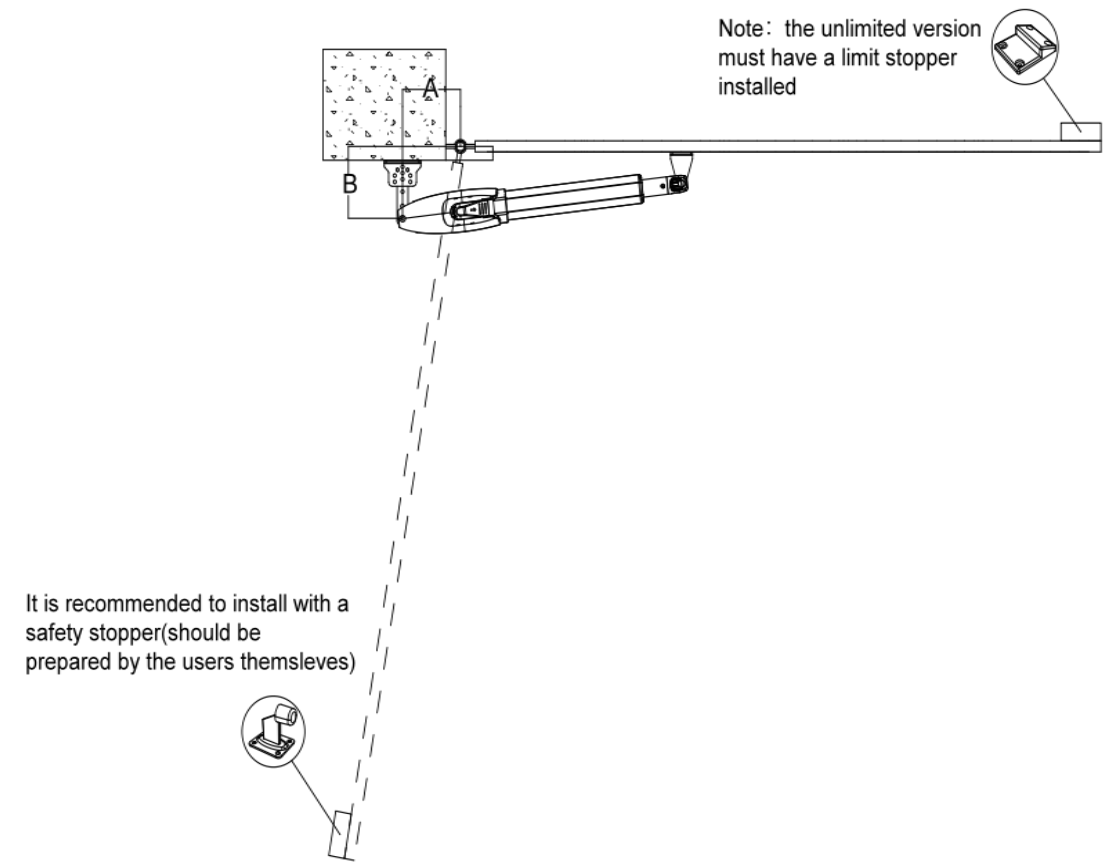
	Cable Application	Cable Material	Max. Length
1	Cable of 220V controlbox's power supply	3×2.5mm ² (>30m) 3×1.5mm ² (<30m)	Unlimited
2	Cable of gate opener's power supply	2×1.5mm ²	15m
3	Cable of infrared sensor	2×0.5mm ²	10m
4	Cable of alarm lamp	2×0.5mm ²	10m
5	Cable of electric lock	2×0.5mm ²	10m
6	Extension cable of storage battery	2×1.5mm ²	10m
7	Cable of solar power	2×1.5mm ²	10m

Due to different installation environments, installer need to prepare power cables for control box and for gate openers.

 **Note:** cable outlet should be downward to prevent rainwater from entering wire along the cable.

Direction of Gate Opening

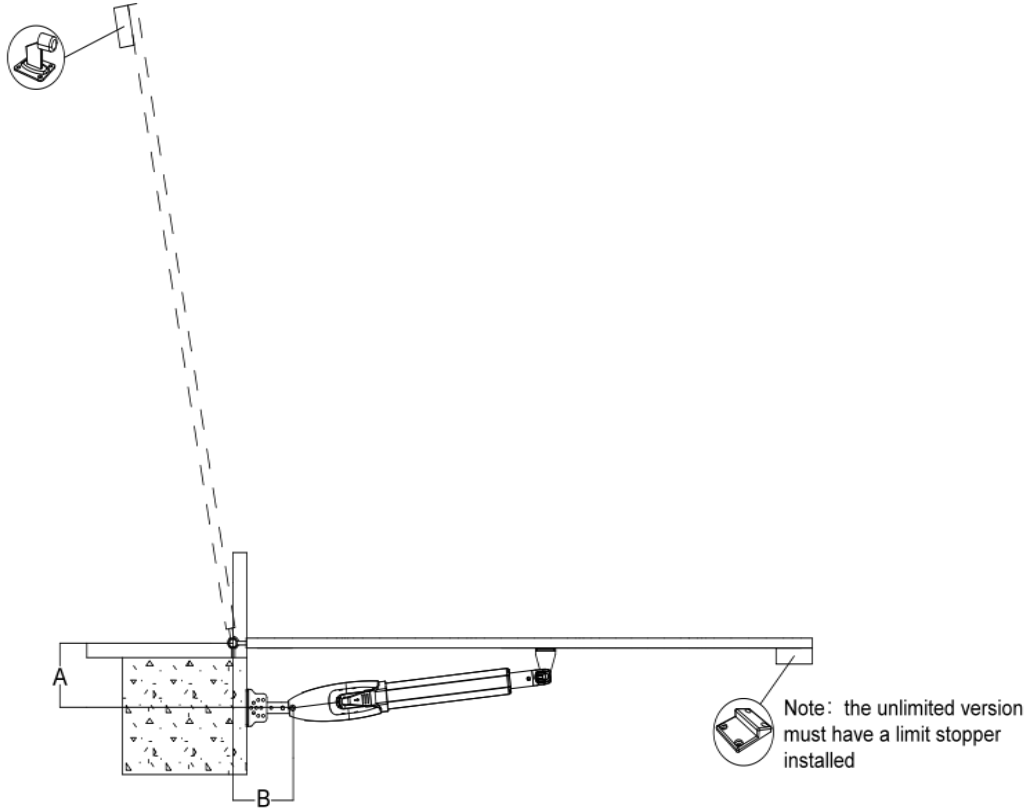
7.1 Gate Opens Inwards



<div>A \ B</div>	100mm	120 mm	140 mm	160 mm	180 mm	200 mm
100mm	102°	101°	99°	98°	97°	97°
120mm	111°	108°	106°	104°	103°	99°
140mm	118°	115°	112°	102°	93°	96°
160mm	117°	107°	98°	91°		
180mm	103°	96°	90°			
200mm	94°					

Gate Opens Outwards

It is recommended to install with a safety stopper(should be prepared by the users themselves)



<div>A</div> <div>B</div>	100mm	120 mm	140 mm	160 mm	180 mm	200 mm
100mm	103°	101°	99°	98°	97°	97°
120mm	111°	108°	106°	104°	103°	96°
140mm	118°	115°	112°	102°	92°	
160mm	117°	108°	98°	91°		
180mm	103°	96°	90°			
200mm	94°					

Installation Steps

8.1 Preparation Before Main Machine Installation

- a) Before installing the gate opener, please confirm that the gates were installed correctly, please ensure that the gate can be manually operated smoothly, and the gate safety stopper can effectively prevent the gate to continue moving.
- b) Please keep a distance of 45-50mm between the gate bottom and the ground for installing the electric lock. If electric lock is not required, the distance between the gate bottom and the ground should be $\geq 20\text{mm}$;
- c) The recommended mounting height of the 2 main machines is around 300 ~ 800mm above the ground, and make sure there are reliable fixed points for mounting brackets.

Cable Bury

In order to ensure the normal operation of the gate opener and protect the cable from damage, please use two PVC pipes to bury the motor and power cables, and the control cables separately. One PVC pipe for motor and power cables, the other one for control cables.

Mounting Brackets Fixing

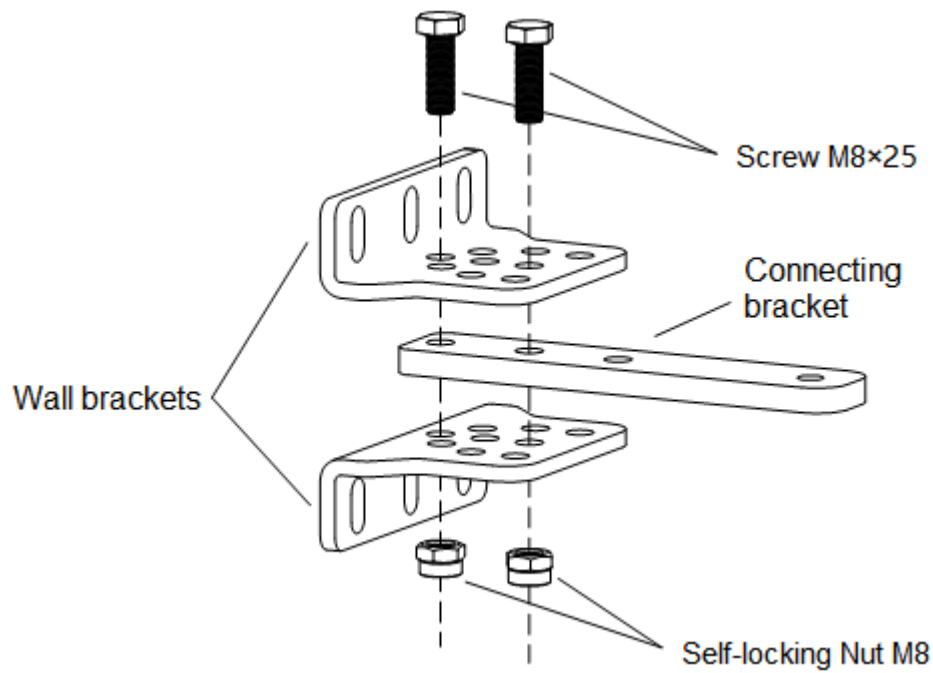
In order to install the VERO- 400DC main machines firmly, it is recommended to use the expansion screws to fix the mounting brackets.

Accessory Installation

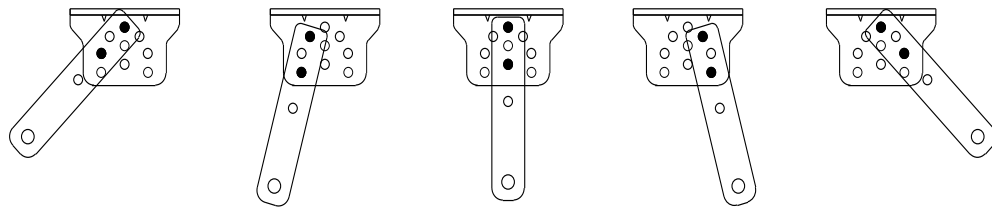
A) Before installing the main machines, please install the wall bracket on the wall first, then fix the connecting bracket, finally install the front mounting bracket on the gate.

Note: Please detect by gradienter before fixing to ensure that the front mounting bracket and the connecting bracket are in the same level.

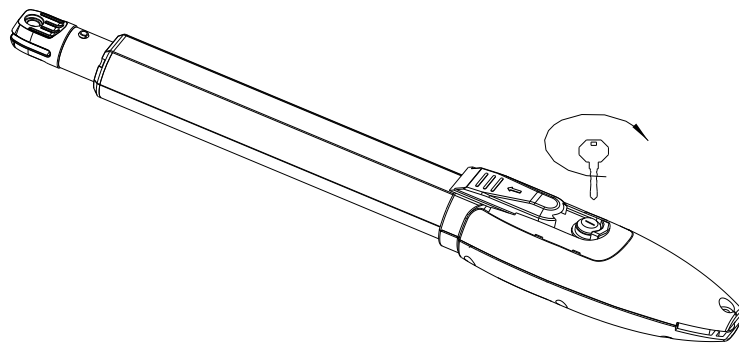
Connect the connecting bracket and two wall brackets, please refer to Figure 4.



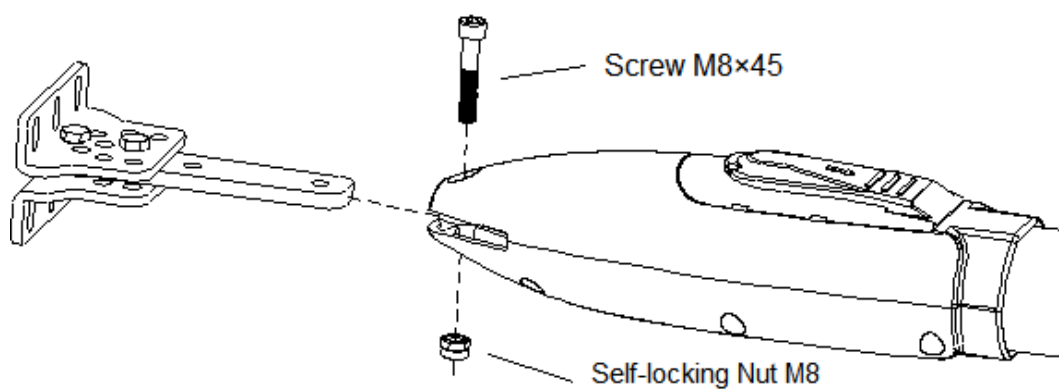
B) The connecting bracket and the wall bracket can be connected according to different conditions, please refer to figure 5.



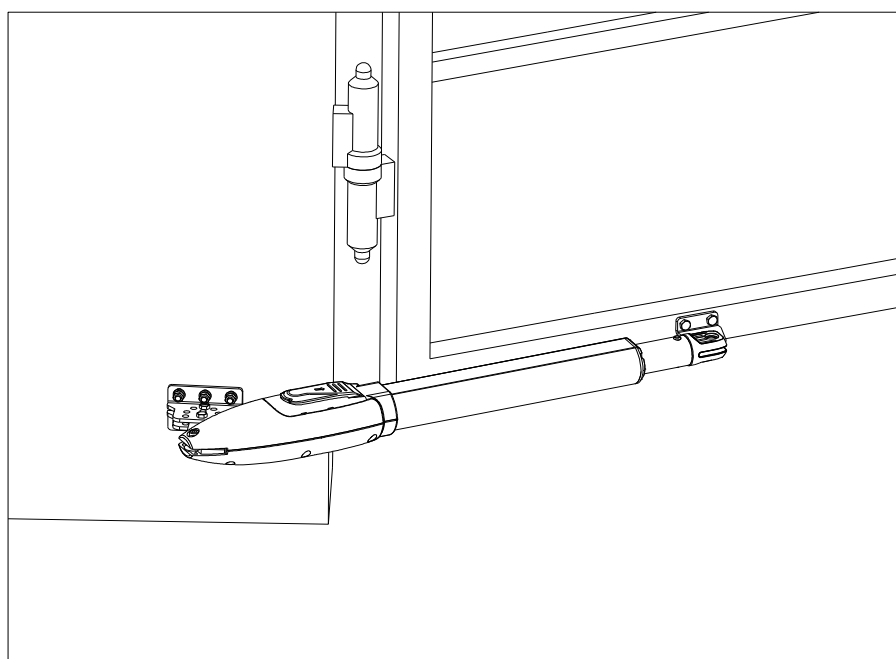
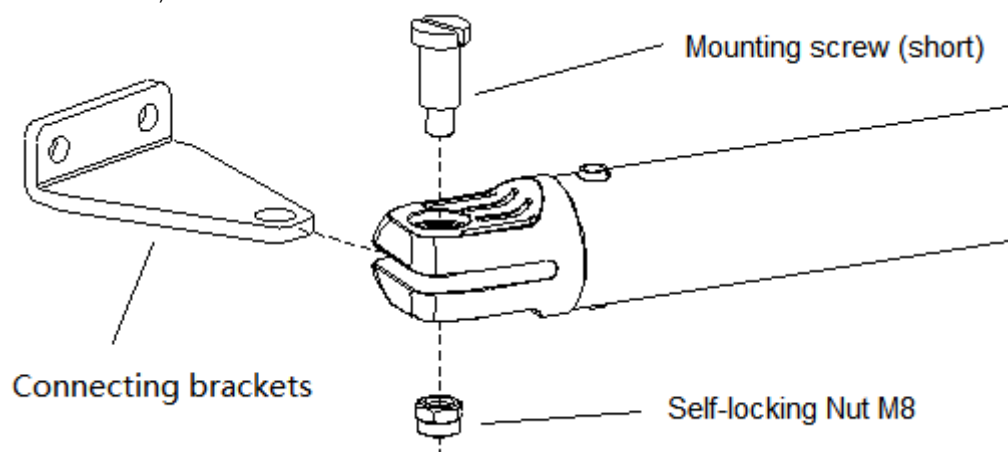
C) Before the installation, please unlock the two main machines. Unlock method: Open the manual release cover, insert the manual release key, rotate the key until it's released, as shown in Figure 6, then turn the telescopic arm, you'll find it's stretched by hand easily.



D) Connect the main machine with connecting brackets by screw and nut as shown in Figure 7.



E) As shown in figure 8 below, connect wall bracket with wall according to marked position. Then, connect main machine with wall bracket by screw and nut. (Please use spirit level to make sure the installation levelness.)



Note

- To ensure safety and protect the machines, please install a gate stopper at the open limit position when the gate opens outward to prevent the gate from running over its travel. Meanwhile, to enable the 2 swings to close to its accurate limit position, please install a limit stopper at the closed limit position (as shown in figure 3). Similarly, when the gate opens inward, please install a limit stopper at the closed limit position (as shown in figure 2).
- Before installing the main machine, please make sure the main machine and components are in good mechanical performance and the gate can be manually operated flexibly.
- One control unit can optionally drive one main machine or two main machines.
- Earth leakage circuit breaker must be installed on where the gate movement can be seen, and the minimum mounting height for the control box should be over 1.5m to avoid being touched by kids.
- After installation, please check whether the mechanical property is good or not, whether gate movement is flexible or not after unlocking, and whether the infrared sensor (optional) is installed correctly and effectively.

