

The manual of hanging type electromagnetic lock(Model BCL-2505)

I 、 Brief Introduction:

BCL-2505 is an excellent performance Electromagnetic lock with innovative and noble design, Colorful LED lamp, with special appearance treatment----aluminum anodizing. Lock body and suction plate processed with chrome-faced to rust-proof treatment. It has function of stable performance and durable because of the built-in surge absorber protection. With low-power consumption the body lock can work continuously without getting hot, more safe and reliable.

II 、 Technical Parameter:

Working Voltage: 12VDC \pm 15%

Working Current: 440mA

Ambient Temperature: -30 $^{\circ}$ C \sim 55 $^{\circ}$ C

Relative Humidity: 10% \sim 95%RH

Holding Force: 280kg

Dimension of Lock Body: 212 mm \times 53mm \times 30mm

Dimension of Suction Plate: 150 mm \times 46mm \times 13mm

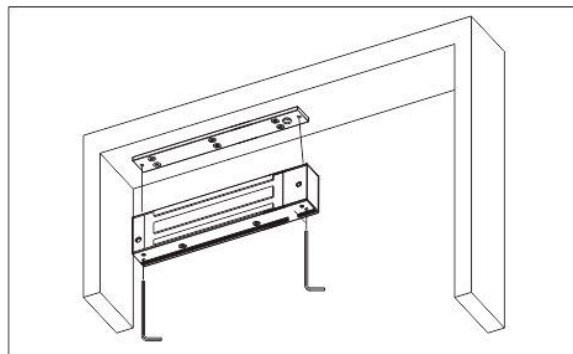
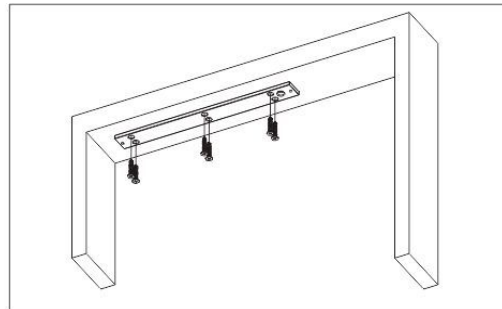
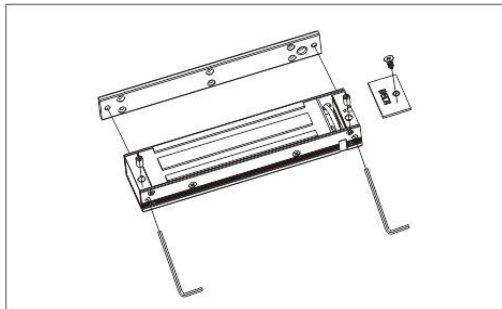
Security Type: Lock on power/unlock off power

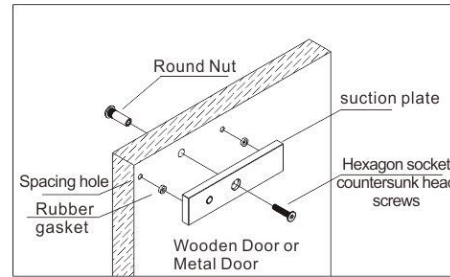
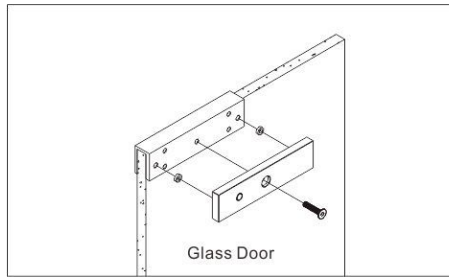
Wiring Drawing:

Red VCC \rightarrow Anode of power supply

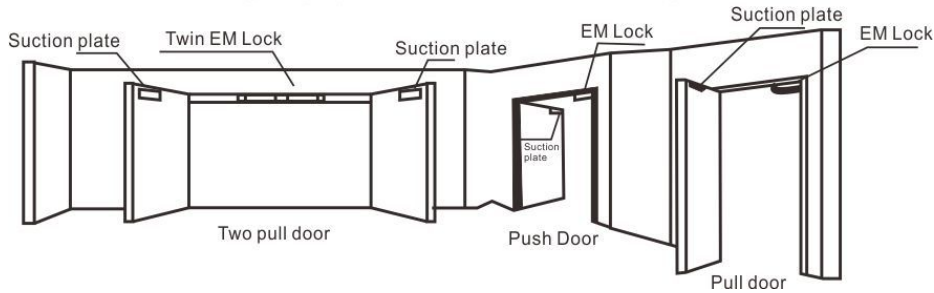
Black GND \rightarrow Cathode of power supply

III、 Installation Diagram:





Hanging type Installation Diagram

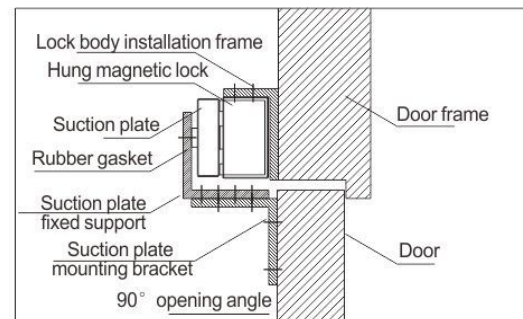
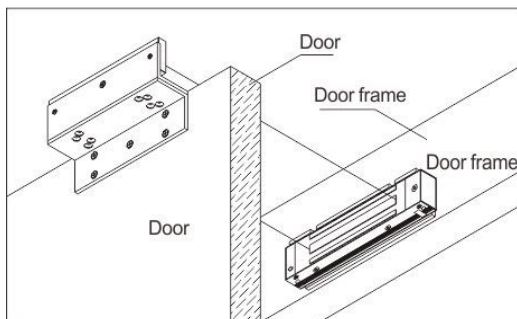


IV、 Application Scope:

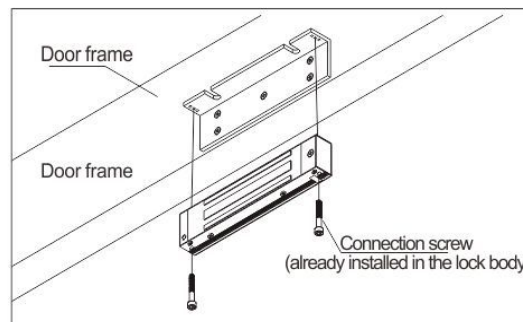
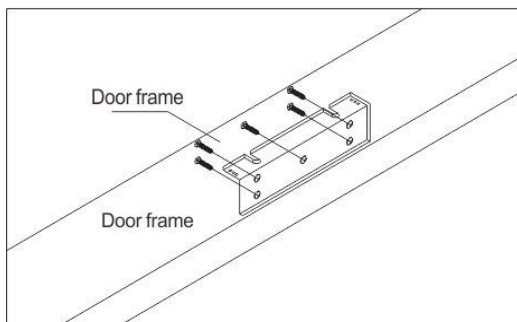
Suitable for installing wooden gate with 90° opening angle, stainless steel door and emergency exit, etc.

EM lock is power on locking. Therefore, if you need it on lock status although under the power-off situation, you need to equip the UPS (Uninterrupted Power Supply).

V、 Collocation L auxiliary support to open in installation

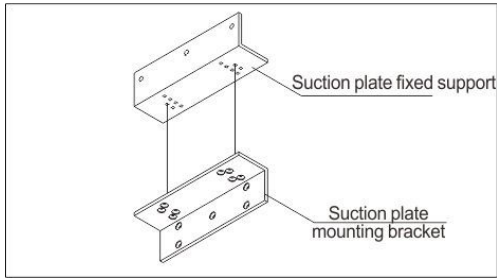


L auxiliary frame installation steps:

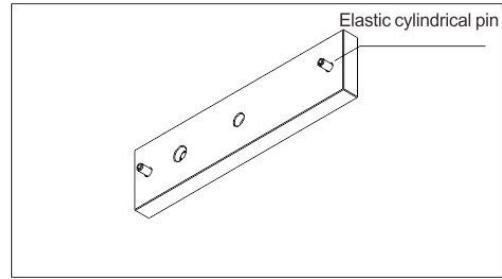


According to L auxiliary frame, paint line in the suitable position of door frame and fix the L auxiliary frame on the door frame.

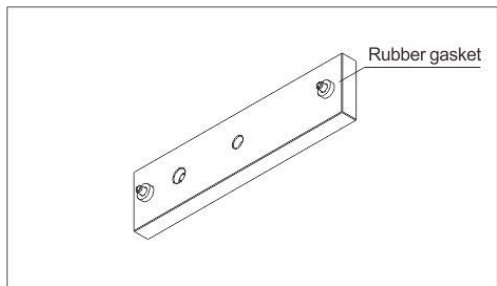
To fix magnetic lock on the L auxiliary frame with the help of allen wrench.



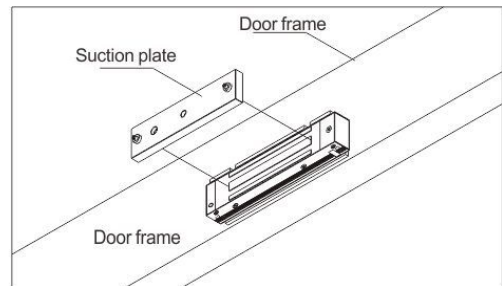
Assembling L-shaped auxiliary frame Z part, the auxiliary frame can be moved



Press the accessories of elastic cylindrical pin into the location hole of suction plate.

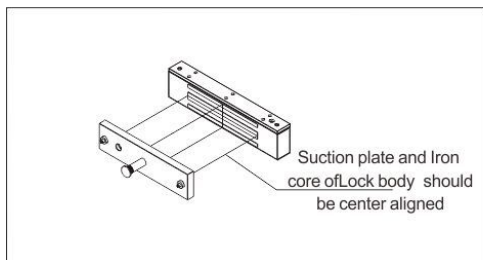


When the suction plate and magnetic lock attached each other, adjust the Z auxiliary frame part to get all its way up to the door leaf and then lock Z auxiliary frame screw.

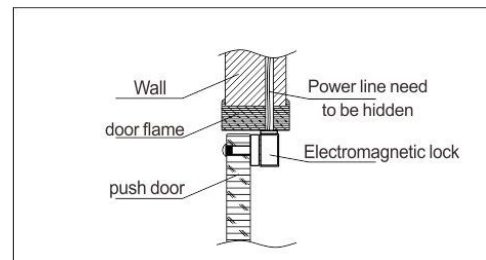


Fix Z auxiliary frame to the door leaf and close the door to test suction. One can increase or decrease gasket or tighten the suction plate screw to make it fully closed instead of adjusting the space between the suction plate and magnetic lock.

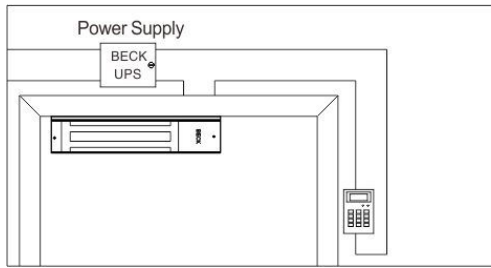
V、Attention



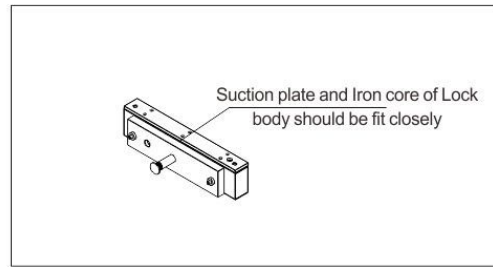
Whatever the installation way you choose, the lock body must be completely aimed at the suction plate. Otherwise, it will greatly reduce the holding force or maybe just a pull can also open the door.



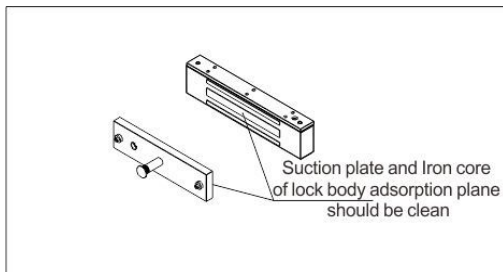
Whatever the installation way you choose the power line and signal line and other lines should be hidden. Showed in the picture:



EM lock is fail safe. We suggest you equip the UPS in case of the situation when the power is off to be more safe and secure.



The lock body must be completely aimed at the suction plate. Otherwise, it will lead to reduce the holding force and no reaction from the inner Howard Element. Finally no any signals will be outputted.



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VII、 Original List

- EM Lock: 1 Piece Suction Plate: 1 Piece
- screws: 1 Bag Instruction: 1 Piece

VIII、 Common Fault Treatment

Situations	Reasons	Elimination Method
Can not lock	Line Fault or too low voltage	To check the line, test the voltage whether is normal or not
	The power line is too thin or too long so as it may results in the voltage drops too quickly.	To change the power line(select a thick one)
	The power supply maybe is out of work so as there is no any voltage.	To repair or change a new power supply
	You may make a mistake at the positive and negative poles	To check the polarity and then correct it.
	There is no power output	To check whether the lines from the access controller and the power supply are correctly connected to the point of NC. Besides, to check the settings to access controller is right or not. After

		all, different controller has the different wiring, please do it under the instruction.
Tension is not enough,	The absorption surface maybe has not touched completely.	To check the absorption surface whether is damaged which will result in incompletely closed. You need to repair it or change a new one.
	The suction plate may be fixed very very tight	To check the rubber washer whether has been put into the locating pin of suction plate. To adjust the set screw so as to let the suction
	The door is out-shape or shifting. Or the absorption surface did not completely touch.	To adjust the suction plate which had been fixed with door-frame, so as to keep the suction plate and the lock completely touch
	There is blot or other things on the absorption surface.	Please to clear the blot. If there is rust, you have to repair it or change a new one.
	The settings are wrong, or the jumper becomes flexible.	Please according to the power supply voltage to set the jumper, because the lock has two jumpers—12VDC & 24VDC.
	The power is not enough.	Please check the voltage and current by using multimeter.
	The power line of lock is too thin or too long.	Pls use a better power line which is thicker and shorter and it had better no longer than 20m
	The lock maybe is of bad quality	To Repair it or change a new one.
Can not open the door	the electric lock control port no voltage or Anode & Cathode connect inside out	To check the unlock control circuit of the access controller or the power supply is correct or not. Please noted that the EM Lock is power-off lock type, so just cut the power, the door will open.