



## User Manual of Water Proof Electromagnetic Lock (Item No. LM176)

### 1. Part list

 <p>(1 SET)</p> <p>1. 12VDC Electromagnetic lock ( water-proof) and installation hardware.</p>	 <p>(1 PC)</p> <p>2. PCB for 24VDC application when the lock is connected to the AS/GG swing gate opener.</p>
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### 2. Specifications

**Lock mode:** Power-on to lock, Power-off to unlock

**Rated Voltage of the E-lock:** 12VDC

**Holding force:** 280KGS    **Working Current:** 320mA

**IP rating:** IP55

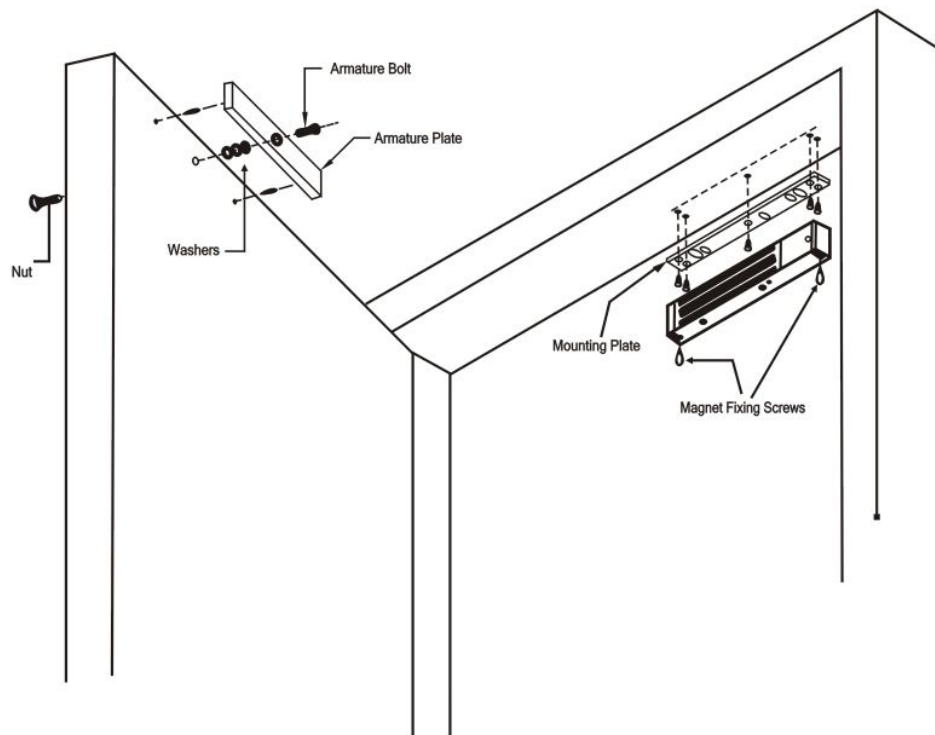
### 3. Installation

## Important: Please Read Before Attempting To Install Magnetic Lock

- A. Handle the equipment with care, damaging the mating surfaces of the magnet or armature plate may reduce locking efficiency.
- B. The magnet mounts rigidly to the door frame ,the armature plate mounts to the door with hardware.Kit provided that allows it to pivot about its center to compensate for door wear and misalignment.
- C. Template use must take place with door in its normally closed position.
- D. Before installing ,please add thread locker to all screws . Firmly tighten screws to avoid fastening loosen.

### Typical Installation:

- \*\* Important:** Fix the armature plate not too tightly ,and make the rubber washer mor flexible, in order to make the armature plate autonatically adjust its proper position with the magnet.



## MOUNTING INSTRUCTION

### STEP 1

- FOLD TEMPLATE ALONG DOTTED LINE.
- PLACE TEMPLATE AGAINST DOOR AND HEAD FRAME.
- DRILL HOLES AS INDICATED ON TEMPLATE.

### STEP 2

- MOUNT THE ARMATURE PLATE TO DOOR USING 1 RUBBER WASHER SANDWICHED BETWEEN 2 STEEL WASHER(THE RUBBER WASHER AND 2 STEEL WASHER ARE INSTALLED ON THE THROUGH SEXNUT BETWEEN THE ARMATURE PLATE AND DOOR).

### STEP 3

- INSTALL THE MOUNTING PLATE
- ADJUST THE MOUNTING PLATE SO THAT IT AND THE ARMATUTE PLATE FORM A RIGHT ANGLE.
- USING THE MOUNTING PLATE AS A TEMPLATE , DRILL THE WIRE HOLE.
- DRILL AND INSTALL THE REMAINING MOUNTING SCREWS

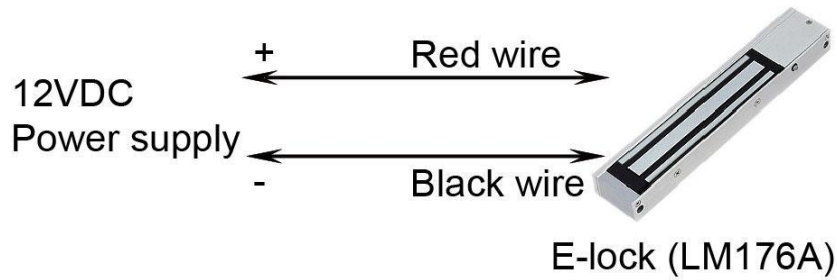
### STEP 4

- INSTALL MAGNET TO MOUNTING PLATE WITH 2 M4(M6)SCREWS SUPPLIED.

## 4. Wire connection

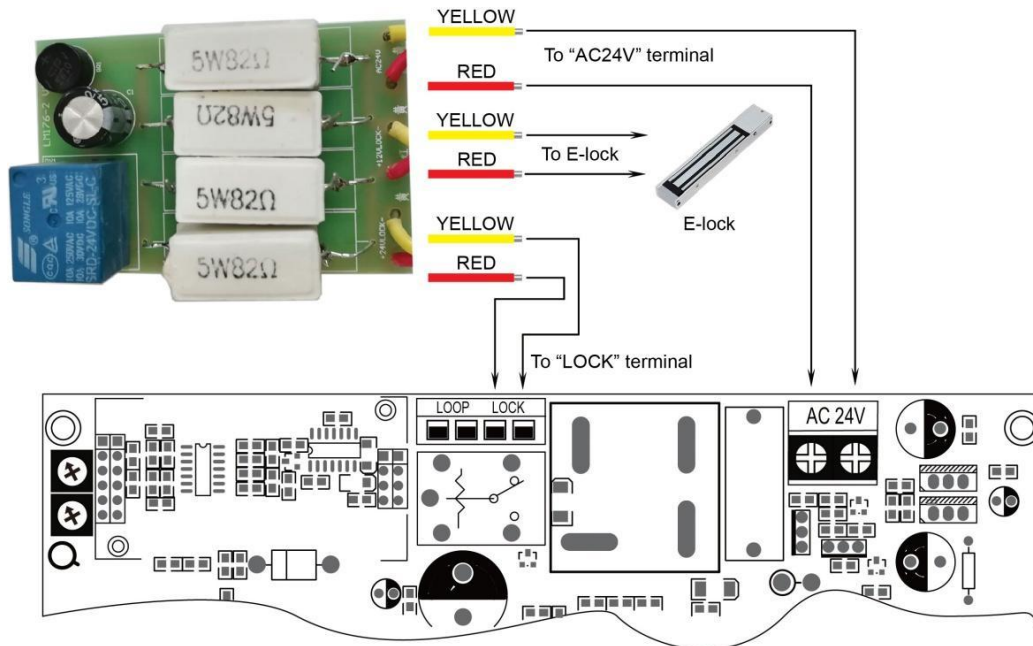
### 4.1 12VDC Application

You can connected the E-lock to the 12VDC power source directly **WITHOUT** using the adapter pcb included in the package.



#### 4.2 24VDC Application (Used for AS/GG swing gate opener)

The adapter PCB included in the package **MUST** be used with the E-lock when it is connected to the AS/GG swing gate opener because the gate opener system is 24VDC. Please do the wire connection according to the following illustration.



1. Wires of "+24VLOCK-" of adapter PCB should be connected to the "LOCK" terminal of the control board of gate opener.
2. Wires of "+12VLOCK-" of adapter PCB should be connected to the E-lock.
3. Wires of "AC24V" of adapter PCB should be connected to the "AC24V" terminal of the control board of gate opener.

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