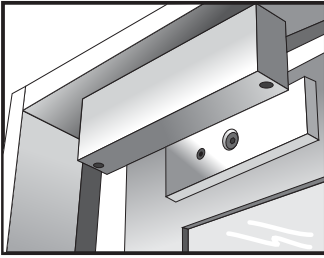
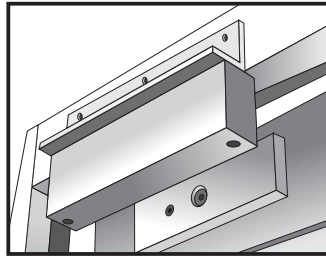


### Optional Bracket

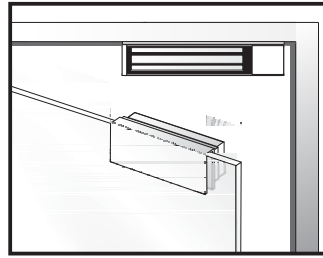
Identify the door swinging direction and inspect the door frame header to determine if bracket is required. A L- bracket, LZ-bracket or U-bracket (optional) may be required for the electromagnet depending on the frame header and swinging direction.



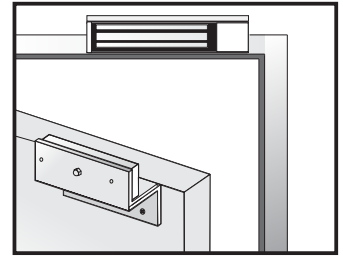
Regular Installation



With L-bracket for narrow door frames

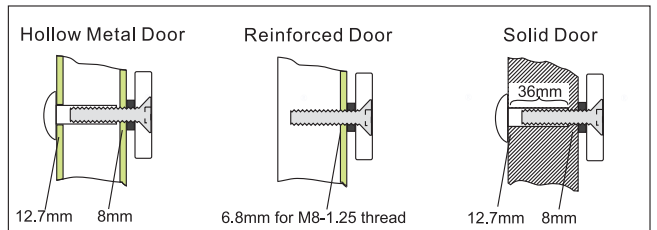
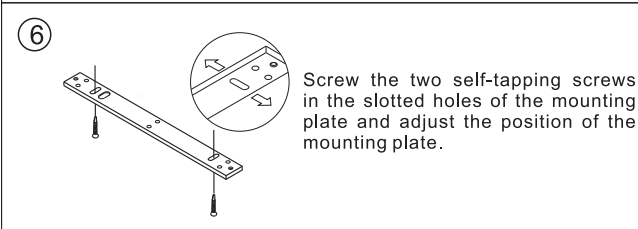
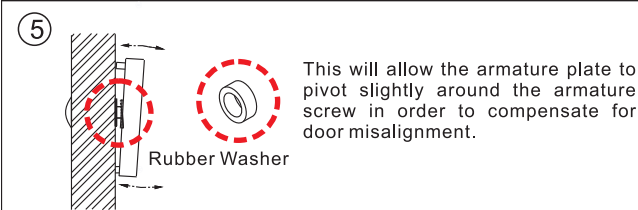
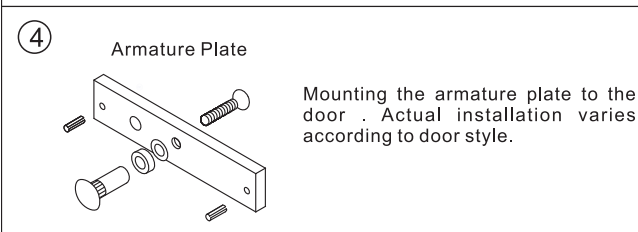
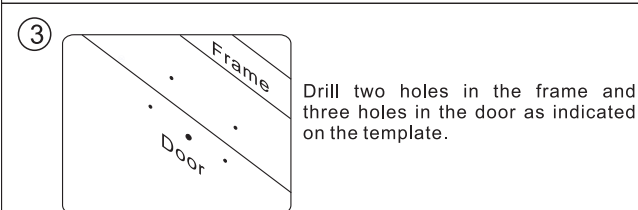
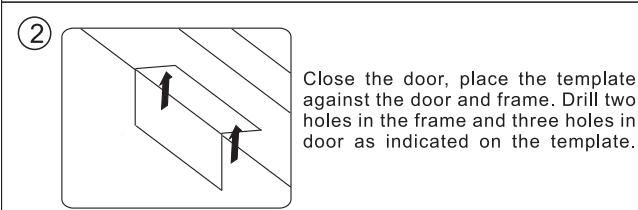
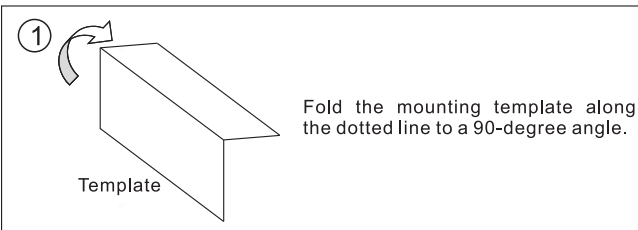


With U-bracket for frameless glass door leaf



With LZ-bracket for in-swinging door frames

### Regular Installation



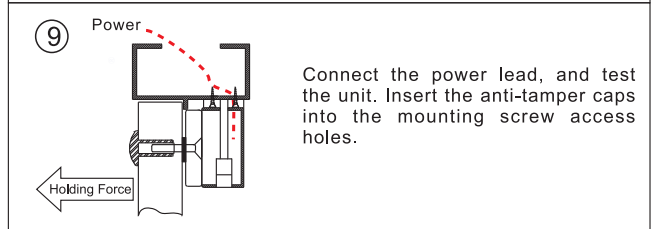
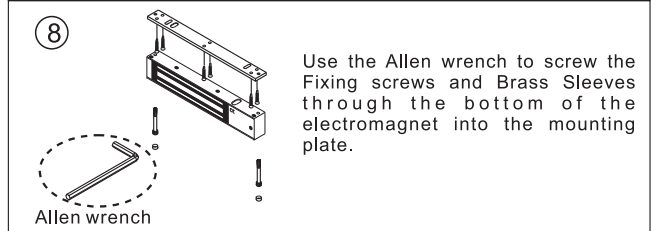
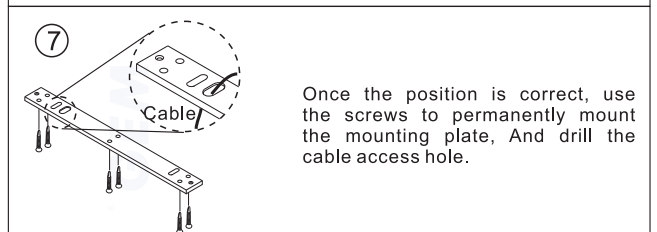
Drill an 8 mm hole through door, from sexnut bolt side only, enlarge the 8mm hole to 12.7mm.

Drill an 6.8 mm dia. Hole and tap for M8x12.5 thread.

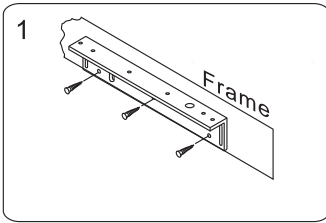
Drill an 8 mm hole thru door from sexnut bolt side of door, drill 12.7mmhole, 36mm in depth.

**Recommendation:**

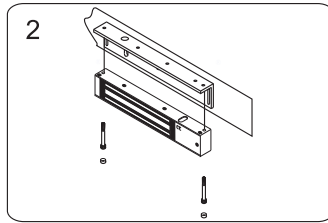
- Micro EM-locks (300 LBS) maximum thickness of door is 44 mm.
- Mini EM-locks (600 LBS) maximum thickness of door is 50 mm.
- Midi EM-locks (800 LBS) maximum thickness of door is 48 mm.
- Standard EM-locks (1200 LBS) maximum thickness of door is 46 mm.



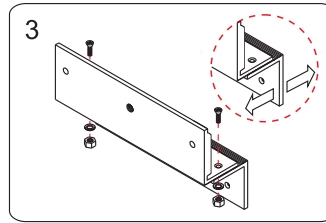
## With LZ bracket for In-swinging doors



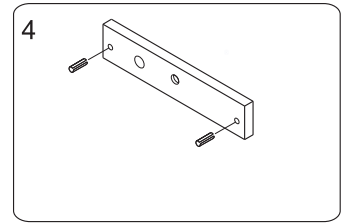
1 Find a mounting location on the door frame for the L bracket. Make sure that the door is still closeable.



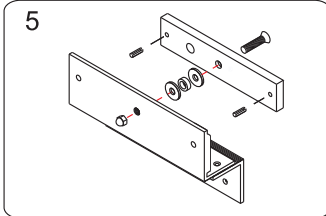
2 Tighten the electromagnetic lock on the L bracket by using the fixing screw.



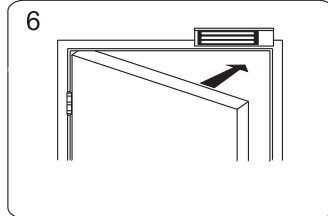
3 Assemble the Z bracket, and make sure that the Z bracket is adjustable.



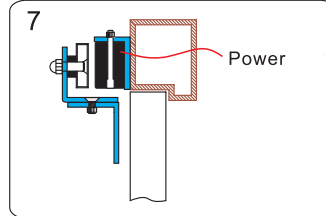
4 Insert the guide pins into the armature plate.



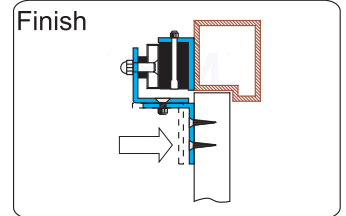
5 Put one rubber washer between armature plate and the Z bracket.



6 Close the door. Measure the correct position by bringing the armature plate close to the contact surface of the electromagnetic lock.



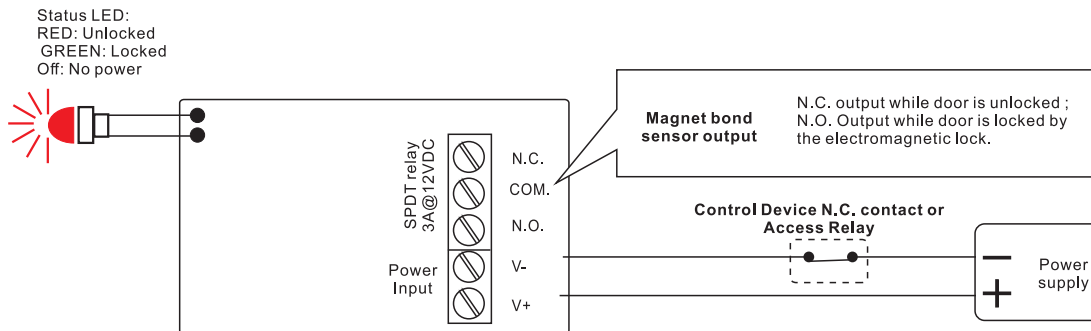
7 Turn on the power of EM-Lock, and let the armature plate bonds to the EM-lock. Adjust the position between the Z bracket and the door frame.



Finish

Once the position is correct, use the screws to permanently mount the Z bracket on the door frame. This should be the last step.

## Connecting Diagram



## Trouble Shooting

| Problem                          | Possible Cause   | Solution   |
|----------------------------------|--|--|
| Door does not lock               | No power   | Check to make sure the wires are securely tightened to the correct terminal block<br>Check that the power supply is connected and operating properly<br>Make sure the lock switch is wired correctly                         |
| Reduced holding force            | Poor contact between electromagnet and armature plate    | Make sure the lock switch is wired correctly.<br>Make sure the electromagnet and armature plate are properly aligned<br>Make sure the contact surfaces of the electromagnet and armature plate are clean and free from dust  |
|                                  | Low voltage or incorrect voltage setting                 | Ensure the electromagnetic lock is set for the correct voltage.<br>Check for proper voltage at the electromagnetic locks input. If low, determine if the correct wire gauge is being used to prevent excessive voltage drop. |
| Sensor output is not functioning | A secondary diode was installed across the electromagnet | Remove any diode installed across the magnet for "spike" suppression. (The magnet is fitted with a metal oxide varistor to prevent back EMF)   |
|                                  | Misalignment between the reed switch and its magnet      | Check the installation of armature with supplied template.   |