

# Single-Door Electromagnetic Lock

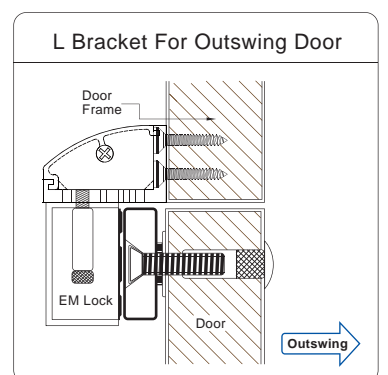
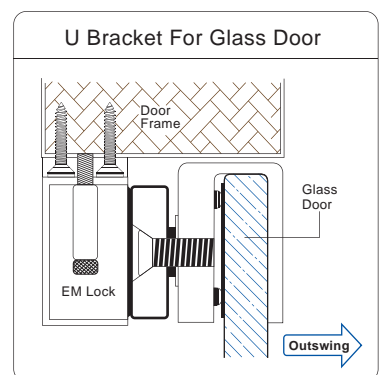
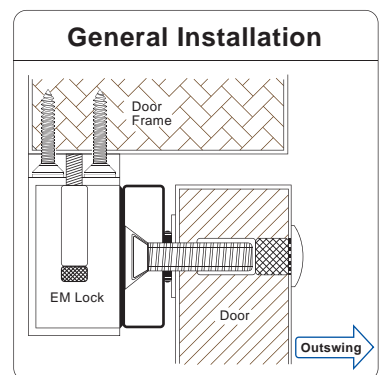
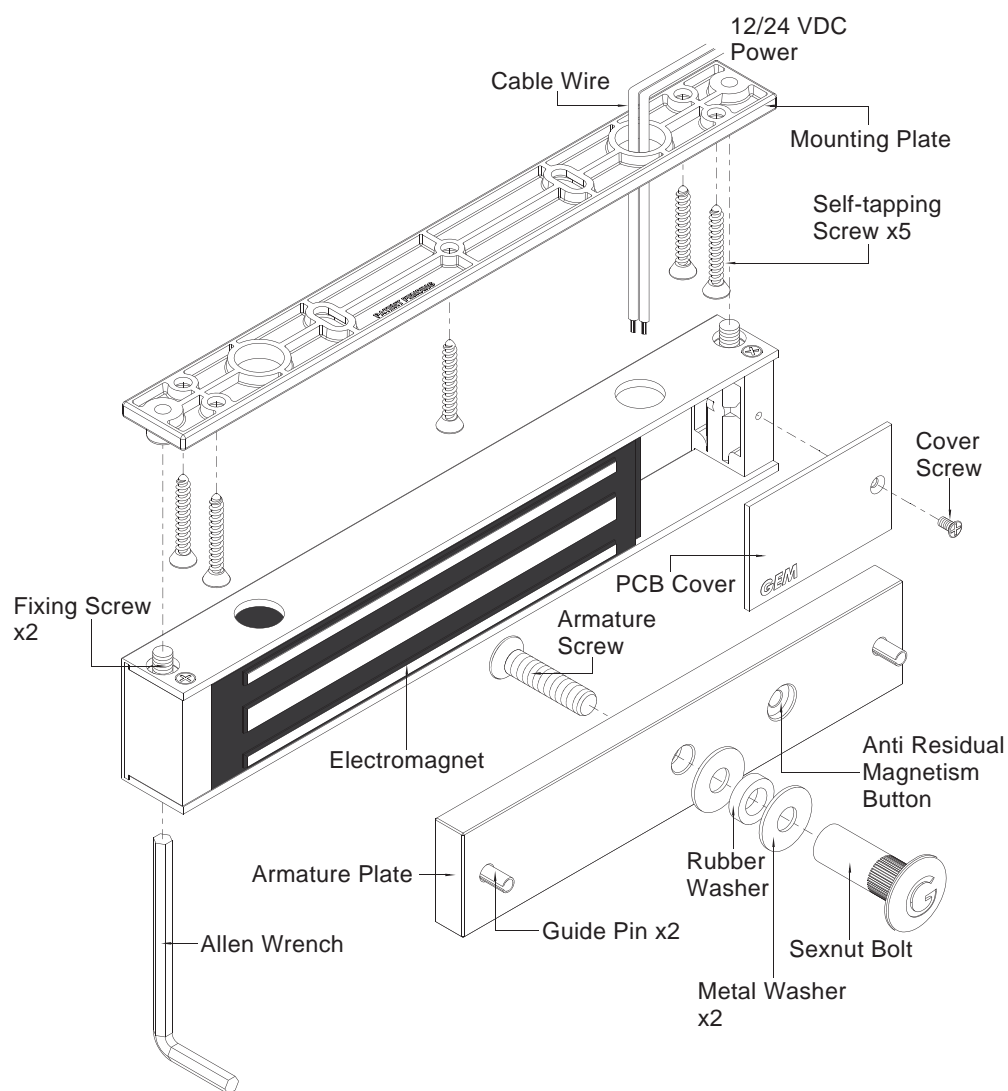
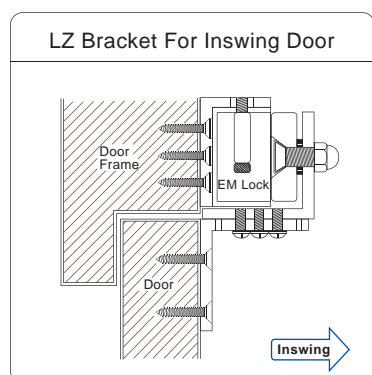
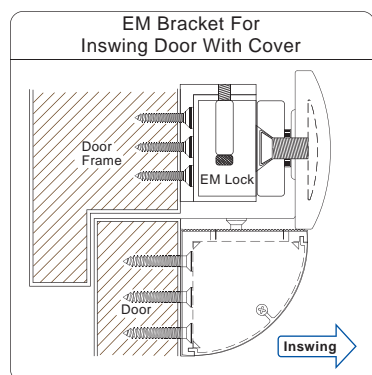
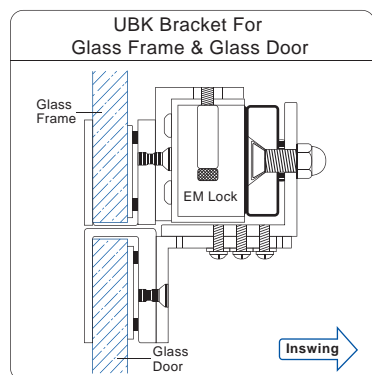
## Installation User Guide

### (Indoor Series)

※ 12 or 24VDC auto voltage selection (except GEM-300M)

Spec/Model	GEM-300	GEM-600	GEM-800	GEM-1200
Holding Force	300lbs (136kg)	600lbs (272kg)	800lbs (363kg)	1200lbs (545kg)
Voltage Input	12/24VDC	12/24VDC	12/24VDC	12/24VDC
Current Draw	420mA/12VDC 210mA/24VDC	500mA/12VDC 250mA/24VDC	500mA/12VDC 250mA/24VDC	500mA/12VDC 250mA/24VDC

### Basic Installation Concept & Accessories



### General Installation Steps & Maintenance

1. Drill the armature plate holes in the door using the sticker template provided.
2. Attach the armature plate to the door with the hardware provided per the illustration.
3. With the door closed, mark the door frame at the edge of the armature in order to properly align the electromagnet to the armature.
4. Attach the mounting plate to the door frame using the self-tapping screws provided. Align the mounting plate with the mark from the previous instruction.
5. Adjust the magnet direction according to left or right open door.
6. Insert the wires through the hole in the mounting plate and into the electromagnet unit. Attach the electromagnet unit to the mounting plate with the Allen head fixing screw.
7. Screw in the mounting plate to prevent unauthorized access and to prevent the fixing screw from loosening over time.
8. Connect the power wires according to the instruction and test the system.
9. It is recommended that you apply a light coat of silicon lubricant to the mating surface on a monthly basis to prevent rust.

### Trouble Shooting

1. **Sensor not functioning**
  - Align attachment of electromagnet and armature plate
  - Modification of the PCB
2. **Door not locked** - Incorrect wiring or no power from power supply
3. **Reduced holding force**
  - Poor contact of electromagnet and armature plate.
  - Be sure armature is loose enough that it can fully contact electromagnet along the entire length.**
  - Make sure surface is not dusty or damaged.
  - Improper input voltage or wire specification.