Electric Motor Lock

Installation Guide V1.0.0

Revision History

Date	Manual Version	Description	Author
1/11/2023	V1.0.0	Initial release	ZW5988

Contents

1 Overview

This manual is based on OEA-TL12 electric motor locks. OEA-TL12 electric motor lock is designed for the anti-tailgating interlocked safety door system. As it adopts a hardware locking solution, when locked, the door cannot be opened from the outside either with electric control or with a key. Besides, it uses advanced circuit design, mechanical structure, all-metal gear and high-speed motor, realizing long lifetime and fast unlocking. It is widely used in smart communities, schools, hotels, rental houses, detention centers, banks, prisons, etc.

2 Appearance

OEA-TL12 Electric Motor Lock

3 Preparations

3.1 Check the Components

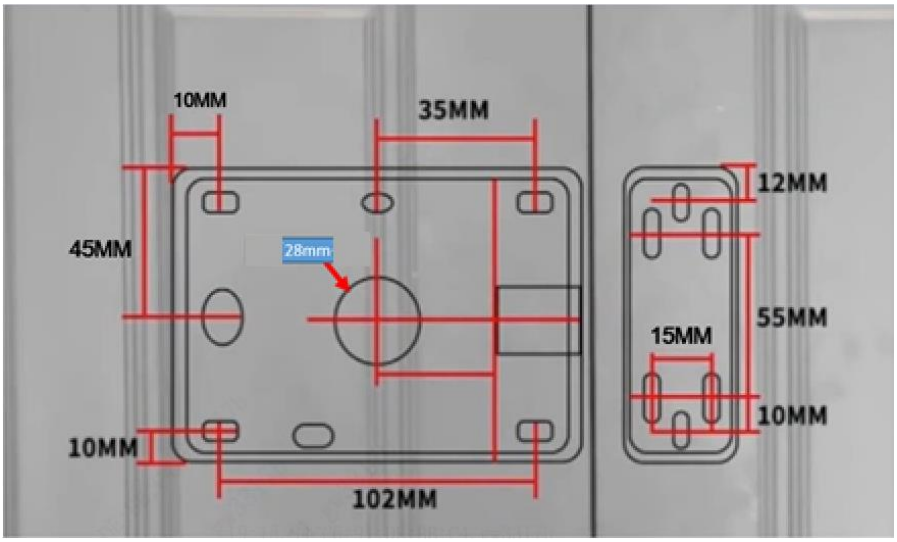
No.	Name	Image	Quantity	Remarks
1	OEA-TL12 electric motor lock		1	Check against the image to ensure all components are complete.
2	Power adapter 12V	/	1	Sold separately.

3.2 Prepare Installation Tools

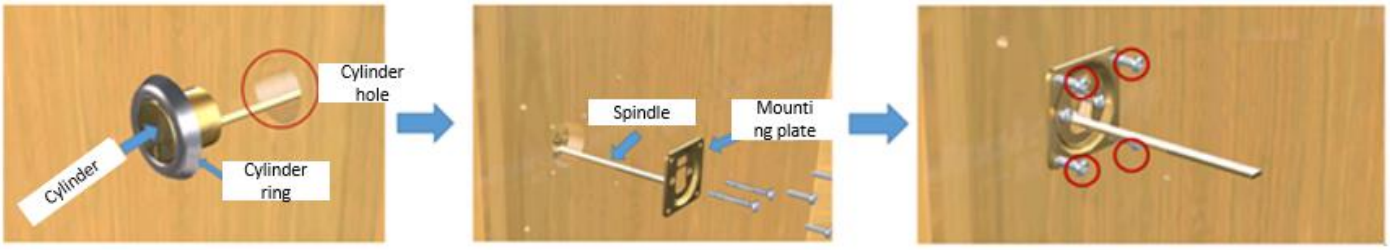
Tool	Image	Description
Marker	/	Used to mark holes.
Protective gloves		Used to protect your hands during installation.
Screwdriver set		Used to tighten fixing screws.
Tape measure		Used to measure the installation height.
Hammer drill		Used to drill holes for screws, 8mm drill bit. 6.8mm drill bit (only required for single-sided reinforced doors).
Hand tap set		Used to tap on a metal sheet, 8mm tap (only required for single-sided reinforced doors).
L-key		Used to loosen/tighten hex socket screws.

4 Installation

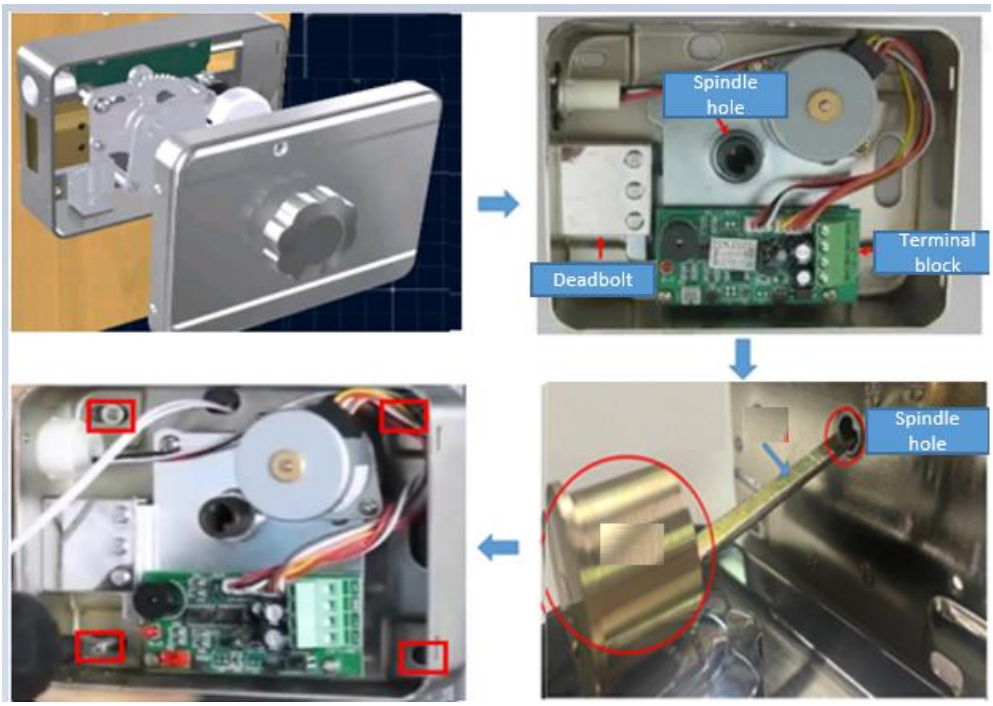
1. Determine the installation location.
   - Make a mark on the door (1000mm from the ground, 60mm from the side jamb), and then drill a 28mm diameter hole through the door at the mark.
   - Allow 3mm to 8mm between the lock body and the strike.



2. Install the cylinder.
   - Fit the cylinder ring and the cylinder together, and insert them into the hole.
   - Lead the spindle through the mounting plate.
   - Secure the mounting plate to the door with screws.



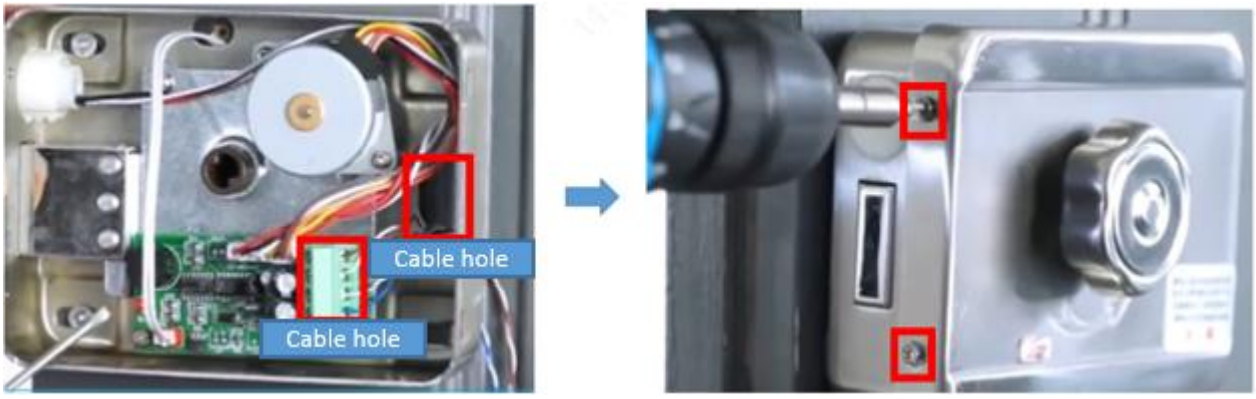
3. Install the lock body.
   - Remove the cover of the lock body and unlock the deadbolt.
   - Insert the spindle into the spindle hole in the lock body, and cut the spindle if necessary.
   - Ensure the smooth movement of the key and deadbolt, then fix the lock body.



NOTE!

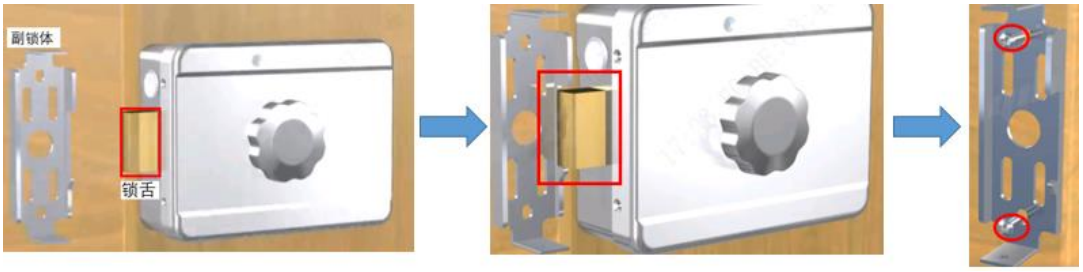
- Before you fix the lock body, check the concentricity of the spindle and the center of the lock body and the depth of the spindle inside the spindle hole.
- Make sure that the spindle is more than 10mm away from the mounting plate and cannot hit the lock shaft.

4. Check the installation.
   - Insert the key into the core, and then turn the key to check whether the key and deadbolt can move smoothly.
   - Complete cable connection inside the lock body and lead the cables out through the cable hole on the back of the lock body.
   - Replace the cover and tighten the screws.



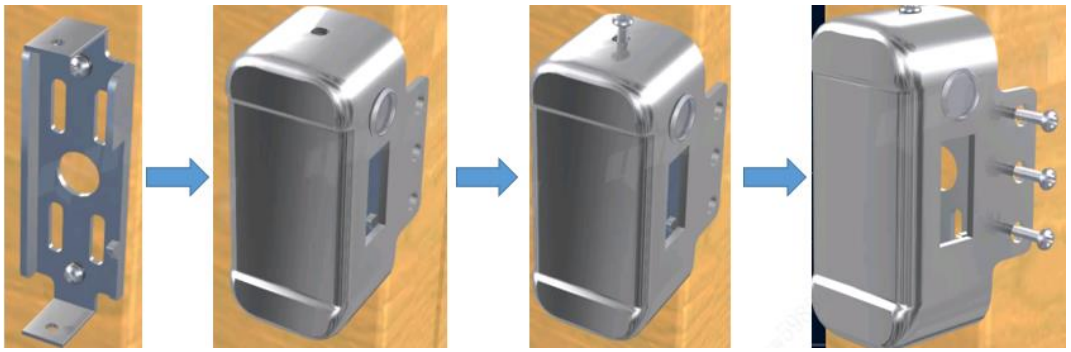
5. Install the strike bracket.

- Lock the deadbolt and close the door.
- Align the strike bracket with the lock body, and mark it on the side jamb.
- Secure the bracket in place with two screws.



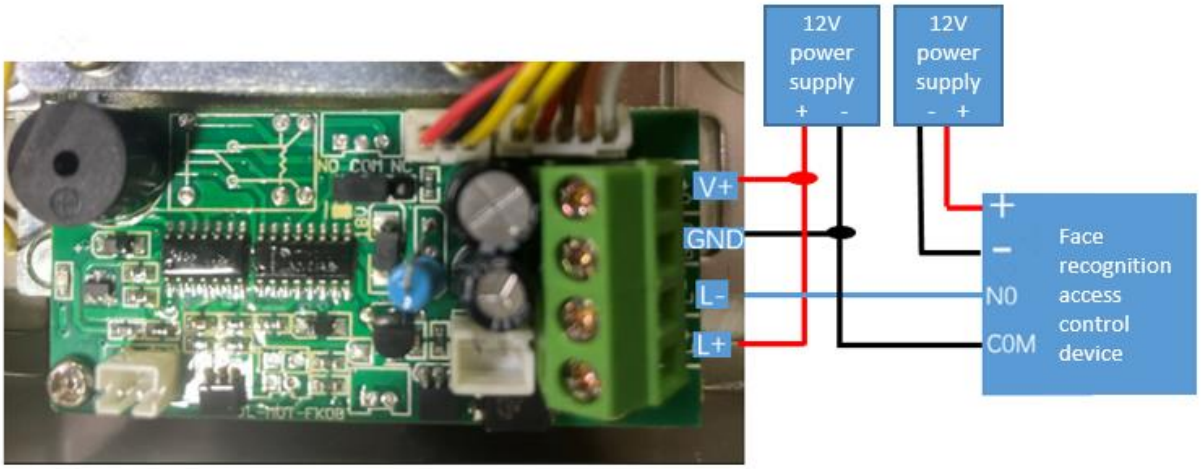
6. Install the strike.

- Fit the strike and strike bracket together.
- Secure the strike with screws.



5 Wiring

5.1 Wiring to Face Recognition Access Control Devices



5.2 Wiring to Door Exit Buttons

6 Maintenance

1. Door is closed but not locked.
   - Check whether the power supply is normal and cables are connected correctly (the operating voltage of the lock is 12V).

- Check whether the reed switch is damaged.
- Check whether the lock body and the strike are 3-8mm apart.

2. Door does not open when an opening signal is send.
   - Check whether the access control device is connected properly.
   - Check whether there is a voltage output at the moment of sending the opening signal.
3. Unsmooth door opening.
   - Check whether the lock is blocked by foreign objects such as sand and iron filings.
   - Check whether the spindle is too long or there is a concentricity deviation.