Contents

A/2(2014 年 1 月)

Important Tips

1. Fingerprint lock is a kind of hi-technical product, and its normal operation and life span are directly influenced by the installation. Therefore, we kindly suggested you to call in a professional to install it. Please open pores, supporting pits, buckle and buckle pores according to the indication of opening pore in the door plank. Pores should be opened accurately and the lock should be installed according to the indication strictly. If the lock cannot be opened (smoothly) after installation, please contact with the local distributors or our after-sales department to solve the problem.

2. If your house is sprucing up, it is suggested to uninstall the lock after you exanimate the locks and to reinstall them after the sprucing up. The aims are: 1. To avoid the lock appearance being damaged by corrosives, and the wet paint on the door will influence the gearing of the lock. 2. Ethyl alcohol, paint and other chemicals will be used when we sprucing up the house, which will be volatized to accelerate to damage the lock appearance and shorten its life span.

3. Before installation, please switch on all of the connecting wire and load the batteries, and then press the initialized button to initialize the lock and restore factory defaults.

4. When installing the lock, please do take the mechanical keys with you so as to unlock it if the door is close before you finish the installation.
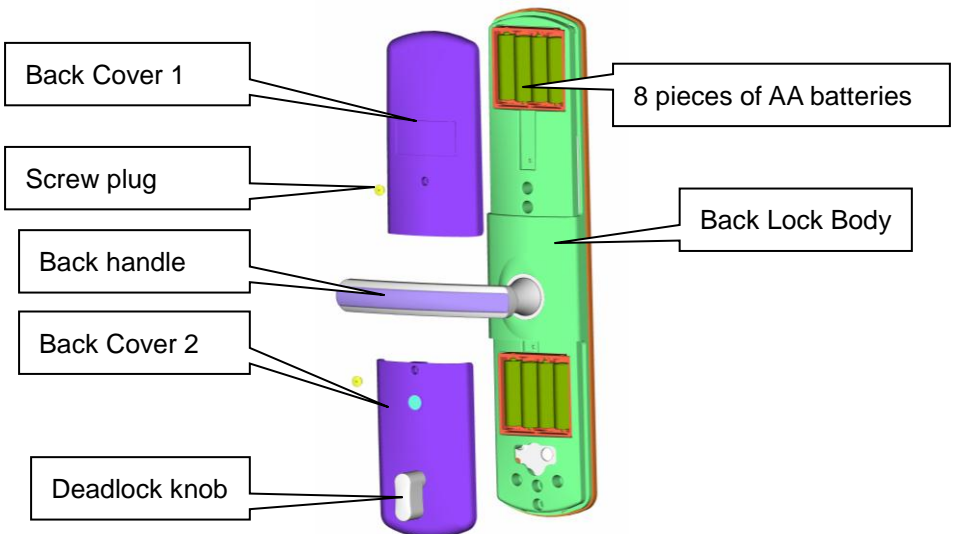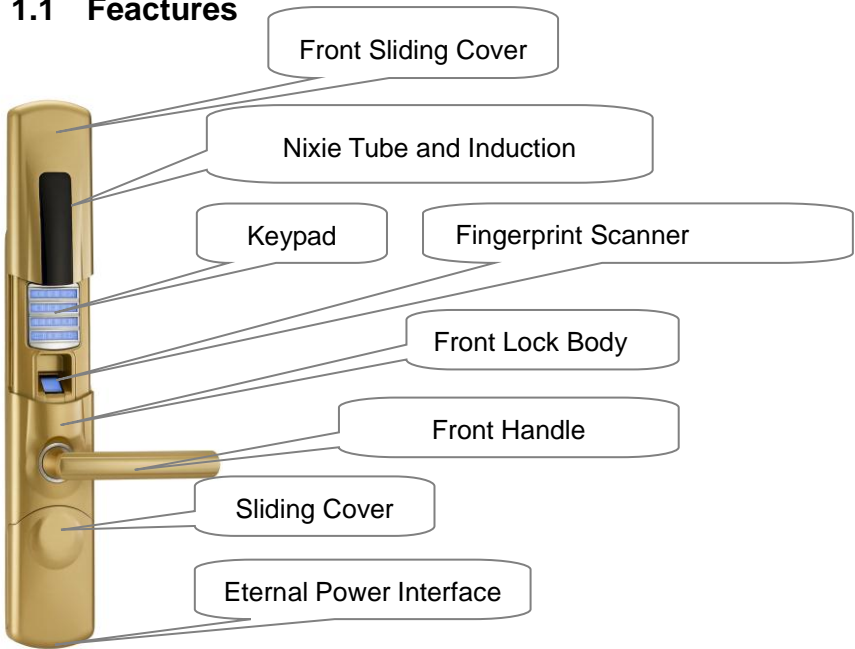
Registration Form of Users

For convenience, we make this form for administrator to record information of user registration. You can also make you form according to your specific requirements.

No.	Department	Name	Fingerprint No.	Date of registration	signature	Remarks

1 Introduction of the fingerprint lock

1.1 Feactures

Front Sliding Cover

Nixie Tube and Induction

Keypad

Fingerprint Scanner

Front Lock Body

Front Handle

Sliding Cover

Eternal Power Interface

Back Cover 1

8 pieces of AA batteries

Screw plug

Back Lock Body

Back handle

Back Cover 2

Deadlock knob

1.1.1 Brief Introduction

Features : Delicate appearance design, Reasonable structure, Secure fingerprint lock.
Applications: Government, Police station, Army, Bank, Law Court, Hospital, Office building, Residential area, etc.

1.1.2 Introduction of functions

We adopt the international advance biotechnology to ensure its high quality; 8 peaces AA batteries; handles can prevent the wreaking havoc; ways to open the door: 1. Fingerprint + Pin code + mechanical key; 2. Card + Pin code + mechanical key.

Card Reader Fingerprint Scanner password Mechanical key
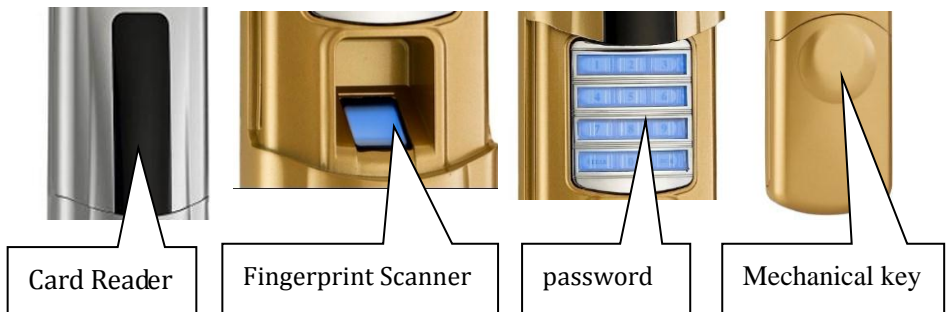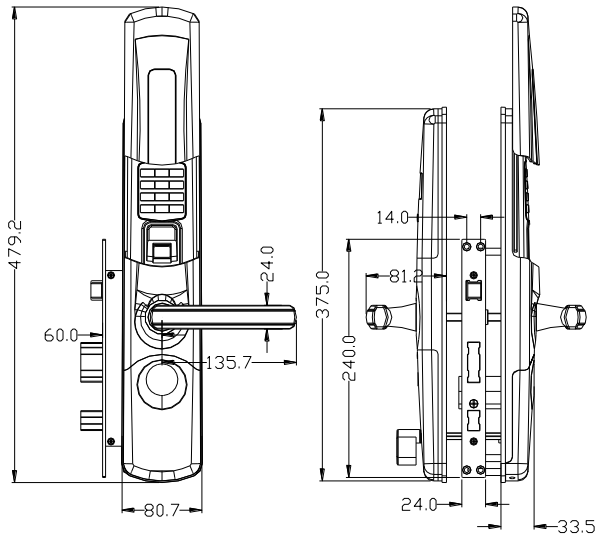
1.2   Diamensions

1.3   Technical data

No.	Items	Technical parameters
1	Sensor resolution	Bright background, 500dpi
2	Sensor damage resistance ability	1000 times of impact with 4H pencil
3	Starting time	<1 second
4	Way of contrast	1：N
5	False rejection rate	≤1%
6	Error rate	≤0.0001%
7	Finger point	360°
8	Fingerprint registration module	Create one fingerprint module at one time
9	Fingerprint update mode	Auto update
10	Fingerprint information	The fingerprint information will not lose when the battery is off or changed
11	Fingerprint capacity	100 Pieces
12	Lights interfere	Avoid explosion under high light
13	Fingerprint collector	Hard glass, nanometer surface

14			treatment
14	Static Power Consumption		< 30 u A
15	Dynamic Power Consumption		The working current is under 200 mA
16	Control system		Dicaryon dual circuit and individual control
17	The fingerprint battery life		Open door for 5000 times
18	The combination battery life		Open door for 6000 times
19	Working voltage		DC 6 V
20	Power supply mode		Battery powered
21	Combination capacity		100 Groups
22	backup power		DC 9 V
23	Low voltage alarm		4.9 V
24	Antistatic ability		Contact discharge 8KV，air discharge 15KV
25	Working temperature		-10℃ to 55℃
26	Working humidity		10% to 90%
27	Storage temperature		-20℃ to 7 0℃
28	Combination design		Random combination
29	Combination length		6-digit numbers
30	Door open method		Left open, right open
31	Card Capacity		100 Pieces

(Remark: We emphasize the technology updating, we keep the right to notice you if parameters are changed)

2   Operation

2.1   Door opening pattern
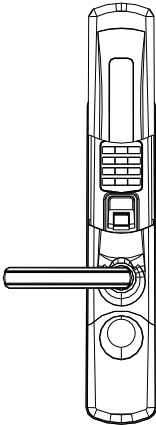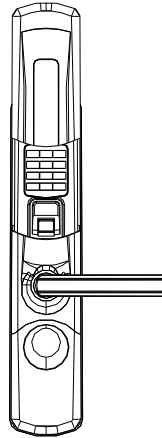
Open Left Side   Open Right Side

Open left side: If you stand outside the door, the fix butt hinge is in the left, so you have to hold the handle with your left hand. And when you open the door, the lock is opened from the left.

Open right side: If you stand outside the door, the fix butt hinge is in the right, so you have to hold the handle with your right hand. And when you open the door, the lock is opened from the right.

2.2   Ways to put the finger

Remarks: please notice to put your finger in the right position

Please put your finger on the fingerprint acquisition windows with moderate force and keep flat because the central of the fingerprint contents most of the information. Compare the right and wrong way of putting finger as below:

手指须放置在指纹采集窗中心

保持手指平放在指纹采集窗

轻轻地把手指按在指纹采集窗

保持平稳（不要向前或向后滑）
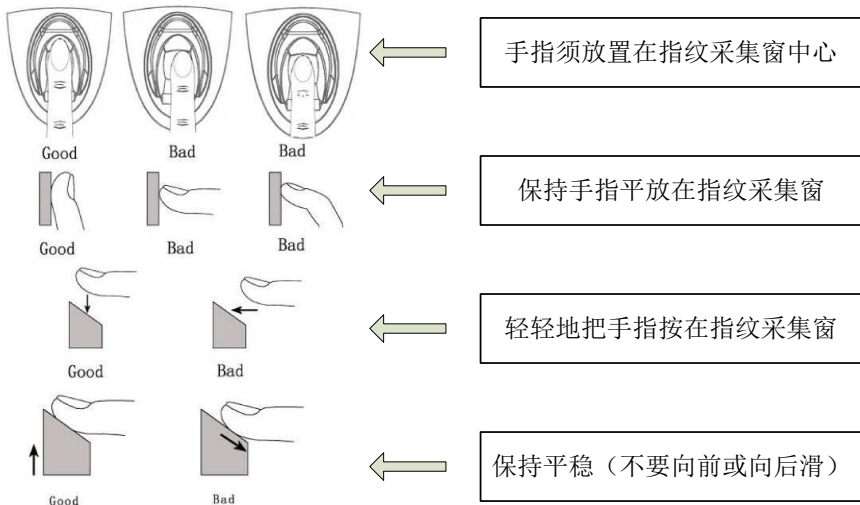
Lock-out function 反锁功能

Pull the handle upwards inside or outside the door can make it lock out and realize the function of anti-theft bolt. Rotate the small knob in the back of the lock 45 degrees, the door will be deadlock, and it cannot be opened outside in any ways.

2.3   Setting Card + password

2.3.1 Initialization: long-press the switch of initialization on the circuit board and the red light will be on. The initialization will be finished until you hear the sound of "Di" and the green light on.

2.3.2 Setting the administrator card: the first card read after initialization is the administration card, which also can open the lock.

2.3.3 Setting guest cards：read the administrator card, the elevator will rotate. Then read the administrator card again, and the system will be in the state of setting guest card. Next read a guest card and take it away. Repeat this with all of the guest cards. Last, read the administrator card again, and the elevator will rollback and exit the state of setting guest cards

2.3.4 Setting keep-open by a card: read the card to make the elevator rotate and press the handle to keep opening the door until the red light twinkles 3

8

times. Next you will hear 3 long sounds and see the green light off, then you can release the handle. Reading any administrator cards or guest cards can cancel the keep-open state.

2.3.5 Setting administrator password: After initialization, put in 6 digits numbers and then press the LOCK, this 6-digit number is the administrator password**.**

2.3.6 Setting passwords to open the door: Put in the 6-digit administrator password and press the LOCK, the elevator will rotate, then press 1, put in 6-digit number and press LOCK, put the same 6-digit number and press LOCK again. When you hear the sound of "Di-Di", press CLEAR to exit the setting state, and the elevator will rollback. This 6-digit number is the password to open the door. 49 group of passwords are available.

2.3.7 Clearing all the guest passwords: put in the 6-digit administrator passwords and press LOCK, the elevator will rotate. Then press 2 and LOCK, the elevator will rollback and all of the guest passwords will be cleared.

2.3.8 Setting keep-open by passwords: Put in the 6-digit administrator password and press LOCK, the elevator will rotate. Then press 3 and after you hear the sound of "Di-Di-Di", press LOCK and the lock will be in keep-open state. Putting in the passwords or reading the guest cards will cancel the state of keep-open.

2.4   Setting fingerprint + password + card

Door open pattern：
1. **Password：**press the key of *, the screen will be lighted and powered. Then put in the password and press 🔑. When you   hear the music, the door will be opened. The password capacity is 100 groups.
2. **Fingerprint:** open the slide cover, and put your finger on the fingerprint reader. When you hear the music, the door will be opened. The fingerprint capacity is 100 pieces.
3. **Card:** keep the opening card close to the card reader, when you hear the music, the door will open. The card capacity is 100 pieces.
4. **Mechanical keys.**

Operation Instructions：

1. **Initialization:** long-press the switch of initialization on the circuit board and do not loosen your finger until you hear the voice prompt of "……has cleared". And the initialization will be finished. At this moment there is not any effective cards or fingerprints and the administrator password is 123456.

2. **Changing the administrator password:** the default administrator password is 123456. Press " * + 🔑 + administrator password + 🔑" to enter the programming mode. Next, press 8 + 🔑 and put in a new administrator password ending with pressing 🔑 . Then put in the administrator password second time and end with pressing 🔑. The setting will be finished when you hear a long sound. This administrator password can also open the lock.

3. **Adding a guest password:** Press "* + 🔑 + administrator password + 🔑" to enter the programming mode. Next, press 7 + 🔑 and put in a 2-digit user defined password number (from 01 to 99, should be registered in the form). Then put in a guest password ending up with pressing the 🔑 and repeat this again. The setting will be finished when you hear a long sound.

4. **Adding a guest fingerprint:** Press "* + 🔑 + administrator password + 🔑" to enter the programming mode. Next, press 6 + 🔑 and put in a 2-digit user defined number for the guest fingerprint (from 01 to 99, should be registered in the form). Then put your finger on the fingerprint scanner till you hear a long sound. The setting is complete.

5. **Deleting all of the guest fingerprints and passwords:** Press "* + 🔑 + administrator password + 🔑" to enter the programming mode. Next, press 1 + 🔑 and repeat it again. When the indicator light off, all of the guest fingerprints and passwords are deleted without changing the administrator password.

6. **Deleting a guest fingerprint:** Press "* + 🔑 + administrator password + 🔑" to enter the programming mode. Next, press 4 + 🔑 and put in the 2-digit fingerprint number you want to delete and end up with pressing 🔑. Repeat the 2-digit number + 🔑 and the fingerprint is deleted.

7. **Deleting a guest password:** Press "* + 🔑 + administrator password +

🔑" to enter the programming mode. Next, press 5 + 🔑 and put in the 2-digit password number you want to delete and end up with pressing 🔑. Repeat the 2-digit number + LOCK and the password is deleted

8. **Setting keep-open state: Opening the lock by fingerprint or password,** press the handle to keep opening the door for 6 seconds until you hear the voice prompt of "the door is in the keep-open state". The setting is finished. Opening the door by fingerprint or password can cancel the keep-open state.

9. Adding a card: Press "* + 🔑 + administrator password + 🔑" to enter the programming mode. Next, press 9 + 🔑 and hold the card to the card reader. (Adding cards continuously is available)

10. Press "* + 🔑 + administrator password + 🔑" to enter the programming mode. Next, press 3 + 🔑 , and put in the number of the card + 🔑.

11. **Volume adjustment:** Press "* + 🔑 + administrator password + 🔑" to enter the programming mode. Then press 2+🔑 to adjust the volume. 1 is to decrease to volume while 3 to increase.

12. **Chinese & English shifting:** Press "* + 🔑 + administrator password + 🔑" to enter the programming mode. Next, pressing 0 + 🔑 can shift language between Chinese and English.

2.5 Alarming Function

2.5.1 Low voltage alarm

If the battery is in low power, whenever you open the door by fingerprint, password or card, the lock will alarm with the voice prompt of "power low, please replace batteries".

2.5.2 Preventing dismantling alarm

If it is dismantled or opened the outer shell by force, the lock will alarm with the sound of "DiDi…".

If the preventing dismantling alarm switch can not be shut completely when installed or other reasons, it will be alarming.

2.6 Backup power

When the batteries is totally out of power and mechanical keys are not available at the same time, please connect the 9V layer-built battery to the power interface under the front lock body to power the combination, and then put in password to open it.

2.7 Installing / replacing batteries

2.7.1 Installing batteries

Unscrew the battery cover, slide it upwards, take it away, and put in 8 pieces AA batteries of 1.5V voltage. Then put the cover back and screw it.

2.7.2 Replacing batteries

A. Using the battery of wrong model will cause explosions.
B. Please use Carbon zinc / Alkaline manganese dioxide battery of brands only.
C. Please follow the local environmental laws to handle the waste batteries.
D. If handled improperly, the waste batteries may cause explosions. Please do not charged or decompose the waste batteries or put them into fire.
E. Please do follow the manual to use batteries.
F. Please install the batteries by correct positive and negative pole following the instruction directions.
G. Please put the batteries in the places that children and pets cannot reach.
H. If the lock is not used for a long time, please take off the batteries.
I. Do not use the new batteries with the old ones together.
J. If your skin or clothes touch the liquor of the batteries, please flush with water immediately. If your eyes touch it, immediate water flushing is necessary and then go to a doctor.

2.8 Remarks

2.8.1 When you add a new user, please do record the user number for administration.

2.8.2 instruction sound remarks: The voice prompt of "successful" means successful operation, while voice prompt of "failed " means failed operation.
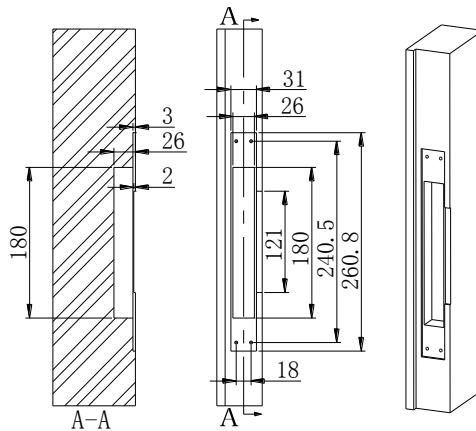
3   Installation Procedures

3.1   Opening pores on the door

This product can be used in wooden doors and anti-theft doors with thickness over 40MM.
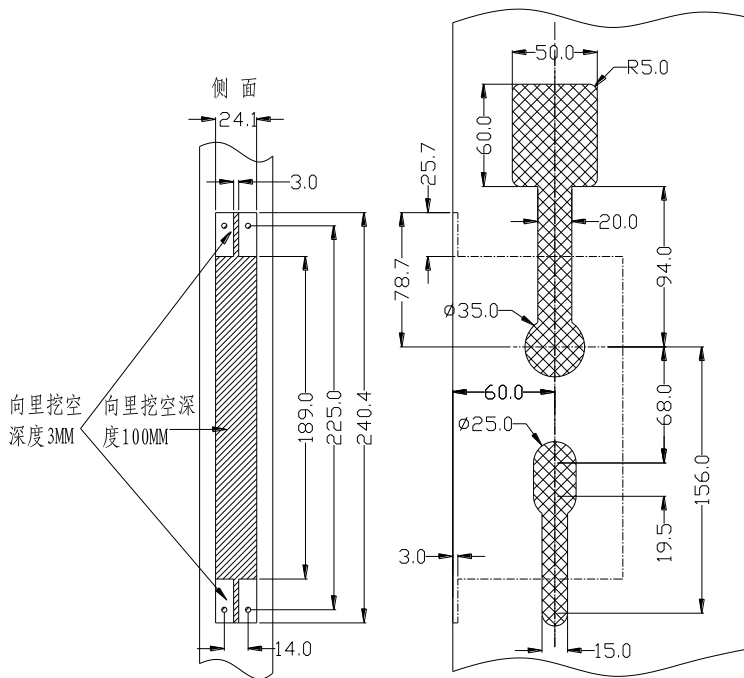
3.2 Opening pores on lock holder case

Open pores as below. Make sure they keep accordance with the lock and parallel with the door case when locking.

3.3 Installation procedures

Before installation, please put through all of the connecting wire, press the initialization button on the circuit board to initialize the lock firstly, which will also delete all of the passwords, cards and fingerprints to restore the factory setting.

3.3.1 installing lock cylinder

Following the picture below, take the lock cylinder with its connecting line on the upper side to install in the cylinder pore on the door. Please do not make the 4P line in the door. Use 4 flat countersunk head tapping screws to fix the cylinder. Then take the mechanical lock with this key pore outwards to install in the cylinder pore and use FM 5 * 65 Machine Screws to fix it. Then use the mechanical key to exam whether it can be open or not.

天地拉杆根据需要上下调动

锁芯固定螺丝FA4*25

锁头固定螺丝FM5*65

机械锁头

天地拉杆根据需
要上下调动
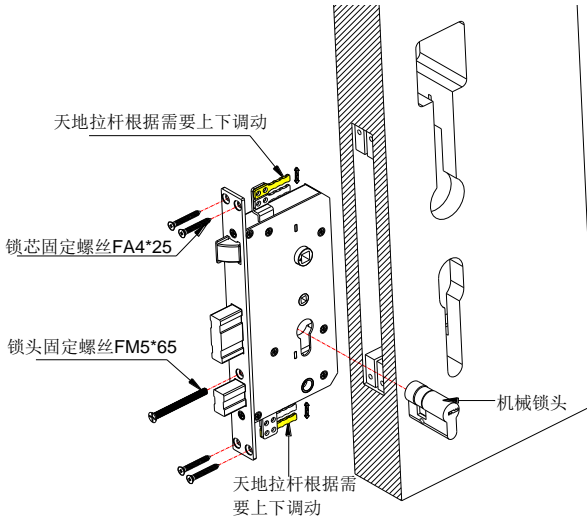
3.3.2 Installing the front and back lock body

Before installing the lock body, please check if the handle springs fall off, and put the handle square shafts into the lock cylinder. Please notice the directions of opening left and opening right: the downwards arrow is for opening right and upwards for left. As showing below, the 4P line of the front body connect the cylinder, the 3P line connect the back body and the square shaft of deadbolt should be put in the pore of cylinder. Then fix the body with 4 pieces FM 5 * 65 Machine Screws. And next load the batteries and fix the back cover 1 and back cover 2.

8节5号碱性电池　密码指纹锁后板

胶塞-螺丝盖*2

前面板3P连接线插头
（与后板连接）

密码指纹锁前板

圆头十字M3*8(*2)

后面板3P电源线

后面板电池盖1
后面板电池盖2

后把手弹簧

反锁旋钮

把手方轴
前把手弹簧

反锁旋钮方轴

取下外盖，可使用外接电源和机械钥匙

前后固定FM5*50（根据门厚调整）*4
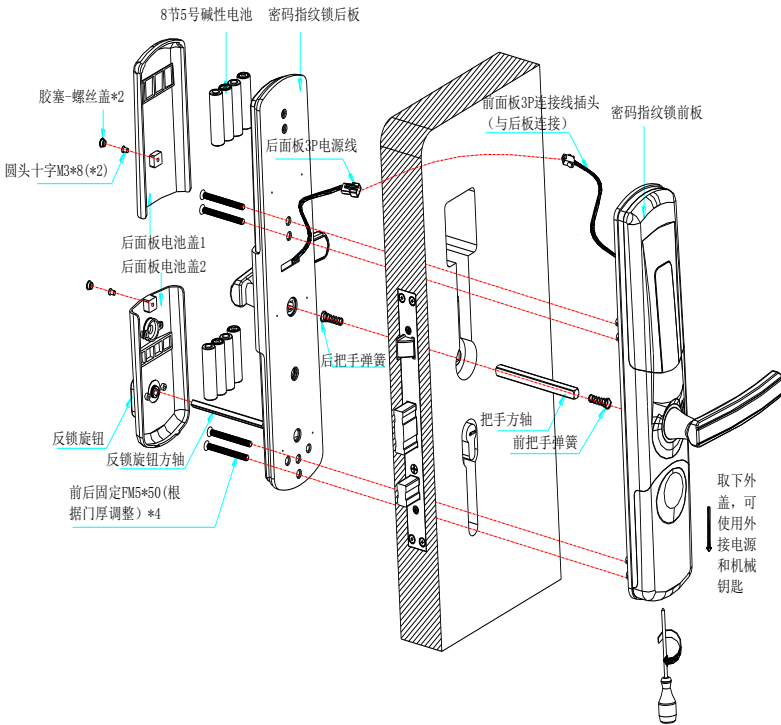
3.3.3 Installing buckle and frame in door case

Put the frame in door case, next cover the buckle, and then fix them with 4 screws. Last, please check whether the lock cylinder can work well. (use self tapping screw on wooden door and metric screws on steel door.)

門框

門扣板   門框盒
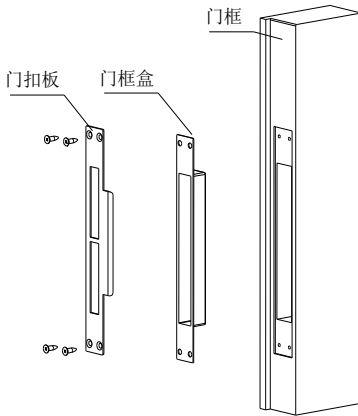
4   Maintenance and upkeep

4.1 Daily maintenance and upkeep

1、 keep the lock away from corrosives which can damage the protection layer and the luster on the lock.
2、The handle is the key part to open and close the door, and its flexibility will directly affect the use of the lock. Therefore, do not hang objects on the handle.
3. If the door is out of shape, there would be more   friction force and even make the spring bolts cannot stretch when they get into the door case. In such a case, the place of buckle should be adjust.
4. After using the fingerprint scanner for a long time, there may have dirt that affect its normal use. Please wipe the dirt with soft cloth.
5. When the low voltage alarm rings out, please replace the batteries to make sure the lock work well.
6. When replacing the batteries, please notice the positive and negative poles.
7. Please make sure the mechanical keys are in safekeeping.
8. Do not scratch the fingerprint scanner with hard or sharp objects.

9. Do not use your fingernail to scratch the fingerprint reader.
10. Please use soft cloth to wipe the fingerprint scanner surface when it is wet.
11. When acquiring the fingerprint, please put your fingerprint on the scanner flatly.
12. If the lock cannot rotate smoothly or in the wrong place, please ask a professional to add some machinery oil.
13. Please keep the rotating parts oiled to make sure their smooth drive and longer life span. Examine once half year or one year is suggested.
14. When using the lock, please put some graphite powder or pencil core powder into the lock core groove regularly or when the mechanical key cannot infix or pull out smoothly. Please do not add any lubricant oil because that may paste on the mechanical spring and hinder the lock running.

4.2 Notice for use

4.2.1   When put the finger on the fingerprint scanner and hear short sound two times, but fail to open the door:

A. This fingerprint is invalid. Elimination: use a valid fingerprint or open the door by password or mechanical key.

B. This fingerprint has been deleted. Elimination: use a valid fingerprint or open the door by password or mechanical key.

C. fingerprinted in the wrong way. Elimination: put the finger on the fingerprint scanner again. Please press the finger against the scanner and on the central. Or open the door by password or mechanical key.

D. the finger is desquamated or hurt so that the fingerprint is damaged. Elimination: 2 fingerprints of one person should be registered. Or open the door by password or mechanical key.

E. The finger is wet, dirty or with sweat or colored some skin care

product. Elimination: clean the finger with tissue and then put it on the scanner to unlock the door. Or open the door by password or mechanical key.

F. Put the finger on the scanner too lightly to scan most of the fingerprint. Elimination: Put the finger on the scanner correctly to unlock the door.

G. The direct sunlight influences the fingerprint imaging. Elimination: use any light-proof objects to shut out the light.

H. The hand is too cold. Elimination: warm up the hand and try again.

I. The hand is too dry. Elimination: moisture the hand and try again.

4.2.2　The fingerprint is recognized and the green light on, but the door is not unlocked.

A. Installation error. Elimination: install the lock correctly.

B. Hear the sound of elevator rotating, but the door is not unlocked. Elimination: 1. The handle is not back to the origin. 2. Square shaft of the handle is too short. 3. The spring of the handle in the back cover falls off.

4.2.3　The mechanical key can not open the door.

A. Using the wrong key. Elimination: use the right key to unlock.

B. The mechanical lock part is damaged. Elimination: unlock the door by other methods and then replace the mechanical lock part.

C. The cylinder is damaged. Elimination: unlock the door by other methods and then replace the damaged parts in the cylinder.

D. The clutch parts is out of work. Elimination: unlock the door by other methods and then replace the damaged parts of clutch.

4.2.4　The main spring bolt can not retract completely when the front handle turning. Reasons include:

A. The lock cylinder can not gear flexibly.

B. There is too much dirt on the oiled part of the cylinder.

C. The cylinder is installed on the door but the 天地杆 is not install correctly.

D. The connecting wires are not put in order when installing the back lock body, so that the cylinder is stuck.

4.2.5　The lock in the state of keep- open or keep- locked. Reasons include:

A. The clutching parts are out of work. (Too much oil on the clutch and flows into the elevator so that the elevator can not run well.)

B. 1. Length of the handle square shaft is not suitable. 2. The spring of the handle in the back cover falls off.

4.2.6 Put in the valid fingerprint or password, but the elevator does not work. Reasons include:

A. the wires are not connecting correctly.

B. Something wrong with the elevator.

4.2.7 No response when touch the keypad. Reasons include:

A. Out of power or the batteries installed incorrectly. (replace the battery or use external backup power)

B. Too many times of illegal operations, the keypad is auto-locked. (try again after 15 minutes)

C. Wires between the front and back lock cover are not connect correctly when installed.

4.2.8 The elevator gears normally while the front handle idles. Reasons includes:

A. The handle is not back to the origin palace.

B. 1. Length of the handle square shaft is not suitable. 2. The spring of the handle in the back cover falls off.

4.2.9 No response after the batteries installed. Reasons include:

A. Wires between the front and back lock cover are not connected probably.

B. the wires are broken when installed.

5 After-sale Service

5.1 Remarks about after-sale service

5.1.1 One-year warranty service since the date of purchasing.

5.1.2 Cases as below are not covered by the warranty and we will charge the fee when repairing the lock.

（1）Products are beyond the maintenance deadline or purchased through irregular way.

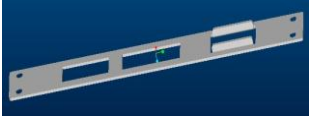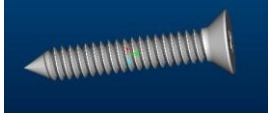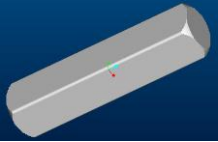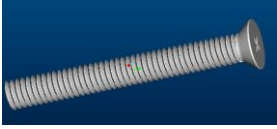（2）Damages caused by improper operation, dissembling the cover, man-made sabotage or other force majeure.
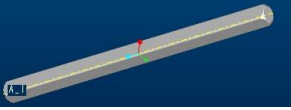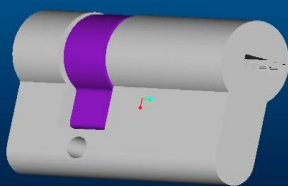
（3）Locks repaired in unassigned maintenance stations.

5.1.3 Life-long maintenance. Maintenance after one year will be charged.

5.2　Packing List

No.	Items	Quantity
01	Front lock case	1 set
02	Back lock case	1 set
03	Lock cylinder	1 set
04	Door buckle	1 piece
05	lock holder case	1 piece
06	Cross Recessed Oval Countersunk Head Screws（adaptation)	4 piece
07	Square shaft: 8x8xL(adaptation)	1 piece
08	Screws to fix cylinder and buckle (adaptation)	4 piece
09	Mechanical Key	1 set
10	User manual of fingerprint lock	1 piece
11	Mould for opening pores of fingerprint lock	1 piece
12	QC test label（Genera）	1 piece
13	warranty card	1 piece
14	Certificate of Approval	1 piece

5.3   Accessories

frame in door case	Door buckle	Screws: PA4.0X25
Square shaft of handle	Bolts: OM8.0XM5XL	Square shaft for lock-out
Mechanical cylinder	Mechanical keys: 2pieces	