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www. **linkfair**.com.cn
www. **linkmath**.com.cn

LINKMATH™

New version LP-801/ LP-802

FINGERPRINT LOCK
USER'S GUIDE

Produced by
Linkfair & Polymath Tech Co.Ltd. of Linkfair Group

● Foreword

Thank you for purchasing the product of our company!

The world's most advanced technology

---fingerprint identifying technique and micro-

electronics technique have been applied in this product.

and It's the comprehensive fruit of electronic technique,

optical technique, mechanical technique and surface

processing technique.

Also it's one of the most advanced locks nowadays.

Before installing and using this product, please read the

user's guide carefully.

WHOLE PROCESS SERVICE

National 24 hours Free service on hot-line:

800-830-5550

Guaranteed period: One year(from the day you purchase it)

● Fingerprints registration records

Fingerprint Code	Name	Fingerprint				
	1	Left: ☐ Thumb ☐ Forefinger	☐ Middle finger	☐ Ring finger	☐ Little finger	
		Right: ☐ Thumb ☐ Forefinger	☐ Middle finger	☐ Ring finger	☐ Little finger	
	2	Left: ☐ Thumb ☐ Forefinger	☐ Middle finger	☐ Ring finger	☐ Little finger	
		Right: ☐ Thumb ☐ Forefinger	☐ Middle finger	☐ Ring finger	☐ Little finger	
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Left page

Ⅷ Fingerprints registration records

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21

Contents

2

Ⅷ Fingerprints registration records

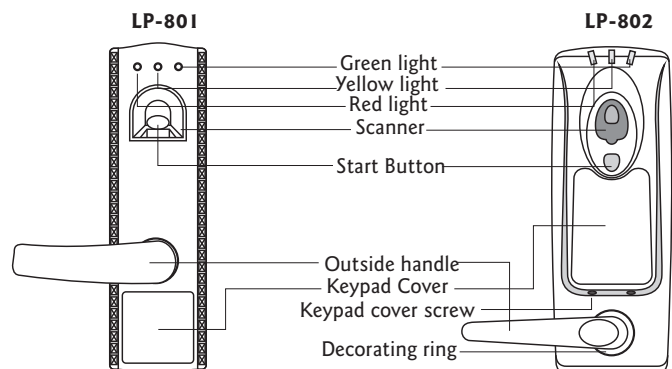| Fingerprint Code	Name	Fingerprint
	1	Left: □Thumb □Forefinger □Middle finger □Ring finger □Little finger Right: □Thumb □Forefinger □Middle finger □Ring finger □Little finger
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Contents

Ⅰ.Product characteristics --- 4
Ⅱ.Construction and function of the fingerprint lock ------------------------------------- 4
  Construction of the fingerprint lock-- 4
  Dissection diagram of the lock --- 6
  Function for each device---8
Ⅲ.Installation of the product--- 9
  Installation diagram --- 9
  Installation steps---11
  Notice for installation---11
Ⅳ.System setting--12
  Registering fingerprint--12
  Deleting fingerprint---13
  Password system enactment---14
  Reset---15
  Notice for system settings --15
Ⅴ.System operation---16
  Open the lock with fingerprint ---16
  Open the lock with password ---16
  Open the lock indoors---16
  Reverse locking indoors --16
  Emergency disposal ---16
Ⅵ.System maintenance and troubleshooting---17
  System maintenance --17
  Troubleshooting ---18
Ⅶ.Notice for order --20
  Attach: Right ways of registering fingerprints--21
  Specification---22
Ⅷ.Registration form of fingerprints---23

FINGERPRINT LOCK

Ⅰ Product characteristics

◆ **Convenient usage:** No key is needed. Use your finger, after identifying and comparing, the lock will be opened immediately. Also the indoors infrared remote-control can be equipped in your demand.

◆ **Double system control:** Two control systems-- fingerprint and password systems

◆ **Memory capacity:** store 30 fingerprints, and can be extended to 640 in your demands.

◆ **Password:** maximum digits for the password is ten.

◆ **Double power supplies:** Two independent sets of power supplies---inside and outside for system.

◆ **Five-tongues lock core:** ensured security highly.

◆ **Indoors reverse locking:** Reverse locked indoors, then it can't be opened with finger-print or password.

◆ **Beautiful shape:** Designed according to human engineering principle, The surface would not easily fade in color because it has been adopted with the most advanced exterior disposal technique.

Ⅱ Product constructions & functions

Ⓐ **Lock construction** (see the Dissection Diagram of the Fingerprint Lock) Sketch map of the lock body & parts name

LP-801   **LP-802**

Green light
Yellow light
Red light
Scanner

Start Button

Outside handle
Keypad Cover
Keypad cover screw

Decorating ring

● Technical Reference Data

ITEM	CONTENTS
New version Lp801 Size	Inside:280(L)X82(W)X26(H)mm Outside:280(L)X82(W)X26(H)mm
Lp802 Size	Inside:226(L)X80(W)X25(H)mm Outside:226(L)X80(W)X23(38)(H)mm
Registration capacity	Standard capacity 30pcs, extendable to 640pcs
False Rejection Rate	0.01%
False acceptance rate	0.0001%
Processing time	1-2 seconds
Lock controlling ways	Clutch
Dynamic power-consumption	70mA-300mA
Static power-consumption	<12 uA
ESD anti-pressure ability	>15000V
Battery life	4000-5000times
Power required	5pcs 'AA' alkaline batteries
Materials of LP/801	Zinc-aluminum alloy
Materials of LP/802	Stainless steel
Working temperature	- 10 - 45℃
Working Moisture	20% - 80%

Appendix: Right ways of pressing finger

● Right ways
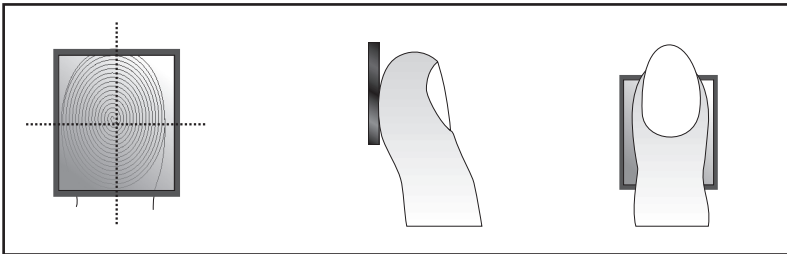
● Wrong ways
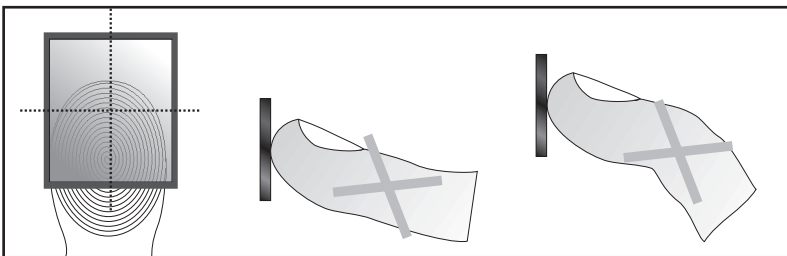
■ Press the finger on the central part of the scanner.

LP-801   LP-802

Battery cover

Remote control receiver

Inside handle
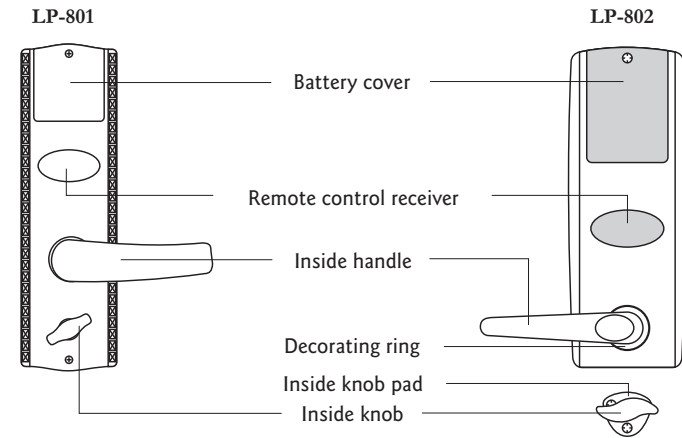
Decorating ring

Inside knob pad

Inside knob

Figure 2   Sketch Map of the Reverse Lock Body

● **Lock body:**
It includes inside parts, outside parts, lock buckle board and lock buckle box.
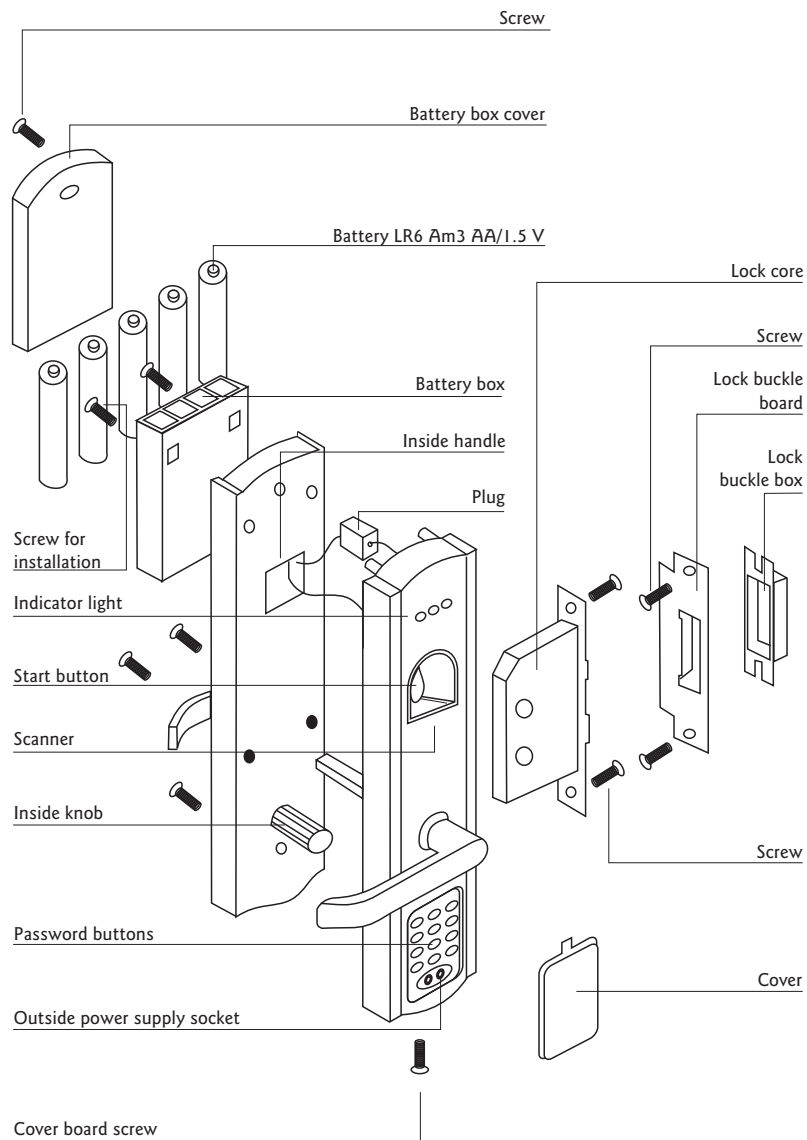
● **Inside parts:**
Mainly includes inside power supply, remote control receiver, inside handle and inside knob.

● **Outside parts:**
Mainly includes fingerprint identifier, indicator light, function buttons, password keypad, outside power supply sockets and outside handle.

● **Five-tongues lock core:**
Mainly includes tilted tongue, square tongue, safety tongue, etc.

Screw

Battery box cover

Battery LR6 Am3 AA/1.5 V

Lock core

Screw

Battery box

Lock buckle board

Inside handle

Lock buckle box

Plug

Screw for installation

Indicator light

Start button

Scanner

Inside knob

Screw

Password buttons

Cover

Outside power supply socket

Cover board screw

Ⅶ Notes for order

Please confirm the following items when ordering:

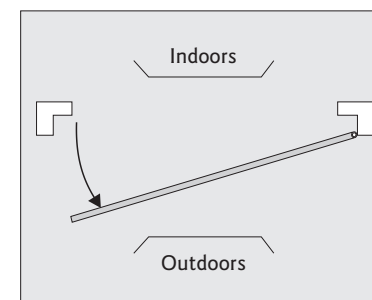Ⓐ Doors opened at left or right
& Doors opened indoors or outdoors
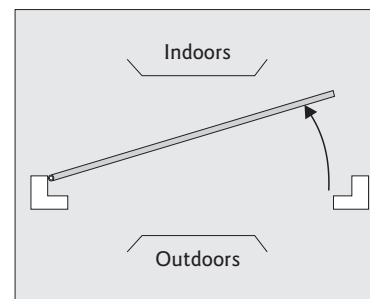
Indoors

Outdoors

● **Left-opened indoors**
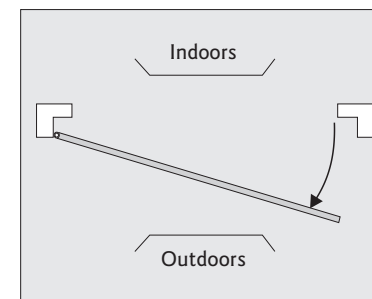
Indoors

Outdoors

● **Left-opened outdoors**
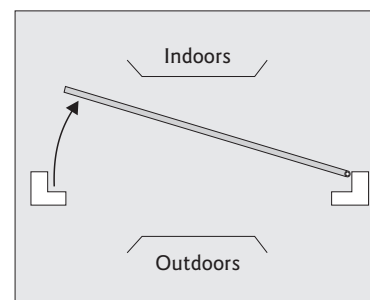
Indoors

Outdoors

● **Right-opened indoors**

Indoors

Outdoors

● **Right-opened outdoors**

Ⓑ Troubleshooting

Misuse and misoperation of the lock may cause some breakdowns. Solve as the table .

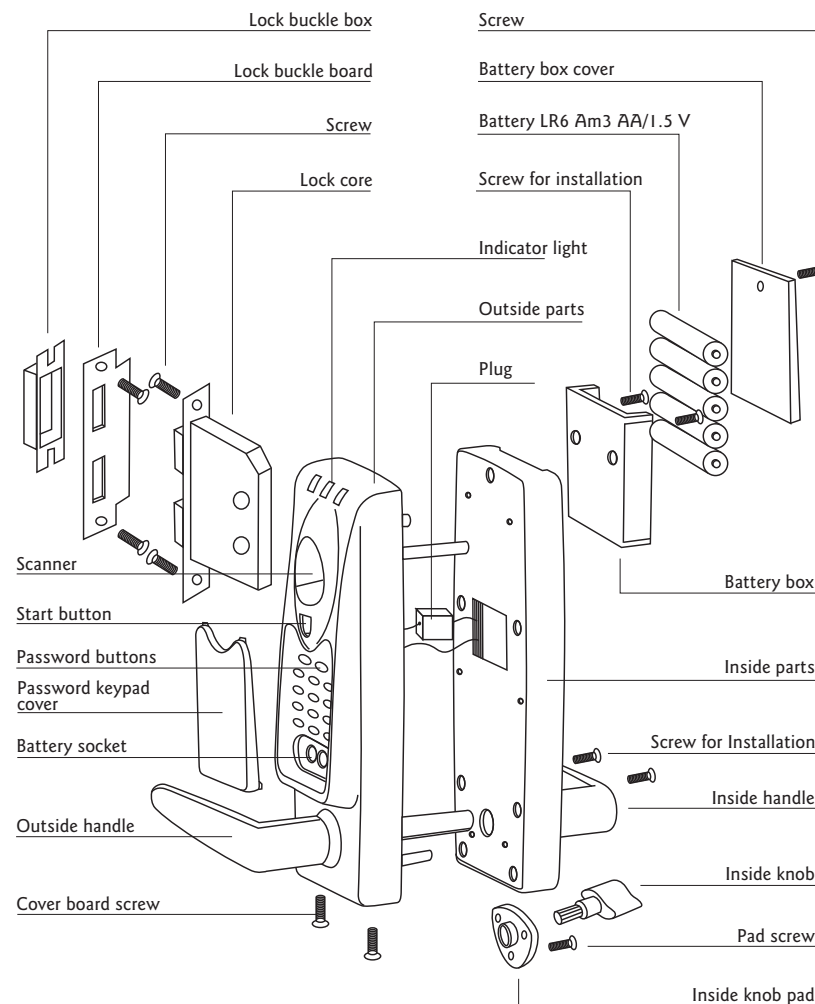| Serial number	Breakdowns	Reason for breakdowns	Handling ways
1	The door lock can't belocked after opened.	•Low power •The electric-mechanical clutch damaged •Circuit parts damaged	Replace battery mend the clutch mend or replace the circuit parts
2	When starting system, the red light shining with the sound 'Di' beeping.	•Low power •The plug-in is not connected well •Circuit parts damaged	Replace battery Check the plug-in Mend the electronic parts
3	The lock has been opened but the system repeat the operations	•The start button did not reposit	Press the start button to reposit it
4	The system can't be started after pressing the start button.	•Low power •Circuit parts damaged	Replace the battery Open the door lock with password system and mend the circuit parts
5	Sometimes the lock can be opened with fingerprints but sometimes not.	•The fingerprint is too bad to identify and compare.	Input another fingerprint
6	Fingerprint deletion failed.	•Low power •Input the manager's fingerprint falsely •The reset button is not connected well	Replace the battery Repeat the operation Mend the circuit parts
7	After the door lock installed, the tilted tongue pop-up but the height is inadequate.	•The width of the installing hole is not enough •Turning of the handle blocked	Finish off the installing-hole Fix mechanical parts of the lock-core
8	registering fingerprint failed.	•Low power •The setting buttons is not well connected •Error with the manager's fingerprint or fingerprint pressing method	Replace battery Check the circuit parts Confirm the manager's fingerprint and press it correctly.
9	The fingerprint can't be identified and compared after the system started.	•Low power •Batteries damaged	Replace batteries
10	After the batteries replaced, the indicator light shows well, but the lock can not be opened.	•Breakdown with the electric-mechanical clutch •Battery voltage over-high	Replace the battery
11	When opening the lock, the handle and the clutch can't mesh well.	•The clutch-trough of the handle damaged Low power •The clutch can't get into position	Replace the handle Replace the battery

Notice:

If the breakdown can't be obviated independently, please contact with the franchiser or customer service hot line of LINKFAIR GROUP.

● Dissection Diagram of the Fingerprint Lock

LP-802

Lock buckle box
Lock buckle board
Screw
Lock core
Scanner
Start button
Password buttons
Password keypad cover
Battery socket
Outside handle
Cover board screw

Screw
Battery box cover
Battery LR6 Am3 AA/1.5 V
Screw for installation
Indicator light
Outside parts
Plug
Battery box
Inside parts
Screw for Installation
Inside handle
Inside knob
Pad screw
Inside knob pad

B Function of each device

Inside power supply: Supply power for the fingerprint and password system.

Fingerprint identifier: Scanning and identifying fingerprints.

Indicator light: Display operating situation.

● Red light: Shows unsuccessful operation. .

● Yellow light: Shows working condition of the lock.

● Green light: Shows successful comparison or registering.

Password keypad: Input password to open the door when fingerprint system breakdown.

Outside power supply socket: Supply power for system when inside power breakdown.

Inside knob: Reverse locking.

C Main functions of the product

1) Number 01,02,03 are managing fingerprint. That can not only open the lock but also register or delete other user's fingerprints. User's fingerprint only be used to open the door.

2) Indoors reverse locking

The inside knob can make reverse locking. Turn the inside knob, then the square tongue would springs out and lock in reverse, now the fingerprint lock can not be opened by fingerprint or password.

3) Weak power alarming

When system power is lower than 4.55V, the system would beep 'Di' to remind you after the lock opened. At the same time, the flashing of the red light tells that the battery should be replaced.

4) Double system

The fingerprint lock has two unlocking systems. One is the main system--- fingerprint systems, the other is password system, which is available in emergency. When fingerprint system break down, please open the lock with the password system.

5) Guard against tilted insertion

The lock body adopted the style of core-inserting with five lock-tongue. Lock the door, then the safety tongue can make sure that the tilted tongue would not be opened by tilted inserting things.

6) Trying-forbidden function

The fingerpint system and password system of this lock have trying - forbidden function to prevent malicious usage. Input wrong fingerprint for five times, the fingerprint system would enter 5 minutes dormancy situation. At this time, the password system are still functional.

VI Systems maintenance and Troubleshooting

A System maintenance

Daily maintenance can extend longevity, lower breakdown-rate and improve reliability of the lock.

1) Replace the battery right away when the system shows weak power,

2) The password system is used to meet an emergency, protected it when not in use.

3) Use high energy batteries for supply steady power longer time.

4) Pay attention to replace batteries, such as short circuit, grounding and polarity.

5) Aperiodically register and change the users' fingerprints and passwords to meet the security demand of the lock.

6) In order to ensure the normal usage of the lock, the fingerprint system should be resumed on time after opening the lock with password.

7) The fingerprint lock can't be wiped with gasoline or acetone and it can't always get to volatile gases. When cleaning the lock, please wipe the lock with flannelette, which bedewed with litmusless soap-water. In the same time, for protecting the lock, make sure that there is no any water flow into it and damage the electronic parts.

Ⅴ Systems operation

★The setting password should be recorded so that it can be used to meet an emergency.
★The registered fingerprints and the set passwords should be tested to confirm the corre ctness of settings.
★Take out the inside batteries and connect outside batteries, then open the lock with password to confirm the efficiency of the outside power supply.

Ⓐ Open the lock with fingerprint system

1. Press the button (Start), then the system started.
2. The sound 'Di' beeps, then the yellow light shining and the scanner light flashing. Now press the fingerprint on the scanner.
3 If the verification is successful, the green light would turn on, then you can turn the outside handle to open the lock.
4 If the verification failed, the yellow light is off, then four sounds 'Di-Di-Di-Di' beeps and the red light flashing. At this time, you should check if the fingerprint has been registered or your pressing method is correct, then repeat the operation.

Ⓑ Open the lock with password system

Input the set password, then press button (#) to open the lock. For example, if the password is '123456', input '123456', then press the button (#) and turn the outside handle to open the lock.

Ⓒ Open the lock indoors

Turn the inside knob, then turn the inside handle to open the lock.

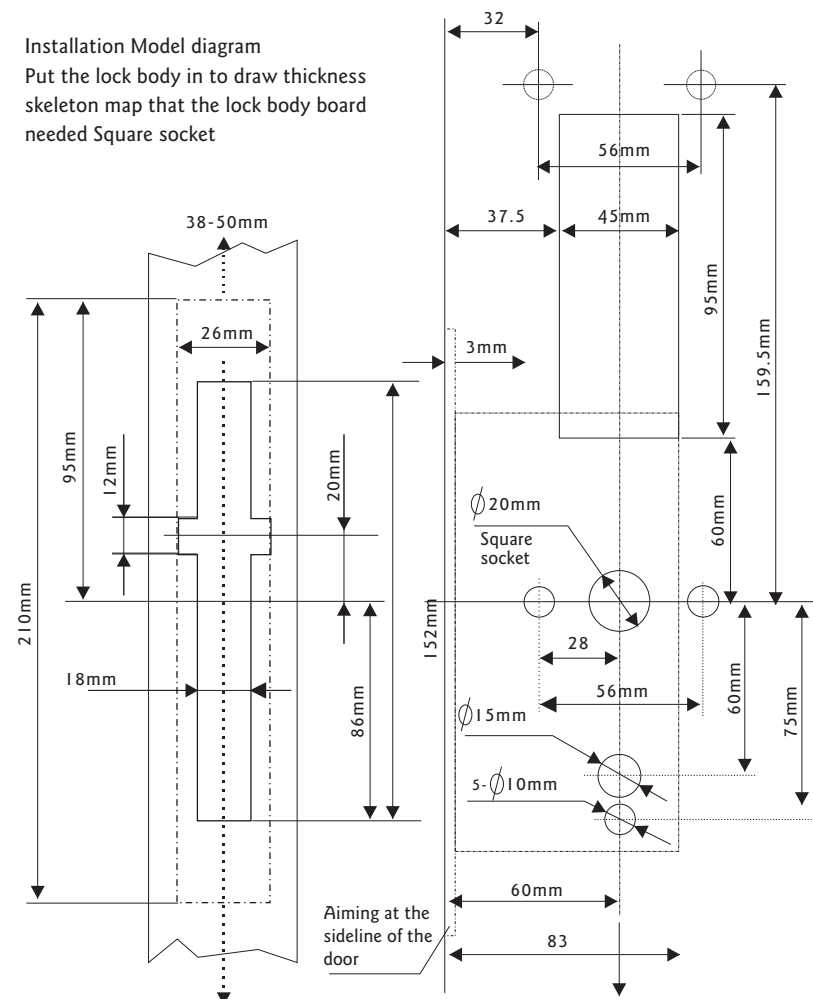### Ⓓ Indoors reverse locking

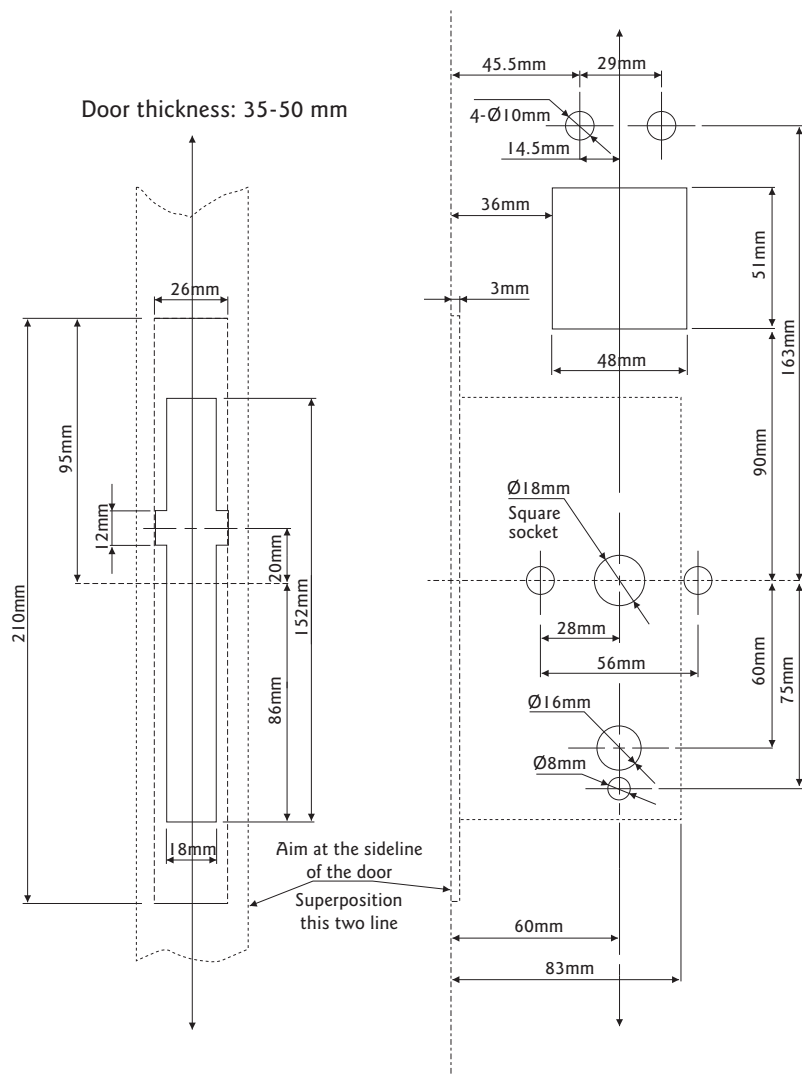Turn the inside knob indoors, the big square tongue springs out, then reverse locking complete.

Ⓔ Emergency handling

Open the password keypad cover while fingerprint system disabled. If inside power supply is normal, input the password to open the lock. If inside power supply breakdown, connect 9 volt outside battery with the outside power supply socket, then input the password to open the lock.

Ⅲ Product's installation

New version LP-801

Installation Model diagram
Put the lock body in to draw thickness skeleton map that the lock body board needed Square socket

Installation Model Diagram for LP-802

Door thickness: 35-50 mm

45.5mm 29mm
4-Ø10mm
14.5mm
36mm
3mm
48mm
51mm
163mm

26mm
95mm
12mm
210mm
20mm
152mm
86mm
90mm
60mm
75mm

Ø18mm
Square socket
28mm
56mm
Ø16mm
Ø8mm

18mm   Aim at the sideline of the door
Superposition this two line
60mm
83mm

---

(2) Change the password

Input the previous password before change it,then press the button ✱.After the green light flashed for three times, input the new password. Now press the button ✱ again. Input the new password again to confirm it after the green light flashed for three times, then press the button ✱. For example, if the original password is '1234'and the new pass-word is '123456', then the setting operation should be '1234 ✱ 123456 ✱ 123456'. If the green light flashes for three times, it shows that the change is successful. If the red light flashes for three times, the operation failed.

Four.The operation of the trying-forbidden functin

(1) startup dormancy press the button ✱,press the password, then press the button 1.

(2) Close dormancy press the button ✱,press the password, then press the button 0.

Five.Reset

Under unworking situation of the lock, open the battery box,press the mini-sized (reset) button which beneath the battery box but above the central location of the circuit board. In the same time, press the (Start) button to start the system. When yellow light, red light and green light shining simultaneously, loosen the two buttons. The sound 'Di' shows that system begins cleaning all of the fingerprints and passwords memorized in the lock. A few seconds later, the six sounds 'Di-Di-Di-Di-Di-Di' shows that the operation is successful. On the contrary, a long sound and the flashing red light shows that the operation failed. Then please repeat the operation steps mentioned above.

Notice:

After reset, the password restored to '0'and just press the "start"button can open the lock, Please use this function cautiously.

Six**. Notices for system settings**

Under initial situation, the fingerprint system needs not to be verified. Start the system, then the lock opened. For the password system, the password is '0' under initial situation. So the fingerprint system and password system should be set up on time after the lock installed to guard against any insecurity factors.

★ Accurate replacement of each button should be ensured after the system was set up.

★ Number 01,02,03 fingerprints registered by the system are the managers' fingerprints, others are the common users. Only the managers' fingerprints have the rights of register-ing and deleting the fingerprints of common users. The common users' fingerprints can only be used to open the lock. For ensuring the security of the system, the managers' fingerprints should be registered to those who in charge of the lock.

★ The battery cover should be put back after the mini-sized (reset) button used.

(4)Register fingerprint

The scanner light flashing while the yellow light blinking, at this time press anther finger or other user's finger you want to be registered on the scanner. When the light is off, remove your finger.

(5) Confirming fingerprint

The yellow light blinks as two sounds 'Di-Di' beeps. Then after the scanner light blinked, press that finger again on the scanner. If the sound 'Di' beeps and the green light flashes for three times, it shows the fingerprint registration are successful.

Notice:

During the operation process, if the red light shining and four sounds 'Di-Di-Di-Di' beeps, it shows the operation is unsuccessful. Find out the reason and repeat the operation mentioned above. If still not successful, change the finger and try again.

Two. Deleting fingerprint

(1) Start the system

Press the button Del to start the system, the red light shining and the scanner light flash once , then the sound 'Di' beeps, it shows that the deletion operation has been started.

(2) Validate the fingerprint

The yellow light shining, then the collection light blinks. Now press the registered manager's fingerprint. Remove the finger when the collection light is off. If two sounds 'Di-Di' beeps, it shows that the validation is successful.

(3) Delete the fingerprint

Continuously input the fingerprint code for twice to delete it. For example, if the code is '08', just input '0808'. If two sounds 'Di-Di' beeps and the green light flashed for three times, it shows that the fingerprint deletion operation is successful. If four sounds 'Di-Di Di-Di' beeps, it shows that the operation failed. Then find out the reason and repeat the operation steps mentioned above.

※New version fingerprint lock LP-801 and LP-802 are the same in the operation of their password system settings and system thorough-cleaning settings. Their detailed operation are just as following.

Three. Password system settings

The password can be formed at random by the ten numbers from 0 to 9. Please make the most of the ten numbers in the password to ensure the security.

(1) Password setting up

The initial password of the door lock is ⓪. When setting up the new password, first press the button ⓪,then press the button ✳,then input the new password and press the button ✳ again. After the green light flashes for three times, input the new password once more and then press the button ✳. If the green light flashes for three times,it shows that the password setting operation is successful. If the red light flashes for three times, it shows that the operation failed and need to be done again. For example, if the password is '1234" the setting operation should be ⓪ ✳ 1234 ✳ 1234 ✳ .

Ⓐ **Door lock installation steps**

Step One:

According to the installation card, line out relative holes' contour line and central line on door, then drill the holes.

Step Two:

Check if the holes' location of the lock body consistent with the installing holes' location. If it's all right, press the parts into the lock body, and fix it with screws. After that, please check the spring situation of the lock tongue.

Step Three:

Pull the leads and check the location of every installing hole, then fix the outside parts on the door.

Step Four:

Join the leads connecting plugs of inside and outside handle parts. The connection must be precisely and reliable. Then connect the square axis with the knob axis. Make sure that the inside and outside handle parts are reliably connected with lock body. After those steps, screw down the fixing bolts of the inside and outside handle parts.

Step Five:

The battery should be enclosed as the polarity marks in the battery box cover shows. After that, screw down the fixing bolts of the battery box cover.

Step Six:

Check the correctness of the installation to prepare for the system settings. Press the start button, when green light blinks, turn the handle to open the lock.

Ⓑ **Notices in installation**

* Protect the leads for preventing circuitry damage.
* Ensure the transferring tie-in of the leads connected correspondingly.
* Place the square axis to right direction as it marked.
* Enclose batteries correctly as the polarity marks shows.
* Drilled holes for installation and the door board should be at the vertical position. Holes' location should be precisely.
* The hole of lock tongue should be ensured that the tilted-tongue could spring and replace correctly and swiftly.

IV System settings

* LP-801 series fingerprint lock operation

One. Register fingerprint

A The first fingerprint registration

(1) Start the system

Press the button ✳, then press the button ⓪. The green light shining for a little while and then it sparkles for three times, then the sound 'Di' beeps. This shows the system registration operation has been started.

(2) Register fingerprints

The scanner light flashing while the yellow light blinking, at this time press the finger you want to be registered on the scanner. When the light is off, remove your finger.

(3) Confirm the fingerprint

The yellow light blinks as two sounds 'Di-Di' beeps. Then after the scanner light blinked, press that finger again on the scanner. If the sound 'Di' beeps and the green light flashes for three times, it shows the fingerprint registration are successful. The system would recognize the first registered fingerprint as the 'No.1' manager's fingerprint.

B Fingerprint Registration

(1) Starting system

Press the button ✳, then press the button ⓪, if the green light shine for a while and the sound 'Di' beeps, it shows the system registration operation has been started.

(2) Validating fingerprint

As the yellow light and the scanner light shining, press the manager's fingerprint to check if it is right. After the scanner light is off, remove your finger. If two sounds 'Di-Di' beeps, it shows the fingerprint validation is successful.

(3) Input the code

Continuously input the fingerprint code twice you want to be registered. For example, if the code is '02', then input '0202', if the code is '18', then input '1818'. If a sound 'Di' beeps, it shows the code input successfully.

(4) Register fingerprint

The scanner light flashing while the yellow light blinking, at this time press anther finger or other user's finger you want to be registered on the scanner. When the light is off, remove your finger.

(5) Confirming fingerprint

The yellow light blinks as two sounds 'Di-Di' beeps. Then after the scanner light blinked, press that finger again on the scanner. If the sound 'Di' beeps and the green light flashes for three times, it shows the fingerprint registration are successful.

Notice:

During the operation process, if the red light shining and four sounds 'Di-Di-Di-Di' beeps, it shows the operation is unsuccessful.Find out the reason and repeat the operation mentioned above. If still not successful, change the finger and try again.

Two. Deleting fingerprint

(1) Start the system

Press the button # to start the system, the red light shining and the scanner light flash once ,then the sound 'Di' beeps, it shows that the deletion operation has been started.

(2) Validate the fingerprint

The yellow light shining, then the scanner light blinking. press the registered manager's fingerprint. Remove the finger when the light off. If two sounds 'Di-Di' beeps, it shows that the validation is successful.

(3) Delete the fingerprint

Continuously input the fingerprint code for twice to delete it. For example, if the code is '08', just input '0808'. If two sounds 'Di-Di' beeps and the green light flashes for three times, it shows that the fingerprint deletion operation are successful. If four sounds 'Di-Di-Di-Di' beeps, it shows that the operation failed. Then find out the reason and repeat the operation steps mentioned above.

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* LP-802 series fingerprint lock operation

One. Inputting fingerprint

A The first fingerprint registration

(1)Start the system

Press the button (Add), then the green light shining for a little while and then it sparkles for three times, now a sound 'Di' beeps, this shows the system registering operation has been started.

(2)Registering fingerprints

The scanner light flashing while the yellow light blinking, at this time press the finger you want to be registered on the scanner. When the light is off, remove your finger.

(3) Confirm the fingerprint

The yellow light blinks as two sounds 'Di-Di' beeps. Then after the scanner light blinked, press that finger again on the scanner. If the sound 'Di' beeps and the green light flashes for three times, it shows the fingerprint registration are successful. The system would recognize the first registered fingerprint as the 'No.1' manager's fingerprint.

B Fingerprint registration

(1) Starting system

Press the button (Add), then the green light shine for a while and the sound 'Di' beeps, it shows the system registration operation has been started.

(2) Validating fingerprint

As the yellow light and the scanner light shining, press the manager's fingerprint on the scanner to check if it is right. After the scanner light is off, remove your finger. If two sounds 'Di-Di' beeps, it shows the fingerprint validation is successful.

(3) Input the code

Continuously input the fingerprint code you want to be registered for twice. For example, if the code is '02', then input '0202', if the code is '18', then input '1818'. If a sound 'Di' beeps, it shows the code input successfully.