LOTUS®

Performance, Delivered.™

Smart Entrance Leverset

X91

I, Product introduction
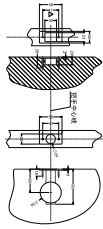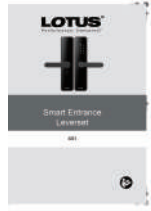
1、Product parameters

Power supply	4.5~6.5v (4AAA batteries)		Resolution	500DPI
Static current	＜65 Ma		Rejection rate	≤1.0%
Working current	＜200 Ma		False recognition rate	≤0.001%
Fingerprint Capacity	≤100		Working temperature	-10°C ~60°C
Cards Capacity	≤300		Relative humidity	20%RH~93%RH
Password Capacity	≤300			

2、Product dimensions

Front Panel   Side Part   Back Panel
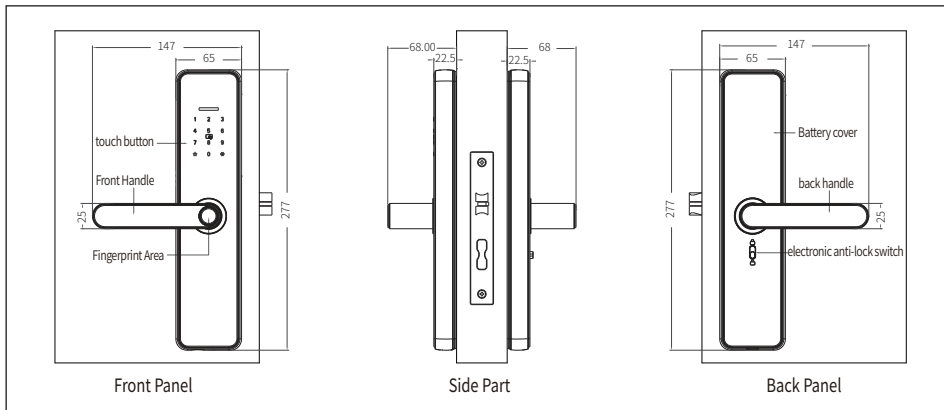
3、Packing list (accessories in kind prevail, pictures are for reference only)

1.front panel	2.Back panel	3.Drilling template	4.User Manual and Warranty Card	5.Door gusset plate
7.lock mortise	8.Square shaft	9.Installation screw	10.Mechanical keys	6.Strike box / 11.Tapping screw

II, Installation Guide

1、installation conditions

    1.1、Door thickness
- Door lock border ≥110 mm (thickness of inconsistent doors)
- 35mm≤door thickness ≤60mm(custom accessories are required when size exceeded)

    1.2、Opening direction

indoor	wall	indoor	indoor	wall	indoor
door		door	Left outside		Right outside
Left inside		Right inside	door		door
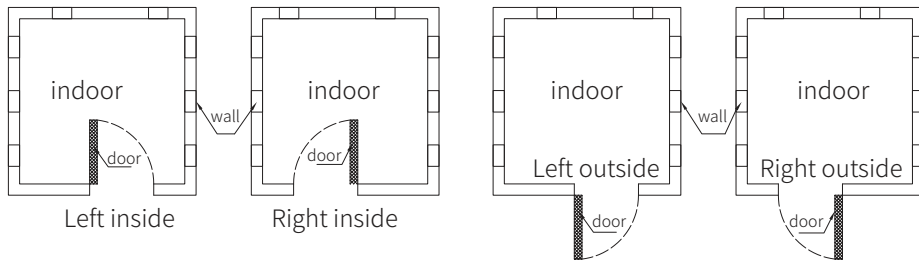
2、Installation tool (for reference only)

1.manual electric drill	2.pencil	3.tape ruler	4.hammer	5.bit
6.hacksaw	7.angle ruler	8.screwdriver	9.Cutter	10.chisel

3、Drilling template
(for reference only)

23
17.5
151
105

72
Ø15
50
3
36
52
177
Ø25
89
Ø15
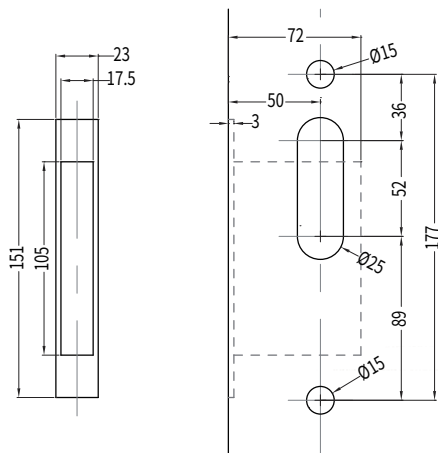
4、Lock mortise open direction change

According to their actual needs, the internal and external opening directions of the lock are changed as follows

Oblique tongue reversing pick

Inclined tongue

⚠ It is forbidden to remove and install the side lath of the locking body without permission

①Pull the oblique tongue reversing pick to the other end.
②Push the oblique tongue into the locking body and turn it 180 degrees.
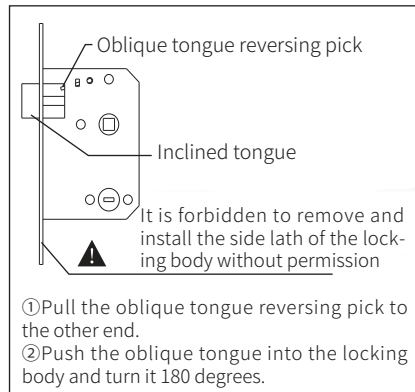
5、Handle direction change and square axis position adjustment

According to the actual needs of their own, with a screwdriver inserted into the iron plate arrow pointed to the round hole twist loose screws, according to the actual left or right open need to turn the handle 180 °, and then tighten the screws.

Warm Tips: Please do not disassemble the screws in the handle hole, disassembly caused by failure do not do warranty!

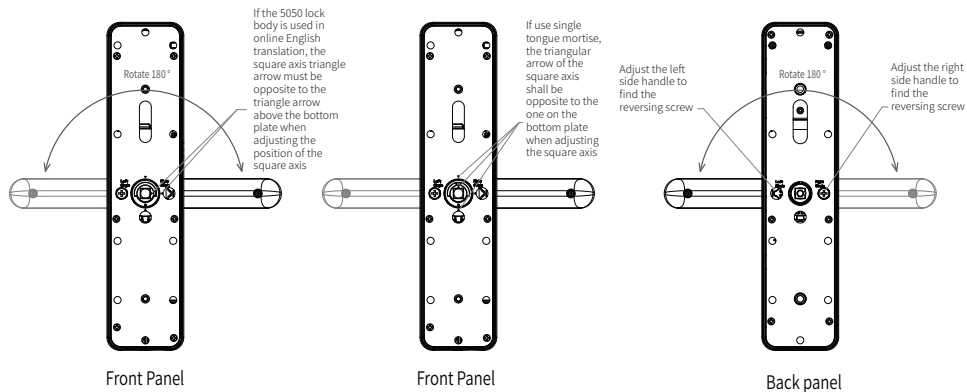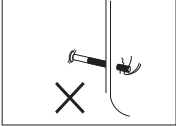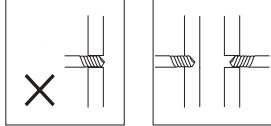**Note:** when disassembling the reversing screw, lift the handle slightly, aim at the reversing screw to disassemble, and then lock the reversing screw after changing

If use single tongue the square axis needs to be adjusted in the middle position
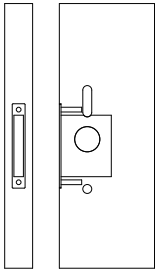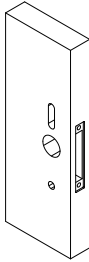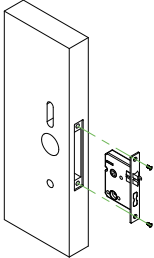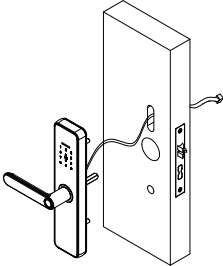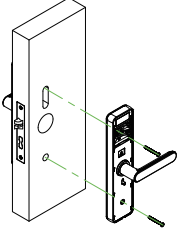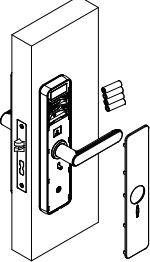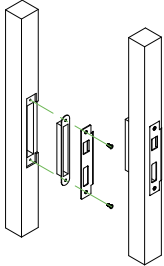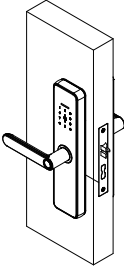
Note: After removing the reversing screw for left and right reversal, turn the handle 180 degrees before locking the reversing screw.

If the 5050 lock body is used in online English translation, the square axis triangle arrow must be opposite to the triangle arrow above the bottom plate when adjusting the position of the square axis

Rotate 180 °

Front Panel

If use single tongue mortise, the triangular arrow of the square axis shall be opposite to the one on the bottom plate when adjusting the square axis

Front Panel

Adjust the left side handle to find the reversing screw

Rotate 180 °

Adjust the right side handle to find the reversing screw

Back panel

6、Installation Notes

①	②	③	④
In order to ensure successful installation, do not exert excessive force when tightening the screws, which may cause damage to the lock	Select correct screw tool	Wearing eye protection devices when opening doors to avoid eye injury	In order to prevent unnecessary damage to the door, when opening the door, please make the opening from both sides, remember to penetrate the opening on one side

7、Installation steps

Ⅰ、Line drawing

1. draw a horizontal center line 1m from the ground on both sides of the door.
2. Fold the opening template in half, align the center line of the handle of the opening template with the horizontal line on the door, and draw the opening lines on the front and side of the door according to the requirements of the opening template.

Ⅱ、Opening

Open the panel and lock core mounting holes according to the requirements of the opening template.

Ⅲ、Install the lock

Install the lock mortise into the mortise hole in door frame, and secured to the door with two M5*20 screws.

Ⅳ、Front Panel Installation

1. Install the hollow stud and square shaft on the front panel .
2. Align the shaft on the front panel with the square shaft hole on the lock mortise.
3、 install the front panel horizontally to the outside of the door.

Ⅴ、Back Panel Installation

1. Align and insert the front and rear wiring.
2. Attach the back plate to the door, and lock the front and back panels with two panel screws, lock and fix.

Ⅵ、Battery and rear cover plate installation

Install the new battery into the battery box according to the positive and negative alignment, and install the rear cover plate into the rear panel after the power on is normal.

Ⅶ、Install the door gusset plate

1. Put the door close to the door frame, draw the position of the lock tongue on the door frame with a pencil, and then draw the opening shape of the door frame .
2. After opening the hole, put the Latch box and the door gusset plate into the hole as shown on the left, and fix the gusset plate with 2 M5*20 screws.
3. Closing the door, check whether the lock tongue can be fully extended.

Ⅷ、Installation and debugging

1. turn the handle, check the flexibility of the front and back handle.
2. Open the lock mechanical key hole cover, insert the mechanical key, twist the key in place clockwise, then push the handle to open the door, and check whether the key can open the door normally.
3. Test the door opening function after setting the door lock according to the door lock operation guide .

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III, Function and Operation

Initialization

Press and hold the setting key (rear panel key) for 5 seconds, then the voice will announce " Initialization is successful" .

Note: The initialization password is 123456, any fingerprint can open the door .

3.1 Language switch (initial state use)

555666888# Use Chinese

555666880# In English (multi-country version support)

555666881# Use Vietnamese (multi-country version support)

555666882# In Portuguese (multi-country version support)

555666883# Use Arabic (multi-country version support)

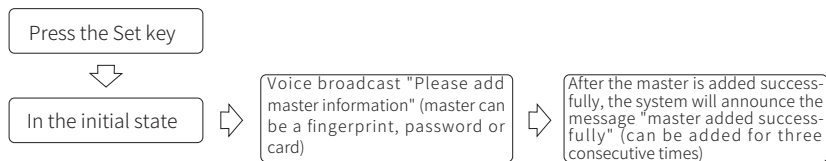555666884# Use Russian (multi-country version support)

555666885# Use Thai (multi-country version support)

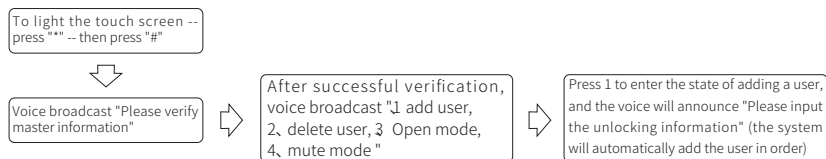555666886# In Spanish (multi-country version support)

555666887# Use Indonesian (multi-country version support)

555666889# Use Japanese (multi-country version support)

3.2 Add master information (up to three masters)

Press the Set key

⇩

| In the initial state | ⇨ | Voice broadcast "Please add master information" (master can be a fingerprint, password or card) | ⇨ | After the master is added successfully, the system will announce the message "master added successfully" (can be added for three consecutive times) |

3.3 Add the lock unlocking information

To light the touch screen -- press "*" -- then press "#"

⇩

| Voice broadcast "Please verify master information" | ⇨ | After successful verification, voice broadcast "1、add user, 2、delete user, 3、Open mode, 4、mute mode " | ⇨ | Press 1 to enter the state of adding a user, and the voice will announce "Please input the unlocking information" (the system will automatically add the user in order) |

Note: The first 3 unlocking information are master users, and the maximum number of unlocking information is 300.

3.4 Delete user information

To light the touch screen -- press "*" -- then press "#"

⇩

| Voice broadcast "Please verify master information" | ⇨ | After successful verification, voice broadcast "1、add user, 2、delete user, 3、Open mode, 4、mute mode " | ⇨ | Press 2 to enter the state of deleting the user, and the voice broadcast "Please enter the number of deleting" |

3.5 Open mode

To light the touch screen -- press "*" -- then press "#"

⬇

Voice broadcast "Please verify master information" ⇨ After successful verification, voice broadcast "1、add user, 2、delete user, 3、Open mode, 4、mute mode " ⇨ Press 3 to enter, and the voice will broadcast "Open mode open" or "Open mode closed"

3.6 Mute mode

To light the touch screen -- press "*" -- then press "#"

⬇

Voice broadcast "Please verify master information" ⇨ After successful verification, voice broadcast "1、add user, 2、delete user, 3、Open mode, 4、mute mode " ⇨ Press 4 to enter, and the voice will broadcast "mute mode on" or"mute mode off"

Note: After the mute mode is turned on, every time you open the lock, it will be silent.

3.7 Restore factory settings

3.6.1.Press and hold the reset and clear button on the 10s rear panel, the door lock will return to the factory default, and the voice and light will be restored successfully.

3.6.2.The factory default password is 123456, all fingerprint password card registration are cleared, and the operation record remains unchanged.

Reset button
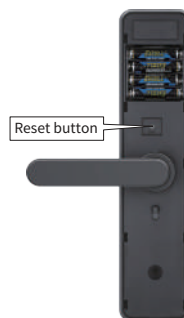
3.8 Low voltage alarm and battery replacement method

3.8.1 Battery Low voltage alarm

When the battery is low-voltage, when unlock by fingerprint / password / card, and the door lock voice prompts "the voltage is too low, please replace the battery".

3.8.2 Battery replacement method

Take out the old battery, put the new battery into the battery box according to the positive and negative pole alignment, and install the battery cover into the bacl panel after the power is normal.

4AAA alkaline batteries
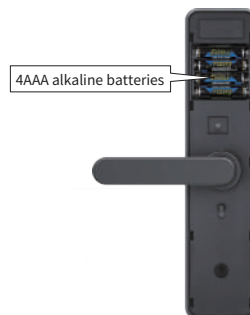
3.9 USB emergency power supply and mechanical key unlock

When the battery has no power, use 5V power bank +micro USB cable and connect the micro USB port of the external emergency power supply to unlock normally, or use the mechanical key to unlock.
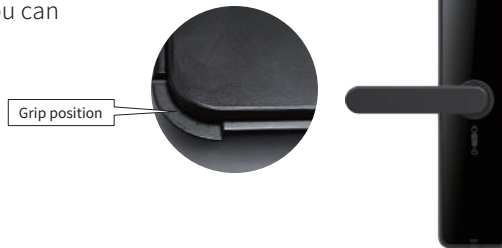
Mechanical key hole · USB Power Interface

3.10 Electronic anti lock function

When the electronic anti lock key is pushed upward, it is locked, and when it is pushed downward, it is unlocked.

Electronic anti lock key
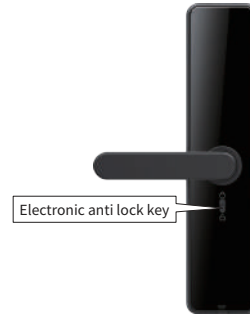
3.11 To open the battery cover

There is a small gap on the left bottom of the back cover, from where you can open the battery cover.

Grip position

3.12 Other instructions

◆Input errors for more than 5consecutive times, lock the keyboard for 2 minutes, and do not respond to any operation within 2 minutes。

◆Password snooping prevention function: enter the password in the following way when checking the door: XXX password XXX; You can add some irrelevant numbers before and after the password, and then press # to confirm. The password must be included in the entered content。

◆If there is no operation for more than 12 seconds each time, the system will exit automatically。

◆After the voltage is lower than 4.8V, each unlocking will automatically alarm. The alarm rear door lock can be unlocked 200 times. After the number of times is exceeded, each unlocking will be handled as delayed unlocking. Be sure to replace the new battery before the number of times of unlocking。

IV、 Work with TUYA APP

4.1 APP Configuration (Tuya Smart)

1) Search "Tuya Smart" in APP Store or APP market, download and install it.
2) Register with your cellphone number and log in.
3) Click "Security & Sensor", find "Lock (Wi-Fi), click and add a device following instructions before use.
4) Remote unlocking: wake up the screen and press "9#", APP will show "Click open remotely", click "confirm" to remote opening the lock.

4.2 Smart lock manual

4.2.1 APP registration and login

* APP registration: if you do not have an APP account, you can choose to register or log in by SMS verification code.
* Click "create a new account" to enter the account registration page. According to the prompt to obtain SMS verification code, settle password.
* If you have an existing account, click "login with an existing account" to log in to the APP. Password, verification code, and social account login are supported.
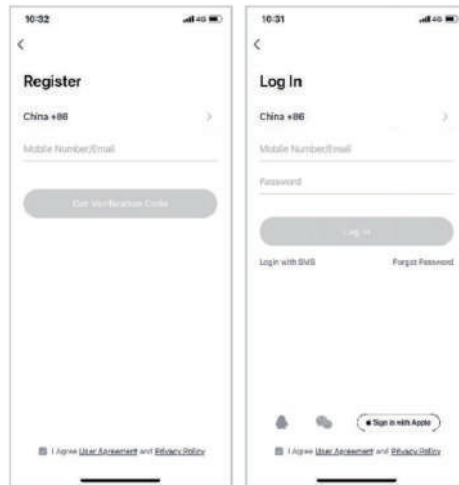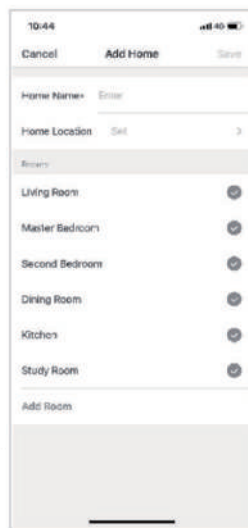

4.2.2 Create Homes

Creat your home after registering and logging in successfully.
* Each account can create and add multiple homes, and devices can be grouped by room in the home.
* Weather and other functions depend on the geographical location of the family, which is recommended to set in advance.
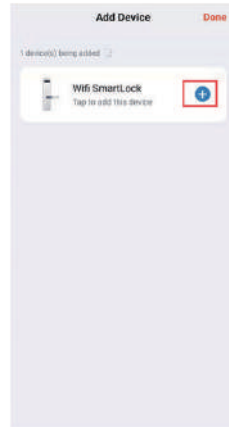
4.2.3 Add Wifi lock

Press *# admin code #1 to enter add user setting, then open Tuya APP, click "Add Device" to add lock in APP.

(Figure 1)

(Figure 2)

4.2.4 Home page

* Home page includes remote unlock, alarm message, users message, record and temporaty password and other functions.

* **Remote unlock: initiate a request from the door lock by press "9#"** , the APP can respond to allow / refuse door opening.

4.2.5 Dynamic password

Click to get the dynamic password meanwhile copy the password and text to other user.
Remark: Press 9# + dynamic password to open the lock