BL100 Installation Guide

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I. Reference Tools for Installing the Door Lock

1. Hammer
2. Screwdriver
3. Chisel for wood working
4. Angle square
5. Percussion drill
6. Hole saw
7. Polisher
8. Rivet gun
9. Carpenter's pencil
10. Pliers

II. Quick Reference

A. Quick reference for Installation Guide
   ➢ Confirm the door information before installation, please see III. Confirm the door information before installation;
   ➢ Install Lock Body, please see IV. Install Lock Body;
   ➢ Confirm the length of Locking Bar, please see V. Confirm the length of Locking Bar;
   ➢ Install the Front panel Assembly, please see VI. Install the Front panel Assembly;
   ➢ Install Batteries, please see VII. Install the Batteries;
   ➢ Install the Rear panel Assembly, please see VIII. Install the Rear panel Assembly;
   ➢ Use Instruction, please see IX. Use Instructions;
   ➢ The Basic Operation, please see X. The Basic Operation;
   ➢ Routine Maintenance, please see XI. Routine Maintenance.

B. List of Lock Accessories

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III. Confirm the door information before installation

1. Installation Requirements

This fingerprint lock is not configured with a handle, and the user can install it on the door as desired. The fingerprint lock is applicable to doors of 35-50 mm in thickness.

2. Make sure of the door opening directions and lock body directions

(1). Make sure of the door opening directions. The lock body's outside and inside can't be set contrary. Assume you are standing outside and facing a door and then there are four door opening directions: Left inward, left outward, right inward and right outward. Left inward/outward means the door swings inward/outward with hinges on the left; right inward/outward means the door swings inward/outward with hinges on the right, as shown in the following Figure 1:

(2). Make sure of the lock body directions. According to the door opening directions to make sure of the lock body directions, shown as the following Figure 2:
IV. Install Lock Body

1. Determine the installation height and installation location; stick the hole-drilling template to an appropriate location according to the door-opening mode, as shown in Figure 4-1.
2. Insert the Lock Body into the matching Hole Slot, as shown in Figure 5:

Note: There has a "↑UP" flag on the Lock Body. Before installing the Lock Body, confirm how to install it based on the tip flag.

Set the length of the Lock Body based on the distance from the Door Edge to the center of the circle (that is, the opening hole distance is about 60 mm or 70 mm, as shown in Figure 4-1).

The opening distance matching the default length of the lock body is 60 mm. If the distance of 70 mm is required, reset the length of the lock body in the following steps:

1. Hold the part ① of the Lock Body, rotate the part ② by 45°, and pull back part ②. As shown in Figure 4-2.
2. Rotate part ② by 45° in the other direction to make the card pillar of the Lock Body to be embedded into the matching card hole of 70 mm. That is, set the length of the Lock Body to 70 mm.

Note: When you shorten the length of the Lock Body, perform the following steps:

1. Hold the part ①, rotate the part ② by 45°, and push part ② ahead. (2). Rotate part ② by 45° in the other direction to make the card pillar of the Lock Body to be embedded into the matching card hole of 60 mm.

(3). To set the lock as "Left Open" or "Right Open" on the Rear panel Assembly, shown as Figure 3:

As shown in Figure 3, there has a "Left Open/Right Open" set Switch on the Rear panel Assembly of the fingerprint lock. The user can turn the switch to the left side (L), namely set the door's opening directions as "Left Open"; if turn the switch to the right side (R), then set the door's opening directions as "Right Open".

Note: ① Before install the fingerprint lock, you must make sure of the door's opening direction as Left Open or Right Open at first; ② According to the door's opening direction, switch the "Left/Right Open" set switch to the corresponding position (Left Open, then switch to the left side; Right Open, then switch to the right side); ③ According to the door's opening direction to drill a hole and trough in the door, and then install the Lock Body.
Ⅵ. Install the Front panel Assembly

1. Install a Silica gel backing plate on the Front panel Assembly (moisture proof / waterproof). As shown in Figure 12.

2. Stretch the Spring Bolt back to the Lock Body and pull the Connecting Wire out of the hole at the bottom of the Lock Body.

3. Install the Front panel Assembly into the matching Hole Slot on the door. (There are three holes on the Lock Body, as shown in the preceding figure. The cylinder on the fore plate composition must be pulled out from the cross-shaped hole of the Lock Body and the Locking Bar must be vertical to the ground.), as shown in Figure 13.

4. Install the Back Lining Plate to the mapping Hole Slot. Pull the Connecting Wire out of the Oval-shaped Hole of the Back Lining Plate (As shown in Figure 14) and fix the Back Lining Plate and Front panel Assembly using a screwdriver, as shown in Figure 15.

V. Confirm the length of Locking Bar

1. Install the Front panel Assembly of the lock onto the door (Please see VI. Install the Front panel Assembly). As shown in Figure 9.

2. Check whether the Locking Bar is too long. If yes, take the Front panel Assembly off and cut away the excess part of the Locking Bar (see Method for Cutting Locking Bar). As shown in Figure 10.

Method for cutting Locking Bar: Suppose that the part of the Locking Bar that stretches out of the Hole Slot on the door is CD, as shown in Figure 11. Cut away the Locking Bar from A to ensure that the Locking Bar does not stretch out of the Hole Slot.

3. After the procedure is completed, fix the Lock Body using a screwdriver, as shown in Figure 6. Insert the screwdriver into the cross-shaped hole of the Lock Body. When you rotate the cylinder clockwise, it springs out automatically, as shown in Figure 7. When you rotate the cylinder counterclockwise, it springs back automatically, as shown in Figure 8.
Ⅶ. Install the Batteries
1. Prepare four AA batteries. You are advised to use new batteries with the same brand.
2. Put batteries into the Rear panel Assembly properly. As shown in Figure 16-1 and 16-2:

![Figure 16-1](image1)

![Figure 16-2](image2)

Ⅷ. Install the Rear panel Assembly
1. Pull the Connecting Wire into the Wire Hole of the Rear panel Assembly. As shown in Figure 17:

![Figure 17](image3)

2. Tuck up the Connecting Wire for further Rear panel Assembly installation. As shown in Figure 18.

![Figure 18](image4)

Ⅸ. Use Instructions
1. Panel Description

① Fingerprint Collector
② Start key/LED Status indicator
③ Number keys
④ Key Hole
⑤ Emergency Power Interface
⑥ Screw Hole
⑦ Lock Button

3. Cover the Silica gel Backing Plate onto the Rear panel Assembly, turn the Lock Button to make the Hole Slot vertical to the ground, and insert Locking Bar into the Hole Slot, as shown in Figure 19. In this case, when you turn the Lock Button, the bolt can spring out or back automatically.

![Figure 19](image5)

4. Push the Rear panel Assembly ahead to ensure that it can cover the whole Back Lining Plate. Install screws and fix them using a screwdriver. As shown in Figure 20.

![Figure 20](image6)
2. Precautions
(1). After the fingerprint lock is installed, the lock is in the test state, and therefore any fingerprints and passwords can open the lock. You must modify the Master Pass Code (MPC). The lock can be used normally only after the User ID of an administrator is entered. If the MPC is not modified, the other functions of the system except for the initialization system are not available in the management mode. If no administrator is registered, ordinary users cannot also be registered.

Note: The method and step of change Master Pass Code, Enroll Administrator and Enroll Ordinary user, please see BL100 Fingerprint Lock User Manual.
(2). Do not remove batteries when matching, enrolling or deleting fingerprints because the sudden power-down may result in data loss of fingerprint locks. Prior to removing batteries, make sure the fingerprint lock is not in working state.
(3). It is recommended to replace the fingerprint lock batteries at least once every six months to avoid damaging the circuit due to the battery leakage. Do not use batteries with poor quality.

3. LED Backlight Indicators
The LED Backlight Indicators content three colors: Red, Green and Blue.

- The general rule:
  Successful = 1 Long Beep / LED Flashes Green.
  Failed = 2 Short Beeps / LED Flashes Red.

- Verify State: Green LED flash by second.
- Management Mode: Blue LED flash by second

4. Unlock with an Emergency Mechanical Key
You can open the door using an emergency mechanical key in case the electronic component does not operate.
① Use your fingernails or a hard chip to take down the lock cover.
② Insert the emergency key into the keyhole and rotate 90º to unlock.

5. Battery Low Voltage Protection
When the battery is low, there are alarm signals to warn users to change the battery as follows:
(1). When the battery voltage is lower than 4.8V, the buzzer will make short sharp sounds for five times when starting the machine. Users can unlock it normally but fail to enter the administrative mode.
(2). When the battery voltage is lower than 4.5V, the buzzer will make short sharp sounds for five times, and then the machine will be switched off automatically.

Note: When the low-voltage alarm occurs, please change the battery in time to avoid the impact on the work of the fingerprint lock. Avoid losing data caused by instable power supply (It is suggested to change the battery immediately when the battery voltage is lower than 4.8V).

X. The Basic Operation
1. Change Master Pass Code (MPC)
1. Press key to start lock, and then enter the Verify State. The LED flashes green light, and the Numpad area's blue light will be on.
2. Press and hold the key until you hear 1 long beep and the Green LED put out, and then the Keypad area Flashes Blue light. Press number key of the lock to input the default MPC "98989"", and then press key to enter the Management Mode. The green LED put out and the Keypad area continue flash blue light.
[64x88]key, can exit anytime.

1. If your input the wrong at th

2. Press 4 digits user password and press 5. 

3. Press "9" on the lock to enter the Enroll Administrator Mode.

4. Press and hold the 6 key to start the lock, and enter the Verify State.

5. Press finger in the scanner area properly, and repeat it for three times, until you hear one long beep and LED flashes Green.

Note: The administrator User's ID must between "995" and "999".

Note: 1-3 steps are same as above. Here is no longer to restatement.

Note: The ordinary users' ID must between "001" and "994".

Note: 1-3 steps are same as above. Here is no longer to restatement.

III. Enroll an Ordinary User

1. Press key to start the lock and enter the Verify State.

2. There are two methods to enter the Management Mode: ① Press and hold the 6 key until you hear 1 long beep, enter the 5 digits MPC, and then press 8 key to enter the Management Mode. ② Verify the registered administrator's password and fingerprint to enter the Management Mode.

3. Press "1" to enter the Enroll Ordinary User's Fingerprint Mode.

4. Input 3 digits User ID, then press 8 key to confirm.

5. Press finger in the scanner area properly, and repeat it for three times, until you hear one long beep and LED flashes Green, namely enrollment successful.

Note: The ordinary users' ID must between "001" and "994".

Note: The Fingerprint Verification is in active state.

1. Press 6 key to start the lock and enter the Verify State. The Fingerprint Collector is in active state.

2. Press finger in the fingerprint scanner area properly, until you hear one long beep, namely collect successful.

① If verify successful, the buzzer will give a long beep and unlock automatic, the green LED and the Fingerprint Collector will put out, the Green LED at 8 key will light for 3 seconds, at this moment you can press 8 key to lock.

② If successful, it will automatically exit the Enroll Administrator Mode. ③ Press and hold "0" key, can exit anytime. ④ If you want to enroll more administrator user, and then repeat the step 1-5.
Ⅰ. The Password Verification

1. Press $key$ to start the lock and enter the Verify State.
2. Press number key of lock to input the correct 4 digits password, and press $key$ to confirm.

(1) If the password is correct, then verify successful, the buzzer will give a long beep and unlock automatic, the green LED at Fingerprint Collector will put out, the Green LED at $key$ will light for 3s, at this moment you can press the $key$ to lock.

(2) If the password is wrong, then the verification failed. The buzzer will give two short beeps, the RED LED at $key$ will light for 3s, then the green LED will flash, the user can input password to verify again until verify successful.

😊 Note: After successful verification, the lock is in unlocking state. If you want to lock, press $key$ to start the lock, and then press this key again to lock and power off.

Ⅴ. Delete User

➢ Delete a user

1. Press $key$ to start the lock and enter the Verify State. See the methods on how to enter the management mode in the Enroll a Fingerprint Ordinary Users.
2. Press "3" on the lock to enter the Delete User Mode.
3. Press number key of the lock to input the User's ID which one you want to delete, and then press $key$ to confirm. Input the user ID again, and press $key$ to confirm, the buzzer will give a long beep, the $key$ lights green light, namely successful delete the user.
4. After deleting the user, you can restart the fingerprint lock and verify the deleted user's fingerprints or password again to check whether the user is deleted for sure.

_notice: The administrator can't delete itself and the last administrator.

➢ Delete All Ordinary Users

1. Press $key$ to start the lock and enter the Verify State. See the methods on how to enter the management mode in the Enroll a Fingerprint Ordinary Users.
2. Press "6" on the lock to enter the Delete All Ordinary User Mode.

3. Input "000" and press $key$ to confirm, then input "000" again and press $key$ to confirm. The buzzer will give a long beep, the $key$ flash green light, namely successful delete all users.

noticed: The operation can only delete ordinary users. If you want to delete administrator, you should do reset operation.

ⅩⅠ. Routine Maintenance

1. The lock surface is forbidden to contact corrosive substances. Otherwise, the protective layer of the lock surface may be damaged, and therefore the glossiness of the lock surface may be decreased. To keep the lock surface glossy, use the furniture polish wax to polish the lock surface regularly.
2. Use the cloth to clean dirt after the fingerprint collector is used for long time.
3. Change batteries in time when the alarm on the low power rings. You must replace the four old batteries with four new batteries of the same brand (the alkaline battery of 1.5 V) once.
4. Regularly check whether screws are loose.