

Preface

- Thank you for purchasing the Hongda Shepherd 210 Fingerprint Lock.
- Please read the instructions carefully for appropriate operation steps.
- Keep this manual as a future reference. (Do not discard)
- Manufacturer and seller will not be responsible for any damages caused by incorrect installation or mishandling of this product. Any such damages will void manufacturer's warranty.














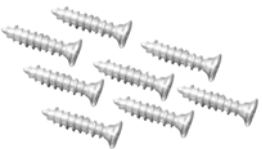
Please write down the serial number, which is located on the exterior package.

Serial Number: _____

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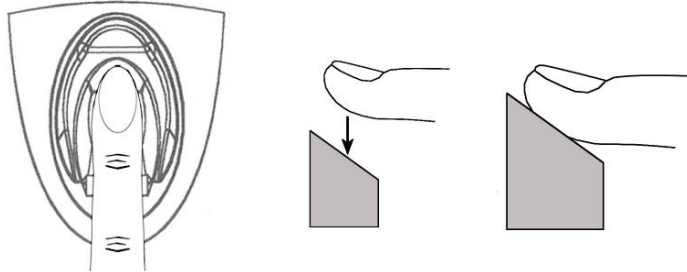
1. Parts Checklist

 <p>Inside Unit</p>	 <p>Outside Unit</p>	 <p>Metal Plate for Inside Unit</p>
 <p>Deadbolt</p>	 <p>Latch</p>	 <p>Spindle and Spring</p>
 <p>Deadbolt Strike Lining Box</p>	 <p>Latch Strike Lining Box</p>	 <p>Override Keys</p>
 <p>Deadbolt Strike Plate</p>	 <p>Latch Strike Plate</p>	 <p>Screws</p>
 <p>Rubber Seal</p>	 <p>Wood Screws</p>	

2. Preparation

2.1 Correct Finger Placement

Generally, the center of the vortex of the fingerprint pattern is the key data point. Your finger should be flat, motionless and held with firm pressure in the same way each time. Moist fingers give better images than dry ones.



2.2 Management Level and Authority

Grade/ Authority	ID Number	Enroll Users	Delete Users	Check the Current User ID Number	Unlock the Door	Delete All Users
Administrators	1-5	√	√	√	√	√
General Users	6-50			√	√	

2.3 Battery Installation/ Replacement



Turn the indoor knob to vertical position as shown

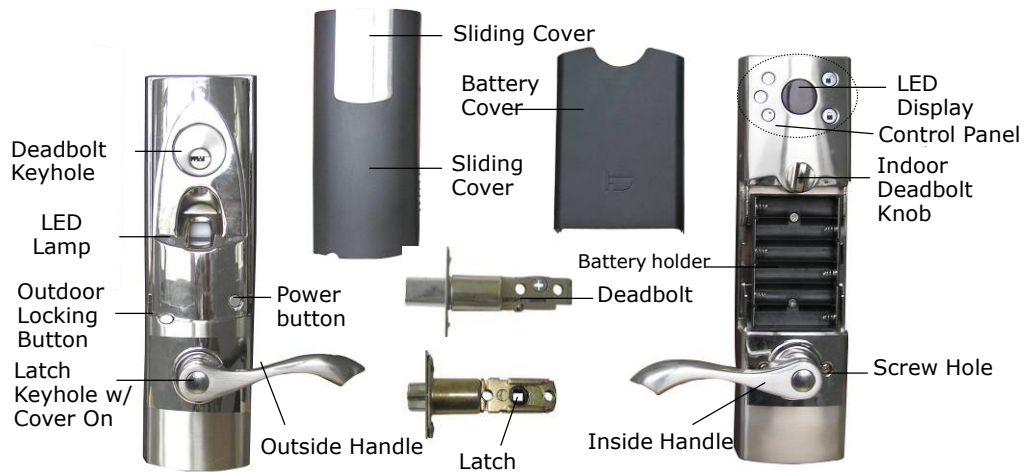
Remove 2 screws on the two sides of battery cover

Place 6 AA alkaline batteries

Replace the battery cover and tighten screws.

3. Operation

3.1 Parts Description



3.2 Enrolling Fingerprints

- **Factory setting**

There is no fingerprint in the initial status.



Slide the sliding cover up.



Press power button, deadbolt retracts without any users verification.

- **Enrolling Administrators**

See 2.1 on correct finger placement.



Press **POWER** button, deadbolt retracts



Press and hold the **STOR** button until "01" shows on LED display.



Press and hold the **STOR** button again, the scanner lights turns on. Place chosen finger on the scanner. This finger will be scanned twice. After the blue LED blinks twice, the first fingerprint is successfully enrolled.

Note: If you hear three beeps, which indicate that your fingerprint was not successfully enrolled. Please start the enrollment process from the beginning. The LED will show "02" after the first administrator fingerprint is enrolled. Before the unit powers off automatically, if you want to enroll the second administrator fingerprint, repeat the last step, and press the STOR button to start. After the second administrator fingerprint is enrolled, the LED will show "06" for general user. From now on, you can press ↻ button to select user ID number.

- The first two enrolled users, "01" and "02", will be programmed as ADMINISTRATORS automatically.
- Once the administrator fingerprint is enrolled, only the administrator can enroll or delete other user fingerprints.
- Users can only lock and unlock the door, and cannot program the unit.
- It is strongly recommended that using the index or middle finger when enroll fingerprint. The thumb is, by far, the worst digit to try enrolling.
- If you are having difficulty enrolling or verifying enrolled fingerprints, it is recommended to enroll the same fingerprint multiple times at slightly different angles.
- It is recommended to enroll two different fingers for each user, in case of the damage on the enrolled finger.

⚠Caution:

After registration, test to see that administrator can activate the lock before shutting the door. If there are three beeps, the fingerprint was rejected. This means the finger was positioned in a way that did not match the registration. If you have difficulty activating the lock and your rejection rate is more than half the time, delete the fingerprint you enrolled (Ref to 3.3) and consider putting some lotions on hands before enrollment. Dry and dirty hands affect the quality of the images.

- **Enrolling General Users**




Press **POWER** button, scanner window lights up



Administrator places finger on the scanner to unlock the door



Place and hold the **STOR** button for 3 seconds, ID number shows up, and then press  button to select a user ID



Press and hold the **STOR** button again, then place a finger on the scanner. After two blue flashes, release the **STOR** button.

 **Note:**

If 3 beeps sound, the registration was not successful. Please wait for it power off and repeat the steps. The Administrator should advise the new registrant on the proper method of placing the finger in the scanning window and the sequence of steps. The LED will show "FU" after it has all 50 users registered. Please keep tracking the User ID numbers for future deletion.

3.3 Deleting Fingerprints

● Deleting Individual Fingerprints



Press **POWER** button



Administrator places finger on the scanner to unlock the door



Press and hold the **DEL** button until number shows up, then press ↻ button to select a user ID number that you want to delete. Press the **DEL** button again after the user ID number was selected.

● Deleting All Fingerprints



Press **POWER** button



Administrator places finger on the scanner to unlock the door



Press and hold the **DEL** and **STOR** buttons for about 5 seconds, the LED will show "UU".

● Deleting Administrators Fingerprints

When ONLY one or two administrator fingerprint(s) are enrolled in the lock, you can delete the administrators by following the instructions below.

- Press and hold the **DEL** button first, then press the **POWER** button. The LED will show "UU". There is no fingerprint in the unit.

3.4 Setting Security Levels

Five triggering thresholds are available: S0 through S4. Lowest level is S0, with increasingly more stringent thresholds up to S4. For your convenience, the Security Level is set at **S0** for training mode.

Once you have registered the administrator and are familiar with the operation of the lock, you should delete all the fingerprints and **INCREASE THE SECURITY LEVEL** to the recommended level. Then register the administrators and general users again.

We recommend **S2** or **S3** for normal applications.

Then follow the instruction below.



If there is no fingerprint in the unit, press **POWER** button, the deadbolt retracts. Then press and hold the **STOP**, **DEL** and **↺** buttons simultaneously until the display shows SX (x=1,1,2,3 or 4)

The LED will show the current security level.

Press the **↺** button to select a recommended security level, then press **STOP** button to save this setting.

Note: Setup security levels before enrolling any fingerprint. Manufacturer and/or seller will not be responsible for any losses caused by the improper security level setting.

4. Unlocking the Door

Note: The cylindrical(latch) lock is automatically locked for people on the outside until it is unlocked by fingerprints. It is not locked for people on the inside.

- **Unlocking from Outside**



Press **POWER** button




Place an enrolled finger on the scanner window.



Turn the handle after blue flashes and two beeps

- **Unlocking from Inside**

Press  button from inside, deadbolt retracts, then turn handle to open the door.

- **Unlocking with Override Keys**



Remove the sliding cover and keyhole cover





Insert one of the four keys into top keyhole and turn to the right. Insert the same key into the bottom cylinder lock and turn to the right




Turn the handle to open the door

- **Temporary Unlock Mode**



After the lock is unlocked and while power is still on, press  button twice, then press  button once. The lock will remain unlocked.



Press indoor  button or **Outdoor Locking** button, to return to normal operation,

5. Locking the Door

From Outside



Press **Outside Locking** button to lock the deadbolt from outside.

From Inside



Turn the indoor deadbolt knob or press  button to lock the door.

6. Maintenance

- Keep debris and sharp object away from the fingerprint scanner.
- Keep the fingerprint scanner clean.
- When the low battery alert (6 beeps) occurs, please change the batteries immediately.
- The alkaline batteries are recommended.
- Since the keys can not be duplicated, please keep the keys in the safe place.

7. Troubleshooting

Problem 1: Indoor deadbolt knob cannot be turned.

Cause 1: The deadbolt is not in locked position when install.

Solution: Reinstall the lock, and make sure the deadbolt is in locked position.

Cause 2: Torque bar is not in vertical position.

Solution: Adjust the torque bar/tailpiece into vertical position.

Problem 2: Indoor deadbolt knob cannot turn freely.

Cause 1: Torque bar/tailpiece is too long.

Solution: Double check the door thickness, and cut the torque bar slightly less than door thickness.

Problem 3: The deadbolt does not work when you turn indoor deadbolt knob.

Cause 1: Torque bar does not go in the slot on inside unit.

Solution: Check to see if torque bar goes in the slot on inside unit.

Cause 2: Torque bar is too short.

Solution : Contact seller for a replacement part.

Problem 4: The deadbolt does not come out when press the button

Cause 1: Strike and lining box were not positioned properly.

Solution: Adjust the positions of strike and lining box.

Cause 2: The indoor deadbolt knob is not in vertical position when install.

Solution: Adjust the indoor deadbolt knob is in vertical position.

Cause 3: The deadbolt is not configured at either 2 1/8" or 2 1/4" position properly.

Solution: Adjust deadbolt again to ensure dead bolt fits into either 2 1/8" or 2 1/4" position.

Problem 5: The lock does not work when press power button.

Cause 1: Batteries are not installed properly.

Solution: Install batteries with right polarities.

Cause 2: Cable does not plug all the way in.

Solution: Re-connect the cable.

Cause 3: Cable is damaged.

Solution: Please contact seller for replacement

8. Specifications

Fingerprint Sensor	Optical CMOS sensor
Memory Capacity	50 fingerprint users, 2 templates per user
Identification Method	1:N
Scanning Time	≤1 second
Matching Time	≤0.2 second
FAR (False Acceptance Rate)	<0.0001%
FRR (False Rejection Rate)	<2%
Translation Tolerance	±0.1"
Rotation Tolerance	<±15°
Power Supply	6 AA alkaline batteries
Battery Life	Over 8000 operations.
Static Power Consumption	< 5μA
Dynamic Power Consumption	170mA
Dimensions (Inch)	Outside unit: 10 13/16"×3"×1 23/32"
	Inside unit: 10 13/16"×3"×1 7/16"
Weight	4.5 kg
Environment : Temperature	-20°C ~ +55°C
Humidity	0% ~ 99% (Relative humidity)
Door Thickness	35mm ~ 50mm