

## **PREFACE**

- **Thank you for purchasing the BioAxxis® BD-1 fingerprint deadbolt.**
- **Please read the documentation carefully before installation & use. The manual details all installation procedures and operation steps.**
- **Manufacturer and/or Distributors of the BioAxxis® BD1 will not be responsible for any damages caused by incorrect installation or mishandling of the lock. Any such damages will void manufacturer's warranty.**

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## 1. Parts

Please familiarize yourself with all the parts in the packaging box of the BioAxxis® BD1. If any part is missing or damaged, contact our service center or your local dealer.

|   |   |   |
|---|---|---|
|  <p>Outdoor Unit</p>                               |  <p>Indoor Unit</p>                                |  <p>Strike Lining Box</p> |
|  <p>Outdoor Rubber Gasket</p>                     |  <p>Strike Plate</p>                              |  <p>Keys</p>             |
|  <p>Deadbolt Latch<br/>2 3/4" backset (70mm)</p> |  <p>Deadbolt Latch<br/>2 3/8" backset (60mm)</p> |  <p>2" screws</p>       |

|   |  |  |
|---|--|--|
|  <p>1 3/16" screws</p> |  <p>Wooden &amp; Metal Screws</p> |  <p>Alkaline Batteries</p> |
|---|--|--|

## 2. Required Tools

|                                      |                                 |
|--------------------------------------|---------------------------------|
| ① Electric or battery operated Drill | ② One 3/8" Diameter Drill Bit   |
| ③ One 1" Diameter Drill bit          | ④ One 2 1/8" Diameter Drill Bit |
| ⑤ A Carpenter Chisel                 | ⑥ A Hammer                      |
| ⑦ A pair of scissors                 | ⑧ A pair of pliers              |
| ⑨ Philips & flat head screw drivers  |                                 |

### 3. Pre-installation

#### 3.1 Mark and bore holes on the door

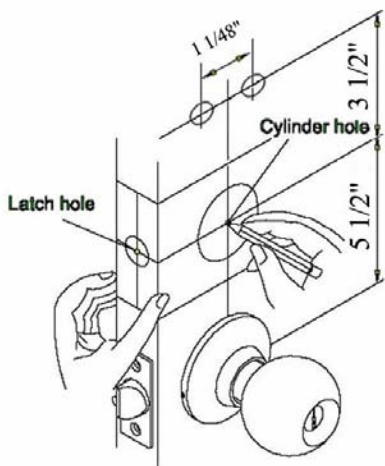
##### 3.11 Mark holes on door

*For doors with existing deadbolt lock:*

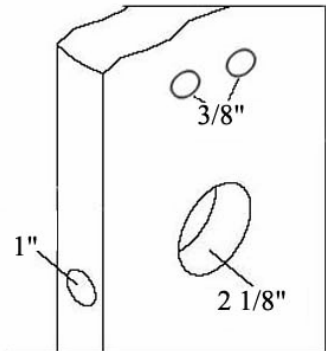
- 1) Remove existing cylindrical deadbolt
- 2) Please be sure to use the installation template when installing the BioAxxis® BD1 on a door with an existing deadbolt. Rest the installation template on the **SIDE OF THE DOOR** first, matching the deadbolt face plate cut out over the existing deadbolt plate and then lay the template onto the front (face) of the door. **Notice that you will need to shave down the 2 1/8" hole by approximately 1/4"**.

*For doors that do not have a cylindrical deadbolt lock or a hole for the cylindrical deadbolt lock:*

|  |  |
|--|--|
|  | <p>A. Start approximately 46" from floor. Select the appropriate installation template according to the length of the backset. Fold and apply the template to the edge of the door bevel. Mark the center point of the cylinder hole on the door face, and then mark the center point of the deadbolt hole on door edge,</p> |
|--|--|

|   |  |
|---|--|
|  | <p>as indicated on the template.</p> <p>B. For installation of combination set (door handle and deadbolt), it is recommended that the distance is 5 1/2" between the two center points.</p> <p>C. Mark the center points of the two small holes on the door face for the two upper fixing posts mounted on the top plate of the outdoor unit, as indicated on the installation template.</p> |
|---|--|

**3.12 Bore holes**

|  |  |
|--|--|
|  | <p>A. Bore a 2 1/8" diameter hole in the center of door face for chassis. (It is recommended to bore this hole from both sides of the door to avoid splintering.)</p> <p>B. Bore a 1" diameter hole in the center of door edge for deadbolt.</p> <p>C. Bore two separate 3/8" diameter holes for the upper fixing posts.</p> |
|--|--|

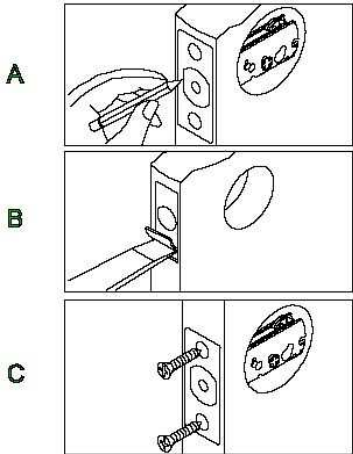
**3.2 Deadbolt Latch Selection**

There are two deadbolt latches in each box, one with a 2 3/8"

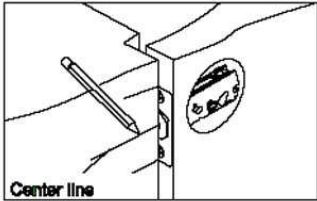
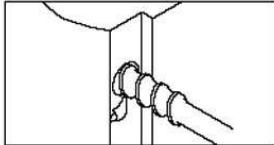
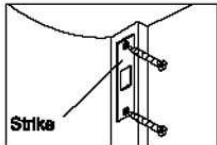
(60mm) backset and the other with a 2 3/4" (70mm) backset. Make sure which length you will need and select the right one before installation.

## 4. Installation

### 4.1 Installation of Deadbolt

|   |  |
|---|--|
|  <p>The diagram consists of three vertically stacked panels labeled A, B, and C. Panel A shows a hand inserting a deadbolt latch into a hole in the edge of a door. Panel B shows a chisel being used to create a rectangular groove in the door edge. Panel C shows the deadbolt inserted into the groove and secured with two screws.</p> | <ol style="list-style-type: none"> <li>A. Insert the deadbolt latch into the hole in the edge of the door (follow the UP sign), keeping it parallel to the face of the door. Mark the outline of the face plate and remove the deadbolt.</li> <li>B. Then chisel 1/8" deep rectangular shape, per your marking (or until the faceplate is flush with the door edge).</li> <li>C. Insert the deadbolt latch; make sure the deadbolt UP sign is facing upwards. Then fasten the screws.</li> </ol> |
|---|--|

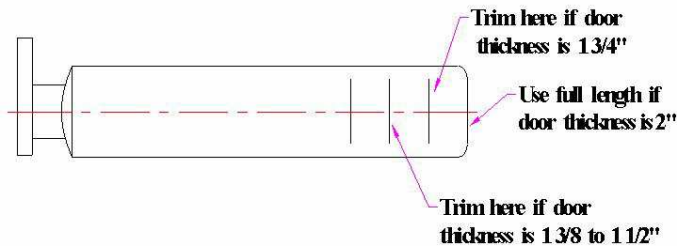
## 4.2 Installing Strike and Strike Lining Box (on the door jamb)

|  |  |
|--|--|
|  <p>A</p>  <p>B</p>  <p>C</p> | <p>A.</p> <ol style="list-style-type: none"> <li>(1) Close the door until the deadbolt touches the door jamb along the face plate to mark the horizontal center lines.</li> <li>(2) Measure one half of the door thickness from one side of the door jamb, and then mark the vertical center lines.</li> <li>(3) Extend the vertical center line and the horizontal line to mark the drill center point for the strike.</li> </ol> <p>B. Bore a 1" diameter and 1" deep hole in the door jamb at the center point for strike. To ensure the proper deadbolt function, this hole must be drilled at least 1" deep.</p> <p>C. Chisel the door jamb at 1/16" deep for the strike plate which must fit flush with the door jamb.</p> <p>D. Insert the strike lining box and then fasten screws to the plate.</p> |
|--|--|

### 4.3 Sizing Tail Piece (to the right length)

BioAxxis® BD1 is designed to fit door thickness of 1 3/8" to 2".

TRIM THE TAIL PIECE PER DOOR THICKNESS.



Trim the tail piece accordingly, with a pair of pliers, hacksaw or metal cutters.

**Notes:**

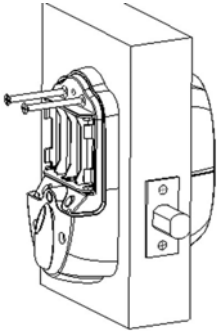
- 1) If the door thickness falls between two notches, then mark the appropriate spot on the tailpiece and cut the tailpiece to that length.
- 2) Please be sure to use the referenced diagram while cutting your tailpiece. The motor could be dislodged if the tailpiece is not cut properly and is too long, due to excessive pressure. **Warranty will be voided if this occurs.**

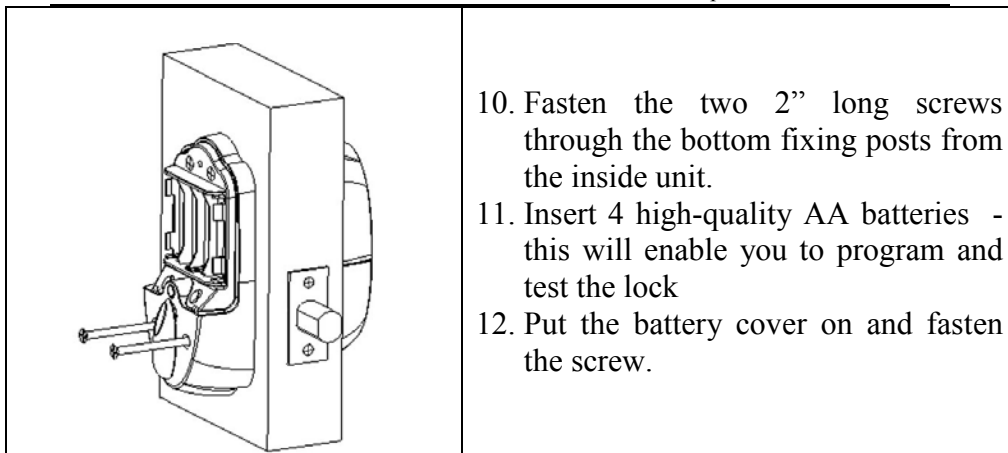
#### 4.4 Installation of the Outdoor Unit

|  |   |
|--|---|
|  | <ol style="list-style-type: none"> <li>1. Attach <b>the</b> rubber gasket to the back of the outdoor unit.</li> <li>2. Push the cylinder and fixing posts inside the door.</li> <li>3. Make sure the two slim fixing posts go through the latch holes.</li> <li>4. Make sure the tail piece is vertical.</li> <li>5. Make sure the deadbolt is engaged.</li> <li>6. Insert tail piece through the cross slot of the latch.</li> <li>7. Insert the connector and wires through the cylinder hole below the deadbolt latch.</li> <li>8. Insert the two upper fixing posts through the small upper holes on the door (the newly drilled holes).</li> </ol> |
|--|---|

#### 4.5 Installation of the Indoor Unit

|  |   |
|--|---|
|  | <ol style="list-style-type: none"> <li>1. Select the proper door opening orientation on the bottom plate of the Indoor Unit. If the door is left handed, please push the orientation selector switch to “L” position; if it’s right handed, switch the selector to “R” position.</li> <li>2. Left handed doors are defined as hinge on the left when you are entering the home from outside. The opposite is true for right handed</li> </ol> |
|--|---|

|  |   |
|--|---|
|  | <p>doors.</p> <ol style="list-style-type: none"> <li>3. Connect the 3 sets of wires. It should end up as shown in the diagram to the left.<br/><b>NOTE:</b> be sure to connect the wires below the latch.</li> <li>4. Turn the manual turn knob to the vertical position, facing downward.</li> <li>5. Insert the tail piece into the vertical retaining slot of the indoor unit.</li> <li>6. Gently finish joining the outdoor and indoor units together, ensuring all fixing posts are aligned properly. Make sure the cables are not jammed by the latch.</li> <li>7. Turn the turn knob to test the operation of the deadbolt.</li> </ol> |
|  | <ol style="list-style-type: none"> <li>8. Fasten the two 1 3/16" long screws through the upper fixing post holes on the upper section of the inside unit.</li> <li>9. Continuously check the operation of the knob.</li> </ol>  |



#### 4.6 Final inspection/adjustment prior to enrollment

**Note: After installation and prior to using the unit, make sure you read and follow the steps below:**

- ① Insert 4 new high-quality AA batteries in the battery housing.
- ② Turn the inside knob to the horizontal position; next turn it to the vertical position (locked position). It should turn freely. If and when the inside and outside locks are attached securely and the inside knob doesn't turn freely, see the trouble shooting table below for possible solution. If the knob turns freely, continue with the next step.
- ③ Make sure you selected the appropriate door opening orientation – Left or Right handed.
- ④ Try to lock and unlock from outside by moving the sliding cover. When the sliding cover is fully lifted, the deadbolt should be disengaged; when the sliding cover is slightly lifted and immediately shut it down, the deadbolt should be engaged.
- ⑤ Try to lock and unlock from inside by pressing the Open/Close button to ensure it works well.

## **5. Trouble Shooting**

| PROBLEMS   | POSSIBLE REASONS  | SOLUTIONS  |
|--|---|--|
| Indoor turn knob does not turn or turns very sluggishly & hard to turn | <ol style="list-style-type: none"> <li>1. Incorrect installation</li> <br/> <li>2. Tail piece not trimmed properly;</li> </ol>  | <ol style="list-style-type: none"> <li>1. Make sure the tail piece was inserted vertically through the cross slot of the deadbolt and slot of the indoor unit while the turn knob was vertical.</li> <br/> <li>2. Measure the door thickness and trim the tail piece per section 4.3 of the installation manual</li> </ol>   |
| Indoor turn knob turns but nothing happens.                            | <ol style="list-style-type: none"> <li>1. The tail piece did not go through the cross slot of the deadbolt;</li> <br/> <li>2. Tail piece was trimmed too short and does not penetrate the slot of the indoor unit;</li> </ol> | <ol style="list-style-type: none"> <li>1. Remove and reinstall the outdoor unit. Then insert the tail piece through the cross slot of the deadbolt and slot of the indoor unit while the turn knob is in vertical position.</li> <br/> <li>2. Contact the BioAxxis® BD1 dealer that you purchased to lock from OR Contact us at: <a href="mailto:info@bioaxxis.com">info@bioaxxis.com</a></li> </ol> |

|  |   |   |
|--|---|---|
| <p>When the sliding cover is fully lifted to power on without any fingerprint enrolled inside, the deadbolt does not disengage or four alert beeps are heard.</p>        | <ol style="list-style-type: none"> <li>1. Right &amp; left hand door configurations is set incorrectly;</li> <li>2. The tail piece was not set properly</li> </ol>                              | <ol style="list-style-type: none"> <li>1. Correctly configure the unit for left or right hand door swing per section 4.5.</li> <li>2. Uninstall the outdoor unit and keep the UP sign side of the tail piece up and insert the tail vertically through the cross slot of the deadbolt while the turn knob is in vertical position.</li> </ol> |
| <p>When the sliding cover is slightly lifted and immediately put down to engage the deadbolt, but the deadbolt does not fully engage, or four alert beeps are heard.</p> | <ol style="list-style-type: none"> <li>1. Improper positioning of the strike and strike lining box. It may be deflecting the deadbolt.</li> <li>2. Incorrect length of the deadbolt.</li> </ol> | <ol style="list-style-type: none"> <li>1. Check the position of the strike and the strike lining box.</li> <li>2. Measure the door thickness and choose the deadbolt with right length.</li> </ol>  |
| <p>When the sliding cover is lifted up during daily use, nothing happens (fingerprint scanner does not blink)</p>  | <ol style="list-style-type: none"> <li>1. Batteries not inserted correctly;</li> <li>2. Outdoor &amp; Indoor unit wires not connected properly</li> </ol>                                       | <ol style="list-style-type: none"> <li>1. Remove &amp; reinsert the batteries following “+” and “—“ signs in the battery house;</li> <li>2. Check the connections and make sure both the wires are coupled properly.</li> </ol>   |

|  |                    |                             |
|--|--------------------|-----------------------------|
| <p>When the sliding cover is up (whenever the door is locked or unlocked), the scanner blinks three times and six beeps are heard.</p> | <p>Low Voltage</p> | <p>Change the batteries</p> |
|--|--------------------|-----------------------------|

## Operation Manual

### Operation Manual Helpful Hints

(Please read before attempting to program the BioAxxis® BD1):

Please be sure to physically leave your door open until you have successfully enrolled the first user (ADMINISTRATOR) into the BioAxxis® BD1 and have successfully verified the new user's fingerprint to unlock the door.

**With no fingerprints enrolled in the BioAxxis® BD1, the deadbolt will engage/disengage when the sliding cover is fully opened and immediately closed.**

### Definitions of Indication Beeps:

**Single, Short Beep** – Indicates that **any** operations sequence has begun **OR** that the door has been successfully locked or unlocked **OR** that the sliding cover has been left open for more than ten seconds.

**Single, Long Beep** – Indicates that programming operation was successful

**Short, Double Beep** – Indicates that individual fingerprint user deletion sequence has begun.

**Long Double Beep** – Indicates that Delete All programming was successful

**Four Beeps** – Indicates unsuccessful enrollment/unsuccessful verification attempt **OR** BioAxxis® BD1 was improperly installed (see Installation Guide).

**Six, Short Beeps** – Low battery alert, change batteries

**Common definitions of terms used when using the BioAxxis® BD1:**

***Fingerprint Enrollment:***

Process of adding fingerprints to the BioAxxis® BD1.

***Enrolled Fingerprints:***

Fingerprints that have been successfully added into the BioAxxis® BD1.

***Verifying Fingerprints:***

Process of authentication by scanning enrolled fingerprints to:

- A) Unlock the door
- B) Authenticate Administrators enrolled fingerprints to program the BioAxxis® BD1.

***Before enrolling and verifying fingerprints, make sure to read the following helpful hints for Fingerprint Enrollment and Verification:***

Generally, the center of the vortex (swirl) of the fingerprint pattern is the key data point; **ideally, it is placed in the center of the small glass window in a consistent way. Your finger should be flat, motionless and held with light pressure in the same way each time. See the picture below for some guiding drawings.**

Light pressure when placing the finger on the scanner gives the best image, but the finger must not move during scanning.

Moist fingers give better images than dry ones. If on cold, dry days you have difficulty, for example, try moistening your finger with your breath or a little lotion.

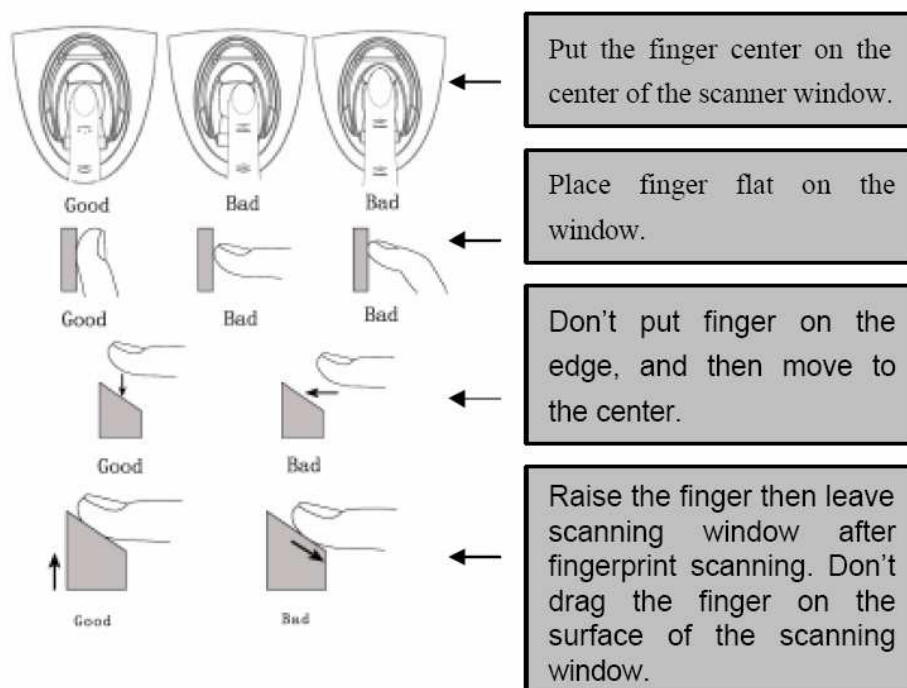
Very dry, dirty or scarred fingers are obviously not recommended, since they will obscure the fingerprint.

**The pointer finger is, by far, the best fingerprint to enroll. The thumb is the second best digit.**

If the pointer finger is difficult to enroll or verify, try **enrolling the same NON ADMIN fingerprint 2 or 3** times at slightly different angles. *EX: Enroll same pointer finger as users 3, 4 and 5.*

Always wait until the fingerprint scanner **turns on** to place your finger on the scanning window. This is true for both fingerprint enrollment AND verification.

When trying to enroll or verify fingerprints in direct sunlight, be sure to shade the sensor with your shadow, so sunlight will not reflect off of the mirror in the sensor.



### **Important Programming Notes:**

When **Adding** or **Deleting** Fingerprints, the closed sliding cover must be fully lifted within 8 seconds **after** pressing the **ADD** or **DEL** button, or the BD1 will power off. If this occurs, simply ***close the sliding cover***, press the **ADD** or **DEL** button again and fully lift the sliding cover immediately to restart the programming sequence.

The first two fingerprint users enrolled will automatically be programmed as **ADMINISTRATORS** (Users 1 and 2). **ADMINISTRATORS** can apply all programming functions as well as verify their fingerprints to unlock the door.

The 3rd thru 30th fingerprint users enrolled (Users 3 thru 30) are automatically programmed at the **USER** level. **USER** level

fingerprints can only be used to unlock the door, not to program the lock.

### **Section I - Enrolling Administrators (First 2 Fingerprint Users):**

Sliding cover must be closed before any programming sequence can begin.

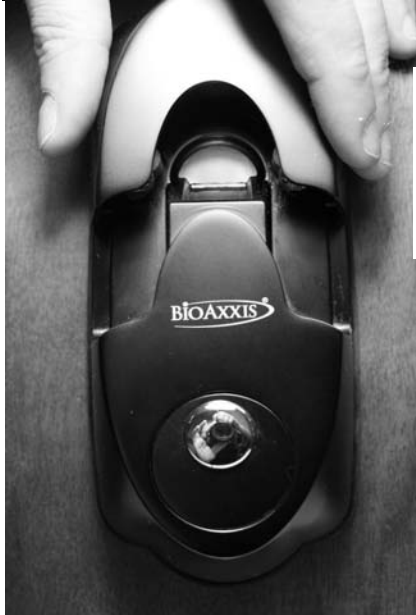
As noted in the Helpful Hints section, the first two users that enroll their fingerprints into the BioAxxis® BD1 will automatically be programmed as **ADMINISTRATORS** (Users 1 and 2).

ADMINISTRATORS can apply all programming functions as well as verify their fingerprints to unlock the door.

#### **Please use the following steps to enroll the first fingerprint user (ADMINISTRATOR1/USER 1):**



- Remove the battery cover from the indoor unit
- Press the “**ADD**” button located on the indoor unit
- Single beep will be heard



- Fully open the sliding cover located on the outdoor unit immediately



- A single short beep will be heard and the fingerprint sensor will power on
- After the fingerprint sensor powers on , rest your pointer finger on the sensor window during the first of three scans
- Keep your pointer finger on the scanning window thru all three scans.
- After the scanning is completed you will hear one of the following:

- **Single, long beep** indicating that the operation was successful

**OR**

- **Four beeps** indicating that your fingerprint was not successfully enrolled. If you hear four beeps, please start the enrollment process over from the beginning

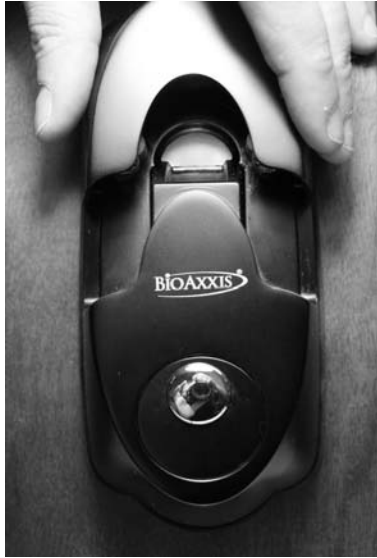


- Close the sliding cover

**Please use the following steps to enroll the second fingerprint user (ADMINISTRATOR2 /USER 2):**



- Remove the battery cover from the indoor unit
- Press the “ADD” button located on the indoor unit
- Single beep will be heard



- Fully open the sliding cover located on the outdoor unit immediately



- A single short beep will be heard and the fingerprint sensor will power on
- After the fingerprint sensor powers on, rest the **FIRST ENROLLED ADMINISTRATOR'S** finger on the sensor window to verify that they are an Administrator
- When the first Administrator's fingerprint is successfully **verified**, the sensor will briefly turn off (for less than one second)
- **Immediately** remove the ADMINISTRATOR'S finger

**BioAxxis® BD1**

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- A single short beep will be heard and the fingerprint sensor will power on
- Rest the new **2<sup>nd</sup> ADMINISTRATOR'S** pointer finger on the sensor window during the first of three scans
- Keep your pointer finger on the scanning window thru all three scans
- After the scanning is completed you will hear one of the following:
  - **Single, long beep** indicating that the operation was successful
  - OR**
  - **Four beeps** indicating that your fingerprint was not successfully enrolled. If you hear four beeps, please start the enrollment process over from the beginning
- Close the sliding cover

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**Section II - Enrolling Fingerprint Users 3 thru 30:**

Sliding cover must be closed before any programming sequence can begin.

As noted in the Helpful Hints section, the third thru thirtieth fingerprint users enrolled (Users 3 thru 30) are automatically programmed at the **USER** level. USER level fingerprints can only be used to unlock the door, not to program the lock.

**Please use the following steps to enroll additional fingerprint users (Users 3 thru 30):**



- Remove the battery cover from the indoor unit
- Press the “**ADD**” button located on the indoor unit
- Single beep will be heard



- Fully open the sliding cover located on the outdoor unit immediately



- A single short beep will be heard and the fingerprint sensor will power on
  - A single short beep will be heard and the fingerprint sensor will power on
  - Rest the new **user's** pointer finger on the sensor window during the first of three scans
  - Keep your pointer finger on the scanning window thru all three scans.
  - After the scanning is completed you will hear one of the following:
    - **Single, long beep** indicating that the operation was successful
- OR**
- **Four beeps** indicating that your fingerprint was not successfully enrolled. If you hear four beeps, please start the enrollment process over from the beginning

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- Close the sliding cover
- Repeat steps from the beginning of Section II to enroll additional fingerprint users.

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### Section III – Deleting Individual Fingerprint Users:

Sliding cover must be closed before any programming sequence can begin.

The Individual Fingerprint User Deletion programming function deletes fingerprint users from the most recent fingerprint user enrolled to the earliest fingerprint user enrolled.

**Please use the following steps to delete individual fingerprint users:**



- With the battery cover removed, press the “DEL” button located on the indoor unit
- Short, Double Beep will be heard



- Fully open the sliding cover located on the outdoor unit immediately



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- A single short beep will be heard and the fingerprint sensor will power on
- **Rest an Administrator's fingerprint** on the scanning window
- When the Administrator's fingerprint is successfully **verified**, a single, long beep will be heard indicating that the most recently enrolled fingerprint user has been deleted
  - If you hear four beeps, this indicates that the verification of the Administrator's fingerprint was not successful. Begin again from the first step of Section III



- Close the sliding cover
- Repeat steps from the beginning of Section III to delete the **next** most recently enrolled fingerprint user.

#### **Section IV – Deleting ALL Fingerprint Users:**

Sliding cover must be closed before any programming sequence can begin.

Deleting ALL enrolled fingerprint users will reset the lock and all users (including Administrators fingerprints) will be deleted.

With no fingerprints enrolled in the BioAxxis® BD1, the deadbolt will engage/disengage when the sliding cover is fully opened and immediately closed.

**Please use the following steps to delete ALL fingerprint users:**



- With the battery cover removed, **press and hold** the “DEL” and “OPEN/CLOSE” buttons simultaneously
- While still pressing and holding the “DEL” and “OPEN/CLOSE” buttons, fully open the closed sliding cover located on the outdoor unit.



- A single, long beep will be heard and the fingerprint scanner will power on
- **Rest an Administrator's fingerprint** on the scanning window
- When the Administrator's fingerprint is successfully **verified**, two long beeps will be heard after approximately 15 seconds, indicating that ALL enrolled fingerprint users have been deleted
  - If you hear four beeps, this indicates that the verification of the Administrator's fingerprint was not successful. Begin again from the first step of Section IV



- Close the sliding cover

**Section V – Unlocking the BioAxxis® BD1 from outside:**

In case of emergency, override keys can be used to disengage the deadbolt.

**Please use the following steps to unlock the BioAxxis® BD1 from outside, with your enrolled fingerprint:**



- Fully lift the sliding cover located on the outdoor unit.



- A single short beep will be heard and the fingerprint sensor will power on
- After the fingerprint sensor powers on, rest any **enrolled** fingerprint on the sensor window to verify.

If fingerprint verification is successful, the deadbolt will disengage and a single, short beep will be heard; *If verification of enrolled fingerprint was not successful, then 4 short beeps will be heard. If this happens, the fingerprint scanner will still turn on two additional times enabling users to try more. If all the two additional verification attempts still fail, please start the unlocking process over again, from the beginning of this section.*



- Close the sliding cover

**Section VI – Locking the BioAxxis® BD1 from Outside:**

In case of emergency, override keys can be used to engage the deadbolt.

**Please use the following steps to lock the BioAxxis® BD1 from outside (when leaving):**



- Make sure your door is closed
- Open and immediately close the sliding cover
- Deadbolt will engage and a single, short beep will be heard

## Section VII – Locking and Unlocking the BioAxxis® BD1 from

### Inside:

In case of emergency, manual turn knob can be used to disengage the deadbolt.

### Please use the following steps to lock and unlock the BioAxxis® BD1 from inside:



- Press the "OPEN/CLOSE" button (located between the ADD and DEL buttons)
- Deadbolt will engage/disengage and single, short beep will be heard.

### Support:

Contact the BioAxxis® BD1 dealer that you purchased the lock from

**OR**

Contact us at: [info@bioaxxis.com](mailto:info@bioaxxis.com) for additional support



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