



## Table of Contents

1. Features and Technical Specifications:	1
2. Fingerprint Recognition Notes:	2
3. User Enrollment:	3
Enrolling Fingerprint & Password Users	3
Enrollment Options	3
Changing Master Code	4
Enroll Fingerprint Users at Random	4
Enroll Fingerprint User with User ID	5
Enroll Pass Code User	5
4. Lock Operation:	6
Unlocking Door with Fingerprint	6
Unlocking Door with a Pass Code	6
Locking/ Unlocking Door from the Inside	6
Locking Door from the Outside	6
5. Deleting Users:	7
Deleting Fingerprint Users with a User ID	7
Deleting ALL Fingerprint Users	7
Deleting Pass Code Users with User ID	7
Deleting ALL Pass Code Users	7
6. Frequently Asked Questions:	8
7. Troubleshooting the Lock:	9
8. Performing a Factory Default:	10
9. Accessing the Key Hole:	11
10. Technical Support:	11
11. Installation:	12
Preparing For Lock Installation	12
Adjusting the Tailpiece for Installation	13
Installing the BioBolt	14



## 1.1 Features

- › State of the art optical anamorphic scanner insures quick & reliable fingerprint authentication
- › Runs on any brand name 4 AA batteries.
- › Fits doors 1 3/8" - 2 1/2" thick
- › Add / delete individual users directly on the lock
- › Fingerprint, pin or key access methods
- › All weather - operating temp: -4 ° to 140 ° F
- › Sliding weather cover triggers sensor to power on automatically (pressing the “#” button will also activate the lock)
- › Fingerprints will not be lost if batteries fail
- › Audible rapid beep low battery warning

## 1.2 Technical Specifications

Item	Description
Sensor	Optical
Resolution	560DPI
Scanning time	< 1s
FRR(False Rejection Rate)	<0.01%
FAR(False Acceptance Rate)	<0.0001%
Battery	4 AA Alkaline battery
Working current	150-300mA
Standby current	30uA
Display	Blue LCD
Identification mode	Fingerprint, Pin, Key
Working temperature	-4 ° to 140 ° F
Working humidity	10% -97%



## 2.1 Fingerprint Recognition Notes



Proper fingerprint placement is important when using any biometric device. Please be sure to use the tips below when using your fingerprint to authenticate with the BioBolt.

### Tip 1: Choosing The “Best” Finger

Use either your Index, Middle or Ring finger, when enrolling and verifying your fingerprint. Avoid using the Thumb and Pinky finger, as it is typically difficult to align them properly and consistently.



### Tip 2: Locating The Fingerprint “Core”

The “core” of a fingerprint is defined as the point located within the inner most recurving ridge. It is extremely important that this area is identified, and placed on the fingerprint scanner during the enrollment and verification of your fingerprint.



Fingerprint Core

### Tip 3: Prepare The Finger For Enrollment

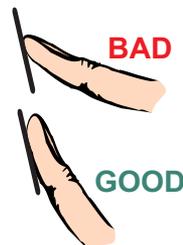
When enrolling and verifying with your fingerprint it is important that your finger be clean. It is also recommended that the finger be relatively undamaged and without scars.



**Hint:** Washing your hands with moisturizing soap and using hand lotion will also improve accuracy!

### Tip 4: Finger Placement

When placing your finger on the scanner, make sure that the location of the “core”, located in Tip 2, is making direct contact with the scanner. Apply medium pressure, or just enough to flatten the skin on your finger.





## 3.1 Enrolling Fingerprint & Password Users

---

### **When Entering Users into the Lock you have 3 Options:**

You can enroll fingerprints at random.

You can enroll as an ID# (+) fingerprint user.

You can assign users a pass code.

ALL pass codes MUST be 8 digits long!

## 3.2 Examples of Different Enrollment Options

---

### **Enroll at Random**

If you are using the lock on a home & the primary users will be your immediate family & you do not have any reason to think you will need to delete them from the lock in the future, we suggest you use this type of enrollment. You can store several scanned templates of several fingers. (ex. 3 scans of 2 fingers on each hand for each user)

### **ID# with Fingerprint User**

If you are using the lock on the door of a small business or at home and you need the ability to delete a user without deleting all users, this type of enrollment is best. You will assign a 3 digit ID# to each scanned template per user. For example, you have 2 temporary workers named Mary & Adam. You make Mary user 101 & scan her index finger. The lock will scan the fingerprint twice per template. If you want to enroll another finger for Mary you create another ID# like 102 for that new finger. You do the same procedure for Adam. You make him user 103. If you want to delete the user you simply delete the user ID# & the fingerprint associated with that ID# is deleted out of the system.

### **Pass Code Users (Not the Master Pass Code!)**

You can create a series of pass codes to gain entry. If a person has damaged fingerprints you can assign them a pass code. You can also set up pass codes for your shift managers. A common use is to create a pass code you can give out in case of emergencies. For example; you are out of town & need to let a neighbor into your house. You tell them the pass code. When you get home you simply delete that pass code.

**\*You can use any combination of all three enrollment options!**



**NOTE:** The scanner cover must be pulled up or the “#” button pressed to power on the lock before adding, deleting, or changing codes or fingerprint users.

The BioBolt® evo3 will automatically exit out of Programming Mode after 15 seconds. Please be sure to wait 15 seconds after enrolling, modifying or deleting a user before using the BioBolt evo3.

### 3.3 Changing Master Code

**PRESS:**

0 + \* + Default Master Code + New 8 Digit Master Code + Repeat New 8 Digit Master Code + #

**NOTE:** The default Master Code is: 11111111

NOTE: When successful the lock will make a solid single beep. If unsuccessful it makes 3 quick beeps.

**HINT:** When the Master Code has been changed, close the scanner, open it up & try the code to confirm your new code is working.

### 3.4 Enroll Fingerprint Users at Random (No User ID's)

**PRESS:**

1 + # + Master Code + #

NOTE: At this point the scanner will light up.

**FIRST SCAN:** Place the 1st finger on the scanner and remove when scanner light turns off.

**SECOND SCAN:** Replace the same finger when scanner lights up for the second time. You will hear a single beep if the enrollment is successful.

**REPEAT:** You can keep adding fingerprints one after another at this stage.

**HINT:** If a scan fails you will hear 3 beeps & the scanner goes off. Just repeat the steps above.



### 3.5 Enroll Fingerprint Users with User ID's

---

**PRESS:**

**1 + # + Master Code + 3 digit User ID + #**

NOTE: At this point the scanner will light up.

**FIRST SCAN:** Place the 1st finger on the scanner and remove when scanner light turns off.

**SECOND SCAN:** Replace the same finger when scanner lights up for the second time. You will hear a single beep if the enrollment is successful.

**REPEAT:** To add another finger for this user or any other users please repeat the process stated above. A fingerprint ID# can NOT be the same as a pass code ID#.

Example: Fingerprint User ID= #200 and Pass Code User ID= #300

### 3.6 Enroll Pass Code User

---

**PRESS:**

**1 + \* + Master Code + 3 Digit ID + New 8 Digit  
Pass Code + Repeat New 8 Digit Pass Code + #**

NOTE: A pass code ID# can NOT be the same as a fingerprint ID#.

**HINT:** When successful the lock will make a solid single beep. If unsuccessful it makes 3 quick beeps.

**HINT:** When the new pass code is enrolled, close the scanner, open it up & try the code to confirm your new code is working.



## 4.1 Unlocking Door with Fingerprint

---

To open with an enrolled fingerprint simply slide the cover up & place the finger gently on the scanner.

NOTE: You will hear a beep & a click sound. Your door is now open.

NOTE: If the cover is already up: simply hit the # button to activate the scanner.

## 4.2 Unlocking Door with a Pass Code

---

### **PRESS:**

#### **8 Digit Pass Code**

NOTE: Do not enter the 3 digit user ID

NOTE: You will hear a beep and the deadbolt will retract.

## 4.3 Locking/Unlocking Door from the Inside

---

**FIRST:** To open the lock from inside your home or business simply turn the knob or push the Lock/Unlock button (above knob), if locked.

## 4.4 Locking Door from the Outside

---

### **PRESS:**

\* (Only \* will Lock your Deadbolt from the outside, not a fingerprint)



## 5.1 Deleting a Fingerprint User with a User ID

---

**PRESS:**

**2 + # + Master Code + Users 3 Digit ID + Users  
3 Digit ID Again + #**

NOTE: When successful the lock will make a solid single beep. If unsuccessful it makes 3 quick beeps.

## 5.2 Deleting ALL Fingerprint Users

---

**HINT:** This procedure will delete all fingerprint users with user ID's and those without user ID's!

**PRESS:**

**3 + # + Master Code + #**

NOTE: When successful the lock will make a solid single beep. If unsuccessful it makes 3 quick beeps.

## 5.3 Deleting Pass Code Users with User ID's

---

**PRESS:**

**2 + \* + Master Code + Users 3 Digit ID + Users  
3 Digit ID Again + #**

NOTE: When successful the lock will make a solid single beep. If unsuccessful it makes 3 quick beeps.

## 5.4 Delete ALL Pass Code Users

---

**PRESS:**

**3 + \* + Master Code + #**

NOTE: When successful the lock will make a solid single beep. If unsuccessful it makes 3 quick beeps.



## 6.1 Frequently Asked Questions

---

### 1) Where does the key go?

You remove the decorative cover from the keyway using the black Magnetic Key Cover tool that came with the lock.

### 2) Can I get more keys made for my lock?

This lock comes with 4 KW1 keys. Normal hardware stores will be able to cut new keys if necessary.

### 3) How do I change the batteries?

On the back lock body (the side of the lock without the scanner) find the battery cover. Take the screw out & replace the batteries.

### 4) What kind of batteries should I use?

Any 4 AA batteries will work. We suggest for 1st time users get brand name new batteries like Energizer or Duracell.

### 5) How often should I change the batteries?

If in a conventional home setting you will be able to get several thousand uses out of a set of batteries. Though not required we do recommend you change batteries at the same time you change them in your smoke detectors or when you change your clocks. It's best to keep the batteries as fresh as possible.

### 6) If I take the batteries out, will I lose the information in the lock?

No! The BioBolt stores the information even with no batteries!

### 7) How do I know if the batteries are getting low?

When you slide the scanner cover up it will make a series of very quick beeps. That is the low power warning. It sounds much different than the chime you get normally.

### 8) Is there a way to purchase a BioBolt that has a scanner on both sides of the door?

No! This question is asked a lot by parents of special needs children who have special security requirements. There are legal limitations to selling anything that locks on both sides of a door.



## 7.1 Troubleshooting the BioBolt

### 1) Are you using the correct Master passcode?

Confirm you know the Master Passcode. Press the #1 button eight times. If that works its the current Master Passcode (See Page 4). If not you need to find the new master code or reset the lock.

### 2) Be Sure You Are Using Fresh Brand Name Batteries!!

The BioBolt® evo3's internal circuitry and scanner requires a good source of power which is provided by 4 AA batteries. It is advised that the batteries are replaced with fresh, name brand batteries anytime a decrease in lock performance is noticed, even if the low battery warning is not heard!

### 3) If the scanner is not reading certain fingerprints well:

- Try re-enrolling the user's fingerprint. Certain characteristics of a fingerprint may change over time requiring re-enrollment.

- Try a fingerprint from a non-dominant hand.

- When you are enrolling your fingerprint templates please remember to do the following:

- \* Make sure you are putting the "Core" of your fingerprint on the scanner. (Refer to page 2 for more information)

- \* When enrolling multiple templates, try to slightly change the way you rest your finger on the scanner with each scan. Imagine you have groceries in your hand and will be approaching the scanner with the other hand. This will help the scanner detect slight variations when you place your finger on the scanner.

- \* Simply **Place** your finger on the scanner, do not **Press Down** too hard! Pressing too strongly will cause the ridge patterns to flatten out, making it more difficult for the scanner to match the fingerprint!

- \* If it's cold outside, blow on your hands and rub them together or add lotion. This will warm up your fingers causing the ridge patterns of your fingerprints to stand out more.

### 4) If your BioBolt is working backwards, the lock may unlock when it should lock.

- \* Please check to see if your Bolt direction switch is in the proper position. See page 13 for directions.

- \* Check to see if the tail piece through the door is horizontal (sideways). The tail bolt should be Vertical (up and down).



**5) If you are hearing a Beep sound:**

1-Beep = Successful Action (scanned finger, entered code etc..)

3-Beeps = Unsuccessful Action

3-Sets of 2 Beeps = The User ID# is already in use

Rapid beeping sound when the cover is lifted = Low Battery Warning

Rapid beeping sound when enrolling a new user = Out of Memory

---

## 8.1 Performing a Factory Default

---

**FIRST:** Please remove the back lock body cover

NEXT: Disconnect the power cable from the battery pack.

NOTE: Before moving on, reconnect the power cable and test your lock. If the lock now works properly it had a slight connection issue. If this does not solve the problem with the lock, disconnect the power cable and move onto the next direction.

NEXT: Remove the front lock body off the door.

NEXT: Remove the back lock body off the door.

NOTE: It is recommended to use new AA batteries. If available, connect a 9VDC battery instead of the battery pack for added power during Reset.

NEXT: Reconnect the front & back lock bodies by reconnecting the power cable.

NEXT: Find the “Reset” button hole on the back of the front lock body.

NEXT: Press & hold down the small “Reset” button.

NEXT: While holding the “Reset” button down, use your other hand to slide the scanner cover up.

NOTE: After about 10-15 seconds you will hear a single beep indicating the lock has been reset.

HINT: To confirm, slide the cover up & enter the default Master Code 11111111. It will open the lock.

**For more troubleshooting information visit:**  
<http://www.fingerprintdoorlocks.com/help/>



### 9.1 Accessing the Key Hole with the Magnetic Key Cover Tool

**FIRST:** Locate the Magnetic Key Cover Tool.

**NEXT:** Place the magnetic end of the tool directly on the Key Hole Cover.

**NEXT:** Once magnetically attached, simply pull the tool away from the lock and the Key Hole Cover should separate and remain attached to the tool.



### 10.1 Technical Support

---

**For all technical issues, please contact:**

**FAQ's & Video Help Files:**

<http://www.fingerprintdoorlocks.com/help/>

**Phone: 513.239.6322**

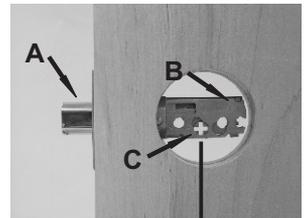
**Email: [support@bioboltlock.com](mailto:support@bioboltlock.com)**



## 11.1 Preparing a Standard US Preparation for Lock Installation

This manual assumes that the door has been prepared for a US standard deadbolt lock. If the door has not been prepared, please refer to the documentation that came with the door cutting hardware.

With the bolt extended (A), locate the stamped “UP” in the top back corner of the bolt (B). Insert the bolt into the prepared hole on the door being sure that the “UP” arrow is pointed upwards. Now, ensure that the cross slot (C) is centered vertically (x-axis) of the hole.



Using the supplied screws, attach the bolt to the door. Attach the bolt to the door loosely at first. You can fasten it down tighter after you have tested the unit and it is functioning properly.



**NOTE:** If the screws are tightened down too much it puts pressure on the tail piece and then on the motor, which will cause the bolt to move slowly.



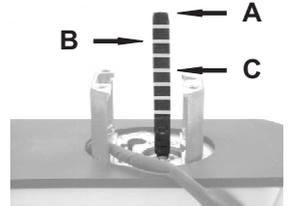
## 11.2 Adjusting the Tailpiece for the Proper Door Thickness

Measure the thickness of the door. The BioBolt often requires the tailpiece that turns the deadbolt be the trimmed to the appropriate length for the thickness of the door.



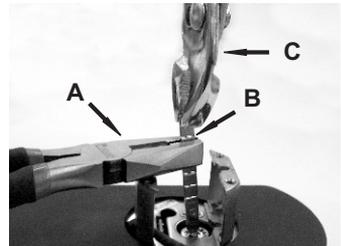
Identify the amount of the tailpiece that will need to be trimmed based on the following:

-  2 1/4" - 2 1/2" = Use Full Tailpiece (A)
-  1 3/4" - 2 1/8" = Trim 2 Notches (B)
-  1 3/8" - 1 5/8" = Trim 4 Notches (C)



With two pairs of pliers, use one pair (A) to hold the tailpiece just below necessary notch (B).

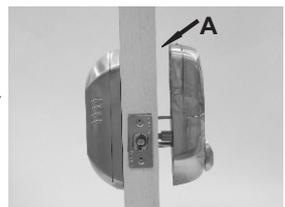
Using the second pair of pliers (C), grab the upper portion of the tailpiece and slightly bend the top portion of the tailpiece being careful **NOT TO MOVE THE BOTTOM PAIR OF PLYERS (A)!!**



Continue to slightly bend the tailpiece **back and forth** until the top portion of the tailpiece breaks off at the desired notch (B).

### Before proceeding with final installation:

Fit the front and back lock bodies together on the door to ensure the tailpiece does not hinder the flush placement of both bodies to the door. If there is ANY gap due to the length of the tailpiece (A), remove one more notch from the tailpiece and repeat this step until the front and back lock bodies join without any gap.



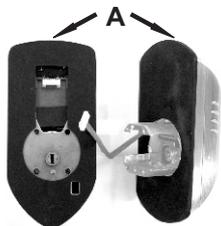
**DO NOT FORCE FRONT AND BACK LOCK BODIES TOGETHER!**

**WARNING: Forcing the front and back lock bodies together may damage the internal motor drive VOIDING THE WARRANTY!!**

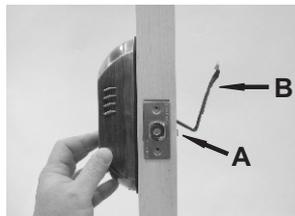


### 11.3 Installing the BioBolt on a US Standard Preparation Door

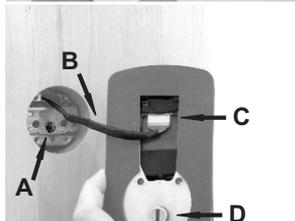
Place the Rubber Gaskets (A) on the rear portions of the front and back lock bodies. A small lip should surround the lock bodies. The portion of the gasket that makes contact with the door should be smooth and flat.



With the gasket attached, place the front lock body (the side with the scanner) through the door hole. Be sure to align the tailpiece (A) vertically through the deadbolt cross slot (E). Only a small portion, if any, of the tailpiece should extend through the door width (A).



Also, be sure to pass the Control Cable (B) through the hole.



With the front lock body held against the door with the tailpiece aligned vertically (A), verify that the Motor Drive Coupler (D) is also aligned vertically.

Now, connect the Control Cable (B) to the corresponding Control Connector (C) on the back lock body.



Align the front and back lock bodies so they are straight on the door. Insert the two bolts in the corresponding holes and try to thread them into the front lock body.



Locate the Bolt Direction Switch (A) just under the batteries. Make sure the Bolt Direction Switch corresponds with the direction that the bolt extends (B). In the example to the right, the bolt extends out of the left side of the door. Therefore the switch should be moved to the left as shown by the diagram (C).

