



DB5000 USER MANUAL



TABLE OF CONTENTS

Introduction	1	Return to Factory Default	7
Compatible Phones	1	Events and Beeps	7-9
App	1	Technical Specifications	9
Door L/R Learning	2	Troubleshooting	10-11
Door L/R Undecided Warning	2-3		
Obtaining Locked/Unlocked Status	3		
Management	4		
Phone Operations	4-6		
Low Battery Warning	6		

REGULATORY COMPLIANCE

The device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC WARNING STATEMENT

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC RF Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Contains Transmitter Module FCC ID: 2AI6W-MCRYA01

1. Introduction

DB5000 is a smart lock with Bluetooth (BLE) capability.

2. Compatible Phones

2.1 . Phones

- iPhone 4S or above with iOS 8.0 or above
- Android 4.3 or above with Bluetooth Low Energy capability.

3. App

Download K3 Connect on Ap Store or Google Play, and register an account. Always update the app to the latest version.



4. Door L/R Learning

The deadbolt lock can be installed on a left handed or right handed door. First, it needs to learn if the handing is left or right for it to operate correctly according to the door handing.

Follow these steps to do L/R learning:

1. Keep pressing the setup button until 4 consecutive beeps are heard.
2. The lock will start to learn whether the door is right handed or left handed. The motor will drive the deadbolt locked/unlocked several times in the learning process.
3. If the lock learned the handing successfully, it will beep and flash green once. If the lock fails to learn the handing, it will beep and flash red 3 times. Please re-install the lock correctly and re-try from step 1.

5. Door L/R Undecided Warning

If door L/R learning has not been done successfully after first time of installation or after the procedure of return to factory default, the following warning will prompt the user to run door L/R learning.

5. Door L/R Undecided Warning (Continuation...)

1. Upon unlocking/locking request, there are 3 short beeps and 3 red flashes, then one second pause, 3 short beeps and 3 red flashes again, following the unlock/lock request indication.
2. There will be 3 short red flashes every 10 seconds while the lock is idle.

6. Obtaining Locked/Unlocked Status after Battery Replacement

The system may lose the locked/unlocked status information after replacing batteries (especially if you turn the thumb-turn while the lock has no batteries). This may cause the deadbolt rotate the motor to the wrong direction.

Follow this procedure to obtain the correct locked/unlocked status after battery replacement:

1. Wait until the lock beeps and flashes green after battery installation.
2. If the deadbolt is locked, then manually turn the thumb-turn to unlock it. If the deadbolt is unlocked, manually turn the thumb-turn to lock the deadbolt.

7. Management

7.1. By Phone

A compatible phone with App installed can be used as Admin of Locks. Management tasks can be performed in the App. An Admin can manage multiple Locks, but one Lock can only have one Admin at a time. Other phones can be Clients of the Lock.

8. Phone Operations

8.1. Pairing to Become the Admin

Follow these steps to set up a phone to be a lock's Admin:

1. In K3 Connect, press the “+” on the top-right corner of the Locks page
2. Fill-in the DIN (db5000) and your selected Lock name, then confirm and put the phone close to the Lock (within 1 meter)
3. Push the setup button inside the back cover.
4. After Pairing, the phone is the Admin of the Lock

8.2. Unlocking

Admin or Client can do Unlocking in multiple ways:

8.2.1. Bluetooth Manual Unlocking

In K3 Connect, go to the LOCKS page, click on the tab of your Lock name to trigger it.

8.2.2. Bluetooth Auto Unlocking

In K3 Connect, go to the LOCKS page, slide-left on the tab of your Lock name, select “Info” and navigate into the menu to enable the Auto Unlocking features.

8.4. Management

The App can do the following management tasks and more:

- Set Names of Locks
- Lock parameters setting (such as Passage Mode or Mute)
- Add/Delete Clients
- Set Client access rights
- Set Client Nick-names
- View Audit Trail
- Check Lock Battery Status
- Update Lock Firmware

9. Low Battery Warning

There are 2 types of indications when the batteries get low:

- After unlocking successfully, the lock will beep 5 times.
- If the battery gets extremely low, after successful authentication you will hear the unlocking failed warning, followed by 5 beeps.

**These warnings will stop once batteries are replaced

10. Return to Factory Default

Follow these steps to reset lock to factory default:

1. Remove battery cover and take-out one battery
2. Keep setup button pressed
3. Replacing the battery while pressing the setup button
4. Wait for 4 beeps then releasing the setup button.
All previous created users and Admin will be deleted.
5. Replace the battery cover.

11. Events and Beeps

Events	Beeps
Setup Button Pressed	2 short beeps
Exit Setup Mode	1 long beep
During Setup Mode	-
Pairing Success	4 beeps ascending tone scale
Pairing Fail	3 short beeps

Events	Beeps
Successful Unlocking	2 short beeps, followed by another beep which indicates successful door unlock
Successfully authenticated but unlocking failed due to door jam or other mechanical error	2 short beeps, followed by 3 short led flashes
Successfully authenticated but unlocking is ignored due to extreme low battery	2 short beeps, followed by 5 short red flashes which indicates extreme low battery
Successful authenticated but unlocking is ignore owing to undecided door L/R	2 short beeps, followed by 3 short beeps, then one second pause, 3 short beeps again
Access Denied	3 short beeps
Successful Locking	1 beep, followed by another beep after the bolt locked successfully
Locking unsuccessfully due to door jam or mechanical error	1 beep, followed by 3 short beeps

Locking operation is ignored owing to extreme low battery	1 beep, followed by 5 short beeps which indicates extreme low battery
Locking operation is ignored owing to undecided door L/R	1 short beep, followed by 3 short beeps, then one second pause, 3 short beeps again
Low Battery During Locking/ Unlocking Attempt	5 beeps after locking/unlocking attempt either successful or unsuccessful
Door L/R Undecided	-

12. Technical Specifications

- User Counts: maximum 1 Admin + 49 Client Phones,
- Audit Trail entry number: 4000 on lock
- Powered by 4x AA Batteries
- Operation Temperature: -20°C to 70°C
- Storage Temperature: -30°C to +80°C
- Radio Frequency: Bluetooth: 2.4GHz

13. Troubleshooting

PROBLEM	SOLUTION
Administrator phone becomes an invalid user	The Admin may lose the administration rights when any of the following happened: <ol style="list-style-type: none"><li data-bbox="554 385 918 451">1. Another Phone was setup as a new Admin<li data-bbox="554 473 918 652">2. Operation of “Deleted All Phones” or “Delete All Codes (exclude Management Code)/ Cards/Phones including Admin” are performed on keypad<li data-bbox="554 675 918 703">3. Return-to-factory-default
Lock is working but no audible sound	Check if parameter setting is in Mute mode
Lock not responding	Change battery and try again
No relocking after unlocking	Check if parameter setting is in Passage mode

PROBLEM	SOLUTION
Bluetooth communication with the lock is not working (For Bluetooth Pairing, Unlocking, or Sync) but other functions of the lock still work	<ol style="list-style-type: none">1. Close the app and relaunch it2. Turn bluetooth off and turn it back on again3. Reboot the phone
Motor not rotating	Door L/R learning not done yet or L/R learning failed. Please run door L/R learning again.



6605 FLOTILLA ST., COMMERCE, CA 90040
TEL. (323) 888-6601 FAX. (323) 888-6699
WEBSITE: www.cal-royal.com
EMAIL: sales@cal-royal.com

