# PSA03 Smart DoorLock

The Doorlock PSA03 is Base on Z-Wave™ technology. It is the Z-Wave™ plus product, it supports the security, OTA... Those newest features of the Z-Wave™ technology. Z-Wave™ is a wireless communication protocol designed for home automation, specifically to remotely control applications in residential and light commercial environments. The technology uses a low-power RF radio embedded or retrofitted into home electronics devices and systems, such as lighting, home access control, entertainment systems and household appliances.

Notice: if user use some command, it have to check device is security bootstrap otherwise some command cannot increment.
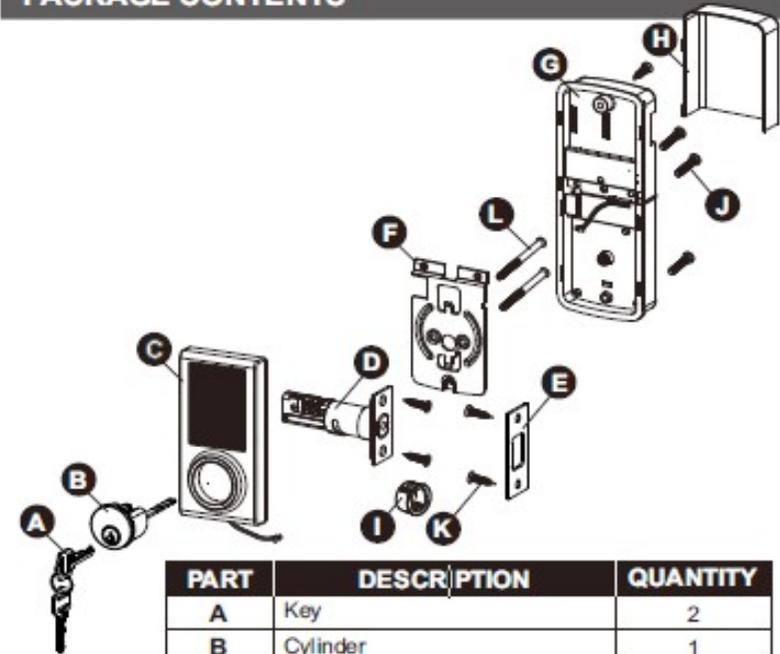
PART	DESCRIPTION	QUANTITY
A	Key	2
B	Cylinder	1
C	Deadbolt Touchpad Assembly	1
D	Deadbolt Latch	1
E	Strike Plate	1
F	Mounting Plate	1
G	Receiver Assembly	1
H	Battery Cover	1
I	Drive-in Sleeve	1
J	Machine Screws	3
K	Wood Screws	5
L	Deadbolt Chassis Screws	2

HARDWARE SCREWS CONTENTS

J

Machine Screws

Qty. 3

K

Wood Screws

Qty. 5

L

Deadbolt Chassis Screws   Qty. 2

LATCH BACKSET ADJUSTMENT

Remarks:
Please notice the slight differences in the latch box between two different backsets.

180°
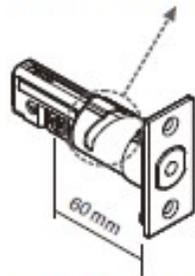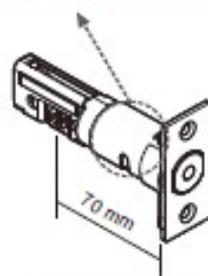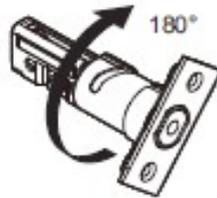
2 3/8" (60 mm)   60 mm

2 3/4" (70 mm)   70 mm

ASSEMBLY INSTRUCTIONS

1. Backset Determination
Backset is a distance from door edge to centre of hole on door face.
Adjustable latch fits both backset of 2 3/8" (60 mm) and 2 3/4" (70 mm).

1
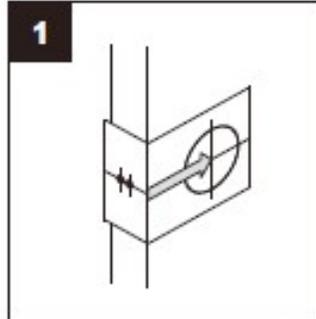
2. Change Latch Face
Determine which latch mounting method will be used and make necessary adjustments.
No adjustment required for square latch face plate.

a. Use a flat screwdriver to separate the face plate.
b. Snap selected latch face plate onto back plate.

2   **D**   ⓐ   ⓑ
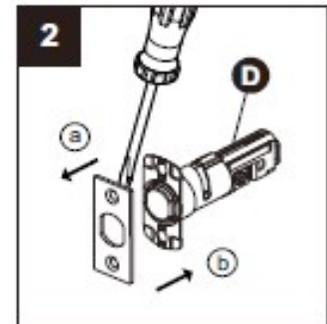
Drive-in Installation
Remove original latch faceplate.
Align the drive-in sleeve (I) as illustrated and snap into the latch case.

2.1   **D**   **I**

Drive-in Latch
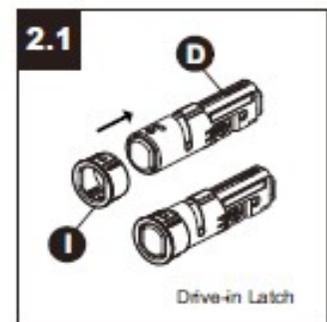
ASSEMBLY INSTRUCTIONS

3. Latch Backset Adjustment

Determine if the latch (D) needs to be adjusted to the 2 3/4" (70 mm) backset.
To adjust, rotate the latch until it stops.
Reverse the direction to return to the 2 3/8" (60 mm) backset.

3

2 3/4" (70 mm)
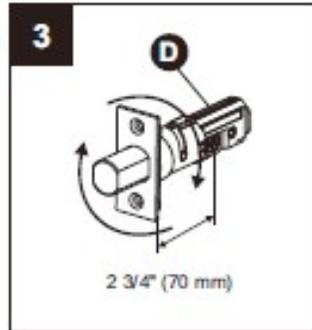
4. Mark the Door with Template

Select the height and backset as desired on the door face; use the TEMPLATE as an indication to mark the centre of the circle on the door face and the centre of the door edge.

4
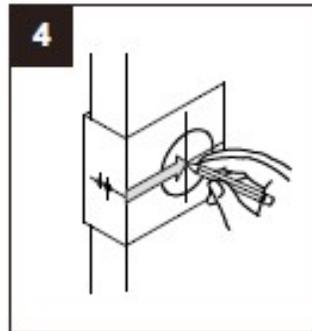
5. Drill Holes

Using the marks as a guide to drill a hole Ø2 1/8" (54 mm) through the door face for the lockset, then a hole of Ø1" (25.4 mm) for latch.

5
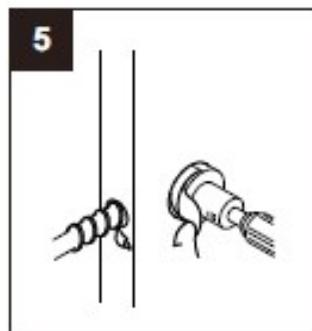
ASSEMBLY INSTRUCTIONS

6. Mark the Outline of Latch Faceplate

Insert the latch (D) and ensure it is parallel to the door face.
Mark the outline of the faceplate, then take out the latch (D).

You need to stay this way up when inserting the latch.
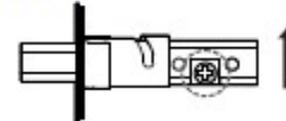
Make sure the cross in the latch is on the bottom.

6
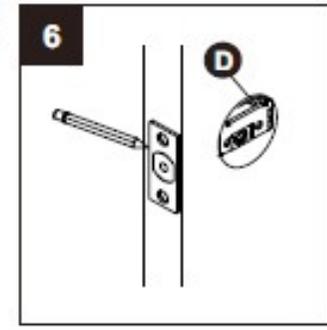
7. Chisel Space for Latch Faceplate

Chisel 5/32" (4 mm) deep along the outline to allow the faceplate to be aligned with the door edge.
Note: It is not necessary to chisel the door edge for the faceplate installation if you use the drive-in latch.

7
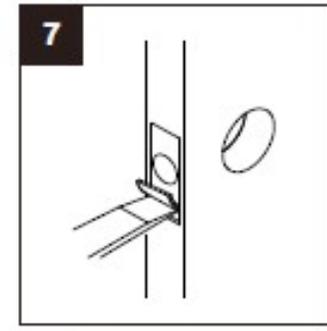
8. Install Latch

Insert the latch (D) into the door.
(Make sure the cross is on the bottom of the latch.) Use 2 wood screws (K) to secure latch. Please do not fully tighten the screws until lock is completely installed.

8

Hardware Used

K   Wood screws x2
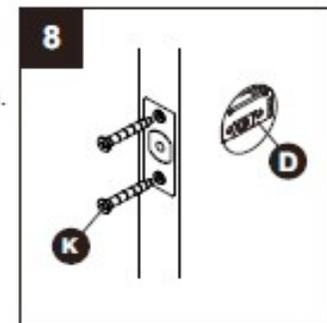
Install Drive-in Latch

Drive the latch (D) into the hole on edge of door.

8.1

9. Mark the Outline of Strike

To identify the centre of strike: close the door to lay the latchbolt against the door frame. Mark the centre line on the doorframe exactly opposite the latch hole in the door edge.

9
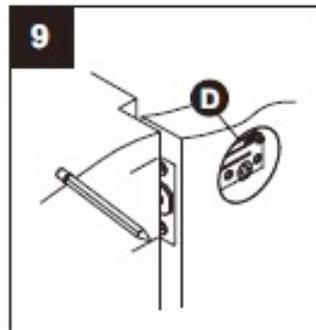
10.1 Drill Hole on Door Frame

Measure one half of door thickness from door stop and vertically mark centre line of strike. Drill 1" (25.4 mm) hole, 1" (25.4 mm) deep at intersection of horizontal and vertical line of strike.
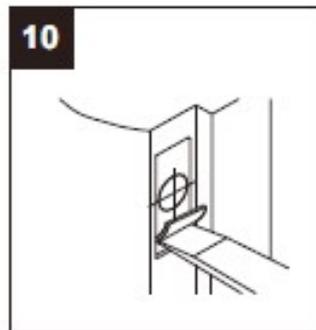
10.2 Chisel Space for Strike

Chisel 5/64" (2 mm) deep along the strike outline to allow the strike to be aligned with the doorframe.

10

11. Install Strike on Door Frame

Install the strike plate (E) into your door frame and tighten with wood screws (K).
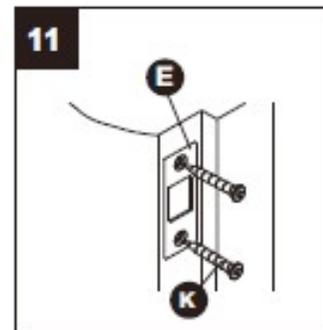
Hardware Used

K Wood screws x2

11

12. Install Touchpad Assembly

Make sure the latch bolt is retracted.

12
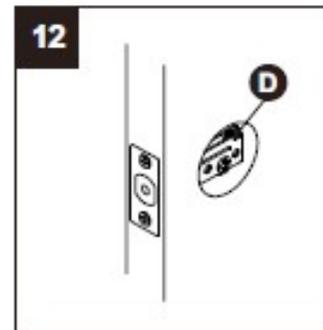
13. Install Touchpad Assembly

Install cylinder (B) into the deadbolt touchpad assembly (C) with tailpiece in horizontal position inserted through hub of the latch.

horizontal position

13
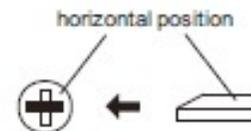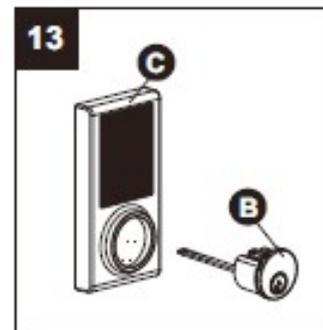
14. Install Touchpad Assembly

Pass the IC wire under the latch (D) to the interior side of the door, and insert the tailpiece through the cross-shaped crank of the latch.

horizontal position
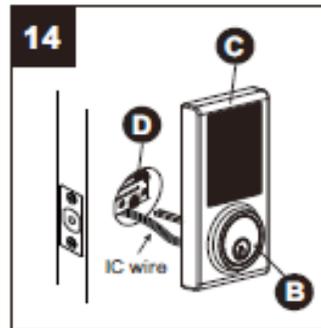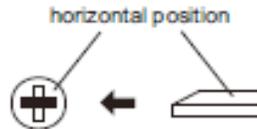
15. Install Inside Mounting Plate

Pass the IC wire through the wire hole of the mounting plate (F). Fix the mounting plate (F) with screws (L). If outside lock assembly is lopsided, please loosen the screws to adjust its position and tighten the screws again.
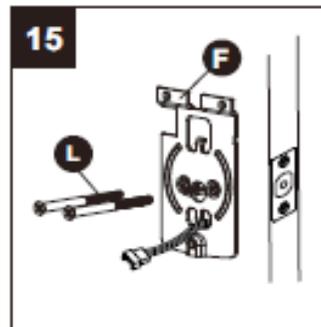
Hardware Used

L Deadbolt chassis screws ▬▬▬ x2

16. Identify Door Handing

Face the door from the outside. The door is left-handed if the hinges are on the left side of the door, whereas the door is right-handed if the hinges are on the right side of the door.
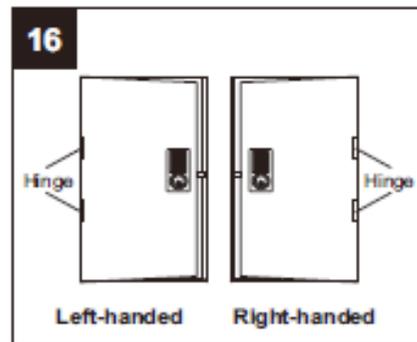
Left-handed   Right-handed

17. Adjust Thumb Turn Piece

Rotate the thumb turn piece to the LEFT at 45 degrees for right-handed doors.
Rotate the thumb turn piece to the RIGHT at 45 degrees for left-handed doors.

For left-handed   For right-handed
door   door
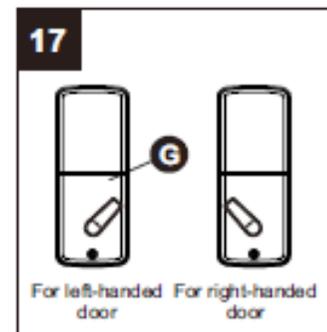
18. Install Receiver Module

Remove the battery cover (H) (push it up first then pull it out).
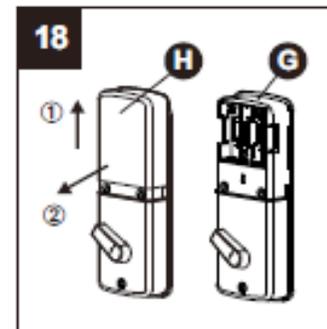
19. Install Receiver Module

Connect the IC wire into the back of the receiver module. Ensure that the deadbolt tailpiece is engaged with turn piece, then attach receiver module (G) to the door with screw (J). Use the optional wood screw (K) to secure the receiver module to wood doors only.

Hardware Used

K Wood screw ▬▬▬ x1

This screw is optional. It may not be necessary to use this screw.

J Machine screws ▬▬▬ x3
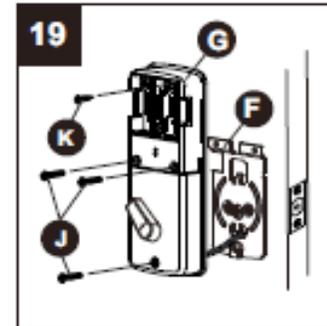
20. Insert Batteries

Insert 4 (AA) 1.5 V alkaline batteries and slide the battery cover (H) back onto the receiver module (G).

Remarks:

(1) Alkaline batteries are recommended in order to stabilize the power supply. If you don't use alkaline, battery performance will be reduced greatly.

(2) All settings will be retained in the memory even if the batteries are completed dead.
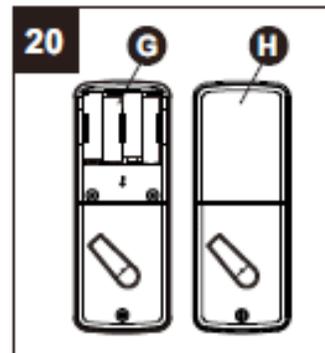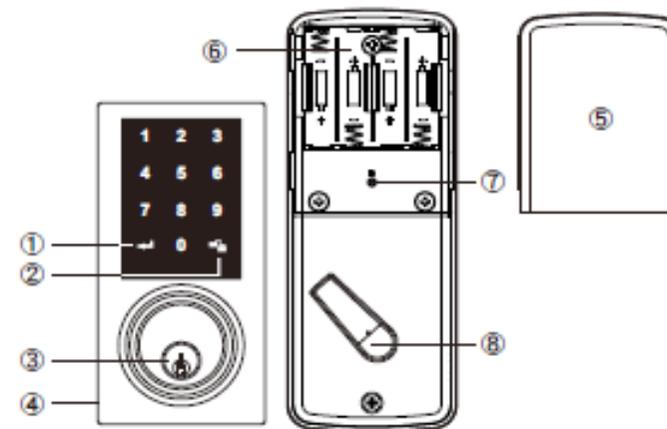
① **Programming Button**

Programming button is for setting function.

② **Lock Btutton**

Lock Button is for lock and unlock function.

③ **Cylinder**

To lock/unlock the lockset by key from outside.

④ **Washer**

Prevents water from permeating into lockset.

⑤ **Battery Lid**

Slide the lid to change the batteries.

⑥ **Battery Holder**

Four AA (1.5 V) alkaline batteries.

⑦ **R Button (Reset)**

Restore default settings.

⑧ **Turn-piece**

To lock/unlock the lockset from inside.

6

OPERATING INSTRUCTIONS

Keep the door open while programming to avoid being locked out accidentally. The lock contains one factory-preset user code but can be programmed to store up to a total of six additional unique user codes. Codes can be added and deleted at any time. For first-time programming, use factory default programming code. It's recommended to change the default programming code and default user code right after you install the lock. Every programming step should be done within 6 seconds.

Operation Indicator Sounds and Lights

Sounds	Lights	Meaning
1 Beep		Successful Operation
2 Long Beeps		Successful Programming
3 Beeps		Operation Error
5 Beeps		Code Input Error; System Shuts Down
10 Rapid Beeps		Low Battery Power
3 Long Beeps		Default Setting Restored
	Lock button flashes slowly	In Programming Mode

OPERATING INSTRUCTIONS

Default programming code (PC): 0000
Default user code (UC): 1234
Your new programming code (PC) _____
Your new user code (UC) _____
The same programming code and user code cannot be accepted.

The lock will cease operation if unauthorized codes are entered over 5 times. The system will unfreeze after 45 seconds.

1. Door Handling Identification Process
The lock needs to learn if your door is a right- or left-handed .

⚠ [Enter PC] → [↵] → [0] → [↵]

DO THIS FIRST

2. Change Programming Code
[Enter PC] → [↵] → [4] → [↵] → [Enter New PC] → [↵]

3. Add New User Code
[Enter PC] → [↵] → [1] → [↵] → [Enter New UC] → [↵]

Note: Up to 30 sets of user codes can be saved. User codes should be 4–10 digits in length.

4. Delete an Existing User Code
[Enter PC] → [↵] → [2] → [↵] → [Enter the UC you want to delete] → [↵]
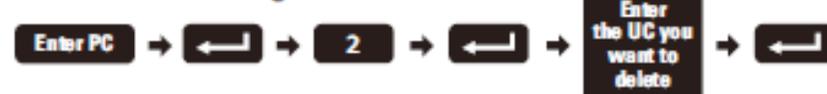
5. Delete All User Codes at Once
[Enter PC] → [↵] → [3] → [↵]

Note: Auto-locking and keypad locking functions will be invalid when user codes are deleted.
The lock can only be operated by key during that time.

6. Toggle Auto-Lock On/Off

| Enter PC | → | ⏎ | → | 5 | → | ⏎ |

Note: The preset delay-time is 30 seconds, you can change the time by following instructions #7.
Repeat the steps in #6 to cancel the auto-locking function.

7. Set Auto-Lock Time Delay

| Enter PC | → | ⏎ | → | 6 | → | ⏎ | → | Enter Seconds (10~99) | → | ⏎ |

Note: 10–99 seconds delay-time available.

8. Enable/Disable All User Codes

| Enter PC | → | ⏎ | → | 7 | → | ⏎ |

Note: Auto-locking and keypad locking functions will be invalid when user codes are disabled. The lock can only be operated by key during the time. Repeat the steps to enable the user codes again.

9. Create a One-Time User Code 4–10 Digits Long

| Enter PC | → | ⏎ | → | 8 | → | ⏎ | → | Enter One Time Code | → | ⏎ |

Note: The one-time user code will automatically cancel after it is used one time.

10. Restore Default Settings

Press (R)

Reset button

Note: Press the button for more than 5 seconds; the programming is reset back to the original factory codes once you hear 3 long beeps. After restoring default settings, you must run the door handing identifying process (#1) again before programming any other functions.
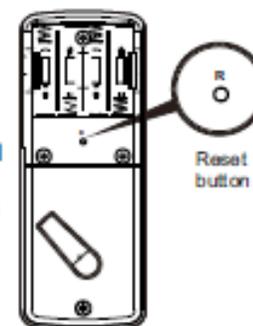
CARE AND MAINTENANCE

Do not use any chemical liquid or lubricating oil with additives to clean the lock body. It will damage the surface or even mainboard.

WARRANTY

The manufacturer warrants the product to be free from defects in material and workmanship for a period of 12 months from the original date of purchase. If you discover a defect in the product covered by this warranty, we will repair or replace the item at our option using new or refurbished components.

EXCLUSIONS

This warranty covers defects in manufacturing discovered while using the products as recommended by the manufacturer rather than occurred by the act of God, and damages caused by misuse, abuse, and unauthorized modification.

LIMITED LIABILITY

The manufacturer will not be held liable for incidental or consequential losses or damages from any act of God.

I. Z-Wave function

"Enter PC" is enter "0000"(default)

function	description
Add	1. check Z-Wave^{TM} Controller entered inclusion mode. 2.Press the Add/Remove function Enter PC → ↵ → 1 → 0 → ↵ 3.After adding successful, it will have twice beep sounds. if inclusion fail it will have five beep. Notice 1: if you reset doorlock, you have to do OPERATING INSTRUCTION no.1(door handling identification process) Notice 2: if Door lock in learn mode,device can stop on operation setting mode,until success include or 60s time out.
Remove	1. check Z-Wave^{TM} Controller entered exclusion mode. 2.Press the Add/Remove function Enter PC → ↵ → 1 → 0 → ↵ 3After removing successful, it will have twice beep sounds. if remove fail it will have five

	beep. Notice 1 : if you reset doorlock ,you have to do OPERATING INSTRUCTION no.1(door handling identification process)
Reset	1.Press the Restore function in section OPERATING INSTRUCTION no.10 2.Device can send reset locally notification note : Please use this procedure only when the network primary controller is missing or otherwise inoperable.
Lock	1.Z-Wave^{TM} Controller use Command Class Door Lock 2. Use Command Door Lock Operation Set 3.Set value to 0xFF, it means door secured.
unlock	1.Z-Wave^{TM} Controller use Command Class Door Lock 2. Use Command Door Lock Operation Set 3.Set value to 0x00, it means door unsecured.
Add usercode	1. Z-Wave^{TM} Controller use Command Class User Code 2. Use Command User Code Set 3. Set User code ID, User code Status, Usercode note: User code ID range is 1~30, User code Status 0x01, Usercode length is 4~10,
Remove usercode	1. Z-Wave^{TM} Controller use Command Class User Code 2. Use Command User Code Set 3. Set User code ID, User code Status,

	Usercode note: User code ID range is 1~30, User code Status 0x00, Usercode length is 4~10,	

S2 inclusion	1.User can get our Full DSK string on my battery cover notice: underline five digit is PINcode Ex: mydsk 10190-35370-09760-44693-14490-09979-57572-04945 2.Let Gateway in inclusion mode, User can key first five digit on our App UI, then if first five digit is correct, S2 inclusion can success.
Smart start	1.User can scan our Qrcode on our app, and then if device power on , device can auto include

2.SmartStart enabled products can be added into a Z-Wave network by scanning the Z-Wave QR Code present on the product providing SmartStart inclusion. No further action is required and the SmartStart product will be added automatically within 10 minutes of minutes On in the network vicinity

*notice1:user must check device have be exclude.
*notice2:the QR Code is printed on a material that resists being removed.
*notice3:Qrcode is button of doorlock,

association	The device support two group Group 1 name: Lifename Group 1 command list: COMMAND_CLASS_BATTERY, COMMAND_CLASS_DOOR_LOCK_V2, COMMAND_CLASS_DEVICE_RESET_LOCALLY, COMMAND_CLASS_NOTIFICATION_V3,

	max node of group:5 Group 2 name: Doorlock Op Group 2 command list: COMMAND_CLASS_DOOR_LOCK_V2, max node of group:5

Z-Wave Configuration Settings

NO	Name	Def	Valid	description
1	RFvoice setting	0x01	0x00 & 0x01	If set value to 0x00, RF setting can let voice turn off

Notice 1: Always REMOVE a Z-Wave™ device before trying to add it to a Z-Wave™ network.

Notice 2: if battery level less than 4.3V, doorlock can run
shut down mode. Touch panel operation can be stop until change battery.

Notice 3: keypad locking function will be invalid when usercode all deleted, the lock can be operated by key during that time.

Notice 4: This product can be operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers. All non-battery-operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

II. Z-Wave™ Message Report

When you lock or unlock the door, the device will report the door lock status as event to controller.

* Door Lock Status Report:

When you lock or unlock the door, the device will unsolicited to send the report to the nodes in the group 1.

Door Lock Operation Report (V2)
Unlock Current Door Lock Mode: Door Unsecured=00 Lock Current Door Lock Mode: Door Secured=FF unknow Current Door Lock Mode: Door Secured=FE

VIII. Over the Air Firmware Update

The device supports the Z-Wave firmware update via OTA.
Let the Z-Wave™ Controller into the firmware update mode, chose the hex file to update. Wait for 10~15 minutes.
At that time, please don't remove the battery, otherwise it will cause the firmware broken, and the device will no function.
Result will show in Z-Wave™ Controller log.

X. Z-Wave Supported Command Class

COMMAND_CLASS_ZWAVEPLUS_INFO
COMMAND_CLASS_SUPERVISION,
COMMAND_CLASS_TRANSPORT_SERVICE_V2
COMMAND_CLASS_SECURITY
COMMAND_CLASS_SECURITY_2
COMMAND_CLASS_CONFIGURATION
COMMAND_CLASS_VERSION*
COMMAND_CLASS_NOTIFICATION*
COMMAND_CLASS_MANUFACTURER_SPECIFIC*

COMMAND_CLASS_DEVICE_RESET_LOCALLY*
COMMAND_CLASS_POWERLEVEL*
COMMAND_CLASS_BATTERY*
COMMAND_CLASS_DOOR_LOCK*
COMMAND_CLASS_USER_CODE*
COMMAND_CLASS_ASSOCIATION_V2*
COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION_V2*
COMMAND_CLASS_ASSOCIATION_GRP_INFO*
COMMAND_CLASS_FIRMWARE_UPDATE_MD_V2*
* Command Class Requires Security

XI. Simple Troubleshooting

1. After the installation of lockset and batteries, the door cannot be locked, and three short beeps are emitted when you press the Programming button.
Causes: The door-handling identifying process is not yet complete.
Solution: Please execute the door-handling identifying process as soon as the installation of the lockset is completed.

2. After the installation of the lockset and batteries, no responses when you press any button (no sounds are emitted, and the back light does not work).
Cause: It could be a problem caused by the batteries or the improper connection of the cable.
Solution: Check to see if the battery polarities have been reversed or if the battery is dead. If so, please reinstall or change the battery. If not, please check if the cable is appropriately connected.

3. Fail in the first execution of the door-handling identifying process (the red-light flashes three times, and three short beeps are emitted).

Cause: Wrong door-handling or change of the door-handling in the memory.
Solution: Press the R button to restore the system to factory default setting and re-execute door-handling identifying process.

4. Although succeeded in the first execution of the door-handling identifying process, the latch does not work. (Feeling that the motor runs powerlessly, the latch bolt is stuck, and the turn-piece inside cannot be rotated).
Cause: Low battery.
Solution: Please replace with new batteries.

5. The functioning has been normal, but suddenly, the latch bolt locks up, and the turn piece inside cannot be rotated, not even with key.
Cause: The detection of latch bolt position is abnormal.
Solution: Please take out one battery first, then press any button on
the front panel for electric discharge, and put the battery back next. The latch bolt will automatically re-detect its position subsequently.
Attention: When the latch gets stuck frequency, please check if the opening of the strike aims at the central position of the latch bolt, if the latch bolt can stretch out freely, or if the hinges are deformed or tilted.

6. The door can be locked normally, but three shorts beeps are heard and the door would not unlock when the user code is entered and the programming button is pressed.
Cause: The functioning of the micro-switch is abnormal.
Solution: Please unlock the door with the keys first and then contract

the distributor for inspection and maintenance.

7. While the door is closed, you hear the latch bolt coming out when you press the programming button to lock the door; however, three shorts beeps are emitted. Conversely, while the door is open, no beeps are emitted when locking the latch bolt.
Cause: (1) The depth of latch bolt hole is insufficient.
(2) The latch bolt is not aimed at the opening of the strike.
Solution: (1) Please dig the latch bolt hole for the strike deeper (min. Depth of 2.5 cm).
(2) Please adjust the strike to the appropriate position.

Specification

Rated Voltage	DC6V; (Battery AA x 4)
Battery type	Alkaline Battery AA (LR6)
Operating Temperature	0°C - 40°C
Location	In door use
Frequency Range	868.40MHz & 869.85MHz / EU 908.4MHz & 916.0MHz / USA 922-927MHz / JAPAN
RF Maximum Power (Peak)	+5dBm (Peak)
RF Maximum Power (Average)	-10dBm (Average)
Transmission Range	Minimum 40 m in door 100m outdoor line of sight
Modulation Type	FSK (Frequency-Shift Keying)

** Specifications are subject to change and improvement without notice.

FCC ID: RHHPSA03

CAUTION
Risk of explosion if battery is replaced by an incorrect type.
Dispose of used battery according to the instructions.

Choosing a Suitable Location
1. Do not locate the Module facing direct sunlight, humid or dusty place.
2. The suitable ambient temperature for the Module is 0°C~40°C.
3. Do not locate the Module where exists combustible substances or any source of heat, e.g. fires, radiators, boiler etc.

Disposal

	This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was

	purchased. They can take this product for environmental safe recycling.

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FCC Interference Statement
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 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.
This 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 Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.