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Oracode
480-480i Series

Installation Instructions

EN

ORACODE 480 - 480i SERIES
INSTALLATION GUIDE FOR DOOR THICKNESS 1 3/8" TO 2"
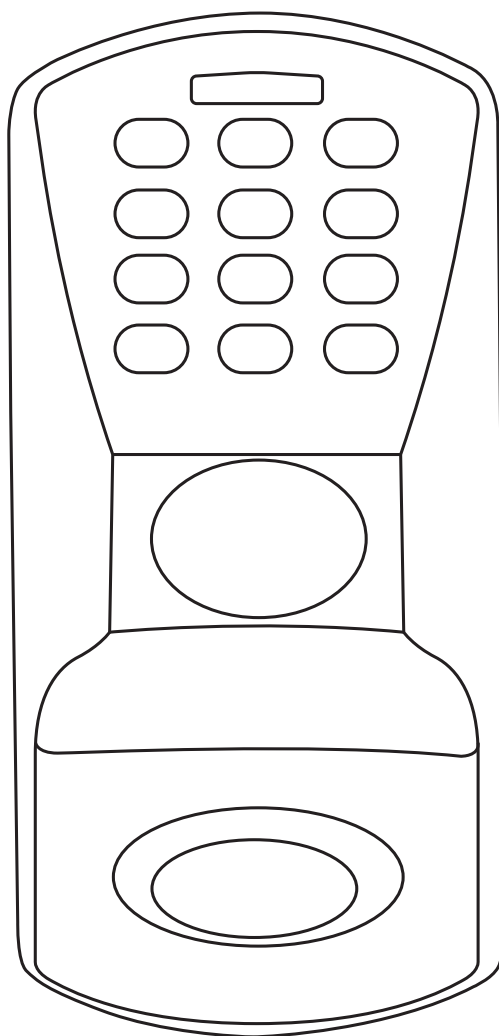
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⚠ WARNING

1. Please read and follow all directions carefully.
2. **This lock is not designed to be used on emergency exit doors.**
3. Carefully inspect glass, door frame, door etc. to ensure the recommended procedure will not cause damage. dormakaba standard warranty does not cover damages cause by installation.
4. Wear safety glasses when making the holes.
5. All the following operations and testing of the lock to be done with door open.

Tools Required

- Safety Glasses
- 1/2" (13mm) Chisel
- 1/8" (3mm) Drill Bit
- 5/32" (4mm) Drill Bit
- 1" Drill Bit or Hole Saw
- 2 1/8" (54mm) Hole Saw
- Drill
- Awl or Center Punch
- Screwdriver, 1/8" slotted
- Phillips Screwdriver (#2)
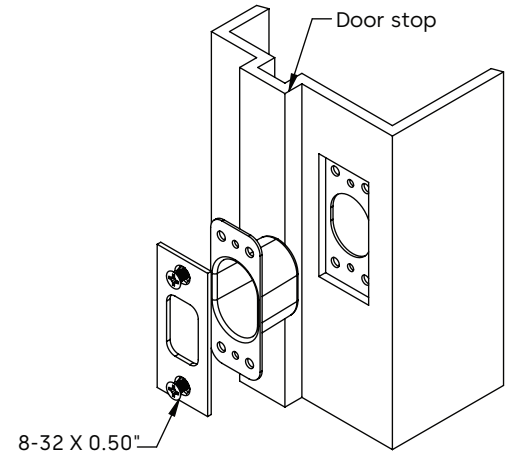- Adjustable Square
- Tape Measure

1A Install strike on wood frame

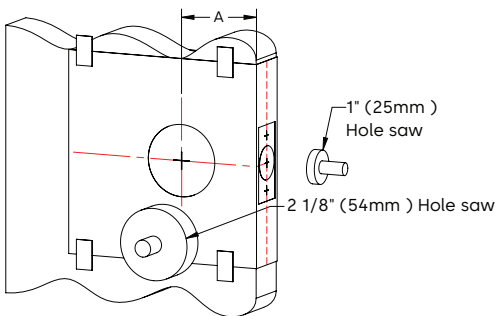For maximum security, install reinforcing plate.
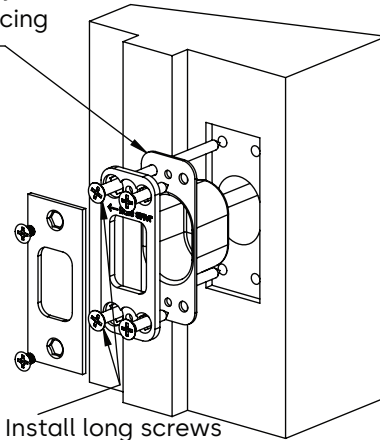
Install long screws in door stop side

1B Install strike on steel frame

Door stop

8-32 X 0.50"

1C Door Preparation

1" (25mm) Hole saw

2 1/8" (54mm) Hole saw

A = Backset = 2 3/4" (70mm) or 2 3/8" (60mm)

1. Determine which template fits your 480 lock installation, either 2 3/8" (60mm) or 2 3/4" (70mm) backset.
2. Place appropriate template (supplied) onto door and mark holes.
3. Drill holes as per dimensions on the template, the 1" (25mm) hole to be on the center line of door thickness.
4. Mortise door edge for dead bolt face plate.
5. Drill 2 1/8" from both sides of the door to prevent unsightly damage.

2 Adjust backset of deadbolt


Do not remove tape
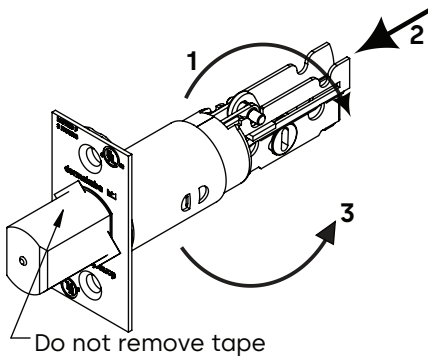
The dead bolt is pre-set at 2 3/4" (70mm) backset. Proceed as illustrated to change to 2 3/8" (60mm) backset, if required.

3 Install dead bolt in door

Do not remove tape
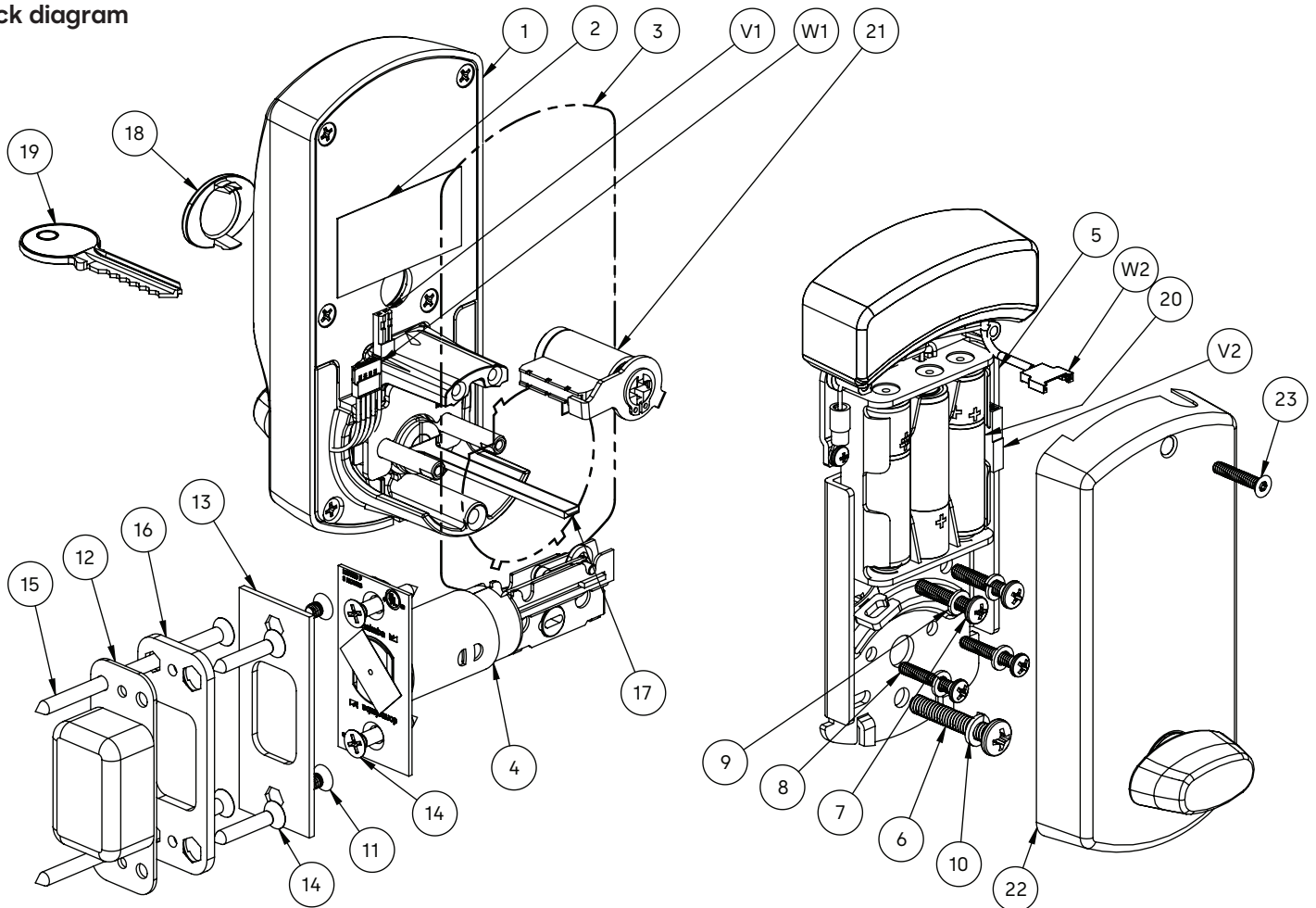
Slot at the bottom

2X (14)
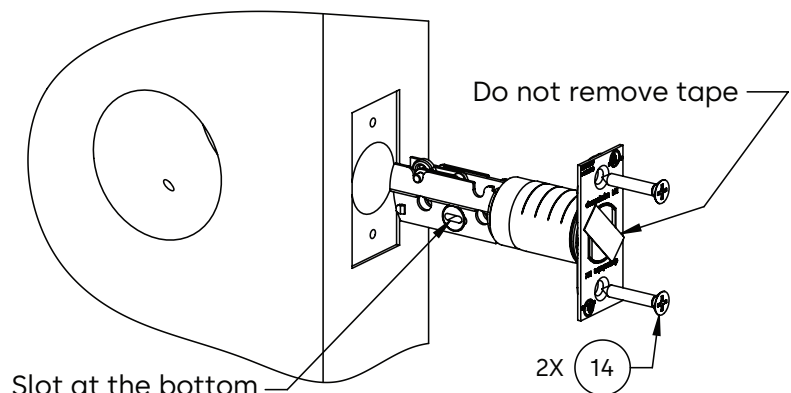
Parts list

1. Outside Housing Assembly (1)
2. Bar Code Label (1)
3. Outside Housing Gasket (1)
4. Dead Bolt (1)
5. Inside Trim Assembly (1)
6. Machine Screw, Pan Head, SS, PH #3, 12-24 (1)
7. Machine Screw, Pan Head, ZP, PH #2, 8-32 (2)
8. Machine Screw, Pan Head, ZP, PH #2, 6-32 (2)
9. Split Lock Washer, No. 8, SS 18-8 (2)
10. Split Lock Washer, No. 12, SS (1)
11. Machine Screw, Flat Head, Brass, PH #2, 8-32 x 7/32" (2)
12. Dust Box (1)
13. Striker Plate (1)
14. Wood Screw, PH #2, #8 x 1" (4)
15. Wood Screw, PH #2, #8 x 3" (2)
16. Reinforcing Plate (1)
17. Tail Piece Door 1 3/8" to 2" (1)
18. Cap (1)
19. Override Key (May be shipped separately) (1)
20. Battery Cell, AA Alkaline (3)
21. Key Cylinder (May be shipped separately) (1)
22. Inside Cover (1)
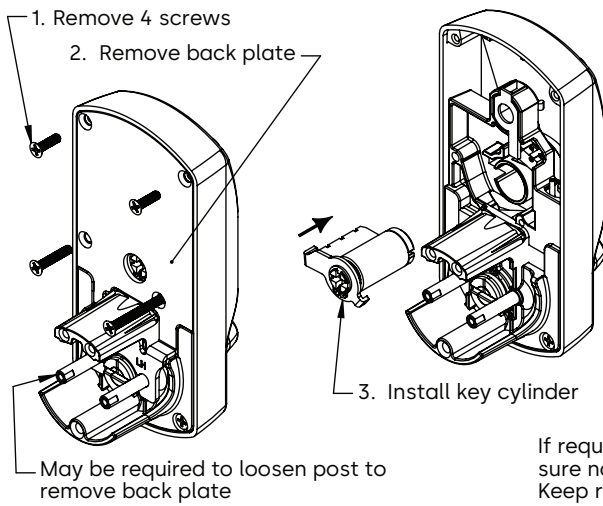23. Machine Screw, Flat Head, SS 304, PH #2, 6-32 x .750 (1)
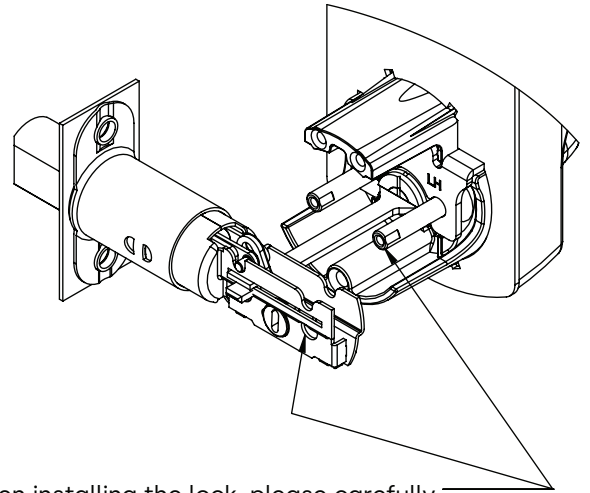
When installing the lock, please carefully slide post through deadbolt holes

Lock diagram

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4 Key override cylinder

If cylinder is not already assembled in the lock, proceed as follow.

1. Remove 4 screws
2. Remove back plate

3. Install key cylinder

May be required to loosen post to remove back plate

4. Wire shall not be pinched when re-installing back plate
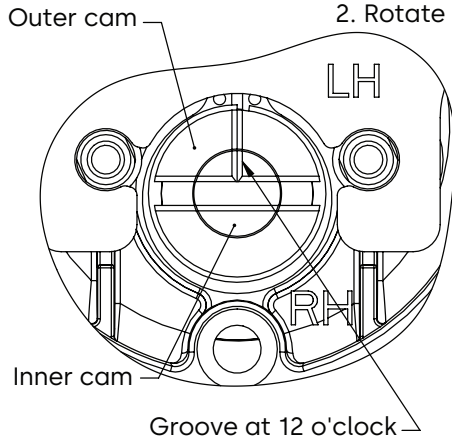5. Re-assemble back plate using screws as shown

WARNING
POST ARE MANDATORY FOR FIRE CERTIFICATION AND SHALL NEVER BE REMOVED

If required, re-tighten post while making sure not to pinch retaining ring.
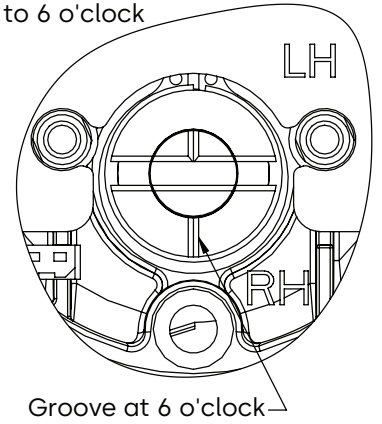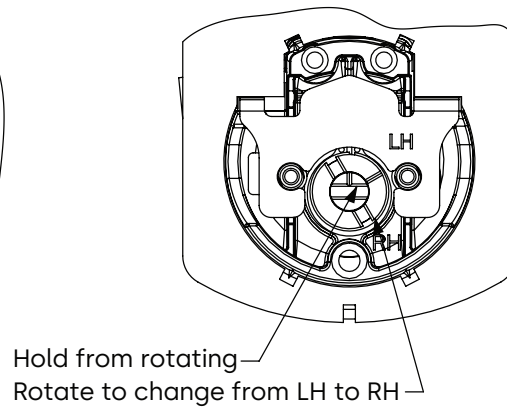Keep retaining ring at 12 o'clock position.

Wire must not get pinched.

Override switch
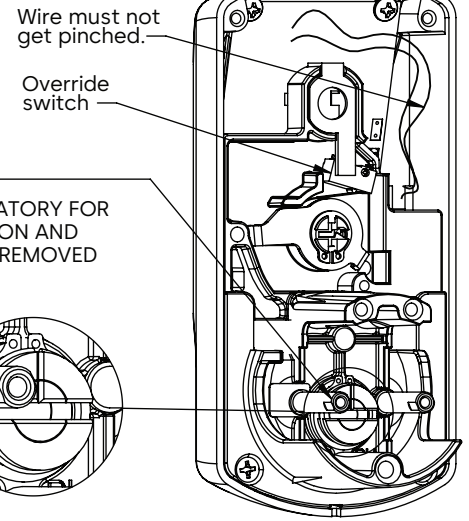
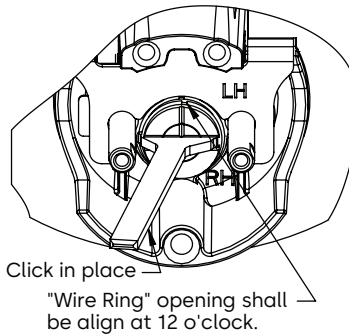## 5 Adjust lock handing on outside housing assembly

Left hand (LH)

Right hand (RH)

1. Hold inner cam in place, groove always points to 12 o'clock.
2. Rotate outer cam counter clockwise until groove points to 6 o'clock

Outer cam

Inner cam

Groove at 12 o'clock

Hold from rotating

Rotate to change from LH to RH

Groove at 6 o'clock

6 Assemble tail piece

Click in place

"Wire Ring" opening shall be align at 12 o'clock.

7 Remove inside cover
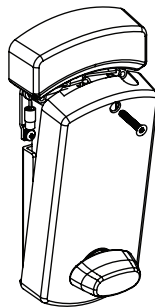
8 Assemble outside housing

Remove tape

Make sure the power cable run inside cylindrical hub before mounting the lock on door panel.

Run cable through door and under deadbolt

Run cable throught inside trim 'back plate slot.
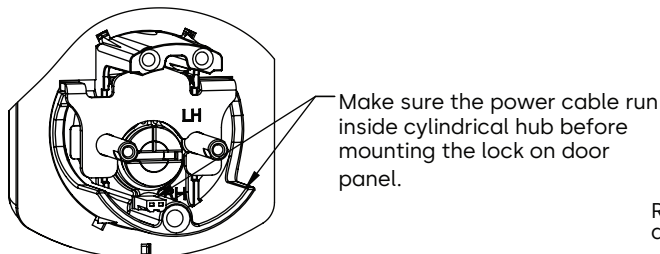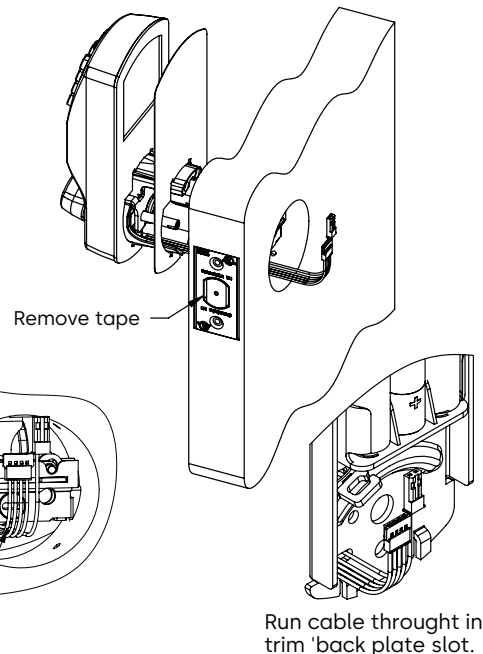
9 Install inside trim assembly

Connect w1 to w2
(communication if applicable)

Connect v1 to v2
(power)

Use short 8-32 screws on door thickness 1 3/8" up to 1 21/32".
Use long 8-32 screws on door thickness 1 21/32 up to 2.0"

Use short 6-32 screws on door thickness 1 3/8" up to 1 21/32".
Use long 6-32 screws on door thickness 1 21/32 up to 2.0"

Use 12-24 screw
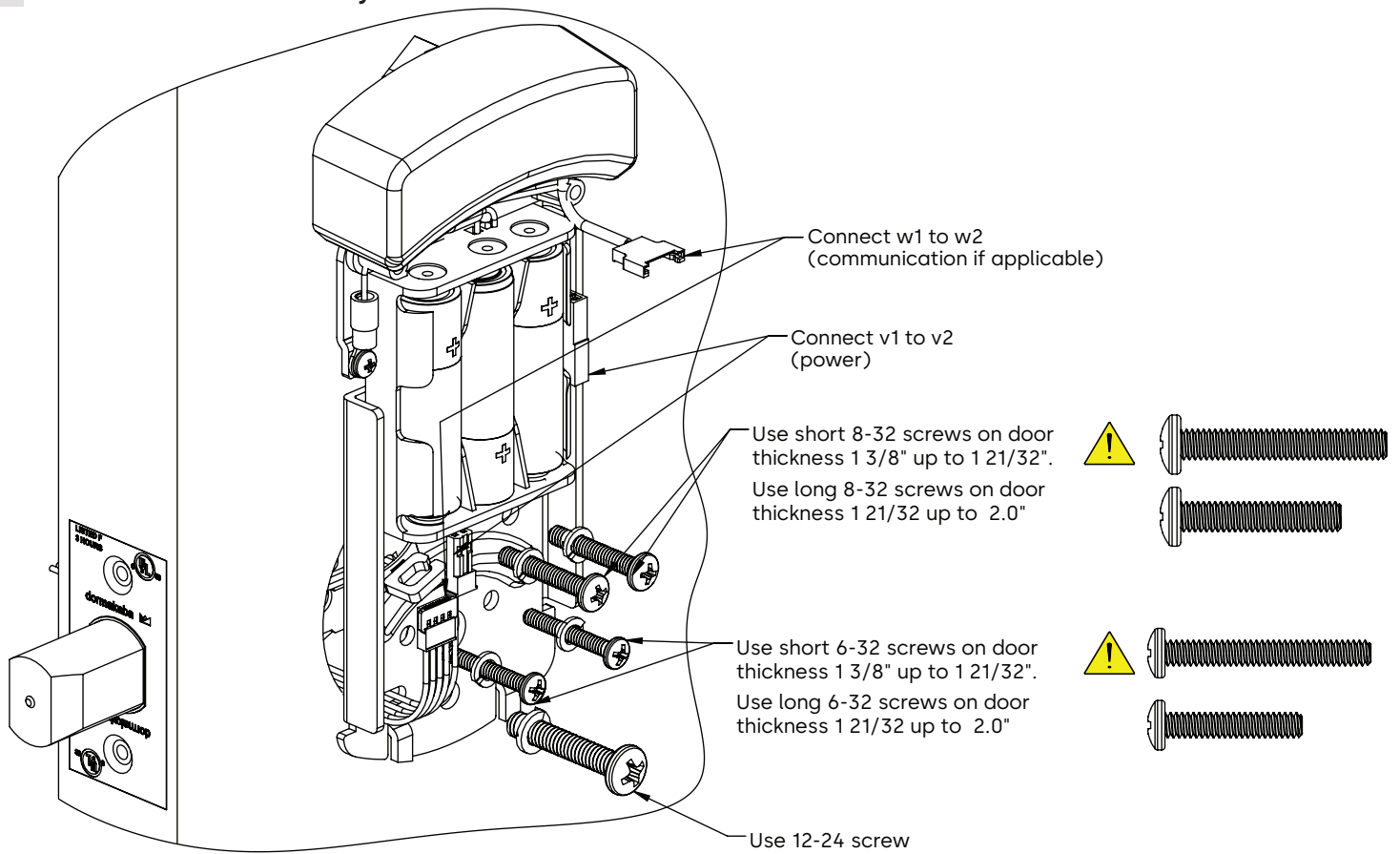
1. Before tightening the screws verify functionality by extracting and retracting the Deadbolt. The dead bolt should move smoothly.

2. All screws shall be thighten properly.

3. Connect batteries, v1 to v2, after tightening all screws and wiring w1 & w2.

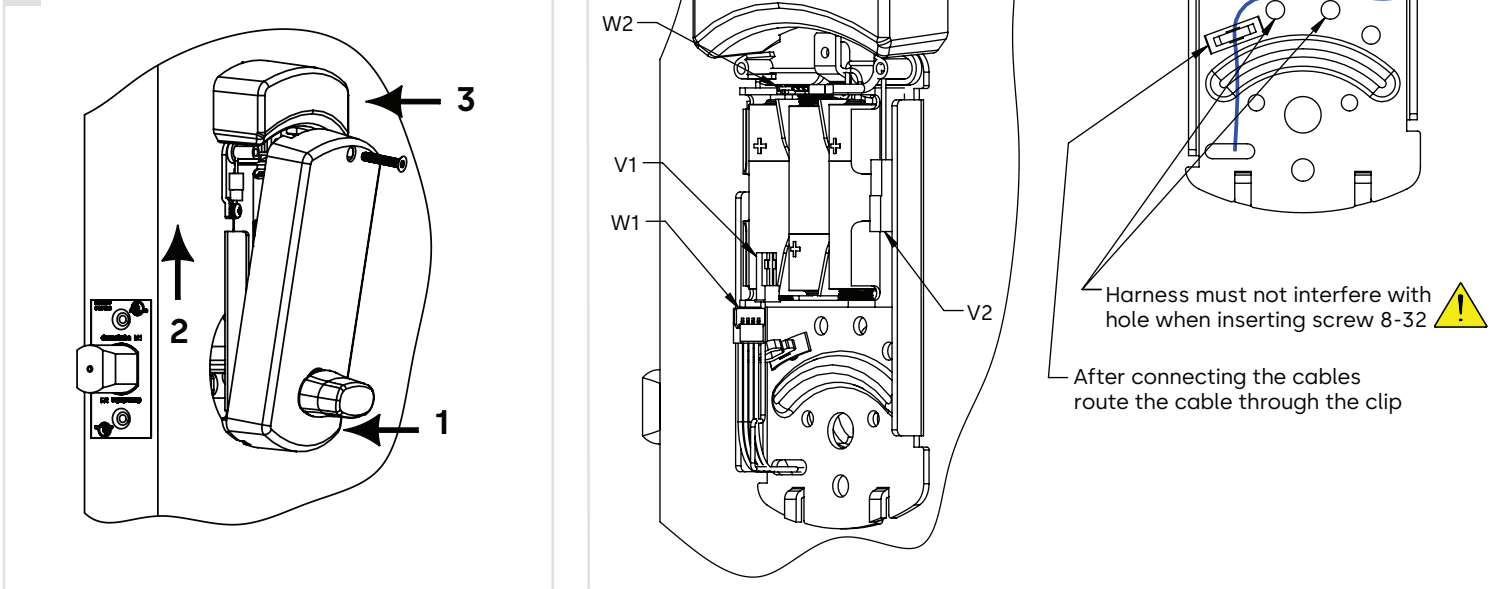4. Longer screw available for door over 2" to 2.5" Please order hardware kit 062-515743.

5. Warning: using the long screw for door below 1 21/32" will damage the mechanism.

10 Install inside cover

3

2

1

W2

V1

W1

V2

Harness must not interfere with hole when inserting screw 8-32

After connecting the cables route the cable through the clip

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11 Lock Programming

> ⚠ **IMPORTANT**
>
> If your lock is already pre-programmed, you can go directly to section 3 below. Otherwise, follow the instructions in sections 1 and 2 below to program the lock.

1. Maintenance unit

To program the lock, you will need a Maintenance Unit running the Oracode application and the correct door configuration. You will need to login on the dormakaba e-code website (www.kaba-ecode.com) with a valid Username and Password in order to create the door and download it to the Maintenance Unit. If necessary, contact the dormakaba Technical Support Hotline (1-888-217-5654 US & Canada), (1-514-340-9025 International) or contact your Oracode representative for assistance.
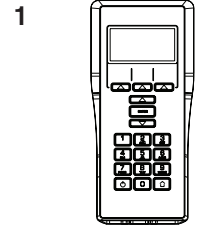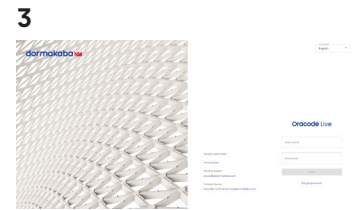
2. Lock programming

Program the lock using the Oracode Maintenance Unit.
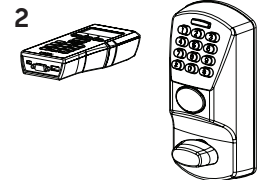
3. Code generation

Generate a valid code for this door on the www.kabaecodewireless.com website. You will need to login with a valid Username and Password in order to generate codes

4. Code entry and access

Enter the valid code on the lock keypad. A short beep can be heard and the green LED flashes for each key pressed. You will hear a longer beep and see a longer green LED flash when the code is accepted. The outside turn knob is then engaged for several seconds (5 to 15seconds, depending on the configuration). If a red LED flashes and a low-pitch beep is heard when the code is entered, this indicates that the code is refused.
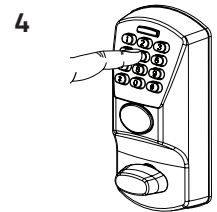
> ⚠ **IMPORTANT**
>
> Make sure that the door is programmed properly and a valid code is accepted. If a valid code is not accepted, contact the dormakaba Technical Support Hotline.

1

2

3

4

12 Testing the operation of the lock

> ⚠ **WARNING**
>
> Perform all the following with the door open.

1. Project the dead bolt if it is not projected.
2. Turn outside thumbturn, the deadbolt must not retract. See Fig. 1.
3. Enter code.
4. Retract dead bolt from outside. See Fig. 2.
5. Wait 15 seconds.
6. Rotate outside thumbturn to project the dead bolt.
7. Rotate inside thumbturn to retract the dead bolt. See Fig. 3 & Fig. 4.
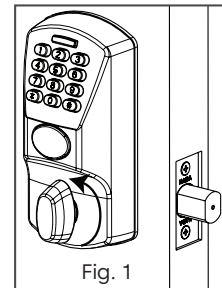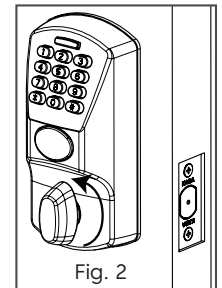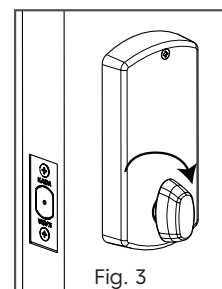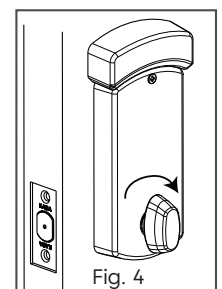

Fig. 1

Fig. 2

Fig. 3

Fig. 4

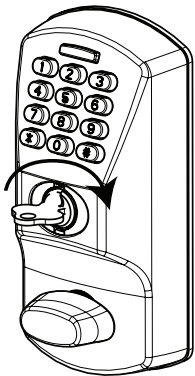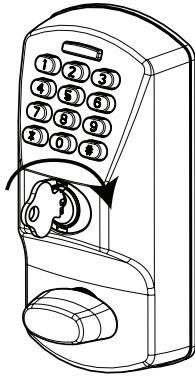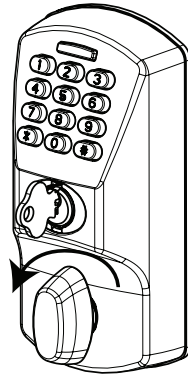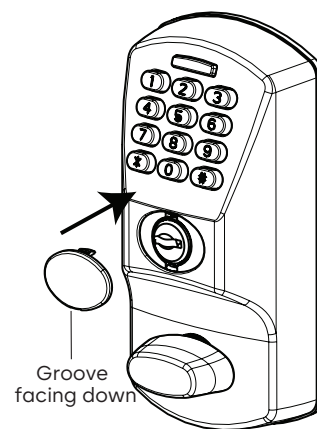| **13** | **Testing the mechanical override (with door open)** | **14** | **Cover the key hole** |

Fig. 4   Fig. 5   Fig. 6

1. Project the dead bolt from outside or inside.
2. Insert key and rotate it clockwise until it stops. See Fig. 4 & Fig. 5.
3. Rotate outside thumbturn to retract the dead bolt. See Fig. 6.

NOTE: The key override always rotates clockwise

Groove facing down

---

15   Maintenance when required

1. Time programming

The time is set automatically in the lock when the lock is programmed. The Oracode lock time should then be reset every year with the Maintenance Unit to ensure accurate time.

The lock has an internal battery back-up that keeps the internal time accurate for a minimum of four weeks when the lock's batteries are disconnected. If this period is surpassed and the lock time is lost, the green LED will blink twice after a valid code is entered, and the red LED will blink twice after a code is refused. This indicates that the time must be reset with the Maintenance Unit.

2. Reset to factory default

NOTE: You will need to reprogram the lock with a Maintenance Unit after you perform a Reset to Factory Default.

Perform the following steps to erase a lock's configuration and restore the default factory settings.

1. Remove the inside cover and remove the batteries.
2. After 1 minute, re-install the batteries. The green LED should blink quickly for 15 seconds.
3. Press #,#,# while the green LED is blinking. The green and red LED should blink one after the other for 15 seconds.
4. Press 1, 2, 3, 4, 5, 6 while the red and green LEDs are blinking. You will hear a longer beep and see a longer green LED flash when the code is accepted and the default factory setting are restored. If a red LED flashes and a low-pitch beep is heard, this indicates that the code is refused.

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ORACODE 480i SERIES - Wireless Lock with Smart Controller

16 Oracode smart controller installation

1. Smart controller positioning

- Avoid placing the Smart Controller in close proximity (< 5 feet / 2 m) to a Wi-Fi device.

- Position the Smart Controller within 33 ft / 10 meters of the lock.

- Avoid heavy obstruction between the Smart Controller and lock (e.g., metallic or concrete wall or floor).

- Avoid placing the Smart Controller close to metallic objects (e.g., metallic table, refrigerator, filing cabinets, etc.).

2. Smart controller connection

- Connect the Smart Controller to the Internet modem/router using the Ethernet Cable.

- Boot up the Smart Controller by connecting the Power Adapter.

- The Smart Controller will perform any necessary updates during the boot-up process, and the green LEDs on the top of the Smart Controller will come on (no specific order). The boot-up process can take from 30 seconds to a few minutes.

- Wait until all green LEDs are on. This confirms the Smart Controller has successfully performed all necessary updates and is ready to connect to the Oracode Server.

NOTE: The ZigBee LED may not illuminate during the initial installation. This is normal in most situations. Proceed with Wireless Lock Activation.

Smart Controller Front

Smart Controller Back

USB Ethernet Power Reset
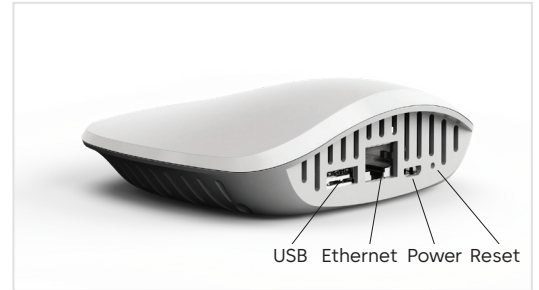
Power adaptor & Ethernet cables

17 Wireless lock activation (put on-line)

1. Activation code generation

- Log on to your Oracode Live account (www.kabaecodewireless.com).

- Go to 'Door Monitoring & Management' then to 'Door Monitoring'.

- Within the 'Door Monitoring' module, select the door to be activated from the door list, and click the 'Activate as Wireless' button.

- Select the Time Zone where the controller & lock will be located. The Network Name will be populated automatically, using the Door name as its basis. This can be edited if need be.
Click on the 'Save Changes' button.

- When you click the 'Save Changes' button, the Activation number will be provided.

- Use this number to complete the Activation Process in the following steps 17.2 (for Oracode Live) or 17.3 (for BeHome247).

Oracode Live

Username

Password

17 Wireless lock activation (put on-line)

Oracode Smart Controller

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051-e450

Powered by Ezlo
Input: 5V⎓3A
Polarity: ⊖⬤⊕
Made in China

FCC ID: 2AIYWPLUS450
IC: 26382-PLUS450 CAN ICES-003(B)/NMB-003(B)

Serial:XXXXXXXX
MAC: XX:XX:XX:XX:XX:XX
WIFI: XXXXXXXX
SSID: wifi_XXXXXXXX

PIN:XXXXX

Z−Wave S2

2.   Activation process (with Oracode Live)

- Once the Activation number is provided, a new field will be presented where the Smart Controller's MAC address is to be entered.
- Enter the controller's MAC address (located on Bottom Label), and then click the "Enable Discovery Mode" button.
- The Smart Controller will be in ZigBee "Join" mode for 10 mins, and the ZigBee LED on the Smart Controller will be blinking.
- On the lock keypad, press * # * # and enter the 8-digit Activation Code to start the activation process.
- The lock's green LED will blink once at the beginning of the activation process (the activation process could last from a few secs to 2 mins).
- A green LED and a high-pitch beep indicates successful connection to the Oracode Server.
- A series of silent green LED blinks will follow. This is the lock programming being received from the Oracode Server. Once there are no more silent green LED blinks, the lock programming is complete.
- The Door Details page within Oracode Live for the activated door will be displayed, confirming that the Activation Process is complete.
- A red LED and a low-pitch beep at the end of the activation process indicates a failure. In the case of a failure, follow the below steps and then start the activation process again:
  - Remove only one battery, wait 5 seconds and insert it again. As soon as the green led light begins to blink, press ###123456, a beep will be heard with a green light indicating that it was successful.

Green LED   Red LED
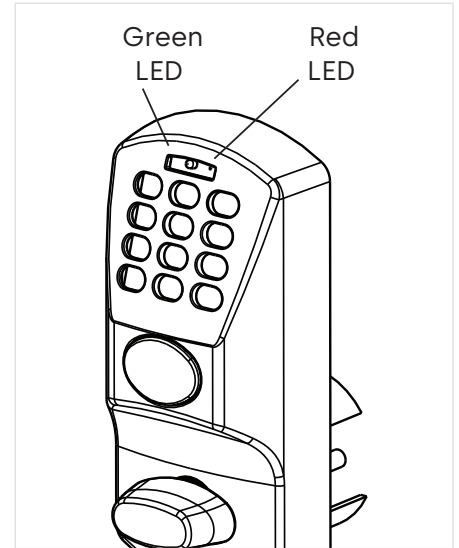
18 Oracode smart controller diagnostics

Smart Controller Back

1.   Lock to smart controller "connection" status

- Entering # # # 2 on the lock keypad triggers a "Lock to Smart Controller" status test.
- A green LED and a high-pitched beep at the end of the test indicates the lock is connected to the Smart Controller.
- A red LED and a low-pitched beep at the end of the test indicates the lock is not connected to the Smart Controller.

2.   Wireless link test

- This test requires the Smart Controller to be put in ZigBee "Join" mode (by enabling "Join" on the kabaecodewireless website) Can be done at the moment to link a lok
- Entering # # # 1 on the lock keypad triggers a "Lock to Gateway" wireless link test.
- A green LED and a high-pitched beep at the end of the test indicates a good link quality (success).
- A red LED and a low-pitched beep at the end of the test indicates a bad link (fail).
- If the Wireless Link Test fails, improve the Smart Controller positioning (see 16.1) and re-execute the Wireless LinkTest.

3.   Smart controller reset to factory default

NOTE: You will need to get a new Activation Code from the Oracode Live web site to re-activate the lock (see page 08) after you perform a Reset to Factory Default of the Smart Controller.

- Use a paperclip or pencil to press the "Reset" button (on the back of the Smart Controller) Press and hold the button for 15 seconds, then wait a few minutes until you get the steady Blue Light pattern (to see this pattern the gateway must be connected to the network).

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Door
Hardware

Electronic
Access & Data

Mechanical
Key Systems

Lodging
Systems

Entrance
Systems

Safe
Locks

Service

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T: +1 514 340 9025 (international)
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Full service from 8:30 am to 7:00 pm
Eastern Time, Emergencies 24/7
Email: techsupport.lgs.ca@dormakaba.com
Lodging Support: dormakabalodgingsupport.com

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