Yale® Assure Lock® 2 Key Free Deadbolt Installation Guide
(Keypad YRD430 or Touchscreen YRD450)

This manual will walk you through all the required steps to install your new Yale Assure Lock 2 to your door.

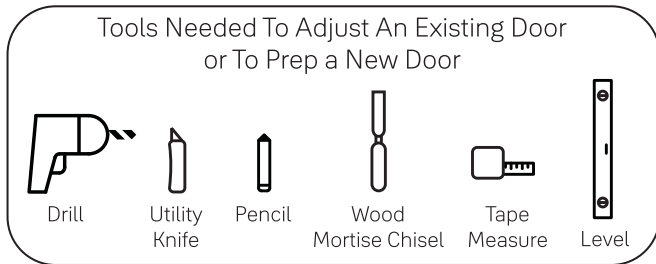Remove existing deadbolt and check door measurements with included template

Download the Yale Access App

Create an account

From the app menu, tap "Set up a Device"

Scan the QR code located in the battery compartment

Follow the installation steps in your Yale Access App, or this manual

Tools Needed

Standard Phillips Head Screwdriver

Tools Needed To Adjust An Existing Door or To Prep a New Door

Drill

Utility Knife

Pencil

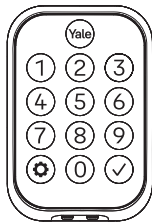Wood Mortise Chisel

Tape Measure

Level

Failure to follow these instructions could result in damage to the product, voiding the factory warranty and could lead to failure of the product to provide access.
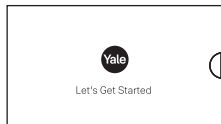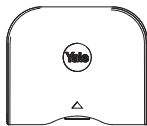
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In The Box

Hardware Components

Yale Smart Module (with select models)

Exterior Keypad

Guide

Reset Pin

Adjustable Deadbolt (AYRDB-DRIVE Adjustable Drive-In Deadbolt available for purchase)

Strike Plate

Battery Cover
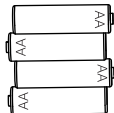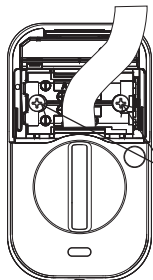
Interior Lock

x2 Screws and Washers (pre-installed)

Mounting Plate

BRACKET MAIN   FRONT WIRE HOLE

x4 Batteries

x4 Strike Plate and Deadbolt Screws

x2 Screw Set B Blue for 1-3/8" Door Thickness

x2 Screw Set C Black for Standard 1-3/4" Door Thickness

x2 Screw Set D Silver for 2 to 2-1/4" Door Thickness

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B
P/N YRD400-KF-0021 Rev A

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1 Remove Existing Deadbolt

💡 Keep your old deadbolt hardware until your new lock has been successfully installed.

Door

Frame

2 Check Door Measurements and Adjust If Needed
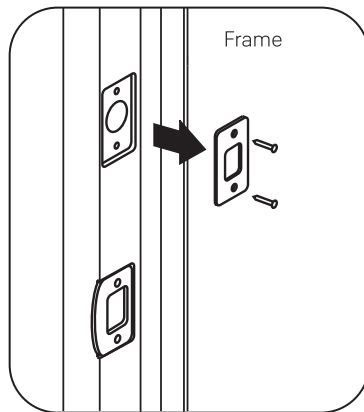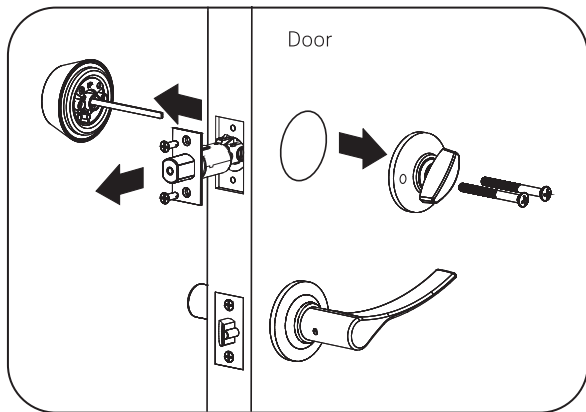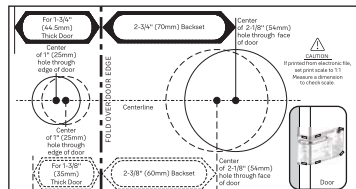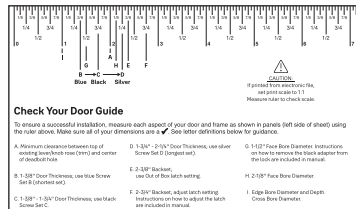
Check Door:

Tear off the Door Checker page of this guide and follow checker instructions to verify your door measurements and make any needed adjustments.

⚠ There are some cases where existing holes cannot be adjusted to be compatible.

Check Your Door Guide

To ensure a successful installation, measure each aspect of your door and frame as shown in panels (left side of sheet) using the ruler above. Make sure all of your dimensions are a ●. See letter definitions below for guidance.

A. Minimum clearance between top of existing lever/knob rose (trim) and center of deadbolt hole

B. 1-3/8" Door Thickness, use Vice Screw Set B (shortest set).

C. 1-3/8" - 1-3/4" Door Thickness, use black Screw Set C.

D. 1-3/4" - 2-5/8" Door Thickness, use silver Screw Set D (longest set).

E. 2-3/8" Backset, use Out of Box latch setting.

F. 2-3/4" Backset, adjust latch setting. Instructions on how to adjust the latch are included in manual.

G. 1-1/2" Face Bore Diameter. Instructions on how to remove the black adapter from the lock are included in manual.

H. 2-1/8" Face Bore Diameter.

I. Edge Bore Diameter and Depth Cross Bore Diameter

⚠ CAUTION: If printed from electronic file, set print scale to 1:1. Measure ruler to check scale.

Blue Black Silver

New Door:

Tear off the Template page of this guide and use either 2-1/8" or 1-1/2" template to prepare a new door that has no holes or to adjust existing holes to be compatible.

For 1-3/4" (44.4mm) Thick Door

2-3/4" (70mm) Backset

Center of 2-1/8" (54mm) hole through face of door

Center of 1" (25mm) hole through edge of door

Centerline

Center of 1" (25mm) hole through edge of door

For 1-3/8" (35mm) Thick Door

2-3/8" (60mm) Backset

Center of 2-1/8" (54mm) hole through face of door

FOLD OVER DOOR EDGE

Door

⚠ CAUTION: If printed from electronic file, set print scale to 1:1. Measure a dimension to check scale.

Check Your Door Using Ruler on Other Side

Measure Clearance

✔ Greater than A

✗ Less than A
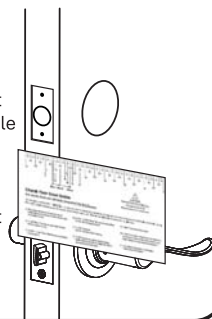(Your door is not a match for a Yale electronic lock)
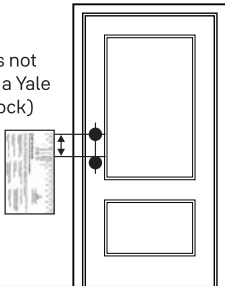
Measure Door Thickness

✔ B, C or D

✗ Less than B
(Your door is not a match for a Yale electronic lock)

✗ Greater than D
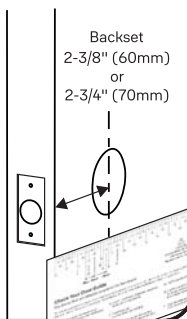(Your door is not a match for a Yale electronic lock)

Measure Backset

✔ Equals E or F

✗ Less than E or F
(Your door is not a match for a Yale electronic lock)

✗ Greater than E or F
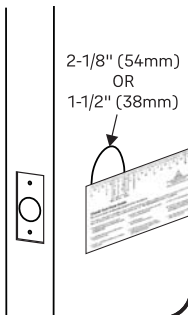(Your door is not a match for a Yale electronic lock)

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

Measure Face Bore

✔ Equals G or H

✗ Less than G
(Adjust diameter to G or H)

✗ Greater than H
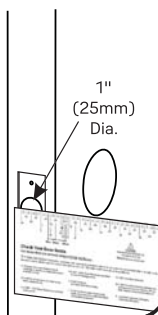(Your door is not a match for a Yale electronic lock)

2-1/8" (54mm)
OR
1-1/2" (38mm)

Measure Cross Bore

✔ Equals I

✗ Less than I
(Adjust diameter to 1")

✗ Greater than I
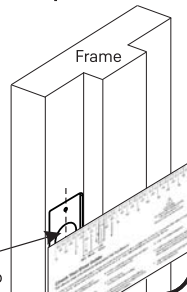(Your door is not a match for a Yale electronic lock)

1" (25mm) Dia.

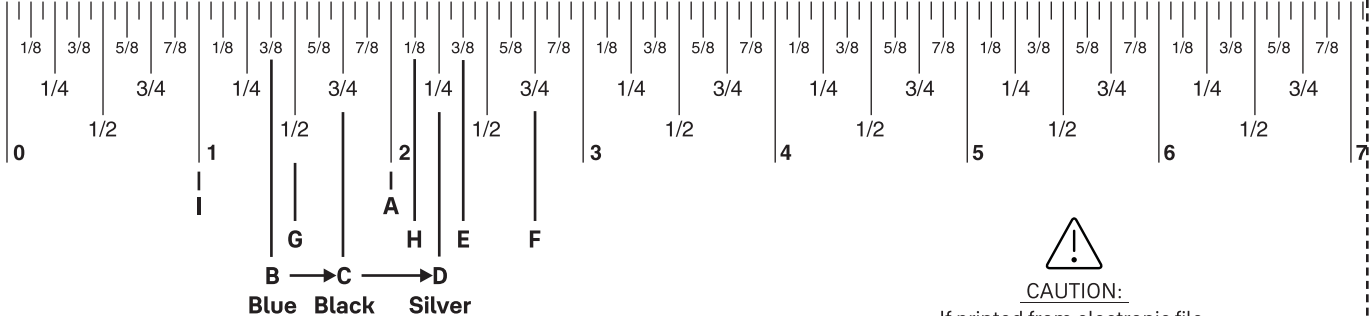## Measure Strike Pocket Diameter and Depth

✔ Equals I

✗ Less than I
(Adjust diameter and depth to 1")

✗ Greater than I
(Your door is not a match for a Yale electronic lock)

Frame

1" (25mm) Dia.
1" (25mm) Deep

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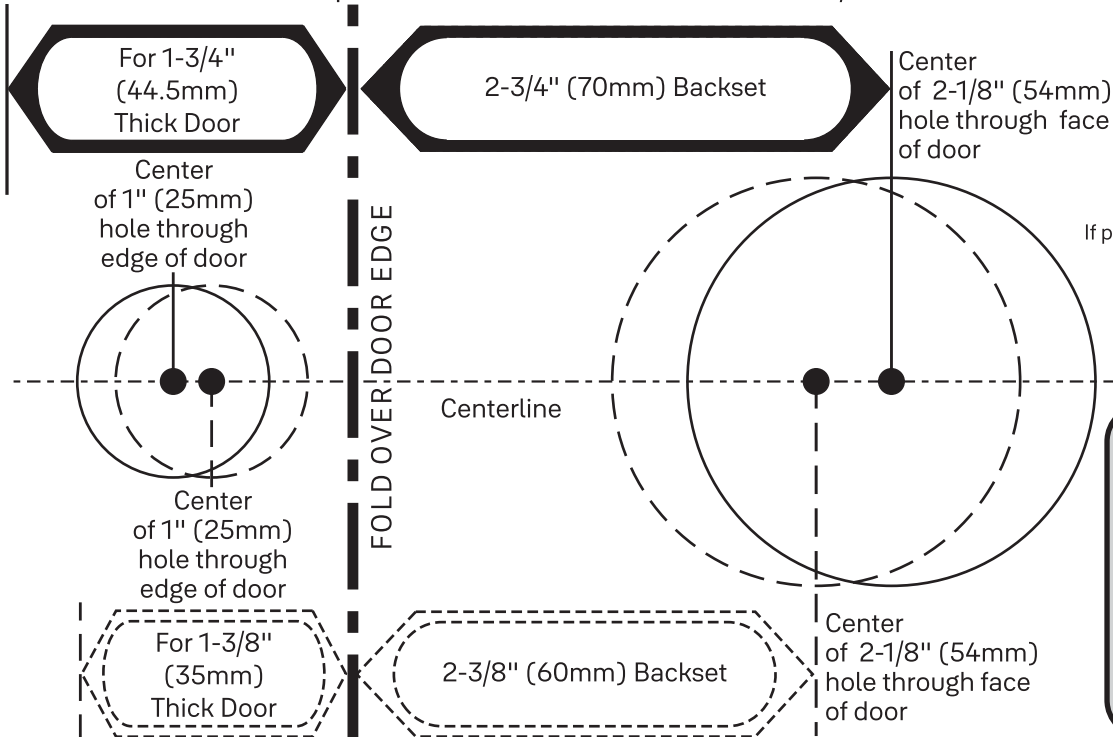| 1/8 | 3/8 | 5/8 | 7/8 | 1/8 | 3/8 | 5/8 | 7/8 | 1/8 | 3/8 | 5/8 | 7/8 | 1/8 | 3/8 | 5/8 | 7/8 | 1/8 | 3/8 | 5/8 | 7/8 | 1/8 | 3/8 | 5/8 | 7/8 | 1/8 | 3/8 | 5/8 | 7/8 |

⚠ CAUTION:
If printed from electronic file,
set print scale to 1:1
Measure ruler to check scale.

Check Your Door Guide

To ensure a successful installation, measure each aspect of your door and frame as shown in panels (left side of sheet) using the ruler above. Make sure all of your dimensions are a ✔. See letter definitions below for guidance.
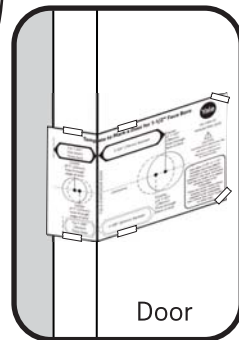
A. Minimum clearance between top of existing lever/knob rose (trim) and center of deadbolt hole.

B. 1-3/8" Door Thickness; use blue Screw Set B (shortest set).

C. 1-3/8" - 1-3/4" Door Thickness; use black Screw Set C.

D. 1-3/4" - 2-1/4" Door Thickness; use silver Screw Set D (longest set).

E. 2-3/8" Backset; use Out of Box latch setting.

F. 2-3/4" Backset; adjust latch setting. Instructions on how to adjust the latch are included in manual.

G. 1-1/2" Face Bore Diameter. Instructions on how to remove the black adapter from the lock are included in manual.

H. 2-1/8" Face Bore Diameter.

I. Edge Bore Diameter and Depth. Cross Bore Diameter.

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Template to Mark a Door for 2-1/8" Face Bore

For 1-3/4"
(44.5mm)
Thick Door

2-3/4" (70mm) Backset

Center
of 2-1/8" (54mm)
hole through face
of door

Center
of 1" (25mm)
hole through
edge of door

FOLD OVER DOOR EDGE

⚠ CAUTION:
If printed from electronic file,
set print scale to 1:1
Measure a dimension
to check scale.

Centerline

Center
of 1" (25mm)
hole through
edge of door

For 1-3/8"
(35mm)
Thick Door

2-3/8" (60mm) Backset

Center
of 2-1/8" (54mm)
hole through face
of door

Door

Template to Mark a Door for 1-1/2" Face Bore
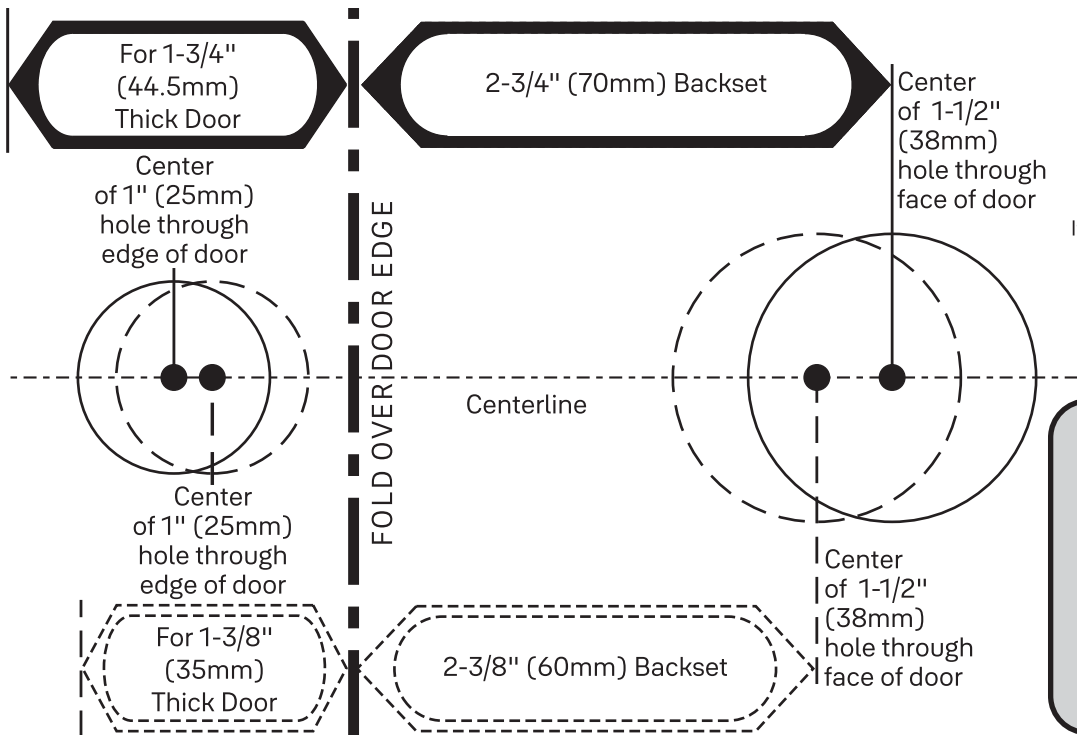
For 1-3/4" (44.5mm) Thick Door

2-3/4" (70mm) Backset

Center of 1-1/2" (38mm) hole through face of door

⚠ CAUTION:
If printed from electronic file, set print scale to 1:1
Measure a dimension to check scale.

Center of 1" (25mm) hole through edge of door

FOLD OVER DOOR EDGE

Centerline

Center of 1" (25mm) hole through edge of door

For 1-3/8" (35mm) Thick Door

2-3/8" (60mm) Backset

Center of 1-1/2" (38mm) hole through face of door

Door

3 Install Deadbolt and Strike Plate

*Correct deadbolt length is based on backset. Choose 2-3/8" or 2-3/4".
Door Checker measurements E and F can help you verify your backset measurement.

x2
For Deadbolt
Actual Size

x2
For Strike Plate
Actual Size

2-3/8"Backset, Out of Box

2-⅜

To Adjust:
Twist neck while holding body stable

2-3/4" Backset, optional

2-¾ 2-⅜

⚠ Deadbolt must be in unlocked position. UP arrow must face upwards.

*Backset

Align strike to deadbolt

Frame **Door**

If deadbolt is extended, use your fingers or a small flathead screwdriver to rotate slot until deadbolt is retracted.
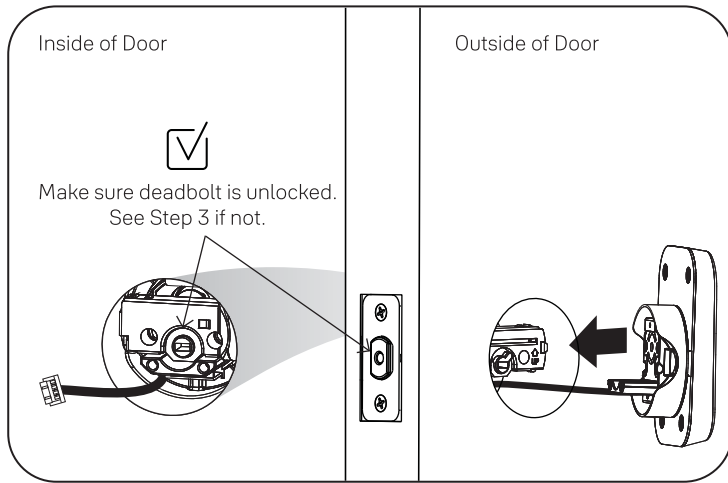
4 Install Exterior Keypad

⚠️

Measurement G on the Door Checker will
help you verify your face bore measurement.
If hole is less than 2-1/8", remove adapter by
squeezing black plastic clips on either side
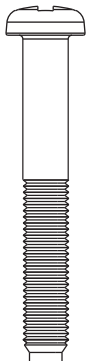and pulling adapter off of keypad.
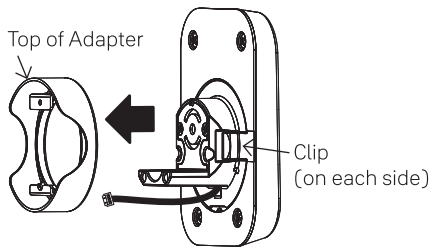
You should install the lock with the door open.
Do not close door until all steps are completed successfully.

Top of Adapter

Clip
(on each side)

Inside of Door

Outside of Door

☑

Make sure deadbolt is unlocked.
See Step 3 if not.
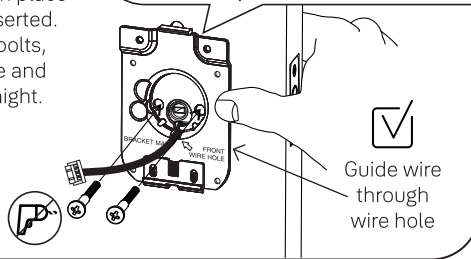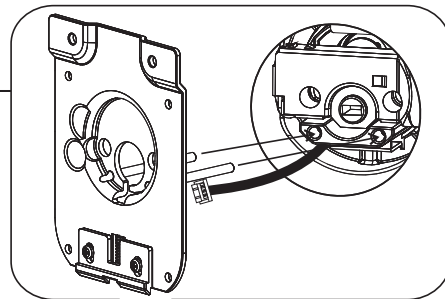
5 Install Mounting Plate

IMPORTANT: There are 3 bolt sets with your lock. Choose the bolt length for your door thickness. Measurement B, C or D on the Door Checker will help you identify which bolts to use.

x2

Actual Size

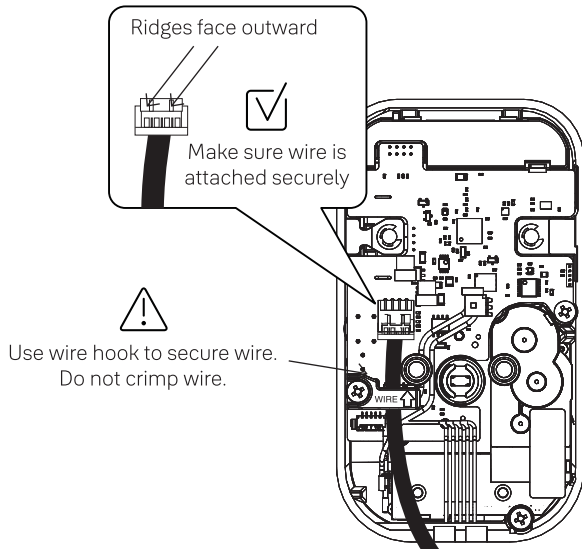Bolt Set C, Black for a **Standard** 1-3/4" Door Thickness

Inside of Door

⚠️

Hold the keypad in place until bolts are inserted. As you tighten bolts, make sure plate and keypad are straight.

Guide wire through wire hole

6 Attach Wire to Inside of Interior Lock

Ridges face outward

Make sure wire is attached securely

⚠️
Use wire hook to secure wire.
Do not crimp wire.

WIRE

7 Install Interior Lock

Thumbturn must be vertical so that tailpiece can slide into the slot of the unlocked deadbolt.

Tailpiece

Deadbolt Slot

Insert tailpiece into slot.

Push lock to door then adjust position until the mounting plate spring latch clicks into place and holds the bottom of the lock.

Hook   Spring Latch
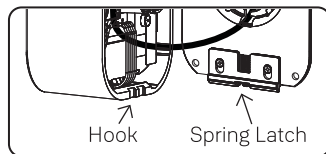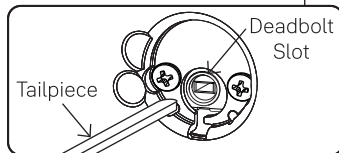
Screws are pre-installed. Tighten when lock is seated on mounting plate. When fully tightened, lock should be flush to door.
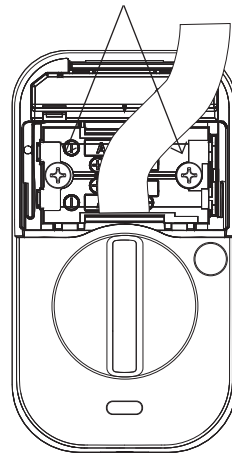
Test Thumbturn

⚠️
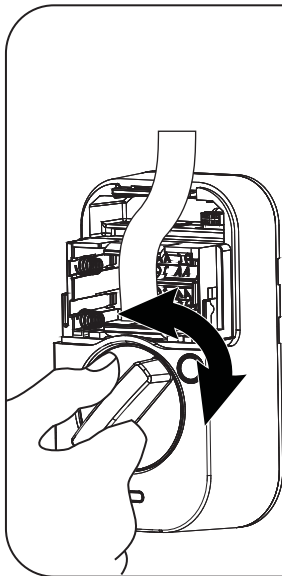
If deadbolt does not lock and unlock when you turn the thumbturn:

Check that deadbolt is centered in face bore hole. Step 3

Check that tailpiece is inserted into deadbolt slot. Step 7
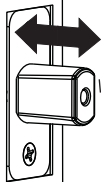
💡 Smooth deadbolt operation will enhance your battery life.

O
optional

Install Yale Smart Module
Included with select models

⚠️

Batteries must not be installed
when inserting or removing
Yale Smart Module.
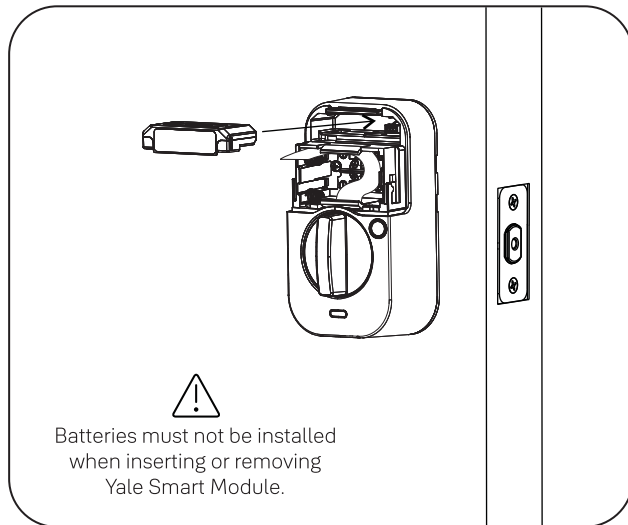
💡 For more information about Yale Smart Modules and smart home features
visit: US.YaleHome.com/Smart
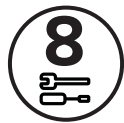
8 Install Batteries and Replace Cover

Place ribbon behind batteries for easy battery removal.

⚠️ Deadbolt must be unlocked before installing batteries.

2nd

1st

Pink Light and Audio Sounds

☑ Successful Power up
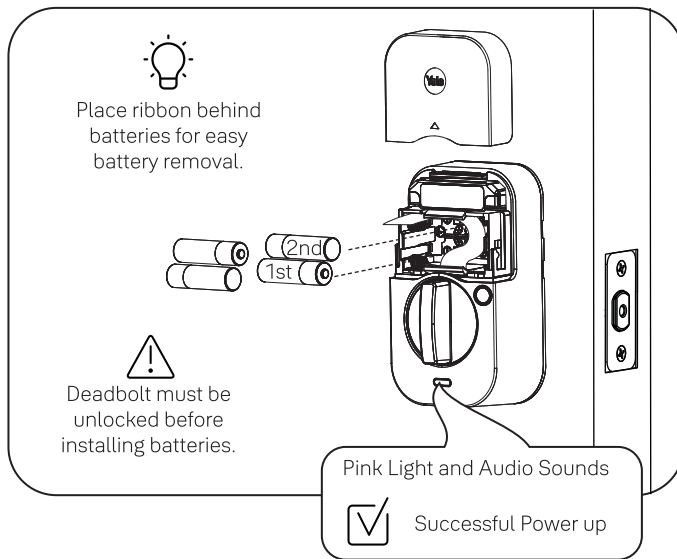
Congratulations, you've installed the Yale Assure Lock® 2 Key Free Deadbolt!

Using Your Lock

Exterior Keypad

Press the Yale logo to wake or lock door

1 2 3
4 5 6
7 8 9
⚙ 0 ✓

Lock Warnings

Press to lock door

Battery Backup
Hold 9V to terminals when lock batteries are dead

Interior Lock

Battery Cover

Thumbturn for manual locking and unlocking

Inside Indicator Light

Passage Button

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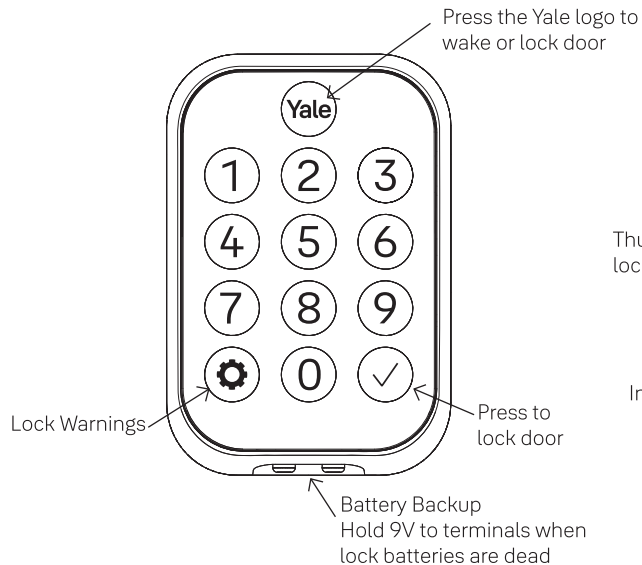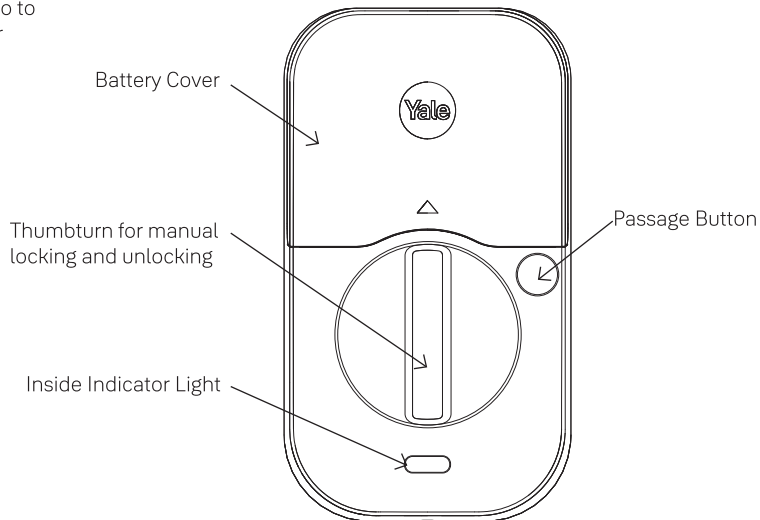
Unlocking Door

Press the Yale logo to wake lock	Enter entry code	Press ✓

Setting Definitions

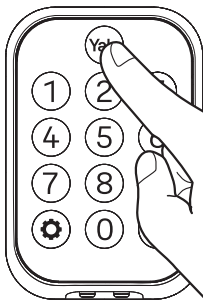| Setting	Default	Definition
Codes		
Programming Code	Automatically created by the Yale Access App	This code is used to access programming features: Handing, Smart Module integration, and Diagnostics. This code cannot be used to unlock the door. To enter programming mode, find your programming code in the Yale Access App, enter in the keypad and press the gear symbol.
Entry Codes		Entry codes can be created for users to allow them to lock/unlock the door from the lock keypad.
Security Settings		
Hide Entry Codes	Off	If turned on, all entry codes within the app will be hidden from view.
Verified Access	Off	If turned on, biometric/passcode authentication is required from the app to operate the lock.
Notifications		
Smart Alerts	Off	Create alerts you wish to receive from the app.
Automation		
Auto-Lock	Off	Door will automatically lock. When paired with DoorSense, the door will not lock until the door is completely closed or choose to auto-lock based on a timer, between 10 seconds and 30 minutes.
Auto-Unlock	Off	Door will automatically lock unlock when you arrive home.
DoorSense	Must be installed	Allows you to know when your door is opened and closed.

Setting Definitions

Setting	Default	Definition
Advanced Device Settings		
Volume	On	This feature can be changed in the Yale Access App. You can turn the lock volume on or off.
Operating Mode: Normal	On	When the lock is in normal operating mode all entry codes will work and the lock can be unlocked/locked from the app and voice assistants.
Operating Mode: Vacation	Off	This feature can be enabled in the Yale Access App. When enabled all entry code access will be restricted. Users can still lock and unlock the door with the app.
Inside Indicator Light	Off	This feature can be enabled in the Yale access App. When turned on, it will show the active status (locked) of the lock. This light will also inform you when the batteries are low, passage mode is enabled, and successful pairing.
Keypad Security: Shutdown Timing	60 seconds	The lock will shutdown (flashing RED) for sixty (60) seconds and not allow operation after the wrong code entry limit (5 attempts) has been made. This timing can be changed between 10 seconds to 3 minutes in the app.
Keypad Security: Wrong Code Limit	5 times	After five (5) unsuccessful attempts at entering a valid entry code, the lock will shut down and not allow operation for sixty (60) seconds. This timing can be changed from the app from 3 to 10.
One Touch Locking	On	Lock the keypad with the touch of a button.
Passage Button	Off	The passage button can be used to temporarily turn off auto-lock, so you can easily come and go without needing to unlock your door each time. To turn on passage mode, press the passage button on the inside of the lock. To turn off passage button, simply lock your door.

Troubleshooting

Symptom	Suggested Action
Lock does not respond - door is open and accessible.	• Keypad becomes active when the Yale logo is pressed. • Verify contact with the logo. • If keypad numbers are visible, check they respond when pressed. • Check batteries are installed and oriented correctly (polarity) in battery case. Replace batteries* if batteries are dead. • Check keypad cable is fully connected and not pinched.
Lock does not respond - door is locked and inaccessible.	• Batteries may not have enough power. Replace batteries*. • Apply a 9V battery to terminals below the keypad for backup power option.
Lock is on for a while then shows no reaction. Lights dim.	• Batteries do not have enough power. Replace batteries*.
Lock chimes indicating code acceptance, but door will not open.	• Check for any foreign objects between door and frame. • Check that the cable is firmly connected to inside lock.
Lock operates to allow access, but will not automatically unlock.	• Check to see if Auto-Lock is enabled. • Disable Auto-Lock to lock the door (manually).
Lock responds "Low Battery".	• This is the alert to replace the batteries. Replace all four (4) batteries* with new AA Alkaline batteries.

*When batteries are replaced, Smart Module locks have a real time clock that will be set through the User Interface.
It is recommended to verify correct date and time; particularly those locks operating under Daylight Savings Time.

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Part of ASSA ABLOY

Troubleshooting

Symptom	Suggested Action
Entry code will not register.	• If low battery indicator is lit, change batteries*. • Entry code must consist of 4 to 8 digits. • The same entry code cannot be used for multiple users. • Entry code must be entered within 5 seconds (while keypad is active) or process will have to be restarted.
Upon entering an entry code and pressing the check key, the lock displays "invalid code" error or lock times out without responding.	• Verify entered code is a valid, previously programmed, 4 to 8 digit code. • Vacation mode is on. Only an admin user can change vacation mode. Contact the admin.
Upon entering an entry code and pressing the check key, lock responds "Wrong number of digits".	• The digits entered were incorrect or incomplete. Re-enter the correct code followed by the check key.
Deadbolt does not extend when locking the door with keypad.	• Lock was not handed properly. Rehand lock through Settings Menu.
Lock operates, but makes no sound.	• Check in the Yale Access App to see if Volume is set to off.

*When batteries are replaced, Smart Module locks have a real time clock that will be set through the User Interface.
It is recommended to verify correct date and time; particularly those locks operating under Daylight Savings Time.

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Hardware Troubleshooting

Symptom	Solution
Deadbolt grinds and will not extend to lock when using an entry code but thumbturn locks and unlocks smoothly.	Attempt re-handing using the Settings Menu. You must use Programming Code to access the Settings Menu.
Deadbolt is hitting the strike plate.	Reposition the strike plate to align with deadbolt.
Deadbolt is not fully extending.	Increase depth of the deadbolt strike pocket in frame.
Resistance when locking deadbolt that requires pushing or pulling on the door to align deadbolt and latch.	Adjust your existing knob, lever or handleset strike plate. Latch engagement into the strike is the main component used for door alignment. To adjust Knob/Lever/Handleset strike plate: 1. Remove plate from door frame with a hand screwdriver. (Using an electric driver may strip screw heads or enlarge screw holes.) 2. Locate tab on strike plate. Bend the tab towards surface of strike. Note: A small change may be all that is required. 3. Reinstall strike plate using a screwdriver and test again. 4. If door cannot be adjusted sufficiently with strike tab, both knob/lever/handleset latch and deadbolt could require adjustment – we suggest you contact a local locksmith for assistance. For help with misalignments, watch our door alignment video: US.YaleHome.com/Support
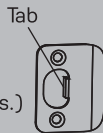
Resetting Lock to Factory Defaults
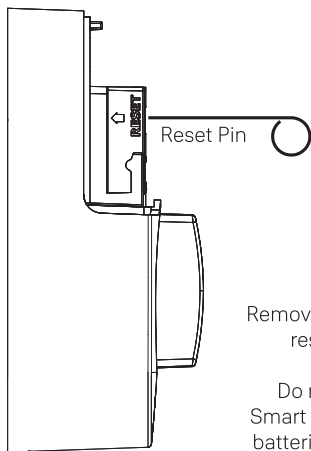
Reset Pin

⚠️

Remove 1 battery to reset lock.

Do not install Smart Module with batteries installed.

Interior Lock

When lock is reset to factory defaults, all entry codes (including the programming code*) are deleted and all programming features are reset to original default settings.

To Reset Lock:

Remove battery cover and one battery.
Remove Yale Smart Module if installed.
Press reset button with reset tool provided in the hardware box.
While pressing reset button a minimum of 3 seconds, reinstall Yale Smart Module then the battery.
Replace cover.

*After reset, lock must be set up with Yale Access App

Keypad Alerts

| Keypad	Meaning
Gear flashes Amber	Low Battery Level 1
Gear flashes Amber	Low Battery Level 2
Gear flashes Red then stays red until batteries are replaced	Low Battery Level 3
Checkmark flashes	Pairing Success
X then gear flashes Red	Jammed Lock
Gear flashes White	Pairing/successful pairing
Gear flashes Red during pairing	Failed Pair

Interior Lock Light Alerts
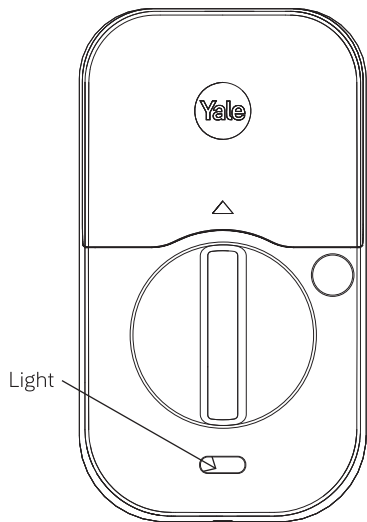
Inside Lock Light	Meaning
Blue flashing	Low Battery Level 1
Blue flashing	Low Battery Level 2
Blue flashing	Low Battery Level 3
Orange flashing	Alarm System armed Home
Green flashing	Alarm System disarmed Home
Red flashing	Alarm System armed Away
Green flashing	Alarm System disarmed Away
Pink flashing	Passage Mode enabled
Red flash, flash, 3 second pause, repeat	Locked state
Green flash, flash 3 second pause, repeat	Unlocked state
Green 3 second solid	Pairing Success
Red 3 second solid	Pairing Fail

Light

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Trusted every day

Warning: Changes or modifications to this device, not expressly approved by **Yale Home** could void the user's authority to operate the equipment.

Manufacturer : iRevo-ASSA ABLOY Korea
Model : YRD430/450
DC 6V, Max 2A

IMPORTANT NOTE

While Yale® has included several features to prevent lockout (9-Volt battery failsafe, low battery warnings), it is still possible for a lockout situation to occur. Because this product does not have a physical key, Yale® recommends to use this product in an environment where there are additional entry points into the dwelling.

Yale Home

24/7 Support: 1-855-213-5841 • US.YaleHome.com

C
P/N YRD400-KF-0021 Rev A

Trusted every day

Part of ASSA ABLOY

FCC

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.

Any changes or modifications (including the antennas) to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment.

Note: 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.

Modifications not expressly approved by the manufacturer could void your authority to operate the equipment under FCC rules.

ISED

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) L'appareil ne doit pas produire de brouillage;

(2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

RF Exposure Statement

FCC and IC RF Radiation Exposure Statement: This equipment complies with FCC and IC RF radiation exposure limits set forth for uncontrolled environments. This equipment should be installed and operated with a minimum distance of 20cm （may be adjusted according to actual calculation result） between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

RF du FCC et IC d'exposition aux radiations: Cet appareil est conforme aux limites d'exposition au rayonnement RF stipulées par la FCC et IC pour une utilisation dans un environnement non contrôlé. Les antennes utilisées pour cet émetteur doivent être installées et doivent fonctionner à au moins 20 cm de distance des utilisateurs et ne doivent pas être placées près d'autres antennes ou émetteurs ou fonctionner avec ceux-ci. Lesinstallateurs doivent s'assurer qu'une distance de 20 cm sépare l'appareil (à l'exception du combiné) des utilisateurs