

Yale Assure Lock 2 Smart Lock Installation Guide

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Yale Assure Lock 2 Smart Lock





Specifications

• Product Name: Assure Lock 2 Keyed YRD410 / YRD420

• App Compatibility: Yale Access App

• Power Source: AA Batteries

• Optional Components: Smart Module, DoorSense

Download Yale Access App Create an account if you don't already have one, and tap "Set Up a Device".

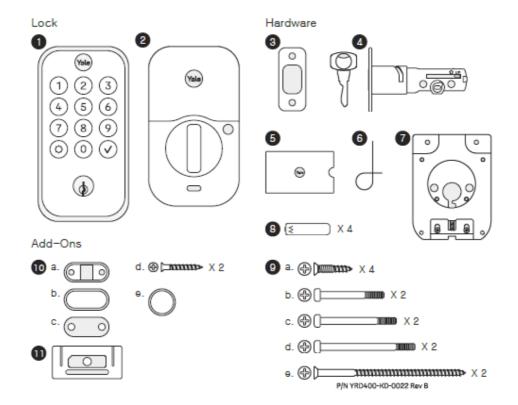
Note:

• If you have an account with the August App, use the same username and password for the Yale Access App.

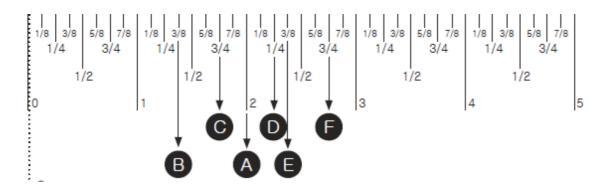
Install Your Lock

Follow the step-by-step Installation Guide in this manual (pages 9-23), or refer to the app for installation instructions with helpful videos. Note: If you use the app, please tear off the Door Checker and the Marking Template (pages 5-8) to use when prompted. Set Up and Use Your Lock Create permanent entry codes, issue entry codes for guests, operate your lock with your phone and more (pages 24-35).

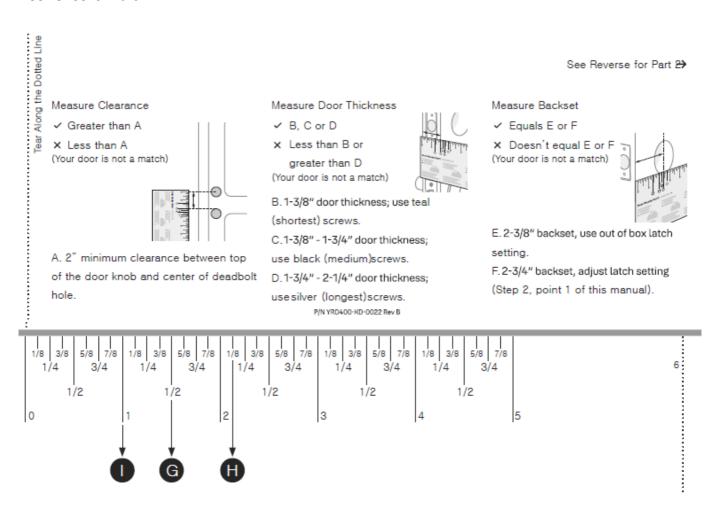
In the Box



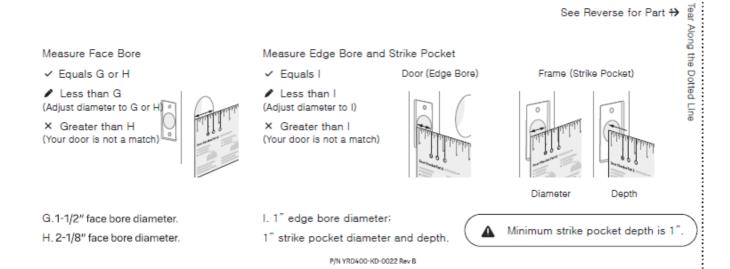
- 1. Exterior Keypad
- 2. Interior Lock
- 3. Strike Plate
- 4. Adjustable Deadbolt & Key
- 5. Manual
- 6. Reset Pin
- 7. Mounting Plate
- 8. AA Batteries
- 9. Screws
 - · Strike Plate and Deadbolt Screws
 - Teal Screw Set B
 - Black Screw Set C
 - · Silver Screw Set D
 - Optional Security Strike Plate Screws
- 10. DoorSense
 - Housing
 - Cover
 - Mounting Tape
 - Screws
 - Flush Mount Cap
- 11. Smart Module (Included with select models)



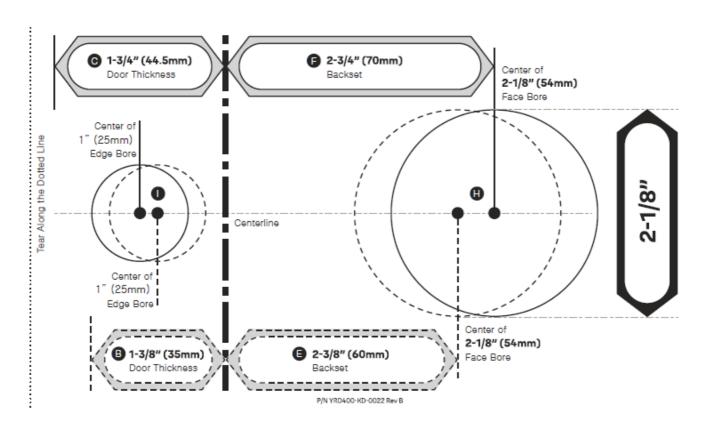
Door Checker Part 1



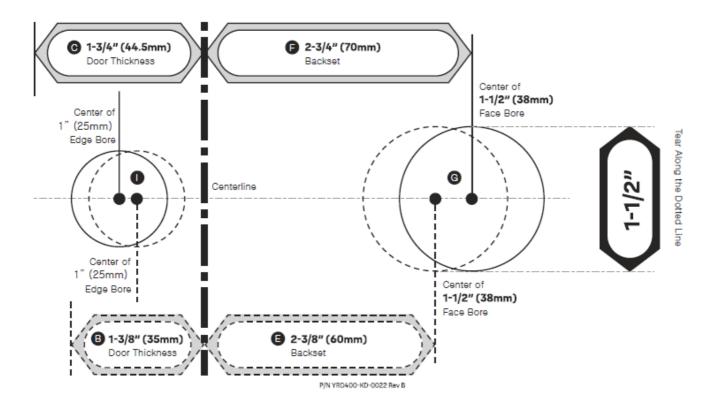
Door Checker Part 2



Marking Template for 2-1/8" (54mm) Face Bore

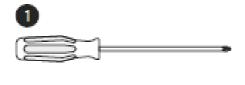


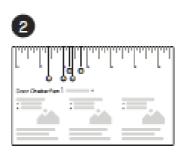
Marking Template for 1-1/2" (38mm) Face Bore



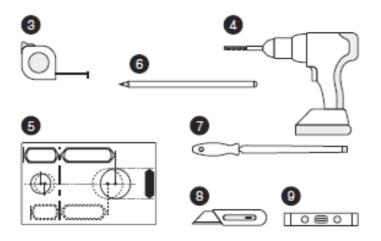
Installation Guide

Required Tools





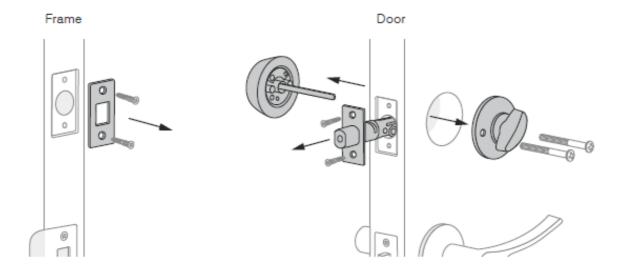
You Might Also Need



- 1. Phillips Head Screwdriver
- 2. Door Checker
- 3. Tape Measure
- 4. Drill
- 5. Marking Template
- 6. Pencil
- 7. Wood Mortise Chisel
- 8. Utility Knife
- 9. Level
- Failure to follow the Installation Guide precisely could result in damage to the product, voiding the factory warranty, and could lead to failure of the product to provide access.

Remove Existing Deadbolt

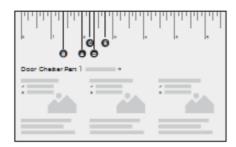
- If you have a new door, please proceed to step 1b.
- If you have a deadbolt on your door, use the diagram to help you remove it.

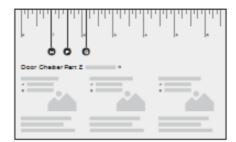


• Keep your old deadbolt until your new lock has been successfully installed.

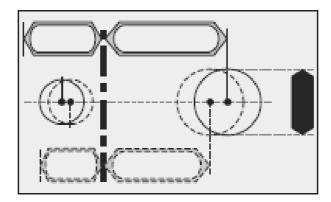
Check Door Measurements

- If your door doesn't have holes, please proceed to step 1c.
- Tear off the Door Checker both sides to measure each aspect of your door and frame. There are some cases when existing holes cannot be adjusted to be compatible.





 If you need to make adjustments, go to step 1c and find the closest match to each aspect of your door on the Marking Template.

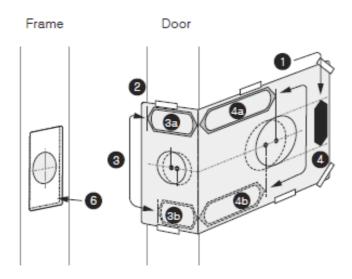


- Please do not drill any holes until you confirm that your door is compatible.
- If you have confirmed that the existing holes are compatible with your new lock, please proceed to step 2 (skip step 1c).

Make or Adjust Holes

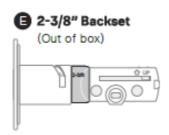
- Skip this step if you have confirmed that the existing holes are compatible (step 1b).
- 1. Tear off the/larking Template (pages 7-8), and choose the preferred face bore diameteR 1/8" or 1-1/2") on either side of the template.
- 2. Tape the Marking Template onto the door as shown.
- 3. Check the door thickness. It should match either the shape with solid outlines (1-3/4"), or the one witldashed outlines (1-3/8").
 - Usesolid lines as a template far3/4" door thickness.
 - Use dashed lines fort-3/8" door thickness.
- 4. Choose your preferred backset. It should match either the shape withsolid outlines 2-3/4"), or the one wit/dashed outlines (2-3/8").
 - Use solid lines as a template f2-3/4" backset.

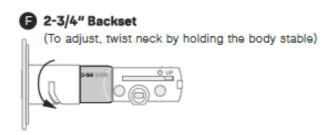
- Use dashed lines for 2-3/8" backset.
- 5. Drill holes in your door where marked.
- 6. On the door frame, align the center of the strike plate with the center of the edge bore. Trace the strike plate, then chisel to the depth of the strike plate so it sits flush with your door frame. Drill the 1" diameter strike pocket with a minimum depth of 1".



Install Deadbolt Latch

 Correct deadbolt length is based on the backset. Refer to measurements E and F on the Door Checker (page 5) to verify backset.





Minimum strike pocket depth is 1".



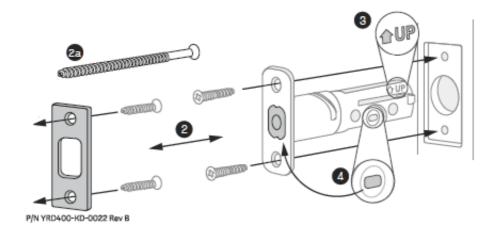
x 2 for Deadbolt Latch x 2 for Strike Plate (Actual size)

- Align strike plate with deadbolt latch.
- (Optional) Security screws can be used in place of the small strike plate screws.

- Make sure UP arrow on the deadbolt is facing upwards.
- Deadbolt latch must be in an unlocked position.

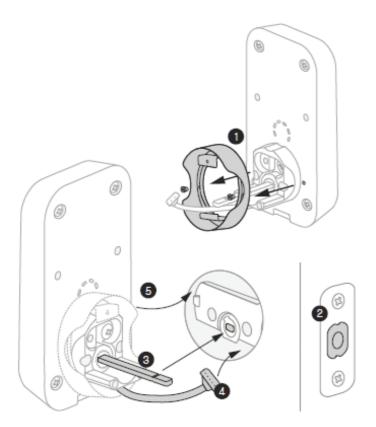
Note:

• If the deadbolt latch is extended, use a small flathead screwdriver to rotate slot until deadbolt latch is retracted.



Install Exterior Keypad

- Refer to measurements and H on the Door Checker (page 6) to measure face bore hole. If the hole It-1/2" (G), unscrew the two small screws and remove the adapter.
- Install your lock with the door open. Do not close your door until all the steps are completed.
- Make sure your deadbolt latch is in an unlocked position. Refer to step 2, point 4(page 13) for guidance on how to retract it, if needed.
- Slide the tailpiece through the deadbolt latch slot, making sure the keypad is on the exterior part of your door.
- Guide the wire cable under the deadbolt.
- Slide the keypad in place. Hold or secure in place until the mounting plate is installed in the next step



Install Mounting Plate

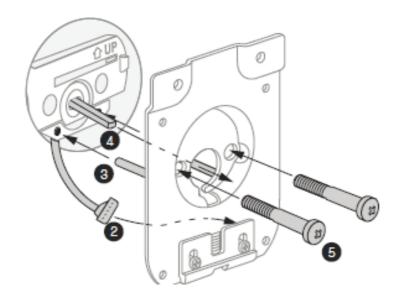
1. Refer to measurements B, C, and D on the Door Checker (page 5) to select screws.

2.



Route the wire cable into the designated slot in the mounting plate.

- 3. Guide posts of the mounting plate into the holes on the exterior keypad.
- 4. Slide tailpiece through the designated slot in the mounting plate.
- 5. Tighten screws with a screwdriver to secure the mounting plate. As you tighten the screws, make sure the mounting plate and the keypad are straight.

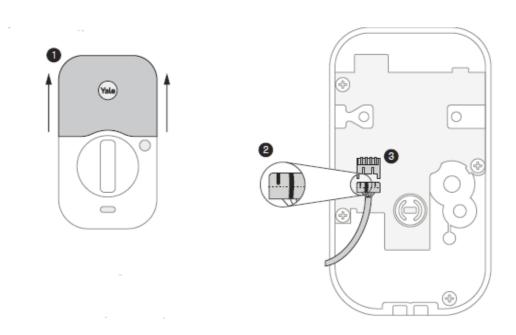


• Ensure that the wire cable is not pinched to prevent it from reducing your lock's battery life.

Attach Wire Cable to Interior Lock

1. Remove battery cover by pulling it upwards off the body of the interior lock.

2.

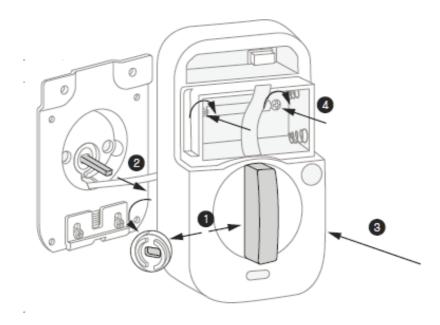


Make sure the side of the cable end with the ridges and the marked line faces outward.

3. Push cable into the designated slot until you hear a click.

Install Interior Lock

- 1. Make sure the tailpiece slot is in horizontal position. Use the thumbturn to adjust if needed.
- 2. Slide the tailpiece through the designated slot on the back of the thumbturn.
- 3. Press the lock against the mounting plate, adjusting its position until it clicks into place and the bottom of the lock is held in place.
- 4. Tighten the two pre-installed screws.



• When fully tightened, lock should be flush to door.

Test Thumbturn and Key

- If deadbolt latch does not lock or unlock with the key (from the outside) or the thumbturn (from the inside):
- Ensure that the deadbolt latch is centered in the face bore hole;
- Ensure that the tailpiece is positioned horizontally and inserted through deadbolt latch slot (step 3, point 3) into the thumbturn slot (step 6, point 2).



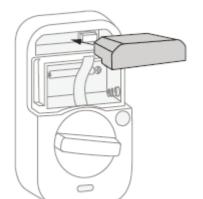
• Smooth deadbolt latch operation will enhance your battery life.

Install Yale Smart Module (Optional)

- If your lock model does not include a Smart Module, please proceed to step 9a.
- Insert Yale Smart Module into the designated slot at the top of the body of the lock.

Note:

• If you purchased your module separately, check compatibility with your Assure 2 Lock. See table below for the list of compatible modules.



AYR-MOD-ZWV-USA Z-Wave 500 series Module

AYR-MOD-WF1-USA Wi-Fi Module

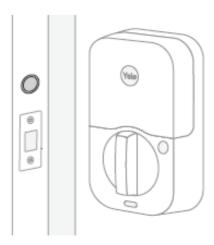
• Batteries must not be installed when inserting or removing Yale Smart Module.

Install DoorSense (Optional)

- If you do not wish to install DoorSense, please proceed to step 10.
- DoorSense is a magnetic sensor installed on your door frame that can keep track of when the door is opened and closed.
- For surface mount instructions, please proceed to step 9b.



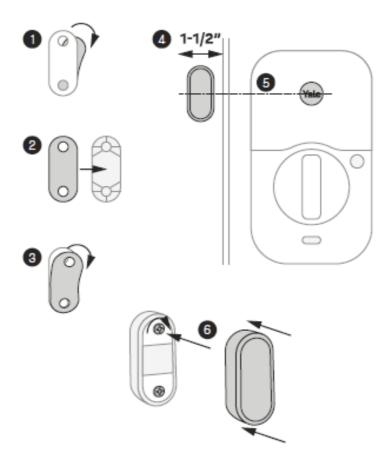
- Surface mount is a quick and easy option to secure DoorSense next to your lock. For this method the door must be flush with the frame.
- For flush mount instructions, please proceed to step 9c.



• Flush mount is installing DoorSense into the edge of the door frame. It provides a cleaner look with more robust performance but requires drilling.

DoorSense Surface Mount

- 1. Remove one side of the backing from the adhesive.
- 2. Attach tape to the back of the DoorSense, ensuring it is aligned with the edges of the device and the screw holes.
- 3. Remove the remaining backing from the adhesive.
- 4. Determine mounting location. For optimal performance, DoorSense should be mounted within 1-1/2" from the edge of your door frame.
- 5. Ensure DoorSense is in proper position by center aligning it with the Yale logo on the battery cover, and adhere it to the door frame.
- 6. Tighten pre-installed screws and attach cover.



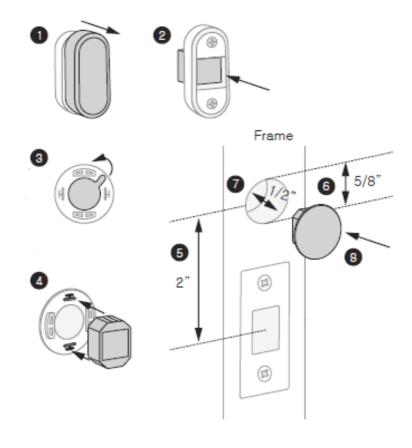
• It is recommended to complete the last step after your lock is calibrated with the app to ensure you are able to retrieve accurate door state readings before modifying your frame.

DoorSense Flush Mount

- 1. Take off DoorSense cover.
- 2. Push the magnet out of the housing.
- 3. Expose the adhesive on the magnet cap by removing the blue backing.
- 4. Press the magnet onto the cap so that the notches interlock.
- 5. Determine mounting location on the door frame. The distance from the center of the strike plate to the center of the DoorSense should be 2", making it in line with the logo on the battery cover of the lock.
- 6. Mark a hole that's horizontally centered on the door frame and is 5/8" in diameter. 4
- 7. Drill a 1/2" deep hole where marked.
- 8. Insert DoorSense into the hole.

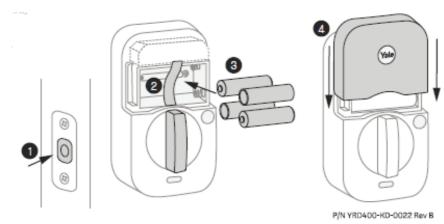
Note:

• If it is too snug to push in by hand, protect the frame with a piece of scrap wood and use light blows with a hammer or mallet.



Install Batteries and Replace Cover

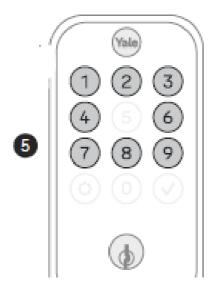
- Make sure you have Yale Access App downloaded and an account created. Once batteries are inserted, lock is ready to be set up with the app.
- 1. Before installing batteries, make sure the deadbolt latch is unlocked.
- 2. Place ribbon behind batteries for easy battery removal.
- 3. Install 4 batteries.
- 4. Replace cover.
- 5.



Once batteries are inserted, the entire keypad will light up in a clockwise pattern. Once this happens, the lock is in pairing mode. Open Yale Access App, tap on "Set Up a Device", and follow the in-app setup instructions.

Note:

• If the lock exits pairing mode, simply press the Yale logo to restart.

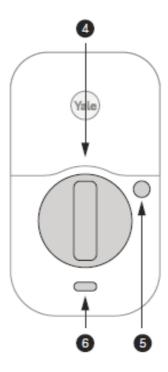


Using Your Lock

Exterior Keypad



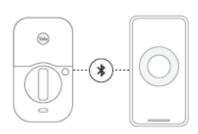
Interior Lock

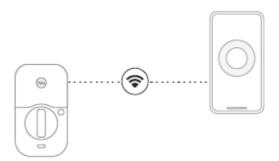


- 1. Wake / One-Touch Locking
- 2. Warnings / Menu
- 3. Submit Entry Code
- 4. Thumbturn
- 5. Passage Button
- 6. Interior LED Indicator

Connecting to Your Lock

- There are two possible ways to connect to your lock with your Yale Access app. When you're near your lock you can connect through Bluetooth, and if you have an optional module you can connect remotely through Wi-Fi.
- With Bluetooth connection, you can use your app to lock, unlock, create or manage entry codes, change settings, see who used the lock, etc. while you're within Bluetooth range of the lock. Every Assure Lock 2 has Bluetooth built in.
- With Wi-Fi connection, you can be away from home and use your app to operate your lock, monitor who's coming and going, and create or manage entry codes. To connect your lock to your Wi-Fi network, you will need a module (available with select models and sold separately). See step 8 for compatible modules.





- You must have Bluetooth or Wi-Fi connection with the lock to create or manage entry codes.
- Your changes will be pending until you do have connection with the lock.
- You can create and manage entry codes from the Guest List tab of the Yale Access app.
- 1. To create a code for a new user, tap on "Invite", then select whether they should also have app access or only entry code access. While inviting them, you will be able to create an entry code.
- 2. Tap on existing users in Guest List to create new entry codes for them or manage existing ones.

Set Up HomeKit (Optional)

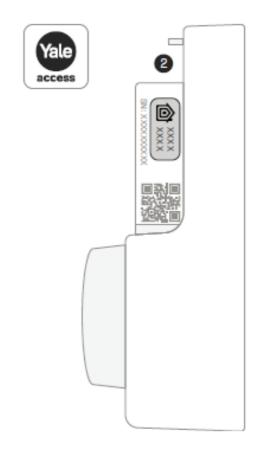
- Apple HomeKit is an iOS feature and is not available for Android.
- Enabling HomeKit integration allows you to connect your lock and contol it from your iPhone with the Apple Home app.
- 1. To enable HomeKit make sure your lock is installed and set up with Yale Access app. In the Yale Access app lock settings select "HomeKit" to begin HomeKit setup.
- 2. During setup, you will need access to the HomeKit code located on the side of the lock under the battery cover.

Note:

- 1. if you have HomePod®, HomePod Mini®, or Apple TV® set up as a home hub, to ensure successful HomeKit setup, make sure they are online and connected.
- 2. Follow instructions in the Yale Access app to set up HomeKit.

Note:

• Controlling this HomeKit-enabled accessory automatically and away from home requires a HomePod®, HomePod mini®, or Apple TV® set up as a home hub.



LED Alerts

Exterior Keypad Alerts		
Gear flashes amber Low battery level 1		
Gear flashes red	Low battery level 2	
Gear flashes red, then stays red Low battery level 3		
Checkmark flashes	Pairing success	
Any key, then gear flash red Jammed lock		
Gear flashes white	Pairing	
Gear flashes red during pairing Pairing failure		

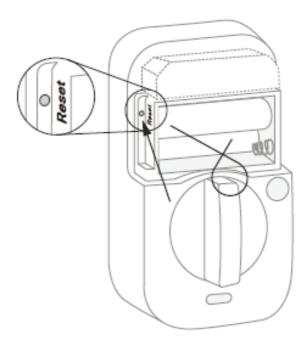


Interior Lock Alerts		
LED indicator flashes blue	Low battery levels 1, 2, and 3	
LED indicator flashes red	Locked state	
LED indicator flashes green	Unlocked state	
LED indicator turns green for 3 seconds	Pairing success	
LED indicator turns red for 3 seconds	Pairing failure	
LED indicator intermittently flashes yellow	Passage Mode is on (see page 30)	



- Resetting Your Lock to Factory Defaults
- If you have set up your lock with Yale Access App, you should reset it using the app. Go to your lock's settings and choose "Factory Reset".
- 1. Remove one battery.
- 2. Insert reset pin into the designated reset hole.
- 3. Press and hold the reset pin.

- 4. While holding the reset pin, reinsert battery.
- 5. Keep holding the reset pin for 5 more seconds.
- 6. Take out the reset pin.



Features

DoorSense

- · DoorSense keeps track of when your door is closed or open.
- · Entry codes are used to unlock your door.
- · Create entry codes from the "Guest List" tab in the Yale Access App.

Entry Codes

- · You can set permanent, recurring, and temporary entry codes.
- · An unlimited number of entry codes can be created or deleted as long as you have Bluetooth or Wi-Fi connection to th

Auto-Lock

- · Auto-Lock automatically locks the door for you.
- · It can be set to lock on a timer for as short as 30 seconds, or as long as 30 minutes.
- · When using the Auto-Lock feature with DoorSense, your door will not lock until it is closed.
- · Auto-Lock can be set up in the lock settings of the app.
- · Auto-Unlock knows when you arrive and unlocks the door as you approach.

Auto-Unlock

Auto-Unlock can be set up in the lock settings of the app.

Passage Mode

- · Use passage mode when you want to disable Auto-Lock for an extended period of time.
- · Simply press and hold the Passage button on the inside of the lock until you hear a chime to turn it on.
- $\cdot\,\,$ To turn passage mode off, lock your door or press and hold the Passage button until you h ear a chime.
- · Yale Access products work in harmony with some of your favorite smart home brands.

Integrations

· Integrations can be set up in the Yale Access App from the "Works With" menu option.

App Settings

You can find these and other settings in the Yale Access App.

Security		
Hide Entry Cod es	If turned on, all entry codes within the app will be hidden from view.	
Verified Access e app.	If turned on, biometric/passcode authentication is required to operate the lock using th	
Notifications		
Smart Alerts	Create alerts you wish to receive from the app.	
Automation		
Auto-Lock	Door will automatically lock, either when door is closed (with DoorSense), or on a timer.	
Auto-Unlock	Door will automatically unlock when you arrive home.	
DoorSense	Allows you to know when your door is opened or closed.	
Information		
Programming Code	This code is automatically created by the Yale Access App and used to access programming features: handing, Smart M integration, and diagnostics. This code cannot be used to unlock the door. Find your programming code in the Yale Acce enter this code on the keypad and press the gear symbol.	

App Settings You can find these and other settings in the Yale Access App.

Advanced Device Settings			
	Volume You can turn the lock volume on or off, and set it to high or low.		
	When turned on, it will show the active status (e.g. locked) of the lock. This light will also infor m		
	Inside Indicator I	Inside Indicator Light	
	when the batteries are low, passage mode is enabled, and pairing is successful.		
Device Settings	One-Touch Loc king	Lock the keypad by nd can be turned of	v touching the Yale logo. This feature is on by default a ff in settings.
,		Shutdown Timing The lock will shut down for the set period of time and not allow (Default: 60 sec) operation after the wrong code entry limit has been reached.	
Keypad Security	,	Wrong Code Lim it (Default: 5 times)	After the set number of unsuccessful attempts at ent ering a valid entr code, the lock will shut down and n ot allow operation for 60 second
Keypad Settings		Normal ocked u	
		(Default)	the app and voice assistants.
Operating Mode		Vacation	When enabled, all entry code access will be restricte d. Users can sti lock and unlock the door with the ap p.

Lock Operations Troubleshooting

	· Press the Yale logo to activate the keypad.	
	· Verify contact with the logo.	
	· If keypad numbers are visible, check if they respond when pressed.	
Lock does not respond.	· Check batteries are installed and oriented correctly in battery case. Rep lace batteries* if neede	
•	· Check that the keypad wire is fully connected and not pinched.	
Lock does not respond – door is locked and unaccessible.	Batteries may not have enough power. Replace batteries*. Use mecha nical key to unlock the door.	
Lock is on for a while then show s no reaction. Lights dim.	- Batteries do not have enough power. Replace batteries*.	
Lock chimes indicating code ac ceptance but door will not open.	Check for any foreign objects between door and frame. Check that the wire is firmly connected to the interior lock.	
Lock operates to allow access b ut will not automatically unlock.	Check to see if Auto-Lock is enabled. Disable Auto-Lock to lock the door manually.	
Lock responds "Low Battery".	Replace all four (4) batteries* with new AA alkaline batteries.	

• After replacing your batteries, it's highly recommended to use your app to lock or unlock your device. This will allow the app to connect to the lock to ensure that the internal time of the device is correct.

Entry code will not register. Upon entering an entry code and	 If low battery indicator is lit, replace batteries*. Verify that your entry code consists of 4 to 8 digits. Make sure you are using different entry codes for different users. Entry code must be entered while the keypad is active (tap on the Yale I ogo to wake it up and the entry code within 5 seconds). 	
Verify entered code is a valid, previously programmed, 4 to 8 digit code.		
Check key, the lock displays "Invalid Code"		
· Vacation mode might be on. Only an admin user can switch vacation mode to normal in the ap		
error or lock times out without responding.		
Upon entering an entry code and pressing the Check key, lock res ponds "Wrong Number of Digits".	The digits entered were incorrect or incomplete. Re-enter the correct cod e followed by the Che key.	
Deadbolt does not extend when locking the		
· Lock was not handed properly. Find the setting called "Lock Handing" to fix this issue.		
door with the keypad.		

• After replacing your batteries, it's highly recommended to use your app to lock or unlock your device. This will allow the app to connect to the lock to ensure that the internal time of the device is correct.

· Check in the app settings if volume is set to off.

Hardware Troubleshooting

nd.

Lock operates but makes no sou

Deadbolt grinds and will not ext end to lock when using an entry code but thumbturn locks and u nlocks smoothly.

 \cdot Lock was not handed properly. Find the setting called "Lock Handing" to fix this issue.

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 the frame.

Adjust your existing knob, lever, or handleset strike plate. Latch engagement into the strike is the component us ed for door alignment.

To adjust knob / lever / handleset strike plate:

1. Remove plate from door frame with a hand screwdriver. Note: Using an electric driver may strip

Resistance when locking deadbolt that

screw heads or enlarge screw holes.

requires pushing or pulling on the door to of strike. Note: A small change may be

2. Locate tab on strike plate. Bend the tab towards surface

align deadbolt and latch.

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 dea could require a djustment we suggest you contact a local locksmith for assistance.

For help with misalignments, watch our door alignment video: US.YaleHome.com/Support

Use:

- Use of the Works with Apple badge means that an accessory has been designed to work specifically with the technology identified in the badge and has been certified by the developer to meet Apple performance standards.
- Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.
 Apple®, Apple Home™, Apple Watch®, HomeKit®, and iPhone® are trademarks of Apple Inc., registered in the U.S. and other countries and regions.
- Google, Google Play and Google Home are trademarks of Google LLC. Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates. Wi-Fi is a registered trademark of Wi-Fi Alliance®. The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Yale is under license. Other trademarks and trade names are those of their respective owners.

RF Exposure Statement:

FCC and IC RF Radiation Exposure Statement: This equipment complies with FCC and IC RF Radiation
exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or
operating in conjunction with any other antenna or transmitter.

 This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body

FCC:

- MZR-YRD450BLEV1 FCC Part 15.19
- This device complies with part 15 of the FCC rules Operation is subject to the following two condition:
 - 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 Part 15.21
- 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

Class B 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.
 - Distance between EUT and users is 20 cm.

Warning:

Changes or modifications to this device, not expressly approved by Yale Home could void the user's authority to operate the equipment. Industry Canada: **IC ID**: 2676A-YRD450BLEV1

This Class A digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operations 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

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FAQs

Q: How do I reset my lock to factory defaults?

A: You can reset your lock to factory defaults by following the instructions provided in the user manual under the "Resetting Your Lock to Factory Defaults" section.

Q: Can I use the lock without the Yale Access App?

A: While using the app provides additional functionalities and convenience, you can still operate the lock using entry codes and traditional keys without the app.

Documents / Resources



Yale Assure Lock 2 Smart Lock [pdf] Installation Guide YRD450BLEV1, YRD410, YRD420, Assure Lock 2 Smart Lock, Assure Lock 2, Smart Lock, Loc

References

- <u>a . Spend less. Smile more.</u>
- Wale Locks | Official Online Store | Yale Home
- User Manual

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