ASSA ABLOY

The global leader in door opening solutions

Yale Locks

YRD216/218/236 Z-Wave Plus System Integrators Guide

Yale Assure Deadbolt Lock

June 3, 2019

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Yale Z-Wave Plus Product Info

Manufacturer ID: Assa Abloy (0x0129)

Z-Wave Device Type: Door Lock Keypad

Z-Wave Role Type: Listening Sleeping Slave (LSS)

Product ID: 0x0600

Product Type ID:

0x8004 – YRD216-ZW2/YRD218-ZW2/YRD236-ZW2 (Push Button Deadbolt)

Supported Command Classes

Command Class Z-Wave Plus Info
Command Class Manufacturer Specific
Command Class Security
Command Class Device Reset Locally
Command Class Power Level
Command Class Version
Command Class Battery*
Command Class Door Lock*
Command Class Door Lock Logging*
Command Class Schedule Entry Lock*
Command Class User Code*
Command Class Time Parameters*
Command Class Time*
Command Class Association*
Command Class Association Group Info*
Command Class Notification*
Command Class Configuration*
Command Class Firmware Update Md*
* Command Class Requires Security

Association Table

Group ID	Maximum Nodes	Description	Commands
1	1	Lifeline	Command_Class_Battery, Battery_Report ; Command_Class_Notification, Notification_Report; Command_Class_Configuration, Configuration_Report; Command_Class_Device_reset_locally, Device_Reset_locally_notification

Notifications Table

Alarm Reports	***Alarm type***	***Alarm Level***	***Description***
Master Code changed.	0x70	0x00	Master code was changed at keypad
		0xFB	Master code was changed over RF
User added		0x(01-max users)	User added. Alarm level = user slot number
User deleted	0x21	0x(01-max users)	User was deleted. Alarm level = user slot number
Tamper Alarm	0xA1	0x01	keypad attempts exceed code entry limit
		0x02	front escutcheon removed from main
RF Operate Unlock	0x19	0x01	by RF module
Manual Unlock	0x16	0x01	By key cylinder or inside thumb turn
Keypad Unlock	0x13	0x(01-max users)	Where Alarm level represents user slot number (0xFB = Master Code)
Manual Lock	0x15	0x01	by key cylinder or inside thumb-turn
		0x02	by touch function (lock and leave)
		0x03	By inside button
RF Operate Lock	0x18	0x01	by RF module
Keypad Lock	0x12	0x (01 - max users)	Where Alarm level represents user slot number
Non Access	0x26	0x(01-max users)	A Non Access Code was entered at the lock. Where alarm level represents user slot number
Deadbolt Jammed	0x09	0x01	Deadbolt jammed while locking
		0x02	Deadbolt jammed while unlocking
Low Battery Alarms**	0xA9	0x (Current %)	Too Low to operate (Starting at 3.8V)
	0xA8	0x (Current %)	Critical Battery Level (Starting at 3.9V)
	0xA7	0x (Current %)	Low Battery (Starting at 4.2V)
Auto Lock Operate Locked	0x1B	0x01	Auto re-lock cycle complete, locked.
Duplicate Pin-code error	0x71	0x (01-max users)	Where Alarm level represents user slot number Alarm generated in response to add user RF cmd. This alarm is not generated when attempting to add duplicate pin at the keypad. The lock simply denies it

			and plays the “Denied”. Trying to duplicate the master code will result in a 0x71 0x00 alarm report.
RF Module Power Cycled	0x82	0x00	Power to RFM was restored, sent by RF module. The lock doesn’t send any alarm to the RF module when power is cycled.
Disabled user entered at keypad	0x83	0x(01-max users)	A disabled user pin code was entered at the keypad
Valid user but outside of schedule	0x84	0x(01-max users)	A valid user can be both a normal user and a Non-Access user. If a non-access user is out of schedule this alarm will be sent instead of the non-access alarm.
Daily Repeating Schedule Set/Erased	0x60	0x(01-max users)	Schedule(s) has been set/erased for specified user ID
Daily Repeating Schedule Enabled/Disabled	0x61	0x(01-max users)	Schedule(s) has been enabled/disabled for specified user ID
Year Day Schedule Set/Erased	0x62	0x(01-max users)	Schedule(s) has been set/erased for specified user ID
Year Day Schedule Enabled/Disabled	0x63	0x(01-max users)	Schedule(s) has been enabled/disabled for specified user ID
All Schedule Types Erased	0x64	0x(01-max users)	Schedule(s) has been set/erased for specified user ID
All Schedule Types Enabled/Disabled	0x65	0x(01-max users)	Schedule(s) has been enable/disabled for specified user ID

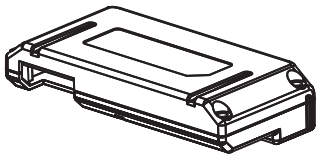
** - The Yale Assure Deadbolt locks also supports a 3rd low battery alarm, too low to operate. This alarm is sent out as a Battery Report (with value = 0xFF) through the Battery Command Class. This is the last low battery alarm level before the product stops functioning.

Configurable Parameters

Configuration Parameters	***Parameter Number***	***Size***	***Description***
Silent mode on/off	1	1 byte	Level control, 1 = High Volume, 3 = Silent**. Default is 1 or High Volume**
Auto Relock on/off	2	1 byte	**0x00 = OFF**, 0xFF = ON **default is 0x00 or OFF**
Auto Relock time	3	1 byte	10 to 180 seconds **default is 30 seconds**
Wrong Code Entry Limit	4	1 byte	3 to 10 **default is 5 times**
Shut down time (after wrong code entries)	7	1 byte	10 to 180 seconds **default is 60 seconds**
Operating mode	8	1 byte	**00 = normal mode (this is the default mode)** 01 = vacation mode, keypad lockout 02= privacy mode, no keypad. RF Unlock will work
One Touch Locking	11	1 byte	0x00 = OFF, 0xFF = ON **default is 0xFF or ON.**
Privacy Button	12	1 byte	0x00 = OFF, 0xFF = ON default is 0x00 or OFF
Lock Status LED	13	1 byte	0x00 = OFF, 0xFF = ON **default is 0x00 or OFF.**
Reset To Factory Defaults	15	1 byte	01 = Lock will execute Reset To Factory. **No default value**

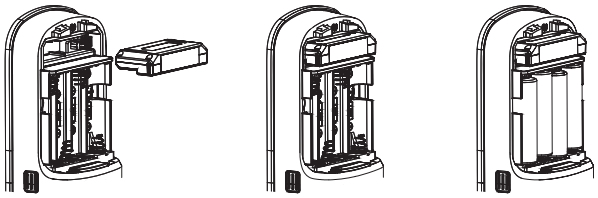
Yale® Z-Wave® Plus Smart Module Installation Guide

Please use this procedure only when network primary controller is missing or otherwise inoperable.



Adding a Yale Z-Wave® Plus Smart Module to your Assure Lock & Z-Wave System

1. Install the Yale Smart Module into the slot above the battery compartment
   IMPORTANT: The batteries must be removed before removing the Yale Smart Module:
   - Remove battery cover
   - Remove batteries
   - Insert or remove Yale Smart Module
   - Reinstall batteries
   - Reinstall battery cover



2. Open the Z-Wave system's smart home or alarm app on your smartphone or tablet

3. Follow the in-app instructions for adding a new device

4. On your lock keypad, enter your master entry code followed by the ⚙ icon

5. Press the 7 key followed by the ⚙ icon

6. Press the 1 key followed by the ⚙ icon

Removing a Yale Z-Wave® Plus Smart Module from your Assure Lock & Z-Wave System

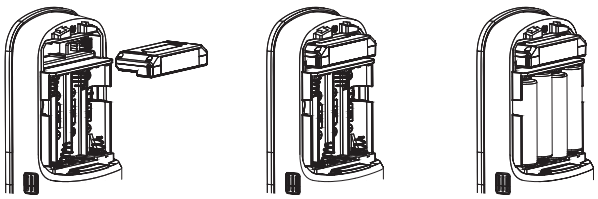
1. On your lock keypad, enter your master entry code followed by the ⚙ icon

2. Press the 7 key followed by the ⚙ icon

3. Press the 3 key followed by the ⚙ icon

4. Open the Z-Wave system's smart home or alarm app and follow the instructions for removing a device

5. Remove the Yale Smart Module from the slot above the battery compartment
   IMPORTANT: The batteries must be removed before removing the Yale Smart Module:
   - Remove battery cover
   - Remove batteries
   - Insert or remove Yale Smart Module
   - Reinstall batteries
   - Reinstall battery cover



6. If you're adding a new Yale Smart Module, follow the instructions included with it

P/N AYR202-ZW-INSTAL-FUL Rev E

Warning: Changes or modifications to this device, not expressly approved by ASSA ABLOY Residential Group could void the user's authority to operate the equipment.

This device is a security enabled Z-Wave Plus product that is able to use encrypted Z-Wave Plus messages to communicate to other security enabled Z-Wave Plus products. This device must be used in conjunction with a Security Enabled Z-Wave Controller in order to fully utilize all implemented functions. 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.

FCC:
Contain FCC ID: U4A-YRHCPZW0FM
Model: YRMZW2-US
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.

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.

Industry Canada:
Contain IC: 6982A-YRHCPZW0FM
Model: YRMZW2-US
Section 7.1.2 of RSS-GEN Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.
En vertu des règlements d'Industrie Canada, cet émetteur radio ne peut fonctionner avec une antenne d'un type et un maximum (ou moins) approuvés pour gagner de l'émetteur par Industrie Canada. Pour réduire le risque d'interférence aux autres utilisateurs, le type d'antenne et son gain doivent être choisies de façon que la puissance isotrope rayonnée équivalente (PIRE) ne dépasse pas ce qui est nécessaire pour une communication réussie.

Section 7.1.3 of RSS-GEN This Device complies with Industry Canada License-exempt RSS standard(s). Operation is subject to the following two conditions: 1) this device may not cause interference, and 2) this device must accept any interference, including interference that may cause undesired operation of the device.
Cet appareil est conforme avec Industrie Canada RSS standard exemptes de licence(s). Son fonctionnement est soumis aux deux conditions suivantes: 1) ce dispositif ne peut causer des interférences, et 2) cet appareil doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement du dispositif.

This radio transmitter 6982A-YRHCPZW0FM has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio 6982A-YRHCPZW0FM a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

CAN ICES-3B/NMB-3B

Yale Locks & Hardware

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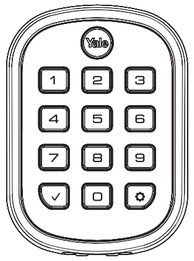
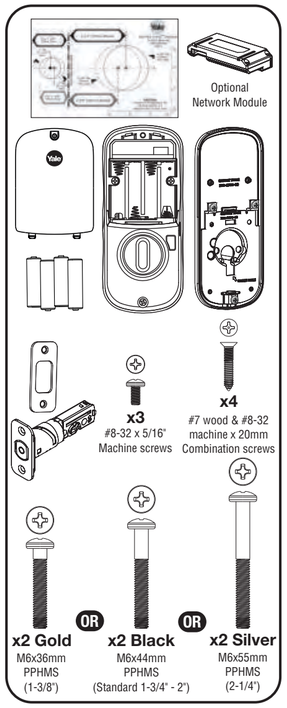
Yale real Living

Assure Lock® SL
Key Free Keypad Deadbolt
Installation and Programming Instructions





Before you begin

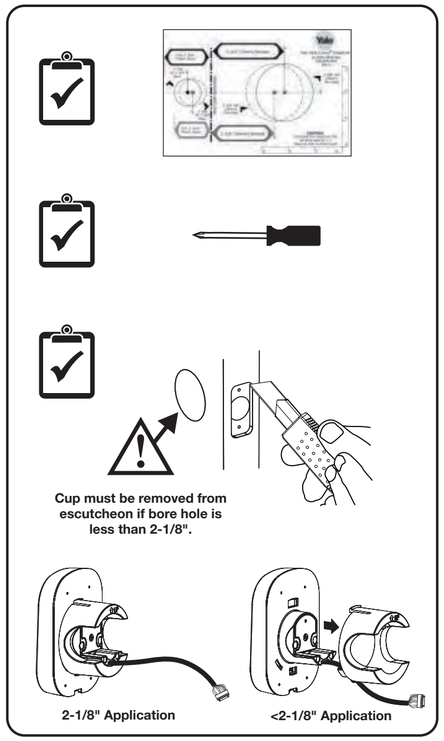
DOWNLOAD THE BILT APP

for step-by-step installation instructions & to register your product

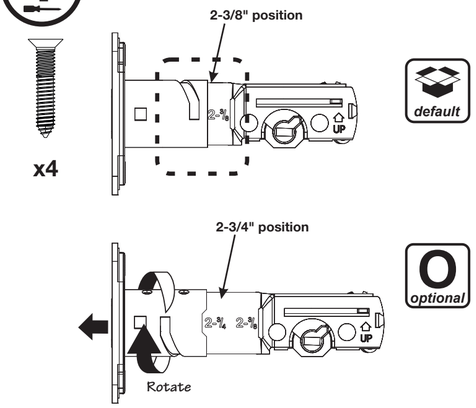
FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN DAMAGE TO THE PRODUCT AND VOID THE FACTORY WARRANTY

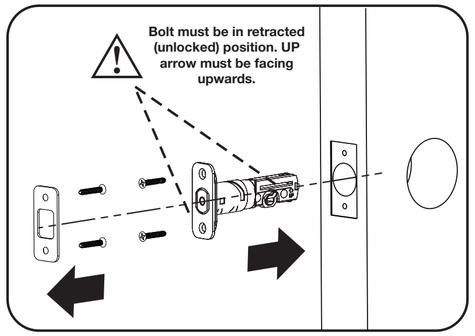
An ASSA ABLOY Group brand
P/N YRD236-MNL-0011 Rev A
ASSA ABLOY

Preparing Door and Keypad Escutcheon

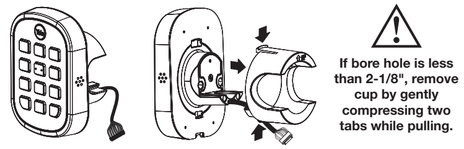


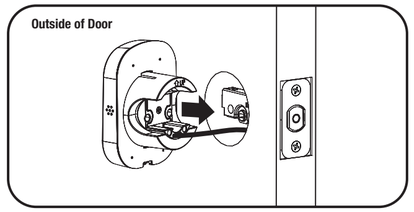
1 Installing Latch & Strike Plate

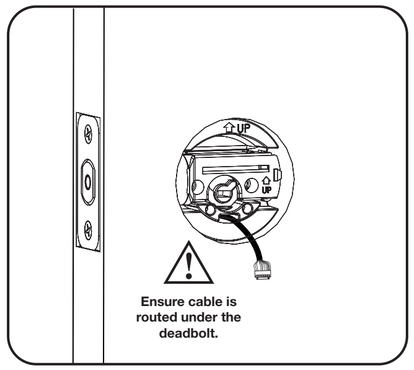




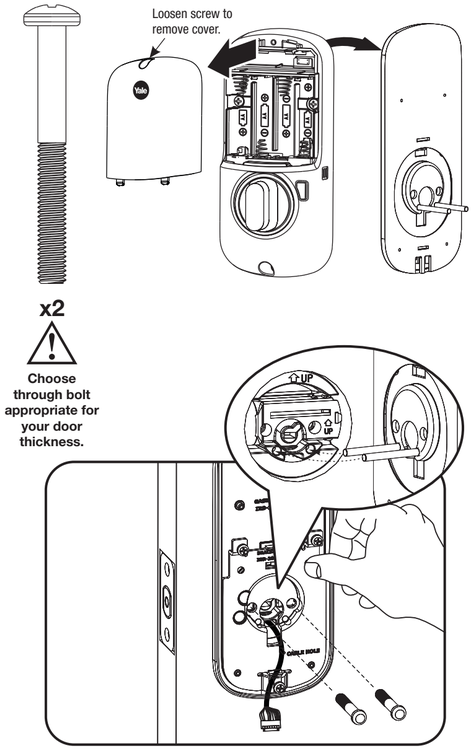
2 Installing Keypad Escutcheon



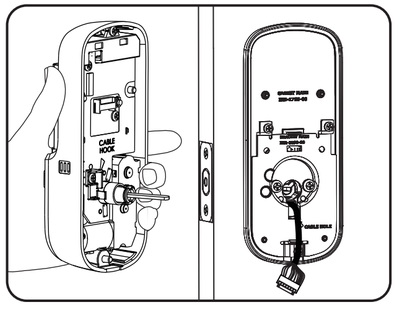


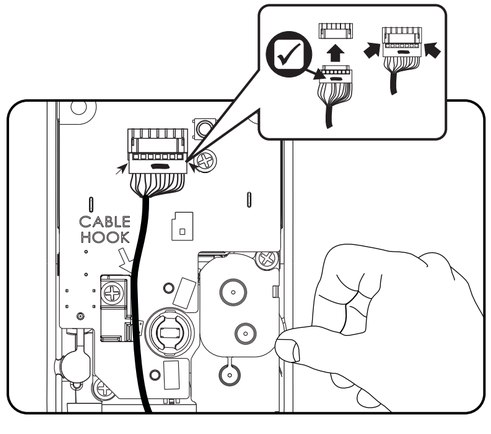


3 Installing Interior Mounting Plate

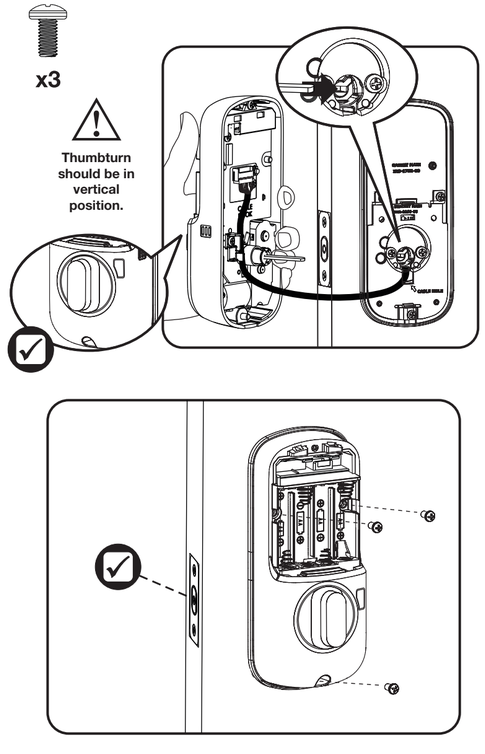


4 Attaching the Cable Assembly

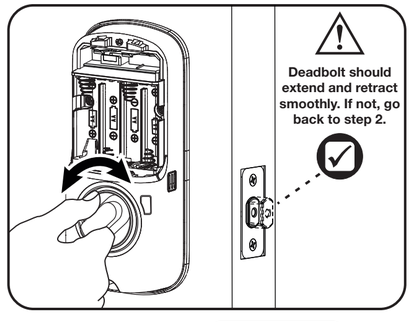


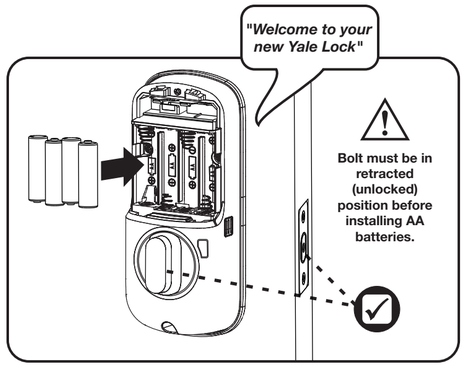


5 Installing Interior Escutcheon

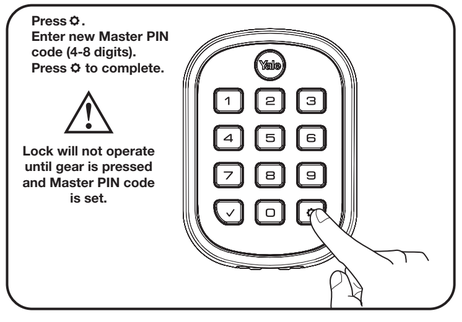


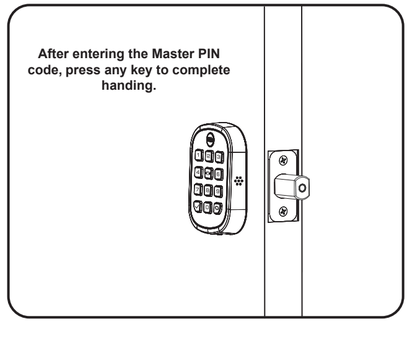
Testing Operation



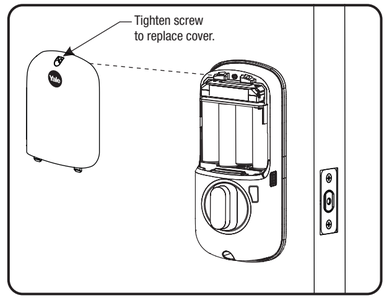


Initial Programming



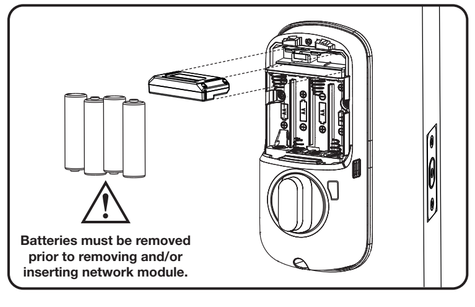


6 Installing Cover

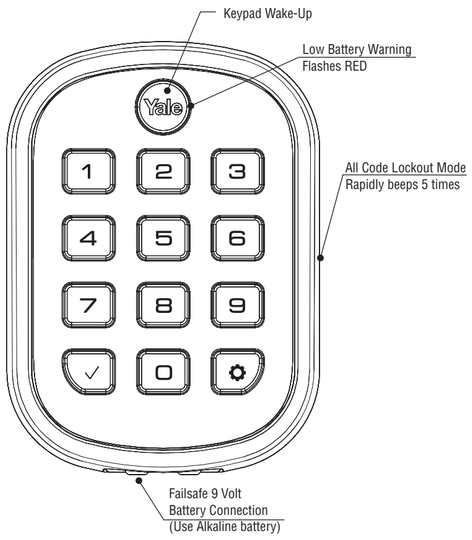


Congratulations, you've installed the Assure Lock® SL Key Free Keypad Deadbolt! Turn sheet over for Programming Instructions to customize your product.

Installing Optional Network Module



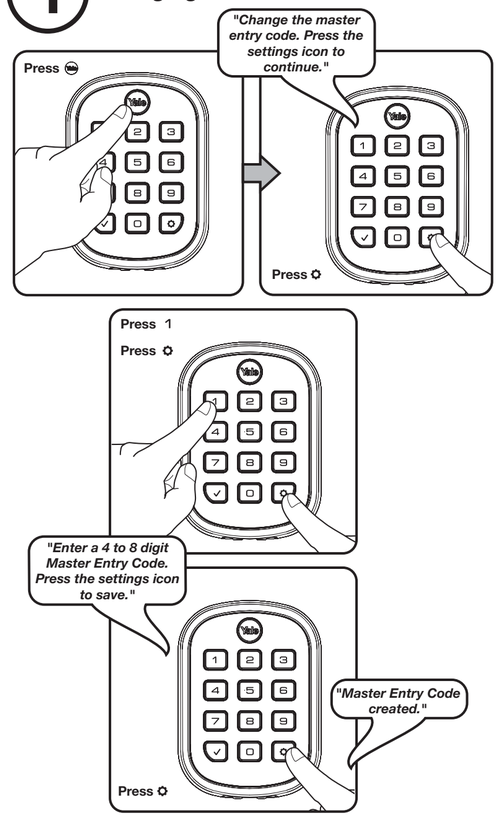
Programming Instructions



Master PIN Code must be created before any further programming.
Max User Codes = 250 in network

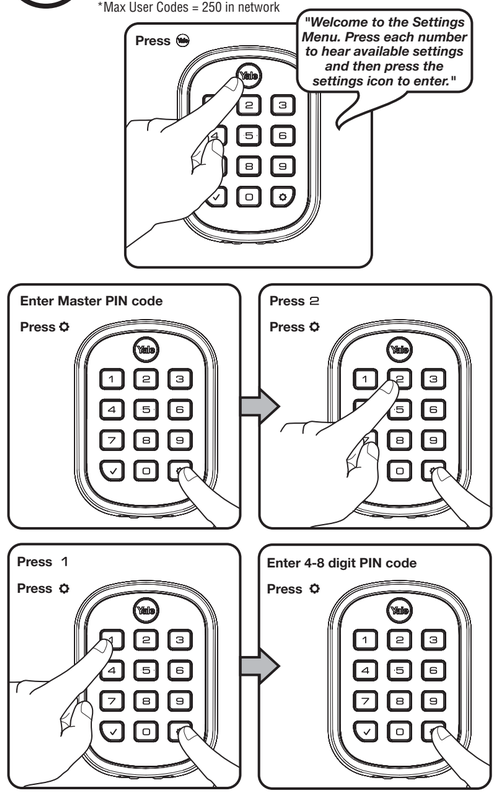
Warning: Changes or modifications to this device, not expressly approved by ASSA ABLOY Residential Group could void the user's authority to operate the equipment.

1 Changing Master PIN Code

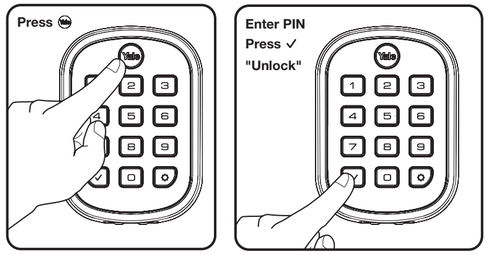


2 Creating User PIN Codes

Master PIN code must be created first.
*Max User Codes = 250 in network



3 Unlocking Door with PIN Code



Code Chart Duplicate if necessary

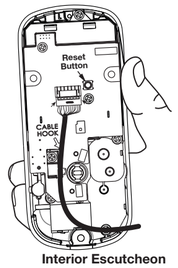
PIN Code Management - Up to 250 Users (in network)	
User Name	PIN Code

Resetting Lock to Factory Default

When lock is reset to factory defaults all user codes (including the Master PIN code*) are deleted and all programming features are reset to original default settings (see "Factory Default Settings").

1. Remove the battery cover.
2. Remove the batteries.
3. While pressing the reset button (minimum of 3 seconds) reinstall batteries. Release reset button.
4. Replace battery cover.

Upon reset, Master Code creation is the only option available and must be performed prior to any other programming of the lock.
NOTE: After setting the Master Code, press any key to complete handing of the lock.



Interior Escutcheon

Factory Settings

Settings	Factory Setting
Master PIN Code	Registration ***required****
Automatic Re-lock	Disabled
Inside Indicator Light	Disabled
Language	English
One Touch Locking	Enabled
Privacy Button	Disabled
Shutdown Time	60 Seconds
Vacation Mode	Disabled
Volume	Low
Wrong Code Entry Limit	5 Times

*The Master PIN code must be registered prior to any other programming of the lock.

Setting Definitions

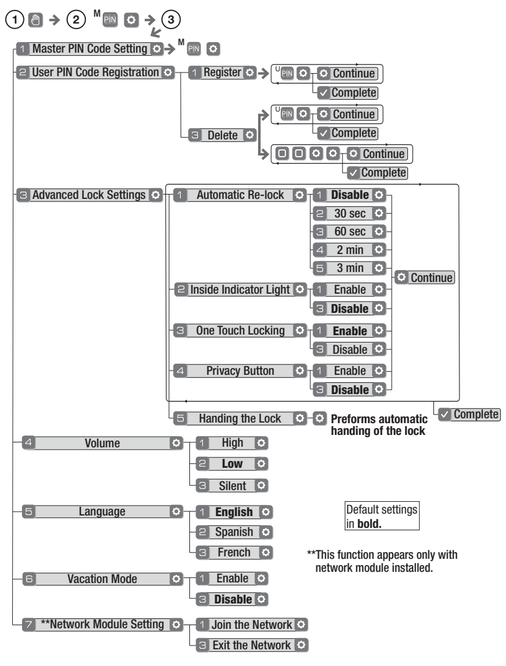
Settings	Default Setting	Definition
Master PIN Code	Creation ***required****	The Master PIN Code is used for programming and for feature settings. **It must be created prior to programming the lock.** The Master PIN code will also operate (unlock/lock) the lock.
Automatic Re-lock	Disabled	After a successful code entry, the lock will automatically re-lock after each unlock in an effort to keep your home secure. This feature is optional, and can be turned off. In the ON mode, the lock will automatically re-lock after thirty (30) seconds.
Inside Notification Light	Disabled (Off)	Located on the inside lock. Shows active status (Locked) of lock and can be enabled or disabled in the **Advanced Lock Settings** (Main Menu selection #3).
One Touch Locking	Enabled	When the latch is retracted, activating the keypad will extend the latch (during Automatic Re-lock duration or when Automatic Re-lock is disabled). When One-Touch Re-lock is **not** in use **(disabled),** any valid PIN code will re-lock the lock.
Privacy Button	Disabled	Privacy mode is disabled by default. Enable Privacy mode by pressing the privacy button for 4 seconds to put the lock in do-not-disturb mode (all pin codes are disabled).
Volume	Enabled (Low)	The volume setting for entry code verification is set to **Low (2)** by default; otherwise it can be set to **High (1)** or **Silent (3)** for quiet areas.
Language	English	Choosing English (1), Spanish (2) or French (3) becomes the (default) setting for the lock's voice prompts.
Vacation Mode	Disabled	This feature is enabled by the Master PIN Code. When enabled, it restricts all user (except Master) PIN Code access. When attempting to enter a code while the lock is in Vacation mode, the RED locked padlock will appear on the screen.
Wrong Code Entry 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.
Shutdown Time	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 met.

*The Master PIN Code must be created prior to any other programming of the lock.

Feature Programming Through Menu Mode Using Master PIN code*

1. Touch screen with back of hand or palm to activate.
2. Enter 4-8 digit master PIN code* followed by ⚙ key.
   Lock Response: "Menu mode, enter number, press ⚙ key to continue."
3. Enter digit corresponding to the function to be performed followed by the ⚙ key. Follow the voice commands.

***The Master PIN code must be registered prior to any other programming of the lock.**



Programming Troubleshooting

Symptom	Suggested Action
Lock does not respond – door is open and accessible.	• Press each keypad key for response when pressed. • Check batteries are installed and oriented correctly (polarity) in the battery case. • Check batteries are in good condition; replace batteries* if discharged. • Check to see if cable is fully connected and not pinched.
Lock does not respond – door is locked and inaccessible.	• Batteries may be completely discharged. • Apply 9V battery to terminals below the keypad for backup power option.
Unit chimes to indicate code acceptance, but the door will not open.	• Check to see if there is another locking device on the door. • Check the door gaps for any foreign objects between door and frame. • Check that the cable is firmly connected to the PC board.
Unit operates to allow access, but will not automatically re-lock.	• Check to see if Auto Re-lock Mode is enabled. • If low battery indicator is lit (see below), change batteries*.
PIN codes will not register.	• PIN codes must consist of 4 to 8 digits to register. • The same PIN code cannot be used for multiple users. • Registration/management of PIN codes is set by the authority of the Master Code. • Contact the Master user. • User codes must be entered within 20 seconds or the process will have to be restarted. • Check mark ✓ or gear ⚙ cannot be used as part of the PIN code.
Upon entering a PIN code and pressing the ✓ key, the lock gives a series of beeps, flashes red 7 times, and does not unlock.	• All Code Lockout Mode is enabled. • Only the Master can enable/disable All Code Lockout Mode. • Contact the Master user.
Upon entering a PIN code and pressing the ✓ key, there are different tones.	• Check to see if the lock is set to All Code Lockout Mode. • Setting/managing All Code Lockout Mode is done through Master Code only. Contact the Master user.
The unit operates, but it makes no sound.	• Enable Audio Mode.
The unit displays intermittent RED flashes.	• This is the Low Battery indicator alerting that it is time to replace the batteries. Replace all four (4) batteries* with new AA Alkaline batteries.
Upon entering a PIN code and pressing the ✓ key, the unit responds with a series of beeps and the touchscreen flashes three times.	• The digits entered were incorrect or incomplete. Re-enter the correct code followed by the check mark ✓ key.

*** When batteries are replaced, Network locks have a real time clock that will be set through the User Interface (UI); it is recommended to verify correct date and time particularly those locks operating under Daylight Saving Time (DST).**

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

FCC:
Contain FCC ID: 2ABFG- YRIZW2USTS1
Model: YRD156-ZW-619,605,0BP
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.

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.

Industry Canada:
Contain 11626A- YRIZW2USTS1
Model: YRD156- ZW-619,605,0BP
Section 7.1.2 of RSS-GEN Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.
En vertu des règlements d'Industrie Canada, cet émetteur radio ne peut fonctionner avec une antenne d'un type et un maximum (ou moins) approuvés pour gagner de l'émetteur par Industrie Canada. Pour réduire le risque d'interférence aux autres utilisateurs, le type d'antenne et son gain doivent être choisies de façon que la puissance isotrope rayonnée équivalente (PIRE) ne dépasse pas ce qui est nécessaire pour une communication réussie.

Section 7.1.3 of RSS-GEN This Device complies with Industry Canada License-exempt RSS standard(s). Operation is subject to the following two conditions: 1) this device may not cause interference, and 2) this device must accept any interference, including interference that may cause undesired operation of the device.
Cet appareil est conforme avec Industrie Canada RSS standard exemptes de licence(s). Son fonctionnement est soumis aux deux conditions suivantes: 1) ce dispositif ne peut causer des interférences, et 2) cet appareil doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement du dispositif.

This radio transmitter 6982A-YRHCPZW0FM has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio 6982A-YRHCPZW0FM a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

CAN ICES-3B/NMB-3B

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

Yale Locks & Hardware

Product Support Tel 1-855-213-5841 • www.yalehome.com

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