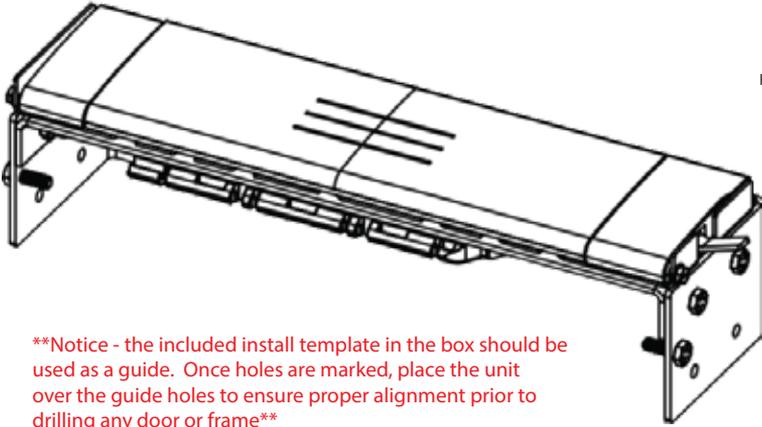


# Installation Manual



For the most current and comprehensive manual please visit the QR code.

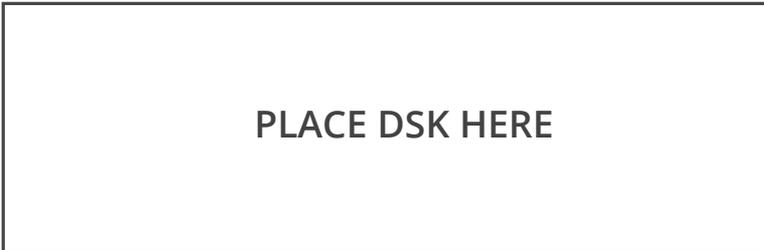


**\*\*Notice - the included install template in the box should be used as a guide. Once holes are marked, place the unit over the guide holes to ensure proper alignment prior to drilling any door or frame\*\***

## **IQLOCKDOWN™**

**High-strength, Z-WAVE enabled smart lock for Commercial applications.**

- 1 Safety, Warnings, Regulations
- 3 Warranty
- 6 Installing Your IQ Lockdown
- 7 Z-WAVE Operation
- 11 LED and Sounds
- 12 Outward-swinging door configuration
- 13 In-swinging door configuration
- 14 Hardware Accessory Installation
- 16 Troubleshooting
- 17 Important Safeguards



Patent Protected: European Patent Number: 3,194,692; Issued: China; U.S.A. Patent: 10,669,758 / 10,851,568

## Important Safety Instructions

### Explanation of Attention Words and Symbols used in this guide



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

#### WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

#### CAUTION

CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

#### CAUTION

CAUTION, used without the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in harm to yourself and others.

#### NOTICE

NOTICE is used to address safe-use practices not related to personal injury.

---

#### WARNING

IQ Lockdown will not prevent someone from accessing your home, business, or commercial facility via other means.

IQ Lockdown will not prevent someone from getting through your door if they use special tools.

IQ Lockdown is designed as a lock to prevent a closed door from being forced open when blunt force is used against the middle section of the door near the outside door handle. Any other entry attempt does not fall under the product definition or purpose of IQ Lockdown. For instance, a person who uses a special tool to remove the door or any elements of the door or attempts to cross the barrier of the door through an opening does not fall under the defined use of IQ Lockdown.

If you experienced a breach attempt with IQ Lockdown installed we recommend that you replace your IQ Lockdown.

Do not attempt to disassemble unit or remove components that are not explicitly stated in the installation manual.

Do not press down on the thumb press and locking gate at the same time.

Owner is responsible for providing alternative access to the building in the event of fire, potential smoke inhalation, carbon dioxide event, or other emergency not listed explicitly here.

Owner is responsible to ensure proper fit and correct installation.

Owner is responsible for safety of themselves and others. If you are unsure if this product is right for you, please consult our **Help Team** at [support@havenlock.com](mailto:support@havenlock.com) or other security professional.

**CAUTION**

Use caution when installing IQ Lockdown on a doorway during installation and use.

Owner is responsible for reading and following the operating and safety instructions as well as proper use of the lock. Wear appropriate protective items during installation to avoid injury.

Do not install near live electrical cords. Ensure installation area is free of wires, cables, pipes, and other objects that may cause hazards.

Use only the tools referenced in the installation guide. Use of other tools or not following installation instructions may result in improper installation and decreased functionality.

Owner is responsible for proper use and avoidance of IQ Lockdown as a bump hazard. Install IQ Lockdown on solid core, commercial doors only. Installation on hollow core doors will severely degrade the lock's capabilities and is not recommended.

Owner is responsible for ensuring the unit is clean for full functionality and capabilities.

**CAUTION**

Owner is responsible for providing access to the building or commercial facility. Owner is responsible for ensuring alternate access into the building when needed.

Owner is responsible for maintaining control of permissions, access control, and accountability of any key fob or credentialed device that has been shared with the lock.

The unit is designed to act as a deterrent, but should still be used in conjunction with other safety measures. The unit is intended as supplementary security for use in conjunction with current lock hardware.

Johnson Controls is not liable for any personal injuries, property damage, economic loss or any consequential damages sustained as a result of any individual that comes into contact with the lock or attempts to breach it.

Do not consume any area of the unit.  
Do not put the unit near sensitive bodily areas.

Do not place fingers near the center locking gate or bracketing hardware while the lock is being used. Severe injury to fingers could result from getting caught between the locking gate and bracket.

**NOTICE**

To avoid damage to the unit, do not use on wet surfaces or damp locations. The product is designed for indoor use only. Do not expose to weather elements as this may affect functionality.

To avoid potential damage to your unit, do not simulate a breach. Damage to the unit may affect later functionality.

Owner is responsible for ensuring unit is operating properly. Johnson Controls expressly disclaims all guarantees, whether implied or expressed, to include but not limited to fitness or merchantability for a particular purpose.

**REGULATORY INFORMATION: UL 60950-1, UL 294, UL-10C, CAN/ULC S104**



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.

20 Minute - 45 Minute Rating  
Test Standard: UL 10C, NFPA 252, CAN/ULC S104  
Guardian Fire Testing Laboratories Inc.  
ISO 17020, 17025, 17065  
Firetesting.com

It is recommended that the product shall be installed in accordance with the applicable requirements in NFPA 101 (chapters 14, 15), NFPA 80, IBC/IFC, NFPA 72 and the Authority Having Jurisdiction (AHJ).

**Regulatory Note:** SGS has evaluated and certified this product for safety under UL 294, 7th Ed. Jan. 31, 2018, UL 60950-1, 2nd Ed., Rev. May 9, 2019, CAN/CSA C22.2 No. 60950-1-07, as a commercial locking device. Utilize SGS reference number 800596 and SGSNA/20/SUW/00006 for additional information related to this standard.

**RF Exposure:** This device is currently SAR exempt.

**RF Communication:** The installer shall perform an RF communication verification before finalizing the location of the lock to ensure proper signal strength is received from the compatible control panel using Z-Wave communication.

**Safety Notes:** Ensure that the provided wall charger adapter and wire accessory cable are used to charge the device as necessary. Utilizing anything other than provided could cause a shock or hazard rendering the device inoperable as well as potential injury.

**WARNING:** Changes or modifications which are not expressly approved by Johnson Controls could void the user's authority to operate the equipment.  
**AVERTISSEMENT:** Les changements ou modifications qui ne sont pas approuvés par HavenLock Inc. and Johnson Controls pourrait annuler l'autorité de l'utilisateur de faire fonctionner l'équipement

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.

Cet appareil contient des émetteurs / récepteurs exemptés de licence conformes aux RSS (RSS) d'Innovation, Sciences et Développement économique Canada. Le fonctionnement est soumis aux deux conditions suivantes:

- 1) Cet appareil ne doit pas causer d'interférences.
- 2) Cet appareil doit accepter toutes les interférences, y compris celles susceptibles de provoquer un fonctionnement indésirable de l'appareil.

This system has been evaluated for RF Exposure per RSS-102 and is in compliance with the limits specified by Health Canada Safety Code 6. The system must be installed at a minimum separation distance from the antenna to the general bystander of 20cm to maintain compliance with the General Population limits.

L'exposition aux radiofréquences de ce système a été évaluée selon la norme RSS-102 et est jugée conforme aux limites établies par le Code de sécurité 6 de Santé Canada. Le système doit être installé à une distance minimale 20 cm séparant l'antenne d'une personne présente en conformité avec les limites permises d'exposition du grand public







## INSTALLING YOUR IQ Lockdown

### Included Items:



#### Power Adapter

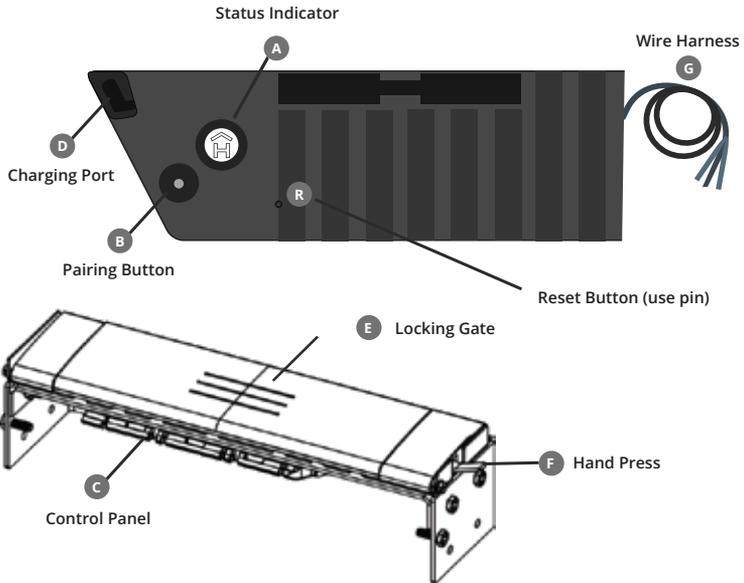
120v AC USB Adapter for use with included charging cable



#### Charging Cable

USB Charging cable used to charge your IQ Lockdown

Control Panel (inside of shell enclosure under shelf)



### \*NOTE\*

#### Mounting Hardware, Bracket, & Plate Cover

Hardware is listed on the install diagram along with included assembly components, bolts, and tools required

## 1 Charging

Push the Reset button (R) through the pinhole to wake the unit from shipping mode. Plug the included charging cable (USB end) into the included power adapter. Open the Haven / IQ Lockdown Control Panel cover (C) and plug the charging cable into the Charging Port (D). The status indicator LED will flash Yellow every 2.5 seconds when charging. Each lock comes with greater than a 30% charge. You may want to allow IQ Lockdown to fully charge 6-8 hours before use.

## 2 Cycling the Lock

Cycling the lock a minimum of 10 times prior to installation ensures that the nylon straps inside the lock are properly stretched and calibrated. During shipment parts can settle and this cycling allows the parts to "stretch" and maximize their effectiveness. A "cycle" is simply locking and unlocking the lock via the hand press (F) and lock gate (E). Cycling the lock via the app a minimum of 5 times helps ensure the servo motor is properly engaged and ready for use.

## 3 Include in Z-WAVE Network

Push the Pairing button (B) to start the inclusion process. See "Network Inclusion/Excursion" in the Z-WAVE section for more details. After inclusion, cycle the lock via the mobile app or customer site a minimum of 5 times to ensure proper operation and servo cycling. Refer to installation manuals for compatible panels for details on how to connect and control IQ Lockdown from these panels. The following are the recommended compatible panels: DSC Power Series NEO, Power Series PRO, Qolsys IQPanel2, IQHub, and IQPanel4.

## 4 Preparation for Hardware Installation

In order to mount the lock to a standard 2" commercial frame and door you need to check several things. First confirm the door is either an in-swing or an outward swinging door. This will dictate the bracket that you use. Second confirm that the frame is a 2" and/or can accept the bracket and configuration. Third, confirm that the door is either solid core or a metal door that is in good condition. Check pages 10 and 11 for further installation steps and instructions.

## 5 Connect Hardware Accessories

Your lock may come with a wire harness (G) protruding from the control panel. This wiring harness is used for connecting an accessory to the lock. Before you proceed to hardwiring any accessory please follow the instructions on the hardware accessory installation page.

## Z-WAVE OPERATION

# IQ Lockdown with Z-Wave Plus

This product can be operated in any Z-WAVE network with other Z-WAVE certified devices from other manufacturers. All mains operated nodes within network will act as repeaters regardless of vendor to increase reliability of the network.

### Button Functions

There are two buttons on the IQ Lockdown device. A small button (hereinafter referred to as Reset button ) that is accessed via a small hole and pressed with a paperclip or similar object, and a larger button (Hereinafter referred to as Pairing button ) that may be operated with a finger press.

Pairing button is used for network inclusion, network exclusion, and defaulting and removing the IQ Lockdown from the network (Device Reset Locally Command Class). Reset button is used to perform a microprocessor reset.

1. Reset microprocessor: Tap Reset button (with paperclip).
2. Default settings and remove from network: Hold Pairing button until Red LED comes on and then release (about 10 seconds). Please use this procedure only when the network primary controller is missing or otherwise inoperable.
3. When controller is in Add or Remove mode, tapping the Pairing button will remove the node if it's included in the network or add the node if it's not. This assumes SmartStart is not being used to add the node. Details on inclusion/exclusion below.

### Network Inclusion / Exclusion

The device can be included in the Z-WAVE network using S0 or S2 Access Control security. Inclusion can be via standard inclusion, NWI (Network Wide Inclusion) or SmartStart:

- If the Device Specific Key has been added to the controller's provisioning list, it will be added automatically added to the network within 5 minutes.
- Setting your controller to include mode (standard or NWI) and momentarily pressing the Pairing button will add the IQ Lockdown to the network. If the controller supports S2 security, you will be prompted to enter the first 5 digits of the DSK to complete the authentication, known as the Pin Code.
- The device can be removed from a network by setting the controller to exclude mode (standard or NWE) and momentarily pressing the Pairing button. The device can also be removed by pressing and holding the Pairing until the Red LED Illuminates and then releasing. This will initiate the Device Reset Locally Command Class. The device will be removed and all parameters will be reset to default. Please use this procedure only when the network primary controller is missing or otherwise inoperable. controller is missing or otherwise inoperable.

### Network Inclusion / Exclusion continued

- SmartStart-enabled products can be added into a Z-WAVE network by scanning the Z-WAVE QR Code present on the product with a controller providing SmartStart inclusion. No further action is required and the StartStart product will be added automatically within 10 minutes of being switched on in the network vicinity.
- Locate the DSK via the QR code label under the IQ Lockdown electronics hood adjacent to the buttons and LEDs. If the controller supports S2 security, you will be prompted to enter the first 5 digits of the DSK to complete the authentication, known as the Pin Code.

### Z-WAVE Lock Operation

1. To Lock: Sending command class = COMMAND\_CLASS\_DOOR\_LOCK, command = DOOR\_LOCK\_OPERATION\_SET, mode = 0xFF (DOOR\_SECURED) or BASIC\_SET value 0xFF will raise the gate. Notification Type Access Control, Event 0x03 (RF lock operation) is sent to the Lifeline and then one second later, a Door Lock Operation Report is sent to the Lifeline.
2. To Unlock: Sending command class = COMMAND\_CLASS\_DOOR\_LOCK, command = DOOR\_LOCK\_OPERATION\_SET, mode = 0x00 (DOOR\_UNSECURED) or BASIC\_SET value 0x00 will lower the gate. Notification Type Access Control, Event 0x04 (RF unlock operation) is sent to the Lifeline and then one second later, a Door Lock Operation Report is sent to the Lifeline.

### Manual Lock Operation Reports

1. If the gate is raised manually, Notification Type Access Control, Event 0x01 (Manual lock operation) is sent to the Lifeline then one second later, a Door Lock Operation Report is sent to the Lifeline.
2. If the gate is lowered manually, Notification Type Access Control, Event 0x02 (Manual unlock operation) is sent to the Lifeline and then one second later, a Door Lock Operation Report is sent to the Lifeline.

### Sleep / Shipping Mode

You can put the IQ Lockdown completely to sleep for shipping or long term storage. This operation clears memory and resets all network inclusions. You will need to re-include the device once woken up.

Deep Sleep Mode: Press and hold the reset button (with paperclip). While holding the reset button press and hold the pairing button. Release the reset button first. Then release the pairing button. If successful, you can press the pairing button or toggle the gate and should not see or hear LED or chirp activity.

Wakeup: Wake the unit from deep sleep by pressing the reset button (with paperclip).

### Battery State and Charging

Battery state is checked upon startup and Battery CC V2 report is sent to the Lifeline Group. Battery is then checked every 5 minutes. A battery report is also sent every 24 hours. Indications and operation are as follows:

1. If battery falls below 25%, Battery report is sent to the Lifeline. One second later, Notification CC sends Power Management (0x08) event "Charge battery soon" (0x0E).
2. If battery falls below 10%, Battery report is sent to the Lifeline. One second later, Notification CC sends Power Management (0x08) event "Charge battery now" (0x0F). At this point, the gate will no longer raise but can still be lowered.
3. When charger is plugged in, Battery report is sent to the Lifeline. One second later, Notification CC sends Power Management (0x08) event "Battery is charging" (0x0C). Yellow LED flashes every 2.5 seconds.
4. When charge is complete, Battery report is sent to the Lifeline. One second later, Notification CC sends Power Management (0x08) event "Battery is fully charged" (0x0D).

Battery CC V2 support extended information in the Battery Report and can be queried at any time with the Battery Get command. Additional information about the battery can be retrieved with the Battery Health Get command.

### Quick Test Mode

Sometimes it's helpful to make sure your lock is functioning properly using our quick test mode. To enter quick test mode press the pairing button three times in steady succession. The LED will flash blue and green, the unit will chirp, and it will go into a state of constantly flashing blue. Once in this mode, you can press the pairing button to control the gate. Avoid toggling the gate any faster than once every 4 seconds. To get out of Quick Test Mode reset the unit using the reset button (with paperclip). Test mode times out after 1 minute.

### Association Groups

Supports 1 group (#1, Lifeline) with up to 5 nodes. Command classes reported to the Lifeline:

1. NOTIFICATION\_REPORT
2. BATTERY\_REPORT
3. DEVICE\_RESET\_LOCALLY
4. INDICATOR\_REPORT
5. DOOR\_LOCK\_OPERATION\_REPORT

Command Class List (Security: None)

Name	Version
COMMAND_CLASS_ZWAVEPLUS_INFO	2
COMMAND_CLASS_TRANSPORT_SERVICE	2
COMMAND_CLASS_SECURITY	1
COMMAND_CLASS_SECURITY_2	2
COMMAND_CLASS_SUPERVISION	1

Command Class List (Security: S0 or Access Control)

Name	Version
COMMAND_CLASS_VERSION	3
COMMAND_CLASS_MANUFACTURER_SPECIFIC	2
COMMAND_CLASS_DEVICE_RESET_LOCALLY	1
COMMAND_CLASS_INDICATOR	3
COMMAND_CLASS_POWERLEVEL	1
COMMAND_CLASS_BATTERY	2
COMMAND_CLASS_NOTIFICATION	8
COMMAND_CLASS_DOOR_LOCK	4
COMMAND_CLASS_CONFIGURATION	4
COMMAND_CLASS_ASSOCIATION	2
COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION	3
COMMAND_CLASS_ASSOCIATION_GRP_INFO	3
COMMAND_CLASS_FIRMWARE_UPDATE_MD	5

## Notification Command Class

All notifications are sent unsolicited.

Type (Value)	Notification Name	Value
Access Control (0x06)	Manual lock operation	0x01
	Manual unlock operation	0x02
	RF lock operation	0x03
	RF unlock operation	0x04
	Lock jammed	0x0B
Home Security (0x07)	Impact detected	0x0A
Power Management (0x08)	Power has been applied	0x01
	Battery is charging	0x0C
	Battery is full charged	0x0D
	Charge battery soon	0x0E
	Charge battery now	0x0F

## Configuration Parameters

### Parameter 0x01:

**Name:** Heartbeat LED interval  
**Description:** Heartbeat (magenta) LED flash rate in seconds.  
 Set to zero to disable.  
**Default:** 0x00 (disabled)  
**Min:** 0x00 (disabled)  
**Max:** 0x3C (60 seconds)

### Parameter 0x02:

**Name:** Gate Operation Minimum Battery Level%  
**Description:** m battery level at which the gate will activate.  
**Default:** 0x0A (10%)  
**Min:** 0x00 (0%)  
**Max:** 0x32 (50%)

### Parameter 0x03:

**Name:** Transient Debounce  
**Description:** Impact detect parameter.  
 Do not adjust unless advised by IQ Lockdown.  
**Default:** 0x02  
**Min:** 0x01  
**Max:** 0x0A

### Parameter 0x04:

**Name:** Transient Threshold  
**Description:** Impact detect parameter.  
 Do not adjust unless advised by IQ Lockdown.  
**Default:** 0x06  
**Min:** 0x02  
**Max:** 0x12

### Parameter 0xCD:

**Name:** Lockdown Z vs. Connect Z Product  
**Description:** This parameter distinguishes the firmware between the Residential Haven Connect Z and the Commercial IQ Lockdown.  
 For Lockdown, this parameter should be set to 0x02. Residential is 0x01. This parameter drives the product ID reported to Z-wave controllers and enables/disables the capability of wired control inputs often used in commercial installations.  
**Default:** 0x02  
**Lockdown ID:** 0x02  
**Residential ID:** 0x01

## Impact Detection

The impact detection function uses an accelerometer that is tuned using parameters 3 and 4 set in the Configuration Command Class. When the gate is up and transient threshold (parameter 4) is exceeded, a Home Security (0x07) Notification, event type Impact Detected (0x0A) is sent to the Lifeline. In addition, the system sends a Door Lock Operation Report and Access Control Notification to communicate locked status.

## Glossary

- NWI - Network Wide Inclusion
- NWE - Network Wide Exclusion
- S2 - Z-WAVE Security Version 2
- S0 - Z-WAVE Security Version 1
- DSK - Device Specific Key. This is unique to every Z-WAVE S2 device

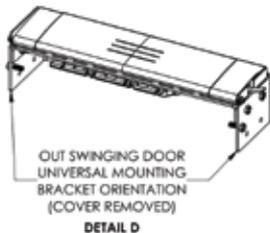
## LED AND SOUNDS

3 Yellow, 1 Chirp	Gate closed successfully
3 Green, 2 Chirps	Gate opened successfully
Alternating Green/Red	Gate did not move to commanded position
Blue every second	Device has entered include/exclude mode
Solid Red	If Pairing button is held for 10 seconds, Red LED will light and the lock will return to default settings. Use caution, this also removes it from the network.
Yellow Every 2.5 Seconds	Battery is charging.
3 Yellow, 2 Chirp (After Reset)	Reset successful (after pressing reset button)
3 Yellow, 1 Chirp (Security notification)	Unit is locked and detects an impact

## OUTWARD-SWINGING DOOR CONFIGURATION

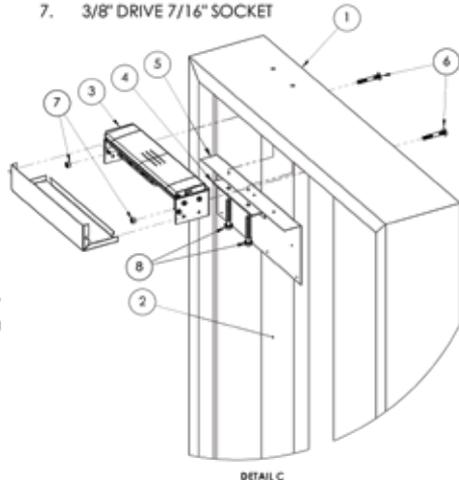
### HAVEN LOCKDOWN INSTALLATION INSTRUCTIONS:

1. FROM PACKAGING, REMOVE UNIVERSAL MOUNTING BRACKETS (X2) AND SCREWS (X4) FROM LOCKDOWN UNIT, ITEM (3). FLIP BRACKETS 180 DEGREES FROM SHIPPING ORIENTATION AND REINSTALL. REFER TO DETAIL VIEW D.
2. FOLD CREASE IN DRILL TEMPLATE, ITEM (5), ALONG INDICATED LINE FOR TOP OF FRAME STOP.
3. CORNER TEMPLATE, ITEM (5), WITH FRAME STOP ON DOOR FRAME, ITEM (1), AND ALIGN WITH EDGE.
4. TAPE TEMPLATE, ITEM (5), TO DOOR FRAME, ITEM (1).
5. USING THE 3/8" DIA. DRILL BIT, DRILL BLIND HOLES (X2) TO A 3" DEPTH INTO BOTTOM OF FRAME STOP ON DOOR FRAME, ITEM (1), FOR INSTALLATION OF LATCH BRACKET, ITEM (4).
6. USING THE 3/8" DRILL BIT, DRILL CLEARANCE HOLES (X2) THROUGH DOOR, ITEM (2), FOR INSTALLATION OF LOCKDOWN UNIT, ITEM (3).
7. REMOVE DRILL TEMPLATE, ITEM (5), FROM DOORWAY.
8. INSTALL LATCH BRACKET, ITEM (4), WITH SCREW ANCHORS (X2), ITEM (8), TO BOTTOM OF FRAME STOP ON DOOR FRAME, ITEM (1). DO NOT TIGHTEN ANCHORS TO FINAL TORQUE.
9. INSTALL LOCKDOWN UNIT, ITEM (3), WITH CARRIAGE BOLTS (X2) AND HEX NUTS (X2), ITEMS (6) AND (7), TO DOOR, ITEM (2). DO NOT TIGHTEN NUTS TO FINAL TORQUE.
10. PAIR TO LOCKDOWN UNIT, ITEM (3), AND TEST FITMENT OF LOCKDOWN UNIT WITH LATCH BRACKET, ITEM (4).
11. TIGHTEN SCREW ANCHORS (X2) AND HEX NUT (X2), ITEMS (8) AND (7), TO FINAL TORQUE.
12. FIT COVER TO LOCKDOWN UNIT, ITEM (3), AND TIGHTEN SCREWS (X2).



### TOOLS REQUIRED FOR INSTALLATION:

1. MASKING TAPE
2. BATTERY PACK DRILL & IMPACT
3. 3/8" DIA X 4" X 6" MULTI-PURPOSE DRILL BIT
4. 3/8" SQUARE DRIVE TO 1/4" HEX ADAPTER
5. 3/8" DRIVE RACHET
6. 3/8" DRIVE 9/16" SOCKET
7. 3/8" DRIVE 7/16" SOCKET



### \*\*\*NOTICE\*\*\*

THE HAVEN LOCKDOWN SYSTEM AND SUPPLIED LATCH BRACKET HARDWARE, ITEM (8), IS DESIGNED TO BE INSTALLED ONTO A STANDARD 2" DOOR FRAME BACKED WITH Poured CONCRETE. IF ATTEMPTING TO INSTALL ONTO HOLLOW DOOR FRAME, PLEASE USE THE HOLLOW DOOR FRAME HARDWARE KIT \*may be sold separately

8	SCREW ANCHOR, 3/8" X 3"	2
7	HEX NUT, 3/8-16	2
6	CARRIAGE BOLT, 3/8"-16 X 2-1/2"	2
5	TEMPLATE HAVEN LOCKDOWN	1
4	LATCH OUTSWING	1
3	HAVEN LOCKDOWN	1
2	DOOR	1
1	DOOR FRAME	1
ITEM NO.	DESCRIPTION	QTY.

### Hollow Door Frame Hardware Kit Non-Concrete Filled Install Instructions

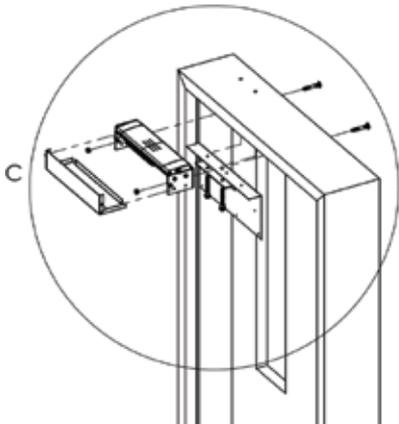
To install the bracket to a non-concrete filled steel door frame we suggest using 1/4" heavy duty toggle anchors.

Kit includes:  
 Two 1/4 Heavy Duty Flip Toggle  
 Two 1/4 x 1.5 inch hex head bolts  
 washers

Tools needed:  
 Drill with 1/2 steel bit  
 Two 1/4 fender washers

Instead of drilling a 3/8 inch pilot hole, as indicated in the concrete frame filled instructions, you will need to drill a 1/2 inch hole. Feed the toggle bracket through the lock bracket first, then through the hole in the frame, one side at a time.

Be sure the LockDown Bracket is lined up as described in the install template instructions and tighten bolts.



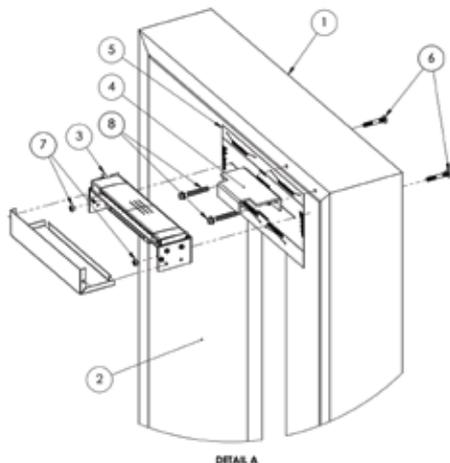
## IN-SWINGING DOOR CONFIGURATION

### HAVEN LOCKDOWN INSTALLATION INSTRUCTIONS:

- ALIGN TEMPLATE, ITEM (5), WITH INNER EDGE OF DOOR FRAME, ITEM (1).
- TAPE TEMPLATE, ITEM (5), TO DOOR FRAME, ITEM (1).
- USING THE 3/8" DIA. DRILL BIT, DRILL BLIND HOLES (X2) TO A 3" DEPTH INTO DOOR FRAME, ITEM (1), FOR INSTALLATION OF LATCH BRACKET, ITEM (4).
- USING THE 3/8" DRILL BIT, DRILL CLEARANCE HOLES (X2) THROUGH DOOR, ITEM (2), FOR INSTALLATION OF LOCKDOWN UNIT, ITEM (3).
- REMOVE DRILL TEMPLATE, ITEM (5), FROM DOORWAY.
- INSTALL LATCH BRACKET, ITEM (4), WITH SCREW ANCHORS (X2), ITEM (8), TO DOOR FRAME, ITEM (1). DO NOT TIGHTEN ANCHORS TO FINAL TORQUE.
- INSTALL LOCKDOWN UNIT, ITEM (3), WITH CARRIAGE BOLTS (X2) AND HEX NUTS (X2), ITEMS (6) AND (7), TO DOOR, ITEM (2). DO NOT TIGHTEN NUTS TO FINAL TORQUE.
- PAIR TO LOCKDOWN UNIT, ITEM (3), AND TEST FITMENT OF LOCKDOWN UNIT WITH LATCH BRACKET, ITEM (4).
- TIGHTEN SCREW ANCHORS (X2) AND HEX NUT (X2), ITEMS (8) AND (7), TO FINAL TORQUE.
- FIT COVER TO LOCKDOWN UNIT, ITEM (3), AND TIGHTEN SCREWS (X2).

### TOOLS REQUIRED FOR INSTALLATION:

- MASKING TAPE
- BATTERY PACK DRILL & IMPACT
- 3/8" DIA X 4" X 6" MULTI-PURPOSE DRILL BIT
- 3/8" SQUARE DRIVE TO 1/4" HEX ADAPTER
- 3/8" DRIVE RACHET
- 3/8" DRIVE 9/16" SOCKET
- 3/8" DRIVE 7/16" SOCKET



DETAIL A

### \*\*\*NOTICE\*\*\*

THE HAVEN LOCKDOWN SYSTEM AND SUPPLIED LATCH BRACKET HARDWARE, ITEM (8), IS

DESIGNED TO BE INSTALLED ONTO A STANDARD 2" DOOR FRAME BACKED WITH POURED CONCRETE. IF ATTEMPTING TO INSTALL ONTO HOLLOW DOOR FRAME, PLEASE USE THE HOLLOW DOOR FRAME HARDWARE KIT. \*may be sold separately



DETAIL B

8	SCREW ANCHOR, 3/8" X 3"	2
7	HEX NUT, 3/8-16	2
6	CARRIAGE BOLT, 3/8"-16 X 2-1/2"	2
5	TEMPLATE HAVEN LOCKDOWN	1
4	LATCH INSWING	1
3	HAVEN LOCKDOWN	1
2	DOOR	1
1	DOOR FRAME	1
ITEM NO.	DESCRIPTION	QTY.

### Hollow Door Frame Hardware Kit Non-Concrete Filled Install Instructions

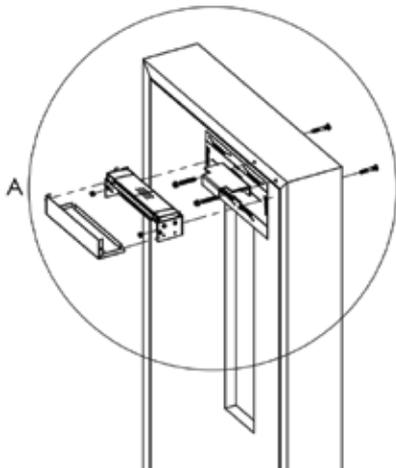
To install the bracket to a non-concrete filled steel door frame we suggest using 1/4" heavy duty toggle anchors.

Kit includes:  
 Two 1/4 Heavy Duty Flip Toggle  
 Two 1/4 x 1.5 inch hex head bolts  
 7/16 socket  
 washers

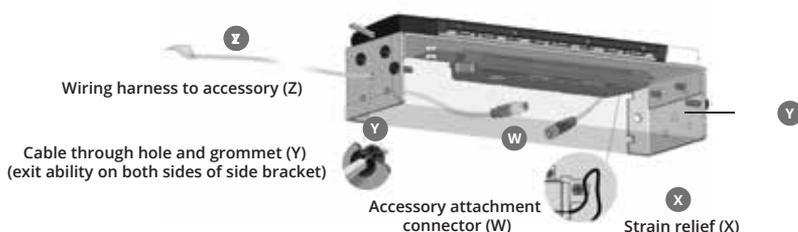
Tools needed:  
 Drill with 1/2 steel bit  
 Two 1/4 fender washers

Instead of drilling a 3/8 inch pilot hole, as indicated in the concrete frame filled instructions, you will need to drill a 1/2 inch hole. Feed the toggle bracket through the lock bracket first, then through the hole in the frame, one side at a time.

Be sure the LockDown Bracket is lined up as described in the install template instructions and tighten bolts.



## HARDWARE ACCESSORY INSTALLATION



IQ Lockdown is equipped with optional wired control capability to support accessories, such as egress, emergency lock (panic), motion sense and others. Each IQ Lockdown includes a pre-wired green egress button that can be detached at (W). The wiring harness is capable of being rewired to other commercially available peripherals. The wiring harness contains five conductors:

Conductor	Color	Description
Lock	(Brown)	Short this conductor to gnd/common to toggle the unit to the <b>locked</b> position
Unlock	(White)	Short this conductor to gnd/common to toggle the unit to the <b>unlocked</b> position
Gnd/common	(Blue)	Momentarily connect to Lock/Unlock for wired control
Gnd/common	(Black)	Momentarily connect to Lock/Unlock for wired control. Two conductors are provided for installation convenience of multiple accessories.
+3.3V	(Gray)	Power line connected to the 3.3V regulator in the lock. In battery operation, it is recommended to only use IQ Lockdown-approved accessories. In hard-wired power applications, it is less important to ensure a tight power budget for accessories.

- Lock and Unlock control inputs are designed for passive normally-open momentary-closed switches. Switch the control input (either Lock or Unlock) to gnd/common to control the lock state, and the lock responds on the leading edge of the connection.
- NOTE: If Lock or Unlock is unused, it is recommended to connect the unused wire to ground to stabilize the unused floating input.
- WARNING: Be careful to ensure the +3.3V connection can never be shorted to gnd/common at any time. This will significantly affect battery life.
- Possible accessories for this application include a panic button, egress button, and motion sensor. Instructions for wiring each device will be further detailed in that accessory manual. It is possible to include your own wall switches and accessories, but contact support to ensure compatibility.

### Setup

- Remove Lockdown cover to access the inside of the unit.
- Ensure the female side of the wiring harness and connector (W) has proper strain relief (X). A cable tie, or equivalent, is adequate.
- Install the grommet (Y) into one of the holes in the enclosure on the left or right side of the unit.  
NOTE: The backside of lockdown against the door is open-faced. So, it is possible to run wire into and through the door (if supported) for a clean installation.

- Thread the wiring harness (Z) through your installed grommet before any accessory connection.
- Use proper conduit and flex joints across the door hinges to securely route the wire to your accessory mounting location.
- If you need to lengthen the cable consider these options.
  - Cut the harness (Z) to a few inches past the male connector (W) and splice in your own wiring cables inside the lockdown unit. There is room for an approved electrical terminal block and/or small enclosure, if necessary. DO NOT cut the female side of the wiring harness before the connector (W). This ensures that you have the option to update the wiring harness in the future by replacing the male side of the harness (Z).
  - Wire the harness (Z) out of the lockdown enclosure as normal. Splice your own cable inside your own electrical box or inside one of the accessories, which often have room enough for wire splicing.
- Strip the necessary wires of the harness according to the wiring diagram of the accessory.
- Connect the accessory to the proper wires, ensuring a strong connection.
- Install strain relief inside the accessory as needed.
- Double check your wiring harness from inside the unit to the accessory(ies).
- After all other connections have been made, complete the connection at connector (W) by pushing together the keyed connector and screwing down the threaded lock-nut for a solid mechanical connection.
- Test all accessories
- Replace the lockdown cover.

## GENERAL NOTES ON IQ Lockdown

### Z-WAVE Range

IQ Lockdown uses Z-Wave wireless technology to communicate to its control devices like the Smartphone App, and Hub. Z-WAVE has a theoretical range of 100m (328 ft), but that is all dependent on the environment. If any object is between the controller and the lock, the effective range of the Z-WAVE signal will drop. When you use Z-WAVE, you should assume the effective range is 50 meters (160 ft.)

### Layered Security

The IQ Lockdown is a layered security device. We advise customers to use IQ Lockdown as a supplemental layer in their security. Relying on a single device or component will lessen the security of your school or business. IQ Lockdown should be part of a larger security system. It is not a total solution. We suggest using video cameras, motion sensors, alarm monitoring, and vibration sensors.

### Personal Security

IQ Lockdown only works as well as its user. Taking personal responsibility for your own safety is very important to make IQ Lockdown work for you. Our product can't prevent you from sending a guest pass to the wrong person. IQ Lockdown can't prevent your phone from being stolen and cannot keep your password secure. Being proactive and responsible is the best way to protect you and your facility.

### DISCLAIMER

Use of this guide at your own risk. HavenLock Inc and its parent or partner companies are not liable for any damages to property or bodily injuries that occur during or after installation. HavenLock Inc assumes no responsibility in providing the correct tools and accessories needed for installation unless otherwise noted. Use proper protective gear when completing the steps detailed in this guide. This guide is simply suggestive and not in any way authoritative. Always use your own best judgment. Incorrect installation or lack of safety precautions can lead to serious injury or death for you or anyone around the installation area. If you are not comfortable installing IQ Lockdown, we advise you to seek out a professional skilled worker with construction experience to assist you.

## TROUBLESHOOTING

Below are some common issues you might encounter while installing or operating your **IQ Lockdown**. If you do not see your issue below, contact us at [support@havenlock.com](mailto:support@havenlock.com).

If the unit fails to lock/unlock you will need to check the straps and screws nearest the servo motor. Make sure your nylon strap is not bunched up within the unit. Manually open the locking gate and pull/tug on the open gate to stretch or flex the nylon straps. They could be kinked up in the gate or one strap could be too tight and need to be loosened. You can also take off the gate cover and pull the straps with your fingers. This usually evens out the nylon and allows the servo motor to reach its locked position. Alternatively, also make sure that the screw closest to the servo motor is not too tight. Sometimes if the screw closest to the servo (the left side of the unit when it is facing the door) is overtightened, the servo can fail to lift when you attempt to lock it via the smartphone app or key fob. If the unit bows in the wingtips, it is a good indication you over tightened the lock.

Below are some common issues you might encounter while installing or operating your IQ Lockdown Z. If you do not see your issue below, contact us at [support@havenlock.com](mailto:support@havenlock.com).

### IQ Lockdown Issues

<p><b>IQ Lockdown will not turn on or no indication of power.</b></p>	<p>Try resetting the device with the pin hole reset button. This action also generates an LED flash and beep. Make sure you have fully charged the unit ( Note: Backup batteries are no longer required for IQ Lockdown). Simply, toggle the gate manually. You should see an LED flash and a beep. If none of this works, please contact us at <a href="mailto:support@havenlock.com">support@havenlock.com</a>.</p>
<p><b>IQ Lockdown will not fit my door or is not compatible with my frame.</b></p>	<p>Be sure to visit our detailed installation guide at <a href="https://install.havenlock.com">https://install.havenlock.com</a> that will walk you through various scenarios involving uncommon door situations. In most cases this fixes the situation, but if you still need help, contact support.</p>
<p><b>How do I turn IQ Lockdown off?</b></p>	<p>HAVEN is designed to be "always on" so that it is ready to receive commands from your Z-WAVE network. It automatically uses sleep and low-power modes to achieve long built-in battery life.</p>
<p><b>I can't get the thumb press to work.</b></p>	<p>The thumb press is designed to be pressed by an adult to prevent false locking by children. Pulling straight down on the thumb press will activate the locking gate.</p>
<p><b>I need to reset my IQ Lockdown. Can I perform a factory reset?</b></p>	<p>See Z-WAVE operation section for more details. Please use this procedure only when the network primary controller is missing or otherwise in-op.</p>
<p><b>Pairing troubleshooting</b></p>	<ol style="list-style-type: none"> <li>1. The blue light should be flashing once per second when the device is in discovery mode.</li> <li>2. If you controller supports "Smart Start" use that.</li> <li>3. If you controllers asks about security choose "S2" if it is supported. Otherwise it can use "S0" if needed.</li> <li>4. Placing the unit in "Sleep/Shipping Mode" (see manual) wipes the pairing from the unit. However, only do this if your controller will not exclude your device through the normal means.</li> <li>5. Not all Z-Wave controllers are certified or their certification has lapsed. Please check our supported devices at <a href="https://products.z-wavealliance.org/">havenlock.com</a>. You can search a product's certification status here - <a href="https://products.z-wavealliance.org/">https://products.z-wavealliance.org/</a></li> </ol>
<p><b>Can I use the Haven App on IQ Lockdown?</b></p>	<p>No, IQ Lockdown requires a Z-Wave controller (not provided by Haven) to work properly. In many cases, those controller platforms have mobile apps and other integrations that can operate IQ Lockdown, once connected.</p>
<p><b>What if I lose my DSK (Digital Security Key)</b></p>	<p>This is your unique security key for your lock. Haven will never ask for your security key. Although haven makes no representation that we will be able to restore your security key, contact support and we will do our best effort to discover the key.</p>

## IMPORTANT SAFEGUARDS



**Charge low batteries immediately.** Long life internal rechargeable LiPo battery. Main battery lasts up to 2 years on a single charge under normal use. Charge via USB cable.



**Protect your password.** You are responsible for your own security. *IQ Lockdown* is not a replacement for personal responsibility. Do not share your password with anyone you do not trust or know well. To be safe, do not share it with anyone.



**Who is getting access?** See the Z-WAVE provisioning steps.



**Make sure to turn on notifications** in your Zwave controller app as well as your smartphone settings. This will help you keep track of any changes that occur to your IQ Lockdown.

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Manufactured by HavenLock Inc. for Johnson Controls  
Nashville, TN

