

INSTALLATION GUIDE



LOCKLY **GUARD**™ **DEFENDER 238LE**

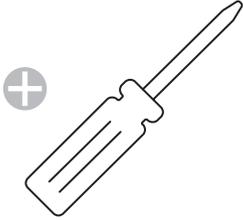
EXIT TRIM EDITION

For commercial use & professional installation

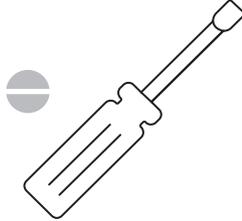
Preparation

To complete the installation you will need:

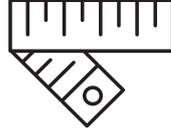
Phillips Screwdriver



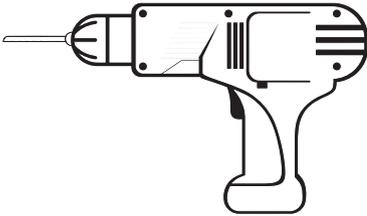
Flathead Screwdriver



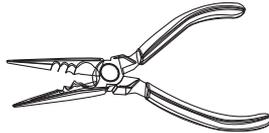
Tape measure or ruler



Optional



Screwdriver with drill bits



Pliers

Drilling maybe required to install this lock. If you are installing your lock on a brand new door, a drill and door hole saw may be required if there are no holes prepared for lock installation. Use provided template to bore holes on door.

Preparation

PGD238LE is compatible with the following Push Bar Devices.

- VON DUPRIN 98/99/98-F/99-F EO, DT Rim Push Bar Devices.
- VON DUPRIN 98/9957/57-F EO, DT Series 3 Point Latching Push Bar Devices.
- VON DUPRIN 9827/9927/9827-F/9927-F EO & DT Series Vertical Rod Push Bar Devices.
- VON DUPRIN 9875/9975/9875-F/9975-F Series Mortise Push Bar Devices.
- Or other Rim/Mortise/Latching Push Bar devices that match the size of the above door hole.

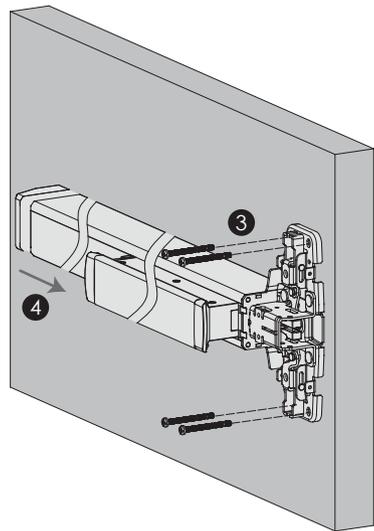
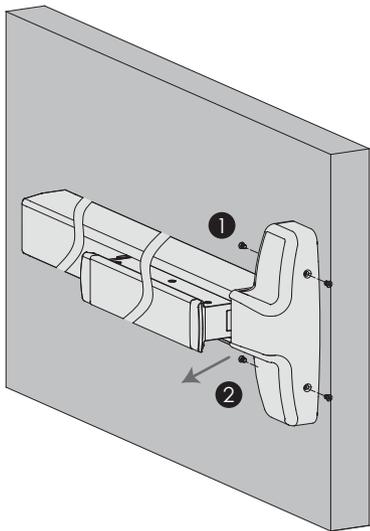
If you have a Push Bar from an existing installation, you must remove the Push Bar before installing Defender Exit Trim Edition (238LE). You will reinstall the push bar after 238LE installation has been completed.

- 1 Remove the four screws for the cover on both sides using a screwdriver.
- 2 Remove the decorative cover upward.
- 3 Remove the four front and rear fixing screws using a screwdriver.
- 4 Push in the direction of the arrow to remove the escape lever.



QUICK TIP

For the removal procedure of the push bar, refer to the push bar installation manual.



IMPORTANT

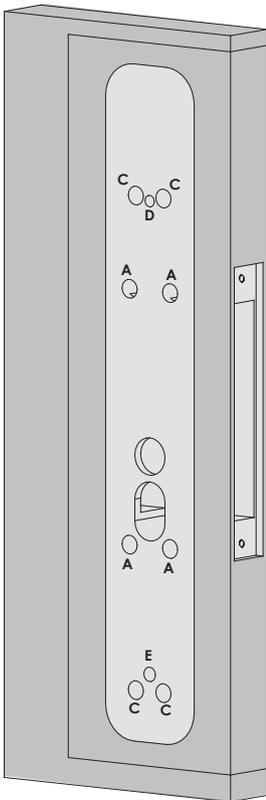
If your door has an installed Mortise Push Bar Device, do not remove the lockset.

Preparation

Included in the package is a borehole drilling template for Mortise Push Bar Device or Latch Push Bar Device. Please select the corresponding drilling template to bore new holes based on your door type.

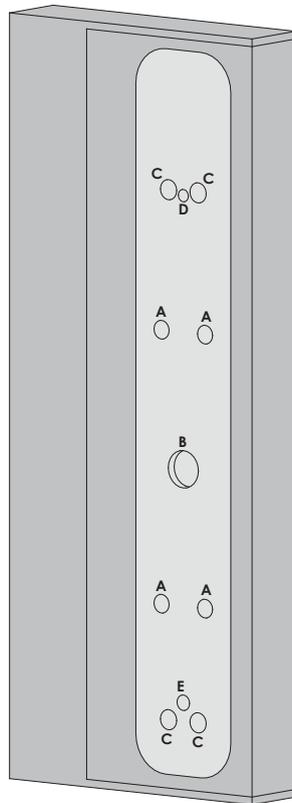
For Mortise Push Bar Devices

- 1 Measure door and drill hole using this template.
- 2 Align the door drilling template to the Mortise Push Bar holes A before drilling new C, D and E holes.
- 3 To ensure smooth installation, please expand four holes A to $\phi 13\text{mm}$ and hole B to $\phi 26\text{mm}$.



For Latch Push Bar Device

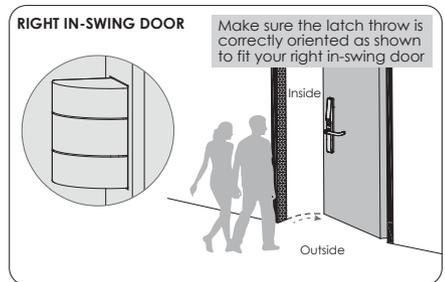
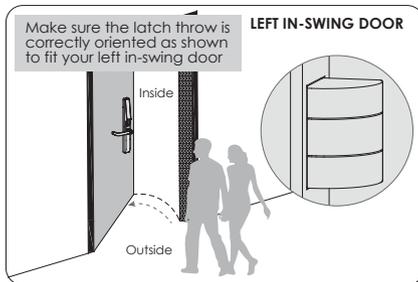
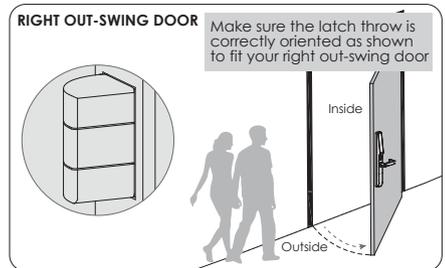
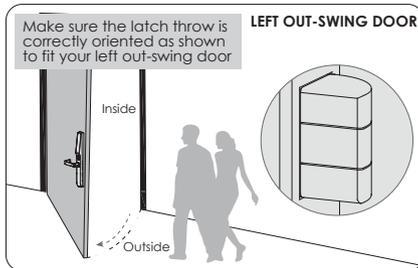
- 1 Measure door and drill hole using this template.
- 2 Align the door drilling template to the Latch Push Bar holes A before drilling new C, D and E holes.
- 3 To ensure smooth installation, please expand four holes A to $\phi 13\text{mm}$ and hole B to $\phi 26\text{mm}$.



Step 1

DETERMINE DOOR OPENING DIRECTION

There are 4 common door opening directions, the lockset configuration as shown on each diagram below corresponds to the respective door opening direction.

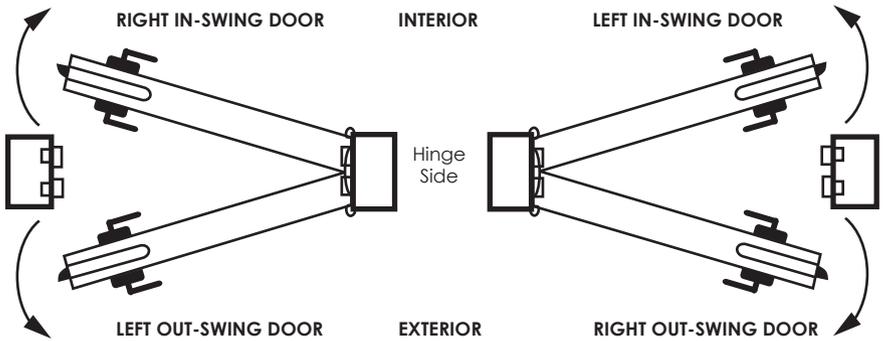


WARNING

This lock is designed for 40-70mm Wooden or Aluminium Door or Aluminium Thermal Barrier Door. If your door is outside the range of the list above please contact our Customer hotline: (855) 562-5599

Before installing the exterior assembly, make sure you have already adjusted your door handle (Step 2) and identified the latch throw orientation according to door opening direction.

The lock ships with handle default for right in-swing or left out-swing door. Check the diagram below if you are unsure of your door orientation.



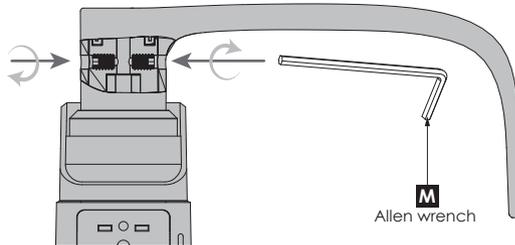
No need to change door handle orientation. Skip Step 2.

LEFT-IN SWING and RIGHT OUT-SWING DOORS require changing the door handle orientation. Continue to follow Step 2 to change exterior and interior door handle orientation.

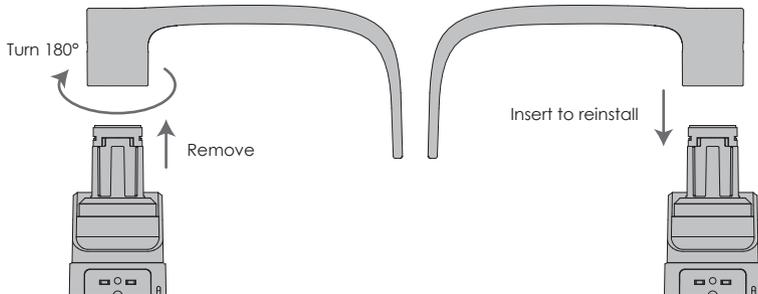
The diagram below shows how to shift the door handle from right to left direction. The default setting of the handle is for right swing door. You do not need to change direction if you have a right swing door.

Change the handle direction of the Exterior Assembly

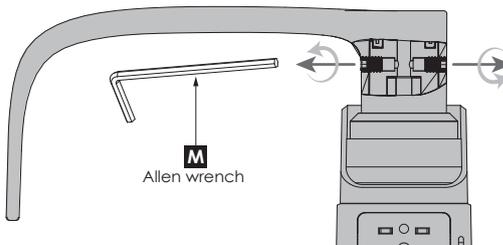
- 1 Use an Allen wrench **M** to loosen screws on both sides of the handle. Twist clockwise to loosen



- 2 Remove the handle and rotate it 180 degrees before fixing it back to the exterior assembly.



- 3 Use an Allen wrench **M** to tighten screws on both sides of the handle. Twist counterclockwise to tighten.



1. Installing Batteries

- 1 When installing the battery for the first time, use a Phillips screwdriver to loosen the screws counterclockwise.



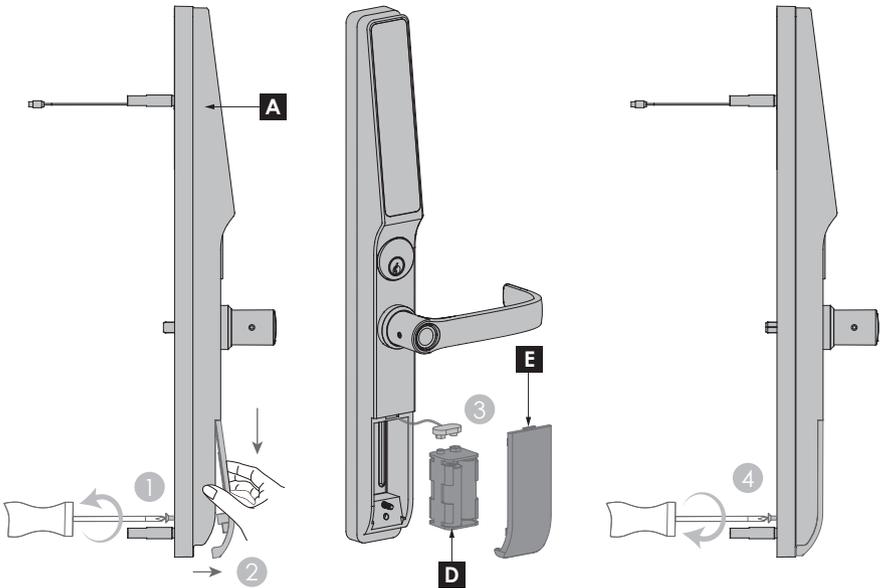
Just loosen the screw and do not remove.

- 2 Slide and pull the battery cover outward to remove.
- 3 Take out the battery compartment and detach from the terminal connector. Install 4 AA battery before attaching to terminal connector.



Handle carefully and avoid damaging the wiring.

- 4 Insert the battery compartment to the exterior assembly. Close the battery cover and fasten the screws clockwise using a screwdriver.



2. Exterior Cover and Spindle accessories for Mortise Push Bar Device or Latch Push Bar Device are provided in the packaging accessories:

Mortise Push Bar Device uses Exterior Cover **V** and Spindle **T1**.

Latch Push Bar Device uses Exterior Cover **V1** and Cross Spindle **T**.

1 For Mortise Push Bar Device
Install 4 Slotted Barrel extensions **W** on Exterior Cover and tighten.

2 For Latch Push Bar Device
Install 4 Slotted Barrel extensions **W** on Exterior Cover and tighten.

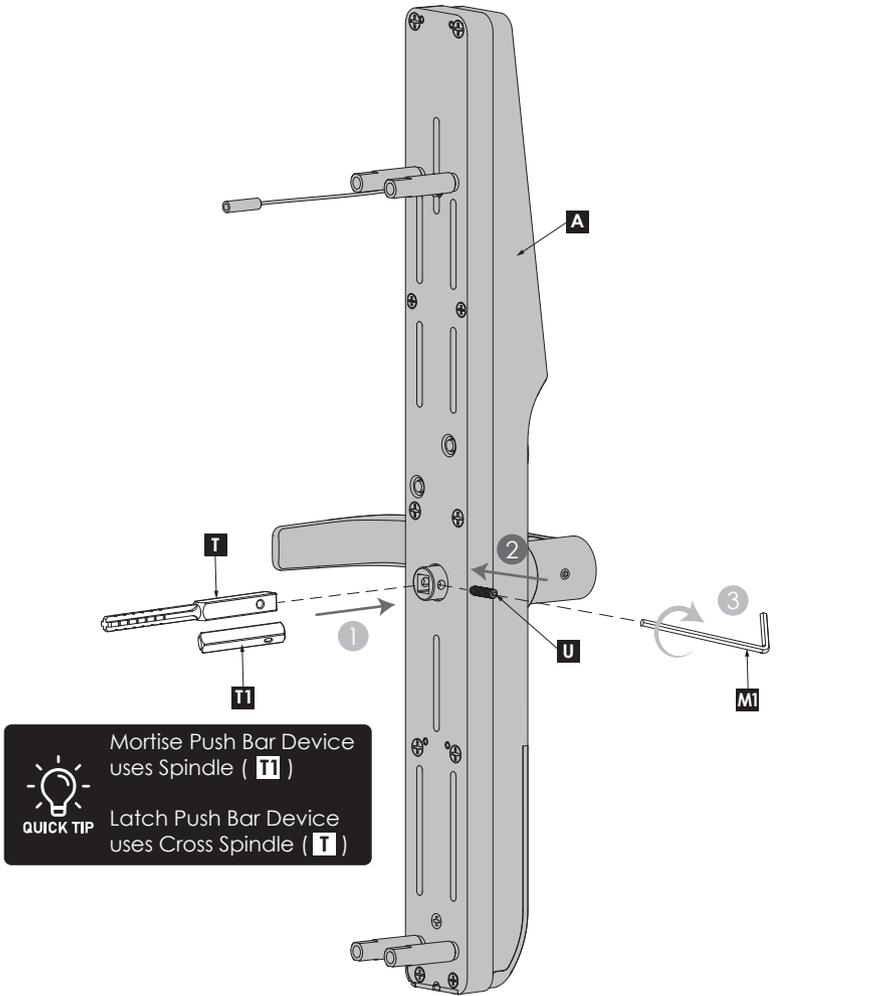
QUICK TIP Spindle **T1** does not require clipping.

QUICK TIP Measure door thickness and cut off the Cross Spindle (**T**). If door thickness is 70mm, you don't need to cut the spindle.

1. Spindle

Select spindle **T** / **T1** and insert to the exterior assembly. Ensure the Spindle is trim according to the door thickness. **Refer back to Step 3.2 for instructions on selection and trimming**

Align screw **U** to the exterior assembly screw hole position and tighten clockwise using the Allen wrench **M1**.



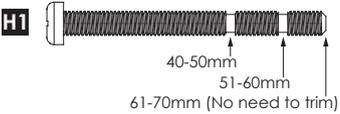
2. Push Exit Bar, Cover Plate **V / **V1**.**

Install exterior cover plate **V** / **V1** on to door. Ensure the slotted barrel extensions **W** are properly threaded through the door holes. At the same time, align the 4 holes of the Push Exit Bar with the exterior cover plate and secure them with **H1** screws. Trim **H1** according to your door thickness. Screw **H1** locks through Push Exit Bar hole position with 4 slotted barrel extensions **W** on exterior cover plate.

!
IMPORTANT

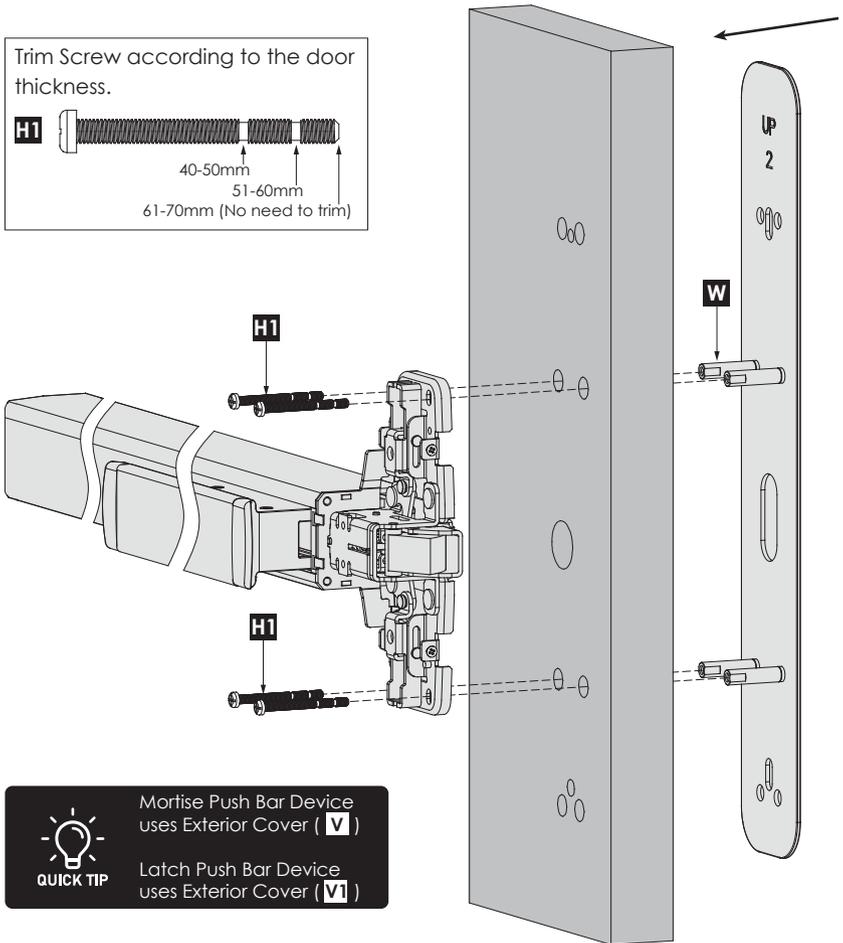
For the selection of plate (**V** / **V1**), please refer back to Step 3.2
For the installation steps of the push bar, refer to the push bar installation manual.

Trim Screw according to the door thickness.



H1

40-50mm
51-60mm
61-70mm (No need to trim)



💡
QUICK TIP

Mortise Push Bar Device uses Exterior Cover (**V**)
Latch Push Bar Device uses Exterior Cover (**V1**)

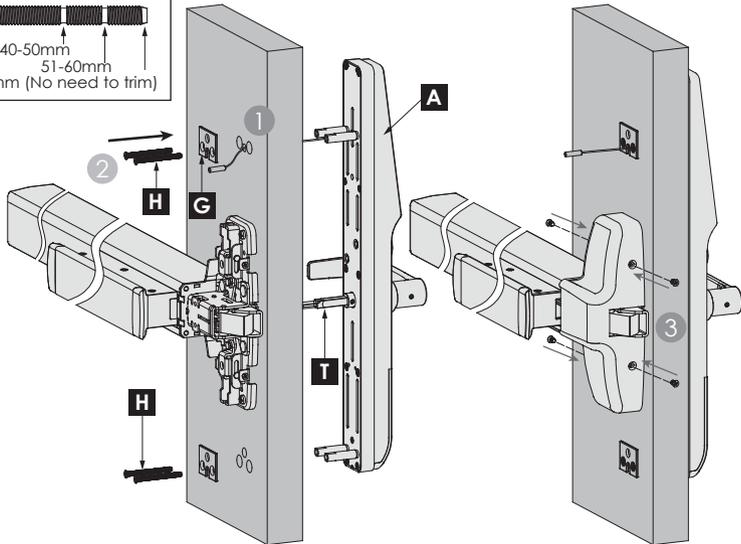
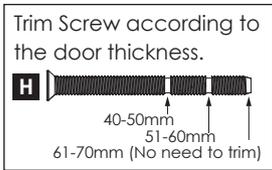
3. Exterior Assembly

- 1 Install the exterior assembly onto door. Make sure the spindle, cables and rods are routed correctly through the holes in the door. Secure with screw **H**.
- 2 Install top and bottom mounting blocks.

IMPORTANT Bluetooth receiver connection plug must pass through the door hole.

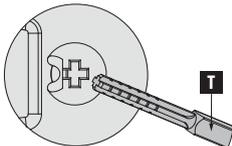
- 3 Install push exit bar decorative cover and secure with screws on both sides.

IMPORTANT Before installing the cover, check whether the lock can be opened and closed normally.



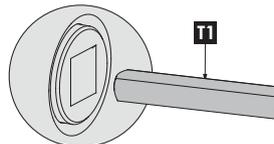
For Latch Push Bar

When installing exterior assembly, Spindle **T** is inserted into the cross slot of the Push Exit Bar.



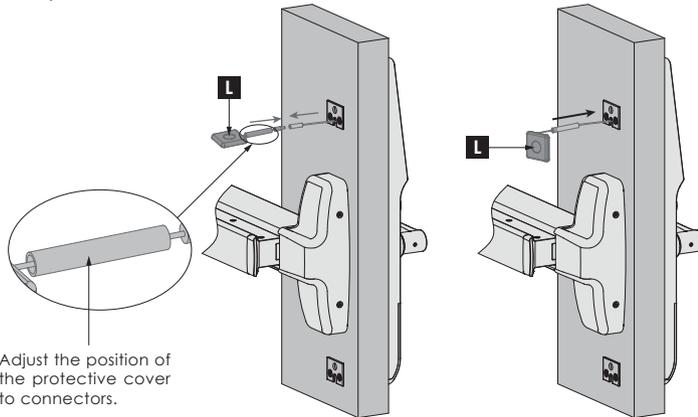
For Mortise Push Bar

When installing the exterior assembly, Insert the Spindle **T1** into the square shaft.



4. Bluetooth Receiver, Bottom Screw Cover

- 1 Connect Bluetooth receiver **L**. Rotate plugs to tighten cable connection. Adjust the protective cover to the cable connector to make sure that it is not exposed.



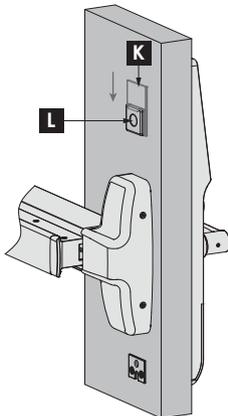
Adjust the position of the protective cover to connectors.



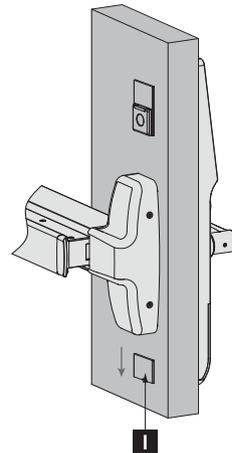
Bluetooth receiver can enhance the signal coverage of DEFENDER smart lock and can improve the stability of signal transmission. Please ensure to install it correctly according to the above guidelines. Do not fold or forcefully pull the signal cable during installation.

2 Install Bluetooth receiver

Remove the adhesive tape at the back of Bluetooth receiver **L** and install under mounting block. Mount the Bluetooth plate **K** on the groove of the top block to secure the Bluetooth receiver.



- 3 Slide and insert the screw cover at bottom block.

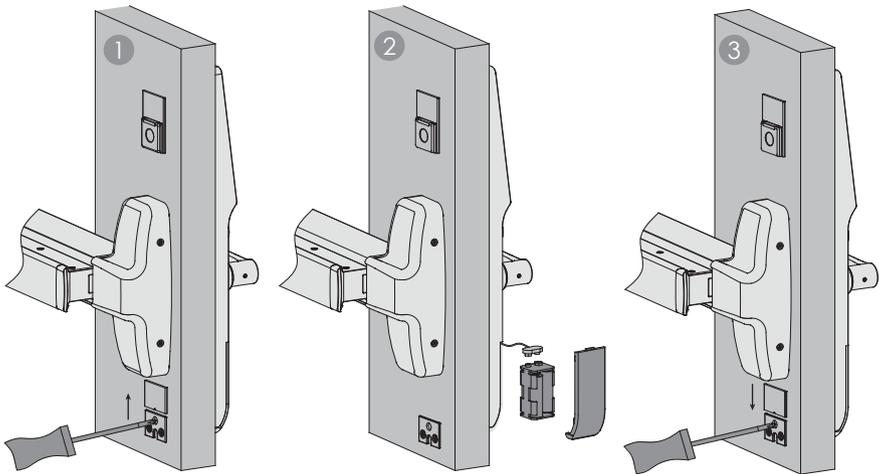


Step 5

INSTALL BATTERIES

Open the battery compartment cover and insert **4 AA alkaline battery** as shown below.

- 1 Use a screwdriver to push the back screw cover up then loosen the screw (do not remove).
- 2 Remove the battery cover, carefully unplug the terminals of the battery compartment then install the batteries.
- 3 Plug the terminal of the battery and return the battery compartment inside the exterior assembly and secure with the battery cover. Fasten the screw clockwise using a Phillips screwdriver and return the screw cover.



- Make sure the batteries are correctly oriented.
- Replacement of batteries does not affect programmed data.
- Replace only with new batteries. **DO NOT mix with used batteries.**



IMPORTANT

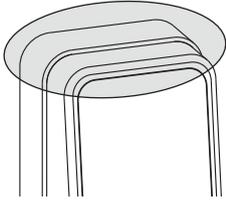
Defender will automatically sync with the Wi-Fi hub. If you are using it offline when batteries are replaced, connecting the smart lock to your smartphone App is required to sync Defender clock., connecting the smart lock to your smartphone App is required to sync Defender clock.

If you have not yet downloaded the app, visit: LocklyPro.com/app

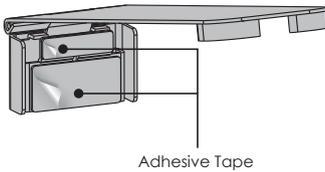
Step 6

INSTALL TOUCHSCREEN COVER

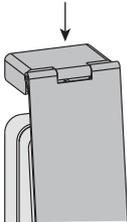
If your door lock is located in a harsh, sun-exposed area, it is highly recommended that you install the included touchscreen cover.



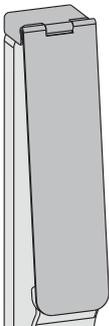
- 1 Clean the surface of the lock's exterior assembly. Ensure it is dry and dust free.



- 2 Remove the paper layer off the adhesive tape.



- 3 Align the touchscreen cover to the center of the lock. Ensure it fully covers the screen area. See illustration.



- 4 Securely fasten to the top of the lock's exterior assembly.

You have completed the Lockly Guard physical lock installation. To enable live monitoring and remote control, you will need to setup the included Link Plus and pair it with the Lockly Guard Exit Trim and door sensors.

Before connecting Link Plus, download the LocklyPro app on your smartphone. It's required to finish setup and to set (pair) the connection between hub and lock.

**Scan or visit
locklypro.com/app**



Step 8

SET UP LINK PLUS

To set up Lockly Guard, choose an appropriate location for the Link Plus for optimum performance (see below). For optimum connectivity, it is recommended that the hub be no further away from the lock than 30 feet (9 meters).

During the setup process position yourself between the lock and the Link Plus Wi-Fi Hub—ideally no more than 30 feet (9 meters) apart. Ensure your iOS or Android device has both Bluetooth and Wi-Fi enabled.

Lockly Guard

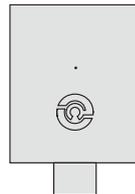


You

*Using an iOS or Android™
Device with Bluetooth & Wi-Fi enabled*



Link Plus



30 Feet (9 meters)

Distance Between

TIP: Link Plus requires a strong wireless signal for optimal performance. Make sure Link Plus will be installed in a location with a strong 2.4 Ghz wireless signal. Sometimes distances between Wi-Fi hub and lock can vary due to circumstances. If you are having difficulty setting up optimal range of 30/ft or less, we're here to help. Call our customer care team: (855) 562-5599, or visit locklypro.com/support for suggestions and troubleshooting tips.

Plug Link Plus into the 5V 1A USB AC adapter and plug the AC adapter to your wall socket.



USA Outlet Shown



LED Indicator is located next to the Setup Button

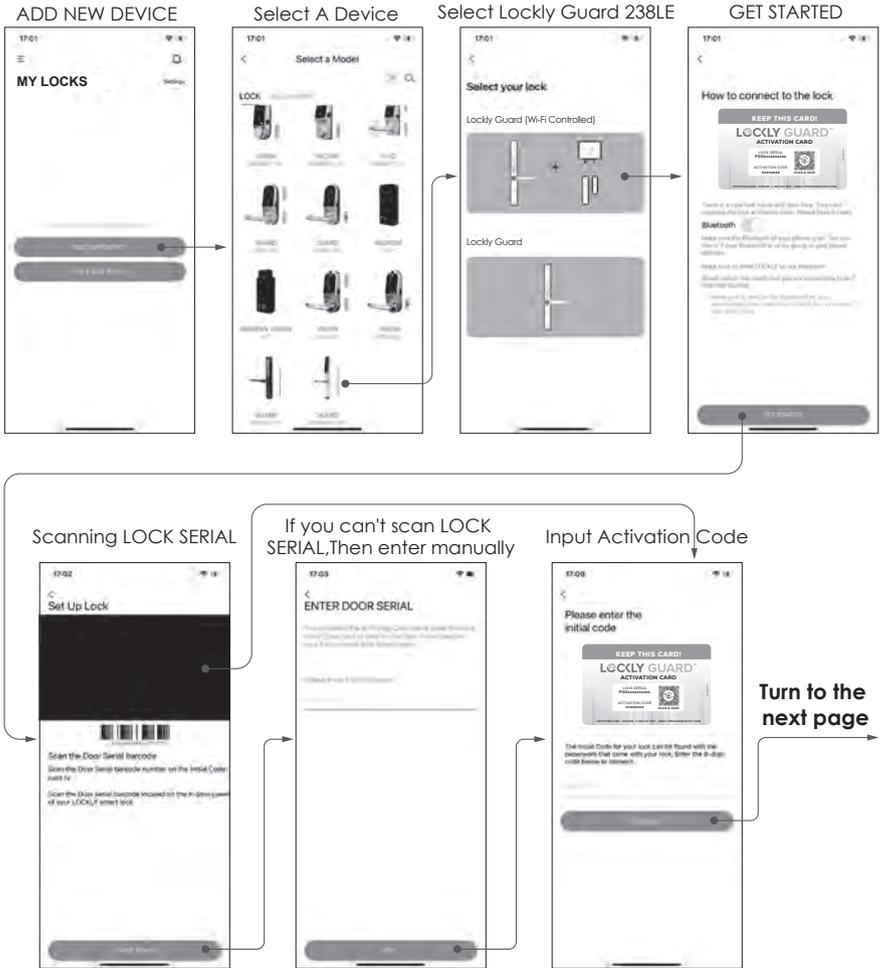
A **GREEN** LED indicator light will flash slowly to indicate that the Wi-Fi Hub is ready to connect.

Once you have confirmed that Link Plus is ready to connect to your lock, open the LocklyPro App from your smartphone. **Make sure you are standing between Link Plus and Lockly Guard**, then **Add New Device** and follow the on screen instructions.

Step 9

CONNECT LOCKLY GUARD

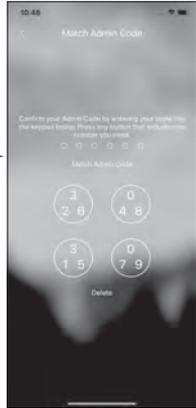
The App will take you through the following steps, make sure the smart lock has been properly installed. You will need your activation card that is included in the box to proceed.



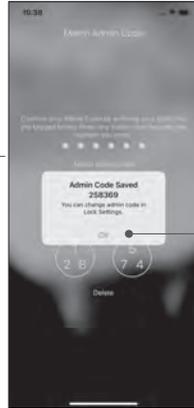
Set the Admin Code



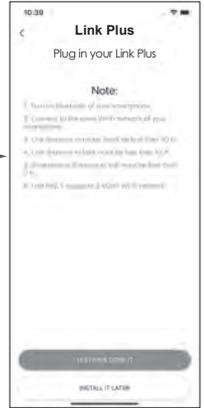
Confirm lock password



Password setting OK



Plug in your Link Plus and Click "YES"



Set Wi-Fi



Click "Yes" when the green light is on



Successfully Added



**Congratulations!
Lockly Guard is
now set up.**

**You may proceed
to Add the Door
Sensors.**

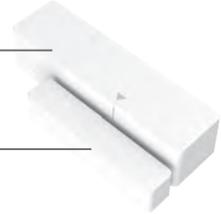
Lockly door sensor is based on bidirectional RF433.92MHz and Lockly 2.0 proprietary encryption, providing communication reliability, stability, and better security.

It is simple and very easy to install anywhere and it only uses AAA battery for long and optimal operation. Door Sensor can provide the ability to verify that your door is securely closed and not ajar. It also sends push notifications to your phone whenever the door unlocks or locked.

The Door Sensor comes in two parts. Depending on your door orientation, the door sensor will be mounted in different ways.

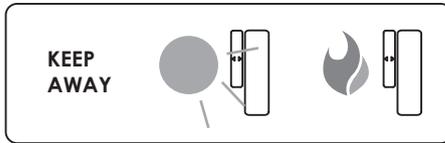
Part 1 - Door Frame Sensor

Part 2 - Door Sensor Magnet



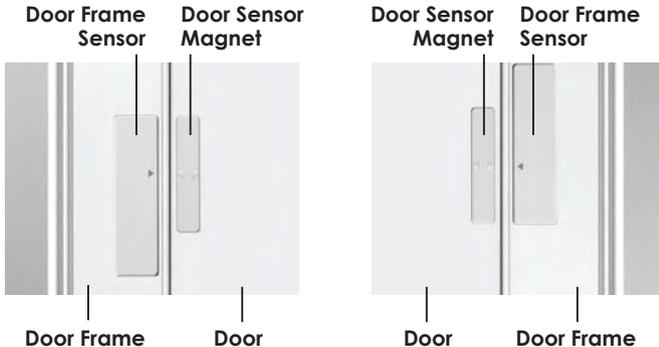
Preparation

Make sure you install the Door Sensor indoors on a clean and dry surface. Gently wipe the surface of your door and door frame where you wish to install the Door Sensor and make sure it's dry before installing. **DO NOT INSTALL YET.**

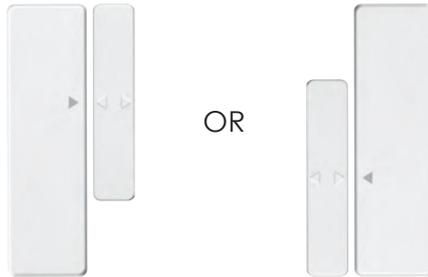


Keep the Door Sensor away from direct sunlight, high heat locations and large metal objects that may interfere with wireless signals.

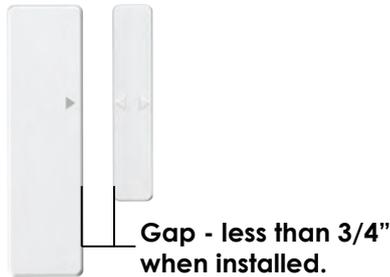
The optimal location to install the Door Sensor is on the upper corners of your door, away from the reach of children and pets.



When you are installing the Door Sensor, make sure the arrows on the Door Sensor is placed next to the arrow from the Door Frame Sensor.

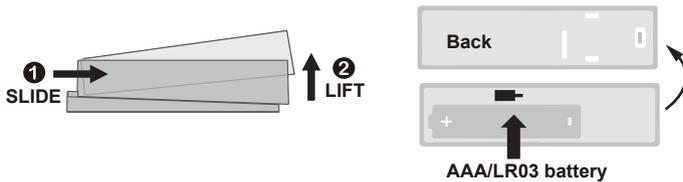


When installed on your door, the distance between the Door Sensor and the Door Frame Sensor must be less than 3/4" in order for the sensor to work.



Install the battery

Open the door sensor as shown, put in 1 AAA battery, please pay attention to the positive and negative poles of the battery.

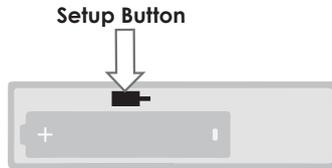


Slide and Lift to remove cover to replace the AAA/LR03 battery.

Pair the Door Sensor

Usually, the Door Sensor is pre-paired with the lock and you do not need to manually pair it. If you need to pair it again, follow the following steps.

In the LocklyPro Commercial app, go to Settings>Remote Control/Wireless Accessories, select add New Sensor. Lockly continuously optimizes user experience, please operate according to the actual menu on the app. Install the Door Sensor battery according to the prompt on the app interface. The blue light on the Door Sensor will blink for three minutes until it enters the pairing mode. Please press the setup button three times within one second. The blue light of the Door Sensor will on for 2 seconds and then it will stop blinking to enter pairing mode. Place door sensor near the sensor magnet. Once the door sensor detects sensor magnet, it flashes a blue light and pairing is completed.



If the pairing is unsuccessful, reinstall the Door Sensor's battery and re-enter the pairing mode as described above. Mount the Door Sensor and Sensor Magnet once pairing is successful.

Note: After pairing the wireless door sensor with the device, you will need to delete the door status sensor stored in the Settings before pairing the wireless door sensor with other devices again.



- (1) Do not allow the battery to corrode or leak as this may cause permanent damage to the product.
- (2) Make sure to insert battery on correct polarity as shown inside the battery compartments.
- (3) Do not use rechargeable batteries.
- (4) When battery is drained, do not dispose with normal household waste. Dispose via suitable recycling center. DO NOT BURN.

FCC Warning:

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.

NOTE 1: 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.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. It should be installed and operated with minimum distance 20cm between the radiator & your body.

IC WARNING

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

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

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

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

IC Radiation Exposure Statement

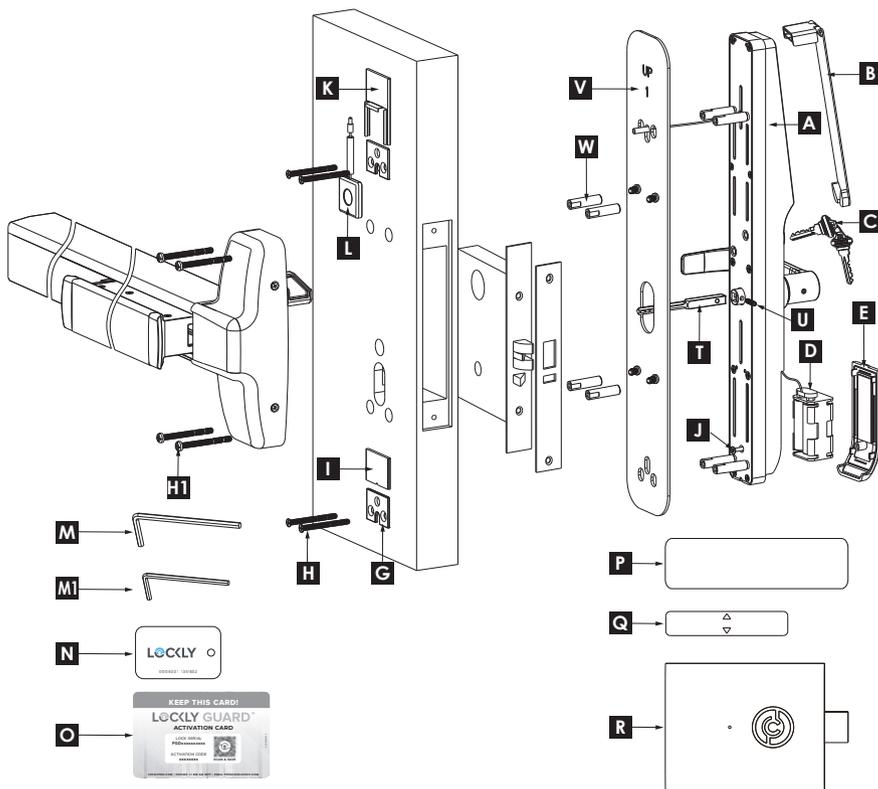
This equipment meets the exemption from the routine evaluation limits in section 2.5 of RSS-102. It should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.

Cet équipement est conforme à l'exemption des limites d'évaluation habituelle de la section 2.5 de la norme RSS-102. Il doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et toute partie de votre corps.



WARNING: This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

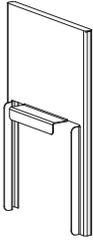
INSTALLATION OVERVIEW AND PARTS LIST



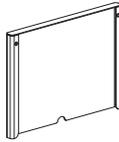
Parts List

Labeled As	Description	M	Allen Wrench M5 (x1)
A	Exterior Assembly	M1	Allen Wrench M4 (x1)
B	Touchscreen Cover	N	RFID Key Tag (x3)
C	Keys (x2)	O	Activation Card
D	Battery Box	P	Door Sensor
E	Battery Cover	Q	Door Sensor Magnet
G	Mounting Block (x2)	R	Link Plus
H	Screw KM5x52(x4)	T	Cross Spindle
H1	Screw PM5x55(x4)	T1	Spindle
I	Bottom Screw Cover	U	Machine screw M4
J	Battery Cover Screw	V	Exterior Cover Plate 1
K	Bluetooth Mounting Plate	V1	Exterior Cover Plate 2
L	Bluetooth Receiver	W	Slotted Barrel extensions (x 4)

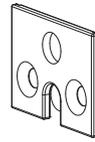
INSTALLATION OVERVIEW AND PARTS LIST



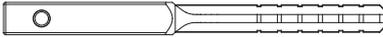
K
Bluetooth
Mounting Plate
(x1)



I
Bottom Screw
Cover (x1)



G
Mounting Block
(x2)



T
Cross Spindle (x1)



T1
Spindle (x1)



U
Machine screw M4 (x1)



M
Allen Wrench M5 (x1)



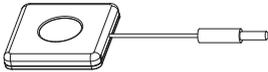
M1
Allen Wrench M4 (x1)



H
KM5x52mm
Escutcheon Screw



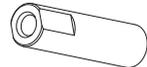
H1
PM5x55(x4)
Escutcheon Screw



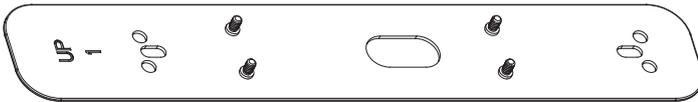
L
Bluetooth
Receiver (x1)



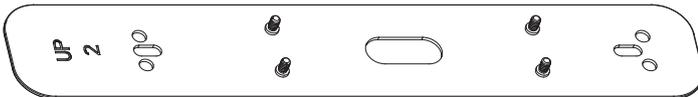
C
Key (x2)



W
Slotted Barrel
extensions (x 4)



V
Exterior Cover
Plate 1 (x1)



V1
Exterior Cover
Plate 2 (x1)

For digital versions and instructional videos, please visit the following link: **LocklyPro.com/support**

LOCKLY PRO™

TOTAL ACCESS SOLUTION



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USA Patent No. US 9,881,146 B2 | USA Patent No. US 9,853,815 B2 | USA Patent No. US 9,875,350 B2 | USA Patent No. US 9,665,706 B2 | USA Patent No. US 11,010,463 B2 | AUS Patent No. 2013403169 | AUS Patent No. 2014391959 | AUS Patent No. 2016412123 | UK Patent No. EP3059689B1 | UK Patent No. EP3176722B1 | Other Patents Pending

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