

Installation Instructions

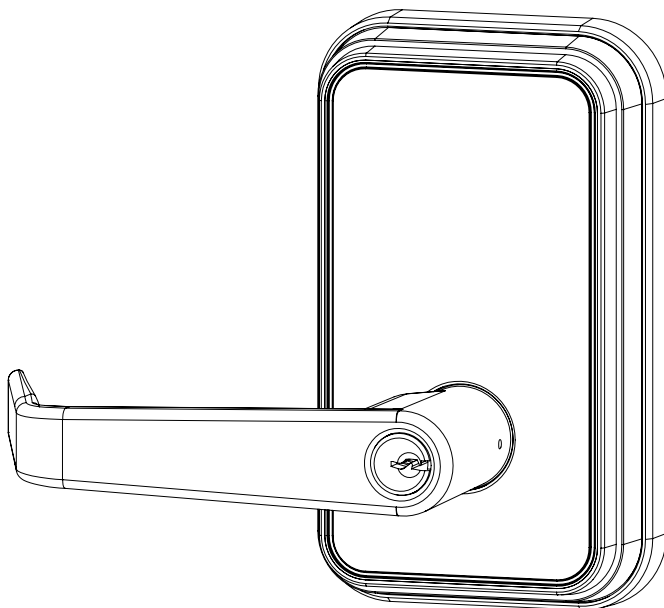
SARGENT

ASSA ABLOY

LNK Series

LNK100 Mortise Lock

with Aperio® Technology



WARNING

This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.



WARNING

Attention Installer: Improper installation may result in damage to the product and void the factory warranty. Changes or modifications to this device not expressly approved by ASSA ABLOY could void the user's authority to operate the equipment.

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A8416 08/26 Rev 0

Experience a safer
and more open world

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Installation Instructions

1. Warnings

FCC:

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.

Innovation, Science and Economic Development Canada:

Under Innovation, Science and Economic Development 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. Conformément à la réglementation d'Innovation, Sciences et Développement économique Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

General Regulatory Compliance:

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

Ce dispositif contient des émetteurs/récepteurs exemptés de licence conformes aux RSS d'Innovation, Sciences et Développement économique Canada. L'opération est sujette aux deux conditions suivantes: (1) ce dispositif peut ne pas causer l'interférence, et (2) ce dispositif doit accepter n'importe quelle interférence reçue, y compris l'interférence qui peut causer l'opération peu désirée de le dispositif.

This equipment complies with FCC and IC radiation exposure limits set forth for general population (uncontrolled environment). This device must not be co-located or operating in conjunction with any other antenna or transmitter. Cet équipement est conforme aux limites d'exposition aux radiations de la FCC et IC définies pour la population générale (environnement non contrôlé). Cet appareil ne doit pas être co-localisé ou fonctionner en conjonction avec une autre antenne ou un autre émetteur.



CAUTION: Risk of Explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions

AVERTIR: Risque d'explosion si la batterie est remplacée par un type incorrect. Jetez les batteries usagées conformément aux instructions.

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and SARGENT Manufacturing makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.



To avoid possible damage from electrostatic discharge (ESD), some basic precautions should be used when handling electronic components:

- Minimize build-up of static by touching and/or maintaining contact with unpainted metal surfaces such as door hinges, latches, and mounting plates especially when mounting electronic components such as readers and controllers onto the door.
- Leave components (reader and controller) protected in their respective anti-static bags until ready for installation.
- Do not touch pins, leads or solder connections on the circuit boards.

2. Regulatory and Power Specifications

General Specifications

- Operating temperature: -13°F (-25°C) to 151°F (66°C)
- Humidity: <85% non-condensing
- Reader controller firmware version 3.22.x or greater
- The electronic access control system shall not prohibit the free exit granted by other emergency systems (e.g., fire, environmental)
- For use with separately listed Model AH20, AH30, and AH40 HUBs

NOTE: Reference LNK100 catalog for complete list of certifications

Electronic Authentication Specifications (Mobile Credentials)

Reader with multiCLASS SE technology offers support for the following credentials:

High Frequency (13.56 MHz):

- HID MultiCLASS SE®
- HID MultiCLASS SE® (SIO-enabled)
- HID MultiCLASS® Seos™
- HID MIFARE® SE
- HID DESFire® EV1 SE
- MIFARE Classic
- DESFire EV1
- DESFire EV2/EV3 (EV1 Compatibility)

NFC & BLE-enabled Mobile Phones:

- HID Mobile Access® (BLE and NFC)
- Apple Wallet Seos (NFC)
- Apple Wallet DESFire® (NFC)
- Google Wallet DESFire® (NFC)

PIV/PIV-1:

- 40-bit BCD
- 64-bit BCD
- 75-bit output
- 128-bit output
- 200-bit output

Power Supply Specifications

- Battery Power: Alkaline AA Batteries (4); 6V, 1.5A; 9V external power jump

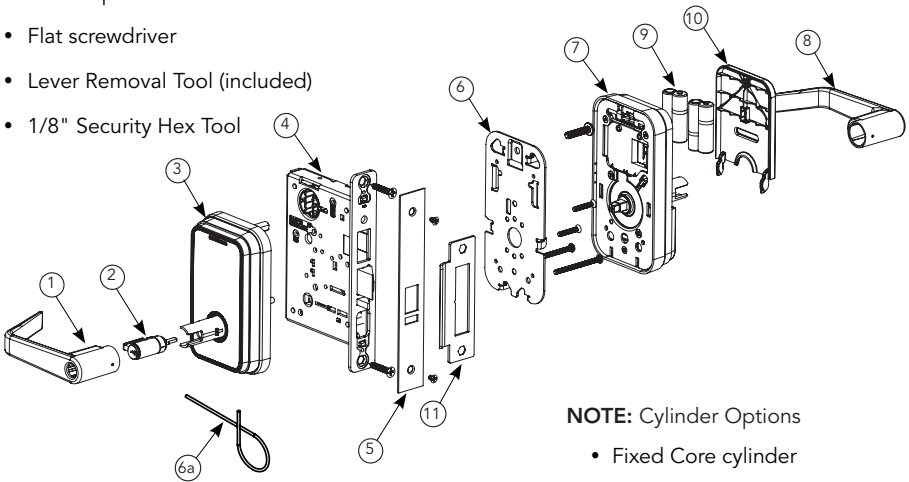
CAUTION: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

Installation Instructions

3. Product Illustrations

Tools Required:

- #2 Phillips screwdriver
- Flat screwdriver
- Lever Removal Tool (included)
- 1/8" Security Hex Tool

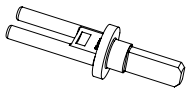


NOTE: Cylinder Options

- Fixed Core cylinder
- Large Format Interchangeable Core (LFIC)
- Small Format Interchangeable Core (SFIC)
- Less Core, (no cylinder SFIC, LFIC, Fixed Core)

If ordering fixed core without cylinder included, EM tail piece supplied with lock **MUST** be used.

If ordering Large Format Interchangeable Core (LFIC) or Small Format Interchangeable Core (SFIC), lock ships with dummy cylinder including tailpiece. Use metal tailpiece with actual cylinder. Use Control Key to lock the core into the lever.



Item No.	Description	Req'd
1	Outside Lever	1
2	Cylinder, if ordered (See note)	1
3	Outside Escutcheon	1
4	Mortise Lock Body	1
5	Front Plate with screws	1
6	Inside Mounting Plate with screws	1
6a	Lever Removal Tool	1
7	Inside Escutcheon	1
8	Inside Lever	1
9	AA Battery	4
10	Battery Cover	1
11	Strike with screws	1

4. Lock Installation

1. Prepare Door

A. Verify Hand and Bevel of Door

- Check hand of door. (Stand on outside of locked door when determining door hand).

- Door should be fitted and hung.

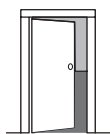
B. Door Preparation: mark and drill door

If mullion is used, install prior to installing hardware.

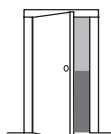
Prior to installation, all holes must be free of burrs, debris, and sharp edges.

Prepare door according to appropriate template (www.sargentlock.com)

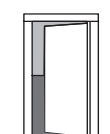
- Field Template (ships with product): **A8413**
- Door manufacturer template: **A8414**



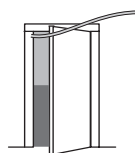
Left Hand
Hinges Left
Open Inward
"LH"



Left Hand
Reverse Bevel
Hinges Left
Open Outward
"LHRB"



Right Hand
Hinges Right
Open Inward
"RH"



Right Hand
Reverse Bevel
Hinges Right
Open Outward
"RHRB"

The template is designed to be used on both square-edged and beveled-edge doors.

Make sure the template is oriented the right way up for the specific type of door and secured so it doesn't move. **Double-check this is correct before drilling any holes in the door.**



Drill holes 1/2 way thru door then complete from other side to prevent splitting.



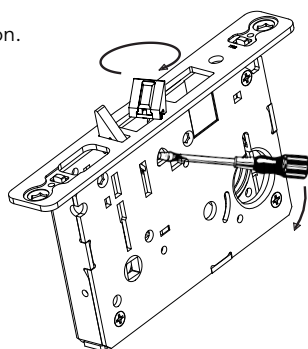
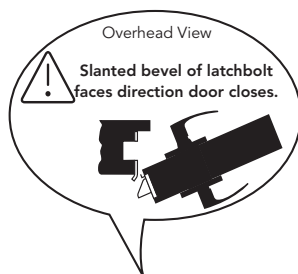
4. Lock Installation (continued)

2. Set Latchbolt Direction (if necessary)

Change the latchbolt direction so that the curved/beveled edge of the latchbolt faces the direction the door closes.

To change the latchbolt direction, do the following:

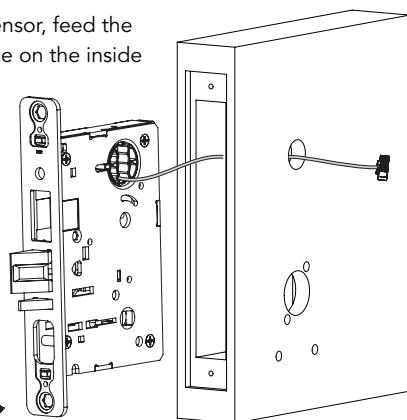
1. Insert flat head screwdriver into cover slot.
2. Pull down on screwdriver until latchbolt extends past the front of the lock body.
3. Rotate the latchbolt to the correct position.



3. Install Lock Body

1. Carefully push lock body into pocket in the door.
2. If lock body has a Door Position Sensor, feed the lock body wire through the top hole on the inside of the door.
3. Insert two (2) #12-24 screws into lock body and partially tighten with a screwdriver.

Gently tighten, then back off each lock body screw by one turn, this will help you get the lock body aligned. They will be fully tightened later on.

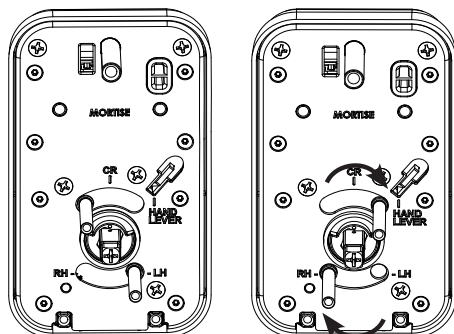


4. Lock Installation (continued)

4. Reset Exterior Escutcheon Trim Posts

If the exterior escutcheon trim posts need to be reset, do the following:

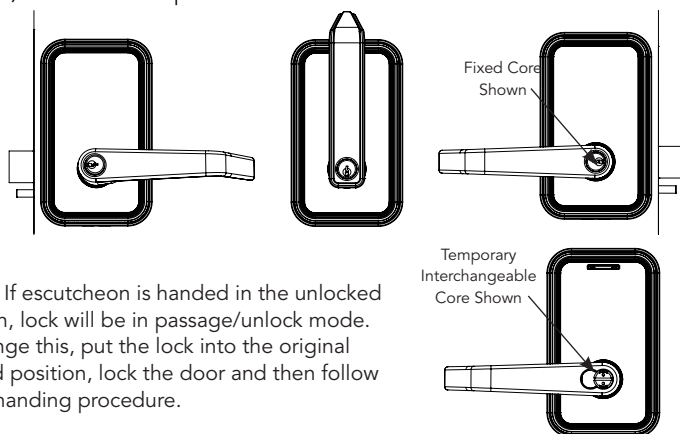
1. Rotate the posts to the position (LH or RH) that matches the post holes in the door.



5. Hand Exterior Escutcheon

IMPORTANT: Be sure this procedure is done BEFORE installing on the door.

1. Hold the escutcheon up to the outside face of the door.
2. Ensure the key/temporary core is in the locked position (parallel to lever) BEFORE handing.
3. Turn the lever so that the lever handle points away from the latch (turn left or right). It will click into place. The core turns with the lever.



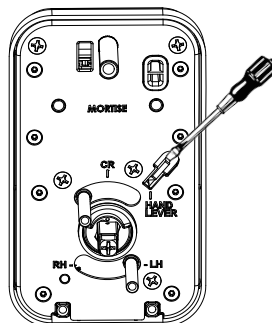
NOTE: If escutcheon is handed in the unlocked position, lock will be in passage/unlock mode. To change this, put the lock into the original handed position, lock the door and then follow the re-handing procedure.

4. Lock Installation (continued)

6. Rehand Exterior Escutcheon (if necessary)

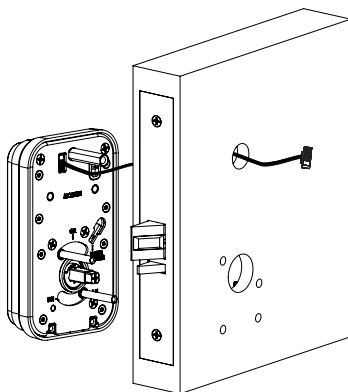
If the handing needs to change, do the following to reset the escutcheon:

1. Remove the escutcheon from the door, if installed.
2. Ensure the key is set for the lock to be in locked position. Confirm by rotating lever and checking that square spindle does not rotate.
3. Use a flat head screwdriver, or finger, to push the tab labeled HAND LEVER down. The tab pops up. It may be necessary to relieve pressure on the tab by slightly rotating the lever.
4. Rehand the escutcheon using the lever.



7. Install Exterior Escutcheon

1. Slide the exterior escutcheon into the holes drilled into the door.
2. Route wires through the upper hole in the door and lock body. Be sure to not pinch wires.



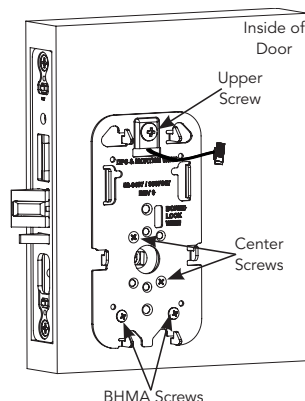
4. Lock Installation (continued)

8. Install Interior Mounting Plate

1. Feed the wire harness through the rectangular hole at the top of the interior mounting plate.
2. Position the mounting plate over the hole in the door so that the screw holes are aligned.
3. Secure the mounting plate to the door using one (1) 1/4-20 pan head machine upper screw and two (2) 8-32 flat head machine center screws.
4. For BHMA Grade 1 applications, secure lower portion of plate with two (2) 8-32 pan head machine screws.

NOTE: Screw lengths will depend on door thickness.

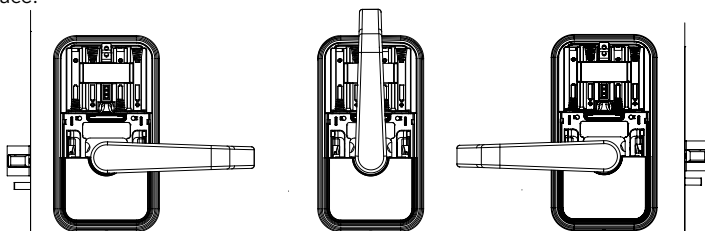
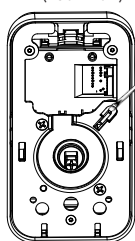
5. Move the exterior lever to check for binding. If it binds, check for gaps around the exterior escutcheon. Loosen mounting plate screws and readjust until handle does not bind.



9. Hand Interior Escutcheon

1. Hold the interior escutcheon up to the door.
2. Turn the lever so that the handle point away from the latch. It will click into place.

Interior Escutcheon
(Back View)

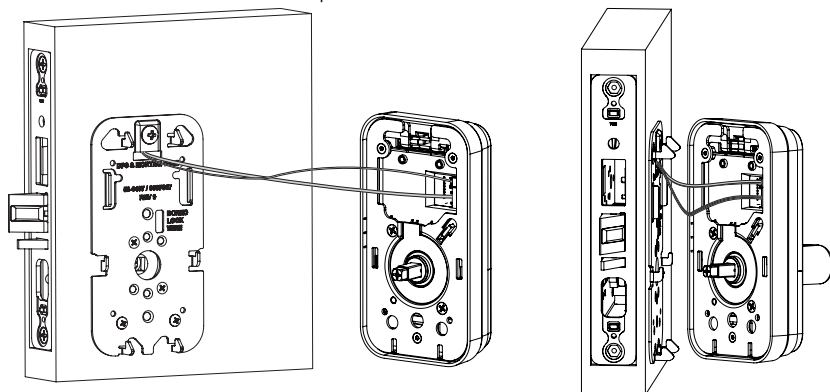


If the handing needs to change, use a flat head screwdriver, or finger, to push the tab labeled HAND LEVER down. The tab pops up. It may be necessary to relieve pressure on the tab by slightly rotating the lever.

4. Lock Installation (continued)

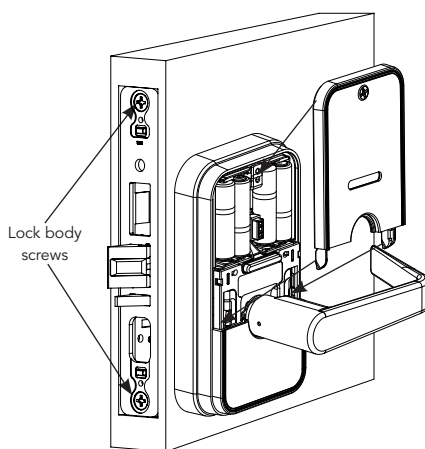
10. Install Interior Escutcheon

1. Connect the wire harness from the exterior escutcheon to the corresponding connector on the back of the interior escutcheon.
2. Connect the wire harness from the Door Position Sensor, if applicable, to the corresponding connector on the back of the interior escutcheon.
3. Press the escutcheon onto the mounting plate until it clicks into place. Align the bottom and then the top of the escutcheon. Make sure the wire harness(s) fall into the pocket on the back side of the escutcheon.



11. Install Batteries and Battery Cover

1. Insert the batteries into the battery compartment. Ensure correct polarity.
2. Close the battery compartment by inserting the cover tabs into the escutcheon and then tilting the cover into place.
3. Secure in place using the captive screw.
4. Fully tighten two (2) lock body screws.



4. Lock Installation (continued)

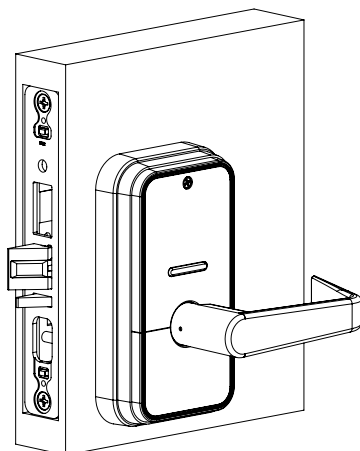
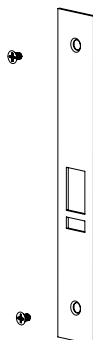
12. Install Armored Front Cover

1. Attach the armored front cover on the lock body face using two #8-32 x 1/4" flat head machine screws.

#8-32 x 1/4"
Flat Head
Machine Screws

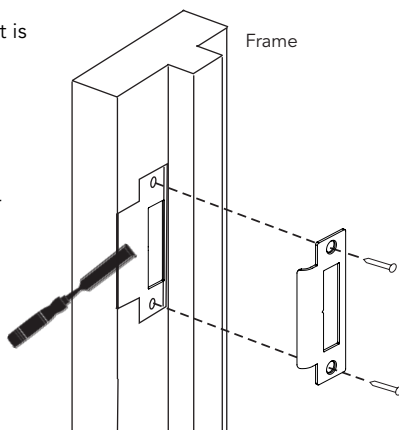


x2



13. Prepare Frame and Install Strike

1. Position the strike on the frame so it is aligned to the latchbolt.
2. Prepare frame per instructions/ template for the strike.
3. If needed, use a chisel to make the strike flush with the rest of the door frame.
4. Secure the strike plate with the two screws (#12 wood or metal screws, depending on frame material).

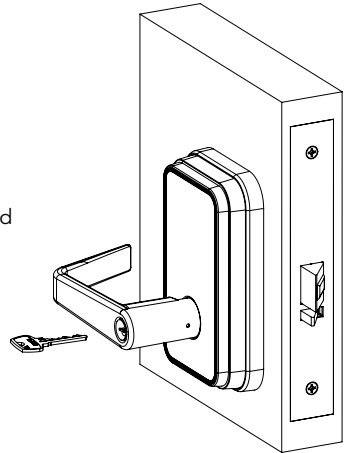


5. Operational Check

IMPORTANT: Be sure to test functions prior to closing door.

In all cases, perform the following checks:

1. Ensure that inside lever retracts latch.
2. Test cylinder by doing the following:
 - Insert key into cylinder and rotate.
Ensure there is no friction against lock case, wire harness, or any other obstructions. If friction or binding occurs, readjust cylinder and wiring harness to eliminate issues.
 - The key should unlock the outside lever and the lever should retract the latchbolt.
 - Verify cylinder is in proper orientation by removing the key and then rotating the lever. If the key can be removed with the door in passage (unlocked) mode rather than locked, the lever must be removed to reorient the cylinder cam 180 degrees.
3. Present a valid credential to unlock outside lever. Turn lever handle to ensure latch retracts.

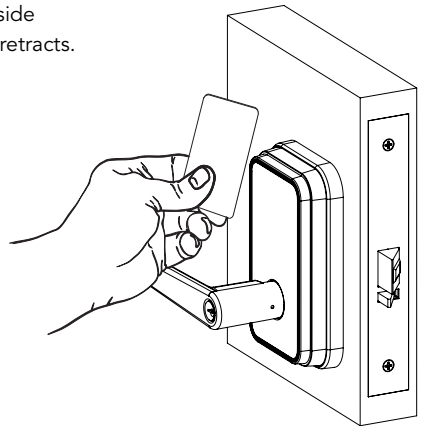


NOTE: Credential should approach inscription on reader as indicated to ensure credential is read properly. Do not wave credential.

Depending on availability of access control system either a red flash (denied) or a green flash and lock motor cycle (access granted)

NOTE: Consult premises access control system for use of RX function and verification of signal.

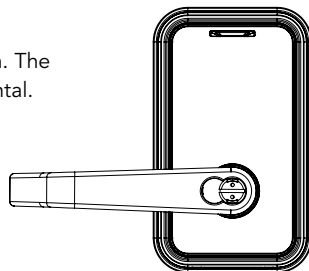
When tests are completed, close the door ensuring latchbolt fully extends into strike plate without binding.



6. Cylinder Installation

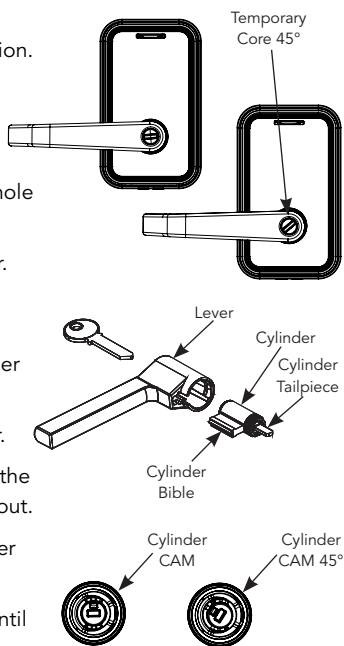
1. Removeable Core Cylinder

1. Rotate temporary core to the locked position. The slot on the temporary core should be horizontal. See illustration.
2. Remove temporary core.
3. Reuse the tailpiece from the temporary core with the Removeable Core Cylinder.
4. Insert Removeable Core Cylinder into lever.
5. Rotate to locked position and remove control key.



2. Fixed Core Cylinder

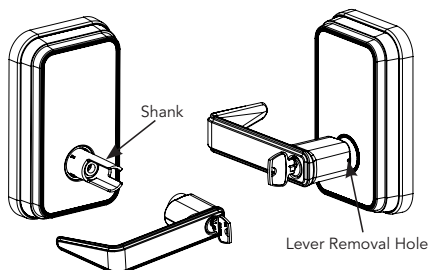
1. Rotate temporary core to the locked position. The tab on the temporary core should be horizontal. See illustration.
2. Rotate temporary core additional 45°.
3. Insert lever removal tool in lever removal hole and pull the lever off the escutcheon.
4. Remove the temporary core from the lever.
5. Apply tailpiece supplied with lock to the cylinder. The cylinder tailpiece should be aligned in the same direction as the cylinder bible.
6. Slide the cylinder all the way into the lever.
7. While holding the cylinder in place, insert the key into the cylinder. Be sure no parts fall out.
8. Rotate the key 45° to align with the cylinder CAM. See illustration.
9. Slide the lever onto the shank and press until it clicks into place.
10. Turn the key back to the horizontal position and remove from cylinder. If the lever is not seated properly, the key cannot be rotated back to the horizontal position.



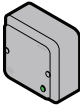
6. Cylinder Installation (continued)

3. Removing Outside Lever

To remove the outside lever, turn the key so the teeth point at least 45° from horizontal and then press the lever removal tool into the small hole on the side of the lever. This will depress the lever catch so the lever and cylinder can be pulled off the shank.

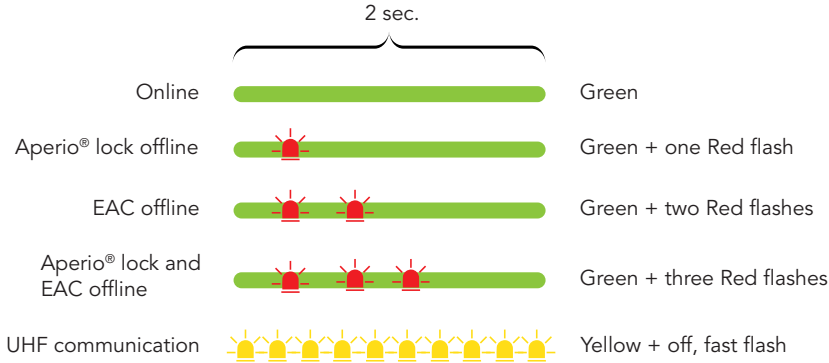


7. Communication Hub LED Indications



Communications hub has a single LED. It supports an optical scheme of red, green, and yellow. Indication scheme is described by the figures below:

Communications Hub NORMAL OPERATION LED indication



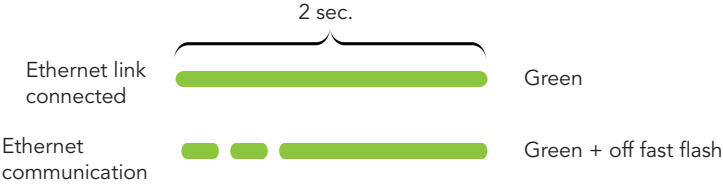
Some special LED indication schemes are used during lock maintenance actions:

Communications Hub MAINTENANCE LED indication



LED on AH40 communications hub indicates both status of Ethernet link level and ethernet communication:

AH40 Communication Hub ETHERNET LED indication



For more information, refer to Aperio Online Quick Installation Guide
Document No: ST-011322

8. Lock LED Indications

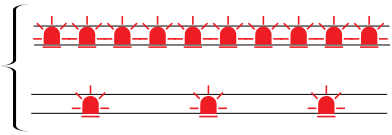
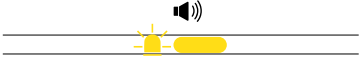
Lock NORMAL OPERATION LED indication

EAC response time

Enter PIN

Card + PIN access (configurable)		Yellow + off, fast flash
Card access (configurable)		One Yellow flash (.25 second)
Access granted, EAC offline or online		One Green flash (1 second)
Access denied, EAC online		One Red flash (1 second)
Force closed in remote open/ office mode		Five Yellow flashes & one Red flash (.25 seconds)
Busy blink, com hub busy w/other locks		
Access denied, EAC offline		Three Red flashes (.5 second each) Continuous red flashes (.125 sec. every 1 sec.)
Error in lock, maintenance required		(Repeated every 5 sec. if lock can't close)
Tamper		Ten Red flashes (.125 sec. each) repeated every 5 sec.
Time to replace battery		Continuous Yellow flashes (.25 sec. every 5 sec.) Continuous Red flashes (.25 sec. every 5 sec.)
USB cable detection action occurred		Five Yellow flashes (.25 seconds each)

8. Lock LED Indications (continued)

Privacy mode** activation (inside)		Ten Red flashes (.125 sec. each, 1 per sec.) then one Red flash every 3 sec. for 120 sec.
Privacy mode activation (outside)		One Yellow flash (1 sec.) and one beep (if available)
Privacy mode deactivation (inside)		Three Red flashes (.125 sec.)

*When lock mechanism is blocked (lock jammed) lever must be turned to release lock mechanism.

**Ensure Privacy mode button configuration in lock matches access control system configuration settings.

Lock MAINTENANCE OPERATION LED indication

Enter configuration mode		Five Yellow flashes (.125 seconds each)
-----------------------------	---	--

9. Lock Self-Test LED Indications

After replacing batteries, a Power on Self Test (POST) is performed. The result is indicated using a series of red and green LED flashes as described by figures below:

BATTERY NOT FULLY CHARGED

Error in lock is an indication -10 quick (125ms) red blinks, that either new batteries are not at right voltage or a backward battery has been installed; battery not fully charged; energy counter not reset or no Power on Self-Test performed.

Enter configuration mode

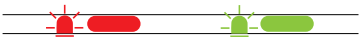


Ten Red flashes
(.125 sec. each, 1 per sec.)

TEST PASS

1 Red (1sec.) + 1 Green (1 sec.), Power on Self-Test passed. See table below.

POST successful

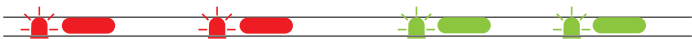


One Red, one Green flash (1 second)

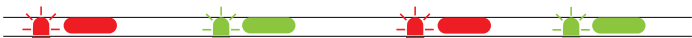
TEST FAIL

1 Red (1sec.) + 3 flashes (500ms Green or Red), at least one test failed (Red) See table below. If a fatal error is detected, lok will enter an Error state and continuously indication fatal error. Lock will not read cards or unlock.

FATAL ERROR



CABLE ERROR



MECHANICAL ERROR

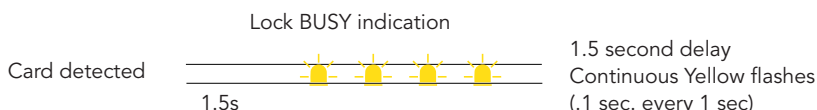


FATAL ERROR	Tests core functionality. MCUs, memory and internal communication, etc.
CABLE ERROR	Tests communication between different parts in system, i.e. different boards connected with a wire.
MECHANICAL ERROR	Test related to moving parts of lock.

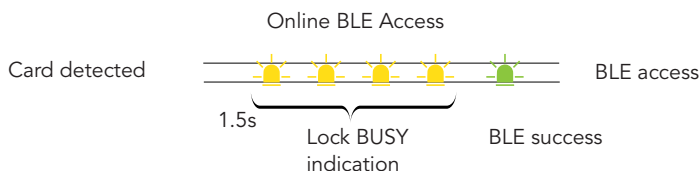
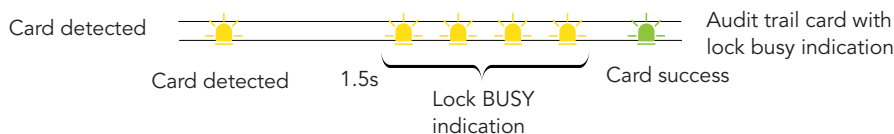
10. Lock Busy LED Indications

Lock BUSY indicates lock is processing a card (such as a key configuration card for online SE processor offline void list card with many entries). Card should be kept in close proximity to reader until end of process. Lock BUSY indication does not cancel or overwrite any other indications. Indications related to access permissions or setup card processing are still present.

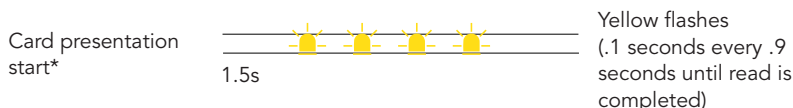
Indication scheme is described by figures below:



Lock BUSY indication Mixed with Scenario for Offline Audit Trail Card

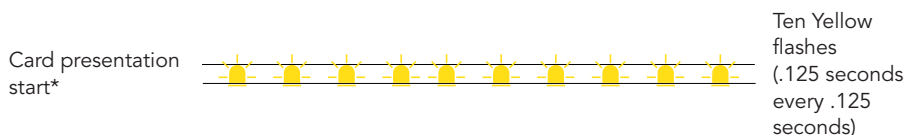


Online SE Keys Setup Card (Configuration)



*Introduced with firmware version 3.8 - in prior firmware versions only

"Config card processed" LED indication is displayed.



LNK100 Series

Mortise Lock

Installation Instructions

SARGENT

ASSA ABLOY

LNK100 Series

Mortise Lock

Installation Instructions

SARGENT

ASSA ABLOY

