Certification Exhibit

FCC ID: U4A-SCYPROX3
IC: 6982A-SCYPROX3

FCC Rule Part: 15.209
IC Radio Standards Specification: RSS-210

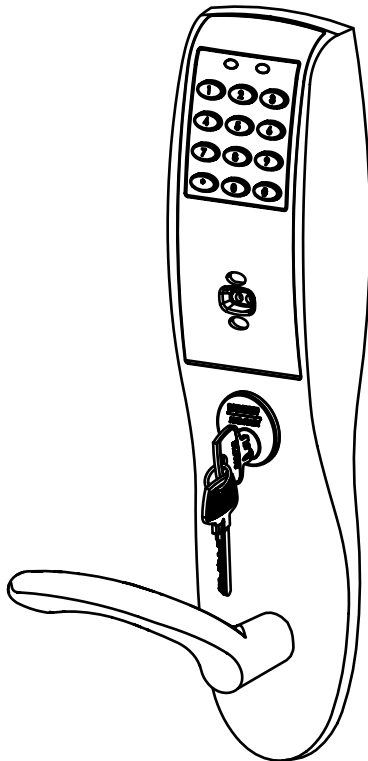**ACS Report Number: 10-0443.W06.11.A**

Manufacturer: Assa Abloy
Model: S1-PA/PK, S2-PA/PK,
TCIP1-M802/M803, TCWI1-M802/M803

Manual(s)

SARGENT
ASSA ABLOY

v.S2
Profile
WiFi Mortise Lock
Installation Instructions

A7786E

01/11

ASSA ABLOY, the global leader
in door opening solutions

Table of Contents

---

❶ Warning

> Warning: Changes or modifications to this unit not expressly approved by ASSA ABLOY Inc. could void the user's authority to operate the equipment.

FCC:

NOTE: 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.

Industry Canada:

The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

This Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. 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.

Cet appareillage numérique de la classe B répond à toutes les exigences de l'interférence canadienne causant des-règlements d'équipement. L'opération est sujette aux deux conditions suivantes: (1) ce dispositif peut ne pas causer l'interférence nocive, et (2) ce dispositif doit accepter n'importe quelle interférence reçue, y compris l'interférence qui peut causer l'opération peu désirée.

⚠ To comply with "Fire Listed" doors, the batteries must be replaced with alkaline batteries only.

SARGENT Mfg. Co. v.S Series locksets utilizing a door position switch (DPS) are not rated for, or intended for use in life safety applications.

Profile Series v.S2 WiFi Mortise Lock

SARGENT®

ASSA ABLOY

❷ General Description

The SARGENT Profile Series v.S2 mortise lock is available with either an HID® 125 kHz prox or 13.56 MHz iCLASS® technology reader. It is designed for applications requiring wireless access control. The v.S2 is a self-contained microprocessor-controlled access control product with non-volatile memory. It is able to utilize the existing wireless LAN (802.11b/g) in order to communicate with the access control system. The v.S2 lock holds a total of 2400 unique users per lock.

This product is operated by six (6) "AA" alkaline batteries or a SARGENT 3267 9VDC power supply. SARGENT mortise locks are designed with quality components to provide high security, performance and durability.

The Profile Series v.S2 mortise lock may be used for both indoor and exterior applications. A weather-protective gasket (provided with unit) is recommended for exterior applications.

HID® and iCLASS® are registered trademarks of HID Global Corporation.
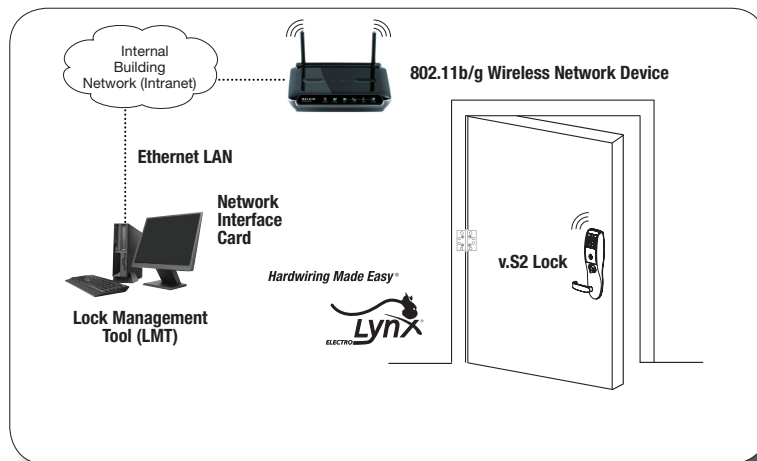
❸ Hardware Specifications

- Latch: One-piece stainless steel, 3⁄4" projection
- Deadbolt: One-piece hardened stainless steel
- Guardbolt: Stainless steel, non-handed
- Handed: Easily field reversible without opening case
- Case: 12-gauge, heavy duty wrought steel
- Locks furnished for 1-3/4" doors. Can be furnished for other door sizes upon request. Consult factory.
- UL Listed (3 hours)
- Inside lever retracts latch and deadbolt

❹ Electronic Specifications

- Wireless (WiFi 802.11 b/g) online, battery-operated
- 2400 users per lock
- 10,000 Event audit trail
- Centralized lock management
- Door Status Monitoring*
- Easy installation (no need to hardwire)
- Input Power: DC 9V, 1.5A (6 AA alkaline batteries or optional hard-powered)
- Lockdown capable*
- Supports HID® 125 kHz prox or 13.56 MHz iCLASS® credentials (26 - 39 bit); supports CSN reads for other common 13.56 MHz cards, including MiFare, Des-Fire, and Felica
- Supports most current WiFi networks security standards
- For specific security information, please contact a local ASSA ABLOY Door Security Solutions sales consultant or call 800-810-WIRE
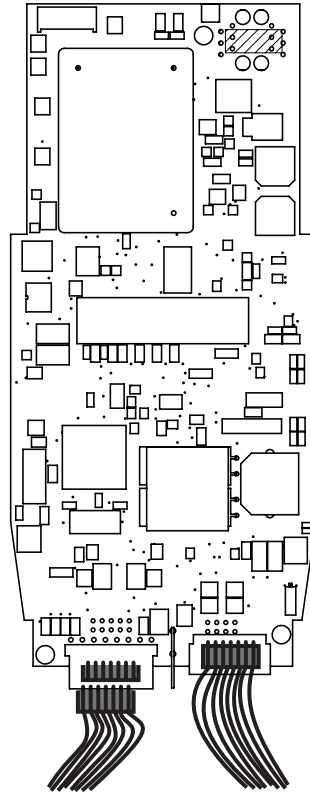 * Lockdown and real-time door status monitoring available only when lock is hard-powered

❺ Installation Wiring Overview

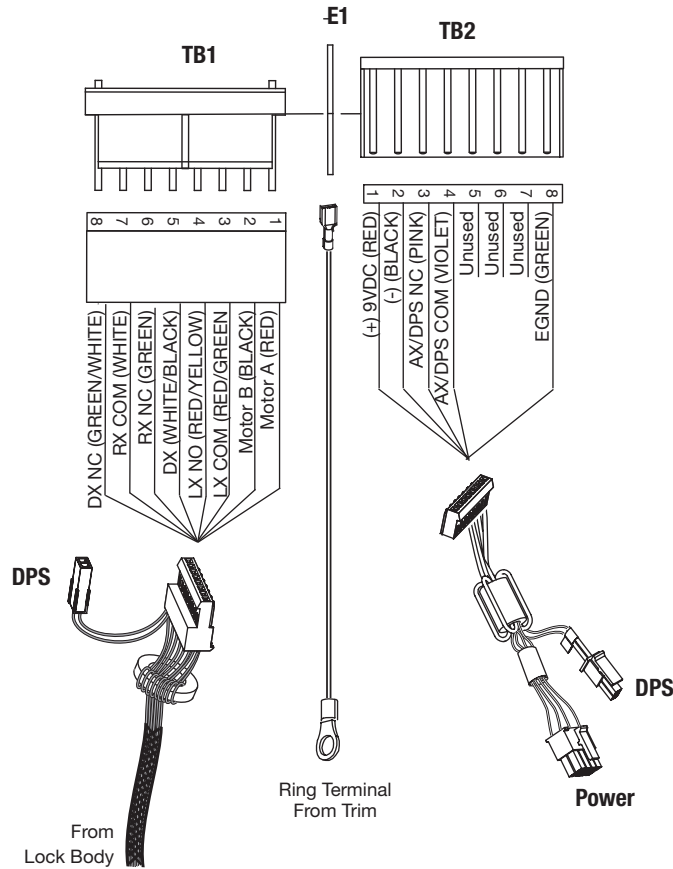**SARGENT Profile Series WiFi**
v.S2 Typical Application

Internal Building Network (Intranet)

802.11b/g Wireless Network Device

Ethernet LAN

Network Interface Card

Hardwiring Made Easy ®

v.S2 Lock

Lock Management Tool (LMT)

Lynx ELECTRO

6 Lock Wiring

**Controller Board Connectors
(Inside Escutcheon)**

E1

TB1

TB2

8	DX NC (GREEN/WHITE)
7	RX COM (WHITE)
6	RX NC (GREEN)
5	DX (WHITE/BLACK)
4	LX NO (RED/YELLOW)
3	LX COM (RED/GREEN)
2	Motor B (BLACK)
1	Motor A (RED)

1	9VDC (+)
2	9VDC (RED)
3	(BLACK)
4	AX/DPS NC (PINK)
5	AX/DPS COM (VIOLET)
6	Unused
7	Unused
8	Unused
	EGND (GREEN)

DPS

DPS

Power

Ring Terminal
From Trim

From
Lock Body

ASSA ABLOY, the global leader in door opening solutions

SARGENT®

ASSA ABLOY

7 Parts Breakdown 125 kHz Prox and 13.56 MHz iCLASS

01/29/11
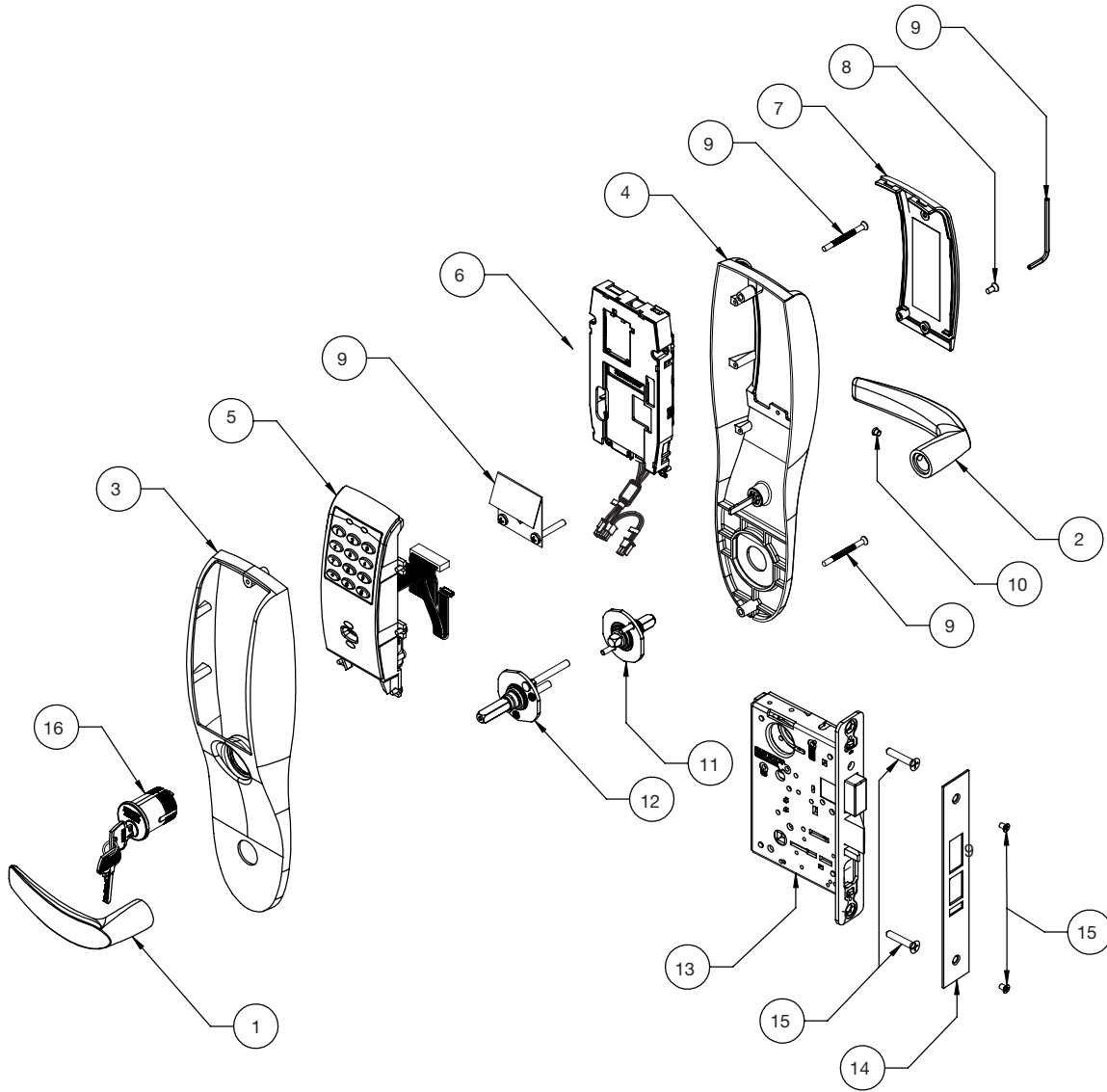
Parts Breakdown 125 kHz Prox and 13.56 MHz iCLASS, continued

ITEM	PART NO.	DESCRIPTION		QTY.
1	Outside Lever	Reference 8200 Catalog for available levers		1
2	Inside Lever	Reference 8200 Catalog for available levers		1
3	82-0493	O/S Escutcheon only with Cylinder		1
	82-0495	O/S Escutcheon only without Cylinder		
4	82-0492	Inside Escutcheon only without Thumb Turn		1
	82-4571	Inside Escutcheon only with Thumb Turn		1
5	52-2431	125 kHz Prox Only Bezel Assembly (PA)		1
	52-2432	Keypad and 125 kHz Prox Bezel Assembly (PK)		
		OR		
	52-4422	13.56 MHz Prox Only Assembly (S2-IA)		
	52-4423	Keypad and 13.56 MHz iCLASS Bezel Assembly (S2-IK)		
6	52-4425	S2 Controller Assembly (Double Pulse)		1
7	52-3855	Battery Cover Assembly		1
8	01-1212	Security Screw		1
9	52-2427	Profile Screw Pack - Specify Finish (Includes: Fire Stop Plate, Trim Mounting Screws, Security Allen Wrench)		1
10	Consult Factory	Lever Handle Screw (Depends on Lever Style)		1
11	Consult Factory	Inside Adapter Assembly (Depends on Lever Style)		1
12	Consult Factory	Outside Adapter Assembly (Depends On Lever Style)		1
13	S2-82276-hand-finish	Lockbody with Deadbolt with Cylinder		1
	S2-82277-hand-finish	Lockbody with Deadbolt without Cylinder		
	S2-82278-hand-finish	Lockbody without Deadbolt with Cylinder		
	S2-82279-hand-finish	Lockbody without Deadbolt without Cylinder		
14	82-0084	Faceplate with Deadbolt (shown)		1
	82-0081	Faceplate without deadbolt		1
15	77-4336	Mortise Screw Pack - Specify Finish (Includes: Wood and Metal Lock body Screws, Faceplate Screws, and Strike Screws)		1
16	Consult Factory	#43 Mortise Cylinder		1

ASSA ABLOY, the global leader in door opening solutions

8 Installation Instructions

Step #1 – Door Preparation

A. Verify Hand and Bevel of Door

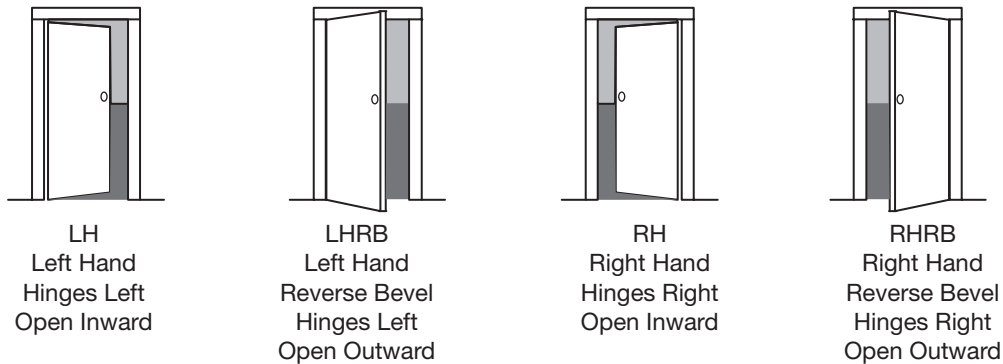Stand on outside/locked side of door when determining the door hand.

LH	LHRB	RH	RHRB
Left Hand Hinges Left Open Inward	Left Hand Reverse Bevel Hinges Left Open Outward	Right Hand Hinges Right Open Inward	Right Hand Reverse Bevel Hinges Right Open Outward

Fig. 1A

B. Door Preparation

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

Prepare door according to appropriate template (see website www.intelligentopenings.com):

Door Manufacturing Template: 4533

Outside of Door   **Inside of Door**

Through-bolt Hole

Ribbon Cable Hole
(Controller to Keypad)

Outside Cylinder Hole
(only with cylinder installation)

Lever Handle Hole

Through-bolt Hole

Ribbon Cable Hole
(Controller to Keypad)

Inside of Lockbody Wire Hole

Thumb Turn Lever Hole

Lever Handle Hole

Mortised
Pocket

Pre-drilled and/or
Tapped Holes
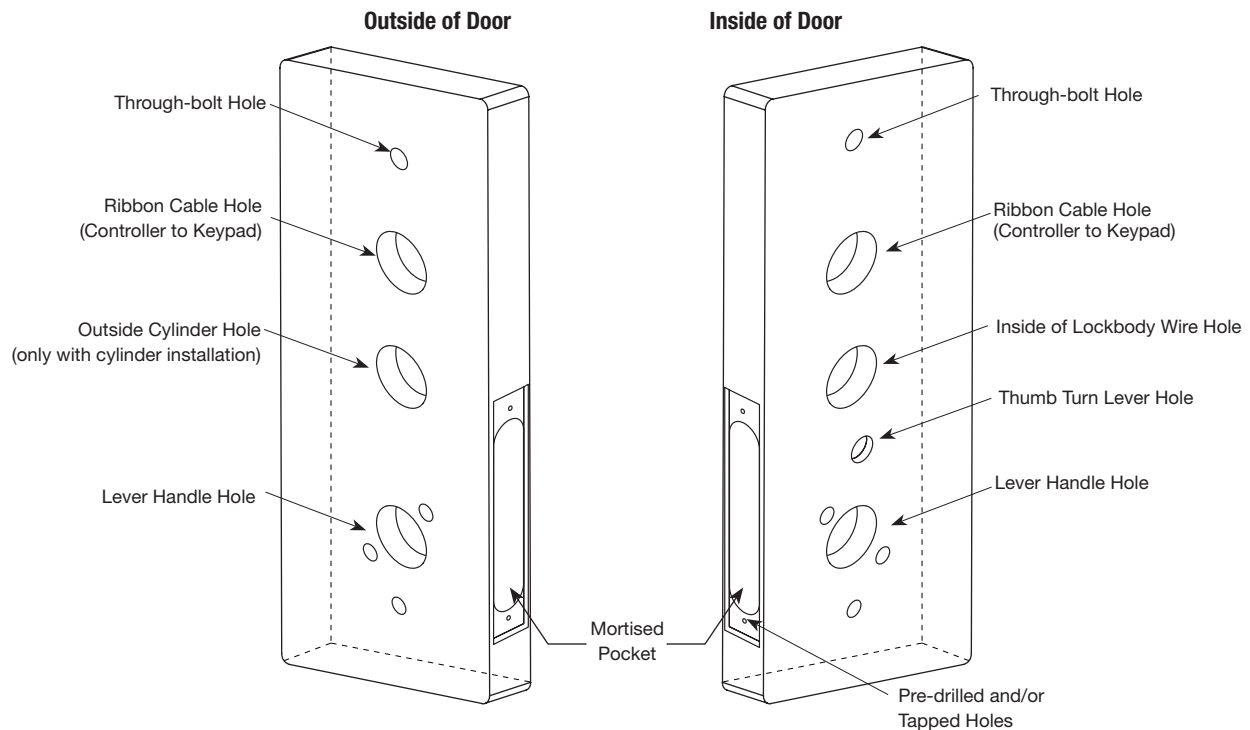
Fig. 1B

Step #2 – How to Change Hand of Lockbody

A. Reverse Lock Hand

Red surface of locking piece must face the outside/locked side of door. To rotate locking piece (Fig. 2A):

1. Position lock body with red surface of locking piece visible.

2. Insert blade type screwdriver into locking piece slot to rotate locking piece toward back of lock body.

3. Rotate the locking piece 180° until RED surface is on opposite side.

   Note: Red indicates locked side (outside).

   Wire harness MUST exit through the inside/non-cylinder side of the lockbody.

B. Retaining Ring

Make sure the plastic retaining ring is seated correctly (Fig. 2B):

1. The wires and the plastic retaining ring must be located on the non-cylinder side.

2. Orient the plastic retaining ring so that the word **Bottom** is located at the bottom of the cylinder hole.

3. Route the wires from the top of the cylinder hole into the slot on the top of the plastic retaining ring, NOT through the retaining ring.

Connector

Slot

Plastic
Retaining
Ring

Fig. 2B

Red Locking Piece
Indicates Locked Side

Outside of Door

Right Hand Shown

Locking
Guide
Slot

Push In
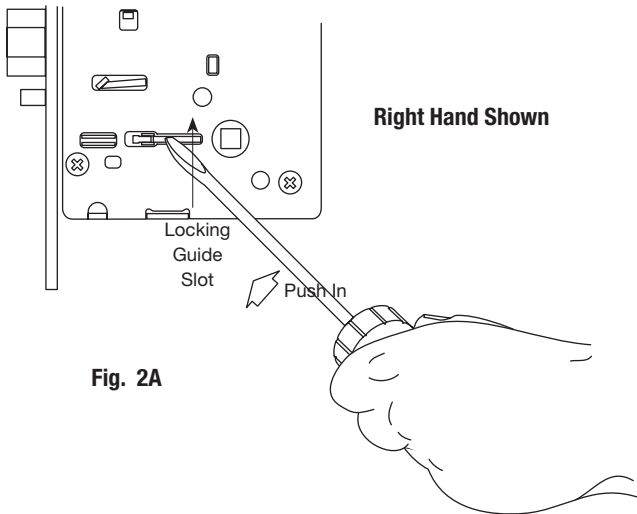
Fig. 2A
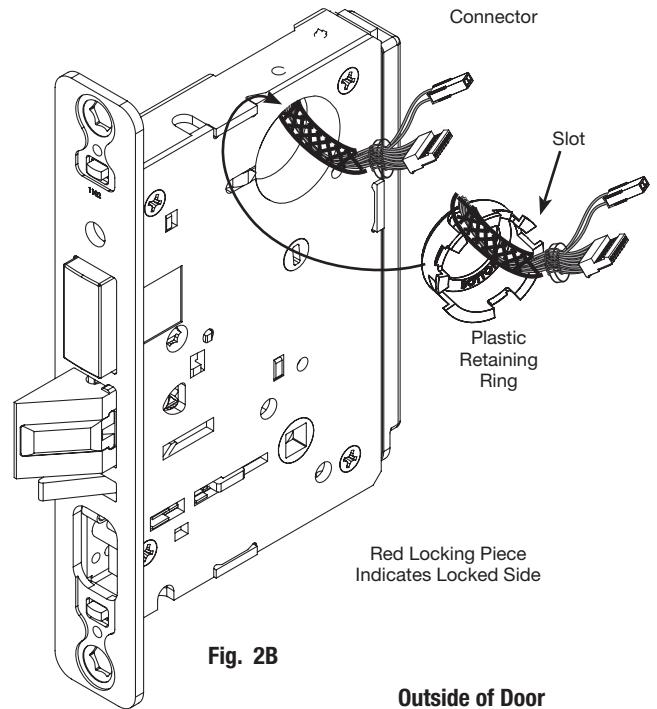
C. Reverse Latch Hand

Beveled surface of latchbolt must face strike (Fig. 2C).

The deadlatch is self adjusting.

To change the hand of the latchbolt:

1. Insert the blade of a slotted screwdriver (>1/4") into the spade shape slot behind latch.

2. Rotate the screwdriver 90° to push latchbolt out until back of bolt clears lock case front.

3. Rotate latchbolt 180° until the latchbolt drops back into the lockbody.

   Note: Latch cannot be unscrewed.

Fig. 2C

01/29/11

SARGENT®

ASSA ABLOY
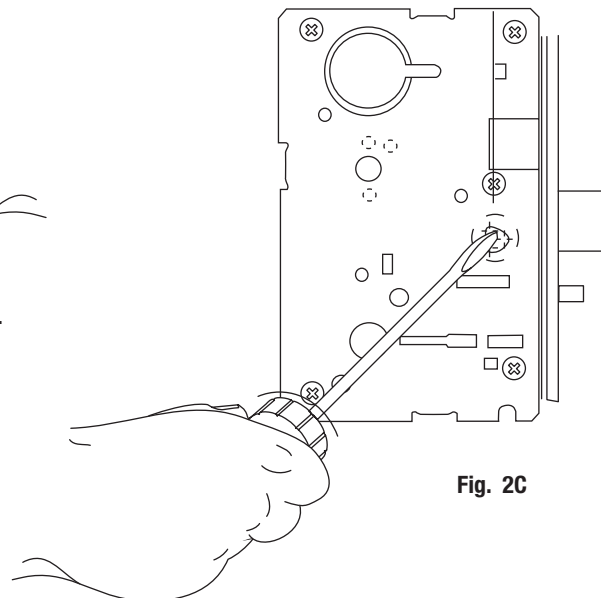
Step #3 – Install Lockbody

To install lockbody:

1. Feed the wires first through the mortise pocket and out the inside prep, followed by the lock-body (Fig. 3A).

    Note: Connectors and wires must be fed through non-cylinder side.

2. The wires from the lockbody exit the inside door prep through the mortise cutout.

3. Loosely secure the lockbody in the door with two #12 x 1-1/4" wood screws or #12-24 x 1/2" machine screws.

    Note: Do not completely tighten at this time.

(2) #12-24 x 1/2" Long Flat Head Screws for Metal Doors

Mortise Connectors

Inside of Door

Fig. 3A

(2) #12 x 1-1/4" Long Flat Head Screws for Metal Doors
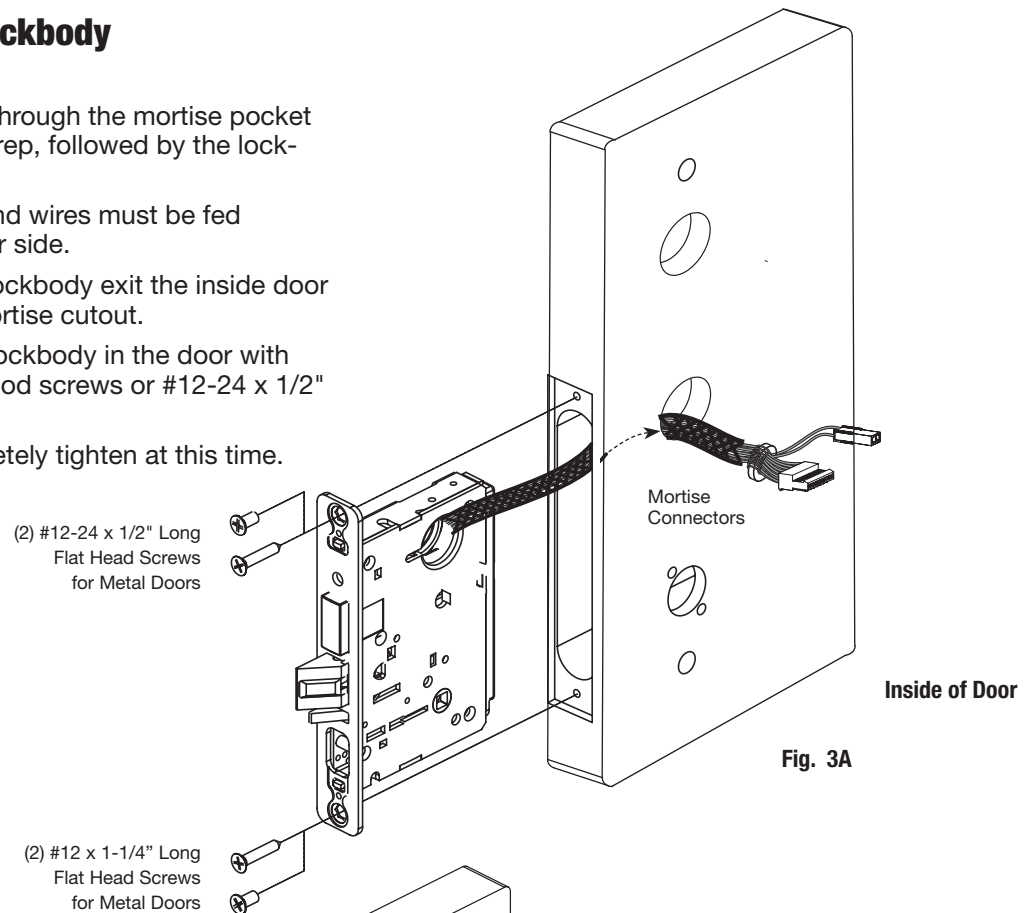
Step #4 – Door Options

A. Fire Stop Plate (P/N 52-0033)

Fire-rated doors require a fire stop plate on the outside of the door (Fig. 4A).

1. Drill (2) 1/8" x 1-1/4" deep holes in the door if not already present.

    Refer to template for fire-stop prep locations.

2. Attach with flap up and out using (2) #8 x 1/2" self-tapping screws for wood and metal doors.

(2) 1/8" Diameter Holes Required

Fire Stop Plate

(2) #8 Self-Tapping Screws for Wood and Metal Doors

(2) Through-bolt Holes
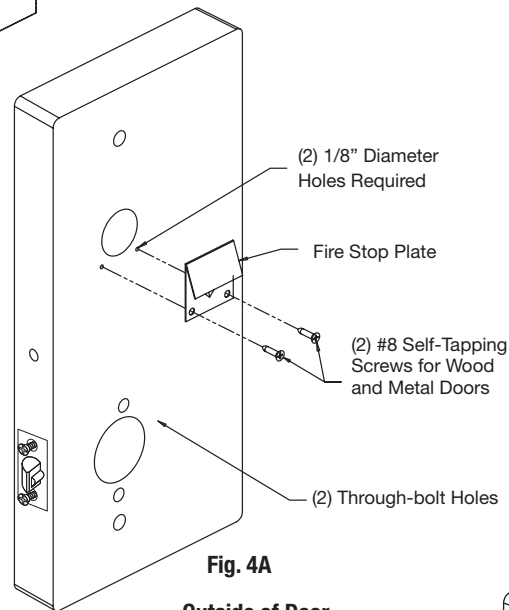
Fig. 4A

Outside of Door

B. Weather Conduit (52-2847)

Install weather conduit on **NON FIRE-RATED** exterior doors only (Fig. 4B).

1. Carefully insert the weather conduit into the ribbon cable hole on the inside of the door.

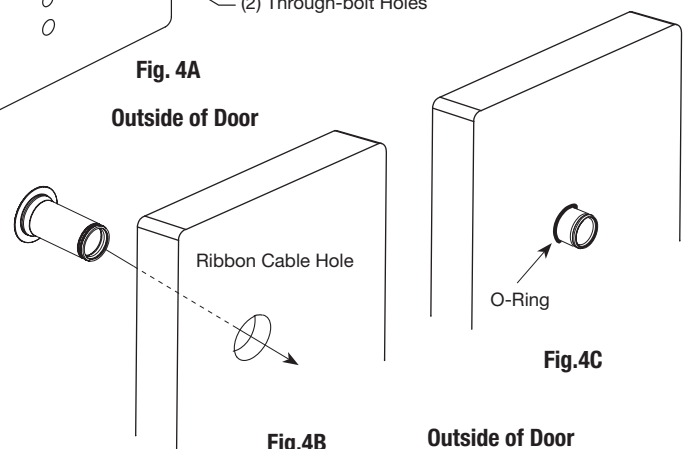2. Place the O-ring around the weather conduit on the outside and up against the door (Fig. 4C)

Ribbon Cable Hole

O-Ring

Fig.4C

Fig.4B

Outside of Door

01/29/11

Step #5 – Install Gasket (for Exterior Doors)

For exterior applications, use weather seal gasket between escutcheon and outside door surface. To apply weatherseal gasket:

1. Carefully remove the backing from the gasket. (Fig. 5A).

2. Apply gasket to escutcheon:

   a. Starting in one place, press the adhesive side of the gasket firmly against the escutcheon.

   b. Work around the escutcheon, pressing the sticky side of the gasket firmly against the escutcheon edge.

   c. The gasket should be aligned so that all edges of the escutcheon are covered.
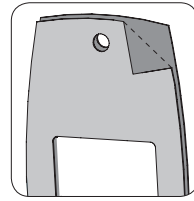
3. Attach escutcheon to the door.

   Note: The 43 cylinder may be used with or without a gasket.

Fig. 5A

Gasket

Keypad Ribbon Cable

Antenna (iCLASS) Only
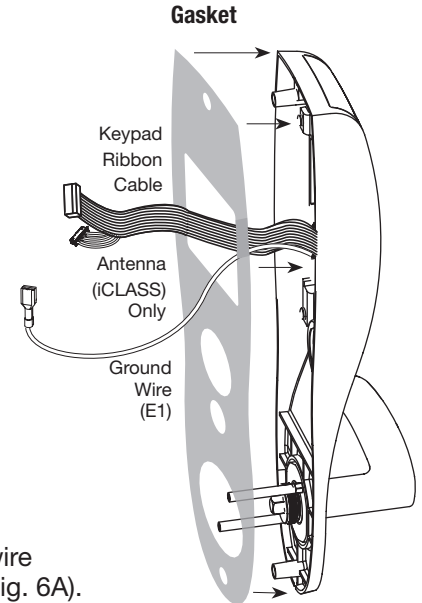
Ground Wire (E1)

Fig. 5B

Step #6 – Install Gasket (for Exterior Doors)

1A. For fire rated doors: feed ribbon cable with connector and ground wire from outside of door through weatherseal gasket and fire stop plate (Fig. 6A).

   Note: Install ribbon cable with cable exiting down

1B. For non-fire rated doors: feed ribbon cable with connector and ground wire from outside of door through weatherseal gasket (if used) and weather conduit (Fig. 6B).

   Note: Install ribbon cable with cable exiting down

2. With outside lever horizontal, locate the outside escutcheon on the door, while directing the mounting posts through the door and lock body (Fig. 6B).

   Make sure the lever spindle is properly engaged in lock.

7. On the inside of the door, insert spindle into square hole of mortise lock.

8. Slide inside adapter and plate assembly over spindle and loosely secure with 2 through -bolt screws (#8-32 x 5/8").

   Note: For 8276 and 8278, loosely thread cylinder through escutcheon and into the lock body before tightening the lock case screws and escutcheon through bolts.
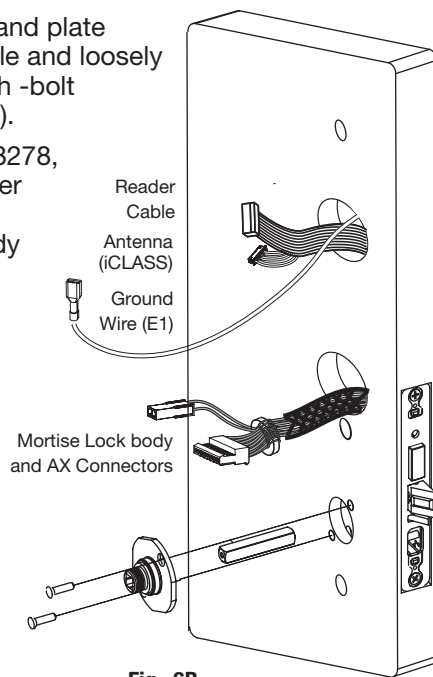
Reader Cable

Antenna (iCLASS)

Ground Wire (E1)

Mortise Lock body and AX Connectors

Ground Wire (E1)

Antenna (iCLASS only)

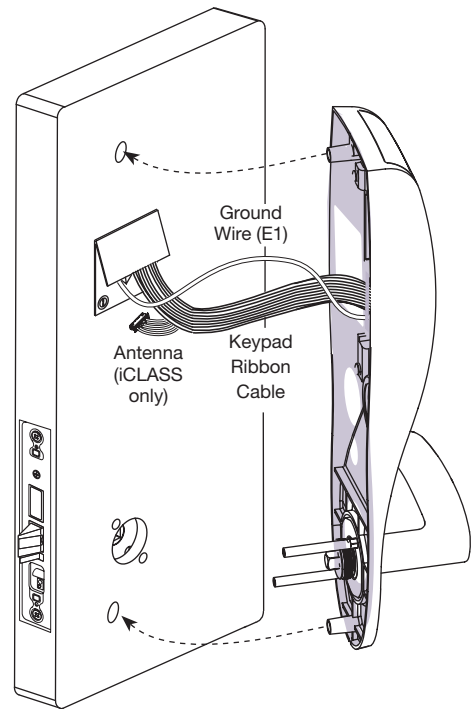Keypad Ribbon Cable

Fig. 6A
Outside of Door

Fig. 6B
Inside of Door

Step #7 – Inside Escutcheon Wire Connections

Images are shown without gasket. If gasket is necessary, refer to Step #5.

Before the controller is attached to the door:

1. Attach the reader assembly ribbon cable into the back of the controller assembly (side that faces towards the door when mounted (Fig. 7A).

2. Attach the antenna to the circuit board in the plastic housing under the controller assembly.

    Note: The difference between the wiring for the iCLASS 13.56 MHz reader and the 125 kHz Prox is that the iCLASS wiring includes an antenna wire.

3. Attach the ground wire to the bottom of the controller assembly (E1).

Outside Escutcheon

Reader Ribbon Cable

Antenna (iCLASS)

Ground Wire

Reader Cable

Antenna (iCLASS)
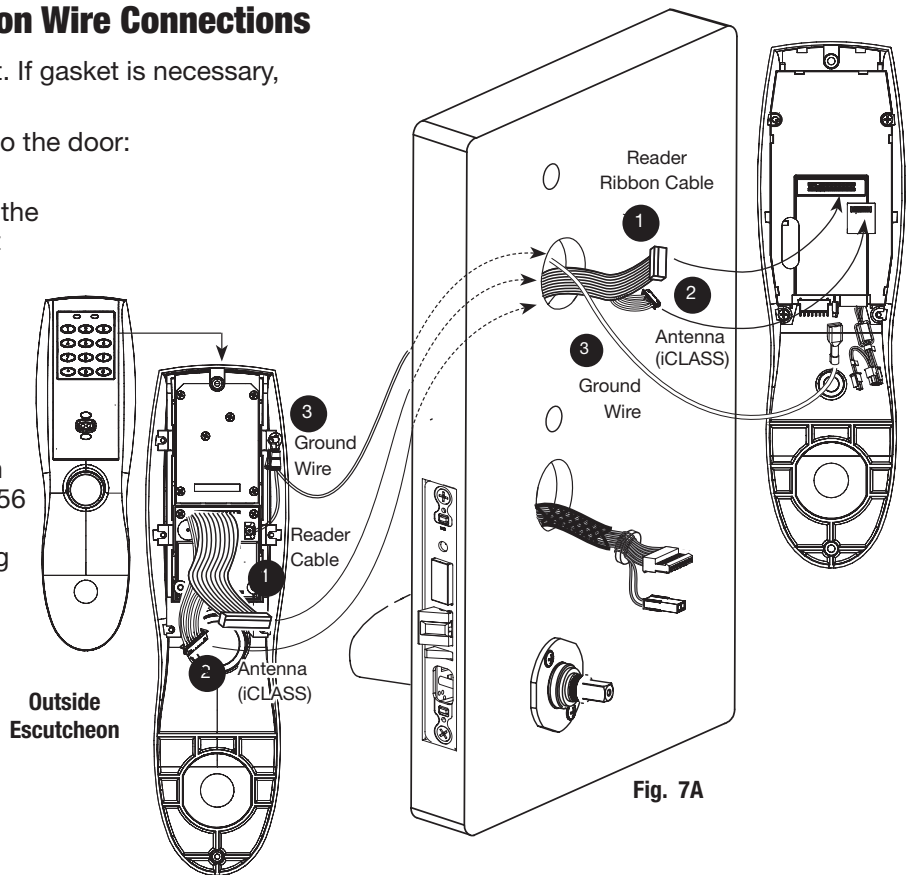
Fig. 7A

Step #8 – Lock Wire Connections

1. Connect the cable from the mortise lock to the bottom of the controller assembly (TB1, Fig. 8A).

2. Connect the AX/DPS connector to the 2-pin harness.

Reader Ribbon Cable

Antenna

TB1

Ground Wire

Unused

Outside Escutcheon

Mortise Connector

AX/DPS

Back

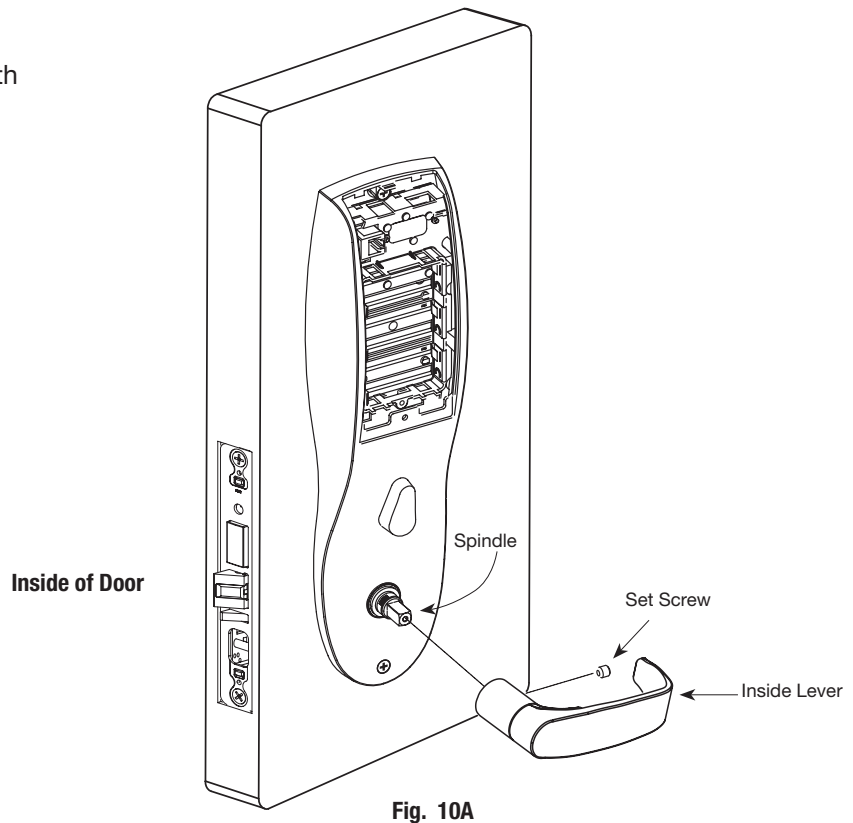**Inside of Door**

Fig. 8A

01/29/11
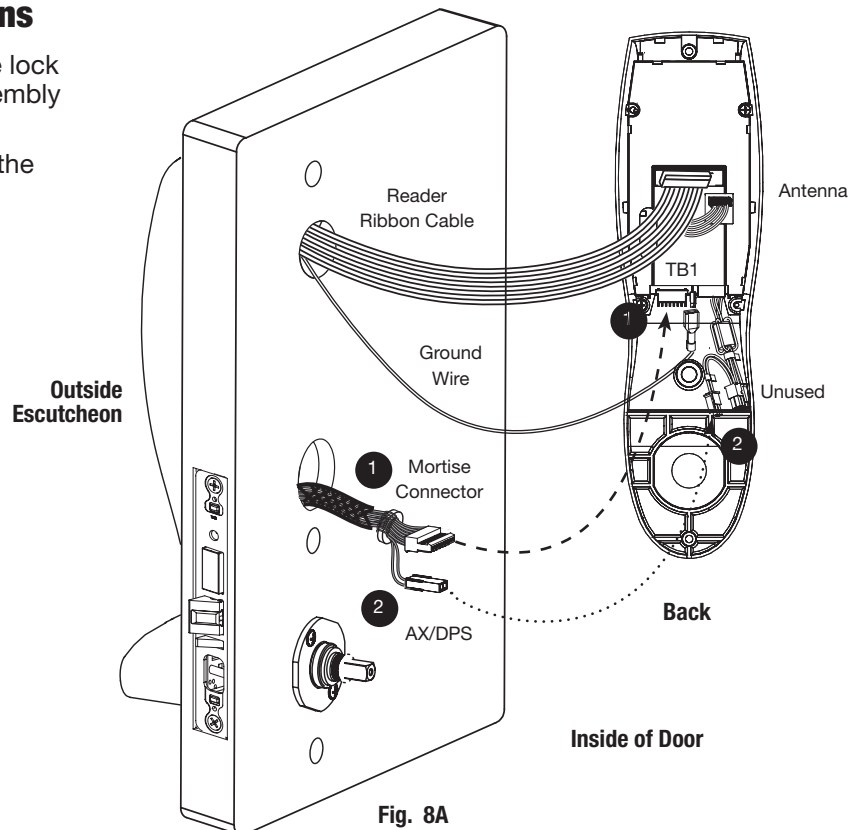
Step #9 – Install Inside Escutcheon

1. Gently fold the excess ribbon connector and ground wire into the top hole, JST connectors and ground wire into offset middle hole, and mortise and AX/DPS wires into bottom hole, being careful not to pinch wires (Fig. 9A).

2. Insert (2) #8-32 x 1-1/4" screws through inside escutcheon and thread into outside escutcheon.

   Straighten escutcheons and tighten securely.

Inside of Door

Fig. 9A
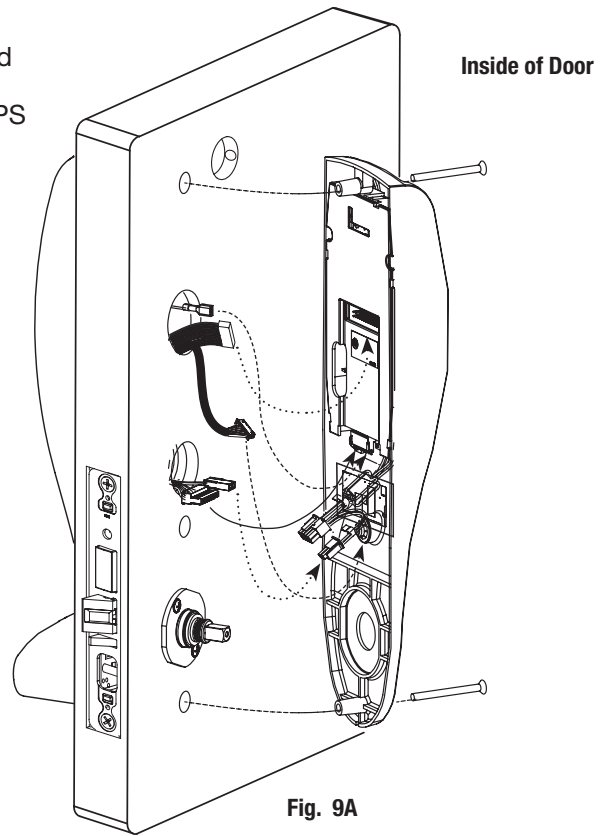
Step #10 – Install Inside Lever

1. Slide lever handle onto spindle until fully seated (Fig. 10A).

2. Tighten the set screw securely with 1/8" hex wrench.

Inside of Door

Spindle

Set Screw

Inside Lever

Fig. 10A

01/29/11

ASSA ABLOY, the global leader in door opening solutions

Step #11 – Install and Secure Cylinder

1. Slide cylinder through the spring and rosette/collar and screw into lockbody, rotating the cylinder clockwise (Fig. 11A).

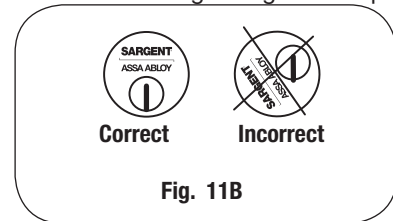   Cylinder should be flush with escutcheon.

   Note: The 43 cylinder may be used when installing this product with or without a gasket.

   Note: SARGENT logo must be horizontal and on the top of the cylinder (Fig. 11B).
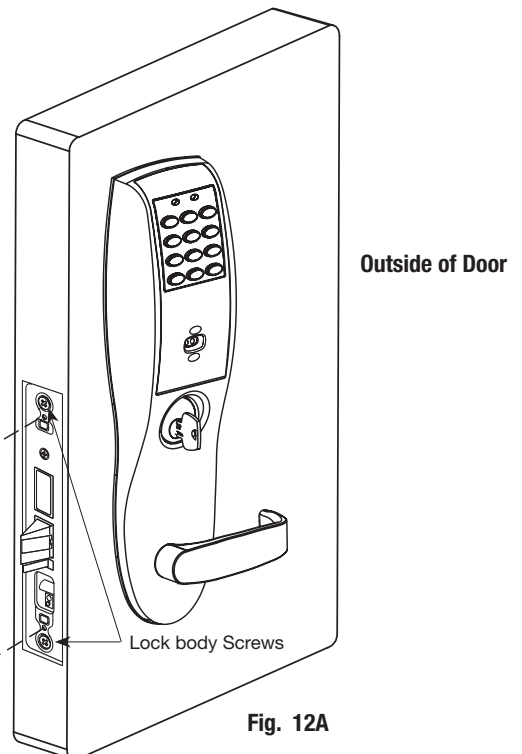
2. Secure the cylinder by tightening cylinder clamp screw located above the deadbolt using #2 Phillips screwdriver (Fig. 11C).

3. Using the key, test cylinder functions:

   • 8278 Function: Key retracts latch.

   • 8276 Function: Key retracts latch and projects and retracts deadbolt.

Outside of Door

Type 43 Cylinder

Key

Fig. 11A
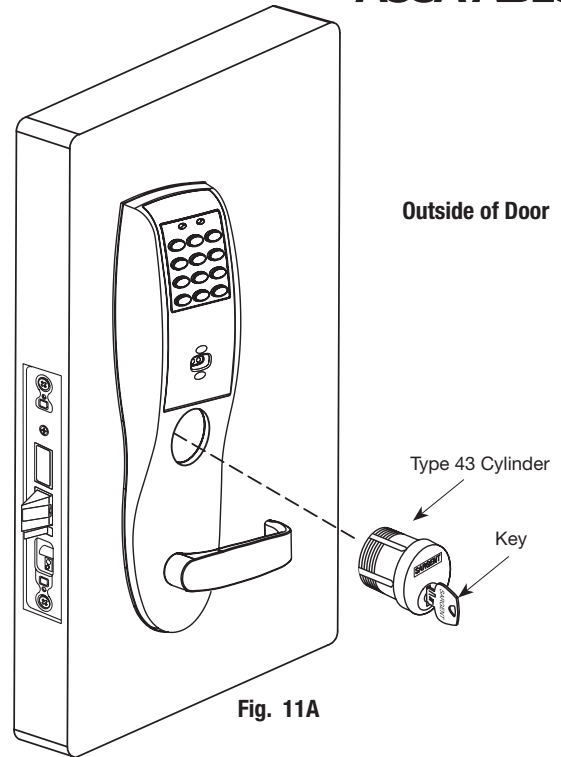
Position cylinder so that the SARGENT logo is right-side up.

SARGENT
ASSA ABLOY

Correct   Incorrect

Fig. 11B

Cylinder Clamp Screw

#2 Phillips Screwdriver

Fig. 11C

Outside of Door

Outside of Door
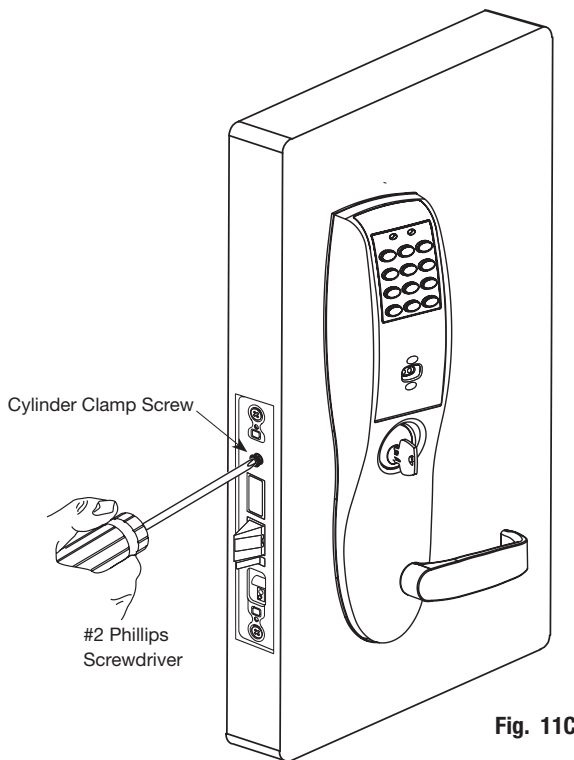
Front Plate

(2) Flat Head Screws

Step #12 – Attach Front Plate

Attach front plate with (2) flat head screws.

Lock body Screws

Fig. 12A

01/29/11

Step #13 – Install (or Replace) Batteries

IMPORTANT: Batteries are optional if controller is powered by external power supply.

1. To install or replace batteries, first remove the battery cover (if necessary) using the provided security tool (Fig.13A).

2. Unscrew the bottom screw of the battery keeper and remove the battery keeper, being careful not to break the tabs at top that hold it in place (Fig.13B)

3. Place (6) "AA" alkaline batteries in the compartment, being careful to align polarity properly.

4. Replace battery keeper being careful to engage tabs at top to hold it in place (Fig. 13B).

5. Attach battery cover to inside escutcheon, making sure to line up tabs with retaining slots in battery cover.

6. Secure with the security screw using tool. (Fig. 13A).

Fig. 13B

Battery Cover

Security Tool (01-029)

Security Screw

Fig. 13A

Inside of Door

Tabs

Retaining Slots

Fig. 13C
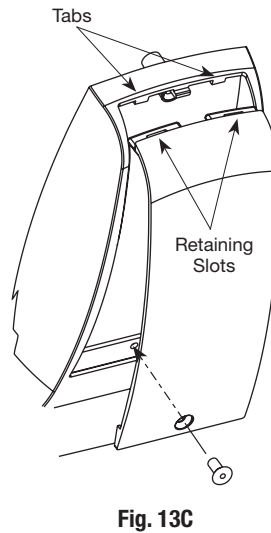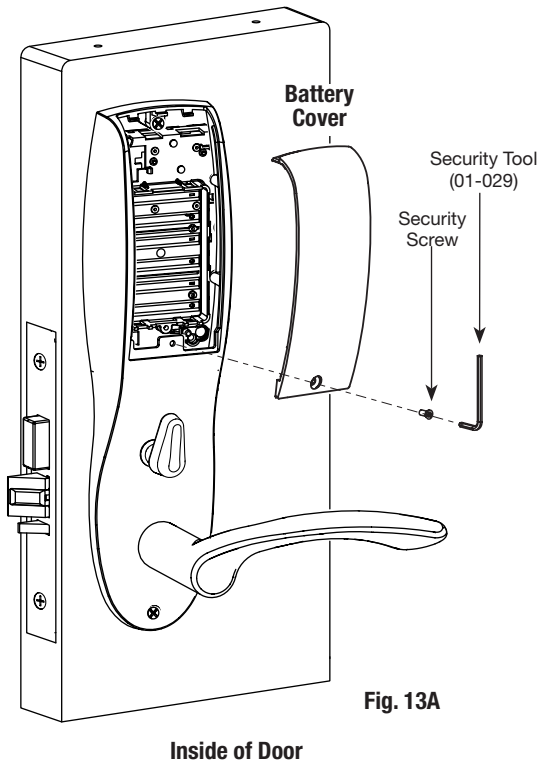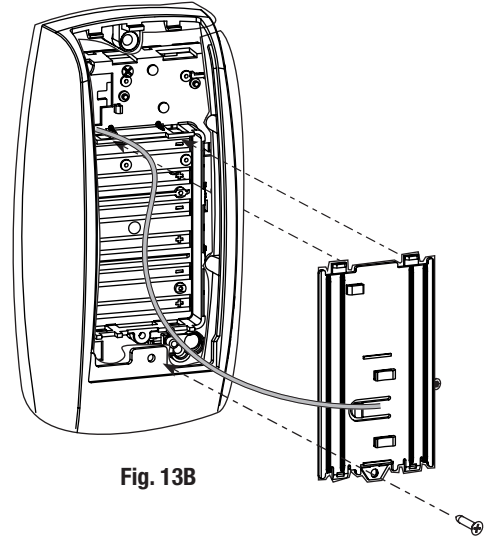
⑨ Operational Check

For 8276 and 8278 Function mortise locks with cylinders:

1. Insert key into cylinder and rotate (There should be no friction against lock case, wire harness or any other obstructions.

   Refer to Section 7, Step 8 if harness friction exists).

2. The key will retract the latch.

   Key should rotate freely.

3. If the deadbolt is thrown, the key will retract both the deadbolt and the latch.

4. Inside lever retracts latch and deadbolt (if provided).

5. Use a 13.56 MHz credential, 125 kHz proximity credential, or keypad PIN code set up with the **Lock Configuration Tool** to unlock outside lever and retract latch.

   Refer to **Network and Lock Configuration Tool** user manual (**WFMN1D**) for information on how to configure and program v.S2 locks.
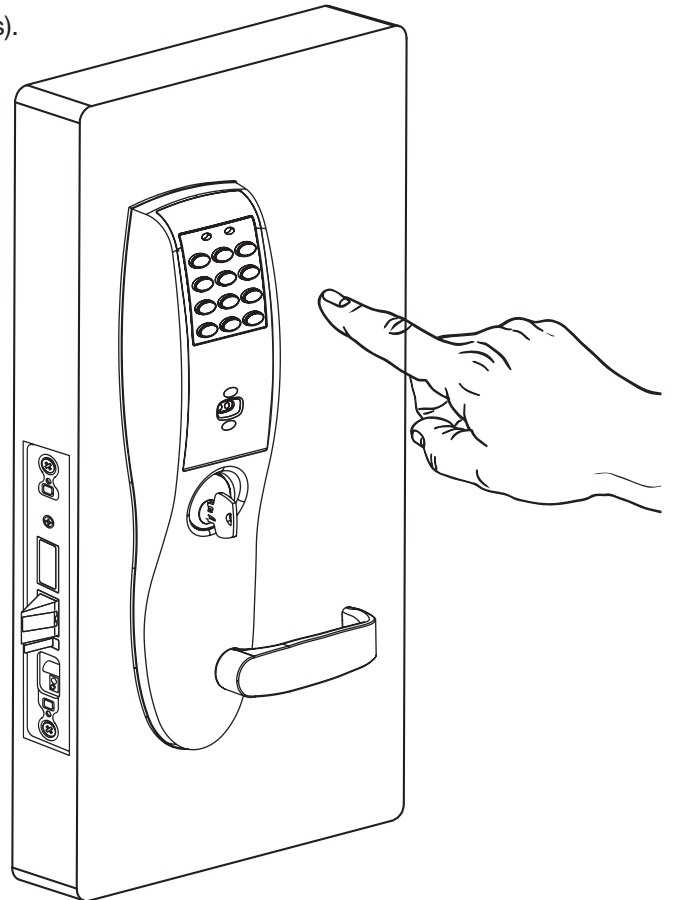
SARGENT®

ASSA ABLOY

SARGENT Manufacturing
100 Sargent Drive
New Haven, CT 06511 USA
800-810-WIRE (9473) • www.sargentlock.com

A7786E-01/11