**Corbin Russwin**
ASSA ABLOY

**Installation Instructions
for CL33800 TCAC2 Series
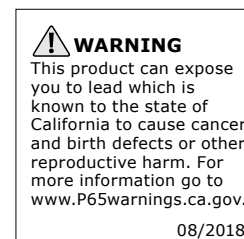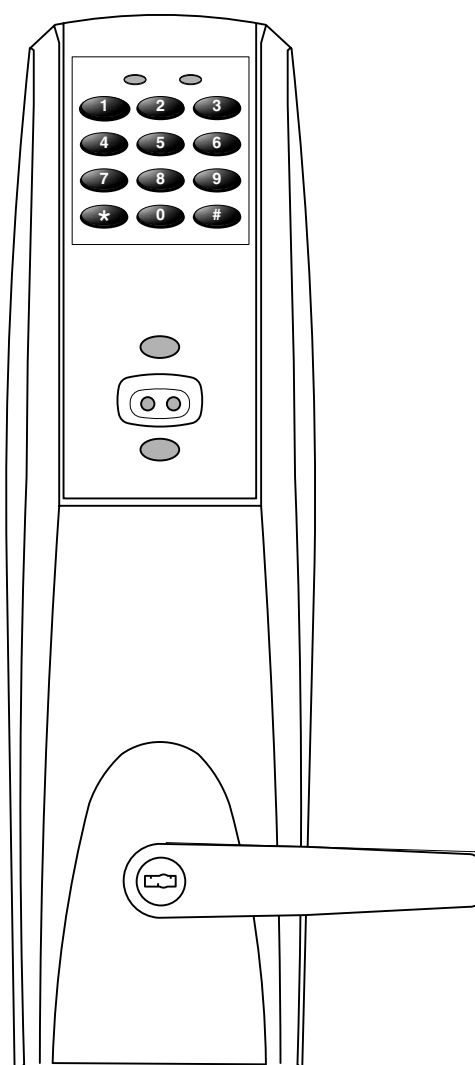Cylindrical Lockset**

Access 800® AC2

FM223   10/18

# Attention Installer

Please read these instructions carefully to prevent missing important Steps.
**Please Note:** Improper installations may result in damage to the lock and void the factory warranty.

**Important:** The accuracy of the door preparation is critical for proper functioning and security of this lock. Misalignment can cause premature wear and a lessening of security.



**CAUTION**
DOOR MUST REMAIN OPEN
DURING INSTALLATION.
USE DOOR STOP.

TEST
FOR PROPER
OPERATION
BEFORE
CLOSING
DOOR

⚠ **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.

08/2018

For installation assistance contact Corbin Russwin Inc., at 1-800-810-WIRE (9473)

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# Table of Contents

# 1) Warning

> 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.

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: 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 the 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 TV technician for help

This Class B digital apparatus complies with Canadian ICES-003.

⚠ **WARNING: To comply with "Fire Listed" doors, only alkaline batteries must be used.**

## General Description

The Access 800 Cylindrical Lock is designed for areas which require stand alone authorized entry. It is a self- contained microprocessor-controlled keypad with non-volatile memory. The keypad will hold a total of 100(M800)/2000 (M801, M802, M803, M804, M805, M806) different user codes. User codes "01", "02" and "03" are utilized for Master, Emergency and Supervisory Codes respectively. This product is operated by six (6) "AA" alkaline batteries. Corbin Russwin Inc. locks are designed with quality components to provide high security, performance and durability.

## Specifications

- Latch – 1/2" standard
       3/4" throw fire rated double doors
       (optional) (M16- prefix)
- Deadlocking latch
- Cylinder override
- Outside lever controlled by keypad,
  or key retracts latch

- Inside lever retracts latch
- Locks furnished for 1-3/4" to 2" doors
- U.L. Listed
- For 2-1/4" doors specify option D214

## Features

- Non volatile memory
- Motor driven, locking mechanism
- Battery operated with 6 "AA" Alkaline
- Cylinder override
- Low battery alert–4 chirps after standard
  user code entry
- External remote "request to enter" connector
- Master, Emergency or Supervisory code will
   unlock door when low battery has expired
- Programming done at the keypad (Except
  M802 & M805) or with a PDA using
  Accessware™ with Access HH Software
- RF Fob and Proximity Card, Tag, Fob are
  optional

- Operates utilizing any two to six digits per
   code. Digits may be repeated and codes
   may start with zero
- Entry of a programmable number of wrong
   User Codes disables all codes for a
   programmable number of seconds
   Yellow LED on solid
- M800 allows last 15 transactions to be
   output to portable printer via infrared link
- M801 - M806 allows last 2000 transactions to
   be output to a PC via a PDA and Accessware
   software

Weather Gaskets
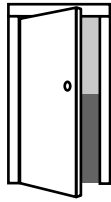M99 Gaskets Only

REX
Connector
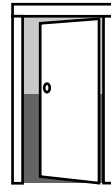on M861
option
Only
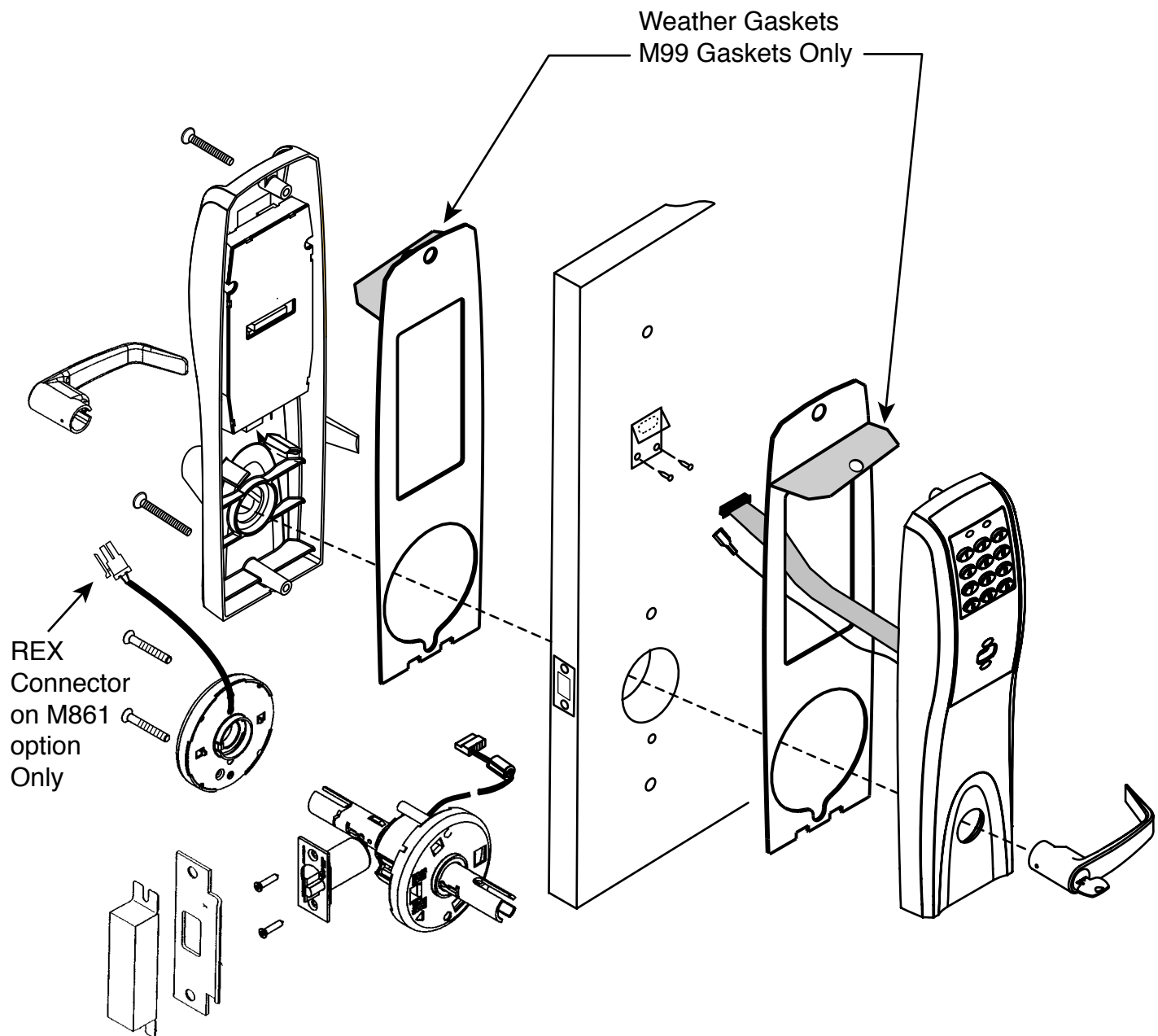
# 4) Installation Instructions

**1** Verify Hand and Bevel of door. Illustrations shown are as viewed from the outside or secure side of opening.
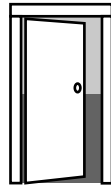
Left Hand
Hinges Left.
Open Inward.
"LH"

Left Hand
Reverse Bevel
Hinges Left.
Open Outward
"LHR"

Right Hand
Hinges Right.
Open Inward.
"RH"
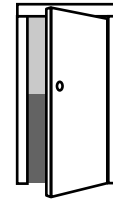
Right Hand
Reverse Bevel
Hinges Right.
Open Outward
"RHR"

**2** Prep door according to supplied Corbin Russwin Inc. door marker.

7/8"

Hole for ribbon cable

1/8" Dia. holes
(2) required

℄ of 1-1/2 Dia.

Fire Stop Plate required
for fire rated doors

Slot

1-1/2

Outside
of Door

Attach Fire Stop Plate
Using self tapping screws
#8-32x1/2" long for wood &
metal doors
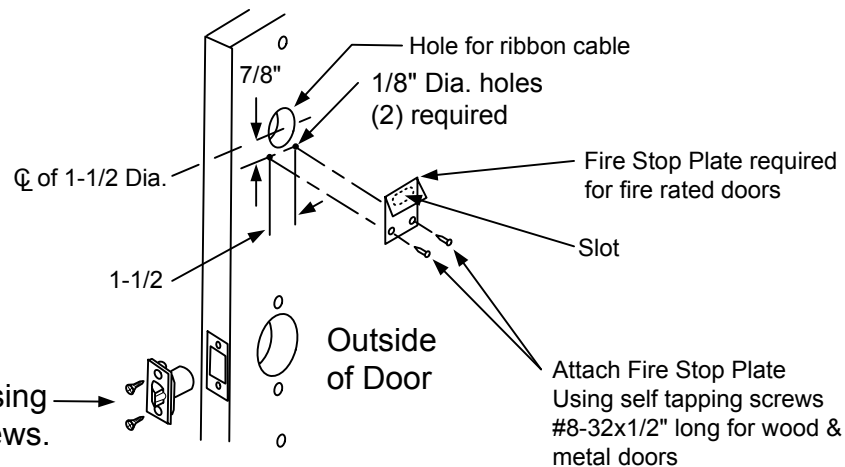
**3** Install latch bolt using two # 8x3/4" screws.

**4** Install Strike Plate using two # 8-32x3/4" screws.

Screws
#8-32x3/4"

Centerline of
latch front
and strike

Conduit (optional) is available
to provide weather protection
for exterior applications.
Install conduit half with
recessed panel ìNot For Use
On Fire Doorî visible from
outside of door.

Hole for
ribbon
Cable

NOT FOR USE ON FIRE DOOR

Outside
of Door

Latch Bolt
door prep

Lockbody
hole

Pre-drilled
And/or tapped
Holes 2 places
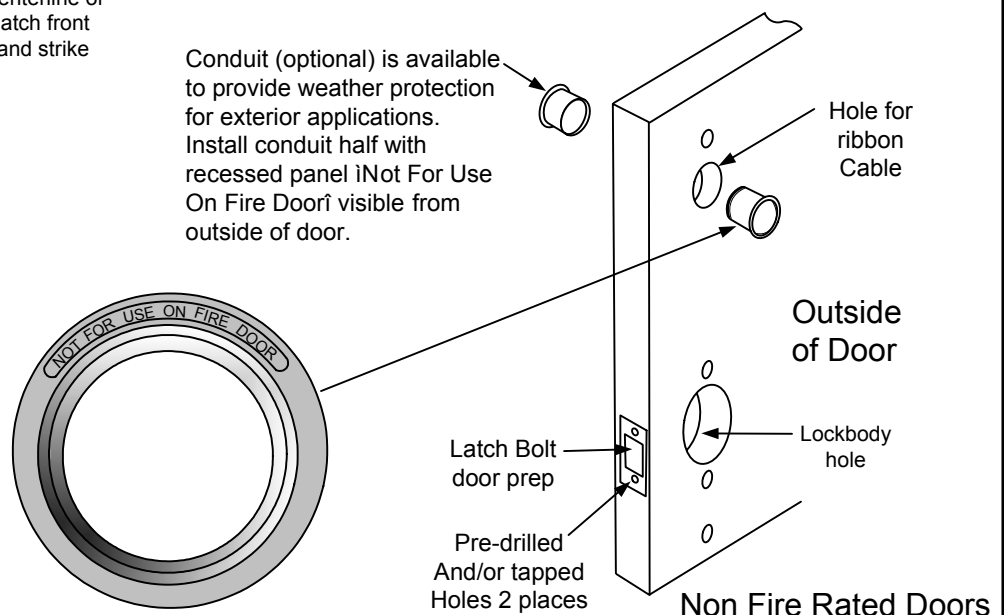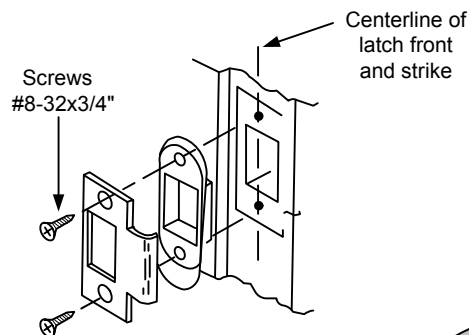
Non Fire Rated Doors

**5**  **Installing chassis to Door**

Feed lockbody wire harness through 2-1/8" diameter lockbody hole and then install lockbody into door.

Inside of door

Harness slot

Tighten latch assembly screws
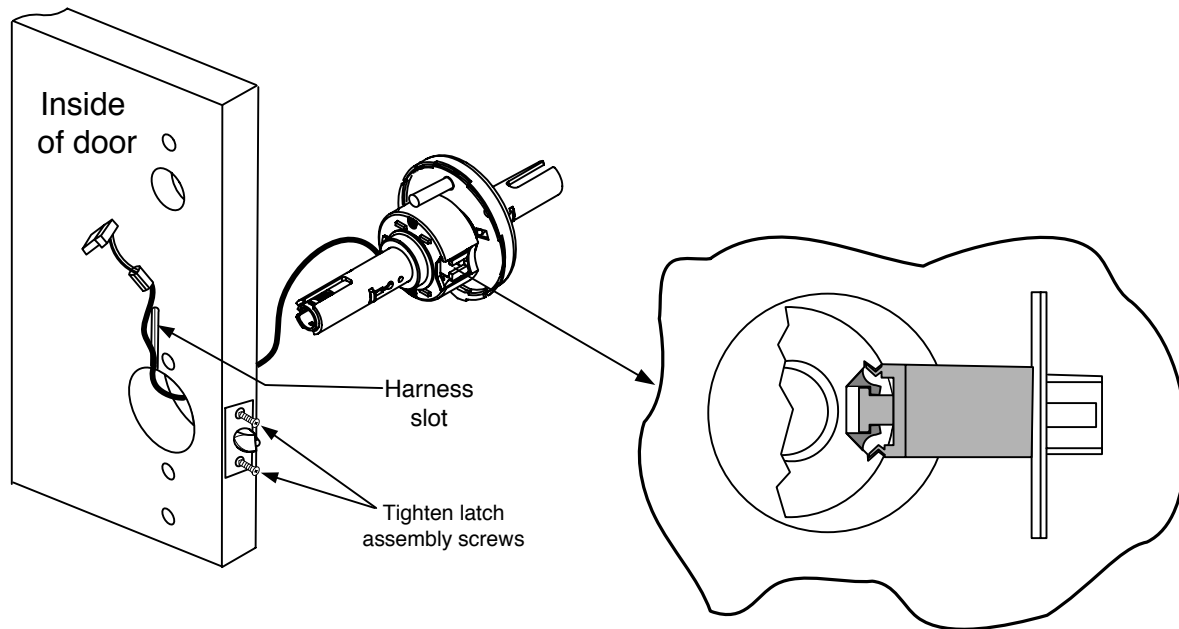
**6**  Insure lockbody wire harness is positioned in the vertical slot. Attach inside cassette housing and secure with screws.

Inside of door

Feed wires and Connector if Metal door

Wire should come out between edge of cassette

I/S Cassette Housing
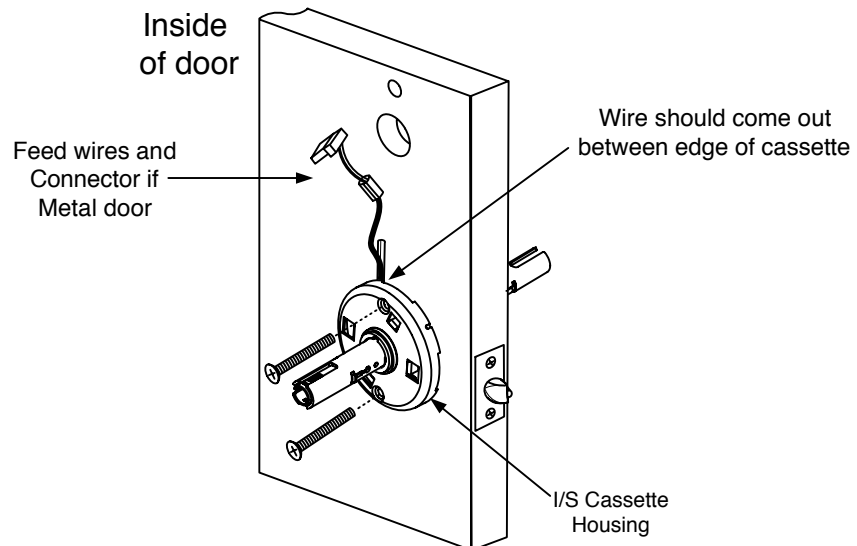
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**7**  ## Outside Escutcheon Installation

1A. For fire rated doors feed ribbon cable connector and ground wire from outside escutcheon through the fire stop plate.

1B. For non-fire rated door applications, optional gaskets may be used as a weather seal between the escutcheon and the door surfaces. An optional conduit is also available for further protection. Feed ribbon cable connector and ground through the conduit (if used).

2. Slide the outside escutcheon over the lock, and hold the escutcheon to the door surface.

**C A U T I O N**
DOOR MUST REMAIN OPEN
DURING INSTALLATION.
USE DOOR STOP.

**GASKET APPLICATION:**
**Peel off the adhesive protective paper from gasket. Feed Keypad ribbon cable and ground wire through gasket opening as shown and firmly press gasket to escutcheon, aligning edge of gasket with the edge of the escutcheon.**

Gasket
(optional)
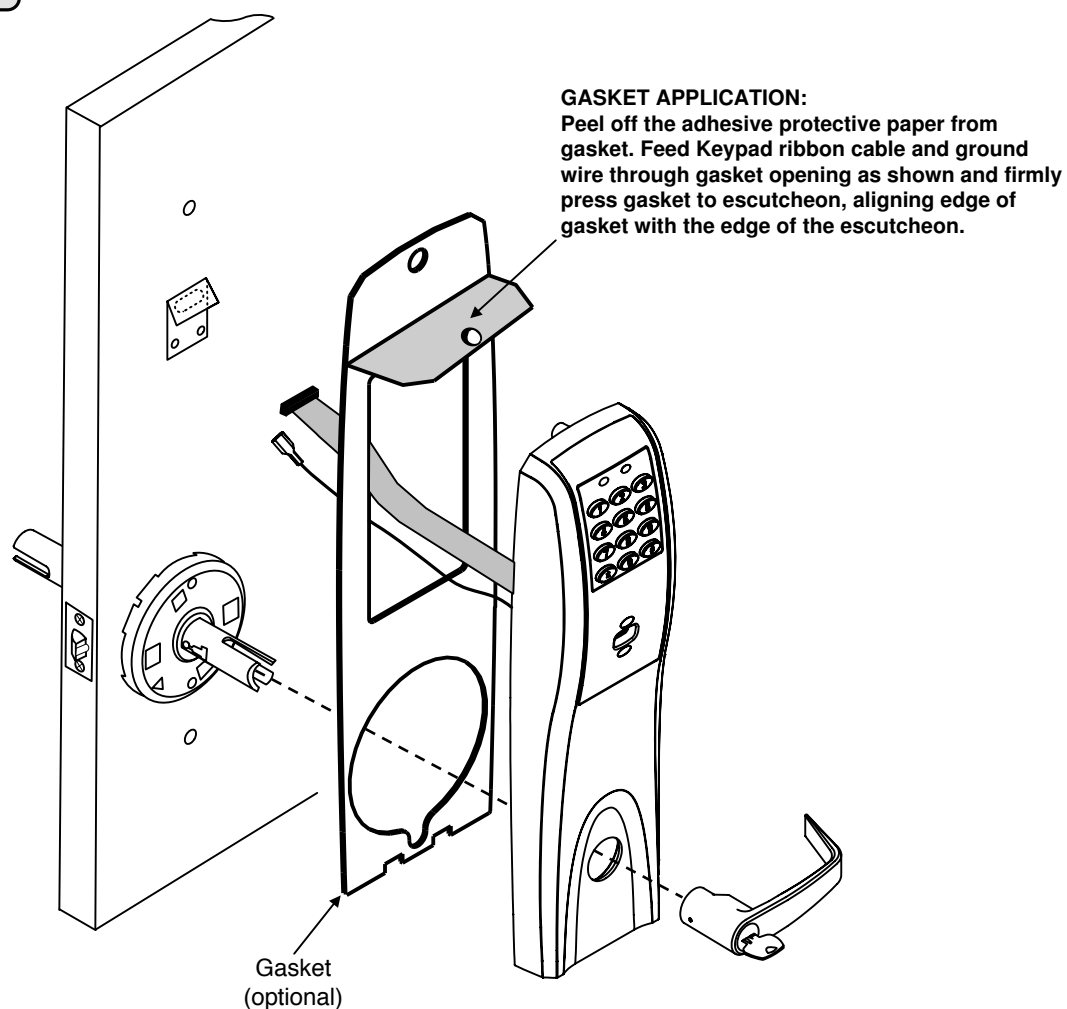
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**8** **Inside Escutcheon installation and Electrical connections**

1. Remove black battery cover from the escutcheon with High Security T20 Torx bit provided.
2. Connect ground wire to terminal, connect keypad ribbon cable to controller, and connect lock body motor harness to motor connector.
3. Feed all excess wire through inside door hole and/into outside escutcheon cavity, being careful not to pinch wires.

**NOTE: Connectors go on only one way, do not offset connector and be sure they are completely seated.**

4. Insert 2 #10 x 24 screws through top and bottom of inside escutcheon (use painted screw on top) and thread into outside escutcheon. Straighten escutcheons and tighten securely, being careful to avoid pinching wires.
5. Slide the Inside Lever onto the tube.

**NOTE: For RF Technology versions refer to Section 5 to install through-bolt screws.**



**C A U T I O N**
DOOR MUST REMAIN OPEN DURING INSTALLATION. USE DOOR STOP.

Locate (2) oval head screws and insert through the Escutcheon into the outside Escutcheon. Tighten firmly.

**\*Use screw with painted white head in top Hole. Failure to do this will result in damage to electronics.**

# 10 x 24 oval head screw

# 10 x 24 oval head screw

Gasket (optional)

Motor connector

Keypad ribbon cable

Remote Power Connector (M35 Remote Power Wiring Harness also available as part No. 793F069)

Lockbody harness

Ground Terminal

Red & Black wires

Keypad ribbon cable

Inside of door

Ground wire
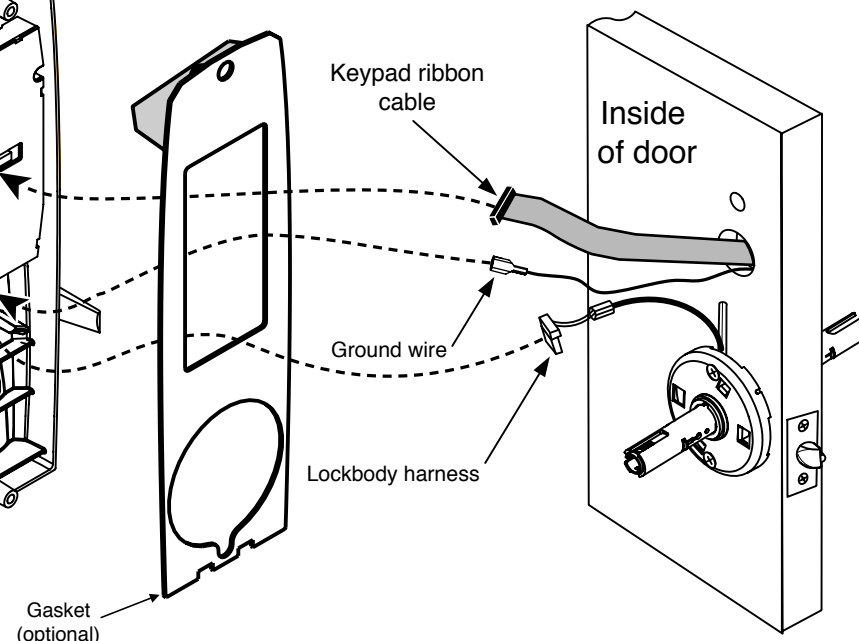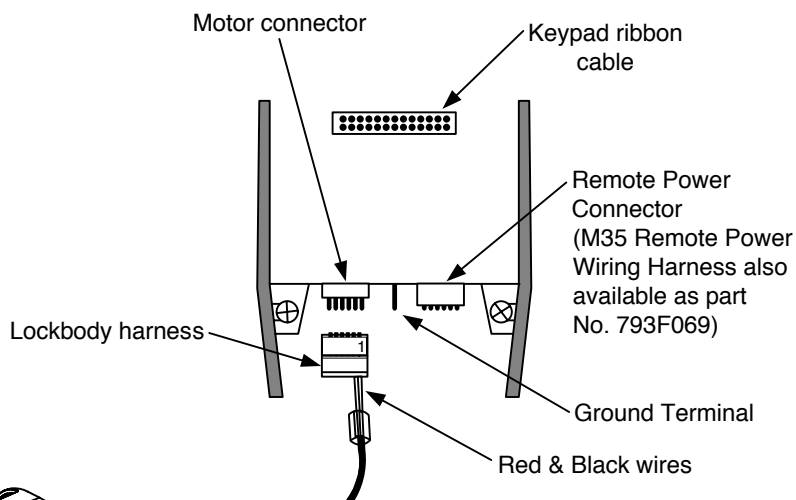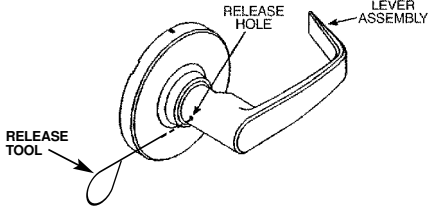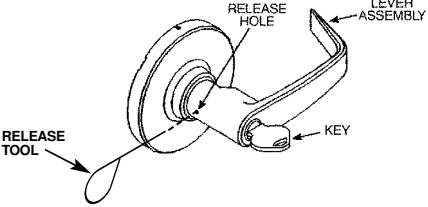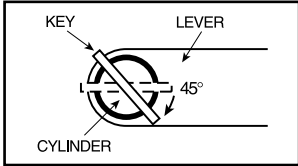
Lockbody harness

**9** **Installation and removal of Lever and Standard Cylinder**

| LEVER STYLE | REMOVAL | INSTALL |
|---|---|---|
| PLAIN LEVER  | PUSH RELEASE TOOL<br><br>Push release tool<br>Into release hole,<br>Remove lever | SLIDE LEVER OVER<br><br>Slide lever over<br>Lever catch<br>Pull on lever.<br>***Make sure lever<br>will not pull off*** |
| CYLINDER LEVER  | ROTATE KEY<br><br>Rotate key 45 clockwise<br>(from shed position),<br>Push in release tool into<br>Release hole, remove lever<br> | INSERT KEY AND ROTATE<br><br>Insert key and rotate<br>45 (from Shed position),<br>slide lever on<br>***Make sure lever will<br>not pull off*** |

## Install Standard Cylinder

**Make sure lock is unlocked.**

**A.** Make sure cylinder tailpiece is aligned in same direction as cylinder bible. Slide cylinder all the way into lever.

**For 6 pin cylinder:** Fold retainer at hinge and press fit retainer halves together as shown.

**For 7 pin cylinder:** Break retainer at hinge and discard spacer section. Also remove black cylinder spacer from inside of chassis rollback for clearance.
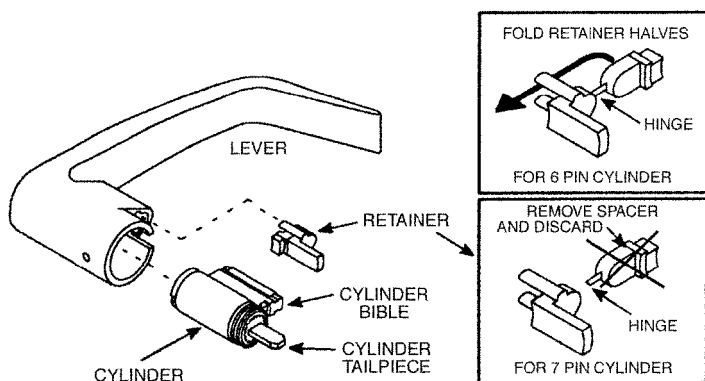


**Standard Cylinder Tailpieces**
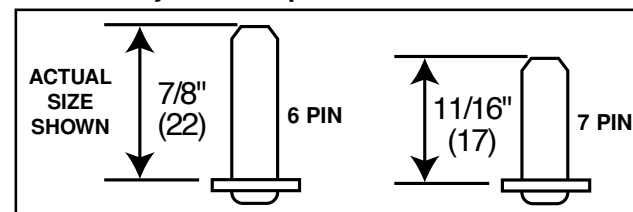


Dimensions are given in inches (mm).

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## 10 Battery Installation

1. Remove battery keeper by lifting top tab and pulling away from the unit.
2. Install (6) AA Batteries into controller compartment being careful to align +/- polarity properly.
3. Install Battery Keeper by first inserting bottom tabs in bottom slots of controller. Lift the top tab over batteries and snap into position.
4. Attach battery cover to inside controller escutcheon making sure to line up tabs with retaining slots in battery cover. Secure with security screw using security bit T20.
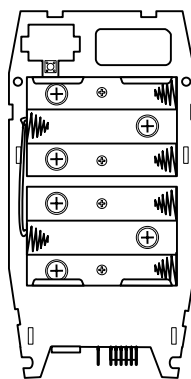
Battery Polarity
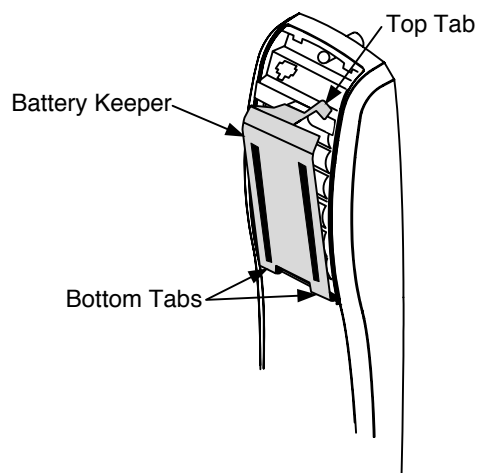
Top Tab

Battery Keeper

Bottom Tabs

**CAUTION**

DOOR MUST REMAIN OPEN DURING INSTALLATION. USE DOOR STOP.

TEST FOR PROPER OPERATION BEFORE CLOSING DOOR

Tabs

Retaining Slots

Security Screw

T20 bit
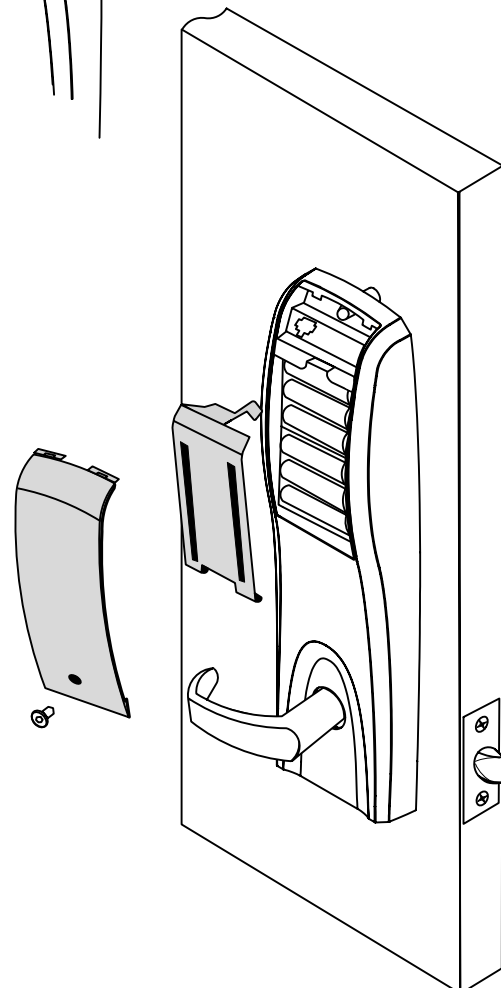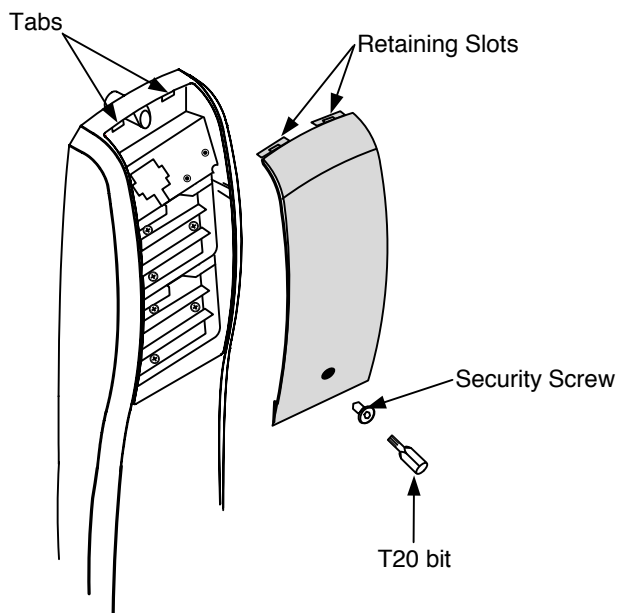
**11** **The RF Technology Lock (M804, M805, M806) is installed as described in section 4 with the following exceptions:**

      Installation of the top through-bolt screw

      Removal procedure for the battery keeper

**1. Installation of the top through-bolt screw:**

The antenna board must be carefully moved to access the upper through-bolt screw. Care should be taken to  prevent damage to the antenna retaining tabs during this process.

Press the two tabs away from the antenna board and lift the board off the mounting posts. Insert the oval head through-bolt and secure the escutcheon in place. After tightening the top through-bolt, replace the antenna board by placing it on the mounting posts and pressing into the retaining tabs.

**2. Removal and Installation Procedure for Battery Keeper**

To remove the battery keeper, a flat blade screwdriver or similar tool must be used. Insert screwdriver into slot at top of battery keeper. Lift up and pull the top of the keeper away from the batteries.

To install the battery keeper insert bottom tabs in bottom slots of controller, then press keeper over batteries and snap into position.

Flathead thru-bolt
**\* Use screw with painted head**
**Failure to do so will result in damage to electronics**

Antenna circuit board

Mounting Posts

Retaining Tabs

Battery Keeper

Screwdriver slot

Bottom Slots

**C A U T I O N**
DOOR MUST REMAIN OPEN
DURING INSTALLATION.
USE DOOR STOP.

TEST
FOR PROPER
OPERATION
BEFORE
CLOSING
DOOR
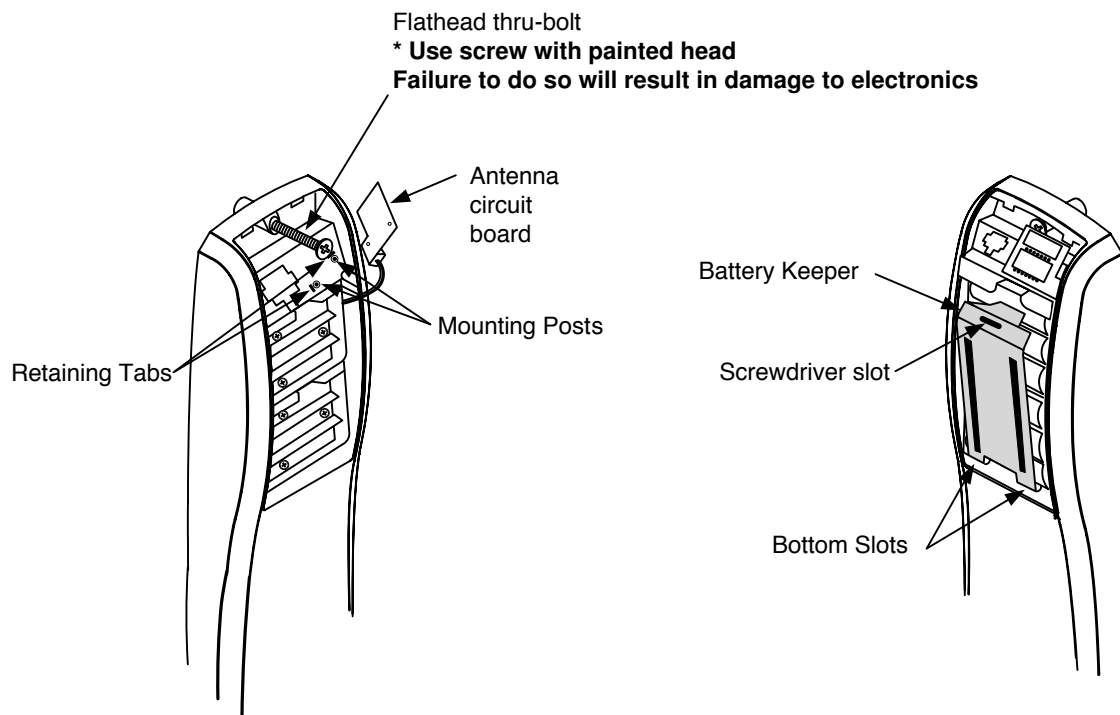
**12** **Lock Operational Check For devices with cylinders:**

1. Insert key into cylinder and rotate.

2. The key will retract the latch.

3. Enter 1234∗ to unlock outside lever.

4. If lock is prox only (M802) or RF Technology with prox (M805) - refer to keypad programming instructions (FM226) to program lock using Accessware software.

**C A U T I O N**
DOOR MUST REMAIN OPEN
DURING INSTALLATION.
USE DOOR STOP.

TEST
FOR PROPER
OPERATION
BEFORE
CLOSING
DOOR

# 7) Hard Wiring Instructions

**Hardwiring options include one or a combination of the following: M861 Forced Door Propped Door Option, M35 Power/Remote Unlocking Harness**

## 7.1)     Important

1. Caution:  disconnect all input power before beginning installation to prevent electrical shock and equipment damage.
2. Installer must be a trained, experienced service person.
3. All wiring must comply with applicable local electrical codes, ordinances and regulations.

## 7.2)     Installation Notes

1. With new applications, an ElectroLynx® door harness with 8 and 4 pin connectors will be pre-installed inside door by ASSA ABLOY door manufacturer when specified during ordering process.
2. Wiring to pigtail harness is per facility wiring requirement. ElectroLynx® connector terminations and wire colors all match.
3. If door does not have an ElectroLynx® type door harness, cut connectors off product and hard wire, or consult factory for appropriate mating harness.

## 7.3)     ElectroLynx® Connector System Notes:

The system is designed to be installation friendly with pluggable connectors from the electric hinge through the door to the rail. The only wiring required is to the loose wires on the pigtail harness assembly on the frame side of the electric hinge.

IMPORTANT:
The plug and receptacle connectors are designed to mate and lock together as shown in the figure. Plug the connectors into each other with the locking mechanism aligned as indicated.
Do NOT Force connectors on any other way.

**Locking Mechanism**

**Receptacle**                **Plug**
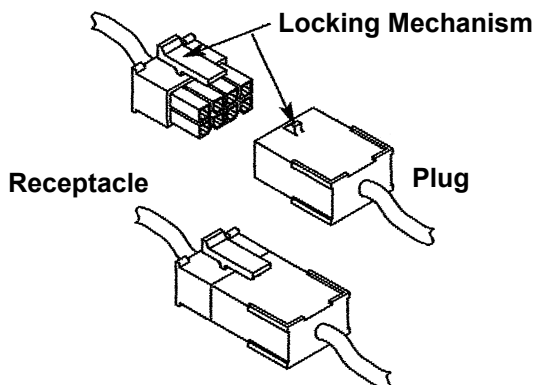
*Hardwiring Made Easy* ®

**ELECTRO Lynx** ®

As part of their promise to provide innovative, fast and effective high security solutions to their customers, ASSA ABLOY Group companies offer ElectroLynx®, a universal quick-connect system that simplifies the electrification of the door opening.

ElectroLynx® is a registered trademark of ASSA ABLOY Inc.

## 7.4)    M861 Quick Code, Forced Door Propped Door Option.

**Door**

**Fig. 1**

Ⓓ

Ⓒ

**Inside Escutcheon**

Ⓐ

Ⓑ

Ⓑ

**Controller**

**Ground Tab**

**REX Connector TB2**

Ⓒ

**Outside Escutcheon**

**DPS Connector used for M861 Option**

Ⓑ

**(Exit Device Escutcheons Shown)**

**Motor Connector TB1**

**Fig. 2
Forced Door/Propped Door Option
ElectroLynx® Wiring System**

| +9 | (-) | REX | REX | Data Out | Data In | RTS | (EGND) |
|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

C

*NC

Ⓓ

**DPS Switch
*Wire for switch contact closure when door is opened. Typical locations shown in Fig. 1**

Red, 1
Black, 2
White, 3
Green, 4

**3 2 1**

4
Tan

3
Pink

White

Orange

**REX connector, connect to the connector coming from the device.
(See page 3)**

Ⓐ

**QC4A Electric Hinge with 4-pin connectors, and pigtail harness**

Ⓑ

**ElectroLynx Door Harness with 8 & 4-pin connectors. Harness location is dependent on door type.**

**M861 Forced Door, Propped Door Harness 4-pin connector**

## Installation:

1. ElectroLynx® System Wiring Instructions (refer to Fig. 1 and Fig. 2)
   a. Look for the mating part on ASSA ABLOY doors and frames. Then plug in all connectors as shown in Fig. 2 during product installation.
   b. Hard wire DPS switch as shown.
2. Non-ElectroLynx System Wiring Instructions (refer to Fig. 1 and Fig. 2)
   a. Cut the 4-pin connector off the Forced Door Propped Door harness and hard wire to ElectroLynx® two conductor door harness.
   b. Hard wire door harness to power transfer device.
   c. Hard wire DPS switch to power transfer device.

# 7) Hard Wiring Instructions

## 7.5) M35 Power/Remote Unlocking Harness.

**Door**

**6 AA batteries MUST be removed from controller if 784 Power supply is used.**

**Inside Escutcheon**

**Ground Tab**

**Remote Power and REX Connector TB2**

**Outside Escutcheon**

**784 9VDC Power Supply**

**-9 VDC**
**+9 VDC**
**EGND**

**120 VAC L/N/G**

**Motor Connector TB1**

**Normally Open momentary switch (Remote unlock - REX option)**

**Fig. 3 Power/Remote Unlocking ElectroLynx Wiring System**

**C** **NO**

| +9 | (-) | REX | REX | Data Out | Data In | RTS | (EGND) |
|----|-----|-----|-----|----------|---------|-----|--------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

**M35 Power/Remote Unlocking Harness**

Red | Black | White | Orange | Blue | Brown | Yellow | Green

Black, 1
Red, 2
White, 3
Green, 4
Orange, 5
Blue, 6
Brown, 7
Yellow, 8

**QC8 Electric Hinge with 8-pin connectors, 8 wires and pigtail harness**

**ElectroLynx Door Harness with 8 & 4-pin connectors. Harness location is dependent on door type.**

**REX Input Connect to Device. Only used in combination with the M861 Option. It may be left unconnected.**
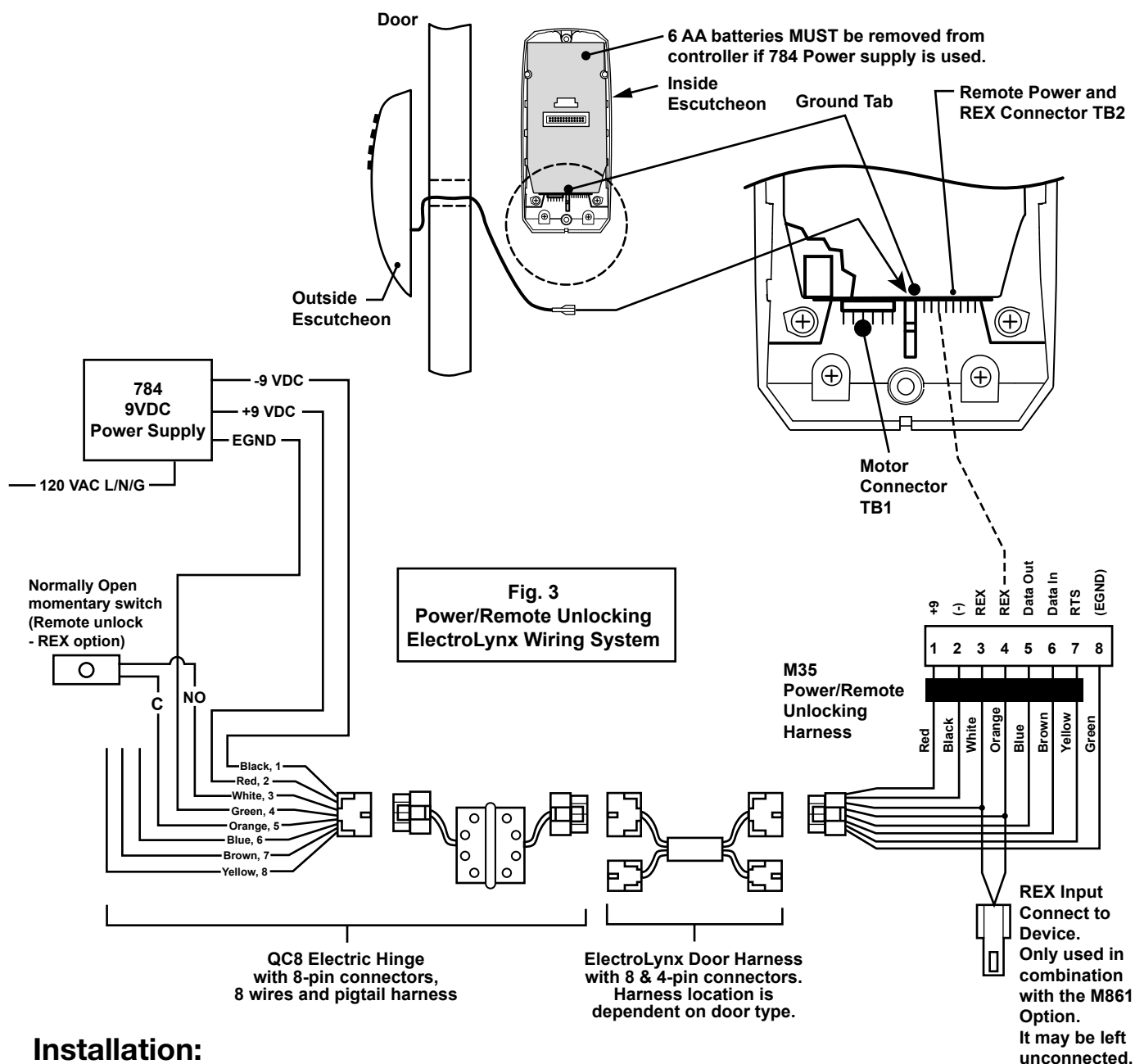
### Installation:

**1.** ElectroLynx® System Wiring Instructions (refer to Fig. 1 and Fig. 3)
  **a.** Look for the mating part on ASSA ABLOY doors and frames. Then plug in all connectors as shown in Fig. 3 during product installation.
  **b.** Hard wire 784 power supply as shown.

**2.** Non-ElectroLynx System Wiring Instructions (refer to Fig. 1 and Fig. 3)
  **a.** Cut the 8-pin connector off the Power/Remote Unlocking harness and hard wire to non-ElectroLynx door harness. Remote power requires three conductors and remote unlock requires two conductors.
  **b.** Hard wire door harness to power transfer device.
  **c.** Hard wire 784 power supply as shown.

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## 7.6) M35 Power/Remote Unlocking with M861 Propped Door, Forced Door.



Door

6 AA batteries MUST be removed from controller if 784 Power supply is used.

Inside Escutcheon

Controller

Ground Tab

Remote Power and REX Connector TB2

Outside Escutcheon

Motor Connector TB1

784 9VDC Power Supply

-9 VDC

+9 VDC

EGND

120 VAC L/N/G

Normally Open momentary switch (Remote unlock - REX option)

C    NO

Fig. 4
Power/Remote Unlocking
Forced Door, Propped Door
ElectroLynx Wiring System

M35 Power/Remote Unlocking Harness

+9  (-)  REX  REX  Data Out  Data In  RTS  (EGND)

1  2  3  4  5  6  7  8

Red  Black  White  Orange  Blue  Brown  Yellow  Green

Black, 1
Red, 2
White, 3
Green, 4
Orange, 5
Blue, 6
Brown, 7
Yellow, 8

C
*NC

DPS Switch
*Wire for switch contact closure when door is opened. Typical locations shown in Fig. 1

Red, 1
Black, 2
White, 3
Green, 4

QC12 Electric Hinge with 8 and 4-pin connectors, 12 wires and pigtail harness

ElectroLynx Door Harness with 8 & 4-pin connectors. Harness location is dependent on door type.

3 2 1

4
Tan

3
Pink

M861 Forced Door, Propped Door Harness 4-pin connector
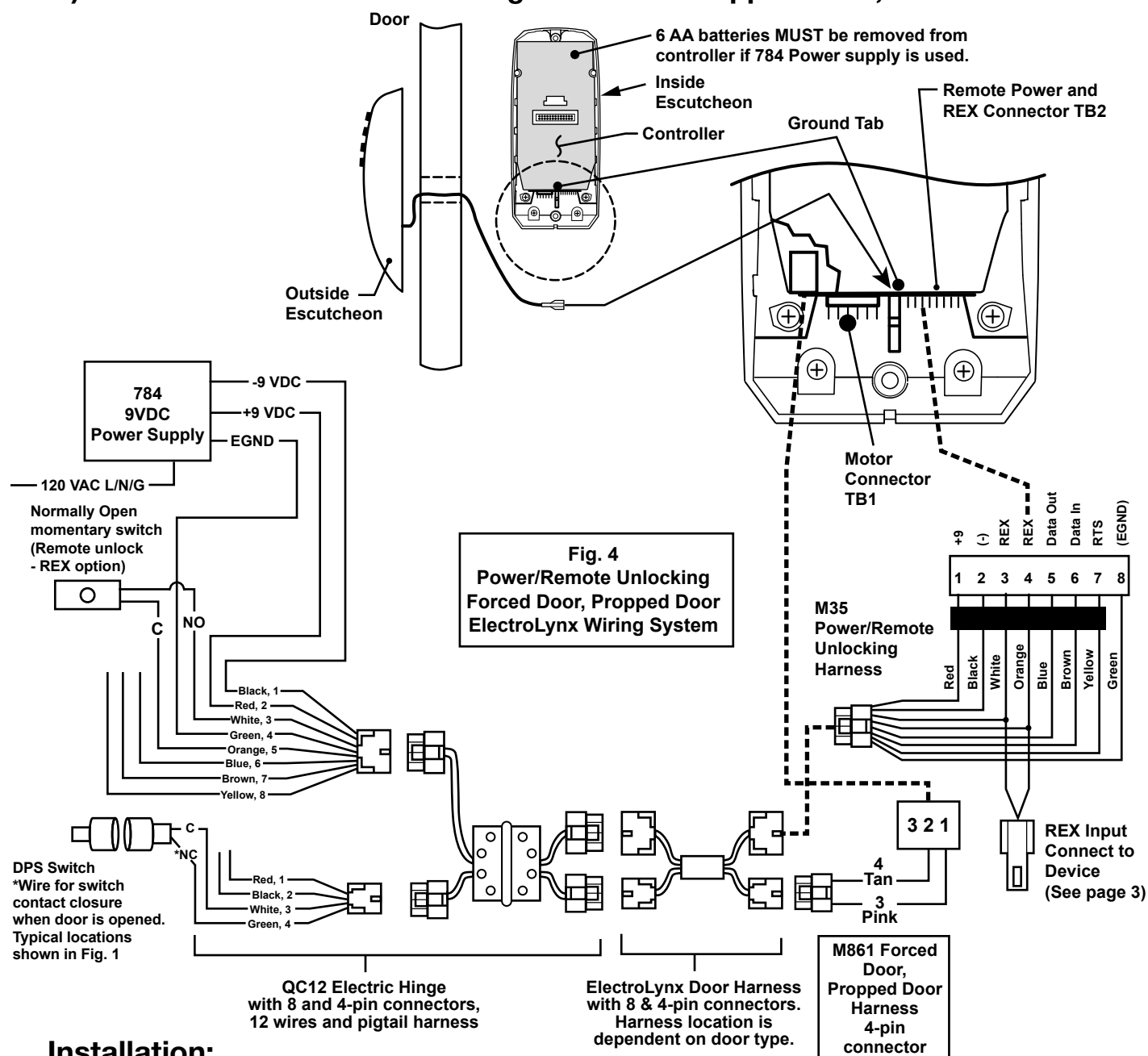
REX Input Connect to Device (See page 3)

### Installation:

1. ElectroLynx® System Wiring Instructions (refer to Fig. 1 and Fig. 4)
   a. Look for the mating part on ASSA ABLOY doors and frames. Then plug in all connectors as shown in Fig. 4 during product installation.
   b. Hard wire forced/propped, hard power and/or remote unlock (REX) as shown.
2. Non-ElectroLynx System Wiring Instructions (refer to Fig. 1 and Fig. 4)
   a. Cut the 8-pin connector off the Power/Remote Unlock harness and hard wire to non-ElectroLynx door harness. Remote power requires three conductors and remote unlock requires two conductors.
   b. Hard wire door harness to power transfer device.
   c. Hard wire forced/propped, hard power and/or remote unlock (REX), as shown.

**END OF INSTALLATION INSTRUCTIONS**

In U.S.A.:
Corbin Russwin, Inc.
225 Episcopal Road
Berlin, CT 06037-4004
www.corbinrusswin.com

**Technical Product Support**
Phone: 800-810-WIRE (9473)

In Canada:
ASSA ABLOY Door Security Solutions Canada
160 Four Valley Drive
Vaughan, Ontario, Canada L4K 4T9
www.assaabloy.ca