



Installation Instructions
For ML20800 TCAC2 Series
Mortise Lockset

/Access 800™

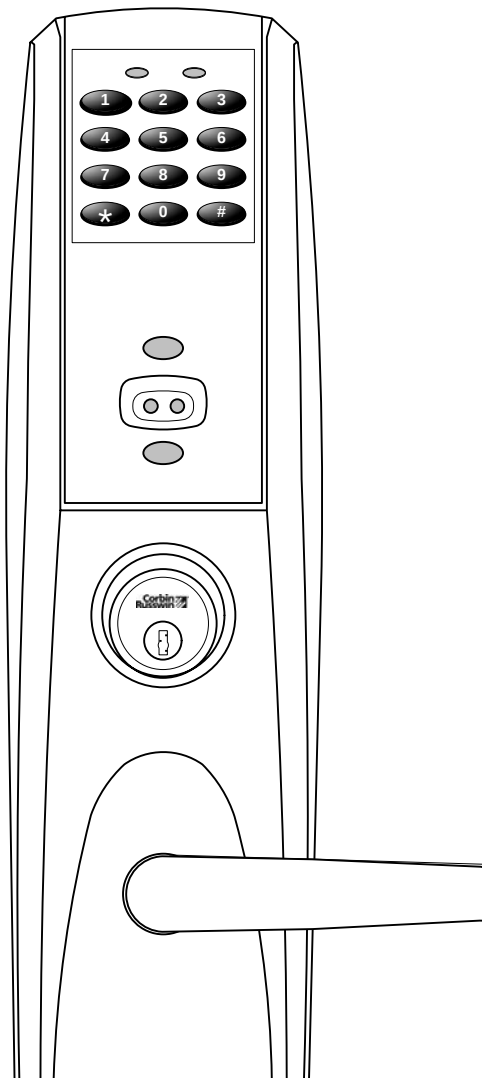
FM 224A 3/07
(617417420)

Attention Installer

Please read these instructions carefully to prevent missing important steps.

Please Note: Improper installation 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.



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

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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.

2) General Descriptions/ Specifications/ Features

General Description

The Access 800 Mortise 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) or 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.

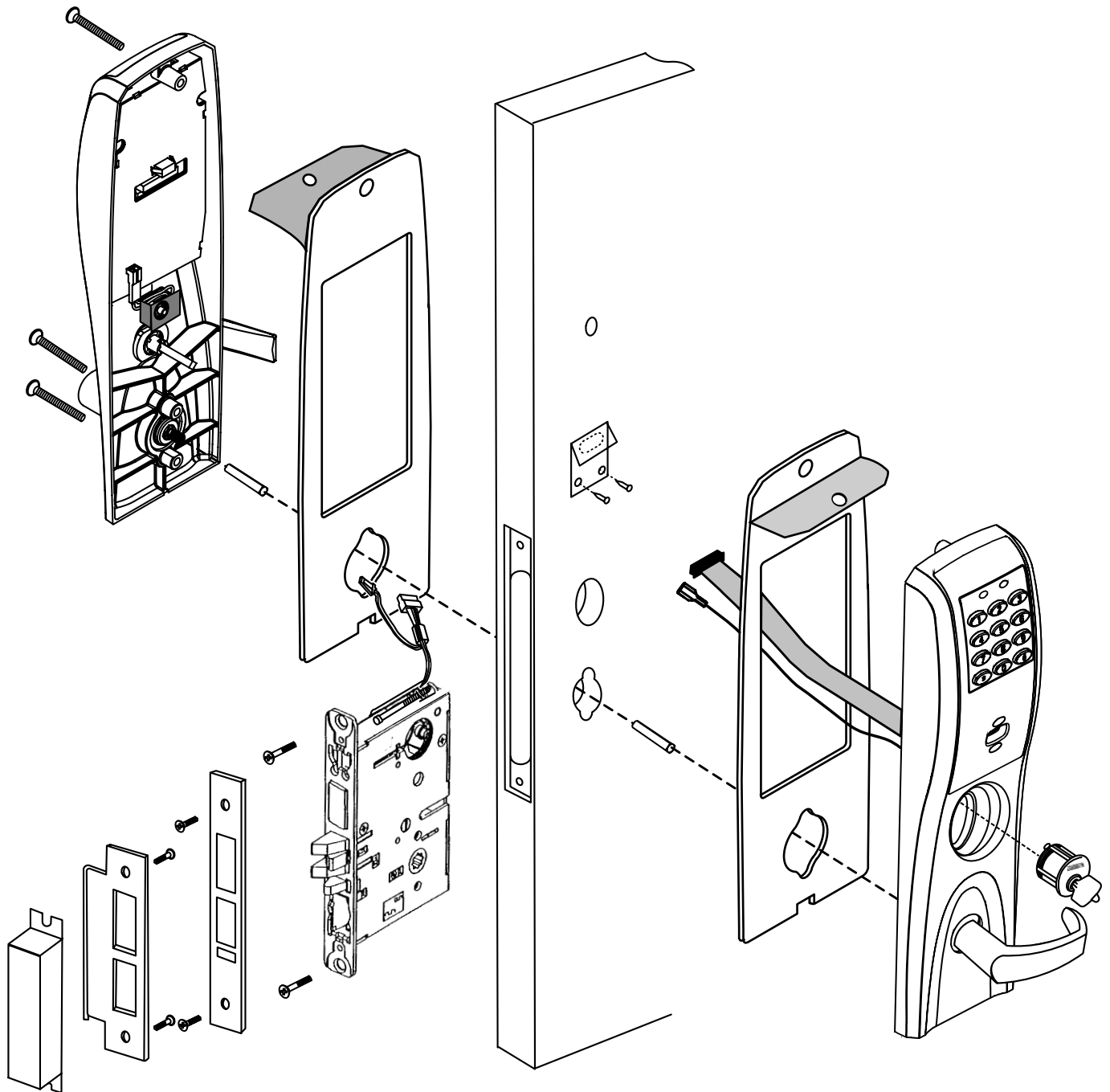
Specifications

- Latch - Stainless steel
- Deadbolt - Stainless steel
- Auxiliary Latch - Stainless steel, non handed
- Handed - Easily field reversible without disassembling the lock body
- Case - 12 gauge heavy duty wrought steel
- U.L. Listed (3 hr.)
- Locking Side controlled by any combination of keypad, proximity RF technology or Keyoverride
- Non-Locking Side retracts latch and deadbolt
- Locks furnished for 1-3/4" doors. Can be furnished for other door sizes upon request. Consult factory

Features

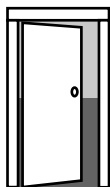
- Low battery alert—4 chirps after standard user code entry
- External remote "request to enter" connector
- Master, Emergency or Supervisory code will unlock door when low battery has expired
- Programming done at the keypad (Except M802 & M805) or with a PDA using Accessware™ with Access HH application Software.
- M801- M806 allows last 2000 transactions to be output to a PC via a PDA and Accessware™ software
- 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

3) ML20800 TCAC2 Series Product Illustration

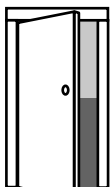


4) Installation Instructions

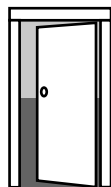
- 1 Verify Hand and Bevel of door. Illustrations shown are as viewed from the outside or secure side of opening.



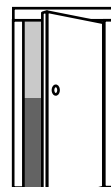
Left Hand
Hinges Left.
Open Inward.
"LH"



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

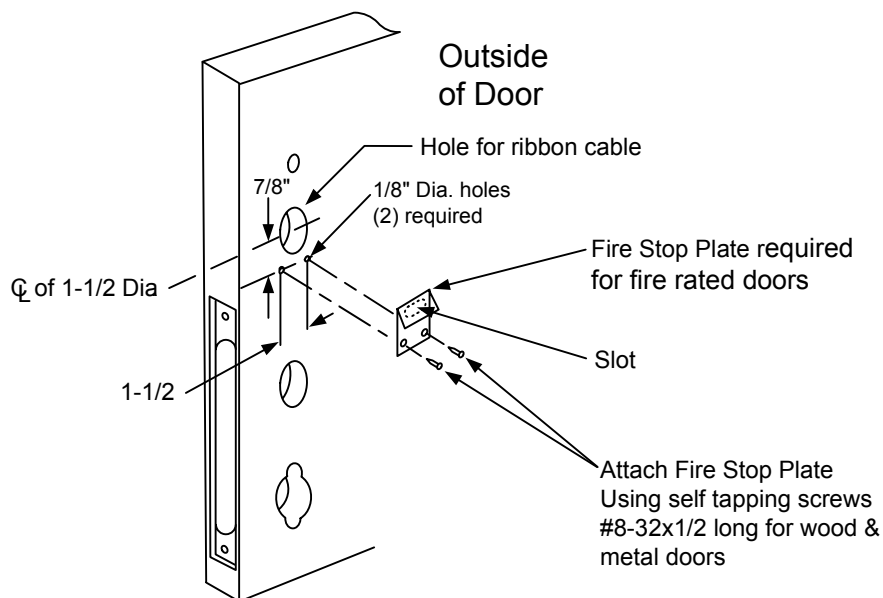


Right Hand
Hinges Right.
Open Inward.
"RH"



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

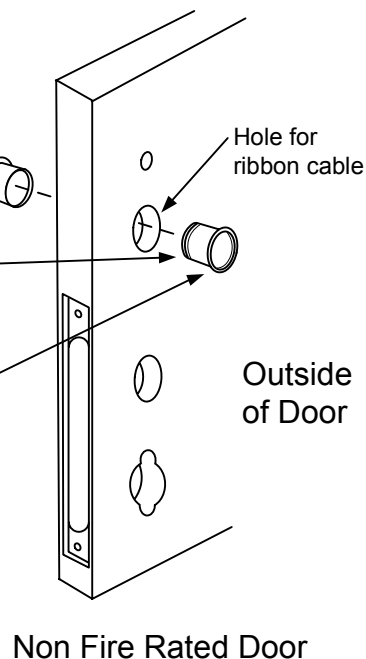
- 2 Prep door according to supplied Corbin Russwin Inc. door marker.



The Optional Conduit is available for Non Fire rated doors to provide weather protection for exterior door applications. It is included in the M99 Weatherseal Gasketing Kit when ordered with the device. If ordered separately, order part number 794F929.

Non Fire Rated Exterior Doors
install weather conduit.
(Hollow Doors Only)

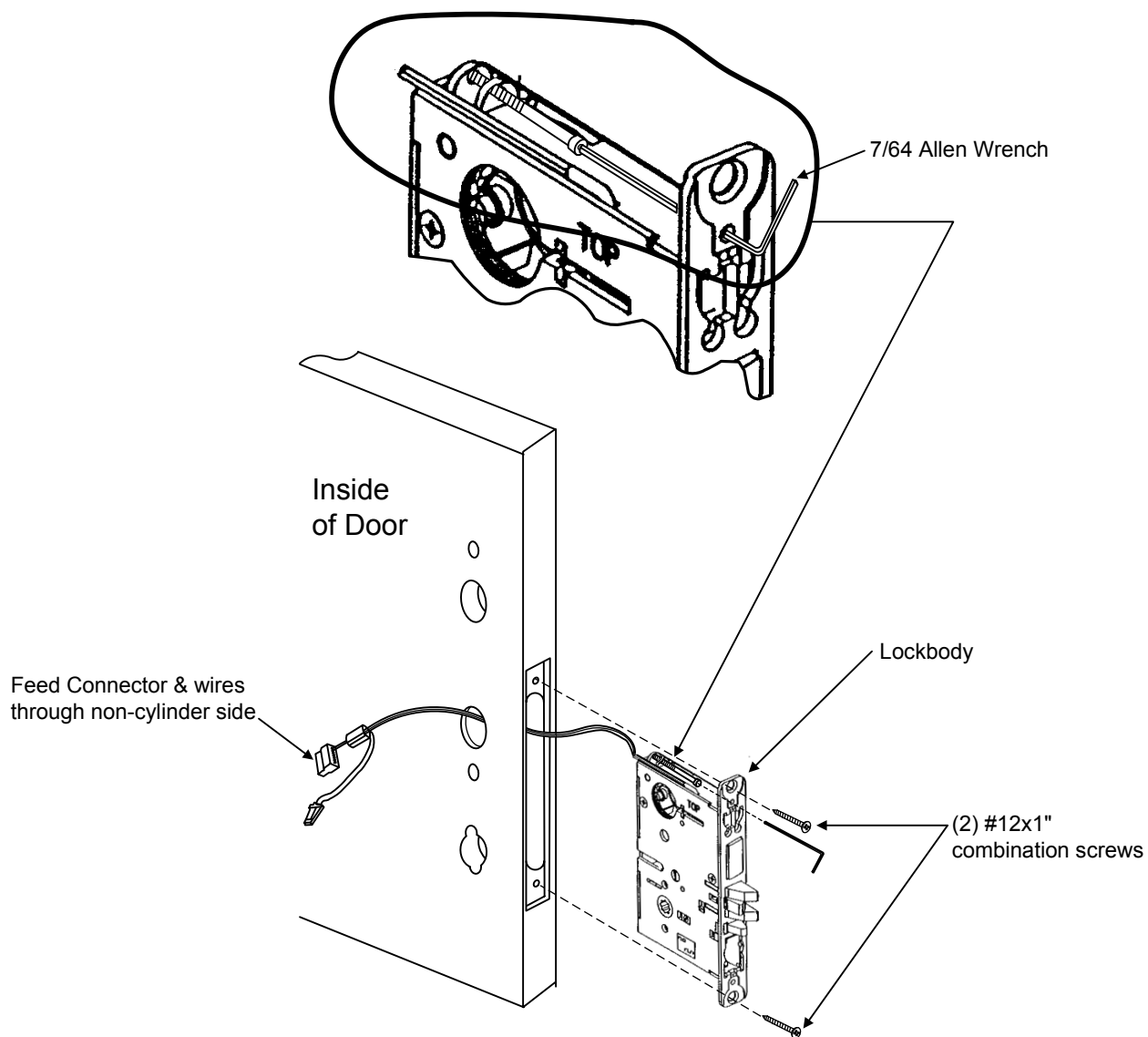
Install conduit half with recessed panel "Not For Use On Fire Door" visible from outside of door.



Installation Instructions

3 Lock Assembly Instructions

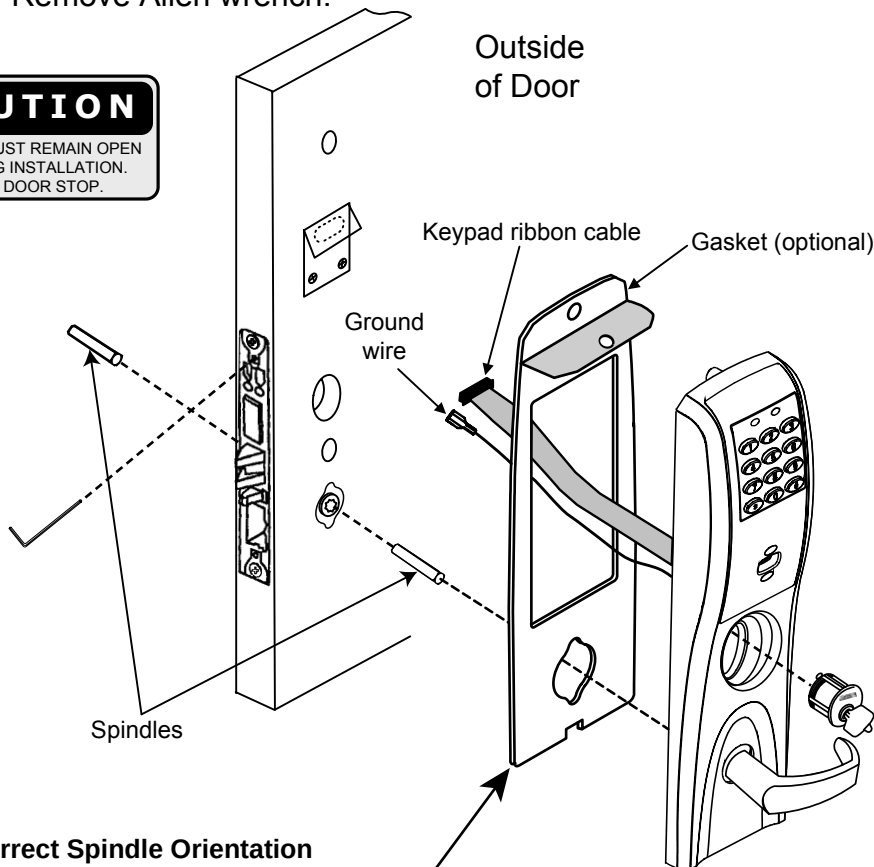
Align bevel accordingly. Engage 7/64 Allen wrench on to cap screw required for step 2 page 6. Feed connector and wires through non cylinder side of door. Insert lockbody into mortised cutout in door and hold loosely in place with (2) #12x1" lockbody screws.



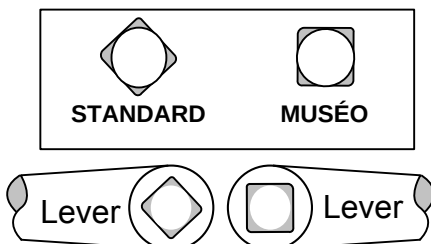
Installation Instructions

4 Installation of Outside Escutcheon

1. For exterior applications, an optional M99 Weatherseal Gasketing Kit can be ordered when a device is ordered. this kit includes gaskets and a conduit. When ordering the kit separately, order part number 794F929. The gaskets may be used as a seal between the escutcheon and the door surfaces.
- 2A. For fire rated doors feed ribbon cable connector and ground wire from outside escutcheon through the fire stop plate.
- 2B. For non-fire rated doors, feed ribbon cable connector and ground wire from outside escutcheon through weather seal gasket (if used), then conduit sleeve in door (not shown).
3. With outside lever horizontal, insert mounting posts into the door. Make certain the lever spindle is properly engaged in lock. (see diagram and Note A. below)
Screw cylinder into mortise lockbody make certain the cylinder orientation is in the correct position (see diagram below) . Using the 7/64 Allen wrench provided, hand tighten (5-10 in. lbs.) the cap screw to prevent unscrewing of the cylinder. Turn the key to make certain that the locking mechanism (latch, deadbolt, key) functions correctly. Tighten (2) #12 x 1" lockbody screws. Remove Allen wrench.



Use Correct Spindle Orientation



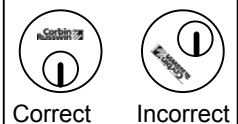
GASKET APPLICATION:

Peel off the adhesive protective paper from gasket. Feed Trim assembly motor harness through gasket opening as shown and firmly press gasket to escutcheon, aligning edge of gasket with the edge of the escutcheon.

NOTE A.

For MUSÉO Lever collections ONLY. Rotate adapter bushing as needed to insure horizontal lever position and maximum thread engaging lever - adapter bushing.

NOTE: Key and cylinder must be rotated as shown



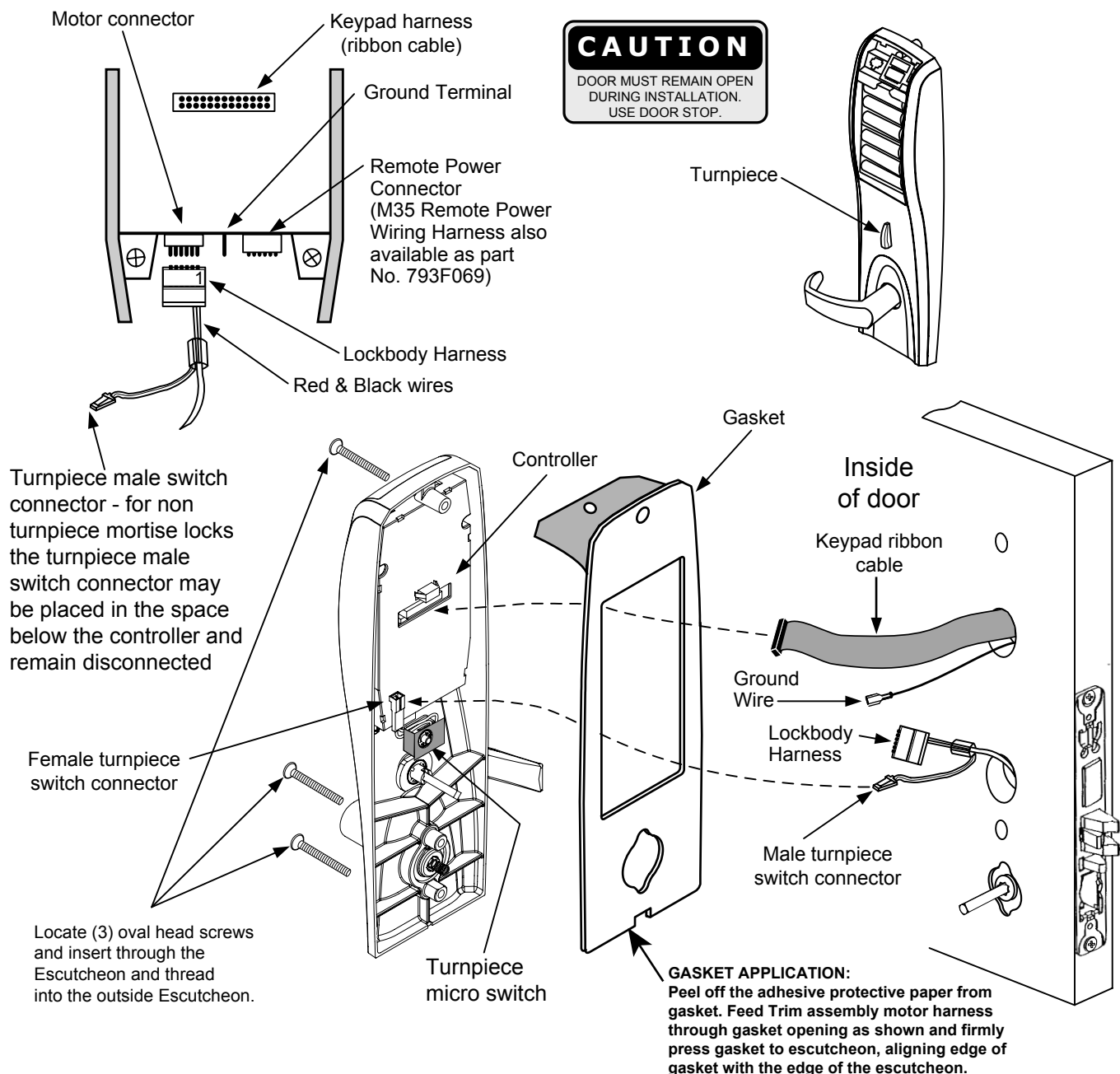
Installation Instructions

5 Installation of Inside Escutcheon

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

1. Connect Ground wire to Ground terminal, Keypad ribbon cable connector to controller, and lockbody harness to motor connector. If you have a turnpiece, connect the male turnpiece switch connector to the female turnpiece switch connector.
2. Align turnpiece to the vertical position.
3. Feed excess lockbody harness wire back into the mortise of the door between the door cavity and lockbody, making sure no excess wire enters the cylinder hole of the lockbody. (see diagram page 8) Push excess keypad ribbon cable into the ribbon cable hole.

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



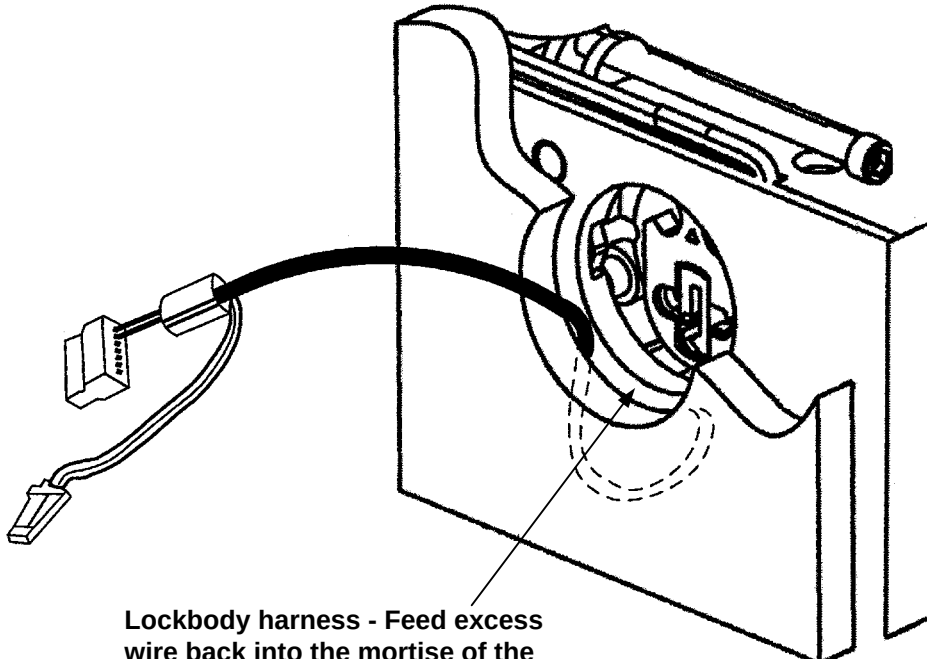
Installation Instructions

5 Installation of Inside Escutcheon (continued)

CAUTION: Do not allow lockbody harness wires to enter cylinder hole in lockbody. Wire damage and/or malfunction of the lock may occur.

1. Turn inside lever to the horizontal position and rotate the turnpiece to the vertical position. Slide onto spindle halfway. With inside escutcheon resting on spindle, be certain that all keypad ribbon cable will remain inside ribbon cable hole, and that ground wire will not get pinched once escutcheon is mounted. Escutcheon will not fit flush on door otherwise.
2. Insert 3 #10-24 screws through inside escutcheon and thread loosely into outside escutcheon. Check operation of both inside and outside levers and make sure the turnpiece and key still operate the latch and deadbolt correctly. If lock function is satisfactory, fully tighten the bottom two screws. Check operation of both levers again. If levers move freely, tighten top screw. If levers do not move freely, loosen bottom screws and realign the escutcheons until proper operation is obtained.

**Inside
of door**

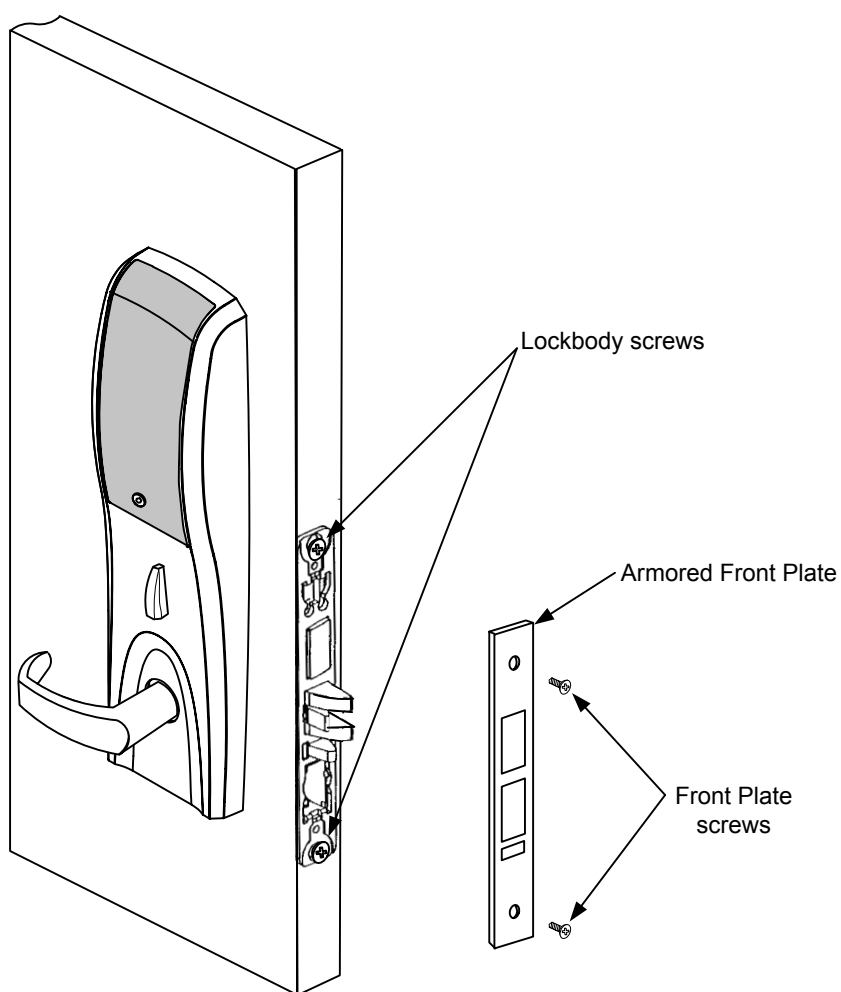


Lockbody harness - Feed excess wire back into the mortise of the door between the door cavity and lockbody. Do not feed excess wires into the cylinder hole of the lock.

Installation Instructions

6 Installation of Armored Front Plate

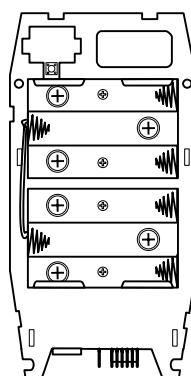
1. Install armored front plate using two #8-32 x 1/4" screws provided.



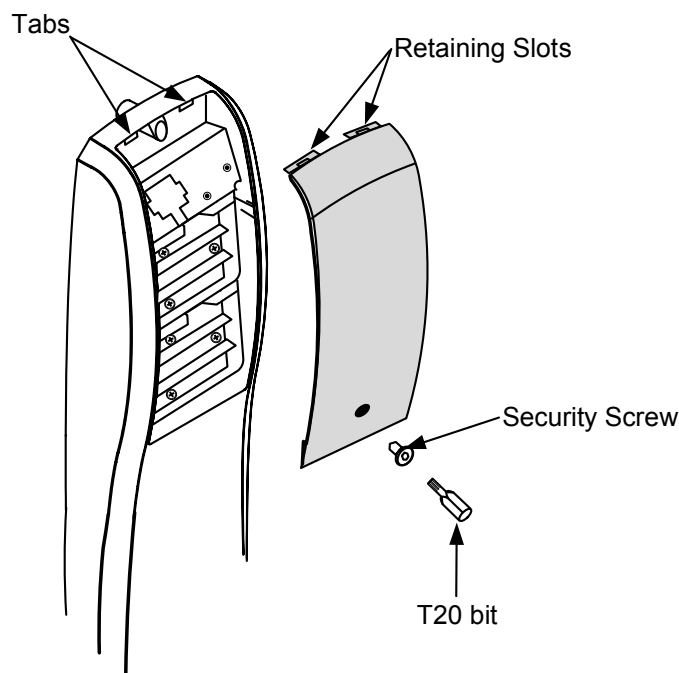
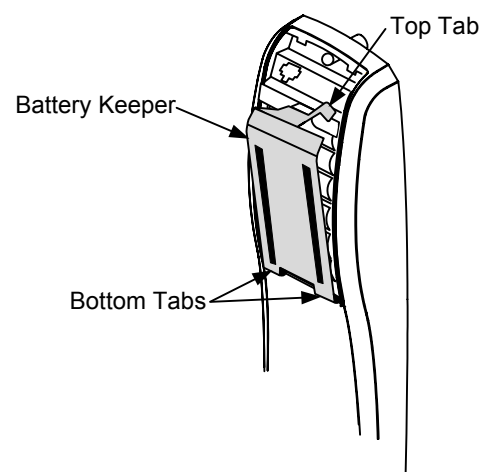
Installation Instructions

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 T20 bit.



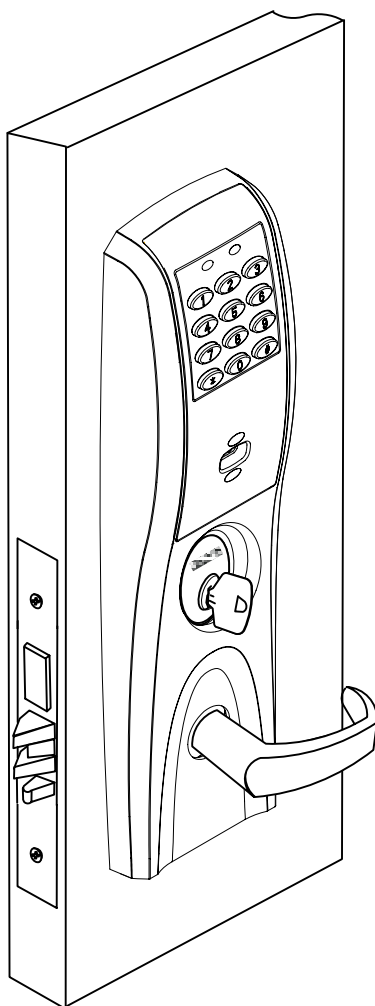
Battery Polarity



6) Operational Check

9 Lock Operational Check For devices 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 4, Step 5 if friction exists)
2. The key will retract the latch, key should rotate freely. If the deadbolt is thrown, the key will first retract the deadbolt and then the latch. Inside lever retracts latch and deadbolt, if provided.
3. Enter 1234★ to unlock outside lever handle allowing the lever to retract latch and deadbolt, if provided.
4. If lock is prox only (M802) or RF Technology with prox (M805) - refer to keypad programming instructions (FM 224) to program lock using Accessware software.



CAUTION

DOOR MUST REMAIN OPEN
DURING INSTALLATION.
USE DOOR STOP.



TEST
FOR PROPER
OPERATION
BEFORE
CLOSING
DOOR

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7) ML20800 TCAC2 Hardwiring 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.

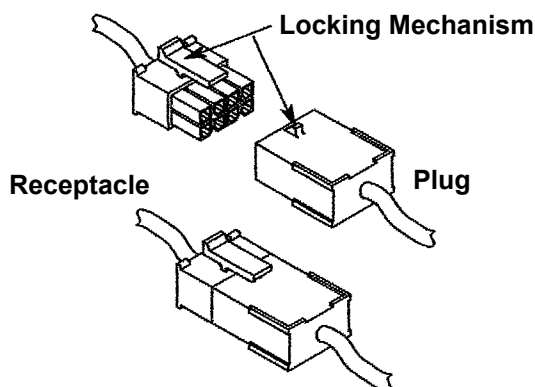
7.3) ElectroLynx™ Connector System Notes:

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.

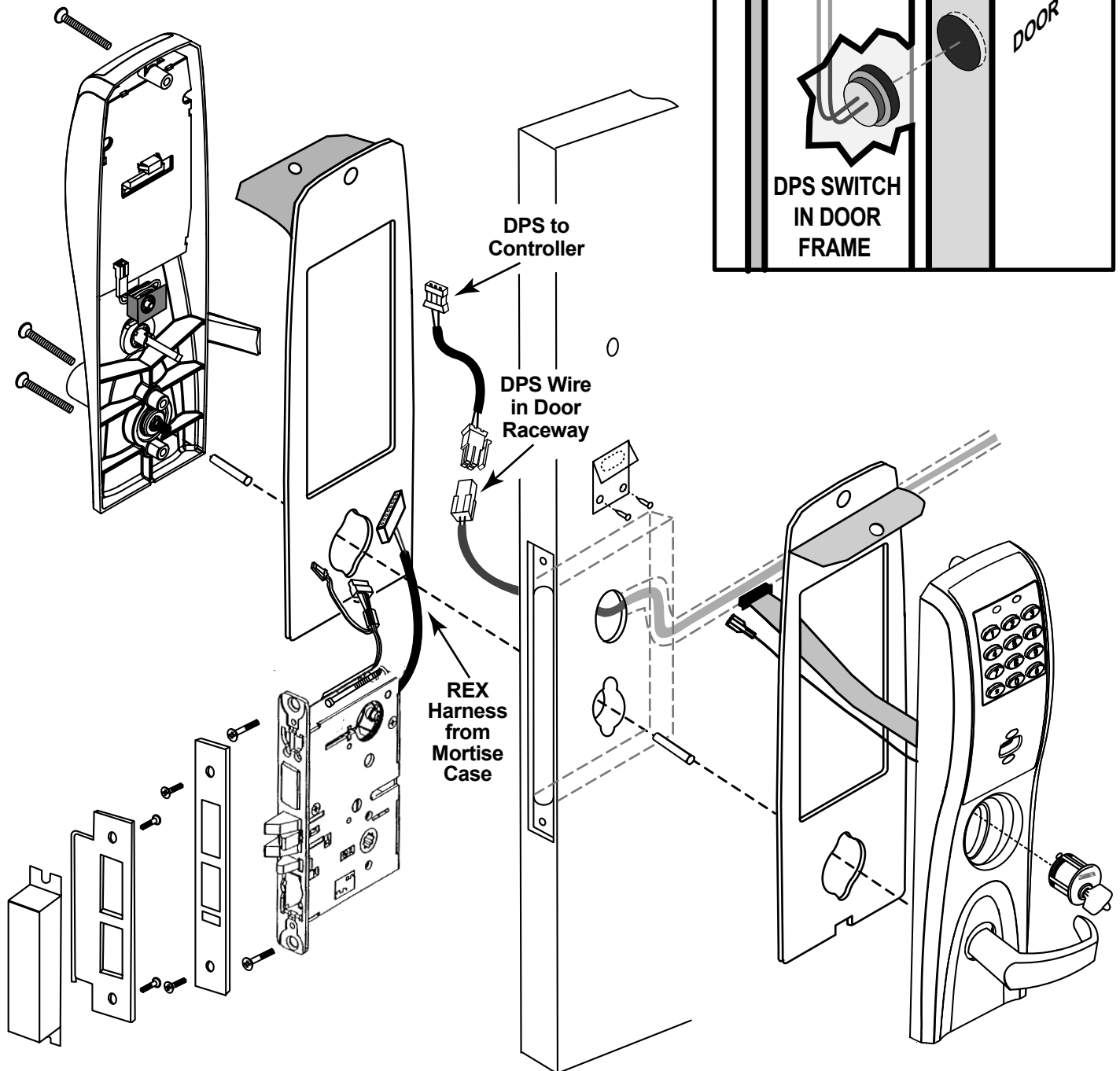
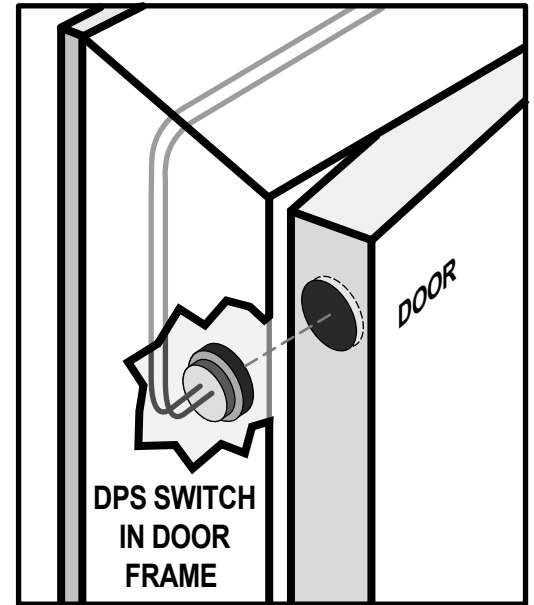


As part of their promise to provide innovative, fast and effective, and higher security solutions to their customers, ASSA ABLOY Group companies offer ElectroLynx™, a universal quick-connect system that simplifies the electrification of the door opening.

ElectroLynx™ is a registered trademark of ASSA ABLOY North America, Inc.

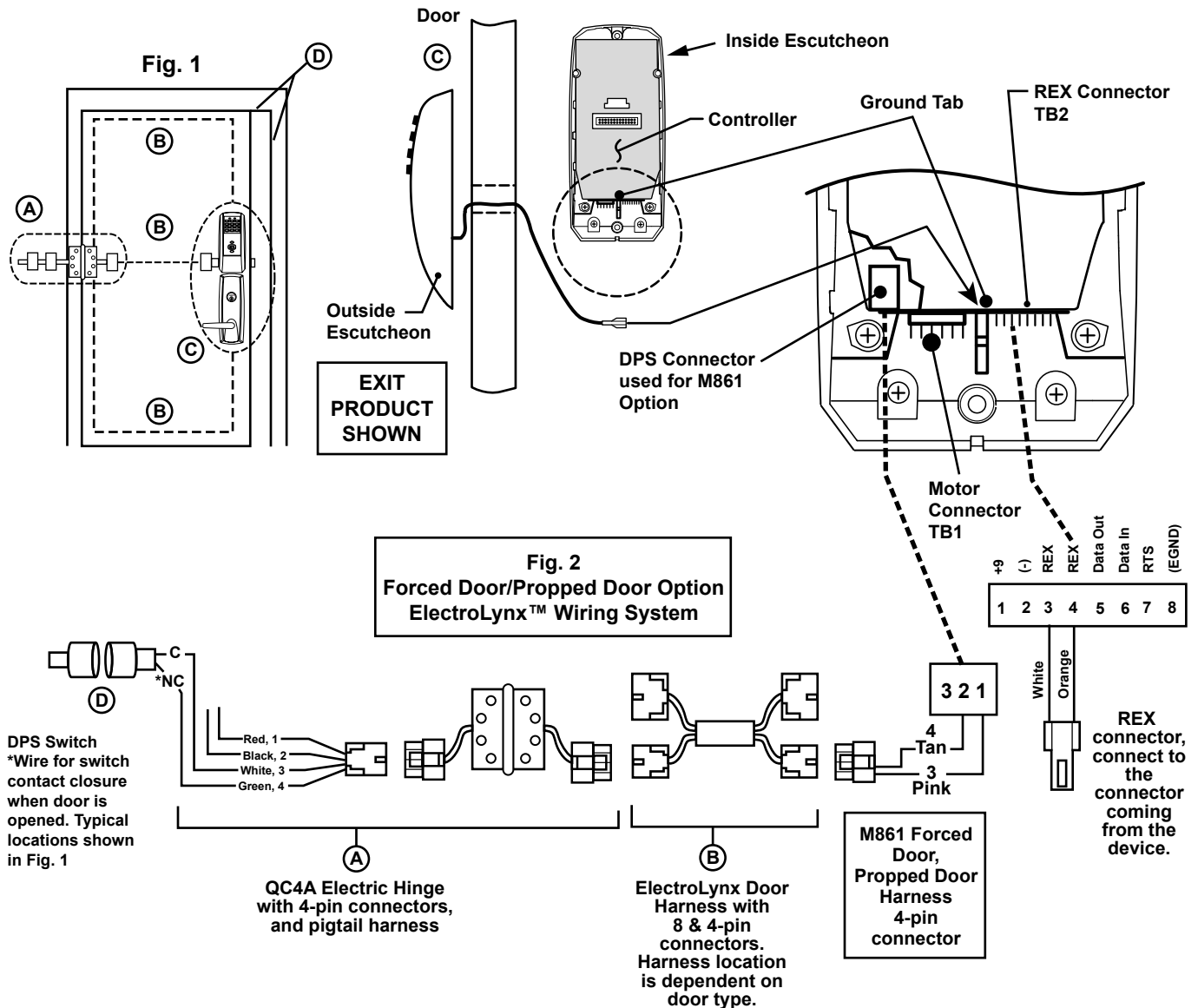
7) ML20800 TCAC2 Hard Wiring Instructions

7.4) Illustration with M861 Harness



7) ML20800 TCAC2 Hard Wiring Instructions

7.5) M861 Quick Code, Forced Door Propped Door Option.

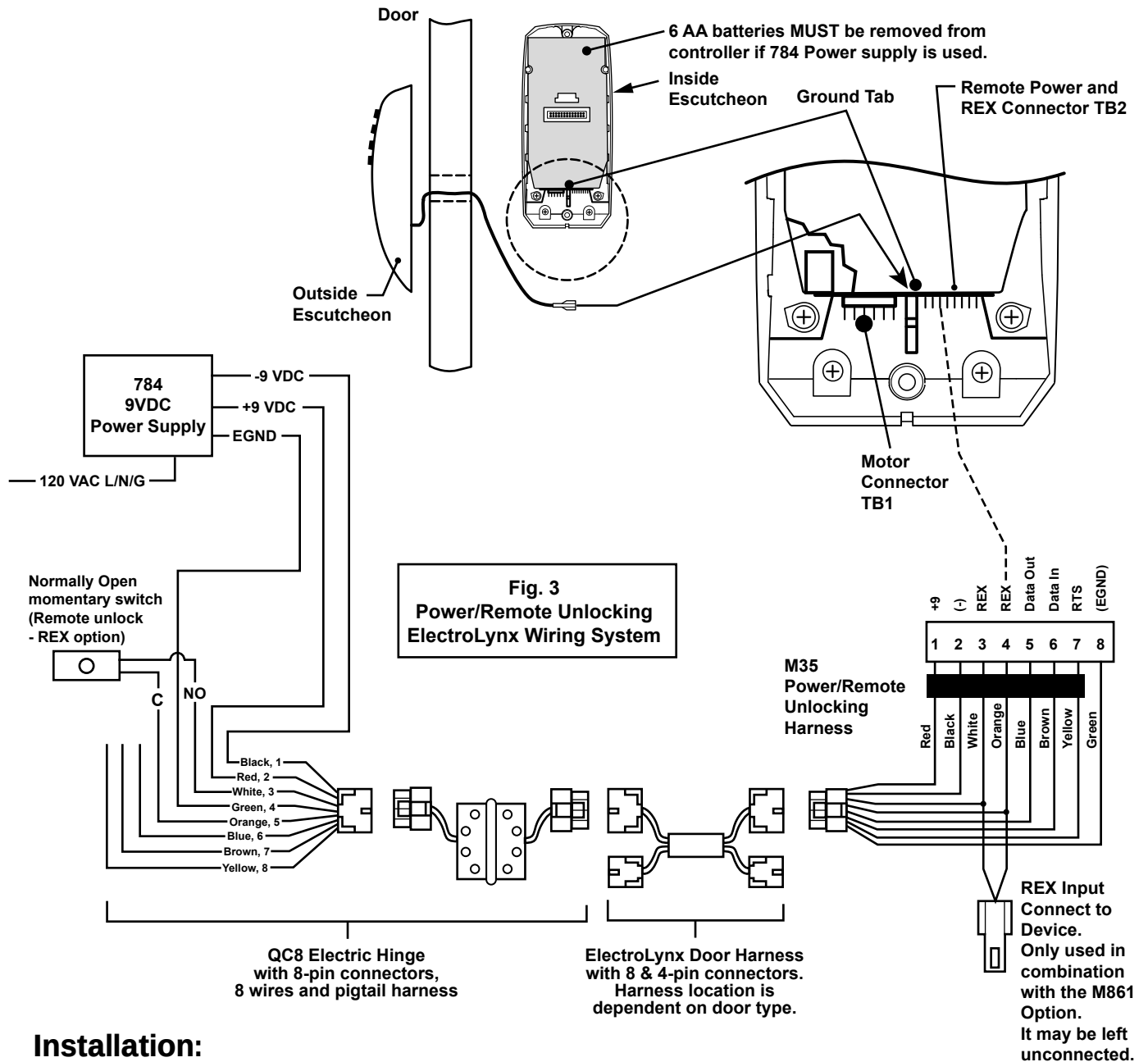


Installation:

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) ML20800 TCAC2 Hard Wiring Instructions

7.6) M35 Power/Remote Unlocking Harness.



Installation:

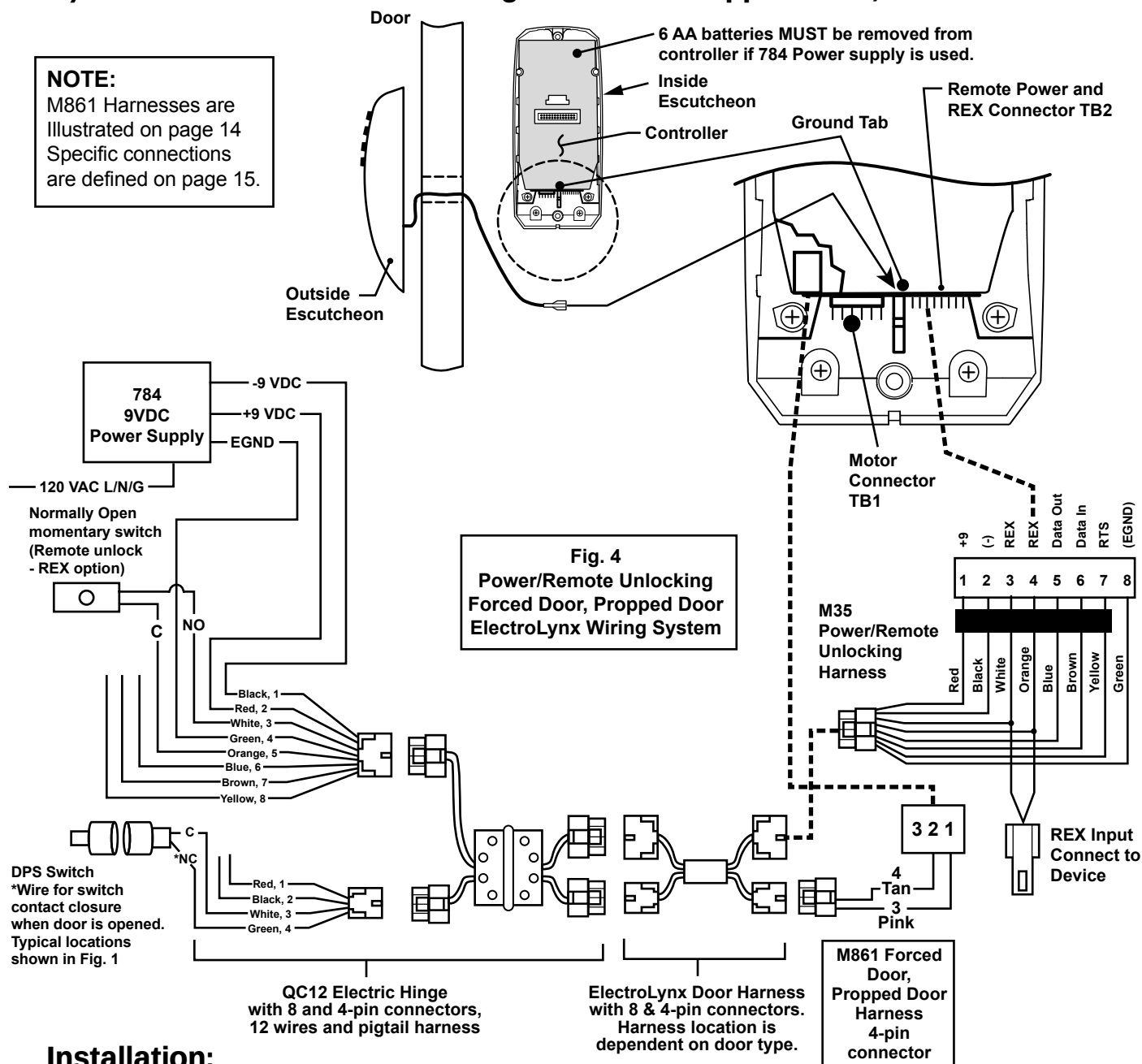
1. ElectroLynx™ System Wiring Instructions (refer to Fig. 1 and Fig. 3)
 - a. Look for the mating part on ASSA ABLOY doors and frames. Then plug in all connectors as shown in Fig. 3 during product installation.
 - b. Hard wire 784 power supply as shown.
2. Non-ElectroLynx™ System Wiring Instructions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

7) ML20800 TCAC2 Hard Wiring Instructions

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

NOTE:

M861 Harnesses are illustrated on page 14
Specific connections are defined on page 15.



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