

ED4000 & ED5000 Series

Motorized Electric Latch Retraction (MELR) Retrofit Upgrade

Exit Devices



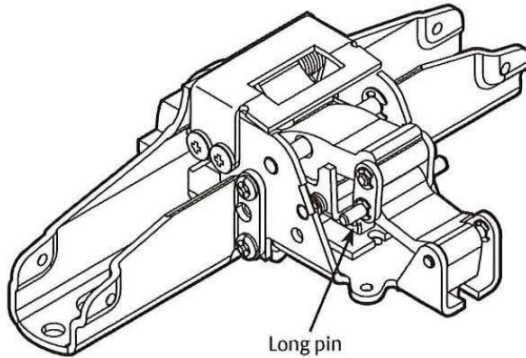
WARNING

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.

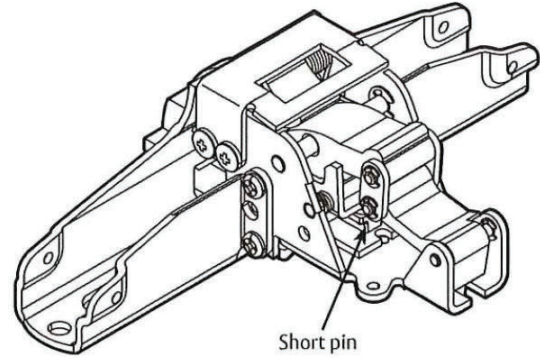
TOC	Table of Contents
1	Latch Retraction Pin3
2	782 Power Controller Replacement.....3
3	MELR Replacement Kits.....4
4	Retrofitting to the MELR4

1

Latch Retraction Pin



Latch Retraction Pin
[Beginning April 2015 (15/15)]



Latch Retraction Pin
[Prior to April 2015 (15/15)]

Devices with short pins CANNOT be upgraded. A new latch assembly must be ordered to upgrade to MELR.

NOTE: A label with a date code is located on the front face of the latch assembly.

Important:

- Latch assemblies prior to April 2015 (with short pins) must be replaced.
- Latch assemblies manufactured from April 2015 to present (with long pins and date code: 17/15) can be retrofitted.

2

782 Power Controller Replacement

The 782 Power Controller is not compatible with the MELR option on the Corbin ED5000 & ED4000 Series Exit Device. In order to duplicate the functionality of the controller, a power supply with a timer is required for the application. Please contact your local ASSA ABLOY Door Security Solutions sales team member for more information.

3

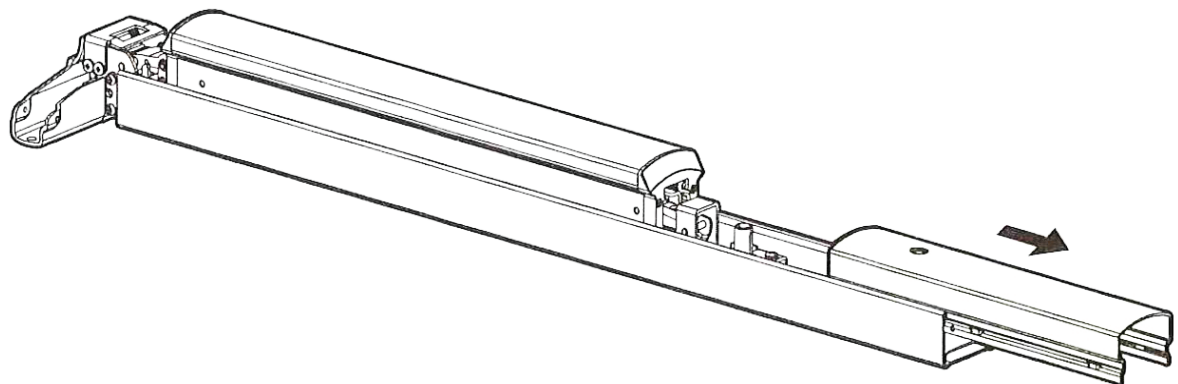
MELR Replacement Kits

Model #	Product Description
CRMELR-36	ED5000 36" MELR Device Assembly Kit
CRMELR-36-M93	ED5000 36" MELR Device Assembly Kit with M93 Trim Monitoring Option
CRMELR-36-M107	ED5000 36" MELR Device Assembly Kit with M107 Windstorm Option
CRMELR-36-M93-M107	ED5000 36" MELR Device Assembly Kit with M93 Trim Monitoring and M107 Windstorm Option
CRMELR-38	ED4000 36" MELR Device Assembly Kit
CRMELR-38-M93	ED4000 36" MELR Device Assembly Kit with M93 Trim Monitoring Option
CRMELR-48	ED4000 and ED5000 48" MELR Device Assembly Kit
CRMELR-48-M93	ED4000 and ED5000 48" MELR Device Assembly Kit with M93 Trim Monitoring Option
CRMELR-48-M107	ED5000 48" MELR Device Assembly Kit with M107 Windstorm Option
CRMELR-48-M93-M107	ED5000 48" MELR Device Assembly Kit with M93 Trim Monitoring and M107 Windstorm Option

4

Retrofitting to the MELR

- a Remove the existing carrier assembly from the door.
- b Slide the end cover off of the carrier assembly. Save the mounting hardware.

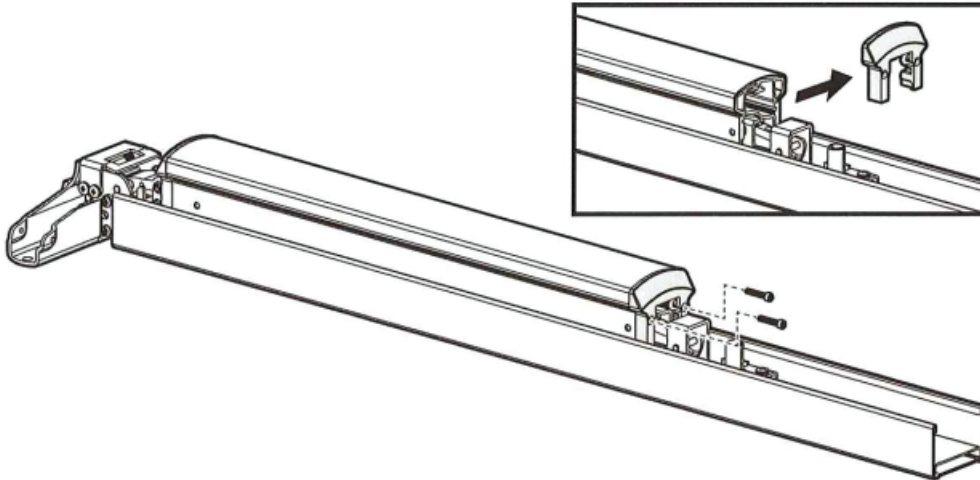


4

Retrofitting to the MELR, continued

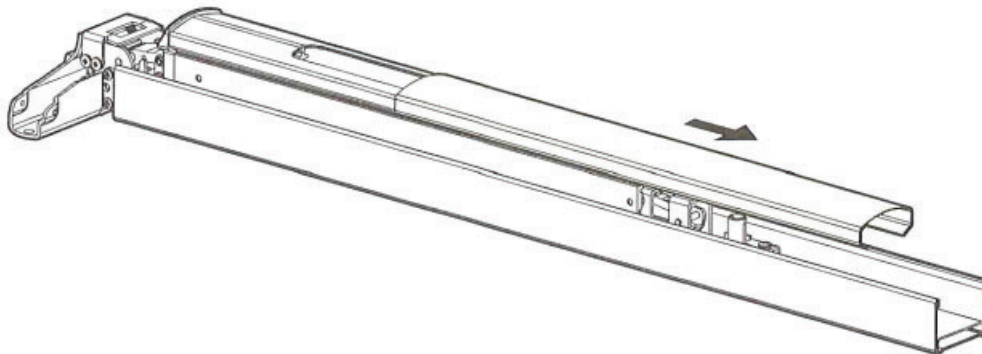
c

Remove the touch bar end plate with a T20 Torx screwdriver.



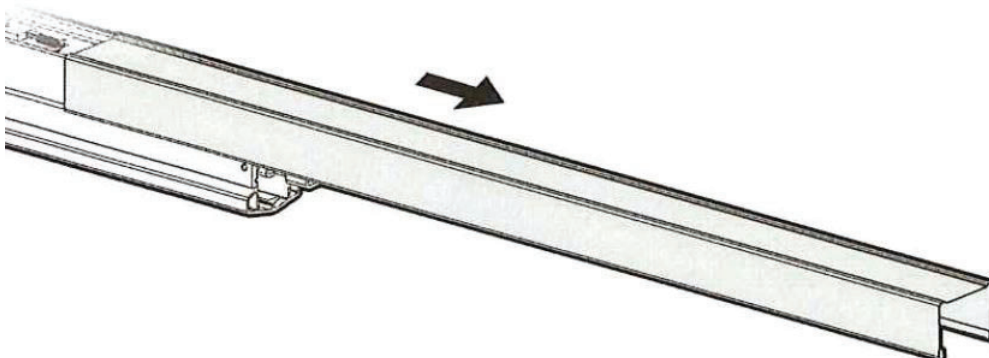
d

Slide the cover off of the carrier assembly.



e

Turn the carrier assembly over and slide the bottom of the carrier cover off of the carrier assembly.



4

Retrofitting to the MELR, continued

f

Remove the trim slide, wire protector, and latch assembly, as required for the carrier assembly.

For M94 (solenoid) carrier assemblies:

- Remove the four (4) screws holding the trim slide, latch assembly, and connecting slide in place. See Figure 1 on the next page.

For Mechanical carrier assemblies:

- Remove the three (3) screws holding the trim slide and latch assembly in place. See Figure 2.

For Mechanical or M94 with M91 carrier assemblies:

- Remove the screws holding the trim slide, wire protector, and latch assembly in place. See Figure 3

Notes:

- Mechanical with M91 carrier assemblies require the removal of three screws. See Figure 2.
- Mechanical carrier assemblies do not have a threaded rod and latch assembly.
- Cut the connector off of the end of the switch wire and fit the wire through the grommet in the carrier so the latch assembly can be removed. See Figure 4.

For Mechanical or M94 with M92 carrier assemblies:

- Remove the screws holding the trim slide, latch assembly, and connecting slide in place. See Figure 1.

Notes:

- Mechanical with M92 carrier assemblies require the removal of three screws. See Figure 2.
- Mechanical carrier assemblies do not have a threaded rod and latch assembly.

For Mechanical or M94 with M93 carrier assemblies:

- Remove the screws holding the trim slide and latch assembly in place. See Figure 1.

Notes:

- The M93 Switch doesn't need to be removed. A new switch is included with the device retrofitting kit.
- Mechanical with M93 devices require the removal of the three screws. See Figure 2.
- Mechanical carrier assemblies do not have a threaded rod and latch assembly

For Mechanical or M94 with M91 and M92 carrier assemblies:

- Remove the screws holding the trim slide, wire protector, latch assembly, and connecting slide in place. See Figure 3.
- Cut the connector off of the end of the switch wire and fit the wire through the grommet in the carrier so the latch assembly can be removed. See Figure 4.

Notes:

- Mechanical with M91 and M92 devices require the removal of three screws. See Figure 2.
- Mechanical carrier assemblies do not have a threaded rod and latch assembly.

4

Retrofitting to the MELR, continued

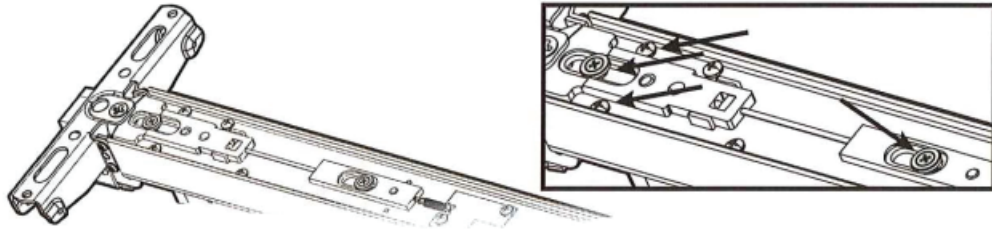


Figure 1 Four-screw removal (M94 base device)

Note: If a spring is attached to the latch assembly, carefully disconnect the spring before removing the latch assembly.

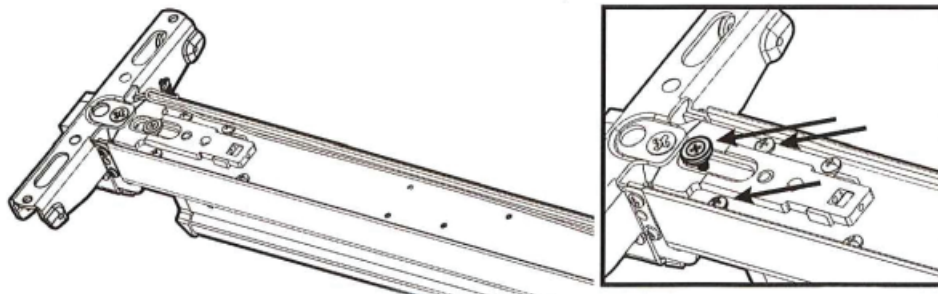


Figure 2 Three-screw removal (Mechanical base device)

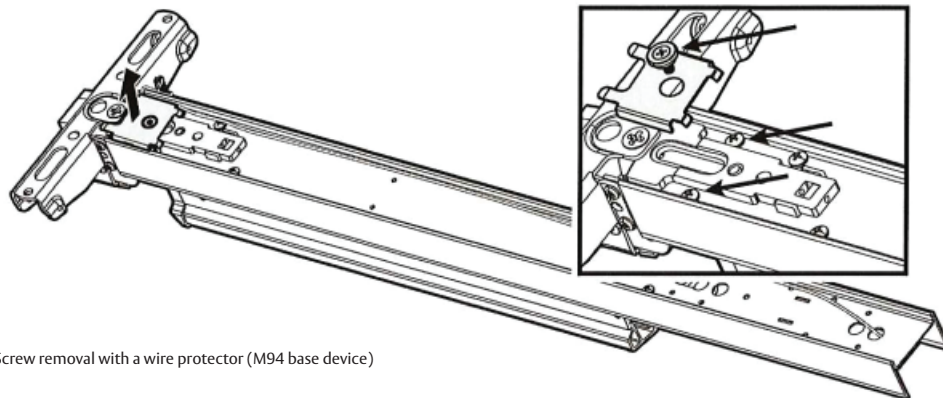


Figure 3 Screw removal with a wire protector (M94 base device)

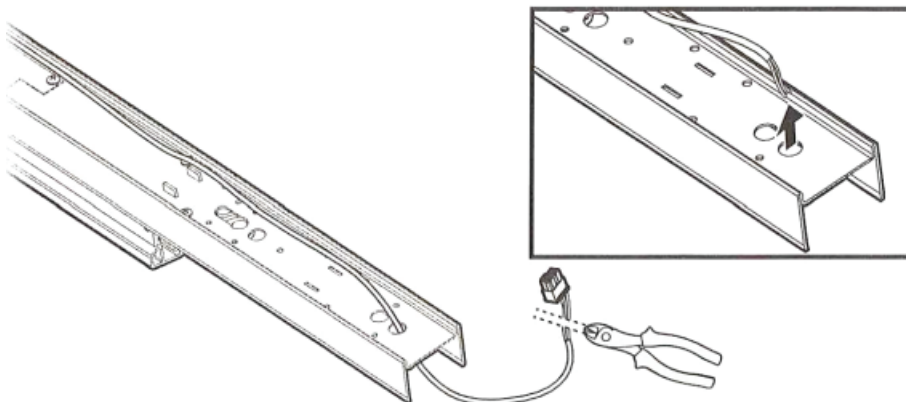


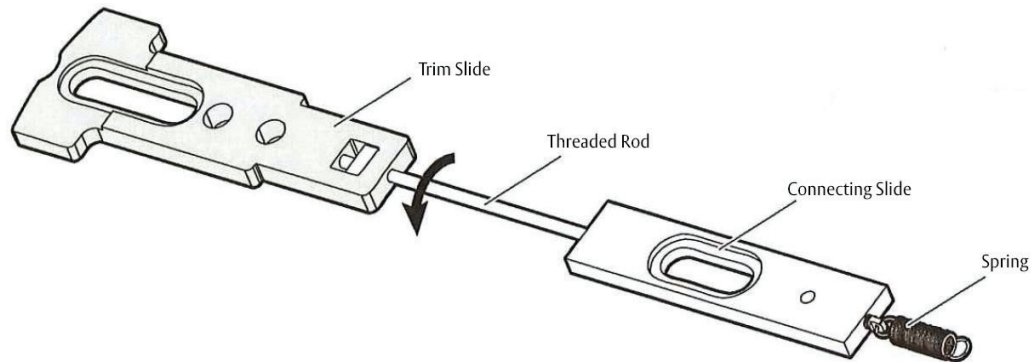
Figure 4 Cutting the connector

4

Retrofitting to the MELR, continued

g

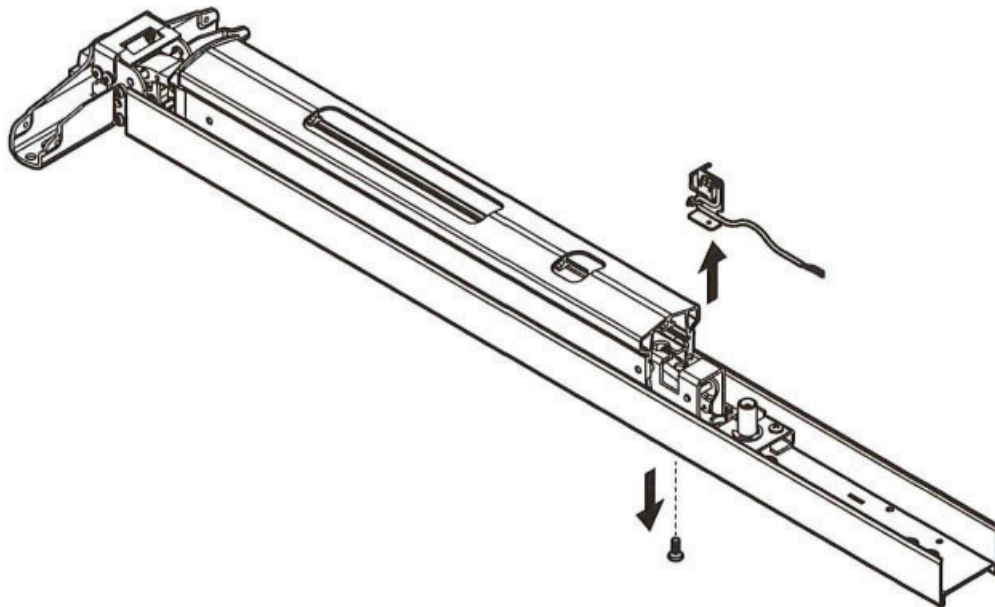
Unscrew the threaded rod from the trim slide (M94 only).



- Keep the trim slide.
- Discard the threaded rod, the connecting slide, and the spring (as applicable).

h

Remove the switch and bracket, if applicable.



For Mechanical or M94 with M92 carrier assemblies:

- Remove the screw on the bottom of the existing carrier assembly to release the switch and bracket.

For Mechanical or M94 with M91 & M92 carrier assemblies:

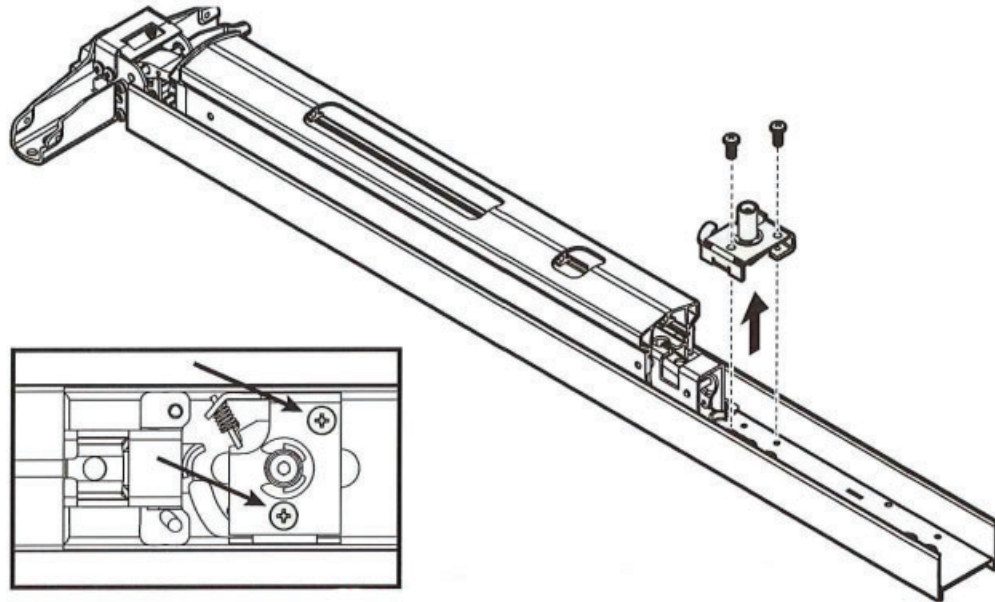
- Remove the screw on the bottom of the existing carrier assembly to release the switch and bracket.

4

Retrofitting to the MELR, continued

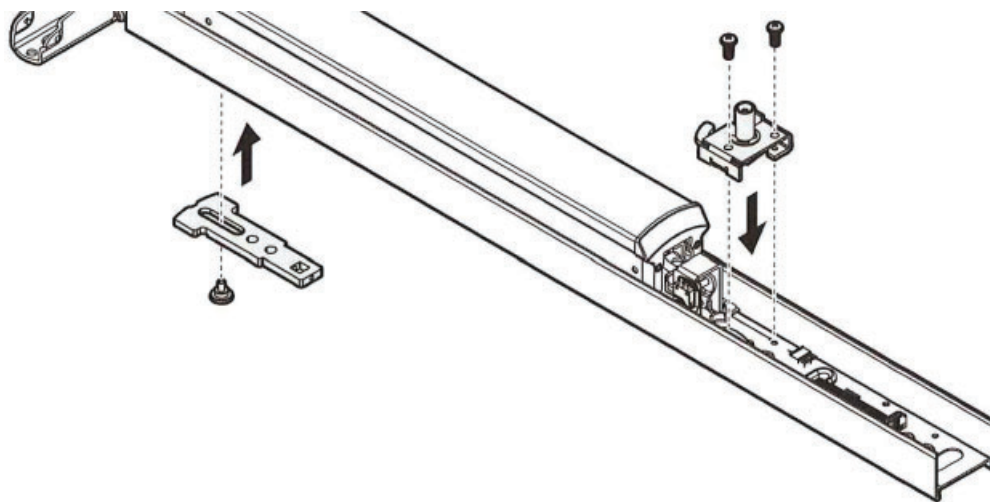
i

If the device has a mechanical dogging assembly, remove the assembly by unscrewing the two screws holding it to the device.



j

Move the trim slide, touchbar cover, touchbar end plate, and the mechanical dogging assembly to the new MELR device.

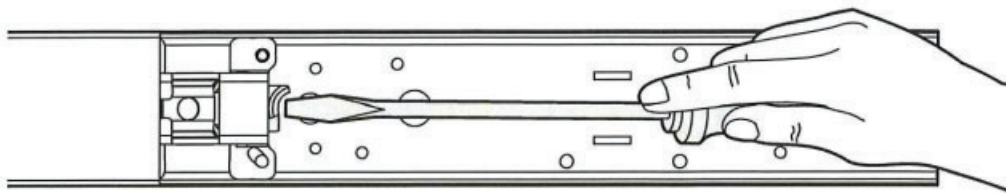


4

Retrofitting to the MELR, continued

k

Test the mechanical dogging assembly.



If the assembly does not have the proper latch retraction.

- Remove the dogging assembly:
- Adjust the retraction level by gently prying the latch hook with a screwdriver.
- Reinstall the dogging assembly.
- Test and adjust the latch retraction, as needed.

l

Connect the motor and jumper harness, if applicable.

For Mechanical or M94 with M91 devices:

- Route the switch wire around the wire protector and through the grommet in the carrier. See Figure 5.
- Cut the switch wire 2" past the grommet.
- Cut the jumper harness (p/n 727F509 included), leaving enough length to splice the jumper harness to the switch wires and also plug into the motor harness. See Figure 6 on the next page.

Note:

- Verify the connector being cut prior to cutting it off.
- Splice the switch wires to the matching color wires on the jumper harness and secure with the wire nuts provided. See Figure 6:
- Plug the jumper harness into the motor harness. See Figure 7 on the next page.

For Mechanical or M94 with M92 devices:

- Install the M92 switch. Refer to Section 4H "Remove the Switch and Bracket, if applicable" on page 7.
- Connect the switch wire to the motor harness. If required for length, use the provided jumper harness (p/n 727F509). See Figure 7.

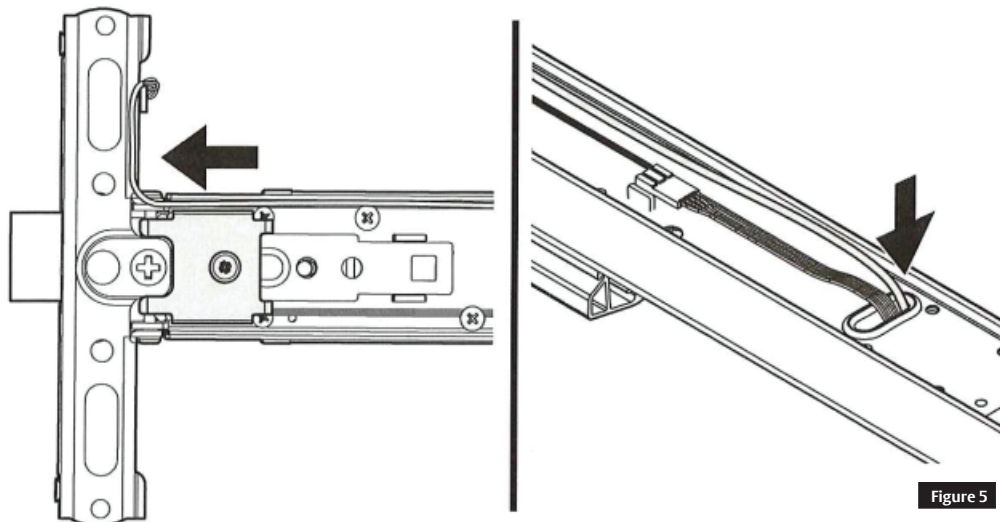


Figure 5 Routing the switch wire

4

Retrofitting to the MELR, continued

I

Connect the motor and jumper harness, if applicable, continued.

For Mechanical or M94 with M91 & M92 devices:

- Route the switch wire around the wire protector & through the grommet in the carrier. See Figure 5 on the previous page.
- Cut the switch wire 2" past the grommet.
- Cut the jumper harness (p/n 727509), leaving enough length to splice the jumper harness to the switch wires and also plug into the motor harness. See Figure 6.

Note:

- Verify the connector being cut prior to cutting it off.
- Splice the switch wires to the matching color wires on the jumper harness and secure with the wire nuts provided. See Figure 6:
- Plug the jumper harness into the motor harness. See Figure 7.

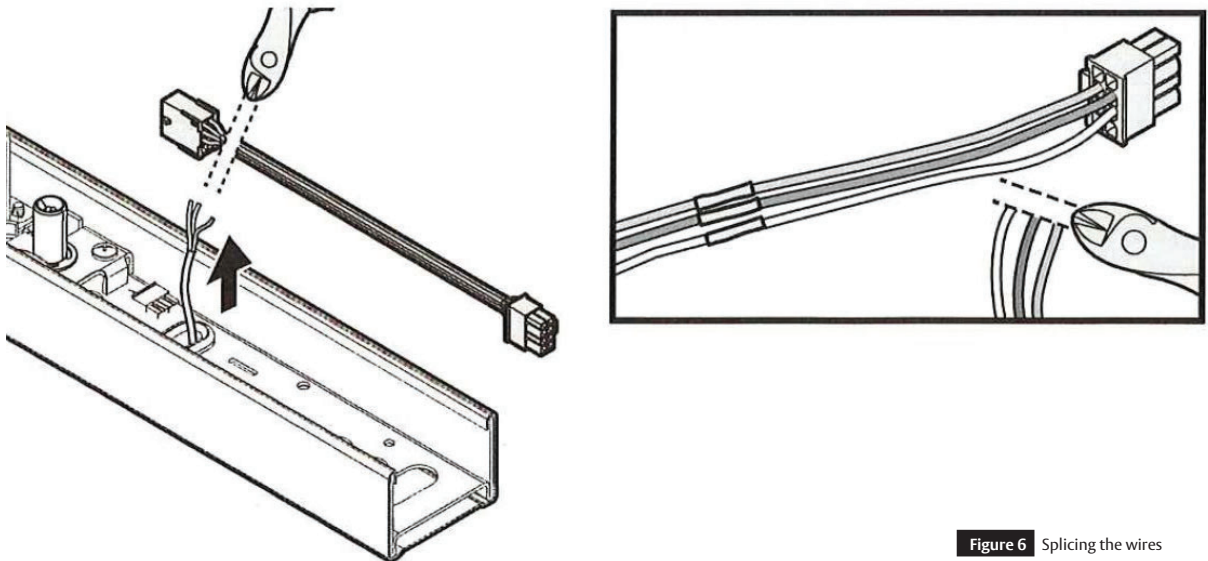


Figure 6 Splicing the wires

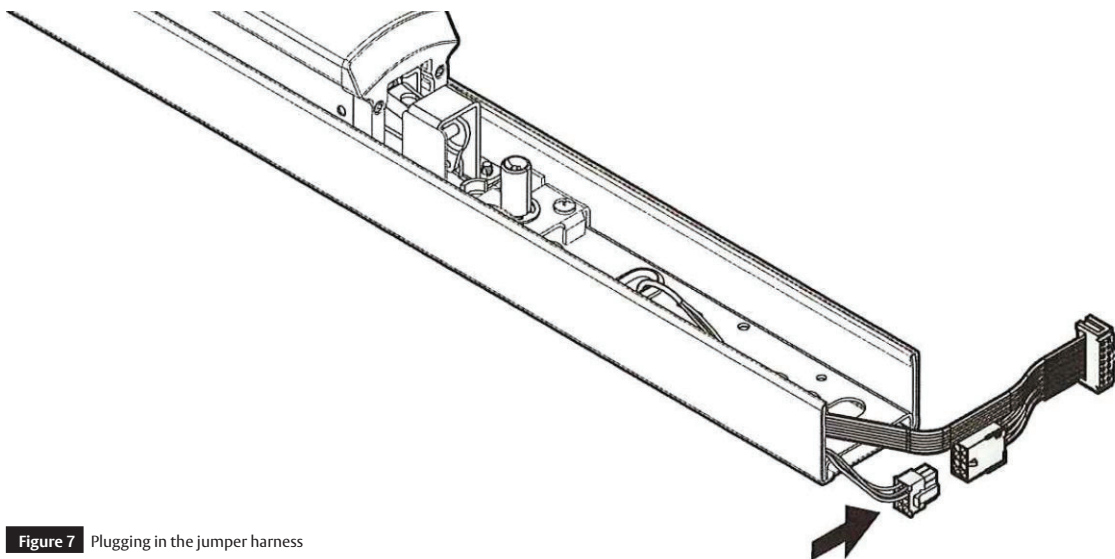


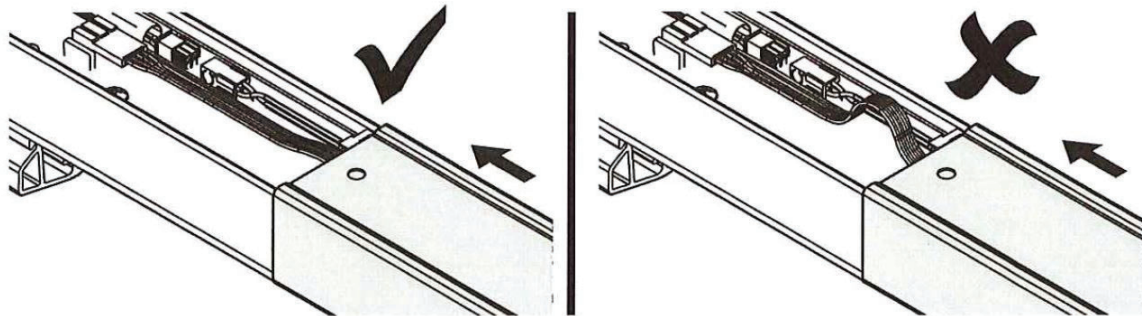
Figure 7 Plugging in the jumper harness

4

Retrofitting to the MELR, continued

m

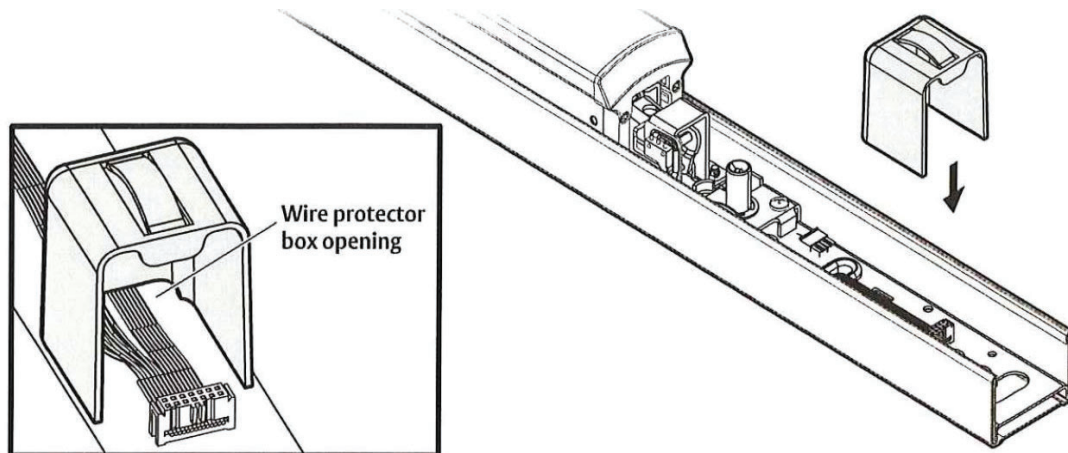
Slide the carrier cover onto the device.



- The wires must lay flat when moving the carrier cover.

n

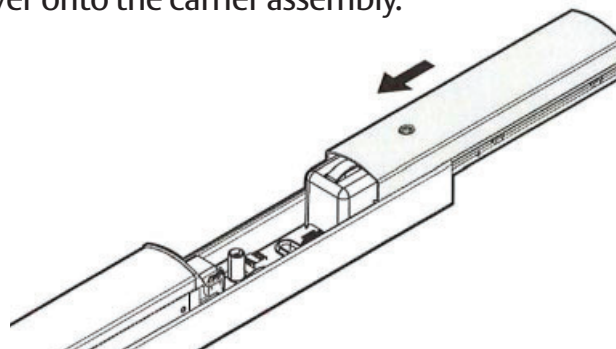
Install the wire protector.



- Install the wire protector box into the device to prevent wire damage from the movement of the dogging assembly and end cover. All wires must move through the box opening.

o

Slide the end cover onto the carrier assembly.



- Hold the wire protector box in place when installing the end cover onto the cover assembly.

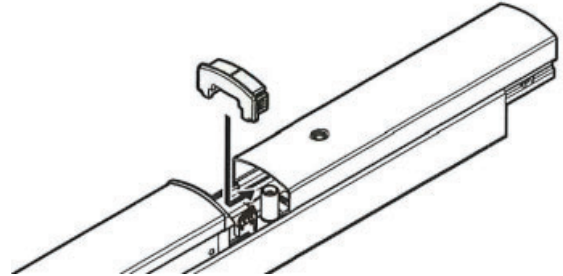
4

Retrofitting to the MELR, continued

p

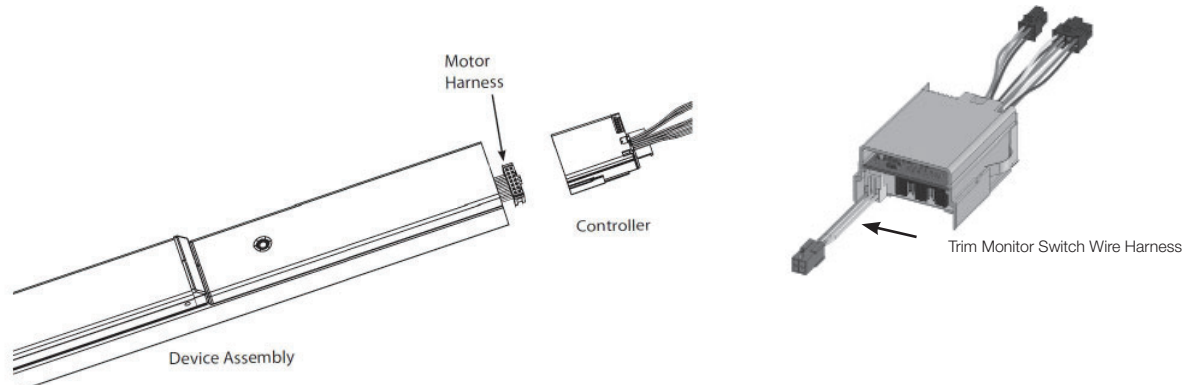
Install the end cover.

- Push the cover onto the carrier assembly, leaving enough room to install the end cap.
- Once the end cap is installed, slide the cover until the end of the cover is flush with the end of the carrier assembly.



q

Connect the wire harness to the controller.



For Mechanical or M94 with M93:

- Connect the motor wire harness and the trim monitor wire harness to the controller.
- Confirm the position of the trim monitor wire harness is set to “normally closed” (NC) or “normally open” (NO) as appropriate for the application. See Figure 8 on the next page.

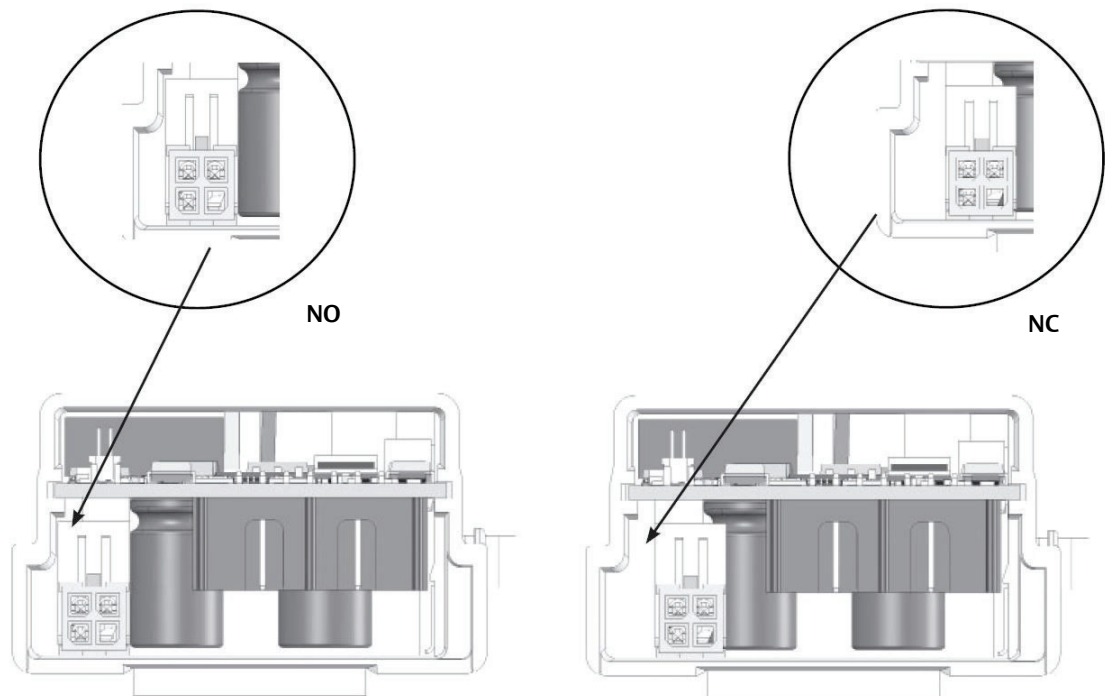
4

Retrofitting to the MELR, continued

r

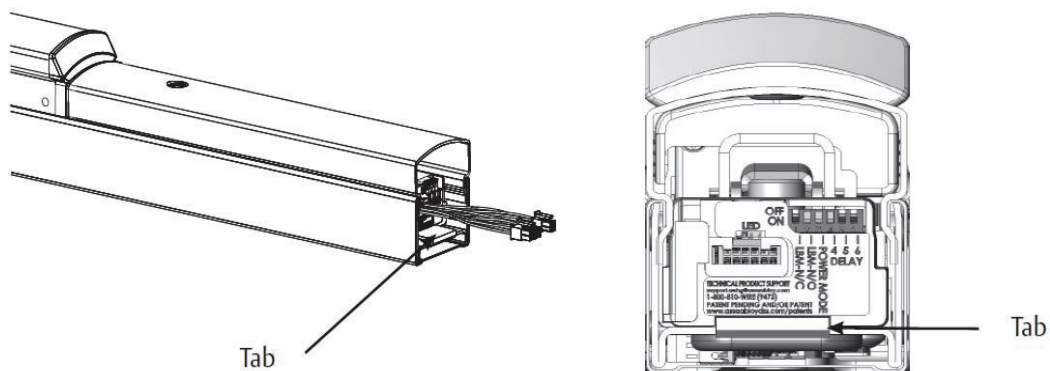
Connect the harness to the controller, continued

Figure 8 Normally Closed (NC) and Normally Open (NO) Trim Monitor Positions



s

Install the controller into the carrier assembly



- Slide controller into touch bar, making sure tab is securely attached over end of the carrier.

t

Install the carrier assembly on the door using the saved mounting hardware.

ED4000 & ED5000 Series

MELR Retrofit Upgrade

Installation Instructions



The ASSA ABLOY Group is the global leader in access solutions. Every day, we help billions of people experience a more open world.

ASSA ABLOY Opening Solutions leads the development within door openings and products for access solutions in homes, businesses and institutions. Our offering includes doors, frames, door and window hardware, locks, perimeter fencing, access control and service.



Corbin Russwin
225 Episcopal Road
Berlin, CT 06037 USA
Phone: 800-543-3658