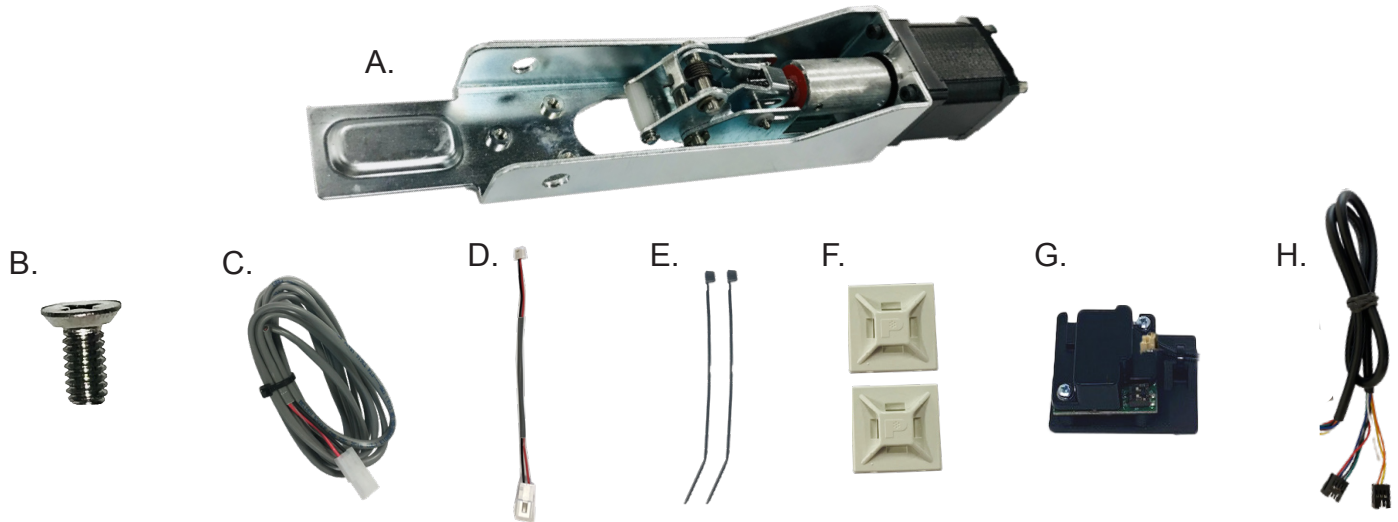# MLRK1-DOR

INSERT INSTRUCTIONS

The Command Access MLRK1 is a Field-installable motorized latch-retraction kit:
• MLRK1-DOR - Dorma 9000 series devices

A.

B.　　C.　　D.　　E.　　F.　　G.　　H.

KIT INCLUDES

A. 1 - MOTOR KIT
B. 1 - 40801 - PHILLIPS HEAD SCREW
C. 1 - 50030 - 6' POWER LEAD
D. 1 - 50944 - MOLEX PIGTAIL
E. 2 - 40060 - CABLE TIE

F. 2 - 40059 - MOUNTING PAD
G. 1 - 60368/51186 - REMOTE MM4S MODULE
H. 1 - 50741 - REMOTE MODULE CABLE

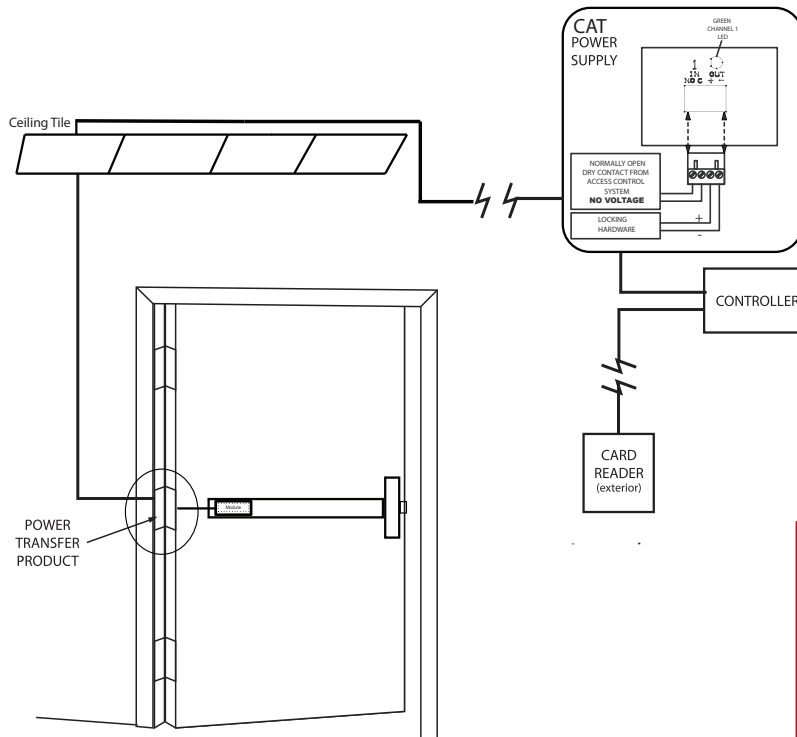**INSTALLATION VIDEO**

SPECIFICATIONS

- INPUT VOLTAGE: 24VDC +/- 10%
- AVERAGE LOW TORQUE LATCH RETRACTION CURRENT: 900 MA
- AVERAGE HIGH TORQUE LATCH RETRACTION CURRENT: 2A
- AVERAGE HOLDING CURRENT: 215 MA
- WIRE GAUGE: MINIMUM 18 GAUGE
- DIRECT WIRE RUN - NO RELAYS OR ACCESS CONTROL UNITS IN-BETWEEN POWER SUPPLY & MODULE

OPTIONAL BUILT-IN REX
- SPDT - RATED .5A @24V
- GREEN= COMMON (C)
- BLUE = NORMALLY OPEN (NO)
- GREY = NORMALLY CLOSED (NC)

RECOMMENDED POWER SUPPLIES: USE A POWER LIMITED CLASS 2 POWER SUPPLY

ALL COMMAND ACCESS EXIT DEVICES & FIELD INSTALLABLE KITS HAVE BEEN THOROUGHLY CYCLE TESTED WITH COMMAND ACCESS POWER SUPPLIES AT OUR FACTORY. IF YOU PLAN ON USING A NON-COMMAND POWER SUPPLY IT MUST BE A FILTERED & REGULATED LINEAR POWER SUPPLY.

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#20452_C

COMMAND ACCESS
TECHNOLOGIES

Ceiling Tile

CAT
POWER
SUPPLY

GREEN
CHANNEL 1
LED

1 IN   OUT
NO C   + —

NORMALLY OPEN
DRY CONTACT FROM
ACCESS CONTROL
SYSTEM
NO VOLTAGE

LOCKING
HARDWARE

CONTROLLER

CARD
READER
(exterior)

POWER
TRANSFER
PRODUCT

SETTING PTS

→ ****IMPORTANT INFO**** ←

MAKE SURE TO SET PTS BEFORE FINISHING INSTALLATION

MM4S SWITCHES

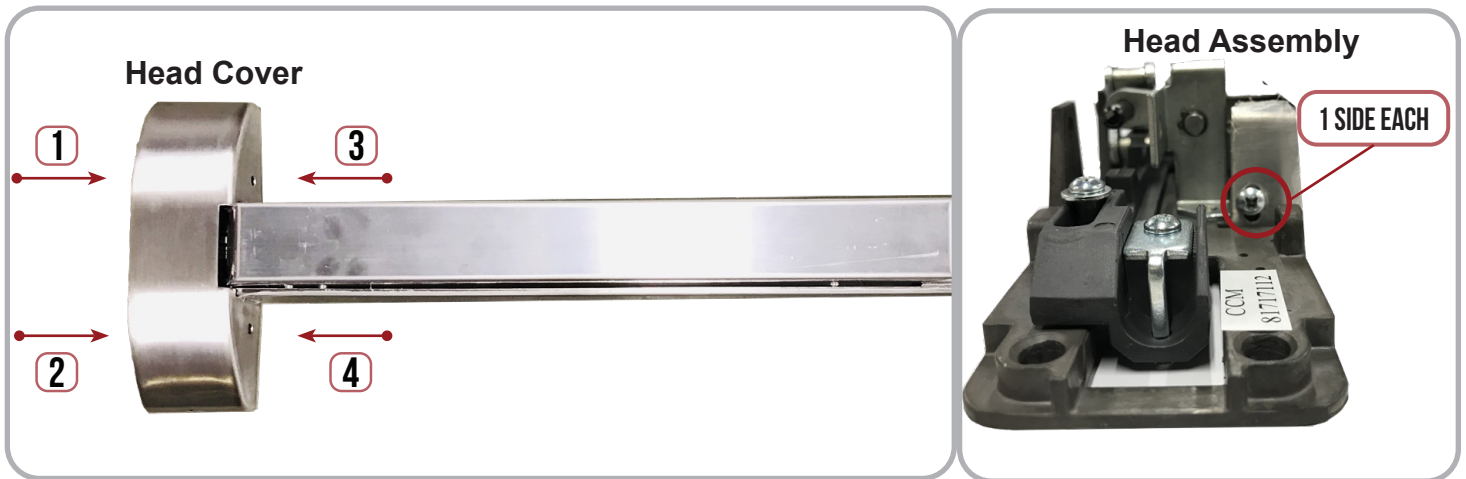|		
1	OFF	STANDARD TORQUE
	ON	HIGH TORQUE
2	ON	PTS PROGRAMMING ON
	OFF	PTS PROGRAMMING OFF

INPUT
POWER

OFF   OFF

2   1

MM4S

ON   ON

STEP 1- SELECT YOUR PREFERRED TORQUE MODE (SHIPS IN STANDARD TORQUE) PRESS THE DEVICE PUSH PAD TO THE DESIRED SETTING. (RECOMMEND TO FULLY DEPRESS AND RELEASE 5%, GIVING THE DEVICE ROOM FOR CHANGING DOOR CONDITIONS.)

STEP 2- WHILE DEPRESSING THE PUSH PAD, APPLY POWER. (I.E. PRESENTING THE CREDENTIAL TO THE READER).

STEP 3- CONTINUE TO KEEP PAD DEPRESSED, THE DEVICE WILL BEEP 6 TIMES. AFTER THE BEEPS HAVE STOPPED, RELEASE THE PAD AND NOW THE ADJUSTMENT IS COMPLETE. IF NOT TO YOUR LIKING REPEAT THE 3 STEPS.

STEP 4- ONCE YOU FOUND THE CORRECT LOCATION, TURN PTS SWITCH TO OFF POSITION.
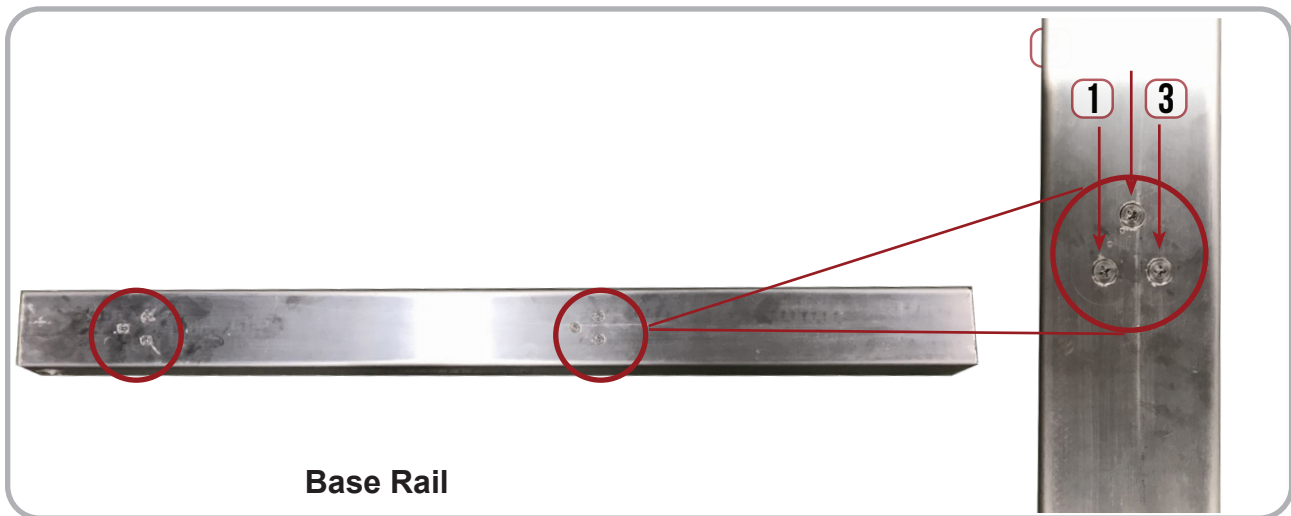
TROUBLESHOOTING & DIAGNOSTICS

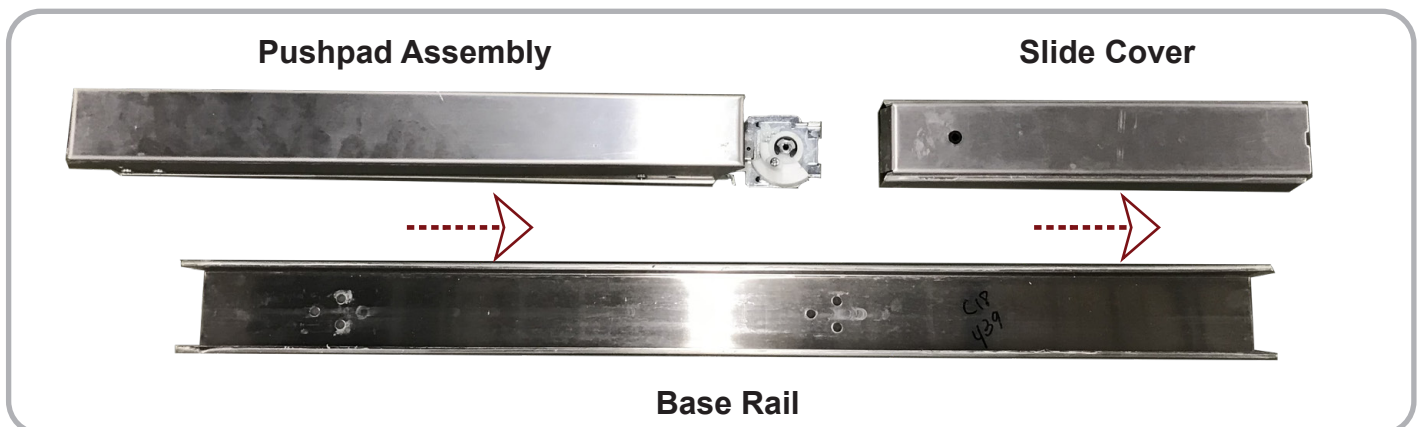| BEEPS	EXPLANATION	SOLUTION
2 BEEPS	OVER VOLTAGE	> 30V UNIT WILL SHUT DOWN. CHECK VOLTAGE & ADJUST TO 24 V.
3 BEEPS	UNDER VOLTAGE	< 20V UNIT WILL SHUT DOWN. CHECK VOLTAGE & ADJUST TO 24 V.
4 BEEPS	FAILED SENSOR	VERIFY ALL 3 SENSOR WIRES ARE INSTALLED CORRECTLY. REPLACE SENSOR IF PROBLEM PERSISTS BY CONTACTING OFFICE.
5 BEEPS	RETRACTION OR DOGGING FAILURE	**AFTER 1ST FAIL**: 5 BEEPS THEN IMMEDIATELY ATTEMPTS TO RETRACT AGAIN. **AFTER 2ND FAIL**: 5 BEEPS WITH PAUSE IN-BETWEEN FOR 30 SECONDS THEN DEVICE ATTEMPTS TO RETRACT AGAIN. **AFTER 3RD FAIL**: 5 BEEPS EVERY 7 MINUTES, DEVICE WILL NOT ATTEMPT TO RETRACT. TO RESET: DEPRESS BAR FOR 5 SECONDS AT ANY TIME.
6 BEEPS	PUSH TO SET	DEVICE IS RECORDING IT'S NEW POSITION AND POWER MODE AFTER THE 6TH BEEP.

INSTALLATION INSTRUCTIONS

COMMAND ACCESS
TECHNOLOGIES

1 Remove **Head Cover** (4 screws) and **Head Assembly** (2 screws).

Head Cover

① ③

② ④

Head Assembly

1 SIDE EACH

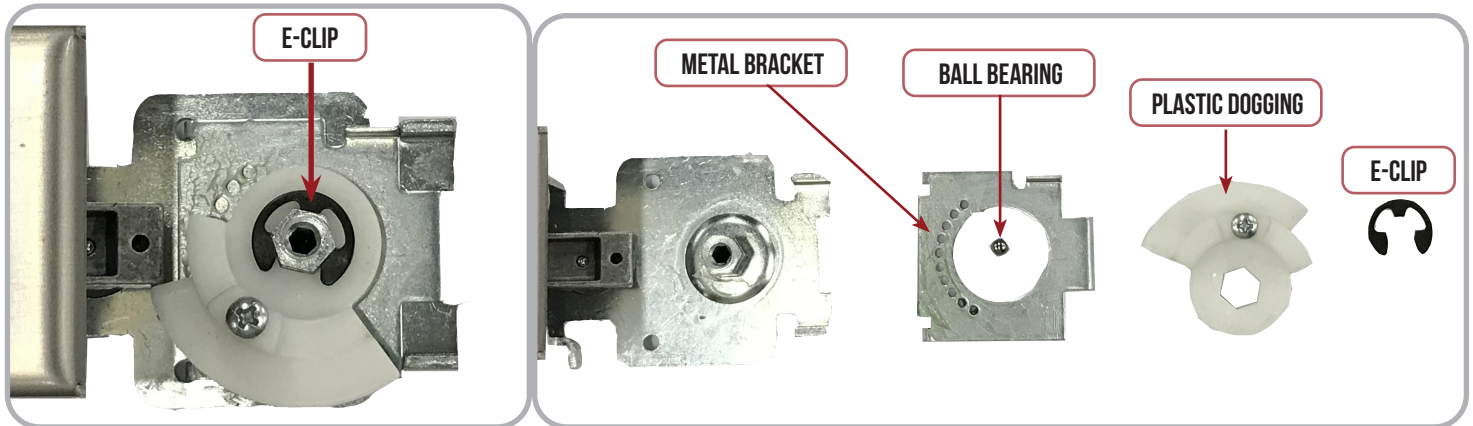**2** Flip the bar over and remove the **6 Screws** holding the Push Pad Assembly to the **Base Rail.**

① ③

Base Rail

3 Slide **Pushpad Assembly** and **Slide Cover** out of the **Base Rail.**

Pushpad Assembly

Slide Cover

Base Rail

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COMMAND ACCESS TECHNOLOGIES
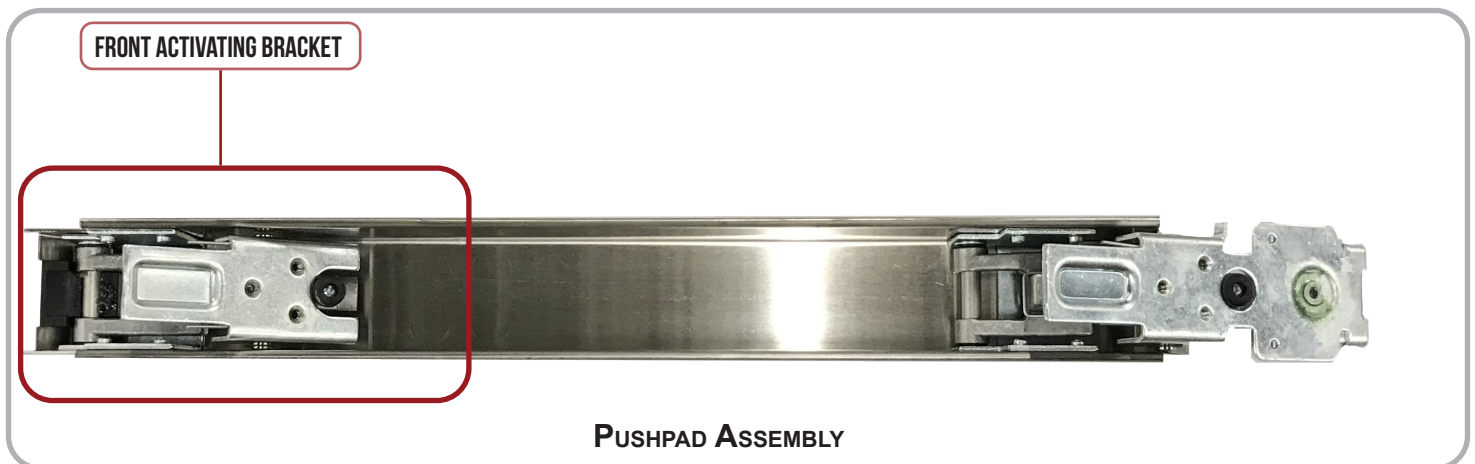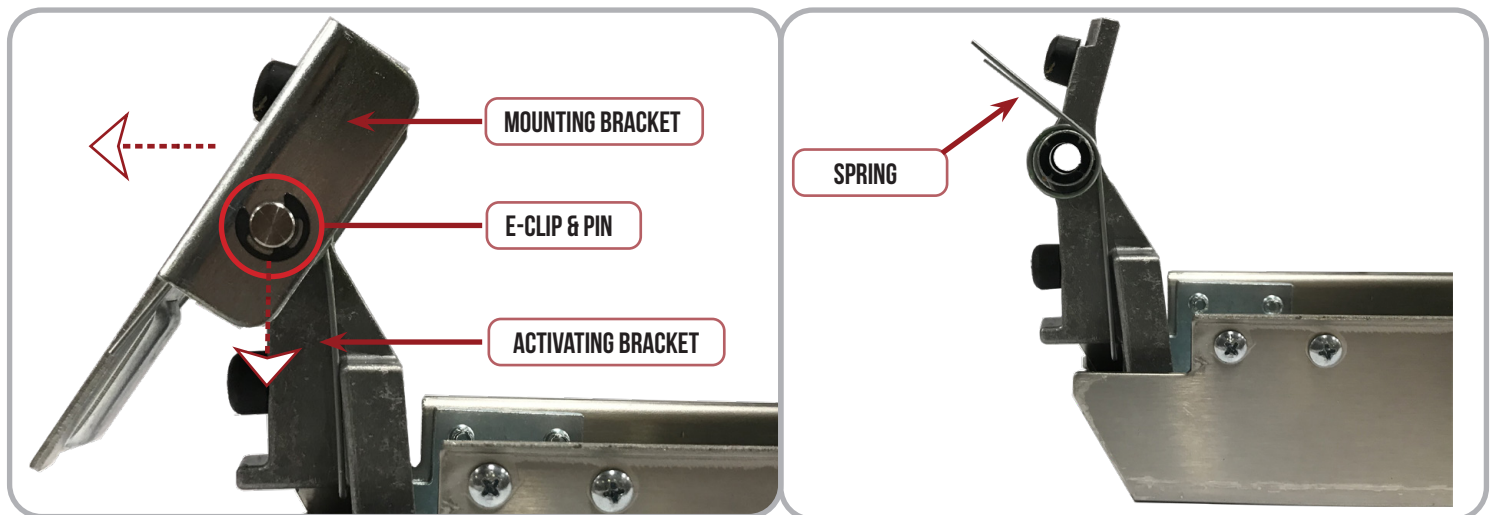
4 If you would prefer not to have **Dogging** on your device, simply remove the **E-Clip** and the **Plastic Dogging Piece**, **Ball Bearing** and **Metal Bracket** can be taken off.

E-CLIP

METAL BRACKET

BALL BEARING

PLASTIC DOGGING

E-CLIP

5 Flip **Pushpad Assembly** over and locate the **Front Activating Bracket**.
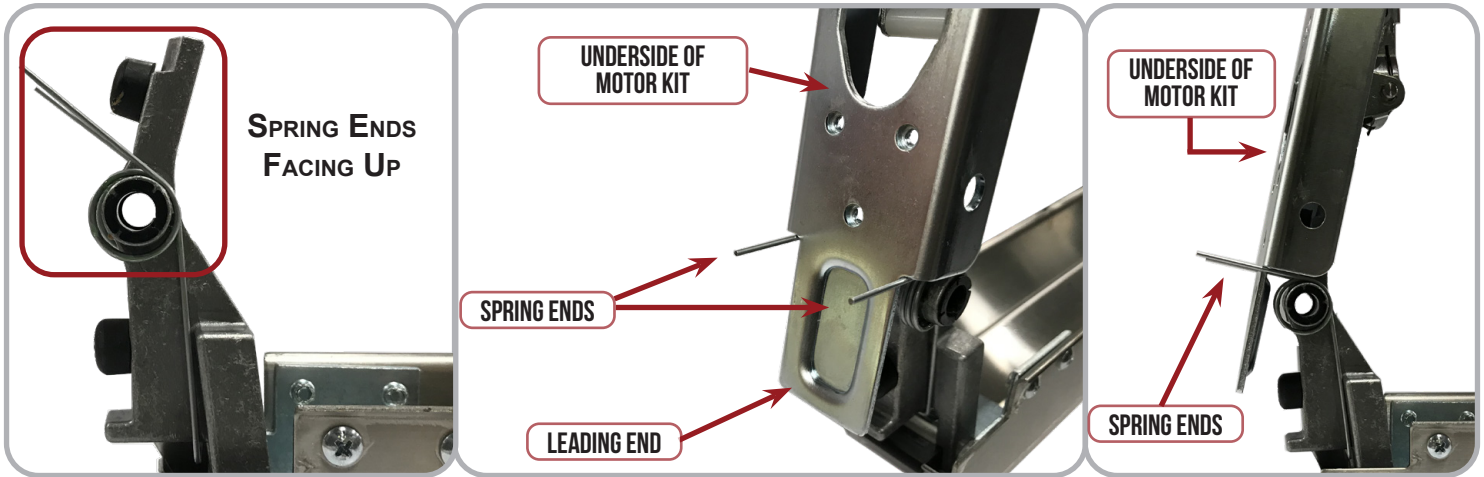
FRONT ACTIVATING BRACKET

PUSHPAD ASSEMBLY

6 Remove the **E-Clip** from the **Pin** that holds the **Mounting Bracket** to the **Activating Bracket**. Slide the **Pin** out and take the **Mounting Bracket off**. *Careful, these Brackets are under spring pressure.

MOUNTING BRACKET

E-CLIP & PIN

ACTIVATING BRACKET

SPRING

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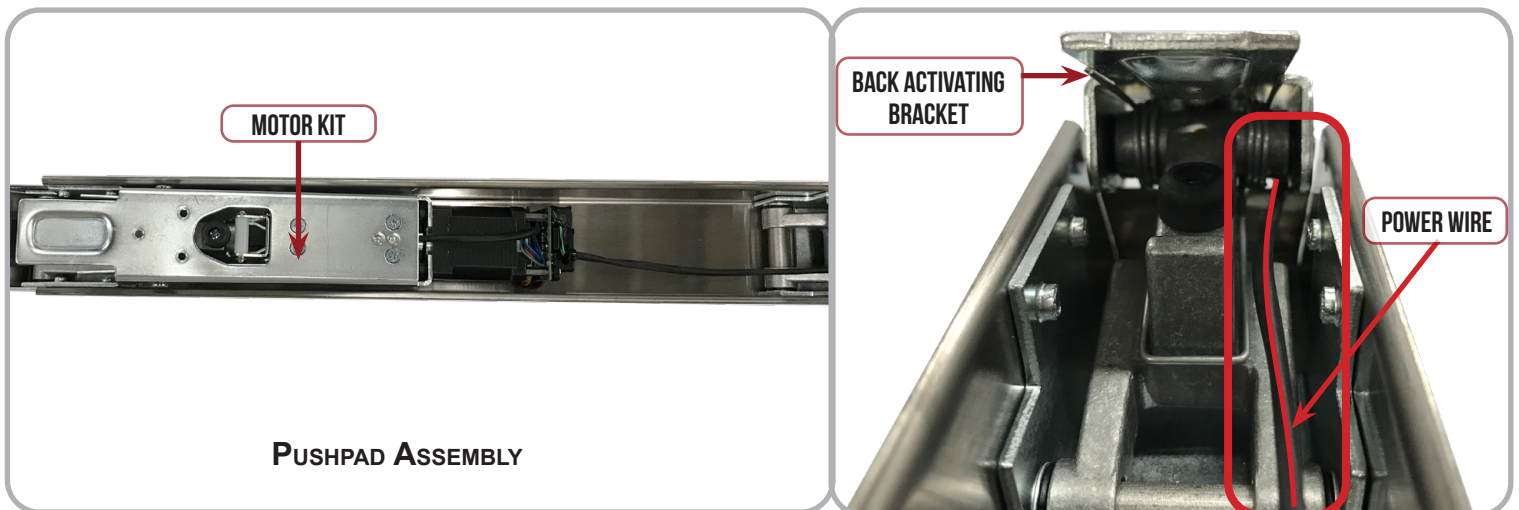1-855-823-3002

COMMAND ACCESS
TECHNOLOGIES

7 With the **Spring Ends** facing up, slide the **Motor Kit** down and in between them. Ensure the **Spring Ends** are on the sides of the **Leading End** of the **Motor Kit Mounting Bracket**.

SPRING ENDS
FACING UP

UNDERSIDE OF
MOTOR KIT

SPRING ENDS

LEADING END

UNDERSIDE OF
MOTOR KIT

SPRING ENDS

8 Use your fingers to hold down the **Spring Ends** and slide the **Motor Kit** until its cutout aligns with the **Activating Bracket's Pin Hole**. Re-install the **Pin** and secure it with the **E-Clip**.
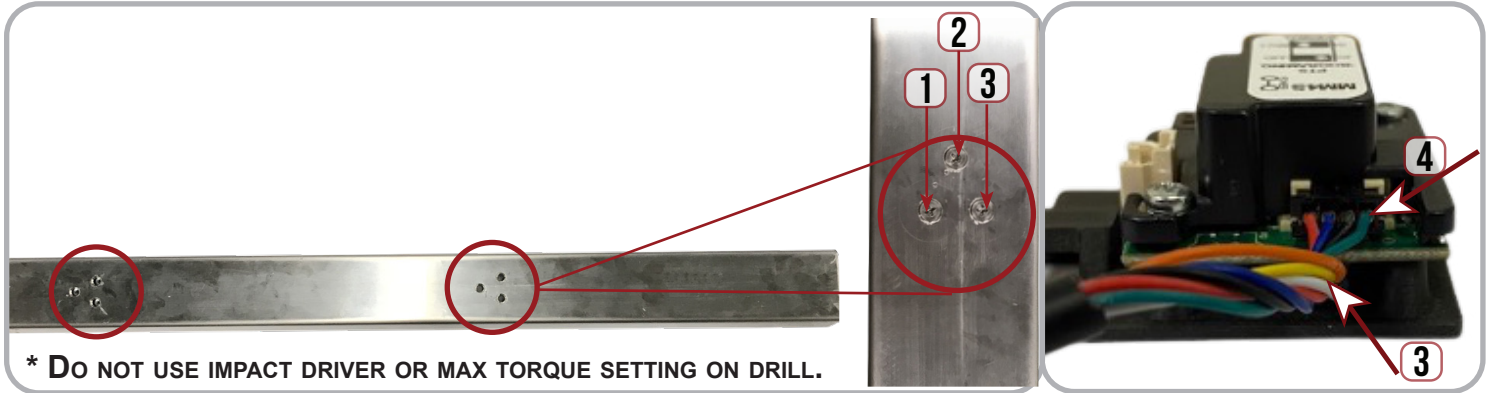
SLIDE
MOTOR KIT

HOLD DOWN
SPRING ENDS

PIN & E-CLIP

9 Lay the **Motor Kit** down into the **Pushpad Assembly**, then route the **Power Wire** through the **Back Activating Bracket** as shown.
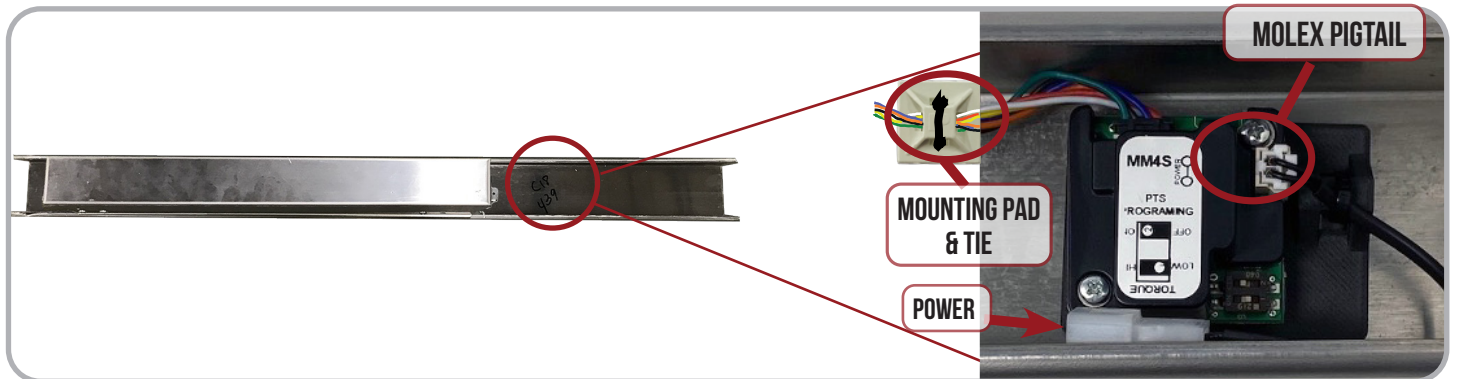
MOTOR KIT

PUSHPAD ASSEMBLY

BACK ACTIVATING
BRACKET

POWER WIRE

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COMMAND ACCESS
TECHNOLOGIES

10 **Slide the Base Rail over the Pushpad Assembly** until all 6 holes are aligned, re-install the screws. **Plug-in cable's** (4) Pin TOP port & (3) Pin BOTTOM port into MM4S ports.

* DO NOT USE IMPACT DRIVER OR MAX TORQUE SETTING ON DRILL.

11 Slide the **Base Rail** over the **Pushpad Assembly** until all **6 holes** are aligned, re-install the screws. Using double sided tape, **secure MM4S** to inside of the back of exit device housing. Connect Molex Pigtail. **Add Mounting Pad & cable tie** to secure cable wires.

MOLEX PIGTAIL

MOUNTING PAD & TIE

POWER

12 Re-install the **Head Assembly, Head Cover and Cover Plate**. *You may have to turn the plastic dogging piece in order to fully install the Slide Cover. Connect to Power & **Set Push To Set position** following the instructions below.

STEP 1- SELECT YOUR PREFERRED TORQUE MODE (SHIPS IN STANDARD TORQUE) PRESS THE DEVICE PUSH PAD TO THE DESIRED SETTING. (RECOMMEND TO FULLY DEPRESS AND RELEASE 5%, GIVING THE DEVICE ROOM FOR CHANGING DOOR CONDITIONS.)

STEP 2- WHILE DEPRESSING THE PUSH PAD, APPLY POWER. (I.E. PRESENTING THE CREDENTIAL TO THE READER).

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STEP 4- ONCE YOU FOUND THE CORRECT LOCATION, TURN PTS SWITCH TO OFF POSITION.

MM4 SWITCHES

1	OFF	STANDARD TORQUE
	ON	HIGH TORQUE
2	ON	PTS PROGRAMMING ON
	OFF	PTS PROGRAMMING OFF

INPUT POWER
OFF OFF
2 1
ON ON
MM4S

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