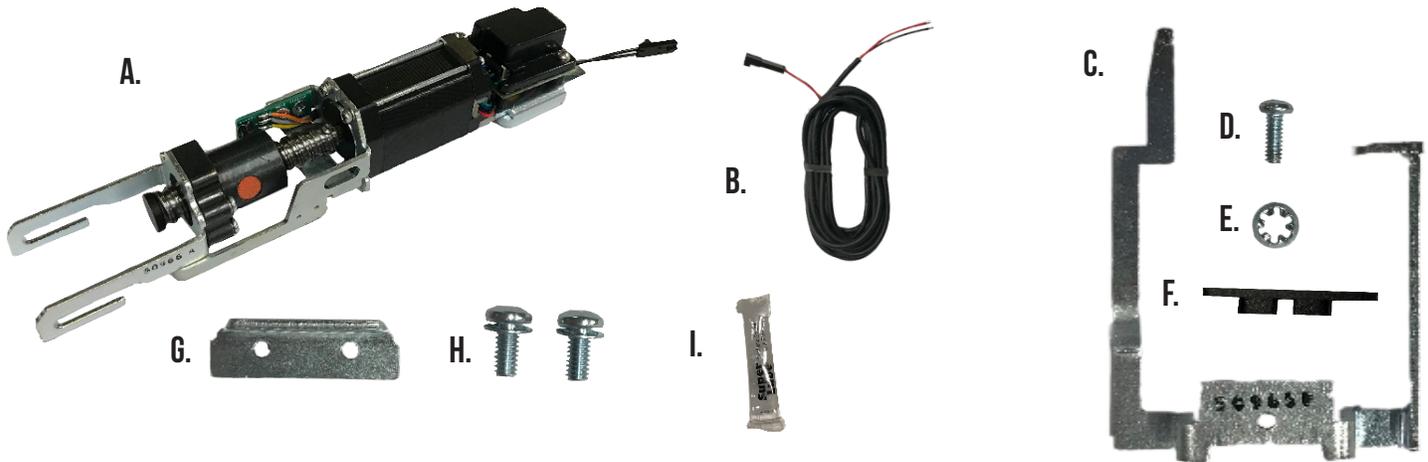# MLRK1

INSERT INSTRUCTIONS

The Command Access MLRK1 is a field installable motorized latch-retraction kit for:
• MLRK1-AR - Adams Rite 82/84/86/88 series devices

NOTE: Our kit is designed to work with devices manufactured after 2003 due to changes in the exit device housing. <u>If you try to install our kit in an older device (pre-2003) it will take significant modification.</u> For any questions please contact the factory.

A. B. C. D. E. F. G. H. I.

KIT INCLUDES

A. 60199 MLRK1-AR
B. 50436 8' POWER LEAD
C. 50965 MAGNET BRACKET
D. 40812 PHILLIPS SCREW
E. 40813 LOCK WASHER

F. 50990 SCREW SHIM
G. 50799 HOLD DOWN BRACKET
H. 40771 PHILLIPS SCREW W/WASHER X2
I. 40393 SUPER LUBE

TOOLS REQUIRED
#1 AND #2 PHILLIPS SCREWDRIVER

SPECIFICATIONS

• Input Voltage: 24VDC +/- 10%
• Wire gauge: Minimum 18 gauge
• Direct wire run - no relays or access control units in-between power supply & module
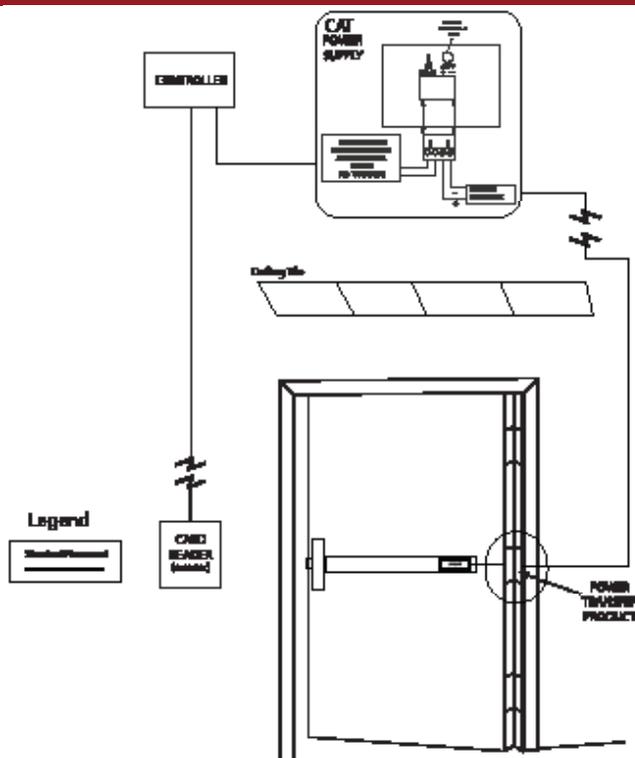
STANDARD TORQUE MODE
Average Latch Retraction Current: 1.3 Amp
Average Holding Current: 215 mA

HIGH TORQUE MODE
Average Latch Retraction Current: 2 Amp
Average Holding Current: 250 mA

RECOMMENDED POWER SUPPLIES:

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.
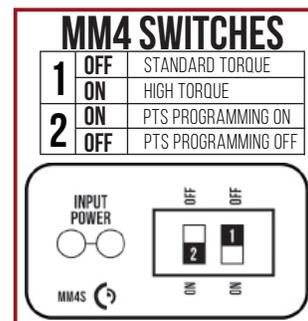
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**SCAN ME FOR
MORE INFORMATION**

SETTING PTS
IMPORTANT INFO
MAKE SURE TO SET PTS BEFORE FINISHING INSTALLATION

STEP 1 - Select your preferred torque mode (ships in standard torque). Press the device push pad to the desired setting. (We 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 the pad depressed, the device will beep 6 times. After the beeps have stopped, release the pad and the adjustment is now complete. If not to your liking repeat the 3 steps.

MM4 SWITCHES

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

INPUT POWER   OFF   OFF

MM4S   2   1   ON   ON

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.

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1 Lay the MLRK1-AR down and adjust the **Ballscrew** so it is behind the **Retaining Arm Stop,** leaving a small gap between the **Ballscrew** and **Overtravel Cap**.
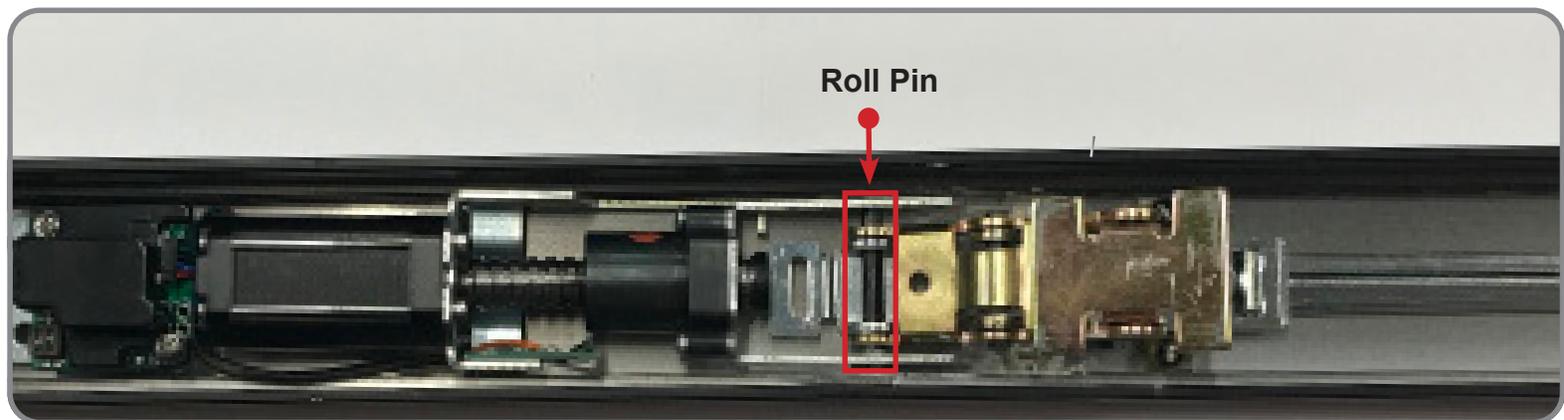
Ballscrew

Hooks   Retaining Arm Stop

Ballscrew

Overtravel Cap

Retaining Arm Stop
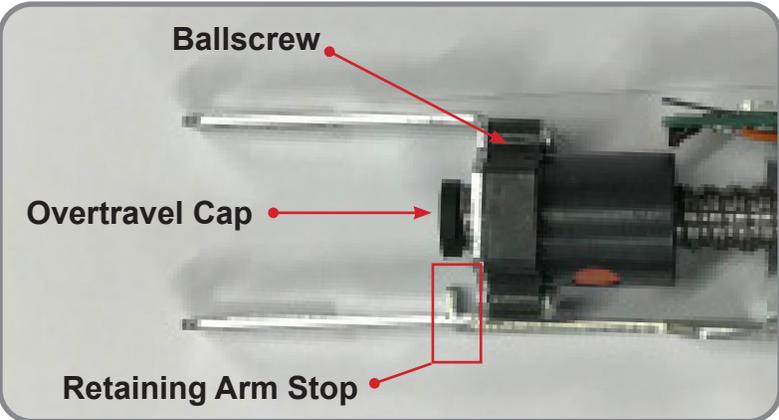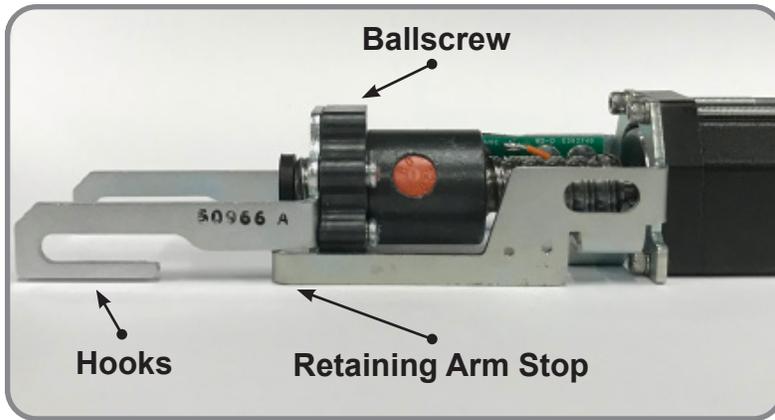
* Note that the **Hooks** on the Ballscrew Bracket will be referenced in Step 3.

**2** Depress and hold down the **Activating Scissor Brackets** to drop in the Kit.

3 Install the Kit into the back of the Exit Device, ensuring it is laying completely flat and the **Ballscrew Hooks** are in front of the **Device Roll Pin**.
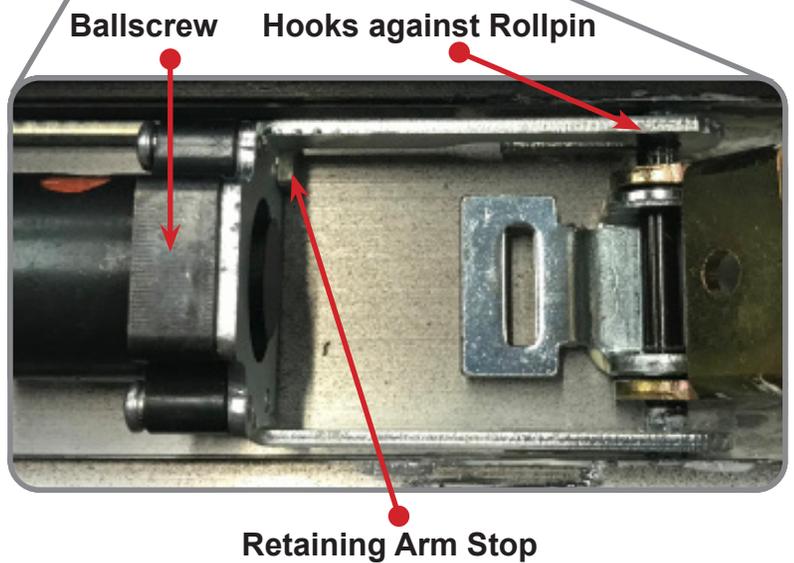
Roll Pin

4 Release the Activating Scissor Brackets, gently pull the Kit back by the **Motor** until the **Ballscrew** is touching the **Retaining Arm Stop**. (See Figure 4.A)


Motor

4.A

Ballscrew   Hooks against Rollpin
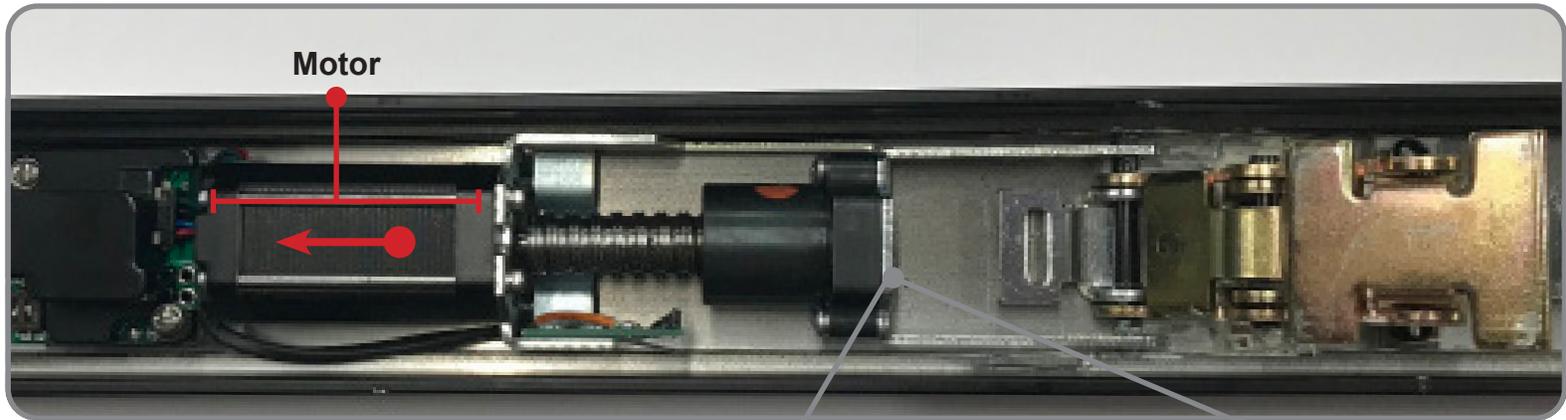
* The MLRK1-AR's position shown in 4.A shows the correct position for the Hooks and the Retaining Arm Stop.

Retaining Arm Stop

G.

5 Position the **Hold Down Bracket** (50799) with the **Tab** facing up and to the back of the device, then slide it under the Kit until the holes align. While gently pulling on the motor to keep the Kit in position screw in the two **Phillips Screws with Lock Washers** (40771) and tighten.

H.

Tab
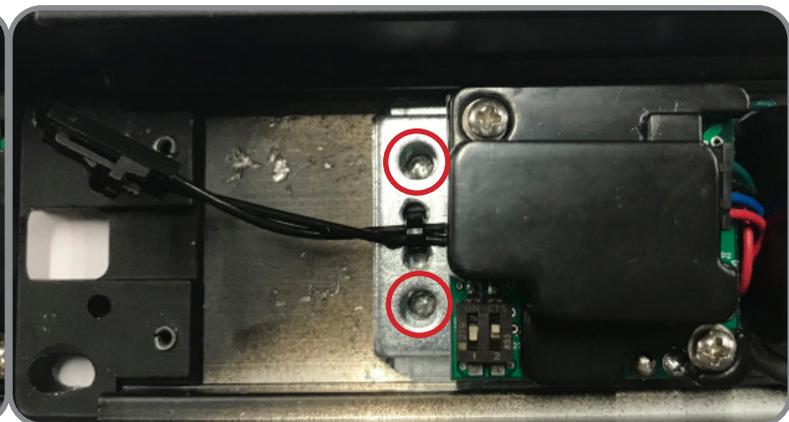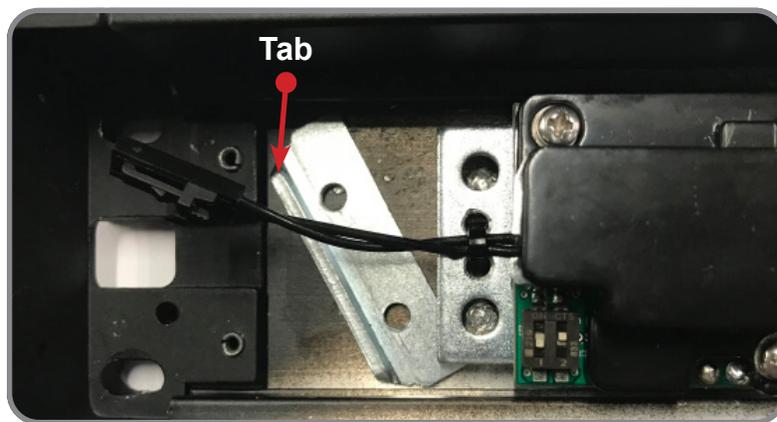
6 Before installing the **Magnet Bracket** (50965) apply a light coating of **Super Lube** (40393) to **The Middle Channel Cutout**. To place the bracket correctly, align the **Magnet** to the Kit's **Sensor** with the **U Channel** facing the bottom of the device's back rail.

Magnet

Sensor

U channel

Middle Channel Cutout

To the bottom of the device's back rail
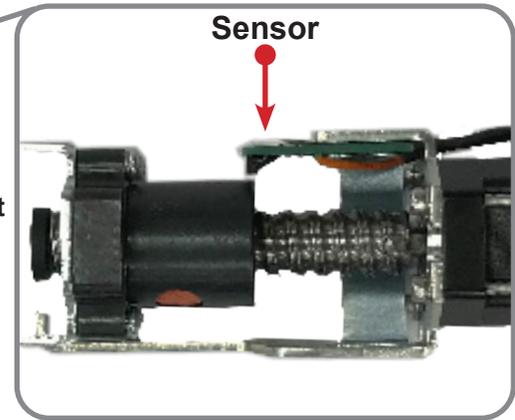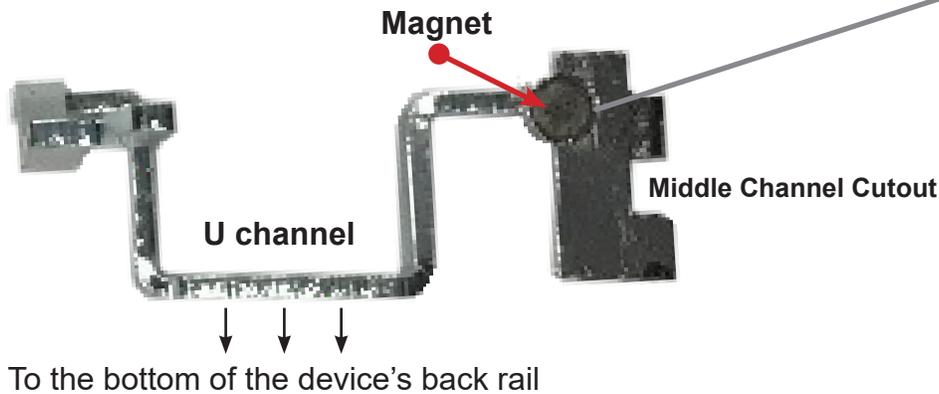
7 Install the **Magnet Bracket** (50965) at an angle, allowing the **Middle Channel Cutout** to ride on the **Back Rail Extrusion** (See picture 1). Push the **Bracket** down and when seated properly it should be below the **Device's Activating Linkage** (See picture 2).

1

Back Rail Extrusion

Magnet Bracket   Activating Linkage

2
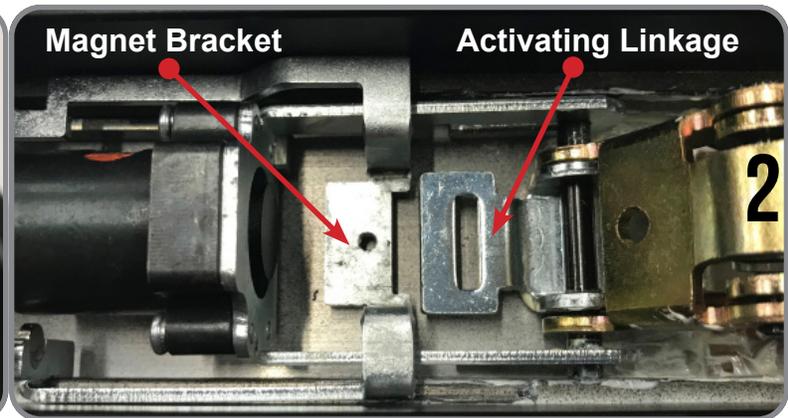
8 Slide the **Magnet Bracket** (50965) forward and under the **Activating Linkage**. The **Screw Shim** (50990) has **Raised Guides** that must be installed downwards into the **Activating Linkage**.
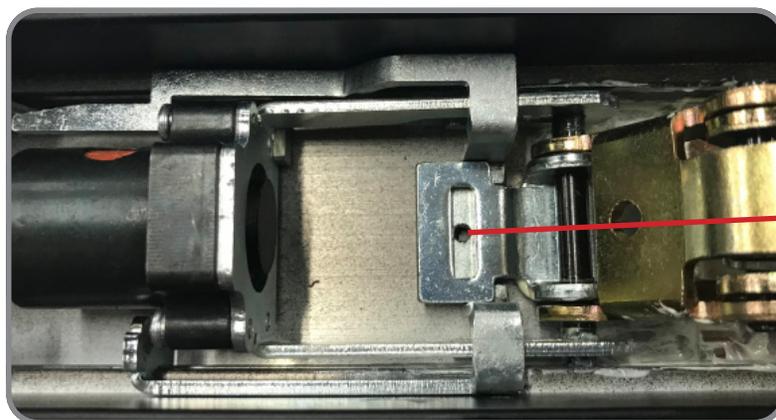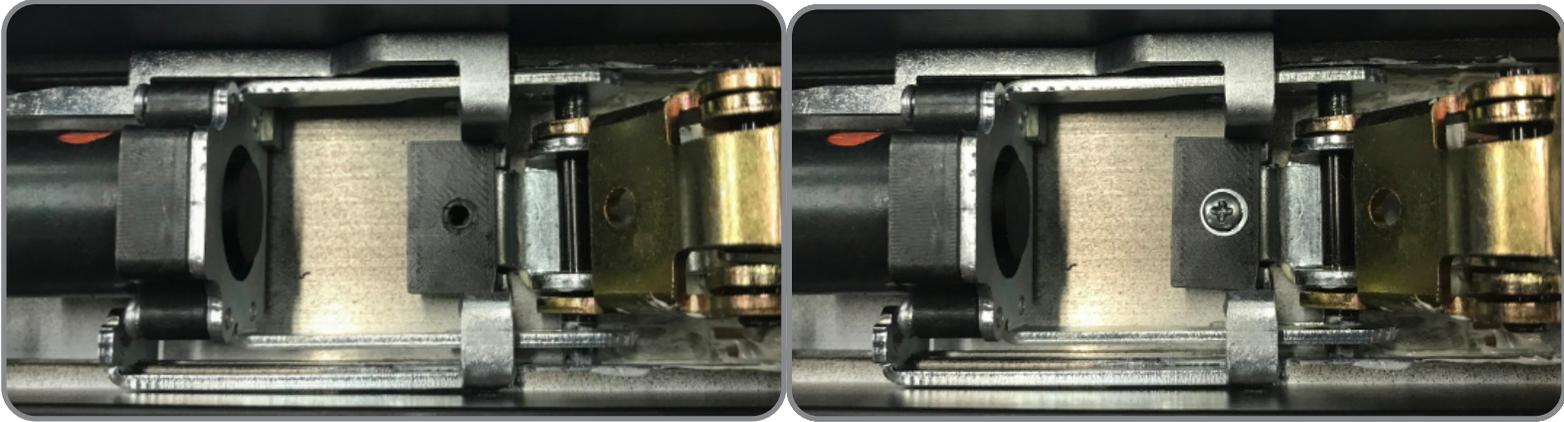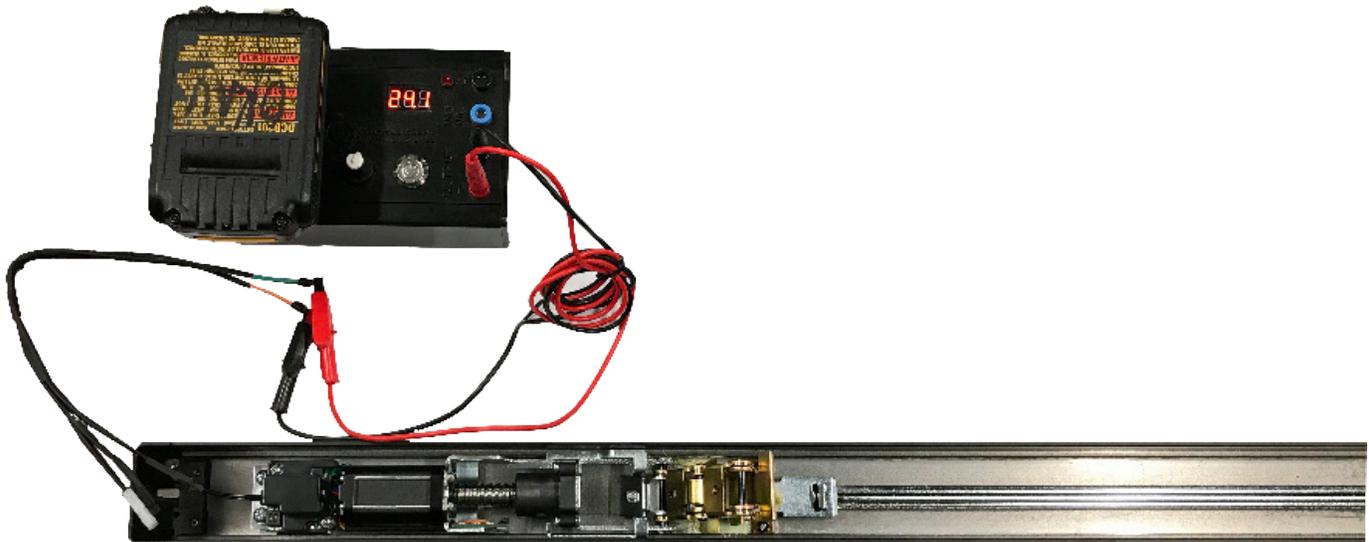

Screw Shim

Raised Guides downwards

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9 Push the **Screw Shim** (50990) into the **Activating Linkage** then install the **Phillips Screw** (40812) and **Lock Washer** (40813). *** HAND TIGHTEN ONLY ***

10 Connect the MLRK1-AR to power and follow the Push To Set instructions below, remembering to turn the Programming Switch to the off position when completed.

SETTING PTS
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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