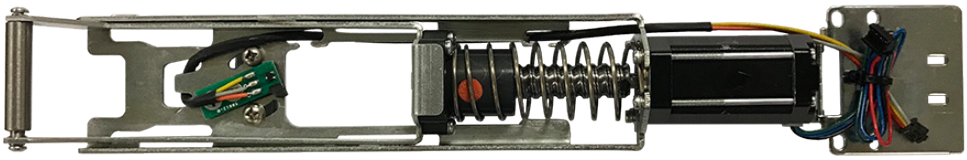
MLRK1

INSERT INSTRUCTIONS

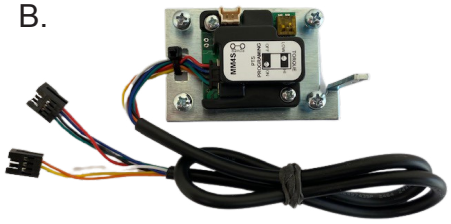
The Command Access MLRK1 is a field-installable motorized latch-retraction kit for:

- MLRK1-JAC 12 - Jackson 1285, 1286 and 1295 series devices
- MLRK1-KAW17 - Kawneer 1686 and 1786 series devices
- MLRK1-AHT - AHT 8 and 9 series devices

A.



B.



C.

D.

E.

G.

F.

H.

KIT INCLUDES

A. 60241 – MLRK1 MOTOR
B. 60264 – MM4 MODULE
C. 50453 – MAGNET BRACKET
D. 40040 – PHILLIPS SCREWS (X2)
E. 40059 – CABLE MOUNTING PAD
F. 40060 – CABLE TIE (X2)
G. 50636 – CABLE GUIDES (X3)
H. 50944 – MOLEX PIGTAIL

TOOLS REQUIRED

- CORDLESS DRILL
- 1/16" DRILL BIT
- MINOR CUTTING TOOLS AND FILE
- #0 PHILLIPS SCREWDRIVER
- #2 PHILLIPS SCREWDRIVER

SPECIFICATIONS

- INPUT VOLTAGE: 24VDC +/- 10%
- STANDARD TORQUE AVERAGE LATCH RETRACTION CURRENT: 1.3A
- HIGH TORQUE AVERAGE 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

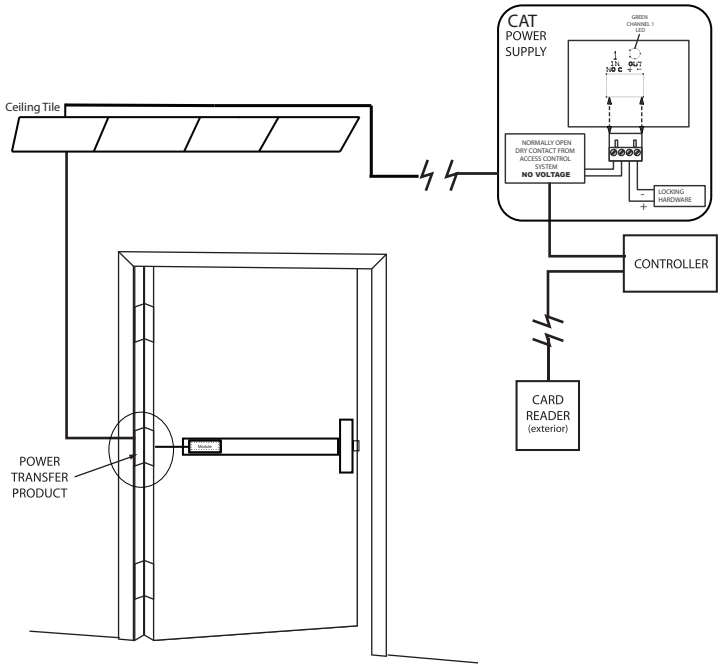
OPTIONAL BUILT-IN REX

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

RECOMMENDED POWER SUPPLIES:

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.

TECHNICAL INFORMATION



SCAN ME FOR MORE INFORMATION

SETTING PTS

****IMPORTANT INFO****

MAKE SURE TO SET PTS BEFORE FINISHING INSTALLATION

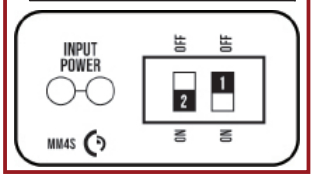
STEP 1 - Select your preferred torque mode (ships in standard torque). Press the device push pad to the desired setting. (We recommend to fully depress and release 5%, giving the device room for changing door conditions.)

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



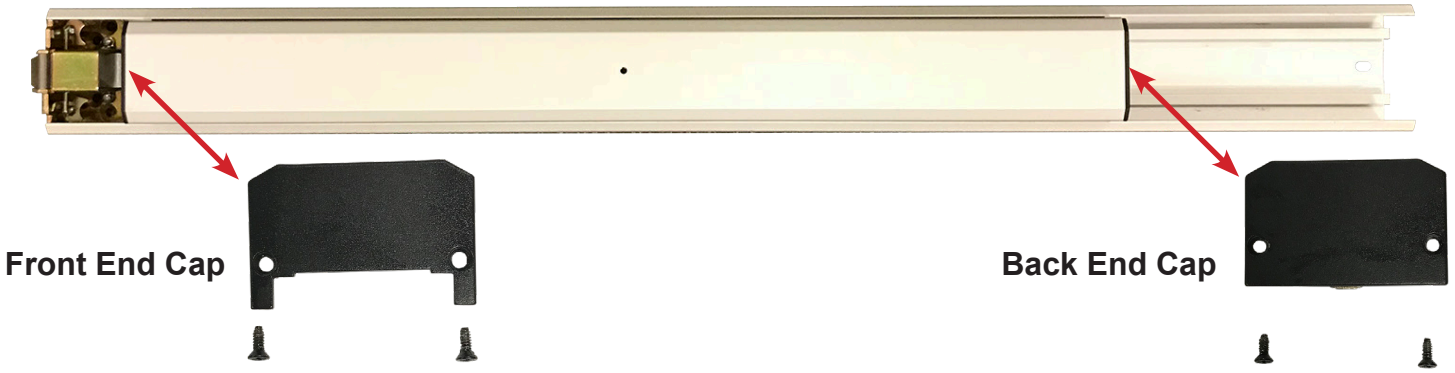
TROUBLESHOOTING & DIAGNOSTICS

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.

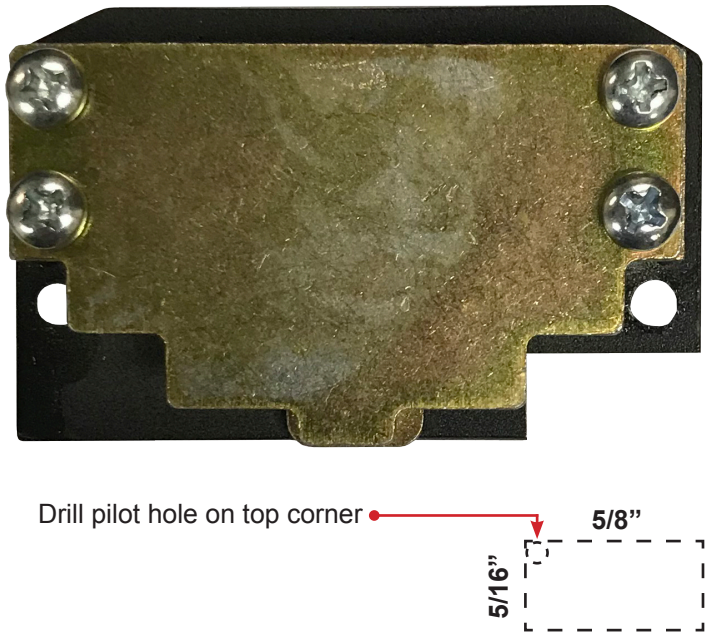
INSTALLATION INSTRUCTIONS

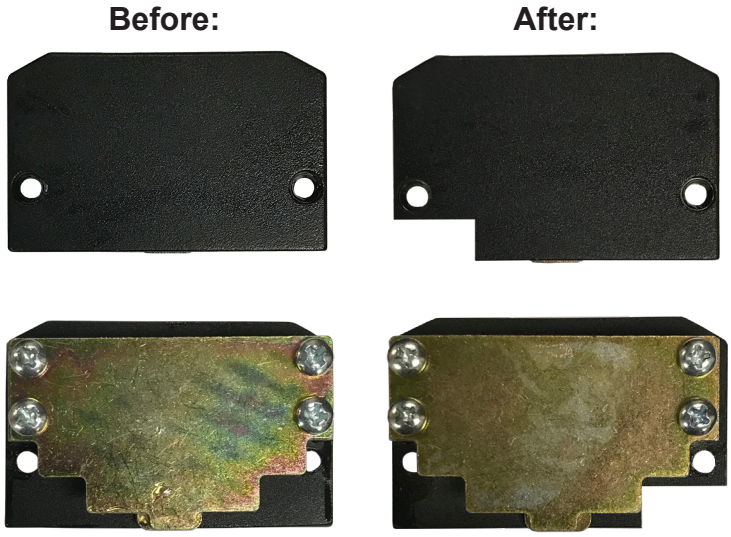
COMMAND ACCESS TECHNOLOGIES

1 Remove the **Front** and **Back End Caps**, which are held on by four screws (two each).



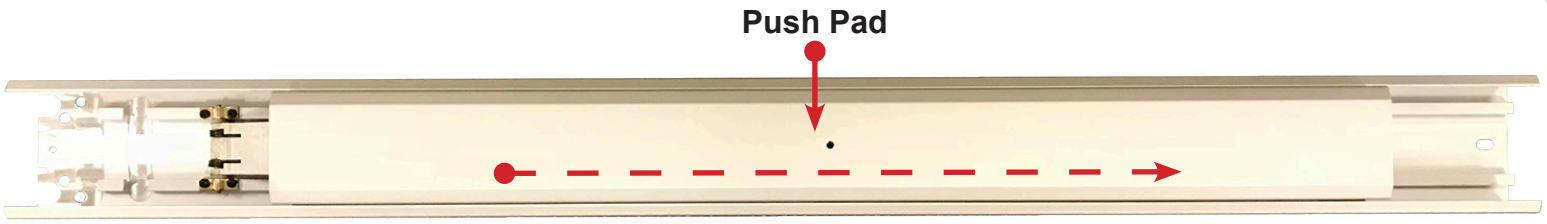
2 Material will need to be removed from the **Back End Cap**.



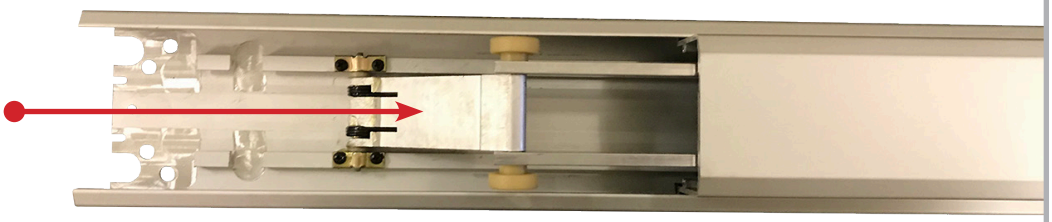


3 Flip the bar over to remove **Head Assembly**. RIM devices will be held in by 1 screw, CVR devices by 2.

4 Flip the device back over and slide the **Push Pad** to the right, exposing the **Front Activating Bracket**. *Move the Push Pad slowly as some Front Activating Bracket pieces are held in by the Push Pad and tend to fall out when exposed.



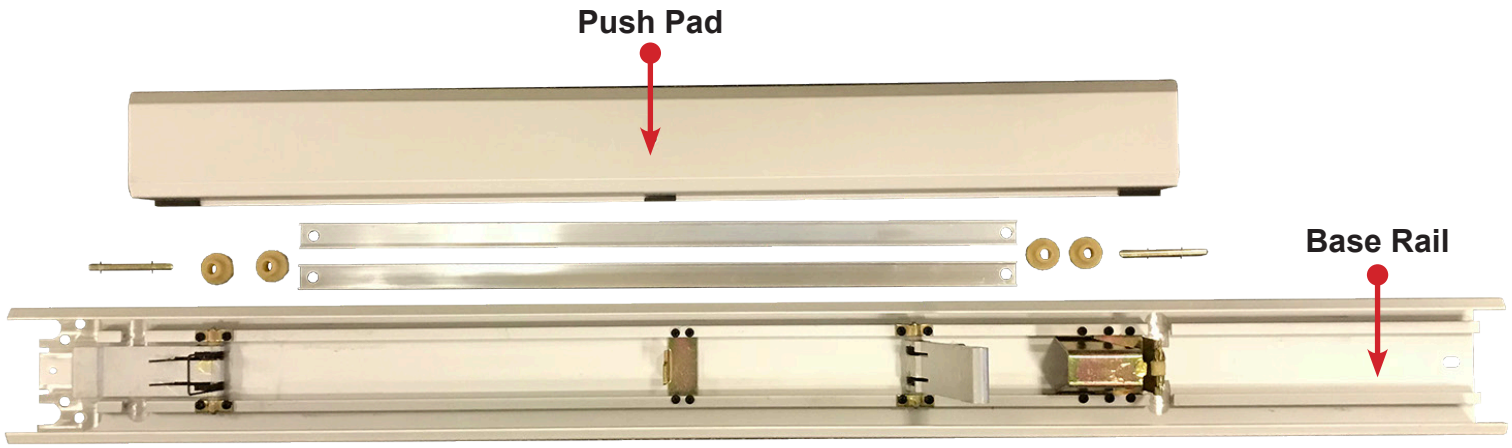
5 With the **Front Activating Bracket** exposed, remove the **Guides**, **Thin Clear Washers** and **Roll Pin**.



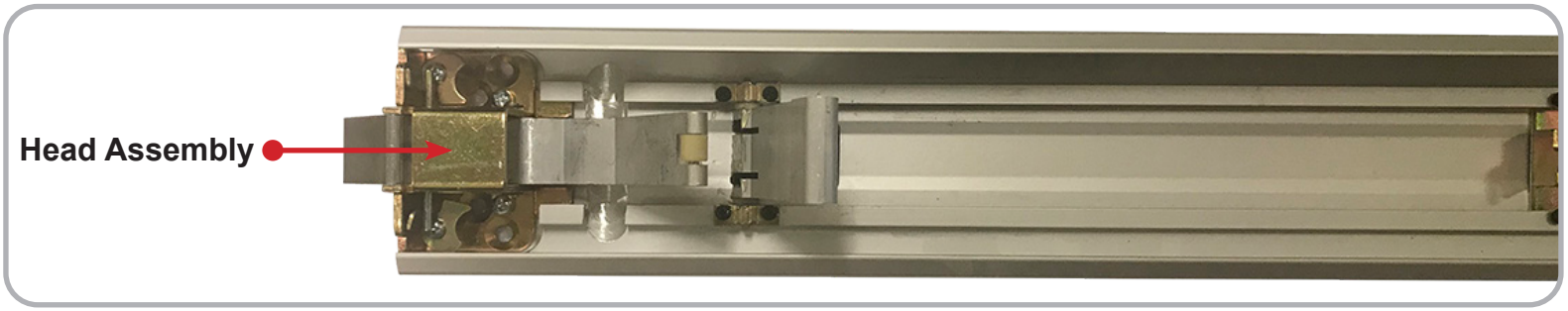
Roll Pin with **Thin Clear Washers**
(Washers were placed Roll Pin to prevent losing them)

***Front Activating Bracket** is under spring pressure and will snap back once **Roll Pin** is removed.

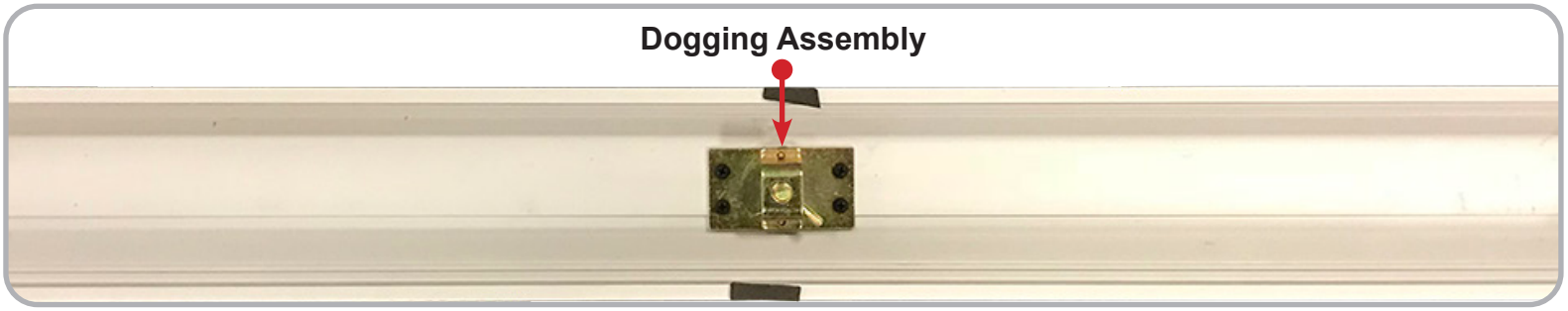
6 Slide the **Push Pad** to the left to expose the **Back Activating Bracket** and remove its pieces as well. Once removed, continue sliding the **Push Pad** to the left and remove it from the **Base Rail**.



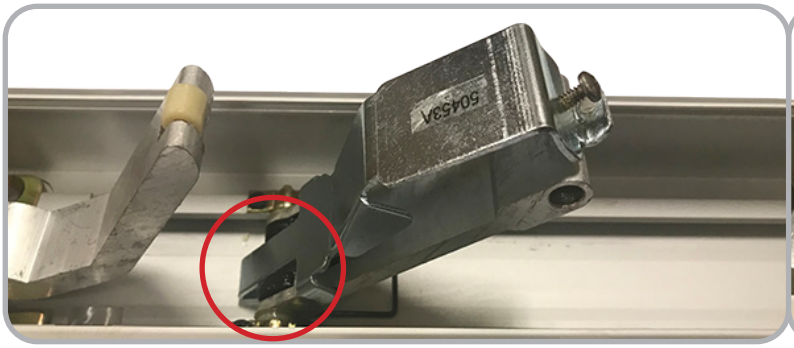
7 Reinstall the **Head Assembly**.

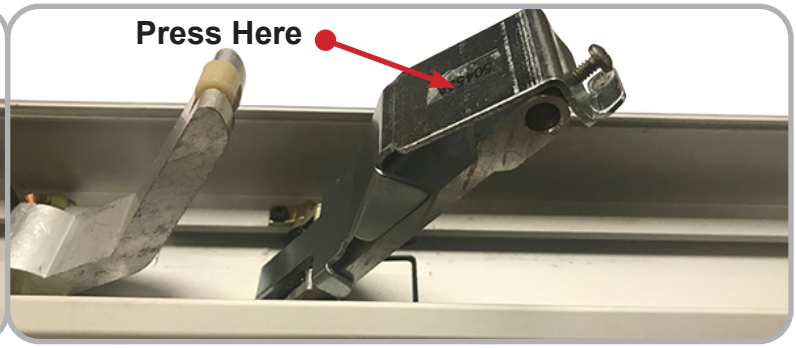


8 Flip the **Push Pad** over and remove the **Dogging Assembly** underneath (four screws).

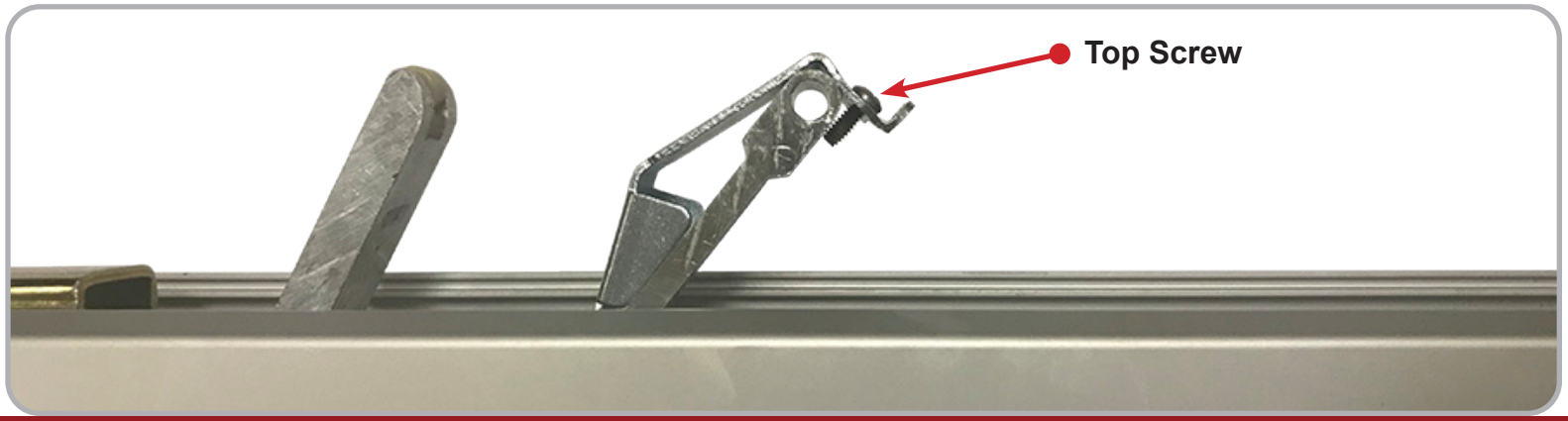


9 Install the **Magnet Bracket** by first hooking the bottom tab under the **Front Activating Bracket**. Then press on the top plane to snap the **Magnet Bracket** in place.

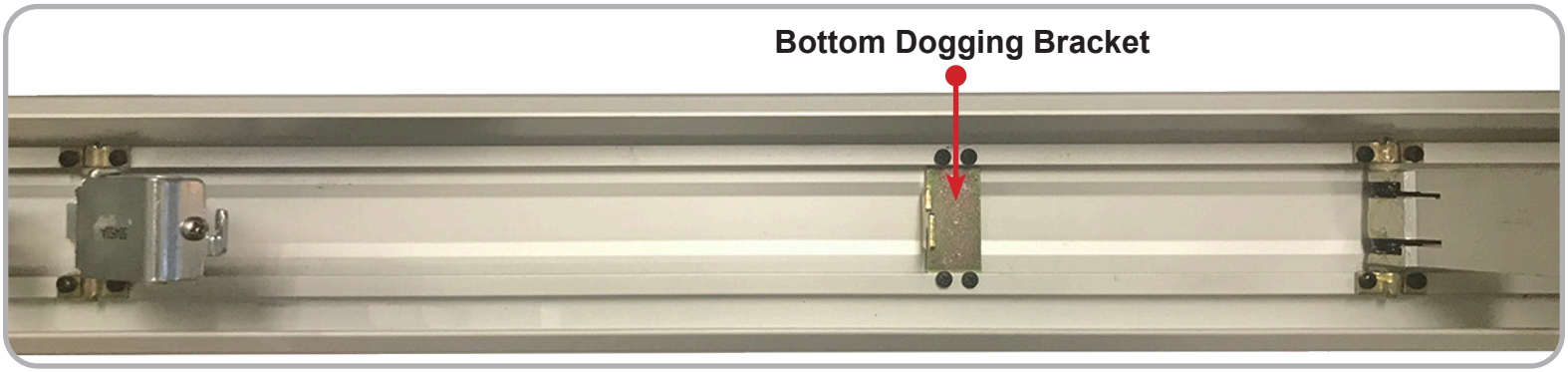




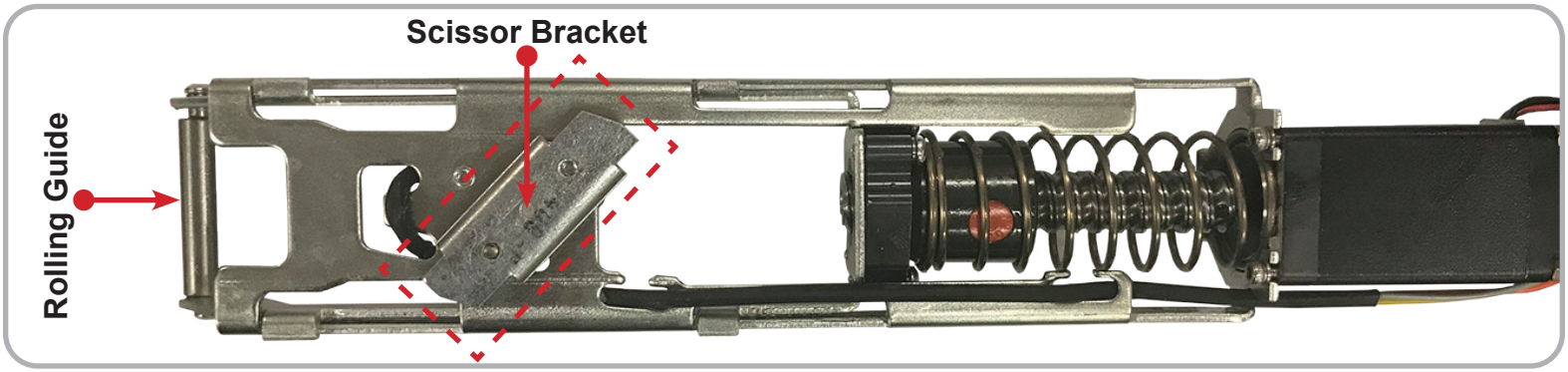
10 Once snapped in place, tighten the **Top Screw** to secure the **Bracket** in position.



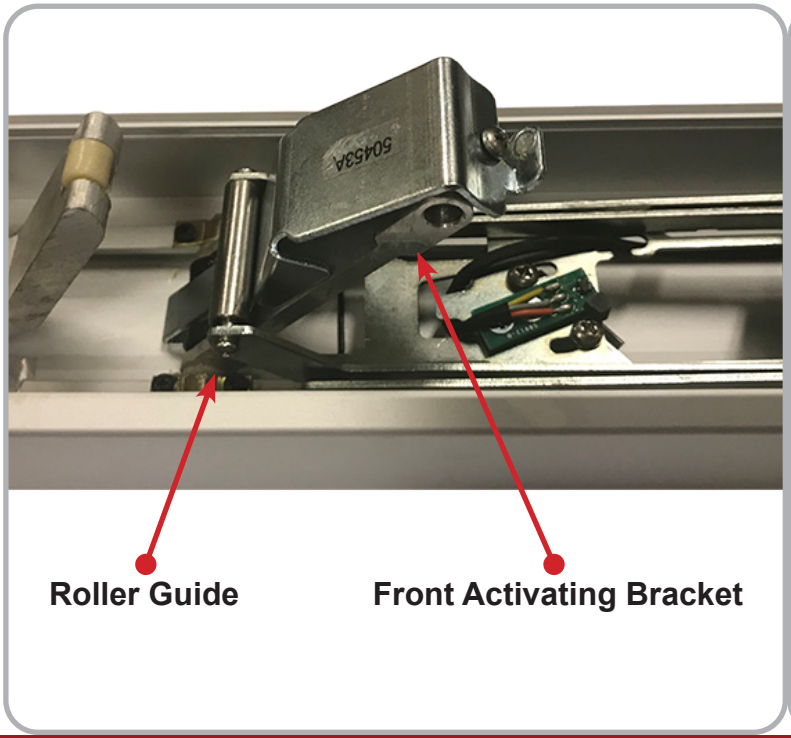
11 Remove the four screws from the **Bottom Dogging Bracket**, keep the **Bracket** in place.

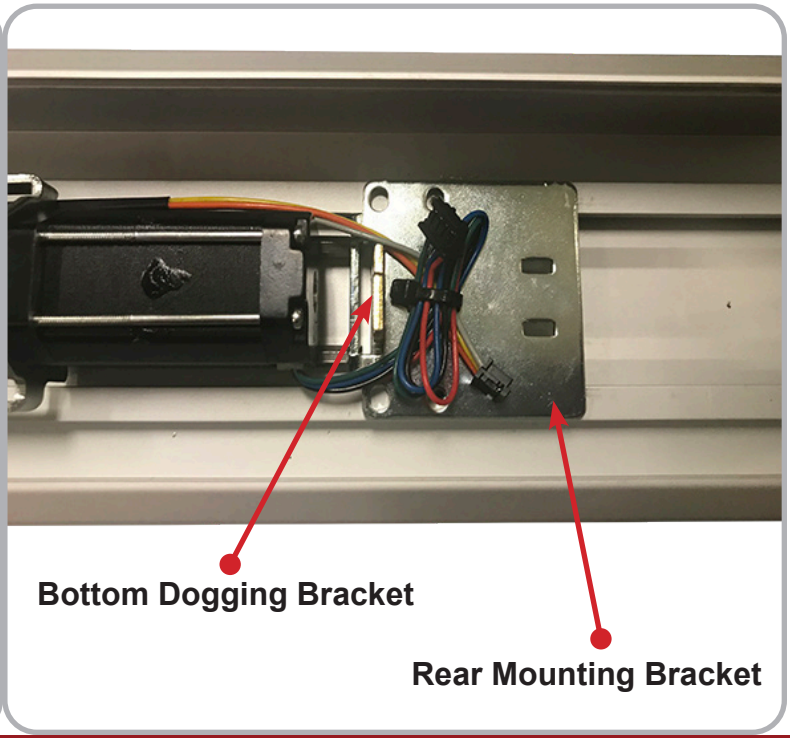


12 Flip MLRK1 over and angle the **Scissor Bracket** to match the position shown below.



13 To install the MLRK1, slide the **Rolling Guide** over the **Front Activating Bracket.** Then place the **Rear Mounting Bracket** over the **Bottom Dogging Bracket** as shown below.



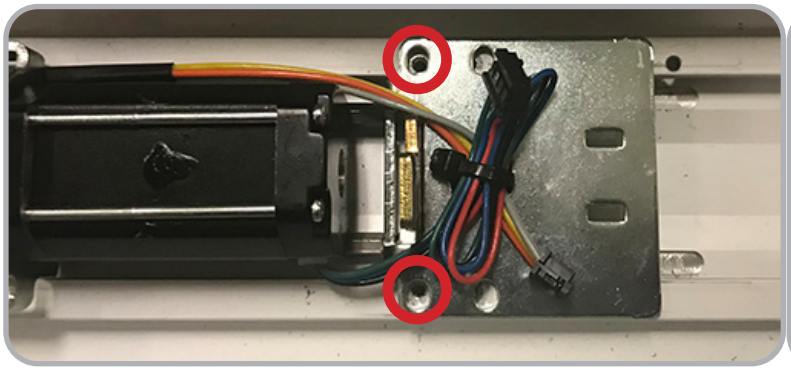


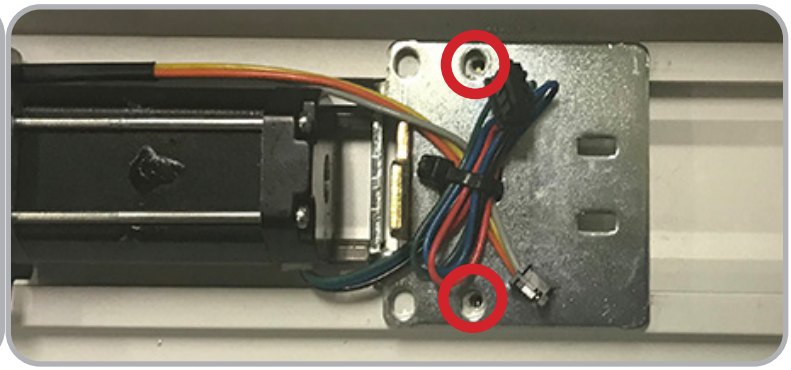
14 If you are installing the MLRK1 into a Jackson series device:

- Use the **Front** screw hole locations on the **Rear Mounting Bracket** and align with the front holes on the Base Rail.

If you are installing the MLRK1 into a Kawneer or AHT series device:

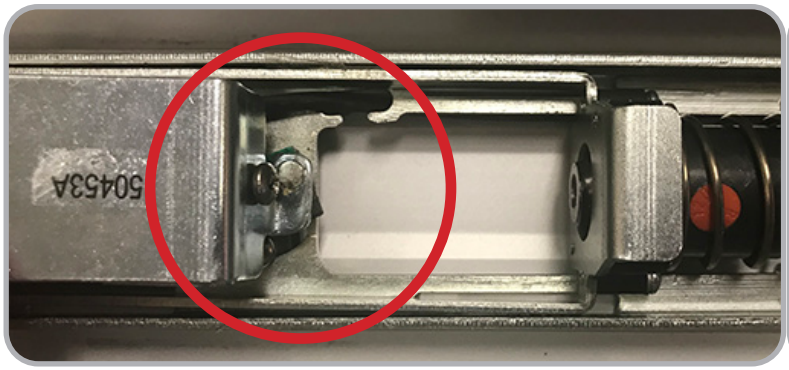
- Use the **Back** screw hole locations on the **Rear Mounting Bracket** and align with the back holes on the Base Rail.



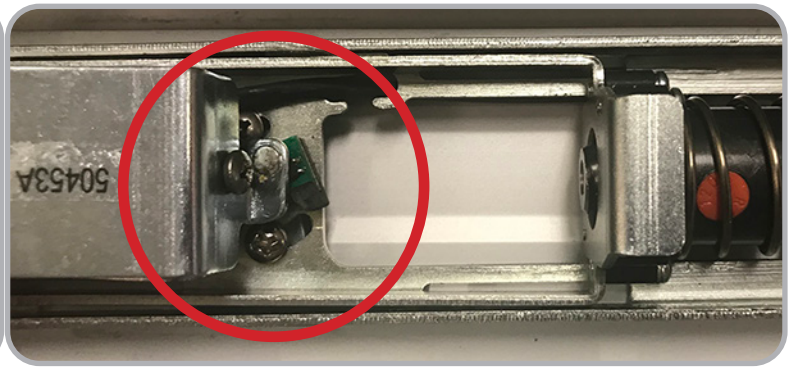


To verify you have used the correct hole locations, temporarily install the two provided screws into the **Rear Mounting Bracket**. Then press down the **Front Activating Bracket** and comprae how it lines up with the **Green Sensor Board** to the pictures shown below.

CORRECT

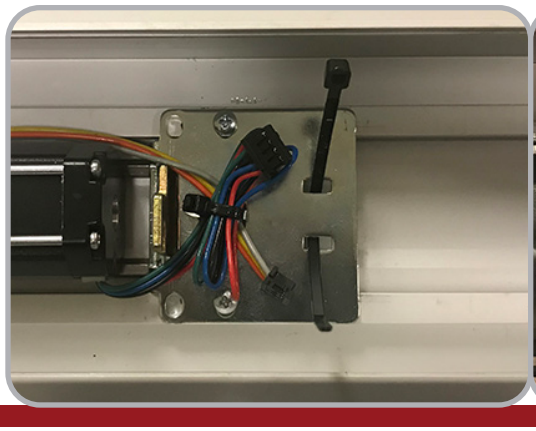


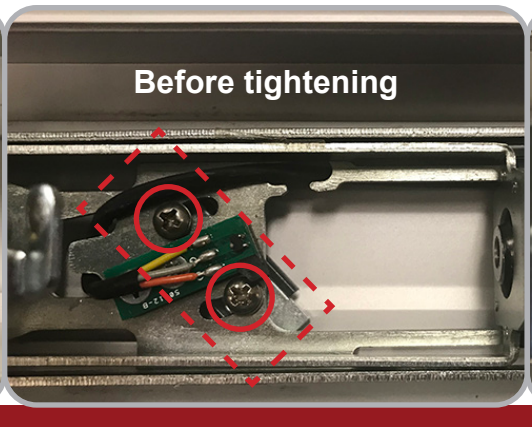
INCORRECT

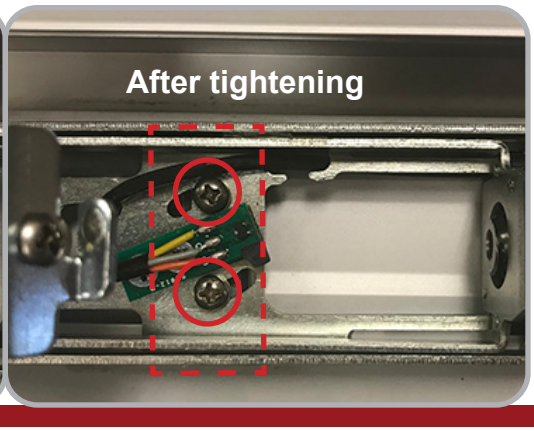


15 After verifying the correct screw hole location, add the provided **Cable Tie** to the **Rear Mounting Bracket** as shown and tighten the back two screws.

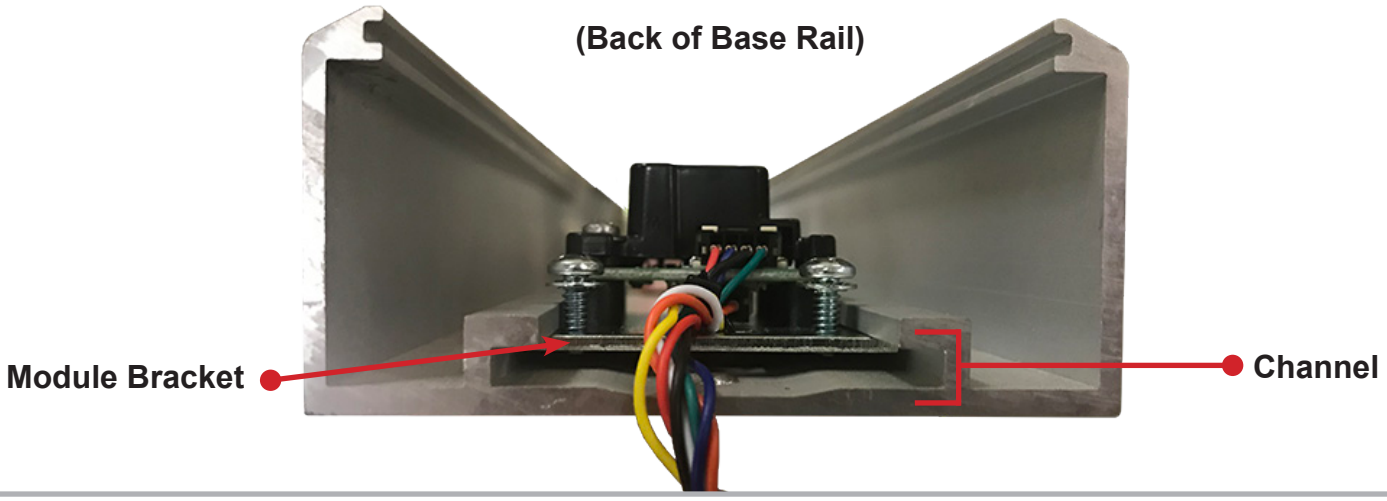
Then ensure the **Screws** holding down the **Scissor Bracket** are still angled correctly and the MLRK1 is sitting flush against the **Base Rail**. Once the MLRK1 is in place, rotate the **Scissor Bracket** until its **Screws** stop against the cut outouts as shown, then tighten the **Screws**.



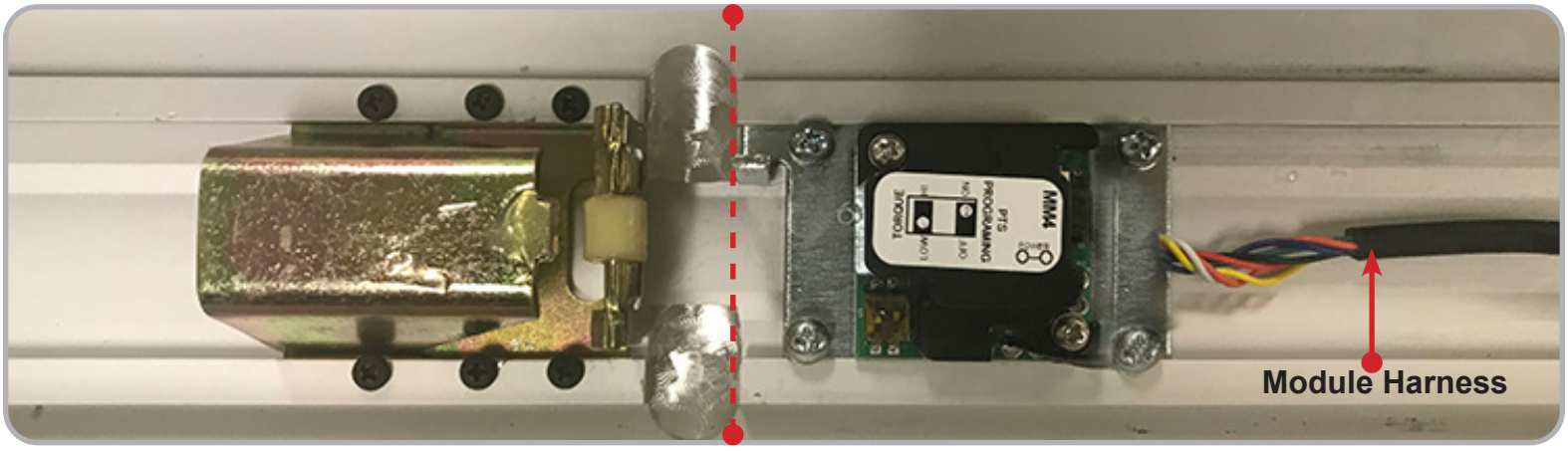




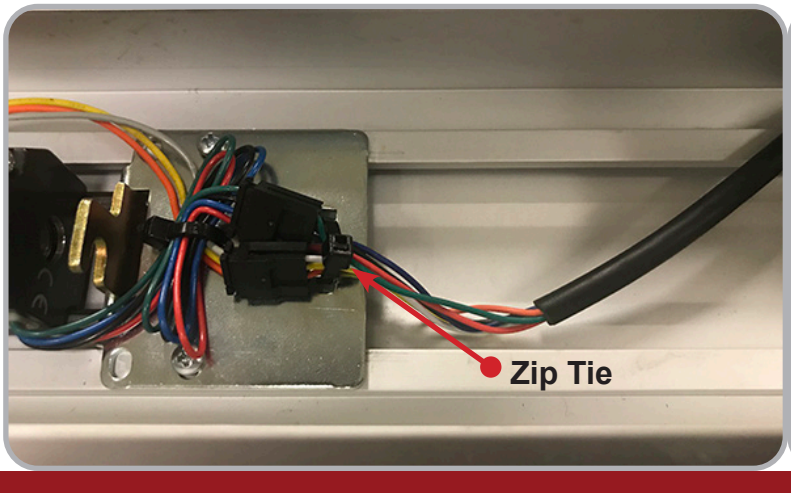
16 Next, slide the **Module Bracket** into the **Channel** at the bottom of the **Base Rail**.

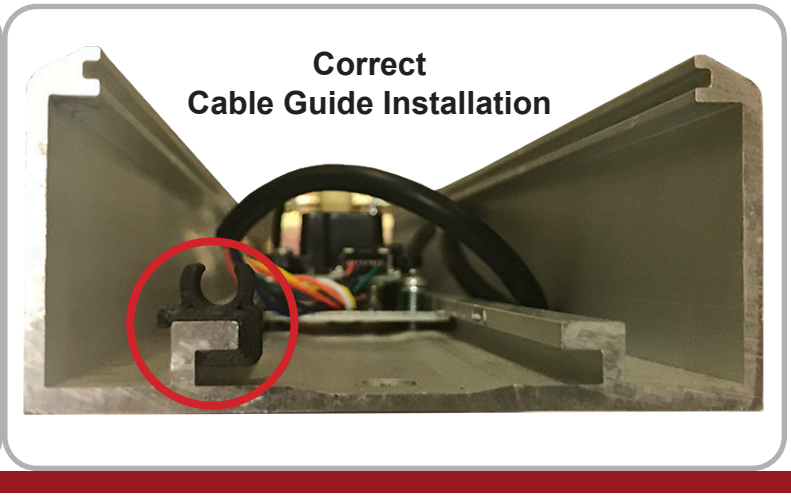


17 Line up the edge of the **Module Bracket** to the machining mark on the **Base Rail**, then tighten all four screws. (The **Module Harness** should be running out the back of the **Base Rail**)

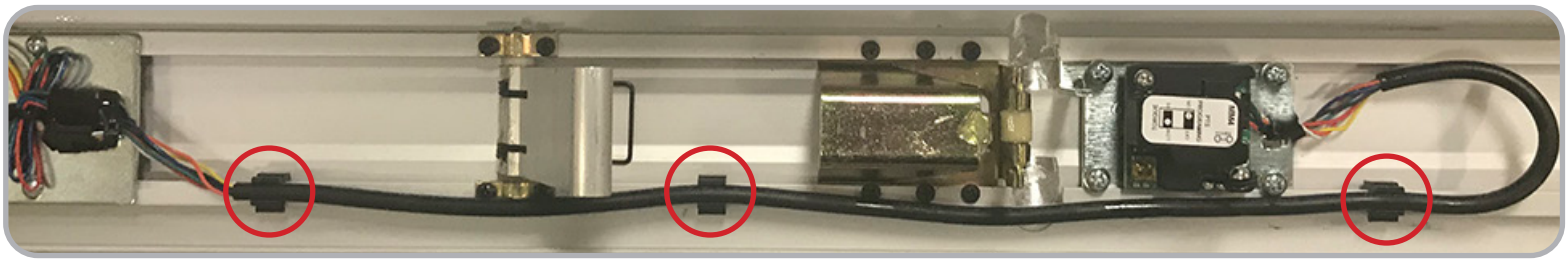


18 Plug the other end of the **Module Wiring Harness** into the the MLRK1 and secure it with the **Zip Tie**. You will use the three provided **Cable Guides** to finish installing the **Module Wiring Harness**, which will be installed on the **Channel** as shown below.



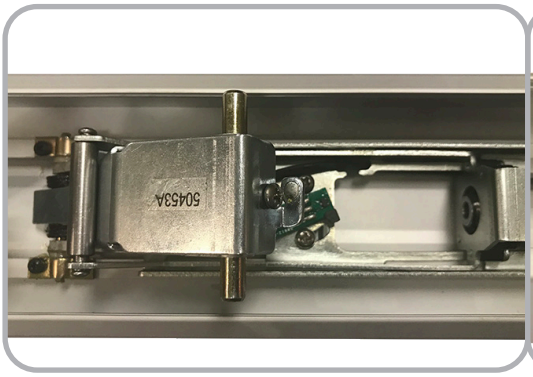


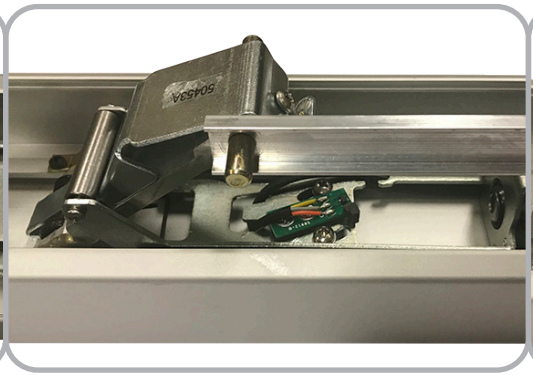
16 Install the **Cable Guides** as shown, then press the **Module Wiring Harness** into them.

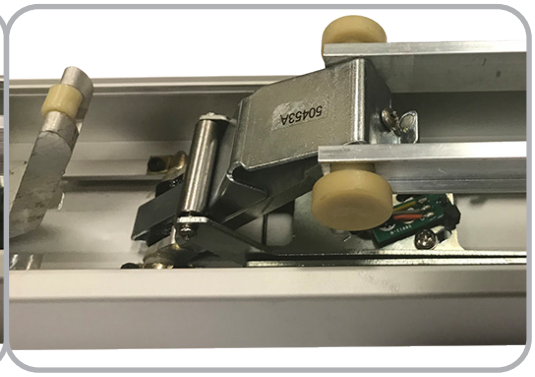


17 Reassmble the **Front** and **Back Activating Brackets** by:

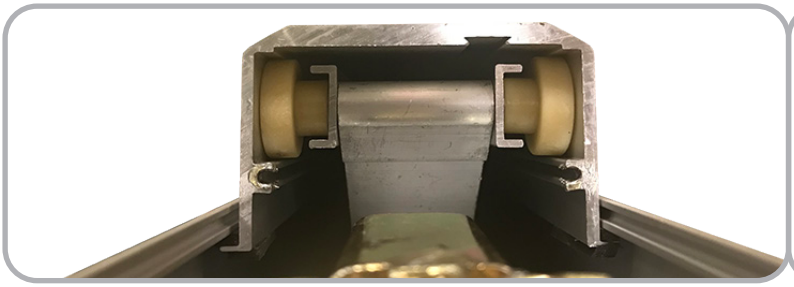
- First sliding the **Rolls Pins** into the brackets
- Then placing the two **Connecting Rods** on the **Roll Pins** as shown
- Finally slide on the **Thin Clear Washers** and **Guides** to complete the assembly

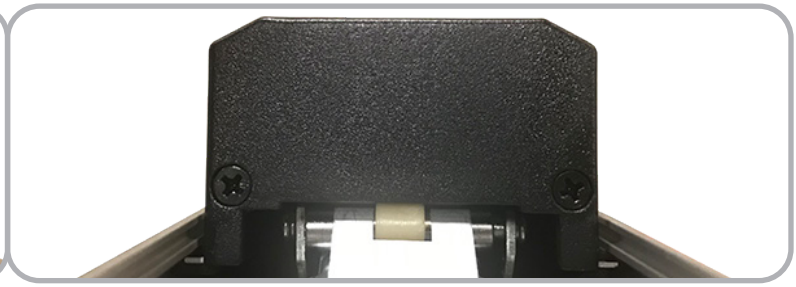




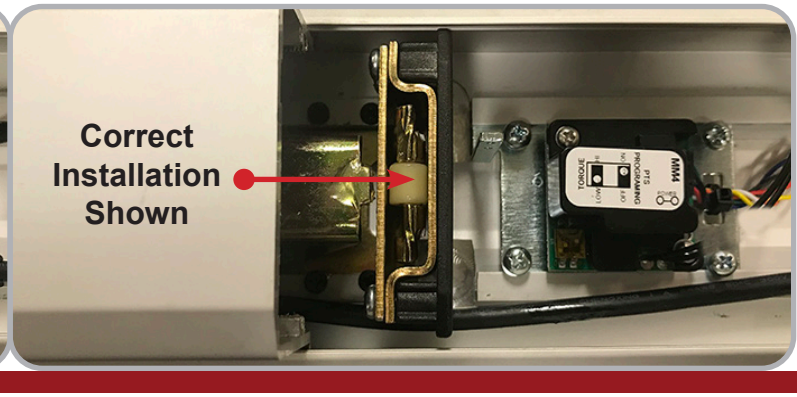


18 Reinstall the **Push Pad**, making sure the **Activating Bracket Guides** sit in their correct channel. Then install the **Front End Cap** and its two screws.

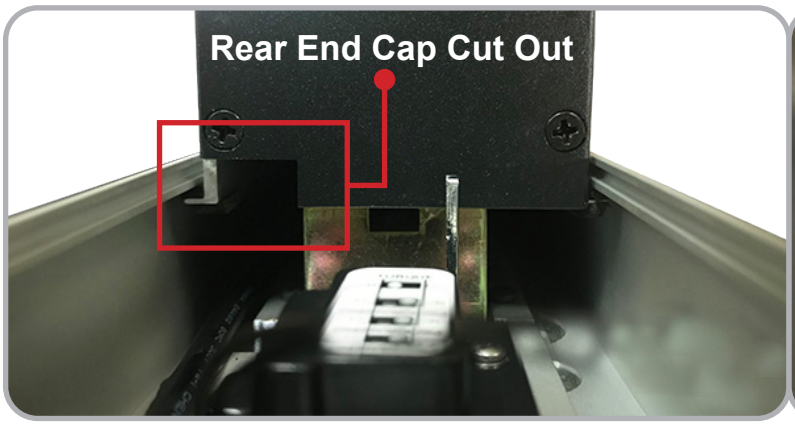


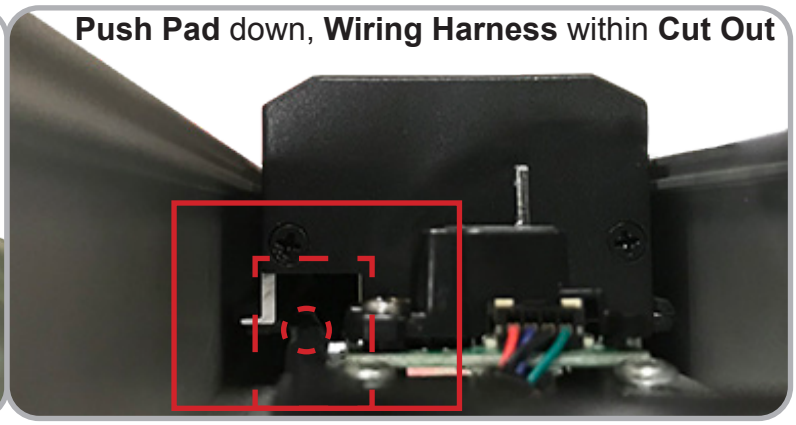


19 ***IMPORTANT*** When reinstalling the **Rear End Cap**, make sure that it is riding on the **Push Pad Guide**.

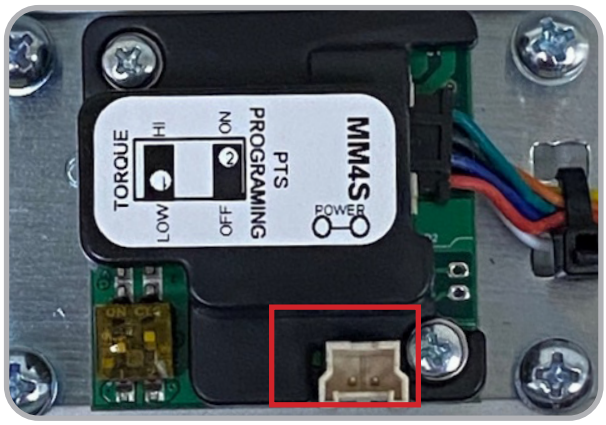


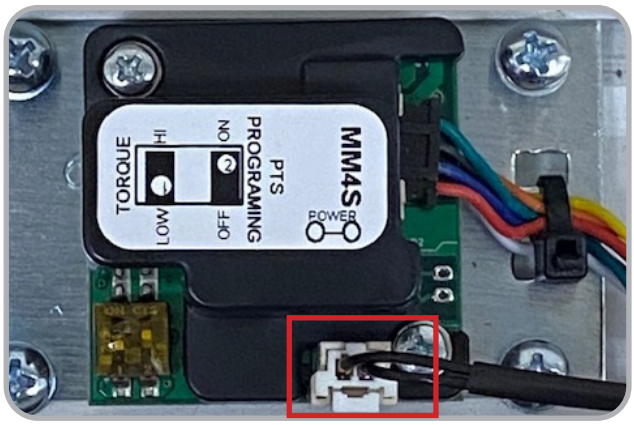
20 ***IMPORTANT*** After reinstalling the **Rear End Cap** and its two screws, double check to make sure the **Module Wiring Harness** is in the **Cut Out** and not being hit by the **Rear End Cap**.





21 Install Molex Pigtail & hook up to power. Set the "**Push to Set Adjustment**" following the steps below, remembering to turn the Programming Switch to the **off position when completed**.





MAKE SURE TO SET PTS BEFORE FINISHING INSTALLATION

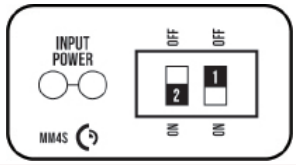
STEP 1 - Select your preferred torque mode (ships in standard torque). Press the device push pad to the desired setting. (We recommend to fully depress and release 5%, giving the device room for changing door conditions.)

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



SPECIFICATIONS FOR OPTIONAL REX:

- Single Pole - Double Throw (SPDT)
- Rating: 0.5A @24VAC
- Configuration: Green - Common (C)
  Blue - Normally Open (NO)
  Gray - Normally Closed (NC)