

## Sliding WCL door rework

### Description:

This procedure outlines the steps to rework the sliding WCL door used on some of the MY18 J4500 units. This rework is necessary to ensure reliable operation of the sliding door.

### **WARNING**

*Read this entire procedure before beginning work.*

*Use Safe Shop Practices at All Times.*

*To avoid personal injury:*

- a. Proper Personal Protective Equipment (PPE) must be worn. Safety glasses and protective gloves are required for working with DEF Fluid.*
- b. Turn the main battery disconnect switch to the OFF position.*
- c. Ensure that both the front and the rear wheels are chocked.*
- d. Positioning the ENGINE RUN and ENGINE START switches on the engine compartment remote control box to the OFF position.*
- e. Allow enough time for components to cool down prior to working in the engine compartment.*

**1.0 Material requirements:**

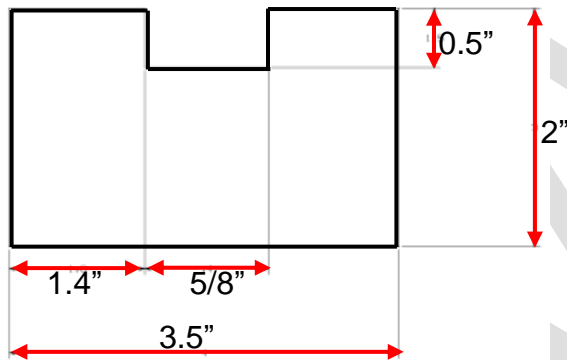
ITEM	PART NO	QTY	U/M	DESCRIPTION
1	03-31-4619	1	EA	ARM - MID, HINGE, WCL SLDG DR
2	19-05-0325	1	EA	BUSHING-BRONZE, .38 X 1.25 LG
3	19-05-0354pk	1	EA	FASTENER-RATCHET TYPE
4	23-03-0077	1	EA	TAPE-BUTYL, 2-SIDED, 1"WIDE x 3/32"THICK
5	3L-31-2084	1	EA	BEARING-CAM, .75 DIA x 1.38
6	3L-31-2289	2	EA	BEARING-CAM, .56 DIA, .31-18UNC
7	19-04-0288	29	EA	FASTENER-RATCHET, PSH IN .281 DIA

**2.0 Special Tools:**

Flat file tool

Loctite 262 (MCI P/N: 21-7212-26)

4" x 4" Wooden block with channel



**3.0 Middle arm rework**

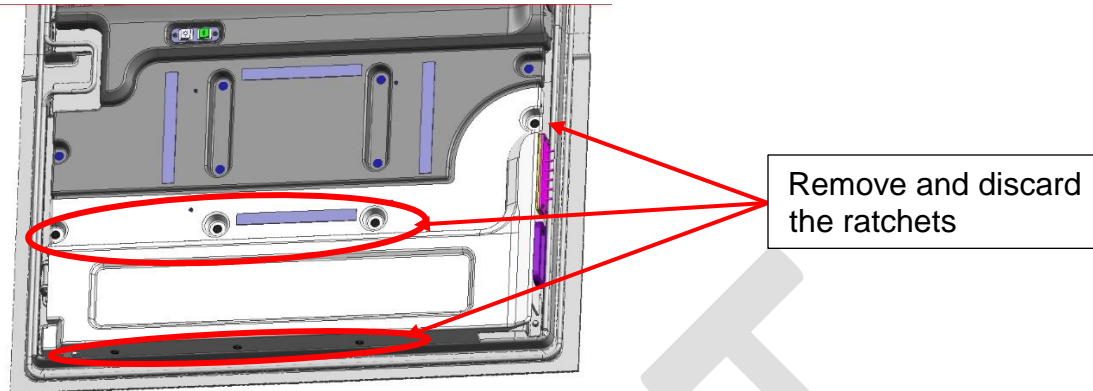
Remove and discard the 3 ratchets securing the wall panel to the sliding door. Save the wall panel.



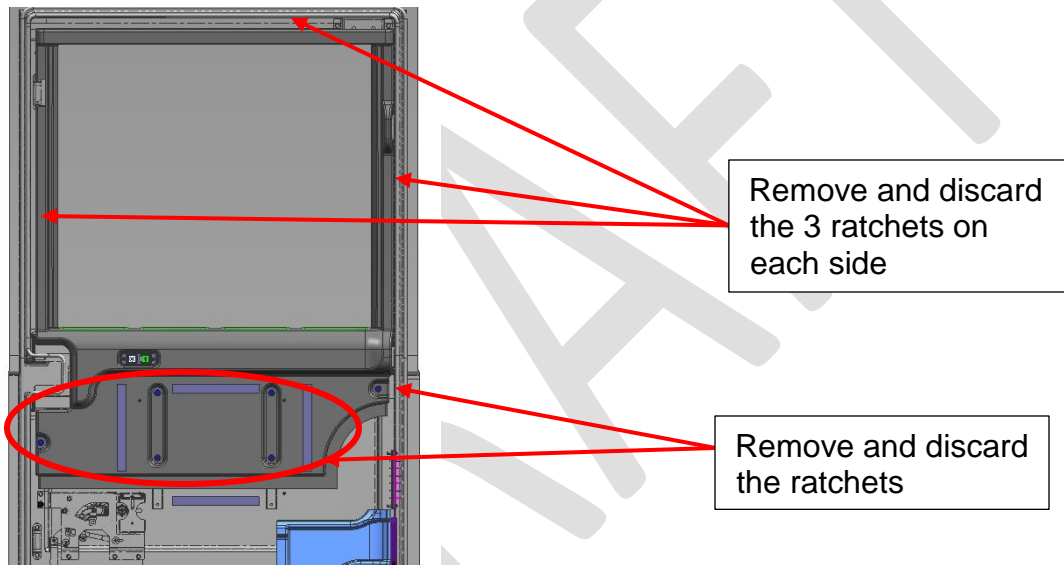
Ratchets

Wall panel

Remove and discard the 7 ratchets securing the heat duct panel. Save the heat duct panel.



Remove and discard the 15 ratchets securing the interior panel. Save the interior panel.



Open the door to where the middle arm is just on the straight area of the track.



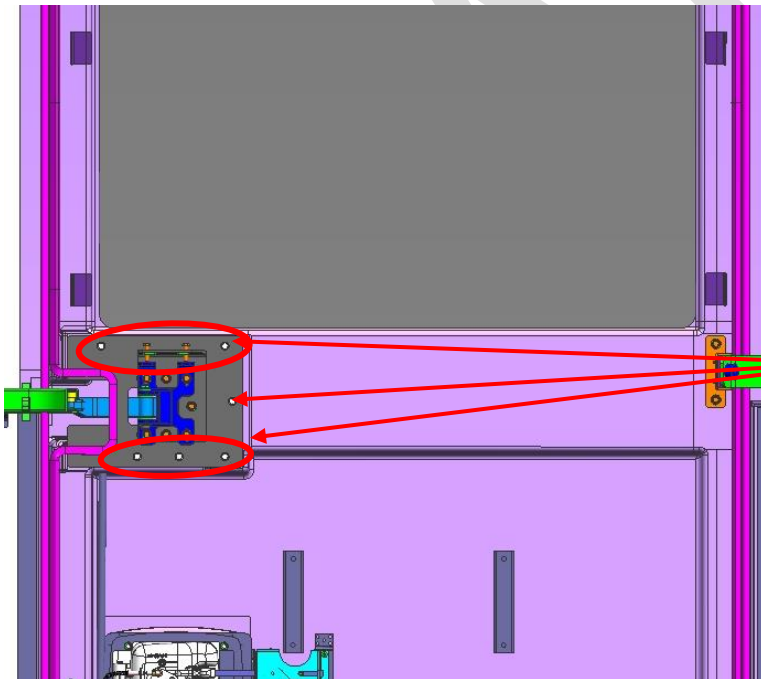
Arm on the straight area of the track

Support the door with the WCL, using a block of wood with a channel cut for the door. Use the manual operation of the lift to make contact with the door.



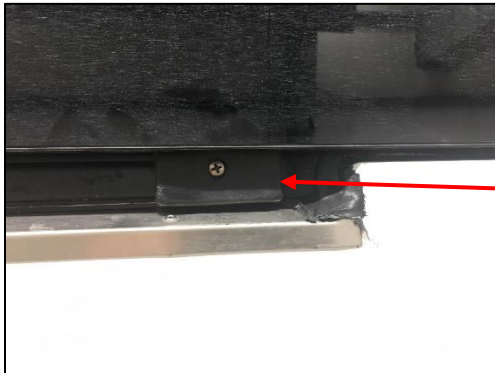
Wooden block with channel for the door

Remove and save the 6 bolts securing the middle hinge to the sliding door.



Remove and save the bolts

Remove and save the screw securing the rubber bumper at the end of the track. Save the rubber bumper

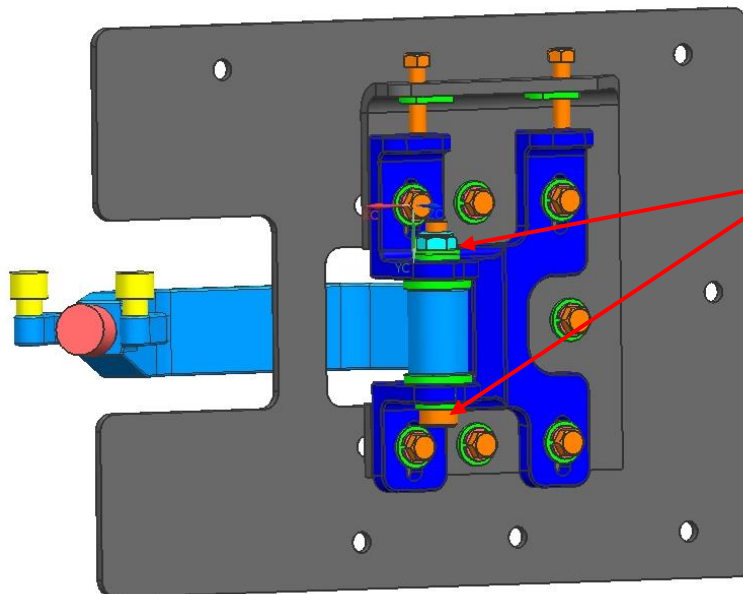


Remove and save the screw,

Slide the middle hinge to the end of the track and separate it from the coach.

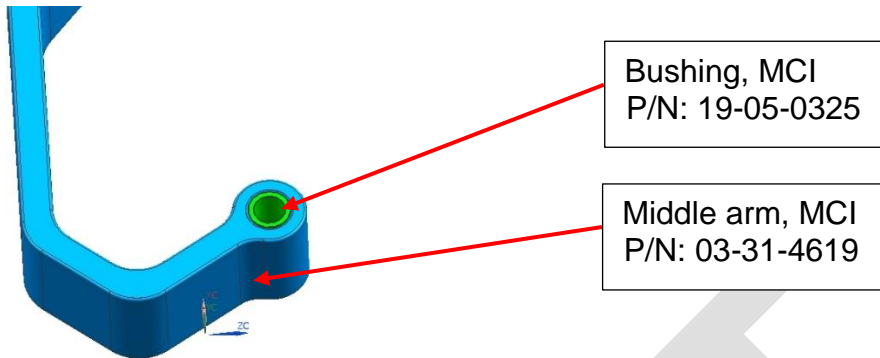


Remove and save the nut and bolt securing the arm to the middle hinge. Discard the arm from the middle hinge.

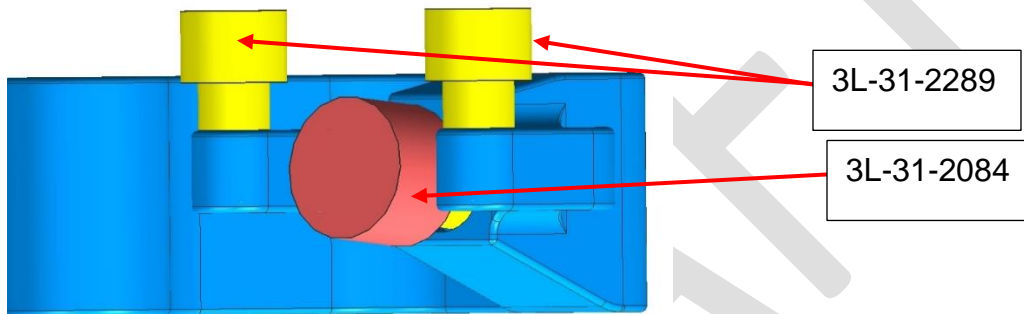


Remove and save the bolt, nut

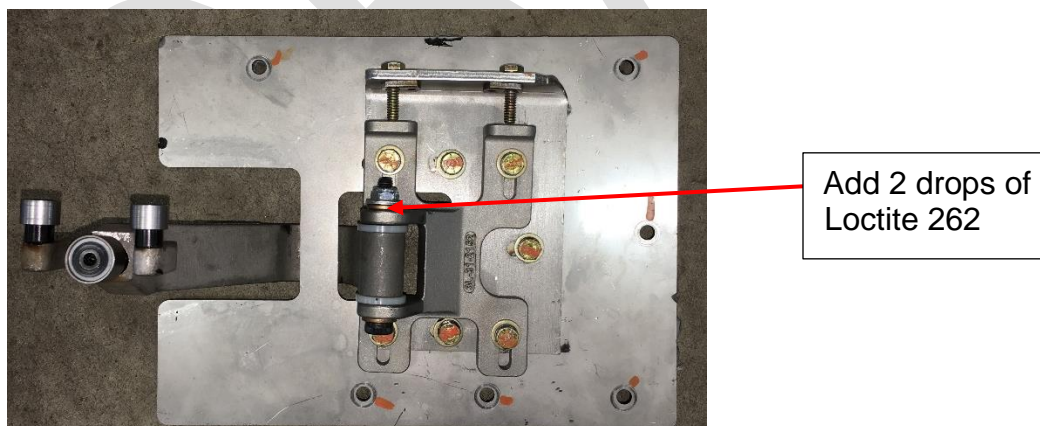
Insert the bushing, MCI P/N: 19-05-0325, into the middle hinge arm, MCI P/N: 03-31-4619, as shown below.



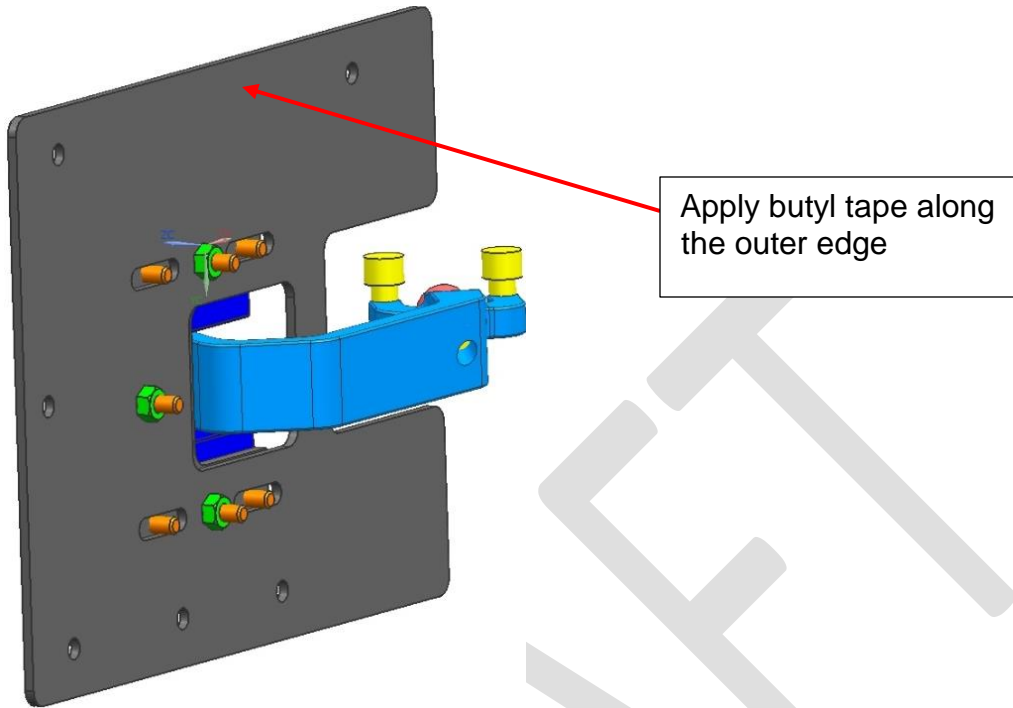
Install new bearings 3L-31-2084 and 3L-31-2289 as shown below to the arm and torque them to 30 In-Lbs.



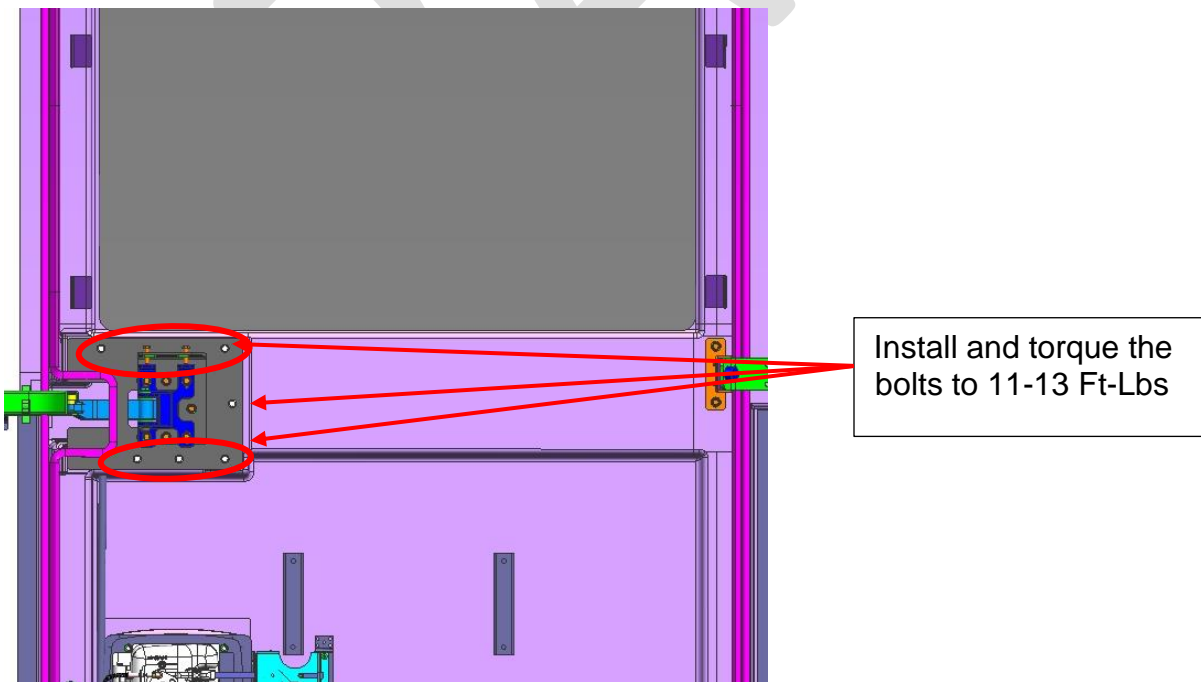
Add two drops of Loctite 262, MCI P/N: 21-7212-26, to the bolt and install the new arm to the middle hinge. Torque the nut to 11 ft-Lbs.



Apply butyl tape, MCI P/N: 23-03-0077, on the back of the middle hinge where it meets the sliding door.

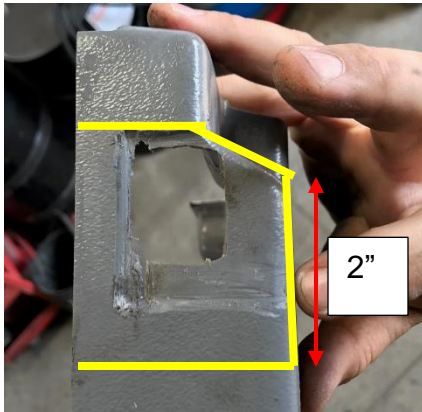


Slide back the middle hinge with new arm through the track and install the middle hinge to the sliding door using existing hardware. Torque the bolts to 11-13 Ft-Lbs.



### 4.0 Heat duct panel rework

Mark the panel as shown below using masking tape.

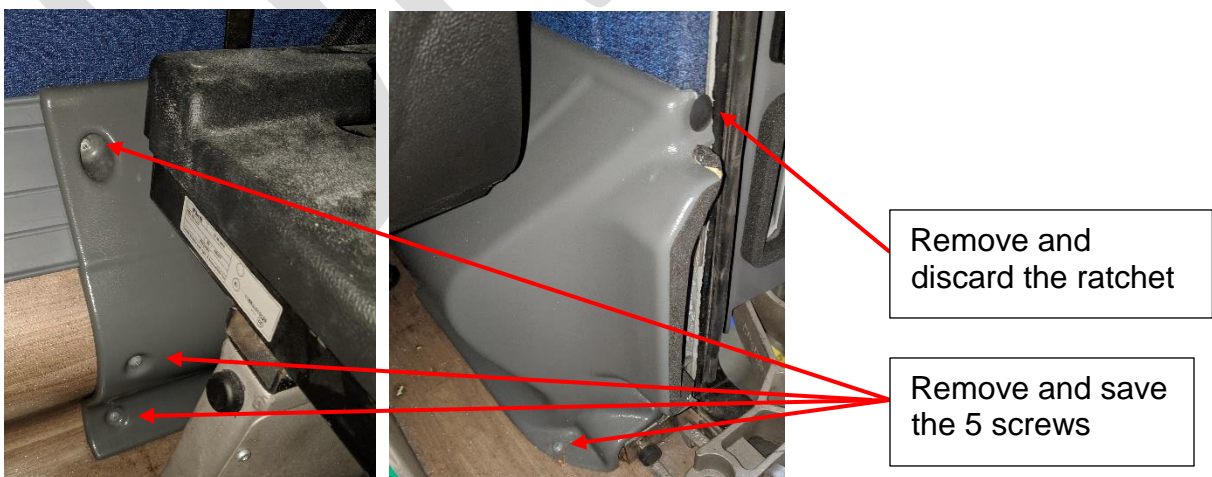


Trim the marked area.



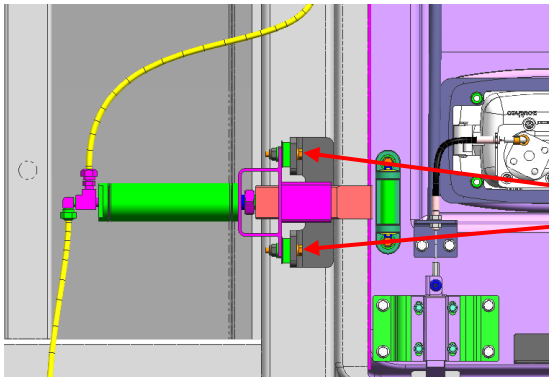
### 5.0 Upper and lower latch rework

Remove the 4 screws and the ratchet securing the hinge cover. Save the screws and discard the ratchet. Remove and save the hinge cover.



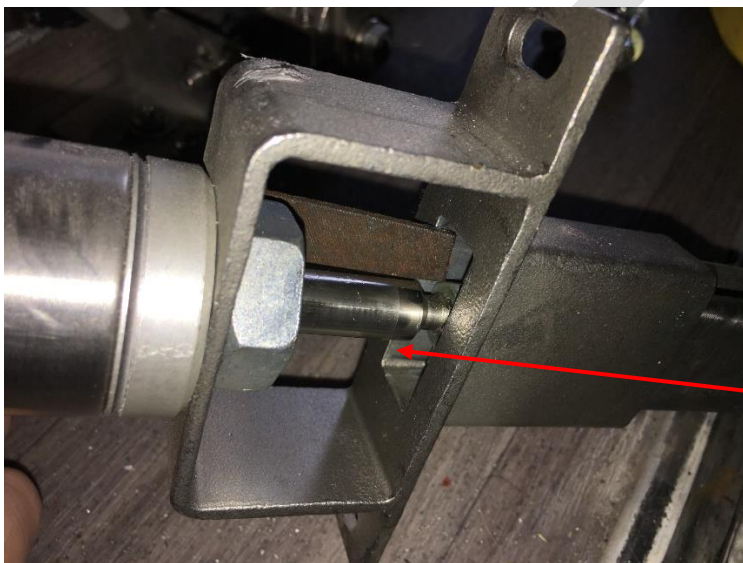


Remove and save the two nuts, bolts on the cylinder bracket. Save the shims, if any present.



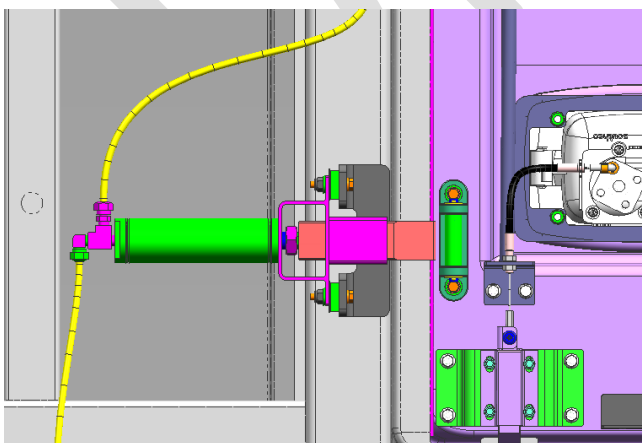
Remove and save the nuts, bolts

Using a flat file tool, file the rugged inside edge of the cylinder bracket as shown below.

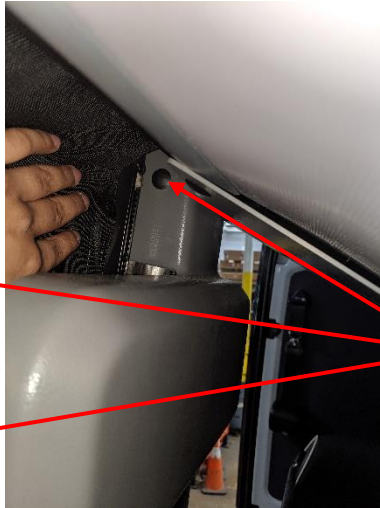


File the edge

Install the cylinder bracket using the existing hardware.

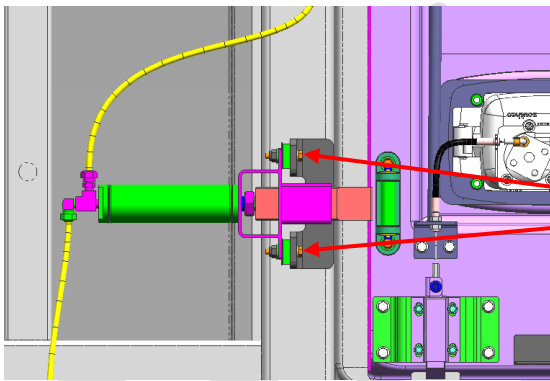


Remove and discard the 3 ratchets holding the post cap. Save the post cap.



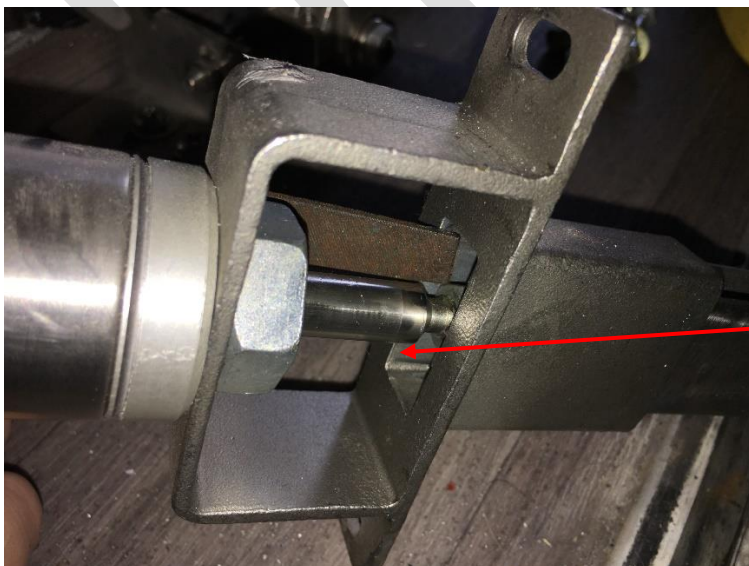
Remove and save the ratchets

Remove and save the two nuts, bolts on the cylinder bracket. Save the shims, if any present.



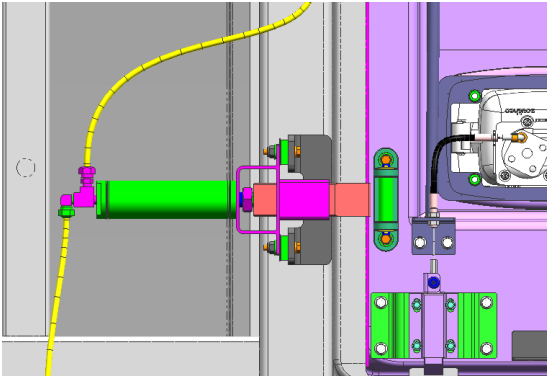
Remove and save the nuts, bolts

Using a flat file tool, file the rugged inside edge of the cylinder bracket as shown below.



File the edge

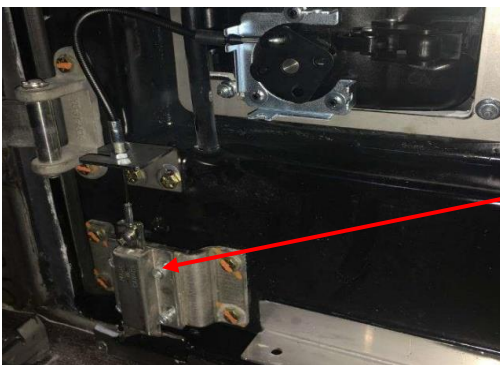
Install the cylinder bracket using the existing hardware.



## 6.0 Other checks

### 6.1 Lubrication of the secondary latch

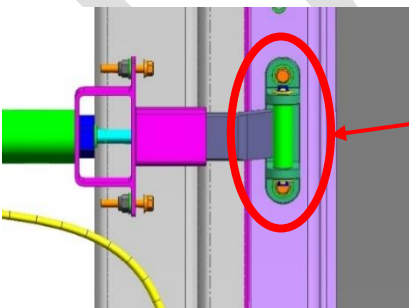
Lubricate the secondary latch including the contact between the latch and striker.



Lubricate the secondary latch

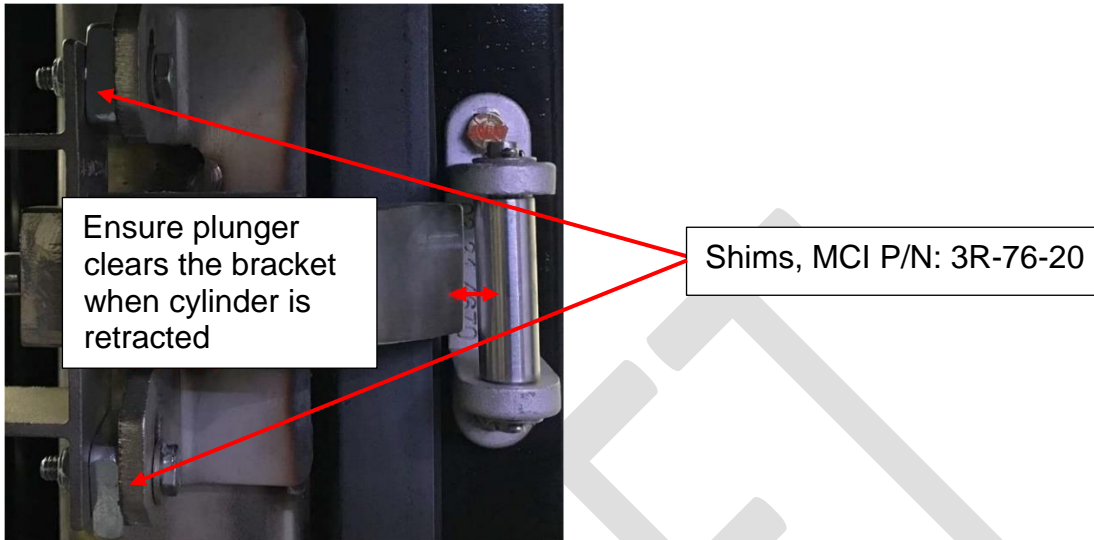
### 6.2 Upper latch clearance

Check if the upper latch is clear of the bracket when cylinder is retracted.



No gap between bracket and latch

If no visible gap is observed install shims, MCI P/N: 3R-76-20, as required between the bracket and the latch to achieve clearance between the bracket, plunger when cylinder is retracted.

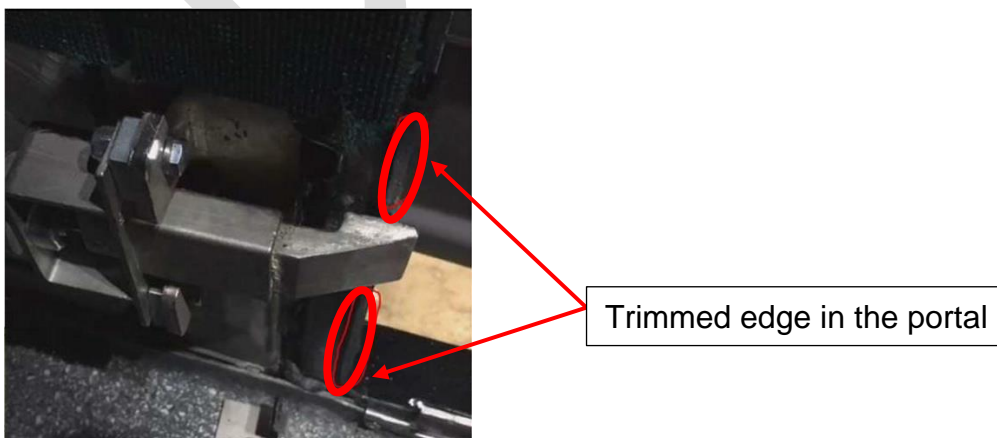


### 6.3 Lower latch clearance

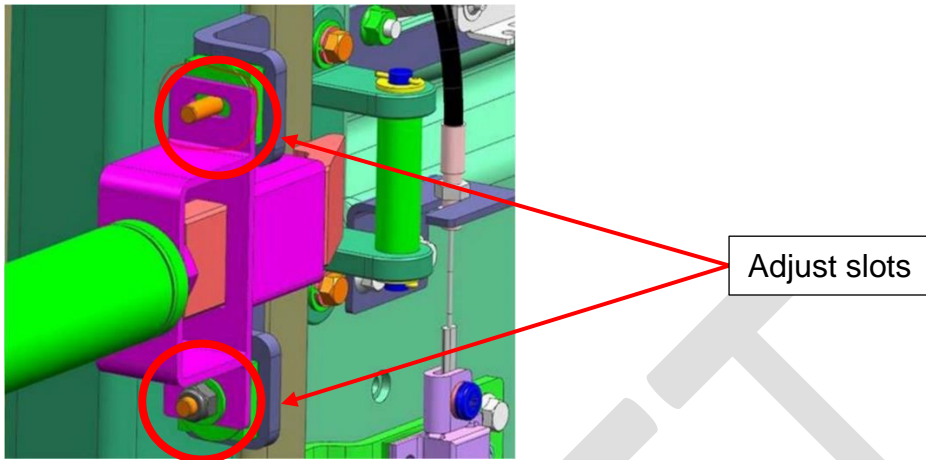
If the door is not opening, check if lower latch is angled in and is contacting the portal.



If the lower latch is found angled in, look for the trimmed edge in the portal.

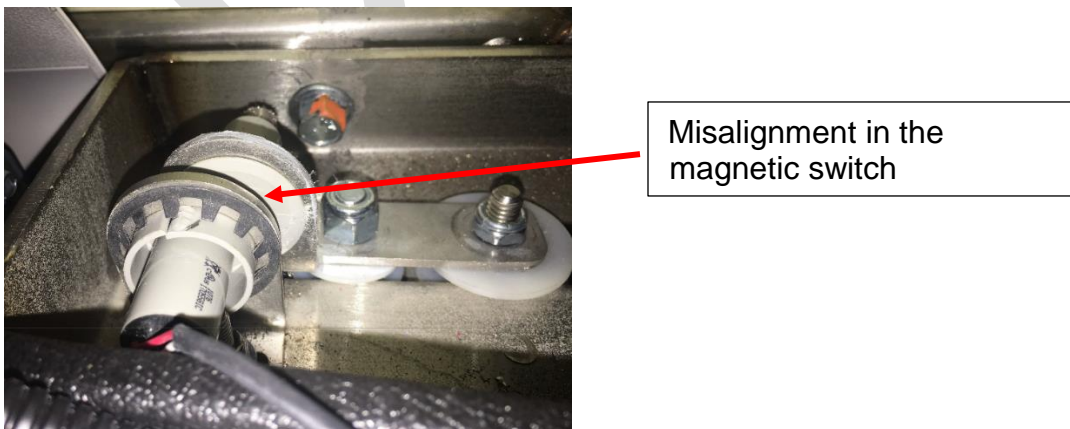
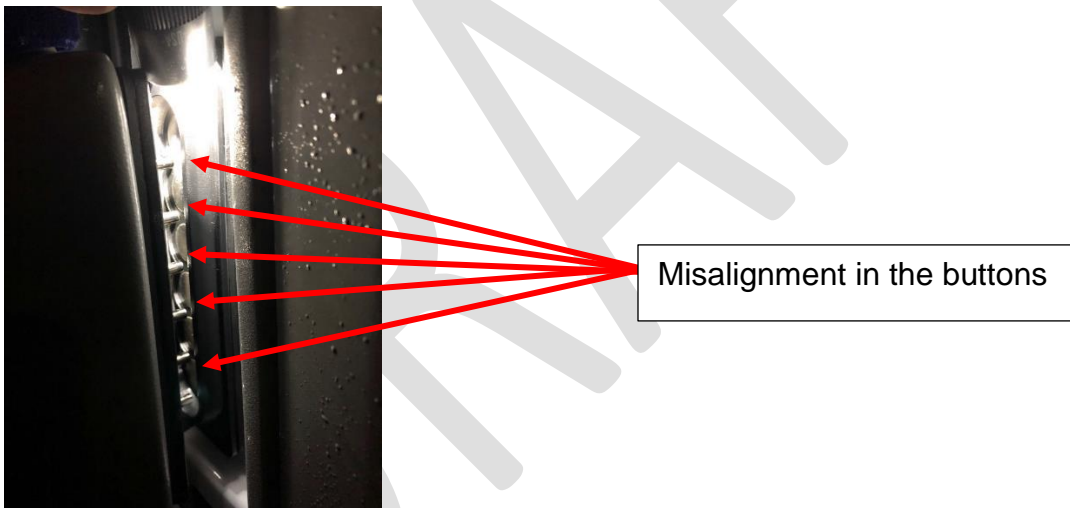


If the lower latch is angled in and no trim is observed in the portal, adjust the slots to clear portal at lower latch.



**6.4 Door jamb switch alignment**

If the door sensors are not responding even though door is opening, check for contact point on door jamb switches and alignment of the magnetic switches at the upper track.



If the buttons are observed to not contact at the center, use lithium grease to mark the contact points and adjust the door jamb by trimming the panel and re-mount the contact button assembly.

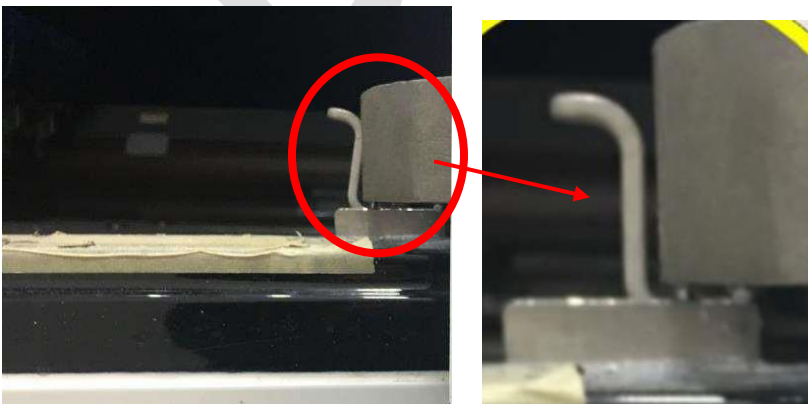


If the magnetic switches are observed to be misaligned, align the switches in such a way that magnetic faces of the switch and fixed magnet on the upper track are in contact with each other.

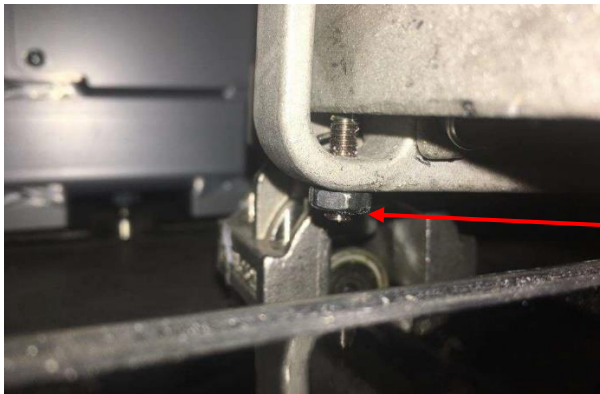


### **6.5 Clearance on door open hold latch**

If the door is not fully open because of a negative lift clearance check for door open hold latch for engagement.



Adjust the latch using the locknut. The locknut must be in place and tightened to prevent the adjustment backing off



Locknut

If the latch is adjusted down too far it will not ramp up the catch ramp.

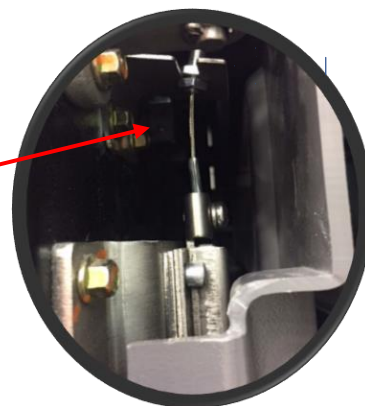


Catch ramp

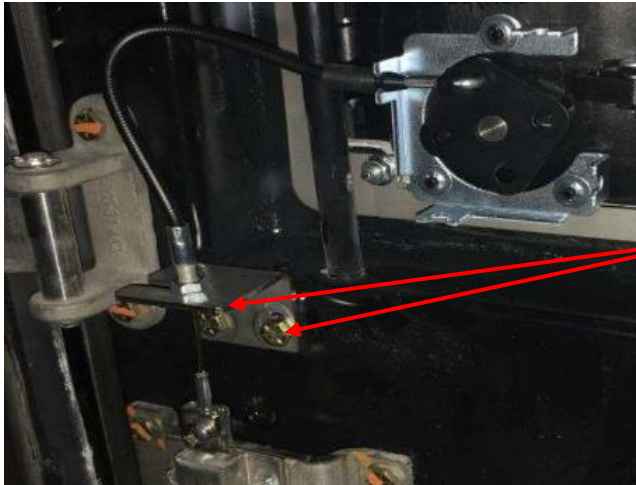
Latch

### 6.6 Secondary lock alignment

If door is not opening, check the secondary lock for its alignment behind the inside cover.

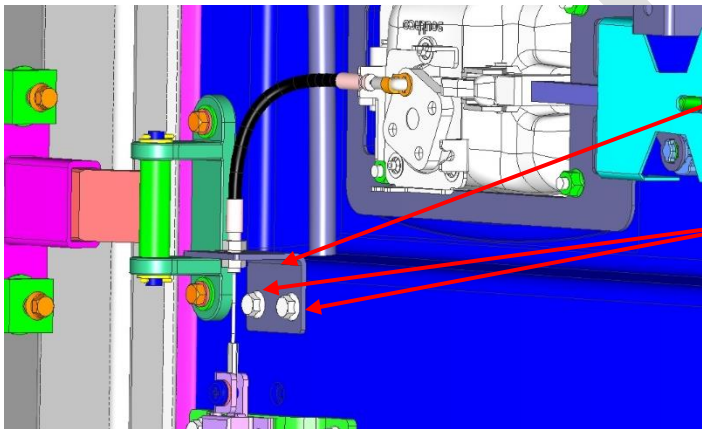


If deflection is observed in the bracket, remove and save the bolts mounting the bracket.



Remove and save the bolts

Install a new bracket, MCI P/N: 03-32-2658, in the same location using the existing hardware and torque them to 11-13 Ft-Lbs.



New bracket, MCI P/N: 03-32-2658

Torque the bolts to 11-13 Ft-Lbs

### 7.0 Install the panels

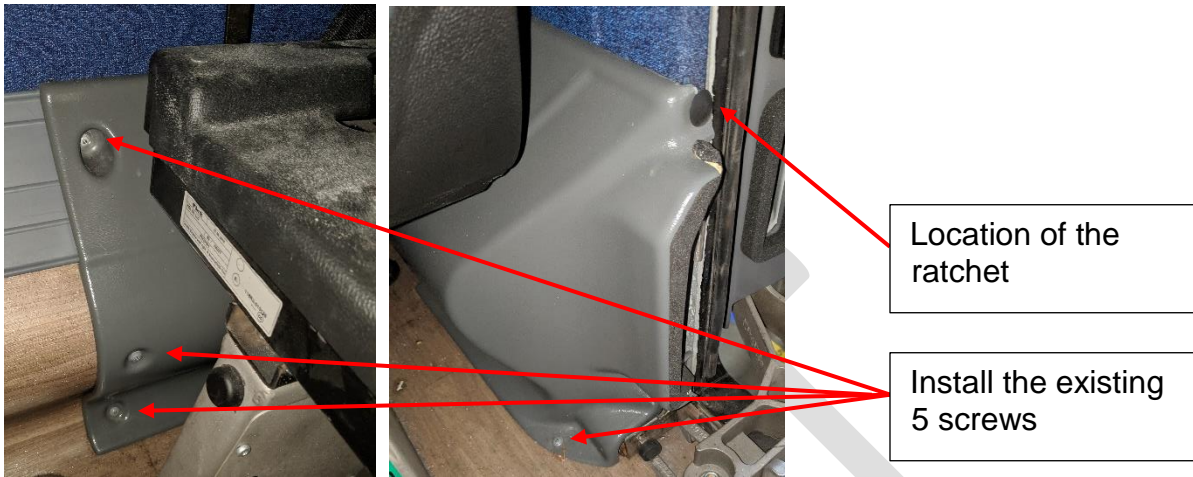
Install the post cap using 3 ratchets, MCI P/N: 19-04-0288.



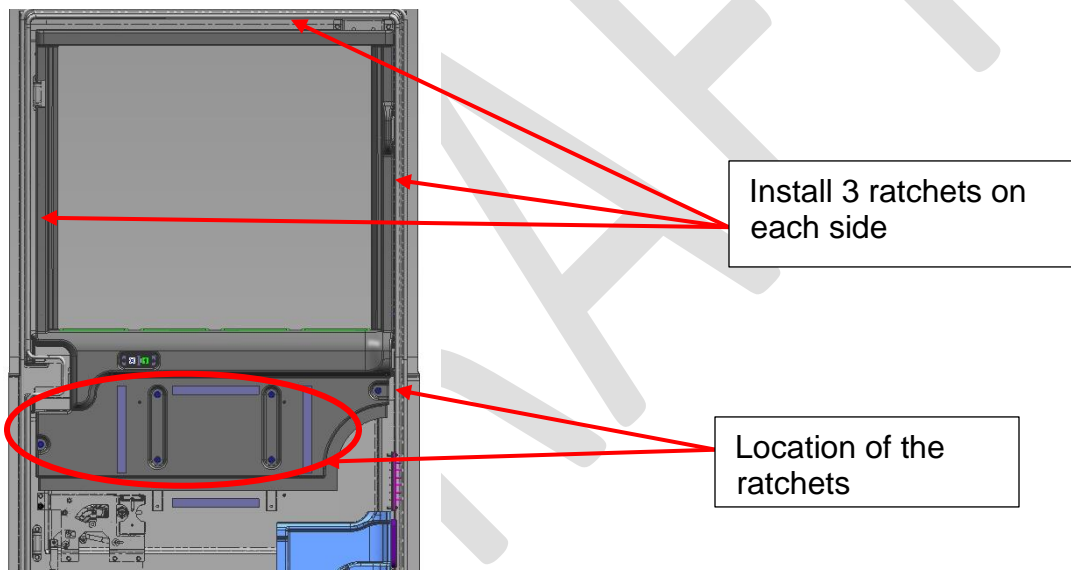
Location of the ratchets



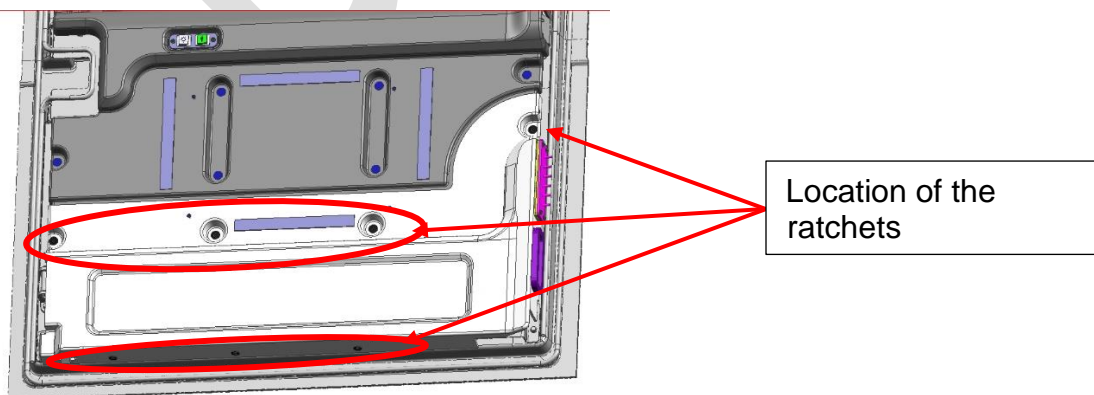
Install the hinge cover using the existing 5 screws and a new ratchet, MCI P/N: 19-04-0288.



Install the interior panel to the sliding door using 15 ratchets, MCI P/N: 19-04-0288.



Install the heat duct panel to the sliding door using 7 ratchets, MCI P/N: 19-04-0288.



Install the wall panel to the sliding door using 3 ratchets, MCI P/N: 19-04-0288.



Ratchets

Wall panel

**End of the Procedure**

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