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First Release

07-26-2019

COMPRESSOR DOOR T-KEY LOCK LUBRICATION - LATCH PIN AND DOOR STOP INSPECTION

Prevost vehicles

DESCRIPTION

On the vehicles affected by this bulletin, the T-Key cylinder lock must be disassembled and lubricated, the latch pin inspected for damage and replaced as required. The upper and lower door stops must also be inspected if found broken or missing.

MODEL YEAR(S) AND VEHICLES INVOLVED

NOTICE TO SERVICE CENTERS		
Verify vehicle eligibility by checking warranty bulletin status with SAP or via ONLINE WARRANTY SYSTEM available on Service / Warranty tab of Prevost website.		
Model	VIN	Fleet Number
X3-45 Commuter Model Year : 2014 - 2016	The following individual vehicles: 2PCG33495EC735590, 2PCG33498EC735602 and From 4RKG33497F9737001 up to 4RKG33491G9737299 incl.	From 2490 up to 2789, incl.
This bulletin does not necessarily apply to all the above-mentioned vehicles, some vehicles may have been modified before delivery.		

MATERIAL NEEDED

Order the following parts:

Part No.	Description	Qty
685353	Torque seal - Tamper proof indicator	1
N/A	Rubber safe part cleaner (generic)	1
684916	Permatex #31832 High Performance Synthetic Grease	1

Other parts that may be required:

Part No.	Description	Qty
5002025	Upper Door Bumper	1
504339	Upper Bumper Rivet POP Dome SS OE 3.2	1
504454	Lower Door Bumper	1
502839	Lower Bumper Nut M6-1,0	1
2801055	Door Latch Pin	1

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PROCEDURE



DANGER

Park vehicle safely, apply parking brake, stop engine. Prior to working on the vehicle, set the ignition switch to the OFF position and trip the main circuit breakers equipped with a trip button. On Commuter type vehicles, set the battery master switch (master cut-out) to the OFF position.

Lock out & Tag out (LOTO) must be performed during set-up, maintenance or repair activities. Refer to your local procedure for detailed information regarding the control of hazardous energy.

1. Locate the cylinder lock cover & actuator rod inside the compressor door (Fig.1).

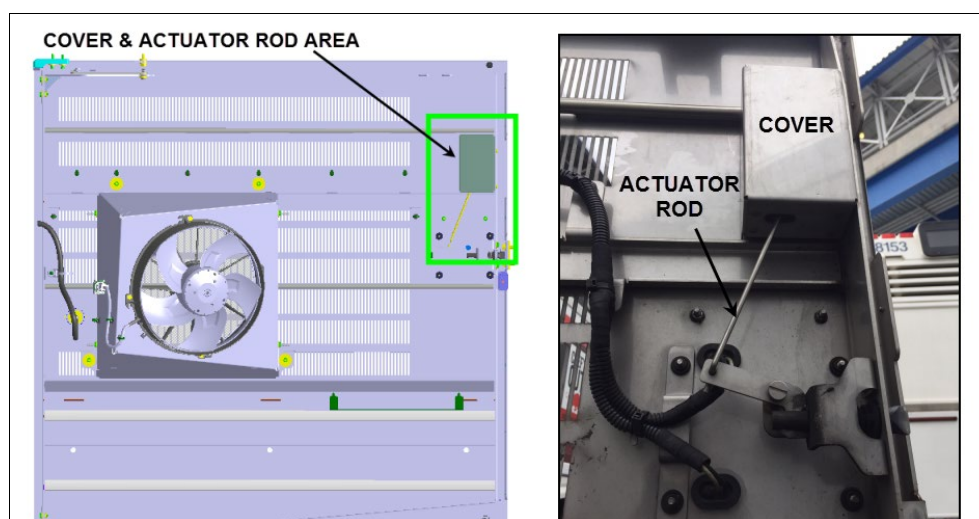


FIG.1 CYLINDER LOCK COVER & ACTUATOR ROD LOCATION

2. Remove the four Phillips head screws holding the cover on the side of the door frame and slide the cover down along the rod to move it out of the way (Fig.2).

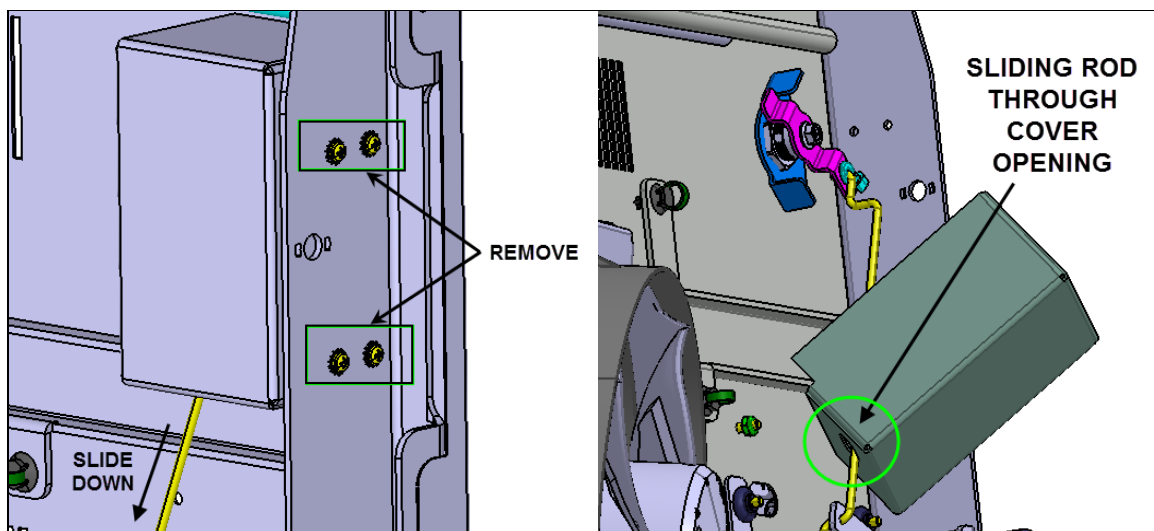


FIG.2 CYLINDER LOCK COVER REMOVAL

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3. Disengage the plastic locking clip to disconnect the actuator rod from the latch plate (Fig.3).

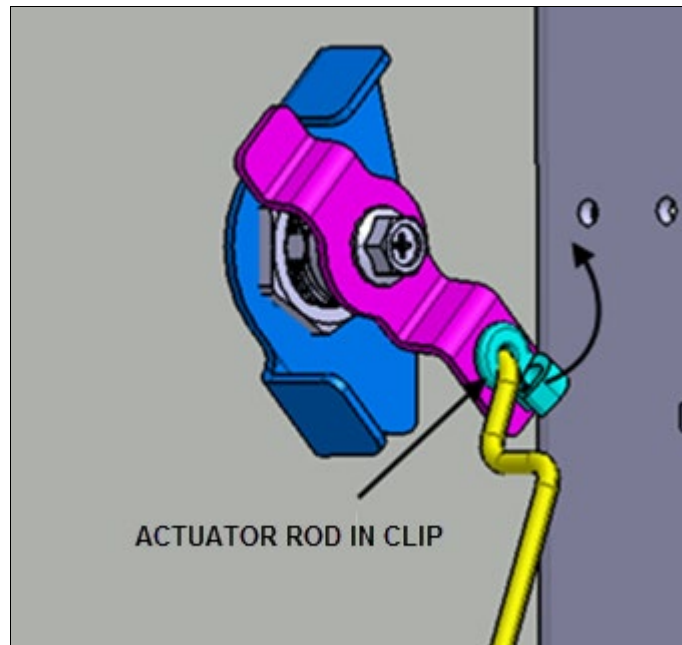


FIG.3 ACTUATOR COVER, ROD AND CLIP

4. Remove the hex screw retaining the latch plate to the cylinder barrel tip (Fig.4).

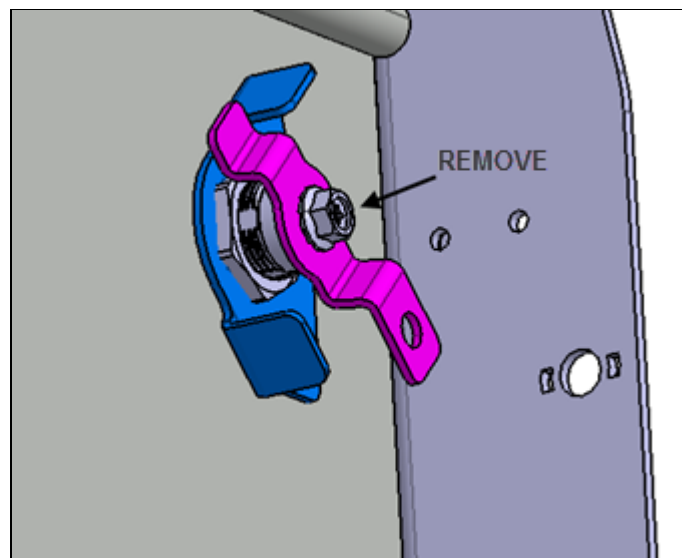


FIG.4 BARREL HEX SCREW

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5. Remove the latch plate (Fig.5).

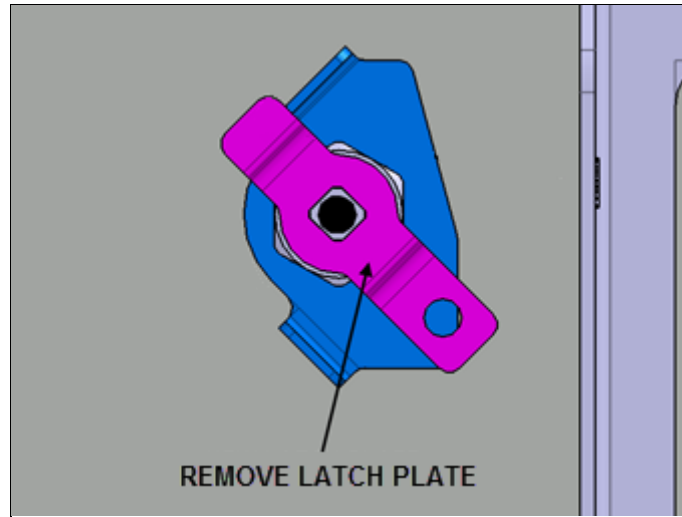


FIG.5 LATCH PLATE

6. Push the barrel out of the cylinder & clean all lock cylinder parts. The inside of the cylinder housing, the spring, the barrel and its O-ring must be cleaned from all dirt and grease using a suitable O-Ring/rubber safe cleaner (Fig.6).

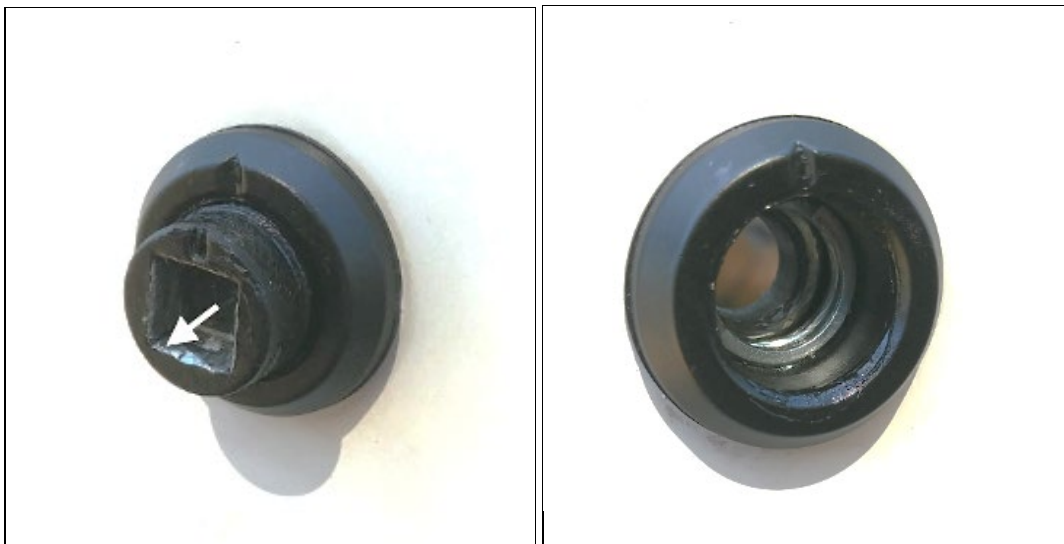


FIG.6 BARREL OUT OF CYLINDER

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7. Apply Permatex synthetic grease to the cylinder O-Ring. Also apply a coat of synthetic grease inside the cylinder housing (Fig.7).



FIG.7 CYLINDER LOCK LUBRICATION POINTS

8. Reinsert the barrel in the cylinder (notch pointing up); wipe excess grease (Fig.8).

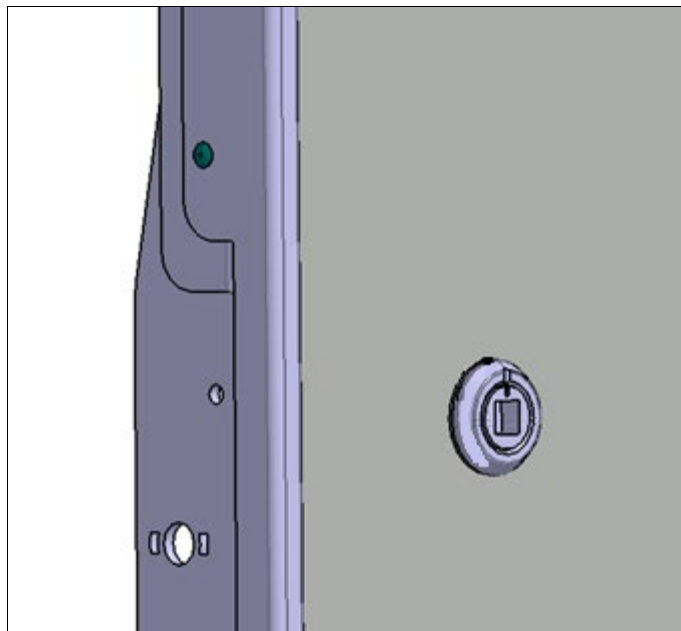


FIG.8 BARREL REINSERTED IN CYLINDER

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9. Install the latch plate on the cylinder tip. The shorter tab must fit between the two striker plate tabs and make contact with the upper one as shown in Fig.9.

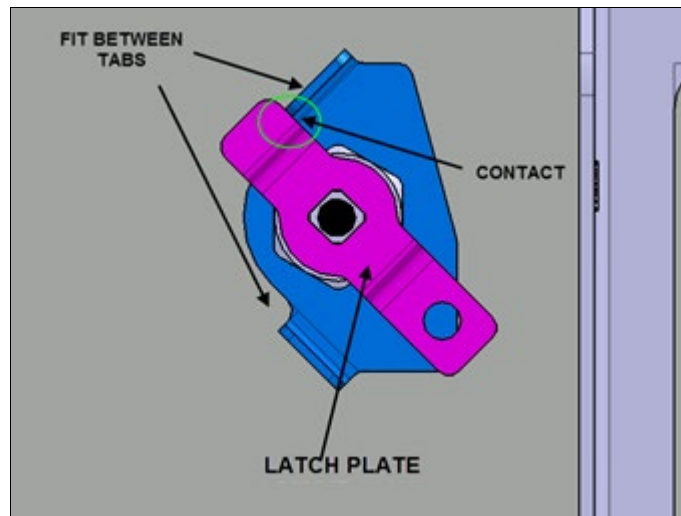


FIG.9 NEW LATCH INSTALLATION

10. Secure the latch using the previously removed hex screw (Fig.10). Max torque **88.5 lb-in** (apply a stripe of tamper proof indicator paint (torque seal) to the screw head).

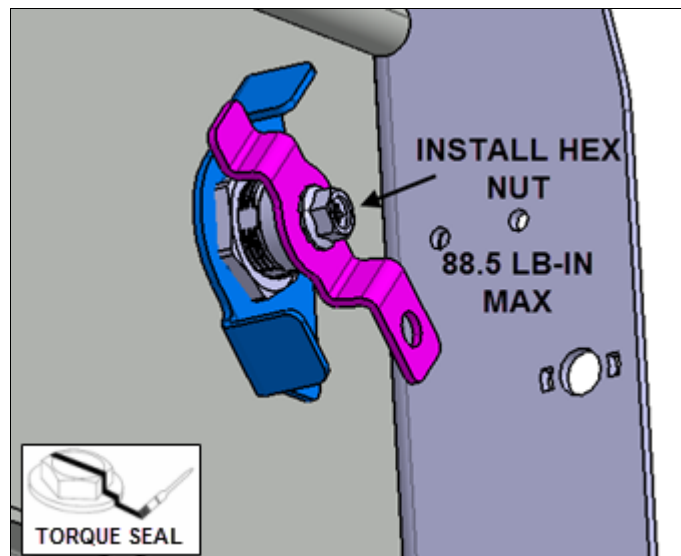


FIG.10 SECURING THE LATCH PLATE

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11. Insert the plastic clip in the latch perforated tab (Fig.11).

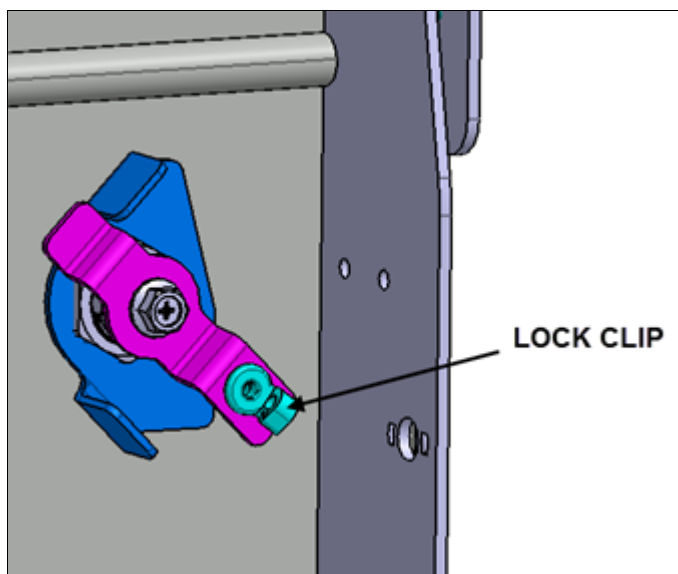


FIG.11 LOCK CLIP INSTALLATION

12. Reinstall the rod upper end in the clip (make sure that the cylinder cover is in place with the rod inserted in the cover bottom slot like shown in Fig.12).

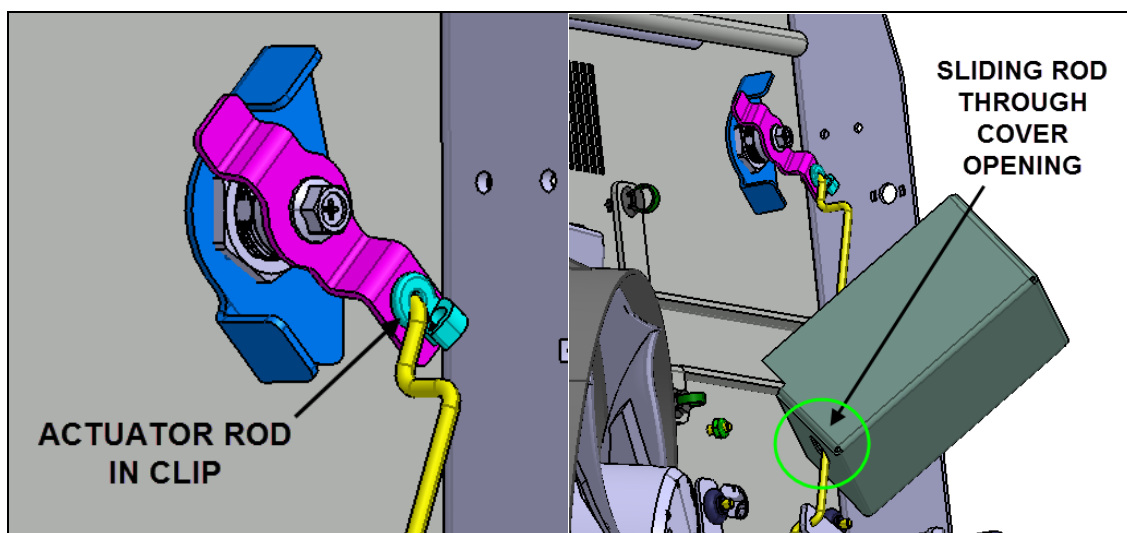


FIG.12 ACTUATOR ROD AND COVER INSTALLATION

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13. Lock the rod in place by pressing the lower "hook" part of the clip over the rod (Fig.13).

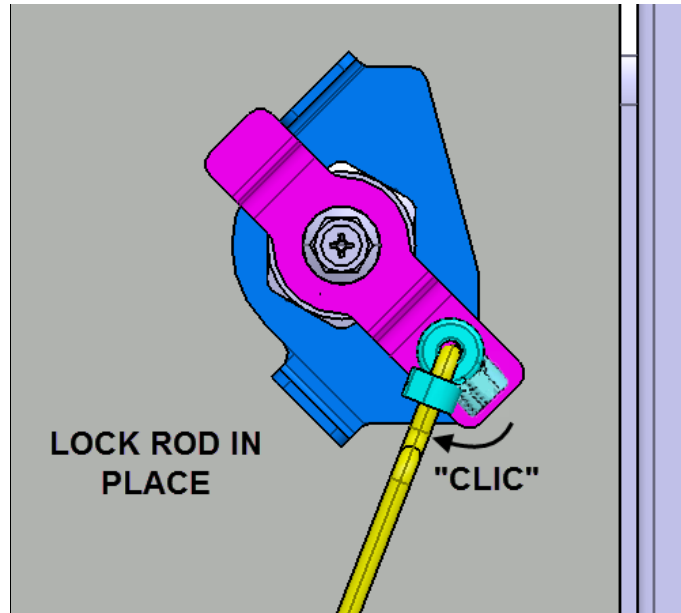


FIG.13 ACTUATOR ROD LOCKED

14. Slide the cover back into position over the cylinder lock mechanism and secure it to the door frame using the 4 Phillips head screws and locks (apply a stripe of tamper proof indicator paint (torque seal) to the screw heads (Fig.14)).

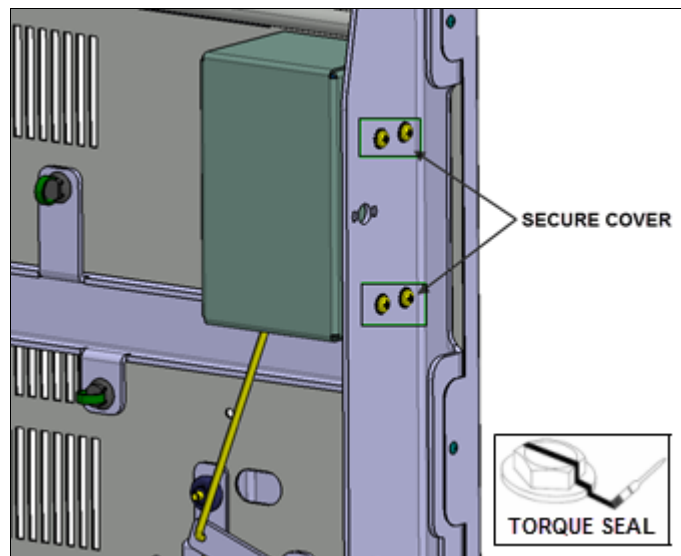


FIG.14 COVER REINSTALLATION

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15. Open and close the door and ensure that the door and door locking mechanism are working properly (Fig.15).

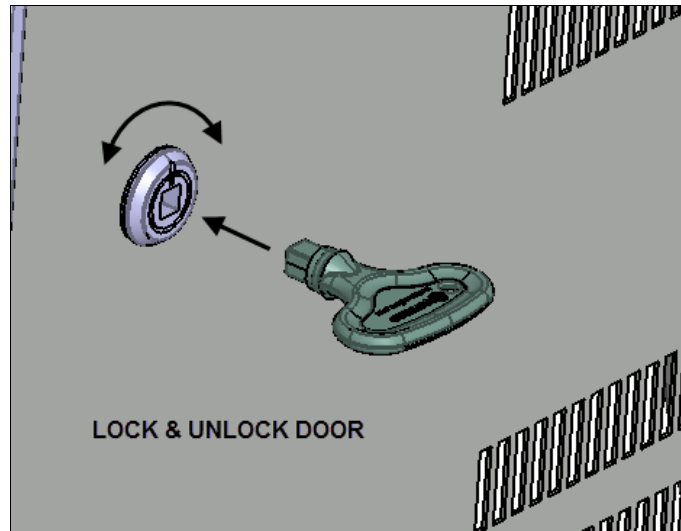


FIG.15 CHECKING DOOR LOCK MECHANISM FUNCTION

16. Inspect and replace as required any worn or broken compressor door latch pin. To replace latch pin, refer to Fig.16 & Fig.17 below and proceed as follow:
- Remove the #2 pivot screw securing the #4 actuating arm to the #3 latch bracket.
 - Apply slight pressure to the #5 latch pin tip and disengage the actuating arm from the pin (and #1 actuating rod as req.).
 - Remove both #7 latch screws holding the latch bracket to the door frame.
 - Remove and discard the latch pin (#6 spring will be reused).
 - Insert new latch pin **2801055** (and spring) into latch bracket opening.
 - Secure the latch mechanism to the door frame using the two latch screws, apply a slight amount of medium strength thread locker (Loctite blue 243 or equivalent) to the screw threads. **Torque both screws to 7 LB-FT.**
 - Apply slight pressure to the latch pin tip and re-engage the actuating arm in the pin slot (also engage actuating rod).
 - Secure the actuating arm to the latch bracket with the pivot bolt. Apply a slight amount of medium strength thread locker (Loctite blue 243 or equivalent) to the pivot bolt threads.
 - Check for proper door latch operation (open and close door several times). Once completed, apply tamper proof indicator paint (torque seal) to the latch screw heads.

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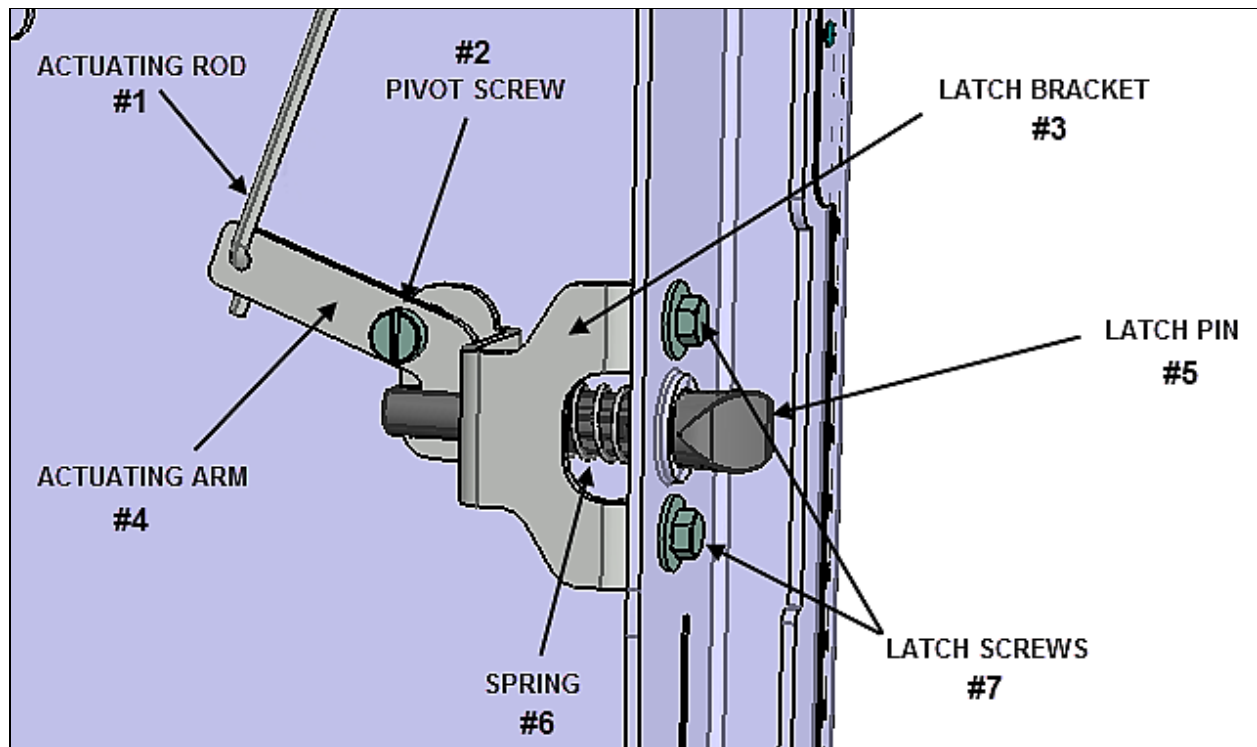


FIG.16 COMPRESSOR DOOR LATCH COMPONENTS

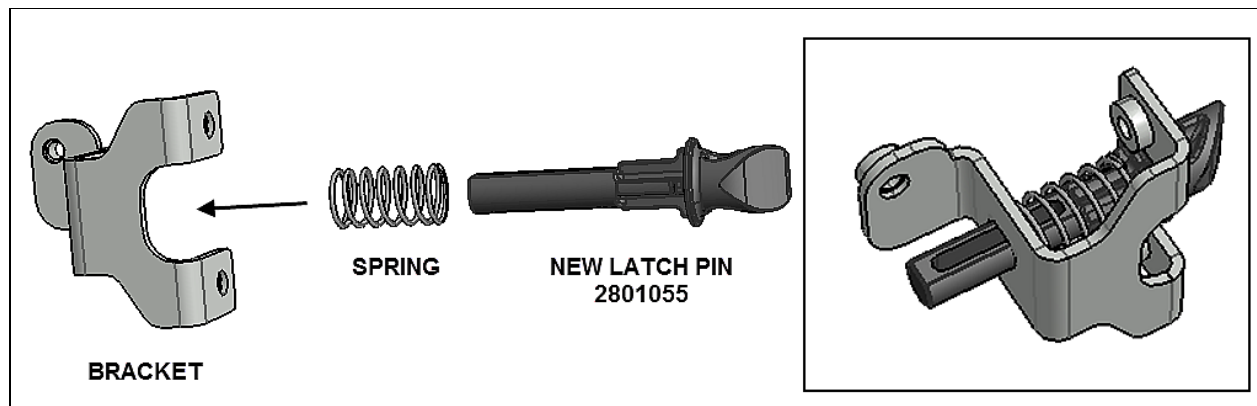


FIG.17 NEW LATCH PIN IN BRACKET

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17. Inspect and replace as required both upper and lower door bumper(s) as shown in Fig.18 & Fig.19.
- To remove the upper bumper, drill out the center rivet holding the bumper to the structure.
 - Secure a new **5002025** upper bumper to the structure using a **504339** rivet (use appropriate rivet gun).
 - To remove the lower bumper, unscrew the bumper from the structure bracket.
 - Insert a new **502839** nut in the bracket and screw in a new **504454** bumper.

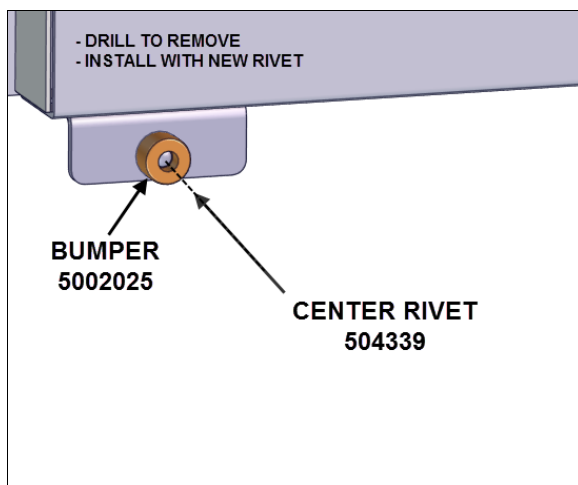


FIG.18 UPPER BUMPER REMOVAL & INSTALLATION

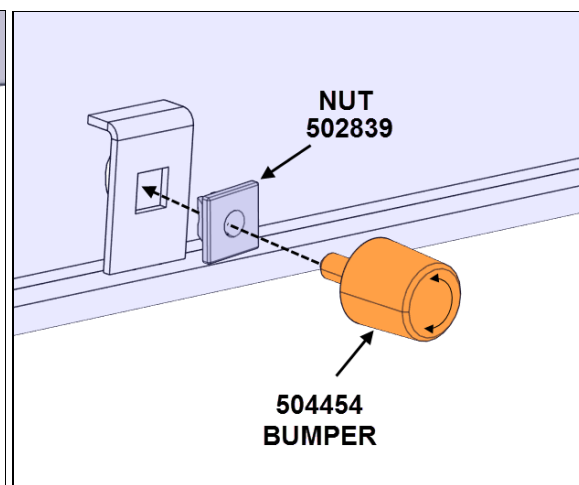


FIG.19 LOWER BUMPER REMOVAL & INSTALLATION

18. Reset main circuit breakers and set the battery master switch (master cut-out) to the ON position.

PARTS / WASTE DISPOSAL

Discard waste according to applicable environmental regulations (Municipal/State[Prov.]/ Federal)

ESTIMATED TIME

The time required to perform this special bulletin is approximately 30 minutes (0.5) hour.

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OTHER

VBC Bulletin	N/A
Fail Code	18.05
Defect Code	09
Syst. Cond	B
Causal Part	2800660

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