

PREVOST

WARRANTY BULLETIN

WB20-04

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|-------------|---|-----------|---------|
| DATE : | October 2021 | SECTION : | 18 BODY |
| EXPIRATION: | October 2023 | | |
| SUBJECT : | COMPRESSOR DOOR HANDLE REPLACEMENT | | |

First Release

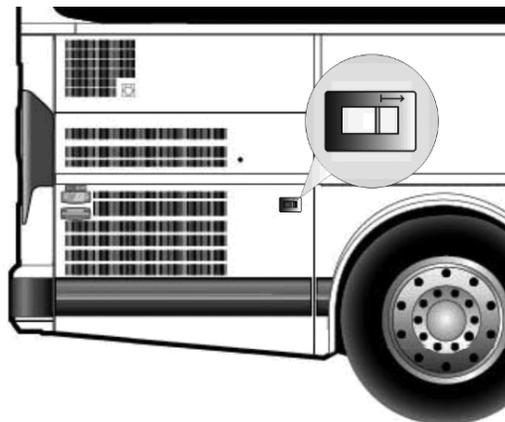
10-06-2021

APPLICATION

| NOTICE TO SERVICE CENTERS | |
|--|--|
| <i>Verify vehicle eligibility by checking warranty bulletin status with SAP or via ONLINE WARRANTY SYSTEM available on Service / Warranty tab of Prevost website.</i> | |
| Model | VIN  |
| Canadian build X3-45 Coaches. Model Year : 2017 - 2020 | From 2PCG33490 <u>H</u> C73 <u>6182</u> up to 2PCG33497 <u>L</u> C73 <u>6527</u> incl. |
| US build X3-45 Coaches. Model Year : 2017 - 2020 | From 4RKG33496 <u>H</u> 973 <u>7400</u> up to 4RKG33496 <u>L</u> 973 <u>7695</u> incl. |
| <p>This bulletin does not necessarily apply to all the above-mentioned vehicles, some vehicles may have been modified before delivery. The owners of the vehicles affected by this bulletin will be advised by a letter indicating the Vehicle Identification Number (VIN) of each vehicle concerned.</p> | |

DESCRIPTION

On the vehicles affected by this bulletin the compressor door handle must be replaced by an improved unit with more positive latching fell and better ergonomics. A top corner support must also be added to reduce door movements and road noise during operation.



MATERIAL

Order kit **WB20-04** which contains the following parts:

| Part No. | Description | Qty |
|----------|---|-----|
| 2810322 | GUIDE, LATCH | 1 |
| 2810323 | SUPPORT | 1 |
| 2810357 | SUPPORT, HANDLE ASS'Y | 1 |
| 2810358 | SUPPORT, STRIKE ASS'Y | 1 |
| 2810360 | RETAINING PLATE ASSY | 1 |
| 2810362 | LATCH, COMPRESSOR DOOR, WELDED | 1 |
| 2810302 | LEVER, LATCH ASSY | 1 |
| 2810159 | SPACER | 1 |
| 2810162 | FINISHING PLATE ASSY | 1 |
| 500539 | NUT HEX NYRT NX500 M4-0.7 | 3 |
| 502556 | WSH FL SS 4.3X9X.8 (M4,#8) | 3 |
| 5002015 | WSH BEL SPR SS 301 6.2X18X9 (M6,#12) | 10 |
| 502622 | SCR CAP HEX SS NSS M6X20 FT | 10 |
| 280589 | ROLLER | 1 |
| 5001461 | SCR MA FL PH SS M8-1.25X40 FT | 1 |
| 5001787 | NUT HEX NYRT SS M8-1.25X9.5 | 3 |
| 500119 | SCR CAP HEX SS NSS M8X1.25X20 | 1 |
| 5001849 | WSH FL SS 8.4X24X2 (M8,5/16) | 1 |
| 502910 | SPRING, COMPRESSION .720X1.75X.05 | 1 |
| 2801055 | PIN LATCH | 1 |
| 2810149 | RETAINING PLATE | 1 |
| 2810233 | SPACER (SHIM) | 3 |
| 2810232 | STRIKE, COMPRESSOR DOOR ASSY | 1 |
| 5002148 | SCR SHR HEXS SS 10X20 M8-1.25 | 1 |
| 500283 | SCR TC TR PH SS410 10-24X3/4 | 2 |
| 5001833 | WSH BEL SPR SS 301 6.65X17.4X1.27(M6,1/4) | 2 |
| 9419967 | SCREW TAPHXWA1/4-14X3/4ZNL,170 | 2 |

Other parts that may be required:

| Part No. | Description | Qty |
|----------|--------------------------|-----|
| 36940 | JIG, DOOR HANDLE OPENING | 1 |
| 36979 | JIG, HANDLE MECHANISM | 1 |
| 36980 | JIG, DOOR CORNER | 1 |
| 36981 | JIG, VEHICLE STRUCTURE | 1 |

NOTE

Material can be obtained through regular channels.

PROCEDURE



DANGER

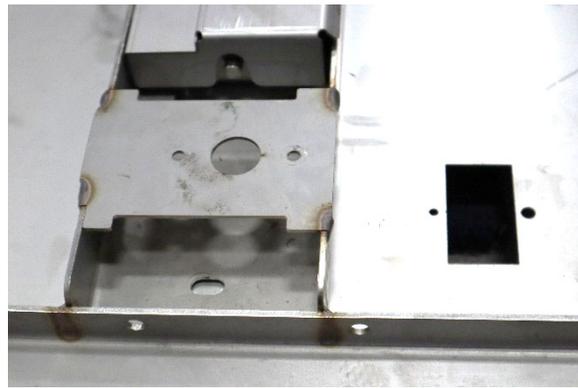
Park vehicle safely, apply parking brake, stop engine. Prior to working on the vehicle, set the ignition switch to the OFF position and trip the main circuit breakers equipped with a trip button. On the Commuter type vehicles, set the battery master switch (master cut-out) to the OFF position.

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. Remove the compressor door from the vehicle.
2. Have the door lay flat (horizontally) to expose the inner door handle mechanism
3. Make sure that the door exterior finish (paint) will not be scratched or damaged, use protection between the door and the support used to maintain the door flat.



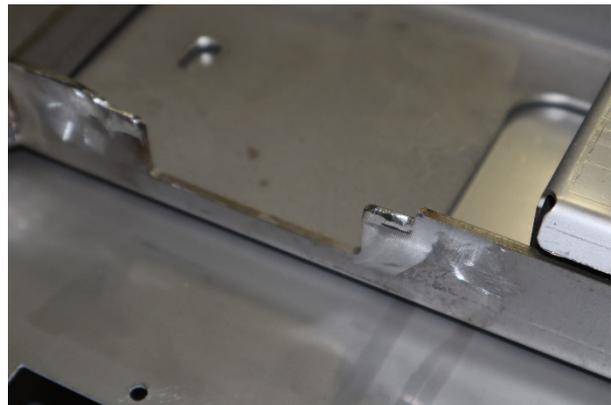
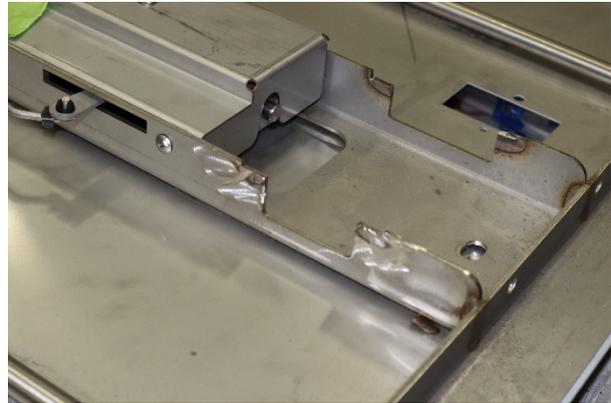
4. Remove the door mechanism and all related components & trim from the door.



5. Remove (cut with rotary tool) the door mechanism mounting plate from the door structure. Make sure to leave the "U" channel and cutouts intact.



Clean and deburr the cut area on the door.

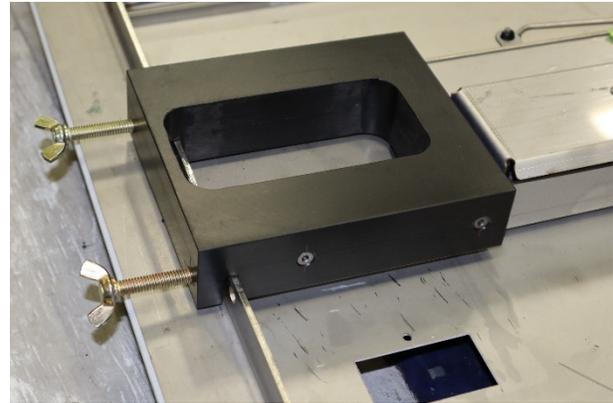


Using a rotary wheel cutter, remove the lower exterior part of the U channel. Take note that the lower edge of the cutout must remain in place, only a small area needs to be cut all the way through the base of the channel (see pictures for details).

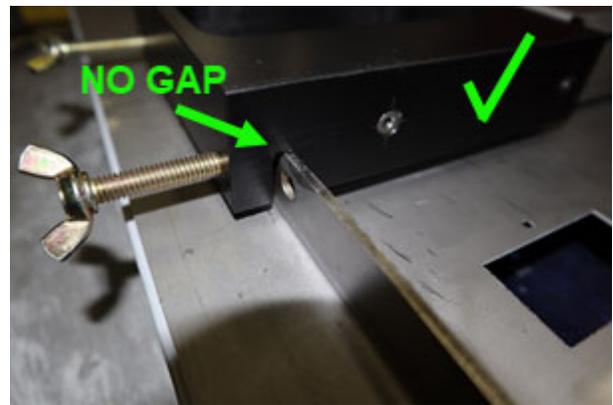


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| <p>6. Using a sharpie, mark the half-moon area where the new latch pin will be installed</p> |  |
| <p>7. Grind the area using a suitable die grinder and smooth the edge of the cut.</p> |  |

8. Install the **36979** jig over the mechanism area and tighten in place.



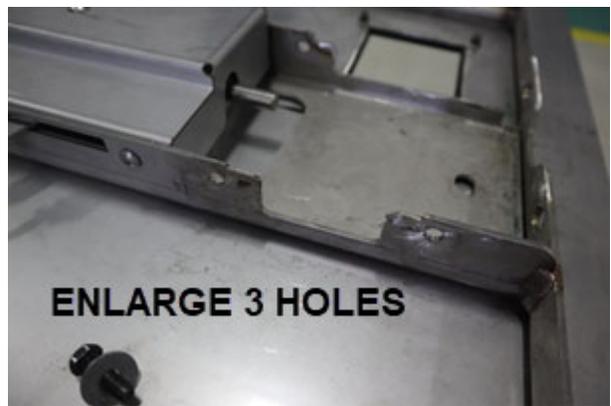
9. Make sure that there is no gap between the top of the door frame and the bottom of the jig's groove as shown.



10. Using a long and slightly flexible drill bit (or an angle drill), drill the 3 necessary holes in the door structure (use jig as a guide to drill the 3 holes).



11. Enlarge the 3 holes enough to accept the 3 mounting screws supplied in the kit.

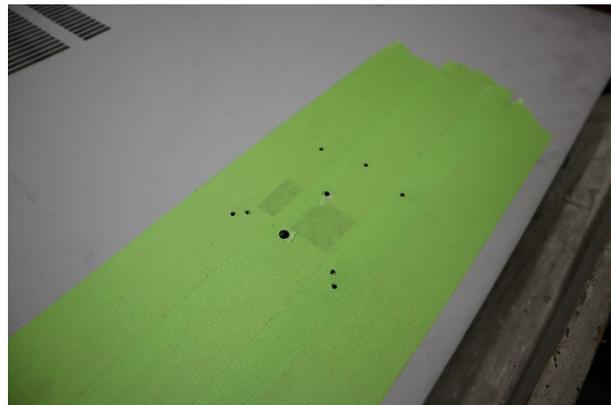


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| <p>12. Flip the door 180 deg on the table to expose the exterior (painted) side.</p> <p>13. Put some masking tape around the door handle opening.</p> |  |
| <p>14. Install the 36940 door opening jig over the door opening</p> <p>15. Make sure the 2 locating pins are inserted in the door.</p> <p>16. Tighten the jig from the underside as shown.</p> |  |

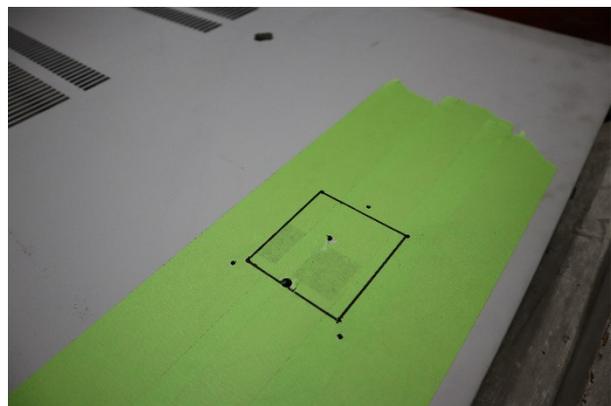
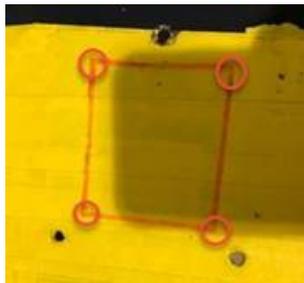
17. On top of the door, drill all the 7 jig's holes through the door skin.



18. Remove the jig from the door to expose the holes.

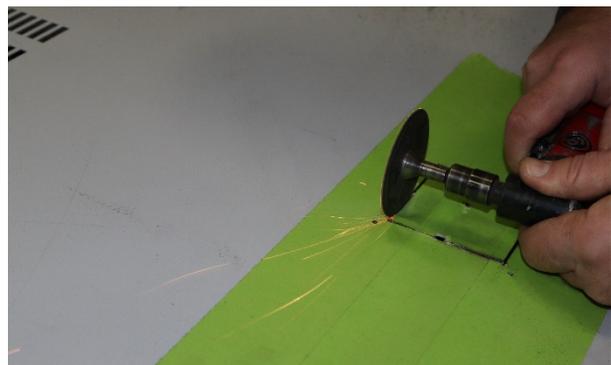


Using a sharpie, draw a rectangle using the 4 inner hole as a guide (make the 4 holes the 4 corners of the rectangle as shown).

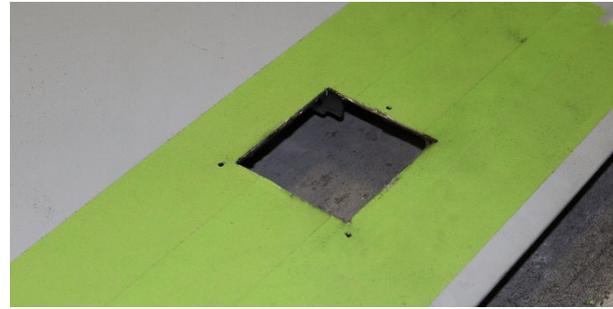


19. Carefully cut the rectangle off the door skin using a rotary tool.

IMPORTANT: Make sure not to distort the skin, burn or chip the paint. Go slowly and do not overheat the area.



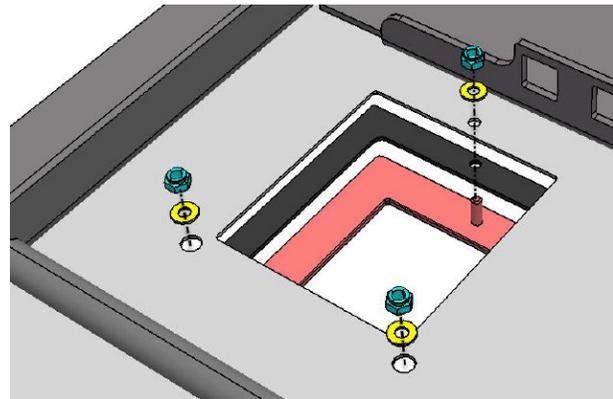
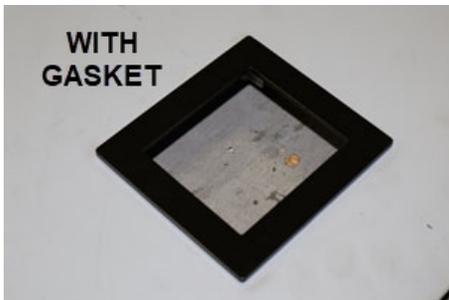
20. Make sure no sharp edges are left on the inner or outer skin.



21. Enlarge the 3 exterior holes as shown to allow the installation of the supplied **2810162** handle finishing plate and **2810159** gasket (spacer).



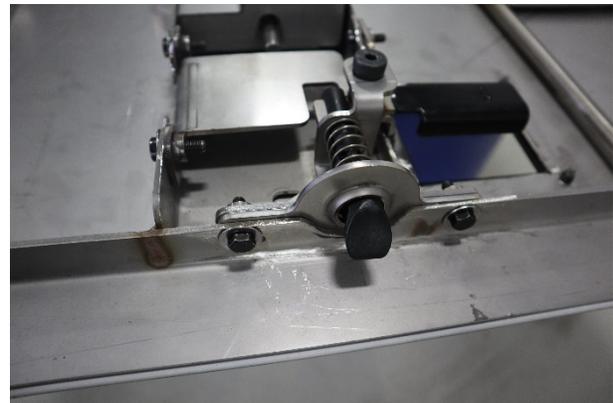
22. Secure the trim and gasket using the supplied **500539** nylon lock nuts & **502556** washers.

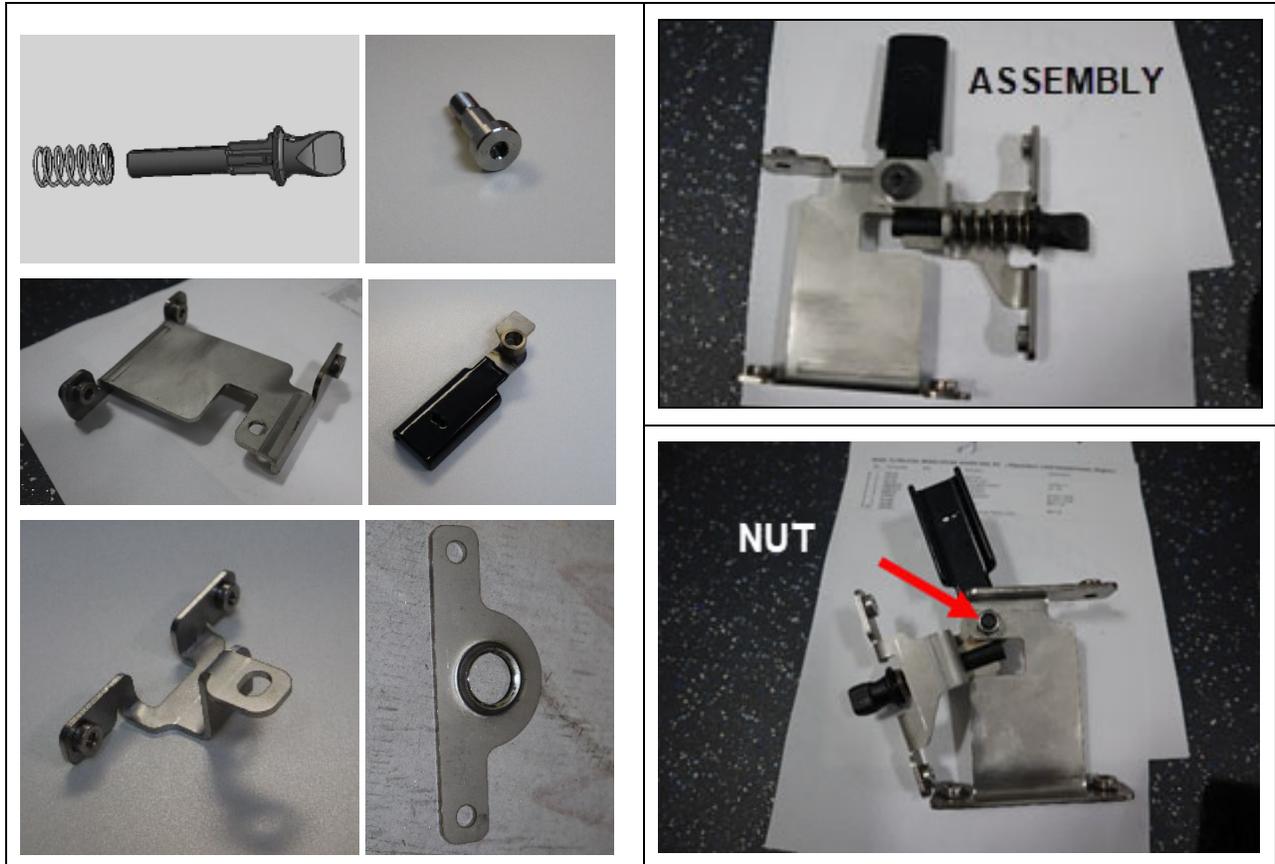


23. Make an assembly with the handle/latch parts and secure the assembly to the door using **502622** screws & **5002015** washers.

- **2810322** latch
- **2810357** handle support
- **2810302** handle
- **2801055** latch pin guide
- **502310** spring
- **5002148** Pivot bolt support
- **5001087** pivot nut
- **2810323** Support

Assembly is done by slipping the handle pivot area into the latch cavity with spring pressing against it. Secure the pivot bolt with the supplied locknut.





24. On the vehicle, remove the top door support bracket using a rotary toll. Proceed slowly and carefully and put some tape and metal shims to protect the vehicle painted surfaces.

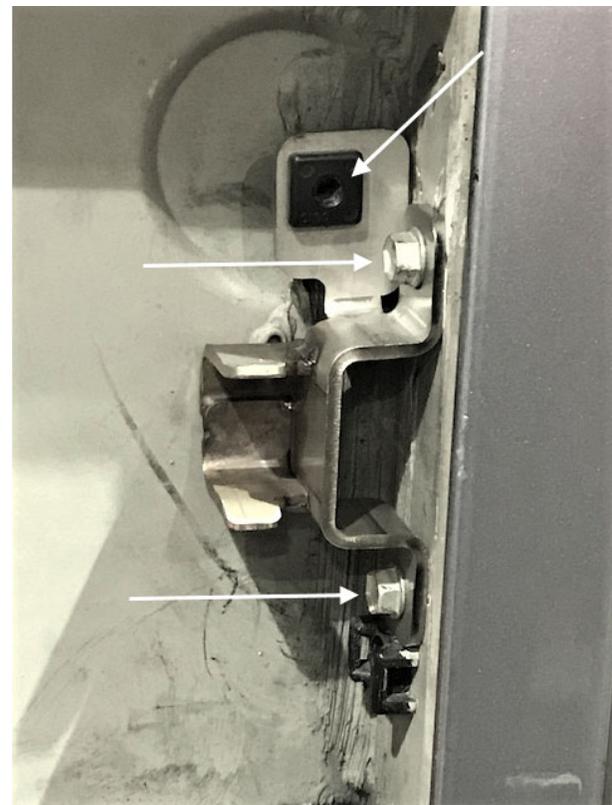


25. Drill two pilot holes on the door frame using the **36381** jig as a guide as shown.

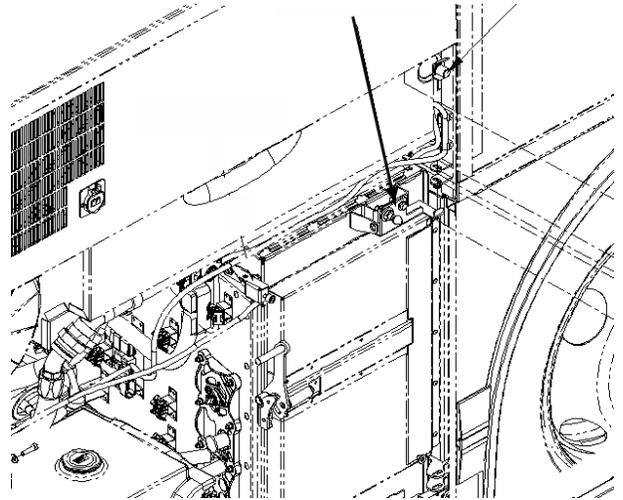
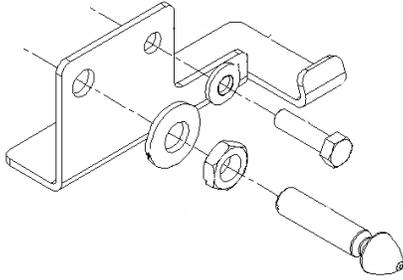


26. Position the new **2810362** upper door support bracket and secure to the vehicle using the supplied **9419967** metal screws.

Put back the black nylon insert in the support square hole and screw back the rubber bumper.



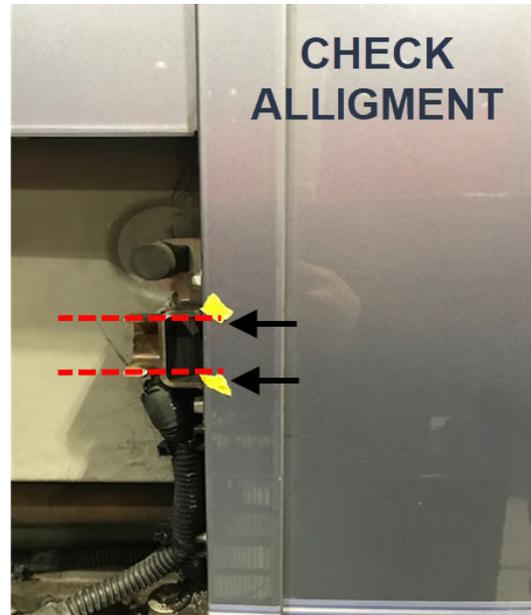
27. Remove the latch pin and related components located on the vehicle (just above the electrical compartment)



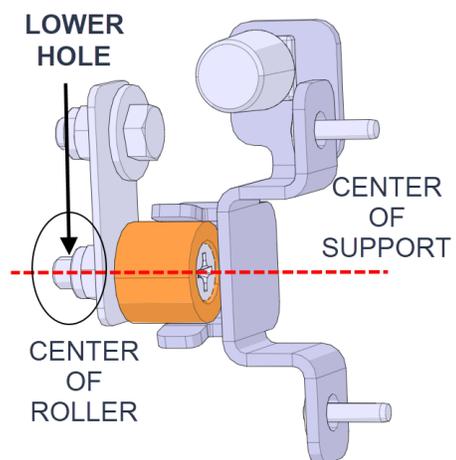
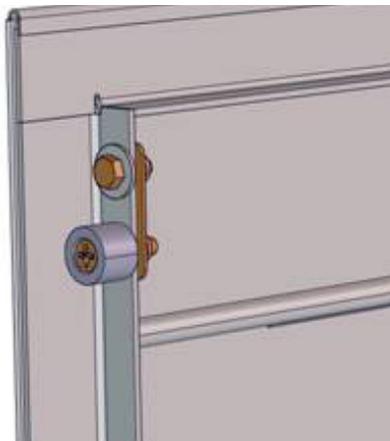
28. Reinstall the door and secure in place the **36980** jig at the top corner of the door.



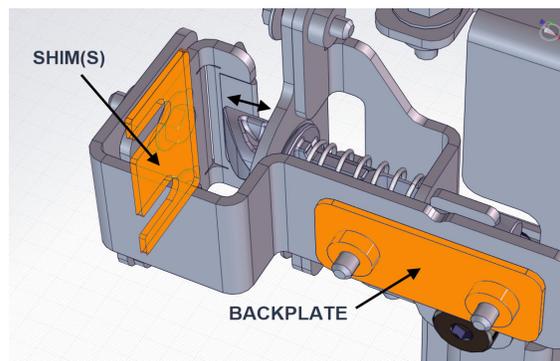
29. Mark the two drill points on the door frame (do not drill yet)
30. Make sure that the lower drill point is located in the middle of the new upper support "U" shaped part. Adjust both drill points as necessary.



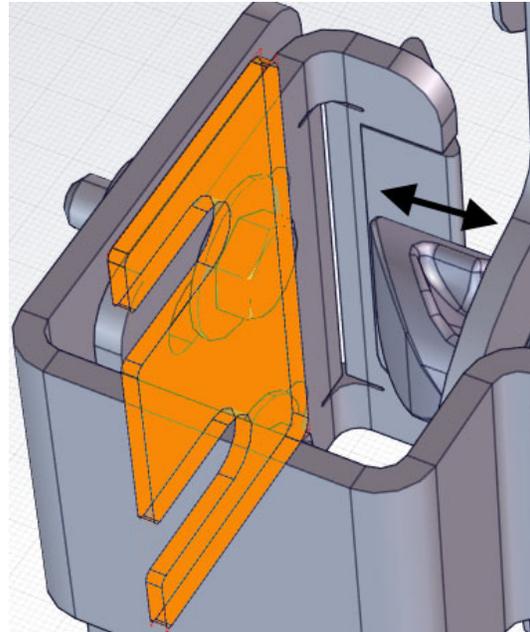
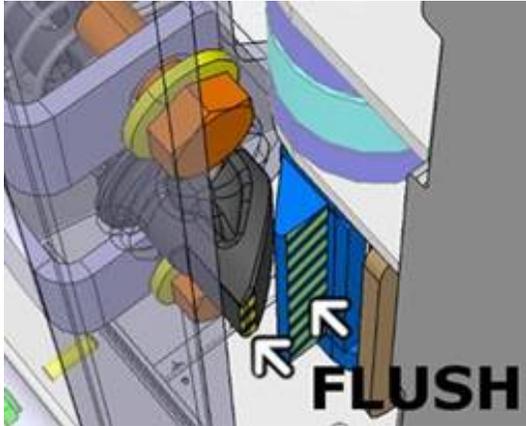
31. Install the **280589** door roller (**5001461** tapered screw, **2810149** retaining plate, **500119** screw, **5001849** washer & **5001787** nuts).



32. Secure the new **2810358** latch plate, **2810232** strike plate & **2810360** backplate to the vehicle using four **502622** screws & four **5002015** washers.



33. Insert **2810233** shims between the latch plate & the strike plate to bring the latch pin to the desired (flush) position relative to the strike plate tip (up to 3 shims can be stacked together).



34. Once the proper operation of the handle and closing mechanism is confirmed, adjust the door depth relative to the vehicle body by screwing or unscrewing the rubber bumpers.

Also make sure that both horizontal and vertical gaps are equals and straight.



PARTS / WASTE DISPOSAL

DO NOT RETURN THE REPLACED PARTS. Discard waste according to applicable environmental regulations (Municipal/State[Prov.]/ Federal)

WARRANTY

This modification is covered by Prevost's normal warranty. We will reimburse you the parts and Six hour(s) (6.0) of labor upon receipt of a warranty claim. Please submit claim via our Online Warranty System, available at www.prevostcar.com (under Service \ Warranty section). Use Claim Type: "Bulletin/Recall" and select "Warranty Bulletin WB20-04".

OTHER

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|--------------|---------|
| VBC Bulletin | N/A |
| Fail Code | 18.05 |
| Defect Code | 09 |
| Syst. Cond | B |
| Causal Part | 2801022 |

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