

# PREVOST

ENREGISTRÉ - REGISTERED  
ISO 9001 & ISO 14001


## WARRANTY BULLETIN

Wb08-07



|  |           |           |
|--|-----------|-----------|
| DATE : APRIL 2008  | SECTION : | 22 - HVAC |
| EXPIRATION: APRIL 2010   |           |           |
| SUBJECT : IMPROVED AIR CIRCULATION ON H3 COACHES<br>EQUIPPED WITH WCL AND SLIDING DOOR |           |           |

### APPLICATION

| Model   | VIN   |  |
|---|---|--|
| H3-41 – H3-45 Coaches<br>Equipped with WCL and<br>Sliding Door<br>Model Year : 2005 - 2008  | 2PCH33494 <u>51010109</u><br>AND THEN<br>FROM 2PCH33493 <u>51010179</u> UP TO 2PCH33491 <u>8C711070</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 above-mentioned vehicles, it is necessary to increase the air circulation in the overhead compartment as well as in the area behind the wheelchair lift door in order to improve the passengers comfort.

### MATERIAL FOR PART A

Kit #374379 for vehicles equipped with WCL and Sliding Door includes the following parts:

| Part No. | Description                       | Qty |
|----------|-----------------------------------|-----|
| 871326   | Fan                               | 1   |
| 374315   | Cowl, Plastic Angle               | 1   |
| 5001297  | Screw, Machine Hex. Head SS M4X20 | 10  |
| 502557   | Nut, Hex Nylon Insert SS M4       | 10  |

|        |                      |       |
|--------|----------------------|-------|
| 562585 | Wire, Black 14 gauge | 19 Ft |
| 562588 | Wire, Red 14 gauge   | 19 Ft |
| 561681 | Loom, Wire           | 19 Ft |

**NOTE**  
Material can be obtained through regular channels.

## MATERIAL FOR PART B

Kit #329623 for vehicles equipped with an auxiliary A/C system in the overhead compartments includes the following parts:

| Part No. | Description                           | Qty  |
|----------|---------------------------------------|------|
| 457440   | Deflector                             | 1    |
| 506264   | Insulating Part, Front Wall           | 0.13 |
| 289494   | Insulating Part, Air Ducting Assembly | 1    |
| 329611   | Ducting Assembly, Air                 | 1    |
| 329612   | End Part, Air Ducting Front           | 1    |
| 329613   | End Part, Air Ducting Rear            | 1    |
| 329614   | Closing Part, Air Ducting             | 1    |
| 329615   | Seal, Rubber                          | 2    |

## MATERIAL FOR PART B

Kit #329624 for vehicles without an auxiliary A/C system in the overhead compartments includes the following parts:

| Part No. | Description                           | Qty  |
|----------|---------------------------------------|------|
| 457440   | Deflector                             | 1    |
| 506264   | Insulating Part, Front Wall           | 0.13 |
| 289494   | Insulating Part, Air Ducting Assembly | 1    |
| 329611   | Ducting Assembly, Air                 | 1    |
| 329621   | End Part, Air Ducting Front           | 1    |
| 329613   | End Part, Air Ducting Rear            | 1    |
| 329614   | Closing Part, Air Ducting             | 1    |
| 329615   | Seal, Rubber                          | 2    |

## PROCEDURE



### DANGER

Park vehicle safely, apply parking brake, stop engine and set battery master switch(es) to the OFF position prior to working on the vehicle.

## PART A: IMPROVED AIR CIRCULATION IN OVERHEAD COMPARTMENT

### TOOLS REQUIRED

6-INCH HOLE SAW

ANGLE DRILL

WIRE STRIPPERS

WIRE CRIMPING TOOL

RIVET GUN AND RIVETS

PHILLIPS SCREWDRIVER

FLAT SCREWDRIVER

TIE WRAPS

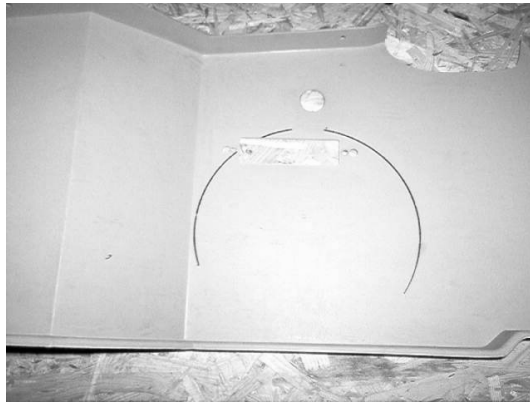
1. Remove existing overhead compartment end cover.



2. Assemble fan (871326) to angle cowl (374315). Use machine screws that fit the existing holes in the fan assembly.



3. Remove the light assembly from the original end cover and place the fan up against the cover and mark the outer edges of the fan housing. You will notice that you will have a small area where that original light was mounted that will be visible, that is OK as we will use that area to pass the new wiring through.



Using the hole saw, center the hole saw in the area that you marked (the saw blade should be about one half inch inside of the markings all the way around). At this time you should also mark an area to the right of where the fan will be mounted for the light. There is no exact area for this, about half way between the fan and the edge will work just fine.

|   |
|---|
| <b><i>NOTE</i></b>  |
| <i>If you do not remount the light on a multiplex coach there will be an active code for the light = open circuit</i> |



Cut these two areas out. The fan area with the 6-inch hole saw and the light area with a die grinder or a pneumatic hack saw.



Place the light fixture on the cover and mark the holes, drill a pilot hole and attach the light with ¼ inch rivets, reinstall the light cover at this time.

Place the fan against the cover where it will be mounted and mark the mounting holes. Drill the mounting holes and attach the fan to the cover with machine screws.

You should use a self tapping screw for the bottom hole, as using a machine screw and nut is all but impossible.

***NOTE***

*Prior to mounting the fan to the cover, the harness (which you need to make about 19 feet long) should be installed and passed through the hole left from the light assy. Trying to do this afterward is very difficult. In some cases you might have to notch the existing hole a little to ensure the wires are not pinched.*

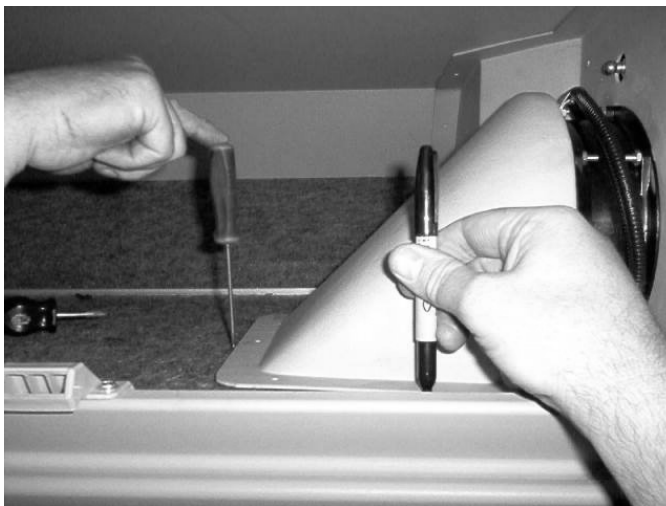




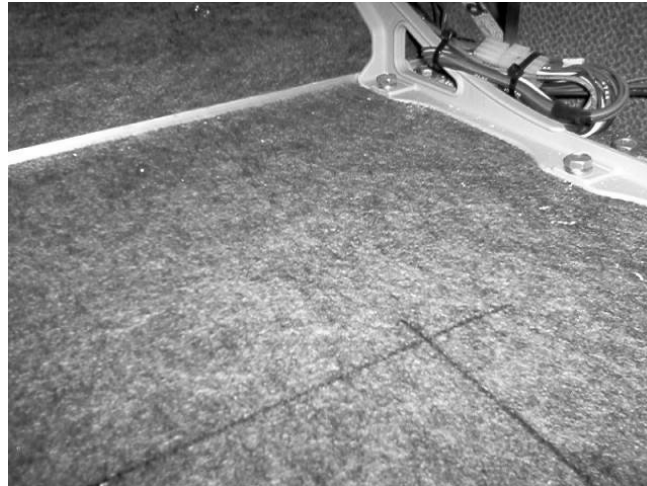
4. Place the fan cowl assembly back in the overhead compartment. Install a few screws that hold the end cover in place to ensure correct positioning.



5. Using the plastic angle cowl as a guide, make a center mark on each side of the cowl. After the marks are made remove the fan and cowl assembly.



Use a straight edge and draw a line from each direction and where the lines cross is the center point of the cowl.



6. Remove every other passenger vent assembly starting from the rear.



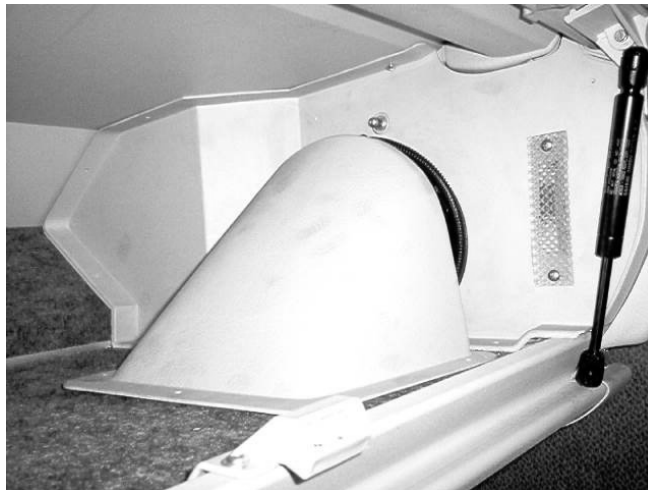
Drill a pilot hole and using the hole saw, drill a 6-inch hole in the flooring of the overhead compartment.



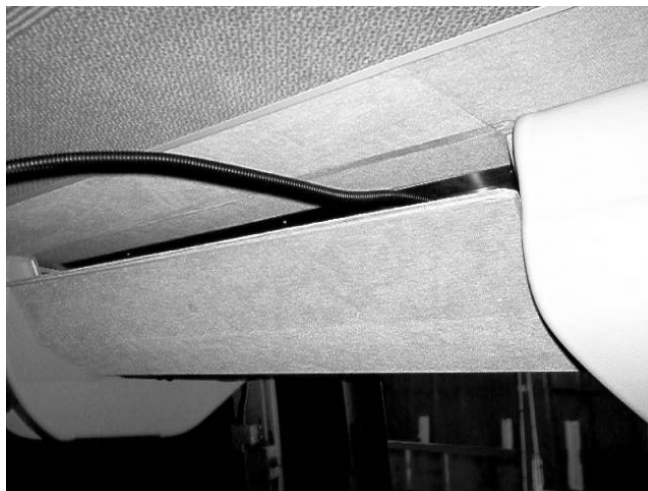
When the hole is complete it should look like the following picture. You can cut this hole with a die grinder in the shape of a square but it is a lot messier and takes longer to complete.



7. Install the fan cowl assy., pass the harness through the overhead compartment and drill a pilot hole in each of the 5 holes in the cowl and install either self tapping or sheet metal screws in these five holes.



8. Run the harness all the way through the overhead compartment to the forward side of the wheelchair lift door. Loosen the cover in the wheelchair area and remove the cover on the forward pillar to run the harness to the forward pillar. Tie wrap the harness to the existing harnesses in the overhead compartment, leave them loose until the harness installation is complete.







9. Splice the fan harness wires into the existing overhead compartment fan wiring 43 (power) and OEV6 (Ground) for multiplex coaches. For non-multiplex coaches use wire 43D for the power wire and OK for ground.
10. Start the coach and run the overhead compartment fans to ensure proper installation. After this is confirmed, secure all tie wraps and reinstall the cover for the forward pillar and the passenger vent covers.

After all is done, the final installation is finished and should look like this.



## PART B: IMPROVED AIR CIRCULATION IN THE AREA BEHIND THE WCL DOOR

- 1) Remove the existing door air ducting front and rear end parts. Also remove the door air ducting assembly.
- 2) Affix the air ducting assembly insulating part (289494) onto the air ducting assembly (329611) (Refer to figure 1).

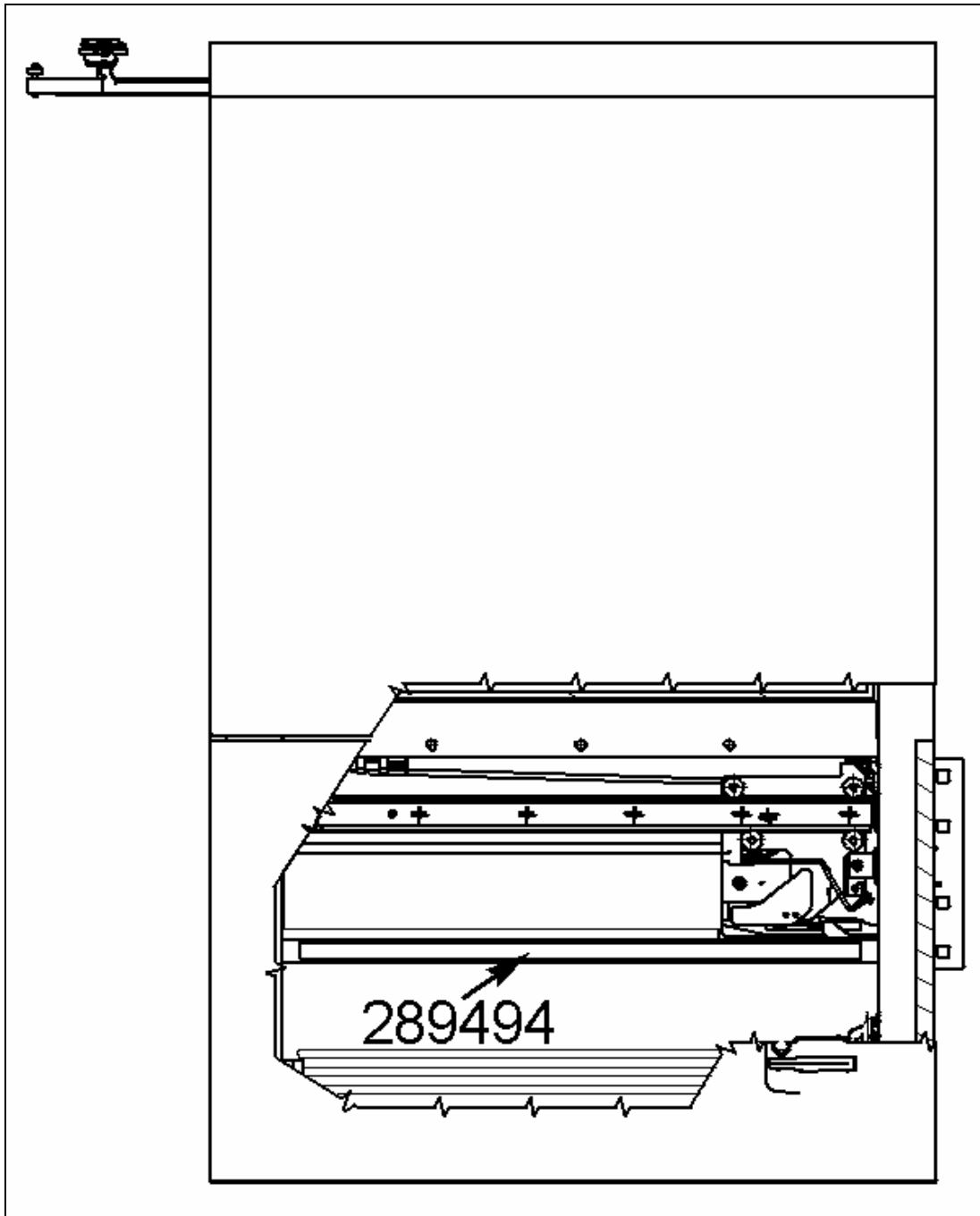


FIGURE 1

- 3) Place the door air ducting assembly onto the door and install the rubber seal on each end of the door air ducting as pictured.

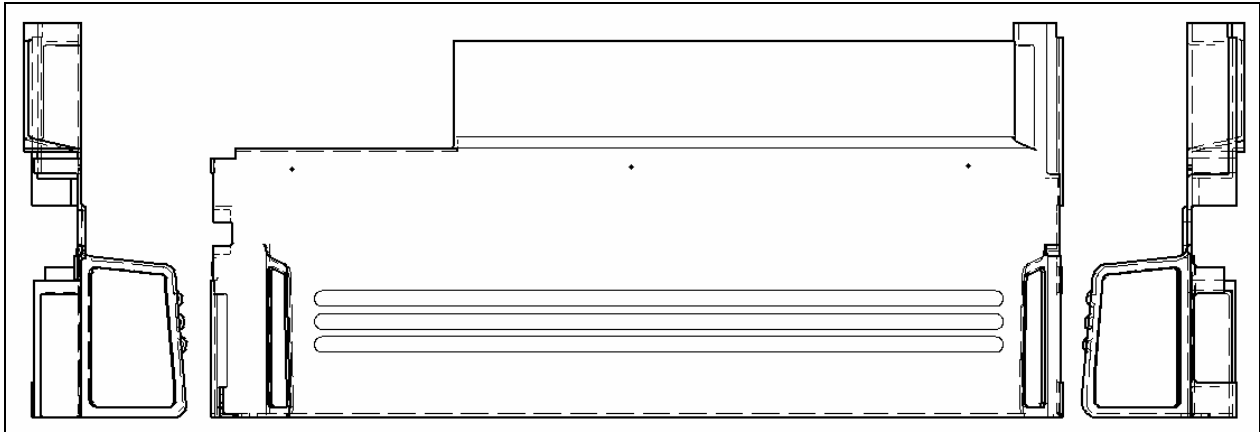


FIGURE 2

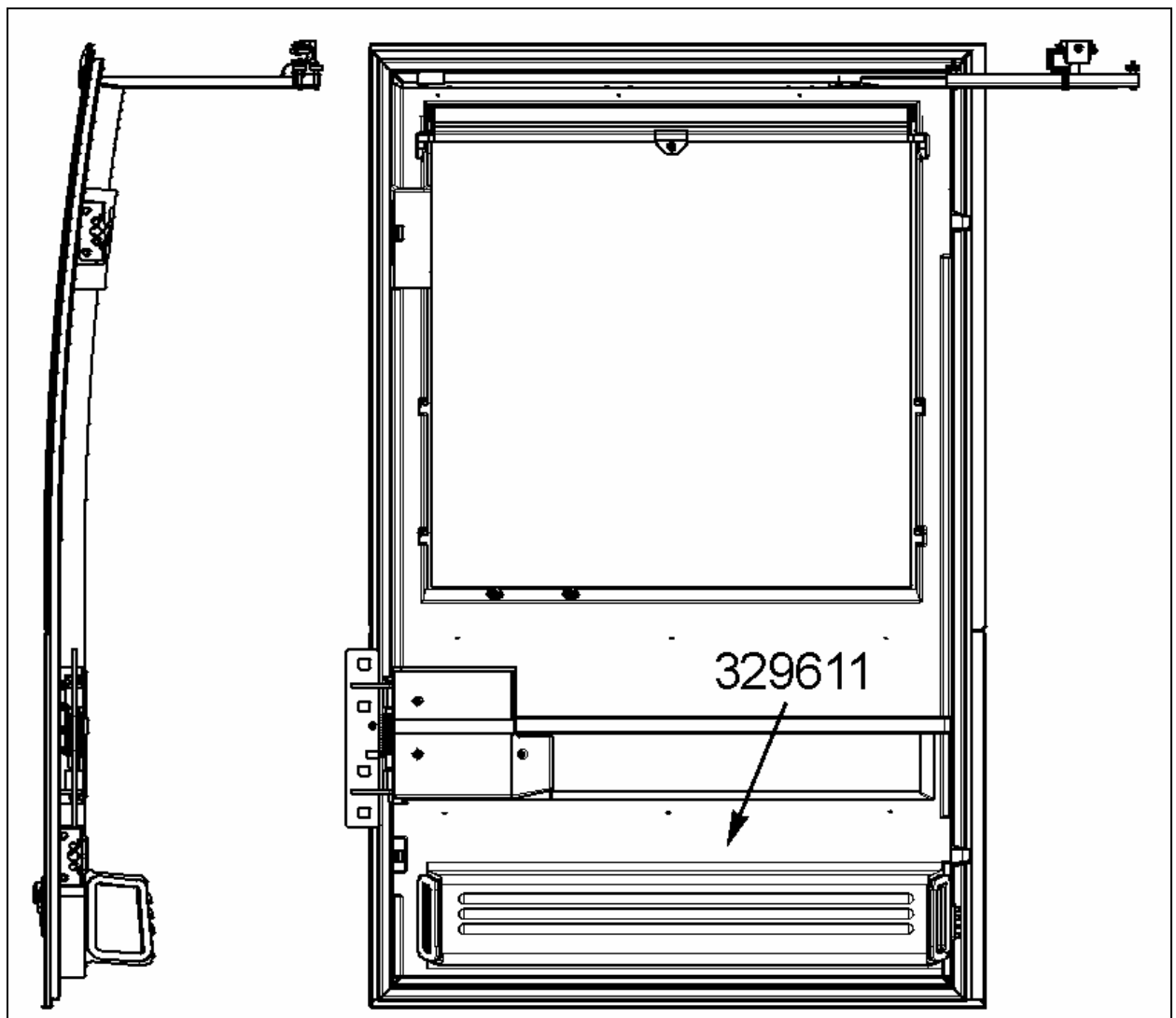


FIGURE 3

- 4) Fix the air ducting closing part (329614) onto the air ducting front end part (329612 or 329621) then install the air ducting front end part (Refer to figure 4).

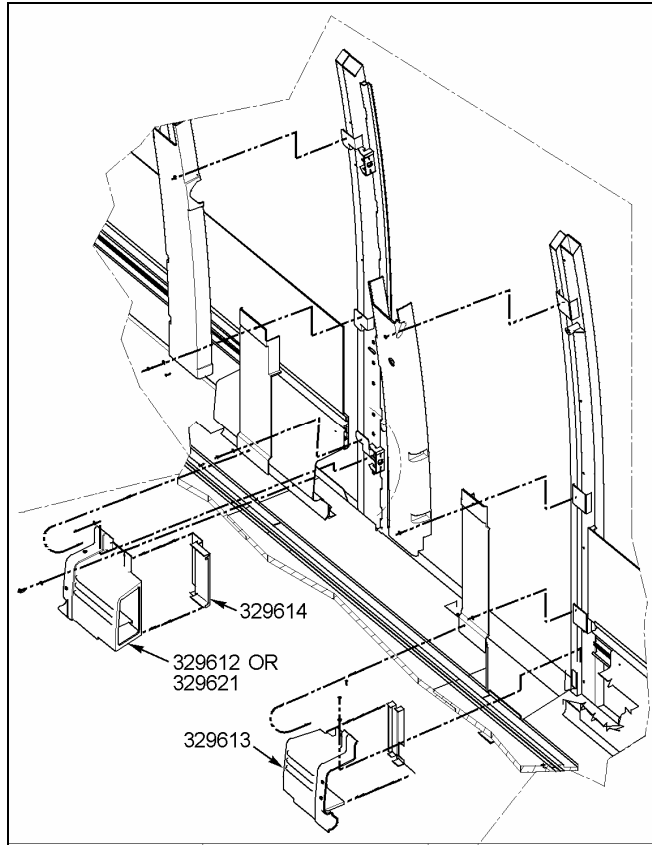


FIGURE 4

- 5) Install air ducting rear end part (329613) (Refer to figure 4).
- 6) Fix front wall insulating part (506264) behind the extrusion as indicated in figure 5.

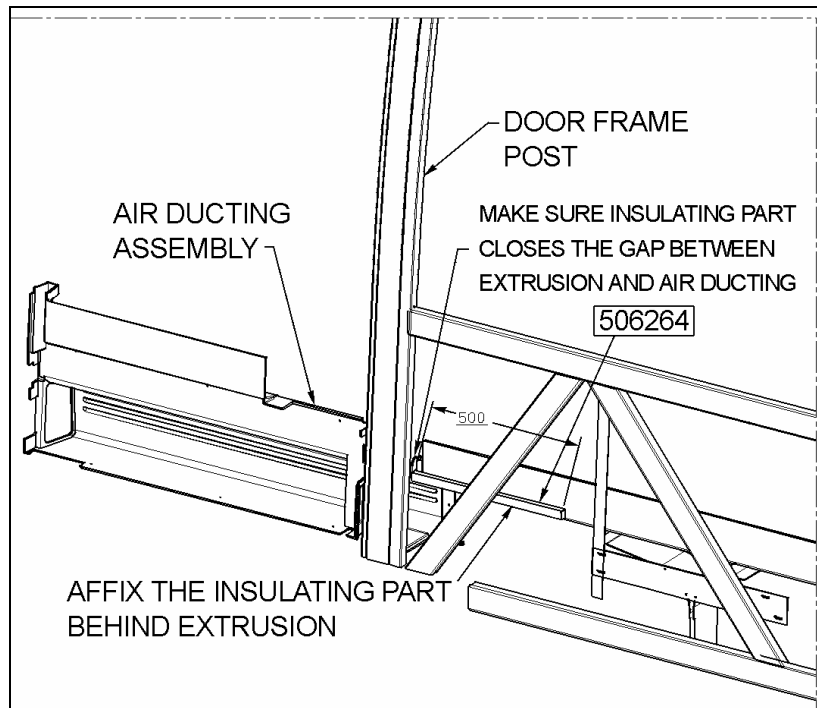


FIGURE 5

- 7) Close the WCL door and make sure it fits correctly. The rubber seal should cover the “gap” between the door air ducting assembly and the air ducting front and rear end parts. If needed you can adjust the air ducting front and rear end parts to close the gap if the door air ducting assembly does not fit tightly.
- 8) Remove the existing cover to the deflector (aka Bird Wings) and remove the existing deflector.

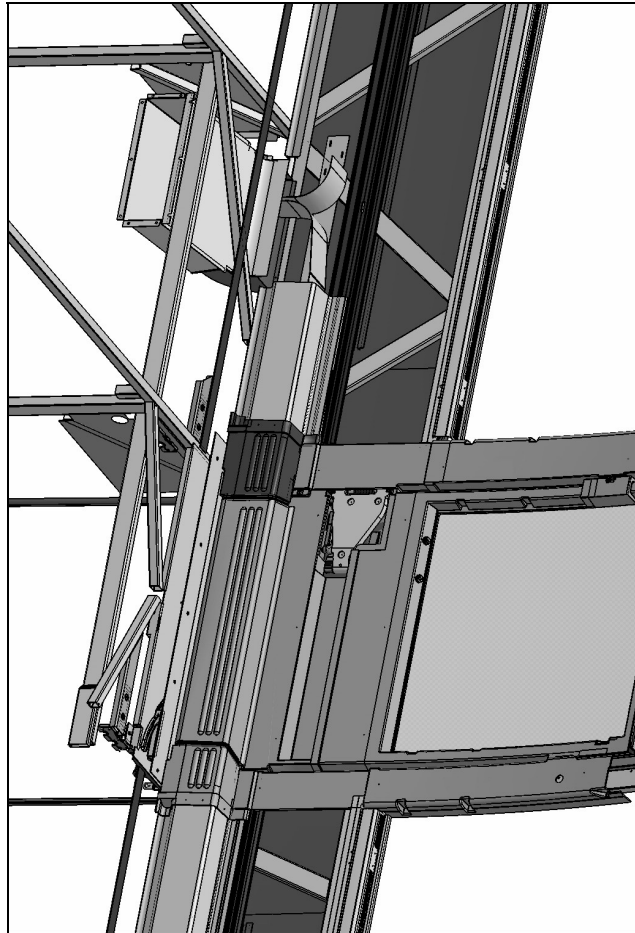


After you remove the existing deflector, install the “new” deflector with a longer rearward wing.



**NOTE**

*It seems to be easier to remove the seat in front of the deflector to gain access to the opening. It also seems easier to install the new deflector with the seat removed.*



- 9) Reinstall the deflector cover and check the air flow to the rear (behind the WCL) windows. After installing this kit the air flow to the window vents behind the WCL appears to be increased enough to satisfy the customer.

**NOTE**

*This "kit" only works on coaches which have the "van" type WCL door. This kit will not work with older coaches that have the hinged type WCL door, there is not enough room to "cut" an opening in the existing floor ducting to increase the air flow.*

**WARRANTY**

This modification is covered by Prevost Car's normal warranty. We will reimburse you the parts and six hours (6.0) of labor upon receipt of a completed A.F.A. form on which you must specify as per "Warranty Bulletin 08-07".

**Parts / Waste disposal:**

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