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ENTRANCE DOOR LIGHT

Prevost vehicles

DESCRIPTION

On the vehicles affected by this bulletin, install a light at the entrance door. This bulletin describes how to install the new entrance door upper molding and the light with its wiring.

MODEL YEARS 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: 2PCG33495EC73 <u>5590</u> , 2PCG33498EC73 <u>5602</u> and From 4RKG33497F973 <u>7001</u> up to 4RKG33491G973 <u>7299</u> incl.	From 2490 up to 2789, incl.

REFER TO PART A OR B		
OPTION	DESCRIPTION	PAGE #
A	INSTALLATION WITHOUT THE APC INSTALLED	2
B	INSTALLATION WITH THE APC INSTALLED	8

MATERIAL NEEDED

Order kit # SP17-314 which includes the following parts:

Part No.	Description	Qty
830008	24V LIGHT (LED)	1
500854	SCR TC BDG PH N500 8-32X3/4	4
3210118	ENTRANCE DOOR UPPER MOULDING	1
062150	ENTRANCE DOOR LIGHT HARNESS	1
563623	SPLICE WITH PLASTIC SHRINKABLE	4

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Other material you may need:

Part No.	Description	Qty
504637	CABLE TIE, NYLON BLACK MIDDLE SIZE	2
682481	HOCKEY TAPE	AS REQ.

NOTE

Material can be obtained through regular channels.

PROCEDURE



DANGER

Park vehicle safely, apply parking brake, stop engine.

OPTION A : INSTALLATION WITHOUT THE APC MODULE INSTALLED



DANGER

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.

1. Remove closing cap (Figure 1).
2. Use a bit driving ratchet to remove the screw behind the mirror (Figure 2).

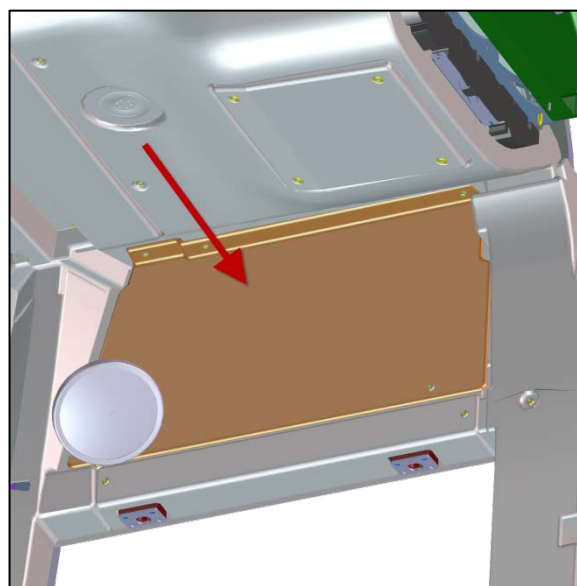


Figure 1

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Figure 2

3. Remove entrance door upper moulding (item 1, Figure 3). This part will be replaced by the new moulding #3210118. Keep screws for the installation of the new moulding.
4. Remove front RH roof access panel (item 2, Figure 3).

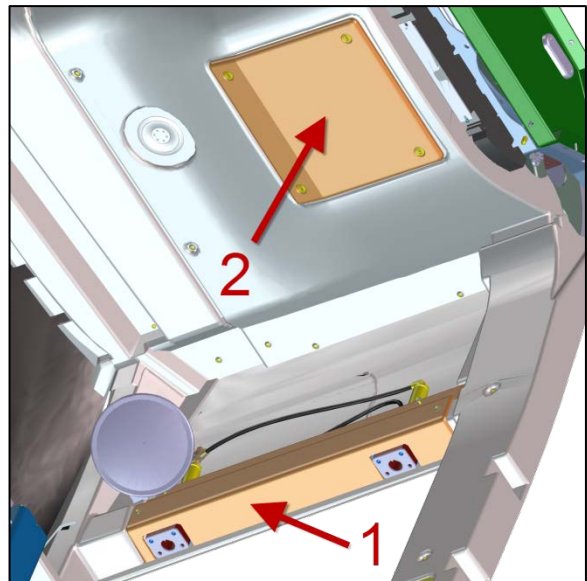


Figure 3

5. Install the new entrance door upper moulding #3210118 (item 1, Figure 4). Do not install screws yet.
6. On the vehicle metal structure, mark up the shape of the moulding cut out (item 2, Figure 4).

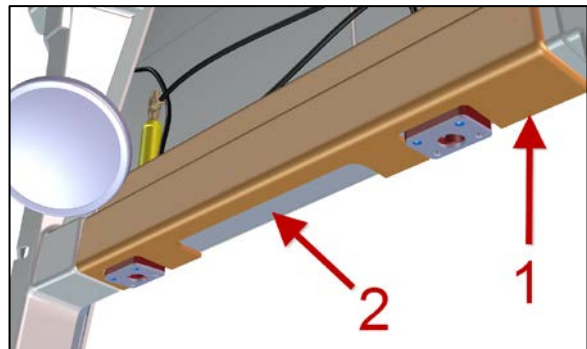


Figure 4

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7. Remove the new entrance door upper molding (item 1, Figure 4). The arrow in Figure 5 shows the projection of the molding opening.

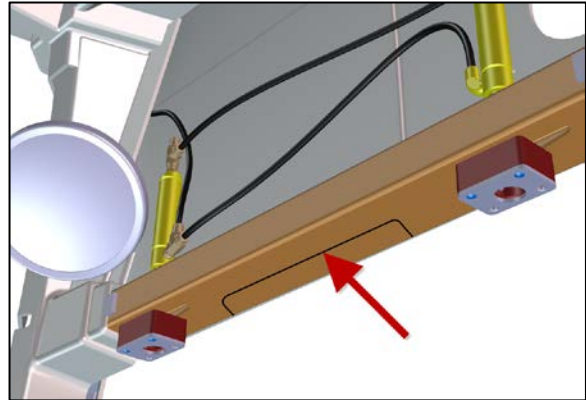


Figure 5

8. Center the entrance door light (Figure 6) with the marks made in step 41.
9. Mark the position of the holes to be drill through the metal structure (Figure 6). These holes will be used to support the light with screws.
10. Drill two holes $\text{Ø}9/64'' \pm 1/64''$ through the vehicle metal structure.

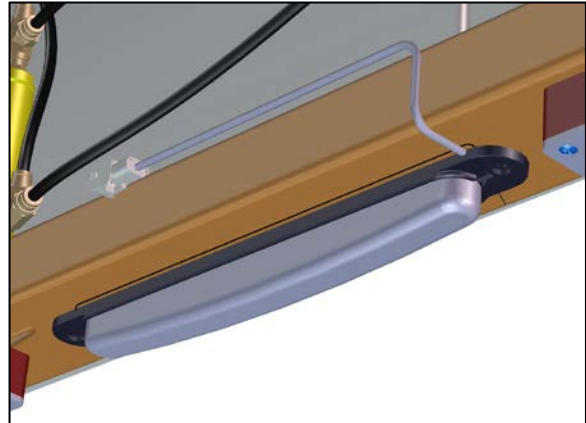


Figure 6

11. Install light #830008 with two screws #500854 (item 1, Figure 7).
12. Install new entrance door upper moulding #3210118 (item 2, Figure 7).

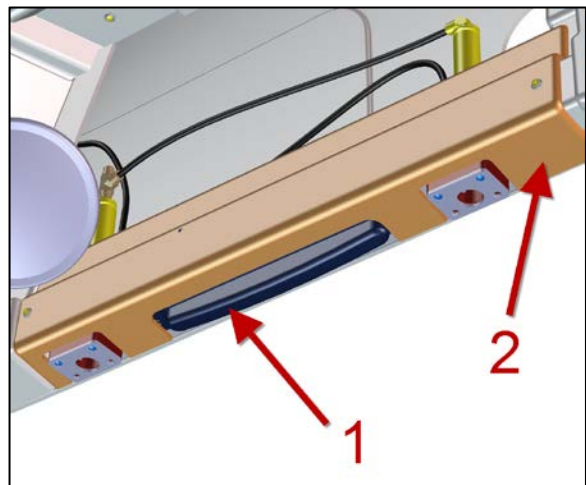


Figure 7

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13. Plug new connector L15 (Figure 8) to the new light connector (Figure 9).
14. Run the other end of the wires to the top of the ceiling. The wires can be pushed up with very little effort and no fish tape is required.



Figure 8



Figure 9

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15. Locate the existing L17 light on the front RH roof (Figure 10).

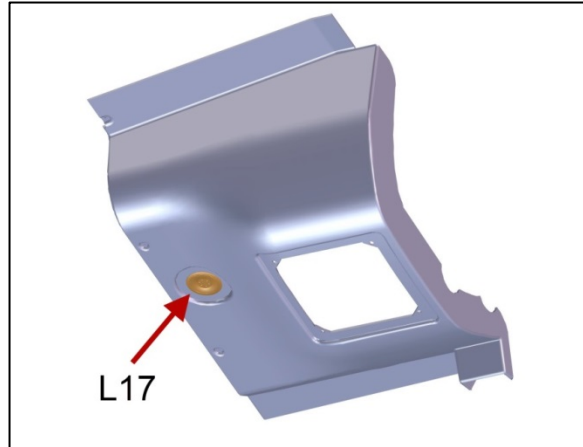


Figure 10

16. Locate wires 35 (orange) and 86ARTN (black) of the existing L17 light inside the front RH roof (Figure 11).

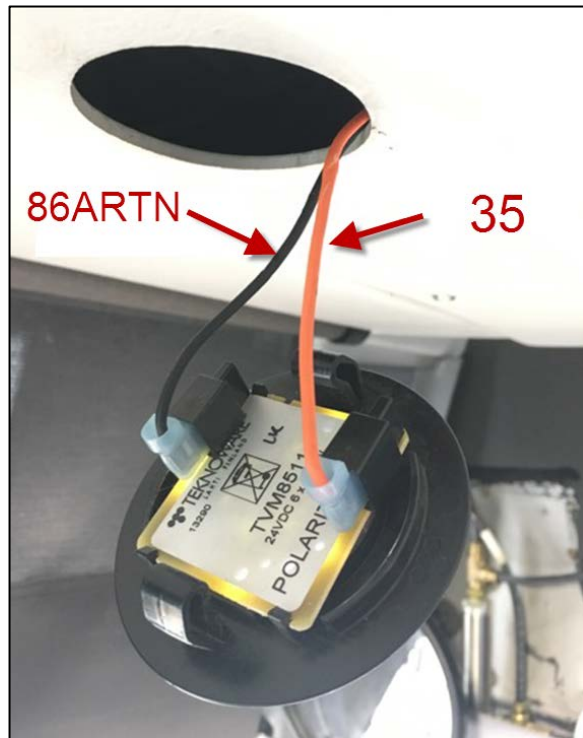


Figure 11

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17. Connect wire 35 of the existing L17 light with the wire 35 of the new L15 light. Splice the wires as shown in the Figure 12.
18. Connect wire 86ARtn of the existing L17 light with the wire 86ARtn of the new L15 light. Splice the wires as shown in the Figure 12.
19. Using the heat gun, fully heat shrink the tube until no more shrinkage is apparent.
20. Check if the new light is working.
21. Tape the wires to the insulation on the side and to the upper side of the ceiling trim to prevent noise. Use hockey tape.

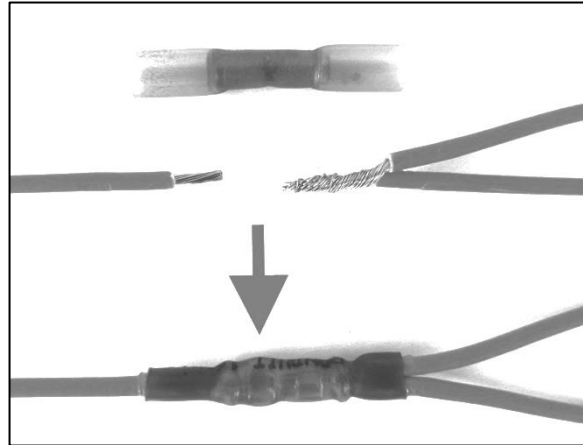


Figure 12

22. Install closing cap (item 1, Figure 13)
23. Install front RH roof access panel (item 2, Figure 13).
24. Bulletin is complete.

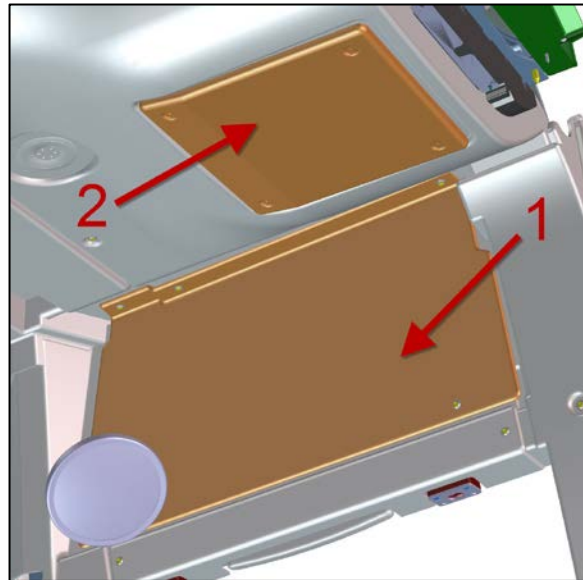


Figure 13

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INSTALLATION WITH THE APC MODULE INSTALLED

25. Locate the APC Control unit into the second section of the driver side overhead compartment.
26. With the ignition at the "ON" position, check if the third green light pointed with an arrow in Figure 14, is flashing.
27. If the third light is flashing, it means that the APC is working well then move to next step. If the third light is not flashing, it means the APC is not working. In that case, refer to the APC supplier to make the APC working and move to next step.

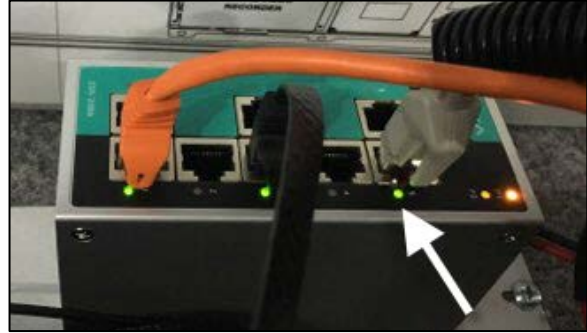


Figure 14



DANGER

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.

28. Release the air from the front door using the front door dump air valve (Figure 15).

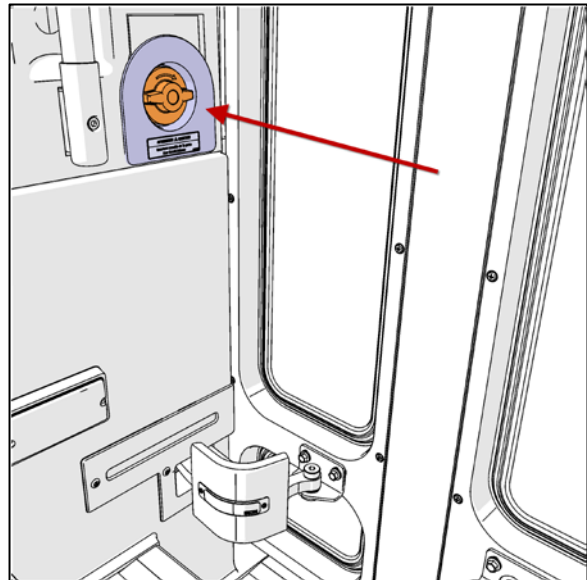


Figure 15

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29. Remove closing cap (Figure 17).
30. Use a bit driving ratchet to remove the screw behind the mirror (Figure 16).



Figure 16

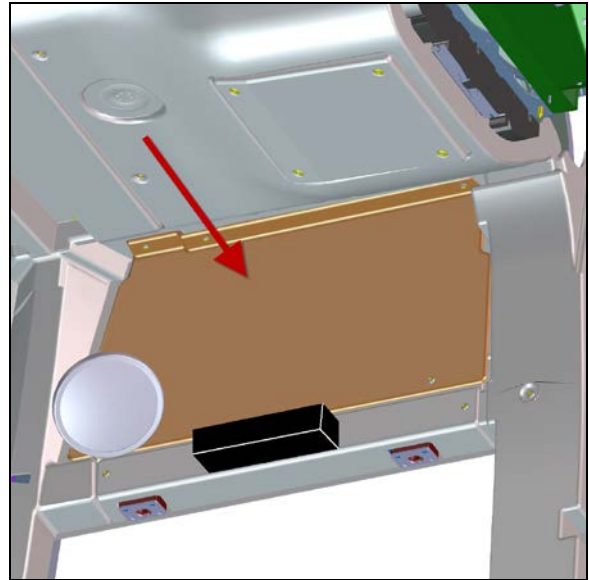


Figure 17

31. Remove front RH roof access panel (Figure 18).

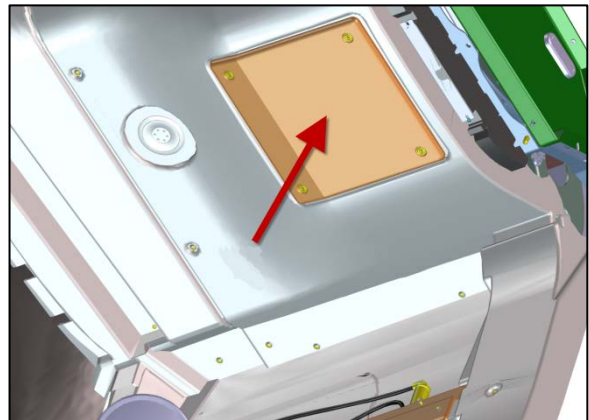


Figure 18

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32. Disconnect the APC electrical wire connectors (item 1, Figure 19).
33. Disconnect the APC coaxial wire connectors (item 2, Figure 19).

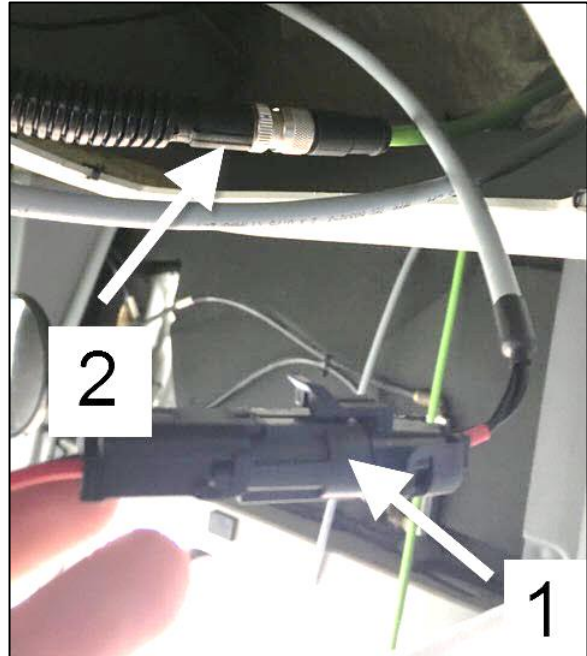


Figure 19

34. Remove entrance door upper moulding (Figure 20). This part will be replaced by the new moulding #3210118. Keep screws for the installation of the new moulding.

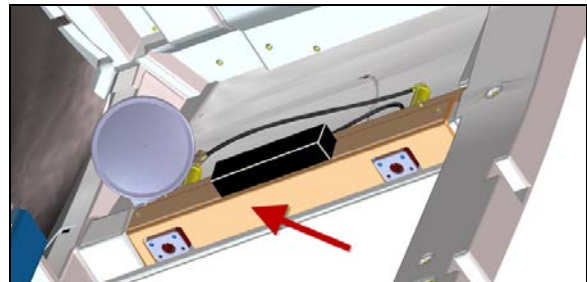


Figure 20

35. Dismount the screws (2) supporting the white panel that supports the APC sensor on the existing entrance door moulding (Figure 21).
36. Disconnect the wiring on the APC sensor.



Figure 21

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37. Remove wires with terminal, on the connector to allow the wires to run thru the hole of the white panel (Figure 22).



Figure 22

38. When removing terminals, lock tangs may become too closed to insure a good lock when reusing. Check all lock tangs on both terminals (Figure 23).

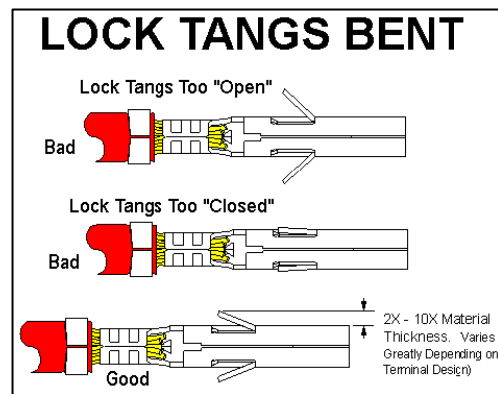


Figure 23

39. If necessary, use a tool (might be the extractor) to open the lock tangs (Figure 24).

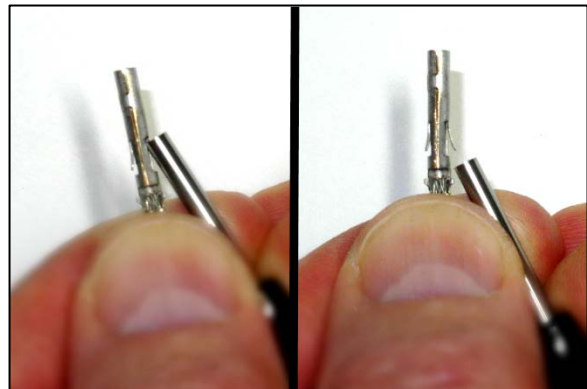


Figure 24

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40. Install the new entrance door upper moulding #3210118 with the screws (2) (item 1, Figure 31).
41. On the vehicle metal structure, mark up the shape of the moulding cut out (item 2, Figure 25).

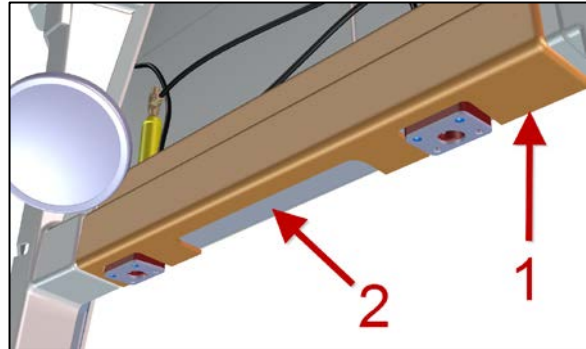


Figure 25

42. Align the drilling template (TA # 96-91-9451) with the new entrance door moulding and using a punch tool mark up the four drilling points (center points) (Figure 26).

NOTE

Refer to document CMO 0080-17 for more information about APC sensor installation.

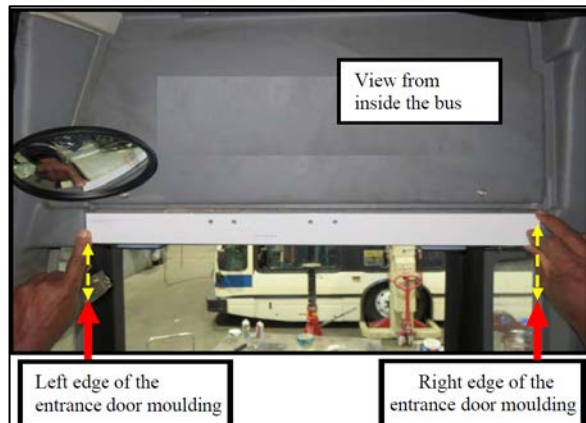


Figure 26

43. Remove the new entrance door upper moulding (item 1, Figure 25). The arrow in Figure 27 shows the projection mark of the moulding cut out.

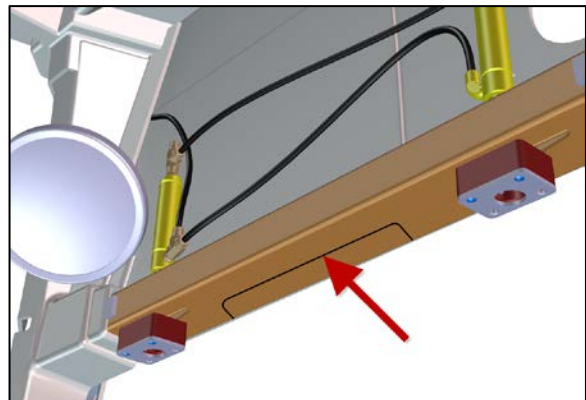


Figure 27

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44. Drill two holes $\varnothing 1/4"$ and two holes $\varnothing 5/8"$ (Figure 28).

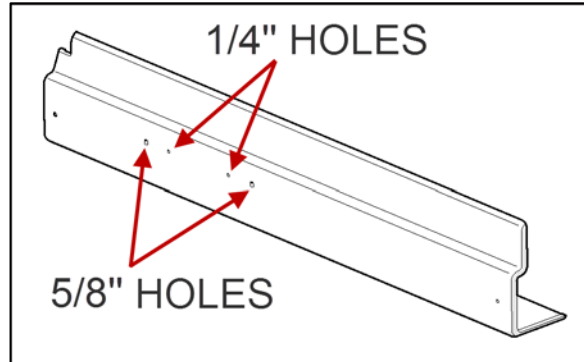


Figure 28

45. Center the entrance door light (Figure 29) with the mark made in step 41.
46. Mark the position of the holes to be drill through the metal structure (Figure 29). These holes will be used to support the light with screws.
47. Drill two holes $\varnothing 9/64"$ $\pm 1/64"$ through the vehicle metal structure.
48. Install light #830008 with two screws #500854 (item 1, Figure 29).

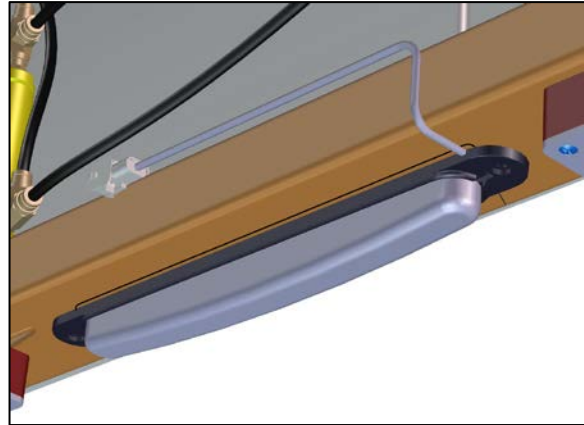


Figure 29

49. Connect the wiring on the APC sensor (Figure 30).
50. Install the APC sensor on the new entrance door moulding (Figure 30).

NOTE

Refer to document CMO 0080-17 for more information about APC sensor installation.



Figure 30

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51. Install new entrance door upper moulding #3210118 (item 2, Figure 31).

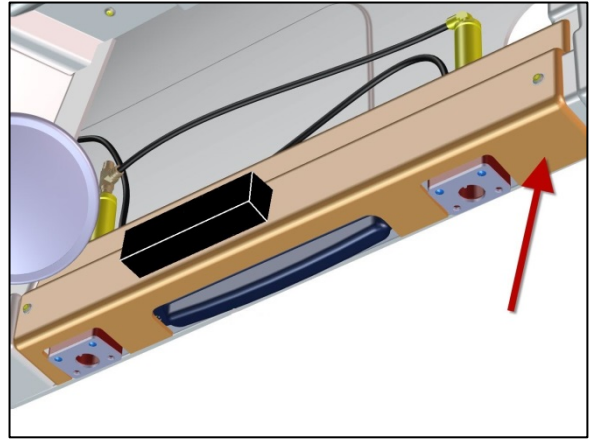


Figure 31

52. Plug new connector L15 (Figure 32) to the new light connector (Figure 33).
53. Run the other end of the wires to the top of the ceiling. The wires can be pushed up with very little effort and no fish tape is required.



Figure 32



Figure 33

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54. Locate the existing L17 light on the front RH roof (Figure 34).

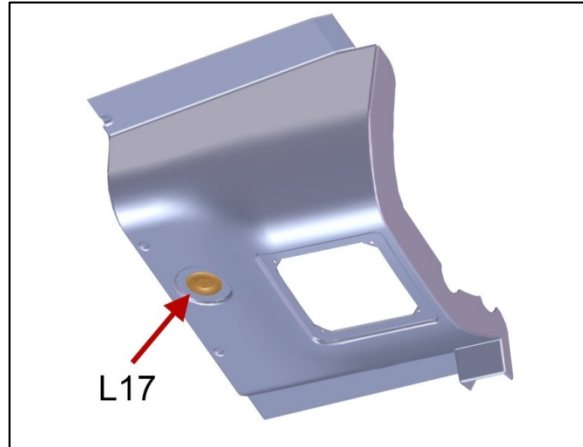


Figure 34

55. Locate wires 35 (orange) and 86ARTN (black) of the existing L17 light inside the front RH roof (Figure 35).

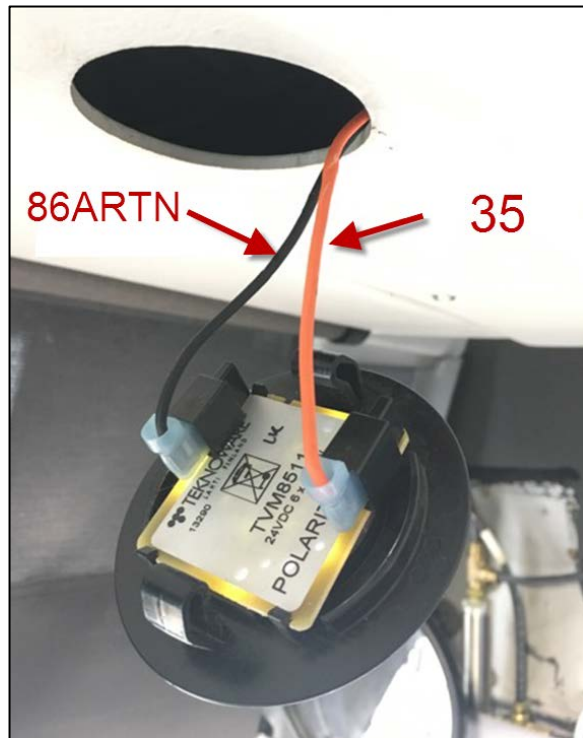


Figure 35

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56. Connect wire 35 of the existing L17 light with the wire 35 of the new L15 light. Splice the wires as shown in the Figure 36.
57. Connect wire 86ARtn of the existing L17 light with the wire 86ARtn of the new L15 light. Splice the wires as shown in the Figure 36.
58. Using the heat gun, fully heat shrink the tube until no more shrinkage is apparent.
59. Check if the new light is working.
60. Tape the wires to the insulation on the side and to the upper side of the ceiling trim to prevent noise. Use hockey tape.

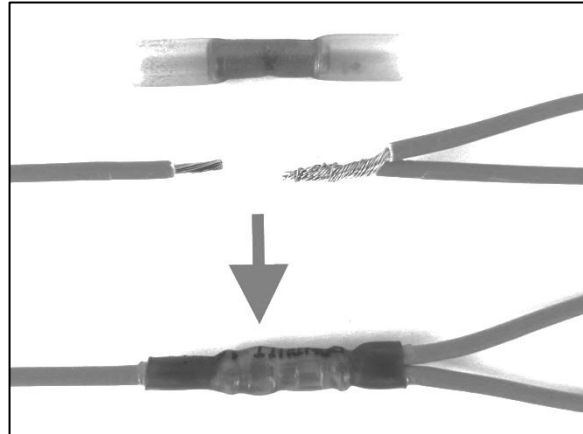


Figure 36

61. Use cable tie to support the connector and wires as shown on Figure 37.



Figure 37

62. Install closing cap (item 1, Figure 38)
63. Install front RH roof access panel (item 2, Figure 38).
64. Into the second section of the driver side overhead compartment and with the ignition at the "ON" position, check if the third green light on the APC control unit is flashing.
65. If the third light is not flashing, check the wiring to make it flashing.
66. Bulletin is complete.

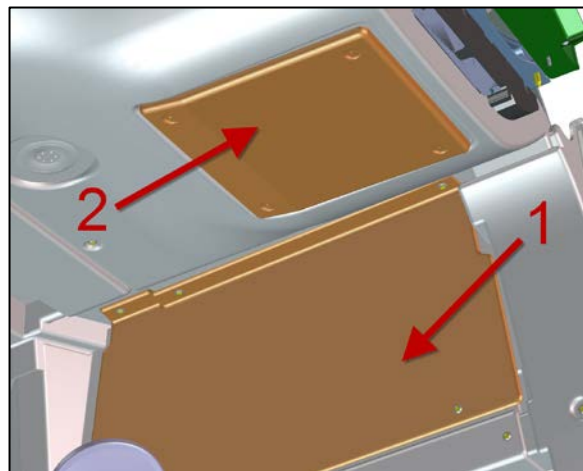


Figure 38

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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 forty five minutes (45 min).

OTHER

VBC Bulletin	N/A
Fail Code	6.15
Defect Code	09
Syst. Cond	B
Causal Part	830008

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