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First Release

2018-06-06

AC COMPRESSOR DISCHARGE HOSE REPLACEMENT

Prevost vehicles

DESCRIPTION

On the vehicles affected by this bulletin, replace the AC compressor discharge hose.

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
X3-45 coaches Model Year : 2017	From 2PCG33491J <u>C736245</u> up to 2PCG33497J <u>C736279</u> incl.
X3-45 coaches Model Years : 2017-2018	From 4RKG33494J <u>9737448</u> up to 4RKG33492J <u>9737481</u> incl.
This bulletin does not necessarily apply to all the above-mentioned vehicles, some vehicles may have been modified before delivery.	

MATERIAL NEEDED

Order SP18-20 that contains the following parts:

Part No.	Description	Qty
950591	Hose assembly, #16, 755 mm (discharge)	1
501802	O-ring/ORS fitting/#16 NEO Model B-40,M-40	1
950957	Gasket	1

NOTE

This bulletin only applies to the AC compressor discharge hose replacement. Any other AC system problems should be treated separately.

NOTE

Material can be obtained through regular channels.

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PROCEDURE



DANGER

Park vehicle safely, apply the parking brake, stop the engine. Before working on the vehicle, set the ignition switch to the OFF position and trip the main circuit breakers equipped with a trip button.

IMPORTANT NOTE

Anyone who maintains, services, or repairs motor vehicle air conditioners for of any kind must be properly certified. Check the regulation applicable and make sure that the technician is certified before proceeding with this bulletin.

1. Locate the evaporator compartment (Figure 1).

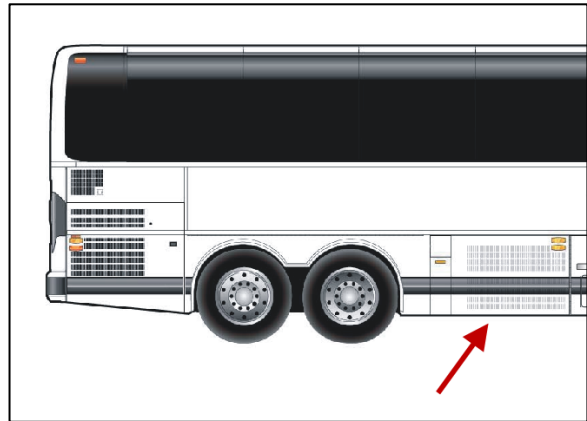


Figure 1

2. Into the evaporator compartment, locate the C24 pin connector with the plug and the C24 socket connector with the plug.
3. Remove the plug on both connectors and keep it in a safe place (Figure 2).
4. Connect the C24 pin connector with the C24 socket connector.



Figure 2

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5. Locate the front service compartment (Figure 3).

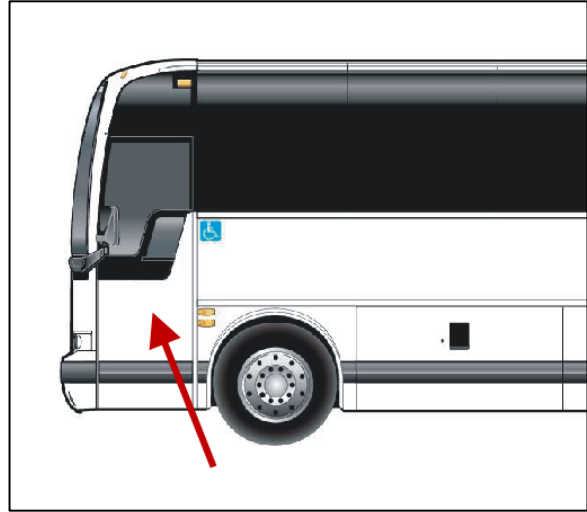


Figure 3

6. Into the front service compartment, locate the C44 pin connector with the plug and the C44 socket connector with the plug.
7. Remove the plug on both connectors and keep it in a safe place (Figure 4).
8. Connect the C44 pin connector with the C44 socket connector.



Figure 4

9. Remove all refrigerant (ref. PR10188-83 and PR10114-271).

NOTE

Both compressor shut-off valves must be half-opened when removing the entire refrigerant.

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10. Locate the existing AC compressor discharge hose into the engine compartment (Figure 5).



Figure 5

11. Remove the existing the AC compressor discharge hose, flange gasket and the hose collar on the toilet tube (Figure 6).
12. Discard all these parts.



Figure 6

13. Clean compressor flange mounting face and hose flange mounting face with brake cleaner.
14. Lubricate the new flange gasket (#950957) with AC compressor oil.
15. Install the flange side of the new hose with the screws and the new gasket. Do not tighten the screws (Figure 7).

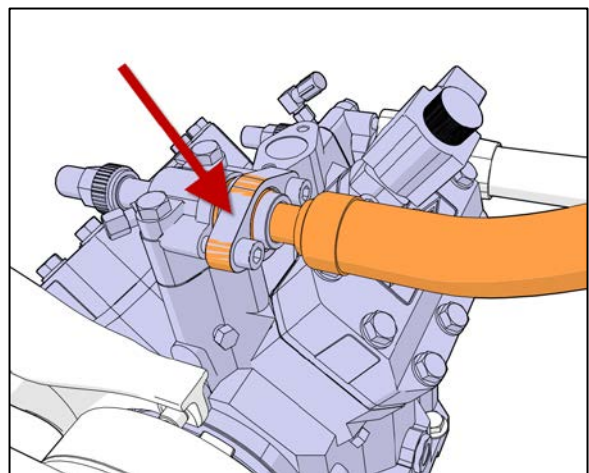


Figure 7

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16. Remove existing O-ring on the top tube fitting (Figure 8).
17. Clean all fittings with brake cleaner.
18. Lubricate the new O-ring (#501802) with AC compressor oil.
19. Install the new O-ring on the top tube fitting (Figure 8).



Figure 8

20. Install top end fitting of the AC compressor discharge hose on the top tube fitting. Tighten the hose top end fitting (Figure 11).

IMPORTANT NOTE

When tightening, orientate the hose elbow (Figure 11) to make sure keeping a minimum of 1" (25 mm) of clearance with all other components surrounding the new hose (Figure 9, Figure 10 and Figure 12).

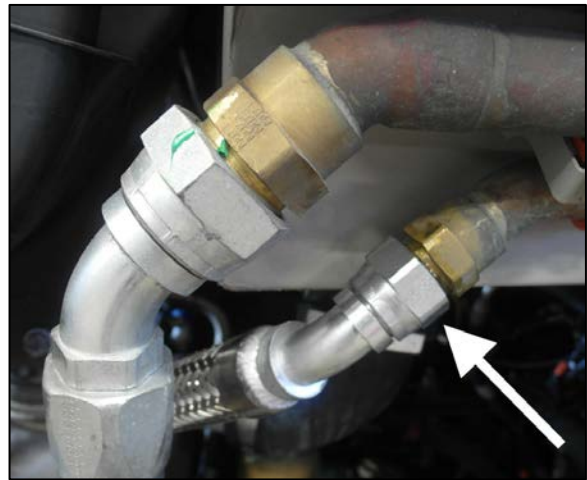


Figure 11

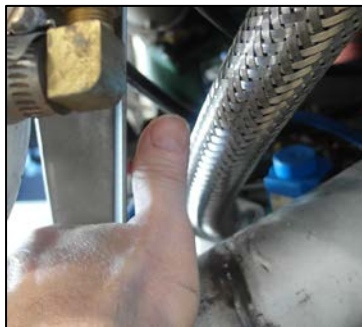


Figure 9

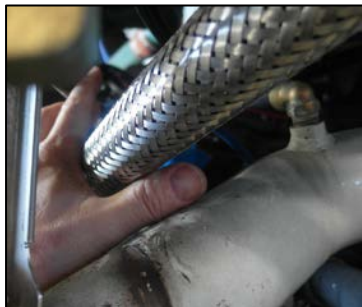


Figure 10



Figure 12

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21. Remove the torque seal marks on all fittings and add new marks (Figure 13).

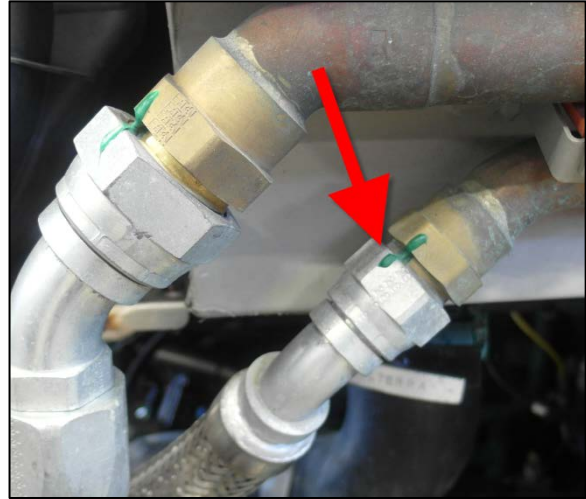


Figure 13

22. Torque flange screws to 31-35 lb-ft (42-47 Nm) (Figure 14).
23. Remove torque seal marks on both screws and add new marks on both screws.

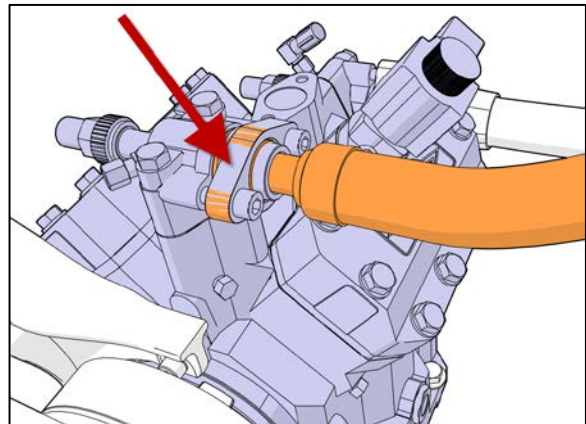


Figure 14

24. Perform a pressure test and check if the new hose is leaking (ref. PR10114-212). If apply, fix the leaking.

NOTE

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25. Perform a vacuum test (ref. PR.10114-268).
26. Fill the system with the refrigerant (ref. PR10114-264).

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27. Into the evaporator compartment, disconnect the C24 pin connector with the C24 socket connector.
28. Install the corresponding plug on both connectors (see step 3).
29. Use cable ties to fix the connectors with the cable tie holder (Figure 15).



Figure 15

30. Into the front service compartment, disconnect the C44 pin connector with the C44 socket connector.
31. Install the corresponding plug on both connectors (see step 7).
32. Use cable ties to fix the connectors with existing wiring (Figure 16).
33. Bulletin is complete.

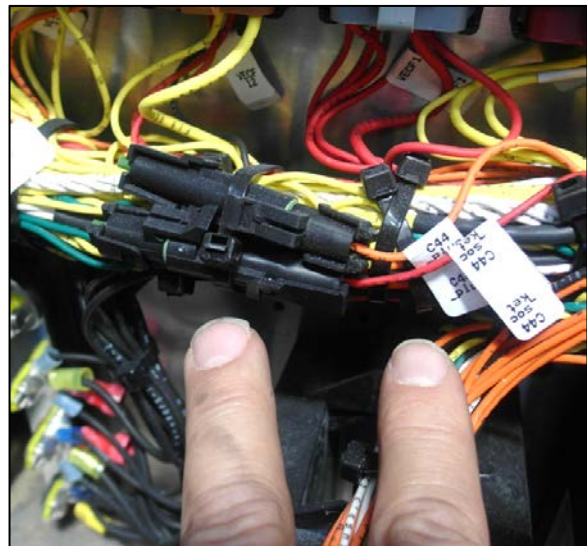


Figure 16

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PARTS / WASTE DISPOSAL

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

ESTIMATED TIME

The effective time required for the technician to perform this special bulletin is approximately 3h00.

OTHER

VBC Bulletin	N/A
Fail Code	22.06
Defect Code	09
Syst. Cond	B
Causal Part	950536

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