



Service Bulletin No. 2914B

MODEL	D Series Coaches with EGR engine	TYPE	Service Information	SECTION/GROUP	4 – Air System	DATE	Oct. 25, 2005
SUBJECT	AIR SYSTEM CLOGGING						
CONDITIONS	Parts may be purchased from MCI Service Parts, Louisville, Kentucky or from MCI Service Parts, Newcastle, Ontario.						

Description:

MCI is releasing the following service information bulletin on air system clogging. The build-up of carbon in the coach air system may lead to slow air pressure build-up time.

Customers should inspect the compressor discharge port, inlet cavity and discharge line for evidence of restrictions and carboning every 6 months, 50,000 miles or 1500 operating hours (whichever service interval occurs first). If buildup is noted, thoroughly clean or replace the affected parts and closely inspect the compressor cooling system.

Parts may be purchased from Lowe's Home Improvement Store or equivalent.

Qty.	New P/N	Description
1	04-07-1033	Field Kit - D4500 Carbon Removal <i>Kit Contents are:</i>
1	04-07-1024	R6S Utility Sump Pump, 3/4" Outlet
1	04-07-1025	Clear Filter Canister, 5 to 10 Micron Filter, 3/4" Inlet and Outlet
1	04-07-1026	Hose, Nylon, 3/4" x 70 ft.
1	04-07-1027	Ball Valve, 3/4" NPT
1	04-07-1028	Glove, Chemical Resistant
1	04-07-1034	Ball Valve, 1" NPT
2	04-07-1035	Fitting, Nylon, 3/4" Barb x 3/4" NPT Male
1	04-07-1036	Elbow, 90 Degree, 3/4" NPT Female
1	04-07-1037	Tube, Drain, 3/4" NPT Male, 4"
1	04-07-1038	Reducer, 1" NPT Male x 3/4" NPT Male
2	04-07-1039	Coupling, 3/4" NPT
3	04-07-1040	Clamp, Hose, 3/4" ID
1	04-07-1042	Fitting, Nylon, 3/4" Barb x 1" NPT Female
1	19-10-883	Coupling
8 Gal.	04-07-1023	Zep Formula 50, Degreaser, Heavy Duty, Prod. # 0859
1	04-07-1041	Elbow, 90 Degree, 1/2" NPT Male x 3/4" NPT Female (D4500 coach)
1	19-10-2567	Fitting, ORB 10 x JIC 12 x STR
1	4L-20-625	Hose Assembly, Discharge (D4000 coach)
1	4L-20-626	Hose Assembly, Discharge (D4500 coach)
1		Tub, 15 Gallon



NOTE

Prior to handling, read and follow all Material Safety Data Sheet information on the Zep Formula 50 heavy duty degreaser.

Service Procedure:

General notes

Read this entire procedure before beginning work.

Use Safe Shop Practices At All Times.

1. Turn the main battery disconnect switch to the OFF position.
2. On a workbench, connect the 1 inch ball valve (p/n 04-07-1034) to the sump pump (p/n 04-07-1024). Cut the nylon hose (p/n 04-07-1026) in half. Connect the nylon hose to the ball valve using a reducer (p/n 04-07-1038). Insert a barb fitting (p/n 04-07-1035) into the opposite end of the hose. Secure barb fitting with a hose clamp (p/n 04-07-1040) (Figure 1).
3. Connect the $\frac{3}{4}$ " ball valve (p/n 04-07-1027) to the coupling (p/n 04-07-1039). Connect coupling, with ball ball valve, to the inlet side of the filter (p/n 04-07-1025). Insert a barb fitting (p/n 04-07-1035) in the end of the hose. Secure with a hose clamp (p/n 04-07-1040). Install barb fitting, with hose, into the $\frac{3}{4}$ " ball valve. Connect coupling (p/n 04-07-1039) to the outlet side of the filter. Connect elbow (p/n 04-07-1036) and drain tube (p/n 04-07-1037) to coupling (Figure 1).



Figure 1.

4. Place the sump pump and the filter into a 15 gallon tub.

5. Disconnect air compressor discharge line at the ping tank. Remove and retain the fitting. Connect the $\frac{3}{4}$ " nylon hose from the sump pump outlet to the ping tank (Figure 2).



NOTE

D4500 coaches require a 90 degree elbow (p/n 04-07-1041) installed on the ping tank, prior to $\frac{3}{4}$ " nylon hose from the sump pump outlet connecting to the ping tank.

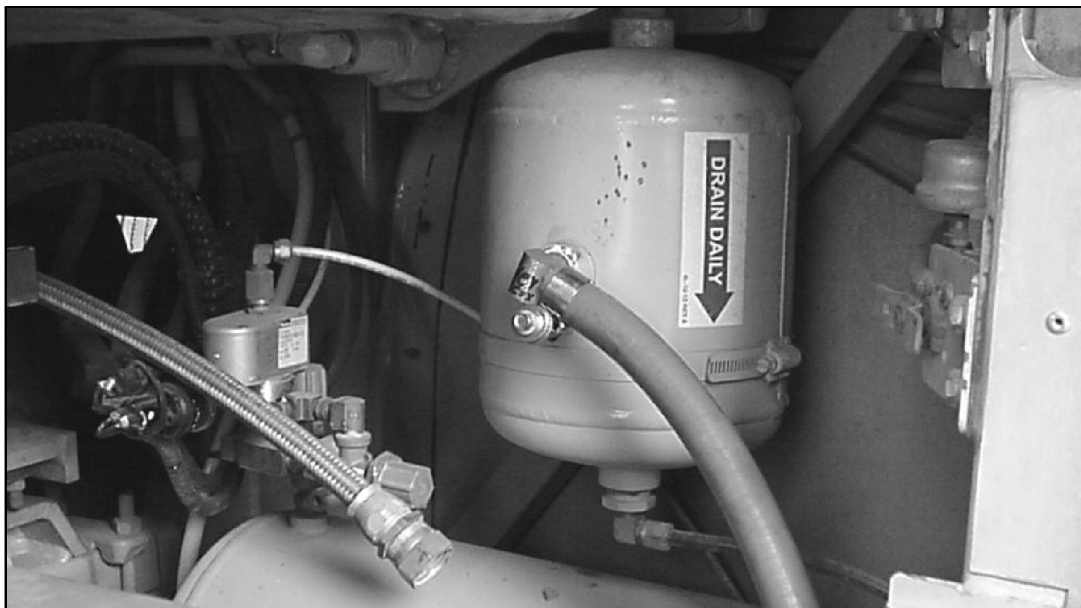


Figure 2. Reference photo.

6. Disconnect the main coach air line at the air dryer inlet. Remove and retain the fitting (1" bushing). Install a coupling (p/n 19-10-883) and fitting (p/n 04-07-1042). Slide the $\frac{3}{4}$ " nylon hose from the filter over the barbed end of the fitting. Secure with a hose clamp (p/n 04-07-1040).

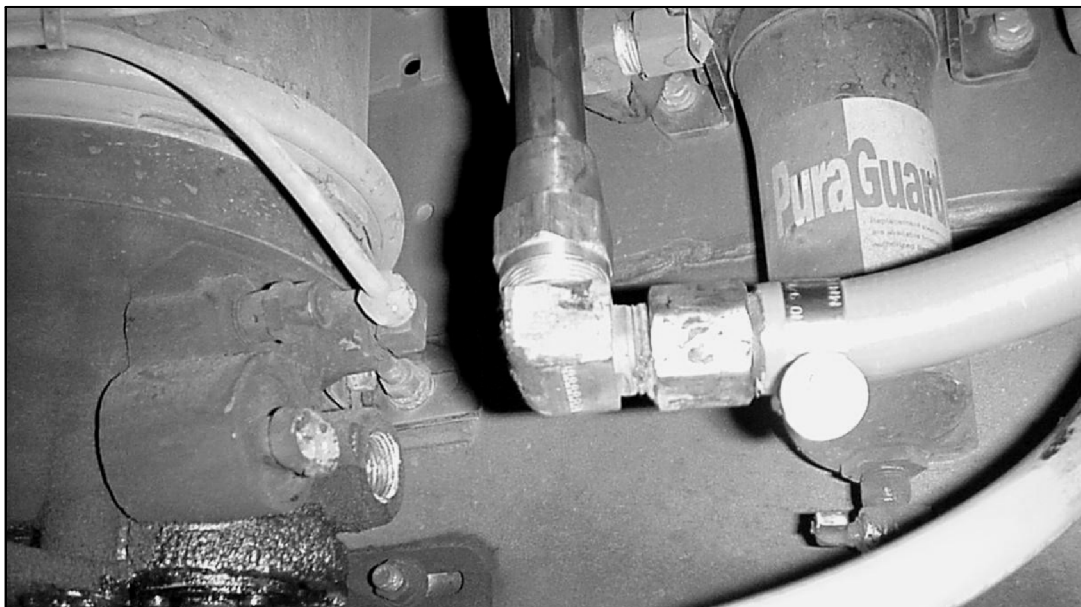


Figure 3. Reference photo.



WARNING

Ensure that the personal protection items outlined in the Material Safety Data Sheets are used when handling and disposing this product.

7. Pour approximately 8 gallons of the heavy duty degreaser (p/n 04-07-1023) into the tub.



NOTE

Do not dilute the degreaser.

8. Partially close the ball valve on the pump output.
9. Start the pump and check all connections for leaks. Repair any leaks as necessary.
10. Fully open the ball valve on the pump output.
11. Run the pump for 3 hours then shut off pump.
12. Disconnect the degreaser lines.



NOTE

As outlined in the Material Safety Data Sheets for Zep Formula 50, dispose of waste in accordance with federal, state and local environmental control regulations for hazardous waste.

13. Pour approximately 5 gallons of fresh water into another tub. Run the sump pump for approximately 5 minutes or until the water runs clear to flush de-greaser from main coach air line.
14. Dry out the main coach air line and the air compressor discharge line using shop air connected to the ping tank. Run the air until mist no longer forms at the air dryer side of the main coach air line.
15. Drain and inspect the ping tank.
16. Inspect the air dryer. If any part other than the desiccant has carbon build-up, replace the air dryer. If the air dryer is in good condition, replace the desiccant.
17. Remove and discard the discharge line.
18. On D4000 model coaches, install new discharge line (p/n 4L-20-625) and fitting (p/n 19-10-2567). On D4500 model coaches, install new discharge line (p/n 4L-20-626) and fitting (p/n 19-10-2567).
19. Re-connect the bushing in the air dryer, removed in Step 6.
20. Re-connect the original lines.
21. Test the air system for leaks. Repair as necessary.

Procedure complete.