

Emissions Recall

Subject: Fuel System Hose Replacement MDT Dual Fuel Tanks

Date: 03-03-2009

Bulletin: R0031

Campaign #: A6280

Affected Models: 2008-2009 ND8J (238), NE8J (268), NJ8J (268A), NV8J (338)

Important: Verify on the Hino DCS Warranty System that the vehicle still needs to have this work performed.

Description:

This bulletin includes the instructions for the replacement of the fuel system hoses on MDT vehicles equipped with dual fuel tanks.

Condition:

Abnormal noise and vibration within the engine occurs due to the impeded operation of the injector needle which is caused by the formation of deposits in the fuel. The deposit formation occurs when metallic compounds, which are a part of the synthetic rubber hose material, are extracted from the synthetic rubber by naturally occurring solvents in the fuel. These metallic compounds are combined with abnormally high fuel temperature. The abnormally high fuel temperature is created due to air, which effuses from the fuel filter and is compressed in the supply pump to form the deposit. This deposit accumulates on the fuel injector needle and impedes the needle movement which causes abnormal post injection timing to occur. The abnormal post injection timing causes the abnormal noise and vibration of the engine.

Subject Vehicles:

Certain 2008 and 2009 model year ND8J (238), NE8J (268), NJ8J (268A), and NV8J (338) Hino conventional trucks assembled at the Long Beach, CA. and Williamstown, WV assembly plants.

Before You Begin:

Read and understand all instructions and procedures before you begin. Read and observe all Caution and Warning safety alerts that precede these instructions while following these procedures. The alerts help to avoid damage to components, serious personal injury, or both.

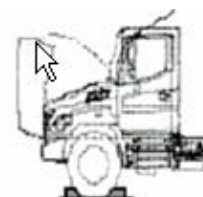


Once Recall is completed

Fill out the Recall Completion sticker as shown in the picture to the left. This sticker should be attached to the left door jam above the V.I.N. decal.

!!! WARNING !!!

*Park the vehicle on a flat and level surface.
Apply the parking brake.
Shift transmission to NEUTRAL.
Block the wheels to prevent the vehicle from moving.
Use care when working around surfaces which may be hot.
Wear safety glasses to prevent eye injuries.
Use a suitable container for diesel fuel when draining the filter assembly.
Dispose of diesel fuel in a manner that is pursuant to local regulations.*



Required Parts:

Kit Part Number	Description	Quantity	Note	
S040010574	Fuel Hose Kit, MDT Dual Tank	1	52 gallon tanks	
	Kit Contents	Qty. Per Kit	Ref. #	Note
	Hose	1	①	SZ95061935
	Hose	1	②	SZ95061927
	Hose	2	③	SZ95061937
	Hose	1	④	SZ95061928
	Hose	1	⑤	SZ95061930
	Clip, Hose	8	⑥	SZ46612006
	Clip, Hose	4	⑦	SZ46621002
	Clamp	7	⑧	SZ46915002
	Clamp	8	⑨	S473611820
	Clamp	2	⑩	S827111610
	Clamp	1	⑪	S473611400

Campaign = A6280 MDT

Initial stock of campaign parts will be shipped to each dealer. The campaign number will be used as the purchase order: A6280 MDT Dual Fuel Tanks.

Removing The Fuel Hoses:

1. Drain the fuel from the filter assembly into a suitable container.

Close the drain valve once the filter assembly is empty.

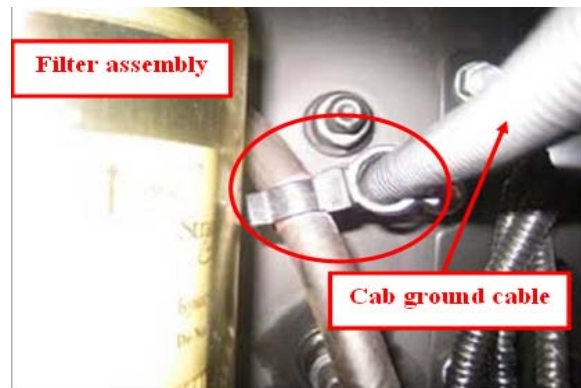


2. Disconnect the inlet and outlet hoses from the filter assembly.

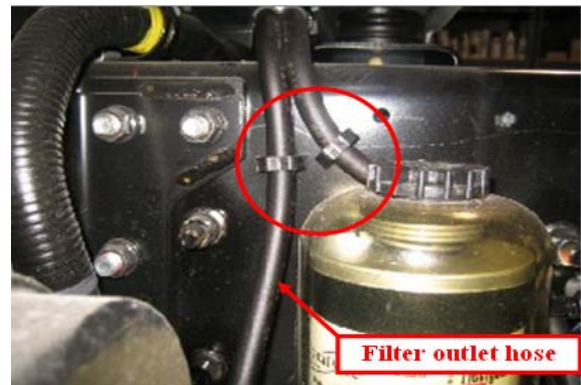
Allow hoses to drain into a suitable container.



3. Remove and discard the clamp securing the inlet hose at the rear of the filter assembly to the cab ground cable.



4. Remove and discard the clamps securing the feed hoses to the outside of the left side-rail.



5. Remove the clamp securing the feed hoses to the top of the left side-rail located just above the filter assembly.



6. Disconnect the feed hose from the pipe assembly.

Discard the hose.



7. Remove the top step to gain access to the hose on the top of the right side fuel tank.

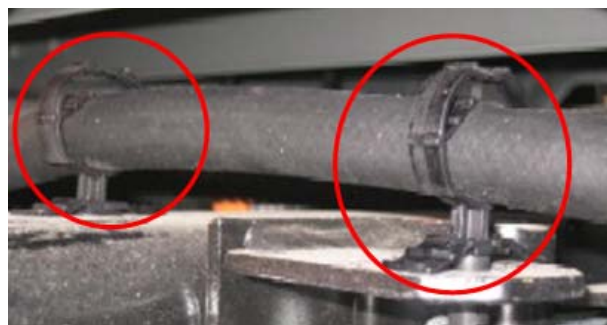
NOTE: Open the passenger side door to allow full access to the bolts.



8. Disconnect the feed hose from the right side fuel tank.



9. Remove and discard the clamps securing the fuel hose to the top of the right side-rail.



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- 10.** Disconnect the feed and return hoses from the left side fuel tank.

Allow the hoses to drain into a suitable container.



- 11.** Remove the four clamps from the brackets on the left side-rail.



- 12.** Disconnect the feed and return hoses from the pipe assembly.

Discard hoses.



- 13.** Disconnect the feed and return hoses from the pipes located at the rear of the engine.



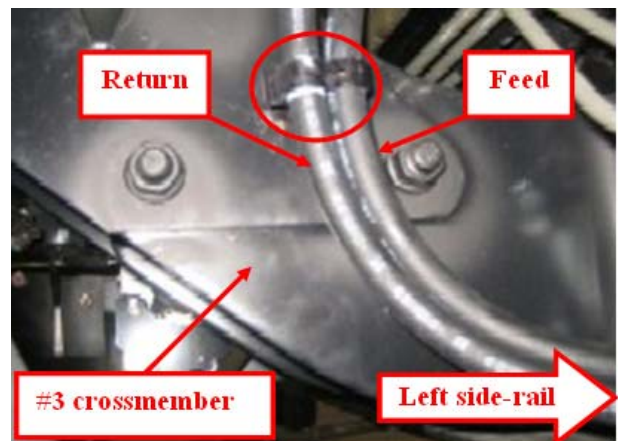
14. Remove the five clamps that secure the fuel hoses to the left side-rail.



15. Remove the hose clamp that secures the fuel hoses to the left front side of the #3 crossmember.

Discard the feed hose.

NOTE: The #3 crossmember is located under the rear of the cab.

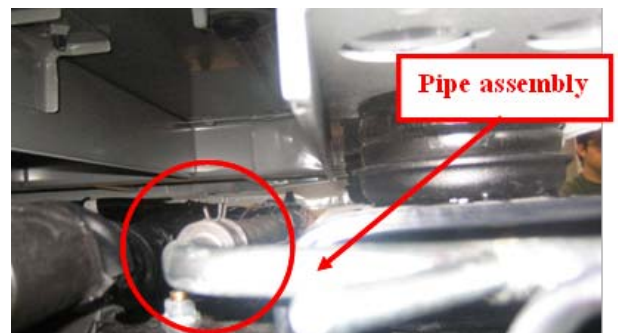


16. Disconnect the engine return hose at the pipe assembly under the left rear side of the cab.

Discard the return hose.



17. Disconnect the feed hose from the pipe assembly.



18. Remove and discard the two clamps securing the fuel hoses to the #3 crossmember brackets.

Discard the feed hose.

Fuel Hose Installation:

Note: Do not reuse any hoses, clips, or clamps.

The hoses have brightly colored paint stripes and paint dots that indicate the hose's function.

Blue dot = Hose installation starting point

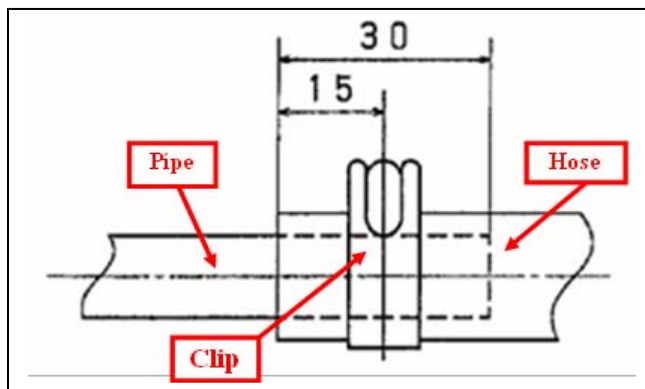
Pink dot = Feed hose

White dot = Return hose

Pink stripe = Feed hose clamp location

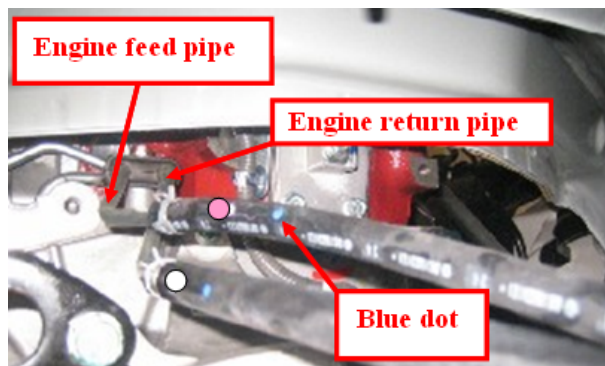
White stripe = Return hose clamp location.

Note: Once connected, the end of the hose must be 30 mm past the end of the pipe. The clip must be 15 mm from the end of the hose.



19. Connect the blue dot end of the feed hose ① with a clip onto the engine feed pipe.

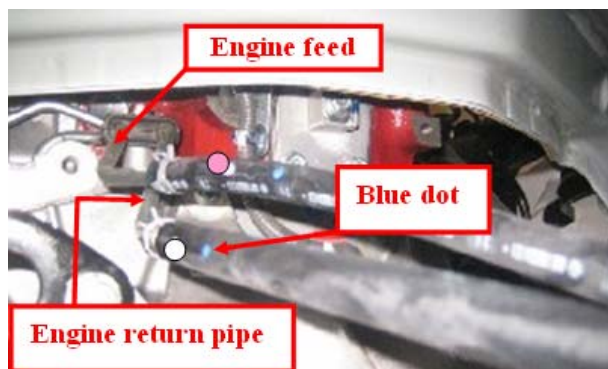
NOTE: The blue dot end of this hose must be installed to the engine feed pipe to ensure proper hose clamp location. The correct location of all clamps will be confirmed at the end of this procedure.



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20. Connect the blue dot end of the return hose ⑤ with a clip onto the engine return pipe.

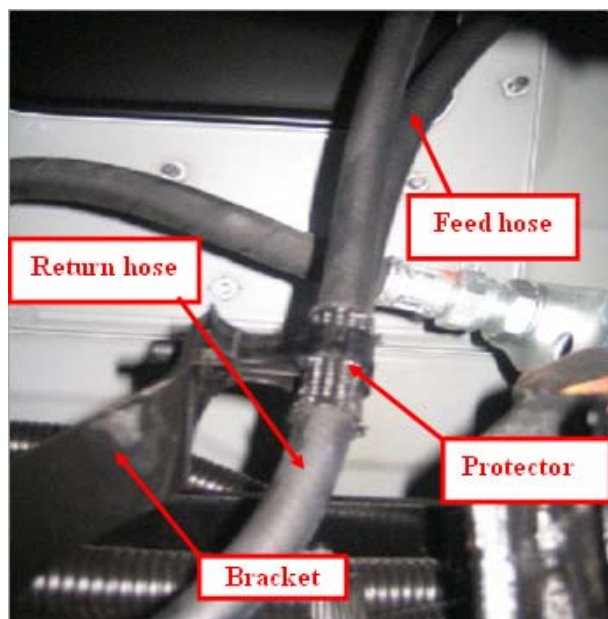
NOTE: The blue dot end of this hose must be installed to the engine return pipe to ensure proper hose clamp location. The correct location of all clamps will be confirmed at the end of this procedure.



21. Secure both hoses with a clamp ⑧ to the left side-rail bracket.

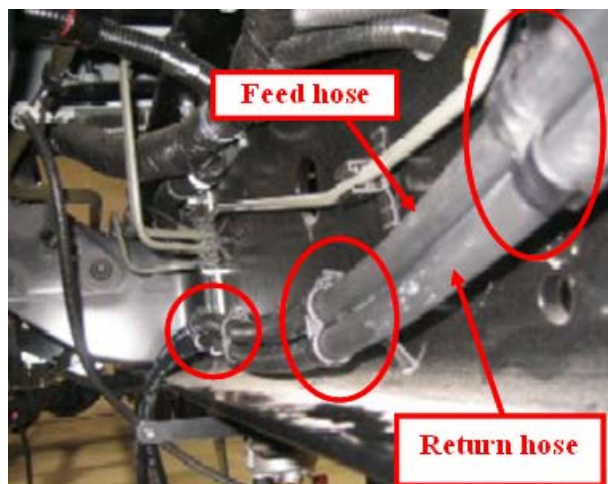
The protector on both hoses must be inside the clamp.

NOTE: Position the hoses as shown in the picture.



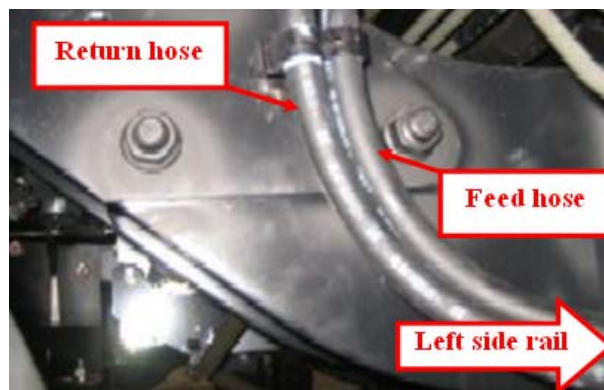
22. Secure both hoses to the left side-rail with four clamps ⑧.

NOTE: Position the hoses as shown in the picture.

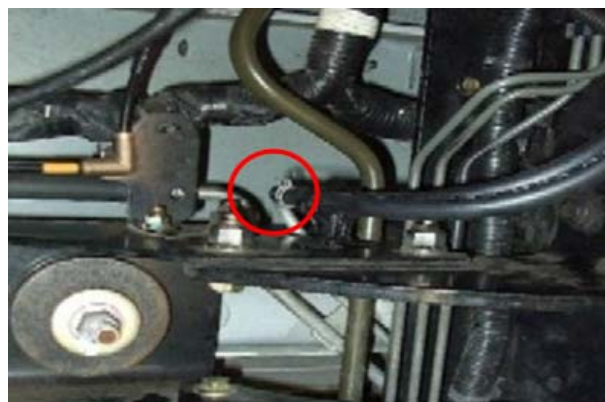


23. Secure both hoses with a clamp ⑧ to the front left side of the #3 crossmember.

NOTE: Position the hoses as shown in the picture.



24. Connect the engine return hose at the pipe assembly under the left rear side of the cab.



25. Secure the feed hose ① with a clamp ⑩ to the outside of the left side-rail.



26. Connect the feed hose ① with a clip to the outlet side of the filter assembly.



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27. Connect the blue dot end of the feed hose ② with a clip to the inlet of the filter assembly.

NOTE: The blue dot end of this hose must be installed to the filter assembly inlet to ensure proper hose clamp location. The correct location of all clamps will be confirmed at the end of this procedure.



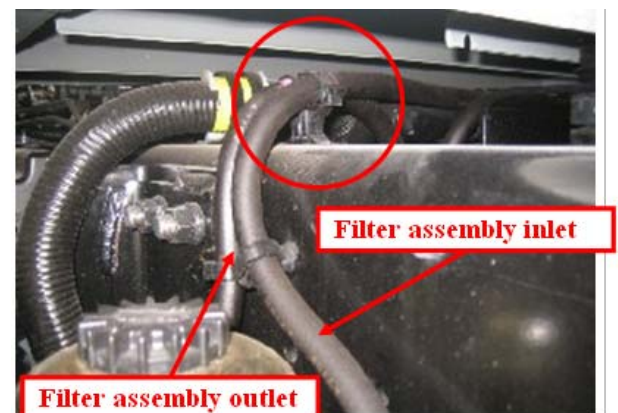
28. Secure the feed hose ② with a clamp ⑪ to the cab ground cable.



29. Secure the feed hose ② with a clamp ⑩ to the outside of the left side-rail.



30. Secure the feed hoses to the top of the left side-rail with a clamp ⑧.



31. Connect the feed hose ② onto the pipe assembly with a clip.



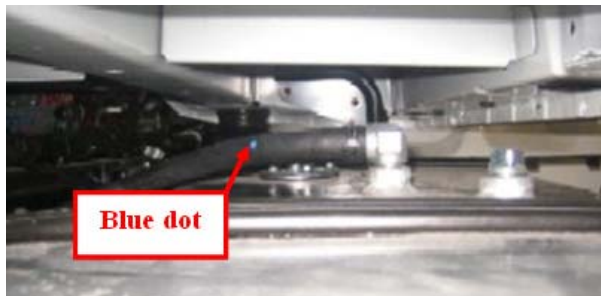
32. Connect the feed hose ③ and return hose ④ with clips to the pipe assembly and fuel tank.



33. Secure the feed hose ③ and return hose ④ with four clamps ⑨ to the left side-rail brackets

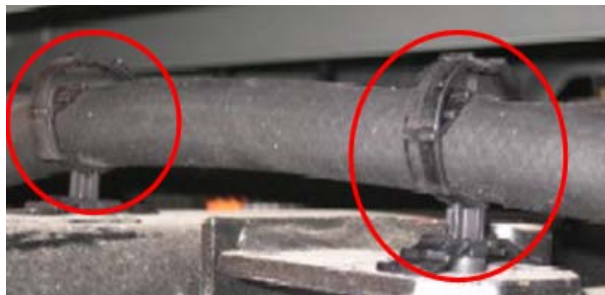


34. Connect the blue dot end of the feed hose ③ with a clip to the right side fuel tank.



NOTE: The blue dot end of this hose must be installed to the right side fuel tank to ensure proper hose clamp location. The correct location of all clamps will be confirmed at the end of this procedure.

- 35.** Secure the feed hose ③ with a clamp ⑨ to the right side fuel tank strap bracket and the right side-rail.



- 36.** Secure the feed hose ③ with two clamps ⑨ to the #3 crossmember.



- 37.** Connect the feed hose ③ with a clip to the pipe assembly.



- 38.** Install the top step with the four bolts.

Torque the bolts to the specified torque.

Specified Torque: 32 ft. lbs. (43 Nm)



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39. Bleed the air from the fuel system.

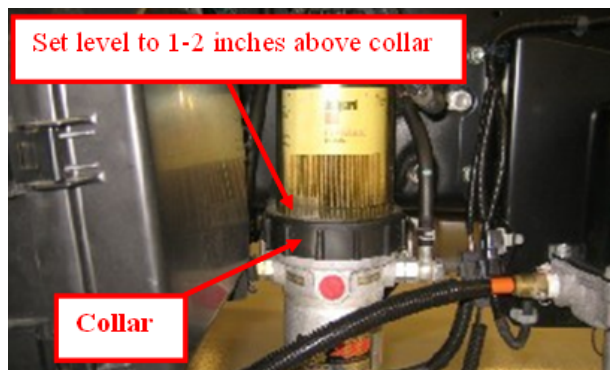
- A) Remove the vent cap from the filter assembly.
- B) Fill the filter assembly with clean diesel fuel.
- C) Install the vent cap.

40. Start and idle the engine for three minutes (restart the engine if it stalls).

41. With the engine still running, adjust the fuel level.

- A) Loosen the vent cap.
- B) Allow the fuel level to drop to one to two inches above the collar of the filter assembly.
- C) Quickly tighten the vent cap.

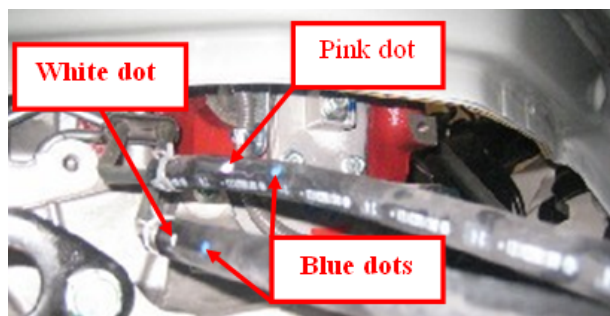
42. Check all previously open fuel system connections for leaks.



Confirmation:

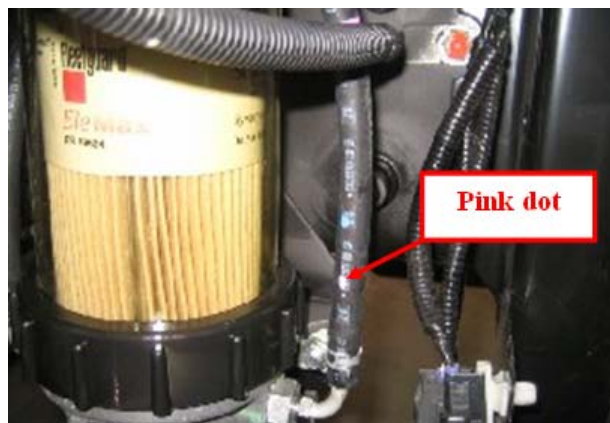
43. Inspect the feed ① and return ⑤ connections at the rear of the engine for correct connection.

- A) Blue dot and pink dot end of feed hose are connected to the engine feed pipe.
- B) Blue dot and white dot end of return hose Are connected to the engine return pipe.



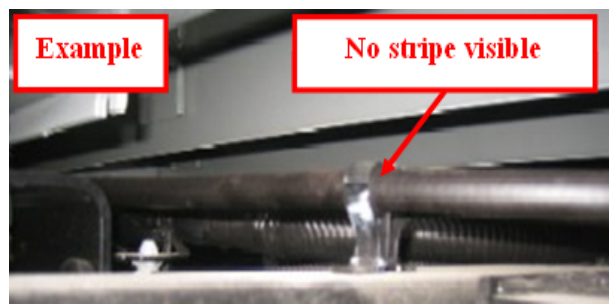
44. Inspect the hose at the inlet of the filter Assembly for correct connection.

- A) The pink dot end must connect to the inlet of the filter assembly.



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45. Once secured, the pink or white stripes should be completely covered by the clamp.



46. Confirm the four bolts of the step are tightened to the specified torque.



Specified Torque: 32 ft. lbs. (43 Nm).

Warranty Application Information:

Campaign Number: A6280 MDT Dual Fuel Tanks

Time Allowance: 1.2 Hours

Warranty Code: 1222298

Operation Code: 12250AOT

Original Part Number: SZ95061921