

Voluntary Recall Bulletin

Subject: Inspection and Replacement of Turbocharger - J05D

Date: June 16, 2011

Bulletin: RCB-003-11

Campaign #: D4460

Affected Models: Certain 2008 - 2010 MY NA6J, NB6J and NC6J models equipped with a J05D engine

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

Description:

This bulletin involves the inspection of the Variable Nozzle Turbine (VNT) turbocharger link rod along with the potential replacement of the VNT turbocharger assembly.

Condition:

The check engine light may become illuminated indicating a VNT turbocharger malfunction. The malfunction is the result of the link rod between the VNT and turbocharger computer sticking due to rust. This malfunction occurs in the following rust belt states: Connecticut, Illinois, Indiana, Iowa, Kentucky, Maine, Maryland, Massachusetts, Michigan, Minnesota, North Carolina, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, South Dakota, Vermont, Virginia, West Virginia, and Wisconsin.

Subject Vehicles:

Certain 2008~2010 MY NA6J, NB6J and NC6J model trucks equipped with a J05D Engine.

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.

!!! 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.

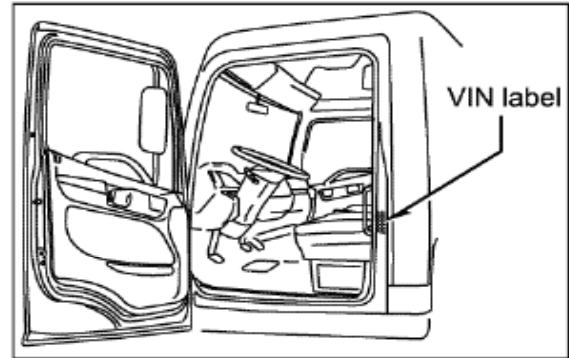
Wear safety glasses to prevent eye injuries.

Confirm the engine is stopped, the starter switch is in the off (LOCK) position, and the key is removed.

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Once Recall Is Completed

Complete a recall sticker and affix to the left door jam above the V.I.N. decal.



PART NUMBER	DESCRIPTION	QUANTITY
51286	Anti-Seize Nickel Compound 12oz Aerosol Can	1
17201E0363	Variable Nozzle Turbine (VNT) Turbocharger	1
S040010441	Install Gasket Kit Turbo J05D	1

DIAGNOSIS AND INSPECTION:

1. Park the vehicle on level ground.
2. Confirm the engine is stopped, the starter switch is in the off (LOCK) position, and the key is removed.



3. Apply the parking brakes.



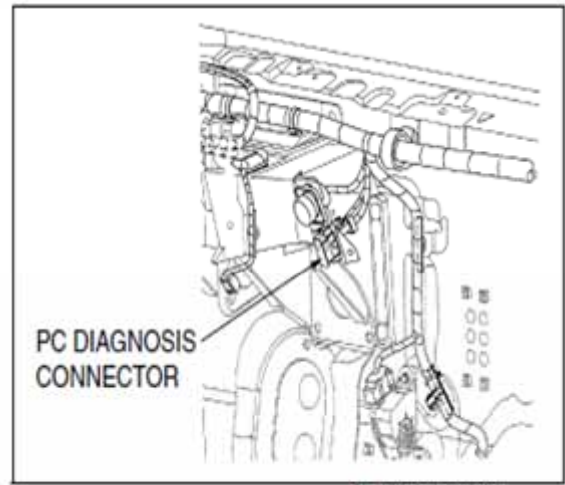
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4. Chock all of the wheels.



5. Connect your PC to the vehicles diagnostic connector using the DX and the related software.

NOTE: The diagnostic connector is located to the right side of the steering column under the dash.



NOTICE: HINO'S DIAGNOSTIC HARWARE AND SOFTWARE

Hino Bowie (09993-E9070)

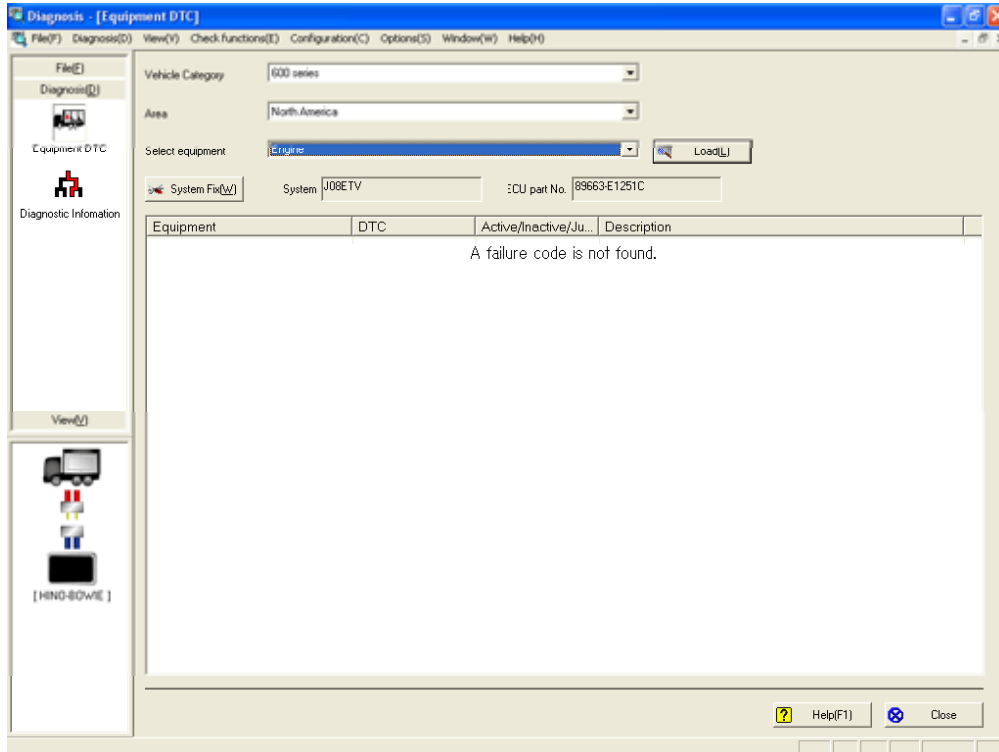
Cable communication (09042-1220)

Diagnosis software: HINO Diagnostic eXplorer (DX)

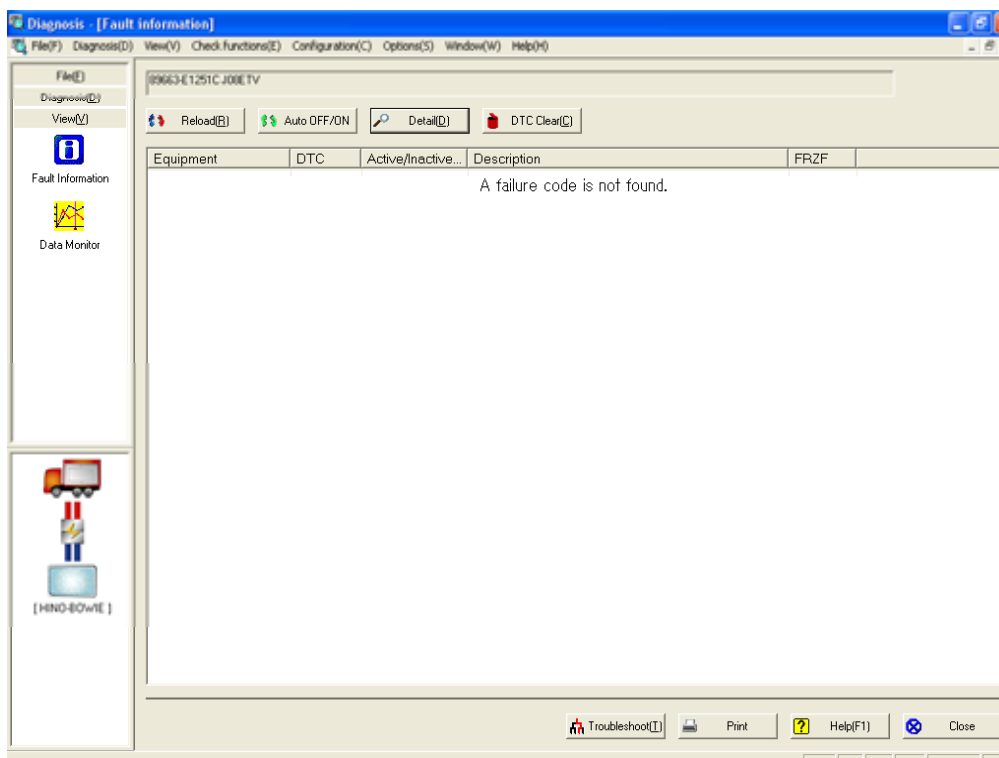


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6. Cycle the ignition key (ON) and then open the “HINO Diagnosis Explorer” application on your PC. Select: - “**Diagnosis**”, “**Equipment DTC**”, “**600 Series**”, “**North America**”, “**Engine**”, “**Load**” then “**System Fix**”



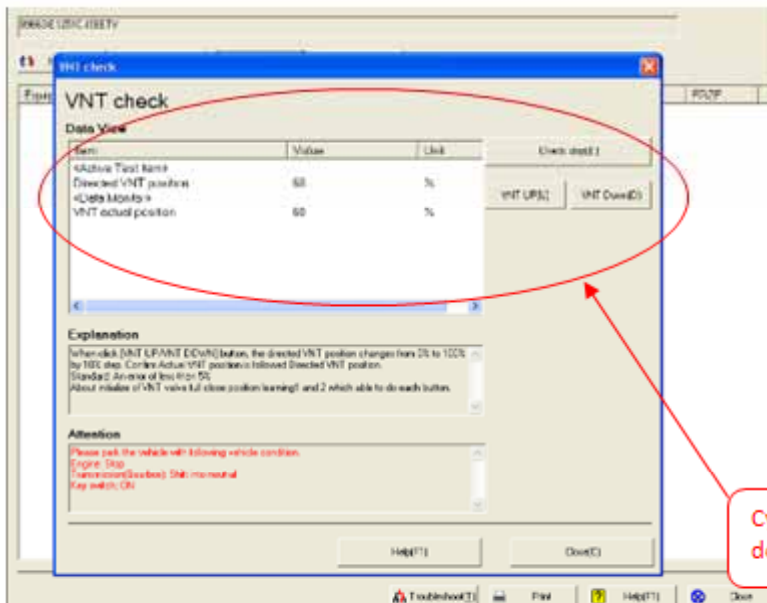
7. Read, record and clear any engine Diagnostic Trouble Codes (DTC)'s.



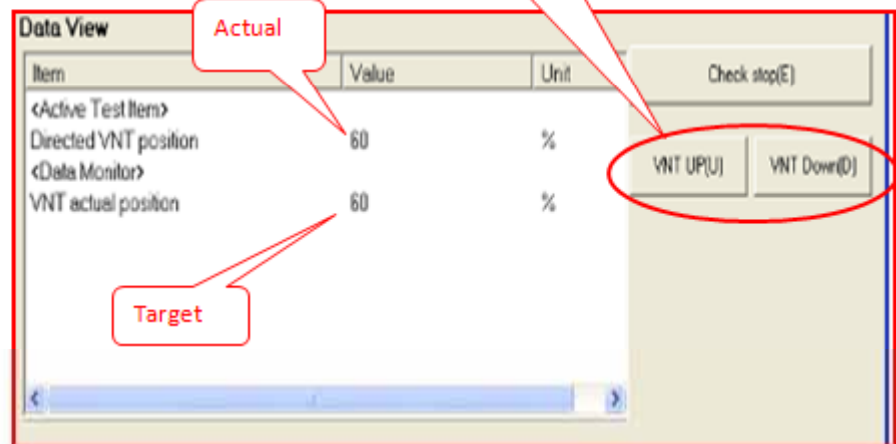
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8. Perform the following "VNT Check".

- (i) Select the "VNT Check" in the "Check Functions" menu using the DX.
- (ii) Select "Check Start(E)" and then toggle the VNT turbocharger up and down from 0 to 100 using the "VNT UP(U)" and "VNT DOWN(D)" buttons on the DX.
- (iii) Confirm the "Directed VNT Position" follows the "VNT Actual Position".



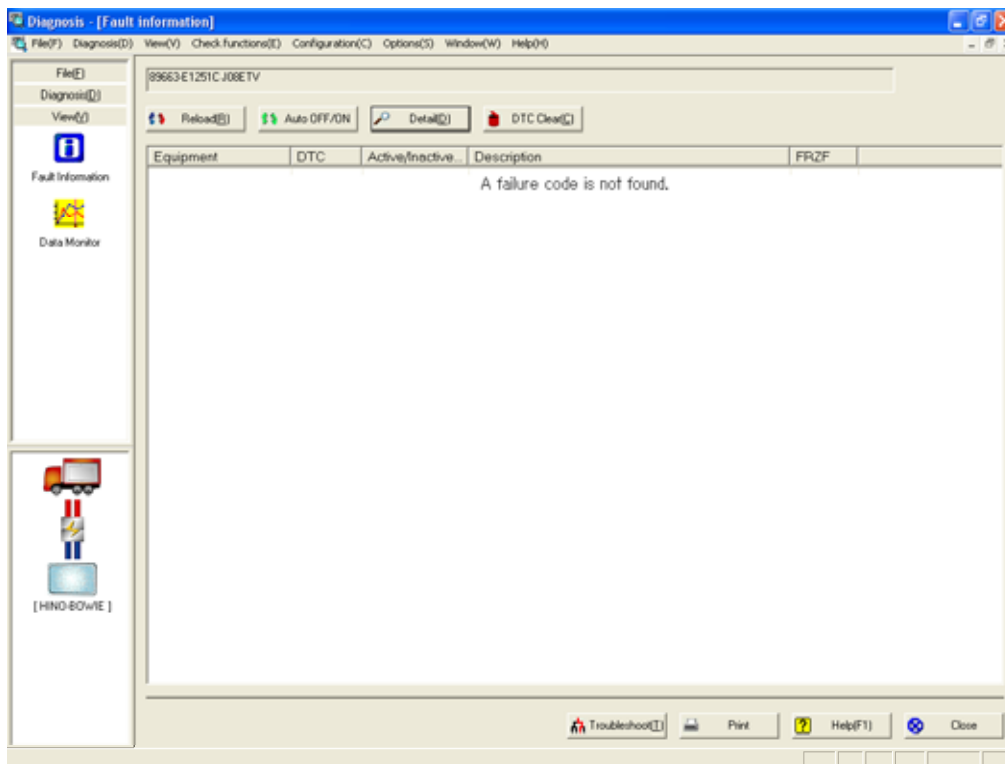
Cycle up to 100 and down to 0 – Ten cycles



- (iv) Once the VNT turbo has been cycled fully open and closed 10 times, select the "Check Stop(E)" button.

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9. Recheck for DTC's by selecting the "Reload(R)" button.



(9a) If either DTC's P0045 / U1123 were reset from STEP 9 or the "VNT Actual Position" fails to follow the "Directed VNT Position", please continue to **STEP 10**.

(9b) If no DTC's set were reset in STEP 9 and the "VNT Actual Position" follows the "Directed VNT Position" during the VNT check, please proceed to **STEP 12**.

10. With DTC's P0045 / U1123 set or the "VNT Actual Position" fails to follow the "Directed VNT Position", confirm no related pin, connector or harness concerns are present. Reference the on-line Engine Workshop Manual under "*Fuel Control*" and then "*VNT Turbocharger Controller*" for specific pin and connector locations along with more detailed diagnostic procedures.

(10a) If currently no concerns are found with the related circuits between the Rotary Electronic Actuator (REA) and Engine Control Unit (ECU), continue to **STEP 11** in efforts to lubricate and free up the VNT turbocharger linkage.

(10b) If a concern is identified with the related circuits between the REA and ECU, repair the failure using the most current Engine Workshop Manual Procedures, clear the DTC's and go back to **STEP 8** to recheck and determine if the concern has been resolved.

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WARNING: BEFORE BEGINNING THE INSPECTION AND LUBRICATION OF THE VNT TURBOCHARGER LINK ROD, MAKE CERTAIN THAT THE ENGINE AND EXHAUST HAVE COOLED OFF TO REDUCE THE RISK OF BURNS.

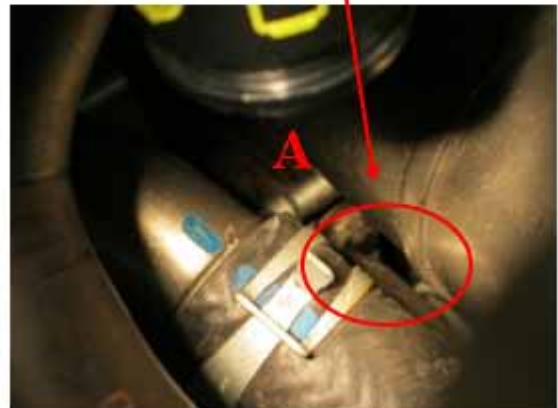
11. Lubricate the VNT turbocharger upper (A) and lower (B) link rod pivots with the aerosol “Loctite Nickel Anti-Seize”, Hino P/N 51286.

(i) Clear any engine Diagnostic Trouble Codes (DTC)’s.

(ii) Perform the following “VNT Check” again.

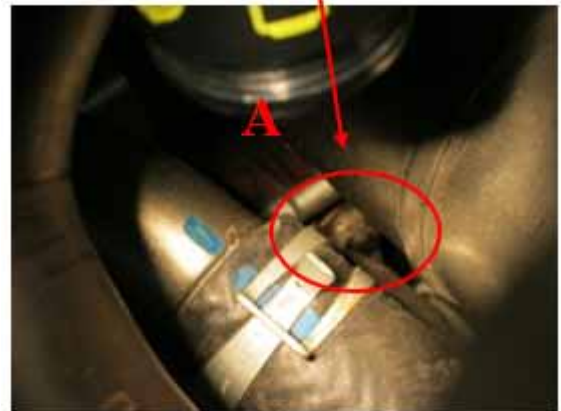
- (a) Select the “VNT Check” in the “Check Functions” menu using the DX.
- (b) Select “Check Start(E)” and then toggle the VNT turbocharger up and down from 0 to 100 using the “VNT UP(U)” and VNT DOWN(D) buttons on the DX.
- (c) Confirm that the “Directed VNT Position” follows the “VNT Actual Position”.
- (d) Once the VNT turbo has been cycled fully open and closed 10 times, select the “Check Stop(E)” button.
- (e) Recheck for DTC’s by selecting the “Reload(R)” button.

(iii) If either DTC’s P0045 / U1123 set again or the “VNT Actual Position” fails to follow the “Directed VNT Position”, replacement of the VNT turbocharger assembly will be required. Please continue to the “**Turbo Replacement Procedure**”. If the “VNT Actual Position” now successfully follows the “Directed VNT Position” and the DTC’s P0045 and/or P0045 U1123 do not reset, please continue to **STEP 12**.



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12. Lubricate the VNT turbocharger upper(A) and lower(B) link rod pivots with the aerosol “Loctite Nickel Anti-Seize”, part number 51286 and then cycle the VNT turbocharger 10 times to allow the “Loctite Nickel Anti-Seize” to penetrate and work into the VNT pivot and pivot rod joint. With no current failures found of the VNT turbocharger, VNT turbocharger replacement **WILL NOT** be required at this time. The vehicle can be returned to the customer as no further service will be required.

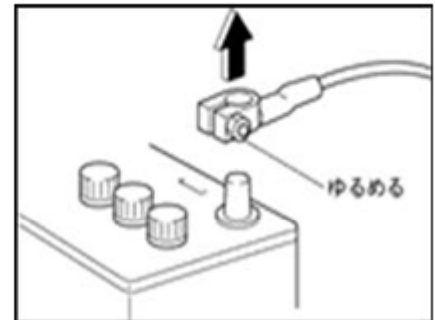


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TURBO REPLACEMENT PROCEDURE (TURBO REMOVAL):

WARNING: BEFORE BEGINNING REPLACEMENT OF THE VNT TURBOCHARGER, MAKE CERTAIN THAT THE ENGINE AND EXHAUST HAVE COOLED OFF TO REDUCE THE RISK OF BURNS.

1. Remove the negative battery cable from the negative posts of the batteries.



2. Release both hood latches.



3. Make certain that there is proper clearance around the hood and then raise the hood.



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4. Remove the passenger side inner splash shield by removing the 5 bolts that secure the inner shield to the vehicles frame rail.



5. Loosen the fresh air inlet hose clamp.



6. Disconnect the Air Flow Sensor electrical connector.



7. Disconnect the Air Flow Sensor harness clip.



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8. Remove the 4 air box bracket nuts and then remove the air box and fresh air hose assembly.

NOTICE: Make certain that no debris enters any of the openings on the filtered side of the air induction system. If the engine is allowed to restart with debris present in the air induction system, engine damage may occur.

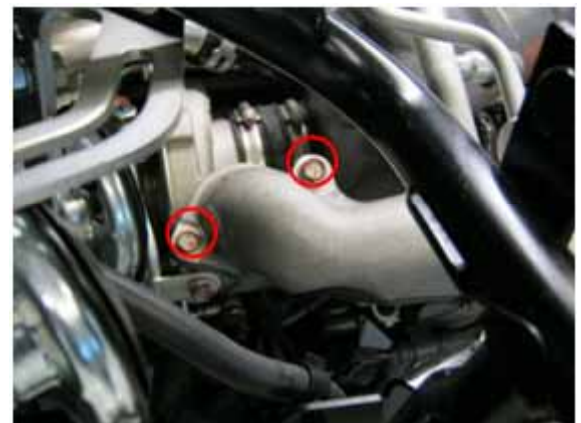
NOTICE: Make certain that all the rubber collars and steel spacers are collected from the air box and mounting bracket so they can be reused at the time of reassembly.

9. Remove both the crankcase and the air compressor breather hose clamps. Disconnect each hose from the VNT turbocharger fresh air inlet air tube.

10. Remove the 2 VNT turbocharger air outlet tube bolts.

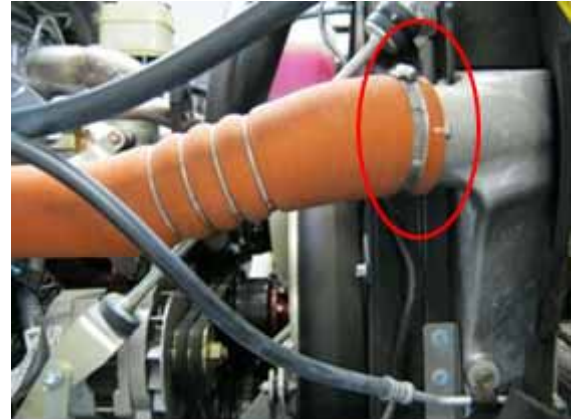
NOTICE: Discard the old steel gasket. Do not reuse the discarded steel gasket.

11. Remove the VNT turbocharger upper air outlet tube bracket bolt.



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12. Loosen the VNT turbocharger air outlet hose clamp on the air cooler.

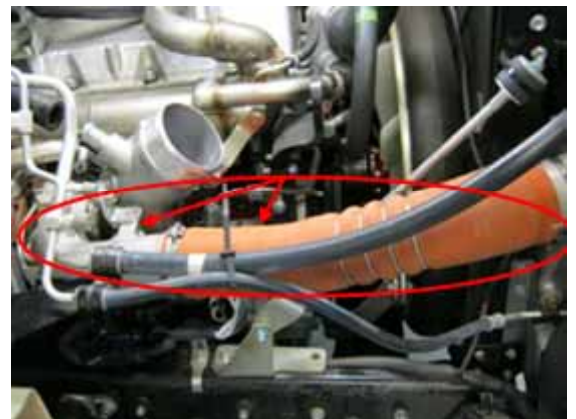


13. Remove the lower VNT turbocharger air outlet tube bracket bolt.



14. Remove the VNT turbocharger air outlet tube and hose together as an assembly.

NOTICE: Make certain that no debris enters any of the openings on the filtered side of the air induction system. If the engine is allowed to restart with debris present in the air induction system, engine damage may occur.



15. Loosen the VNT turbocharger fresh air inlet air hose clamp.



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16. Remove the VNT turbocharger fresh air inlet air tube bracket bolt.



17. Remove the VNT turbocharger fresh air inlet air tube and hose together, as an assembly.



18. Disconnect the harness clips from their brackets.



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19. Disconnect the REA electrical connector.



20. Remove the 3 VNT turbocharger support bracket bolts.



21. Remove the 2 upper and 2 lower VNT turbocharger heat shield bolts. Then remove the upper and lower heat shields.



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WARNING: Never open the cooling system until enough time has passed to allow the coolant temperatures and coolant pressure to drop to ambient temperature and pressures. Failure to allow the coolant temperature and pressure to decrease may result in personal injury.

22. Loosen the drain bolt and drain the engine coolant into a approved container.



23. Tighten the engine coolant drain bolt to the specified torque.



Specified Torque: 44Nm (32.5 lb. ft.)

24. Remove the 3 Exhaust Gas Recirculation (EGR) cooler hose clamps and then remove the corresponding hose from each connection.



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25. Remove the 4 engine hanger bracket bolts.



26. Remove the 2 EGR cooler exhaust outlet flange nuts.

NOTICE: Discard the old steel gasket. Do not reuse the discarded steel gasket.



27. Disconnect the EGR valve electrical connector.



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28. Disconnect the 2 harness clips from their bracket.



29. Remove the Closed Crankcase Ventilation (CCV) hose clamp and then disconnect the hose from the CCV oil separator.



30. Remove the 2 EGR valve flange bolts.

NOTICE: Discard the old steel gasket. Do not reuse the discarded steel gasket.



31. Remove the EGR valve and tube assembly.

NOTICE: Discard the old steel gaskets. Do not reuse the discarded steel gasket.



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32. Remove the forward EGR cooler mounting bolt.



33. Remove the 2 rearward EGR cooler exhaust inlet flange bolts for the EGR cooler and also remove the EGR cooler.

NOTICE: Discard the old steel gasket. Do not reuse the discarded steel gasket.



34. Remove the VNT turbocharger outlet elbow support bolt.



35. Remove the 2 VNT turbocharger outlet exhaust flange nuts and then the VNT turbocharger outlet exhaust flange bolt.

NOTICE: Discard the old steel gasket. Do not reuse the discarded steel gasket.



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36. Loosen the exhaust Diesel Particulate Filter (DPF) hanger bracket nuts. This will allow the exhaust to pivot rearward for removal of the forward exhaust pipe.



37. Loosen the rear exhaust hanger clamp to allow the exhaust to pivot rearward for removal of the forward exhaust pipe.



38. Remove the forward exhaust brake flange nuts that secure the forward exhaust pipe.



NOTICE: Discard the old steel gasket. Do not reuse the discarded steel gasket.



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39. Remove the forward exhaust pipe hanger and then remove the forward exhaust pipe between the exhaust brake and VNT turbocharger outlet.

NOTICE: Discard the old steel gasket. Do not reuse the discarded steel gasket.



40. Remove the VNT turbocharger oil supply line mounting bracket bolt.



41. Remove the upper VNT turbocharger oil supply line banjo bolt off of the VNT turbocharger.

NOTICE: Discard the old copper sealing washers. Do not reuse the discarded copper sealing washers.



42. Remove first the lower VNT turbocharger oil supply line banjo bolt and then remove the oil supply line for the VNT turbocharger.

NOTICE: Discard the old copper sealing washers. Do not reuse the discarded copper sealing washers.



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43. Remove the upper and lower coolant line banjo bolts for the VNT turbocharger coolant return line. Remove the VNT turbocharger coolant return line.

NOTICE: Discard the old rubber/aluminum sealing washers. Do not reuse the discarded rubber/aluminum washers.



44. Remove the VNT turbocharger coolant return line extension tube.

NOTICE: Discard the old rubber/aluminum sealing washer. Do not reuse the discarded rubber/aluminum washers.



45. Remove the VNT turbocharger coolant supply line banjo bolt.

NOTICE: Discard the old rubber/aluminum sealing washers. Do not reuse the discarded rubber/aluminum washers.



46. Remove the 2 upper VNT turbocharger oil return tube flange bolts.

NOTICE: Discard the old gasket. Do not reuse the discarded gasket.



Voluntary Recall Bulletin

47. Remove the 2 lower VNT turbocharger oil drain tube flange bolts and then remove the VNT turbocharger oil return tube.

NOTICE: Discard the old gasket. Do not reuse the discarded gasket.



48. Remove the VNT turbocharger support bracket bolt.



49. Remove the 4 VNT turbocharger flange nuts at the exhaust manifold-to-VNT turbocharger inlet flange and then remove the VNT turbocharger.

NOTICE: Discard the old steel gasket. Do not reuse the discarded steel gasket.

NOTICE: You must save the steel washers which will be needed and reused upon assembly.



Voluntary Recall Bulletin

50. Remove the 2 VNT turbocharger elbow flange bolts and then the VNT turbocharger elbow flange nut.

NOTICE: Discard the old steel gasket. Do not reuse the discarded steel gasket.

NOTICE: You must save the steel washers which will be needed and reused upon assembly.



TURBO REPLACEMENT PROCEDURE (TURBO INSTALLATION):

1. Install the new studs onto the VNT turbocharger.



2. Install the VNT turbocharger elbow onto the VNT turbocharger with a new steel flange gasket. Tighten the single nut and 2 bolts to the specified torque.

Specified Torque: 41 lb. ft. (56 Nm)

NOTICE: Make certain that a new steel flange gasket is installed. Do not install the old steel flange gasket.



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3. Install the VNT turbocharger onto the exhaust manifold outlet-to-VNT turbocharger exhaust inlet flange. Make certain that a new steel flange gasket is installed. Tighten the 4 flange nuts to the specified torque.

Specified Torque: 41 lb. ft. (56 Nm)

NOTICE: Make certain that a new steel flange gasket is installed. Do not install the old steel flange gasket.



4. Install and tighten the VNT turbocharger support bracket bolt to the specified torque.

Specified Torque: 41 lb. ft. (55 Nm)



5. Install the VNT turbocharger oil drain tube and then 4 oil drain tube flange bolts. Make certain that new gaskets are used and that all 4 bolts are threaded in by hand. Once all 4 bolts are hand tight, tighten the VNT turbocharger oil drain tube flange bolts to the specified torque.

Specified Torque: 21 lb. ft. (28.5 Nm)

NOTICE: Make certain new flange gaskets are installed. Do not install the old flange gaskets.



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6. Install the VNT turbocharger coolant supply line banjo bolt with new sealing washers and tighten to the specified torque.

Specified Torque: 18.5 lb. ft. (25 Nm)

NOTICE: Make certain that new rubber/aluminum sealing washers are used upon reassembly. Do not install the old rubber/aluminum sealing washers.



7. Install the VNT turbocharger coolant return line extension tube with new sealing washers and tighten to the specified torque.

Specified Torque: 18.5 lb. ft. (25 Nm)

NOTICE: Make certain that new rubber/aluminum sealing washers are used upon reassembly. Do not install the old rubber/aluminum sealing washers.



8. Install the VNT turbocharger coolant return line along with the upper and lower banjo bolts. Make certain new sealing washers are installed and the banjo bolts are tightened to the specified torque.

Specified Torque: 18.5 lb. ft. (25 Nm)

NOTICE: Make certain that new rubber/aluminum sealing washers are used upon reassembly. Do not install the old rubber/aluminum sealing washers.



9. Install the VNT turbocharger oil supply line and oil supply line mounting bracket bolt. Only tighten the mounting bracket bolt by hand at this time.



Voluntary Recall Bulletin

10. Install the VNT turbocharger oil supply line upper and lower banjo bolts. Make certain that new sealing washers are installed and the banjo bolts are tightened to the specified torque.



Specified Torque: 18.5 lb. ft. (25 Nm)

NOTICE: Make certain that new copper sealing washers are used upon reassembly. Do not install old copper sealing washers.



11. Tighten the VNT turbocharger oil supply line mounting bracket bolt to the specified torque.



Specified Torque: 21 lb. ft. (28.5 Nm)

12. Install the forward exhaust pipe. Make certain that the flange gasket between the VNT turbocharger and forward exhaust pipe along with the flange gasket between the forward exhaust pipe and exhaust brake have been replaced.



NOTICE: Make certain that new steel flange gaskets are installed. Do not install old steel flange gaskets.

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13. Install the 2 VNT turbocharger outlet exhaust flange nuts and the VNT turbocharger exhaust flange bolt. Tighten to the specified torque.

Specified Torque: 52 lb. ft. (70 Nm)

NOTICE: Make certain that new steel flange gaskets are installed. Do not install old steel flange gaskets.



14. Install the exhaust support bolt and tighten to the specified torque.

Specified Torque: 41lb. ft. (55 Nm)



15. Install the 4 forward exhaust pipe flange nuts at the exhaust brake and tighten to the specified torque.

Specified Torque: 52 lb. ft. (70 Nm)

NOTICE: Make certain that new steel flange gaskets are installed. Do not install old steel flange gaskets.



16. Center and tighten the forward exhaust hanger clamp to the specified torque. The upper clamp bolt will require tightening first and then the lower hanger clamp bolt last.

Specified Torque: 38 lb. ft. (51 Nm) -Upper-
Specified Torque: 21 lb. ft. (29 Nm) -Lower-



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17. Center and tighten the rear exhaust hanger clamp to the specified torque. The upper clamp bolt will require tightening first and then the lower hanger clamp bolt last.

**Specified Torque: 38 lb. ft. (51 Nm) -Upper-
Specified Torque: 21 lb. ft. (29 Nm) -Lower-**



18. Tighten the DPF hanger bracket nuts to the specified torque.

Specified Torque: 44 lb. ft. (60 Nm)



19. Install the EGR cooler along with the new steel flange gasket. Hand tighten the 2 flange bolts along with the forward EGR cooler mounting bolt. Tighten the 3 bolts to the specified torque.

Specified Torque: 41 lb. ft. (55 Nm)

NOTICE:. Make certain that a new steel flange gasket is installed. Do not install the old steel flange gasket.



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20. Install the EGR valve and tube assembly.

NOTICE: Make certain that new steel flange gaskets are installed. Do not install the old steel flange gaskets.



21. Install the 2 EGR valve flange bolts along with a new flange gasket. Tighten the bolts to the specified torque.

Specified Torque: 41 lb. ft. (55 Nm)

NOTICE: Make certain that a new steel flange gasket is installed. Do not install the old steel flange gasket.



22. Install the CCV hose and position the clamp to secure the hose.



23. Connect the 2 harness clips onto their bracket.



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24. Connect the EGR valve electrical connector.



25. Install the 2 EGR cooler outlet flange nuts along with a new steel flange gasket. Tighten to bolts to the specified torque.

Specified Torque: 41 lb. ft. (55 Nm)

NOTICE: Make certain that a new steel flange gasket is installed. Do not install the old steel flange gasket.



26. Install the 4 engine hanger bracket bolts and tighten to the specified torque.

Specified Torque

12mm x 1.25: 100 lb. ft. (136 Nm)

12mm x 1.50: 51 lb. ft. (68.5 Nm)



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27. Reconnect the 3 EGR cooler coolant hoses and then position the spring clamps to secure each coolant hose.



28. Install the upper and lower VNT turbocharger heat shields and bolts. Tighten the bolts to the specified torque.

Specified Torque: 21 lb. ft. (28.5 Nm)



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29. Install the 3 VNT turbocharger support bracket bolts and tighten to the specified torque.

Specified Torque: 21 lb. ft. (28.5 Nm)



30. Reconnect the REA electrical connector.



31. Reconnect the 3 harness clips to their bracket.



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32. Install the VNT turbocharger air inlet air tube and hose assembly.



33. Install the VNT turbocharger fresh air inlet air tube bracket bolt and tighten to the specified torque.

Specified Torque: 21 lb. ft. (28.5 Nm)

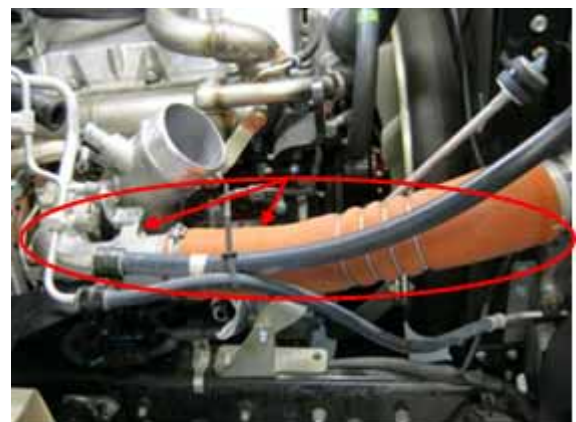


34. Position and tighten the VNT turbocharger fresh air inlet air hose clamp to the specified torque.

Specified Torque: 4 lb. ft. (5 Nm)



35. Install the VNT turbocharger air outlet tube and hose as an assembly.

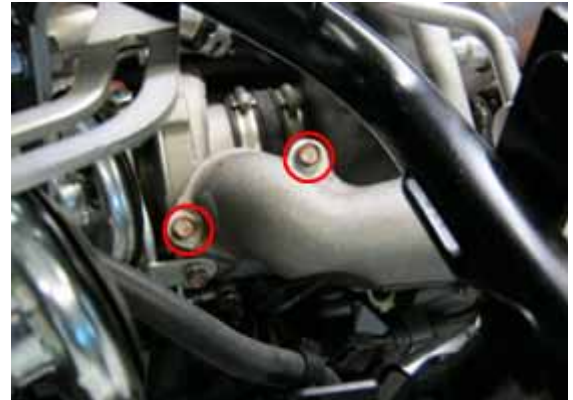


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36. Install the 2 VNT turbocharger outlet tube bolts along with a new steel gasket. Tighten to the specified torque.

Specified Torque: 21 lb. ft. (28.5 Nm)

NOTICE: Make certain that a new steel flange gasket is installed. Do not install the old steel flange gasket.



37. Install the VNT turbocharger upper outlet tube bracket bolt and tighten to the specified torque.

Specified Torque: 21 lb. ft. (28.5 Nm)



38. Install the lower VNT turbocharger outlet tube bracket bolt and tighten to the specified torque.

Specified Torque: 21 lb. ft. (28.5 Nm)



39. Tighten the VNT turbocharger outlet hose clamp at the air cooler.

Specified Torque: 5 lb. ft. (6 Nm)

NOTICE: Make certain that both mating surfaces of the hose connection are free from grease before reassembly.



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- 40.** Install the crankcase and air compressor breather hoses. Position both clamps to secure each hose.



- 41.** Install the air box and fresh air hose assembly. Install the spacers, rubber bushings and 4 nuts. Tighten to the specified torque.

Specified Torque: 18 lb. ft. (25 Nm)



- 42.** Connect the Air Flow Sensor harness clip.



- 43.** Connect the Air Flow Sensor electrical connector.



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44. Install the fresh air inlet tube and tighten the hose clamp to the specified torque.

Specified Torque: 4 lb. ft. (5 Nm)



45. Install the passenger side inner splash shield and tighten the bolts to the specified torque.

Specified Torque:

10mm x 1.25: 44 lb. ft. (60 Nm)

8mm x 1.25: 21 lb. ft. (28.5 Nm)



46. Fill and bleed the vehicles cooling system with approved Hino Genuine Coolant.
47. Reconnect the vehicle's negative battery terminals.
60. Perform your final confirmation after the repair. Inspect to confirm that there are no oil or coolant leaks present and then close and secure the hood latches.
48. Start the engine and allow it to reach operating temperature.
49. Hook up to the vehicle with the DX and recheck for any DTC's. If any DTC's may have been set during service of the vehicle, these should be cleared prior to releasing the vehicle back to the customer. Run the vehicle through a "VNT CHECK" and confirm that the vehicle has been repaired.
50. Shut the vehicle down and cycle the ignition key to "Lock". Once the vehicle has cooled off, recheck to make certain that the coolant level is full and then top off, as needed.

CLAIM APPLICATION

J05D Inspection and Lubrication

- a) Campaign No: D4460
- b) Labor charge: 1.0hr
- c) Warranty code: 0816598
- d) Operation code: 08150AOT
- e) Original part #: 17201E0352

J05D Inspection and Replacement

- a) Campaign No: D4460
- b) Labor charge: 5.0hr
- c) Warranty code: 0816598
- d) Operation code: 08101ARE
- e) Original part #: 17201E0352