

Group:	0-General
Bulletin No.:	SB-15-010
Issue Date:	01-20-2014

# TECHNICAL SERVICE BULLETIN

## 2011MY-15MY EGR (Exhaust Gas Recirculation) Valve Heater

### OVERVIEW

Some vehicles that operate in extreme cold weather climates may exhibit ice accumulation on the EGR (Exhaust Gas Recirculation) butterfly plate with a repeat P1604 DTC (Diagnostic Trouble Code) stored in the engine ECU. A heated EGR valve has been made available to prevent this occurrence.

**NOTE: Please note that this bulletin is to be used in conjunction with the cold weather enhancement procedure (A-15-012).**

**NOTE:** This procedure is provided as technical information and is not an authorization for a warranty repair.

### SUBJECT VEHICLES

2011MY – 2015MY Hino Conventional NE8J, NJ8J and NV8J trucks built before 10/15/14

### BEFORE YOU BEGIN:

- Read and understand all instructions and procedures before you begin the work.
- Read and follow all WARNINGS and NOTICES set forth in this publication. These alerts help to avoid damage to components, serious personal injury, or both.
- Park the vehicle on a flat, level and solid surface.
- Place the gear shift lever in "Neutral" or "Park".
- Apply the parking brake firmly and confirm parking brake activation.
- Turn off the engine and remove the key from the ignition switch.
- Always wear safety glasses or goggles to protect your eyes.

Place wheel chocks in front of and behind all the wheels to prevent the vehicle from moving.

### PARTS:

PART NUMBER	DESCRIPTION	QUANTITY
EGRKIT11-13MY	EGR PIPE KIT(2011-2013MY)	As Needed
EGRKIT14-15MY	EGR PIPE KIT(2014-2015MY)	As Needed

### KIT CONTENTS:

KIT PART NUMBER: EGRKIT11-13MY EGR PIPE KIT(2011-2013MY)		
PART NUMBER	DESCRIPTION	QUANTITY
SH552-11025	BOLT, FLANGE	3
SH552-11075	BOLT, FLANGE	4
SZ209-16014	WASHER, SOFT	2
SZ401-16012	BOLT	2
25601-E0510	PIPE SUB-ASSY, EGR	1

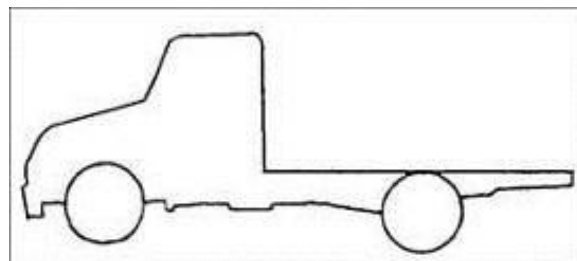
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SL722-01010	WASHER	1
25627-E0070	GASKET, EGR VALVE	2
25634-E0020	GASKET, EGR PIPE	1
SH552-10835	BOLT, FLANGE	2
SZ209-16014	WASHER, SOFT	2
SZ401-16012	BOLT	2
S2942-E0431	PIPE, AIR COMPR COOLANT, OUTLET	1
S2942-E0440	PIPE, AIR COMPR COOLANT, OUTLET	1
S7990-42180	CLIP SUB ASSY	4

KIT PART NUMBER: EGRKIT14-15MY EGR PIPE KIT(2014-2015MY)		
PART NUMBER	DESCRIPTION	QUANTITY
SH552-11025	BOLT, FLANGE	3
SH552-11075	BOLT, FLANGE	4
SZ209-16014	WASHER, SOFT	2
SZ401-16012	BOLT	2
25601-E0561	PIPE SUB-ASSY, EGR	1
25627-E0070	GASKET, EGR VALVE	2
25634-E0020	GASKET, EGR PIPE	1
SH552-10835	BOLT, FLANGE	2
SZ209-16014	WASHER, SOFT	2
SZ401-16012	BOLT	2
S2942-E0431	PIPE, AIR COMPR COOLANT, OUTLET	1
S2942-E0440	PIPE, AIR COMPR COOLANT, OUTLET	1
S7990-42180	CLIP SUB ASSY	4

### VEHICLE PREPARATION:

1. Park the vehicle on a flat level and solid surface.



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



3. Apply the parking brake.



4. Chock all of the wheels.



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## INSTALLATION PROCEDURE

**WARNING:** The vehicle must be completely cooled before starting this procedure. Failure to allow the vehicle to cool completely may result in serious burn injuries.

1. Drain the coolant from the engine into an appropriate container by loosening the drain plug on the oil cooler on the passenger side of the engine block. Once the coolant has drained, tighten the drain plug to the specified torque.



**Specified Torque:** 32.5 lb-ft (44 Nm)

2. Remove the EGR cooler outlet temperature sensor. For 2011-2013MY, slide the connector off the mounting tab before removing the sensor so the wires can rotate. For 2014-2015MY the sensor uses a rotating threaded collar around the sensor, and does not have to be disconnected. Remove the EGR outlet temperature sensor from the EGR pipe, as shown near the bottom of both photographs below. Retain all parts for reassembly.

**2011-2013MY**



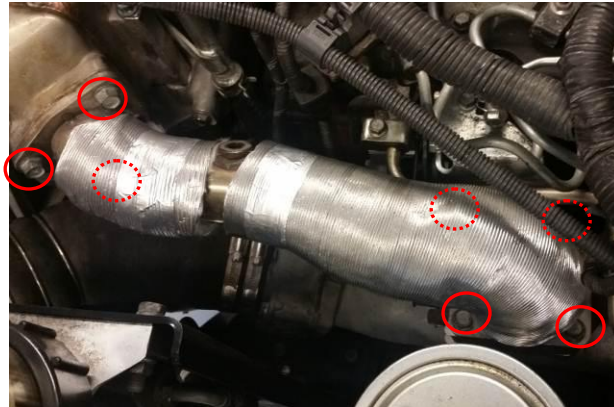
**2014-2015MY**



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**3.** Remove the seven mounting bolts from the EGR pipe. Remove the EGR pipe and gaskets. Discard the bolts, pipe, and gaskets.



**4.** In order to remove the gasket from under the EGR valve and clean the mating surface of the EGR valve and intake manifold, it will be necessary to remove the nut securing the EGR valve to the brace attached to the side of the actuator. Retain this nut for reassembly and discard the EGR valve gasket. Refer to the photographs below for reference.



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5. Remove the two bolts securing the pipe clips that hold the air compressor coolant pipe to the intake manifold. Remove the union bolts and sealing washers from the air compressor head and engine block. Discard these components. Refer to the photographs below for reference.



6. To remove the air compressor coolant pipe, two harness retainers at the front and center of the intake manifold will need to be removed to allow clearance. Remove one bolt per harness retainer and then remove the air compressor coolant pipe. Refer to the photographs below for reference. Once the coolant pipe is removed, the harness retainers can be reinstalled and the bolts tightened to the specified torque. Discard the coolant pipe.

**Specified Torque: 21 lb-ft (28.5 Nm)**



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7. Clean the mating surface between the EGR valve and the intake manifold and place a new gasket in between these components

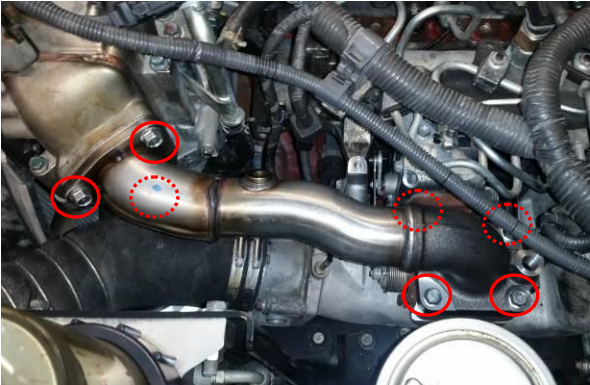


8. Thread the EGR valve brace nut back on the stud on the EGR valve, but do not tighten at this time.



9. Install the new EGR pipe along with two new gaskets and seven new bolts. Hand tighten all bolts prior to tightening to the specified torque. Once the EGR pipe bolts have been tightened to the specified torque, tighten the EGR valve brace nut to the specified torque.

**EGR Pipe Bolts:** 40.5 lb-ft (55 Nm)  
**EGR Valve Brace Nut:** 21 lb-ft (28.5 Nm)

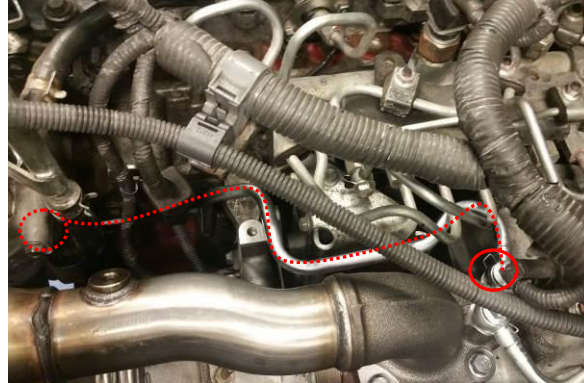


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**10.** Install the two new air compressor coolant pipes using the four new union bolts and four new sealing washers to route coolant through the new EGR pipe. Hand tighten all union bolts and then tighten to the specified torque. Refer to the highlighted portions of the photographs below for pipe routing.

**Specified Torque:** 22 lb-ft (29.4 Nm)



**11.** Install the two new coolant pipe attachment clips and bolts. These install in the same locations on the intake manifold from which the old components were removed. Tighten the bolts to the specified torque.

**Specified Torque:** 2.5 lb-ft (3.4 Nm)



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**12.** Clean the threads on the EGR cooler outlet temperature sensor that was removed in step 2. Reinstall the sensor and torque to the specified torque. Reconnect the electrical connector and harness clip for 2011-2013MY vehicles.

**EGR Temperature Sensor 2011-2013MY:** 14.5 lb-ft (19.6 Nm)  
**EGR Temperature Sensor 2014-2015MY:** 22 lb-ft (30 Nm)

**2011-2013MY**



**2014-2015MY**



**13.** Refill the cooling system using the coolant that was drained from the vehicle.



**14.** Run the engine to purge the air from the cooling system. Verify that there are no leaks from the cooling system or the EGR pipe.

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## FINAL INSPECTION PROCEDURE

1. To complete this Technical Service Bulletin, review the bulletin and confirm the following:

- All fasteners have been torqued properly.
- The EGR pipe and coolant lines have been checked for leaks.
- The cooling system has been purged of any air and filled to proper level.

**NOTE:** This procedure is provided as technical information and is not an authorization for a warranty repair.

## CLAIM APPLICATION

*\* Reimbursable in accordance within the terms and policies of the Hino Truck limited warranties.*

- a) Labor Charge: 1.4 Hours
- b) Warranty Code: 05220
- c) Trouble Code: 40
- d) Operation Code: 05250AOT
- e) Part Number: 9999999999