

Group:	17-Intake and Exhaust
Bulletin No.:	SB-15-016
Issue Date:	03-06-2015

TECHNICAL SERVICE BULLETIN

13MY-15MY COE J05 Broken Exhaust Manifold Studs

OVERVIEW

New parts are available to prevent repeat exhaust manifold stud failures on the J05 engine. This bulletin provides instructions for installing longer manifold studs at the #4 cylinder location.

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

SUBJECT VEHICLES

Certain 2013MY through 2015MY Hino COE vehicles equipped with a J05 engine.

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 level and solid surface and apply the parking brake.
- Place the gear shift lever in "Neutral" or "N".
- Confirm the engine is stopped, the ignition switch is in the off (LOCK) position, and the key is removed.
- Wear safety glasses to prevent eye injuries.
- Place wheel chocks in front of and behind all the wheels to prevent the vehicle from moving.
- Wait until the engine and exhaust are cool enough to touch before servicing the exhaust studs.

PARTS

PART NUMBER	PART DESCRIPTION	QUANTITY
SZ91016297	Spacer (45 mm)	6
SZ91016217	Spacer (8 mm)	6
SZ12610009	Stud (96 mm)	6
SZ12610012	Stud (56 mm)	6
SZ17810007	Nut (14 mm)	12
S171041610	Manifold Gasket	4
S241091860	Turbo Gasket	1
S171042010	EGR Cooler Gasket	2
S241791430	Intake Pipe Gasket	1
S241091860	Exhaust Connector Gasket	1
17451E0110	Exhaust Pipe Gasket	1

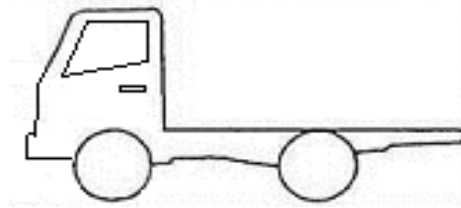
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SZ46910009	Clip (Water Return Pipe)	2
SZ43014003	Gasket (Water Pipe inlet/return)	8
SL72201210	Gasket (Oil inlet)	2
SL72201415	Gasket (Oil inlet)	2
S241351161	Gasket (Oil outlet)	2
17141E0260	Exhaust Manifold	As required

VEHICLE PREPARATION:

1. Park the vehicle on level and solid surface.



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



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3. Apply the parking brake.



4. Chock the front wheels.



REPAIR PROCEDURE:

WARNING: Touching a hot exhaust may result in burns or serious injuries. Do not touch the exhaust when hot.

1. Allow the engine to cool to the point where the exhaust is cool to the touch. Remove the exhaust manifold as outlined by section 11-3 of the Engine Workshop Manual. Retain the exhaust manifold for reinstallation.

2. First remove and discard any broken exhaust manifold studs from the cylinder head. Then, remove and discard all remaining exhaust manifold studs from the cylinder head. Clean the threads of the exhaust stud bores using a M10x1.5mm tap.

NOTICE: There are two different lengths of the studs to be installed in the cylinder head. Be sure to install each stud in the correct location.

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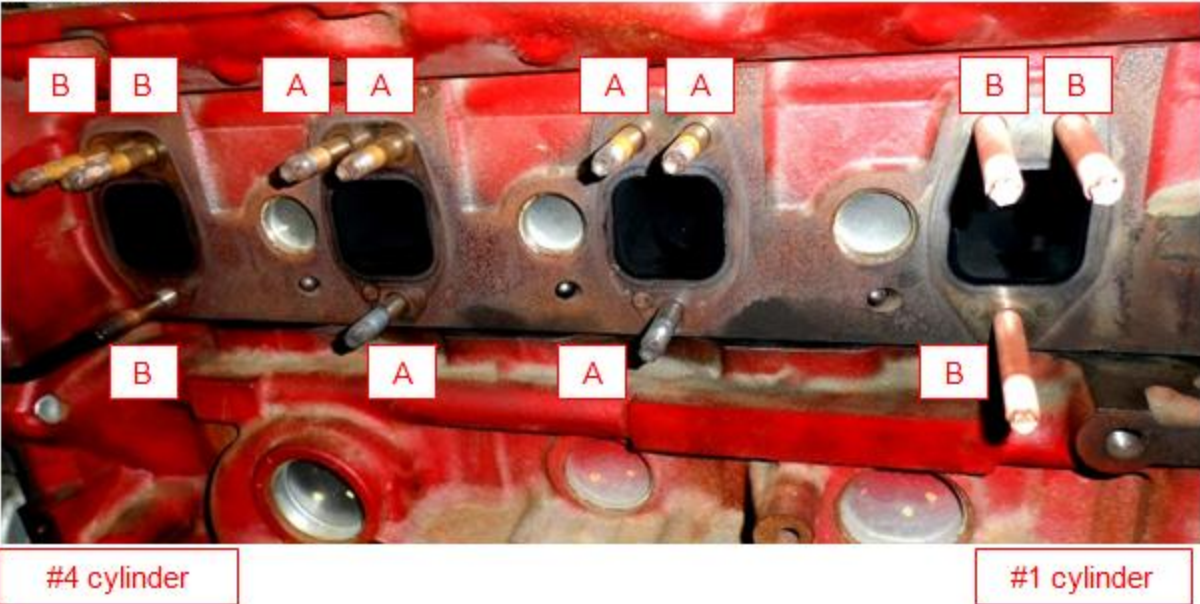
3. Install the new studs into the cylinder head as shown in the photograph below, referencing the table below for proper stud location. Tighten the studs to the specified torque..

Specified Torque: 22 lb-ft (30Nm)

NOTICE: Excessive torque on the exhaust manifold studs could cause the cylinder head to crack.

Location	Stud	
	Part Number	Length
A	SZ12610012	56 mm
B	SZ12610009	96 mm

Stud Locations



4. Check the exhaust manifold for excessive warpage using a calibrated straight edge and a feeler gauge. Across all 4 exhaust manifold ports, warpage should not exceed .009". If the warpage specification is exceeded, the exhaust manifold **MUST** be replaced.

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5. Install the exhaust manifold gaskets and exhaust manifold as outlined in the Exhaust section (11-7) of the Engine Workshop Manual.

NOTICE: There are two different lengths of the spacers to be installed. Be sure to install each spacer in the correct location.

Install the spacers as shown in the illustration below. Refer to the table below for the part number of each spacer. Install the 14mm nut (SZ17810007) onto each of the studs, and tighten the nuts to the specified torque following the torque sequence outlined in the workshop manual. Once all 12 nuts have been torqued to specification, re-torque them again in the same sequence.

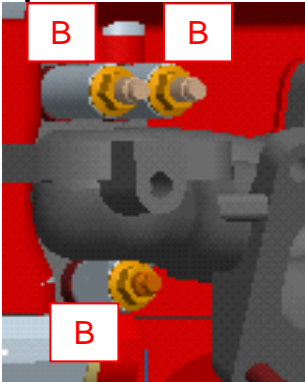
Specified Torque: 43.5 lb-ft (59 Nm)

NOTICE: Make sure that the spacer remains centered while tightening the nut.

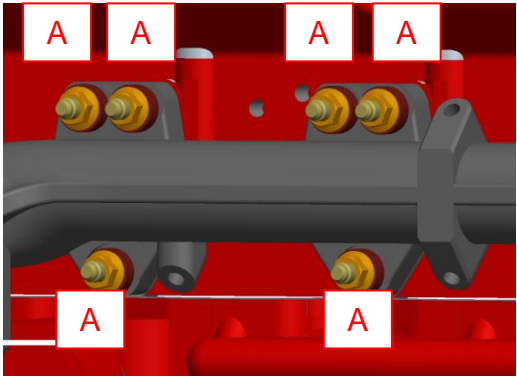
NOTICE: There is a different torque sequence for a new exhaust manifold compared to a previously used exhaust manifold. Be certain to reference the Workshop Manual for the proper torque sequence.

Location	Spacer	
	Part Number	Length
A	SZ91016217	8 mm
B	SZ91016297	45 mm

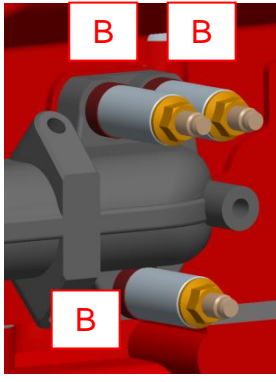
Spacer Locations



#4 cylinder



#2 & #3 cylinder



#1 cylinder

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6. Install the turbocharger, intake pipes, and exhaust pipe as outlined by the Engine Workshop Manual.

FINAL INSPECTION:

1. To complete this technical service bulletin, review the bulletin and confirm the following:

- All nuts and bolts have been tightened to their specified torque
- There are no exhaust leaks present

NOTE: This repair may be eligible for reimbursement if a product failure was experienced within the time and mileage limits of the applicable warranty coverage. Reimbursement is obtained via normal claim handling process.

Claim Application:

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

- a) Labor Charge: 3.0 Hrs*
- b) Warranty Code: 05211
- c) Trouble Code 50
- d) Operation Code: 05201BRE
- e) Part Number: 9999999

*If additional labor time is needed to drill out or extract broken exhaust studs, use operation code **05250AOT** to reflect actual work time.