



SERVICE BULLETIN

**SB-20-001 P0421 DIAGNOSTIC TROUBLE CODE
(DTC) SERVICE BULLETIN**

**GROUP: 0-GENERAL
BULLETIN NO: SB-20-001
DATE: 3-19-2020**

SUBJECT VEHICLES: Certain 16MY-20MY Cab-Over Engine (COE) Trucks equipped with a J05 engine or Conventional Trucks equipped with a J08 engine.

OVERVIEW:

If a truck comes to the dealer with a MIL lamp illuminated with the Diagnostic Trouble Code (DTC): P0421 – Determination of ATC Deterioration.

Replace the ATC as required following the repair procedure below.

CONVENTIONAL PARTS:

Part Number	Part Description	Quantity
17401E0P30	ATC Pipe (16MY-17MY)	1
17401E1550	ATC Pipe (18MY-20MY)	1
S241091830	Gasket	1
21814E0140	Stud	4
21814E0290	Bolt	2
SZ17810012	Nut	2
S171041580	Gasket	1
SZ12608006	Stud	4
SZ17810007	Nut	4
17451E0100	Gasket	1
S171041580	Gasket	2



COE PARTS:

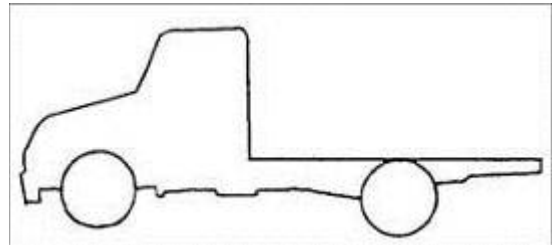
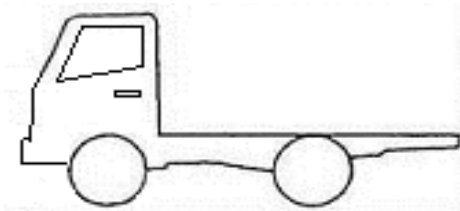
Part Number	Part Description	Quantity
17401E1230	ATC Pipe (16MY-17MY)	1
1740E1450	ATC Pipe (18MY-20MY)	1
1745178061	Gasket	1
17451E0110	Gasket	1
SZ11610171	Stud	3
SZ91016223	Washer	3
SZ17810007	Nut	3
9011910817	Bolt	3

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.

VEHICLE PREPARATION:

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



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



3. Apply the parking brake.



4. Chock all of the wheels.



REPAIR PROCEDURE:

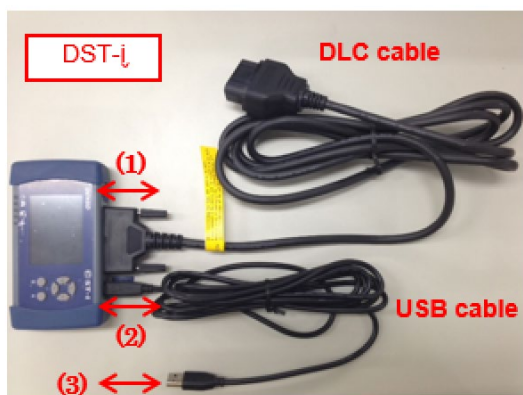
1. Prepare a DXII compatible interface, such as the Denso DST-i or the Nexiq USB Link 2 to perform this procedure.

To assemble the interface cable, perform the following steps.

(1) Connect the DLC (Diagnostic Link Connector) cable to the interface.

(2) Connect the USB Cable to the interface.

(3) Connect the USB connector to the USB port on your computer.



2. Connect the DLC cable to the vehicle's DLC connector. The DLC connector is found under the dash on the left side of the steering column. Check for the P0421 code.



3. Check the exhaust brake adjustment. For additional information, refer to TT-19-005.

4. Remove the right hand side inner fender.

5. Replace the ATC catalyst pipe.

REMOVAL

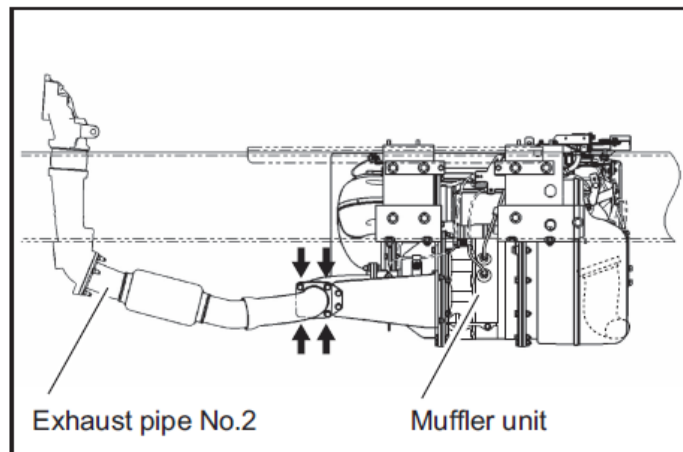
Remove the exhaust pipe No.1 (ATC)

NOTICE: The ATC will have to be replaced together with the exhaust pipe No.1 (ATC).

Remove the exhaust pipe No.2

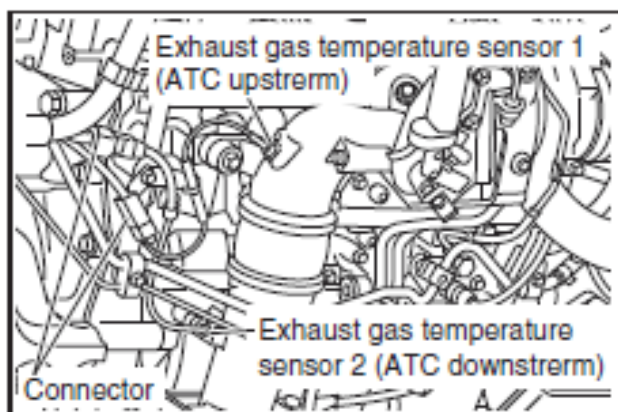
Remove the bolts and nuts on the flange on the muffler unit side.

Remove the after treatment system.



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Disconnect the exhaust gas temperature sensor 1 (ATC Upstream) of the connector and the exhaust gas temperature sensor 2 (ATC Downstream) of the connector.



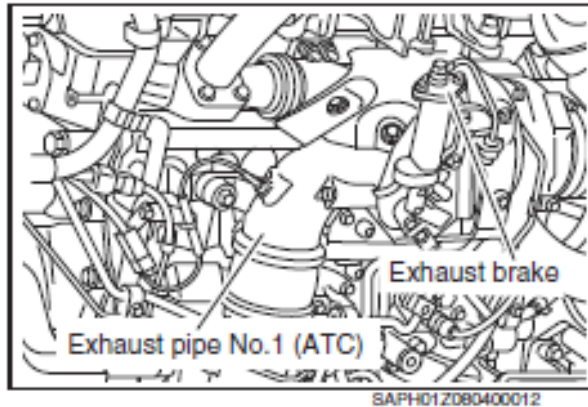
SAPH01Z080400014

Remove the exhaust pipe No.1 (ATC)

(1) Unfasten the bolts (4 pcs.) to remove the bracket from the exhaust

pipe No.1 (ATC).

(2) Unfasten the nuts (3 pcs.) to remove the exhaust pipe No.1 (ATC) and gasket from the exhaust brake.



INSTALLATION

NOTICE: The ATC will have to be replaced together with the exhaust pipe No.1 (ATC).

Mounting the exhaust pipe No.1 (ATC)

(1) Replace with a new gasket and temporarily tighten the exhaust pipe No.1 (ATC) to the exhaust brake with nuts (4 pcs.).

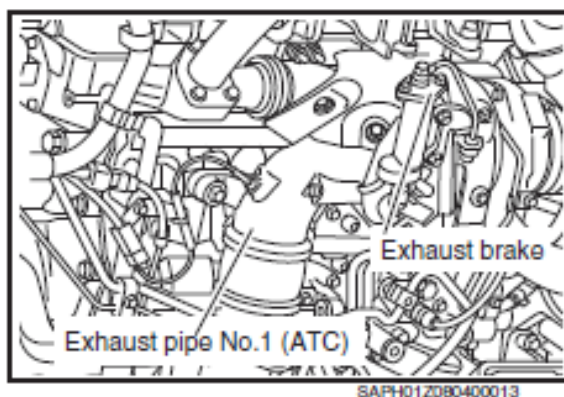
(2) Temporarily tighten the bracket with the bolts.

(3) Tighten the bracket fully.

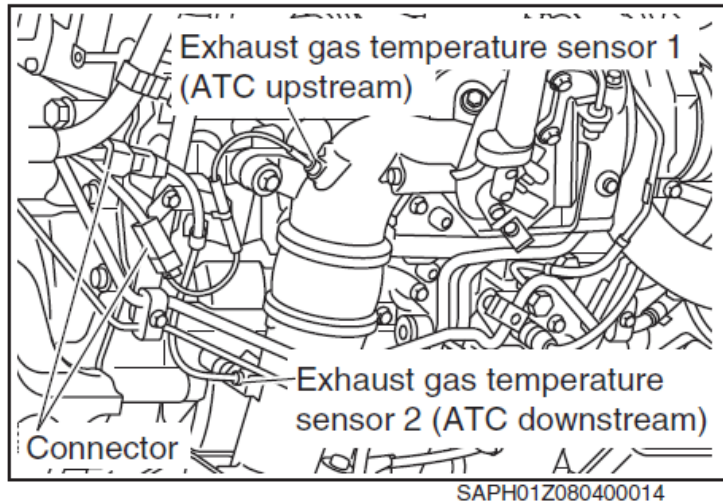
Tightening Torque: 55 Nm {40.6 lb-ft}

(4) Tighten the exhaust pipe No.1 (ATC) fully.

Tightening Torque: 70 Nm {52 lb-ft}



Connect the exhaust gas temperature sensor 1 (ATC UPSTREAM) of connector and exhaust gas temperature sensor 2 (ATC DOWNSTREAM) of connector.



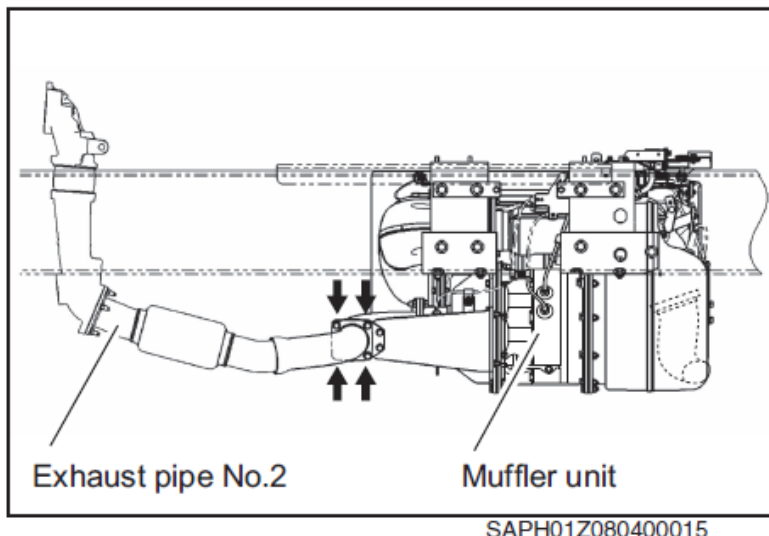
MOUNTING THE AFTERTREATMENT FUEL INJECTOR

Reference: EXHAUST SYSTEM (J08E)/(J05E),
AFTERTREATMENT FUEL INJECTOR, OVERHAUL,
MOUNTING AFTERTREATMENT FUEL INJECTOR

CONNECTING THE EXHAUST PIPE No.2

(1) Tighten the exhaust pipe No.2 fully.

Tightening Torque: 56-84 Nm {41.3-61.9 lb-ft}



FINAL INSPECTION:

1. To complete this procedure review the steps of the repair procedure and confirm the following:
 - All nuts and bolts have been tightened to their specified torque
 - There are no exhaust leaks present
 - Using Hino DX2, ensure all codes have been cleared prior to releasing the truck back to the customer.

Note: This technical service bulletin is provided as technical information and is not authorization for a warrantable repair.

CLAIM APPLICATION

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

ATC Diagnosis and Replacement:

- a) Total Labor charge: Conventional 3.6 hrs. and COE 3.0 hrs.
- b) Warranty code: 11316
- c) Trouble code: 40
- d) Operation codes: **See Below**

11350AOT DX Diagnosis/Codes	0.2
11250AOT Exhaust Brake Check/Adjustment	0.5
11301CRE ATC Replacement	2.9 (Conv.) / 2.3 (COE)

