

# Authorized Field Change



**AFC 04905**

**Date:** July, 2004

**Subject File:** ENGINE

**Subject:** 9000i Models Built at the Escobedo Assembly Plant, Between August 1, 2002 and February 12, 2004, with Post 2002 Emission Cummins ISM Engines have the Heater Piping Mounting Bracket Mislocated on the Engine

Truck Model: 9000i

Start Date: 08/01/2002 End Date: 02/12/2004

## DESCRIPTION

9000i Models built in Escobedo have the heater piping bracket mounted to the engine valve cover instead of the engine block. When the bracket is mounted to the engine valve cover, the bracket may contact the EGR pipe and may result in a failure of the EGR pipe bellows and exhaust leakage.

## PARTS INFORMATION

Table 1

Part Number	Description	Quantity
NPN	M10 X 20 Flange Head Bolt	1
Cummins 3102967	EGR Connection Tube	1
Cummins 3102650	Connection Tube Clamp	1

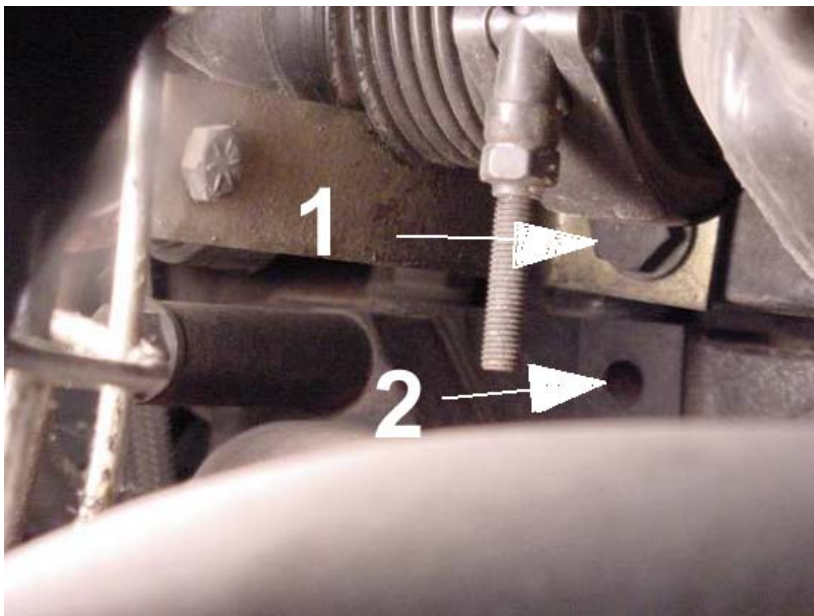
## SERVICE PROCEDURE



**WARNING – To avoid property damage, personal injury, or death:**

- park the vehicle on a flat level surface
- set the parking brake
- turn the engine off and chock the wheels
- allow the engine to cool before performing the Service Procedure.

1. Locate the heater pipe mounting bracket (Figure 1), remove the mounting bolt and relocate the mounting bracket and mounting bolt to the lower hole as shown in Figure 1, Item 2.

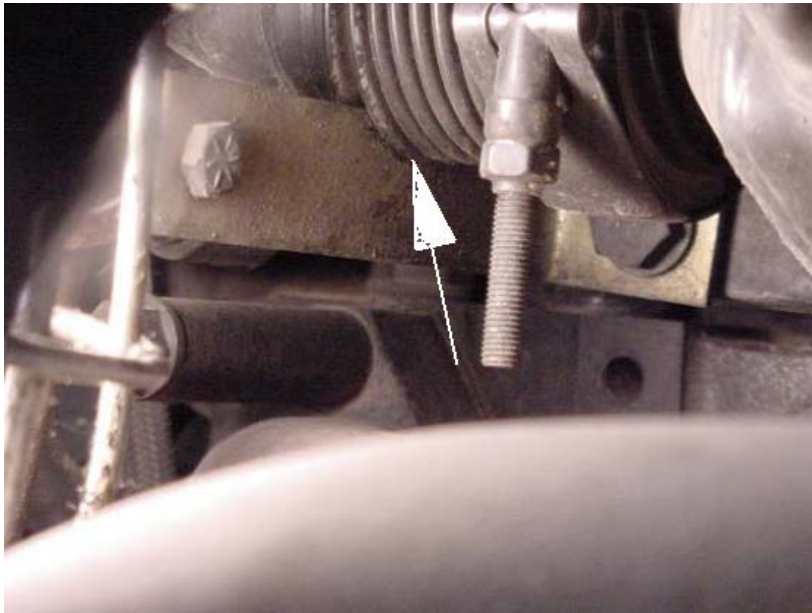


**Figure 1 Relocate Bracket to Hole 2**

1. Valve Cover Hole
2. Correct Hole in Engine Block

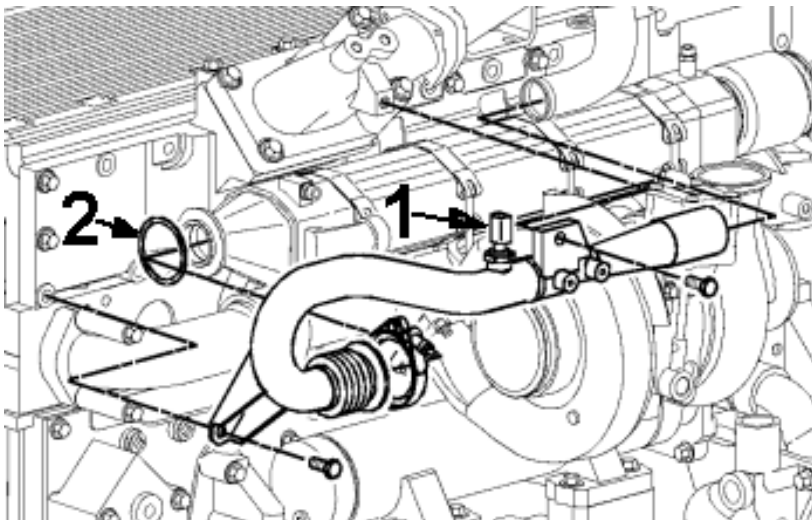
2. Inspect the bellows of the EGR connector pipe for evidence of contact with the heater pipe bracket (Figure 2).
  - A. If there is no evidence of contact, the EGR connector tube does not need to be replaced.
  - B. If there is evidence of contact between the heater pipe bracket and the EGR connector pipe bellows, the EGR connect pipe needs to be replaced. Continue to the next Step.

## SERVICE PROCEDURE (CONT.)



**Figure 2 EGR Connector Pipe Bellows Shown at Arrow**

3. Remove the EGR connector pipe fasteners, clamps, sensor, seal, and EGR pipe as shown in Figure 3. Retain the fasteners, clamps, sensor, and seal for reuse.

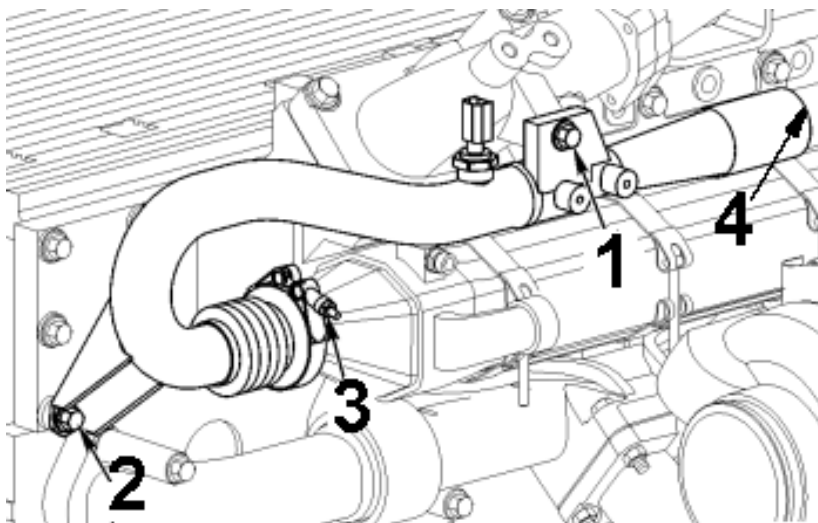


**Figure 3 EGR Connector Pipe Removal**

1. EGR Sensor
2. Seal

4. Install new EGR Connector pipe. Refer to Figure 4 and Table 2.

## SERVICE PROCEDURE (CONT.)



**Figure 4 Tighten Fasteners and Clamps**

1. Upper EGR Connector Pipe Cap Screw
2. Lower EGR Connector Pipe Cap Screw
3. V-Band
4. Clamp

**Table 2 Torque Chart**

Figure 4 Item Number	Torque Specification
1	32 to 39 Lbf-ft (43 to 53 Nm)
2	32 to 39 Lbf-ft (43 to 53 Nm)
3	135 to 165 Lbf-in (15 to 19 Nm)
4	54 to 75 Lbf-in (6 to 8 Nm)

Operation number must appear on all claims.

**Table 3 Labor Information**

Operation No.	Description	Time
A40-04905-1	Relocate Heater Pipe Bracket to Correct Location and Inspect EGR Connection Tube	0.5 Hr.
A40-04905-2	Relocate Heater Pipe Bracket to Correct Location and Replace EGR Connection Tube	2 Hr.

### ADMINISTRATIVE PROCEDURE

Expense is to be charged to Warranty. Claims are to be submitted in the normal manner, making reference to Authorized Field Change Number G-04905.

It is important that the coding be completed properly to assist in processing the warranty claim. Complete instructions will be found in the Warranty Manual, Section 7-1. Special attention should be given to Items 39 through 44.

To assure this important improvement is made in a timely manner, all claims for G-04905 activity must be submitted by July 31, 2005 or within the normal warranty period for the vehicle, if after July 31, 2005.

	GROUP	NOUN	C	WARR.	TP	PAD
GROUP Enter number G—						
NOUN Leave blank						
C (CAUSE) Enter either 1, 2, 3. (see below)						
1. Inspected (No repair required).						
2. Inspected and repaired.						
3. Defective part from parts stock.						
WARRANTY (Warranty Code) Enter 40.						
TYPE PART Enter P for type part causing failure.						
PAD Enter 100						

Distribution: All except J-81  
Reproduction: Not required.

**Figure 5**