



# Warranty Field Campaign

<b>Campaign Number:</b> c2532	<b>Revision:</b>	<b>Released Date:</b> 10-Feb-2022
<b>X12 CM2350 X119B and X12 CM2450 X137B Fuel Injector Supply Line Safety Campaign</b>		<b>Expiration Date (U.S. and Canada):</b> 01-Feb-2052
		<b>Expiration Date (International):</b> 01-Feb-2052

## Attention

- Worldwide distr./ branches and Div./Reg Offices
- U.S. / Canadian Distr./Branches and Div. Offices
- U.S. / Canadian Dealers (Automotive)

**If additional information is required, please contact your Cummins Warranty Operations Group Leader.**

## Description

This Safety Campaign is being issued to address an issue on certain X12 CM2350 X119B and X12 CM2450 X137B units in which the fuel tubes between the fuel rail and the injector for cylinders 4, 5 and 6 may be susceptible to cracking, resulting in a high pressure fuel leak. A high pressure fuel leak in the presence of an ignition source may increase the risk of a fire.

Cummins has reported this issue to the U.S. National Highway Traffic Safety Administration (NHTSA), which has assigned it Recall Number 21E-099.

**Note :** This field action provides retroactive coverage for repairs made in anticipation of and prior to the release of this publication.

## Action

In order to qualify for repair under this field action, an engine:

1. will be covered regardless of coverage status, and
2. **must** show as OPEN on QuickServe® Online for this field action.

**Note :** The ESN list is attached for reference.

After verifying that the engine meets the above requirements, perform the following actions:

1. Replace the fuel injector supply lines 4, 5, and 6 with new fuel lines and vibration isolators. Refer to Attachment B for detailed instructions to complete the repair.
2. If vibration isolators are already installed on injector supply lines 4, 5, and 6, no further action is needed. File a claim for admin **ONLY** and close the eligibility of the engine for C2532.
3. File one claim for the listed parts and required labor associated with this repair.

## Material Disposition

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Materials removed as a result of this field action **must** be scrapped.

## Reimbursements

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### Parts

**Note** : Parts listed are OPTIONAL. Claim **only** the parts required to complete the repair.

The following parts are covered under this field action:

Part Number	Quantity	Description
631926700	1	KIT,TUBES AND ISOLATORS (OPT)

**Note** : SRTs to gain access that are required to complete the repair, that are sufficiently explained in the claim narrative, may also be claimed on this action.

**Note** : All SRTs listed are OPTIONAL. Select **only** the appropriate SRTs required to complete the repair. SRT 11-0GB EGR Crossover Tube - Remove and Install - X12 CM2350 X119B and SRT 11-13K EGR Crossover Tube - Remove and Install - X12 CM2450 X137B are **NOT** allowed to be claimed on this field action.

### Labor Using Applicable Access Code and Time

SRT Code	Description	Time (hrs)
00-90X	Administrative time	
06-0GX	Injector Supply Lines (High Pressure) - Remove and Install, First - X12 CM2350 X119B	
06-0GZ	Injector Supply Lines (High Pressure) - Remove and Install, Each Additional - X12 CM2350 X119B	

SRT Code	Description	Time (hrs)
06-0Z5	Injector Supply Lines (High Pressure) - Remove and Install, First - X12 CM2450 X137B	
06-0Z6	Injector Supply Lines (High Pressure) - Remove and Install, Each Additional - X12 CM2450 X137B	

## Travel

Travel is covered under this field action. Towing is covered under this field action.

**Note :** Please schedule the Technicians time to maximize the number of units that can be repaired on a single visit. When filing claims for multiple ESNs, where travel or towing is required, travel or towing can be filed to **ONLY** one (1) ESN.

## Other Claimables

Consumables are **not** covered under this field action.

## Claim Instructions

For Cummins Dealers, claims for this Field Campaign **must** be filed via **RAPIDSERVE™** Web (rsw.cummins.com). For information regarding **RAPIDSERVE™** Web, please reference the "Warranty" tab in QuickServe® Online. If there are additional questions, please contact your local Cummins Distributor.

Claim Codes	
Description	Code
Account Code:	65
Pay Code:	North America Distributor = X
Pay Code:	North America Dealer = D
Pay Code:	International Distributor = I
Pay Code:	International Dealer = R
Failure Code:	WFLISB

## Attachments

[Click here to see c2532\\_esn-list.xlsx](#)

(/service/english/attachments/c2532\_esn-list.xlsx) Click here to see c2532\_repair\_instructions\_attachment-b.pdf

(/service/english/attachments/c2532\_repair\_instructions\_attachment-b.pdf)

Engine Family	Fuel System
Design Application	Market Application
All	All
All	All

## Document History

Date	Details
	Document Created; 10-Feb-2022

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**Last Modified: 10-Feb-2022**

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## X12 Fuel Injector Supply Line Campaign Procedure

The purpose of this campaign is to replace Injector Supply Lines and add Vibration Isolators on the Fuel Lines for cylinders 4, 5, and 6.

### Verification

- Locate Injector Supply Lines on cylinders 4, 5, and 6.
- Check to see if there are Vibration Isolators installed on the Injector Supply Lines. See Figure 1 below.
- If there are Vibration Isolators installed on Injector Supply Line 4, 5, and 6 then no further action is needed.
- If there are **NO** Vibration Isolators installed on Injector Supply Lines 4, 5, and 6 then proceed with the campaign instructions below.

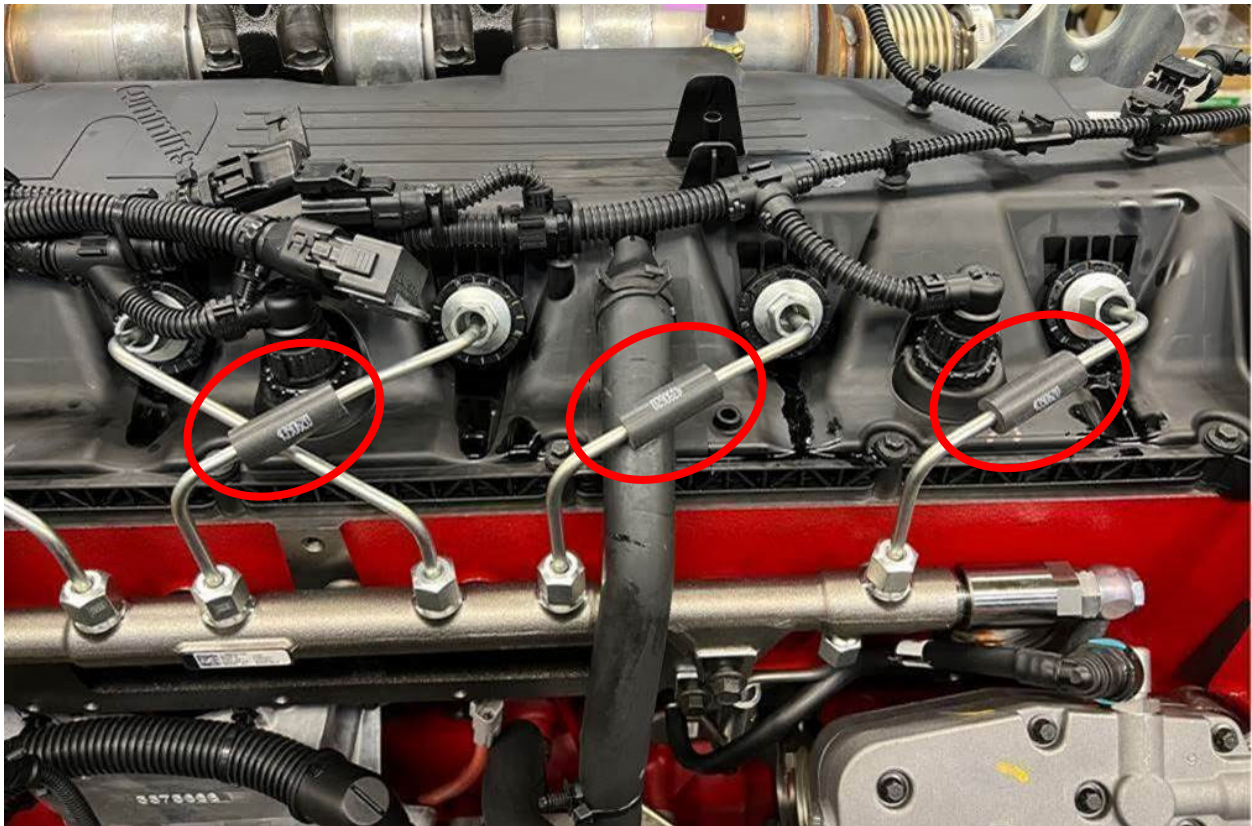


Figure 1: Location and example of what the Injector Supply Line Vibration Isolators look like. (Please note that the lines and Vibration Isolators may be painted if they were installed at the factory.)

### Recommended Cummins® Service Tools

- Contact cleaner, Part Number 3824510, or equivalent
- Fuel System Clean Care Kit, Part Number 4919073, or equivalent

### Required Part

Part Description	Part Number	Quantity
Kit with 3 Vibration Isolators and Injector Supply Lines 4, 5, and 6	6319267	1

### Service Instructions

Follow the steps below to remove the Fuel Injector Supply Lines for cylinders 4, 5, and 6 and replace with new Fuel Injector Supply Lines with Vibration Isolators supplied in the parts kit.

#### **⚠ WARNING ⚠**

**Fuel is flammable. Keep all cigarettes, flames, pilot lights, arcing equipment, and switches out of the work area and areas sharing ventilation to reduce the possibility of severe personal injury or death when working on the fuel system.**

#### **⚠ WARNING ⚠**

**Normal engine operation creates highly pressurized fuel in the fuel line which will remain in the fuel line after engine shutdown. Never open the fuel system when the engine is operating. Before servicing the fuel system, always loosen the pump to rail fuel line at the rail to vent the pressure. Keep hands clear of the line when loosening. High-pressure fuel spray can penetrate the skin, resulting in serious personal injury or death.**

#### **⚠ WARNING ⚠**

**When servicing the engine, do not use the starting motor to rotate the engine with a high-pressure fuel system joint open. Rotating the engine can create highly pressurized fuel in the fuel system. High-pressure fuel spray can penetrate the skin, resulting in serious personal injury or death.**

1. Before starting the removal and installation of the Injector Supply Lines, loosen the pump to rail line at the rail to vent the fuel pressure. Keep your hand clear of the line when loosening the fuel rail nut. See Figure 2.

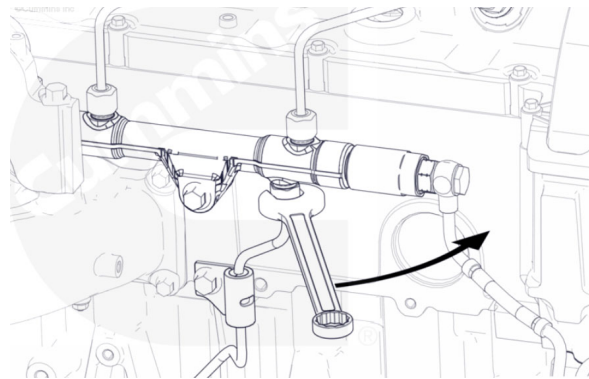


Figure 2: Location for relief of fuel pressure in the system

2. Tighten the fuel rail nut back to 31 Nm (23 ft-lbs).

**⚠ WARNING ⚠**

Batteries can emit explosive gases. To reduce the possibility of personal injury, always ventilate the compartment before servicing the batteries. To reduce the possibility of arcing, remove the negative (-) battery cable first and attach the negative (-) battery cable last.

**⚠ WARNING ⚠**

Fuel is flammable. Keep all cigarettes, flames, pilot lights, arcing equipment, and switches out of the work area and areas sharing ventilation to reduce the possibility of severe personal injury or death when working on the fuel system.

3. Disconnect the batteries. See equipment manufacturer service information.
4. Clean the fittings and area around the connection points for Injector Supply Lines 4, 5, and 6 using electrical contact cleaner.
5. Remove Injector Supply Lines 4, 5, and 6.
6. Cover the openings with clean care caps.
7. Break the capscrews for the fuel rail loose and then tighten them back up just enough so the fuel rail does not move. DO NOT fully torque the fuel rail capscrews back down.
8. Install a Vibration Isolator on each of the Fuel Injector Supply Lines 4, 5, and 6.
  - a. Make sure the Vibration Isolators are installed firmly on the straight section on the upper half of the Fuel Injector Supply Lines.
  - b. Make sure there is a gap between the Vibration Isolator on Fuel Injector Supply Line #5 and the Crankcase Breather Tube. See figure 3.
    - i. If there is contact between the Vibration Isolator and the Crankcase Breather tube, then you either need to try to position the Crankcase Breather Tube better or you can slide the Vibration Isolator up the fuel line farther. The Vibration Isolator must **NOT** be positioned past the bend in the fuel line. See Figure 4 below to see where the Vibration Isolators can be installed.
    - ii. Some configurations may have other interferences as well, see figure 5. The Vibration Isolator must not come in contact with any other component.



Figure 3: Example of the gap that should be present between the Vibration Isolator on Fuel Injector Supply Line #5 and the Crankcase Breather Tube





Figure 4: Visual reference for where the Fuel Injector Supply Line the Vibration Isolators can be installed. The Vibration Isolators **MUST** be installed between the bends of the fuel line or between the red lines in the example above.

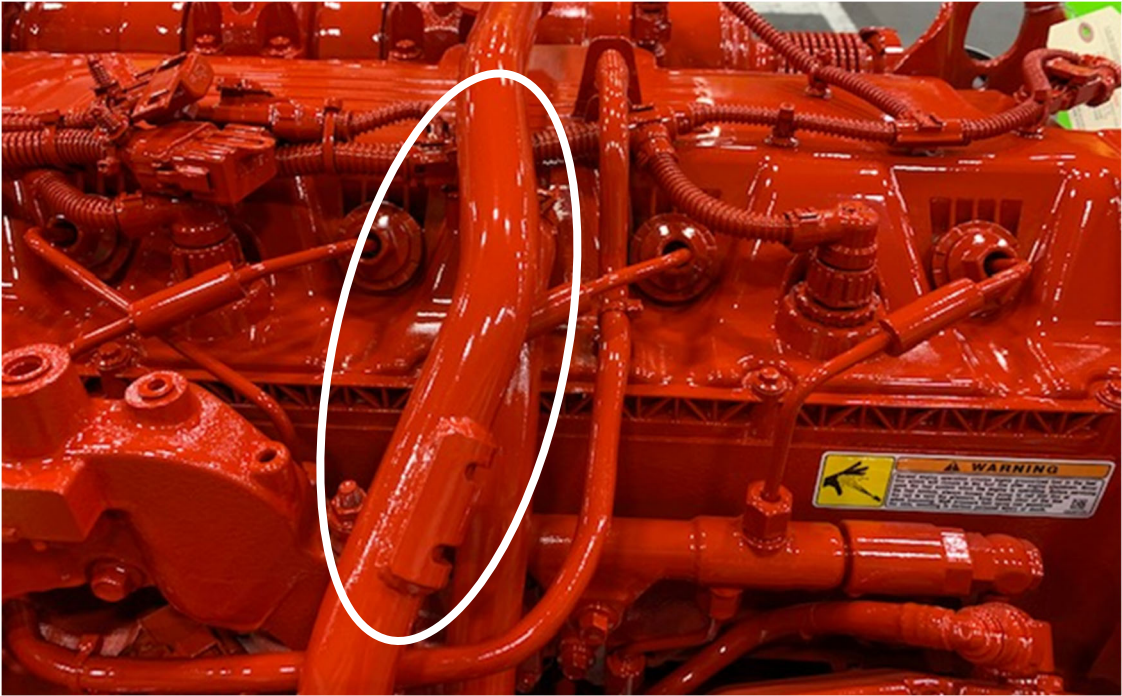


Figure 5: Some configurations may have a Compressor Air Inlet Tube going above line #5. Make sure the Vibration Isolator does not come into contact with this tube or any other component.



9. Using clean engine oil, lubricate the three Fuel Injector Line grommets in the rocker cover before fitting the Fuel Injector Lines.
10. Install the Fuel Injector Supply Lines one at a time following the steps below.
  - a. Hand tighten the Fuel Injector Line Nut at the Injector. Make sure the lines are centered within the nut.
  - b. Hand tighten fuel line nut at the rail. Make sure the line is centered within the nut.
  - c. Torque the injector end of the Fuel Injector Line to 31 Nm (23 ft-lb).
  - d. Torque the Fuel Rail end of the Fuel Injector Line to 31 Nm (23 ft-lb).
11. Repeat steps a – d for the other two Fuel Injector Supply Lines.
12. Torque the capscrews for the rail to 46 Nm (36 ft-lb).
13. Connect the batteries. See equipment manufacturer service information.
14. It is **not** necessary to vent air from the high-pressure fuel system before starting the engine. Cranking the engine will prime the fuel system.
15. Operate the engine. Check for leaks.
16. Destroy the 3 Fuel Injector Supply Lines that were removed from the engine.