Service Bulletin

Bulletin No. 2007-66R1
CMD 2007-06R1

Circulate to: ☐ Sales Manager ☐ Accounting ☑ Service Manager ☑ Technician ☑ Parts Manager

Official Recall Notification U.S. Federal Boat Safety Act—QSD 4.2 ECM Bolt Interference with Fuel Line

Models Affected

Models Covered	Serial Number
QSD 4.2	88401000 to 88401008
	88406003 to 88406005
	88406011 and 88406014
	88406016 to 88406085
	88406087, 88406090, and 88406091
	88406093 to 88406105
	88406107 to 88406117

Situation

The Engine Control Module (ECM) mounts to a bracket using rubber vibration dampers with threaded studs at both ends. Engines within the serial number range have ECM vibration dampers with studs that are of equal length on both ends. When the ECM vibration dampers are installed, the studs attaching the vibration dampers to the ECM mounting bracket may protrude far enough to make contact with the high pressure fuel lines for cylinders number 1 and 3.

Correction

Replace all four ECM vibration dampers with new parts that have a shorter stud length on one side. Inspect the high-pressure fuel lines for damage and replace them if necessary. Refer to the procedure below.

Parts Required

Qty.	Description	Part Number
4	Vibration damper	898101572

If the fuel lines are damaged, order these additional parts:

Qty.	Description	Part Number
1	Pipe Kit	898101419

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Replacement Procedure

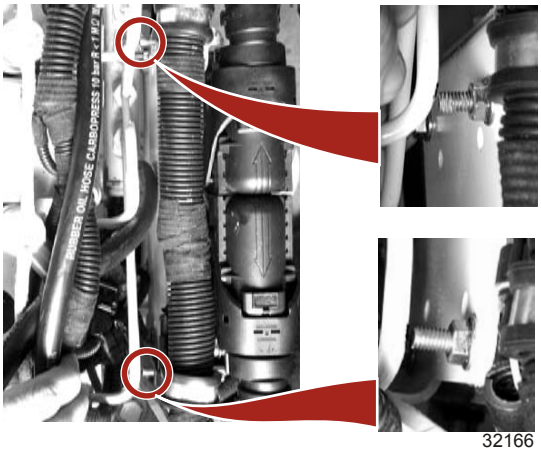
⚠ WARNING

Performing service or maintenance without first disconnecting the battery can cause product damage, personal injury, or death due to fire, explosion, electrical shock, or unexpected engine starting. Always disconnect the battery cables from the battery before maintaining, servicing, installing, or removing engine or drive components.

⚠ CAUTION

Disconnecting or connecting the battery cables in the incorrect order can cause injury from electrical shock or can damage the electrical system. Always disconnect the negative (-) battery cable first and connect it last.

1. Disconnect the battery cables.
2. Locate the ECM mounting bracket and the ECM vibration damper studs at the top and front of the cylinder head.



32166

Locations of possible interference

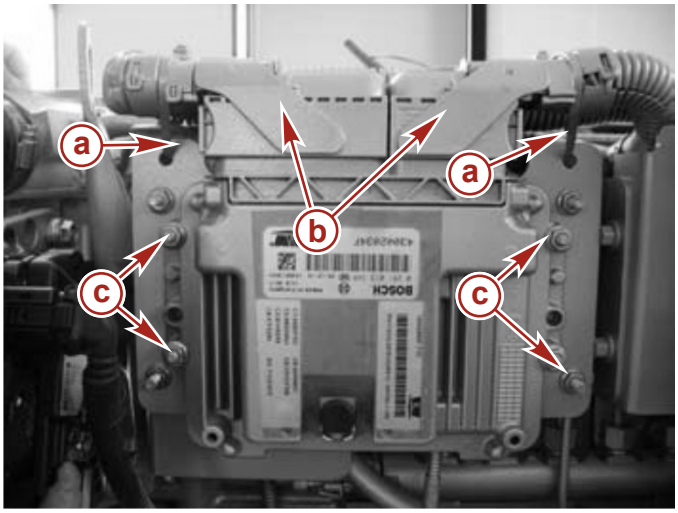
3. Inspect for interference with the top two vibration damper studs and the high pressure fuel lines for cylinders number 1 and 3 . Replace fuel lines that are damaged. Refer to the appropriate CMD engine service manual.
4. Cut the plastic cable ties anchoring the ECM harnesses to the ECM mounting bracket (if equipped).
5. Disconnect the two harness connectors from the ECM.

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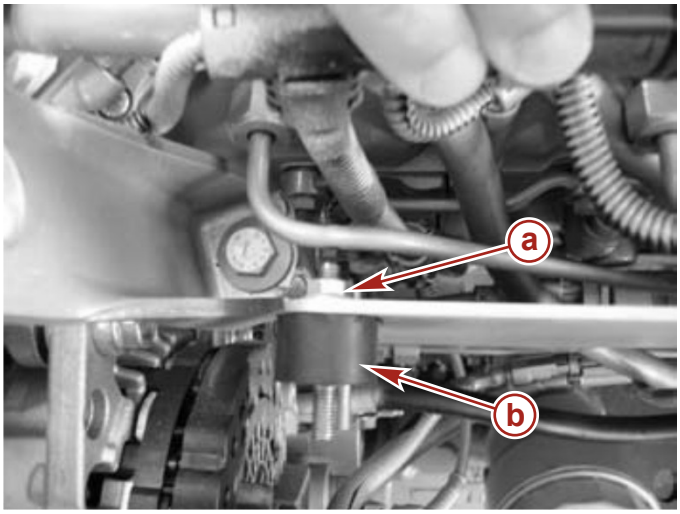
6. Remove the four flange nuts connecting the ECM plate to the vibration dampers.



32147

a - Cable ties
b - ECM harness connectors
c - Flange nuts

7. Remove all four vibration dampers by loosening the flange nut on the rear of the ECM mounting bracket.



32145

a - Flange nut
b - Vibration damper

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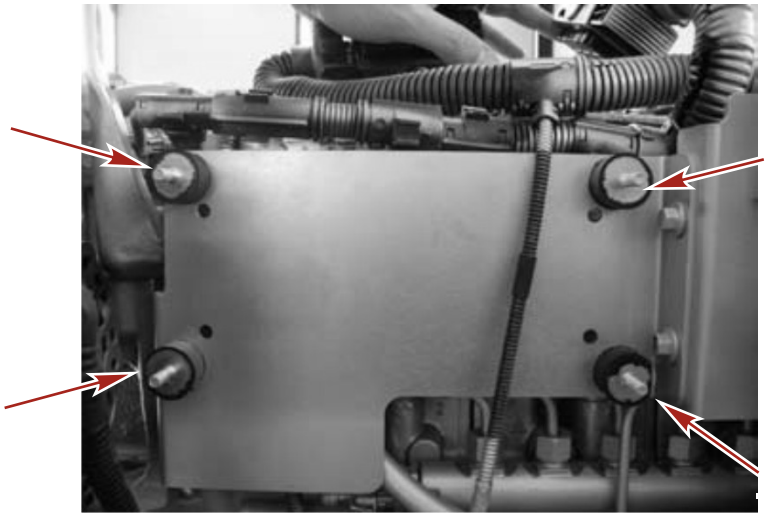
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8. Install the four new vibration dampers with the shorter stud toward the engine.



32155

Vibration damper with short stud toward engine



32146

Vibration damper ECM mounting studs

9. Torque the four flange nuts attaching the vibration dampers to the ECM mounting bracket to specification.

Description	Nm	lb. in.	lb. ft.
Flange nuts	10.8	--	8.0

10. Install the ECM on the mounting bracket vibration dampers.
11. Torque the four ECM retaining flange nuts to specification.

Description	Nm	lb. in.	lb. ft.
Flange nuts	10.8	--	8.0

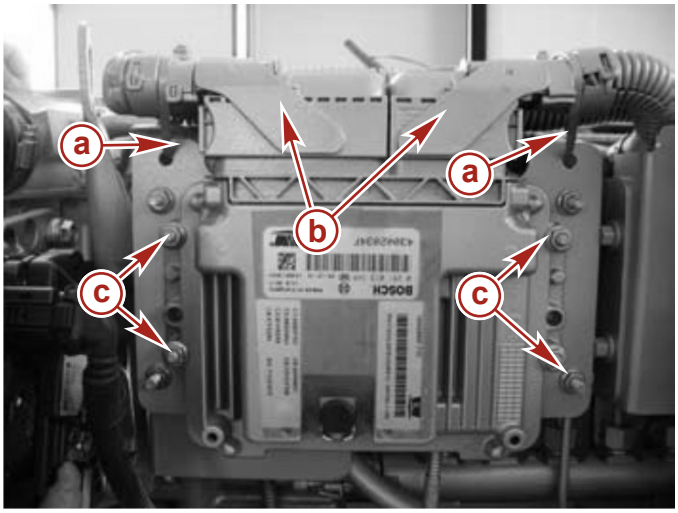
12. Reconnect the ECM harness connectors.

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13. Secure the ECM wiring with new cable ties.



32147

a - Cable ties
b - ECM harness connectors
c - Flange nuts

⚠ CAUTION

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14. Connect the battery cables.
15. If replacing the fuel lines, refer to **Service Manual #47—CMD QSD 2.8L & 4.2L Engines** for replacement procedures.
16. If replacing the fuel lines, start the engine, allow it to reach normal operating temperature, and check for fuel leaks.

Warranty

Cummins MerCruiser Diesel will credit the dealer for the cost of parts, labor, and reasonable travel through 09/01/2011. Submit a warranty claim through your normal warranty processing channel, listing:

- Engine serial number
- Part Code—446
- Failure Code—00
- Flat Rate Code and Labor

Labor Code	Flat Rate
MJ23	0.5
EXCP	0.5
If Fuel Lines Are Damaged—Additional Labor	
MF15	0.5

Disposition of Old Part or Parts:

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1. **USA and Canada**: Scrap
2. **International**: Follow instructions issued by your Marine Power International office or by your distributor.

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Dear Cummins MerCruiser Diesel Customer:

SUBJECT: ECM Bolt Interference with Fuel Line.

Our records indicate that you are the owner of a Cummins MerCruiser Diesel product included in a recall being performed in compliance with the Federal Boat Safety Act. It is necessary to have the fuel lines inspected and the ECM vibration dampers replaced on your product. Replacing the vibration dampers will ensure that there is no interference with the fuel lines.

WHAT YOU SHOULD DO

Contact your authorized Cummins MerCruiser Diesel dealer and make arrangements to inspect the fuel lines and replace the ECM vibration dampers. The dealer will refer to Cummins MerCruiser Diesel Service Bulletin 2007-66R1 for instructions. You must deliver your boat to the dealer and present this letter to the dealer.

WHAT WE WILL DO

We will reimburse the dealer for performing this recall in accordance with the instructions outlined in the Service Bulletin. There will be no cost to you to have this work performed.

We apologize for any inconvenience this recall may cause you; however, we have taken this action to ensure that your boating experience will be enjoyable and trouble free.

Sincerely,

Cummins MerCruiser Diesel Service Department

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