



Service Bulletin

Bulletin No. 2005-72
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Circulate to: Sales Manager Accounting Service Manager Technician Parts Manager

Recreational Craft Directive Amendment

Models Affected

Model	Serial Number Range
Quantum & Diamond series engines, (except 4B-155)	All
1.7 WO / PS	88130150 and above
1.7 W / PS	88142000 and above
1.7L IB	88121100 and above
2.8L 170	88005200 and above
4.2L 200	88020200 and above
4.2L 230	88030400 and above
4.2L 250	88040600 and above
4.2L 270	88060001 and above
4.2L 300	88050800 and above
4.2L 320	88070001 and above

Situation

This publication is intended provide important information regarding the new Recreational Craft Directive (RCD) amendment. This publication will address the question of how this will affect the service community and the compliance of all Cummins MerCruiser Diesel (CMD) products to RCD.

Background

On January 1, 2006, an amendment to the European Union's Recreational Craft Directive (RCD) goes into effect for diesel engines. The amendment affects noise and exhaust emission regulations. Refer to 94/25/EC for the entire RCD Directive and 2003/44/EC for the new amendment.

The amendment will require specific noise and exhaust emissions regulations relating to recreational marine diesel propulsion engines. The exhaust emission requirements are the responsibility of the engine manufacturer. The noise emissions requirements are the responsibility of the boat manufacturer unless the engine is supplied with an integral exhaust, such as a sterndrive engine (jetdrive exhaust is not considered integral exhaust). Refer to www.cmdmarine.com for additional information.

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Important Information

- The European Union (EU) verifies vessel and engine compliance at the time of entry into the EU.
- The RCD amendment addresses two areas: noise and exhaust emissions.
- CMD is responsible to provide the appropriate exhaust emissions Declaration Of Conformity (DOC) with every engine entering the EU regardless of the exhaust system it uses.
- CMD is responsible to provide the appropriate noise emissions DOC with engines entering the EU only if they use an integral exhaust system.
- Only sterndrive engines using an integral exhaust system supplied by CMD would require both an exhaust and a noise emissions DOC to be supplied by CMD.
- The OEM is responsible for testing and providing the necessary noise emissions DOC if the engine in the vessel does not have an integral exhaust system.

CMD Engines—Certification Status

All **Quantum and Diamond series engines**, with the exception of 4B 155 engines, meet the exhaust emissions requirements.

CMD 2.8L and 4.2L engines comply with both exhaust (for all engine configurations) and noise (for sterndrive engine configuration only) emissions requirements beginning with engine serial numbers listed in Table 1. An engine with a serial number before those starting serial numbers does not comply and a DOC can not be provided.

CMD 1.7L engines comply with both the exhaust (for all engine configurations) and noise (for sterndrive engine configuration only) emissions requirements beginning with engine serial numbers listed in Table 2. An engine with a serial number before those starting serial numbers does not comply and a DOC can not be provided.

Table 1

Engine Model	Starting Serial Number
2.8L 170	88005200
2.8L 200**	88010500
4.2L 200	88020200
4.2L 230**	88030400
4.2L 250	88040600
4.2L 300	88050800
4.2L 270	88060001
4.2L 320**	88070001
**Denotes Parent	

Table 2

Engine Model	Starting Serial Number
1.7L WO / PS	88130150
1.7L W / PS	88142000
1.7L IB	88121100

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Certificate Requirements

Exhaust emissions certification comes in the form of a declaration of conformity that would be included with every certified recreational engine package shipped from CMD by January 1, 2006, regardless of the engine family or engine destination.

Engines that were shipped without the proper DOCs will need the exhaust emissions DOC (for sterndrive and inboard engines) and the noise emissions DOC decal (for sterndrive engines only). The noise emission DOC for inboard engines is the responsibility of the vessel manufacturer and the appropriate decal will be placed on the vessel by the vessel manufacturer.

Obtaining Certificates For Qualified Engines

CMD will be including the appropriate decals and documents with every engine being shipped by January 1, 2006. Obtaining an exhaust or noise, or both, emissions DOC for an engine you may already have in your inventory or your OEM's inventory is possible by contacting wavemaster@cummins.com with the following information:

- The subject line should read: 'RCD DOC Request'. This will help CMD respond to your request sooner.
- The email body should include the engine serial number for which you are requesting the certificate.
- The engine model and horsepower rating. For example: 4.2L 300.
- The name of the individual to whom the certificate should be sent.
- A phone number to reach that individual.
- The email address or street address to which the DOC should be sent. Note that the exhaust emissions DOC will be sent via email but the noise emissions decal will be mailed.

NOTE: *You will not be able to obtain a noise emission DOC for any of the Quantum or Diamond series engines since CMD does not sell these engines with an integral exhaust system.*

Once the appropriate DOCs and decals are obtained for each engine, the DOCs need to be included with the rest of the engine documents. The decal should be placed near the data tag, or serial number plate, in an area that is readily visible.

Impact On Service

The only impact on service is in the event of a catastrophic engine failure.

Regarding the Quantum and Diamond series engines, with the exception of the 4B 155, the repair location can either:

1. Repair the failed engine or
2. Replace the failed engine with an RCD compliant engine. There is no issue in intermixing certified and non-certified engines since there is no difference between them.

Regarding CMD 2.8L and 4.2L engines, the repair location can either:

1. Repair the failed engine using a partial engine or
2. Replace the failed engine with an RCD compliant engine. The compliant engines had some components redesigned to meet the new requirements. This may lead to minor differences in the appearance and performance of the engines.

Regarding CMD 1.7 L catastrophic engine failures, the repair location will have to:

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1. Replace the failed engine with a RCD compliant engine. The compliant engines had some components redesigned to meet the new requirements. This may lead to minor differences in the appearance and performance of the engines.

CMD recommends avoiding the intermixing of certified and non-certified CMD 1.7L, 2.8L, and 4.2L engines when possible. Refer to Tables 1 and 2 for the serial number range identifying the certified products and the non-certified products.

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