Service Bulletin

Bulletin No. 2007-65
CMD 2007-05

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

Required QSD 2.8 and 4.2 Fluid Cooler Cover Plug Replacement and Anode Inspection

Models Affected

Models Covered	Serial Number or Year
QSD 2.8 210 HP	88305400 to 88305485
QSD 2.8 230 HP	88310400 to 88310591
QSD 4.2 270 HP	88401000 to 88401054
QSD 4.2 320 HP	88405000 to 88406314

Situation

For engines within the serial number range, the plug in the fluid cooler cover may be made of a material not suitable in a marine environment. Additionally, some engines may not have a sacrificial anode installed which leads to accelerated corrosion of the plug and possible system corrosion.

Correction

Replace the existing plug in the fluid cooler cover with the new plug. The part number is listed below.

If the fluid cooler does not have an anode assembly installed: install one using the part listed below.

If the the fluid cooler has an anode assembly: inspect the anode according to step 9 in **Replacement Procedure**.

Parts

Qty.	Description	Part Number
1	Plug	879150028

Additional parts if required

Qty.	Description	Part Number
1	Anode Assembly	879194217

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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.

⚠ CAUTION

Water can enter the bilge when the drain system is open, damaging the engine or causing the boat to sink. Remove the boat from the water or close the seacock, disconnect and plug the seawater inlet hose, and ensure the bilge pump is operational before draining. Do not operate the engine with the drain system open.

1. Disconnect the battery cables.
2. Close the seacock, if equipped, or disconnect and plug the seawater inlet hose.
3. Drain the seawater from the fluid cooler/heat exchanger assembly. Refer to the appropriate CMD operation, maintenance, and warranty manual.
4. Locate the plug. The plug is the smaller of the two plugs in the aft end of the fluid cooler cover which is part of the heat exchanger assembly.



a - Anode plug
b - Plug
c - Fluid cooler

5. Remove the existing plug from the cooler cover and clean the threads if necessary.
6. Apply adhesive to the threads of the new plug.

Tube Ref No.	Description	Where Used	Part No.
	Loctite 572	Plug	Obtain Locally

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7. Install the new plug and torque to specification.

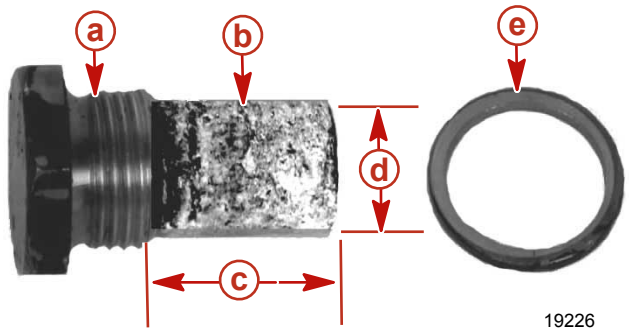
Description	Nm	lb. in.	lb. ft.
Plug	17	150	–

8. Remove the anode plug assembly. The anode is the larger of the two plugs in the end cover of the fluid cooler. Verify that there is an anode installed on the plug.
9. Inspect and measure the anode. Compare the measurements to the specifications for a new sacrificial anode assembly.

IMPORTANT: Replace sacrificial anodes if eroded 50% or more. Cummins MerCruiser Diesel strongly recommends avoiding the use of anodes from another manufacturer. Refer to your Cummins MerCruiser Diesel Authorized Repair Facility for additional information.

NOTE: *Sacrificial anodes are available only as an assembly. Replace both the plug and anode as a unit.*

10. Install the new anode plug assembly into the aft end of the cooler cover if the anode is missing or is consumed more than 50%.



a - Anode plug
b - Sacrificial anode
c - Length
d - Diameter
e - Sealing washer

Sacrificial anode	Measurements (new)
Length	19 cm (3/4 in.)
Diameter	16 cm (5/8 in.)

11. Torque the anode plug to specification.

Description	Nm	lb. in.	lb. ft.
Anode plug	53	–	39

12. Open the seacock, if equipped, or unplug and connect the seawater inlet hose.
13. Check for leaks.

⚠ 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.

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14. Connect the battery cables.

Owner Notification

Cummins MerCruiser Diesel will send a letter to all registered owners within the affected serial number range. This letter will explain the situation and request that they contact their local distributor/dealer to arrange a time to have this work done.

Warranty

Cummins MerCruiser Diesel will credit the dealer for the cost of parts, labor, and reasonable travel through 01 October 2009. Submit a warranty claim through your normal warranty processing channel, listing:

- MerCruiser serial number.
- Part Code – 507
- Failure Code – 40
- Flat Rate Code and Labor Rate:

Labor Code	Flate Rate
SB05	0.5

Old Part or Parts:

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

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Cummins MerCruiser Diesel

4500 Leeds Avenue, Suite 301
Charleston, SC 29405-8521

Dear Cummins MerCruiser Diesel Customer:

Thank you for your purchase of a Cummins MerCruiser Diesel powered boat. We appreciate your business and hope that your engine is performing up to your expectations. We are contacting you, as part of our commitment to providing superior reliability and customer satisfaction, because your engine has a problem that needs correction.

What is the problem?

On your model of Cummins MerCruiser Diesel engines, the plug in the fluid cooler cover may be made of a material not suitable in a marine environment. Additionally, some engines may not have a sacrificial anode installed which leads to accelerated corrosion of the plug and possible system corrosion, which could lead to the sinking of the boat.

What should you do?

Contact a Cummins MerCruiser Diesel authorized dealer and make arrangements to have your engine repaired. The dealer will refer to Cummins MerCruiser Diesel Service Bulletin 2007-65 for instructions.

Please present this notice to your dealer at the time of your service appointment, and please, do not operate your engine until repairs are complete. The plug could fail and result in a seawater leak.

If you have questions, please contact a Cummins MerCruiser Diesel authorized repair facility. To find the distributor for your area, use the service locator on our website (www.cmdmarine.com) or contact Sales or Service at 1-800-DIESELS.

What will we do?

Any Cummins MerCruiser Diesel authorized repair facility will perform the repair at no charge to you.

What if you have other questions or if you no longer own this boat?

Please contact a Cummins MerCruiser Diesel distributor/dealer.

We have sent this notice in the interest of your continued satisfaction with our product, and we sincerely regret the inconvenience this may cause you.

Thank you for boating with Cummins MerCruiser Diesel.

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