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Gen III Cool Fuel Module

NOTICE
Revised July 2015. This bulletin supersedes the previous bulletin number 2004-06R1 February 2005.

NOTICE
Always refer to the appropriate Mercury Marine service manual for component removal and installation instructions.

Models Affected

Application	Model	Serial Number
MCM	496 Mag	0W060000 and above
All Bravo	5.0L MPI	0W060000 and above
All Bravo	350 Mag MPI	0W060000 and above
All Bravo	6.2L MPI	0W060000 and above
MIE	8.1L (all)	0W090000 and above
MIE	350 Mag MPI	0M398372 and above
MIE	6.2L MPI	0M398395 and above
MCM and MIE	8.2 MPI	All

Scope

Worldwide

Situation

The following information is provided for maintenance of the Gen III Cool Fuel module. Refer to the appropriate service manual when troubleshooting the Gen III Cool Fuel module.

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Changing Water-Separating Fuel Filter Element

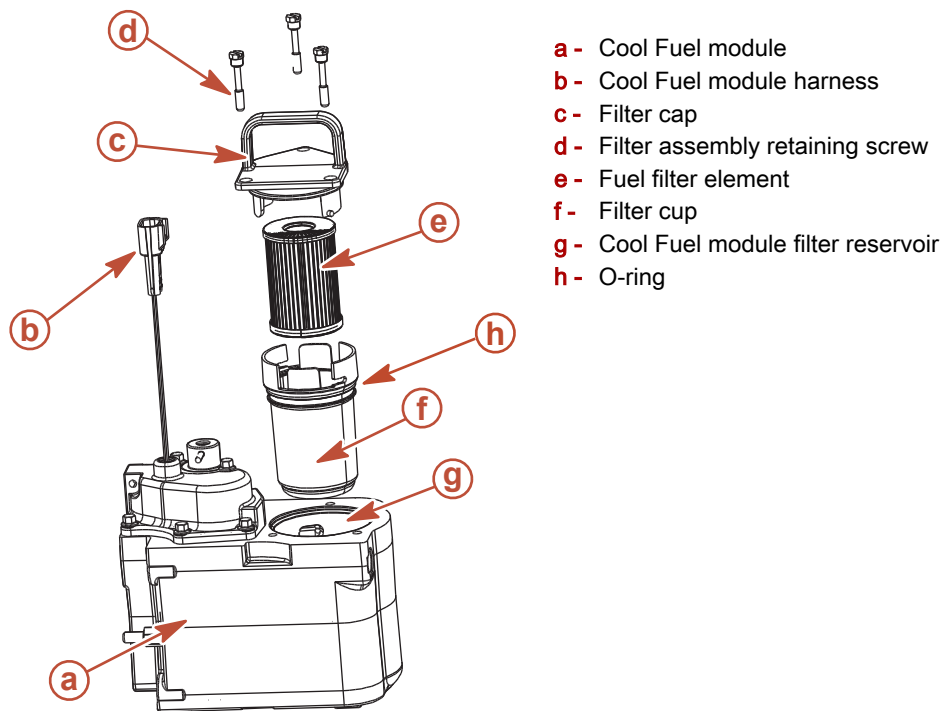
⚠ CAUTION

Failure to release pressure from the fuel system will result in fuel spraying out, which can cause a fire or explosion. Allow the engine to cool completely and release all fuel pressure before servicing any part of the fuel system. Always protect eyes and skin from pressurized fuel and vapors.

⚠ WARNING

Fuel is flammable and explosive. Ensure that the key switch is off and the lanyard is positioned so that the engine cannot start. Do not smoke or allow sources of spark or open flame in the area while servicing. Keep the work area well ventilated and avoid prolonged exposure to vapors. Always check for leaks before attempting to start the engine, and wipe up any spilled fuel immediately.

1. Allow the engine to cool down.
NOTE: Mercury MerCruiser recommends that the engine be shut off for 12 hours prior to removing the filter.
2. Disconnect the Cool Fuel module harness from the engine wiring harness.
3. Turn the key switch to the start position and allow the starter to operate for five seconds to relieve fuel system pressure.
4. Turn the key switch to the off position.
5. Disconnect all battery cables on the batteries.
6. Loosen each filter assembly retaining screw until the screw is disengaged from the Cool Fuel module. Do not remove the filter assembly retaining screws from the filter cap.



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7. Unseat the filter assembly by grasping the filter assembly handle and pulling up. Do not remove the filter assembly from the Cool Fuel module at this time.
8. Allow any fuel that may be in the filter assembly to drain into the Cool Fuel module filter reservoir.
9. Remove the filter cup from the filter cap by grasping the filter cap and rotating it clockwise while holding the filter cup stationary.
10. Remove the fuel filter element from the filter cup. Place it in an approved container.
11. Dispose of any water or debris that may be in the filter cup.

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12. Install a new filter element into the filter cup. Push the element into the cup until completely seated.
13. Install a new O-ring on the filter cup. The O-ring is included with the replacement filter kit.
14. Attach the filter cap to the filter cup by grasping the filter cap and rotating it counterclockwise while holding the filter cup stationary. Continue rotating it until the filter cap locks securely into place.
15. Install the fuel filter assembly slowly into the Cool Fuel module to prevent the fuel from spilling. Align the screws in the filter cap with the holes in the Cool Fuel module. Tighten the filter assembly retaining screws until hand-tight.
16. Ensure that the filter cap is firmly seated against the Cool Fuel module. Tighten each filter assembly retaining screw to the specified torque.

Description	Nm	lb-in.	lb-ft
Filter assembly retaining screw	6	53.1	–

17. Connect the Cool Fuel module harness to the engine wiring harness.
18. Supply cooling water to the engine.
19. Properly ventilate the engine compartment of accumulated fuel vapors before starting the engine.

⚠ WARNING

Fuel vapors trapped in the engine compartment may be an irritant, cause difficulty breathing, or may ignite resulting in a fire or explosion. Always ventilate the engine compartment before servicing the power package.

20. Start the engine and check for fuel leaks around the fuel filter assembly.
21. If leaks exist, stop the engine immediately and check the filter installation.
22. Wipe up spilled fuel and repair the fuel leak.
23. Ensure the engine compartment is properly ventilated.
24. Start the engine and check for fuel leaks. Repair as necessary.

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