

8M0047215/16

GEN III COOL FUEL SERVICE KITS

IMPORTANT: This document guides our dealers, boatbuilders, and company service personnel in the proper installation or service of our products. If you have not been trained in the recommended servicing or installation procedures for these or similar Mercury Marine products, have the work performed by an authorized Mercury Marine dealer technician. Improper installation or servicing of the Mercury product could result in damage to the product or personal injury to those installing or operating the product. Always refer to the appropriate Mercury Marine manual for component removal and installation instructions.

IMPORTANT: After completing installation, place these instructions with the product for the owner's future use.

Models Covered
All MerCruiser MCM and MIE Engines With Gen III Cool Fuel

Components Contained in Kits

8M0047215—Complete Gen III Cool Fuel Assembly

Qty.	Description	Part Number
1	Gen III Cool Fuel assembly	NSS
2	3/8-18 NPT plastic barbed fitting	8M2010476
1	Adapter, hex, 3/8 in.	88517

8M0047216—Gen III Cool Fuel Lower Housing

Qty.	Description	Part Number
1	Gen III Cool Fuel lower housing	NSS
2	3/8-18 NPT plastic barbed fitting	8M2010476
1	Adapter, hex, 3/8 in.	88517

Gen III Cool Fuel Module Service Kit

General Information

The new Gen III Cool Fuel module has improved hose connections and replaces the original production Gen III Cool Fuel module. New Gen III Cool Fuel modules and Gen III Cool Fuel lower housing kits will service engines with the original and new versions of the Gen III Cool Fuel module. Additional parts are required when replacing modules or lower housing kits on engines with original production Gen III Cool Fuel modules.

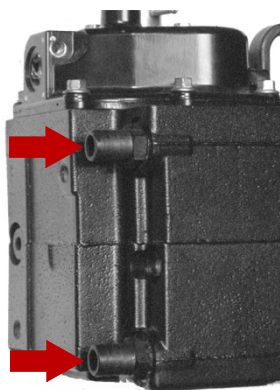
Engines built after the serial numbers listed in the table below have the new Gen III Cool Fuel module and do not require additional parts when replacing the fuel module or fuel module lower housing.

Engines built before the serial numbers listed in the table below will require a new orifice meter assembly when replacing the fuel module or fuel module lower housing. Refer to **Additional Parts Required** when ordering fuel module kits or fuel module lower housing kits for engines built before the serial numbers listed in the table below.

Engine Family	Serial Number
MCM 5.0L MPI, 350 MAG and 377 MAG—Bravo only	1A343749
MCM 496 MAG and 496 MAG H.O.	1A349420
MIE 5.7L MPI and 6.2L MPI	1A091623
MIE 8.1L and 8.1L H.O.	1A380210


1. Refer to the instructions in the appropriate MerCruiser engine service manual for Gen III Cool Fuel module removal and installation.
2. Refer to the instructions in the appropriate MerCruiser engine service manual if changing the lower housing of the Gen III Cool Fuel module.
3. Apply Perfect Seal to the threads of the plastic barbed fitting.

4. Install the inlet and outlet plastic barbed fitting into the Gen III Cool Fuel module housing. Tighten to the specified torque.



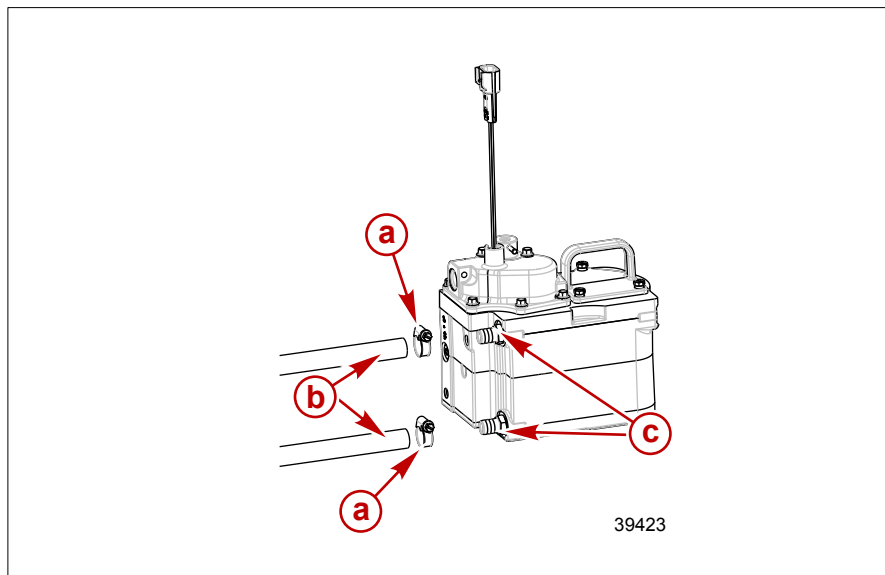
40058

Plastic barbed fitting

Tube Ref No.	Description	Where Used	Part No.
 19	Perfect Seal	Plastic barbed fitting threads	92-34227Q02

Description	Nm	lb-in.	lb-ft
Plastic barbed fitting	19	168	–

5. If replacing the orifice meter assembly, cut and discard the hose clamps.
 6. Install the supplied hose clamps on the large cooling hoses and attach to the new orifice meter assembly, if replacing.
 7. Install the supplied hose clamps on the water hoses of the orifice meter assembly and connect the hoses to the inlet and outlet barbed fittings on the Gen III Cool Fuel module.



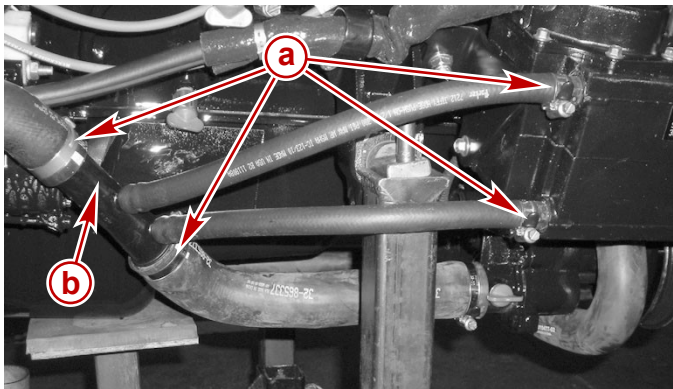
- a** - Hose clamp
b - Water hose
c - Barbed fittings

8. Tighten the hose clamps to the specified torque.

Description	Nm	lb-in.	lb-ft
Hose clamp	4.5	39.8	–

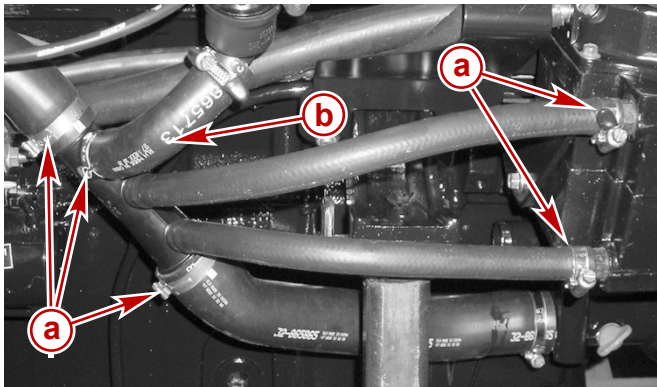
Orifice Meter Assembly Identification

NOTE: The smaller diameter water hoses pressed onto the orifice meter assembly do not require hose clamps.



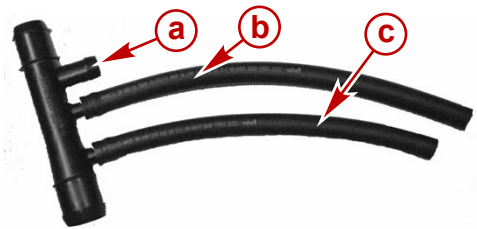
40125

- 2 bib orifice meter**
a - Hose clamps
b - Orifice meter assembly



40126

- 3 bib orifice meter**
a - Hose clamps
b - Third bib



40057

- 3 bib orifice meter and hose assembly shown (2 bib similar)**
a - Third bib—absent on 2 bib orifice meter and hose assembly
b - Hose from the Cool Fuel module
c - Hose to the Cool Fuel module

Additional Parts Required

Engines with Closed Cooling

Engine Family	Serial Number Or Year	Order 2 Bib Orifice Meter Part Number
Sterndrive 5.0L, 350, and 377 MPI models equipped with Gen III Cool Fuel	1A343749 and below	865317T02
Inboard 5.7L and 6.2L MPI models equipped with Gen III Cool Fuel	1A091623 and below	
Scorpion 350 and 377 models equipped with Gen III Cool Fuel	1A091623 and below	

Engines with Seawater Cooling


Engine Family	Serial Number Or Year	Order 3 Bib Orifice Meter Part Number
Sterndrive 5.0L, 350, and 377 MPI models equipped with Gen III Cool Fuel	1A343749 and below	865208T02
Inboard 5.7L and 6.2L MPI models equipped with Gen III Cool Fuel	1A091623 and below	
Scorpion 350 and 377 models equipped with Gen III Cool Fuel	1A091623 and below	

MCM 496 and MIE 8.1 Models

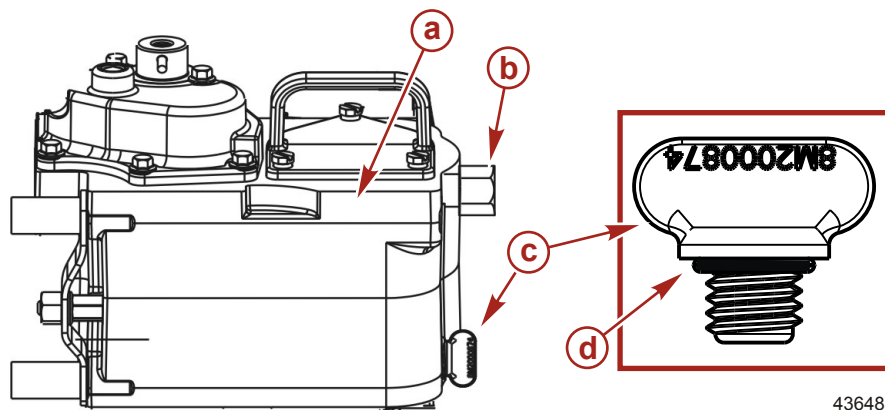
Engine Family	Serial Number Or Year	Order 3 Bib Orifice Meter Part Number
All Sterndrive 496 models equipped with Gen III Cool Fuel	1A349420 and below	865208T02
All inboard 8.1L models equipped with Gen III Cool Fuel	1A380210 and below	
All Tow Sports 8.1L models equipped with Gen III Cool Fuel	1A380210 and below	

Draining Water from the Gen III Cool Fuel Module

1. Remove the drain plug from the Gen III Cool Fuel module and allow the water to completely drain from the module.
2. Inspect the drain plug and the O-ring for damage. Replace if needed.
3. Apply Perfect Seal to the threads of the drain plug.

Tube Ref No.	Description	Where Used	Part No.
 19	Perfect Seal	Threads of drain plug	92-34227Q02

4. Tighten the drain plug until the O-ring makes contact with the module housing; then rotate the drain plug another 180°.



- a - Gen III Cool Fuel module
- b - Fuel in-line fitting
- c - Drain plug
- d - O-ring

43648

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