

Circulate to: Sales Manager Accounting Service Manager Technician Parts Manager

600–700 SCi Improved Fuel Pressure Regulator Housing

Models Affected

Models Covered	Serial Number
600–700 SCi	All

Scope

Worldwide

Situation

Certain environmental conditions can cause a hard start (extended crank) situation due to excessive engine compartment temperatures. Operating the engine when the outside air temperature is greater than 37.8 °C (100 °F) can cause vapor locking due to elevated engine compartment temperatures, resulting in having to crank the engine multiple times to restart.

To reduce the effects of vapor locking and hard starting caused by these environmental conditions, an improved fuel pressure regulator housing is now available. Preauthorized claims will require the original regulator to be returned to Mercury Racing with the tamperproof cover in place.



64622

Tamperproof cover

The remanufactured fuel pressure regulator housing part number is listed in the following table.

Qty.	Description	Part Number
1	Remanufactured fuel pressure regulator housing	8M0135946

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Correction

Fuel Pressure Regulator Removal

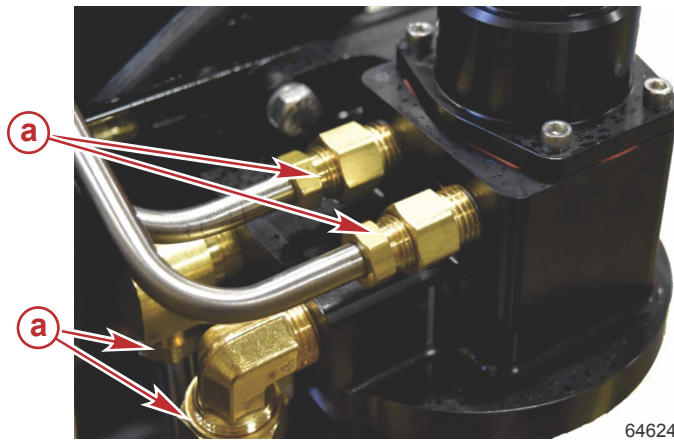
⚠ WARNING

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.

⚠ CAUTION

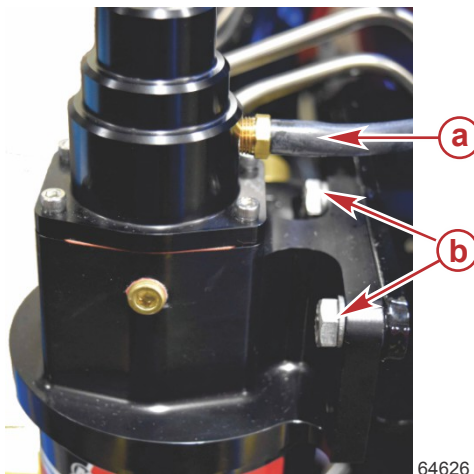
Failure to release pressure from the fuel system will result in fuel spraying out, which can cause a fire or explosion. Allow the engine to cool completely and release all fuel pressure before servicing any part of the fuel system. Always protect eyes and skin from pressurized fuel and vapors.

1. Relieve the fuel system pressure.
2. Remove the fuel filter from the regulator assembly.
3. Disconnect the four fuel line connections from the fuel pressure regulator fittings.



a - Fuel line connections

4. Confirm that the fuel lines are removed from the fuel pressure regulator fittings and the brass fittings remain with the housing.
5. Disconnect the reference hose from the fuel pressure regulator.
6. Remove the two screws and washers securing the fuel pressure regulator to the engine.



a - Reference hose
b - Screws and washers (2 each)


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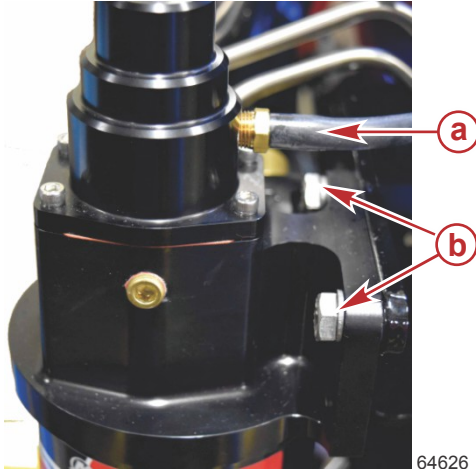
- Remove the fuel pressure regulator.

Fuel Pressure Regulator Installation

- Apply Loctite® 271 Threadlocker to the threads of the fuel pressure regulator mounting screws.


Tube Ref No.	Description	Where Used	Part No.
 7	Loctite 271 Threadlocker	Threads of the fuel pressure regulator mounting screws	92-809819

- Install the fuel pressure regulator onto the engine with two screws and washers. Tighten the screws securely.
- Connect the reference hose to the fuel pressure regulator.

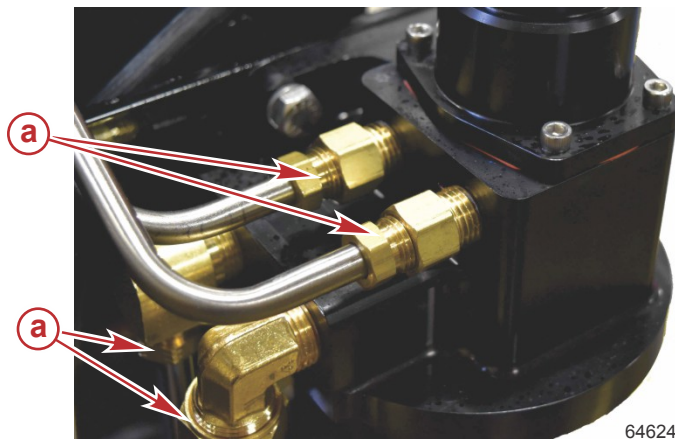


- a - Reference hose
- b - Screws and washers (2 each)

- Apply Loctite® 567 PST Pipe Sealant to the threads of the fuel line fittings and fuel pressure regulator fittings.

Tube Ref No.	Description	Where Used	Part No.
 9	Loctite 567 PST Pipe Sealant	Threads of the fuel line fittings and fuel pressure regulator fittings	92-809822

- Install the fuel line connections finger-tight, then tighten the fuel line connections securely. Do not overtighten.
IMPORTANT: Hold the fuel pressure regulator fittings with a wrench while tightening the fuel line fittings.



- a - Fuel line connections

- Lubricate the seal ring of a new water-separating fuel filter with clean engine oil. Install the new water-separating fuel filter onto the housing.

NOTE: If the fuel pressure regulator was replaced to reduce the effects of vapor locking, Mercury Racing recommends replacing the EFI fuel filter cartridge and checking the fuel supply lines for any source of restrictions.

- Cycle the ignition key to pressurize the fuel system. Inspect all fittings and hoses for leaks. Correct any leaks.

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