



Service Bulletin SB0044

Date: November 2002
From: Capstone Technical Support
Subject: Replacing Fuel Filter Strainer Cap O-Ring
 Capstone MicroTurbines

Affected

All Capstone Turbine Corporation® Model C30 and C60 MicroTurbine systems with Top Level Assembly Part Numbers listed in the following table.

NOTE	This Service Bulletin does not apply to MicroTurbines used for sour gas application.
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Safety Precautions

Only Capstone Authorized Serviced Providers (ASP's) should open the MicroTurbine and other equipment connected to the MicroTurbine. The systems can include multiple sources of power. The fuel used by the MicroTurbine is flammable and explosive. Keep flames, cigarettes, sparks, and electrical arc-producing equipment away from the MicroTurbine. Observe and adhere to the Safety Instructions contained within the MicroTurbine documentation.

Summary

On the Model C30 and C60 MicroTurbine systems listed in the following table, the O-ring in the Fuel Filter Strainer Cap Assembly may deteriorate over time and may cause fuel leaks. To eliminate fuel leaks, the O-ring should be replaced with a newer O-ring 514806.

Top Level Assy (C30)	System Description	Top Level Assy (C60)	System Description
511992-100	C30 Fuel, TLA, HPNG OEM	511883-201	C60, TLA, SA, HPNG, HBTU, LIP, CE
511992-200	C30, Fuel, TLA, HPNG, OEM, Down Exh	512138-100	C60, FOP, Stationary, NG
512448-100	C30 Fuel, TLA, LPNG, OEM	512590-101	C60, TLA, GC, HP, LIP
512448-200	C30 Fuel, OEM TLA, LPFB, Exh Dwn	512842-100	C60 Fuel, OEM TLA, NG (FOP)
513712-100	C30, TLA, LPNG, FB, SIP, GC	512866-100	C60, TLA, HEV
513713-100	C30, TLA, LPNG, FB, Open SIP, GC	512983-100	C60, TLA, HPNG, SA, OEM
513720-100	C30, FOP, HPNG, OEM	512984-100	C60, TLA, HPNG, GC, OEM
513720-200	C30, FOP, HPNG, OEM, Down Exh.	513207-100	C60, TLA, SA, HPNG, LIP, UL
513919-100	C30, FOP, LP-FB, SIP		
513992-100	C30, TLA, LPNG, FB, SIP, SA		
513993-100	C30, TLA, LPNG, FB, Open SIP, GC		

Action Required

Perform the following steps during the next scheduled site visit or at least by the 8000-hour service interval:

1. Locate the MicroTurbine nameplate on the back of the system (see the following figure). Check the Top Level Assembly Part Number on the nameplate against the list in the previous table. If it matches the numbers in the table, proceed with the following steps.



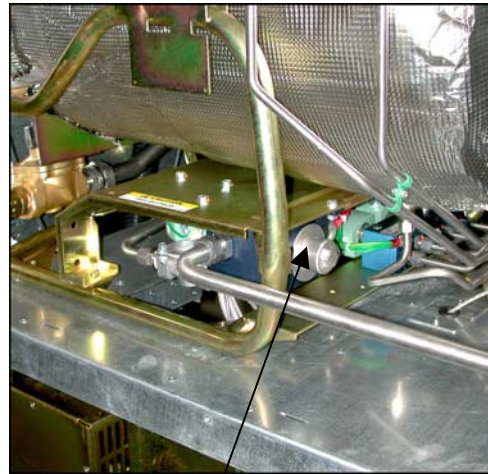
2. Command the MicroTurbine OFF.
3. Shut OFF fuel and relieve gas pressure into a safe environment.
4. Looking at the front of the MicroTurbine, remove the upper right side panel to access the fuel filter assembly under the engine (see the following figures).

CAUTION

Severe burns can occur since the thermal blanket and the parts around it are at very high temperatures.

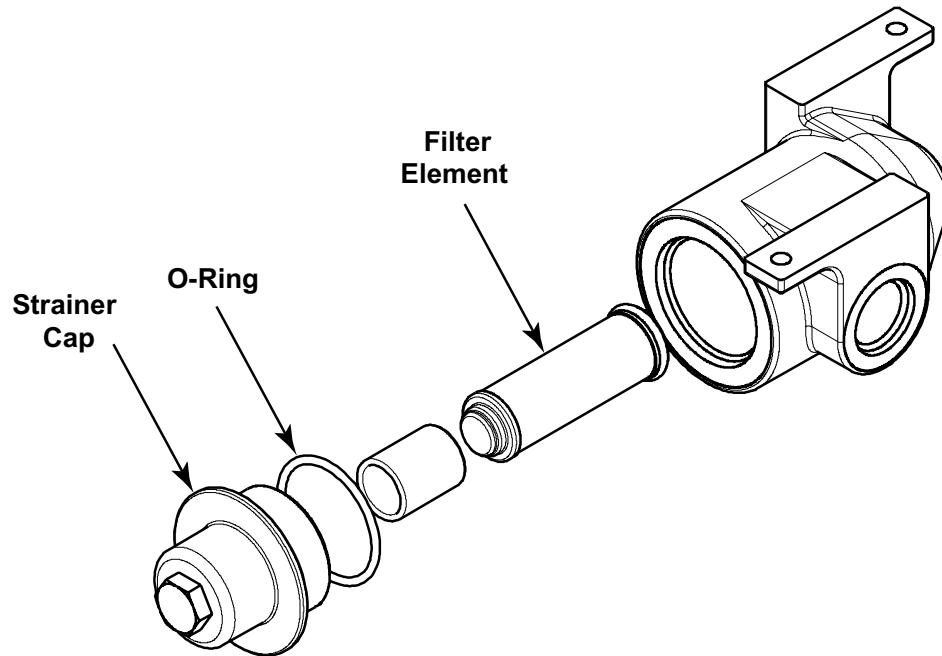


Fuel Filter Strainer Cap (Model C30)



Fuel Filter Strainer Cap (Model C60)

- Loosen the hex nut (part of the Strainer Cap) and gently remove the Strainer Cap Assembly, as shown in the following figure.



- Remove and discard the existing O-ring inside the Strainer Cap.
- Ensure the O-ring sealing surfaces are clean and free of debris.

NOTE

At this time, it is also recommended to check the Filter Element for blockage and clean it if necessary.

- Install the new O-ring 514806. Install the Strainer Cap Assembly in place. Tighten the Strainer Cap to a torque of 50 to 55 lb ft (600 to 660 lb in).
- Turn on the fuel.
- Start the MicroTurbine.
- Test the system for fuel leaks.
- Shut down the system and replace the MicroTurbine side panel.
- Submit a Field Service Report to Capstone to acknowledge the work is complete.

Responsibility

It is the responsibility of Capstone to provide the work instructions contained within this document to the Authorized Service Providers.

It is the responsibility of Capstone to provide the O-ring component 514806 free of charge.

It is the responsibility of the Authorized Service Providers to perform the upgrade and provide Capstone with a Field Service Report upon completion of the upgrade.

Capstone Technical Support

If you have additional questions, please contact:

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