

SERVICE BULLETIN

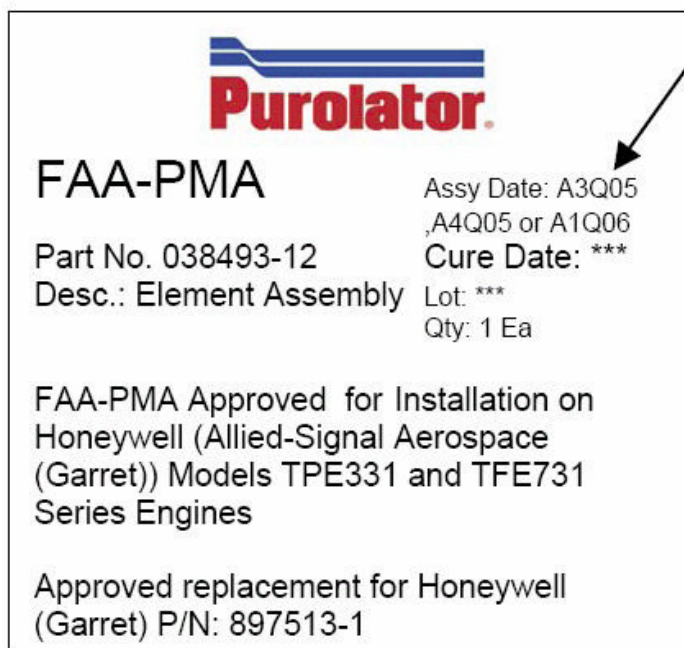
Fuel Filter Element (ATA 73) Inspection and Replacement

1.0 EFFECTIVITY

Honeywell International (AlliedSignal, Garrett) TFE731 and TPE331 engines, which have the following Purolator Facet Fuel Filter Element Part Number 038493-12 installed.

Fuel filter elements with an assembly date code of A3Q05, A4Q05 or A1Q06 on the package (carton) label (see below). Affected P/Ns produced with the affected date codes were made available from July 1, 2005 to June 6, 2006.

Package label with date codes:
A3Q05, A4Q05 or A1Q06



This filter element is an FAA-PMA Approved replacement for Honeywell part number 897513-1 and is approved for installation on the Honeywell TPE331 and TFE731 series engines.

2.0 REASON

Purolator Facet, Inc. has determined filter elements identified as Purolator Facet Inc. P/N: 038493-12 with the assembly date listed in Section 1.0 above, may exhibit a small circumferential crack in the closed endcap.

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3.0 DESCRIPTION

The intent of this Service Bulletin follows:

To provide for instructions to inspect for a circumferential crack in the closed endcap of the fuel filter element and to provide further instructions dependant on findings.

4.0 COMPLIANCE

Section 11.0(a) and 11.0(b) of this Service Bulletin is MANDATORY and shall be accomplished prior to next flight.

5.0 APPROVAL

The technical contents of this Service Bulletin are FAA approved.

6.0. MANPOWER REQUIREMENTS

Work Phase	Man-hours
Inspection And Replacement Of The Fuel Filter Element	0.5
Removal And Cleaning Of The Fuel Control Filter (IF REQUIRED)	5.0

If additional maintenance is required see the Honeywell Inc. TFE731 and TPE331 Maintenance Instructions as applicable for additional manpower requirements.

7.0 MATERIAL

See the applicable Type Certificate Holder's Maintenance Instructions.

8.0 WEIGHT AND BALANCE

Not Affected

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9.0 PUBLICATION REFERENCES:

Sources of information used in the preparation of this Service Bulletin as follows:

(a) Honeywell Inc. TPE331 Engine Models Maintenance Manual as applicable.

Model No.	Honeywell Inc. Maintenance Manual Affected Chapter
TPE331 Series Models	Maintenance Manual ATA Chapter 73

(b) Honeywell Inc. TFE731 Light Maintenance Manuals shown below

Model No.	Honeywell Inc. Light Maintenance Manual Affected Chapter/Section/ Subject 73-21-02
TFE731-2 Series Models	Light Maintenance Manual Report No. 72-02-01 Procedure 36
TFE731-3 Series Models	Light Maintenance Manual Report No. 72-02-01 Procedure 34
TFE731-4 Series Models	Light Maintenance Manual Report No. 72-02-01 Procedure 33
TFE731-5R-1H Models	Light Maintenance Manual Report No. 72-02-01 Procedure 33
TFE731-20/-40/-60	Light Maintenance Manual Report No. 72-03-06 Fuel Control Inspection

10.0 OTHER PUBLICATIONS AFFECTED:

Same as shown in section 9.0.

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11.0 ACCOMPLISHMENT INSTRUCTIONS:

All KNOWN fuel filter element part numbers 038493-12 with package label with dates codes A3Q05, A4Q05 or A1Q06 shall be removed from stock. Affected part numbers produced with affected date codes were made available from July 1, 2005 TO June 6, 2006.

11.1 Purolator Fuel Filter P/N 038493-12 with UNKNOWN date codes.

Prepare the aircraft or engine for safe maintenance.

(a) TFE731 series engine models Inspection

- (i) Remove fuel filter element and clean the fuel filter endcap.
- (ii) In adequate lighting, visually inspect the endcap (using 10 X magnification minimum) for a circumferential crack (See Figure 1). If a crack is present measure the gap using feeler gauge or other suitable instrument. Verify the gap width.

Width of the crack	ACTION REQUIRED
200 microns (.008 inch) or less	<p>All TFE731 Models</p> <p>Replace the Fuel Filter Element In Accordance With the applicable Honeywell Inc Engine Maintenance Instructions (ATA Chapter 73-21-02).</p>
Greater than 200 microns (.008 inch)	<p>See the Engine Type Certificate Holder's Maintenance Instructions (ATA 73-21-01) to access and clean the fuel control filter. Disposition a contaminated filter in accordance with Honeywell Inc Engine Maintenance Instructions as follows:</p> <ul style="list-style-type: none"> • TFE731-2 Series Models Light Maintenance Manual Report No. 72-02-01 Procedure 36 • TFE731-3 Series Models Light Maintenance Manual Report No. 72-02-01 Procedure 34 • TFE731-4 Series Models Light Maintenance Manual Report No. 72-02-01 Procedure 33 • TFE731-5 Series Models Light Maintenance Manual Report No. 72-02-01 Procedure 33
	<p>TFE731-20 /-40 /-60 Models</p> <p>See the Honeywell Inc Engine Maintenance Instructions (ATA 73-21-01) to access and clean the fuel control filter.</p>

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(b) TPE331 series engine models Inspection

- (i) Remove fuel filter element and clean the fuel filter endcap.
- (ii) In adequate lighting, visually inspect the endcap (using 10 X magnification minimum) for a circumferential crack (See Figure 1). If a crack is present replace the Fuel Filter Element in accordance with the applicable maintenance instructions.
- (iii) Perform a fuel flow divider inspection in accordance with the applicable Maintenance Instructions.

(c) All Purolator fuel filter elements found with circumferential cracks as defined in section 11.1 shall be returned to Purolator Facet for further evaluation as follows:

PUROLATOR FACET, INC.
Attention: Bridgett Brown – Quality Assurance
8439 Triad Drive, Greensboro, NC 27409

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Figure 1
Inspection