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Required maintenance for the Airframe Fuel Filter (P/N 130-600004).

APPLICABILITY:

Aircraft with the subject modification embodied in accordance with TCCA STC. No. SH02-42 or any relevant foreign approvals.

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RECORD OF REVISIONS

Rev.	Pages at this Revision	Description, Reason Changed Pages	Prepared (name and date)	Checked (name and date)	App'd/Acc'd (Civil A/W Authority) (name and date)	Released (name and date)
0	1 through 9	Original Issue	D. Kerr 27 May, 2004	C. Timmins 27 May, 2004	TCCA E. Cheung 28 May, 2004	R. Manson 28 May, 2004
1	1 through 12	Changes to pages 1 to 12. Text, placard illustrations and assembly revised (re-designed installation for lower filter position)	D. Kerr 29 July, 2004	C. Timmins 30 July, 2004	N/A	R. Manson 4 Aug., 2004
2	1 through 13	Changes to pages 1 to 13. General, and Troubleshooting revised as per TCCA request.	D. Kerr 8 Sept., 2004	C. Timmins 8 Sept., 2004	TCCA E. Cheung 8 Sept., 2004	R. Manson 8 Sept., 2004
3	1 through 16 A1 to A4	Format revised. Weight and Balance data, torqueing state- ment, and wiring diagram change incorporated. (Pages 4, 5, 7 - 16)	D. Kerr 22 February 2005	C. Timmins 2 March 2005	TCCA E. Cheung 24 March 2005	R. Manson 24 March 2005
4	1 through 22 A1 to A4	Format revised, Section 4 and 8 and Weight and Balance chart expanded. (Pages 3 to 6, 8 to 12, and 14 to 22)	D. Kerr 21 July 2006	C. Timmins 4 August 2006	TCCA Floyd Eaves 9 August 2006	R. Manson 9 August 2006
5	1 through 24 A1 to A4	Replaced "boost" pump reference with "fuel" pump in Sec. 4. Added placard to outboard side of Fuel Filter. Addition of page 24. (Pages 3 to 5, 8, 9, 11 to 16, 18, 20 to 24)	D. Kerr 28 March 2008	C. Timmins 28 March 2008	TCCA F. Eaves 7 April 2008	R. Manson 9 April 2008

NOTE: Revisions to this document will be distributed to operators of this equipment by the STC holder.

NOTE: Revised portions of affected pages are identified by a vertical black line in the margin adjacent to the change.



RECORD OF REVISIONS (continued)

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Rev.	Pages at this Revision	Description, Reason Changed Pages	Prepared (name and date)	Checked (name and date)	App'd/Acc'd (Civil A/W Authority) (name and date)	Released (name and date)
6	1 through 25 A1 to A4	Revised format. Addition of 100 flight hour Press to Test. Increased 500 flight hour inspection to 600 flight hours and 1000 flight hours increased to 1200 flight hours. Wiring Diagram revised to incorporate wire changeover to laser printed. (Pages 4 to 9, 11 to 25)	D. Kerr 20 January 2012	C. Timmins 20 January 2012	N/A	R. Manson 20 April 2012
7	1 through 25 A1 to A4	Increased 100 flight hour to 150 flight hour. (Pages 4, 5, 9, 12, 16)	See page 1.	See page 1.	See page 1.	See page 1.

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GENERAL

A. The Airframe Fuel Filter enables operation of the helicopter at low termperatures without the use of anti-ice additives in the fuel. The filter is designed to collect ice particles. The filter contains a bypass valve and a bypass delta pressure switch. An annunciator light in the cockpit is provided to warn the pilot of an impending bypass of the filter. Refer to Figure 1 for General Layout.

The Airframe Fuel Filter consists of the following main components: Fixed Provisions

- Fuel Filter Support Assembly
- Fuel Filter Base Assembly
- Cover Assembly
- Drain Sump Assembly
- Angle
- Floor Doubler
- Floor Shim
- Drain Bracket
- Gusset

Detachable Provisions

- Fuel Filter
- Hoses

For instructions for initial installation, see IP-ECL-105.

 These Instructions for Continued Airworthiness are applicable to aircraft with the subject modification embodied.

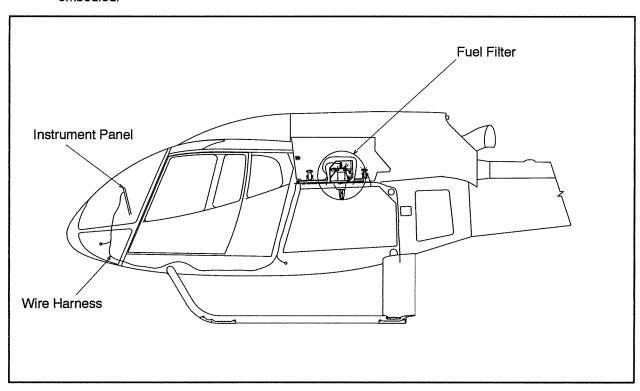


Figure 1 General Layout

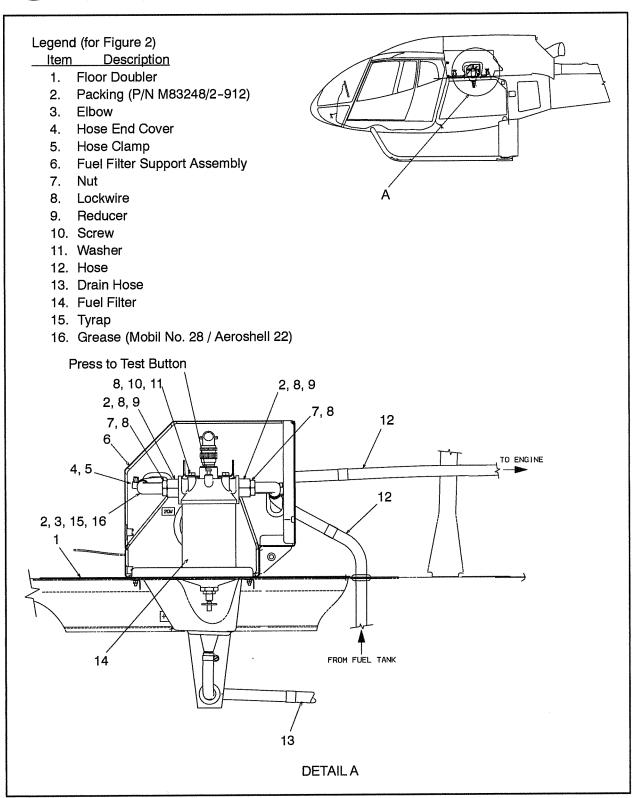


Figure 2 Airframe Fuel Filter Installation

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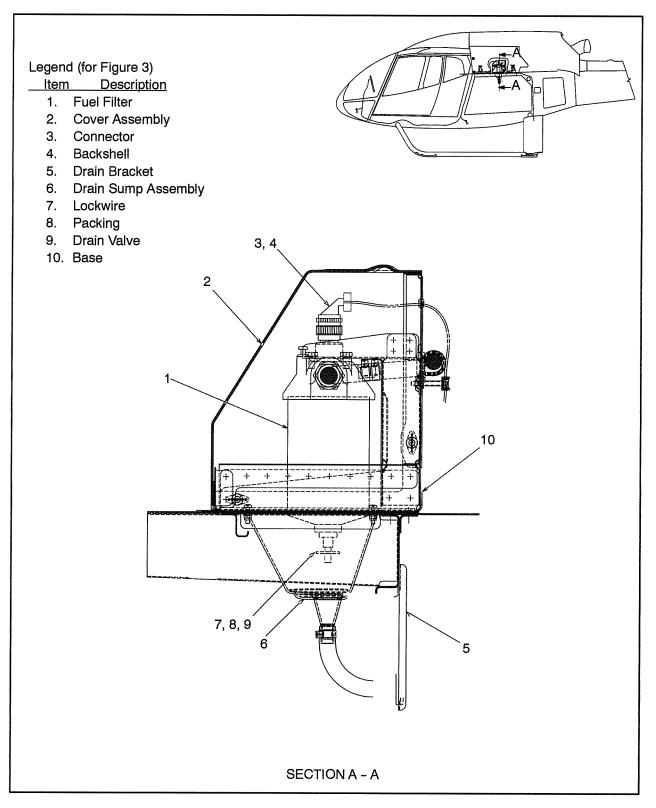


Figure 3 Side view of Airframe Fuel Filter Installation

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C. REFERENCES

DOCUMENT	DOCUMENT TITLE
AC 43.13 - 1B	Advisory Circular, Acceptable Methods, Techniques and Practices - Aircraft Inspection and Repair
MTC	Standard Practices Manual
IP-ECL-105	Installation Procedure, Airframe Fuel Filter
Manual Number 1743640-01	"Operating and Design Specifications", Fuel Filter Assembly, Purolator Products Company

D. ABBREVIATIONS & DEFINITIONS

ABBREVIATION	DEFINITION
A/F	Airframe
D.BAT	Direct Battery
EC	Eurocopter (France)
ECL	Eurocopter Canada Limited
EPU	External Power Unit
EXT PWR BAT	External Power Battery
hrs.	hours
Max.	Maximum
No.	Number
P/N	Part Number
Qty.	Quantity

E. UNITS OF MEASUREMENT

ABBREVIATION/SYMBOL	UNIT OF MEASUREMENT
F	Fahrenheit
GPM	Gallons per Minute
in	inch
kg	kilogram
lb	pound
PSI	Pounds per Square Inch
PSID	Pounds per Square Inch Differential
®	Registered Trademark
0	degree
±	plus or minus



2. **AIRWORTHINESS LIMITATIONS**

The Airworthiness Limitations section is approved by the Minister and specifies maintenance required by any applicable airworthiness or operating rule unless an alternative program has been approved by the Minister.

No airworthiness limitations associated with this installation.

3. CONTROL AND OPERATION

Control and operation of the aircraft remains unchanged.

4. INSPECTION SCHEDULE AND MAINTENANCE ACTION

For additional information on operation and maintenance, refer to the "Purolator" Operating and Design Specifications, Fuel Filter Assembly manual, Part No.: 1743640-01, located in Appendix A.

Use torque per EC, MTC, Volume 2, Chapter 20.02.05.404, unless otherwise specified.

Remove cover to gain access to filter assembly and re-install after inspection/maintenance.

4.1. INSPECTION SCHEDULE

4.1.1. Before the first flight of each day:

ITEM	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
Α	Turn on fuel pump and check Airframe Fuel Filter for:	
	a. water in fuel	Open drain valve, purge any water from the system.
	b. air in fuel line	b. Hold drain valve open until all air is purged.
	c. leaks in the fuel filter and the drain valve	c. No leaks with fuel pump on. Check valve seating, replace packing, item 8, in Figure 3 as necessary (P/N MS29513-012).
В	Turn off fuel pump and check Airframe Fuel Filter for:	
	a. debris in fuel drain, below the filter and/or on the transmission deck	a. Remove and clean as necessary.
	b. secure mounting and connection of filter and hoses	b. Secure as required.
	c. condition of electrical connector and harness	c. Repair in accordance with AC 43.13-1B, Chapter 11, Section 1.

Table 1 Inspection Schedule and Maintenance Action Before the first flight of each day

4.1.2. Pre-Flight Check:

ITEM	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
Α	- Push A/F FUEL FILTER by-pass "Press to Test" caution light:	
	a. apply power to 4 Alpha Warning Panel (Master/Battery switch to ON) and push Press to Test A/F FUEL FILTER annunciator – lamp must illuminate.	a. If lamp fails to illuminate, refer to Chapter 6, Troubleshooting, item 1 in this document.

Table 2 Inspection Schedule and Maintenance Action Pre-Flight Check



4. INSPECTION SCHEDULE AND MAINTENANCE ACTION (continued)

4.1.3. Every 150 flight hrs or 12 months (to coincide with the 150 hrs or 12 month helicopter inspection), whichever occurs first:

ITEM	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
Α	Push the Press to Test Button on the Fuel Filter shown in Figure 2:	
	a. Push the Press to Test Button on the Fuel Filter, the A/F FUEL FILTER annunciator – lamp must illuminate.	a. If lamp fails to illuminate, refer to Chapter 6, Troubleshooting, item 2, in this document.
В	Check doubler, item 1, and fuel filter support assembly, item 6, in Figure 2 for:	
	a. cracks or corrosion	A. No cracks or corrosion are allowed. If cracks or deformation are found, contact ECL for replacement parts.
С	Check hoses, item 12, and drain hose, item 13, in Figure 2 for:	
	a. leaks	a. If leaks are found, contact ECL for replacement parts.
	b. cracking	b. No cracking is allowed. If cracking is found, contact ECL for replacement parts.
D	Check base, item 10, and drain bracket, item 5, in Figure 3 for:	
	a. cracks or corrosion	A. No cracks or corrosion are allowed. If cracks or deformation are found, contact ECL for replacement parts.
E	Check drain sump assembly, item 6, in Figure 3 for:	
	a. cracks or deformation	a. No cracks or deformation are allowed. If cracks or deformation are found, contact ECL for replacement parts.
F	- Check placards and markings in Figures 5, 6, 7, 8, 9 and 10 (Section 10) for:	
	a. legibility	a. If placards and markings have become illegible, contact ECL for replacement parts.
	b. secure mounting	b. Secure, reattach placards as required.

Table 3 Inspection Schedule and Maintenance Action Every 150 flight hrs or 12 months, whichever occurs first



4. INSPECTION SCHEDULE AND MAINTENANCE ACTION (continued)

4.1.4. Every 600 flight hrs or 24 months, (to coincide with the 600 hrs or 24 month helicopter inspection), whichever occurs first:

ITE	М	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
Α		Perform Operational Test - Fuel Filter Switch and Bypass Valve	See Operational Test Instructions given following Table 5

Table 4 Inspection Schedule and Maintenance Action Every 600 flight hrs or 24 months, whichever occurs first

4.1.5. Every 1200 flight hrs or 48 months (to coincide with the 1200 hrs or 48 month helicopter inspection), whichever occurs first:

ITEM	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
Α	Replace Fuel Filter Element	See Replacement Instructions given following Table 5

Table 5 Inspection Schedule and Maintenance Action Every 1200 flight hrs or 48 months, whichever occurs first

NOTE Filter Element can be replaced more frequently if operational elements dictate.

NOTE: Should the A/F FUEL FILTER annunciator light illuminate, the fuel filter element must be replaced.



A partially blocked filter element will cause a differential pressure switch in the head assembly to close and the A/F FUEL FILTER annunciator to illuminate. If the filter element becomes fully blocked a differential pressure activated valve will permit fuel to bypass the filter.



4. INSPECTION SCHEDULE AND MAINTENANCE ACTION (continued)

Operational Test - Fuel Filter Switch and Bypass Valve

- a. Observe FUEL SYSTEM General Safety Instructions. Refer to Aircraft Maintenance Manual, Chapter 28–00–00, 3–1.
- b. Remove cover from enclosure.
- c. Apply power to annunciator panel. Press differential pressure switch Test Button, on the top of the fuel filter, A/F FUEL FILTER annunciator must illuminate.
- d. Replace filter element with clean dummy element.
- e. Disconnect outlet hose of optional fuel filter from inlet of existing fuel shut off valve and place hose in a suitable container to collect fuel.
- f. Turn on fuel pump(s).
- g. The A/F FUEL FILTER annunciator should illuminate, and fuel should freely flow from outlet hose of fuel filter into the container.
- h. When test is successfully completed, remove dummy element and install filter element. Follow instructions given in Chapter 4, Replacement Fuel Filter Element.
- i. Connect outlet hose of optional fuel filter to inlet of existing shut-off valve.
- j. Open fuel filter bowl drain and operate fuel pump until all air is purged.
- Replace cover of enclosure.

Replacement - Fuel Filter Element

- a. Observe FUEL SYSTEM General Safety Instructions. Refer to Aircraft Maintenance Manual, Chapter 28–00–00, 3–1.
- b. Remove cover from enclosure.
- c. Drain fuel from filter bowl into a container.
- d. Refer to Appendix A"Operating Instructions" Purolator Products Company for Fuel Filter Element Change.
- e. Operate fuel pump and open fuel filter bowl drain until all air is purged.

NOTE: The Purolator Filter Assembly (Part No. 1743640–01) Replacement Element Kit is also available, Purolator Products Company Part No. 1743645.02. This kit consists of a Seal, an O-ring and an Element Assembly.



5. REPLACEMENT COMPONENTS AND REPAIR / OVERHAUL INFORMATION

No replacement components and repair/overhaul information required for this installation.

6. TROUBLESHOOTING

There are no unique characteristics which require special troubleshooting techniques; standard techniques are adequate.

For electrical system troubleshooting, refer to Figure 4, Airframe Fuel Filter, Wiring Diagram.

Remove cover to gain access to filter assembly and re-install after maintenance.

ITEM	TROUBLE SYMPTOM	PROBABLE CAUSE	CORRECTIVE ACTION
1	A/F FUEL FILTER lamp does not illuminate during Daily Preflight Inspection.	Bulb burnt out.	Replace bulb, P/N MS25237-327
2	A/F FUEL FILTER lamp does not illuminate during either the 100 flight hours check or the Operational Test (600 flight hours check).	Break or short in annunciator circuit	Perform circuit continuity check and repair/replace wiring as applicable in accordance with AC 43.13-1B, Chapter 11, Section 1.
		Fuel Filter Head Assembly defective	Replace Head Assembly, refer to the Purolator Documentation
3	A/F FUEL FILTER illuminates during operations.	Excessive contamination in fuel supply.	Check quality of fuel supply.
		Filter is blocked prematurely.	Replace filter element.
		Short in annunciator circuit.	Perform circuit continuity check and repair/replace wiring as applicable in accordance with AC 43.13-1B, Chapter 11, Section 1.

Table 6 Troubleshooting Guide

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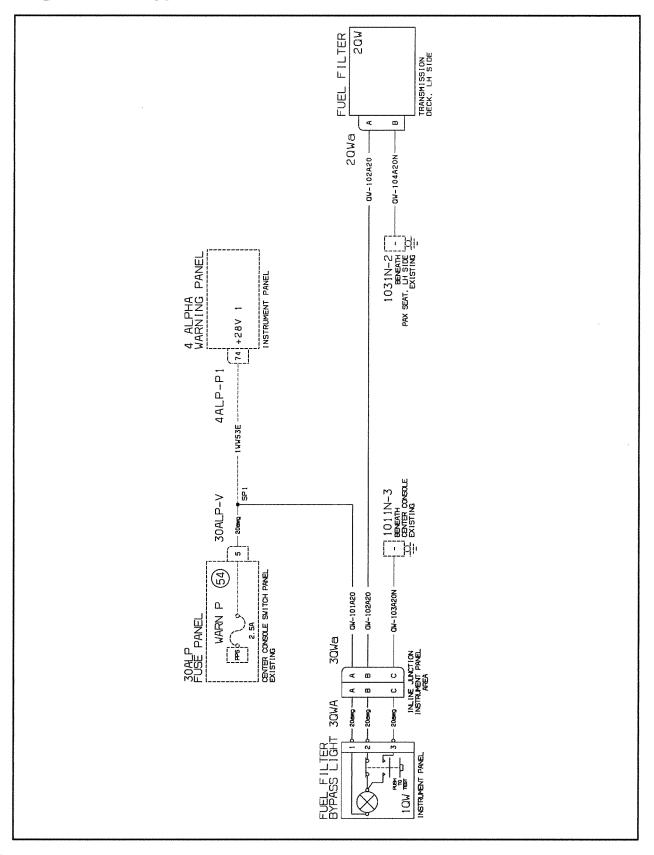


Figure 4 Airframe Fuel Filter, Wiring Diagram

7. SPECIAL TOOLING

No special test equipment or tools are required. Standard tools are adequate.

8. REMOVAL AND REPLACEMENT

Proceed as follows if fuel filter needs to be removed.

Preliminaries

- Read General Safety Instruction Electrical Power Supply System (EC 130 Aircraft Maintenance Manual, Chapter 24-00-00, 3-1)
- set the "D.BAT" pushbutton to "OFF" (refer to Removal/Installation EC 130 Aircraft Maintenance Manual, Chapter 24-33-00, 4-1)
- set the "EXT PWR BAT" of "BAT EPU" (depending on MOD) pushbutton to "OFF" (refer to Electrical Power Supply on the Ground, EC 130 Aircraft Maintenance Manual, Chapter 24–00–00, 2–1)
- disconnect the external power unit and battery (refer to Removal/Installation EC 130 Aircraft Maintenance Manual, Chapter 24-33-00, 4-1)
- Observe Fuel System General Instructions. Refer to Aircraft Maintenance Manual, Chapter 28-00-00,
 3-1
- open the engine and left MGB cowling (Removal / Installation Upper Cowling refer to Aircraft Maintenance Manual Chapter 53-51-00, 4-1)
- Remove cover to gain access to filter assembly.

A. REMOVAL

- 1) Fuel Filter (Refer to Figures 2 and 3)
 - a) Disconnect hose clamps (5, 4 places) from both sides of the fuel filter (14) and slide hose end covers (4) from both elbows (3). Retain hose clamps (5). Refer to Figure 2.
 - b) Remove packing (2, 2 places) from elbows (3, 2 places) and discard packing. Refer to Figure 2.
 - c) Position hoses (12) out of working area. Refer to Figure 2.
 - d) Disconnect connector (3) and backshell (4) from fuel filter (1) and position wire out of working area. Refer to Figure 3.
 - e) Remove lockwire (8), screws (10, 3 places), and washers (11, 3 places) that secure the fuel filter (14) to the top of the fuel filter support assembly (6). Refer to Figure 2.
 - f) Remove fuel filter (16). Retain screws (10) and washers (11) for reinstallation. Refer to Figure 2.



8. REMOVAL AND REPLACEMENT (continued)

B. REPLACEMENT

NOTE Use torque per EC, MTC, Volume 2, Chapter 20.02.05.404, unless otherwise specified.

- 1) Fuel Filter (Refer to Figures 2 and 3)
 - a) Position fuel filter (14) into fuel filter support assembly (6) and secure using previously removed screws (10, 3 places), and washers (11, 3 places). Torque screws to required specifications and secure using lockwire (8). Refer to Figure 2.
 - b) Install elbow (3, 1 place) on LHS of fuel filter (14) with new packing (2, 1 place). Reconnect hose (12) to elbow (3) and secure reusing hose clamps (5, 2 places).
 - c) Install elbow (3, 1 place) on RHS of fuel filter (14) with new packing (2, 1 place). Reconnect hose (12) to elbow (3) and secure reusing hose clamps (5, 2 places).

NOTE Apply grease (14) to the nipple of elbows (3, 2 places) and to the inside diameter of the hoses (12, 2 places) before installation.

- d) Verify that the installation of the Airframe Fuel Filter is correct and secure.
- e) Install the Purolator Dummy Filter Test Element (P/N 1741185), as per this document, and using the Purolator Operating Instruction for the filter assembly contained in this document in Appendix A, check for the correct operation of the fuel filter bypass function.
- f) Install the fuel filter element, and perform a leak check on runup.
- 2) Close all areas opened for service in the PRELIMINARIES paragraph of this section.
- 3) Before energizing the aircraft power supply system, read safety instructions (refer to Electrical Power Supply on the Ground, EC 130 Aircraft Maintenance Manual, Chapter 24–00–00, 2–1).
- 4) Reconnect the external power unit and battery (refer to Removal/Installation, EC 130 Aircraft Maintenance Manual, Chapter 24–33–00, 4–1).
- 5) Perform functional test in accordance with EC 130 Aircraft Maintenance Manual, Chapter 24-30-00, 5-1.

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1272.2

9. WEIGHT AND BALANCE DATA

Airframe Fuel Filter

Total

DESCRIPTION	WEIGHT		ARM		MOMENT	
	kg	lbs	m	in	kg m	lb in
Floor Cut-out	0.09	0.2	3.47	136.8	0.31	27.36
Total	-0.09	-0.2	3.47	136.8	-0.31	-27.36
R Added Items						
B. Added Items DESCRIPTION	WEIG	GHT	A	RM	MOI	MENT

9.3

9.3

3.47

3.47

136.8

136.8

14.60

14.60

4.20

4.20



10. PLACARDS AND MARKINGS

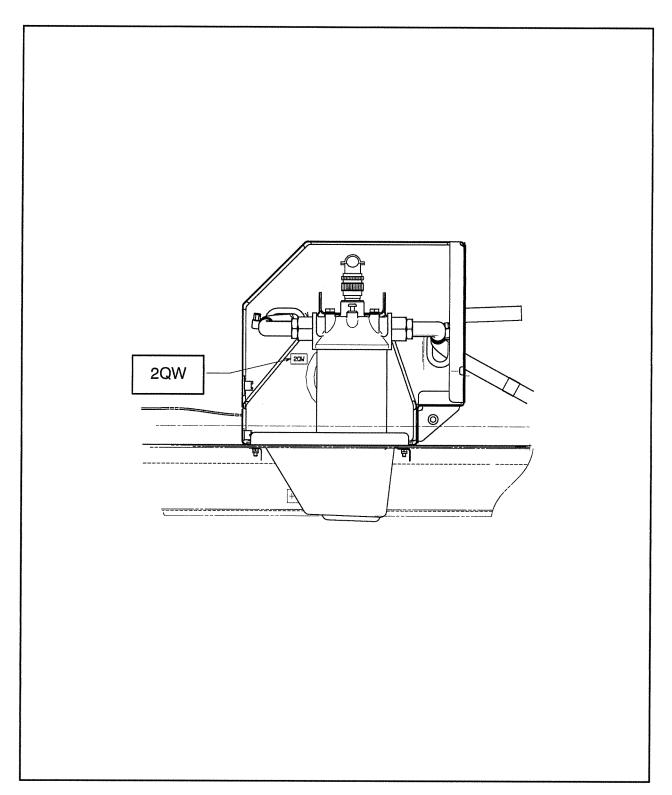


Figure 5 Typical label location on the Fuel Filter Support Assembly

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10. PLACARDS AND MARKINGS

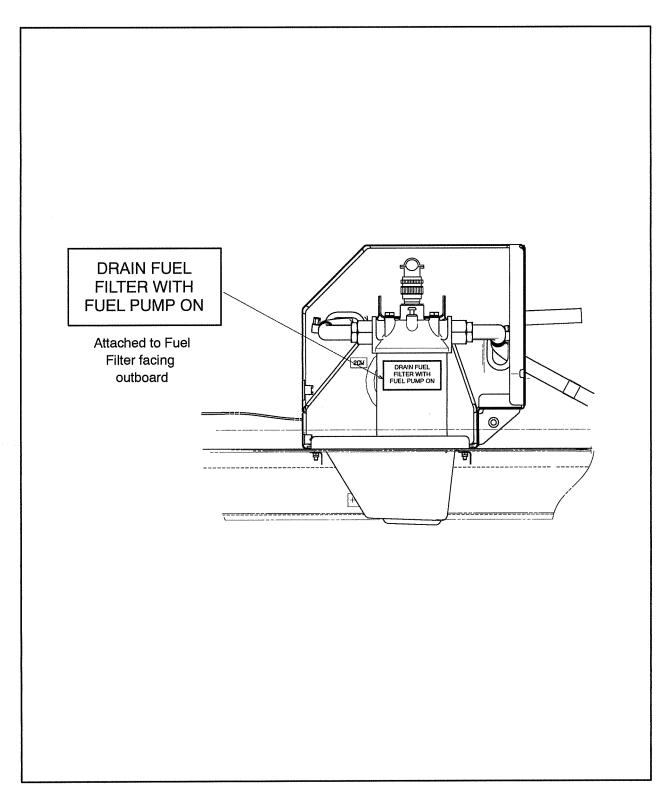


Figure 6 Typical label location on the Fuel Filter

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10. PLACARDS AND MARKINGS (continued)

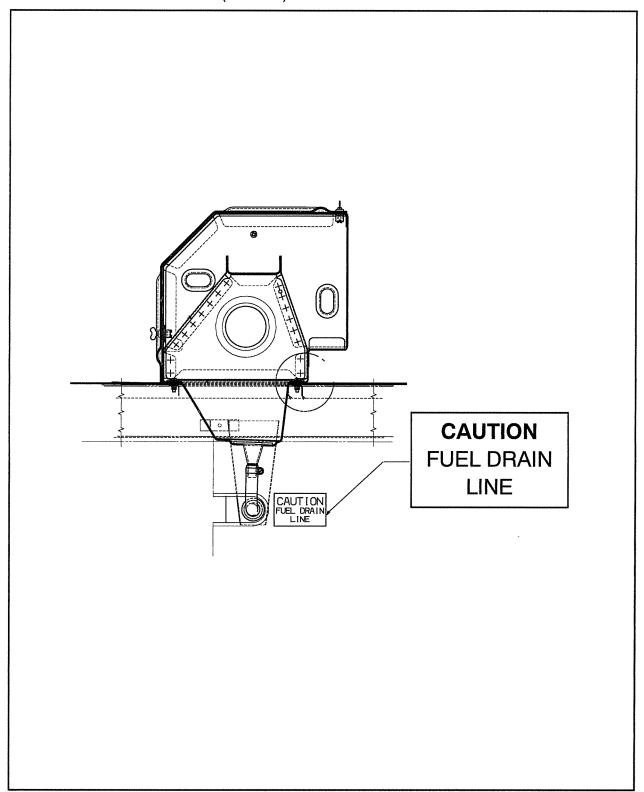


Figure 7 Typical label location in LH Cargo Compartment

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10. PLACARDS AND MARKINGS (continued)

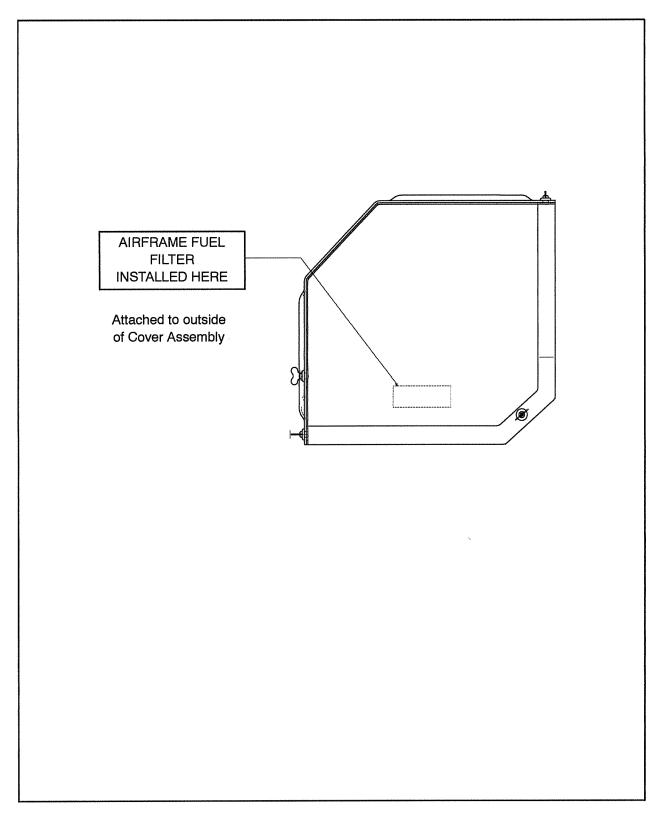


Figure 8 Typical label location on the Cover Assembly



10. PLACARDS AND MARKINGS (continued)

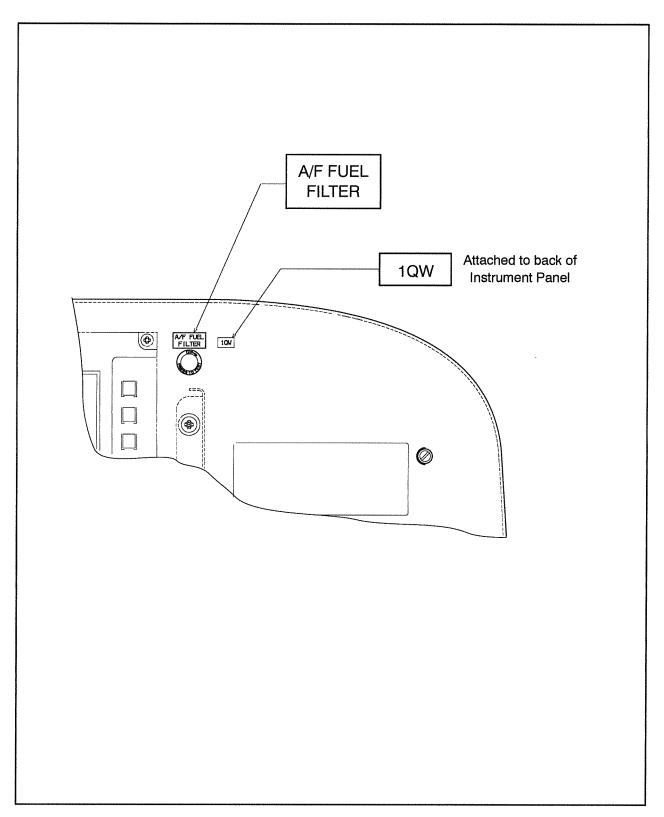


Figure 9 Typical label locations on the Instrument Panel



10. PLACARDS AND MARKINGS (continued)

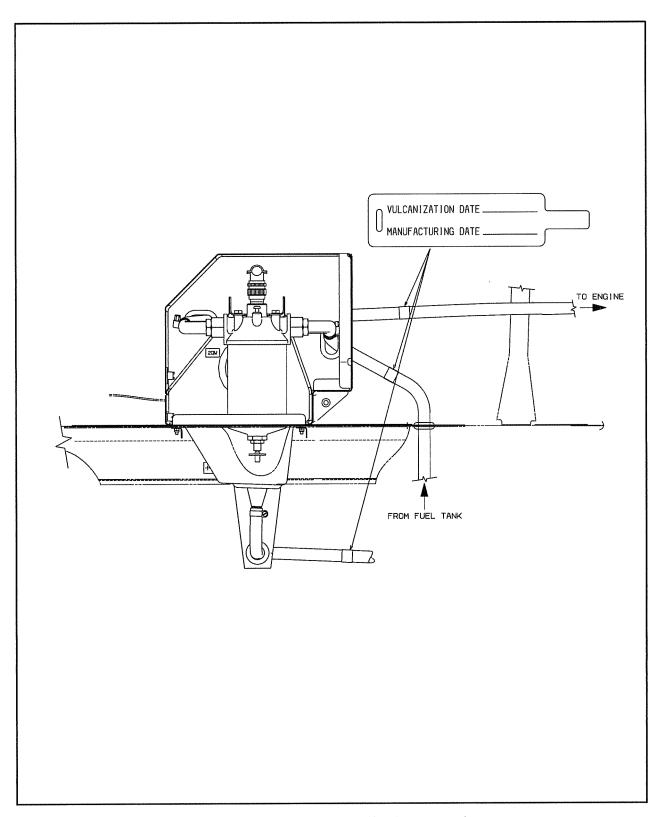


Figure 10 Typical location for identification tags on hoses

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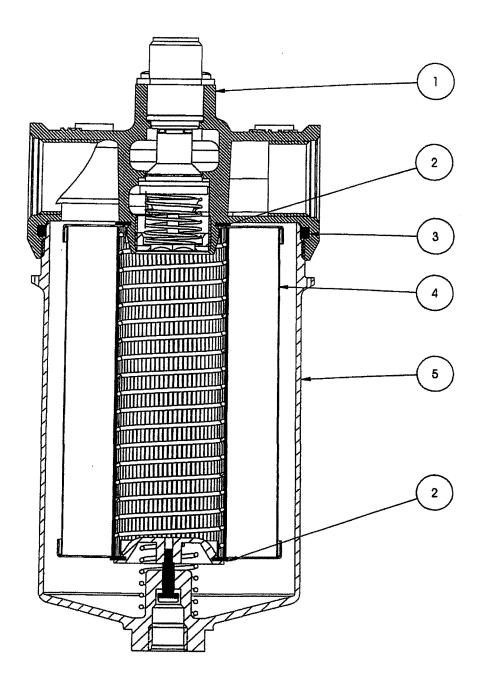


Operating & Design Specifications Fuel Filter Assembly Part No.: 1743640-01

Purolator Facet Inc.

8439 Triad Drive, Greensboro, NC 27409-9621 Phone: (336) 668-4444, Fax (336) 668-4452

Purolator Fuel Filter Assembly Part No. 1743640-01



Replacement Parts for Filter Assembly Part No. 1743640-01

Item No.	Qty. Req.	Part No.	Description:
1.	1	1744990-01	Head Assembly
2.	2	1743629-01	Seal
3.	1	034921-01	O-Ring
4.	1	1743645-01	Element Assembly
5.	1	1745011	Bowl Assembly

NOTE:

Purolator replacement element kit part no. 1743645-02 consists of items 2, 3 & 4

Operating Instructions:

Preflight Inspection Procedure Change:

1. Follow aircraft manufacturers recommended preflight instructions.

Scheduled Maintenance:

- 1. Fuel Filter Element Change:
 - A. Replace element at the intervals specified by the aircraft manufacturer.
 - B. Remove lockwire and unscrew filter bowl.
 - C. Remove used element.
 - D. Remove O-Ring and flat seals from filter head and inside of bottom of filter bowl.
 - E. Install new seals P/N: 1743629-01 on the nipple of the filter head and retainer in the filter bowl.
 - F. Install new filter element p/n: 1743645-01.
 - G. Install new O-Ring P/N: 034921-01 in the filter head.
 - H. Re-install filter bowl and torque to 130±20 inch pounds.
 - 1. Secure filter head to filter bowl with lockwire.

Purolator Fuel Filter Assembly Part Number 1743640-01

Design Specifications:

- 1. Filtration Rating: 10 Micometres Nominal
- 2. Fluid: Mil-T 5624 Gr. JP-4, JP-5, ASTM-D-1655 Type A, A1or B.
- 3. Temperature Range: -65°F to +160°F.
- 4. Bypass valve cracking Pressure: 3.75 PSID.
- 5. Microdelta® Differential Pressure Switch actuates at 0.875 PSID

7. Pressures:

Operating:

60 PSI

Proof:

90 PSI

Burst:

180 PSI

- 8. Rated Flow: 0.5 GPM
- 9. Weight: 1.75 lbs. Max.