#### **EUROCOPTER CANADA LIMITED**

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Required maintenance for the Airframe Fuel Filter (P/N 350-600024).

#### **APPLICABILITY:**

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

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| NAME AND SIGNATURE                  | DATE  | COMPANY DEPARTMENT   |
|-------------------------------------|---|--|
| D. Kerr                             | 28 Mac. /08   | ECL ENGINEERING  |
|                                     |   |  |
| C. Timmins                          | 25th Had 208  | ECL ENGINEERING  |
| M. Merritt L. Lreutet               | 2008.03-28  | ECL QUALITY ASSURANCE  |
| (As per ICA Compliance Check Sheet) | 9 Apr 08  | TCCA   |
| R. Manson Amanes                    | 10 Apr '08  | ECL ENGINEERING  |
|                                     | C. Timmins  C. Timmins  M. Merritt  M. Merritt  (As per ICA Compliance Check Sheet) | C. Timmins  C. Timmins  M. Merritt  M. Merritt  CAS per ICA Compliance Check Sheet)  P. Manson  O  D. Kerr  28 Mau. /08  25 Houd 208  2008.03-25 |

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#### **RECORD OF REVISIONS**

| Rev.  | Pages at<br>this<br>Revision          | Description, Reason<br>Changed Pages  | Prepared<br>(name<br>and date) | Checked<br>(name<br>and date)  | App'd/Acc'd (Civil A/W Authority) (name and date) | Released<br>(name<br>and date) |
|-------|---------------------------------------|---|--------------------------------|--------------------------------|---|--------------------------------|
| 0     | 1 through                             | Original Issue<br>(Replaces MMS)  | D. Kerr<br>29 July 2004        | C. Timmins<br>30 July 2004     | N/A   | R. Manson<br>4 Aug., 2004      |
| 1     | 1 through<br>13                       | Changes to pages 1 to<br>13. General, and<br>Troubleshooting<br>revised as per TCCA<br>request.   | D. Kerr<br>8 September 2004    | C. Timmins<br>8 September 2004 | TCCA<br>E. Cheung<br>8 September 2004             | R. Manson<br>8 September 2004  |
| 2     | 1 through<br>21<br>A1 - A4            | Format revised,<br>Section 4 and 8 and<br>Weight and Balance<br>chart expanded,<br>(Pages 3 to 6, 8 to 10,<br>12 to 21)   | D. Kerr<br>21 July 2006        | C. Timmins<br>4 August 2006    | TCCA<br>Floyd Eaves<br>9 August 2006              | R. Manson<br>9 August 2006     |
| 3     | 1 through<br>24<br>A1 - A4            | Replaced "boost" pump reference with "fuel" pump in Sec. 4. Added placard to outboard side of Fuel Filter. Wiring diagrams updated for latest basic a/c configuration. (Pages 3 to 5, 8, 9, 11 to 18, 20 to 24) | See page 1.                    | See page 1.                    | See page 1.                                       | See page 1.                    |
|       |                                       |   |                                |                                |   |                                |
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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.

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## INSTRUCTIONS FOR CONTINUED AIRWORTHINESS AIRFRAME FUEL FILTER AS 350 B3

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#### **EUROCOPTER CANADA LIMITED**

#### 1. GENERAL

#### A. Introduction

The Airframe Fuel Filter enables operation of the helicopter at low temperatures 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.

#### B. Description

The Airframe Fuel Filter consists of the following main components:

#### **Fixed Provisions**

- Fuel Filter Support Assembly
- Drain Sump Assembly
- Base
- Deck Doubler
- Drain Bracket

#### **Detachable Provisions**

- Fuel Filter
- Hoses

For instructions for initial installation, see IP-ECL-111.

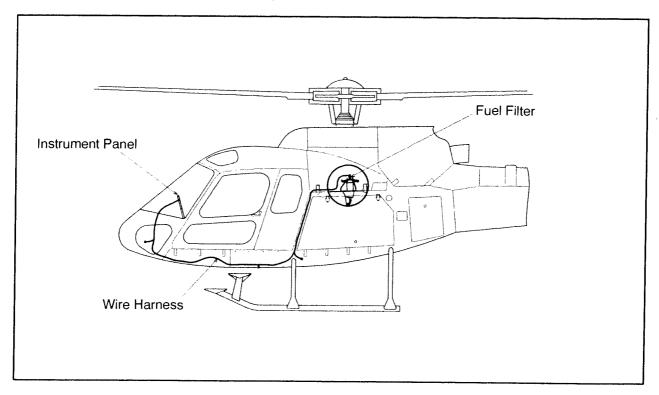


Figure 1 General Layout

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#### C. References

| DOCUMENT  | DOCUMENT TITLE  |  |
|---|---|--|
| AC-43.13 - 1B   | Acceptable Methods, Techniques and Practices - Aircraft Inspection and Repair |  |
| MET   | Maintenance Manual  |  |
| MTC   | Standard Practices Manual   |  |
| P-ECL-111 Installation Procedures, Airframe Fuel Filter |   |  |
| "Operating and Design S                                 | Specifications", Purolator Products Company                                   |  |

#### D. Abbreviations and Definitions

| ABBREVIATION | DEFINITION                |
|--------------|---------------------------|
| ĄF           | Airframe                  |
| EC           | Eurocopter (France)       |
| ECL          | Eurocopter Canada Limited |
| hrs          | hours                     |
| LHS          | Left-Hand Side            |
| Max.         | Maximum                   |
| No.          | Number                    |
| P/N          | Part Number               |
| Qty.         | Quantity                  |
| RHS          | Right-Hand Side           |

#### E. Units of Measurement

| ABBREVIATION / SYMBOL | UNIT OF MEASUREMENT                 |
|-----------------------|-------------------------------------|
|                       | Fahrenheit                          |
| GPM                   | Gallons per Minute                  |
| in.lb                 | inch.pound                          |
| in                    | inch                                |
| kg                    | kilogram                            |
| lb                    | pound                               |
| m                     | meter                               |
| m kg                  | meter kilogram                      |
| PSI                   | Pounds per Square Inch              |
| PSID                  | Pounds per Square Inch Differential |
| <b>(B)</b>            | Registered Trademark                |
|                       | 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.

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#### 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 Part No.: 1743640-01, located in Appendix A.

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

#### 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:  |   |
|      | <ul> <li>a. debris in fuel drain, below the filter<br/>and/or on the transmission deck</li> </ul> | a. Remove and clean as necessary.   |
|      | <ul> <li>secure mounting and connection of<br/>filter and hoses</li> </ul>                        | b. Secure as required.  |
|      | c. condition of electrical connector and harness  | c. Repair in accordance with AC43.13-1B 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    | <ul> <li>Push A/F FUEL FILTER by-pass<br/>"Press to Test" caution light:</li> </ul>  |   |
|      | <ul> <li>a. apply power to 4 Alpha Warning<br/>Panel (Master/Battery switch to<br/>ON) and push Press to Test A/F<br/>FUEL FILTER annunciator - lamp<br/>must illuminate.</li> </ul> | a. If lamp fails to illuminate, refer to Chapter 6, Troubleshooting, in this document |

Table 2 Inspection Schedule and Maintenance Action Pre-Flight Check

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**EUROCOPTER CANADA LIMITED** 

## INSTRUCTIONS FOR CONTINUED AIRWORTHINESS AIRFRAME FUEL FILTER AS 350 B3

### INSPECTION SCHEDULE AND MAINTENANCE ACTION (continued)

4.1.3. Every 100 flight hrs or 12 months (to coincide with the 100 hrs or 12 month helicopter inspection), whichever occurs first:

| ITEM | INSPECTION OR MAINTENANCE WORK  | CORRECTIVE ACTION   |
|------|---|---|
| Α    | <ul> <li>Check doubler, item 1, and fuel<br/>filter support assembly, item 2, in<br/>Figure 2 for:</li> </ul> |   |
|      | a. cracks or corrosion  | A. No cracks or corrosion are allowed. If cracks or deformation are found, contact ECL for replacement parts.     |
| В    | <ul> <li>Check hoses, item 12, and drain<br/>hose, item 13, in Figure 2 for:</li> </ul>                       |   |
|      | a. leaks  | 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.                               |
| С    | <ul> <li>Check base, item 1, and drain<br/>bracket, item 5, in Figure 3 for:</li> </ul>                       |   |
|      | a. cracks or corrosion  | No cracks or corrosion are allowed. If cracks or deformation are found, contact ECL for replacement parts.        |
| D    | Check drain sump assembly, item     6, in Figure 3 for:   |   |
|      | a. cracks or deformation  | No cracks or deformation are allowed. If cracks or deformation are found, contact ECL for replacement parts.      |
| E    | - Check placards and markings in Figures 6, 7, 8, 9, 10 and 11 (Section 10) for:                              |   |
|      | a. legibility   | <ul> <li>a. If placards and markings have<br/>become illegible, contact ECL for<br/>replacement parts.</li> </ul> |
|      | b. secure mounting  | <ul> <li>Secure, reattach placards as required.</li> </ul>  |

Table 3 Inspection Schedule and Maintenance Action Every 100 flight hrs or 12 months, whichever occurs first (continued on following page)

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- 4. INSPECTION SCHEDULE AND MAINTENANCE ACTION (continued)
  - 4.1.4. Every 500 flight hrs or 24 months, whichever occurs first:

| ITEM | INSPECTION OR MAINTENANCE WORK                     | CORRECTIVE ACTION                    |
|------|--|--------------------------------------|
| Α    | Perform Operational Test - Switch and Bypass Valve | Instructions given following Table 5 |

Table 4 Inspection Schedule and Maintenance Action Every 500 flight hrs or 24 months, whichever occurs first

4.1.5. Every 1000 flight hrs or 48 months (to coincide with the 1000 hrs or 48 month helicopter inspection), whichever occurs first:

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

Table 5 Inspection Schedule and Maintenance Action Every 1000 flight hrs or 48 months, whichever occurs first

**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 Instructions. Refer to MET 28-00-00.
- b. 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.
- c. Replace filter element with clean dummy element.
- d. Disconnect outlet hose of optional fuel filter from inlet of shut-off valve and place hose in a suitable container to collect fuel.
- e. Turn on fuel pump(s).
- f. The A/F FUEL FILTER annunciator should illuminate, and fuel should freely flow from outlet hose of fuel filter into the container.
- g. When test is successfully completed, remove dummy element and install filter element. Follow instructions given in Chapter 4, Replacement Fuel Filter Element.
- h. Operate fuel pump and open fuel filter bowl drain until all air is purged.
- i. Reconnect outlet hose of optional fuel filter to inlet of shut-off valve.

#### Replacement - Fuel Filter Element

- a. Observe FUEL SYSTEM General Instructions. Refer to MET 28-00-00.
- b. Drain fuel from filter bowl into a container.
- c. Refer to Appendix "Operating Instructions" Purolator Products Company for Fuel Filter Element Change.
- d. 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.

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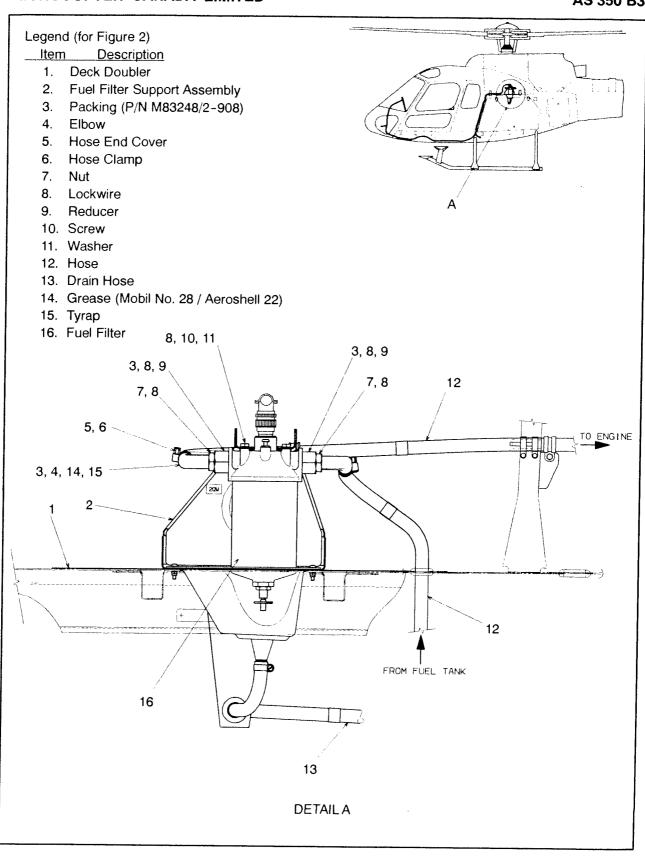


Figure 2 Airframe Fuel Filter Installation

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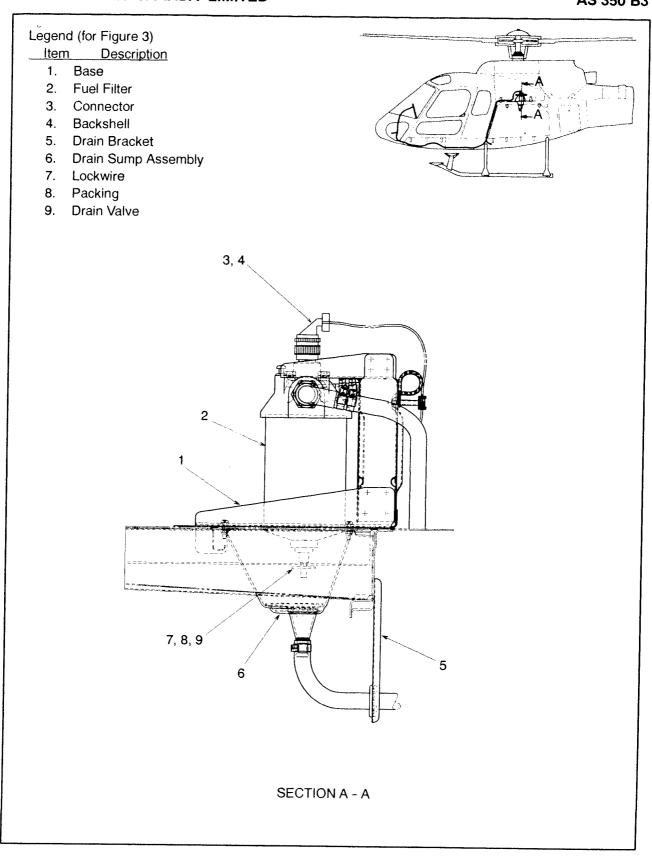


Figure 3 Side view of Airframe Fuel Filter Installation

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## INSTRUCTIONS FOR CONTINUED AIRWORTHINESS AIRFRAME FUEL FILTER AS 350 B3

#### 5. **OVERHAUL REQUIREMENTS**

No overhaul requirements for this installation.

#### 6. TROUBLESHOOTING

For electrical system troubleshooting, refer to Figures 4 and 5, Wiring Diagram.

| No.                                    | 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<br>MS25237-327   |
| 2                                      | A/F FUEL FILTER lamp does not illuminate during Operational Test           | Break or short in annunciator circuit   | Perform circuit continuity<br>check and repair/replace<br>wiring as applicable in<br>accordance with AC43.13-1B,<br>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 AC43.13-1B, Chapter 11, Section 1.             |

Table 6 Troubleshooting Guide

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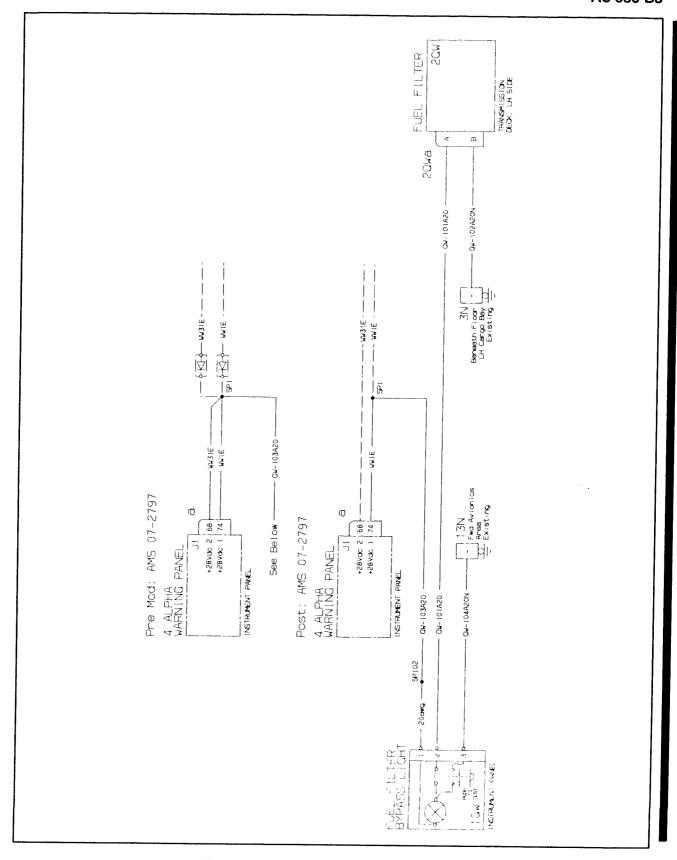


Figure 4 Wiring Diagram (Sheet 1 of 2)

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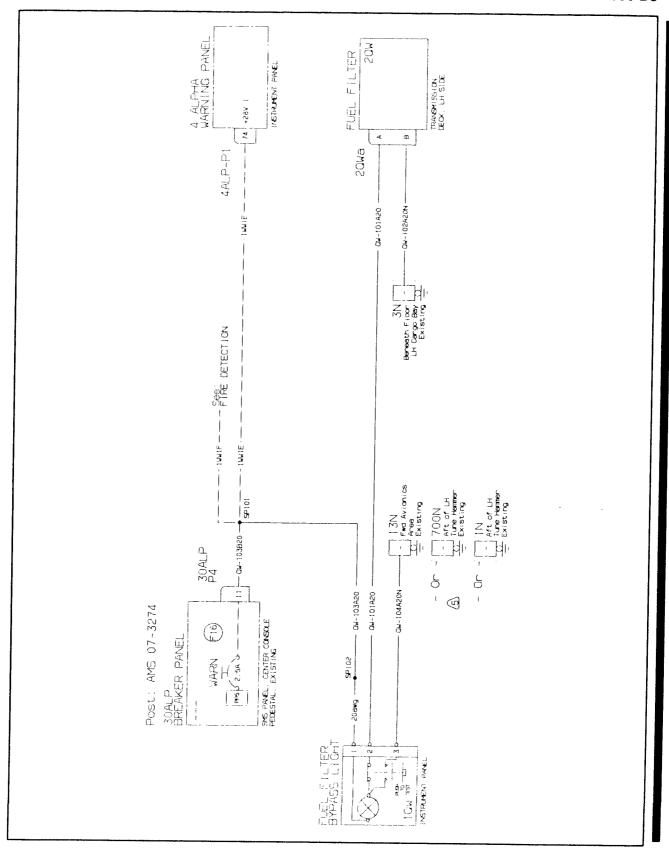


Figure 5 Wiring Diagram (Sheet 2 of 2)

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#### 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**

- disconnect the battery
- Observe FUEL SYSTEM General Instructions. Refer to MET 28-00-00.
- open the engine and left MGB cowling (Removal / Installation refer to Maintenance Manual Chapter 53.51.00)

#### A. REMOVAL

- 1) Fuel Filter (Refer to Figures 2 and 3)
  - a) Disconnect hose clamps (6, 4 places) from both sides of the fuel filter (16) and slide hose end covers (5) from elbows (4). Retain hose clamps (6). Refer to Figure 2.
  - b) Remove packing (3, 2 places) from elbows (4, 2 places) and discard. 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 (2) 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 (16) to top of fuel filter support assembly (2). Refer to Figure 2.
  - f) Remove fuel filter (16). Retain screws (10) and washers (11) for reinstallation. Refer to Figure
     2.

#### 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 (16) into fuel filter support assembly (2) 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) Repack elbow (4, 1 place) on LHS of fuel filter (16) with new packing (3, 1 place). Reconnect hose (12) to elbow (4) and secure reusing hose clamps (6, 2 places).
  - c) Repack elbow (4, 1 place) on RHS of fuel filter (16) with new packing (3, 1 place). Reconnect hose (12) to elbow (4) and secure reusing hose clamps (6, 2 places).

**NOTE** Apply grease (14) to the nipple of elbows (4, 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.

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#### 9. WEIGHT AND BALANCE DATA

| DESCRIPTION   | WEIGHT |      | ARM  |       | MOMENT |        |
|---------------|--------|------|------|-------|--------|--------|
|               | kg     | lbs  | m    | in    | kg m   | lb in  |
| Floor Cut-out | 0.09   | 0.2  | 3.50 | 137.7 | 0.31   | 27.54  |
| Total         | -0.09  | -0.2 | 3.50 | 137.7 | -0.31  | -27.54 |

| DESCRIPTION          | WEIGHT |     | ARM  |       | MOMENT |        |
|----------------------|--------|-----|------|-------|--------|--------|
|                      | kg     | lbs | m    | in    | kg m   | lb in  |
| Airframe Fuel Filter | 3.44   | 7.6 | 3.50 | 137.7 | 12.04  | 1046.5 |
| Total                | 3.44   | 7.6 | 3.50 | 137.7 | 12.04  | 1046.5 |

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#### 10. PLACARDS AND MARKINGS

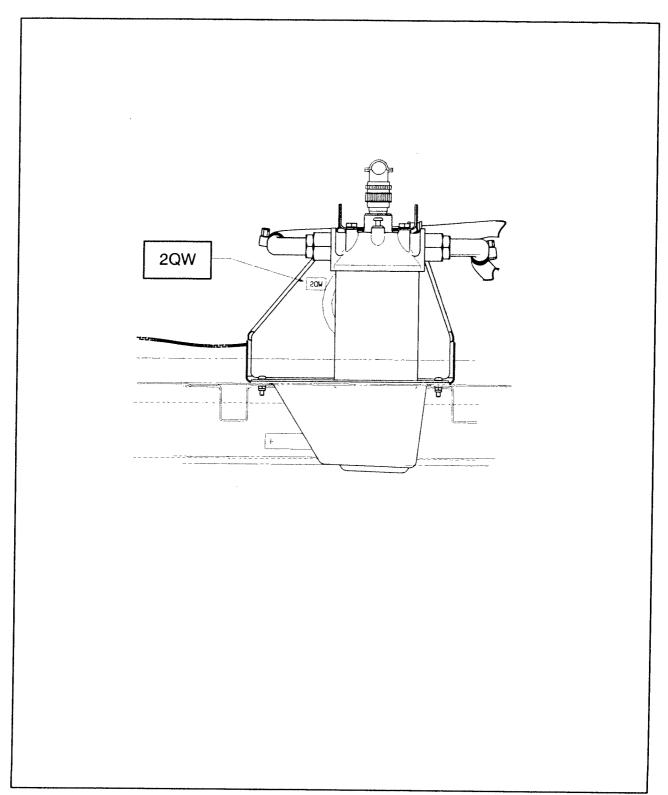


Figure 6 Identification Label on Fuel Filter Support Assembly

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#### 10. PLACARDS AND MARKINGS

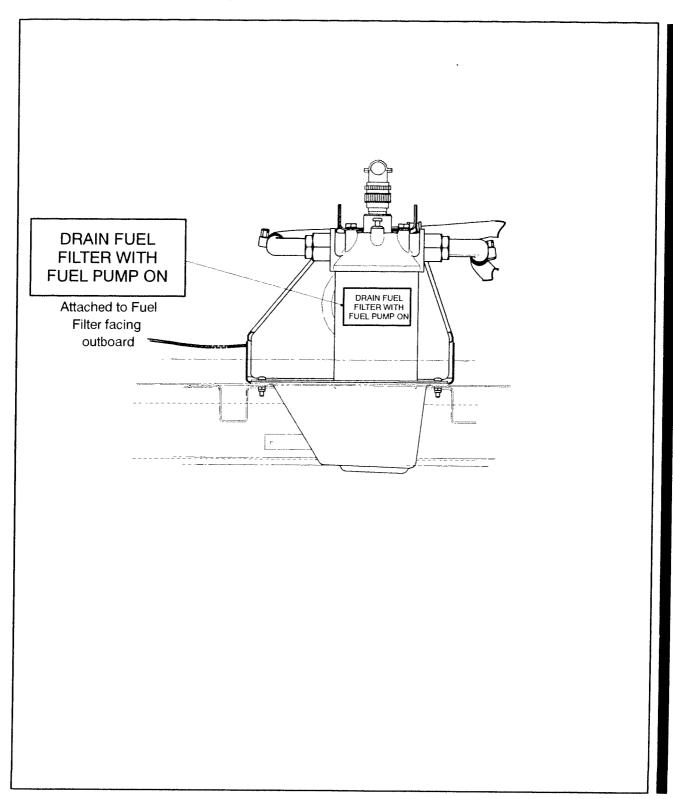


Figure 7 Placard on Fuel Filter

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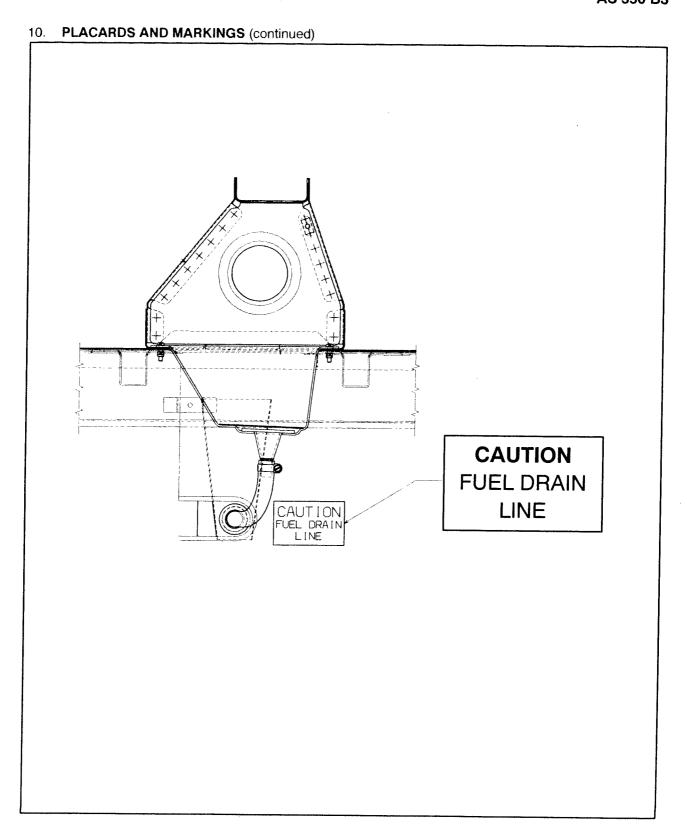


Figure 8 Placard in LH Cargo Compartment

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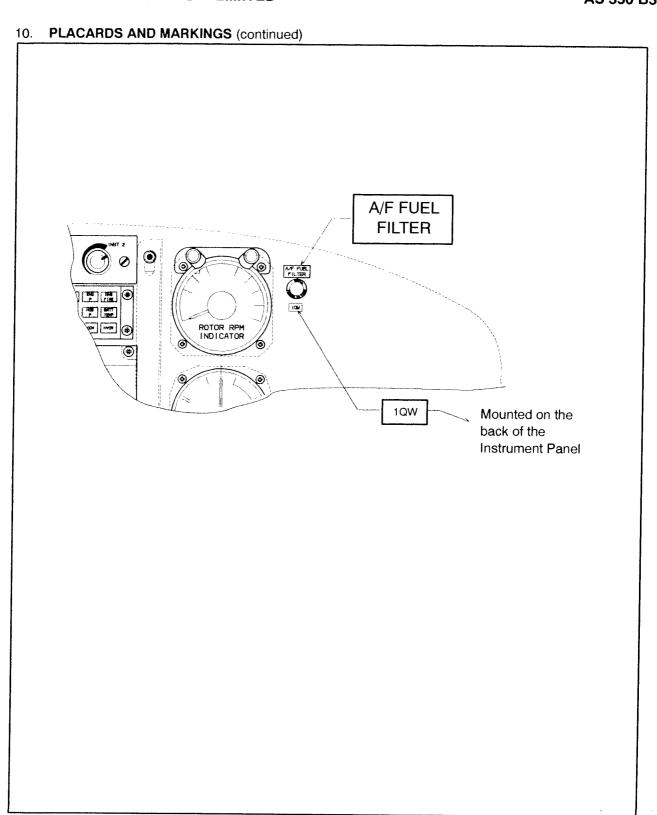


Figure 9 Placard and Identification Label on Instrument Panel

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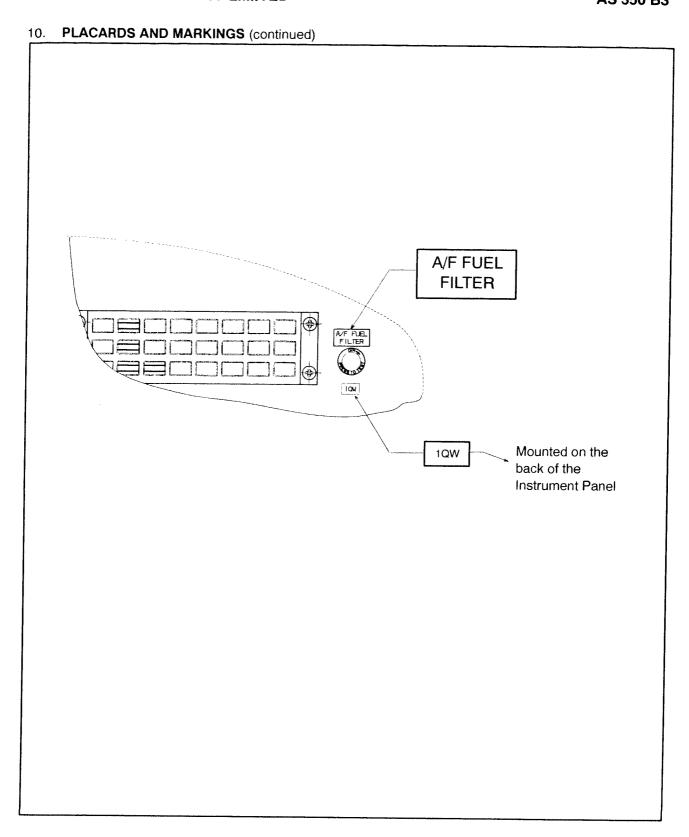


Figure 10 Placard and Identification Label on alternative Instrument Panel

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10. PLACARDS AND MARKINGS (continued)

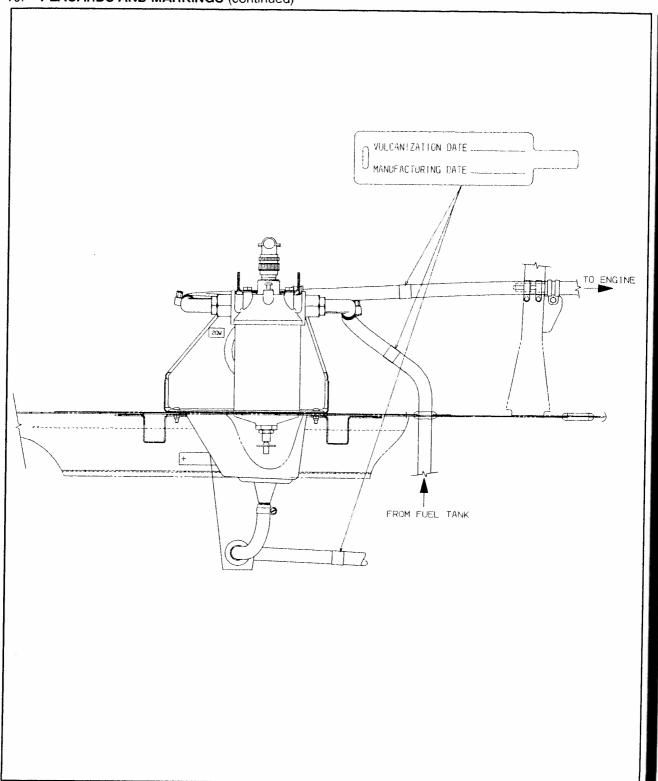


Figure 11 Identification Tags on hoses

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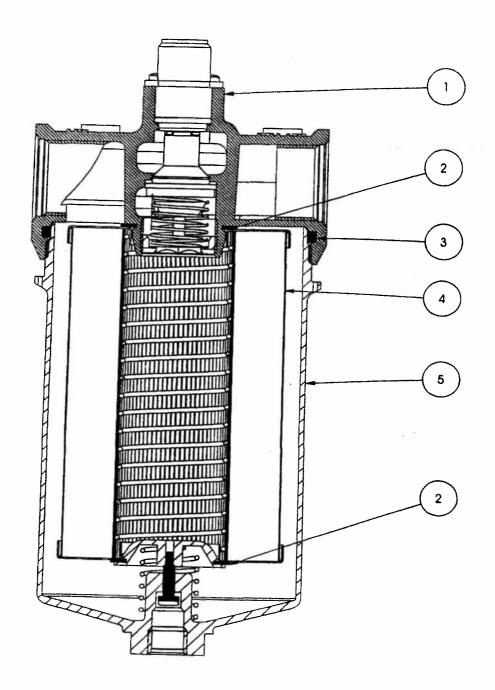


# Operating & Design Specifications Fuel Filter Assembly Part No.: 1743640-01

### 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.<br>2.<br>3.<br>4. | 1<br>2<br>1<br>1 | 1744990-01<br>1743629-01<br>034921-01<br>1743645-01 | Head Assembly<br>Seal<br>O-Ring<br>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.
  - I. 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.