

SUBJECT: AIRFRAME FUEL FILTER WITH CRASH-RESISTANT FUEL SYSTEM (P/N 350-600044)

The Airframe-Mounted Fuel Filter with Crash-Resistant Fuel System provides additional fuel filtering capability upstream of the existing engine fuel filter.

APPLICABILITY:

This Flight Manual Supplement must be used when the Airframe-Mounted Fuel Filter with Crash-Resistant Fuel System is installed on AS 350 B3 helicopters with Arriel 2D engine (MOD OP4305) and Fuel System Improving Crashworthiness (MOD OP4605 or MOD 0720034).

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IMPORTANT NOTE


THE INFORMATION AND DATA CONTAINED IN THIS DOCUMENT SUPERSEDE OR SUPPLEMENT THAT CONTAINED IN THE BASIC APPROVED FLIGHT MANUAL FOR THE AS 350 B3 HELICOPTER IN THOSE AREAS LISTED HEREIN. FOR LIMITATIONS, PROCEDURES AND PERFORMANCE NOT CONTAINED IN THIS DOCUMENT REFER TO THE APPROVED FLIGHT MANUAL AND OTHER APPLICABLE APPROVED FLIGHT MANUAL SUPPLEMENTS.

SECTIONS 2, 3, 4 AND 5 OF THIS DOCUMENT COMPRISE THE APPROVED FLIGHT MANUAL SUPPLEMENT. COMPLIANCE WITH SECTION 2, LIMITATIONS, IS MANDATORY.

SECTIONS 1 AND 6 ARE UNAPPROVED AND ARE PROVIDED FOR INFORMATION ONLY.

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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 4 March 2021	G. Krebs 17 March 2021	TCCA G. David 6 March 2021	P. Sharpe 6 March 2021
1	1 through 9	Addition of MOD 0720034 referenced in Sections Applicability and General. Addition of Export Control statement to document. (Pages 4 & 5)	See page 1.	See page 1.	See page 1.	See page 1.

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.
 NOTE: Minor changes are released in accordance with TCCA - ACCEPTED CAR 521.154 procedures (ref. DAPM-E-0001).

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1. GENERAL (unapproved)

The installation of the Airframe-Mounted Fuel Filter with Crash-Resistant Fuel System provides additional fuel filtering capability upstream of the existing engine mounted fuel filter. The unit has a finer filtration rating than the existing engine mounted fuel filter. This installation must be used with AS 350 B3 helicopters with Arriel 2D engine (MOD OP4305) and Fuel System Improving Crashworthiness (MOD OP4605 or MOD 0720034). Refer to Figure 1 for General Layout.

An annunciator warning light on the Instrument Panel will illuminate indicating an impending bypass. Refer to Figures 2 and 3.

The fuel filter unit is mounted on the transmission deck. A containment box surrounds the filter which has a removable maintenance cover. The fuel lines are of the same double walled construction as the other fuel lines on the aircraft.

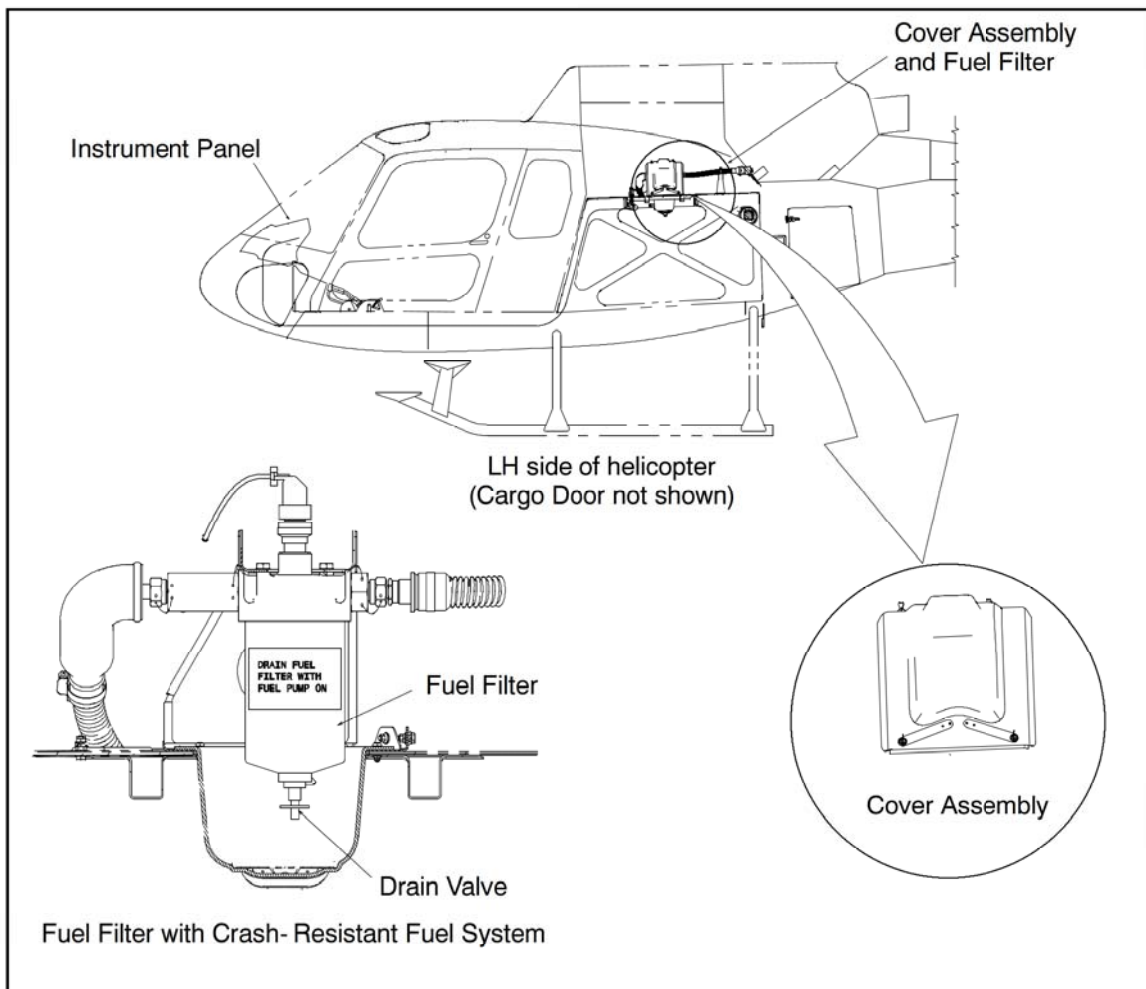


Figure 1 General Layout

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1. GENERAL (unapproved) (continued)

Abbreviations and Definitions

ABBREVIATION	DEFINITION
AF F FILT	Airframe Fuel Filter
AH	Airbus Helicopters (France)
AHCA	Airbus Helicopters Canada Limited
AHI	Airbus Helicopters Incorporated
A/W	Airworthiness
Acc'd	Accepted
App'd	Approved
°C	Degrees Celsius
CAR	Canadian Aviation Regulations
DAPM	Design Approval Procedures Manual
FMS	Flight Manual Supplement
ft.	feet
FUEL FILT	Fuel Filter
FUEL P	Fuel Pressure
Hp	Pressure Altitude
LH	Left Hand
MOD OP4305	Modification Operational Equipment 4305
MOD OP4605	Modification Operational Equipment 4605
MOD 0720034	Modification Operational Equipment 0720034
OAT	Outside Ambient Temperature
P/N	Part Number
Rev.	Revision
RH side	Right Hand side
STC	Supplemental Type Certificate
TCCA	Transport Canada Civil Aviation

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2. LIMITATIONSa. **Operation****Approved Fuels**

Refer to Section 2.5.1 of the Flight Manual.

Operation with NORMAL FUELS only. Operation with REPLACEMENT FUELS is prohibited.

Altitude

Operation with NORMAL FUELS Hp = 12,000 ft.

Fuel Additives

If fuel does not contain a freezing inhibitor, and if the OAT is below +5°C, the use of an anti- ice additive is mandatory. Approved anti- icing additives are found in the basic Flight Manual, Section 2.5.1.

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3. EMERGENCY PROCEDURES

AF F FILT light ON

- Follow basic Flight Manual procedures for FUEL FILT light continuously ON. Refer to Figures 2 and 3.

NOTE If the AF F FILT annunciator light illuminates during flight it indicates an impending bypass of the airframe- mounted fuel filter.

NOTE Limit maneuvering and angle of bank to <30 degrees when the AF F FILT annunciator light is illuminated.

NOTE Monitor Caution and Warning Panel for FUEL P light. If FUEL P light illuminates, follow basic Flight Manual procedures for FUEL P light.

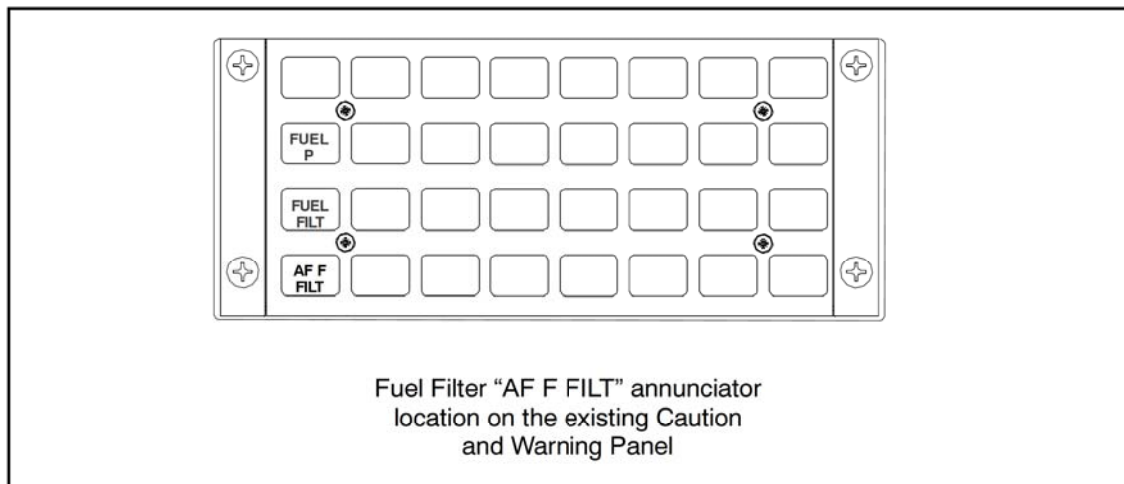


Figure 2 Annunciator Light on Instrument Panel

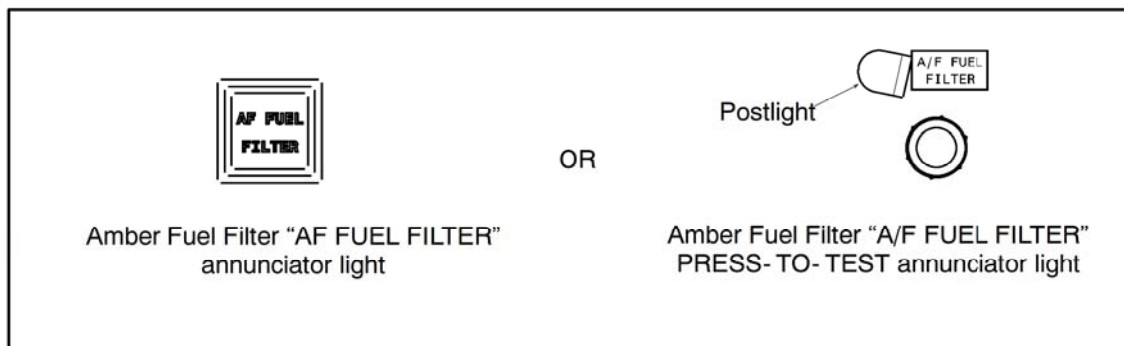


Figure 3 Alternate Annunciator Lights on Instrument Panel

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4. NORMAL PROCEDURES

a. Before the first flight of each day

- | | | |
|---|---|---|
| Airframe fuel filter cover | - | Remove cover |
| Battery | - | ON |
| Fuel pump | - | ON |
| If OAT > 0°C | | |
| Fuel filter and lines | - | Open drain valve, purge any water from the system. |
| Fuel filter and lines | - | Close drain valve. |
| Fuel filter and lines | - | Check for leaks. Check for security. |
| If OAT ≤ 0°C | | |
| Fuel filter and lines | - | Check for leaks. Check for security. |
| Press the “Press- to- Test” button on the Fuel Filter | - | The AF F FILT annunciator light illuminates |
| Fuel pump | - | OFF |
| Battery | - | OFF |
| Fuel drain and transmission deck | - | No debris on fuel drain and /or transmission deck. Check for leaks. |
| Airframe fuel filter cover | - | Install and secure |

b. Engine Prestart Check

Verify AF F FILT (refer to Figure 2) or AF FUEL FILTER (refer to Figure 3) annunciator light illuminates when W/LT TEST or W/LT TST Engine Prestart Check is performed.

If operating with A/F FUEL FILTER “PRESS- TO- TEST” annunciator light. Refer to Figure 3.

- | | | |
|--|---|---------------------------|
| Press A/F FUEL FILTER by- pass “PRESS- TO- TEST” caution light | - | Caution light illuminates |
|--|---|---------------------------|

5. PERFORMANCE DATA

No change to existing Flight Manual.

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6. WEIGHT AND BALANCE (UNAPPROVED)

Total changes to weight and balance resulting from this modification are covered in the applicable instructions for continued airworthiness.

Items that are removed between routine operations: Not applicable

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