



AIRBUS HELICOPTERS CANADA LIMITED

**FLIGHT MANUAL SUPPLEMENT
AIRFRAME FUEL FILTER
AS 350 B3
(Arriel 2D Engine)**

SUBJECT: AIRFRAME FUEL FILTER (P/N 350-600024)

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.

APPLICABILITY:

This Flight Manual Supplement must be used when the Airframe Fuel Filter is installed on POST MOD 4305 AS 350 B3 helicopters with the Arriel 2D engine.

Department of Transport
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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.

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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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REV. 3 ACCEPTED: (Civil A/W Authority)	SEE RCA STAMP <i>C. Timmins</i>	15 th June, 2015	TCCA
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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 10	Original Issue	D. Kerr 18 September 2012	C. Timmins 18 September 2012	N/A	R. Manson 5 November 2012
1	1 through 10	Additional abbreviations added. Reference to Jet B fuel removed. (pages 6 & 7)	D. Kerr 9 November 2012	C. Timmins 9 November 2012	TCCA G. David 19 December 2012	R. Manson 21 December 2012
2	1 through 10	Limitations section revised to reflect NORMAL and REPLACEMENT FUEL exceptions. (Page 7)	D. Kerr 21 December 2012	C. Timmins 21 December 2012	TCCA G. David 21 December 2012	R. Manson 21 December 2012
3	1 through 9	Company name and logo revised. Figure 2 revised. Abbreviations added to Section 1. Revised Section 2.c. New NOTE limiting maneuvering when A/F F/F light is illuminated added to Section 3. (Pages 3 to 7)	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 Fuel Filter system enables operation of the helicopter at low operating temperatures (below -20°C) without the use of anti-ice additives in the fuel. The filter is designed to collect ice particles.

NOTE This document is only applicable to POST MOD 4305 AS 350 B3 helicopters equipped with the Arriel 2D engine. For PRE MOD 4305 AS 350 B3 helicopters equipped with the Arriel 2B or 2B1 engine, see Airbus Helicopters Canada Limited FMS-ECL-15.

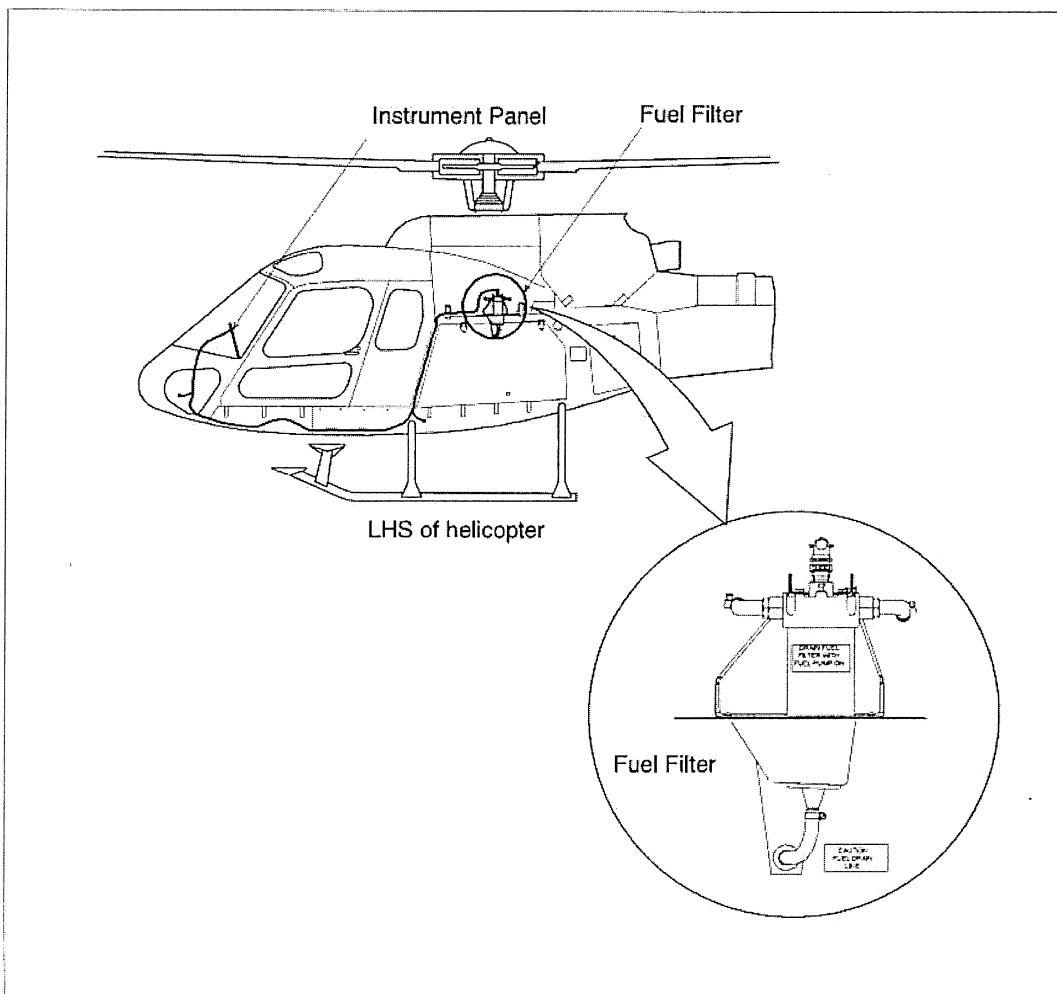


Figure 1 General Layout

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1. GENERAL (unapproved) (continued)

Abbreviations and Definitions

ABBREVIATION	DEFINITION
A/F	Airframe
AH	Airbus Helicopters (France)
AHCA	Airbus Helicopters Canada Limited
A/W	Airworthiness
Acc'd	Accepted
App'd	Approved
°C	Degrees Celsius
CAR	Canadian Aviation Regulations
DAPM	Design Approval Procedures Manual
F/F	Fuel Filter
FILT	Filter
FMS	Flight Manual Supplement
ft.	feet
Hp	Pressure Altitude
ISA	International Standard Atmosphere
LHS	Left Hand Side
MOD	Modification
Ng	Engine Generator Speed
PAHI	Transport Canada Civil Aviation, Ontario Region, Engineering (Aircraft Certification)
P/N	Part Number
ref.	reference
RHS	Right Hand Side
RPM	Revolutions Per Minute
STC	Supplement Type Certificate
TCCA	Transport Canada Civil Aviation

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2. LIMITATIONS**a. Approved Fuels**

For approved fuels, section 2.5.1 of the Flight Manual Supplement applies, with the following exceptions:

Operation with NORMAL FUELS is limited to Hp = 15,000 ft.

Operation with REPLACEMENT FUELS is prohibited.

b. Additives

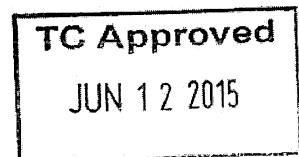
Anti-ice additives are not required when operating with the standard fuel system.

When a Ferry Flight Fuel Tank is installed, anti-ice additives must be used at temperatures below -20°C.

c. Annunciator Light

An annunciator light is located on the instrument panel in clear view of the pilot, adjacent to other caution or warning lights. The position may vary depending on other optional equipment installed. Refer to Figure 2.

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3. EMERGENCY PROCEDURES

- | | |
|--|--|
| <p>FUEL FILT LIGHT ON
<u>OR</u>
A/F FUEL FILTER LIGHT ON</p> | <ul style="list-style-type: none"> - Follow basic Flight Manual procedures for FUEL FILT LIGHT ON. |
| <p>FUEL FILT LIGHT ON
<u>AND</u>
A/F FUEL FILTER LIGHT CONTINUOUSLY ON</p> | <ul style="list-style-type: none"> - Land as soon as possible - Monitor N1; if oscillations occur, land immediately. |

NOTE If the A/F Fuel Filter annunciator light illuminates during flight it may indicate an impending bypass of the filter.

NOTE Limit maneuvering when the A/F Fuel Filter annunciator light is illuminated.

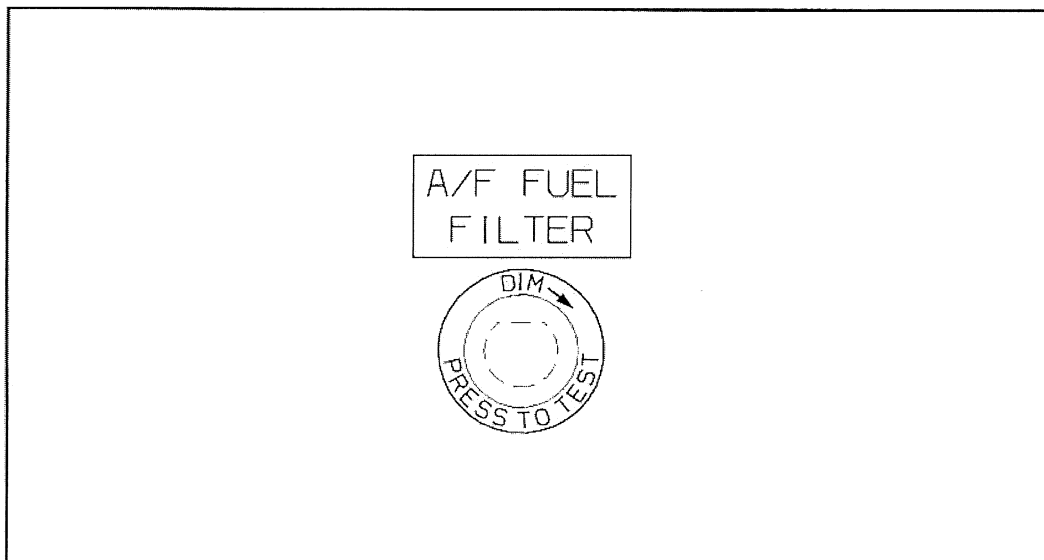
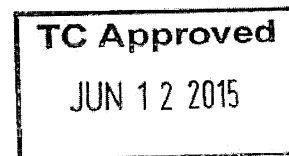


Figure 2 Press to Test / Annunciator Light

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4. NORMAL PROCEDURES

a. Before the first flight of each day

- Battery - ON
- Fuel pump - ON
- Fuel filter and lines - Open drain valve, purge any air or water from the system. Close drain valve.
- Drain valve and fuel filter - Check for leaks
- Fuel Pump - OFF
- Battery - OFF
- Fuel drain and transmission deck - No debris on fuel drain and/or transmission deck

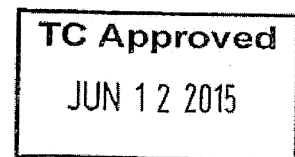
b. Pre-Flight Check

- Battery - ON
- Press A/F FUEL FILTER by-pass "press to test" caution light - Caution light illuminates

5. PERFORMANCE DATA

No Change.

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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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