

#### **AIRBUS HELICOPTERS CANADA LIMITED**

#### FLIGHT MANUAL SUPPLEMENT AIRFRAME FUEL FILTER EC 130 B4

## SUBJECT: AIRFRAME FUEL FILTER (P/N 130-600004)

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 the helicopter.

Department of Transport (Canada) Approved

	CANADA DEPARTMENT OF TRANSPORT AIRCRAFT CERTIFICATION BRANCH
	JUN 1 2 2015
	APPROVED BY SHOZ-42
L	ISSUE NO. 7

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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 EC 130 B4 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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## AIRBUS HELICOPTERS CANADA LIMITED

## **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 5	Original Issue	A. Magner 10 Dec., 2002	T. Czarnecki 13 Dec., 2002	TCCA Eric Cheung 17 Dec., 2002	R. Manson 17 Dec., 2002
1	1 through 5	Pages 4, revised Temperature Limitations	D. Kerr 19 Dec., 2003	T. Czarnecki 19 Dec., 2003	TCCA Eric Cheung 19 Dec., 2003	R. Manson 19 Dec., 2003
2	1 through 7	Pages 1 through 7. Format update, text revisions.	D. Kerr 21 July 2004	C, Timmins 21 July 2004	TCCA Eric Cheung 3 Aug. 2004	R. Manson 3 Aug. 2004.
3	1 through 9	Revised Preflight Checks and operation of Press to Test button. Placard locations clarified. (Pages 3 to 7)	D. Kerr 13 June 2006	C. Timmins 13 June 2006	TCCA J. Palmer 13 June 2006	P. Garofalo 14 June 2006
4	1 through 8	Corrected Section 2. Addition of illustration to Section 3. Revised Section 4, Normal Procedures from START UP/Engine Prestart Check to Before the first flight of each day and Pre-Flight Check. Section 6, location of the Weight and Balance information corrected. (Pages 5 to 8)	D. Kerr 17 August, 2006	C. Timmins 18 August, 2006	TCCA J. Palmer 7 December, 2006	R. Manson 11 December, 200
5	1 through 9	Replace "boost" pump reference with "fuel" pump in Sec. 4. Addition of placard on Fuel Filter. (Pages 3, 4, 6, and 8)	D. Kerr 28 March 2008	C. Timmins 28 March 2008	TCCA J. Palmer 7 April 2008	R. Manson 9 April 2008

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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 10	Company name and logo revised. Figures 1 & 2 illustrations revised. Abbreviations added to Sec. 1. Revised Section 2.b. New NOTE limiting maneuvering when A/F F/F light is illuminated added to Section 3. (Pages 4 to 8)	See page 1.	See page 1.	See page 1.	See page 1.
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NOTE:	Revisions	to this	document will b	e distributed to operator	s 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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JUN 1 2 2015

Rev. 6



## AIRBUS HELICOPTERS CANADA LIMITED

## FLIGHT MANUAL SUPPLEMENT AIRFRAME FUEL FILTER EC 130 B4

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## AIRBUS HELICOPTERS CANADA LIMITED

## 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.

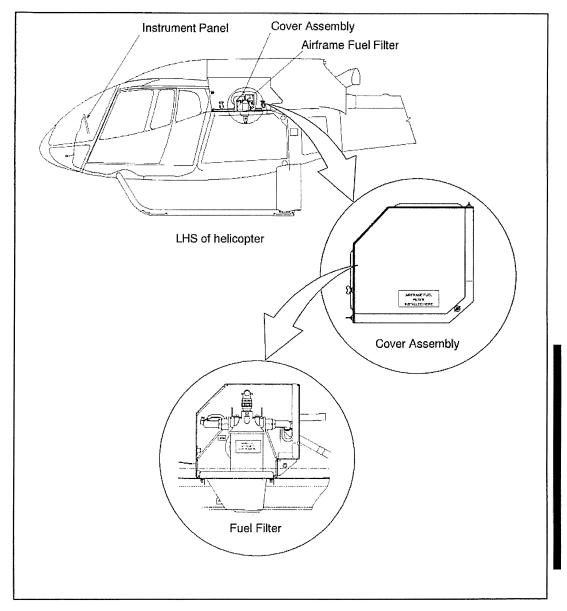


Figure 1 General Layout

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## AIRBUS HELICOPTERS CANADA LIMITED

## 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
Нр	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
Rev.	Revision
Sec.	Section
STC	Supplemental Type Certificate
TCCA	Transport Canada Civil Aviation
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### **AIRBUS HELICOPTERS CANADA LIMITED**

#### 2. LIMITATIONS

## a. Operation

Maximum Operating Altitude in Flight

Jet A -

Hp = 16,000 ft.

Jet B

Hp = 15,000 ft.

Temperature Limitations

i. Minimum Temperature

No change

ii. Maximum Temperature

Jet A

- No change

Jet B

- ISA + 30° C

Limited to + 43° C

Fuel Additives

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

## b. 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

**FUEL FILT LIGHT ON** 

<u>OR</u>

A/F FUEL FILTER LIGHT ON

**FUEL FILT LIGHT ON** 

<u>AND</u>

A/F FUEL FILTER LIGHT ON

 Follow basic Flight Manual procedures for FUEL FILT LIGHT ON.

- Land as soon as possible

 Monitor Ng; if oscillations occur, land immediately and apply autorotation procedure.

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.

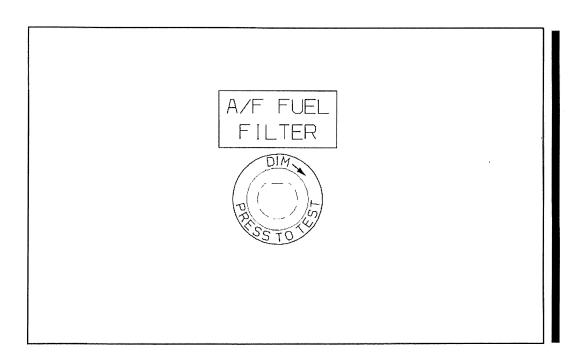


Figure 2 Press to Test / Annunciator Light

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## 4. NORMAL PROCEDURES

NOTE Cover must be removed to access drain valve.

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

Airframe fuel filter enclosure

- Secured

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