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
APR 07 2008
APPROVED
BY
NAPA NO a-08-0208
CERTASSUE NO 5102-42, 2005

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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.

	NAME AND SIGNATURE	DATE	COMPANY DEPARTMENT
PREPARED BY	D. Kerr	28 Mar 08	ECL ENGINEERING
PREPARED BY			
CHECKED BY	C. Timmins	28th March 2008	ECL ENGINEERING
CHECKED BY	T Czarnecki	28 Mar 08	ECL ENGINEERING
APP'D / ACCEPTED (Civil A/W Authority)	(See TCCA Stamp)	9th April 2008	TCCA
RELEASED BY	R. Manson	9 Apr 08	ECL ENGINEERING

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 2006
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)	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.

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CONTENTS

FIGURES

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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.

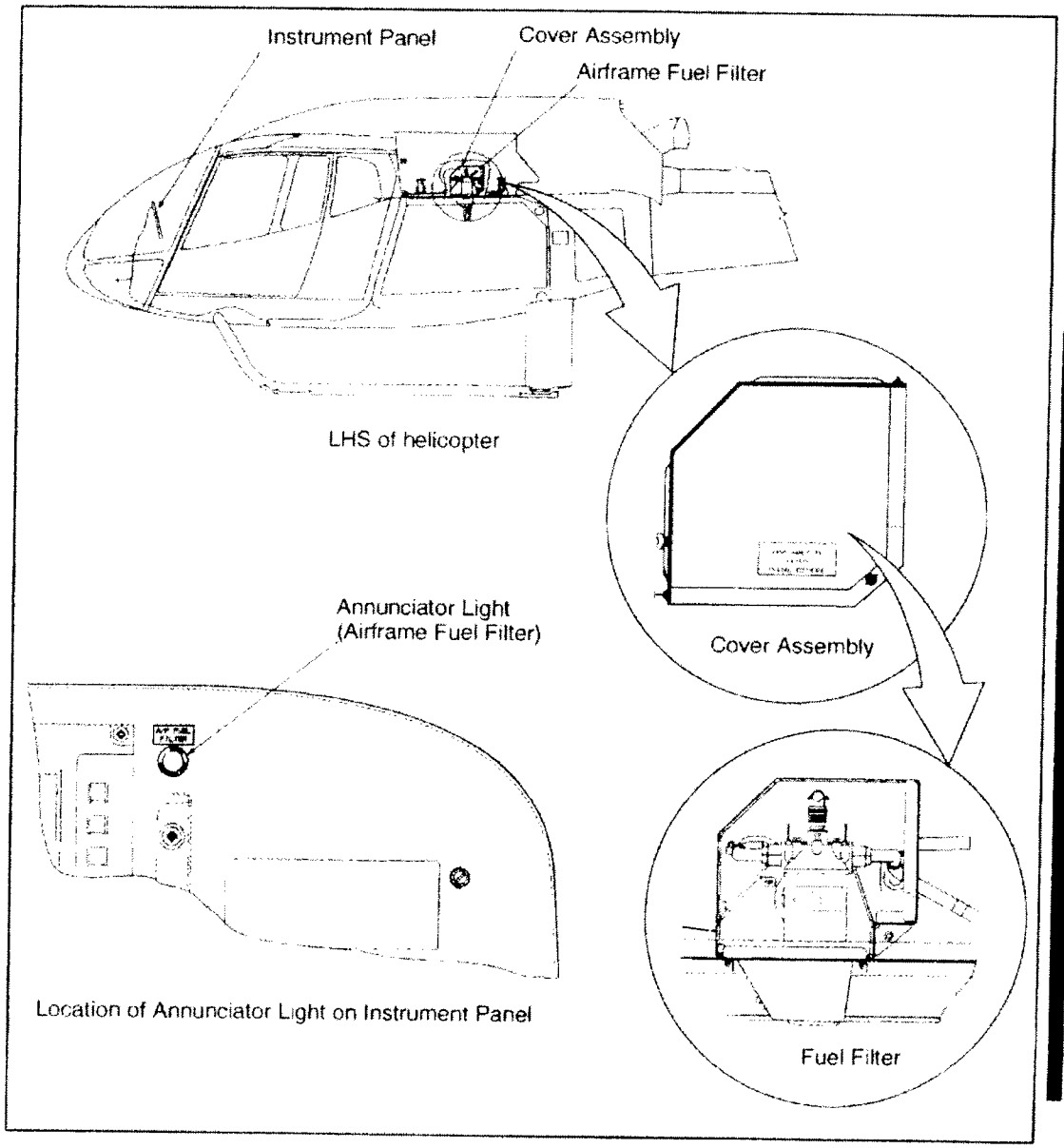

Figure 1 Airframe Fuel Filter Installation

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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.

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b. **Placards**

There are three placards associated with the Airframe Fuel Filter Installation. For placard locations, refer to Figure 1.

1) Placard:

A/F FUEL FILTER

Location: Located on the RHS of the Instrument Panel.

2) Placard:

AIRFRAME FUEL FILTER INSTALLED HERE

Location: Located on the Fuel Filter Cover Assembly.

3) Placard:

DRAIN FUEL FILTER WITH FUEL PUMP ON

Location: Located on the Fuel Filter facing outboard.

3. EMERGENCY PROCEDURES

FUEL FILT LIGHT ON OR A/F FUEL FILTER LIGHT ON	- Follow basic Flight Manual procedures for FUEL FILT LIGHT ON.
FUEL FILT LIGHT ON AND A/F FUEL FILTER LIGHT ON	- Land as soon as possible - Monitor Ng; if oscillations occur, land immediately and apply autorotation procedure.

NOTE If annunciator light illuminates during flight it may indicate an impending bypass of the filter.

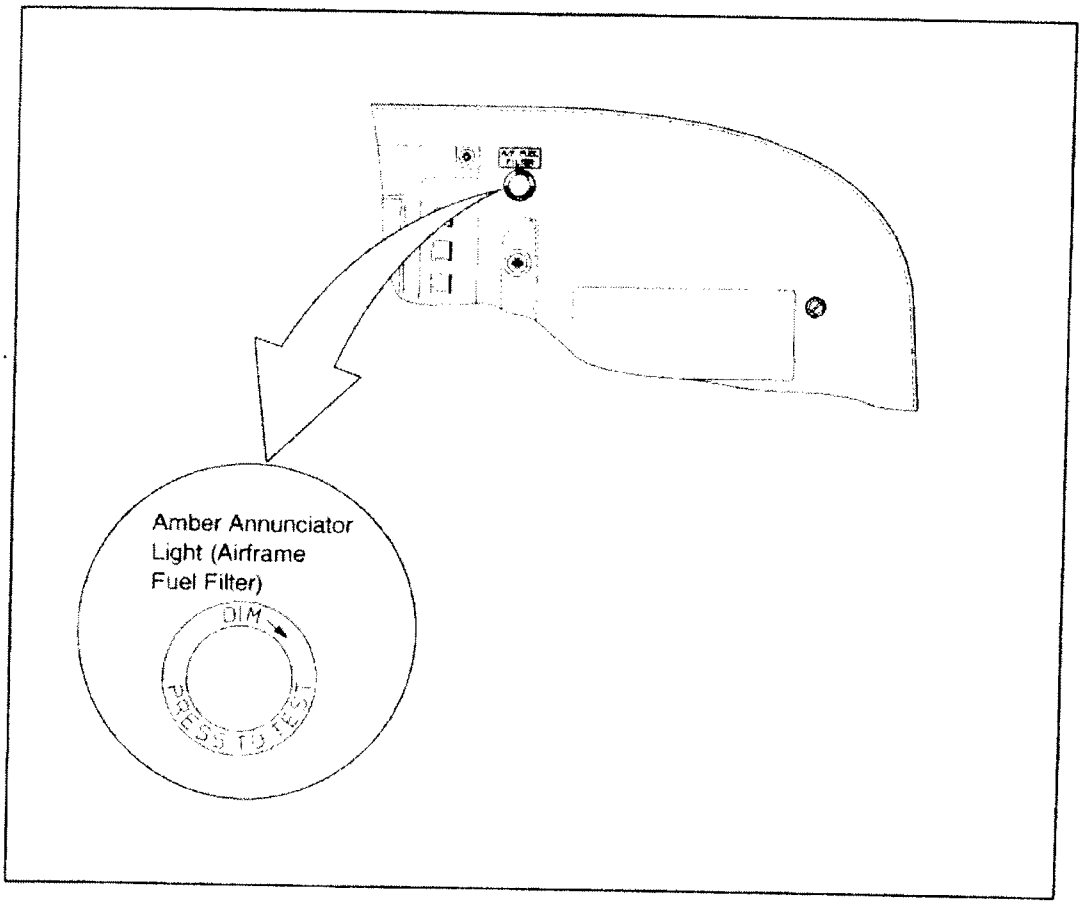

Figure 2 Press to Test / Annunciator Light on the Instrument Panel

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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.

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