



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
(Canada) Approved

IMPORTANT NOTE



THE INFORMATION AND DATA CONTAINED IN THIS DOCUMENT SUPERSEDE OR SUPPLEMENT THAT CONTAINED IN THE BASIC APPROVED FLIGHT MANUAL FOR THE AS350 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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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)	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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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 Eurocopter Canada Limited FMS-ECL-15.

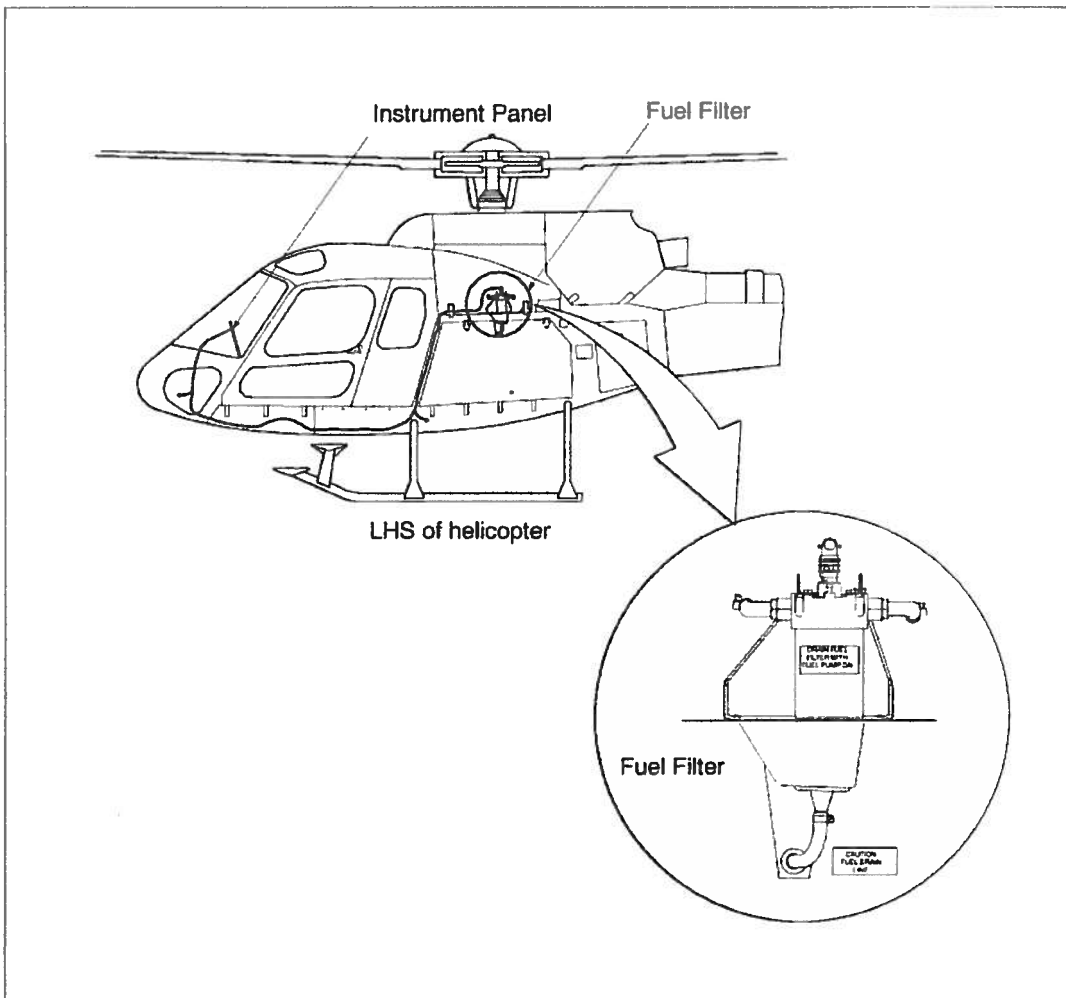


Figure 1 General Layout

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1. GENERAL (unapproved) (continued)

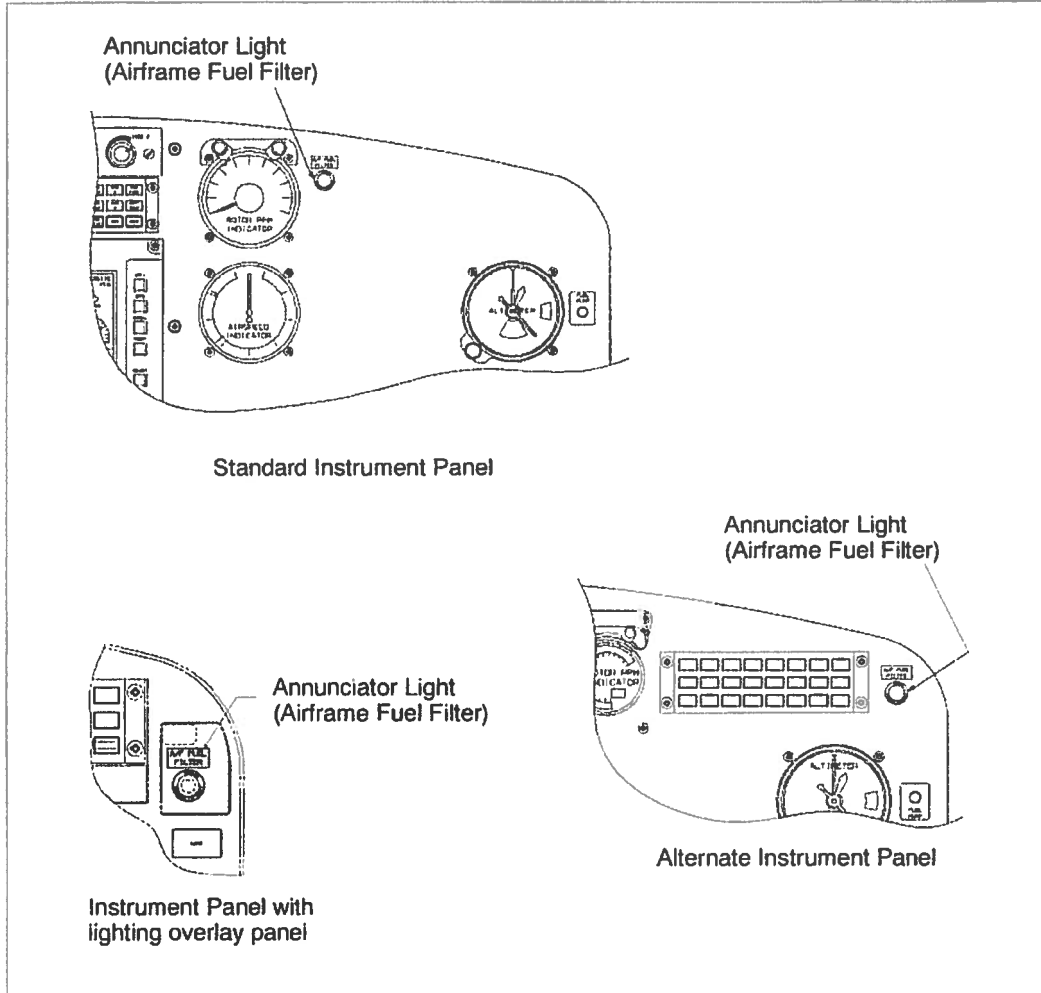


Figure 2 Annunciator Light locations on Instrument Panel

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1. GENERAL (unapproved) (continued)

Abbreviations and Definitions

ABBREVIATION	DEFINITION
A/F	Airframe
A/W	Airworthiness
Acc'd	Accepted
App'd	Approved
°C	Degrees Celsius
EC	Eurocopter France
ECL	Eurocopter Canada Limited
FILT	Filter
FMS	Flight Manual Supplement
ft.	feet
Hp	Pressure Altitude
ISA	International Standard Atmosphere
LHS	Left Hand Side
MOD	Modification
N1	Engine Gas Generator Speed
PAI	Aircraft Certification Division
P/N	Part Number
RHS	Right Hand Side
RPM	Revolutions Per Minute
STC	Supplemental 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 an operating Ferry Flight Fuel Tank is installed, anti-ice additives must be used at temperatures below -20°C .

c. Placards

There is one placard associated with the Airframe Fuel Filter Installation.

1) Placard:



Location: Located on the RHS of the Rotor RPM Indicator on the Standard Instrument Panel.

Located on the RHS of the Annunciator Panel Instrument Panel on the Alternate Instrument Panel or on the lighting overlay panel. All locations are in view of the pilot. Refer to Figure 2.

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 CONTINUOUSLY ON

- Land as soon as possible
- Monitor N1; if oscillations occur, land immediately.

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

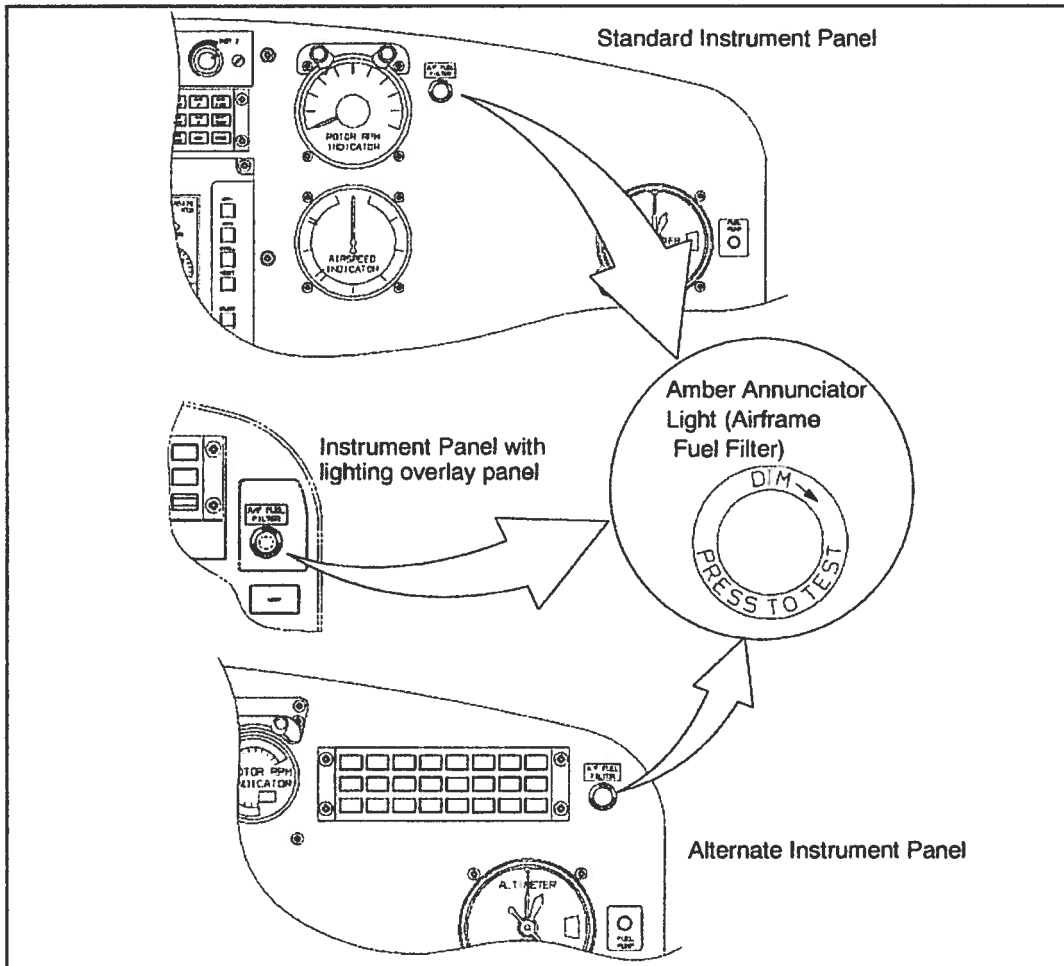


Figure 3 Press to Test / Annunciator Light on the Instrument Panel

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

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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