

Supplement No. MD500-IBF-KIT-FMS



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**FAA APPROVED
ROTORCRAFT FLIGHT MANUAL SUPPLEMENT**

**TO THE
MD HELICOPTERS
MODELS 369H, HM, HS, HE, D, E, F, & FF
ROTORCRAFT FLIGHT MANUALS**

**FOR THE
INLET BARRIER FILTER SYSTEM STC
INSTALLATION**

Aircraft S/N _____

Aircraft Reg. No. _____

This supplement must be attached to applicable FAA Approved Rotorcraft Flight Manual, (CSP-HE/HS-1, CSP-D-1, CSP-E-1, or CSP-FF-1), when the rotorcraft is modified by the installation of the AFS Inlet Barrier Filter (IBF) System in accordance with STC No. SR01394LA.

The information contained herein supplements or supersedes the basic manual only in those areas listed herein. For limitations, procedures, and performance information not contained in this supplement, consult the basic Rotorcraft Flight Manual.


FAA Approved

for Joseph Criss

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LOG OF REVISIONS

Rev. No.	Revision Description	Pages Effected	FAA Approved:	Date:
IR	Original issue	All	Jim Richmond	17 Sep 2002
A	Added H series aircraft to applicability	All	Jim Richmond	18 Jul 2003
B	Added preflight inspection to normal procedures. Incorporated company logo with name change	All	Patrick Power	12 Apr 2005
C	Revised Section IV – Normal Procedures and formatting	All		09 SEP 2008

NOTE

Revised text from previous revision is indicated by a black vertical line in the right border.

TABLE OF CONTENTS

TABLE OF CONTENTS	3
GENERAL	4
LIMITATIONS	5
EMERGENCY PROCEDURES	6
NORMAL PROCEDURES	7
PERFORMANCE DATA	8
WEIGHT AND BALANCE DATA.....	9
HANDLING, SERVICING, AND MAINTENANCE.....	10
ADDITIONAL OPERATIONS AND PERFORMANCE DATA.....	11
OPTIONAL EQUIPMENT	12

SECTION I

GENERAL

Installation of the Inlet Barrier Filter (IBF) STC requires that the engine bleed air or scavenge air used by the Engine Air Particle Separator be capped and the SCAV AIR toggle breaker switch be removed.

SECTION II
LIMITATIONS

No Change.

SECTION III

EMERGENCY PROCEDURES

Paragraph 3-15 Other Malfunctions – Engine Air Particle Separator Filter Clogged (If installed)

All existing rotorcraft flight manual emergency/malfunction procedures and charts for operation of the aircraft with the Engine Air Particle Separator installed, apply when the Inlet Barrier Filter (IBF) System STC is installed as specified in Sections V and VIII of this RFMS. Modification of the rotorcraft from the particle separator configuration to the IBF configuration is therefore an invisible transition to the pilot/operator since there is no change in rotorcraft operation or emergency procedures.

SECTION IV

NORMAL PROCEDURES

Pre-Flight Inspection

Remove IBF environmental cover (if installed).

Pre-flight inspection shall be made by the pilot to inspect the filters (forward and upper) for damage, excessive accumulation of debris (straw, leaves, insects, etc.) or snow/ice, missing or damaged fasteners, or the need for servicing or repair of the filters. After extended operation in precipitation (i.e., rain, or a combination of rain and sleet/snow), the sand and dust collected on the external side of the filter media (dirty side) may coagulate in the corners of the filter media pleats. If visual inspection indicates existence of any of the above conditions, the decision whether to service the filter assemblies will reside with the flight crew. Damaged or missing fasteners should be replaced to maintain maximum seal integrity.

CAUTION

Operation with missing quarter turn filter retaining fasteners may result in damage to the engine. Missing quarter turn fasteners should be replaced.

NOTE

Operation with damaged filters can severely degrade IBF system separation efficiency and result in possible performance loss, wear, and/or damage to the engine. Damaged filter elements should be either repaired or replaced.

SECTION V

PERFORMANCE DATA

Paragraph 5-1 General

All hover performance charts and power check charts, when the Inlet Barrier Filter (IBF) System STC is installed, should be used as indicated for the following conditions:

- Particle Separator installed
- Scavenge Air OFF
- Without Mist Eliminator

SECTION VI

WEIGHT AND BALANCE DATA

Paragraph 6-1 Weight and Balance Characteristics

Document weight and balance of the Inlet Barrier Filter (IBF) System in accordance with paragraph 6-3 of the IBF Kit Installation Procedures, MD500-IBF-KIT-IP when installing this STC. Additional information can be found in the IBF Kit Installation Procedures, MD500-IBF-KIT-IP.

SECTION VII

HANDLING, SERVICING, AND MAINTENANCE

Paragraphs 7-1	Helicopter Components	
7-7	Servicing – General	
7-11	Cleaning – General	(Models 369D, E, F, FF)
7-12	Cleaning – General	(Models 369H, HM, HS, HE)
7-16	Preservation and Storage	(Models 369D, E, F, FF)
7-17	Flyable Storage – No Time Limit	(Models 369D, E, F, FF)
7-18	Preservation and Storage	(Models 369H, HM, HS, HE)
7-19	Flyable Storage – No Time Limit	(Models 369H, HM, HS, HE)

All handling, servicing and maintenance of the Inlet Barrier Filter (IBF) System assemblies should be performed in accordance with the IBF Operations & Maintenance Manual/Illustrated Parts List (OMM/IPL), MD500-IBF-KIT-OMM/IPL. The OMM section defines IBF operational requirements, service limits/procedures, environmental requirements, repair procedures, and required materials. The IPL section provides a complete list of the IBF components/assemblies and associated illustrations.

SECTION VIII

ADDITIONAL OPERATIONS AND PERFORMANCE DATA

Paragraphs 8-1 Hover Ceiling – Out of Ground Effect (OGE)

All hover performance charts, when the Inlet Barrier Filter (IBF) System is installed, should be used as indicated for the following conditions:

- Particle Separator installed
- Scavenge Air OFF
- Without Mist Eliminator

SECTION IX
OPTIONAL EQUIPMENT

No change.