

DOCUMENT AF200-009
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS
AF200-2 UNIVERSAL MOUNT
FOR
EUROCOPTER AS350 / AS355 SERIES HELICOPTERS
STC NO: SR01058LA



AIRFILM CAMERA SYSTEMS
6245 AERODROME WAY, HANGAR NO. 2
GEORGETOWN, CA

RECORD OF REVISIONS

When updated, this document is revised in its entirety.

REV	DATE	DESCRIPTION	APPROVED BY
B	06/05/2013	Updated W&B	SPH

TABLE OF CONTENTS

SECTION	TITLE	PAGE
	RECORD OF REVISIONS	1
	TABLE OF CONTENTS	2
1.0	GENERAL	3
1.1	INTRODUCTION	3
1.2	PURPOSE	4
1.3	SCOPE	5
1.4	APPLICABILITY	5
1.5	DOCUMENT CHANGE CONTROL.....	5
2.0	AIRWORTHINESS LIMITATIONS	6
3.0	INSPECTION REQUIREMENTS	7
3.1	SCHEDULED INSPECTIONS	8
3.1.1	100 HOUR INSPECTION INTERVALS.....	8
TABLE 3.1.1	100 HOUR TIME IN SERVICE INSPECTIONS ON HELICOPTER	9
3.2	1000 HOUR TIME IN SERVICE INSPECTION INTERVAL.....	9
TABLE 3.2.1	FITTING INSPECTIONS.....	9
TABLE 3.2.2	FORK END / HARDWARE INSPECTIONS	9
TABLE 3.2.3	TUBE INSPECTIONS	9
3.3	INSPECTION LIMITS	10
4.0	REMOVAL, DISASSEMBLY, REASSEMBLY AND INSTALLATION	10
5.0	WEIGHT AND BALANCE	10

1.0 GENERAL

1.1 INTRODUCTION

This manual presents the Instructions for Continued Airworthiness (ICA) for the installation of the Airfilm Camera Systems model AF200-2 Universal Mount. This mount is to be installed on the Eurocopter AS350 / AS355 SERIES with Supplemental Type Certificate (STC) SR01058LA. The AF200-2 Universal Mount consists of aluminum structure tubes with aluminum machined fittings. The mount is designed to facilitate the attachment of equipment such as video cameras or searchlights. The cover page of this document shows the typical mount installation with a searchlight on the Eurocopter AS350 / AS355 helicopter.

The AF200-2 Mount attaches to the aircraft using the following:

- Side Aircraft Hard Points (350A21-1422-20), located on the side of aircraft:
- Aircraft Hard Points (350A41-0172-04) located on forward cross tube.
- Aircraft Absorber Vibration, RH & LH (350-A21-1383-24)
- Forward / Aft aircraft cross tubes

1.2 PURPOSE

The purpose of this document is to provide Instructions for Continued Airworthiness to inspect the Airfilm Camera Systems Model AF200-2 Universal Mount. Unless otherwise noted, this document is for reference purposes only.

1.3 SCOPE

The scope of this document is limited to information, procedures, requirements and limitations for this Supplemental Type Certificate. When a requirement specified in the appendix to the regulations is not applicable to this Supplemental Type Certificate the requirement will not be included in the Instructions for Continued Airworthiness.

1.4 APPLICABILITY

These Instructions for Continued Airworthiness are applicable to the Airfilm Camera Systems AF200-2 Universal Mount installed on the Eurocopter AS350 AND AS355 series helicopter.

1.5 DOCUMENT CHANGE CONTROL

Changes to this document will be distributed to registered owners of the AF200-2 Universal Mount within 10 days after the revision is approved. Changes to this document will be indicated by a revision number in the footer, vertical lines adjacent to the change, and in the Record of Revisions.

2.0 AIRWORTHINESS LIMITATIONS

SEE FAA APPROVED RFM FOR COMPLETE LIMITATIONS

3.0 INSPECTION REQUIREMENTS



3.1 SCHEDULED INSPECTIONS

The scheduled inspections required by this ICA are contained on the following checklists. This checklist, when completed, is to become a permanent part of the AF200-2 Universal Mount records.

NOTE: There are no field repairs or overhaul allowed for the AF200-2 Universal mount.

If the mount fails the following inspections, the mount is to be removed from the helicopter and returned to Airfilm Camera Systems.

3.1.1 100 HOUR INSPECTION INTERVALS

The 100 hour time in service inspections consist of visually inspecting the critical area of the AF200-2 Universal Mount installation.

Due to the simplicity of the mount structure, all scheduled 100 hour inspections consist of the same items since the mount is inspected while installed on the helicopter.

The inspections per Table 3.1.1 are required while the AF200-2 Universal Mount is installed on the helicopter at the time in service interval as specified. The inspection is to be performed by maintenance personnel.

3.1.1 100 HOUR INSPECTION INTERVALS

TABLE 3.1.1 100 HOUR TIME IN SERVICE INSPECTIONS ON HELICOPTER

Inspect. Interval Hours	Inspection	Maintenance Personnel Initial
100	Visually inspect welds for cracks	
	Visually inspect aluminum brackets for cracks, nicks or deep scratches	
	Visually inspect tubes for dents, deep scratches, or cracks.	
	Visually inspect hardware for cracks, dents, deep scratches or damage	

3.2 1000 HOUR TIME IN SERVICE INSPECTION INTERVAL

The 1000 hour time in service inspection is to be performed every 1000 hours time in service. The mount must be removed from the helicopter and disassembled per Section 4.0.

TABLE 3.2.1 FITTING INSPECTIONS

Inspect. Interval Hours	Inspection	Maintenance Personnel Initial
1000	Visually inspect bolt holes for damage	
	Visually inspect brackets for cracks, nicks or deep scratches	

TABLE 3.2.2 FORK END / HARDWARE INSPECTIONS

Inspect. Interval Hours	Inspection	Maintenance Personnel Initial
1000	Visually inspect bolt holes for damage	
	Visually inspect threads for signs of damage	
	Visually inspect body for cracks, nicks, and scratches	

TABLE 3.2.3 TUBE INSPECTIONS

Inspect. Interval Hours	Inspection	Maintenance Personnel Initial
1000	Visually inspect welds for cracks	
	Visually inspect bolt holes for signs of cracks, elongation or damage.	
	Visually inspect tubes for dents, deep scratches, or cracks.	
	Visually inspect threads for signs of damage	

3.3 INSPECTION LIMITS

The AF200-2 Universal Mount is to be removed from service and returned to Airfilm Camera Systems if the following inspection limits are exceeded.

Cracks:	Any indication
Bolt hole elongation	Any Indication
Dents, scratches or nicks	Greater than 0.010 inches
Tube Dents:	Greater than 0.020 inches
Tube scratches:	Greater than 0.010 inches

4.0 REMOVAL, DISASSEMBLY, REASSEMBLY AND INSTALLATION

For latest update refer to the Airfilm Camera Systems Installation Instructions AF200-007

5.0 WEIGHT AND BALANCE

The weight and balance location for the AF200-2 Universal Mount is:

AF200-2 WEIGHT AND STATIONS			
FOR CAMERA / SENSOR SYSTEMS			
AS350 & AS355 ALL SERIES			
	WEIGHT	LONGITUDINAL	LATERAL
ITEM DESCRIPTION	LBS	ARM INCHES	ARM INCHES
NOSE LOCATION - USE CAMERA WEIGHT			
NOSE BRACKET (PN A900) - W/O T BRACKET	119.1	-15.8	0.0
FORWARD MOUNT BRACKET (SELECT ONE OF THE FOLLOWING)			
QUICK CLAMP (PN A956 -1R / 1L SINGLE HOLE)	7.0	40.4	0.0
QUICK CLAMP NEW VERSION (PN A956 -1R / 1L NEW THREE HOLE)	11.7	40.4	0.0
STANDARD T-BRACKET (PN A952 1 R / 1L)	4.4	40.4	0.0
COUNTER WEIGHT BRACKET (A964)	58.4	234.0	16.5
COUNTER WEIGHT BOX EMPTY (PN A125)			
COUNTER WEIGHTS INSTALLED (150 MAX)		260.0	20.0
RH SIDE MOUNT (PN A969)	35.0	135.2	42.0
LH SIDE MOUNT (PN A969)	35.0	135.2	-42.0
R/H SIDE MOUNTED CAMERA OR COUNTERWEIGHT (USE ACTUAL WEIGHT)		138.7	55.5
L/H SIDE MOUNTED CAMERA OR COUNTERWEIGHT (USE ACTUAL WEIGHT)		138.7	-55.5
TAIL CONE W/ WEIGHT MAX (SEE EUROCOPTER 53.06 SB)	44.0	398.7	0.0
<p>Note: MULTIPLE FLYING CONFIGURATIONS APPROVED: Nose mount , counterweight, side mounts can be installed and flown with or without installed camera / and or counterweights.</p> <p>Example: Nose and side mount installed and camera is located on nose so counterweight box would be located on aft section to achieve correct weight and balance.</p> <p>USE ACTUAL WEIGHT OF INSTALLED EQUIPEMNT</p> <p>Use proper weight and balance for multiple configurations installed.</p>			