

**DOCUMENT AF-G3-008**  
**MAINTENANCE INSTRUCTIONS**  
**AIRFILM CAMERA SYSTEMS**  
**G3-1 LANDING LIGHT INSTALLATION**

**FOR**  
**BELL TEXTRON MODELS 206A, B & L SERIES**  
**AND 407 HELICOPTERS**

**STC No. SR01654LA**



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

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MAINTENANCE INSTRUCTIONS**

**DOCUMENT No. AF-G3-008**

**Dated: April 14, 2004**

**RECORD OF REVISIONS**

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**1.0 GENERAL**

**1.1 INTRODUCTION**

This manual presents the maintenance instructions for the installation of the Airfilm Camera Systems model G3-1 Landing Light Installation. This mount is to be installed on the Bell Helicopter Model 206 A, B, and L helicopters. The G3-1 Landing Light Installation consists of a aluminum machined fittings. .

The G3- mount attaches to the aircraft at the forward landing gear cross tube. The lamps are Whelen model 90195 housing which contain a G.E. PAR35 model 4587 250 watt lamp.

**1.2 PURPOSE**

The purpose of this document is to provide Maintenance Instructions to inspect the Airfilm Camera Systems Model G3-1 Landing Light Installation.

**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 Maintenance Instructions.

**1.4 APPLICABILITY**

These Maintenance Instructions are applicable to the Airfilm Camera Systems G3-1 Landing Light Installation on the Bell - Textron Models 206A, B, & L Series and Model 407 Helicopter

**1.5 DOCUMENT CHANGE CONTROL**

Changes to this document will be distributed to registered owners of the G3-1 Landing Light Installation 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**

NONE

**3.0 INSPECTION REQUIREMENTS**



**G3-1 Landing Light Installation**

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**3.1 SCHEDULED INSPECTIONS**

The scheduled inspections required by these maintenance instructions are contained on the following checklists. This checklist, when completed, is to become a permanent part of the G3-1 Landing Light Installation.

**NOTE: There are no field repairs or overhaul allowed for the G3-1 Landing Light Installation**

If any component fails the following inspections, the mount or the counterweight installation 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 G3-1 Landing Light Installation.

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

The inspections per Table 3.1.1 are required while the G3-1 Landing Light Installation is installed on the helicopter at the time in service interval as specified. The inspection is to be performed by maintenance personnel.

**TABLE 3.1.1 100 HOUR TIME IN SERVICE INSPECTIONS ON HELICOPTER**

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

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**TABLE 3.2.2 TUBE INSPECTIONS**

Inspect. Interval Hours	Inspection	Maintenance Personnel Initial
1000	Visually inspect tubes 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**

G3-1 Landing Light Installation 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

**3.4 BULB REPLACEMENT**

Replace burned out bulbs with G.E. PAR35 Model 4587 250 watt lamp.

**3.5 SPECIAL INSPECTIONS**

Lightning Strike: Inspect for signs of lightning exit. Remove if indications are evident.

Hard Landing: Inspect for evidence of ground contact or damage. Remove if indications exist.

**4.0 REMOVAL, DISASSEMBLY, REASSEMBLY AND INSTALLATION**

For latest update refer to the Airfilm Camera systems Installation Instructions AF-G3-006

**5.0 WEIGHT AND BALANCE**

The weight and balance location for the G3-1 Landing Light Installation is:

**G3-1 Landing Light Installation, both lights Weight = 4.7 lbs @ Fuselage Station 72.2**