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PR-206/407SD-120M

Revision 4

Instructions for Continued Airworthiness

DZUS Snow Deflector Installations

On

Bell Model 206L-1/L-3/L-4 & 407 Series Helicopters

REVISION HISTORY

Revision	Issue Date	Date Inserted	Detail of Changes	By
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Revision Control Procedure

Revisions to this document are mailed to owner of record and/or provided on the Paravion Technology Inc. website at www.paravion.com. Before inserting a change, ensure this manual is correct. Check the existing List of Effective Pages in this manual to ensure that all prior revisions are inserted. **Do not insert this revision if prior revisions are not inserted.**

LIST OF EFFECTIVE PAGES

PAGE NO.	REVISION	DATE
i	5	11/05/13
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2	5	11/05/13
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These Instructions for Continued Airworthiness (ICA) except for the Airworthiness Limitations Section have been reviewed and found to comply with the applicable requirements of the Federal Aviation Regulations Part 27.

FAA Acceptance _____ Date _____

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AIRWORTHINESS LIMITATIONS

The Airworthiness Limitations Section is FAA approved and specifies inspections and other maintenance required under 14 CFR 43.16 and 14 CFR 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

No airworthiness limitation associated with this type design change.

This system has no life-limited components.

REVISION	DATE	APPROVED
0	04/30/99	Ronald F. May
1	02/01/01	David T. Grossman
2	04/05/01	Melissa Sandow
3	01/03/06	David Grossman
4	01/16/14	Satish Lall

1 SYSTEM DESCRIPTION

1.1 DZUS SNOW DEFLECTOR INSTALLATION GENERAL

The DZUS Snow Deflector Installation consists of a DZUS fastener kit, which is used to attach the snow deflector assemblies to the cowling over the turbine intake openings. The reverse flow of air prior to entering the engine inlet limits the ingestion and buildup of snow into the engine. The DZUS kit allows for ease of installation and removal of the snow deflector assemblies as opposed to the standard fastener installation.

1.2 DZUS SNOW DEFLECTOR INSTALLATION COMPONENTS

1. The DZUS studs attached with grommets to the snow deflector assemblies.
2. The DZUS receptacles which are permanently installed on the aircraft cowling using rivets.
3. Aluminum or stainless steel doublers (with riveted DZUS receptacles) that are permanently installed to the interior of the cowling.

2 INSPECTION AND MAINTENANCE

The objective of this inspection and maintenance procedure is to ensure that component installations are secure, free of structural defects and that the system is airworthy. See Troubleshooting Procedures table for most likely problems which may be encountered, as it outlines the appropriate corrective actions.

2.1 SAFETY PRECAUTIONS

Wear eye protection when servicing, if needed.

2.2 RECOMMENDED INSPECTION & TROUBLESHOOTING PROCEDURES

The following checklist describes the most likely problem sources which may be encountered:

Table 1 - Troubleshooting Procedures

INDICATION	PROBABLE CAUSE	POSSIBLE SOLUTION
A. DZUS Stud not latching properly	<ol style="list-style-type: none">1. Stud too short2. Stud discrepancy3. Receptacle discrepancy	<ol style="list-style-type: none">1. Use longer stud2. Replace stud3. Replace receptacle

3 COMPONENT REMOVAL AND REPLACEMENT

Refer to the appropriate BHT-206L -(X)-MM or BHT-407-MM per aircraft model as applicable and Paravion Technology Inc. Installation Instructions PR-407SD-900M and PR-206SD-900M, as applicable.

3.1 SNOW DEFLECTOR REMOVAL

1. Disengage all DZUS fastener studs by turning them 90 degrees counter clockwise.
2. Remove the Snow Deflectors.

3.2 SNOW DEFLECTOR INSTALLATION

1. Install snow deflector and engage all DZUS fastener studs by turning studs 90 degrees clockwise.
2. Verify deflector is secure

3.3 DZUS COMPONENT REMOVAL AND REPLACEMENT

1. Replace worn, deformed or broken DZUS studs as follows:
 - a. Using a pair of diagonal cutters, remove the retaining grommet from the affected stud.
 - b. Remove and replace stud and retaining grommet with new parts per the Installation Drawing 206SD-200 or 407SD-200.
2. Replace worn or broken doubler assemblies and individual receptacles as follows:
 - a. Remove cowling from aircraft per BHT-206L-(X)-MM or BHT-407-MM, Maintenance Manual, as applicable.

CAUTION: To prevent contamination of the inlet filter during this procedure, cover inlet filter. Ensure all rivet tails and debris are recovered from cowling.

- b. Remove doubler assembly or receptacle from cowling, per BHT-ALL-SRM.
- c. Install new replacement doubler assembly or receptacle per drawing 206SD-200 or 407SD-200 and Installation Instructions PR-206SD-900M or PR-407SD-900M, as applicable.
- d. Re-install cowling per BHT-206L-(X)-MM or BHT-407-MM, as applicable.

4 WEIGHT AND BALANCE DATA

Table 2 - Weight and Balance Data

WEIGHT AND BALANCE DATA; DZUS KIT INSTALLATION*					
ITEM	WEIGHT (lb.)	LONGITUDINAL		LATERAL	
		F.S. (in.)	MOMENT (in.-lb.)	B.L. (in.)	MOMENT (in.-lb.)
DZUS Kit Installation Bell 206L-1, L-3, L-4	0.8	130.0	104	16.0	12.8
DZUS Kit Installation Bell 407	0.8	130.0	104	16.0	12.8

*Ref. snow deflector manufacturer's instructions or flight manual supplement for deflector removal/installation weight & balance change.

5 SYSTEM SERVICING

Inspection procedures outlined in Table 3 should be followed every 300 hours or 12 months to verify installation airworthiness.

Table 3 – Inspection Checklist, Every 300 Hours or 12 Months

INSPECTION	COMMENTS	INITIALS
<p><u>Snow Deflector Assembly</u> Refer to the snow deflector manufacturer’s instructions for continued airworthiness.</p>		
<p><u>DZUS Studs</u> Visually inspect for security, cracks, any permanent deformation, and smooth operation. Replace if necessary. Check security of the full grommets.</p>		
<p><u>DZUS Receptacles</u> Visually inspect the integrity of the receptacle wire, the receptacle body and the security of the rivets. Replace if necessary.</p>		
<p><u>Doubler</u> Visually inspect fastener security. Visually inspect for wear, looseness or worn receptacles especially in the vicinity of holes. Visually inspect rivets attaching doubler to the cowling. Replace assembly if necessary.</p>		
<p>Report structural discrepancies to Paravion Technology, Inc. Replacement parts are available.</p>		

6 REFERENCES

14 CFR Part 27

Paravion Technology Inc. documents:

PR-206SD-900M Installation Instructions for Bell Model 206L-1, L-3, L-4

PR-407SD-900M Installation Instructions for Bell Model 407

206SD-200-(X) DZUS Snow Deflector Installation Drawing, Bell 206L-1, L-3, L-4.

407SD-200-(X) DZUS Snow Deflector Installation Drawing, Bell 407

Bell Helicopter Textron (BHT) documents:

BHT-206L-(X)-MM, Maintenance Manual

BHT-407-MM, Maintenance Manual

BHT-ALL-SPM, Standard Practices Manual

BHT-ALL-SRM, Structural Repair Manual