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**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS**  
**DZUS SNOW DEFLECTOR INSTALLATION**

BELL 206L-1/L-3/L-4 AND 407 MODELS

Cover  
PR-206/407SD-120M  
Rev. 3, 12/12/05

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**RECORD OF REVISIONS**

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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 Appendix A to the Federal Aviation Regulations Part 27.

FAA Acceptance Manuel Perez Date 03/27/01.

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**AIRWORTHINESS LIMITATIONS**

The Airworthiness Limitations Section is FAA approved and specifies inspections and other maintenance required under §§ 43.16 and 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.**

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## 1.0 SYSTEM DESCRIPTION

- 1.1 The Snow Deflector Installation consists of two Snow Deflector Assemblies placed on the helicopter cowling, over the turbine intake openings. The reverse flow of air prior to entering the engine inlet limits the ingestion of snow into the engine. The Snow Deflector Assemblies are attached to the cowling with DZUS fasteners for easy installation and removal.
- 1.2 Snow Deflector Components
  - 1.2.1 The Snow Deflector Assembly with DZUS studs already attached.
  - 1.2.2 The DZUS floating receptacles which are permanently installed on the aircraft cowling using rivets.
  - 1.2.3 An aluminum Doubler riveted to the inside surface of the cowling with DZUS floating receptacles already attached.

## 2.0 INSPECTION AND MAINTENANCE

- 2.1 The objective of Snow Deflector Installation, inspection and maintenance is to assure that component installations are secure, free of structural defects and that the system is airworthy.
- 2.2 Inspection procedures outlined in Appendix A should be followed during annual/300 hour inspections to verify installation airworthiness.

## 3.0 COMPONENT REMOVAL AND REPLACEMENT

**NOTE:** Adjust aircraft weight and balance when components are removed or installed.

- 3.1 Snow Deflector Removal
  - 3.1.1 Disengage all DZUS fastener studs, by turning them 90 degrees counter clock-wise.
  - 3.1.2 Remove the Snow Deflectors.
- 3.2 Snow Deflector Installation
  - 3.2.1 Install Snow Deflector and engage all DZUS fastener studs, turning them 90 degrees clock-wise.

**TABLE I**

| <b>WEIGHT AND BALANCE DATA; SNOW DEFLECTOR INSTALLATION</b> |                |               |                     |               |                     |
|-------------------------------------------------------------|----------------|---------------|---------------------|---------------|---------------------|
| ITEM                                                        | WEIGHT<br>(lb) | LONGITUDINAL  |                     | LATERAL       |                     |
|                                                             |                | F.S.<br>(in.) | MOMENT<br>(in.-lb.) | B.L.<br>(in.) | MOMENT<br>(in.-lb.) |
| DEFLECTOR INST'N (Bell 206) *                               | 3.6**          | 130.0         | 468                 | -0-           | -0-                 |
| DEFLECTOR INST'N (Bell 407)                                 | 4.2**          | 130.0         | 546                 | -0-           | -0-                 |

\* Bell 206L-1, 206L-3, and 206L-4 models.

\*\* The weight includes the combined weight of the Right Hand and Left Hand installations.

## FIGURES



| ITEM NO | PN            | DESCRIPTION                    | QTY | TYP |
|---------|---------------|--------------------------------|-----|-----|
| 1       | D4-AW35T27    | DZUS STUD (alt. AW35T27)       | 2   | EA  |
| 2       | GH3.5         | HALF GROMMET                   | 9   | EA  |
| 3       | D4-AW35T30    | DZUS STUD (alt. AS35T24)       | 7   | EA  |
| 4       | NAS9302B-5-02 | RIVET (alt MS20426AD5-08)      | 20  | EA  |
| 5       | D4-R35        | RECEPTACLE (Alt: R35, Class B) | 7   | EA  |
| 6       | 206SD-2100-1  | DOUBLER ASSEMBLY               | 1   | EA  |

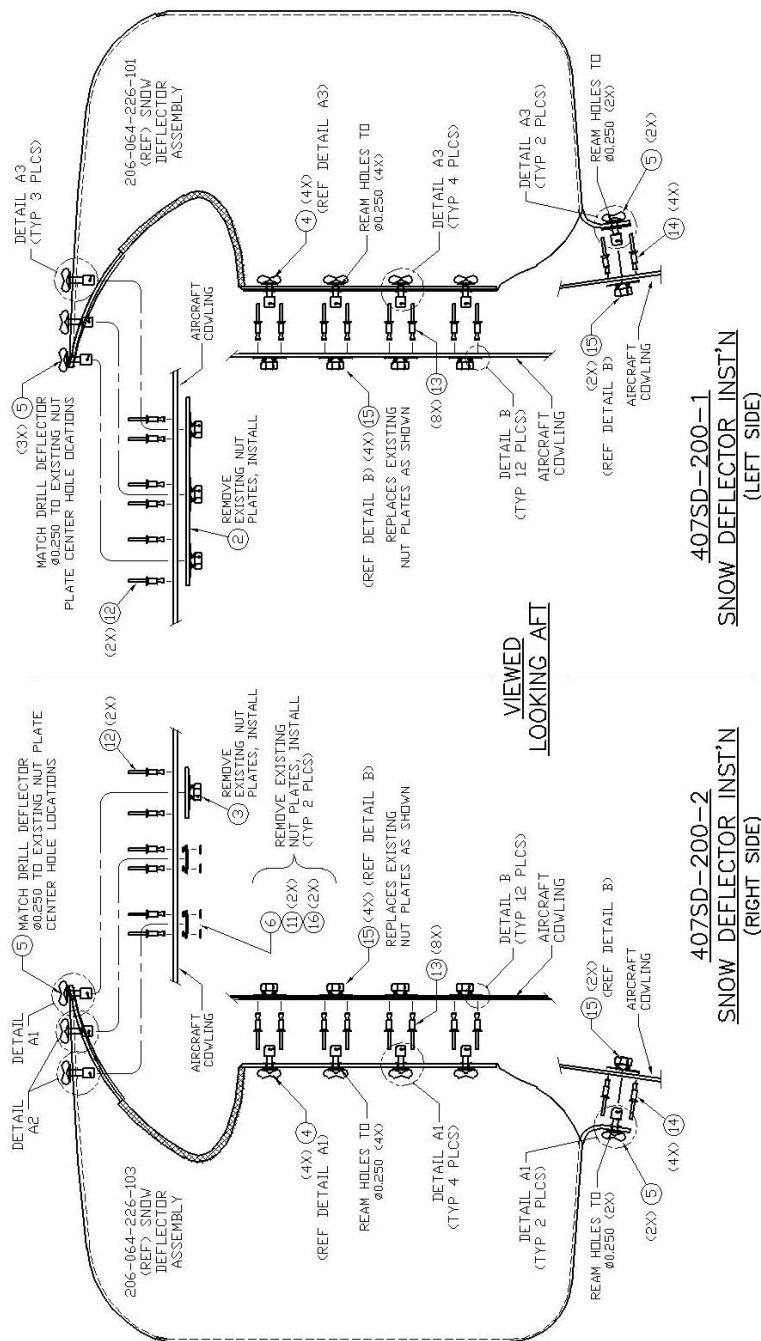


Figure 2, Sheet 1: 407 DZUS Snow Deflector Installation

| ITEM NO | PN            | DESCRIPTION                       | QUANTITY |          |     |
|---------|---------------|-----------------------------------|----------|----------|-----|
|         |               |                                   | -1 Instn | -2 Instn | TYP |
| 2       | 407SD-2500-1  | DOUBLER ASSEMBLY                  | 1        | -        | EA. |
| 3       | 407SD-2500-3  | DOUBLER ASSEMBLY                  | -        | 1        | EA. |
| 4       | D4-AW35T30    | DZUS STUD (alt. P/N AW35t30)      | 5        | 5        | EA. |
| 5       | D4-AW35T33    | DZUS STUD (alt. P/N AW35T33)      | 7        | 5        | EA. |
| 6       | ES34160-1     | RECEPTACLE, DZUS FASTENER         | -        | 2        | EA. |
| 11      | NAS1149FN232P | WASHER                            | -        | 4        | EA. |
| 12      | NAS9302B-4-3  | RIVET                             | 7        | 2        | EA. |
| 13      | NAS9302B-5-02 | RIVET(alt. P/N CR3212PR-5-02)     | 10       | 10       | EA. |
| 14      | NAS9302B-5-03 | RIVET(alt. P/N CR3212PR-5-03)     | 4        | 4        | EA. |
| 15      | D4-R35        | RECEPTACLE (alt P/N RT35, Class B | 6        | 6        | EA. |
| 16      | NAS1398C3-3   | RIVET (alt. P/N CR2663-3-03)      | -        | 4        | EA. |

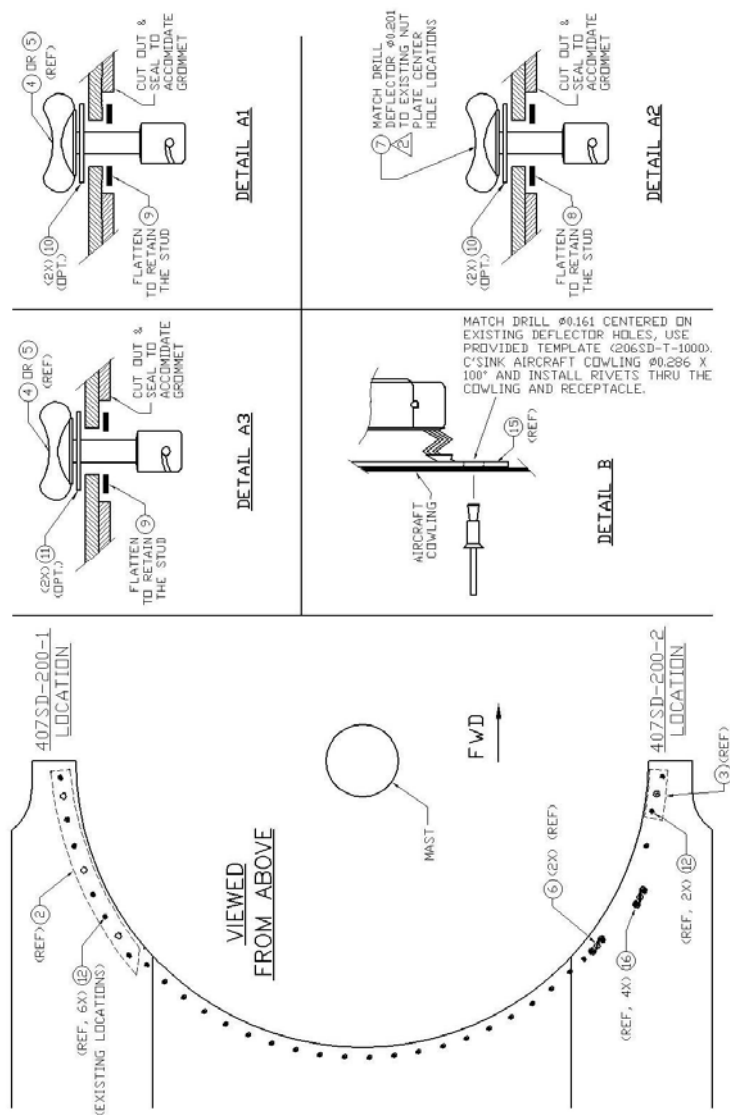


Figure 2, Sheet 2: 407 DZUS Snow Deflector Installation

| ITEM NO | PN            | DESCRIPTION  | - QTY | TYP |
|---------|---------------|--------------|-------|-----|
| 7       | ES34170-1     | DZUS STUD    | 2     | EA. |
| 8       | GH3           | HALF-GROMMET | 2     | EA. |
| 9       | GH3.5         | HALF GROMMET | 8     | EA. |
| 10      | NAS1149FO432P | WASHER       | 18    | EA. |

## APPENDIX A

### ANNUAL/300HR INSPECTION CHECKLIST

#### Annual/300 Hour Inspection Checklist

| INSPECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | COMMENTS | INITIALS |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|
| <b><u>Snow Deflector Assembly</u></b><br>The snow deflectors are made of fiberglass. Inspect the deflectors for cracks, holes, separation of plies in the plane of lamination, blisters, and any permanent deformation of the deflector surface. Replace the assembly if any of the above-mentioned defects are present. No repair and/or patching of the deflector to correct the above-mentioned defects, is permissible.. Pay special attention to the area in the vicinity of dzus stud and rivet holes. |          |          |
| <b><u>Dzus Studs</u></b><br>Check for security, cracks, any permanent deformation, and smooth operation. Replace if necessary. Check security of the full grommets.                                                                                                                                                                                                                                                                                                                                          |          |          |
| <b><u>Dzus Receptacles</u></b><br>Check the integrity of the receptacle wire, the receptacle body and the security of the rivets. Replace if necessary.                                                                                                                                                                                                                                                                                                                                                      |          |          |
| <b><u>Doubler</u></b><br>Check fastener security. Inspect for cracks, especially in the vicinity of holes. Replace if necessary.                                                                                                                                                                                                                                                                                                                                                                             |          |          |
| Report structural discrepancies to Paravion Technology, Inc. Replacement parts are available.                                                                                                                                                                                                                                                                                                                                                                                                                |          |          |