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REPORT NO. PR-407SD-100M

SERVICE INSTRUCTIONS

FOR

407SD SNOW DEFLECTOR SYSTEM INSTALLATION

BELL MODEL 407 HELICOPTER

REVISIONS

<u>REV.</u>	<u>DATE</u>	<u>DESCRIPTION</u>	<u>BY</u>
N/C	07/30/97	Original	REB
A	02/15/01	Corrected Weight and Balance Data. Updated Format.	

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1.0 **INTRODUCTION**

This manual presents a kit list and installation procedures for the installation of the Paravion® Snow Deflectors for the Bell Model 407 helicopter.

Prior to beginning the actual installation, it is suggested that an inventory of the kit be accomplished using the included kit list.

Also, the installation procedures presented in Figure 2, should be thoroughly reviewed.

The Paravion® Snow Deflectors have been FAA approved and are geometrically identical to the original Bell Snow Deflectors. The applicable drawings are:

Bell Snow Deflector	Approved Paravion® Replacement Snow Deflector
206-064-226-101 Left Hand 206-064-226-103 Right Hand	407SD-100-1 Left Hand 407SD-100-2 Right Hand

Flight Manual Supplement BHT-407-FMS-4 for the 206-706-208 Snow Deflector Installation is to be used when the Paravion® Snow Deflectors are installed.

2.0 **INSTALLATION PROCEDURES**

2.1 **General Information**

- 2.1.1 Items removed for access to work areas shall be tagged for identification and protected from damage until reinstalled. Save all attaching hardware unless otherwise noted.
- 2.1.2 When installing this kit, exercise care to prevent damage to adjacent structure and equipment.

2.2 **Helicopter Preparation**

Prepare the helicopter as follows (BHT-407-MM):

- 2.2.1 Ground aircraft.
- 2.2.2 Disconnect battery.

2.3 **Installation of Snow Deflector Kit**

- 2.3.1 Remove existing screws from deflector mounting points in cowling (Figure 1).

- 2.3.1 Position deflector (6) on cowling and align existing holes in deflector with holes in cowling.
- 2.3.2 Temporarily install deflector. Locate and mark holes in upper tab observing minimum 0.47-inch edge distance.

NOTE: If lower edge of deflector interferes with opening of access door, mark to trim for door clearance.

- 2.3.3 Remove deflector assembly. Drill (3X, 0.205 in. dia.) and deburr holes in upper tab. Trim as marked to clear access door.
- 2.3.4 Repeat installation preparation steps for opposite deflector assembly.
- 2.3.5 Paint deflectors to match exterior of helicopter.
- 2.3.6 Install deflectors and lock-wire (4) screws (2) in lower tabs.

2.4 Restoration

- 2.4.1 Clean and vacuum all debris from work areas.
- 2.4.2 Connect battery.

2.5 Maintenance Guidelines

- 2.5.1 Inspect Snow Deflector assemblies for cracks or delamination. Remove and replace if above conditions exist.

TABLE I
407SD-100-1 Kit List

ITEM	P/N	FIG & INDEX NO.	NO. RQ'D
Deflector Assembly	407SD-100-1	1-6	1
Screw (Reference)	AN525-10R10	1-1	7
Screw (Reference)	NAS1801-3D-10	1-2	2
Washer (Reference)	NAS1149D0363J	1-3	9
Lockwire (Reference)	MS20995C32	1-4	A/R

TABLE II
407SD-100M-2 Kit List

ITEM	P/N	FIG & INDEX NO.	NO. RQ'D
Deflector Assembly	407SD-100-2	---	1
Screw (Reference)	AN525-10R10	---	7
Screw (Reference)	NAS1801-3D-10	---	2
Washer (Reference)	NAS1149D0363J	---	9
Lockwire (Reference)	MS20995C32	---	A/R

TABLE III
Weight and Balance Data

INSTALLATION	WEIGHT (LB.)	FUSELAGE STA (IN.)	MOMENT (LB.-IN.)
407SD-100-1 + 407SD-100-2	4.2	130	546

Snow Deflector installation has the following effect on aircraft weight and balance. Adjust ballast as necessary to maintain helicopter empty weight cg within allowable limits.

- NOTE:** (1) Installation of Snow Deflector set (left- and right-side assemblies) has no effect on lateral center-of-gravity.
- (2) Weight and balance information reference optional equipment is maintained in BHT-407-MM, Chapter 8, Assure that the above data is noted in the Optional Equipment Weight and Balance Information table.

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APPENDIX A

INSTALLATION DRAWINGS