PARAVION TECHNOLOGY, INC. 2001 AIRWAY AVENUE FT. COLLINS, COLORADO 80524

REPORT NO. PR-407SP-900M

SNOW PAD INSTALLATION INSTRUCTIONS

FOR

BELL MODEL 407 HELICOPTER

Page i PR-407SP-900M Rev. B, 01/22/01

REVISIONS

REV. N/C	<u>DATE</u> 12/02/97	<u>DESCRIPTION</u> Original	BY REB
A	01/22/98	Clarified Snow Pad replacement procedure.	REB
В	01/22/01	Change mounting angle on Snow Pad.	

REFERENCES

- 1.
- Drawing 407SP-100M Rotorcraft Flight Manual Supplement PR-407-100M BHT-407-MM-2 2.
- 3.

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1.0 <u>INTRODUCTION</u>

The 407SP-100 installation includes 1 each left-side and right-side Snow Pad Assemblies. Two bolt/bushing assemblies are installed, with doublers, to each skid tube, in front of and behind the aft cross tube. The snow pads are installed over the top of each skid tube, and installed to the bushings in the skid. The Arm Assembly, on the forward end of the Snow Pad, is locked into place with the provided Quick Release Pin.

2.0 <u>INSTALLATION INSTRUCTIONS</u>

- 2.1 Reference Drawing 407SP-100, locate the 1.9" dimension aft of the saddle. Mark circumference of tube at this location.
- 2.2 Place the Snow Pad over the Skid Tube. Support the pad in position, to place the centers of the bracket slots over Skid tube center.

NOTE: Assure minimum 0.250 inch clearance between the inboard screw of the skid tube saddle fitting and the Snow Pad.

2.3 With Swivel Bracket engaged, mark holes locations for the through bolts shown in View A-A.

NOTE: The bushings which install over the through-skid bolts can be used as a guide, with a transfer punch, to accurately mark bolt hole locations,

- 2.4 Drill the indicated holes through the center of the skid tube at the marked locations.
- 2.5 Temporarily install the doublers and bushings using the specified hardware, and match-drill the indicated rivet holes in the skid tube from the doublers. Remove the doublers, deburr the skid tubes. Permanently install the doublers and rivets wet with Proseal 890 or equivalent.

NOTE: Use of a pneumatic riveter, CHERRY P/N GH-702 or equivalent, is recommended to assure proper rivet installation. Install the bolts, bushings, washers, and nuts. Torque to 90 inch-pounds.

2.6 Install the Snow Pads and lock in place using the attached arm assemblies.

NOTE: Lock-Arm assembly height should be adjusted to assure that the forward bushings fully engage the bracket. This is accomplished by transferring washers from under the swivel brackets to under the nuts on the bottom of the pad, or visa-versa. Adjust swivel brackets on each side of the arm assembly equally.

2.7 Repeat the above installation steps for the right-side Snow Pad.

2.8 Reference BHT-407-MM-2, verify that empty weight center-of-gravity is within aft limit when Snow Pads are installed and within forward and lateral limits when Snow Pad's are removed. Ballast the aircraft as necessary to meet these requirements.

3.0 SNOW PAD INSTALLATION

- 3.1 Place the Snow Pad assembly over the skid tube and around the aft cross-tube as shown, and slide the brackets over the bushings in the skid.
- 3.2 Position the Arm Assembly over the skid tube, and lock in place using the Quick Release Pin.
- 3.3 Update the aircraft Weight and Balance data, and equipment list.

Installed Weight = 34.4 pounds

F.S. = 160 inches

Moment = 5504 pound-inches

3.4 Document installation in the aircraft logbook in accordance with FAR Part 43.

4.0 SNOW PAD REMOVAL

- 4.1 Release Arm Assembly by removing Quick Release Pin. Rotate the arm away from the skid tube.
- 4.2 Slide the Snow Pad assembly aft and remove from the skid.
- 4.3 Update aircraft Weight and Balance data, and equipment list.
- 4.5 Document Snow Pad removal in the aircraft logbook in accordance with FAR Part 43.