

**PARAVION TECHNOLOGY, INC.
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**PR-407SB-900M
INSTALLATION INSTRUCTIONS**

**ROTARY LATCH SEAT BELT
FOR BELL MODEL 407, 206 SERIES HELICOPTER**

REVISIONS

<u>REV.</u>	<u>DATE</u>	<u>DESCRIPTION</u>	<u>BY</u>
N/C	09/26/07	Original	R.E.B.
A	02/22/08	ADDED 206 INSTALLATIONS	R.E.B.
B	02/06/09	ADDED APPENDIX A	R.E.B.

TABLE OF CONTENTS

<u>ITEM</u>	<u>PAGE</u>
Revisions	i
Table of Contents	ii
References	ii
1.0 Introduction	1
2.0 Installation	2
APPENDIX A, BUCKLE REMOVAL	APPENDIX

REFERENCES

1. The following drawings define installation of the 407SB-100 kit. This kit has been designed for installation in BELL Model 407 and in BELL Model 206 helicopters.

- 407SB-100, System Configuration
- 407SB-200, Seat Belt Assembly Installation
- BHT-ALL-SPM
- Applicable BELL Aircraft Maintenance Manual

1.0 INTRODUCTION

Model 407 Installations:

The 407SB-100-1 installation (Left crew seat, Bell 407) is installed in accordance with drawing 407SB-200, -1 configuration, incorporating Paravion Technology, Inc. P/N ES09200-1 Rotary Latch Seat Belt assembly. This restraint system incorporates lap and shoulder harness belt halves each attached permanently to the rotary latch buckle assembly, on the inboard side of the seat. Matching shoulder harness/lap belt halves are permanently attached to the rotary latch hasp, on the outboard side of the seat. "Buckling up" is completed simply by snapping the hasp into the buckle, rather than simultaneous attachment of four belts. In addition, the outboard lap belt cannot fall on the cabin floor or out of the door.

The 407SB-100-2/407SB-200-2 installation is a mirror image of the -1, and is installed to provide the same advantages for the Right crew seat.

206 Series Installations:

407SB-100-3, -4, -5, and -6 (applicable to Bell 206 series aircraft) installations are similar to the above installations for model 407 helicopters, using restraint system configurations with inertia reel designs to fit the helicopter model. Odd dash number installations indicate Left Crew seat installation. Even dash number installations indicate Right Crew seat installation.

2.0 INSTALLATION INSTRUCTIONS

2.1 COMPONENTS INSTALLATION

Reference the aircraft Maintenance Manual, remove the Shoulder Harness Inertia Reel and Lap Belt installation which will be replaced.

Inspect the attaching hardware. Use new hardware to install the Paravion Technology, Inc. seat belt assembly if the existing hardware is worn; **Refer to the aircraft Maintenance Manual and Illustrated Parts Breakdown.**

Reference BHT maintenance procedures, replace the OEM shoulder harness Inertia reel on the support assembly and reinstall the support to the seat assembly structure.

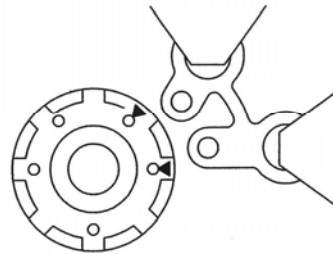
NOTE: Weight difference, between OEM seat belt installation and the Paravion Technology, Inc. seat belt installation is negligible. Center-of-Gravity location is unchanged. Modification of aircraft Weight and Balance data should not be necessary if seat belt installation only is performed.

2.2 DOCUMENTATION

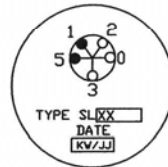
Record installation of the Paravion Technology, Inc. Seat Belt kit in the aircraft records. Revise aircraft Weight and Balance data if needed.

Place the Instructions for Continued Airworthiness, PR-407SB-120M, with the aircraft maintenance documents.

PR-407SB-900M; APPENDIX A



BUCKLE, "TOP" VIEW



BUCKLE, "BOTTOM" VIEW

ES09200, ES09206 BUCKLE REMOVAL

To avoid unnecessary modification of aircraft interior (molding, trim) when installing seat belts, the buckle can be separated from the harness as follows. This procedure may also be used when removing the harness restraint for cleaning.

Reference the figure above, determine the proper release holes, in the "top" face of the buckle, by reference to the diagram on the "bottom" face. Insert a 2mm diameter (0.08 inch) shaft through the holes in the top face to push each spring-loaded lock pin out of the holes in the latch. Remove the latch from the buckle assembly.

Reverse the removal procedure to re-insert the latch. Assure that the latch installation is secure.

Use soap and warm water to clean the harness restraint.

*Water/Soap solution must not exceed 100 °F (38°C).

*Do not clean the harness with solvents, chemicals or cleaners containing chemicals.

*Do not clean the buckle with solvents, chemicals or cleaners containing chemicals.

*Do not dry the harness in the sun or near a radiator.

*Do not use any grease.

WARNING

IMPROPER CLEANING OR DRYING OF THE HARNESS RESTRAINTS AND BUCKLE CAN WEAKEN THEM, REDUCE THEIR EFFECTIVENESS AND CAN RESULT IN SERIOUS PERSONAL INJURY OR DEATH.