SUBJECT:

Required maintenance for the Aft Bench Seat (P/N 130-700614).

APPLICABILITY :

These Instructions for Continued Airworthiness are applicable to aircraft with the subject modification embodied.

	NAME AND SIGNATURE	DATE	COMPANY DEPARTMENT
PREPARED BY:	D. Kerr	22 Jan/08	ECL ENGINEERING
PREPARED BY:			
CHECKED BY:	C. Timmins	22nd January 2008	ECL ENGINEERING
CHECKED BY:	M. Merritt	2008-01-23	ECL QUALITY ASSURANCE
APP'D / ACCEPTED (Civil A/W Authority)	(As per ICA Compliance Check Sheet)	13 Feb 2008	TCCA
RELEASED BY:	R. Manson	19 Feb 2008	ECL ENGINEERING

RECORD OF REVISIONS

Rev.	Pages at this Revision	Description, Reason Changed Pages	Prepared (name and date)	Checked (name and date)	App'd/Acc'd (Civil A/W Authority) (name and date)	Released (name and date)
0	1 through 9	Original Issue	D. Kerr 18 May 2004	C. Timmins 18 May 2004	TCCA E. Cheung 19 May 2004	R. Manson 19 May 2004
1	1 through 9	Pages 1, 2, 6 and 9. Drain hole inspections clarified.	D. Kerr 31 May 2004	C. Timmins 31 May 2004	TCCA E. Cheung 28 May 2004	R. Manson 1 June 2004
2	1 through 15	Format revised. Revised as per CR-C-1551, and CR-C-1559. (Pages 4, 5, 7 to 15)	D. Kerr 25 Nov., 2004	C. Timmins 25 Nov., 2004	TCCA E. Cheung 26 Nov., 2004	R. Manson 26 Nov., 2004
3	1 through 17	Format revised. Weight and Balance data, torqueing statement, inspection of placards and new load placard incorporated. (Pages 3 - 5, 7 - 9, and 17)	D. Kerr 22 February 2005	C. Timmins 22 February 2005	TCCA E. Cheung 24 March 2005	R. Manson 24 March 2005
4	1 through 18	Format updated. Anchor nuts, fitting, spacers and doublers added for improved strength and maintainability. (Pages 3 to 18)	See page 1.	See page 1.	See page 1.	See page 1.

NOTE: Revisions to this document will be distributed to operators of this equipment by the STC holder.

NOTE: Revised portions of affected pages are identified by a vertical black line in the margin adjacent to the change.

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CONTENTS

FIGURES

TABLES

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1. GENERAL

A. Introduction

The installation of the Aft Bench Seat offers an AS 350-type four-passenger seat installation in place of the basic helicopter aft seats, allowing for a significant weight reduction with respect to standard aft seats.

B. Description

The Aft Bench Seat consists of the following main components:

Fixed Provisions
- Backwall Stiffeners
- Finger Doublers (RH and LH)
- Lower Doubler (RH and LH)
- Upper Doubler (RH and LH)
- Floor Splice
- Bracket
- Shoulder Harness Fitting

Detachable Provisions
- Aft Bench Seat
- Seat Belts
- Seat Assembly
- Seat Belt Retraction Cover

For instructions for initial installation, see IP-ECL-110.

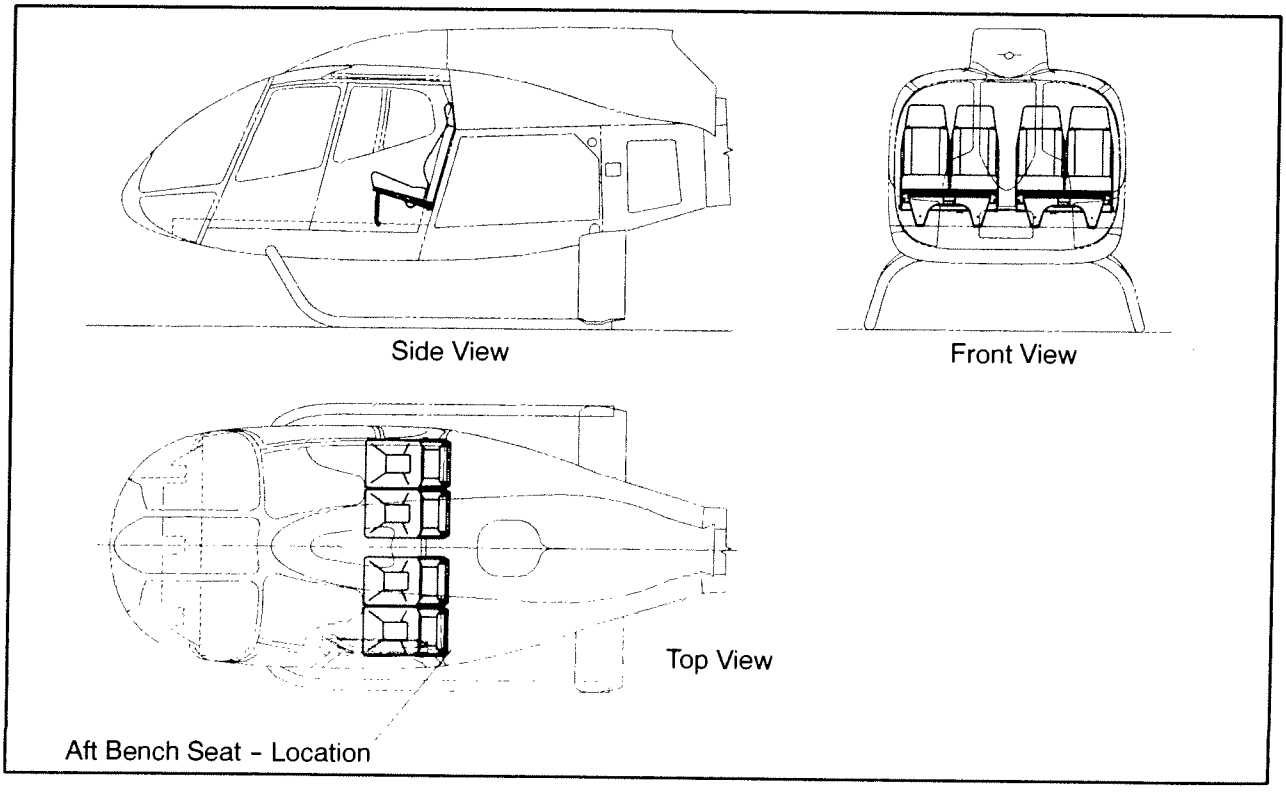

Figure 1 General Layout

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C. REFERENCES

DOCUMENT	DOCUMENT TITLE
AC43.13-1B	Acceptable Methods, Techniques and Practices - Aircraft Inspection and Repair
ICA	Instructions for Continued Airworthiness
IP-ECL-110	Installation Procedure, Aft Bench Seat
MTC	Standard Practices Manual

D. ABBREVIATIONS AND DEFINITIONS

ABBREVIATION	DEFINITION
CORP	Corporation
EC	Eurocopter (France)
ECL	Eurocopter Canada Limited
hrs	hours
MAXI	Maximum
MFR	Manufacturer
P/N	Part Number
Rev	Revision
S/N	Serial Number
SQ	Square
SSPC	Schroth Safety Products Corp.

E. UNITS OF MEASUREMENT

ABBREVIATION / SYMBOL	UNIT OF MEASUREMENT
in	inch
kg	kilogram
kg/m2	kilogram/meter squared
lbs	pounds
m	meter
m kg	meter kilogram

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2. AIRWORTHINESS LIMITATIONS

The Airworthiness Limitations section is approved by the Minister and specifies maintenance required by any applicable airworthiness or operating rule unless an alternative program has been approved by the Minister.

There is a 10 year life limitation from the date of manufacture on each of the Seat Belts in assembly 130-700804, which includes:

- Schroth Sub P/N: BR/7-K600B0B01-01SSP
- Schroth Sub P/N: S/7-K600B0B01-01SSP
- ECL P/N: 130-700804.10

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3. CONTROL AND OPERATION

Control and operation of the aircraft remains unchanged.

4. INSPECTION SCHEDULE AND MAINTENANCE ACTION

NOTE: Use torque per EC, MTC, Volume 2, Chapter 20.02.05.404, unless otherwise specified.

4.1. INSPECTION SCHEDULE

4.1.1. Every 100 flight hrs or 12 months (to coincide with the 100 hrs or 12 months helicopter inspection), whichever occurs first:

ITEM	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
A	- Visually inspect aft bench seat assembly, item 1, attachment points and drain hole locations, in Figure 2, for:	
	a. cracks or deformation	a. Minor repairs may be accomplished in accordance with EC MTC, Volume 3 Chapter 20.03.07.101, or AC 43.13-1B, Chapter 3, Section 3.1 - 3.4. For major repairs, contact ECL or local airworthiness authority.
	b. corrosion	b. No corrosion exceeding 0.01 inches (0.25 mm) is allowed. If corrosion is found within tolerance, repairs may be accomplished with EC, MTC, Vol. 3, Chapter 20.04.03.405 or AC43.13-1B, Chapter 6, Section 7. For corrosion found outside tolerance, contact Eurocopter Canada Limited.
	c. blockage (drain holes, Detail C and Detail D)	c. Clear blockage and clean area.
B	- Visually inspect Strap Assembles, items 7 and 8, in Figure 3, for:	
	a. excessive wear (visible fading, fraying, cuts, etc.)	a. Excessive wear is not permitted. If excessive wear is evident, contact Eurocopter Canada Limited for replacement parts.
C	- Visually inspect all mounting hardware in Figures 2, 3 and 4 for:	
	a. security	a. Re-tighten as required

Table 1 Inspection Schedule and Maintenance Action
Every 100 flight hrs or 12 months, whichever occurs first
(continued on following page)

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4.1. INSPECTION SCHEDULE (continued)

4.1.1. Every 100 flight hrs or 12 months (to coincide with the 100 hrs or 12 months helicopter inspection), whichever occurs first:

ITEM	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
D	- Visually inspect Seat Belt Assembly, item 2, in Figure 4, for:	
	a. excessive wear (visible fading, fraying, cuts, etc.)	a. Excessive wear is not permitted. If excessive wear is evident, contact Eurocopter Canada Limited for replacement parts.
	b. legibility of seat belt identification label	b. If no longer legible, contact Eurocopter Canada Limited.
	c. check label for 10 year life limit requirements	c. Replace belt if 10 year life limit is met.
	d. Check inertia reels for correct operation (proper locking when pulled abruptly)	d. If not operating correctly, contact Eurocopter Canada Limited for corrective action.
E	- Check placards and markings (refer to Section 10, Figure 9) for:	
	a. legibility	a. If placard has become illegible, contact Eurocopter Canada Limited for replacement part.
	b. secure mounting	b. Secure, reattach placards as required.

Table 1 Inspection Schedule and Maintenance Action
Every 100 flight hrs or 12 months, whichever occurs first

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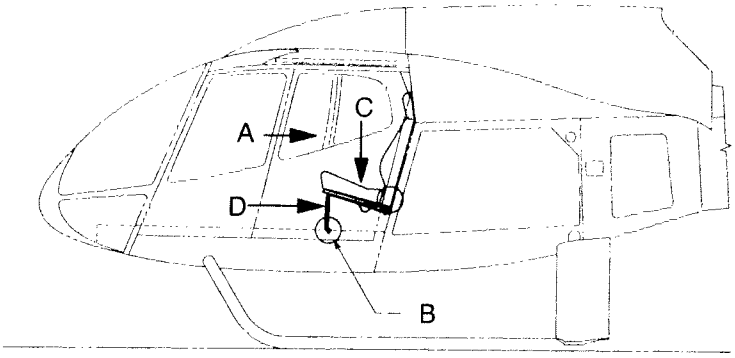
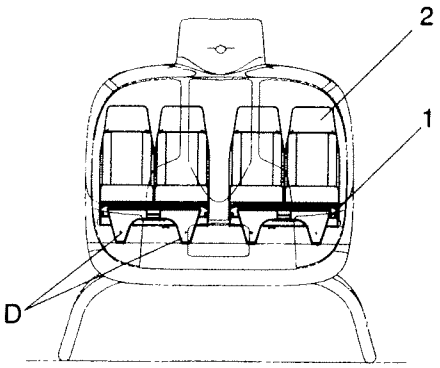
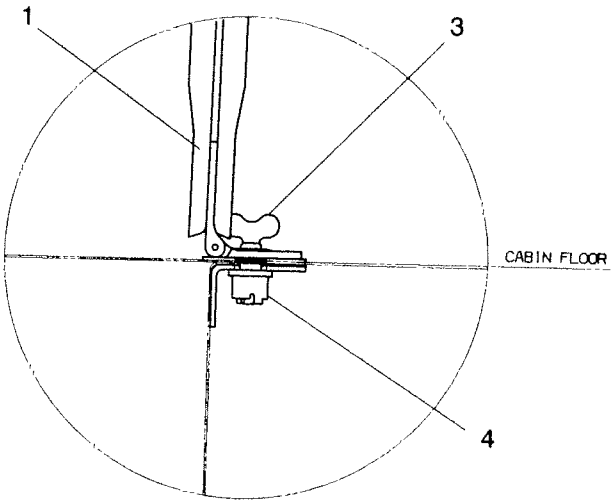
Legend (for Figure 2)

Item	Description
1.	Aft Bench Seat Assembly
2.	Seat Cushions
3.	Camlocs
4.	Receptacles



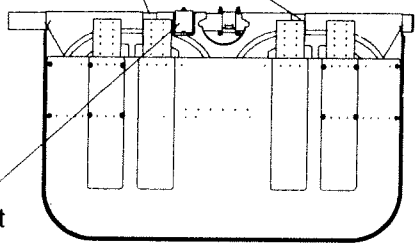


View A



Detail B

Drainage hole locations

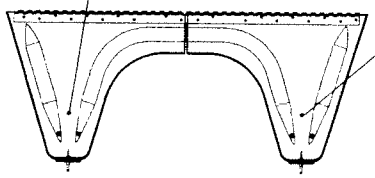


Front of seat

View C
View from top of seat

Drain holes (front and back)

Drain holes (front and back)



View D

Figure 2 Installation Details

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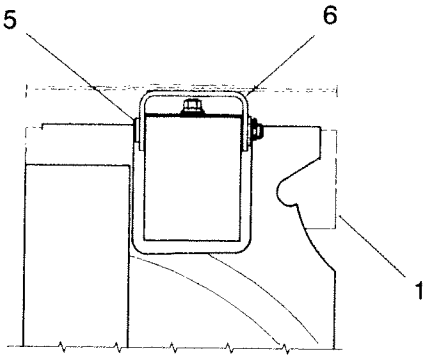
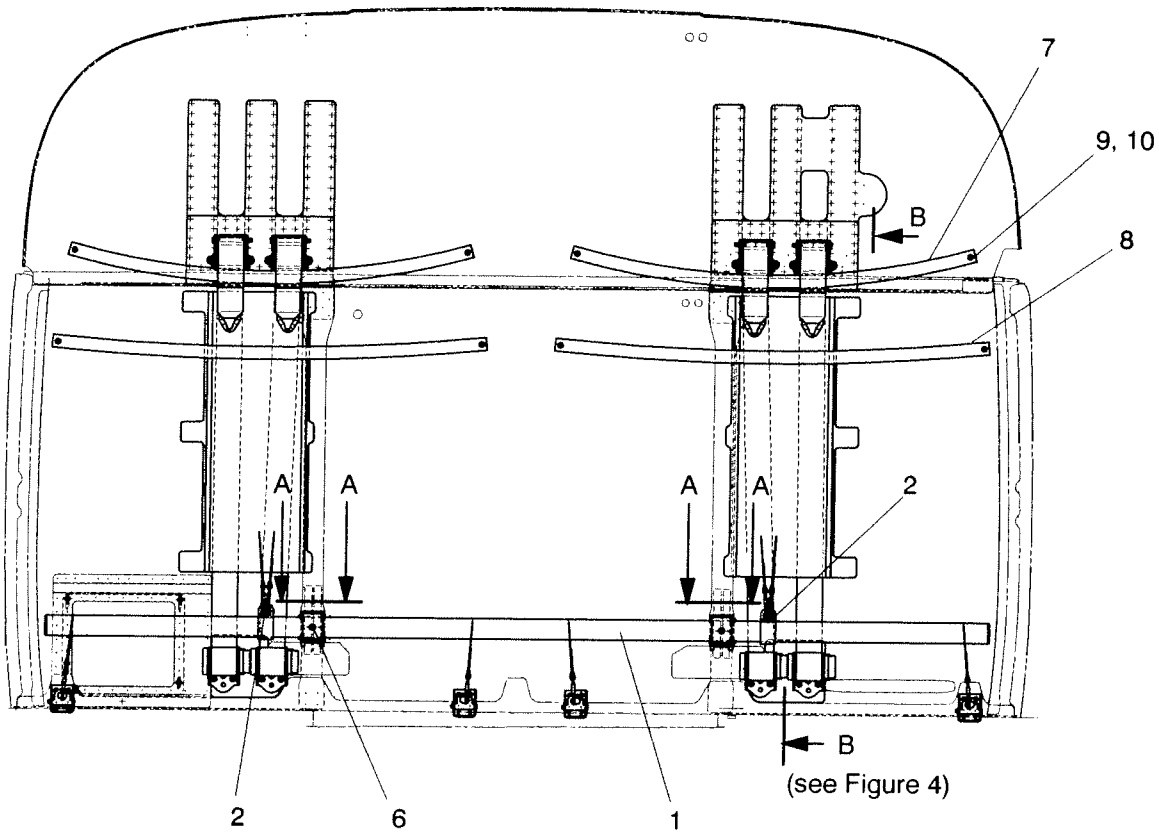
Legend (for Figure 3)

Item	Description
1.	Seat Assembly
2.	Seat Belt Assembly
3.	Pins
4.	Washers
5.	Cotter pins
6.	Fitting
7.	Strap Assembly (Upper)
8.	Strap Assembly (Lower)
9.	Screw
10.	Washer



Section A - A
(2 places)



(Cushions removed for clarity)

Figure 3 Seat Locking Details

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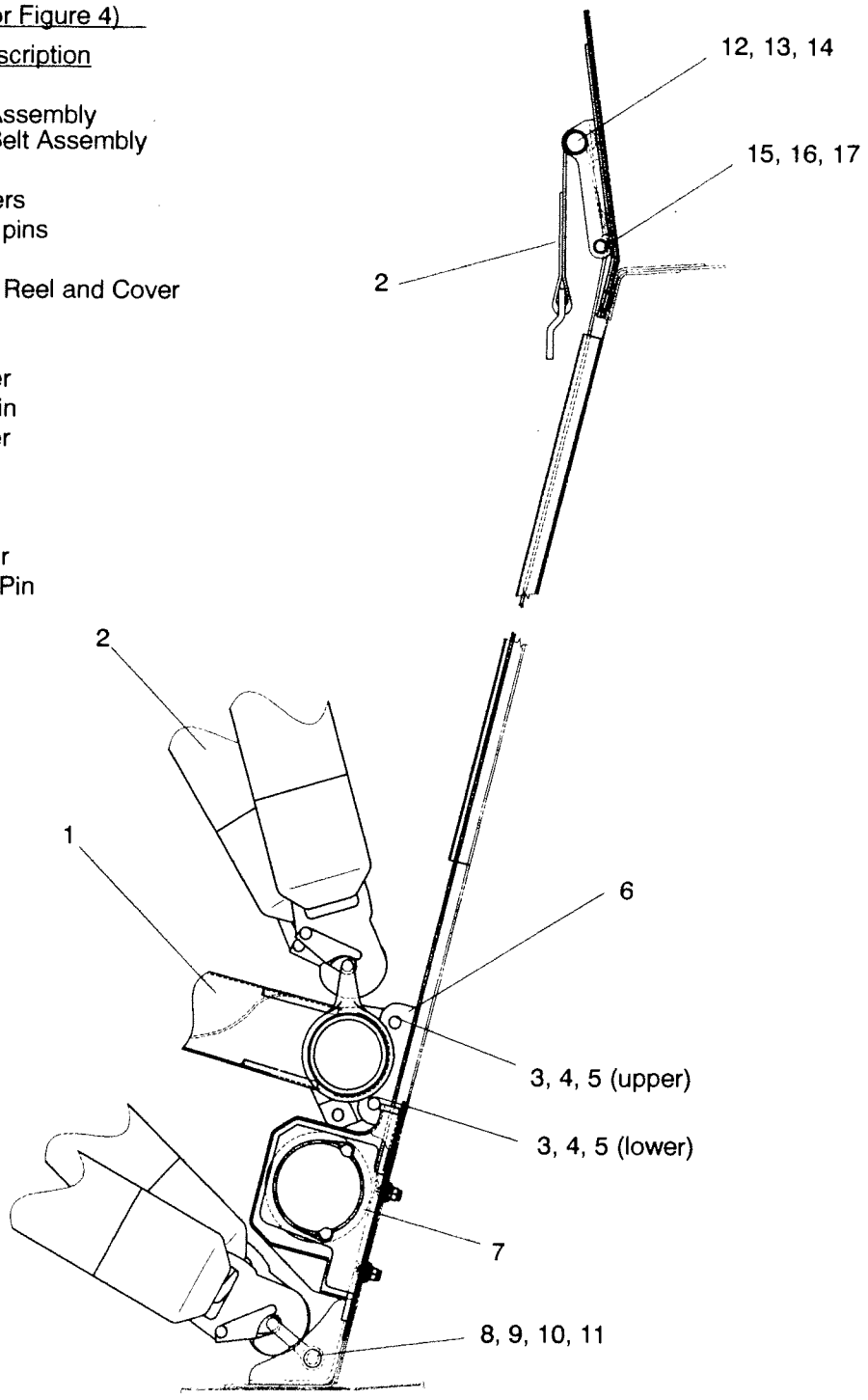
Legend (for Figure 4)

Item Description

1. Seat Assembly
2. Seat Belt Assembly
3. Pins
4. Washers
5. Cotter pins
6. Fitting
7. Inertia Reel and Cover
8. Ring
9. Pin
10. Washer
11. Split Pin
12. Washer
13. Screw
14. Nut
15. Pin
16. Washer
17. Cotter Pin



Section B - B

Figure 4 Seat Belt Assembly Details

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5. REPLACEMENT COMPONENTS AND REPAIR / OVERHAUL INFORMATION

No Replacement Components and Repair / Overhaul Information required for this installation.

6. TROUBLESHOOTING

There are no unique characteristics which require troubleshooting techniques; standard techniques are adequate.

7. SPECIAL TOOLING

No special test equipment or tools are required. Standard tools are adequate.

8. REMOVAL AND REPLACEMENT

Proceed as follows if any of these items need to be removed.

Preliminaries

- disconnect the external power unit and battery

A. REMOVAL

1) AFT BENCH SEAT

a) Remove screw (9, 1 place) and washer (10, 1 place) from one end of lift strap assembly (7 and 8) and remove seat cushions (2) from seat assembly (1). Refer to Figures 2 and 3.

b) Disconnect seat belt assembly (2, 4 places) from seat assembly (1). Refer to Figure 4.

c) Remove camloc (3, 4 places) from receptacle (4, 4 places) in aircraft floor. Refer to Figure 2.

d) Disconnect upper pins (3, 2 places), washers (4, 2 places), cotter pins (5, 2 places) from fittings (6) (2 places). Refer to Figures 3 and 4.

e) Fold legs up under seat and fold seats up against back wall.

f) Disconnect lower pins (3, 2 places), washers (4, 2 places), cotter pins (5, 2 places) from fittings (6, 2 places) and remove seat assembly (1). Refer to Figures 3 and 4.

B. REPLACEMENT

NOTE: Use torque per EC, MTC, Volume 2, Chapter 20.02.05.404, unless otherwise specified.

1) AFT BENCH SEAT

a) Carefully place seat assembly (1) into fittings (6, 2 places) and secure using pins (3, 2 places), washers (4, 2 places), cotter pins (5, 2 places). Refer to Figures 3 and 4.

b) Unfold legs and secure into receptacles (4, 4 places) in cabin floor using camlocs (2, 4 places). Refer to Figure 2.

c) Reconnect seat belt assembly (2, 4 places) onto seat assembly (1). Refer to Figure 3.

d) Reposition seat cushions (1) on seat assembly (1) and secure using velcro. Secure strap assembly (7 and 8) using previously removed screw (9) and washer (10). Refer to Figures 2 and 3.

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9. WEIGHT AND BALANCE DATA

A. Weight and Balance of Components Installed

DESCRIPTION	WEIGHT		ARM		MOMENT	
	kg	lbs	m	in	m.kg	in.lb
Aft Bench Seat Assembly	19.04	42.0	2.54	100.0	48.36	4200.0
Cushion Covers (set of 4)	2.00	4.4	2.65	104.3	5.30	458.9
Belt Assemblies (set of 4)	3.40	7.5	2.70	106.3	9.18	797.3
Belt Cover Assemblies	0.40	0.9	2.83	111.4	1.13	100.3
Back Wall Provisions	4.38	9.7	2.76	108.7	12.09	1054.4
Rear Cushions (set of 4)	7.24	16.0	2.65	104.3	19.19	1668.8
Hardware, miscellaneous	0.90	2.0	2.76	108.7	2.48	217.4
B. Weight and Balance of Components Removed						
Platform Assembly	-15.64	-34.5	2.48	97.9	-38.78	-3379.6
Rear Seats (set of 4)	-48.44	-106.7	2.41	95.1	-116.74	-10149.6

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10. PLACARDS AND MARKINGS

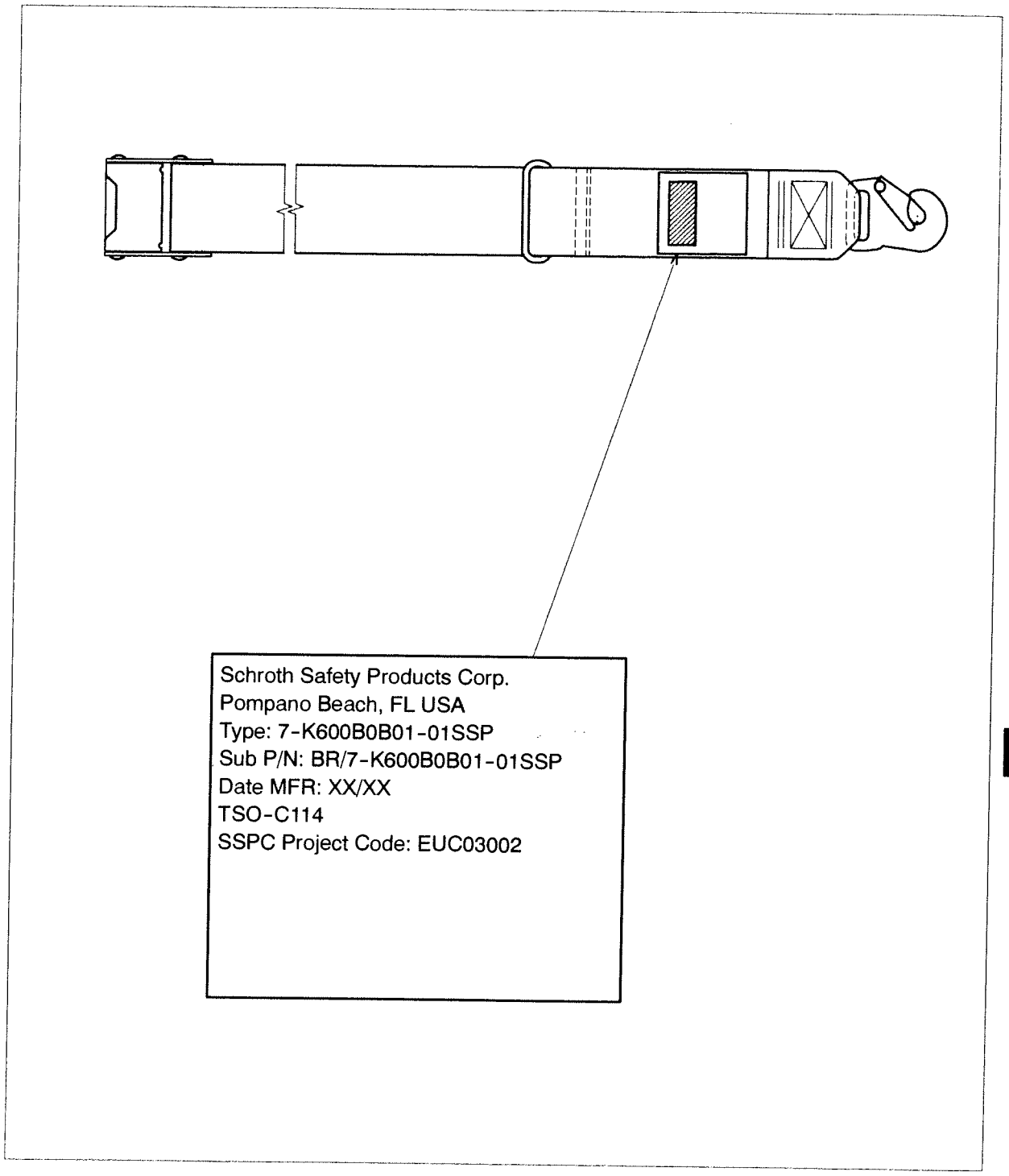

Figure 5 Marking location on seat belt latch section

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10. **PLACARDS AND MARKINGS** (continued)

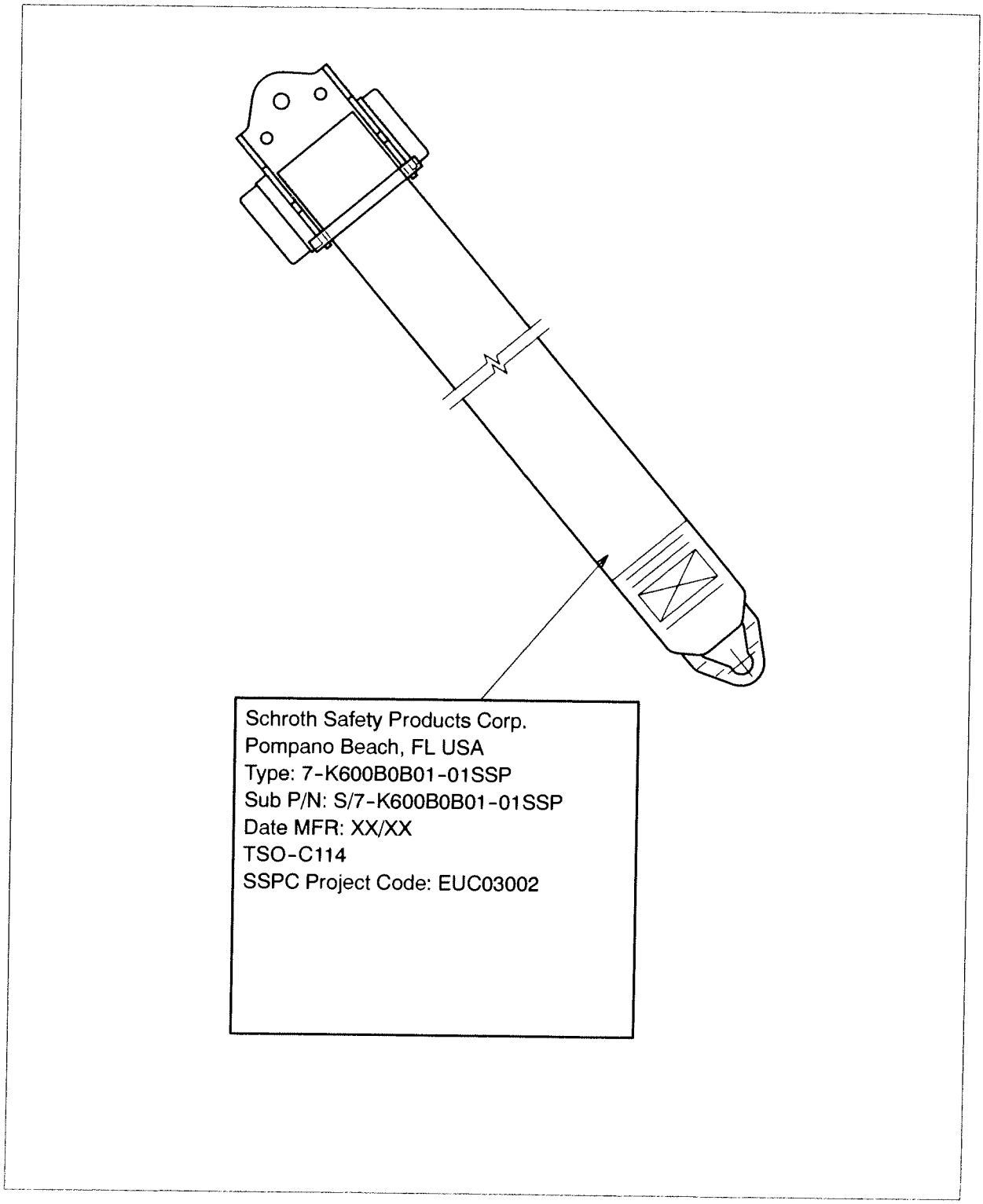

Figure 6 Marking location on seat belt retractor section

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10. **PLACARDS AND MARKINGS** (continued)

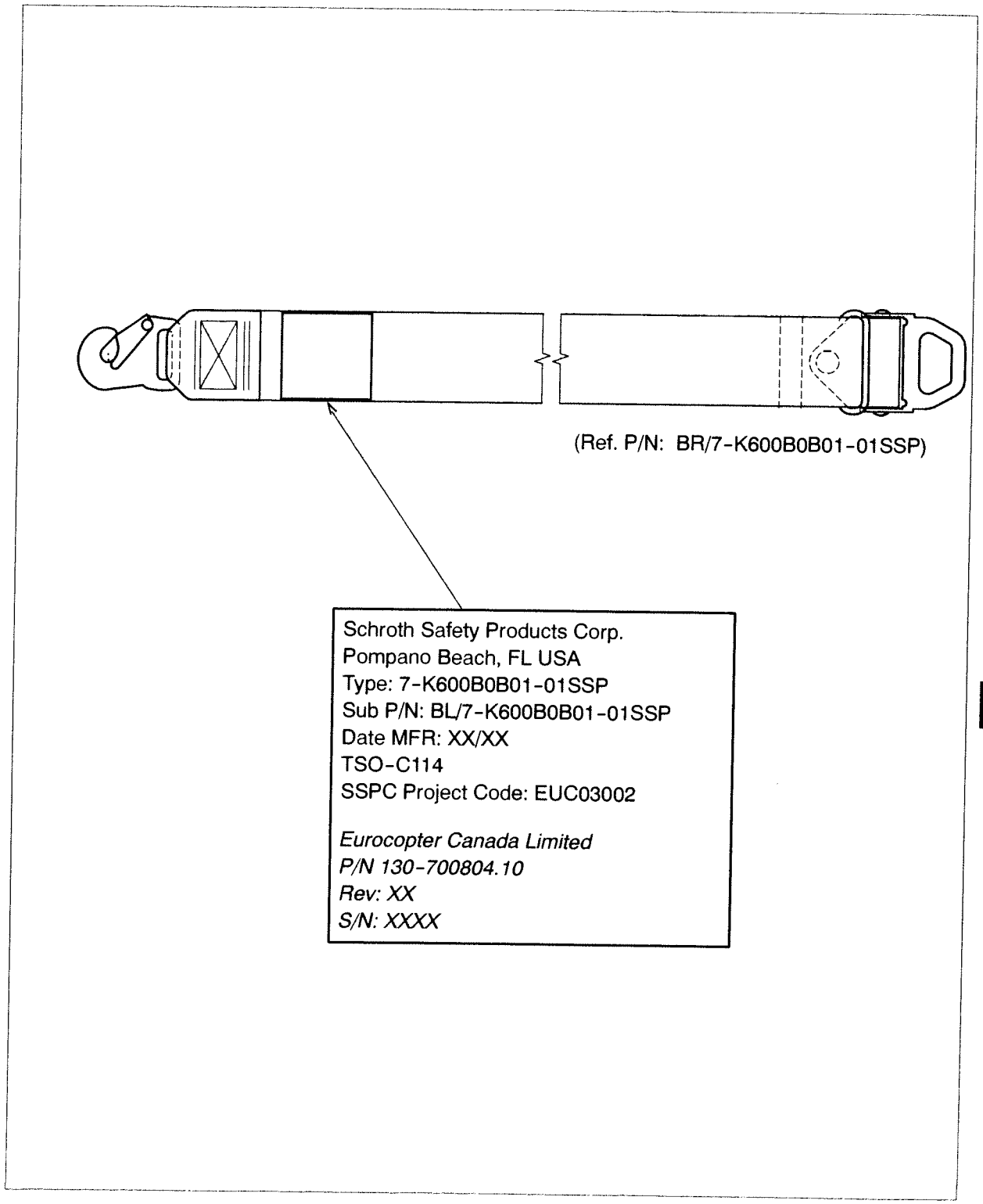

Figure 7 Marking location on seat belt buckle section

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10. **PLACARDS AND MARKINGS** (continued)

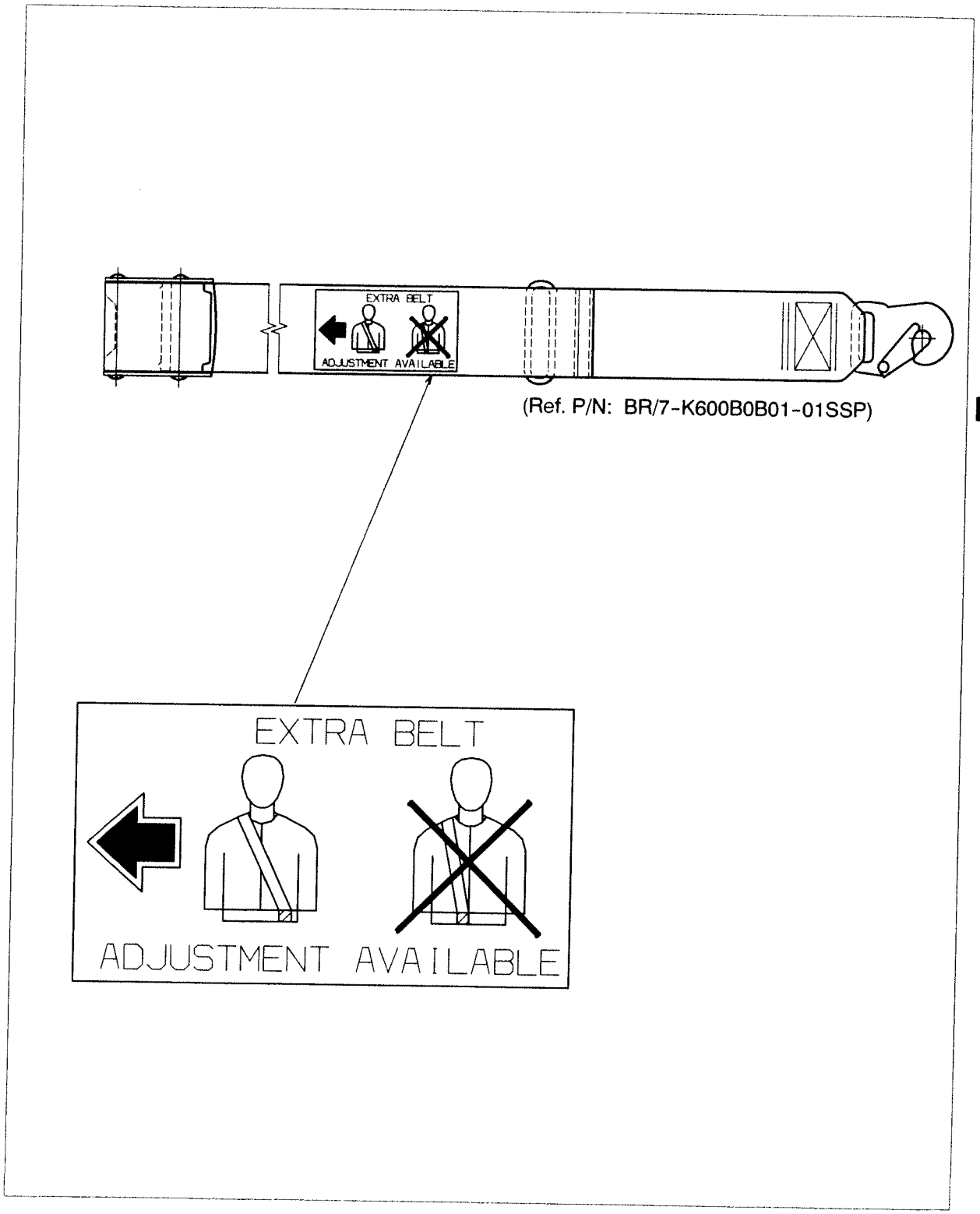

Figure 8 Marking location on seat belt latch section

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10. PLACARDS AND MARKINGS (continued)

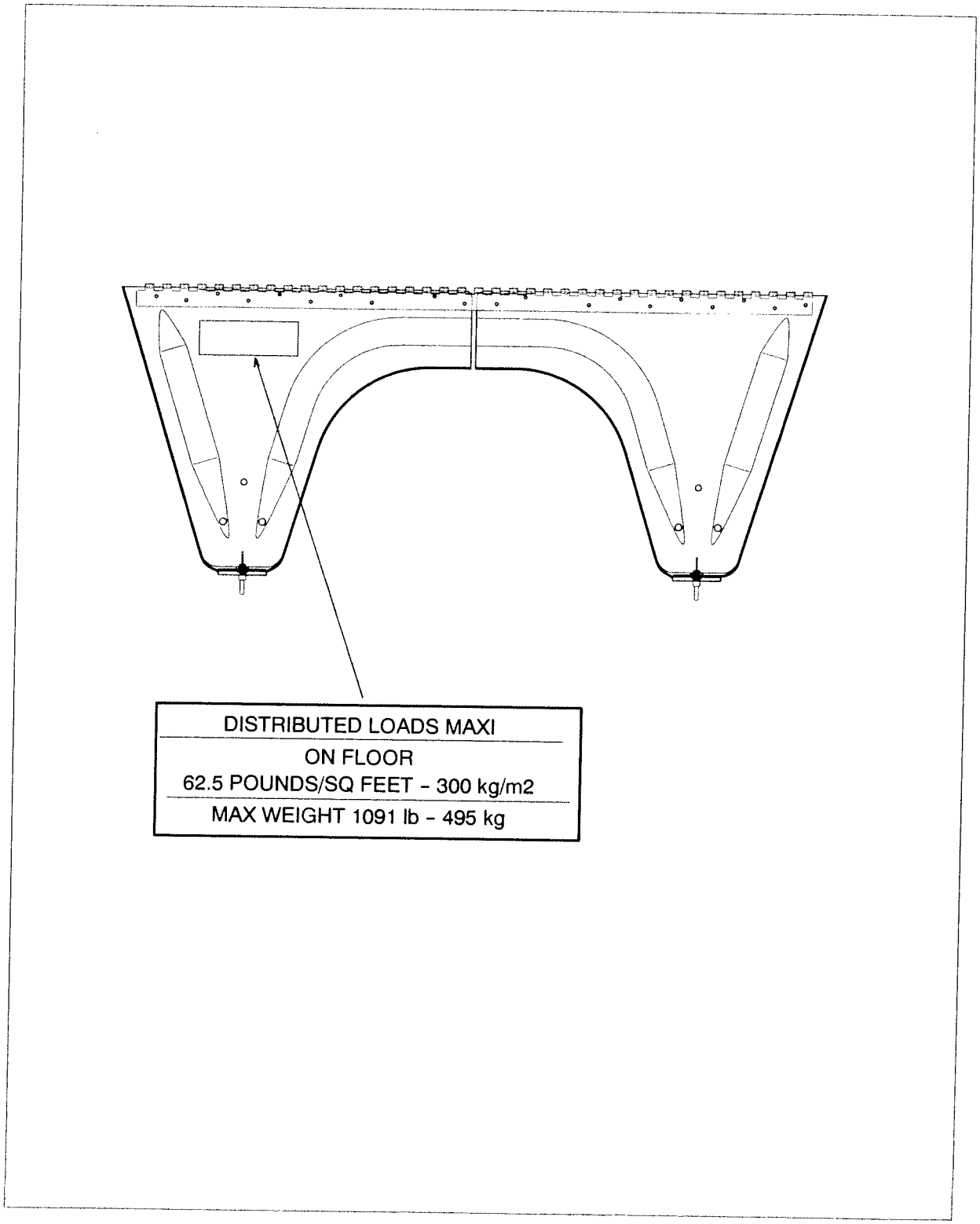

Figure 9 Placard location on front of seat

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