



SUBJECT:

Required maintenance for the Left-Hand Litter Installation (P/N's 350-200034 and 350-200194)

APPLICABILITY :

Aircraft with the subject modification embodied in accordance with TCCA STC. No. SH94-29 or any relevant foreign approvals.

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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 9 June 2004	C. Timmins 9 June 2004	TCCA E. Cheung 24 June 2004	R. Manson 24 June 2004
1	1 through 15	Format revised. More detail added to Sections 1, 3, 4, 6, 7, 8 and Weight and Balance Data incorporated as per FAA comments. (Pages 4, 5, 7 to 15)	D. Kerr 17 May 2005	C. Timmins 18 May 2005	TCCA E. Cheung 18 May 2005	R. Manson 18 May 2005
2	1 through 15	Text deleted from Sections 3 and 4. Corrections to Weight and Balance Data. (Pages 5, 7 and 13)	D. Kerr 8 June 2005	C. Timmins 8 June 2005	TCCA E. Cheung 8 June 2005	R. Manson 8 June 2005
3	1 through 13	Reduced envelope, FWD bracket incorporated for equipment clearance. Format updated, Weight and Balance chart corrected. (Pages 3 to 5, 7 to 13)	D. Kerr 10 April 2006	C. Timmins 10 April 2006	TCCA J. Palmer 14 July 2006	R. Manson 20 July 2006
4	1 through 16	Revised to incorporate both original and new FWD bracket assembly (short) design, Section 4 and format revised (Pages 3 to 6, 8 to 15)	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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1. GENERAL

A. Introduction

The Eurocopter Canada Limited Left-Hand Litter Installation is designed to carry one person on a portable stretcher.

B. Description

The Left-Hand Litter Installation consists of two configuration variants:

Configuration 1 (P/N 350-200034) utilizes a FWD Bracket Assembly, with a Toe Base, and a Toe Base Cover. Refer to Figure 1.

Configuration 2 (P/N 350-200194) utilizes a shorter FWD Bracket Assembly, and a corresponding Toe Base and Toe Base Cover. Refer to Figure 2.

Configuration 2 was introduced to increase clearance for any equipment that may be located in the nosebay, for example: heating / air conditioning.

The Left-Hand Litter Installation consists of the following main components:

Fixed Provisions

- Heel Base Inboard
- Heel Base Outboard
- Heel Base Cover Inboard
- Heel Base Cover Outboard
- Stringer
- Toe Base (Configuration 1)
- Toe Base Cover (Configuration 1)
- Toe Base (Configuration 2)
- Toe Base Cover (Configuration 2)

Detachable Provisions

- Rear Bracket Assembly
- FWD Bracket Assembly (Configuration 1)
- FWD Bracket Assembly, Short (Configuration 2)
- Locking Bar
- Litter
- Foot Bag

The Left-Hand Litter Installation is an option that allows one patient to be carried on a litter in the LHS of the aircraft. The LH AFT seat is folded and secured against the bulkhead and the LH FWD seat is removed. The litter is then secured into the LHS of the cabin to the two mounting brackets.

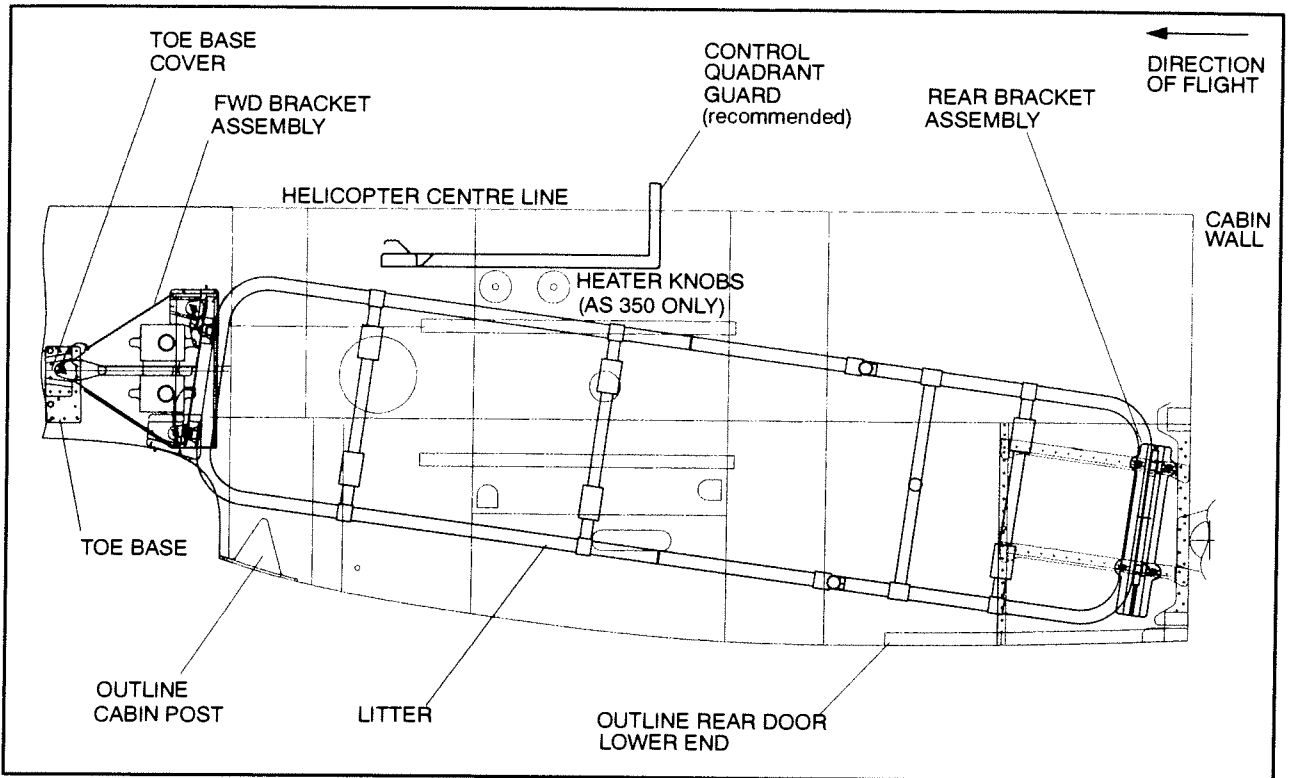


Figure 1 General Layout (Configuration 1)

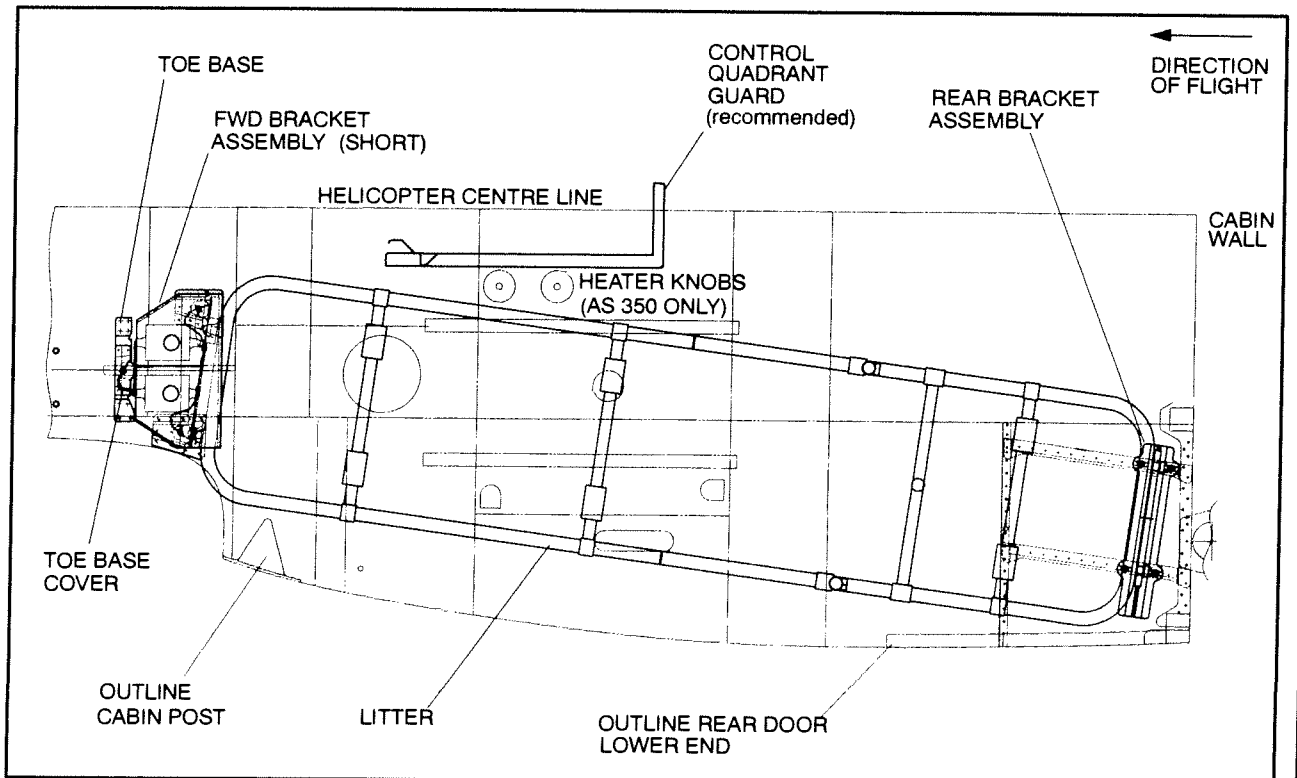


Figure 2 General Layout (Configuration 2)

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C. REFERENCES

DOCUMENT	DOCUMENT TITLE
AC-43.13 - 1B	Acceptable Methods, Techniques and Practices - Aircraft Inspection and Repair
MTC	Standard Practices Manual

D. ABBREVIATIONS & DEFINITIONS

ABBREVIATION	DEFINITION
EC	Eurocopter (France)
ECL	Eurocopter Canada Limited
FAA	Federal Aviation Administration
FWD	Forward
Inbd	Inboard
LH	Left-Hand
LHS	Left-Hand Side
Outbd	Outboard
P/N	Part Number
Vol.	Volume

E. UNITS OF MEASUREMENT

ABBREVIATION / SYMBOL	UNIT OF MEASUREMENT
hrs	hours
in	inch
kg	kilogram
lb	pound
m	meter

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**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS
LEFT-HAND LITTER INSTALLATION
AS 350 / AS 355**

EUROCOPTER CANADA LIMITED

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.

No airworthiness limitations associated with this installation.

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3. CONTROL AND OPERATION

Apart from the following, control and operation of the aircraft remains unchanged: prepare cabin: fold AFT seat and remove LH FWD seat. Secure the front mounting bracket with three quick release pins, and secure the rear bracket assembly with bolts. The litter is then secured onto the brackets and secured with a locking bar.

4. INSPECTION SCHEDULE AND MAINTENANCE ACTION

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

4.1. INSPECTION SCHEDULE

4.1.1. Before the first flight of each day:

ITEM	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
A	- Visually inspect the left-hand litter installation, item 5, in Figure 3, for: a. general condition b. secure installation	a. For major repairs contact ECL. b. Secure as required.

Table 1 Inspection Schedule and Maintenance Action
Before the first flight of each day

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

ITEM	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
A	- Visually inspect mounting hardware, items 7, 8, 9, and 10 (item 10 on Configuration 1 only), in Figure 3, for: a. security b. corrosion	a. Re-tighten as required. b. No corrosion is allowed. If corrosion is found, replace item.
B	- Visually inspect locking bar, item 2 and quick release pins, item 3, in Figure 3 for: a. security	a. Re-tighten as required.
C	- Check the recommended Control Quadrant Guard, item 6, in Figure 3, for: a. security	a. Re-tighten mounting hardware and secure velcro.
D	- Inspect velcro, item 19, on the recommended Control Quadrant Guard, item 6, in Figure 3 for: a. wear (tears, areas that have become worn)	a. Wear is not permitted, if wear is evident, replace Velcro in accordance with EC MTC, Volume 3, Chapter 20.03.04.406.

Table 2 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)

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

ITEM	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
E	<ul style="list-style-type: none"> - Visually inspect Litter, item 5, and mushroom type tie-down bolts, item 4, in Figure 3, for: <ul style="list-style-type: none"> a. cracks or deformation b. corrosion c. scoring d. security (mushroom type tie-down bolts, item 4 only) 	<ul style="list-style-type: none"> a. No cracks or deformation are allowed. If cracks or deformation are found, contact ECL for replacement parts. 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 ECL. c. No scoring exceeding 0.01 inches (0.25 mm) is allowed. If scoring is found within tolerance, repairs may be accomplished with EC, MTC, Vol. 3, Chapter 20.04.03.405. For scoring found outside tolerance, contact ECL. d. Secure as required.
F	<ul style="list-style-type: none"> - Visually inspect items 11, 12, 13, 14, 15, 16, and 17, in Figure 3 for: <ul style="list-style-type: none"> a. cracks or deformation b. corrosion c. scoring 	<ul style="list-style-type: none"> a. No cracks or deformation are allowed. If cracks or deformation are found, contact ECL for replacement parts. 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 ECL. c. No scoring exceeding 0.01 inches (0.25 mm) is allowed. If scoring is found within tolerance, repairs may be accomplished with EC, MTC, Vol. 3, Chapter 20.04.03.405. For scoring found outside tolerance, contact ECL.

Table 2 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)

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

ITEM	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
G	<ul style="list-style-type: none"> - Visually inspect Rear Bracket Assembly, item 1, in Figure 3, for: <ul style="list-style-type: none"> a. cracks or deformation b. corrosion c. scoring 	<ul style="list-style-type: none"> a. No cracks or deformation are allowed. If cracks or deformation are found, contact ECL for replacement parts. 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 ECL. c. No scoring exceeding 0.01 inches (0.25 mm) is allowed. If scoring is found within tolerance, repairs may be accomplished with EC, MTC, Vol. 3, Chapter 20.04.03.405. For scoring found outside tolerance, contact ECL.
H	<ul style="list-style-type: none"> - Visually inspect FWD Bracket Assembly, item 1, or FWD Bracket Assembly, Short, item 4, in Figure 4, for: <ul style="list-style-type: none"> a. cracks or deformation b. corrosion c. scoring 	<ul style="list-style-type: none"> a. No cracks or deformation are allowed. If cracks or deformation are found, contact ECL for replacement parts. 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 ECL. c. No scoring exceeding 0.01 inches (0.25 mm) is allowed. If scoring is found within tolerance, repairs may be accomplished with EC, MTC, Vol. 3, Chapter 20.04.03.405. For scoring found outside tolerance, contact ECL.

Table 2 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)

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

ITEM	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
I	- Visually inspect bumper blocks, item 7, in Figure 4, for: a. wear b. security	a. Excessive wear is not permitted. If excessive wear is evident, contact Eurocopter Canada Ltd. for replacement parts. b. Secure as required.
J	- Visually inspect litter shoulder straps for: a. excessive wear (chafing, cuts, fraying and fading)	a. Excessive wear is not permitted. If excessive wear is evident, contact Eurocopter Canada Ltd. for replacement parts.
K	- Visually inspect foot bag for: a. excessive wear (chafing, cuts, fraying and fading)	a. Excessive wear is not permitted. If excessive wear is evident, contact Eurocopter Canada Ltd. for replacement parts.
L	- Check placards and markings (refer to Section 10) for: a. legibility b. secure mounting	a. If placard has become illegible, contact ECL for replacement parts. b. Secure, reattach placards as required

Table 2 Inspection Schedule and Maintenance Action
Every 100 flight hrs or 12 months, whichever occurs first

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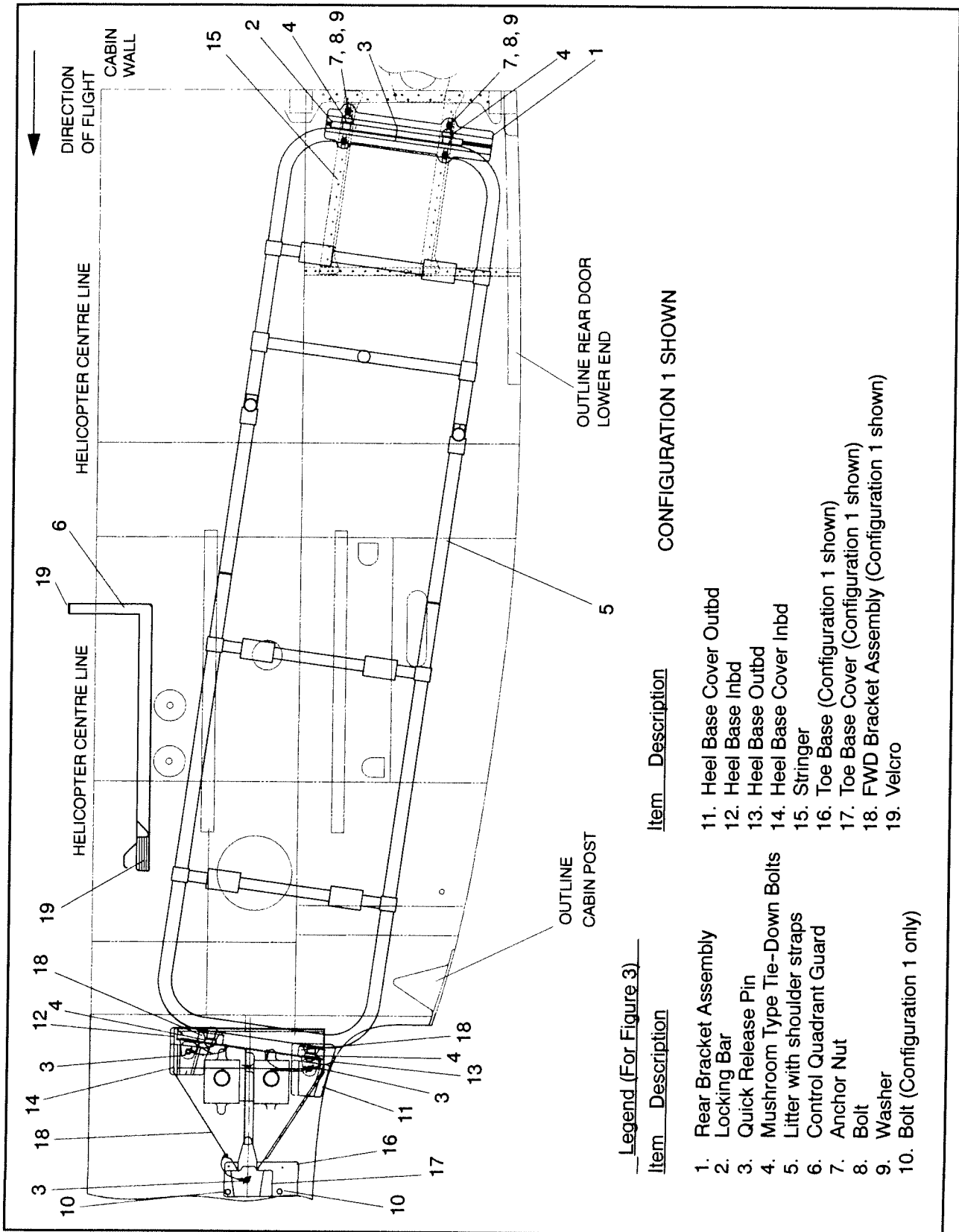


Figure 3 Mounting Hardware

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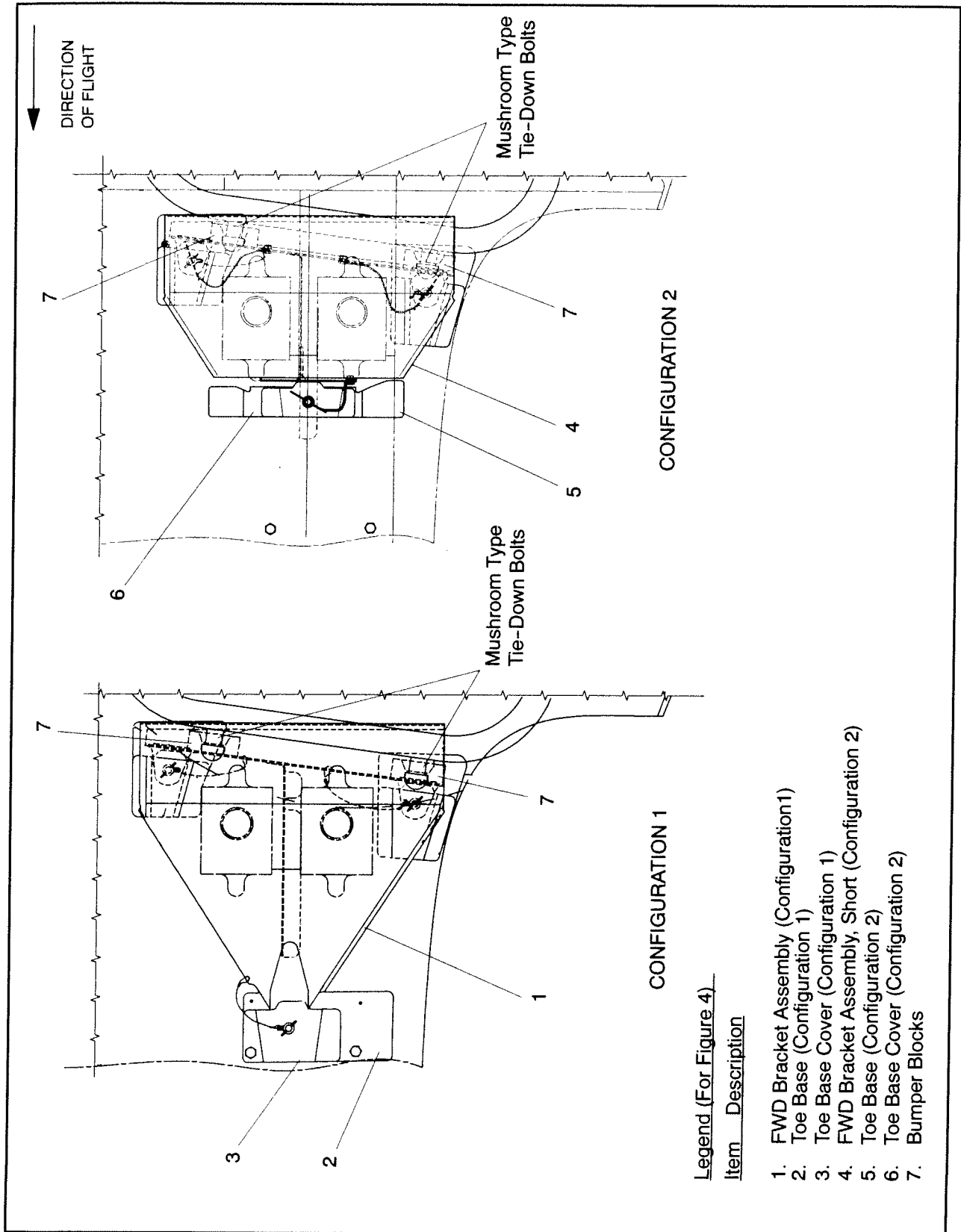


Figure 4 FWD Bracket Assembly Configurations

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5. REPLACEMENT COMPONENTS AND REPAIR / OVERHAUL INFORMATION

No overhaul requirements for this installation.

6. TROUBLESHOOTING

There are no unique characteristics which require special 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.

A. REMOVAL

- 1) Left-Hand Litter Installation (Refer to Figures 3 and 4)
 - a) Open left side door (s).
 - b) Release the AFT litter mushroom type tie-down bolts (4) from the rear bracket assembly (1) by removing the quick release pin (3) and removing the locking bar (2). Refer to Figure 3.
 - c) Remove the mushroom type-tie-down bolts (4) from the FWD bracket assembly (1, Configuration 1) or the FWD bracket assembly, short (4, Configuration 2) mounting holes. Refer to Figures 3 and 4.
 - d) Remove the litter (5) from the aircraft. Refer to Figure 3.
 - e) Secure the locking bar (2) onto the rear bracket assembly (1) for storage. Refer to Figure 3.
 - f) To remove the FWD bracket assembly (1, Configuration 1) or the FWD bracket assembly, short (4, Configuration 2), remove the three quick release pins (3). 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) Left-Hand Litter Installation (Refer to Figures 3 and 4)
 - a) Open left side door (s).
 - b) If removed, reinstall the FWD bracket assembly (1, Configuration 1) or the FWD bracket assembly, short (4, Configuration 2), with the three quick release pins (3). Refer to Figures 3 and 4.
 - c) Load the litter (5) into the aircraft. Refer to Figure 3.

NOTE The foot bag must be loaded forward.

- d) Insert litter mushroom type tie-down bolts (4) into FWD bracket assembly (1, Configuration 1) or the FWD bracket assembly, short (4, Configuration 2) mounting holes. Refer to Figure 4.
- e) Slide AFT litter mushroom type tie-down bolts (4) into rear bracket assembly (1) and secure with locking bar (2) and quick release pin (3). Refer to Figure 3.

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9. WEIGHT AND BALANCE DATA

NOTE: This Weight and Balance Chart is applicable to Configuration 1 or Configuration 2.

A. Removed Items

DESCRIPTION	WEIGHT		ARM		MOMENT	
	kg	lb	m	in	m kg	in lb
LH FWD Seat	- 10.6	- 23.4	1.61	63.4	- 17.1	- 1484.0

B. Added Items

DESCRIPTION	WEIGHT		ARM		MOMENT	
	kg	lb	m	in	m kg	in lb
Litter with straps	11.0	24.3	1.50	59.1	16.50	1436.1
FWD Bracket Assembly or FWD Bracket Assembly, Short	0.51	1.1	0.32	12.5	0.16	13.8
Rear Bracket Assembly	0.95	2.1	2.60	102.4	2.48	215.0
Fixed Provisions	0.51	1.1	0.98	38.3	0.50	42.1
Control Quadrant Guard (recommended)	0.3	0.7	1.66	65.4	0.53	45.8
Total	13.27	29.33	1.52	59.8	20.17	1755.4

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10. PLACARDS AND MARKINGS

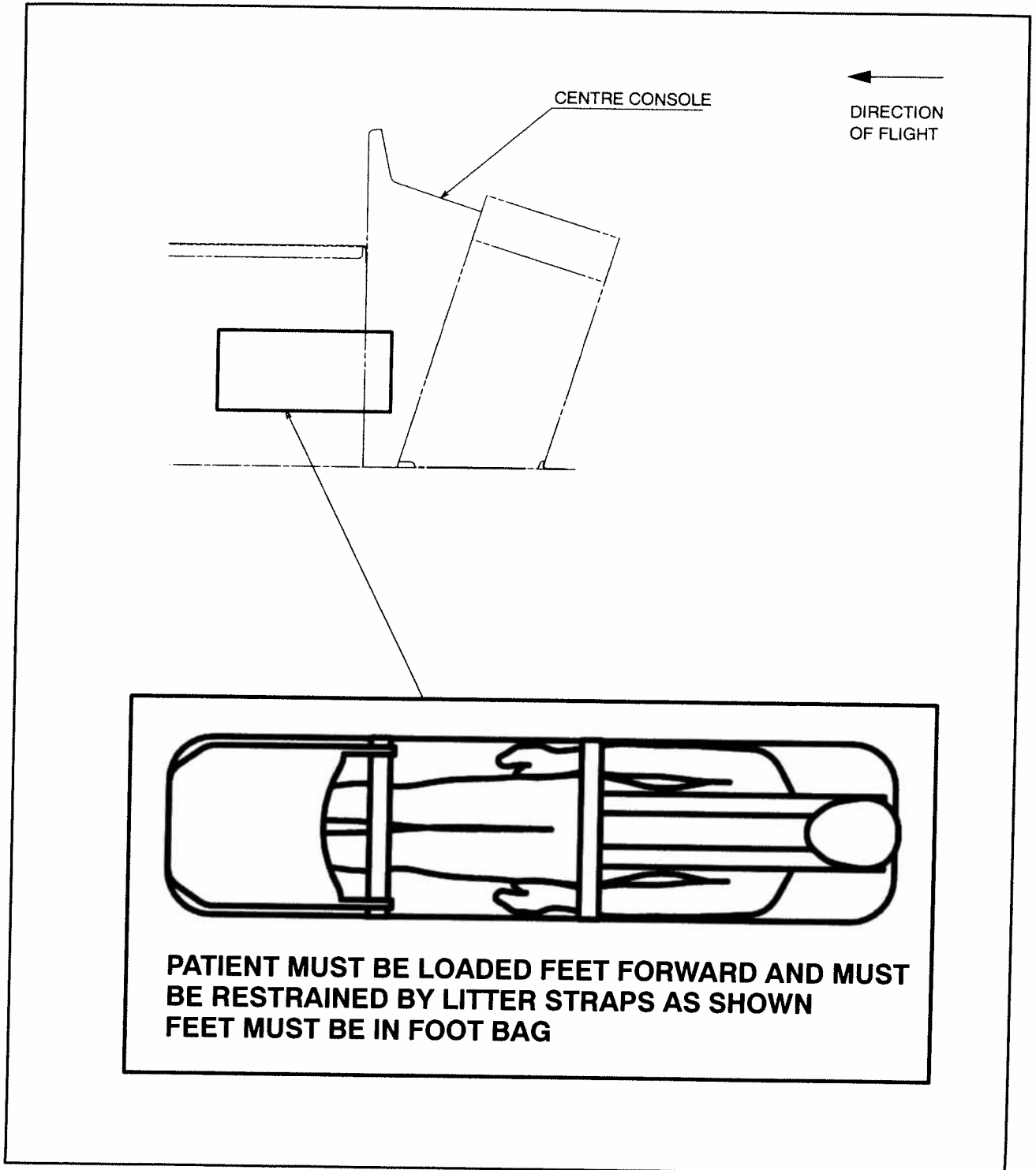


Figure 5 Placard location on LHS FWD of the centre console in the nosebay

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