

AIRBUS HELICOPTERS CANADA LIMITED

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

CI	ID	-	CT:

Required maintenance for the Left-Hand Litter Kit (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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nev.	this Revision	Changed Pages	(name and date)	(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
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5	1 through 20 A1- A4 B1- B4	Standard and Alternative Installation replace Configuration 1 and 2. Figures revised to show relocation of bead chain tether attachment. Revised Airworthiness Limitations Section. New NOTE in Section 4, Maintenance Inspection intervals increased. Addition of two new "Before the first flight of each day" checks. Changed all EC abbreviations to AHCA. Template revised to incorporate company name change. Removed all references to AC43.13-1B. Weight and Balance chart revised. Addition of Appendix A and B.	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.

NOTE: Minor changes are released in accordance with TCCA - ACCEPTED CAR 521-154 procedures (ref. DAPM-E-0001).



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1. GENERAL

A. The Left- Hand Litter Kit is located on the LH side of the cabin floor and is designed to carry one person on a portable stretcher loaded in the "feet forward" orientation with feet in the foot bag. 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 LH side of the cabin to the two mounting brackets. The RH AFT seat is available to carry medical personnel.

The Left- Hand Litter Kit installation (P/N 350-200034) utilizes a FWD Bracket Assembly, with Toe Base, and a Toe Base Cover. Refer to Figure 1.

An alternate Left-Hand Litter Kit installation (P/N 350-200194) utilizes a shorter FWD Bracket Assembly, and a corresponding Toe Base and Toe Base Cover. Refer to Figure 2. The alternate installation increases clearance for any equipment that may be located in the nose bay, 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 (Standard Installation)
- Toe Base Cover (Standard Installation)
- Toe Base (Alternate Installation)
- Toe Base Cover (Alternate Installation)

Detachable Provisions

- Rear Bracket Assembly
- FWD Bracket Assembly (Standard Installation)
- FWD Bracket Assembly, Short (Alternate Installation)
- Locking Bar
- Litter

The Left- Hand Litter Kit is installed in accordance with drawings specified in Master Drawing List MDL-99-001.

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



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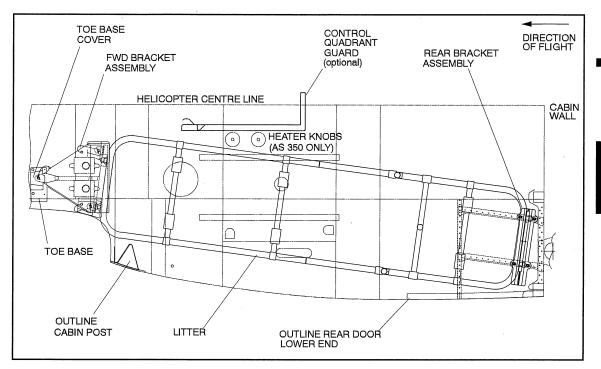


Figure 1 General Layout (Standard Installation)

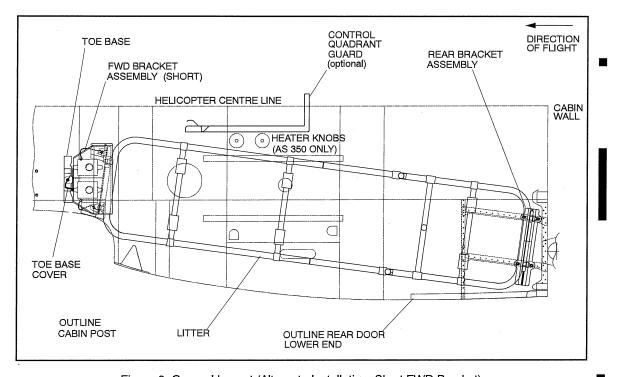


Figure 2 General Layout (Alternate Installation, Short FWD Bracket)

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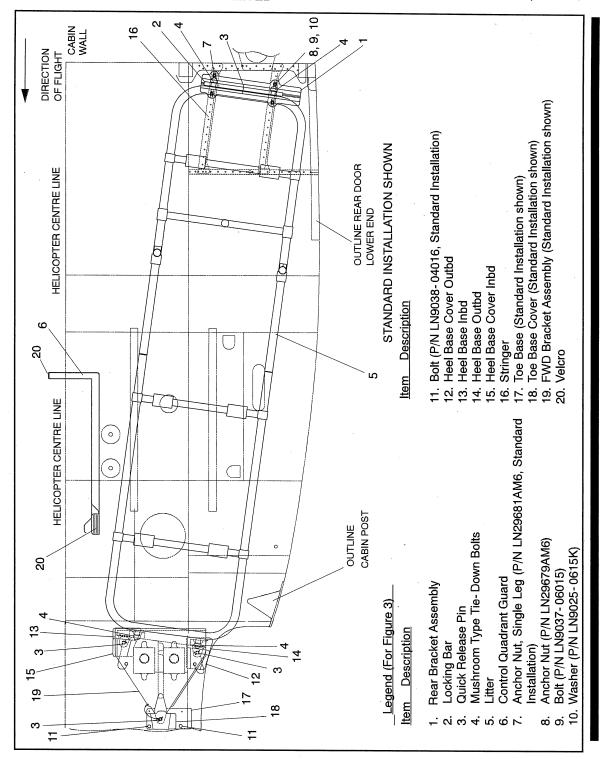


Figure 3 Mounting Hardware

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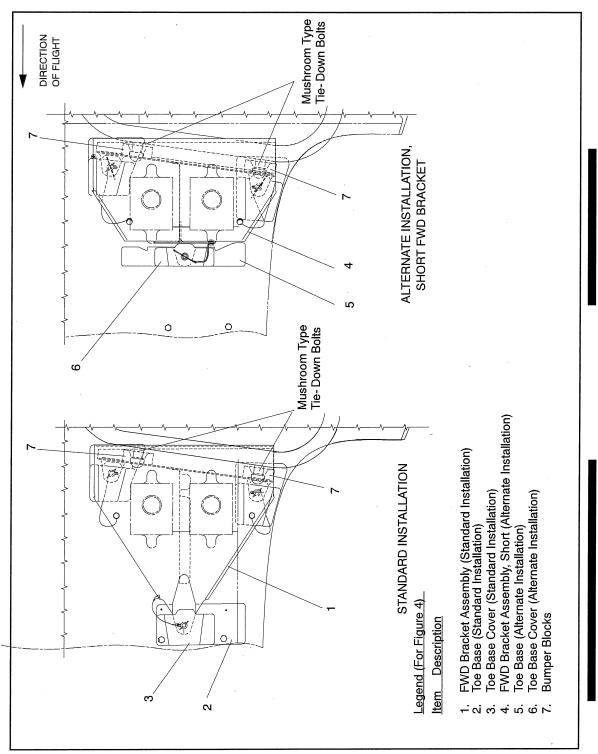


Figure 4 FWD Bracket Assembly Configurations

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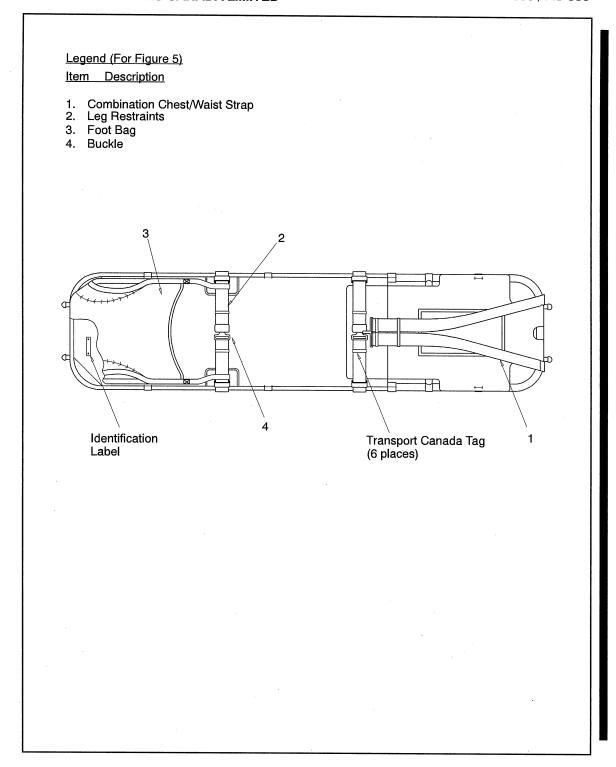


Figure 5 Straps and Foot Bag for Litter



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C. REFERENCES

DOCUMENT	DOCUMENT TITLE
MTC	Standard Practices Manual

D. ABBREVIATIONS & DEFINITIONS

ABBREVIATION	DEFINITION
Acc'd	Accepted
AHCA	Airbus Helicopters Canada Limited
App'd	Approved
A/W	Airworthiness
CAR	Canadian Aviation Regulations
DAPM	Design Approval Procedures Manual
FAA	Federal Aviation Administration
FWD	Forward
ICA	Instructions for Continued Airworthiness
Inbd.	Inboard
LH	Left- Hand
MDL	Master Drawing List
Outbd.	Outboard
P/N's	Part Numbers
ref.	reference
Rev.	Revision
STC	Supplemental Type Certificate
TCCA	Transport Canada Civil Aviation

E. UNITS OF MEASUREMENT

ABBREVIATION / SYMBOL	UNIT OF MEASUREMENT
hrs	hours
in	inch
kg	kilogram
lb	pound
m	meter
mm	millimeters
§§	Sections
D	Days
FH	Flight Hours
M	Months

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

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.

The Airworthiness Limitations Section is FAA approved and specifies inspections and other maintenance required under §§43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

The Airworthiness Limitations Section is approved and variations must also be approved.

No Airworthiness Limitations associated with this installation.

Transport Canada Approved



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3. CONTROL AND OPERATION

Apart from the following, control and operation of the aircraft remain unchanged:

Prepare cabin: fold LH 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 positioned onto the brackets and secured with a locking bar. Refer to Figures 3 and 4.

4. INSPECTION SCHEDULE AND MAINTENANCE ACTION

Refer to Section 8 if removing or replacing any parts.

Refer to the "Ferno" Users' Manual, Model 417-1 Restraint (combination chest/waist strap) Document Number 234-0231-01 (Appendix A) of this document.

Refer to the "Ferno" Users' Manual, Model 430 Restraints (leg restraints) Document Number 234-0109-04 (Appendix B) of this document.

NOTES Use torque per MTC, 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
Α	Visually inspect the LH Litter Kit installation, in Figure 3, for:	
	a. general condition	Ensure there is no cracking, deformation or corrosion on any of the mounting brackets.
В	Visually inspect litter combination chest/waist strap, item 1 and leg restraints, items 2 in Figure 5 for:	
	a. damage or excessive wear (chafing, cuts, fraying and fading)	Damage or excessive wear are not permitted. If damage or excessive wear are evident, contact AHCA for replacement parts.
	b. operation of buckles (item 4) (proper releasing and engagement)	b. If buckles do not operate correctly, contact AHCA for replacement parts.
С	- Visually inspect foot bag, item 3 in Figure 5 for:	
	a. damage or excessive wear (chafing, cuts, fraying and fading)	Damage or excessive wear are not permitted. If damage or excessive wear are evident, contact AHCA for replacement parts.

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

NOTE: The "Before the first flight of each day" task can be carried out by a suitably trained pilot or maintenance personnel.



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4. INSPECTION SCHEDULE AND MAINTENANCE ACTION (continued)

4.1. INSPECTION SCHEDULE

4.1.2. Pre-Flight Check:

_	ITEM	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
	Α	- Visually inspect the LH Litter Kit installation, in Figure 3, for:	
		a. secure installation	a. Secure as required.

Table 2 Inspection Schedule and Maintenance Action Pre-Flight Check

NOTE: The "Pre-Flight Check" task can be carried out by a suitably trained pilot or maintenance personnel.

4.1.3. Every 150 FH or 12 M (Margin: 15 FH or 36 D) to coincide with the 150 FH or 12 M helicopter inspection, whichever occurs first:

ITEM	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
A	- Visually inspect mounting hardware, items 7, 8, 9, 10 and 11 (item 11 on Standard installation only), in Figure 3, for:	
	a. security	a. Secure as required.
	b. corrosion	b. No corrosion is allowed. If corrosion is found, replace item.
В	- Check locking bar, item 2 in Figure 3 for:	
	a. security	a. Secure as required.
	b. wear	b. Wear is not permitted, if wear is evident, contact AHCA for replacement part.
	c. corrosion	c. No corrosion is allowed. If corrosion is found, contact AHCA for replacement part.
	d. cracks or deformation	d. No cracks or deformation are allowed. If cracks or deformation are found, contact AHCA for replacement part.
С	- Check quick release pins, item 3 in Figure 3 for:	
	a. security	a. Re-seat pin in mounting hole.
	b. function - proper releasing and engagement/locking	b. If not properly functioning, contact AHCA for replacement parts.
	c. corrosion	c. No corrosion is allowed. If corrosion is found, contact AHCA for replacement parts.

Table 3 Inspection Schedule and Maintenance Action
Every 150 FH or 12 M, to coincide with the 150 FH or 12 M helicopter inspection, whichever occurs first
(continued on following page)



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4. INSPECTION SCHEDULE AND MAINTENANCE ACTION (continued)

4.1. INSPECTION SCHEDULE (continued)

4.1.3. Every 150 FH or 12 M (Margin: 15 FH or 36 D) to coincide with the 150 FH or 12 M helicopter inspection, whichever occurs first:

ITEM	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
D	- Check Control Quadrant Guard, item 6, in Figure 3, for:	
	a. security	a. Secure mounting hardware and velcro.
E	- Inspect velcro, item 20, on the 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 MTC, Chapter 20- 03- 04- 406.
F	Visually inspect LH Litter, item 5, and mushroom type tie- down bolts, item 4, in Figure 3, for:	
	a. cracks or deformation	a. No cracks or deformation are allowed. If cracks or deformation are found, contact AHCA for replacement parts.
	b. corrosion	b. No corrosion is allowed. If corrosion is found, contact AHCA for replacement parts.
	c. scoring	No scoring is allowed. If scoring is found, contact AHCA for replacement parts.
	d. security (mushroom type tie-down bolts, item 4 only)	d. Secure as required.
G	- Visually inspect items 1,12, 13, 14, 15, 16, 17, and 18, in Figure 3 for:	
	a. cracks or deformation	No cracks or deformation are allowed. If cracks or deformation are
		found, contact AHCA for replacement parts.
	b. corrosion	 b. No corrosion is allowed. If corrosion is found, contact AHCA for replacement parts.
	c. scoring	 No scoring is allowed. If scoring is found, contact AHCA for replacement parts:

Table 3 Inspection Schedule and Maintenance Action
Every 150 FH or 12 M, to coincide with the 150 FH or 12 M helicopter inspection, whichever occurs first
(continued on following page)

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4. INSPECTION SCHEDULE AND MAINTENANCE ACTION (continued)

4.1. INSPECTION SCHEDULE (continued)

4.1.3. Every 150 FH or 12 M (Margin: 15 FH or 36 D) to coincide with the 150 FH or 12 M helicopter inspection, whichever occurs first:

ITEM	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
——————————————————————————————————————	- Visually inspect items 5 and 6 in	CORRECTIVE ACTION
П	Figure 4, for:	
	a. cracks or deformation	a. No cracks or deformation are allowed. If cracks or deformation are
		found, contact AHCA for replacement parts.
	b. corrosion	b. No corrosion is allowed. If corrosion is found, contact AHCA for replacement parts.
	c. scoring	c. No scoring is allowed. If scoring is found, contact AHCA for replacement parts.
Í	- Visually inspect FWD Bracket Assembly, item 1, or FWD Bracket Assembly, Short, item 4, in Figure 4, for:	
	a. cracks or deformation	a. No cracks or deformation are allowed. If cracks or deformation are found, contact AHCA for replacement parts.
	b. corrosion	b. No corrosion is allowed. If corrosion is found, contact AHCA for replacement parts.
	c. scoring	c. No scoring is allowed. If scoring is found, contact AHCA for replacement parts.
J	- Visually inspect bumper blocks, item 7, in Figure 4, for:	
	a. wear	Wear is not permitted. If wear is evident, contact AHCA for replacement parts.
	b. security	b. Secure as required.
K	Visually inspect litter combination chest/waist strap, item 1, and leg restraints, item 2, in Figure 5 for:	
	a. damage or excessive wear (chafing, cuts, fraying and fading)	Damage or excessive wear are not permitted. If damage or excessive wear are evident, contact AHCA for replacement parts.
	b. operation of buckles (item 4) (proper releasing and engagement)	b. If buckles do not operate correctly, contact AHCA for replacement parts.

Table 3 Inspection Schedule and Maintenance Action Every 150 FH or 12 M, to coincide with the 150 FH or 12 M helicopter inspection, whichever occurs first



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4. INSPECTION SCHEDULE AND MAINTENANCE ACTION (continued)

4.1. INSPECTION SCHEDULE (continued)

4.1.3. Every 150 FH or 12 M (Margin: 15 FH or 36 D) to coincide with the 150 FH or 12 M helicopter inspection, whichever occurs first:

ITEM	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
L	- Visually inspect foot bag, item 3 in Figure 5 for:	
	a. damage or excessive wear (chafing, cuts, fraying and fading)	Damage or excessive wear are not permitted. If damage or excessive wear are evident, contact AHCA for replacement parts.
М	- Check placards and markings in Figures 6, 7 & 8 (Section 10) for:	
	a. legibility	a. If placard has become illegible, contact AHCA for replacement parts.
	b. secure mounting	b. Secure, reattach placards as required.

Table 3 Inspection Schedule and Maintenance Action Every 150 FH or 12 M, to coincide with the 150 FH or 12 M helicopter inspection, whichever occurs first

5. REPLACEMENT COMPONENTS AND REPAIR / OVERHAUL INFORMATION

Contact AHCA for replacement parts. No overhaul information required for this installation.

For replacement components:

Airbus Helicopters Canada Limited 1100 Gilmore Road, P.O. Box 250 Fort Erie, Ontario L2A 5M9 Canada Telephone: (905) 871-7772 www.airbushelicopters.ca

6. TROUBLESHOOTING

There are no unique characteristics which require special troubleshooting techniques.

7. SPECIAL TOOLING

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



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8. REMOVAL AND REPLACEMENT

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) Move Litter AFT to disengage the mushroom type- tie- down bolts (4, refer to Figure 3) from the FWD bracket assembly (1, Standard Installation) or the FWD bracket assembly, short (4, Alternate Installation) mounting holes. Refer to Figure 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) using the quick release pin (3) for storage. Refer to Figure 3.
 - f) To remove the FWD bracket assembly (1, Standard Installation) or the FWD bracket assembly, short (4, Alternate Installation), remove the three quick release pins (3). Refer to Figures 3 and
 - 4.
 - g) Slide FWD bracket assembly AFT to remove from toe base cover (18) and heel base covers (12 & 15). Refer to Figure 3.

B. REPLACEMENT

NOTES Use torque per MTC, 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). Remove quick release pin (3) securing locking bar (2) onto rear bracket assembly (1).
 - b) If removed, reinstall the FWD bracket assembly (1, Standard Installation) or the FWD bracket assembly, short (4, Alternate Installation), 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.
 - d Engage the FWD mushroom type tie- down bolts (4, refer to Figure 3) into the FWD bracket assembly (1, Standard Installation) or the FWD bracket assembly, short (4, Alternate Installation). Refer to Figure 4.

NOTE The foot bag must be loaded forward.

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 Standard Installation.

DESCRIPTION	WEIG	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	
Total	- 10.6	- 23.4	1.61	63.4	- 17.1	- 1484.0	

B. Added Items DESCRIPTION WEIGHT ARM MOMENT kg lb in m kg in lb m RH Litter 16.50 1436.1 11.00 24.3 1.50 59.1 FWD Bracket Assembly 0.75 1.6 0.72 28.3 0.54 45.3 215.0 Rear Bracket Assembly 2.1 2.60 102.4 2.48 0.95 Fixed Provisions 0.98 0.50 0.51 1.1 38.4 42.2 Control Quadrant 0.30 0.7 1.66 65.4 0.50 45.8 Total 13.51 29.8 1.52 59.9 20.51 1784.5

NOTE: This Weight and Balance Chart is applicable to Alternate Installation, Short FWD Bracket.

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
Total	- 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
RH Litter	11.00	24.3	1.50	59.1	16.50	1436.1
FWD Bracket Assembly, Short	0.51	1.1	0.75	29.5	0.38	32.5
Rear Bracket Assembly	0.95	2.1	2.60	102.4	2.48	215.0
Fixed Provisions	0.51	1.1	1.00	39.4	0.51	43.3
Control Quadrant	0.30	0.7	1.66	65.4	0.50	45.8
Total	13.28	29.3	1.53	60.5	20.37	1772.7

NOTE The LH FWD seat must be removed to enable installation of the LH Litter Installation. If litter is removed the seat does not need to be re-installed.

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10. PLACARDS AND MARKINGS

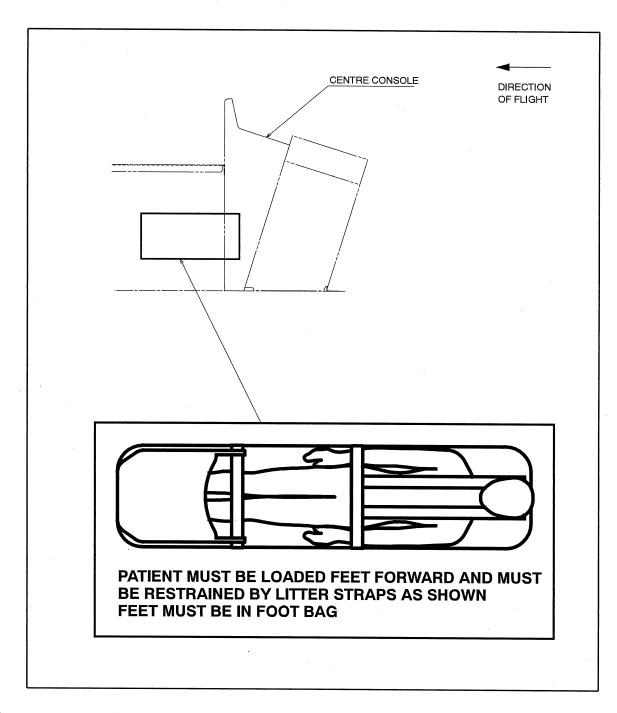


Figure 6 Placard location on LH Side FWD of the center console in the nosebay

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10. PLACARDS AND MARKINGS

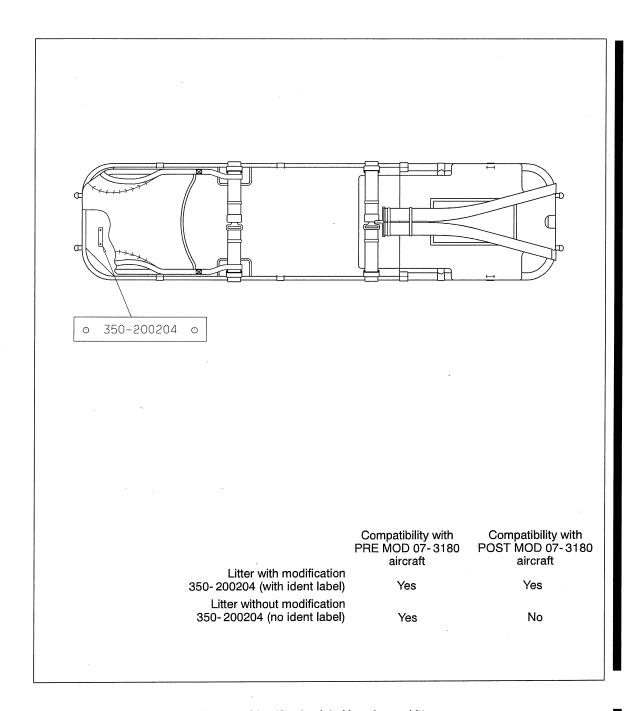


Figure 7 Identification label location on Litter

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10. PLACARDS AND MARKINGS

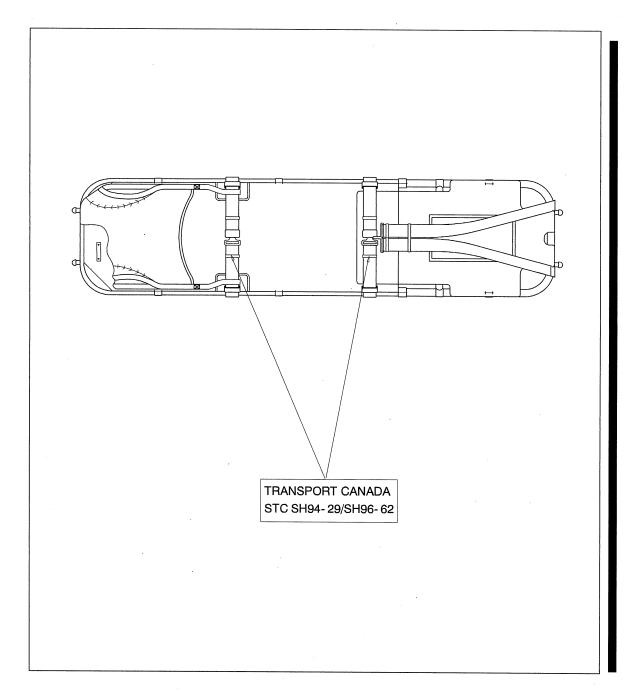
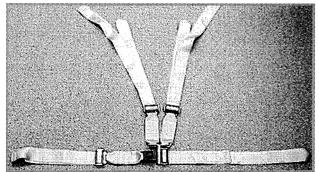


Figure 8 Identification tag located on each belt strap on Litter



August, 2000 Pub. No. 234-0231-01

Model 417-1 Restraint



Model 417-1 Chest and Waist Restraint

Description

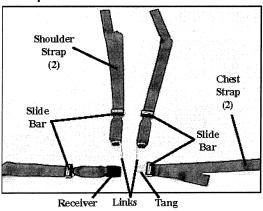
Model 417-1 Restraint (restraint) is a combination chest/waist restraint. It is designed to secure a patient on a patient-handling device when used with local protocols and the instructions in this manual. The restraint is constructed with nylon webbing and a metal buckle.

Use additional restraints, such as Ferno's Model 430, to secure the patient's legs.

A WARNING

Improper use of the restraint can cause injury. Use the restraint only for the purpose described in this manual.

Components



General Specifications

Important

The load limit of the restraint may be higher than the load limit of the equipment it is used on. Do not exceed the load limit of the equipment.

Ferno reserves the right to change specifications without notice.



Maximum Load Limit

Inspect the restraint if load limit has been exceeded.

Before Placing Restraint in Service

- Personnel who will work with the restraint need to read this manual.
- Confirm that restraint operates properly. Follow instructions in *Inspecting the Restraint*, page 3.

A WARNING

Improper operation can cause injury. Operate the restraint only as described in this manual.

SAFETY INFORMATION

Warnings

The following warnings appear in this manual.

A WARNING

Improper use of the restraint can cause injury. Use the restraint only for the purpose described in this manual.

Improper operation can cause injury. Operate the restraint only as described in this manual.

A WARNING

Improper maintenance can cause injury. Maintain the restraint only as described in this manual.

Important

Boxes like the one below emphasize important information.

Important

USING THE RESTRAINT

Fastening/Unfastening Restraint

To fasten restraint:

- Pull shoulder straps over the patient's shoulders and adjust straps until they are against patient's shoulders. Shoulder links and tang should be centered on patient's breastbone.
- Fasten restraint by sliding tang through both shoulder links and into buckle receiver slot until it locks into place (Figure 1).
- 3. Always confirm buckle is securely fastened.

To unfasten restraint:

- 1. Press square release button on front center of receiver.
- 2. Pull tang out of receiver slot and shoulder strap links.

Adjusting Restraint Length

To lengthen restraint, first unfasten it. Then, grasp tang and turn it perpendicular to webbing. Pull tang outward, away from restraint anchorage, until restraint is desired length (Figure 2).

To shorten restraint, grasp hemmed tab and pull webbing through tang slide bar assembly until restraint is desired length (Figure 3).

Attaching Restraint

Attach restraint straps to equipment at points that ensure strong anchorage and proper restraint. Make sure restraint will not interfere with use of equipment or accessories.

To attach the two-piece waist restraint:

- 1. Unbuckle restraint, separating the pieces.
- Wrap looped end of one waist strap around selected attachment point on equipment.

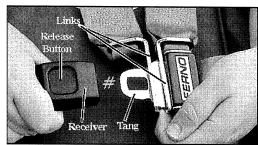


Figure 1 - Fastening Restraint

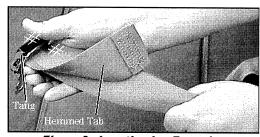


Figure 2 - Lengthening Restraint

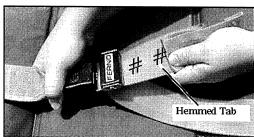


Figure 3 - Shortening Restraint

- Hold loop open and thread buckle end of restraint through opening (Figure 4).
- Pull webbing through loop until loop is snug around attachment point.
- Repeat steps 2-4 to attach other waist strap to opposite side of equipment.
- 6. Confirm that restraint is securely attached.

To attach the shoulder straps:

- 1. Unbuckle restraint, separating the pieces.
- Wrap looped end of restraint around selected attachment point on equipment.
- Hold loop open and thread buckle end of restraint through opening (Figure 4).
- Pull webbing through loop until loop is snug around attachment point.
- Repeat steps 2-4 to attach other shoulder strap to opposite side of equipment.
- 6. Confirm that restraint is securely attached.

Model 417-1 Restraint

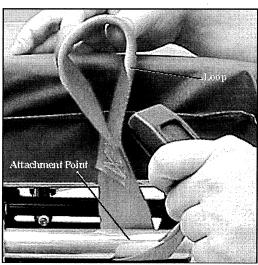


Figure 4 - Attaching Two-Piece Restraint

MAINTAINING THE RESTRAINT

Maintenance Schedule

The restraint requires regular maintenance. Set up and follow a maintenance schedule. Maintenance should be conducted as follows:

Inspecting: Inspect restraint as needed. At minimum, inspect each month.

Disinfecting: Disinfect restraint after each use.

Cleaning: Clean restraint as needed.

A WARNING

Improper maintenance can cause injury. Maintain the restraint only as described in this manual.

Inspecting the Restraint

Inspect restraint regularly and check the following:

- lacktriangledown Are all components present?
- ☐ Is restraint webbing in good condition with no cuts or frayed edges?
- ☐ Are restraint buckles free of visible damage?
- ☐ Do buckles open and close smoothly and properly?
- ☐ Can length be adjusted smoothly and properly?

If inspection indicates damage or excessive wear, take restraint out of service and destroy to prevent accidental use.

Disinfecting and Cleaning Restraint

Important

Metal buckles on the Model 417-1 restraint can be damaged by immersion in liquids or by washing machine action. Disinfect and clean the restraint only as described in this manual.

To disinfect and clean:

- 1. Remove restraint from equipment.
- Spray metal buckles with a disinfectant cleaner and wipe with clean cloth, following disinfectant manufacturer's instructions. Do not immerse buckles.
- Add a disinfectant cleaner to warm water, following instructions on container.
- Immerse restraint webbing in disinfectant solution for the time directed in instructions on container. Do not immerse buckles.
- Repeatedly dip webbing in clear water to rinse. Do not immerse buckles.
- 6. Hang restraints to air dry.

LIMITED WARRANTY

Limited Warranty Summary

Ferno-Washington, Inc. (Ferno), warrants the products we manufacture to be free from defects in material and workmanship for one year except as follows:

Soft goods (webbing, vinyl, fabric, foam, etc.) are warranted for 90 days.

This limited warranty applies when you use and care for the product properly. If the product is not used and cared for properly, the warranty is void. The warranty period begins the day the product is shipped from Ferno or the day you receive it if you have proof of the delivery date. Shipping charges are not covered by the limited warranty. We are not liable for shipping damages or damages sustained through using the product.

Limited Warranty Obligation

If a product or part is proven to be defective, Ferno will repair or replace it. At our option, we will refund the product's purchase price. The purchaser accepts these terms in lieu of all damages.

This is a summary of the limited warranty. The actual terms and conditions of the limited warranty, and the limitations of liability and disclaimers, are available upon request by calling 800.733.3766 or 937.382.1451.

DISCLAIMER

This manual contains general instructions for the use, operation and care of this product. The instructions are not all-inclusive. Safe and proper use of this product is solely at the discretion of the user. Safety information is included as a service to the user. All other safety measures taken by the user should be within and under consideration of applicable regulations. It is recommended that training on the proper use of this product be provided before using this product in an actual situation.

Retain this manual for future reference. Include it with the product in the event of transfer to new users. Additional free copies are available upon request from Customer Service.

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FERNO CUSTOMER SERVICE

Customer service and product support are important aspects of each Ferno product.

For assistance with the Model 417-1 restraint, contact:

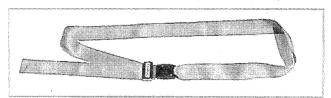
Ferno-Washington, Inc.	Telephone (Nort
70 Weil Way	Telephone (World
Wilmington, OH 45177-9371 U.S.A.	Fax (United Stat
	Fax (Outside II S

Telephone (North America)	800.733.3766
Telephone (Worldwide)	937.382.1451
Fax (United States)	937.382.1191
Fax (Outside U.S.A.)	937.382.6569
Internet	www.ferno.com

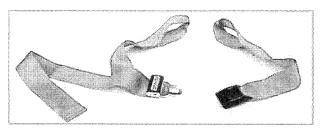


August, 2000 Pub. No. 234-0109-04

Model 430 Restraints



Model 430 One-Piece Restraint

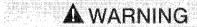


Model 430 Two-Piece Restraint

Description

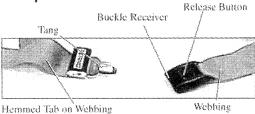
Model 430 Restraints (restraints) are one- or two-piece patient restraints. They are designed to secure a patient on a patient-handling device when used with local protocols and the instructions in this manual.

The restraints are constructed with nylon webbing and a metal buckle. They are available in three lengths.



Improper use of the restraints can cause injury. Use the restraints only for the purpose described in this manual.

Components



General Specifications

Important

The load limit of the restraint may be higher than the load limit of the equipment it is used on. Do not exceed the load limit of the equipment.

Ferno reserves the right to change specifications without notice.



Maximum Load Limit

Inspect the restraint if load limit has been exceeded.

Before Placing Restraints in Service

- Personnel who will work with the restraints need to read this manual.
- Confirm that restraints operate properly, Follow instructions in *Inspecting Restraints*, page 3.



Improper operation can cause injury. Operate the restraints only as described in this manual.

Model 430 Restraints

Users' Manual

SAFETY INFORMATION

Warnings

The following warnings appear in this manual.

A WARNING

Improper use of the restraints can cause injury. Use the restraints only for the purpose described in this manual.

Improper operation can cause injury. Operate the restraints only as described in this manual.

Improper maintenance can cause injury. Maintain the restraints only as described in this manual.

Important

Boxes like the one below emphasize important information.

Important

Metal buckles on the Model 430 restraints can be damaged by immersion in liquids or by washing machine action. Disinfect and clean restraints only as described in this manual.

USING THE RESTRAINTS

Fastening/Unfastening Restraints

To unfasten restraint, press square release button on front center of receiver and pull tang out of receiver slot.

To fasten restraint, push tang into receiver slot until it locks into place (Figure 1).

Always confirm buckle is securely fastened.

Adjusting Restraint Length

To lengthen restraint, first unfasten it. Then, grasp lang and turn it perpendicular to webbing. Pull tang outward, away from restraint anchorage, until restraint is desired length (Figure 2).

To shorten restraint, grasp hemmed tab and pull webbing through tang slide bar assembly until restraint is desired length (Figure 3).

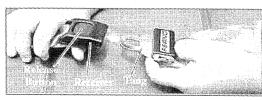


Figure 1 - Fastening Restraint

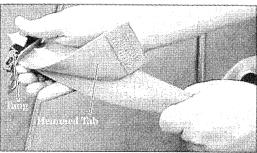


Figure 2 - Lengthening Restraint

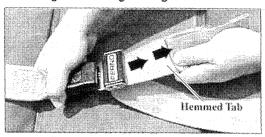


Figure 3 - Shortening Restraint

Attaching Restraints

Select points where restraints will be attached to ensure strong unchorage and proper restraint. Make certain restraints will not interfere with use of equipment or accessories. Attach one-piece restraints according to local protocols.

To attach a two-piece restraint:

- 1. Unbuckle restraint, separating the pieces.
- Wrap looped end of restraint around selected attachment point on equipment.
- Hold loop open and thread buckle end of restraint through opening (Figure 4).
- 4. Pull webbing through loop until loop is snug around attachment point.
- Repeat steps 2-4 to attach other strap to opposite side of equipment.
- 6. Attach additional restraints following steps 1-5.
- 7. Confirm that all restraints are securely attached.

Model 430 Restraints

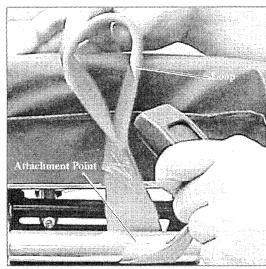


Figure 4 - Attaching Two-Piece Restraint

MAINTAINING THE RESTRAINTS

Maintenance Schedule

Restraints require regular maintenance. Set up and follow a maintenance schedule. Maintenance should be conducted as follows:

Inspecting: Inspect restraints as needed. At minimum, inspect each month.

Disinfecting: Disinfect restraints after each use.

Cleaning: Clean restraints as needed.

A WARNING

Improper maintenance can cause injury. Maintain the restraints only as described in this manual.

Inspecting Restraints

Inspect restraints regularly and check the following:

- Are all components present?
- Is restraint webbing in good condition with no cuts or frayed edges?
- ☐ Are restraint buckles free of visible damage?
- Do buckles open and close smoothly and properly?
- Can length be adjusted smoothly and properly?

If inspection indicates damage or excessive wear, take restraints out of service and destroy to prevent accidental use.

Disinfecting and Cleaning Restraints

Important

Metal buckles on Model 430 restraints can be damaged by immersion in liquids or by washing machine action. Disinfect and clean restraints only as described in this manual.

To disinfect and clean:

- 1. Remove restraints from equipment.
- Spray metal buckles with a disinfectant cleaner and wipe with clean cloth, following disinfectant manufacturer's instructions. Do not immerse buckles.
- Add a disinfectant cleaner to warm water, following instructions on container.
- 4. Immerse webbing in disinfectant solution for the time directed in instructions on container. Do not immerse backles
- Repeatedly dip webbing in clear water to rinse. Do not immerse buckles.
- Hang restraints to air dry.

Model 430 Restraints

Users' Manual

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Ferno-Washington, Inc. 70 Weil Way Wilmington, OH 45177-9371 U.S.A.