

Instructions For Use Purpose

These instructions contain helpful information and important safety instructions for safe and proper operation and servicing of the M9 Transfer stretcher. Read it carefully and fully understand before operating or servicing the stretcher.

Standard Warranty

Thank you for purchasing your product from Howard Wright Limited. Please refer to our website for our warranty terms:

- www.howardwrightcares.com
- www.howardwrightcares.co.uk

Howard Wright Limited's Policy

Howard Wright Limited has a policy of continuous improvement and reserves the right to change product specifications and information referred to in this document without notice.

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This product shall be accepted and used in accordance with national requirements.

- IMPORTANT: Any serious event should be reported by the user and/or patient to Howard Wright Limited, and when within the European Union, the Competent Authority of the member state.
- NOTE: In these instructions, the term patient refers to one who receives medical attention, care, or treatment.

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CONTENTS

CHAPTER	PAGE
1. INTRODUCTION	2
2. PRECAUTIONS	4
3. ABBREVIATIONS, SYMBOLS & TERMINOLOGY	6
4. PART IDENTIFICATION	8
5. UNPACKING & COMMISSIONING	9
6. OPERATION	
7. ACCESSORIES	21
8. CLEANING	27
9. PACKING FOR TRANSPORT OR STORAGE	29
10. ELECTRIC CONTROL PROBLEM SOLVER	
11. MAINTENANCE & SERVICING	
12. SPECIFICATIONS	
13. ELECTROMAGNETIC COMPATIBILITY	
14. CONFORMITY	
15. INDEX	

1. INTRODUCTION

1.1 HOWARD WRIGHT LIMITED

Congratulations on choosing a Howard Wright Limited product. Established in the 1950's, Howard Wright Limited has built a reputation based on quality product and design innovation. Today Howard Wright Limited equipment is found in healthcare institutions worldwide.

1.2 INTENDED USE

The M9 Stretchers are mainly used in assisting the diagnosis, monitoring, prevention, treatment and alleviation of disease, or compensation for an injury or disability.

The M9 Stretchers are designed to be used by trained health professionals and, to a limited extent, members of the public.

The M9 Stretchers are used generally within a hospital emergency department, day surgery clinic, X-Ray (M9 Trauma) or throughout the hospital as a means of treatment for patients, resting and observation of patients and transporting patients from one department or area to another.

The M9 Stretchers are intended to support adult patients aged 12 years and over with a minimum weight of 15kg. The M9 Stretchers may accommodate one patient up to a weight not exceeding 250kg (including mass of mattress and accessories).

1.3 TECHNICAL SUMMARY

1.3.1 VERSIONS

One version of the M9 Transfer stretcher is available:

• M9 Transfer (Horizontal siderails)

This stretcher is supplied with electric operation only.

Various options and accessories are available for the M9 Transfer stretcher. Please contact Howard Wright Limited for more information.

1.3.2 CONSTRUCTION

Howard Wright Limited products are manufactured from high quality durable engineering materials including steel, aluminium and stainless steel with a durable epoxy/polyester hybrid powder coated finish. High quality durable engineering plastics including Nylon, ABS, TPR & Polypropylene are also used.

M9 Transfer stretchers have a LINAK control box. This uses mains power at 220-240 V AC (50-60 Hz) to operate LINAK actuators at 24 V DC. An onboard sealed lead-acid battery provides power when mains power is not available (e.g. when moving the stretcher). Control buttons are located on a remote handset for adjustment of the backrest, deck height, deck tilt, legraise and an auto-contouring preset function.

1. INTRODUCTION

1.4 APPLICATION ENVIRONMENT

The stretcher is only intended for use in these environments:

APPLICATION ENVIRONMENT 1:

Intensive/critical care provided in a hospital where 24 hour medical supervision and constant monitoring is required and provision of life support system/equipment used in medical procedures is essential to maintain/improve the vital functions of the patient.

APPLICATION ENVIRONMENT 2:

Acute care provided in a hospital or other medical facility where medical supervision and monitoring is required and medical equipment used in medical procedures may be provided to help maintain or improve the condition of the patient.

APPLICATION ENVIRONMENT 5

Outpatient (ambulatory) care, which is provided in a hospital or other medical facility, under medical supervision where ME EQUIPMENT, is provided for the need of persons with illness, injury or disability for treatment, diagnosis or monitoring

NOTE: This includes use in nursing homes, rehabilitation and geriatric facilities.

1.5 SAFE WORKING LOAD (SWL)

Maximum patient weight = SWL minus weight of accessories

	1 x O2 cylinder 1 x IV pole 1 x PH pole 1 x Mattress	= = =	
		*	30 kg
MAXIMUM PA	TIENT WEIGHT	=	SWL - 30 kg
Ν	AXIMUM SWL	=	220 kg
<u>○</u> =220kg MAX <u></u> =250kg			

Figure 1. Safe Working Load

NOTE: This is an indicative list. Other accessories can be used and the weight of these must be deducted.

2. PRECAUTIONS

2.1 CONVENTIONS

The following conventions are used in this publication:

- WARNING: Gives instructions or information intended to <u>ensure the safety</u> of the patient, caregiver and other personnel.
- CAUTION: Gives instructions or information intended to avoid damage to the stretcher or its accessories.
- NOTE: Gives additional instructions or information intended to make the stretcher easier to use.

2.2 USER EDUCATION AND TRAINING

- WARNING: If the patient suffers from disorientation, depression or similar then the electric functions should be locked out to prevent the patient operating the stretcher.
- OPERATOR: Must be trained in the use of the stretcher and fully understand the instructions for use.
- PATIENT: Follow the hospital risk management policy. The patient must be capable and fully understand the handset functions before they can operate the electric functions by themselves.

2.3 GENERAL WARNINGS & CAUTIONS

WARNING:	Read and understand these instructions for use before using the stretcher.
WARNING:	Adhere to the hospitals risk management policy when placing a patient on the stretcher.
WARNING:	Leave the stretcher in its lowest position when the patient is unattended.
WARNING:	Do not use the stretcher for cyclic or repetitive manipulations of the patient.
WARNING:	If the stretcher is found to have sustained any damage it must be removed from use immediately.
WARNING:	Ensure there is no risk of crushing or entrapment to the patient, other personnel, stretcher components, or other objects when using the stretcher.
WARNING:	Do not position the stretcher under any object.
WARNING:	Residual current devices (RCD) are not supplied as standard with the stretcher. Consult with your Biomedical Engineer/advisor concerning your RCD requirements.
WARNING:	The stretcher is intended to support one patient at a time only.
WARNING:	Do not connect the power cord if the plug or cord insulation is damaged. The power cord must be replaced. However, the stretcher can still operate on battery
WARNING:	The safe working load of the stretcher is 250kg (this includes the mass of the patient mattress and any accessories).
WARNING:	Do not allow people to sit on the backrest or legraise when it is in the raised position.
WARNING:	Follow the cleaning and disinfection instructions.
WARNING:	Only connect the stretcher to a mains supply with protective earth.
WARNING:	Before using a mobile patient hoist, check underbed clearance.

2. PRECAUTIONS

WARNING:	Do not use in an oxygen rich environment or any flammable gas environment.
WARNING:	Do not modify any component or accessory without prior authorisation from Howard Wright Limited.
WARNING:	Do not transport patients where the stretcher may become unstable For example, inclines over 10 degrees.
WARNING:	When routing cables from other equipment onto the stretcher, take precaution to avoid the cables being squeezed between stretcher components.
WARNING:	Always handle the power cord with care and keep it clear of any moving parts.
WARNING:	Ensure the power cord and plug are always accessible.
WARNING:	The supply plug is the only disconnection device.
CAUTION:	Always stow the power cord and other equipment before transporting the stretcher.
CAUTION:	The leg-raise panel must be physically supported when cleaning the underside.

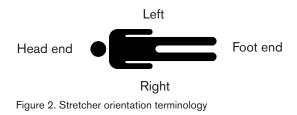
3. ABBREVIATIONS, SYMBOLS & TERMINOLOGY

3.1 ABBREVIATIONS

ABS	Acrylonitrile Butadiene Styrene
AC	Alternating Current
ACH	Attendant Control handset
AS/NZS	Australian/New Zealand Standard
CE	European Conformity
CPR	Cardiopulmonary Resuscitation
DC	Direct Current
EEC	European Economic Community
EMC	Electromagnetic Compatibility
IEC	International Electrotechnical Commission
IP	Ingression Protection
ISM	Industrial, Scientific and Medical
IV	Intravenous
LH	Low Height
PAT	Portable Appliance Test
PE	Polyethylene
PH	Patient Help
POAG	Potential Equalisation Terminal
PP	Polypropylene
PREMA	<u>Pressure RElieving MA</u> ttress
PU	Polyurethane
PVC	Polyvinyl Chloride
RCD	Residual Current Device
SN	Serial Number
SWI	Safo Working Load
SN	Serial Number
SWL	Safe Working Load
TPR	Thermoplastic Rubber

3.2 STRETCHER ORIENTATION TERMINOLOGY

NOTE: The terms head end, foot end, left and right used in this publication are referenced from the perspective of a supine patient.



3.3 SERIAL NUMBER LABEL SYMBOLS

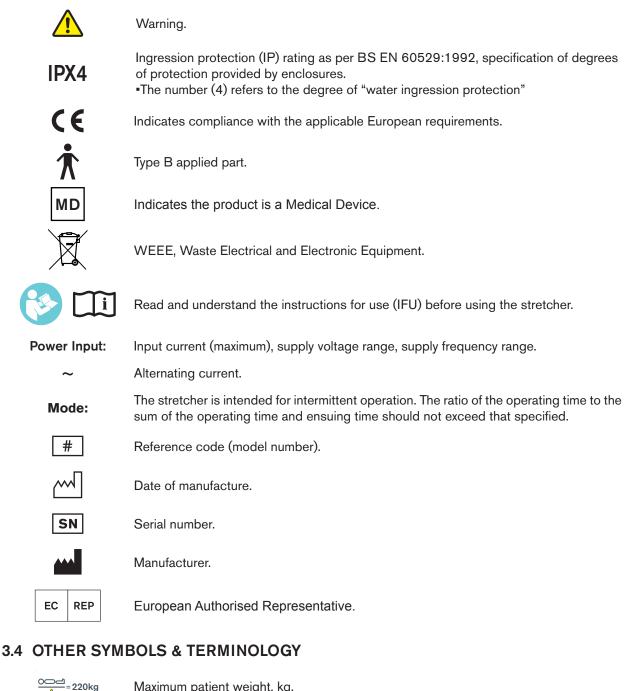
The serial number label is located at the foot end left side of the deck frame.

NOTE: The colour red is used for emergency controls and warning symbols. The brake pedal is red and indicates the brake position.



Figure 3. Stretcher serial number label - M9 Transfer Stretchers

3. ABBREVIATIONS, SYMBOLS & TERMINOLOGY





Maximum patient weight, kg.



Maximum safe working load (SWL), kg.



Warning: potential squeezing/shearing point.



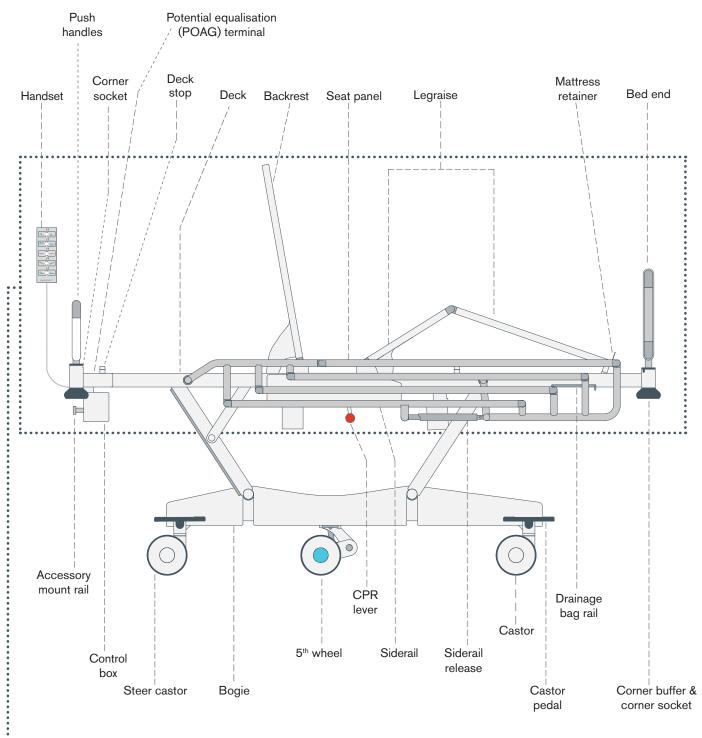
Equipotentiality (potential equalisation).



Do not sit.

4. PART IDENTIFICATION

4.1 PART IDENTIFICATION - M9 TRANSFER STRETCHER



••• Area of applied part

Figure 4. Part Identification - M9 Transfer stretcher

5. UNPACKING & COMMISSIONING

To unpack and commission the stretcher:

- WARNING: Acceptance testing to national regulations needs to be undertaken after the product is delivered to the healthcare facility i.e. after transit. This is the responsibility of the purchaser.
- WARNING: Use an isolating transformer or an earth leakage device between the power cord and the mains supply.
- WARNING: Ensure that the power and handset cords are properly stowed and clear during any adjustment of stretcher components to prevent cord and handset damage.
- WARNING: Do not attempt to lift the stretcher by the deck once the transport ties have been removed.
- CAUTION: Ensure that all transport ties have been cut and removed before using the stretcher.
- CAUTION: Connect the stretcher to the mains power supply to maximise battery life. Fully discharging the battery will reduce its life.

If the stretcher is not used for a long period of time it is recommended that the batteries charged for a minimum of six hours once every three months.

- 1. Remove any external packaging.
- 2. Cut and remove all transport ties.
- 3. Read and understand the stretcher instructions for use manual.
- 4. Install the bed end.
- 5. Manoeuvre the stretcher into position and connect the power cord to the mains supply (220-240 V AC, 50-60 Hz).
- 6. Check that the stretcher is operating correctly (see section 11.5 User Maintenance Checklist).
- NOTE: To manoeuvre the stretcher, release the brakes by setting the castor pedal into the neutral or steer position.

6. OPERATION

6.1 ELECTRIC CONTROLS

- WARNING: Ensure there is no risk of crushing or entrapment to the patient, other personnel, stretcher components, or other objects when using the stretcher. Do not position the stretcher under any object.
- WARNING: If the patient suffers from disorientation, depression or similar then leave the mattress platform flat and lock out all electric functions.
- WARNING: Lock out tilt and hi/lo functions and any other function you do not wish the patient to have access to when the patient has access to the handset.
- CAUTION: Do not operate the stretcher controls for more than 2 minutes over a 20 minute period (i.e. do not exceed the mode/duty cycle).

Handsets are intended to be used by trained health professionals and patients who have been instructed on safe and proper use.

Stretcher adjustments are powered by four electric actuators. The actuators power the following functions:

- 1. Backrest
- 2. Deck height
- 3. Legraise
- 4. Deck tilt
- 5. Auto-contour function

The actuators are controlled by buttons on the handset. Each function has a lock out feature (see 6.2.6 Lock Out Function).

6.1.1 HANDSET LOCATION

The handset is permanently attached to the head end of the deck through a flexible coiled cable. It can be handheld or positioned at either side of the stretcher for easy access by the patient or caregiver. The handset can be stored on a siderail or top rail.

6.1.2 BUTTON OPERATION

Adjustment occurs only when a button is pressed. Adjustment will stop when the button is released or when the moving stretcher section reaches the end of its adjustment.

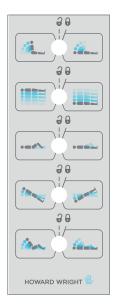


Figure 5. Handset with lockout



Figure 6. Handset (only available with Attendant Control Handset -ACH)

6.2 STRETCHER ADJUSTMENTS

6.2.1 BACKREST

CAUTION: Do not sit on raised backrest section.



To adjust the backrest up and down, press and hold the appropriate backrest adjustment button on the handset. The backrest can be adjusted from 0° to 80°.

NOTE: If the kneebreak is fully raised the backrest will adjust to 70° not 80°. To raise the backrest to 80° lower the kneebreak first.

6.2.2 DECK HEIGHT

WARNING: Leave the stretcher in its lowest position when the patient is unattended.



To adjust the deck up and down, press and hold the appropriate height adjustment button on the handset. The deck height can be adjusted from 350mm to 800mm.

6.2.3 LEGRAISE

WARNING: Ensure legraise is fully lowered when not in use.

CAUTION: Do not sit on a raised legraise.



To adjust the legraise up and down, press and hold the appropriate legraise button. The legraise can be adjusted from 0° to 32°.

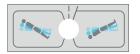
- NOTE: If the backrest is fully raised the kneebreak will adjust to13° not 32°. To raise the kneebreak to 32° lower the backrest first.
- NOTE: Raise the legraise for comfort and to prevent the patient from sliding down the stretcher.

6. OPERATION

6.2.4 DECK TILT

WARNING: Do not leave patients unattended while using the Trendelenburg function.

WARNING: Check the lock-out function is not activated if the deck doesn't tilt when the tilt button is pressed.



To tilt the deck, press and hold the appropriate deck tilt button on the handset. The deck can be adjusted to 16° Trendelenburg (head down) and 13.5° reverse Trendelenburg (foot down).

• When transitioning into Trendeleburg or reverse Trendelenburg, the deck will pause for 2 seconds in the horizontal (flat) position before continuing.

6.2.5 AUTO-CONTOUR POSITIONING FUNCTION

Press and hold the "Auto contour" button to adjust the backrest and legraise simultaneously into the chair position. Press the "Deck flat" button to flatten the deck.



6.2.6 LOCKOUT FUNCTION

NOTE: The lock out feature using the lockout key is only available on the handset when the Attendant Control Handset (ACH) is not fitted.

A lockout is provided for each function. A lockout key is provided and used to lock/unlock each function.

Rotate key clockwise to lock out individual functions and anti-clockwise to unlock each function.

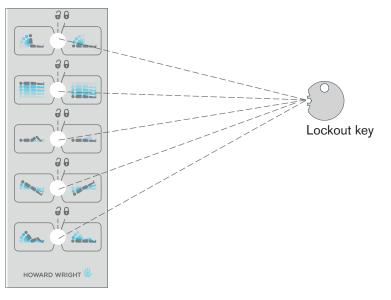
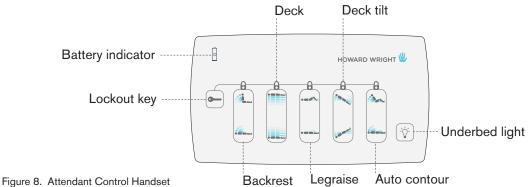


Figure 7. Lockout key

6.3 ATTENDANT CONTROL HANDSET (OPTION)

WARNING: The Attendant Control Handset is to be used by trained health professionals only. It is not to be used by the patient.

The Attendant Control Handset (ACH) is permanently attached to the foot end of the deck through a flexible coiled cable.



6.3.1 STRETCHER ADJUSTMENTS

To adjust the stretcher position press and hold one of the appropriate function buttons (Backrest, Deck, Legraise, Tilt, Auto Contour or Deck flat).

Adjustment will stop when the button is released or the moving stretcher section reaches the end of its range of adjustment.

6.3.2 LOCK OUT

All functions displaying a padlock can be individually locked out. An orange LED light inside the padlock will indicate which function is locked.

To lock the function, hold down the 'lockout key' button and then press the appropriate function button. To unlock the function, hold down the 'lockout key' button and press the appropriate function button.

NOTE: If the Attendant Control Handset is not fitted, the lockout function will be available on the handset

6.3.3 BATTERY INDICATOR

The LED light on the battery symbol indicates when the stretcher is connected to the mains power supply and the battery is charging.

When the battery is low an audible beep will be heard when the handset / ACH buttons are pressed.

- NOTE: Plug the stretcher into the mains supply to recharge the battery immediately when an audible beep is heard when the handset / ACH buttons are pressed.
- NOTE: The stretcher should be plugged into the mains supply whenever possible to maintain performance and battery life.
- NOTE: Allowing the battery to fully discharge will greatly reduce the batteries life.

6.3.4 UNDERBED LIGHT

The underbed light is located beneath the deck. The light can be turned on and off by pressing the underbed light button on the ACH.

6. OPERATION

6.4 BACKREST EMERGENCY RELEASE

- WARNING: Keep clear of the backrest when the backrest emergency release is activated.
- WARNING: The speed of backrest descent will vary depending on the weight of the patient.
- WARNING: Release the CPR lever to stop backrest descent in a hazardous situation.
- CAUTION: If CPR lever is released before backrest is fully lowered, then inspection of actuator is required to check for potential damage.
- CAUTION: Only use the backrest emergency release in emergencies.

A red CPR lever is accessible on both sides of the stretcher to lower the backrest quickly in the case of emergencies (CPR).

To lower the backrest in an emergency:

- 1. Move and hold the red CPR lever towards the head end.
- 2. The backrest will lower to the flat position.
- 3. Release the CPR lever.
- CAUTION: Backrest may not fully raise once the CPR lever has been used. If this occurs fully lower the backrest using the handset to reset the actuator position.



WARNING: Do not expose the battery to open flames or immerse in liquid.

The battery allows the stretcher to be adjusted when the power cord is not connected to the mains supply.

Connect the power cord to the mains supply to charge the battery. If the stretcher is not used for a long period of time, charge the battery for a minimum of six hours once every three months.

- NOTE: Charge batteries 24 hours prior to first use.
- NOTE: Keep the stretcher plugged in for optimum performance and higher running speed.
- NOTE: The battery is a sealed lead-acid type and should be charged regularly to maximise battery life. Do not discharge fully as this will reduce its life.

6.6 POTENTIAL EQUALISATION (POAG)

The potential equalisation terminal (POAG) is located at the head end, left side of the deck. The POAG ensures the patient and any medical device is at the same potential, i.e. voltage and current.

Intravascular or intracardiac procedures have a risk of stray electricity coming into contact with the patient's heart. With such procedures, the stretcher must be protectively earthed from the POAG terminal to the equipotential node within the building structure. This does not rely on the functional earth connection of the mains plug.



Figure 11. Potential equalisation terminal



Figure 9. CPR label

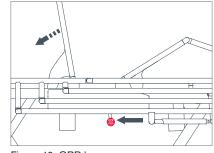


Figure 10. CPR lever

6.7 CASTORS WITH STEER CASTOR

WARNING: Ensure siderails are up during patient transportation.

- WARNING: The castor pedal must be in the brake position when the patient is either:
 - 1. Unattended.
 - 2. Getting on or off the stretcher.

WARNING: Disconnect the power cord before manoeuvring the stretcher.

Castor pedals are located at the foot end of the bogie which are colour coded red and green for easy identification.

The castor pedals are foot-operated and can occupy three positions:

1. Brake position

- Push the red pedal down.
- All four castors are locked.

2. Neutral position

- Adjust pedals to horizontal position.
- All four castors are free to swivel and roll. The stretcher can be manoeuvred in any direction.

3. Steer position

- CAUTION: Ensure the steer castor trails the direction of stretcher movement.
- NOTE: The steer castor is located at the head end.
- NOTE: The stretcher is best manoeuvred from the foot end.
- 1. Adjust the pedal into the neutral position.
- 2. Push the stretcher a short distance in the intended direction of travel.
- 3. Push the green pedal down.
- 4. Continue to push the stretcher. An audible 'click' will be heard when the steer castor locks into position.

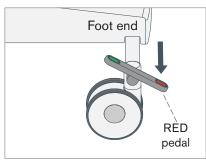


Figure 12. Castor pedal in brake position

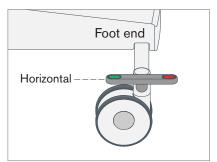


Figure 13. Castor pedal in neutral position

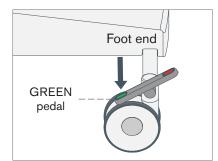


Figure 14. Castor pedal in steer position



6. OPERATION

6.8 CASTORS WITH 5TH WHEEL (OPTION)

The 5th wheel is free to swivel in the neutral position and locks in line with intended direction of travel in the steer position. This allows the stretcher to be easily steered by one person.

1. Brake position

- Push the red pedal down.
- All four castors are locked.

2. Neutral position

- Pedals are horizontal.
- All four castors and 5th wheel are free to swivel and roll.

3. Steer position

- Push the green pedal down.
- Push the stretcher in the intended direction of travel and the 5th wheel will lock into position for steering.

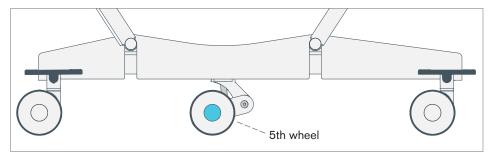


Figure 15. 5th wheel

6.9 BED ENDS

The stretcher is fitted with integrated fold down push handles at the head end. A bed end is an available option for the foot end.

Push handles

To fold down:

- 1. Hold the handles and lift upwards.
- 2. Fold in and down into recess on the deck.

To raise:

1. Reverse the above actions.

Bed end (Option)

To install:

- 1. Hold the bed end with both hands.
- 2. Lower the legs into the sockets on the deck.

To remove:

1. Reverse the above actions.

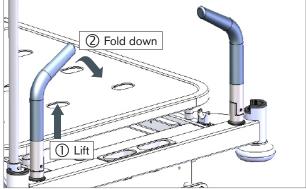


Figure 16. Push handle in raised position

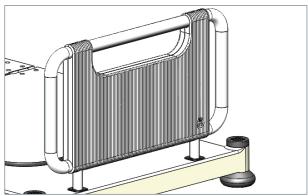


Figure 18. Bed end

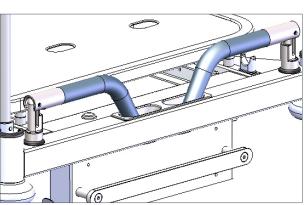


Figure 17. Push handle in folded down position.

6. OPERATION

6.10 SIDERAILS

WARNING: Conduct a risk assessment to identify any risk to the patient from use of the siderails. If there is a risk then the siderails should be strapped down to prevent them from being used.

- WARNING: For safe use of siderails, consult your patient safety advisor.
- WARNING: Siderails are used to prevent patient falls. They are not intended to be used as patient restraints.
- WARNING: Ensure siderails are up during patient transportation.
- WARNING: Check to ensure there is no risk of crushing or entrapment to the patient, other personnel, or other objects when lowering the siderails.
- WARNING: Use only Howard Wright Limited siderails with the stretcher.
- WARNING: Do not use aftermarket siderails. This will create a patient entrapment hazard.

The M9 stretcher siderails fold down and have gas strut assisted raising.

The siderails occupy two positions: full height (raised) or collapsed height (lowered).

NOTE: See section "12. SPECIFICATIONS" for siderail dimensions.

To raise:

- 1. Lift the top rail to its full height position.
- 2. Ensure that the gas strut has locked the siderail in the raised position. This can be seen visually and heard audibly as the release lever drops into position.

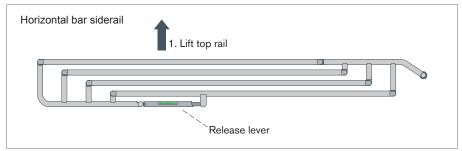


Figure 19. To raise the siderail from the collapsed position

To lower:

- 1. Use one hand to lift the release lever (where it says "LIFT TO LOWER SIDERAIL") latch.
- 2. Use the other hand to push the top rail of the siderail towards the foot end and down into the collapsed position.
- NOTE: Use bed ends with siderails to improve patient safety and reduce the risk of patient falls.

Figure 20. Lift to lower siderail label	
2. Push down top rail.	

Figure 21. Siderail in full height

6.11 UNIVERSAL ACCESSORY MOUNT RAIL

WARNING: The safe working load of the Universal Accessory Mount Rail is 25kg.

- WARNING: Maximum eccentric load application to the Universal Accessory Mount Rail is 100mm.
- WARNING: Ensure accessories are fitted securely to the Universal Accessory Mount Rail as per manufacturers instructions.

The Universal Accessory Mount Rail provides a secure rail system for standard accessories to be fitted.

The Universal Accessory Mount Rail is located at the head end of the stretcher.

NOTE: Maximum torque to be applied to the Universal Accessory Mount Rail is 24 Nm

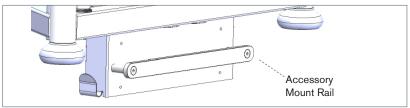


Figure 22. Universal Accessory Mount Rail

6. OPERATION

6.12 DRAINAGE BAG RAIL

Drainage bag rails are located at the foot end on each side of the deck.

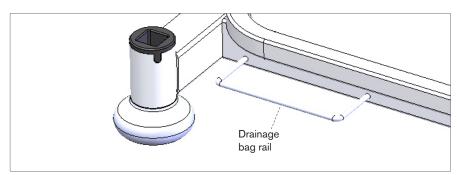


Figure 23. Drainage bag rail

6.13 CORNER SOCKETS

Corner sockets are located at each corner of the deck where various Howard Wright Limited accessories can be plugged in.

6.14 POWER CORD STORAGE

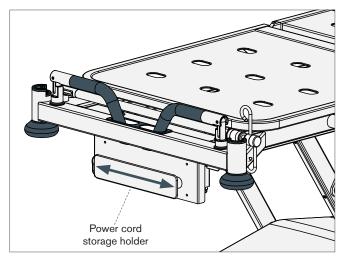
WARNING: Route the power cord on the outside area of the stretcher at all times to avoid cord damage.

WARNING: Always store the power cord when transporting the stretcher or when not in use.

NOTE: Stretcher adjustment will be slower when the power cord is unplugged.

A power cord storage holder is fitted as standard. To store the power cord, wrap the cord around the holder. Any remainder can be hung on the power cord storage hook.

If a Universal Mount rail is fitted, coil the power cord and hang it on the power cord storage hook.



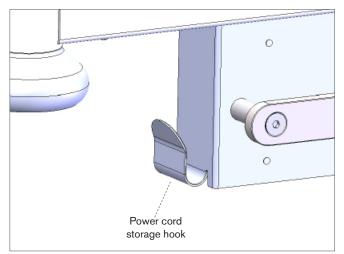


Figure 24. Power cord storage

Figure 25. Power cord storage with a Universal Accessory Mount Rail



7.1 SIDERAIL COVERS

WARNING: Only use M944-03 siderail covers for M9 Transfer Stretchers (Horizontal siderails).

- Inner: Bi-elastic foam
- Cover: Polyurethane coated stretch knit fabric

To fit:

1. Pull cover over the raised siderails. Ensure the long strap and clips are on the inside of the siderail.

2. Fasten the two buckle clips together from under the bottom siderail tube. Pull straps to tighten.

NOTE: Only use siderail covers with the siderails in the raised position.

NOTE: Please see Siderail Covers Instructions for use (M799-69) for further information.

7.2 MATTRESSES

The mattress best suited to the M9 Transfer stretcher is the PREMA Stretcher.

The recommended mattress size for the M9 Transfer stretcher is 2000mm long x 700mm wide x 100mm thick.

The maximum mattress thickness is 160mm.

NOTE: The mattress cover can be removed and machine washed (95°C max). For cleaning and disinfecting information please visit <u>www.howardwrightcares.com</u>

NOTE: Please see PREMA Stretcher Mattress Instructions for use (M799-72) for further information.

7.3 ORTHOPAEDIC FRAME

WARNING: The safe working load of the frame is 100kg and 30kg (weights).

WARNING: It is recommended two people assemble the frame.

WARNING: Apply brakes and lower the stretcher to the minimum height before starting frame assembly.

WARNING: Ensure all clamps are tight before applying any load to the frame.

WARNING: Do not use a monitor tray with the orthopaedic frame.

WARNING: Use knots suitable for the application e.g. surgeon's loop.

The frame plugs into the four corner accessory sockets on the deck.

NOTE: Please see Orthopaedic Frame Instructions for use (M799-67) for assembly instructions and further information.

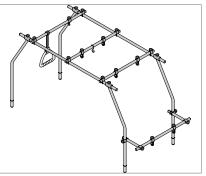


Figure 26. Orthopaedic frame

7.4 IV POLE

WARNING: The safe working load of the IV pole is 15kg.

- WARNING: Check surroundings before adjusting deck height or deck tilt to avoid IV pole collision.
- WARNING: Support the upper shaft before loosening the locking collar.
- WARNING: When securing equipment to the IV pole, ensure that the backrest clears the equipment when it is raised and lowered.
- WARNING: Be mindful of what is above when manoeuvring the stretcher with IV pole raised and extended.
- CAUTION: Do not over tighten equipment clamps.
- CAUTION: Do not attach equipment to the upper shaft.

The IV pole is fitted with hooks for supporting infusion bags and bottles. Other medical equipment can be attached directly to the lower shaft.

Option 1: Fold down IV Pole (factory fitted option)

To fold down:

- 1. Hold the lower shaft of the IV pole and lift upwards.
- 2. Fold down towards the deck and clip into the saddle to hold down.

To raise:

- 1. Reverse the above actions.
- NOTE: Please see IV Pole Instructions for use (M999-47) for further information.

Option 2: IV Pole

To fit:

- 1. Insert the IV pole into an accessory socket
- NOTE: Please see IV Pole Instructions for use (M799-62) for further information.

To adjust the IV pole height:

The adjustment is the same for both options.

- 1. Grip the upper shaft with one hand.
- 2. Loosen the locking collar by turning it anti-clockwise with the other hand.
- 4. Whilst holding the locking collar, slide the upper shaft to the desired height.
- 5. Tighten the collar by turning it clockwise.

7.5 PH Pole

- WARNING: The safe working load for the PH pole is 100kg.
- WARNING: Ensure the strap is locked when the blue adjustment button is released.
- WARNING: Ensure the PH pole is positioned over the stretcher and fully inserted into the accessory socket.

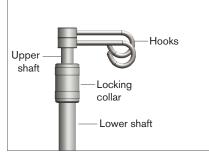


Figure 27. IV Pole

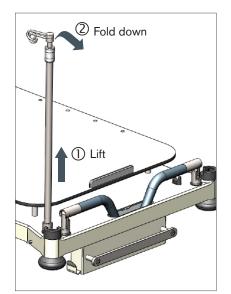


Figure 28. Fold down IV pole - fitted



Figure 29. PH Pole

The PH pole is for patient self assistance in the stretcher and is supplied with an ergonomic plastic handle and adjustable strap.

To fit:

Insert the pole into one of the accessory sockets at the head end of the deck.

To adjust the PH handle:

Press the blue button on the PH handle to adjust the strap length. Release the button to set the selected strap length.

- NOTE: The 100kg PH pole is always positioned above the mattress platform.
- NOTE: Please see PH Pole Instructions for use (M799-63) for further information.

7.6 OXYGEN CYLINDER CARRIER

- WARNING: The safe working load of the oxygen cylinder carrier is 10kg for the A size and Inhalo cylinder carriers, 15kg for the D size cylinder carrier and 20kg for the HX/F size and E size cylinder carrier.
- WARNING: Take care whilst handling the O2 cylinder holder with a cylinder loaded. Do not tip the holder as this may allow the cylinder to slide out.
- WARNING: Assisted loading and unloading is recommended for HX/F and E size oxygen cylinders.
- WARNING: Always ensure adequate clearance for cylinders and regulators during the decks full range of motion. Large regulators or regulators that sit outside the bounds of the carrier could become damaged when deck is lowered if clearance isn't checked.

Three sizes of oxygen cylinder carriers are available for either a NZ "A" size (Australian "C" size), D size or an Inhalo cylinder. Each can be installed into any of the four accessory sockets.

To fit the carrier and the oxygen cylinder:

Insert the oxygen cylinder carrier into one of the accessory sockets.
 Insert the cylinder into the carrier.

- NOTE: Please see Oxygen Cylinder Carrier Instructions for use (M799-59) for further information.
- NOTE: The HX/F and E size oxygen cylinder are a factory fitted option located on the bogie.

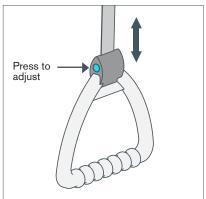


Figure 30. PH handle

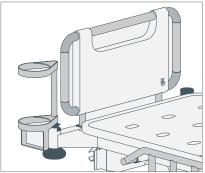


Figure 31. Oxygen cylinder carrier

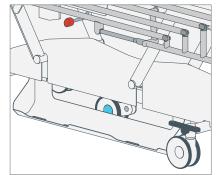


Figure 32. HX/F or E size Oxygen cylinder Carrier

7.7 URINE BOTTLE CARRIER

WARNING: The safe working load of the urine bottle carrier is 2kg.

To fit:

- Place the hook over the top rail of the siderail.
- NOTE: Please see Urine Bottle Carrier Instructions for use (M799-61) for further information.

7.8 MONITOR TRAY

- WARNING: The safe working load of the monitor tray is 25kg.
- WARNING: Ensure all equipment is secured in place using the included straps before manoeuvring the stretcher.
- WARNING: Keep hands and fingers clear of the table top pivots when folding the monitor tray.
- WARNING: Do not use the monitor tray together with the orthopaedic frame (M748-01).

CAUTION: Ensure patients feet are clear of the monitor tray.

The monitor tray is for supporting monitors or instruments at the foot end of the stretcher only.

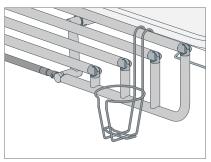


Figure 33. Urine bottle carrier

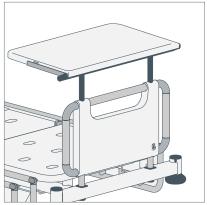


Figure 34. Monitor tray folded up

Fold up:

- Stand at the foot end facing the stretcher.
- Lift the monitor tray up and fold over towards the head end.

Fold down:

- Stand at the foot end facing the stretcher.
- Using both hands, lift the tray up and fold backwards towards the foot end.
- NOTE: Please see Monitor Tray Instructions for use (M799-57) for further information.

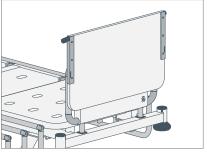


Figure 35. Monitor tray folded down

7.9 CHART HOLDER

WARNING: The safe working load of the chart holder is 2kg.

The chart holder will fit over the bed ends.

NOTE: Please see Chart Holder Instructions for use (M799-71) for further information.

7.10 STORAGE BASKET

WARNING: The safe working load of the storage basket is 10kg.

WARNING: The basket should only be used at the foot end.

The storage basket is for storing the patient's personal belongings.

To fit the basket:

Hang the hooks of the basket over the foot end of the bogie.

NOTE: Please see Storage Basket Instructions for use (M999-55) for further information.

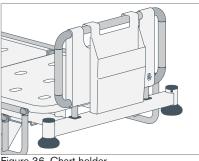


Figure 36. Chart holder

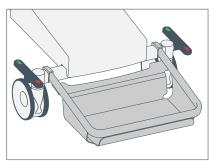


Figure 37. Storage basket

7.11 RESIDUAL CURRENT DEVICE (IF FITTED)

WARNING: If pressing the TEST button and the indicator light does not change from red to black, do not use the stretcher and consult either a Biomedical engineer or an approved electrician.

A Residual Current Device (RCD) is used to increase the electrical safety of an electrical appliance.

The RCD should be tested each time the stretcher is plugged in to the mains supply.

Testing the RCD:

- 1. Connect the power cord to the mains supply and press the RESET button. The indicator light should illuminate red.
- 2. Press the TEST button indicator light should change from red to black.
- 3. Press the RESET button to resume operation.
- NOTE: Please see Residual Current Device Instructions for use (M799-81) for further information.

7.12 PLUG IN EXTENSION

The plug in extension (M921-03) can be fitted at the foot end of the stretcher. The extension is for supporting the feet of taller patients.

To fit:

- 1. Hold the extension with both hands.
- 2. Lower the legs into the sockets on the deck.
- 2. Place the bolster mattress on the extension.

To remove:

- 1. Remove the bolster mattress.
- 2. Remove the extension from the sockets

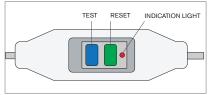


Figure 38. Residual Current Device (RCD)

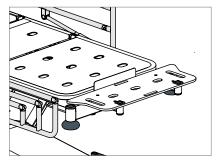


Figure 39. Plug in Stretcher extension

8.1 CLEANING AND DISINFECTION INSTRUCTIONS (ALL SURFACES)

WARNING: Unplug the power cord from the mains supply and ensure castor brakes are applied before cleaning and disinfecting.

CAUTION: The leg-raise panel must be physically supported when cleaning the underside.

CAUTION - General

- Use only approved cleaning and disinfecting products.
- Do not use abrasive cleaning and disinfecting products.
- Do not use a water temperature of more than 50°C.
- Do not use a washing tunnel, high-pressure spray or hose.
- Do not immerse the product in water.
- Do not clean or degrease the steel shafts of the actuators.
- Keep sharp objects away from the mattress and mattress cover.
- Do not use oil based products.
- Do not unplug the handset or actuators from the control box for cleaning and disinfecting.

CAUTION - Chlorine based disinfection

 Chlorine-based disinfectants are corrosive and degrading in nature and may cause damage to your product. Therefore the product must be rinsed thoroughly with clean water and thoroughly dried. Failure to rinse and dry the product will leave a corrosive residue on the surface possibly causing corrosion.

CAUTION - Steam cleaning

- Steam cleaning can be performed if necessary but is not recommended for regular use.
- Do not steam clean castors, electric components or mattresses.
- Only use a lightweight steam cleaner and refer to manufacturer's instructions. Do not use a heavy duty industrial steam cleaner.

CAUTION - Hydrogen Peroxide Sterilisation

- Hydrogen Peroxide Sterilisation can be performed if necessary but is not recommended for regular use.
- Hydrogen peroxide sterilisation should be performed by carefully following the manufacturer's instructions.
- Not all hydrogen peroxide sterilisation devices are the same and it is essential that the user check with the
 manufacturer to ensure that the materials being sterilised are suitable.
- Corrosive damage to some steel components may result following repeated and prolonged hydrogen peroxide sterilisation.
- If any residue remains on the product following sterilisation it should be wiped dry.

Failure to follow the above directions may void the product's warranty.

Cleaning

- 1. Unplug the power cord from the mains supply.
- 2. Depress the castor pedals into the brake position.
- 3. Wipe the product with a sponge or soft cloth wetted with warm water containing soap or mild detergent or use an approved cleaning product in accordance with the manufacturer's instructions.
- 4. Thoroughly rinse with fresh water using a soft cloth or sponge.
- 5. Thoroughly wipe the product with a soft cloth or dry sponge.

Disinfecting

- 1. Unplug the power cord from the mains supply.
- 2. Depress the castor pedals into the brake position.
- 3. Wash the surface with one of the approved disinfecting products or use a pH neutral, high level disinfectant cleaning product in accordance with the manufacturer's instructions.
- 4. Thoroughly rinse with fresh water using a soft cloth or sponge.
- 5. Thoroughly wipe the product with a soft cloth or dry sponge.

8. CLEANING

Chlorine based disinfection - General

- 1. Unplug the power cord from the mains supply.
- 2. Depress the castor pedals into the brake position.
- 3. Wipe the product with a sponge or soft cloth wetted with a solution of chlorine-based disinfectant diluted to 1000ppm.
- 4. Thoroughly rinse with fresh water using a soft cloth or sponge.
- 5. Thoroughly wipe the product with a soft cloth or dry sponge.

Chlorine based disinfection - Blood stain removal

- 1. Unplug the power cord from the mains supply.
- 2. Depress the castor pedals into the brake position.
- 3. Wipe the product with a sponge or soft cloth wetted with a solution of chlorine-based disinfectant diluted to 10,000ppm.
- 4. Thoroughly rinse with fresh water using a soft cloth or sponge.
- 5. Thoroughly wipe the product with a dry sponge or soft cloth.

Steam cleaning (with or without cleaning chemicals)

- 1. Unplug the power cord from the mains supply.
- 2. Depress the castor pedals into the brake position.
- 3. Steam cleaning should be performed by carefully following the manufacturer's instructions. If cleaning chemicals are used, the product should be thoroughly rinsed afterwards with fresh water.
- 4. Thoroughly wipe the product with a soft cloth or dry sponge.

Hydrogen Peroxide Sterilisation

- 1. Unplug the power cord from the mains supply.
- 2. Depress the castor pedals into the brake position.
- 3. Hydrogen peroxide sterilisation should be performed by carefully following the manufacturer's instructions.
- 4. Thoroughly wipe the product with a soft cloth or dry sponge.

Please refer to our website for a list of approved cleaning and disinfecting products.

8.2 MATTRESS FOAM

The mattress cover is waterproof, vapor permeable and features welded seams and a waterproof zip. If the mattress cover is punctured it should be replaced to avoid contamination of the mattress foam.

The mattress foam is not suitable for cleaning and if it becomes soiled or contaminated it must be replaced.

8.3 MATTRESS CLEANING PROCEDURE

- 1. Raise the stretcher to your working height.
- 2. Strip the stretcher of soiled linen and place in the linen skip.
- 3. Wash the top of the mattress with an approved cleaning product.
- 4. Dry the surface with a clean dry cloth or air dry.
- 5. Fold the mattress in half, folding over from the foot end towards the head end.
- 6. Wash the bottom half of the mattress.
- 7. Wipe over the deck surface.
- 8. Wipe dry both the deck surface and the mattress.
- 9. Fold the mattress flat on the stretcher.
- 10. Fold the mattress in half, folding over from the head end towards the foot end.
- 11. Wash the top half of the mattress.
- 12. Wipe over the deck surface.
- 13. Wipe dry both the deck surface and the mattress.
- 14. Make up the stretcher.
- 15. Return to normal height.

9. PACKING FOR TRANSPORT OR STORAGE

To pack the stretcher for transport or storage:

- WARNING: Never lift from the deck.
- WARNING: Never use a forklift.
- CAUTION: If the stretcher is not used for a long period of time it is recommended that the batteries are charged for a minimum of six hours once every three months.
- CAUTION: Transport and storage environment:
 - Ambient temperature range:
- +5°C to +40°C.
- Relative humidity range:Atmospheric pressure range:

30% to 75%. 80 kPa to 106 kPa (Rated to operate at an altitude \leq 2000m).

- 1. Activate the castor brakes.
- 2. Lower the deck fully.
- 3. Remove the bed end.
- 4. Lower the siderails.
- 5. For transport only, use packing string to secure:
 - The IV pole to its storage hooks.
 - The handset and power cord to the bogie.
 - The backrest to the deck.
 - The bogie to the deck (both the head end and the foot end).
 - The legraise to the deck.
 - The siderails (to hold in collapsed position).
- 6. Cover the stretcher to protect it from dust.

10. ELECTRIC CONTROL PROBLEM SOLVER

Use Table 1 below for assistance if the stretcher cannot be adjusted correctly using the electric controls. If further assistance is required, contact Howard Wright Limited or an authorised service dealer.

Problem	Possible cause	To Resolve
All stretcher control buttons do not work.	The battery charge is low and the power cord is not plugged into the mains supply.	Plug the power cord into the mains supply.
	Two or more buttons are being pressed simultaneously.	Press only one button.
	The duty cycle (mode) has been exceeded and the control system has overheated.	Wait for 10 minutes and try again.
	The lockout feature is engaged for all functions.	Use the supplied key to unlock function(s).
	The system software has encountered an error and needs to be reset.	Reset the control box: 1) Using the hand set Press and hold both the DECK UP and DECK DOWN buttons simultaneously. Stretcher will beep 10 times When beeping stops control box is reset.
		FOR STRETCHERS BUILT BEFORE AUGUST 2015. 2)Then press the deck up button until the stretcher reaches its full height.
		FOR STRETCHERS BUILT AFTER AU- GUST 2015. 2)Then initialise the control box by holding down the two top buttons (BACKREST UF and BACKREST DOWN) on the handset, until the stretcher stops moving and beep- ing.
One or more stretcher control functions do not work.	The lock out feature is engaged for one or more functions.	Use the supplied key to unlock the function(s).
The stretcher does not achieve the full range of movement.	Overloading (SWL = 250kg including patient and accessories).	Remove the excess load.
Adjustment is slow.	The battery charge is low and the power cord is not plugged into the mains supply.	Plug the power cord into the mains supply.
Adjustment stops unintentionally.	Overloading (SWL = 250kg including patient and accessories).	Remove the excess load.
	The selected function has reached its limit of adjustment.	
	The battery charge is low and the power cord is not plugged into the mains supply.	Plug the power cord into the mains supply.

Table 1. Electric control problem solver

11. MAINTENANCE & SERVICING

11.1 AUTHORISED SERVICING

WARNING: No servicing or inspection shall be undertaken whilst a patient is occupying the stretcher.

WARNING: Servicing should only be carried out by an authorised service person.

WARNING: Do not modify the stretcher or its accessories without written agreement from Howard Wright Limited.

WARNING: The power supply cord and fuse must be replaced by service personnel only.

CAUTION: Do not tamper with any of the stretchers components.

All inspections, maintenance, servicing and repairs must be carried out either by Howard Wright Limited, an authorised service dealer, a Howard Wright Limited trained technician or by a competent person to national legislation and / or standards.

NOTE: Refer to the Technical Service Manual (M999-29) for detailed instructions on replacement of stretcher components.

11.2 ANNUAL INSPECTION

Inspection of the stretcher shall be performed annually in accordance with the maintenance checklist (section 11.5) and any legal portable appliance testing (PAT) requirements.

11.3 OBTAINING SPARE PARTS & SERVICE

WARNING: All replacement parts must be sourced through Howard Wright Limited.

Howard Wright Limited's products are supported by an extensive network of authorised service dealers. These service dealers are trained by Howard Wright Limited. For contact details of your nearest service dealer please contact Howard Wright Limited.

11.3.1 HWL CONTACT DETAILS

Howard Wright Limited is the manufacturer.

- Name: Howard Wright Limited
- Address: PO Box 3003, Fitzroy 17 Paraite Road, Bell Block New Plymouth 4341 New Zealand T. +64 (6) 755 0976 F. +64 (6) 755 0908 service@howardwright.com

PO Box 2786 Taren Point NSW 2229 Australia T. 1800 120 727 F. 1800 120 717

service@howardwright.com

Howard Wright Limited

Howard Wright Limited

United Kingdom T. 0845 094 9894 www.howardwright.com

11.3.2 STRETCHER INFORMATION

When making service or repair enquiries, please provide the following information:

- Stretcher model (#).
- Stretcher manufacture date (////).
- Stretcher serial number (SN).

This information is recorded on the stretcher serial number label located on the left side at the foot end of the deck.

11. MAINTENANCE & SERVICING

11.4 BATTERY REPLACEMENT

CAUTION: The battery is of sealed lead-acid type and should be disposed of safely to prevent environmental damage.

The life of the battery will depend on the use that it has had. As a guide, it should be replaced every four years.

11.5 M9 TRANSFER USER MAINTENANCE CHECKLIST

- WARNING: To protect yourself when inspecting or servicing keep body and limbs well clear of any moving mechanical componentry. Never place your body and limbs beneath any type of bed, stretcher or shower trolley deck when operating any of the functions.
- WARNING: Unplug the stretcher from mains supply before inspecting the power supply cord and other cables.

Carry out the following maintenance checks annually:

a) Visual check

Visually inspect all components for mechanical damage including:

- Deformed or cracked components.
- Deformed or cracked welded connections.
- Deformed, cracked or loose bolted connections.
- Pivoting connections with loose fasteners that should be tight.
- Bent, cracked or damaged actuators (including body clevis, piston clevis, piston, piston sleeve and plastic housing).

b) Electric controls

- Check that all of the buttons on the handset work correctly.
- Check that the lock out feature is functional on all handset button functions.

c) Electrical system

- Unplug the stretcher from the mains supply. Check all electric cables for cracks, cuts or damage from crushing.
- Unplug the stretcher from the mains supply. Check that the potential equalisation terminal (POAG terminal) is functional by measuring the resistance between the earth pin on the 3 pin plug and the potential equalisation terminal. Check the resistance between the earth pin on the 3 pin plug and any other earth cable on the stretcher (green and yellow cable). Check that the backrest and legraise earth cables lead to a 3 pin plug earth. The resistance in all instances must be less than 0.20Ω.
- Unplug the stretcher from the mains supply. Press any control button to check that the battery will power the
 stretcher adjustments. It may be necessary to plug the power cord into the mains supply for up to one hour
 prior to this test to ensure the battery is charged.
- Adjust the backrest, legraise, deck height and deck tilt. Check that there are no abnormal noises during each functions full range of movement.

d) Backrest quick-release mechanism

Adjust the backrest fully up. Move the CPR lever to the emergency position. Check that the backrest lowers
when force is applied to it. Check that the CPR lever automatically returns to the normal position when it is
released.

e) Bed end

• Check that the bed end can be removed and reinstalled. If jamming occurs clean the bed end sockets and bed end pegs and add a small amount of Vaseline (petroleum jelly) or food grade grease to the sockets.

f) Castors

- Set the castor pedal in the brake position. Check that all four castors cannot swivel or roll.
- Set the castor pedal in the neutral position. Check that all four castors are free to swivel and roll.
- Set the castor pedal in the neutral position. Check that there is no excessive play in the fifth wheel mechanism and the 5th wheel itself.
- Set the castor pedal in the steer position. Check that the 5th wheel (if fitted) locks in line with the length
 of the stretcher and cannot swivel. Check that the remaining castors can swivel.
- Set the castor pedal in the steer position. Check that the steering castor (if fitted) locks in line with the length of the stretcher and cannot swivel. Check that the remaining castors can swivel.

g) Mechanical items

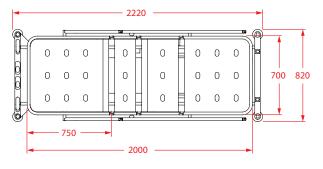
- Check that all bolts, screws, nuts and pivot-pins are securely fastened.
- Check both siderails. Raise siderail and check gas strut assists raising. Check siderail does not lower unassisted. Check that the siderail latch automatically latches with the siderail in the raised position – this can be seen visually and heard audibly. Lift the siderail latch and lower the siderail to see that it is in good working order.

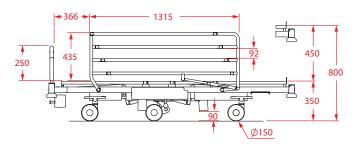
h) Accessories

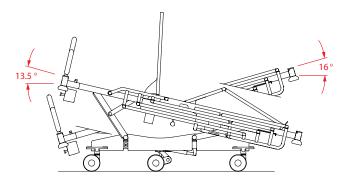
- · Check the siderail covers for rips, cracks or other damage.
- Check the mattress (and bolster mattress) covers for rips, cracks or other damage.
- Check that the IV pole is straight and otherwise free of damage. Check that the locking collar securely locks the pole when tightened.
- Check that the PH pole is straight and otherwise free of damage.
- Check that the PH pole strap is free from cuts and abrasions.
- Check that the PH handle strap adjustment mechanism is operating correctly (applies to adjustable PH handle option).
- Check the blanket cradle for damage.
- Check the oxygen cylinder carrier for damage.
- Check the drainage bag hook rail for damage.
- Check the urine bottle carrier for damage.
- Check the monitor tray for damage. Check that the strap is free from cuts and abrasions and that the buckle is in working order.
- Check the over bed table for damage. Check that the height of the table can be adjusted.
- Check the orthopaedic frame for damage.

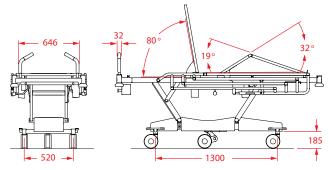
12. SPECIFICATIONS

12.1 M9 TRANSFER STRETCHER









MODEL:M9 TransferIP RATING:IPX4EEC CLASSIFICATION:Class 1, Non-invasiveMAXIMUM SWL:250kg (incl. patient & accessories)STRETCHER MASS:120kg (incl. siderails & bed ends)

EXTRA FEATURES:

Durable powdercoated steel structure
• 4 large soft corner buffers
• LINAK electric system with 4 actuators. Approved to EN 60601-1
• Power input: 220-240 VAC, 50-60 Hz, 2.0 A maximum
Power output: 24 VDC
Backrest & legraise have safety spline
Potential equalisation terminal
Central locking braking with 2 brake pedals and 1 steer castor
4 accessory sockets
CPR quick release backrest
Under bed light (optional)
Power cord storage
IV pole storage

DIMENSIONS:

Overall (incl. corner buffer	s): L: 2220mm, W: 820mm
------------------------------	-------------------------

- Mattress platform: L: 2000mm, W: 700mm
- Backrest: L: 750mm
- Push handle: W: 646mm, D: 32mm (32mm bed end)
- H: 250mm (above mattress platform)
- Siderail: L: 1315mm, H: 435mm (above mattress platform)
- Space between bars: 92mm, (25mm when down)
- Space between push handles and siderail: 366mm
- Corner buffer diameter: 90mm
- Wheel base: 1300mm, wheel track: 520mm
- Castor diameter: 150mm dual Linea Castors

• Maximum deck height: 800mm, Minimum deck height: 350mm

- Linear translation as bed raises and lowers: 0mm
- Trendelenburg: 16°, reverse Trendelenburg 13.5°
- Maximum backrest angle: 80°
- Maximum upper legraise angle: 32°
- Maximum lower legraise angle: 19°
- (All angular dimensions are with reference to horizontal)

UNDER BED CLEARANCES (FOR PATIENT LIFTERS)

 Actuator to floor: Deck low: 90mm (low height) 	
Bogie to floor: 185mm	

TESTING:

• Developed in accordance with the requirements of IEC60601-1:2005 & IEC60601-2-52:2009

Figure 40. M9 Transfer specifications

12.5 ELECTRIC ACTUATOR SYSTEM

- Manufacturer: .
- . Power supply voltage:
- Power supply frequency: .
- Operating voltage: .
- Maximum input current:
- . Duty cycle:

220-240 V AC 50-60 Hz

LINAK

- 24 V DC 2.0 A
- - 10%, do not operate the stretcher for more than 2-minutes over a 20 minute period.

12.6 TRANSPORT & STORAGE ENVIRONMENT

- +5°C to +40°C Ambient temperature range: .
- Relative humidity range: 30% to 75%
- Atmospheric pressure range: 80 kPa to 106 kPa (Rated to operate at an altitude \leq 2000m).

12.7 OPERATING ENVIRONMENT

- Ambient temperature range: +5°C to +40°C .
- Relative humidity range: 30% to 75%
- Atmospheric pressure range: 80 kPa to 106 kPa (Rated to operate at an altitude \leq 2000m).

12.8 SOUND PRESSURE LEVEL

Sound pressure level: 51.0 dBA (MAX) •

12. SPECIFICATIONS

12.9 ACCESSORY SPECIFICATIONS

ACCESSORY	PART NO.	FINISH/SIZE	SWL (kg)
MATTRESS			
 PREMA Stretcher Mattress 	HCS100B	2000 x 700 x 100	N/A
• PREMA Stretcher Mattress 125	HCS105	2000 x 700 x 125	N/A
 Bolster M9 Stretcher (for extension) 	HCS019	200 x 700 x 110	N/A
IV POLES			
 Fold down IV pole (fitted), 2 hooks 	M928-01	Stainless steel	15
 Socket IV pole, 2 hooks 	M928-02	Stainless steel	15
OTHER:			
 Bed end 	M908-02	ABS & Anodized aluminium	25
 Chart holder 	M749-01		
Inhalo cylinder carrier, standard socket	M725-03	Stainless steel	10
Inhalo O2 cylinder carrier, 25mm pin mount	M725-04	Stainless steel	10
 Monitor tray 	M924-01	ABS & Anodized aluminium	25
 Mobile oxygen cylinder carrier base 	M725-07	Powder coated steel	26
 Oxygen cylinder carrier for NZ "A" size (Australian "C" size) 	M725-01	Stainless steel	10
Oxygen cylinder carrier for "D" size	M725-02	Stainless steel	15
 Oxygen cylinder carrier for "D" size with Parapac holder 	M725-05	Stainless steel	15
• Oxygen cylinder carrier for "HX/F" and E size	M925-10	Stainless steel	25
Orthopaedic Frame	M748-01	Stainless steel	100/30
 PH pole complete (fixed handle) 	M729-01	Powder coated steel	100/00
 PH pole complete (adjustable handle) 	M729-02	Powder coated steel	100
Residual Current Device (RCD)	Factory fitted		N/A
 Siderail cover, solid (bi-elastic) 	M944-03	Bi-elastic	N/A
 Storage basket 	M923-01	Powder coated steel &	10
J. J		stainless steel.	
 Stretcher extension (plug in) 	M921-03	Compact laminate & powder coated steel	25
Urine bottle carrier	M727-01	Stainless steel	2

13. ELECTROMAGNETIC COMPATIBILITY

WARNING: The stretcher generates, uses, and can radiate electromagnetic radiation that may interfere with other devices, or vice versa.

13.1 AVOIDING INTERFERENCE

If the stretcher causes interference that affects another device, one or more of the following actions may help:

- Connect a POAG (Potential Equalisation) lead to the stretcher's POAG stud and the wall POAG.
- Reorientate the stretcher or the device being affected by the interference.
- Increase the distance between the stretcher and the device.
- Connect the stretcher and the device to different mains power supply circuits.
- Disconnect the stretcher from the mains supply and do not use the electric controls.

If these measures are not successful, consult Howard Wright Limited for further assistance.



14. CONFORMITY

14.1 TESTING & COMPLIANCE

The M9 Transfer stretcher satisfies the requirements of directive 2017/745, 93/42/EEC and UK MDR 2002 for medical devices - Class 1 medical device products.

The M9 Transfer stretcher has been developed to comply with requirements of:

- IEC60601-1:2005
- IEC60601-2-52:2009

14.2 IP STANDARDS

BS EN 60529:1992.

Specification of degrees of protection provided by enclosures.

IPX4 4 - Protected against water sprayed from all directions, limited ingress permitted.

14.3 RECYCLING

Howard Wright Limited cares for the environment. Our manufacturing facility, based in an ecologically diverse area, means we are committed to a healthy environment. Please follow the recycling guidelines within your country.

All packaging, including cardboard and timber can be recycled.

This stretcher is manufactured from steel, aluminium, ABS and nylon plastics, all of which can be recycled.

All electronic equipment should be returned to an approved electrical waste recycling treatment plant.

Batteries are of a sealed lead acid type and must be returned to a specialist battery disposal company.

Please follow the WEEE (2012/19/EU) directive if within the European Community or environmental legislation in the country of use. Please visit the Environment section of the Howard Wright Limited web site for further information.

The stretcher complies with the RoHS2 (2011/65/EU) directive.

Please see the Howard Wright Limited website for WEEE and Waste Battery information.

See the M9 Transfer Technical Service Manual for details on disassembly of medical stretchers.

14.4 EXPECTED SERVICE LIFE

The expected service life of the M9 Transfer stretcher is 7 years from the date of manufacture.

15. INDEX

ITEM	PAGE	ITEM
Part Index		Figures
Abbreviations	6	Fold down IV
Accessory mount Rail	19	Fold down IV
Accessory specifications		Fold down pu
ACH	13	General Clea
Adjusting IV pole	22	General War
Adjusting PH pole	23	Handset loca
Annual Inspection		Howard Wrig
Application environment		Howard Wrig
Attendant Control Handset		IEC
Authorised Servicing		Intended use
Auto-Contour		Introduction.
Auto Contour position		IP Standards
Backrest		IV pole
Backrest Emergency Release		Legraise
Battery		Lock out
Battery indicator		Lockout key.
Battery replacement		Lowering a si
Bed end		Maintenance
Bleach Cleaning Instructions		Maintenance
Brake castor		Mattress clea
Button operation		Mattress cov
Castor		Mattresses
Cautions		Mattress foar
Chart holder		Monitor tray
Cleaning		Neutral casto
Commissioning the stretcher		Notes
Construction		Operating En
Contact Details		Orthopaedic
Conventions	,	Oxygen cylin
		Packing the s
Corner sockets		Part Identifica
CPR		PH pole
Deck Height		Plug in exten
Deck tilt		POAG
Drainage bag rail		Power cord s
Duty Cycle		Power Input.
Electric Actuator System		Power supply
Electric Control Problem Solver		Precautions.
Electric Controls		Push handles
Electromagnetic compatibility		Raising a side
Expected Service Life		Recycling
Extension		Recycling Residual Cur
Fifth wheel		Nesiuuai Uur

TEM	PAGE
ïgures	41
old down IV pole	22
old down IV Pole	22
old down push handles	17
General Cleaning	27
General Warnings and Cautions	4
landset location	10
loward Wright Limited	2,31
loward Wright Limited's Policy	1
EC	6,38
ntended use	2
ntroduction	2
Standards	38
/ pole	22
egraise	10-13,11
ock out	12,13
ockout key	12
owering a siderail	19
laintenance	31,31-33
laintenance Checklist	32
Attress cleaning procedure	28
Attress cover cleaning	27
Nattresses	21
Attress foam cleaning	28
Ionitor tray	24
leutral castor position	15
lotes	4
Operating Environment	35
Orthopaedic frame	21
Dxygen cylinder carrier	23
Packing the stretcher	29
Part Identification	8
PH pole	22
Plug in extension	
20AG	14
ower cord storage	20,34
ower Input	
ower supply	35
Precautions	4
Push handles	
Raising a siderail	18
Recycling	
Residual Current Device (RCD)	26

15. INDEX

ITEM	PAGE
Safe Working Load (SWL)	3, 36
Serial number	6
Service	31
Siderail	18
Siderail cover	21
Siderail release lever	19
Sound Pressure Level	35
Spare parts	31
Specifications	34
Standard Warranty	1
Steer castor	15
Steer position	15
Storage	29
Storage basket	25
Stretcher adjustment	11, 13
Stretcher information	31
Stretcher orientation	6
Summary	2
Symbols	7
Testing and Compliance	38
Transport Environment	35
Trendelenburg	10-13
Underbed light	13
Unpack the stretcher	9
Urine bottle holder	24
User Education and Training	4
Warnings	4

Table 1. Electric control problem solver30

15. INDEX

FIGURE	PAGE
Figure 1. Safe Working Load	3
Figure 2. Stretcher orientation terminology	6
Figure 3. Stretcher serial number label - M9 Tra Stretchers	
Figure 4. Part Identification - M9 Transfer stretc	
Figure 5. Handset with lockout	
Figure 6. Handset (only available with Attendan	
Handset -ACH)	
Figure 7. Lockout key	
Figure 8. Attendant Control Handset	
Figure 9. CPR label	
Figure 10. CPR lever	14
Figure 11. Potential equalisation terminal	14
Figure 12. Castor pedal in brake position	15
Figure 13. Castor pedal in neutral position	15
Figure 14. Castor pedal in steer position	15
Figure 15. 5th wheel	16
Figure 16. Push handle in raised position	17
Figure 17. Push handle in folded down position	17
Figure 18. Bed end	17
Figure 19. To raise the siderail from the collaps	ed
position	18
Figure 20. Lift to lower siderail label	19
Figure 21. Siderail in full height	19
Figure 22. Universal Accessory Mount Rail	19
Figure 23. Drainage bag rail	20
Figure 24. Power cord storage	20
Figure 25. Power cord storage	20
Figure 26. Orthopaedic frame	21
Figure 27. IV Pole	22
Figure 28. Fold down IV pole - fitted	22
Figure 29. PH Pole	22
Figure 30. PH handle	23
Figure 31. Oxygen cylinder carrier	23
Figure 32. HX/F or E size Oxygen cylinder Car	rier . 23
Figure 33. Urine bottle carrier	
Figure 34. Monitor tray folded up	24
Figure 35. Monitor tray folded down	24
Figure 36. Chart holder	25

FIGURE	PAGE
Figure 37. Storage basket	25
Figure 38. Residual Current Device (RCD)	26
Figure 39. Plug in Stretcher extension	26
Figure 40. M9 Transfer specifications	

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