



Minuet®

USER MANUAL

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Warnings, Cautions & Notes

Warnings given in this manual identify possible hazards in procedures or conditions, which if not correctly followed, could result in death, injury or other serious adverse reactions

Cautions given in this manual identify possible hazards in procedures or conditions, which if not correctly followed, could result in equipment damage or failure.

Notes given in this manual are used to explain or amplify a procedure or condition

WARNING

The tilt facility, if available, should only be used with the guidance of a clinically qualified person.

Ensure the bed is assembled correctly in accordance with the instructions in this manual.

The bed is not designed for patient transport and should not be used for this purpose.

1. Introduction

- This manual provides instructions for the use and maintenance of the ArjoHuntleigh *Minuet*® bed with model numbers listed in the table below

	<u>MODEL NUMBER</u>	
	100500AUS	100520AUS
<u>DESIGN FEATURE</u>		
Four section mattress platform	Yes	
Two section mattress platform		Yes
Electric tilt adjustment	Yes	Yes
Electrical height adjustment	Yes	Yes
Electrical backrest adjustment	Yes	Yes
Electrical leg with elevation	Yes	
Manual leg elevation (straight leg)		Yes

2. Clinical Applications

Area of Use

Private, nursing and convalescent homes.

Indications

The use of the bed is to assist in patient positioning whilst reducing lifting and handling stresses for the carer.

The four-section deck allows the patient to be moved to an upright sitting position with the knees supported or legs elevated.

Contra-indications

The total safe working load of the bed is 180kg (ie. Combined weight of patient, mattress and accessories)

3. Assembly

Check that you have the following parts:

Head end assembly
Foot end assembly
Head end mattress platform assembly
Foot end mattress platform assembly
Control handset
Six clamp screws (loose) and Allen key

Make sure you have enough room to turn the bed from its side to upright when assembled. Use carpet or other suitable protection to avoid damage.

WARNING

Heavy equipment hazard.

The bed and its subassemblies are heavy and appropriate precautions should be taken to avoid injury when lifting or moving them.

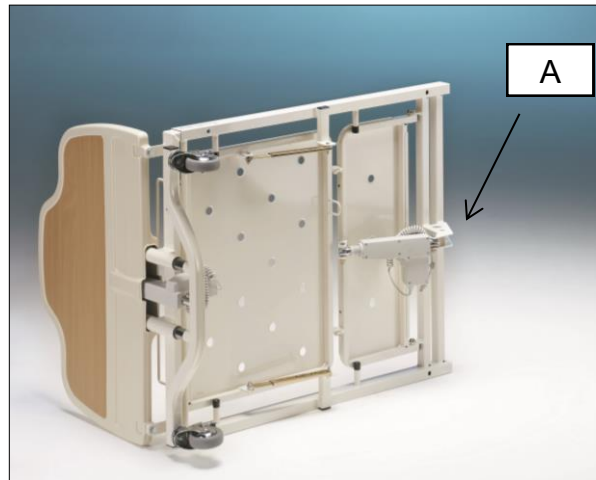
1. On both the head and foot end column assemblies, turn the castors upward and apply the brakes (refer to Operations section). Lay the foot end flat on the floor with the spigots on the frame upper most.



2. Assemble the foot end mattress platform assembly to the foot end.



3. Stand the assembled components on one side with the connector sockets on the backrest actuator or control box (A) uppermost.



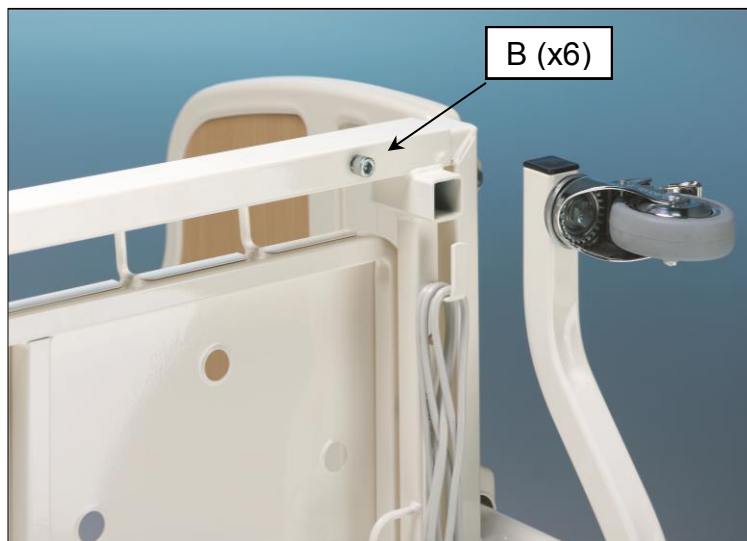
4. Assemble the head end deck assembly to the foot end deck assembly.



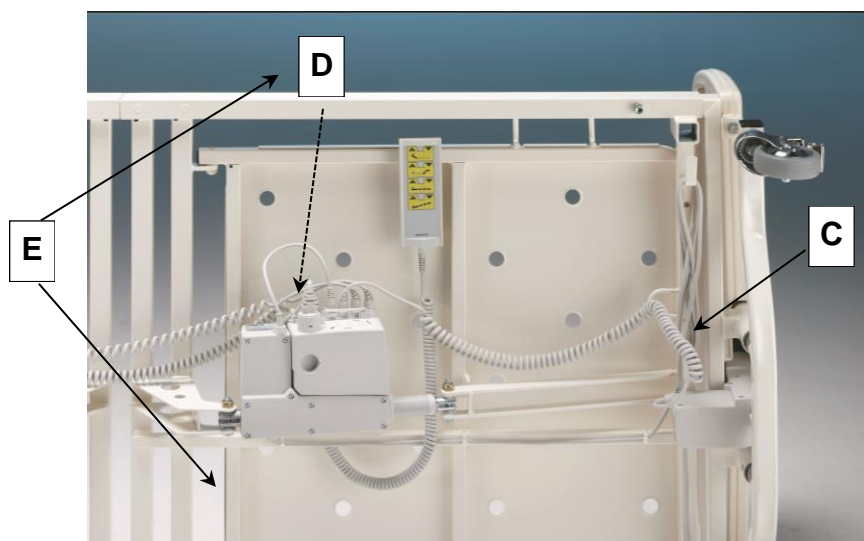
5. Assemble the foot end to the deck.



- There are a total of 6 clamp screws provided for assembling the bed. Assemble the first 3 of these clamp screws (B) on the underside of the side rail tube of one length of the bed. Make sure all joints are fully inserted and tighten all 3 clamp screws securely using supplied Allen key.

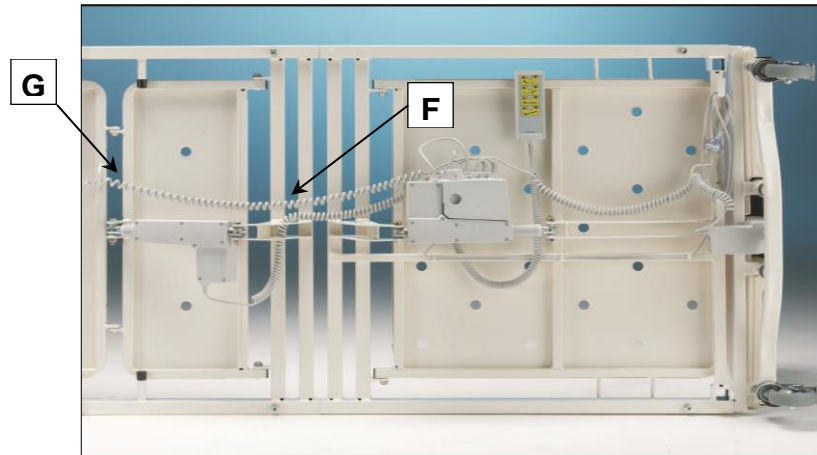


- Carefully thread the head end actuator cable through the support loop (C) on the frame and connect it to socket 3 (D) on the backrest actuator/control box. Adjust the cable coils in the loop so the cable is under tension but not strained. Note, Backrest sheet metal top must be removed by unclipping two tabs (E) in order to access the control box cable ports.



- On models with electric leg elevation, carefully thread the leg actuator cable up through the large hole in the actuator mounting bracket (F). Connect the cable to socket 5 on the backrest actuator or control box.

9. Carefully thread the foot end actuator cable through the support loop (G) on the deck frame and connect it to socket 4 on the backrest actuator/control box. Adjust the cable coils in the loop so the cable is under tension but not strained..



10. Connect the control handset cable to socket 1 on the backrest actuator or control box. Clip control box cable retainer in position and replace backrest sheet metal top.
11. Stand the bed on its castors. Assemble the other 3 clamp screws in the underside of the remaining side rail tube. Make sure all joints are fully inserted and tighten all 3 remaining clamp screws firmly using supplied Allen key.

WARNING
DO NOT use the safety side rails to lift or move bed.

WARNING
Make sure that the mains supply cable is not stretched when connected.
Make sure that the handset and mains cable cannot become entangled with moving parts of the bed.

4. Disassembly— All Models

Lower the bed to minimum height and disconnect the bed from mains power supply.

On both the head and foot end column assemblies, turn the castors inward toward each other and apply the brakes.

Turn the bed on one side. Disconnect the control handset from the socket on the backrest actuator or control box. Disconnect the actuator cables from the sockets on the backrest actuator or control box and remove cables from the support loops on the frame.

Loosen two clamp screws and remove the foot end column assembly.

Loosen two clamp screws and remove foot end column deck assembly.

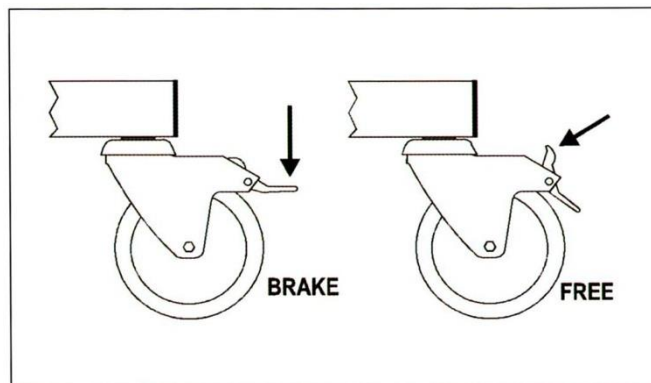
Loosen two clamp screws and remove the head end deck assembly from the head end assembly.

5. Operations

Safety

- Always use a mattress of the correct size and type. A range of suitable pressure reducing and pressure relieving mattress are available from ArjoHuntleigh.
- Before operation of the bed, ensure that no children, pets or obstacles such as bed-side furniture are in its path.
- Before operating the bed, ensure that the patient is positioned correctly to avoid entrapment or imbalance.
- Always apply the brakes when the bed is stationary. When operating the bed in tilt mode, apply the brakes at one end only.
- Do not expose the equipment, especially the mattress, to naked flames such as cigarettes etc.
- Use only ArjoHuntleigh accessories designed or approved for use with the bed.
 - When moving bed, wrap electrical power cable around Cable Tidy, located at bed head end in order to avoid damage to cable.
 - Ensure the bed is connected to mains power at all times.
 - Brakes must be applied before lowering bed to minimum height.
 - Bed must be raised before releasing brakes.
 - Do not adjust bed height during patient transfer.
- Keep these instructions handy for reference.

Castors & Brakes



Power Operation

When a handset push button is pressed, the appropriate bed function will operate until the button is released.

WARNING

Some functions may cause injury to the patient if unintentional movement occurs.

WARNING

If the Handset is dropped to the floor, caught between bed parts or sustains any damage or suspected damage in any way, immediately stop using the Handset and perform the full Handset Checks as detailed in Section 7 - Maintenance.



Leg Elevation - Model 100500AUS

Using the control handset, the legs are elevated by increasing the angle of the thigh section. When the legs are raised, the Kneebreak angle can be manually adjusted by raising or lowering the foot end, which is supported by a self-locking ratchet strut.

To adjust, hold the mattress retention rail and lift the foot end slightly to disengage the latch then raise or lower it, reversing the movement a little to re-engage the latch at the required position.

Model 100520AUS

The legs can be manually elevated by raising the foot end of the mattress deck. To adjust, hold the mattress retention rail and lift the foot end slightly to disengage the latch then raise or lower it, reversing the movement a little to re-engage the latch at the required position.

6. Cleaning

Warning

Before cleaning, disconnect the bed from the mains power supply.

Gloves and protective clothing should always be worn when carrying out cleaning procedures.

All surfaces can be cleaned by wiping with a soft cloth moistened with hot water and a mild detergent. Avoid splashing the actuators and handsets.

Rinse with a cloth moistened with clean water and dry with paper towels.

To remove potentially infectious material such as body fluids, or when used by a client with a known infection, clean afterwards with NaDCC (ie Presept, Actichlor) at 10,000 ppm of available chlorine.

Rinse and dry.

Allow cleaned parts to dry thoroughly before replacing the mattress.

Any proprietary furniture polish may be used on the head and foot panels.

Caution

**Do not use abrasive compounds or pads.
Do not use hypochlorite or phenolic cleaning solutions**

7. Maintenance / Troubleshooting

Warning

Disconnect the bed from mains power supply before starting any maintenance activity.

The following preventative maintenance procedures should be carried out at intervals of 12 months or as specified.

All service and repair activities must only be performed by properly qualified and trained technicians approved by ArjoHuntleigh.

General

Examine the bed for obvious signs of damage. Make sure that all nuts, bolts, clamp screws and other fastenings are tight and not missing.

Examine the flexible cables for cuts, abrasions, kinking or other deterioration. Ensure that the power supply connector plug is securely attached and not damaged. If appropriate, check that the plug fuse is of the correct type (BS 1362 5amp)

If either the plug or cable is damaged then both the plug and cable must be replaced as a complete assembly by an approved service agent.

Castors and Brakes

If fluff or threads are picked up by the castors, these should be removed.

Make sure that castors swivel and rotate freely. Check the brakes for efficient operation. If castors are unsatisfactory they should be replaced.

HANDSET Checks

Between each patient, ArjoHuntleigh strongly advises that the Handset is visually inspected for obvious damage before each use if practicable and that Preventative Maintenance checks are conducted on the handset. When using a specific function staff should be aware of, and checking for, any of the symptoms listed in point 3 below.

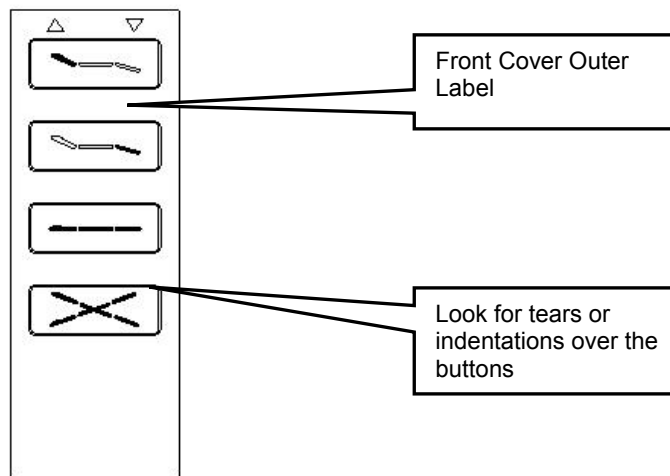
Preventative Maintenance Checks

ArjoHuntleigh recommends that the full check and testing regime is conducted between each bed use or worst case during annual Preventative maintenance. This should take no more than one (1) minute to complete.

1. Visual inspection of handset casing

1.1 Inspect the outer plastic casing for any obvious cracks or damage.

1.2 Inspect for damage to the front cover (outer label) particularly over the buttons where the label may be torn or indented.



If any damage is identified while conducting checks 1.1 and 1.2, immediately quarantine the bed and report the damage to maintenance staff or replace the Handset.

2. Visual inspection of the cable and Cable insulation:

2.1 Inspect the cable for any nicks or cuts in the insulation

2.2 Inspect for any evidence that the cable may have been squashed or flattened.

Squashed or flattened cables may indicate a possible break in the internal conductors or insulation causing conductors to short together which could cause unwanted movement of the bed. Any handsets are found with obvious damage to the cable insulation, immediately report the damage to maintenance staff or replace the Handset.

3. Tactile inspection of the buttons:

All buttons should be operated and response tested.

Depress each button on the handset. Each button should have a positive audible click that is also felt. The function being pressed should also operate.

If the button:

- does not have a click feel
- does not have an audible click sound
- does not immediately operate the function
- feels soft offering no resistance
- feels different to the rest of the buttons
- travels further when depressed

Immediately quarantine the bed and report the damage to maintenance staff or replace the Handset, otherwise contact an ArjoHuntleigh approved Technician.

The following table identifies some fault symptoms, their possible cause and suggest some simple checks and corrective actions. If these actions fail to solve the problem consult the ArjoHuntleigh Service Department on Freecall 1800 072 040.

Symptom	Possible Cause	Action
Actuators fail to work	Power disconnected or batteries discharged (battery backup models only)	Ensure mains supply lead is connected
	Handset disconnected	Check the handset plug is fully inserted in the control box
	Blown fuse	Contact ArjoHuntleigh Service Department on 1800 072 040
	Damaged handset cable	Replace handset
One actuator does not work	Actuator plug disconnected	Check the actuator plug is fully inserted in control box.

8. Accessories — Purchased Separately

Self Help Pole

Installation

Install the pole on either side of the bed in the square socket in the head end frame.

Adjustment

The pole can be located with the horizontal bar over the bed or, when not in use, over the head board. The position of the can be altered by adjusting the length of the strap.

Warning

The maximum safe working load of the self help pole is 76.5kg.

The pole must be used when the handle is central above the mattress platform

A full range of accessories are available from ArjoHuntleigh. Details can be provided upon request.

9. Warranty and Service

Warranty Terms

Your ArjoHuntleigh product is warranted for 36 months from the date of purchase against fault arising due to defects in manufacture or materials.

Parts replaced, or repaired under the terms of this warranty will be covered for the balance of the 36 month period.

The warranty applies only to parts made or approved by ArjoHuntleigh.

The warranty does not extend to items or components which may need replacement due to normal wear and tear (eg. Castors, protective moldings, paint work etc.) for which ArjoHuntleigh, nor its distributors can be held responsible.

Any gradual deterioration in performance after this period is normally associated with fair wear and tear, or misuse and accidental damage and as such is not covered by the manufacturer's warranty.

Warranty Service Visit

If your Minuet bed should require attention due to failure as defined under the warranty terms, please contact the manufacturer or the distributor from whom it was supplied.

10. Technical Specifications

Dimensions

Overall Length	2200mm
Overall Width	920mm
Height to Mattress Platform	
Min	230mm
Max	630mm
Backrest Angles	To 70°
Leg Elevation:	
100500 AUS	18°
100520 AUS	15°
Tilt:	
100500AUS / 100520AUS	10 Head up to 10 Head down
Mattress Size:	1980 x 860 x 150-170mm
Product Weight (approximate)	
Foot End Assembly (standard)	20kg
Head End Assembly (standard)	17kg
Foot End Deck Assembly (with leg elevation)	17kg
Head End Deck Assembly (adjustable Backrest)	21kg
Maximum Safe Working Load (incl. Accessories)	180kg

Electrical Data

Power Input	1A max. at 230V a.c. 50/60Hz
Power Output	24V DC
Duty Rating	Intermittent 10%, Max.2min / 18min
Electrical Safety Standard	Complies with EN 60601-1/ UL60601-1
Electrical Shock Protection	Class 2 Type B
EMC	Complies with BS EN 60601-1-2 2001
Liquid Ingress Protection	IP54

11. Parts List

Product Code	Part	Usage Description	QTY
LIN272100	LA27-C063-00	Backrest Actuator	1
LIN273410	LA27-C062-00	Lift/Tilt Column Actuator	2
LINCB6404	CB6404-10019	Control Box	1
LIN73602	HB7X237-00	2 Section Handset	1
LIN74602	HB7X231-00	4 Section Handset	1
LIN009640	0964002-400	Kneebend & Lift Actuator Cable	2/3
LIN009146	00914657-200-B	Backrest Cable	1
LIN272110	LA27-C064-01	Kneebend Actuator	1
LIN912091	SML912091 3,2m Grey	Power Cable	1
SCR1040	M10 x 40 Z/P Capscrew	Base Assembly	6
FPL5244048	P803 Ext BL Cap 19Dia	Footend Base Assembly	2
FPL2655509	Bumpons SJ-5508	Headend Base Assembly	2
FPL5464023	22mm Sq Int BL Caps	B/rest, Th/panel, F/rest panel	4
WSH11000092	10mm White Nylon Washes	B/rest, Th/panel, F/rest panel	4
FMT2218010	10mm Axle Caps	B/rest, Th/panel, F/rest panel	4
FMT9991703	Rastomat Cathces	Footrest Panel Assembly	2
MCC2699093	White Nylon Bushes	Column Base Assembly	2
MCC2699100	White Nylon Bushes	U/carriage Assembly	2
RIV1604615	Alu Rivet 3/16 CSK 01604-00615	Column Base Assembly	2
CST4480	100mm Fallshaw Castors	U/carriage Assembly	2
FPL5464035	35 Int BL Caps	U/carriage Assembly	2
RIV1661613	Alu Rivet 3/16 Low Profile 01661-00613	U/carriage Assembly	2
TOL1984701	Allen Key	Allen Key	1

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As our policy is one of continuous improvement, we reserve the right to modify designs
without prior notice.

ArjoHuntleigh (ABN 75 007 200 900)

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