

Service Manual

Prioma Medical Bed



PREFACE

Read and understand this manual before attempting to service or repair the equipment. This manual is intended for use by Arjo approved service technicians. The manual may be provided to a customer in response to customer requirements, but in no event will Arjo be responsible for any service or repair performed by customer.

Warnings, Cautions and Notes



WARNING: Indicates possible hazard in procedures or conditions which, if not correctly followed, could result in death, injury or other serious adverse reactions.



Caution: Indicates possible hazard in procedures or conditions which, if not correctly followed, could result in equipment damage or failure.



Explains or amplifies a procedure or condition



Indicates an optional item or feature

General Warnings

- Before starting any service or maintenance procedures, ensure that the equipment has been adequately decontaminated.
- Electrical equipment can be hazardous if misused. Obey all safety instructions. Do not use electrically powered beds in the presence of flammable gases, such as anaesthetic agents.
- The bed and its sub-assemblies are very heavy and appropriate precautions must be taken to avoid injury when moving or lifting them.
- Disconnect the bed from the mains supply before starting any maintenance activity. The bed will still operate on battery power unless the function is locked on the Attendant Control or the Side Control panel.
- Do not remove protective covers or open electrical enclosures while the bed is connected to the mains power supply.

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1. INTRODUCTION

1.1 About This Manual

This manual contains information on the servicing and maintenance of the Arjo Prioma Medical Bed.

Section 1.

Introduction (this chapter): General description of the equipment with an explanation of the various features available, together with contact details for Arjo around the world.

Section 2.

Decontamination: recommended procedures for cleaning and disinfecting the equipment.

Section 3.

Preventative Maintenance: Details of regular, periodic maintenance actions to ensure correct operation of the equipment.

Section 4.

Testing: Serviceability test to verify correct operation of the equipment if function is suspect or following any maintenance or servicing procedure.

Section 5.

Troubleshooting: Fault symptoms, possible causes and suggested remedial actions.

Section 6.

Servicing Instructions: Procedures for removal and installation of replaceable parts and sub-assemblies.

Section 7.

Technical Data: List of electrical and dimensional data for the equipment and components.
Instructions for safe disposal of gas springs.
Electromagnetic Compatibility (EMC) test results

Section 8.

Transportation & Storage: Information relating to transportation and storage temperatures and conditions. Charging of batteries when beds are stored for prolonged periods of time.

Section 9.

Regulatory Information: Contact details.

1. INTRODUCTION - Continued

1.2 Product Description

The Arjo Prioma Medical Bed is an electrically operated acute care medical bed. The bed has multiple functions to provide bed nursing positions for both patient and carer.

Scope

This service manual covers all Arjo Prioma Medical Bed variants.

Standard Features

- Four sectioned electrically operated profiling mattress platform with independent adjustment of backrest angle, thigh section angle and calf section angle.
- Simultaneous adjustment of backrest and thigh sections by pressing one button (Auto Contour).
- Electrically operated height adjustment.
- Electrically operated Trendelenburg and reverse Trendelenburg tilt.
- Auto (chair) seated function.
- Split drop down side rails with integrated controls.
- Removable mattress platform top covers.
- 125mm single wheel central locking castors.
- Drainage Bag rail.

Optional Features

- 125 Kick-stop brake castors
- 125 & 150mm twin wheel central locking castors
- Additional head-end brake pedals
- Base Extension & Bed Stripper
- Fold down $\frac{3}{4}$ length tubular rails
- Split side rails without integrated controls
- Underbed Light
- Battery Backup for all electrical functions
- Nurse & Patient Handsets
- Attendant Control Panels (ACP or ACOM)

1. INTRODUCTION - Continued



Figure 1: Prioma Bed

All power operated functions are operated by push button controls. Each function has separate up and down push buttons with the exception of electronic CPR and Trendelenburg functions which are a single touch control.

Depending on the bed model, the patient can control the bed via a hand-held handset or by integrated controls on the inside face of the head end split side rails. The patient's controls adjust backrest angle, leg elevation and bed height.

The care giver can control the bed via a nurse handset or integrated controls on the outside face of the head end split sides. The nurse's (outer) controls adjust backrest angle, height, calf angle, auto contour (seated position), Trendelenburg & reverse Trendelenburg, CPR position and includes a lockout function, hence operation by the patient is at the discretion of the carer.

The bed is also available with attendant control panel (ACP or ACOM) incorporating functions lockout.

The electrical actuators consist of a screw and nut assembly driven by a 24V d.c. motor and gearbox. Power for the actuators is derived from an switch mode a.c. power supplied control box located below the seat section of the bed mattress platform. The control box also houses the control electronics with the battery backup pack adjacent to it.

When the thigh section is raised, the knee-break angle between the calf and thigh sections can be changed manually. The default position is Fowler (calf section angled down) but this can be changed to vascular (calf section horizontal) by lifting the calf section.

2. DECONTAMINATION



WARNING

- Disconnect the bed from the mains power supply before carrying out cleaning procedures.
- Do not allow the mains plug or power supply cord to get wet when cleaning the bed.



- Disconnect the bed from the mains power supply before carrying out cleaning procedures.
- The following procedure also applies to the beds accessories but does not include the mattress.

2.1 Cleaning

Clean all surfaces with a disposable cloth soaked in a neutral detergent and a comfortable hot temperature for bare hands.

Mattress platform sheet tops and head/foot panels can be removed from the bed and cleaned separately.

Start by cleaning the upper sections of the bed work along all horizontal surfaces. Work methodically towards the lower sections of the bed and clean the castors last. Take extra care to clean areas that may trap dust or dirt.

Wipe over with a new disposable cloth moistened with clean water and dry with disposable paper towels. Allow the cleaned parts to dry before replacing the mattress.

2.2 Disinfecting

After cleaning the bed as described above, wipe all surfaces with sodium Dichloroisocyanurate (NaDCC) at a concentration of 1,000 parts per million (0.1%) of available chlorine.

In the case of pooling body fluids, e.g. blood, the concentration of NaDCC should be increased to 10,000 parts per million (1%) of available chlorine.



CAUTION

- Do not use abrasive compounds or pads or phenol-based disinfectant solutions.
- Do not use jet stream cleaning or wash tunnels.
- Take care not to remove lubricant from the actuator pistons.

3. PREVENTATIVE MAINTENANCE

This product has been designed to be virtually maintenance-free between service intervals. The degree of periodic maintenance required will be determined by use and condition.

The following preventative maintenance checks and procedures should be carried out every 12 months.

All service and repair activities must only be carried out by properly qualified and trained persons approved by Arjo.

Disposal of the product and its components should be compliant with local regulations.



WARNING

Before starting any maintenance activity, disconnect the bed from the mains power supply. The bed sections will still operate on battery power unless the function has been disabled on the side rails outer controls or ACP.

Avoid skin contact with lubricants. Gloves and protective clothing should be worn when carrying out maintenance work.

3.1 General

Examine the bed for obvious signs of damage. Make sure that all visible fixings/fasteners are secure and not missing.

Examine all flexible cables for cuts, abrasions, kinks or other deterioration.

Check the mains plug and cable for any signs of damage. If either the mains plug or cable is damaged, both must be replaced as a complete assembly. Under no circumstances should the integral moulded plug be replaced with a rewirable plug.

3.2 Castors and Brakes

Check the brakes for efficient operation.







Check that the steering lock operates effectively.

Poor braking or steering performance indicates that one or more castors require replacement (the castors on this product are not adjustable).

3. PREVENTATIVE MAINTENANCE - (continued)

3.3 Battery Test

Check the condition of the backup battery by carrying out the following test.

	1. Disconnect the bed from the mains electricity supply.
	2. Raise the mattress platform to maximum height.
	3. Raise the backrest and thigh sections to maximum elevation.
	4. Press and hold the CPR button. The mattress platform will flatten and lower to a mid-height position.
	5. Lower the mattress platform to minimum height.
	6. Apply maximum head down tilt (Trendelenburg).
	7. Return the mattress platform to the level position, then apply maximum foot down tilt (reverse Trendelenburg).

If this test is not completed successfully, connect the bed to mains electricity supply for at least eight hours to recharge the battery, then perform the test again. If the bed fails a second time, contact Arjo or an approved service agent.

To maintain best performance, the backup battery should be replaced every four years by an approved service agent.



CAUTION

If the bed is stored for a long period of time, it should be connected to the electricity supply for 24 hours every three months to fully recharge the backup battery, otherwise it may become unserviceable.

3. PREVENTATIVE MAINTENANCE - (continued)

3.4 Handset Checks

Patient Handset:

Between each new patient, Arjo strongly advises that Preventative Maintenance checks are conducted on the patient handset.

Nurse Handset:

Arjo strongly advises that the Nurse Handset is visually inspected for obvious damage before each use if practicable. When using a specific function staff should be aware of and be checking for any of the symptoms listed in point 3 below.

Preventative Maintenance Checks:

Arjo 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.

3.4.1 Visual Inspection of Handset Casing

- Inspect the outer plastic casing for any obvious cracks or damage.
- 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 immediately lock out the handset using the bed lockout function and report the damage to maintenance staff or replace the handset.

3.4.2 Inspection of the cable and cable insulation

- Inspect the cable for any nicks or cuts in the insulation.
- Inspect for any evidence that the cable may have been squashed/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 found with obvious damage to the cable insulation, immediately lock out the handset using the lockout function and report the damage to maintenance staff or replace the handset.

3.4.3 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 lock out the handset using the lockout function and report the damage to maintenance staff or replace the handset. Quarantine the bed and contact an Arjo approved Technician.

4. TESTING

The following serviceable tests should be performed before returning the bed to use after service, or if the function is suspect.

These instructions should be read in conjunction with the instructions for use supplied with the product.

If the result of any test is unsatisfactory, investigate and take the appropriate remedial action. Refer to section 6 (Troubleshooting) and section 6 (Servicing Instructions).

All references to left and right are when viewed from the head-end (i.e. by a patient lying on the bed and facing up)



WARNING

If any electrical assembly or wiring has been replaced or repaired, the appropriate electrical safety checks must be made.

Keep clear of the bed when it is being operated. Severe injury can result from crushing by moving parts.

4.1 Preliminary

Do the following preliminary checks before testing:

- Connect the bed to mains power supply. If necessary, reinstate all locked out functions.
- Check that no furniture or other obstruction can impede the movements of the bed.

4.2 Electrical Functions

Bed Controls

1. Check that each ACP (if fitted) operates all bed functions over the full range of movement as specified in section 7 (Technical Data). Verify that the actuators are de-energised when the control button is released, or the limit of travel is reached.
2. Check that each of the patient control operating buttons all function correctly.
3. Check that each of the nurse control units operate the backrest, Tilt, height, thigh section and Auto Contour (seated position) correctly.
4. Check that lockout functions on the nurse control and ACP (if fitted) disables the appropriate functions on all the control units.
5. With the bed in a flat or foot-down tilt position, press and hold the Trendelenburg control button on the nurse control or ACP (if fitted) and check that the bed tilts in Trendelenburg (head-down tilt) position.
6. Raise the backrest, thigh section and bed mattress platform to maximum height. Press and hold the CPR button and verify that the mattress platform returns to the flat, mid height position.
7. Check that the underbed light is illuminated whenever the bed is connected to the mains supply.

4. TESTING - Continued

Battery Operation.

Check operation of the battery by completing the steps described in section Battery Test (refer to section 3)

4.3 Manual Functions

The following tests check functions that are not electrically powered.

Brakes & Steering.

Check the brakes for efficient operation. Apply the brakes by pressing down on either one of the central locking brake levers and push the bed. None of the four braking castors should rotate.

Place the pedals in the “steer” position and verify that the tracking (steering) castor is engaged and does not swivel. The tracking castor should be placed at the head end, and on the same side as the link bar.

Split Side Rails.

Check operation of each of the four split side rail sections. Verify that the release and latching mechanism are effective and that the sides are securely locked when raised. Also, check that sides drop down in a controlled manner when locking mechanism is released.

Base Extension.

Check that the base extension extends and retracts smoothly and easily. Make sure that release handle and catch bar operate easily and that the extension locks securely in both extended and retracted positions.

Bed Stripper (linen Rack).

Check that the linen rack extends and retracts smoothly and easily.

Emergency CPR Release.

Use the bed controls to raise the backrest to about 45°. Operate either CPR release lever to verify that the backrest quickly descends to a horizontal (flat) position in a smooth, controlled manner. Check that both CPR release handles operate correctly.

Manual Calf Section.

Use the bed controls to fully raise the thigh section. Holding the Calf section by the mattress keep handle (found on either side of the bed), slowly lift as the section will incrementally click and lock into position if released. To lower the calf section back down, lift the calf section all the way up and the ratchet system will release allowing the calf section to be lowered down to the neutral position.

5. TROUBLE SHOOTING

5.1 Fault Finding

The following table identifies some fault symptoms, possible cause(s) and suggested remedial action.

Symptom	Possible Cause	Remedial Action
All actuators inoperative	Functions locked on nurse control panel or ACP.	Unlock functions
	Power disconnected and backup battery discharged.	Connect the power cable to a suitable mains power supply outlet
	Fuse blown and backup battery discharged.	Call Arjo Service department
	Roving handset, control panel or ACP disconnected.	Check all cable connections between control units, junction box and control box.
One actuator inoperative	Actuator cable disconnected or faulty.	Check cable connection into control box and actuator. Check for faulty cable.
Main lift actuators fail to operate and an audible beeping sound can be heard when handset is activated	Control Box requires calibrating possibly due to bed being operated on backup power, when batteries were fully discharged.	Ensure bed is connected to mains power supply and carry out calibration procedure.
Brake and/or steering lock not effective	Worn or damaged castor(s) or brake pedal	Replace castor or brake pedal.
Backrest Emergency CPR not effective	Release mechanism not properly adjusted	Check and re-adjust

5. TROUBLE SHOOTING - (continued)

5.2 Fault Indications - Could be Flashing LEDs or Audible Warnings.

The bed's control software can detect and indicate faults with the electrical system by means of audible beeps and flashing LEDs.

Audible Warnings.

POSITION LOST on an actuator is indicated via an intermittent beep 200msec ON / 200msec off.

Try the RESET/CALIBRATION procedure and in turn run all functions. If problem persists, locate faulty actuator or cable.

FATAL ERROR is indicated via an intermittent beep 50msec ON / 500msec OFF.

Try the RESET/CALIBRATION procedure and then in turn run all functions. If problem persists, locate faulty actuator/cable and replace as required.

HOOT is indicated by a constant beep.

Try the RESET/CALIBRATION procedure and then in turn run all functions. If problem persists, locate faulty actuator/cable and replace as required.

BATTERY LOW is indicated by a 50msec beep when a function is activated.
Charge or replace the battery.

OVERHEATING is indicated by a single 5 second beep when a function is activated.
Allow the system to cool down before operating.

Flashing LED Warning.

Flashing LEDs on nurse control panel (side rail outer side) and Attendant Control Panel (ACP) or Attendant Control OpenBus Mini Panel (ACOM) indicate a fatal error.
Trouble shoot problem and replace faulty component.

Reset by pressing HiLo Up and Down buttons simultaneously until beeping sound stops.

5.3 Calibration

Although highly unusual, it is possible that long use in service may result in lost position (non-parallelism) of the height actuators, as a result of which the bed may not return to a true horizontal position. This may be automatically corrected by driving the bed to its maximum height. If this is not effective, the condition can be rectified by the recalibration procedure described below.

In the case of a main lift actuator or cable requiring replacement it is imperative that the system is re-calibrated as described below.

Procedure

- a) Ensure that the bed is connected to the mains power supply.
- b) Adjust the bed to approximately mid height position.
- c) Simultaneously press HILO UP and DOWN keys on the handset until the system stops beeping. Please note that the two keys must be activated at exactly the same time.
- d) Calibrate the Lifting / HILO actuators by running HILO UP until both actuators are fully extended (bed is at its highest point).
- e) Hold the button for approximately 1 second after the actuators have stopped.
- f) Note: Backrest and Knee break actuators do not require calibrating.

6. SERVICING INSTRUCTIONS



WARNING

Before starting any service or maintenance procedures, ensure that the equipment has been adequately decontaminated.

Avoid contact with lubricants. Rubber gloves and protective clothing should be worn when carrying out maintenance work.

The bed and its sub-assemblies are heavy and could cause serious injury or death by crushing. When working beneath the mattress platform, the equipment must be properly supported with suitable lifting devices, blocks or stands.

Use only replacement parts that are approved by Arjo.

Use only parts listed in this manual; similar parts from other Arjo products may not be compatible.

If single use fasteners are removed, they should always be replaced with new parts.



CAUTION

After replacing any cable or actuator, check that none of the cables are kinked, strained or pinched. Adjust the cables to remove any slack that could become entangled in the bed mechanism. Verify that these conditions are maintained over the full range of movement of the bed sections.

Do not allow electrical components to come in contact with aggressive chemical agents, e.g. cutting oil.

6.1 General

The servicing procedures given in this section include instructions for:

- Replacement of specific components and sub-assemblies
- Dismantling and assembly of the main structure
- Restoration of paint finish

Procedures which are considered to be self-evident have not been included.

Do not disassemble more than is necessary to replace a defective item.

Remove old Loctite and other adhesives from components before re-assembly. Apply Loctite 270 to screw threads on assembly of items as specified. Before applying Loctite, clean and degrease both internal and external screw threads using a suitable volatile solvent e.g. methylated spirits.

Apply grease to bushes and joints on assembly of items as specified.

To facilitate access for carrying out servicing procedures, remove the mattress platform top covers and head and foot panels from the bed.

6. SERVICING INSTRUCTIONS - Continued

All references to left or right of the bed are when viewed from the head end or by patient lying on the bed.

Always refer to the appropriate diagram and parts list to identify component Part Numbers.

Before returning the equipment to use following repairs or servicing:

- Carry out a visual inspection for signs of damage, paying particular attention to cables and paintwork.

Perform a serviceable test as described in the (Testing) section of this manual.

Clean the equipment as described in the (Decontamination) section of this manual.

Product Identification

Bed model number REF and serial number SN can be located on the bed mattress platform frame just below the foot panel on the left hand side.

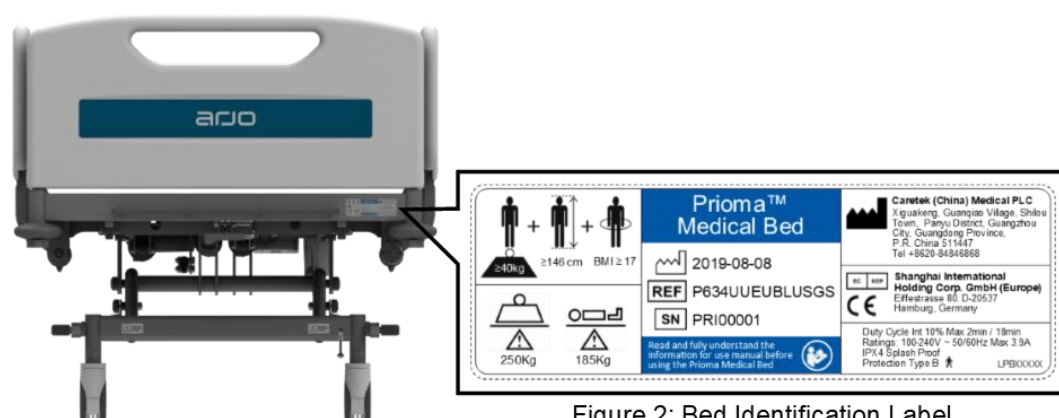
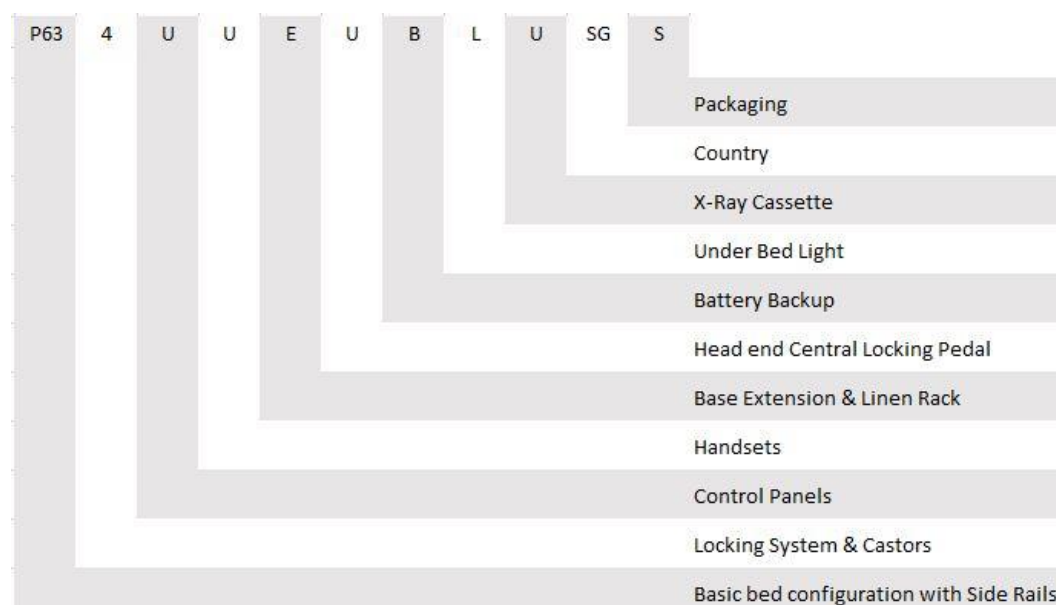


Figure 2: Bed Identification Label

The bed configuration and optional features can be identified by the bed reference number shown on the identification label. Shown below, is an example breakdown of the reference numbering system used.

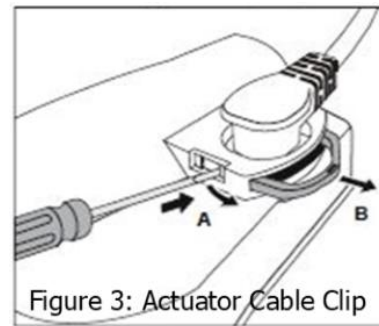


6. SERVICING INSTRUCTIONS - Continued

Actuator Cable Clips

Cable connections to actuators are held in place by retaining clips as shown in Figure 3.

To release the clip, insert a small screwdriver through slot (A) on either side of the socket and press in the retaining lugs and pull the clip out (B).



Sealing Rings

For cable connections to Actuators, Junction Boxes or the Control Box, the plug has a rubber sealing ring to ensure the connection remains watertight.

Apply a small amount of lubricant, e.g. petroleum jelly, to the sealing rings to make it easier to insert the plugs. Do not allow excess lubricant to contaminate the electrical contacts.

6.2 Tools and Equipment

In addition to normal workshop tools, the special tools and equipment listed below will be required for servicing.

- Lifting Hoist Minimum SWL 225 kg
- Sling straps (2)
- Electrical safety test equipment compliant with EN60601-1:2006 (earth bonding test)

When using a hoist to lift any part of the bed, always ensure that the sling straps are applied to main frame sections and do not bear upon components or minor fabrications.

Always ensure that the Hoist manufacturer's instructions/user guides are followed.

It is essential that a Risk Assessment is conducted by an appropriately qualified and competent person to ascertain if the Hoist is appropriate to use as described in this manual. **DO NOT** use the hoist if it is deemed a possible risk.

When lifting the entire bed or the deck assembly, first remove all deck sheets and lift equally at the head and the foot end of the bed. Sling straps should be located around the main longitudinal members of the deck frame.

6. SERVICING INSTRUCTIONS - Continued

6.3 Electrical Assembly

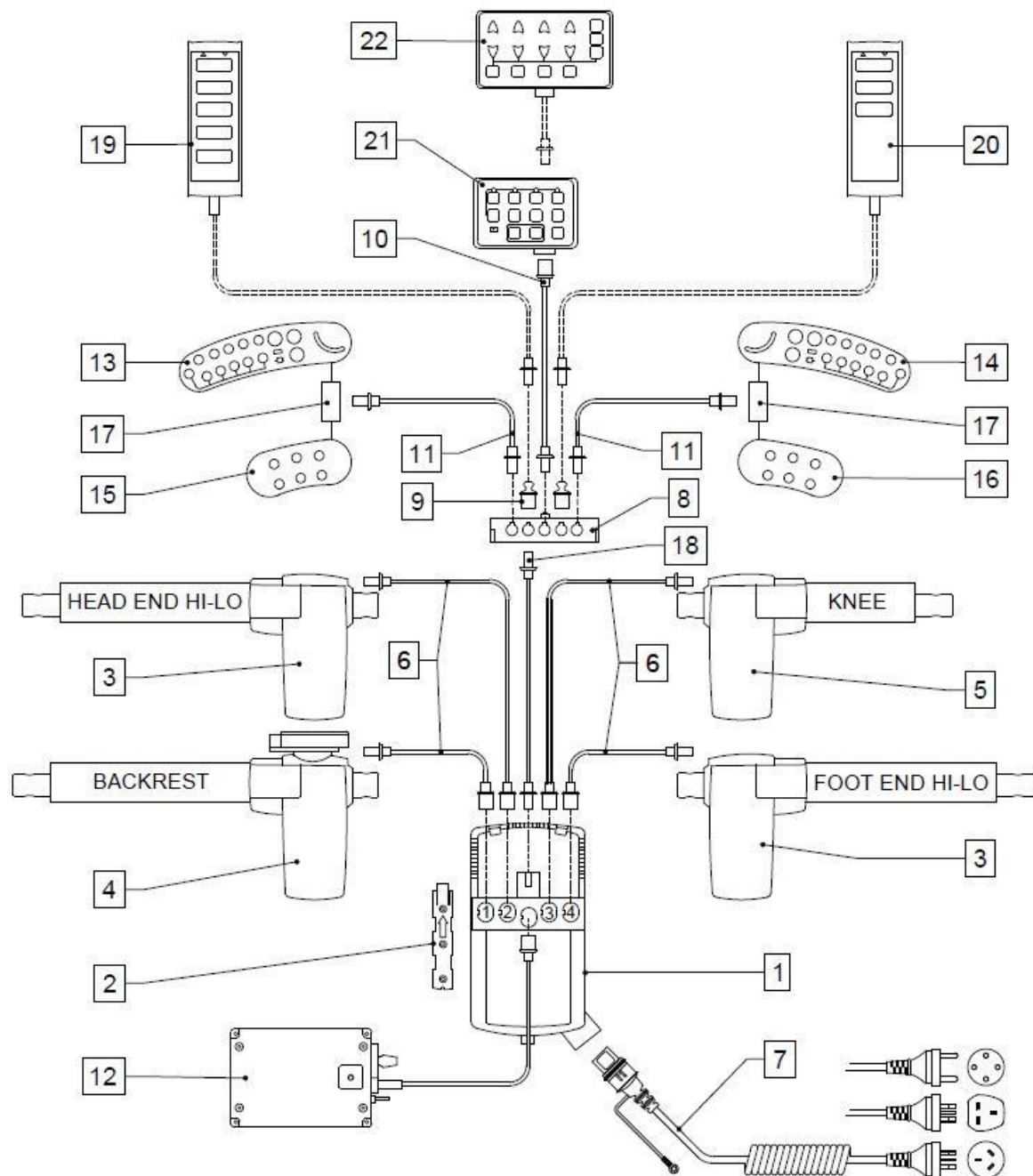


Figure 4: Electrical Assembly (including options)

6. SERVICING INSTRUCTIONS - Continued

6.4 Electrical Assembly Parts List

Item	Part Number	Description	Qty
1.1	C0610022-00	C061 Control Box (if bed <u>not fitted</u> with ACP unit)	1
1.2	C0615268-00	C061 Control Box (if fitted with ACP unit)	1
2	1015W1001-A	Fixing Plate for Control Box	1
3	270439-00	LA27 Hi-Lo Actuator	2
4	J18110	LA27 Quick Release Backrest Actuator	1
5	LA27-C533-01	LA27 Knee Break Actuator	1
6	0968000-0850	Actuator Connect Cable	4
7	See Below Table	Power Mains Cable (country specific)	1
8.1	MJB0005000-1023	Junction Box – (no under bed light) (5 Port)	1
8.2	MJB5050120-00	Junction Box – (with under bed light) (5 Port)	1
9	0821008	Junction Box Plug	2
10	0964862	Control Connect Cable	1
11	0965808-A	Side Rail Control Connect Cable	2
12	KB19004-102	Battery Back-Up Unit	1
13	10ACK0171-B	Head End Side Rail Nurse Side Control Panel-LH	1
14	10ACK0172-B	Head End Side Rail Nurse Side Control Panel-RH	1
15	10ACK0174	Head End Side Rail Patient Side Control Panel-LH	1
16	10ACK0176	Head End Side Rail Patient Side Control Panel-RH	1
17	10MACK301-00C1005	PCB for Side Rail Control Panel	2
18	0964461-0800	Control Box to Junction Box Cable	1
19	HB70-c123-00	Nurse Handset	1
20	KH21076-00	Patient Handset	1
21	ACC610001-B0000	Attendant Control Panel (ACP)	1
22	ACOM013-01	Attendant Control OpenBus Mini Panel	1

Country	Part No.	Description	Unit
Australia	SML912324	Type I, Australian 3-pin plug, orange curly cord, external earth wire	1
Brazil	SML912477-B	Type N, Brazil 3-pin plug, with external earth wire	1
Croatia	SML912474-B	Type E/F, European plug, 2 pins, with external earth wire	1
Greece	SML912474-B	Type E/F, European plug, 2 pins, with external earth wire	1
India	SML912479-B	Type D/M, Old British 3-pin plug, with external earth wire	1
Mexico	SML912372	Type B, US 3 pin-plug, with external earth wire	1
New Zealand	SML912324	Type I, Australian 3-pin plug, orange curly cord, external earth wire	1
Philippines	SML912372	Type B, US 3 pin-plug, with external earth wire	1
Singapore	SML912475-B	Type G, British 3-pin plug, with external earth wire	1
South Africa	SML912479-B	Type D/M, Old British 3-pin plug, with external earth wire	1
South Korea	SML912474-B	Type E/F, European plug, 2 pins, with external earth wire	1
Thailand	SML912372	Type B, US 3 pin-plug, with external earth wire	1
UAE	SML912475-B	Type G, British 3-pin plug, with external earth wire	1
United Kingdom	SML912475-B	Type G, British 3-pin plug, with external earth wire	1

6. SERVICING INSTRUCTIONS - Continued

6.5 Undercarriage Assembly

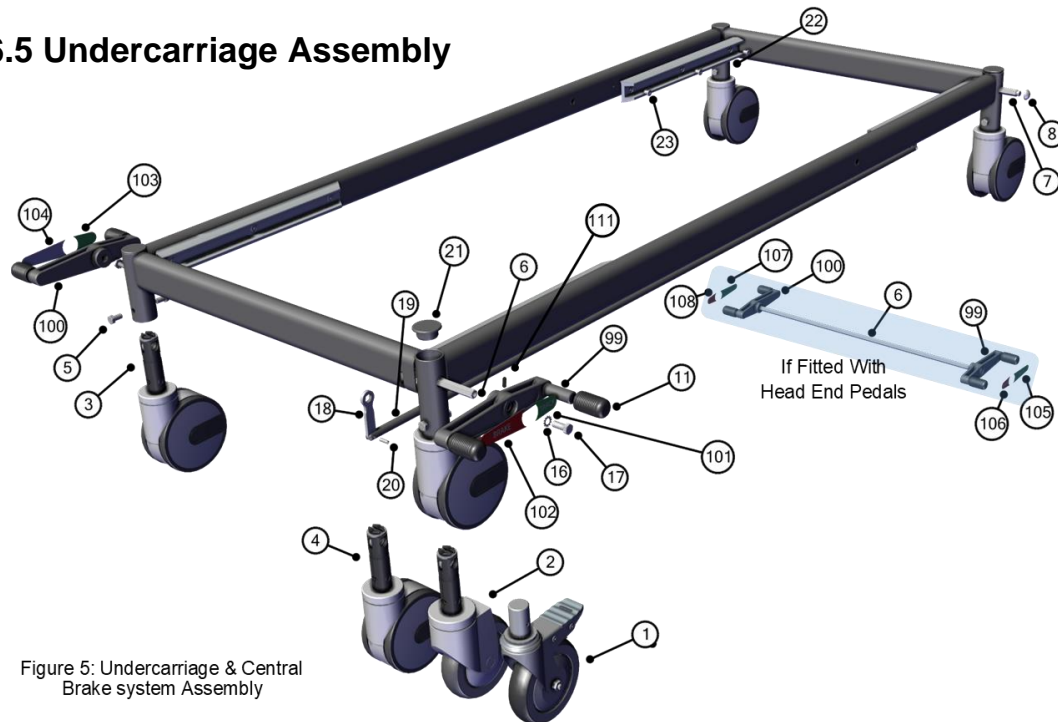


Figure 5: Undercarriage & Central Brake system Assembly

No.	Part No.	Description	Unit
1	1677PJP125R05-9002	Tente 125mm Total Locking Castor	1
2	2076PJP125R26-28S45	Tente 125mm Single Central Locking Castor (Brake)	1
2.1	2074PJP125R26-28S45	Tente 125mm Single Central Locking Castor (Steer)	1
3	1946PJP125R26-28S45	Tente 125mm Twin Central Locking Castor (Brake)	1
3.1	1944PJP125R26-28S45	Tente 125mm Twin Central Locking Castor (Steer)	1
4	1946PJP150R26-28S45	Tente 150mm Twin Central Locking Castor (Brake)	1
4.1	1944PJP150R26-28S45	Tente 150mm Twin Central Locking Castor (Steer)	1
5	S0108947	M8 x 15 Z/P Hex Head Bolt	1
6	G420-A2-1-2-Z-BE	Head End Hexagon Central Lock Shaft	1
7	G420-A2-1-3-Z-BE	Foot End Hexagon Central Lock Shaft	1
8	S0400000	10mm I.D Chrome Ratchet Cap	1
11	C380-2-05	Brake Pedal Rubber Shoe	1
16	S0308018	8mm I.D Z/P Washer	1
17	S0105123	M8 x 20 Z/P Hex Head Bolt	1
18	C380-2-02-Z-BE	Central Lock Link Rod Plate	1
19	G420-04-23	Central Lock Link Rod	1
20	S0003014	M5 x 16 Z/P Selock Pin	1
21	S0000049-G	38mm Round Plastic End Cap	1
22	C380-1-05	Aluminium Crank Roller Channel	1
23	S0411015	M8 x 10 Flat Head Rivet	1
99	P600-1-1L-S-SL	Two Arm Cast Aluminium Pedal 45° LH	1
100	P600-1-1R-S-SL	Two Arm Cast Aluminium Pedal 45° RH	1
101	P600-T-1L	Brake Pedal Track Label (Left Hand Foot)	1
102	P600-B-1L	Brake Pedal Brake Label (Left Hand Foot)	1
103	P600-T-1R	Brake Pedal Track Label (Right Hand Foot)	1
104	P600-B-1R	Brake Pedal Brake Label (Right Hand Foot)	1
105	G420-P6F2-2-2	Brake Pedal Track Label (Left Hand Head)	1
106	G420-P6F2-2-1	Brake Pedal Brake Label (Left Hand Head)	1
107	G420-P6F2-2-4	Brake Pedal Track Label (Right Hand Head)	1
108	G420-P6F2-2-3	Brake Pedal Brake Label (Right Hand Head)	1
111	S01006010	M6 x 10 Grub Screw	1

6. SERVICING INSTRUCTIONS - Continued

6.6 Crank & Crank Stabiliser Assemblies

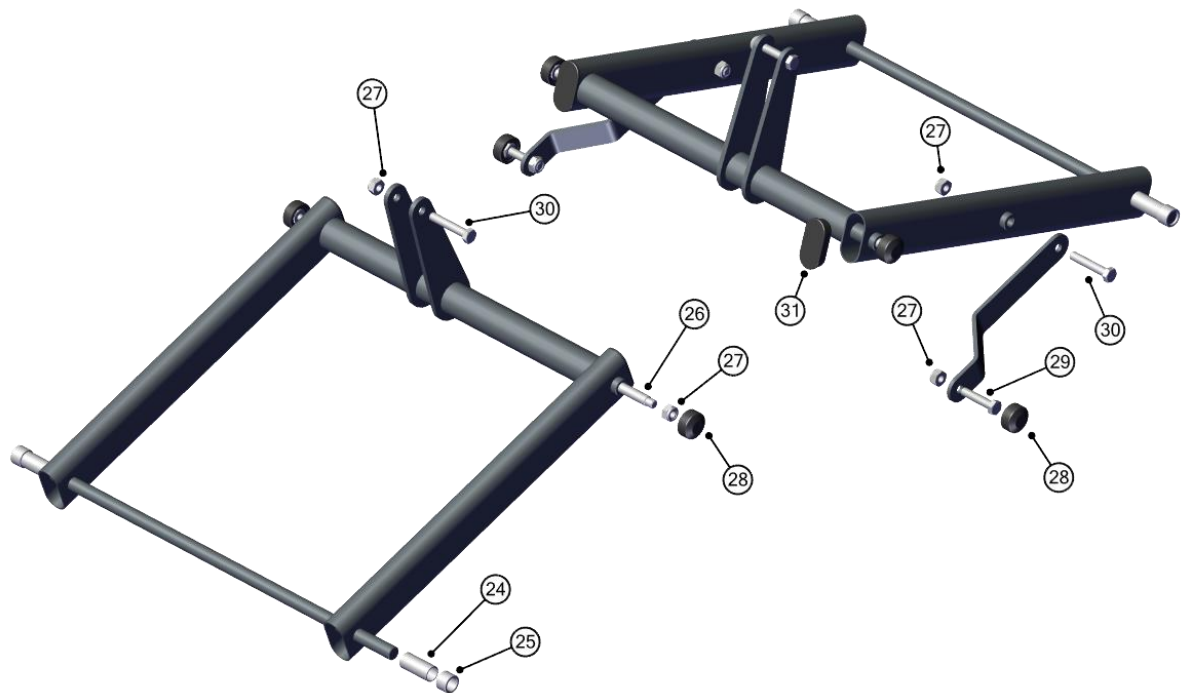


Figure 6: Crank & Crank Stabiliser Assemblies

Item	Part Number	Description	Qty
24	G420-A2-3-2-Z-BE	Crank Roller Bearing Spacer Bush	4
25	S0000095	Crank Roller Bearing	4
26	C380-3-6-Z-BE	Crank to Deck Assembly Axle	2
27	S0205016	M10 NYLOC Lock Nut	8
28	C380-1-11-G	M10 Plastic Nut Cover	4
29	S0200032	M10 x 45 Z/P Hex Head Bolt	2
30	S0108163	M10 x 55 Z/P Hex Head Bolt	2
31	S0034005-G	60 x 30mm Oval Plastic End Cap	8

6. SERVICING INSTRUCTIONS - Continued

6.7 Base Frame / Mattress Platform Assembly

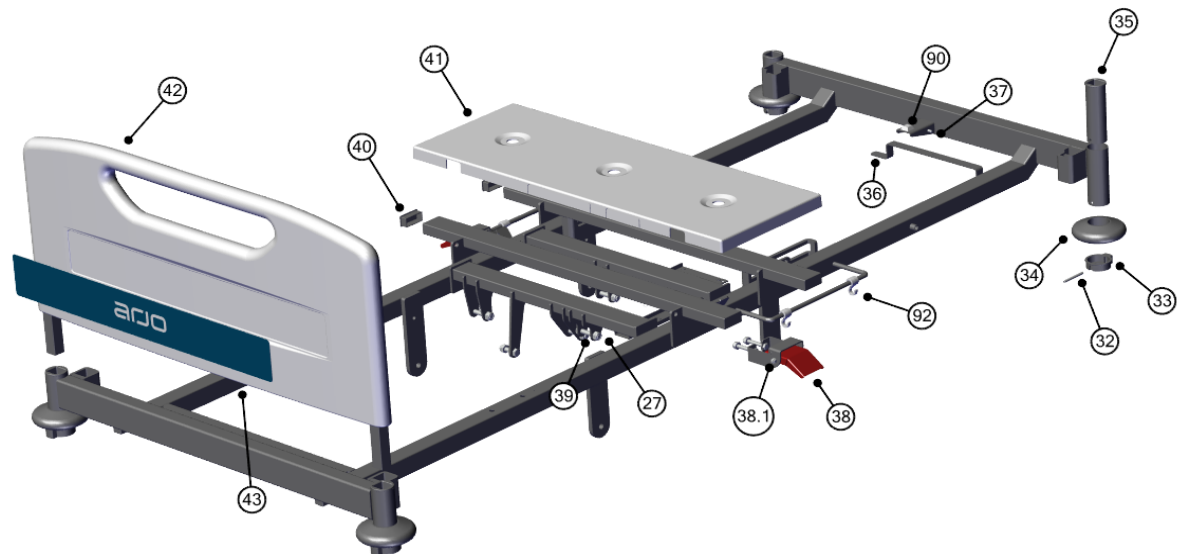


Figure 7: Base / Mattress Platform Assembly

Item	Part Number	Description	Qty
27	S0205016	M10 NYLOC Lock Nut	4
32	805-16-Z-BE	M5.5 x 60 Z/P Selock Pin	4
33	805-15-GR	Plastic Head & Foot Panel Tube Adapter Lock Cap	4
34	C380-4-6-G-1	Urethane Roller Buffer	4
35	805-14-GR	Plastic Head & Foot Panel Tube Adapter	4
36	6923-G-WEAU	Mains Power Cable Storage Bracket	1
37	731-31-Z-BE	Equipotential Earthing Screw	1
38	G420-A2-7-L-ASM	CPR Quick Release Assembly LH (includes long cables)	2
	G420-A2-7-R-ASM	CPR Quick Release Assembly RH (includes short cables)	
38.1	C-4DS-16-Z-BE	CPR Release Machined Pivot Axle	2
39	S0108163	M10 x 50 Z/P Hex Head Bolt	4
40	S0000006	50 x 25 Plastic End Cap	4
41	C380-CHXS-03Z	ABS Thigh & Seat Section Cover	1
42	G420-E3-5-ASM	Head & Foot Panel Assembly (including infill)	2
43	G420-E3-5-1	Arjo Blue Foot Panel Infill (with Arjo logo)	1
	G420-E3-5-2	Arjo Blue Foot Panel Infill (no logo)	1
90	S0422001	Back Rest Rubber Stop	1
92	C-T-0003-GR	Plastic Moulded Bag Hook	4

6. SERVICING INSTRUCTIONS - Continued

6.8 Backrest & Backrest Retraction Assembly

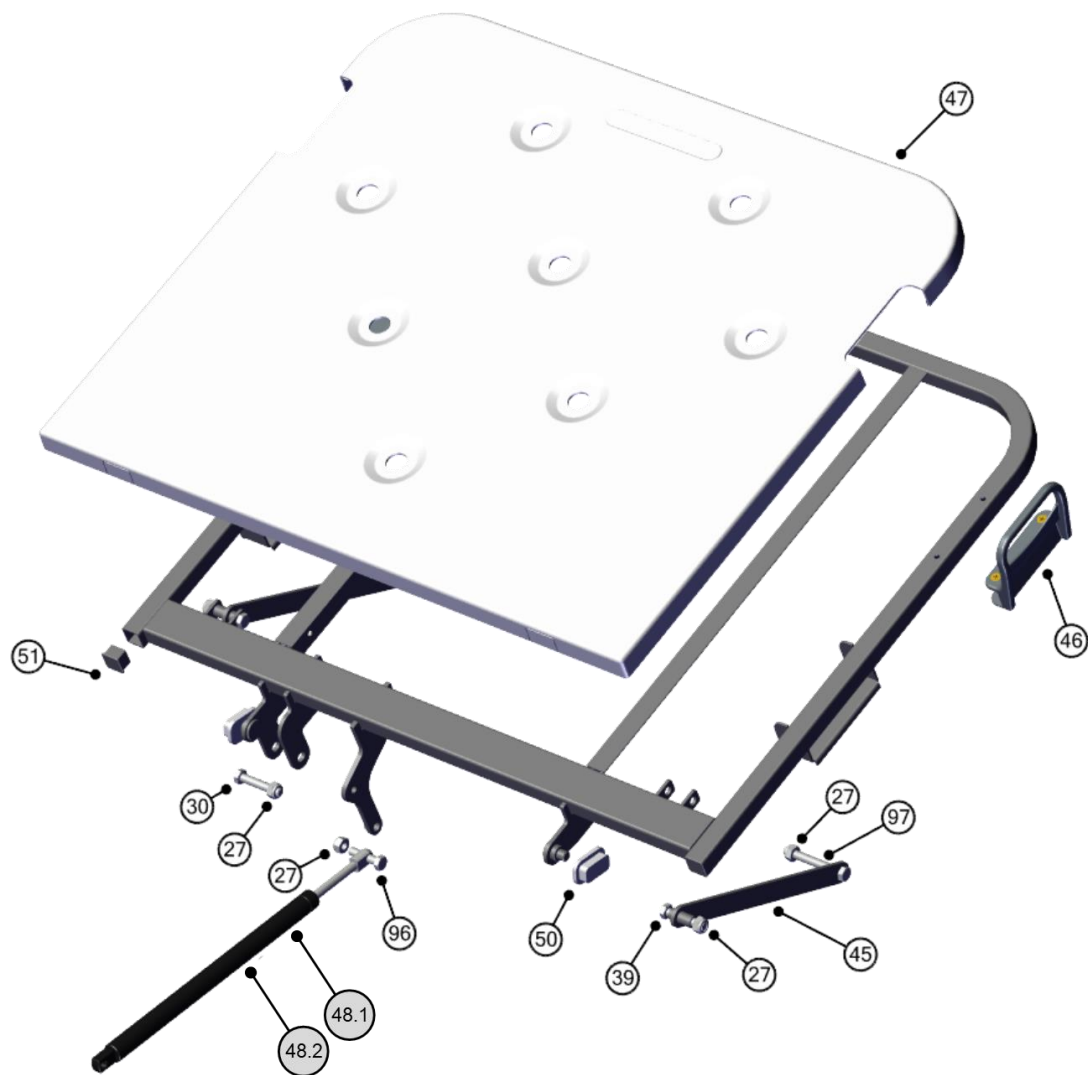


Figure 8: Backrest & Backrest Retraction Assemblies

Item	Part Number	Description	Qty
27	S0205016	M10 NYLOC Lock Nut	4
30	S0108163	M10 x 55 Z/P Hex Head Bolt	2
44	S0108956	M10 x 95 Z/P Hex Head Bolt	2
45	C-4DL-QF-11-G-ASM	Backrest Retraction Arm Assembly	2
46	C380-10-9-G-ASM	Mattress Retainer Kit	Kit
47	C380-CHXS-04Z	ABS Back Rest Panel Assembly Cover	1
48.1	336072	Prioma 500 & 600 Gas Damper	1
48.2	813-128-G420	Prioma 400 Gas Damper	1
50	C380-10-8	Plastic Back Rest Slide	2
51	P0000143	25 x 25 Plastic End Cap	2
96	S0208054	M10 x 40 Z/P Hex Head Bolt	1
97	S0205023	M10 x 80 Z/P Hex Head Bolt	1

6. SERVICING INSTRUCTIONS - Continued

6.9 Thigh & Foot Section Assemblies

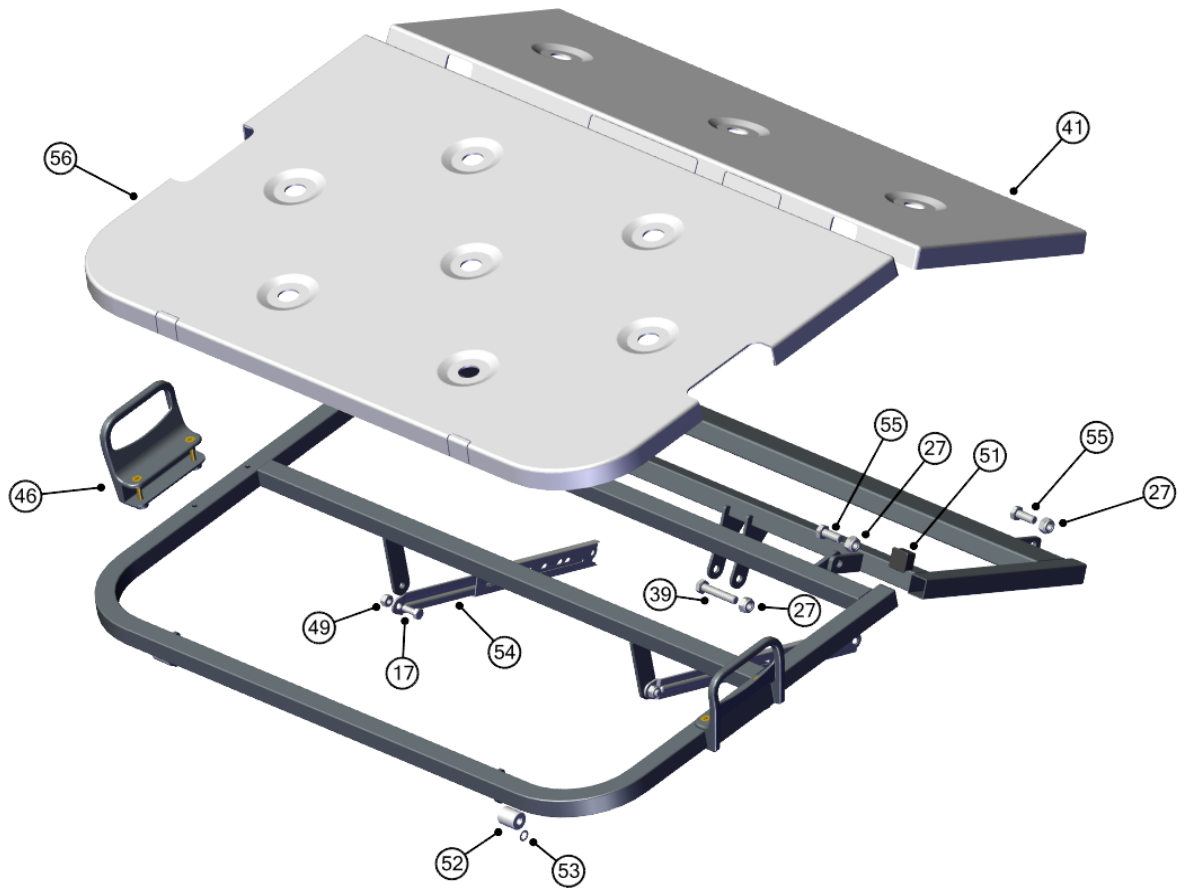


Figure 9: Thigh & Foot Section Assemblies

Item	Part Number	Description	Qty
17	S0106009	M8 x 20 Z/P Hex Head Bolt	2
27	S0205016	M10 NYLOC Lock Nut	5
39	S0108163	M10 x 50 Z/P Hex Head Bolt	1
41	C380-CHXS-03Z	ABS Thigh & Seat Section Cover	1
46	C380-10-9-G-ASM	Mattress Retainer Kit	Kit
49	S0205015	M8 NYLOC Lock Nut	2
51	P0000143	25 x 25 Plastic End Cap	6
52	C-380-13-1	Plastic Foot Panel Roller	2
53	P0003002	Plastic Roller Star Lock Washer	2
54	DF10Y10 (R) DF10Z10 (L)	6 Notch Rastomat System Left & Right Units	2
55	S0200030	M10 x 25 Z/P Hex Head Bolt	4
56	C380-CHXS-01Z	ABS Foot Panel Assembly Cover	1

6. SERVICING INSTRUCTIONS - Continued

6.10 Base Extension & Linen Rack Assemblies

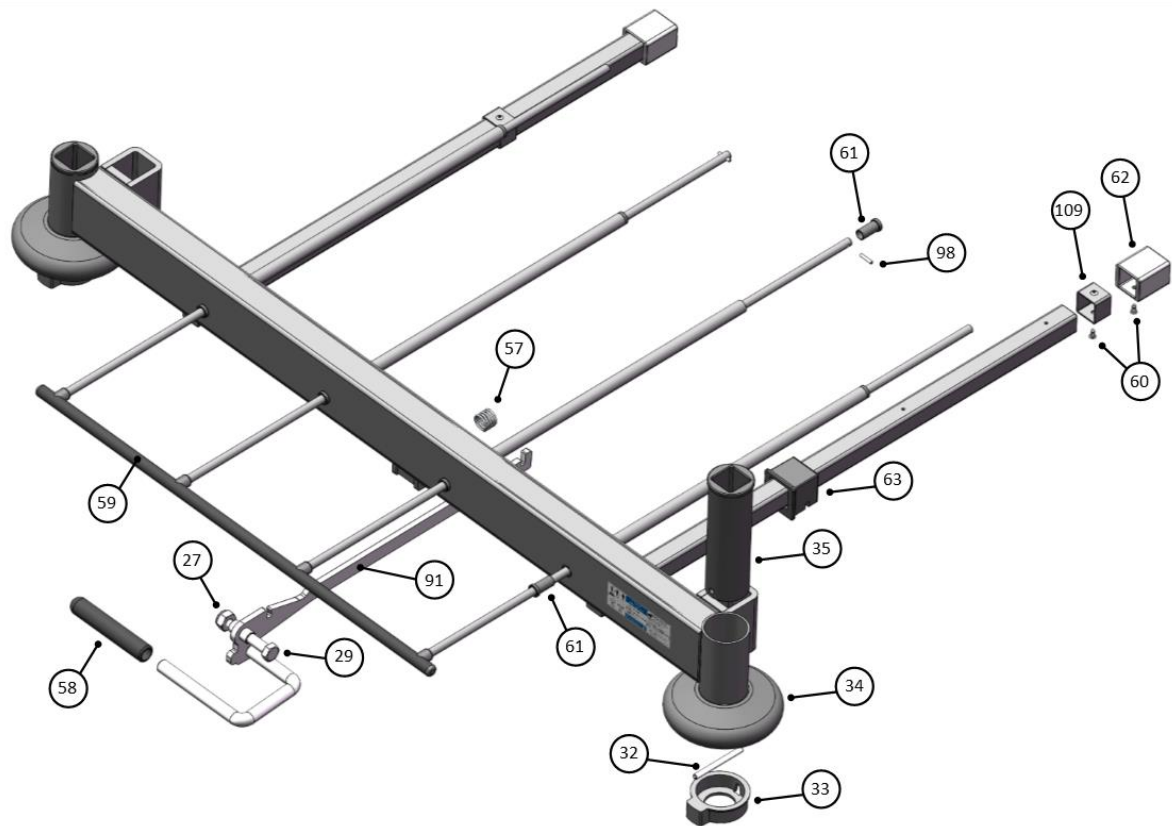


Figure 10: Base Extension & Linen Rack Assembly

Item	Part Number	Description	Qty
27	S0205016	M10 NYLOC Lock Nut	1
29	S0200032	M10 x 45 Z/P Hex Head Bolt	1
32	805-16-Z-BE	M5.5 x 60 Z/P Selock Pin	2
33	805-15-GR	Plastic Head & Foot Panel Tube Adapter Lock	2
34	C380-4-6-G-1	Urethane Roller Buffer	2
35	805-14-GR	Plastic Head & Foot Panel Tube Adapter	2
57	S1603000-Z-BE	Base Extension Lock Plate Compression	1
58	805-44	Base Extension Release Lever Handle Sleeve	1
59	P600-YCJ-3-ASM	Linen Rack Assembly	ASM
60	S0108127	3.5mm x 6mm Pop Rivet	2
61	C380-14-2	Linen Rack Plastic Slide Bush	4
62	C380-14A-X-3	Base Extension Plastic Internal Slide	2
63	C380-14A-X-4	Base Extension Plastic Glide Bush	2
91	G420-04-18-Z-BE	Base Extension Lock Plate	1
98	S0000067	M3 x 15 Z/P Selock Pin	2
109	C380-14A-X-2	Base Extension Internal Stop Tube	2

6. SERVICING INSTRUCTIONS - Continued

6.11 Fold Down Tubular $\frac{3}{4}$ Rail Assembly

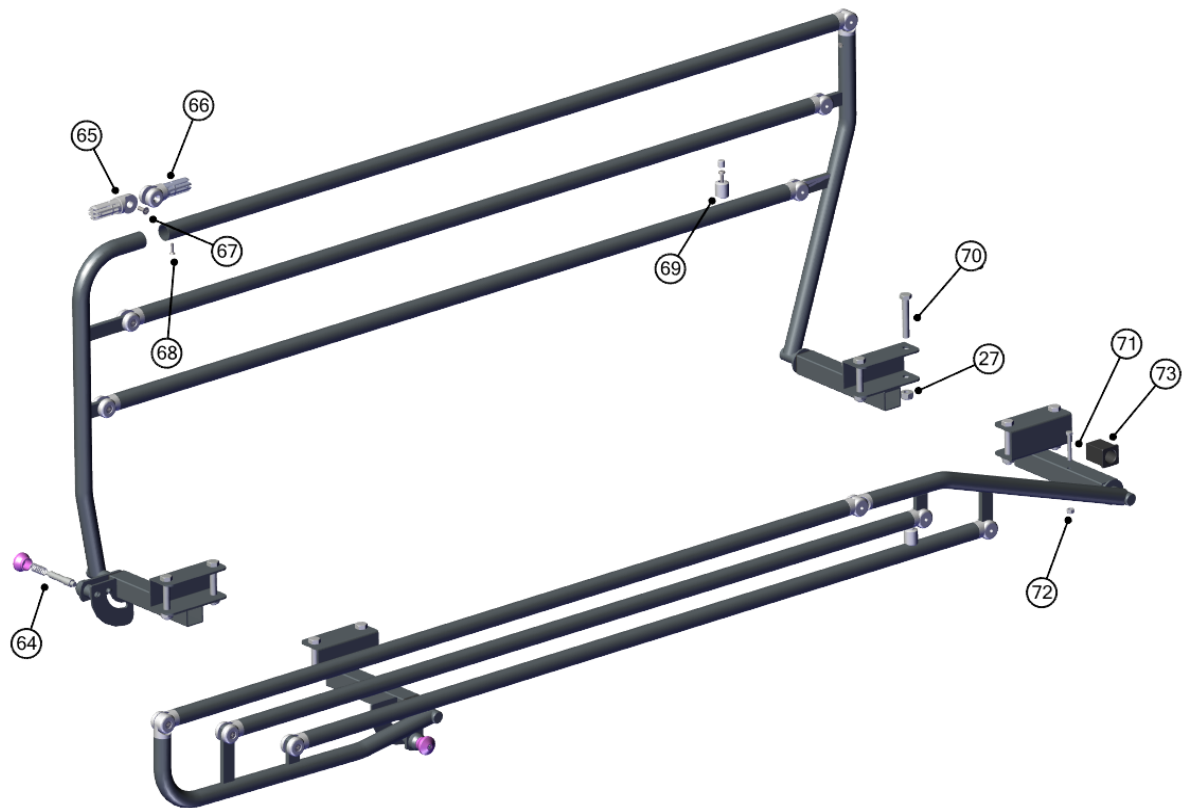


Figure 11: Fold Down Tubular $\frac{3}{4}$ Rail Assembly

Item	Part Number	Description	Qty
27	S0205016	M10 NYLOC Lock Nut	8
64	788-915-P-RD	Rail Release Knob, Pin and Spring Kit	2
65	805-187	Male Plastic Rail Hinge	4
66	805-186	Female Plastic Rail Hinge	12
67	S0108411	M6 x 12 Z/P Flat Head Countersunk Screw	12
68	S0108412	M4 x 12 Z/P Flat Head Countersunk Screw	16
69	823-471 / 823-472	Rail Nylon Stop Kit (main body, screw and top	2
70	S0205008	M10 x 60 Z/P Hex Head Bolt	8
71	S0108808	M6 x 40 Z/P Hex Head Bolt	4
72	S0200027	M6 NYLOC Lock Nut	4
73	820-61	Rail Mount Bracket Plastic Pivot Bush End Cap	4

6. SERVICING INSTRUCTIONS - Continued

6.12 Split Side Rails - Head End

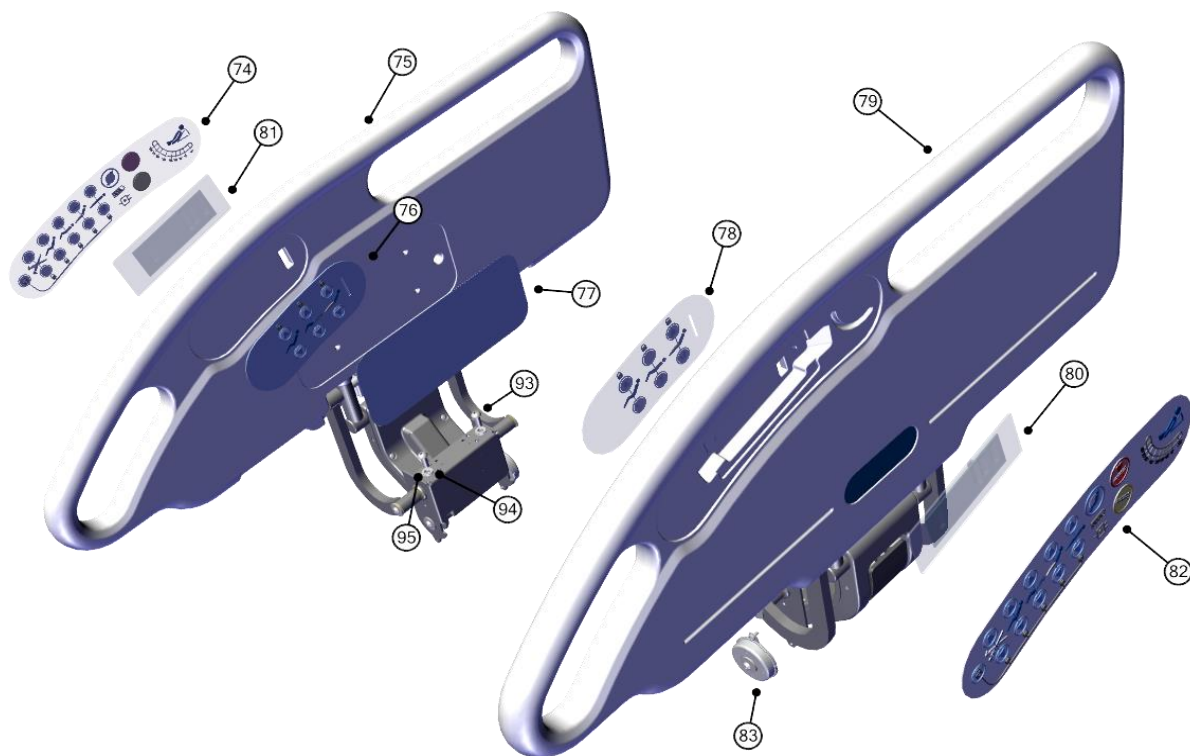


Figure 12: Split Side Rails – Head End Assembly

Item	Part Number	Description	Qty
74	10ACK0172-B	Nurse Control Panel Overlay (right hand)	1
75	EU-02	HDPE Blow Moulded Head Panel (right hand)	1
76	10ACK0176	Patient Control Panel Overlay (right hand)	1
77	STR09-0025	Drop Down Split Rail Internal Plastic Cover	2
78	10ACK0174	Patient Control Panel Overlay (left hand)	1
79	EU-01	HDPE Blow Moulded Head Panel (left hand)	1
80	10MACK301-00C1005	Control Panel PCB (runs both nurse & patient	2
82	10ACK0171-B	Nurse Control Panel Overlay (left hand)	1
83	C-4DS-5-08	Drop Down Split Rail Mechanical Damper Kit	2
93	Y0000804	M8 X 15 Button Head Screw	4
94	S0308018	M8 ID ZP Washer	4
95	S0308016	M8 ID ZP Spring Washer	4
110	P5F-1-1 (not shown)	P500 Head End Split Panel Infill (White L/R)	2

6. SERVICING INSTRUCTIONS - Continued

6.13 Split Side Rails - Foot End Short

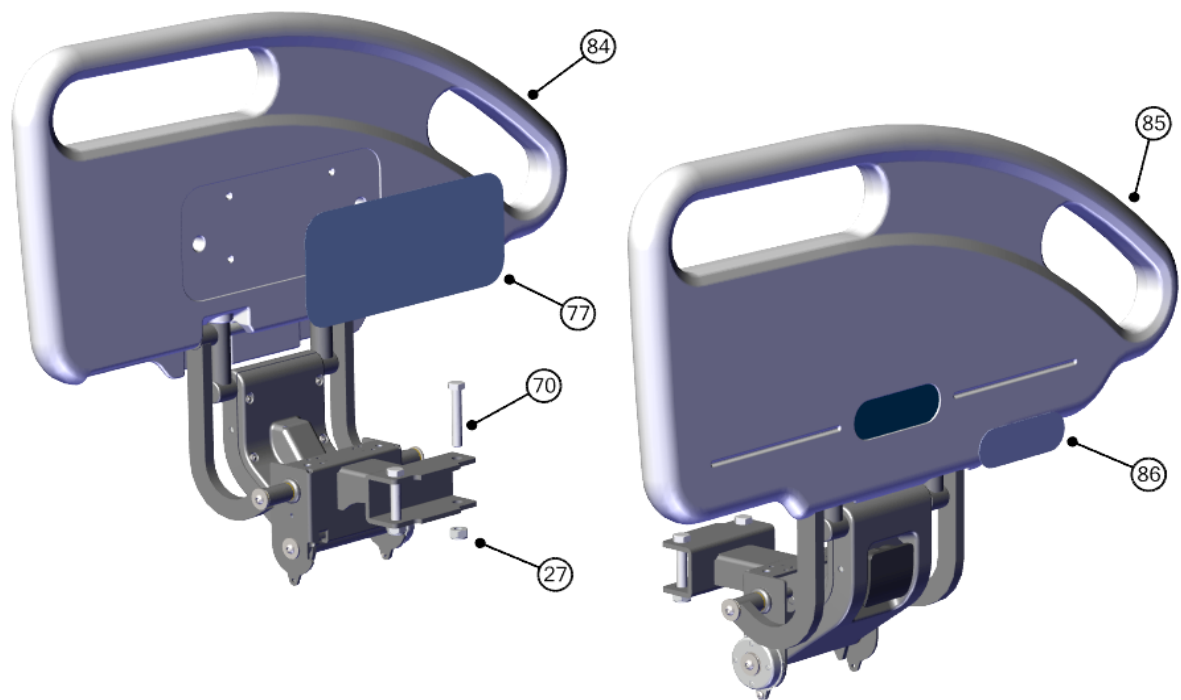


Figure 13: Split Side Rails – Foot End Short Assembly

Item	Part Number	Description	Qty
27	S0205016	M10 NYLOC Lock Nut	4
70	S0205008	M10 x 60 Z/P Hex Head Bolt	4
77	STR09-0025	Drop Down Split Rail Internal Plastic Cover	2
84	EU-04	HDPE Blow Moulded Foot Short (3/4) Panel	1
85	EU-03	HDPE Blow Moulded Foot Short (3/4) Panel	1
86	G420-E3-10-2	Head & Foot Panel Aesthetic Infill	2

6. SERVICING INSTRUCTIONS - Continued

6.14 Split Side Rails - Foot End Long

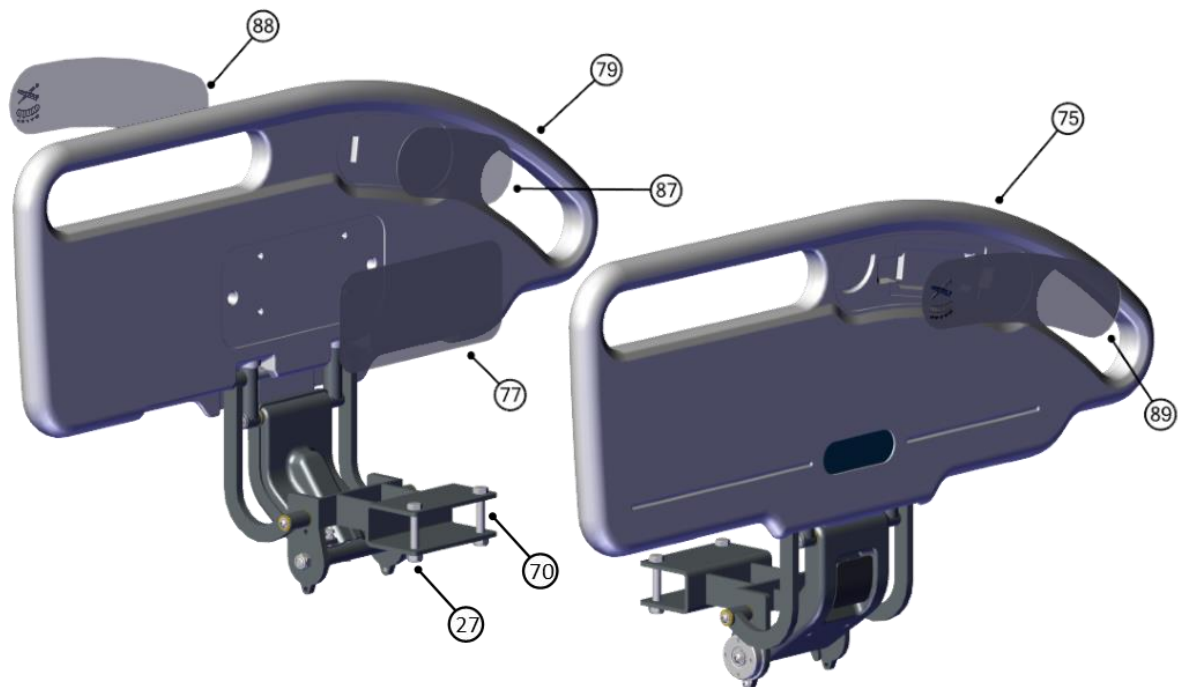


Figure 14: Split Side Rails – Foot End Long Assembly

Item	Part Number	Description	Qty
27	S0205016	M10 NYLOC Lock Nut	4
70	S0205008	M10 x 60 Z/P Hex Head Bolt	4
75	EU-02	HDPE Blow Moulded Head Panel (right hand)	1
77	STR09-0025	Drop Down Split Rail Internal Plastic Cover	2
79	EU-01	HDPE Blow Moulded Head Panel (left hand)	1
87	G420-E3-11-2	Foot End Full Length Panel Internal Plastic Infill	2
88	G420-E3-12-1R	Foot End Full Length Panel Angle Indicator Overlay (RH)	1
89	G420-E3-12-1L	Foot End Full Length Panel Angle Indicator Overlay (LH)	1

6. SERVICING INSTRUCTIONS - Continued

6.15 Brake / Steer Pedal Replacement (Refer Figure 5.)

Removal:

- a) Raise the mattress platform to maximum height.
- b) Position the bed so that all the castors are lined up in the same direction and apply the brakes.
- c) Unscrew pedal retaining M8 hexagon head bolt (17) and remove M8 Washer (18).
- d) Slide the Brake Pedal (10) off the hexagon shaft.

Installation:

- a) Check that replacement pedal is fitted with correct side brake & steer labels (12/13 or 14/15) and that both rubber shoes (11) are fitted.
- b) Slide the pedal (10) over hexagon shaft (6/7), checking that the pedal aligns with opposing side pedal.
- c) Thoroughly clean any thread lock off retaining bolt (17).
- d) Fit washer (16) over bolt (17) shaft and apply one drop of thread lock.
- e) Secure pedal in position with bolt and washer.

6.16 Castors Replacement (Refer Figure 5.)

Foot End Castors - Removal

- a) Use the hoist to raise the bed by approximately 20cm off the ground. Support the undercarriage frame on suitable wooden blocks.
- b) Ensure that the brake pedals are in the free position. Remove pedal retaining screws (17) and washers (16) and pull off the brake pedals (10) at both sides.
- c) Tap the hexagon shaft (6) through the frame just far enough to clear the castor tube. Remove two castor retaining hexagon head screws (5) and washers. Withdraw the castor from the undercarriage.

Foot End Castor – Installation

- a) When inserting braking castors, ensure that the castor is in neutral (free) mode. Insert the stem of the castor into the undercarriage and align the retaining screw holes.
- b) Install a new or serviceable shake proof washers and two hexagon headed screws (5) including Threadlock, but do not tighten yet.
- c) Align hexagon shaft (6) with one hand and support whilst carefully tapping opposite end with a mallet through castor. Tighten the two castor retaining hexagon headed screws (5).
- d) Install both brake pedals (10) and attach with screws and washers as described in Brake/Steer Pedal Replacement procedure.

Head End Castor – Removal

- a) Use the hoist to raise the bed by approximately 20 cm off the ground. Support undercarriage frame on suitable wooden blocks.
- b) Remove hexagon shaft retaining 12mm axle caps (8).
- c) Tap the hexagon shaft (7) through the frame just far enough to clear the castor tube. Remove two castor retaining hexagon head screws (5) and washers. Withdraw the castor from the undercarriage.

6. SERVICING INSTRUCTIONS – Continued

Head End Castor –Installation

- a) Before installing the braking / tracking castor, ensure that the castor is in neutral (free) mode. Insert the stem of the castor into the undercarriage wheel tube and align the retaining screw holes. Note: the tracking castor should be fitted at the right side, head end of the bed from the patient point of view.
- b) Install new or serviceable shake proof washers and two hexagon headed screws (5) including Threadlock, but do not tighten yet.
- c) Align hexagon shaft (7) with one hand and support, whilst carefully tapping opposite end with a mallet through castor. When fully positioned tighten the two retaining hexagon headed screws (5).
- d) Fit two new 12mm axle caps (8) on hexagon shaft ends.

6.17 Battery Backup - Replacement (Refer Figure 4.)



WARNING

Lead-acid gel type batteries are a potential environmental and health hazard. Store batteries in accordance with manufacturer's instructions. Dispose of unserviceable batteries safely in accordance with local authority regulations.

Removal

- a) Remove mattress platform seat cover (figure 7 item 41) and raise bed to maximum height for improved access. Unplug bed from mains power supply socket.
- b) Dislodge the control box (1) from the bed frame mounting bracket (2) – refer control box replacement procedure subsection 18
- c) Open the control box lid by pressing in the lock tab using a small flat screwdriver. Unplug the battery pack (12) cable from the control box port.
- d) Remove four pan head screws securing the battery pack to the bed mount plate (2), taking care not to drop the battery pack.

Installation

- a) Install the battery pack to the bed mounting plate by using existing four screws.
- b) Check that the battery cable plug O ring is lubricated and plug cable into the control box port, making sure to push the plug all the way in.
- c) Clip the cable into the guide slot on the control box housing and close the lid. Check that the cable is secure and cannot be pulled out.
- d) Re install the control box to the bed frame – refer to control box replacement procedure, subsection 18.
- e) Refit mattress platform seat cover (figure 7, item 41).



WARNING

Make sure the battery test procedure is followed after installation – refer to Battery Test procedure in section 3.

6. SERVICING INSTRUCTIONS - Continued

6.18 Mains Power Cable - Replacement (Refer Figure 4.)

Removal

- a) Raise the mattress platform to maximum height and remove seat cover (figure 7 item 41). Unplug bed from mains power supply socket.
- b) Remove screw and star lock washer securing mains cable flying earth terminal to the bed frame.
- c) Insert a small flat screwdriver into slot (A) on the outside of the control box mains inlet socket to release the red coloured cable retaining clip as shown on figure 15. Whilst pushing down on the tab, pull out the cable (7) from the control box socket.
- d) Cut and remove cable ties securing the mains power cable to the bed frame.

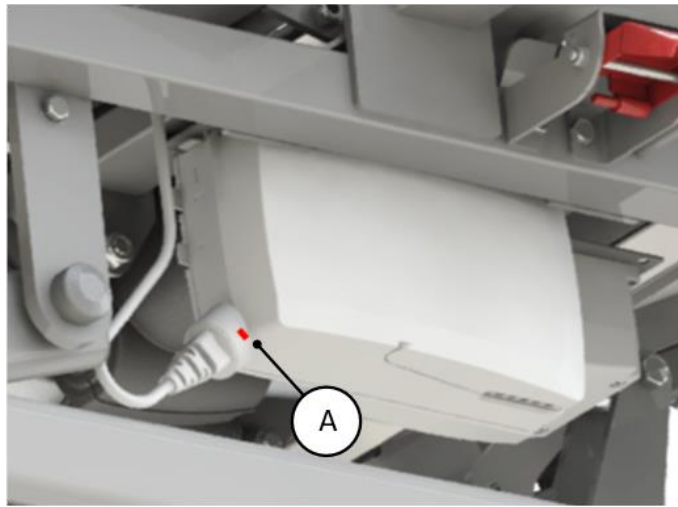


Figure 15: Control Box Power Cable

Installation

- a) Plug the mains power cable into the control box (1) socket. Make sure that the retaining clip clicks into place and that the mains lead cannot be accidentally pulled out of the control box.
- b) Reattach the earth terminal to the bed frame.
- c) Secure the cable to the bed frame with cable ties.
- d) Using the electrical safety test equipment (see Tool & Equipment section) verify that the earth bonding resistance value is within the limits shown in “Technical Data” section of this manual.

6. SERVICING INSTRUCTIONS - Continued

6.19 Control Box - Replacement (Refer Figure 4.)

Removal

- a) Raise the mattress platform to maximum height and remove seat cover (figure 7 item 41). Unplug bed from mains power supply socket. Disconnect mains power cable from control box – refer mains power cable replacement procedure – subsection 17.
- b) Release the control box (1) from the bed frame mounting bracket (2) by reaching from under the mattress platform and pressing on the lock tab (A) at one end of the control box as shown on figure 16. Simultaneously slide the control box out of the mount bracket.

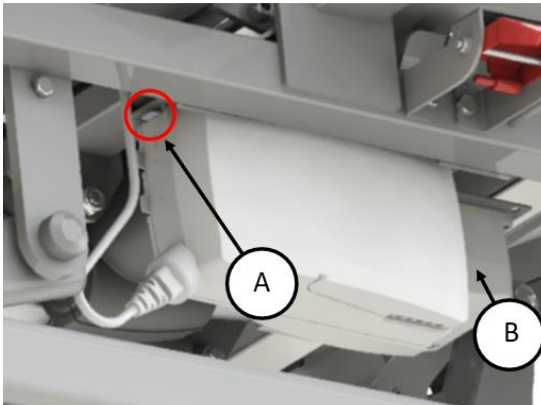


Figure 16: Control Box attached to bed mounting bracket

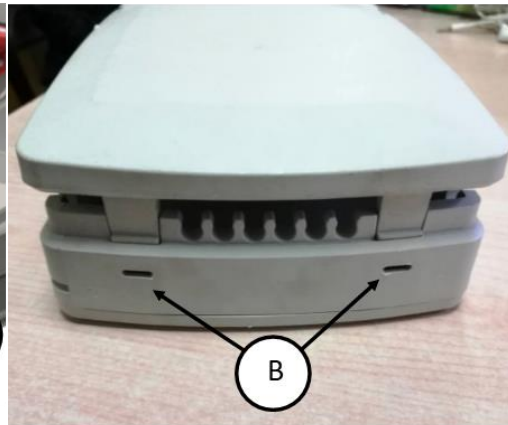


Figure 17: Opening Control Box Lid

- c) Open control box lid by inserting a small screwdriver into the two slots (B) and pressing the lock tabs as shown on figures 16 & 17.



CAUTION

Make note of each cable and its corresponding control box port.

- d) Disconnect the four actuator cables (6) from the control box.
- e) Disconnect the battery backup cable (12) from the control box – battery backup replacement procedure refer subsection 16.
- f) Disconnect Junction Box Cable (18) from the control box

Installation

- a) Reconnect the battery backup (12) cable to the control box.
- b) Reconnect the four actuator cables (6) to the corresponding control box ports as previously noted prior to disconnecting. Refer to actuator cable (common) replacement procedure – subsection 26.
- c) Align the control box with the mounting bracket, and slide control box over mounting bracket until lock tab (A) click sound can be heard, and control box is secured in position.
- d) Reconnect the mains power cable – refer mains power cable replacement procedure – subsection 17.
- e) Using the electrical safety test equipment (see Tool & Equipment section) verify that the earth bonding resistance value is within the limits shown in "Technical Data" section of this manual.

6. SERVICING INSTRUCTIONS - Continued

6.20 Junction Box / Under Bed Light - Replacement (Refer Figure 4.)

Removal

- a) Raise the mattress platform to the maximum height and remove seat cover (figure 7 item 41). Unplug the bed from mains power supply socket.
- b) Release junction box cable retainer (8) by inserting a small flat screwdriver into the slots on the front of the junction box to release the clips (A) (refer figure 18).
- c) Pry off retainer by inserting screwdriver under the two tabs (B) on the bottom face of the junction box (figure 18).
- d) Pull off the retainer and put it aside.

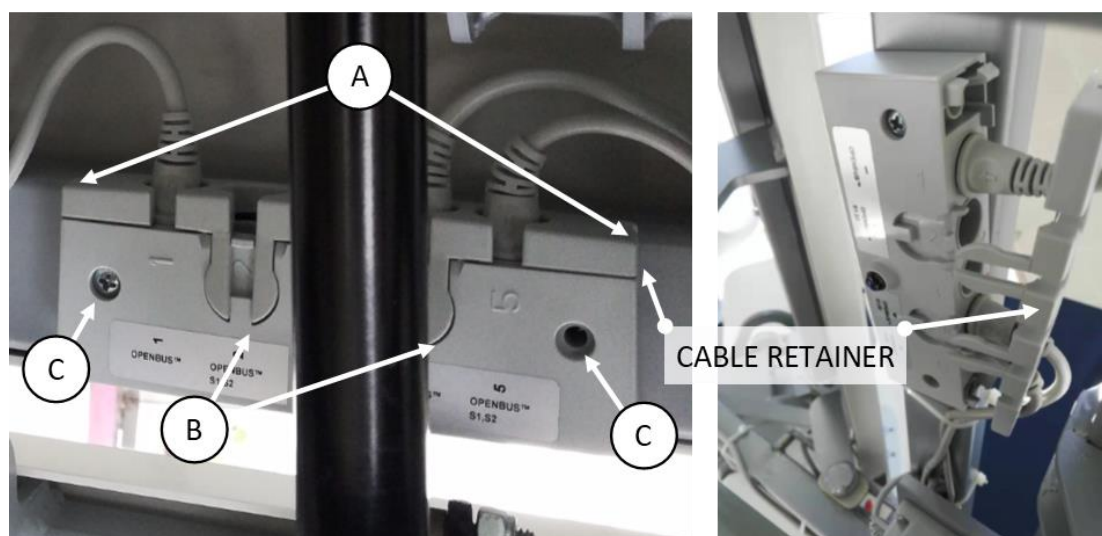


Figure 18: Junction Box with Cable Retainer

Cable Retainer Removed

- e) Unplug the control cables (10, 11 & 22) and blanking plug/s (9) (if fitted) from the junction box.
- f) Remove two pan head self-tapping screws (C) securing the junction box to the bed frame (figure 18).

Installation

- a) Secure junction box (8) to the bed frame using existing self-tapping screws (C), observing junction box orientation so that cable ports are facing towards the middle of the seat.
- b) Plug in control cables (10, 11 & 22) and blanking plug (9) (if fitted).
- c) Install cable retainer face plate onto junction box (8).

6. SERVICING INSTRUCTIONS - Continued

6.21 Roving Handset - Replacement (Refer Figure 4.)

Removal

- Raise the mattress platform to maximum height and remove seat cover (figure 7 item 41). Unplug the bed from mains power supply socket.
- Release junction box (8) cable retainer by inserting a small flat screwdriver into the slots (A) on the front of the junction box and pry off tabs (B) – refer figure 18
- Pull off the face plate and put it aside.
- Unplug the handset (19 & 20) control cables from the junction box.
- Cut and remove cable ties securing the handset cable to the bed frame.

Installation

- Route the handset cable (19 & 20) from the required side of the bed to the junction box (8).
- Plug in the handset cable back into the original junction box port.
- Install the cable retainer face plate.
- Secure the handset cable to the bed frame using cable ties.
- Reinstall seat cover (figure 7 item 41).

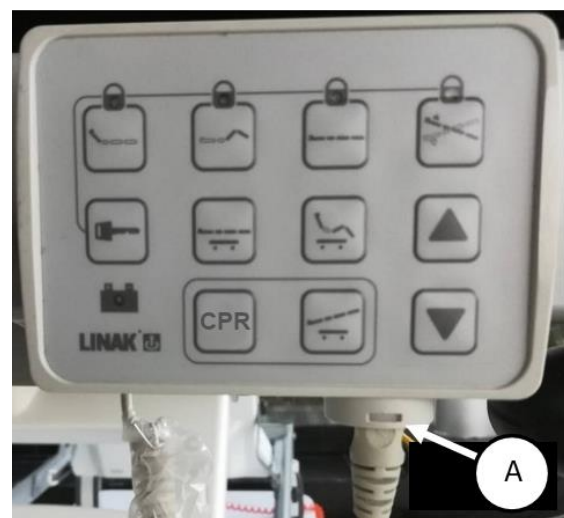
6.22 Attendant Control Panel (ACP) - Replacement (Refer Figure 4.)

Removal

- Raise the mattress platform to the maximum height and unplug the bed from mains power supply wall socket.
- Insert a small flat screwdriver into the slot (A) on the outside of the cable inlet socket of the attendant control panel (21) to release the cable retaining clip. Whilst pushing down on the tab with the screwdriver, pull out the cable from the attendant control panel socket.
- Remove two self-tapping screws securing the control panel to the bed frame.

Installation

- Plug the cable into the attendant control panel (21) socket. Make sure that the retaining clip clicks into place and that the cable cannot be accidentally pulled out.
- Secure the control panel to the bed frame by reinstalling the two self-tapping screws.



6. SERVICING INSTRUCTIONS - Continued

6.23 Attendant Control OpenBus Mini (ACOM) - Replacement (Figure 4.)

Removal

- Raise the mattress platform to the maximum height and remove seat cover (figure 7 item 41). Unplug the bed from mains power supply socket.
- Release junction box (8) cable retainer by inserting a small flat screwdriver into the slots on the front of the junction box to release the clips refer section 19, figure 18.
- Pull off the face plate and put it aside.
- Unplug the attendant control (22) cable from the junction box (8).
- Cut and remove cable ties securing attendant control (22) cable to the bed frame.

Installation

- Route attendant control cable (22) from bed foot-end towards the junction box (8).
- Plug in the attendant control cable into the same junction box port.
- Install junction box (8) cable retainer face plate.
- Secure ACOM (22) cable to the bed frame using cable ties.
- Reinstall seat cover (figure 7 item 41).

6.24 Height Actuators - Replacement (Refer figures 3, 4, 6, 7, 8 & 9.)

Removal

- If the actuators are functional: Lift off the head and foot panels (figure 7 items 41 & 42). Remove the platform sheet tops (figure 8 item 47, figure 9 items 41 & 56). Raise platform to the maximum height and use the hoist to support it. Disconnect the bed from the mains power supply.
- If the actuators are not functional and the bed is at low height: Lift off the head and foot panels (figure 7 items 41 & 42). Remove platform top covers (figure 8 item 47, figure 9 items 41 & 56). Disconnect the bed from the mains power supply. Use the hoist to support platform and tilt the bed on one side far enough to gain access to the actuators. Remove actuators (figure 6 item 3) mounting M10 bolt and nut to release the actuator ram from the crank arm (figure 6 items 27 & 30).
- Set the bed back on its castors and use the hoist to raise the platform to maximum height.
- Remove actuator rear and strut mounting bolts and nuts (figure 7 items 27 & 39). Remove cable retaining clip and unplug cable from actuator – refer figure 3.

Installation

- Apply grease to all pivot points prior to assembly.
- Lightly lubricate actuator cable plug O ring (figure 4 item 6) with petroleum jelly and insert plug into actuator port and secure in place using cable retainer.
- Position the actuator (figure 4 item 3), ensuring correct orientation and attach the body to crank actuator mount bracket using existing M10 bolt and new M10 Nyloc nut (figure 7 items 27 & 39). The bolt should be installed with the head toward the inside of the bed.



WARNING

Take care to avoid trapping fingers during the following procedure.

- Use the control handset to extend the actuator and align the hole in the ram with the hole in the crank arm. Attach the actuator ram to the crank arm with M10 bolt and new M10 Nyloc nut (figure 6 items 27 & 30). The bolt should be installed with the head toward the outside of the bed.
- Calibrate the actuators as described in Calibration section 5.3.

6. SERVICING INSTRUCTIONS - Continued

6.25 Thigh Panel Actuator - Replacement (Refer figure 4)

Removal

- Raise bed to the maximum height and if functional lower the knee break function to a flat position via handset. Disconnect bed from mains power supply.
- Remove seat top cover from bed frame (figure 7 item 41) in order to gain access to cable plug.
- Detach cable (6) from actuator (5) housing by removing cable retaining clip (figure 3) and disconnect cable.
- Release actuator from bed frame by removing two retaining pivot bolts and nuts (figures 7 & 9 items 27 & 39).

Installation

- Apply grease to both pivot points prior to assembly.



WARNING

Take care to avoid trapping fingers during the following procedure.

- Position actuator (5), ensuring correct orientation and attach to bed frame using existing bolts and new Nyloc nuts (figures 7 & 9 items 27 & 39). Be sure not to over tighten pivot bolts allowing actuator to freely pivot. Actuator safety spline feature allows for ram manual adjustment by rotating if required during this procedure.
- Lightly lubricate cable plug O ring with petroleum jelly and install, securing in place with retaining clip.
- Install seat top cover back into position (figure 7 item 41).

6.26 Backrest Actuator - Replacement (Refer figure 4)

Removal

- Raise the bed to the maximum height and if functional lower the backrest to a flat position via handset. Disconnect bed from mains power supply.
- Remove seat cover (figure 7 item 41) to improve accessibility.
- Detach cable (6) from actuator (4) housing by removing cable retaining clip and disconnect cable – refer figure 3.
- Using a small flat screwdriver or similar, slide open actuator CPR release cable cover in direction of arrow as shown on figure 19 and remove inner cable ball end (A) followed by cable outer housing (B).

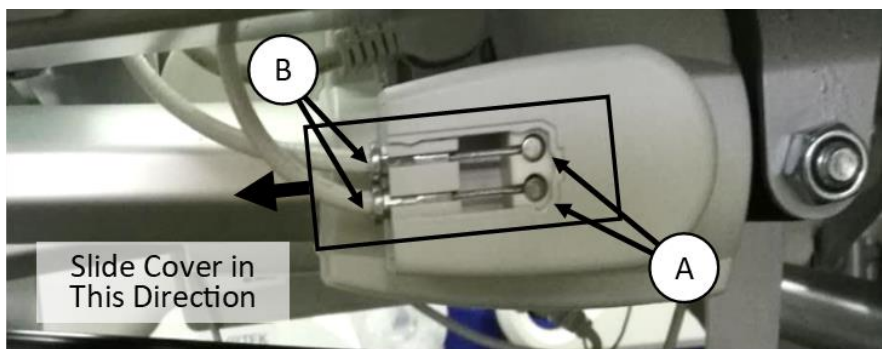


Figure 19: Backrest Actuator CPR release cables connection

- Remove actuator from bed frame by removing two retaining pivot bolts and nuts (figure 7 items 27 & 39, figure 8 items 27 & 30).

6. SERVICING INSTRUCTIONS - Continued

Installation

- a) Apply grease to both pivot points prior to assembly.
- b) Position actuator, ensuring correct orientation and attach to bed frame using existing bolts and new Nyloc nuts (figure 7 items 27 & 39, figure 8 items 27 & 30). Be sure not to over tighten pivot bolts allowing actuator to pivot freely.
- c) Note: Actuator Safety spline feature allows for ram manual adjustment (by rotating the ram) if required during this procedure.
- d) Lightly lubricate actuator cable plug O ring (6) with petroleum jelly and install, securing it in place with retaining clip.
- e) Insert CPR release cable outer into actuator cable recess followed by inner cable ball end and slide cover in position.
- f) Install seat cover in position (figure 7 item 41).

6.27 Actuator Cable (common) - Replacement (Refer figure 4)

Removal

- a) Raise the bed to maximum height and disconnect bed from mains power supply.
- b) For mattress platform sections actuator/s, lower the sections to a flat position and remove ABS top cover/s to improve visibility and accessibility.
- c) Remove actuator cable retaining clip from actuator housing port and disconnect cable – refer to section 6.1.2 figure 3.
- d) Remove control box (1) from bed frame – refer to subsection 18 - control box replacement procedure.
- e) Open control box lid using a small flat screwdriver and unplug cable to be replaced (figure 4 item 6).

Installation

- a) Lightly lubricate actuator cable (6) plug O ring with petroleum jelly and plug it into the control box port (1). Clip the cable into the cable guide slot on the control box housing and close the lid. Check that cable is properly secured.
- b) Re-attach the control box to the mounting bracket on the bed frame – refer to subsection 18 control box replacement procedure.
- c) Route cable from the control box along the bed frame to the actuator.
- d) Lightly lubricate cable plug O ring with petroleum jelly and plug it into the actuator port. Push down on the retaining clip to secure cable in position. Check that cable is properly secured.
- e) Apply cable ties to secure cable to the bed frame.
- f) Reinstall mattress platform section cover/s.

6. SERVICING INSTRUCTIONS - Continued

6.28 CPR Release Cable - Replacement & Adjustment (Refer figure 20)



LH & RH side CPR release cable are of different length.

Removal

- Raise the platform to maximum height and backrest to maximum elevation. Remove seat ABS cover (figure 7 item 41).
- Remove nut (A) securing the inner cable end to the CPR lever fabrication. Remove lock nut (B) from the CPR cable outer and release it from the tensioning plate just behind the CPR Lever.

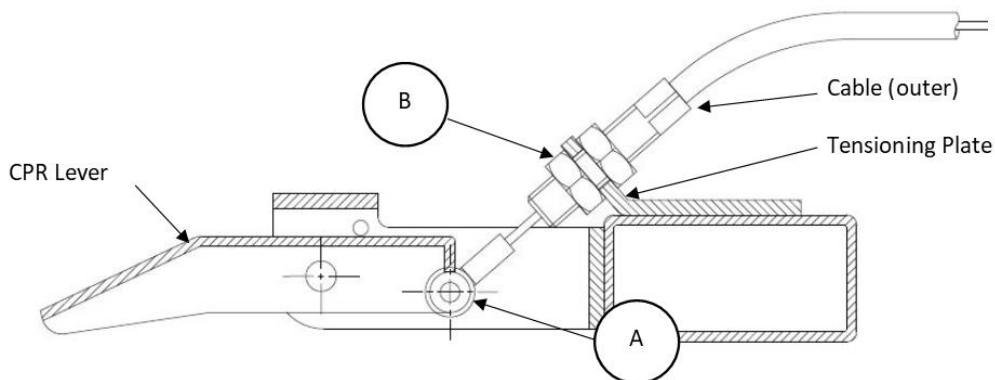


Figure 20: CPR release lever cable connection

- Remove cable from backrest actuator by sliding the cover (A) off the CPR cable housing on the side of the actuator. Lift the ball end of the cable (B) out of the housing and remove the CPR cable – refer subsection 25, figure 19.

Installation & Adjustment

- Insert CPR release cable outer into actuator cable recess followed by inner cable ball end and slide housing cover into position – refer subsection 25, figure 19.
- Feed the CPR release cable outer through the tensioning plate located just behind the release lever and loosely thread the outer cable end lock nut (B).
- Attach the inner cable loop to the CPR release lever and secure in position with a new Nyloc nut (A).
- Adjust the two lock nuts (B) on the CPR release cable outer to obtain satisfactory operation of the release mechanism.
- Refit seat ABS top cover (figure 7 item 41).

6.29 Backrest Damper - Replacement (Refer figure 8)

Removal

- Raise the backrest to maximum height. If the backrest actuator has been removed, use the hoist to support the backrest in position.
- Remove and discard both retaining Nyloc nuts (49) and remove the backrest damper (48).

Installation

- Fit new backrest damper onto the bed frame and backrest mounting pins aligning as required by adjusting backrest angle to suit.



The damper ram must point towards the head end of the bed as shown on figure 8

- Secure the damper in position with two new NYLOC nuts (49) making sure the damper is free to pivot on the mounting pins, but not too loose.

6. SERVICING INSTRUCTIONS - Continued

6.30 X-Ray Backrest Damper - Replacement

Removal

- a) Raise the bed and the backrest to their maximum heights.
- b) Remove the seat cover (figure 7 item 41).
- c) Remove retaining screw, washers and Nyloc nuts, and discard both nuts. Remove the damper.

Installation

- a) Fit new damper onto the bed and backrest x-ray tray mounting pins aligning as required by adjusting backrest angle to suit.



The damper ram must point towards the head end of the bed.

- b) Secure the damper in position with two new NYLOC nuts making sure the damper is free to pivot on the mounting pins but not too loose.

6.31 Linen Rack - Replacement (Refer figure 10)

Removal

- a) Raise the bed to a comfortable working height.
- b) Squeeze base extension release lever (58) and partially extend base extension.
- c) Pull linen rack (59) to fully extend.
- d) Knock out two Selock pins (98) located at the end of the two middle rack slide rods using correct size pin punch and hammer.
- e) Slide out and remove linen rack from base extension.

Installation

- a) Align replacement linen rack (59) slide rods with four holes in base extension cross rail and partially slide in linen rack just enough for access retaining pin holes from the inner side of the base extension.
- b) Fit two retaining sellock pins (98).
- c) Check for smooth operation and apply dry lube to slide rods.

6.32 Base Extension - Replacement (Refer figure 10)

Removal

- a) Raise the bed to a comfortable working height.
- b) Remove linen rack (stripper) refer to subsection 31 - linen rack replacement procedure.
- c) Remove roller buffers (34) (refer to subsection 36 Roller Buffers Replacement procedure).
- d) Remove base extension lock plate (91) retaining/pivot hexagon head bolt and Nyloc nut (27 & 29), discarding the Nyloc nut.
- e) Remove lock plate compression spring (57) and manoeuvre release handle out of base extension assembly.
- f) Pull base extension frame all the way out with some force and plastic glide bushes will slide out of the mattress platform side tubes.

6. SERVICING INSTRUCTIONS - Continued

Installation

- a) Fit internal slide (62) and glide bushes (63) over base extension slide rails.
- b) Pop rivet internal slide fittings in place (60).
- c) Fit linen rack slide bushes x 4 each (61).
- d) Align base extension internal slides with mattress platform side tube and slide inside. Knock plastic glide bushes (63) inside mattress platform side tubes using a mallet, taking care not to damage the plastic fittings or the powder coat finish.
- e) Install the base extension lock plate (91) along with the compression spring (57), ensuring spring is correctly placed over lever tab, and secure in place with existing bolt (29) and a new Nyloc nut (27). Check that lock plate is free to pivot but not too loose.
- f) Install linen rack (59) (refer to subsection 31 - Linen Rack Replacement procedure).
- g) Install socket adaptor and roller buffer (32, 33, 34) (refer to subsection 36 - Roller Buffers Replacement procedure).
- h) Replace serial number label.

6.33 Head End Split Side Rail - Replacement (Refer figure 12)

Removal

- a) Raise the bed to the maximum height and disconnect from mains power supply.
- b) Prise off the cable retainer off the junction box / underbed light – refer figure 18.
- c) Unplug the head-end side rail cable from the junction box (figure 4 item 11).
- d) Remove cable ties securing head-end side rail cable to bed frame.
- e) Lock the side rail in the raised position.
- f) Remove two button head screws (93) securing side rail assembly to the backrest frame along with flat and spring washers (94 & 95).
- g) Remove side rail assembly from the backrest frame.

Installation

- a) Fit the head-end side rail in position aligning side rail mounting bracket holes with location holes on the backrest frame.
- b) Secure side rail in position to the backrest using existing button head screws (93), flat and spring washers (94 & 95).
- c) Route cable and plug it into junction box / underbed light (figure 4 item 8). Reinstall the junction box cable retainer and check that the cable is properly secured.
- d) Secure the cable to the bed frame using cables ties, ensuring that there is sufficient slack on the cable allowing the side rail to be raised and lowered without straining the cable.

6.34 Foot End Split Side Rail - Replacement (Refer figure 13)

Removal

- a) Lock the side rail in the raised position.
- b) Remove two hexagon head bolts (70) and Nyloc nuts (27) securing side rail assembly to bed frame and discard Nyloc nuts.
- c) Remove side rail assembly from bed frame.

Installation

- d) Fit the foot-end side rail in position aligning side rail mounting bracket holes with location holes on the mattress platform frame.
- e) Secure side rail in position using existing hexagon head bolts (70) and two new Nyloc nuts (27).

6. SERVICING INSTRUCTIONS - Continued

6.35 Fold Down Tubular Rails - Replacement (Refer figure 11)

Removal



WARNING

Take care to avoid trapping fingers during the following procedure.

- Lock the side rail in the raised position.
- Remove four hexagon head bolts (70) and Nyloc nuts (27) securing both mounting brackets to bed frame, and discard Nyloc nuts.
- Remove Side Rail assembly from the bed frame.

Installation

- Observing left, and right-hand side rails, lock the side rail in the raised position.
- Align side rail brackets mounting holes with four holes on the bed frame and carefully slide both brackets in position over the bed frame side tube.
- Install existing four hexagon bolts (70) (with thread pointing down) and secure in position using four new Nyloc nuts (27).
- Check Side Rail for correct operation.

6.36 Roller Buffer & Socket Adaptor - Replacement (Refer figure 10)

Removal

- Raise bed to maximum height.
- Grip middle of retaining pin (32) using multigrips or similar tool and gently tap out in direction of hole at the side of the lock cap (33).
- Withdraw pin and remove lock cap and roller buffer (34).
- Tap out socket adaptor (35) from underneath and remove.

Installation

- Insert socket adaptor (35) inside corner socket tube ensuring the retaining pin hole, bottom of the adaptor is aligned with the hole at the bottom of socket tube.
- Fit roller buffer (34) over socket tube.
- Slide lock cap (33) over socket tube, aligning lock cap holes with socket tube holes.
- Insert retaining pin (32), with machined groove facing out, and tap all the way until it comes to a stop.

6.37 Calf Section Ratchet System - Replacement (Refer figure 9)

Removal

- Remove both the thigh and calf section covers (41 & 56) to allow for easier access.
- Raise the calf section to maximum height. If the calf section actuator has been removed, use the hoist to support the calf section in position.
- Lift the calf section to a horizontal position.
- Remove Ratchet retaining hexagon head bolts (17) and Nyloc nuts (49) off one ratchet rack at a time. Discard Nyloc nuts.
- Remove the ratchet rack (54), closely observing ratchet rack orientation.

Installation

- Fit replacement ratchet (54) with sliding plat facing towards the bed foot end.
- Secure in position using existing hexagon bolts (17) and two new Nyloc nuts (49).
- Check for correct operation.
- Apply same replacement process for other side if required.

6. SERVICING INSTRUCTIONS - Continued

6.38 Stabiliser Arm - Replacement (Refer figure 6)



If both stabiliser arms need to be replaced, be sure to only replace one arm at a time, in order to maintain the positioning of the mattress platform.

Removal

- a) Adjust the mattress platform to a mid-height position.
- b) Remove bottom retaining bolt head cover cap (28).
- a) Remove retaining hex head bolts (29 & 30) and Nyloc nuts (27). Discard Nyloc nuts.
- b) Remove the Stabiliser Arm.

Installation

- a) Fit replacement stabiliser arm in position.
- b) Secure in position using existing hexagon bolts (29 & 30) and two new Nyloc nuts (27). The stabiliser must be free to pivot but not too loose.
- c) Fit bolt cover cap (28).

6.39 Crank Roller Bearing - Replacement (Refer figure 6)



The below process describes replacement of the head end radius arm bearings. Apply a similar process to replace foot-end rollers.



WARNING

Ensure mattress platform sub frame is securely supported, with the hoist or suitable stands, at all times.

Removal

- a) Apply central locking brakes and support mattress platform using the hoist.
- b) Detach both stabiliser arms from the undercarriage frame only (refer section 38 Stabiliser Arm Replacement procedure).
- c) Push the mattress platform assembly towards the foot end of the bed until the head end roller bearings (25) are just clear of the channels (figure 5 item 22) on the undercarriage assembly as shown on figure 21.
- d) Lift the mattress platform just enough for the roller bearings to clear the undercarriage frame (A) and pull the mattress platform back (B) towards the head end with the roller bearing just clearing the channels – refer figure 21.
- e) Support the mattress platform with stands.
- f) Pull the roller bearings (25) and spacer bushes (24) off the crank shaft.

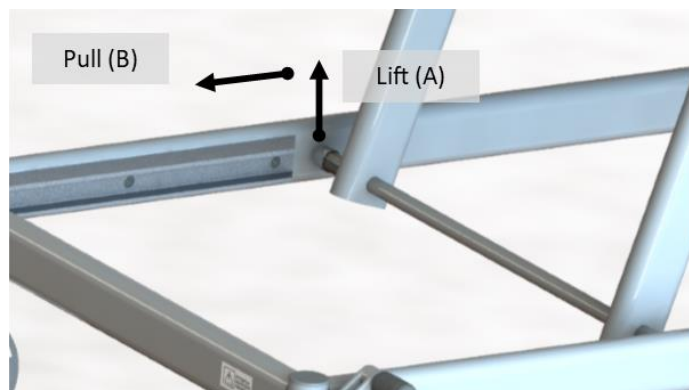


Figure 21: Crank roller bearing replacement

6. SERVICING INSTRUCTIONS - Continued

Installation

- a) Fit two new roller bearings (25) and spacer bushes (24) onto the head end crank.
- b) Push the mattress platform assembly towards the foot end of the bed and lower it just enough to align the roller bearings (25) with the head end channels (figure 5 item 22) on the undercarriage frame.
- c) Pull the mattress platform towards the head end until the roller bearings are engaged inside the channel.
- d) Attach and secure the stabiliser arms to the undercarriage frame ensuring that they are free to pivot, but not too loose (refer subsection 38 - Stabiliser Arm Replacement procedure).

6.40 Mattress Platform ABS Covers - Replacement (Refer figure 7, 8, 9)

This section described replacement of the moulded ABS covers for the backrest, seat, thigh and calf sections of the mattress platform.

Removal

Simply lift each ABS moulded cover off its respective mattress platform frame.

Installation



Each cover is unique in size and shape and cannot be incorrectly installed.

Place replacement cover over its respective frame ensuring cover is sitting flat on top of the steel tubular frame.

6.41 Mattress Retainer - Replacement (Refer figure 8)

Removal

- a) Unscrew the two Phillips head screws and remove dome nuts from Retainer moulding (46).
- b) Pull Retainer off steel frame.

Installation

- a) Slide Retainer (46) over steel frame, aligning retainer screw holes with location holes in the frame. It may be necessary to use a small screwdriver or similar probe to align screw holes.
- b) Fit dome nuts to the underside of the retainer moulding and use fingers to support the dome nuts whilst securing retainer in place with the Phillips head screws.

6. SERVICING INSTRUCTIONS - Continued

6.42 Powder Coat Restoration

Damage to the paint finish on the frame or other components can be repaired by brush application of cellulose based paint obtainable from specialist paint suppliers or local distributors.

To ensure colour match, contact Arjo quoting the serial number, for confirmation of finish colour.

Procedure

- a) Clean and degrease the damaged area by wiping with a lint free cloth moistened with a suitable volatile solvent e.g. methylated spirits.
- b) Make sure there are no loose chips of paint and use fine silicon carbide abrasive paper to abrade the area where paint is to be applied and blend to a smooth surface. Clean and degrease the area again.
- c) Use a soft bristle brush and apply the colour finish paint to the damaged area. Allow to dry. Use in accordance with the manufacturer's instructions.



WARNING

Always use painting materials as directed by the manufacturer and obey the safety instructions.

7. TECHNICAL DATA

7.1 Product Specifications

Dimensions

Overall Length	219.5 cm
Overall Length Base Extension Extended (28.5cm)	248.0 cm
Bed Extension Length	28.5 cm
Linen Rack (Bed Stripper) Extension	30.0 cm
Mattress Surface Length - Between Panel Faces	203.0 cm
Mattress Surface Length - Extended	231.5 cm
Overall Width	101.0 cm
Deck Height Range – Tente Single 125mm Castors	38.0cm to 83.5cm (+/- 5mm)
Trendelenburg Tilt	0 to 14°
Reverse Trendelenburg	0 to 14°
Backrest Angle Adjustment	0 to 70°
Knee Break Angle Adjustment	0 to 35°
Calf Positioning Angle Adjustment	0 down to 25°

Mattress Size Dimensions

Mattress Thickness	Min12.5cm – Max 17cm
Recommended Mattress Size	W=86cm L=198cm

Product Weight (approximate)

Without Side Rails Fitted	119 Kg
With Rails Fitted	146 Kg
Safe Working Load SWL Safety Factor = 2 x SWL	250 Kg
Maximum Patient Weight	185 Kg

Electrical Data

Power Ratings	100 - 240V ~ 50/60Hz Max 3.9A
Duty Rating	Intermittent 10%, Max 2 min / 18 min
Electric Shock Protection	Class 1 Type B ⚡
Liquid Ingress Protection	IPX4
Internally Powered Equipment (Battery Backup Only)	2 x 12V Series Connected Batteries Sealed, Rechargeable Lead/Acid Gel 1.2 amp hrs.

Standards

The Prioma bed has been built to comply with International Standard IEC 60601-1 and IEC 60601-2-52 (Edition 3.1 2012-08)

7. TECHNICAL DATA - Continued

7.2 Environmental Protection

Incorrect disposal of this equipment and its component parts, particularly gas springs actuators, batteries and other electrical devices, may produce substances that are hazardous to the environment. To minimise these hazards, contact Arjo for information on correct disposal.

7.3 Symbols & Labels

	Potential Squeezing Hazard
	Potential Shearing Hazard
	Potential Equalisation Terminal
	Refer to instructions for use
	Manufacturer
	Date of Manufacture
	Serial Number
	Reference Number
	Type B applied part. Applied parts are considered to be: Upper frame section, bed controls, Split Side Rails, Head/Foot Panels.
	Safe Working Load
	Maximum Patient Weight
	Complies with European Medical Device Directive
	Minimum body weight / maximum body height / Body mass index.
Mattress Size	Incompatible Mattresses Can Create Hazards Mattress Thickness Minimum 125mm - Maximum 170mm Recommended Mattress Dimensions: L=198cm x W=87cm

7. TECHNICAL DATA - Continued

7.4 Product Lifetime

The lifetime of this equipment is typically (10) years. "Lifetime" is defined as the period during which the product will maintain the specified performance and safety, provided it has been maintained and operated in conditions of normal use in accordance with the requirements provided in the instructions for use manual

7.5 End of Life Disposal

- Equipment that has electrical and electronic components should be disassembled and recycled per Waste of Electrical and Electronic Equipment (WEEE) or in accordance with local or national regulation.
- All batteries in the product must be recycled separately. Batteries are to be disposed in accordance with national or local regulations.
- Components that are primarily made up of different kinds of metal (containing more than 90% metal by weight) for example bed frame, should be recycled as metals.

7.6 Safe Disposal of Gas Dampers

Gas dampers contain air and oil at high pressure and must be vented in accordance with the following instructions before being discarded.

Under no circumstances should any attempt be made to open the device.



WARNING

DANGER OF EXPLOSION. DO NOT HEAT OR INCINERATE

The sudden release of gas at high pressure could cause serious injury or death. Put on suitable protective clothing, eye protection and / or a face shield. This procedure should be carried out in a well-ventilated room as the expelled gas may contain oil droplets.

- 1 Operate the valve at the end of the piston rod and allow the piston rod to fully extend.
- 2 Clamp the gas spring in a vice and drill a 3mm diameter hole, 15 to 20mm from the end of the gas spring housing (refer diagram below). Screen off the drilling point as metal chips and oil may be ejected due to the high internal pressure. Then drill a second hole at position 2 as shown. The holes should be drilled to a depth of approximately 10mm.

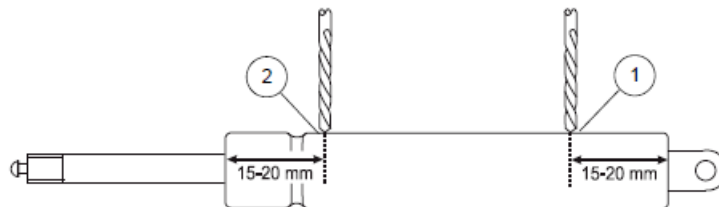


Figure 22: Disposal of Gas Spring

- 3 Pump the piston rod in and out several times while holding the drilled hole over a container to collect the expelled oil.
- 4 Dispose of the gas spring and oil through special waste or recycling points in accordance with local regulations. Do not dispose of gas springs or oil in household refuse.
- 5 If correct disposal in accordance with these instructions is not possible, the unit should be returned to the supplier.

7. TECHNICAL DATA - Continued

7.7 Electromagnetic Compatibility

EMC Test standard IEC60601-1-2:2014 – test result		
Classification of EUT: Group 1, Class B		
Test Item	Standard	Result
Mains terminal disturbance voltage	IEC 60601-1-2:2014 Reference: CISPR 11:2009+A1:2010	Pass
Radiated emission	IEC 60601-1-2:2014 Reference: CISPR 11:2009+A1:2010	Pass
Harmonic of current	IEC 60601-1-2:2014 Reference: IEC 61000-3-2:2005 +A1:2008+A2:2009	Pass
Flicker	IEC 60601-1-2:2014 Reference: IEC 61000-3-3:2013	Pass
ESD immunity	IEC 60601-1-2: 2014 Reference: IEC 61000-4-2:2008	Pass
Radiated EM field immunity	IEC 60601-1-2:2014 Reference: IEC 61000-4-3:2006 +A1:2007+A2:2010	Pass
EFT immunity	IEC 60601-1-2:2014 Reference: IEC 61000-4-4:2012	Pass
Surge immunity	IEC 60601-1-2:2014 Reference: IEC 61000-4-5:2005	Pass
Conducted disturbance immunity	IEC 60601-1-2:2014 Reference: IEC 61000-4-6: 2013	Pass
Power frequency magnetic field immunity	IEC 60601-1-2: 2014 Reference: IEC 61000-4-8:2009	Pass
Voltage dips and interruption immunity	IEC 60601-1-2:2014 Reference: IEC 61000-4-11:2004	Pass

8. TRANSPORTATION AND STORAGE

Handle with care.

The Prioma bed should be stored in a clean, dry well ventilated area.

Do not drop and avoid shock or violent impact when transporting.

The following limits apply during transport and or a storage period of up to 6 weeks duration:

Ambient temperature	-15°C	To	+60°C
Relative humidity	10%	To	75%
Air pressure	50 kPa	To	106 kPa

The following limits apply to normal operating conditions and or periods of storage longer than 6 weeks:

Ambient temperature	+10°C	To	+40°C
Relative humidity	30%	To	75%
Air pressure	70 kPa	To	106 kPa

When storing the bed, or when the bed is not in use for prolonged periods of time it is recommended that the beds battery system be maintained periodically using the following guidelines:

Storage Temperature	Charging Interval
20°C or less	Charge batteries for 24 hours every 9 months.
20 to 30°C	Charge batteries for 24 hours every 6 months.
30 to 40°C	Charge batteries for 24 hours every 3 months.

9. REGULATORY INFORMATION



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At Arjo, we are committed to improving the everyday lives of people affected by reduced mobility and age-related health challenges. With products and solutions that ensure ergonomic patient handling, personal hygiene, disinfection, diagnostics, and the effective prevention of pressure ulcers and venous thromboembolism, we help professionals across care environments to continually raise the standard of safe and dignified care. Everything we do, we do with people in mind.



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