

# Plinth | Medical



## Tilt Table

Models: 501, 501A, 501D & 501P

# USER MANUAL

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Plinth Medical Ltd is an ISO Audited company to ISO9001:2008



Our products are CE marked in conformity with the EC Directive MDD 93/42/EEC

## 1. Introduction

Thank you for purchasing a product from Plinth Medical Ltd. We use the highest quality components and manufacturing techniques to ensure that our products are simple to use and will last a long time. It is recommended that all users read and retain this User Manual for reference.

Throughout this manual notice is made of a Warning and Caution system to highlight to the user practices, procedures or conditions that should either not be allowed to happen or happen with caution.

**Warnings are in a box with bold type and identify potential hazards, procedures or conditions which could result in death, injury or serious damage.**

Cautions are in a box with plain type and identify conditions or procedures where if caution is not taken it may result in damage or failure of equipment.

### General Warnings

#### **WARNING**

**Maximum Load (SWL) is 160kg distributed evenly.**

**Do not use flammable gasses in proximity to an electrically operated couch.**

**Do not concentrate weight on either side or either end of the couch.**

**Use only accessories approved for use with this couch.**

**Disconnect power supply before moving couch.**

**Children must be adequately supervised in the presence of the couch.**

**Do not allow children to play with the couch at anytime.**

## 2. Installation

Although this couch comes complete and is virtually ready to use it is important to remove all packaging and read the following before use.

### Locking Castors

The castors can be locked from either side of the head end of the chair. Press the pedal to lock the castors individually and lift the pedal to unlock.

Please refer to the Operation section on page 7 for further details.

#### **WARNING**

**Castors must be locked before the chair is used and whilst patients get on or off the chair.**

### Power Supply

Ensure that hand or foot switch leads are clear of the moving parts of the couch before operation. Connect the couch to a normal domestic type power supply observing the following notes.

#### **WARNING**

**Ensure that the mains lead, plug and socket are in good condition before connecting the equipment.**  
**Ensure that the mains cable has a clear run and is not stretched when connected and that no one can fall over the cable.**

#### **CAUTION**

When couch is not in use switch off power supply.

### **Lifting and Moving**

Should the couch need to be moved or lifted (for example to remove it from its packaging) then a minimum of two people are required. The couch must only be lifted by the metal base frame near the wheels. If the couch is upside down then it may be carried by holding it underneath the upholstery. When turning the couch over, please make sure the frame and upholstery are supported at all times, otherwise damage may occur to the upholstery and gas springs.

#### **CAUTION**

Under no circumstances lift the couch by the upholstery or top sections as damage will occur to the gas spring mechanisms.

### 3. Operation

Plinth Medical offers 4 versions of 501 all of which feature electric height and electric tilt operation; 501 being the standard one piece top version, 501A with an adjustable backrest, 501D with divided legs and 501P the paediatric version fitted with divided legs.

#### Electrical Operation General

#### **WARNING**

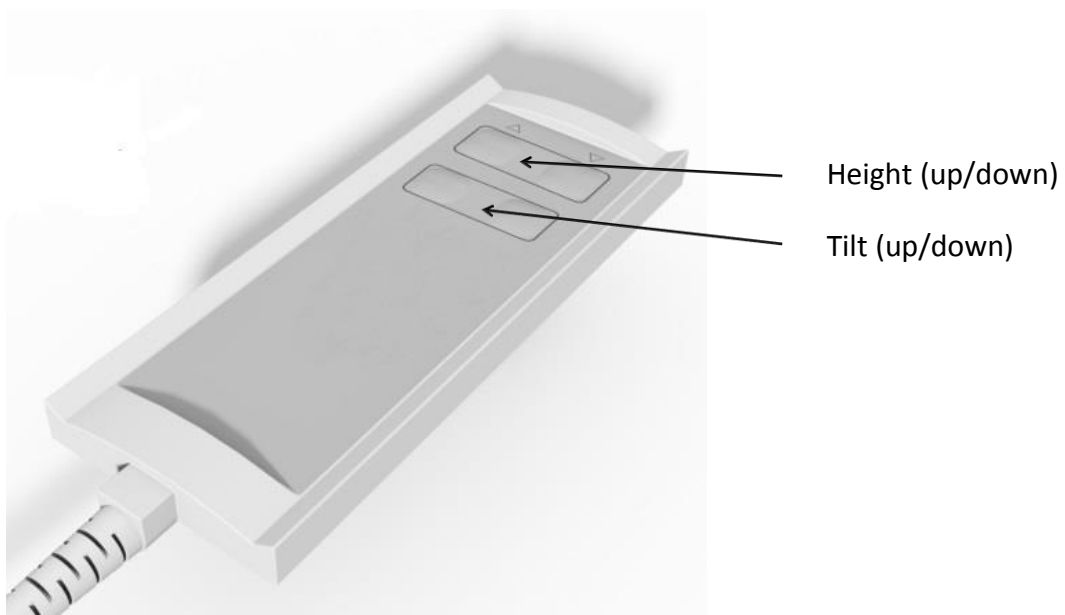
**Safely position patient before operating any functions.**

**Position the switch in a place where it is clear of the moving parts of the couch and where accidental operation is not possible.**

**Ensure that all electrical cables are clear of the moving parts of the couch.**

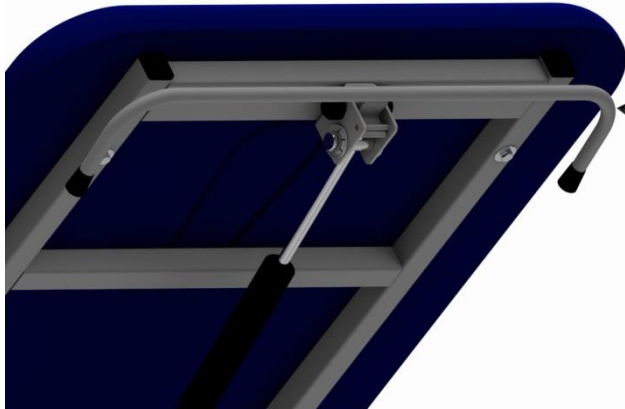
#### Electrical Operation (two motor)

For all versions of the 501 tilt table, the standard hand switch fitment is a low voltage operated switch as shown below.



### **Manual Head Section (501A)**

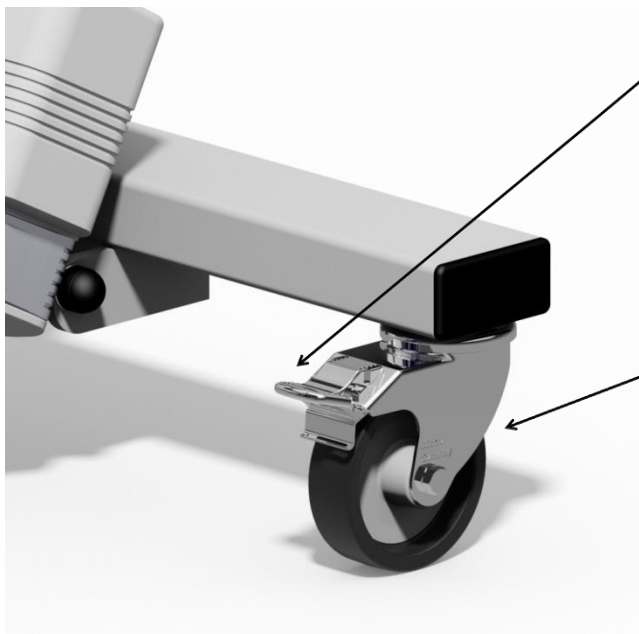
For model 501A with adjustable back rest, the operation is via a gas spring mechanism triggered with a lever as shown below:



Press the lever to adjust the section. Support the section whilst adjusting and release the lever to lock in the desired position.

### **Locking Castor Operation**

The castors fitted to this tilt table are 125mm locking swivel castors suitable for patient movement. They are locked individually on each castor.



Press the pedal down fully to operate the castors and lift the pedal to release.

Castor

### **WARNING**

**Castors must be locked before the couch is used and whilst patients get on or off. Disconnect and coil electrical leads and switch away from the couch mechanism prior to moving the couch.**

## **Patient Foot Board**

All models are supplied with a standard removable foot board (except Model 501P).



Fit and remove by sliding the footboard into the tilt table frame and secure with the 10mm bolts supplied.

### **WARNING**

**The foot board must be securely fixed before the couch is used.**

## **Patient Grab Handles**

Patient grab handles are adjustable for height to suit the patient and rotation to facilitate transfer on and off the couch. They are adjustable by a single knob:

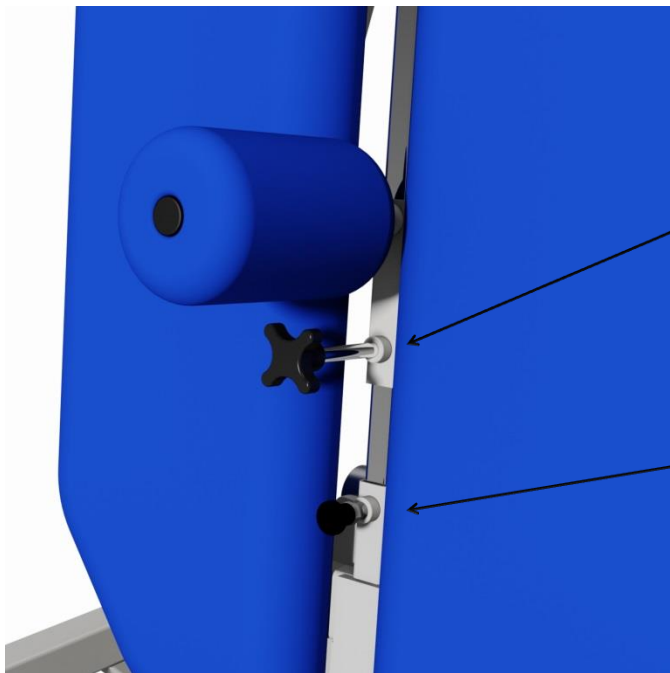


Locking knob loosen to adjust to desired position and then re-tighten.



### **Pommel (501D and 501P)**

The pommel is adjustable for height and can also be removed as follows:



Locking knob to adjust pommel height. Loosen, adjust to desired position and re tighten.

To remove pommel. Pull pin, lift pommel towards you and slide off the bar. Replace bar and locate pin.

### **Side Supports (501D and 501P)**

Side supports are individually adjustable to provide additional patient support. Loosen knobs, set to desired position and re tighten.



Locking knob adjusting height of support.

Locking knob adjusting lateral position of support.

### **Tilt Table Straps**

Tilt table straps must be fitted securely to the patient before the table is operated. The straps loop around the stainless steel poles at the side of the table and then fix back over the patient (using either Velcro or clips depending on the strap type).

#### **WARNING**

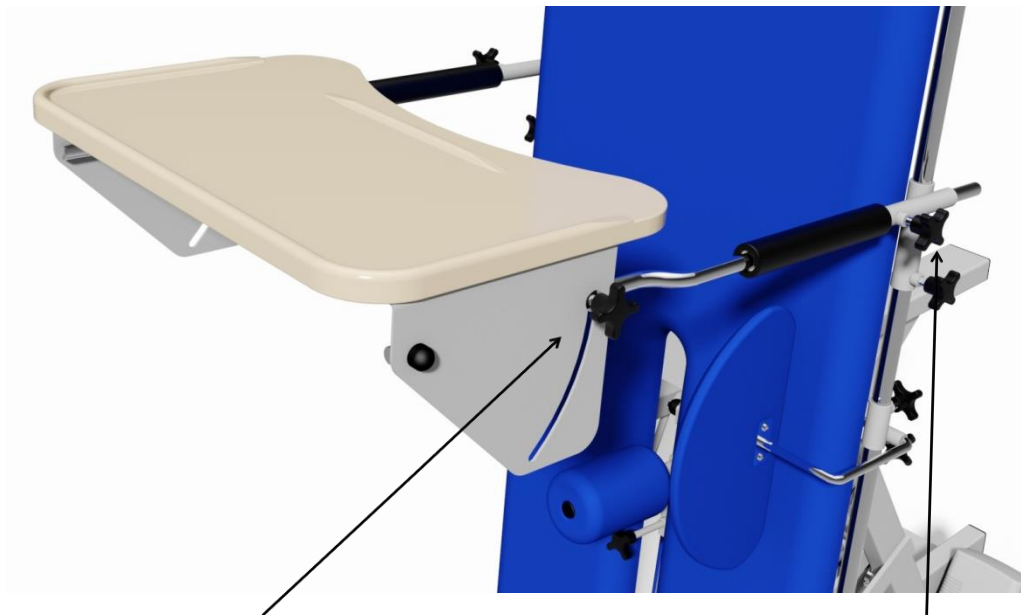
**The patient must be securely strapped using all straps before operating the table.**

## 4. Accessories Operation

A range of accessories are available as options to expand the use of the couch. The standard recommended accessories are detailed below. Many of these can be fitted retrospectively if required.

### **Patient Table & Tilting Patient Table**

A patient worktable may be ordered as an optional extra. It is available in both fixed and tilting format. The tilting version is shown below on model 501D.



Angle adjustment knob  
loosen and adjust to  
desired position and  
re tighten

Location adjustment knob  
loosen and adjust to  
desired position and  
re tighten

### **Battery Backup**

Battery backup is a useful option in case of power shortages. It allows at least one full cycle under battery power to enable the patient to get off the chair. If specified with the chair then this feature will remain automatically charged and ready for use in the event of a power failure.

#### **CAUTION**

Do not use the battery to operate the chair other than for one cycle. This feature is designed to get a patient off the chair in an emergency and frequent use will destroy the battery.

Battery operation is available as an option if required.

### **Angle Indicator**

Also available is an angle indicator allowing for precise positioning of the Tilt Table. This is a free of charge option and may also be fitted later if desired.

## 5. Cleaning and Decontamination

### WARNING

If contamination is suspected then decontaminate the couch before use.

Torn or damaged upholstery should be replaced immediately.

### CAUTION

Do not use Alkalis or other organic solvents for routine cleaning.

Always cover the vinyl with paper towelling or couch covers if it can come into contact with bare skin.

### Cleaning

Always wear suitable protective clothing before carrying out this procedure. Disconnect the mains supply to the couch and move it to a suitable cleaning area and lock the castors.

**Step 1.** Using warm water and soap on a damp cloth, carefully wipe the couch over from top to bottom. Take great care around electrical components.

**Step 2.** Wipe the couch carefully from top to bottom using a clean damp cloth and soap free water.

**Step 3.** Carefully dry the couch from top to bottom with clean lint free paper towels.

### Decontamination

To decontaminate the couch repeat the above steps but using a dilute solution of Hypochlorite and warm water (10,000ppm) instead of warm water and soap. At the end of the procedure discard all cleaning materials in a safe manner and wash hands thoroughly.

## 6. Troubleshooting

In the unlikely event of the couch failing to operate and having carried out the normal practical fault finding steps below then please contact our Customer Service Team on +44 (0)1449 767887 or email [customerservice@plinthMedical.com](mailto:customerservice@plinthMedical.com). **Please have the serial number to hand before making contact so we can help you more efficiently.**

Fault	Possible Cause	Remedy
Couch is unstable	Uneven floor	Move couch to flat floor
	Damaged Castor	Replace Castor
All motors will not work	Power disconnected	Connect power supply
	Fuse Blown	Replace fuse in plug
	Hand/ Footswitch disconnected	Check the switch is fully connected to the motor
One motor will not work but others working	Lead from height motor/control box not connected to slave motor	Check and connect all leads
	Fault with switch	Replace switch
	Fault with control box	Replace control box
	Fault with motor	Replace motor
Motor sinks	Switch permanently operated	Unplug and re-connect switch
	Motor fault	Replace motor
Backrest will not work (501A)	Gas spring incorrectly adjusted (not being triggered)	Rotate gas spring until the pin is just in contact with the lever (2-3mm play required)
	Gas spring faulty	Replace gas spring
Backrest sinks under load (501A)	Gas spring incorrectly adjusted (permanently triggered)	Rotate gas spring until the pin is just in contact with the lever (2-3mm play required)
Patient Grab Handles don't lock	Thread in locking lever stripped	Replace locking lever(s)
	Thread in Grab Handles stripped	Replace Grab Handles

## 7. Maintenance

Plinth Medical Ltd products are designed to be maintenance free. However keeping your Plinth products clean and regularly checked will assist in prolonging their working life. The following is a guide of simple checks that the user can carry out on a six monthly basis. We would also recommend an annual service visit by a Plinth Medical trained engineer.

### **WARNING**

**Disconnect couch from electrical supply before commencing any of the following checks.**

Examine the couch for any signs of damage. Pay particular attention to all nuts, bolts and fasteners to check they are present and tight but not over tight.

Upholstery bolts should all be checked (each section has between 2 and 6 No. M6 bolts), they should all be present and tight.

Check gas struts (if fitted) and ensure that they operate through the full range of movement and lock fully.

Check hinge pins are lubricated.

Check main couch nylon pivot bearings are lubricated sufficiently.

Examine mains and switch cables for any damage, cuts, kinks, abrasions etc. These must be replaced if necessary.

Check mains lead, switch cables and slave motor leads are all correctly and securely attached.

Check correct plug fuse is fitted (5A).

### **WARNING**

**Any electrical checks or work other than the visual inspection above must be performed by a qualified electrician.**

**Do not connect BLUE or BROWN wires to the earth terminal of a plug.**

## **8. Guarantee and Service (UK only)**

Plinth Medical Ltd offer a 5 year parts guarantee on all 500 Range products delivered from January 2013 and a lifetime frame guarantee. The only exclusion to this guarantee is for negligent damage or damage to upholstery coverings. This guarantee does not require registration of the product as we can trace it from its serial number, however in the event of the serial number being removed, missing or unreadable then this may void the guarantee. These terms do not affect your statutory rights.

**In addition to the above Plinth Medical Ltd can offer both extended warranties and service contracts. For further information about either of these please contact:**

Customer Service  
Plinth Medical  
Barric Lane  
Occold  
Eye  
Suffolk  
IP23 7PX  
Tel: 01449 767887  
Mail: [customerservice@plinthMedical.com](mailto:customerservice@plinthMedical.com)

In the event of returning a product or part to us then please follow the instructions for cleaning under section 5 before enclosing it in suitable packaging and returning it to the above address. In addition please ensure there is a statement confirming that it has been decontaminated and what the fault is along with relevant contact details.

### **Worldwide**

Please contact the distributor you purchased the couch from for service and support in your country. If you are unable to do so then please contact us in the UK and we will refer you to our local representative.

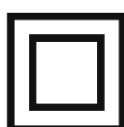


## 9. Technical Specifications

	501	5031A	501D	501P
Top Length (cm)	185	120	185	138
Top Width (cm)	58	58	58	58
Backrest length (cm)	N/A	63	N/A	N/A
Overall Width (cm)	76	76	76	76
Overall Length (cm)	185	185	185	138
Height Range (cm)	51-97	51-97	51-97	51-97
Max Working Load	160kg	160kg	160kg	160kg
Control	Hand Switch	Hand switch	Hand switch	Hand switch
<b>Electrical Data 220/240v</b>				
Motor(s)	Linak LA31 x 2	Linak LA31 x 2	Linak LA31 x 2	Linak LA31 x 2
Control Box	Linak CB09	Linak CB09	Linak CB09	Linak CB09
Current	1.5A	1.5A	1.5A	1.5A
Power	360W	360W	360W	360W
Mains Plug Fuse	5.0A x 1	5.0A x 1	5.0A x 1	5.0A x 1
Internal Fuse	1.5A x 1	1.5A x 1	1.5A x 1	1.5A x 1
System Voltage	24v	24v	24v	24v
IP Rating	IPX4	IPX4	IPX4	IPX4
<b>Electrical Data 110/120v</b>				
Motor(s)	Linak LA31 x 2	Linak LA31 x 2	Linak LA31 x 2	Linak LA31 x 2
Control Box	Linak CB09	Linak CB09	Linak CB09	Linak CB09
Current	2.7A	2.7A	2.7A	2.7A
Power	360W	360W	360W	360W
Mains Plug Fuse	5.0A x 1	5.0A x 1	5.0A x 1	5.0A x 1
Internal Fuse	3.0A x 1	3.0A x 1	3.0A x 1	3.0A x 1
System Voltage	24v	24v	24v	24v
IP Rating	IPX4	IPX4	IPX4	IPX4

### IEC 601-1 Electrical Safety Classification

All electric models are double insulated Type B equipment and marked as such.



Double Insulated



Type B Equipment

## 10.Revisions to Manual

Pages	Issue No	Name	Date
All	Manual - 01	Niall Dyer	13.06.2017

**Plinth Medical**  
**Barric Lane**  
**Occold**  
**Eye**  
**Suffolk**  
**IP23 7PX**  
**ENGLAND**

Plinth Medical Ltd In association with Plinth 2000 are an ISO Audited company to  
ISO9001:2008



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