

Plinth | Medical



Echocardiography Couch

Model: 503TEC

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 250kg 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 any time.

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.

Retractable Castors

The castors can be operated from either side of either end of the couch. Press the pedal down to engage the castors and lift the pedal to retract the castors.

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

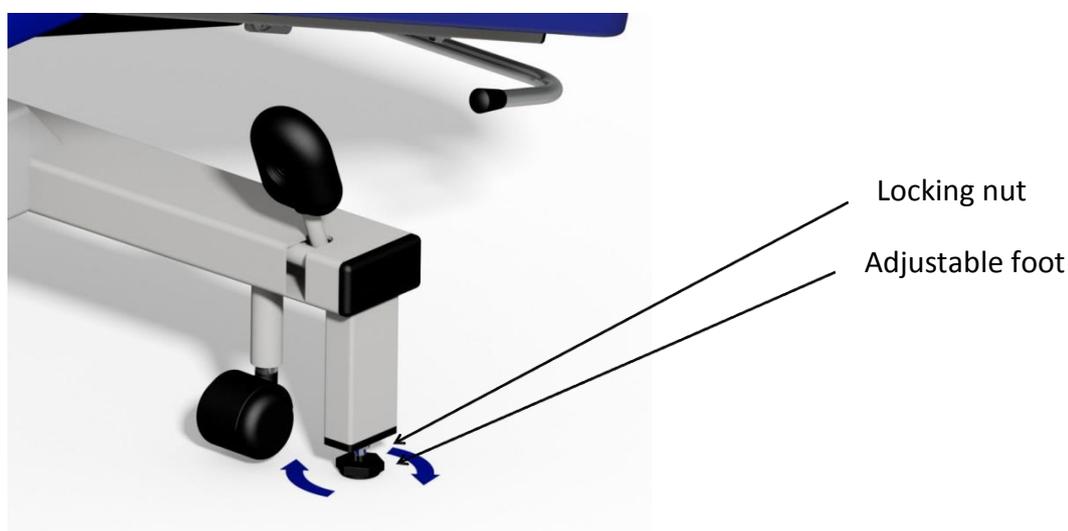
WARNING

Castors must be retracted before the couch is used and whilst patients get on or off the couch.

Care should be taken to ensure patients do not trip over any part of the couch when getting off.

Adjustable Foot

Fitted to the head end of the couch is an adjustable foot. This is designed to stabilise the couch and must be set before use. The foot should be wound in/out until it is firmly in contact with the floor whilst the castors are retracted. Check that the couch is firm and stable and then adjust the lock nut back up against the couch leg to lock the adjustable foot in position. Incorrect adjustment will result in the couch being unstable and the wheel pedals difficult to operate.



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 1 model of Echocardiography Couch; Model 503TEC. It features 3 motors operating height, tilt and back rest.

Electrical Operation General

WARNING

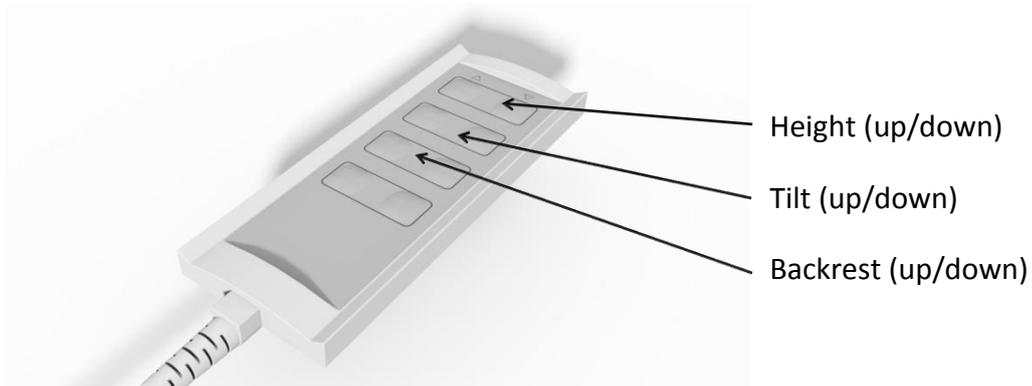
Safely position patient before operating any functions.

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 (hand)

A standard fitment to the Echocardiography Couch is a single hand control able to operate all electrical functions.

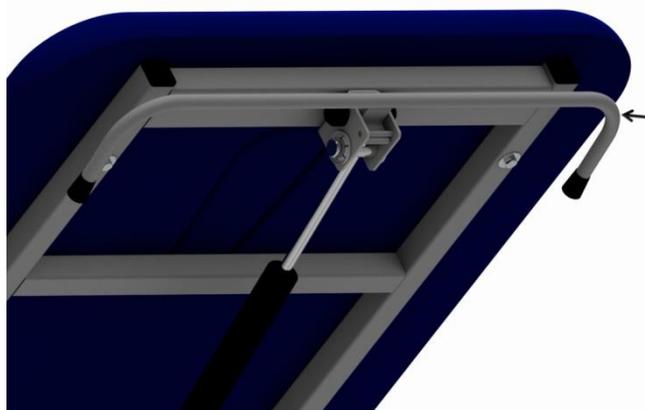


Electrical Operation (foot)

As an option this couch may be supplied with a foot switch to operate the electrical functions. It will operate in the same way as the hand switch but must be placed on the floor and operated by foot.

Manual Foot Section

Unless motorised (cost option) the foot rest is manually operated. The operation is via a gas spring mechanism triggered with a lever as shown below:

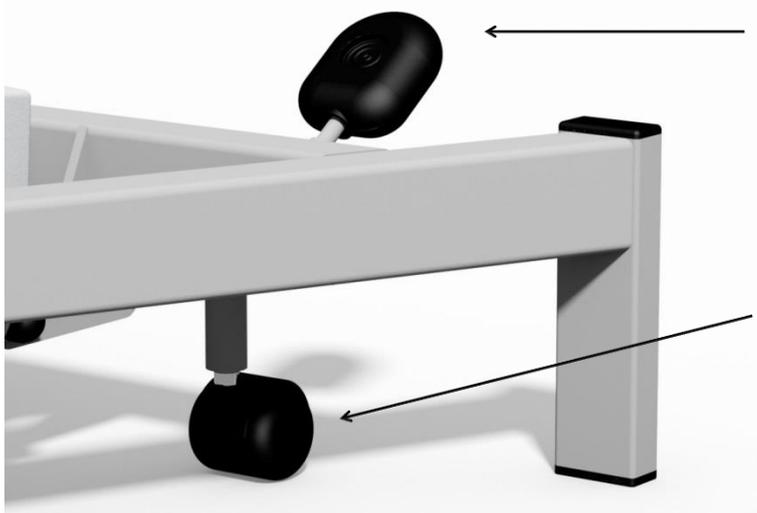


Press the lever to adjust the section. Support the section whilst adjusting and release the lever to lock in the desired position.

Retractable Castor Operation

The castors fitted to this couch are 50mm retractable swivel castors. They are operated in pairs at each end of the couch via the black wheel pedals.

NOTE – the castors are not designed for patient transport.



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

Castor

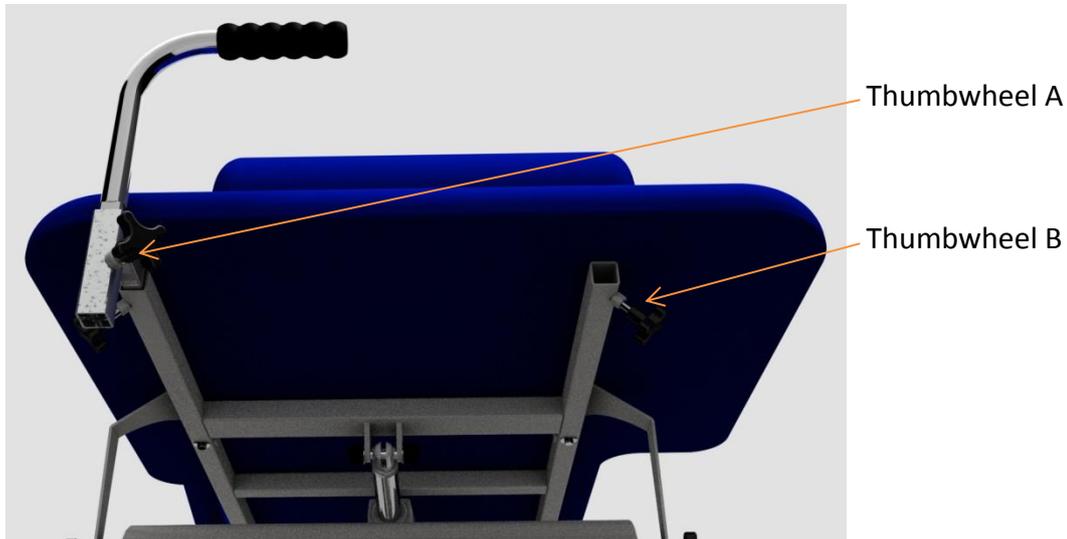
WARNING

Castors must be retracted 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.

Handgrip Operation

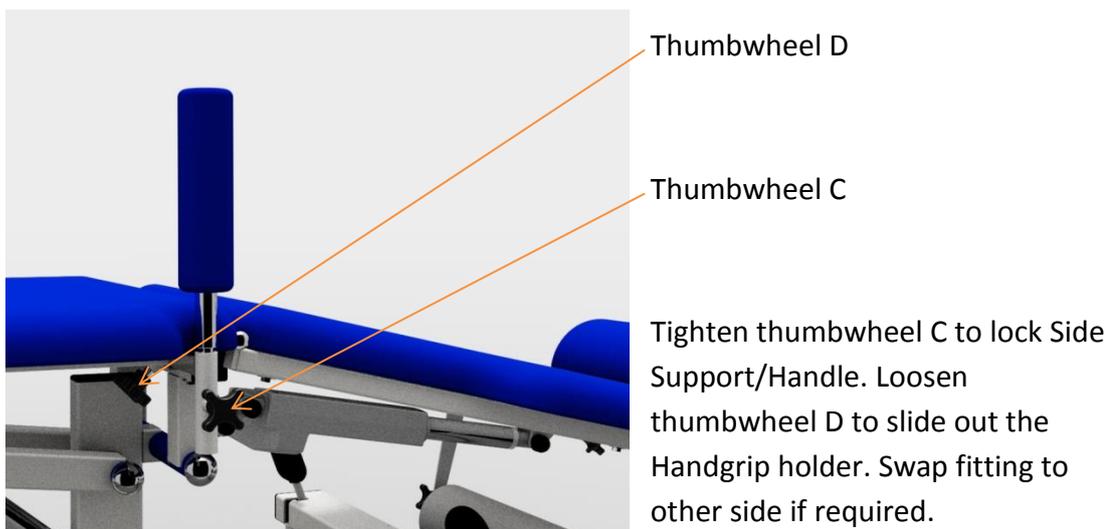
The couch is supplied as standard with a patient handgrip which can be fitted either side at the head end. This is operated and adjusted as follows:



Loosen thumbwheel A to rotate handgrip into desired position. Loosen thumbwheel B to slide out the Handgrip holder. Swap fitting to other side if required.

Side Support/Handle

In the same way that the Handgrip can be moved from left to right side of the couch, the Side Support/Handle may also be moved:



WARNING

The Handgrip and Side Support must be properly fixed in position whilst in use.

4. Accessories Operation

Paper Roll Holder and Head Cushion are included as standard equipment with the Echocardiography Couch. Other options are also available to expand the usefulness of the couch:

Paper Roll Holder



Paper roll is replaced by removal of one or the other of the plastic knobs, sliding the bar partially through the leg of the holder and then fitting the tube over the bar. Re fit in the reverse order.

Head Cushion

A removable head support cushion is supplied as standard and has an adjustable elastic strap to ensure a secure fixing. The position of the cushion may be adjusted by simply sliding it up and down the section. To remove simply slide off the end.



Battery Backup

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

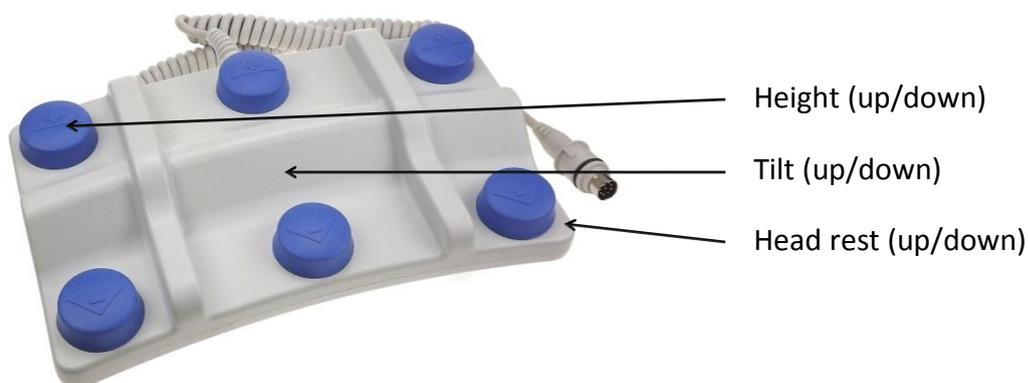
CAUTION

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

Battery operation is available as an option if required.

Footswitch

An optional fitment footswitch may be specified for the couch and will look similar to the one pictured below. Note that the switch will vary depending on the model of couch and the number of motors fitted. The example below is for the standard 503TEC (3 motor couch).



For couches fitted with four motors the sequence shown above will remain with the fourth row of buttons operating the Foot rest.

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. **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 |
| | Adjustable foot | Check presence, condition and adjustment of foot |
| 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 |
| Leg rest will not work (manual version) | 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 |
| Leg rest sinks under load (manual version) | Gas spring incorrectly adjusted (permanently triggered) | Rotate gas spring until the pin is just in contact with the lever (2-3mm play required) |
| Handgrip slips or is loose | Locking thumbwheels not correctly tightened | Correctly tighten locking thumbwheels |
| | Thumbwheels damaged from over tightening | Replace thumbwheels |

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 and not rusty.

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 Premium 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

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

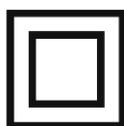
Please contact the distributor you purchased the couch from for service and support in your country. If you are unable to do so then please contact us in the UK and we will refer you to our local representative.

9. Technical Specifications

| | | | | |
|---------------------------------|-----------------------|--|--|--|
| | 503TEC | | | |
| Head Length (cm) | 90 | | | |
| Seat Length (cm) | 56 | | | |
| Foot Length (cm) | 63 | | | |
| Width (cm) | 84 (max) | | | |
| Overall Length (cm) | 210 | | | |
| Height Range (cm) | 53-100 | | | |
| Max Working Load | 250kg | | | |
| Control | Hand switch | | | |
| Electrical Data 220/240v | | | | |
| Motor(s) | Linak LA31 x 3 | | | |
| Control Box | Linak CB09 | | | |
| Current | 1.5A | | | |
| Power | 360W | | | |
| Mains Plug Fuse | 5.0A x 1 | | | |
| Internal Fuse | 1.5A x 1 | | | |
| System Voltage | 24v | | | |
| IP Rating | IPX4 | | | |
| Electrical Data 110/120v | | | | |
| Motor(s) | Linak LA31 x 3 | | | |
| Control Box | Linak CB09 | | | |
| Current | 2.7A | | | |
| Power | 360W | | | |
| Mains Plug Fuse | 5.0A x 1 | | | |
| Internal Fuse | 3.0A x 1 | | | |
| System Voltage | 24v | | | |
| IP Rating | IPX4 | | | |

IEC 601-1 Electrical Safety Classification

All 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 |
| | | | |

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