keeping CPM simple...

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TECHNOLOGIES, LTD.



PHOENIX KNEE CPM

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Operators Manual

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Warranty Information	Product Specifications	Packing Instructions	Parts List and Ordering Information	Calibration & Pause Procedure (Phoenix 1850)	Calibration & Pause Procedure (Phoenix 1800)	A Simple Procedure to Clear the Carbon from the Phoenix Motor	Care and Cleaning of the Phoenix CPM	CARE & MAINTENANCE	Changing the Foot Cradle for Pediatrics or Short Legs	Operating the Phoenix 1850 Control Pendant	Operating the Phoenix Knee CPM Turning the unit Off/On Operating the Phoenix 1800 Control Pendant	SET UP Continued Adjusting the Leg Cradle	SET UP (Step by Step) Attaching the Softgoods (Pads)	Unpacking the Device Features	Safety Precautions	Introduction	Table of Contents



Comfortable Accurate Motion



Axis to Axis Motion provides tracking of the leg through a full range of motion.



The unique motion no longer pushes from the foot. The Phoenix lifts the leg at the thigh and bends the knee from the calf. This motion reduces load to the knee and provides greater comfort for the patient.

Congratulations on your purchase of the Phoenix Knee CPM by McKelor Technologies. The Phoenix Knee is designed to provide years of reliable use in both the hospital and home environment. The Phoenix is used for the rehabilitation of the injured or post operative knee and provides both flexion and extension. No longer using motion that pushes from the foot, the Phoenix lifts from the thigh while bending the knee from the calf. This method of motion results in greater comfort for the patient, while providing an accurate range of motion. The easy to use hand-held controller and adjustable leg cradle allow the physician or therapist the ability to customize therapy programs that meet the needs of the individual patient.

Read Before Adjusting or Operating Unit

It is recommended that all clinicians and support personnel responsible for the proper operation of the Phoenix Knee CPM become thoroughly familiar with its capabilities and proper operating procedures prior to actual patient use. Skill at setting up the Phoenix Knee will come with experience and practice.

SAFETY PRECAUTIONS

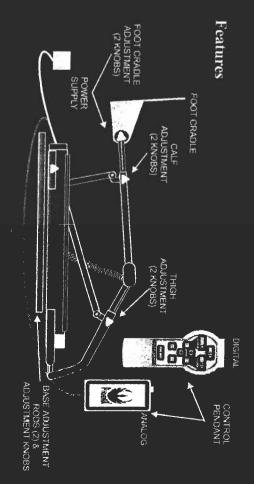
- 1. Read and understand all instructions
- 2. Follow all warnings and instructions marked on the product
- 3. Never install the wall transformer in wet locations.
- 4. Never touch any exposed or uninsulated wires or terminals unless the transformer has been unplugged.
- 5. Unplug this product from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use only a damp cloth.
- 6. Do not use this product near water.
- 7. This product should be operated only from the type of power source indicated on the label.
- 8. Do not allow anything to rest on the power cord. Do not place the power cord in a location where a person may trip, abuse or move equipment over or near it.
- 9. Do not over load or use extension cords as this may result in the risk of fire or electric shock.
- If at any time during the therapy the patient experiences extreme
 pain or discomfort, stop therapy and consult their physician.
 Unplug the unit from the wall outlet and refer servicing to
- 11. Unplug the unit from the wall outlet and refer servicing to qualified personnel under the following conditions:
- -If the power cord is damaged
- -If liquid is spilled into the product
- -If the unit is exposed to rain or water
- -If the unit has been dropped or the casing has been damaged
- -If a change in performance is noted
- -If the unit does not operate normally by following the operating instructions
- 12. Adjust only the controls that are covered by the operating instructions.

UNPACKING THE DEVICE

Before unpacking, check the carton for damage. Report any substantial damage to the shipper. Sowe the packaging it provides all the protection that is required under warranty, if the unit is ever returned for servicing.

Contents of the container

- CPM Cradle Assembly with control pendant
- 2. Foot Cradle Assembly
- 3. 1 Set of Softgoods (Pads)
- Instruction Manual
- 5. 2 Adjustment Rods
- → Remove the Phoenix™ Knee CPM assembly from the box.
- → Remove the Foot Cradle Assembly.
- → Slide the two tubes of the Foot Cradle into the two tubes of the calf section of the CPM. Secure by tightening the two knobs.
- → Plug the transformer into a standard wall outlet.



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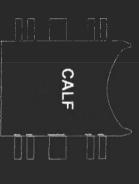
SET UP (STEP BY STEP)

Attaching the Softgoods (Pads)

Secure the calf and thigh pads to the calf and thigh sections of the CPM using the Velcro^w straps.



Note: The thigh and calf pads form a trough that allows you to align the knee axis with the knee axis of the CPM.



Foot Piece

Slide the pocket of the foot piece over the end of the foot assembly and secure to the Velcro."



POCKET

STRAPS

STRAPS

Straps maybe used to secure the thigh or calf.

Softgoods (Pads) are intended for single patient use only. The pads may be cleaned by hand using a mild detergent and warm water.

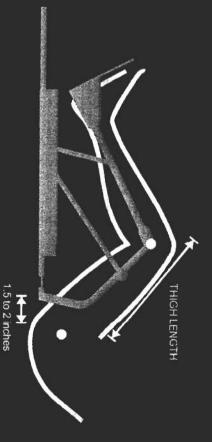
Velerous a trademark of Velero USA

SET UP (Continued)

Adjusting the Leg Cradle

Correct measurement and adjustments to the Leg Cradle are essential to assuring patient comfort and proper range of motion.

- ep 1 Adjusting the Thigh Cradle Measure the distance from the greater trochanter to the femoral condyle. Adjust the thigh cradle by loosening the adjustment knobs, sliding the thigh cradle to the proper length and securing the two knobs. Using your measurement, adjust the length of the thigh cradle by placing the tape measure about 2 to inches from the hip pivot assembly and measuring to the knee pivot.
- Step 2 Position the CPM so that the hip assembly is 1.5 to 2 inches from the patient's buttocks. The knee axis should align with the axis of the knee pivot assembly.
- Step 3 Adjusting the Calf Cradle Adjust the calf cradle by moving the foot plate so that it meets the sole of the foot. To adjust the calf cradle loosen the adjustment knobs and slide the foot assembly to the proper length and secure the two knobs. It is not necessary to have the sole of the foot pressing against the foot plate. Leave a fingers width (1/2 inch) between the sole of the foot and the foot plate.
- p 4 Adjusting the Foot Plate Angle The foot assembly can be adjusted to patient comfort. Loosen the adjustment knobs, position the foot and secure the knobs.



OPERATING THE PHOENIX" 1800 CPM

Turning the unit ON/OFF

turned ON it will beep 3 times.

BUTTO ON/OFF

The Control Pendant

control knobs: The control pendant consists of four (4)

Speed:- 1° to 3° per second Pause:- 0 to 30 seconds Extension: -5° to 95° Flexion: 10° to 110°

SPEED

turned back on, it reverses direction unusual pain or discomfort. When the unit is to turn the unit off if he or she experiences any control pendant, allows the patient the ability The ON/OFF button, located at the top of the



required for normal operation NOTE: A 15 degree difference between FLEX/EXT settings is

knobs to the desired angles.

- 12 Set Speed and Pause
- س Press the RED Start /Stop button at the top of Pendant.
- Close Pendant cover and secure with the Velcro™ strap.

you will hear a beeping noise if the FLEX/EXT angles overlap. 15 degrees between FLEX/EXT knobs. The unit will stop and

WARNING: Make sure your angle settings are greater than

Operating the Phoenix™1850™ Control Pendant

Turning the unit ON/OFF

The Pendant allows you to control the following functions:

Speed:- 1° to 3° per second Flexion: 10° to 110° Extension: -5° to 95°

Pause:- 0 to 30 seconds

she experiences any unusual pain or discomfort. When the unit is pendant display allows the potient the ability to stop the unit if he or The RED STOP/START button located at the bottom of the control

depress the appropriate button and simultaniously depress the TO SET: EXTENSION PART, FLEXION PART, SPEED SPO OR PAUSE restarted it will reverse direction.

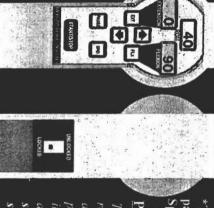
UP or DOWN button to increase or decrease settings

HOW TO LOCK IN SETTING

Stop the unit and enter desired changes, then depress the START/STOP button. New settings are now locked.

Speed spea buttons. The meter keeps track in tenth of an hour readings through the pendant by simultaneously pressing the Flexion and PATIENT COMPLIANCE METER: Patient compliance can be monitored Example: 25.4 = (25 hours & 24 minutes)

*To clear the compliance meter for a new



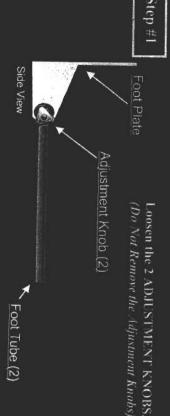
Speed and Pause buttons simultaneously patient simply depress the Extend, Flex,

Patient LOCK OUT Switch:

switch to the "unlocked" position setting changes simply move the position. Attempting to modify settings and slide the switch to the "locked" remove the plate located on the back display to read "LOC". To make in the locked position will cause the To lock the patient out of the controls

Changing the Foot Cradle for Pediatrics or Short Legs

Remove the FOOT CRADLE



Rotate the both FOOT TUBES 180° so that they are pointed in the opposite direction.

Tighten the 2 ADJUSTMENT KNOBS.

Adjustment Knobs (2)

Foot Tube



Step #3

opposite direction, slide the FOOT CRADLE back

After both FOOT TUBES are rotated in the

Note: When unpacking the Phoenix

the Foot Cradle is in the pediatric position

Care & Maintenance

Care and Cleaning of the Phoenix™CPM

A Simple Procedure to Clear the Carbon from the Phoenix™Motor

Calibration & Pause Procedure (Phoenix™1800™)

Calibration & Pause Procedure (Phoenix ™ 1850 ™)

Parts List and Ordering Information

Packing Instructions