

# THE PHOENIX<sup>TM</sup> SERIES

## MODEL 1800 KNEE CPM OPERATOR'S MANUAL



[www.mckelor.com](http://www.mckelor.com)

**MCKELOR**  
TECHNOLOGIES, LTD.

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# Phoenix Model 1800 Knee CPM Operator's Manual

## Section 1

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# Phoenix Model 1800 Introduction

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Thank you for choosing the **Phoenix Model 1800 Knee CPM** by MCKELOR TECHNOLOGIES, LTD.

The Phoenix Model 1800 provides effective continuous passive motion therapy to the post-operative or injured knee. The Model 1800 is accommodating to adult and pediatric (petite) patients providing a comfortable fit for the patient. The analog dial control pendant is simple to program and allows both staff and patient to change settings easily. Sturdy, mild steel construction, compact design and overall functionality make the Phoenix Model 1800 ideal for hospital and home environments.

## **Read before operating or adjusting the Phoenix Model 1800 Knee CPM.**

It is recommended that all clinicians and support personnel responsible for the proper operation of the Model 1800 Phoenix Knee CPM become thoroughly familiar with its capabilities and proper operating procedures prior to actual patient use. Please contact customer service at 800-273-5233 with questions or visit our digital headquarters at [www.imckelor.com](http://www.imckelor.com) for online training options.

# Safety Precautions

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1. Read and understand all instructions.
2. Follow all warnings and instructions marked on the product.
3. Connect power supply to grounded electrical outlets only. Use surge protector to further protect your unit.
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 product near water.
7. This product should only be operated 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, damage or move equipment over or near it.
9. Do not overload or use extension cords as this may result in the risk of fire or electric shock.
10. **If at anytime during the therapy the patient experiences extreme pain or discomfort-STOP-turn the unit off and consult their physician.**
11. Unplug the unit from the wall outlet and refer to qualified personnel under the following conditions:
  - If the power cord is damaged
  - If liquid is spilled into the product
  - If the unit has been exposed to rain or water
  - If the unit has been dropped or the frame 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.
13. **Warning:** Equipment not suitable for use in presence of a flammable anesthetic mixture with air, oxygen or nitrous oxide.

# Unpacking your Phoenix Model 1800

When receiving your Phoenix Model 1800, examine the container and unit and report any substantial damage to the shipper. Do not discard your Phoenix shipping container - it provides required protection for your unit during shipping and must be used when returning your unit for any warranty service. Unapproved or badly damaged containers will be replaced and billed accordingly.

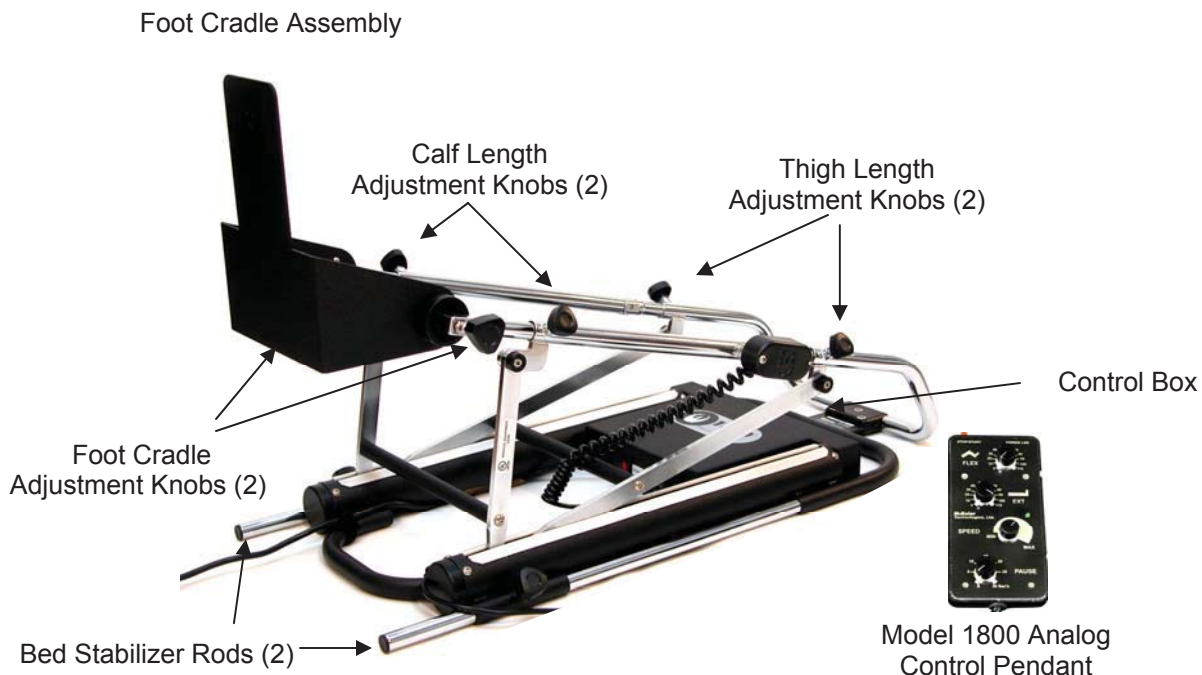
**Phoenix Shipping Carton  
Part No. Skit 1824**

## Container Contents

- > CPM Cradle Assembly with Control Pendant
- > Foot Cradle Assembly
- > Two (2) Bed Stabilizer Rods
- > One (1) Set of 1828-1 Phoenix Softgoods
- > Operators Manual, Quick Reference Guide, Training CD

Remove the Phoenix Knee CPM from the container and slide the Foot Cradle Assembly out. Loosen the large knobs on the Foot Cradle Assembly and position in the upright position. Tighten knobs.

## Features



# Softgoods Application

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**MCKELOR Softgoods - 1828-1** - are designed specifically for use with Phoenix Knee CPM models. They provide a 'troughing' effect allowing proper alignment of the limb and a truer fit overall. Constructed with the highest quality materials, MCKELOR softgoods provide superior comfort and support for the patient.

**Each MCKELOR softgoods set includes five (5) pads total:**

- 1 - Foot Boot
- 1 - Calf Pad
- 1 - Thigh Pad
- 2 - Auxiliary Straps



Slide the pocket of the foot boot over the end of the foot plate and secure to the velcro.

Secure ankle support straps on the foot boot to the foot assembly tubes on both sides.

The calf pad is the smaller of the two square-shaped pads. Position the calf pad so that the cut-out is facing the thigh cradle. Peel the velcro strapping from the back of the pad, loop over the cradle bar of the unit and secure to the back of the softgood. Be sure not to pull the softgood tight, forming a trough to allow for proper alignment.

The thigh pad is the larger of the two square-shaped pads. Position the thigh pad so that the cut-out is facing the calf pad (the cut-outs will form a 'diamond' shape). Begin with the tab Velcro at the very end of the thigh pad. Secure this piece to the bottom of the thigh block\*\*. Peel the rest of the velcro strapping from the back of the pad, loop over the cradle bar of the unit and secure to the back of the softgood. Be sure to 'trough' the softgood, do not pull the softgood tight.

↑  
\*\* thigh block

The two (2) auxiliary straps may be used to secure the thigh and/or calf (do not secure too tightly...leave room for shifting).

**MCKELOR softgoods are intended for single patient use only.** Should the pads become soiled during use, spot clean by hand with mild detergent and warm water.

**MCKELOR softgoods are designed specifically for use with the Phoenix Knee CPM Series. Use of any other brand of CPM Softgoods may adversely affect performance of the Phoenix Knee CPM and result in discomfort or injury to the patient.**

**Reorder number for the MCKELOR softgoods: 1828-1**

# Patient Setup

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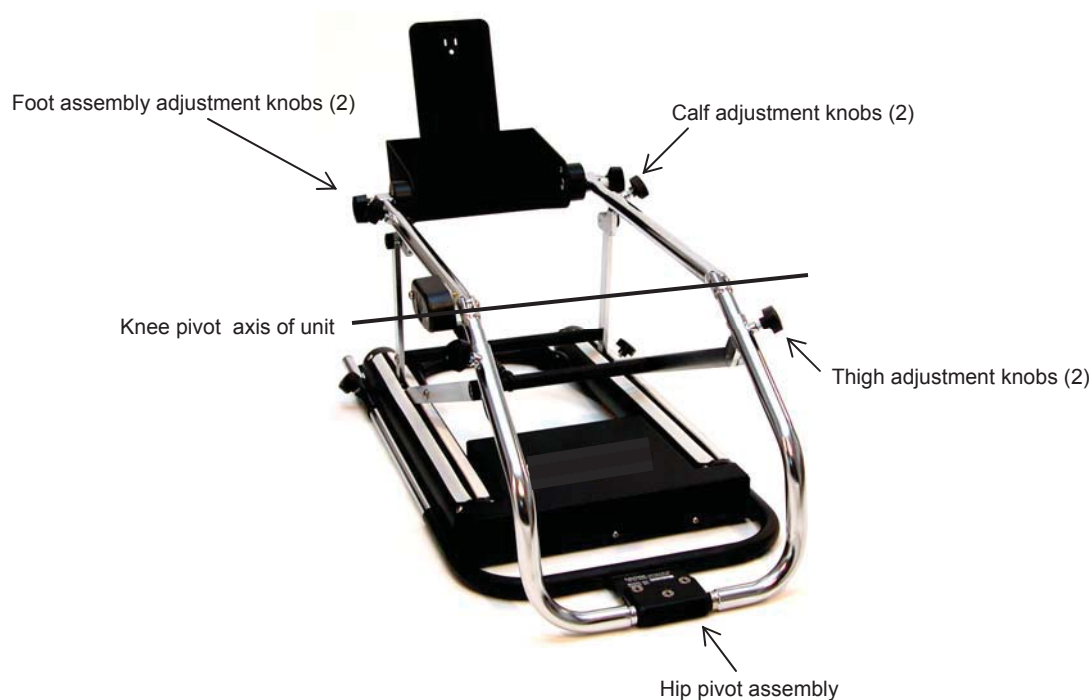
Correct measurement and adjustments are required to ensure patient comfort and compliance and to achieve desired range of motion. Check that the unit is at 0° during patient setup.

**Note: Use only on a stable surface. An unstable surface could result in injury to patient and damage to the device.**

## FITTING THE PATIENT

- > Determine the length of the patient's femur by measuring from the greater trochanter (hip joint) to the center or joint line of the knee.
- > Transfer this measurement to the thigh cradle beginning approximately 1.5 to 2 inches away from the hip pivot assembly measuring to the knee axis of the unit. Adjust the thigh cradle to match this measurement by loosening the thigh adjustment knobs and sliding the thigh cradle to the proper length.
- > Loosen the calf cradle adjustment knobs and extend the foot assembly. Do not remove this assembly -- only slide far enough for patient placement. Position the patient's leg in the unit, with softgoods in place.
- > Slide the foot assembly toward patient accordingly leaving one half inch gap between the patient's foot and the foot plate. Tighten the calf cradle adjustment knobs securely.
- > The foot assembly may be adjusted in plantar flex or dorsi flex positions. Loosen the adjustment knobs on the foot assembly, adjust the foot plate to the desired positioning and securely tighten the adjustment knobs.

**Remember: The goal is to align the knee axis of the patient with the knee pivot axis of the CPM**





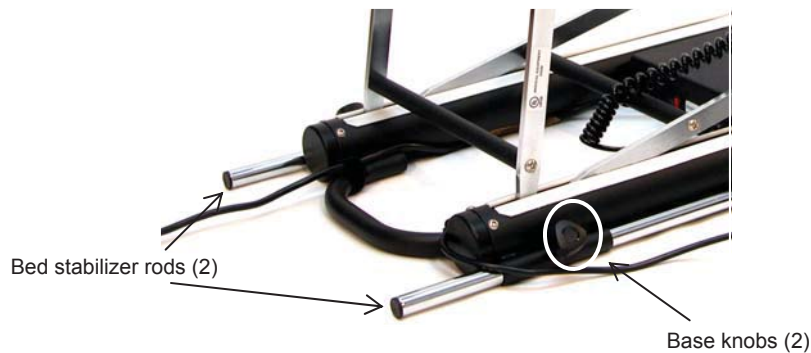
# Patient Setup

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## BED STABILIZING SYSTEM

Bed stabilizer rods are included in the base of the Phoenix Knee CPM. This system, in conjunction with the non-skid pad located on the bottom of the control box, effectively prevents migration or "movement" of the unit while on a patient.

- > Loosen the base knobs, extend the rods to the appropriate length and tighten the knobs securely.
- > Stabilize the rods against a solid barrier such as a foot board.



## PEDIATRIC AND PETITE PATIENT ADJUSTMENT

The Phoenix Knee CPM can adjust easily to accommodate pediatric and petite patients.

- > Loosen the calf adjustment knobs and slide the foot assembly out of the cradle.
- > Loosen the foot assembly adjustment knobs (do not remove).
- > Rotate both foot tubes 180 degrees so that they are facing the opposite direction. Tighten the foot assembly adjustment knobs.
- > Slide cradle back into the Phoenix and secure with the calf adjustment knobs.
- > Note: You may apply a strip of adhesive-backed loop Velcro to this side of the footplate for added stability of the foot boot softgood.

Pediatric and Petite Patient Setup





# Operating the Phoenix 1800 CPM

## POWER ON AND OFF

The ON/OFF switch is located at the base of the black control box. When the unit is powered ON it will beep 3 times and the green power indicator light on the hand-held control pendant will illuminate. This indicates that the unit is ready for use.

## PHOENIX MODEL 1800 KNEE CPM CONTROL PENDANT

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

1. Flexion: 10 to 110 degrees
2. Extension: -5 to 95 degrees
3. Speed: 1 degree per second at lowest setting, 3 degrees per second at highest setting
4. Pause: 0 to 30 Seconds\*

> To change the flexion and extension settings, simply turn the control knobs to the desired range of motion.

**Note: A 15 degree difference between flexion and extension is required for normal operation. Should the angle settings be close or overlap, the unit will stop and a continuous beeping alert will sound until the settings are corrected.**

> Set speed and pause by turning the corresponding knob.

> Press the red button at the top of the pendant to begin cycle or to stop the unit.

> Close the cover to protect analog dials, and secure with the Velcro strap.

**Patient must have access to hand-held control pendant at all times.** The Stop/Start button located at the top of the control pendant allows patient to stop the unit as needed. As a safety feature, the unit will travel in the opposite direction when the button is depressed again.



← Power indicator light

\*Pause option:

Phoenix Models are set to pause at the end of flexion and extension cycles. This setting can be changed to pause the Phoenix in extension only. See page 2-2 for details on this procedure.

# CARE & CLEANING OF THE PHOENIX

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Clean the Phoenix by using a mild disinfectant. Do not use aerosol cleaners or pour liquids directly on the unit. Use only a damp cloth.

Items listed below should be inspected, cleaned or replaced depending on their condition or appearance.

## **Cables:**

- Potentiometer Cable
- Pendant Cable
- Power Supply Cable

## **Labels:**

- Control Pendant Label
- Control Box Label
- Operator Instruction Label (Inside of 1800 Control Pendant)
- Goniometer Label on Knee POT (Phoenix 1800 Only)
- Serial Number Label

## **Velcro:**

- Footplate Velcro - 6"
- Plastic Hip Pivot Velcro—1" (Underneath)
- Control Pendant Velcro Strap
- Power Cord (Transformer) Velcro Strap
- Control Pendant Cable Strap

## **Skid Pads:**

- Skid Pad under Control Box

## **Knobs & Screws:**

- (4) Smaller Male Knobs for Thigh and Tibial carriage adjustments
- (2) Large Female Knobs for Foot Plate adjustment
- (2) Smaller Male Knobs for Bed Mount Rods
- (4) Pendant Screws (Inside of Control Pendant)
- Check tightness of all Allan Head Screws on front & back End Caps

## **Track Seals:**

- Clean & Check for tears - replace as needed

## **Clean:**

- Chrome parts should be polished using a chrome cleaner and polish purchased at most automotive stores
- Wipe or clean all cords
- Clean outside of Control Pendant and other areas that are dirty

# Product Specifications

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<b>Weight</b>	26 Pounds
<b>Length</b>	28 Inches
<b>Adjustable Length</b>	42 Inches
<b>Width</b>	13 Inches
<b>Range of Motion</b>	-5 to 110 Degrees
<b>Pause</b>	0 to 30 Seconds
<b>Limb Length</b>	20 to 42 Inches
<b>Calf Length</b>	11 to 24 Inches
<b>Thigh Length</b>	9 to 18 Inches

- > Voltage 120 Volts AC input/60 Hz/14 Volts DC@.73 amp
  
- > ENVIRONMENTAL CONDITIONS FOR TRANSPORTATION AND STORAGE
  - Recommended Ranges:
    - Temperature range within  $-40^{\circ}$  C to  $+70^{\circ}$  C
    - Relative humidity range within 10% to 100%
    - Atmospheric pressure range within 500 to 1060 hPa

# Warranty Information

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## LIMITED WARRANTY

MCKELOR Technologies, Ltd. (MCKELOR) warrants to the original buyer of this Phoenix Knee CPM series machine (the Unit) that the Unit will be free from defects in material or workmanship for a period of One Year from the date of original purchase from MCKELOR. This warranty does not cover defects resulting from damage by accident, abuse, misuse, misapplication, or unauthorized repairs or alterations made either by the customer or another party. MCKELOR reserves the right to determine whether the defective product falls into this category. MCKELOR makes no other warranties, expressed or implied (including, without limitation merchantability, fitness for a particular purpose, or against infringement of any patent), except expressly provided herein.

If the Unit does not conform to this warranty, MCKELOR will at its option repair or replace the defective Unit. The remedy of repair or replacement is purchasers' sole and exclusive remedy and will satisfy all of MCKELOR's liabilities, whether based on contract, tort, product liability, strict liability, or otherwise. In no event shall its liability in connection with any defective Unit exceed the sales price of such unit.

For this limited warranty to apply, buyer must provide MCKELOR with written notice of a claimed defect within thirty (30) days after the discovery, but no later than the expiration date of the warranty term. Within reasonable time following the receipt of such a notice, MCKELOR will advise the purchaser of the disposition of the Unit. Unless expressly authorized in writing, the defective Unit must be returned to MCKELOR for coverage. MCKELOR reserves the right to inspect the Unit to determine the claimed defect is within the coverage of this limited warranty.

**[www.mckelor.com](http://www.mckelor.com)**

## RETURNING YOUR PHOENIX FOR REPAIR

- > Do not discard the original packaging of your Phoenix Knee CPM. It provides required protection for your unit during shipping and must be used when returning your unit for service. Damages resulting from packaging unit in anything other than the required Phoenix container are the responsibility of the owner. Unapproved or badly damaged Phoenix containers will be replaced and billed accordingly.
- > Return Authorization Numbers are required. Contact Customer Support at 800.273.5233 with Serial Number, contact information and required repair description.
- > Ship your unit to our Technical Service Department at:  
MCKELOR TECHNOLOGIES, LTD.  
ATTN: (RA NUMBER)  
6312 SEEDS ROAD  
GROVE CITY, OH 43123

# Phoenix Model 1800 Knee CPM Operator's Manual

## Section 2 - Service & Maintenance

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# Phoenix Model 1800 Knee CPM Calibration Procedure

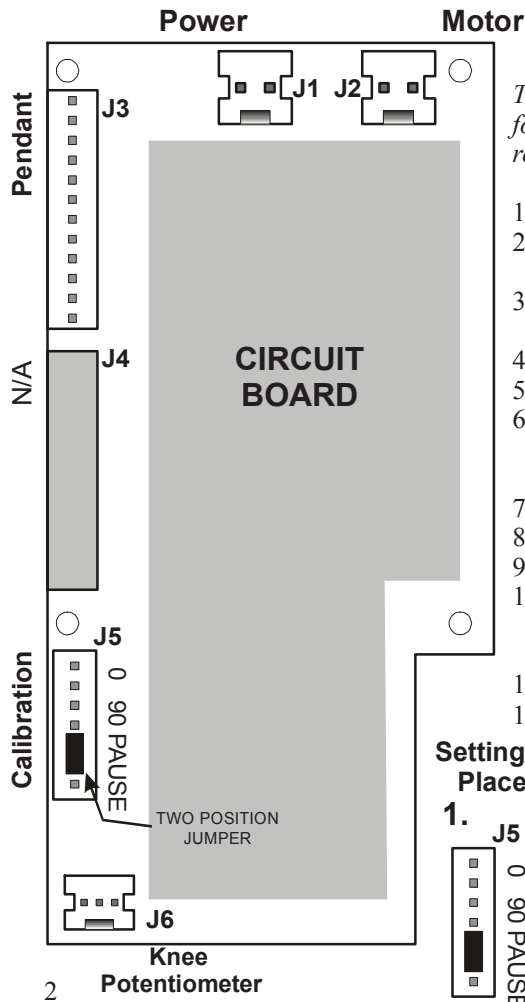
## ... Pause Option Procedure

**Use this procedure when:**

- Replacing the Circuit Board
- Replacing the Knee Potentiometer Assembly

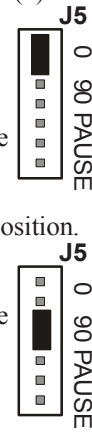
**Tools required:**

2 Position Jumper (Provided)

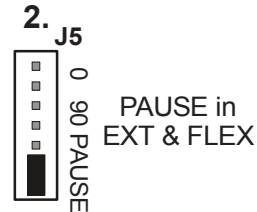
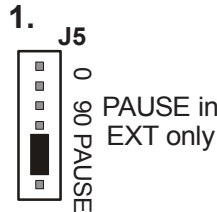


*The Calibration Procedure is the same for Circuit Board or Potentiometer replacement*

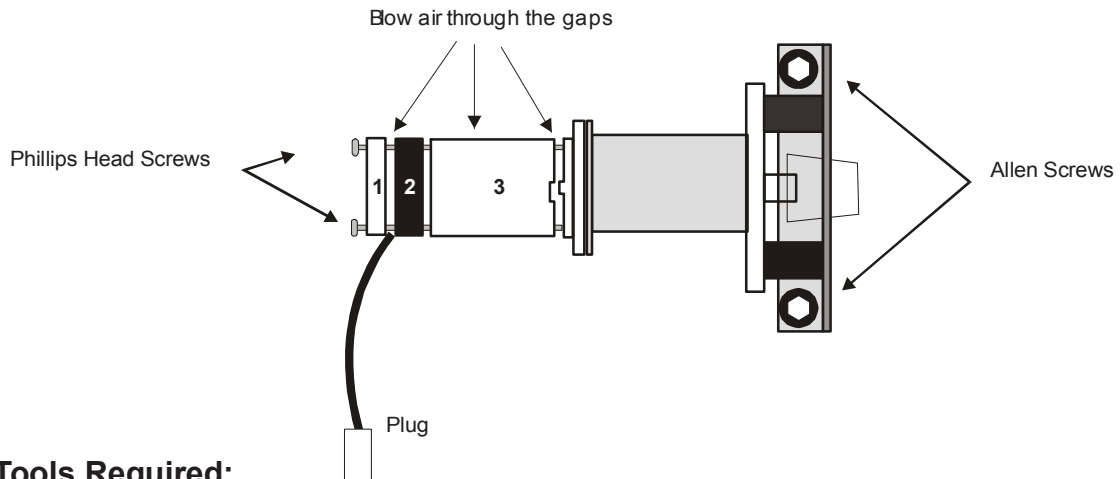
1. Turn the machine OFF.
2. Remove the two position jumper from J5.
3. Place the jumper on the zero (0) position.
4. Turn the machine ON.
5. Listen for 2 beeps.
6. Using the START/STOP button on the Pendant, move the unit to ZERO.
7. Remove the jumper.
8. Place the jumper at the 90 position.
9. Listen for 3 beeps.
10. Using the START/STOP button on the Pendant, move the unit to 90 DEGREES.
11. Remove the jumper.
12. The machine is calibrated.



**Setting the PAUSE feature  
Place the jumper as shown**



## Phoenix Knee CPM Series Motor Only - Preventative Maintenance Procedure



### Tools Required:

- 9/64 Allen Wrench
- Phillips Head Screwdriver
- Compressed Air

### Instructions:

1. Turn the power off to the unit.
2. Unplug the motor from the circuit board
3. Using the 9/64 Allen Wrench remove the allen screws that hold the Drive Assembly.
4. Remove the Drive Assembly.
5. Loosen the PhillipsHead Screws enough to create a gap between the 3 sections of the motor.

★ ***Be careful not to remove the screws*** ★

6. Blow enough air through the gaps (3) to clear the carbon build up.
7. Tighten the screws enough to secure the sections.
8. Return the Drive Assembly and test the unit.

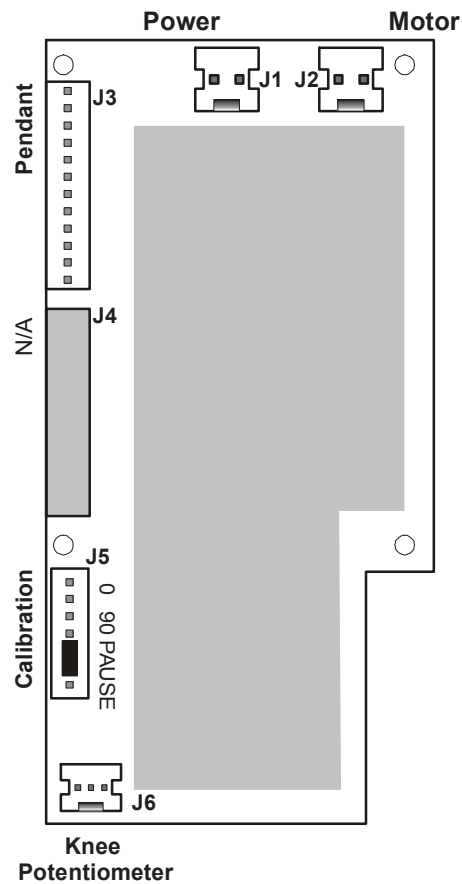


# Phoenix Model 1800 Knee CPM Circuit Board Replacement Procedure

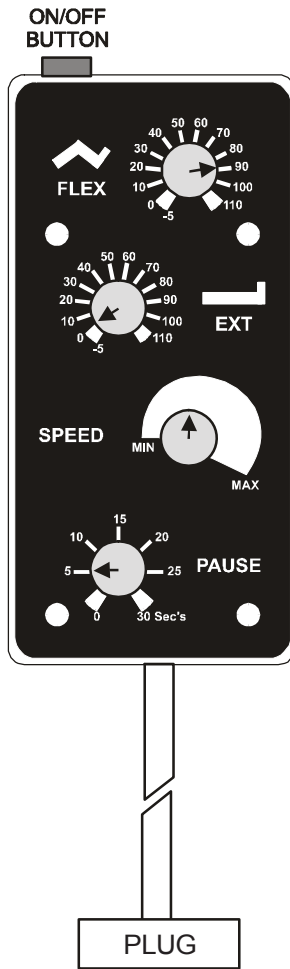
## Tools Required:

Phillips Head Screwdriver; small *nonmagnetic* Phillips Head Screwdriver

1. Turn the power OFF.
2. Remove the top cover of the Control Box. (5 Phillips Head Screws)
3. Unplug the motor, power, pendant and knee potentiometer connectors.
4. Using the NON-MAGNETIC screwdriver, remove the 4 screws holding the Circuit Board in place.
5. Replace with the new board and secure with the 4 screws.
6. Plug in the motor, power, pendant and potentiometer connectors.
7. Follow the CALIBRATION PROCEDURE.
8. Replace the top cover.



# Phoenix Model 1800 Knee CPM Control Pendant Replacement Procedure

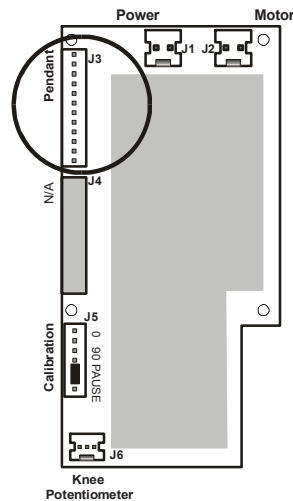


## Tools required:

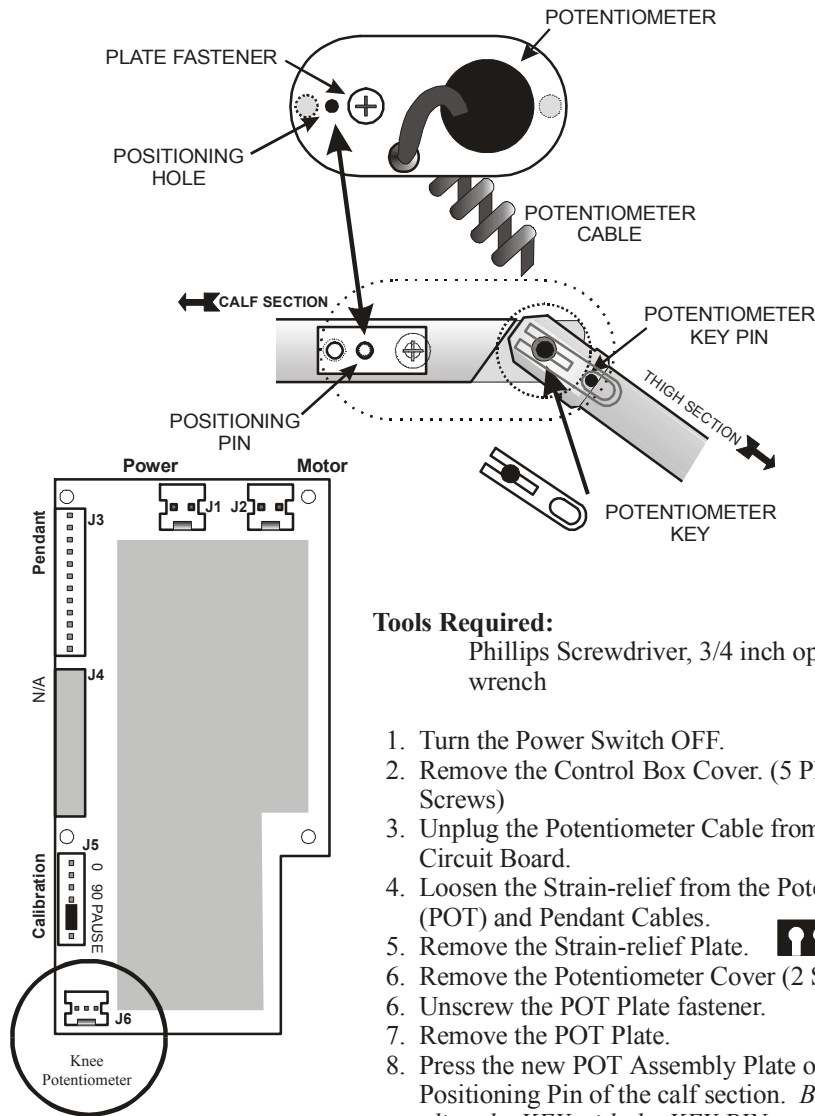
Phillips head screwdriver, 3/4  
inch open-end wrench, 1/8 inch  
Allen wrench

1. Turn the Power Switch OFF
2. Remove the Control Box Cover. (5 Phillips screws)
3. Unplug the Pendant Cable from J3 on the Circuit Board.
4. Loosen the Strain-relief from the POT and Pendant Cables.
5. Remove the Strain-relief Plate.
6. Using a 1/8 inch Allen wrench, remove the ground wire.
7. Remove the old Pendant.
8. Replace the ground wire.
9. Plug in the new Pendant.
10. Replace the strain relief plate and secure POT and Pendant Cables.
11. Replace the Control Box cover.

*Pendant is pre-calibrated.*




# Phoenix Knee CPM Series Knee Potentiometer Assembly Replacement Procedure



## Tools Required:

Phillips Screwdriver, 3/4 inch open-end wrench

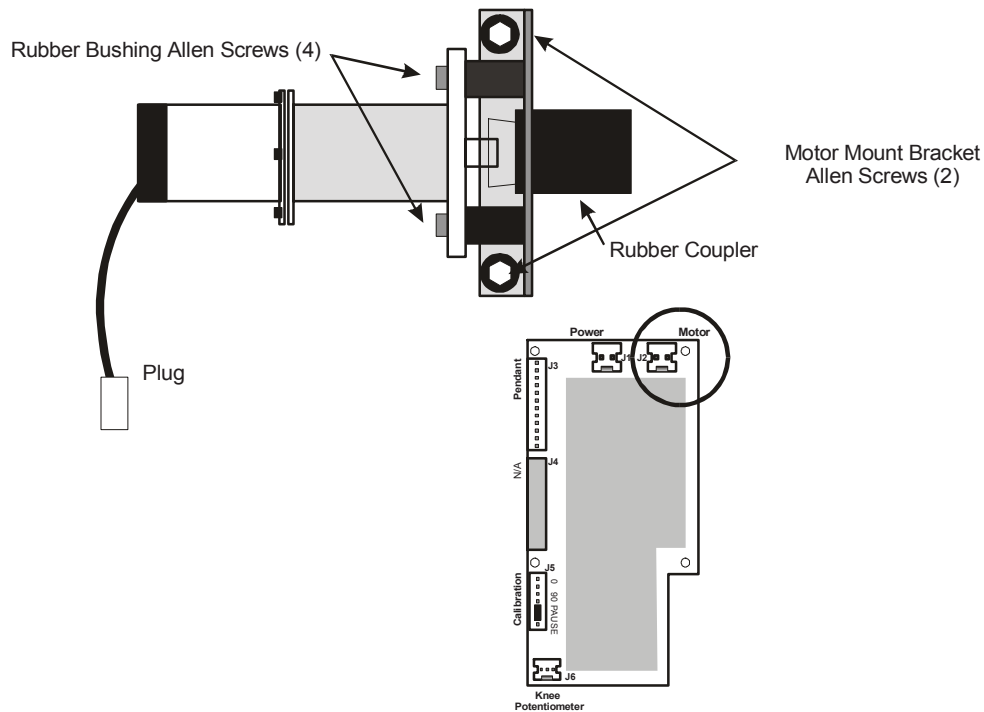
1. Turn the Power Switch OFF.
2. Remove the Control Box Cover. (5 Phillips Screws)
3. Unplug the Potentiometer Cable from J6 on the Circuit Board.
4. Loosen the Strain-relief from the Potentiometer (POT) and Pendant Cables.
5. Remove the Strain-relief Plate. 
6. Remove the Potentiometer Cover (2 Screws)
6. Unscrew the POT Plate fastener.
7. Remove the POT Plate.
8. Press the new POT Assembly Plate onto the Positioning Pin of the calf section. *Be careful to align the KEY with the KEY PIN on the Thigh Section.*
9. Secure the POT plate with the fastener.
10. Replace the POT and Pendant Cables. Secure the Strain-relief Plate.
11. Plug the POT Cable into J6 on the Circuit Board.
12. *Calibrate the Machine by following the Calibration instructions.*

# Phoenix Knee CPM Series Motor & Gearbox Replacement Procedure

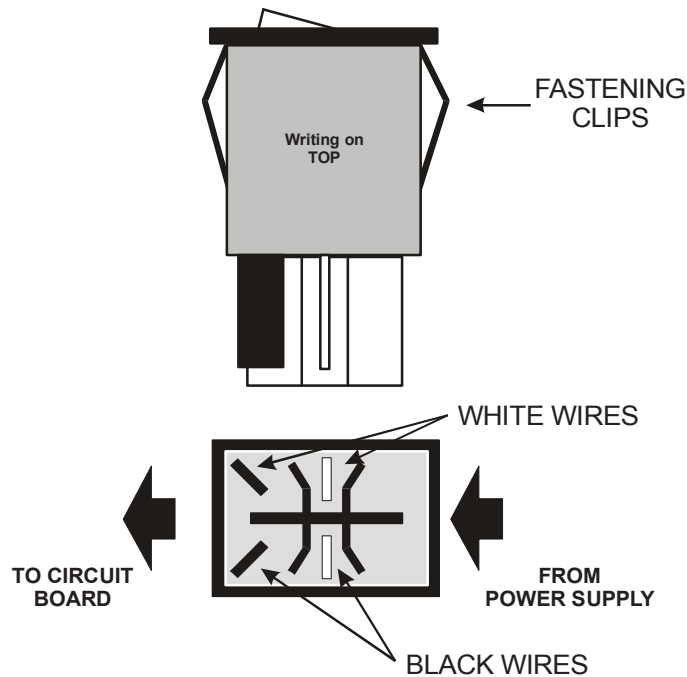
## Tools required:

Phillips Head Screwdriver, Small Flat Head  
Screwdriver, 9/64th Allen Wrench

1. Turn the Power Switch OFF.
2. Remove the Control Box Cover. (5 Phillips  
Screws)
3. Unplug the Motor from the Circuit Board.
4. Remove the Motor and gearbox assembly using the Allen  
Wrench to unscrew the two(2) screws from the motor  
mounting bracket.
5. Unplug the gearbox coupling from the rubber coupler.
6. Remove the motor mount bracket by removing the (4)  
Allen screws from the rubber bushings..
7. Attach the NEW motor and gearbox.
8. Plug the coupling into the rubber coupler.
9. Secure the motor mounting bracket with the two (2)  
screws.
10. Plug in the motor to the Circuit Board.
11. Replace the top cover.



## Phoenix Knee CPM Series On/Off Switch Replacement Procedure



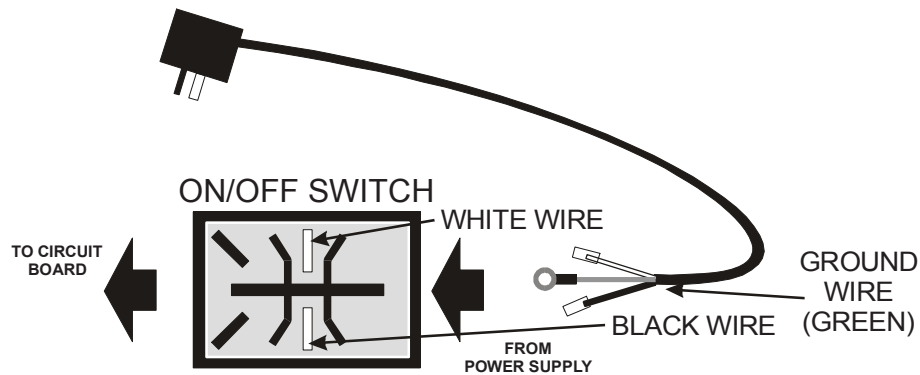
**Tools Required:**  
Pliers

*Caution: To avoid electric shock unplug the unit before beginning this procedure.*

1. Turn the Power Switch OFF and unplug unit from wall outlet.
2. Remove the Control Box Cover. (5 Phillips Screws)
3. Unplug the the 2 white and 2 black wires from the back of the ON/OFF switch.
4. Use the pliers to squeeze the fastening clips and push the switch out.
5. Press the new ON/OFF switch into position.
6. Plug in the WHITE and BLACK wires as indicated above.(See illustration)
7. Replace the cover.

# Phoenix Knee CPM Series

## Power Supply Replacement Procedure



### Tools Required:

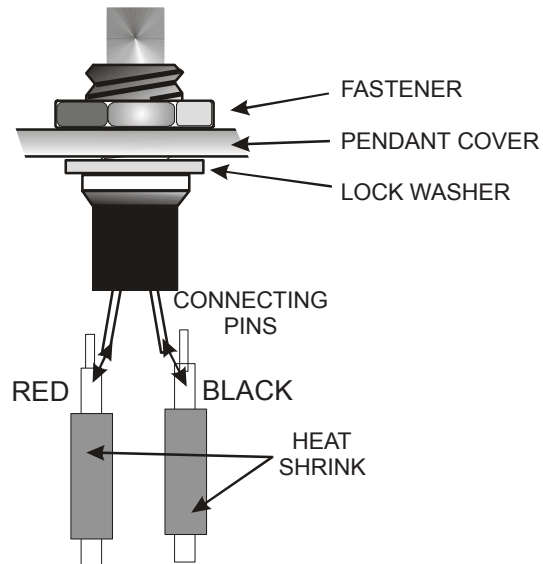
Pliers, Phillips Head Screwdriver

*Caution: To avoid electric shock unplug the unit before beginning this procedure.*

1. Turn the Power Switch OFF and unplug the unit from wall outlet.
2. Remove the Control Box Cover. (5 Phillips Screws)
3. Unplug the white and black wires from the POWER SUPPLY side of the ON/OFF switch. (See illustration)
4. Disconnect the green ground wire
5. Using the pliers squeeze the sides of the strain-relief. Push the strain-relief out.
6. Remove the power supply cord.
7. Thread the new Power Supply through the opening.
8. Replace the strain relief.
9. Plug in the white and black wires as indicated above. (See illustration)
10. Attach the green ground wire.

# Phoenix Model 1800 Knee CPM

## Pendant Start/Stop Switch Replacement Procedure



### Tools required:

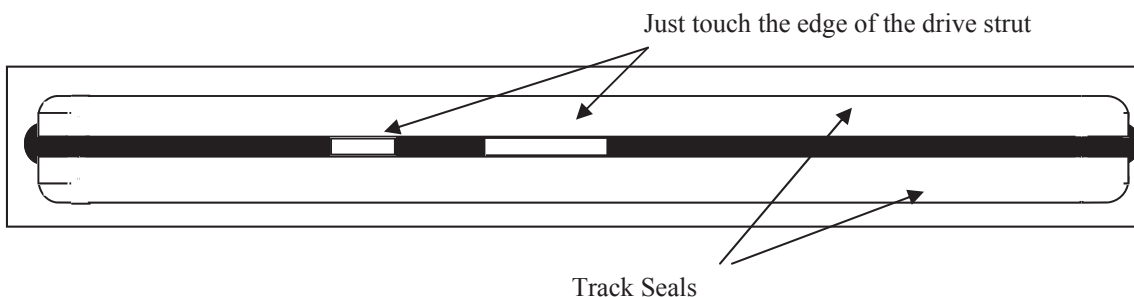
Soldering Iron, Solder, wire strippers/cutters, Small Phillips screwdriver, heat gun or hair dryer

1. Remove Face Plate (4 screws)
2. Cut red and black wires at the base of the old switch.
3. Carefully remove the old heat shrink.
4. Thread the new heat shrink tubing (included in the kit) onto the red and black wires.
5. Solder the red wire to one connecting pin and the black wire to the other connecting pin.
6. Place the heat shrink over the pin connectors and shrink using the heat gun or hair dryer.
7. Replace the face plate.



# Phoenix Knee CPM Series

## Track Seal Replacement Procedure



### Equipment required:

1. Track Seal Kit (Part No. Skit1707A)  
Includes: 4 Track Seals & 2 Packets of adhesive
2. Adhesive remover & Alcohol

### Attaching the Track Seals:

1. Remove the old track seal.
2. Clean off any adhesive residue from the old track seal. *Surfaces must be cleaned thoroughly for the new track seal to adhere properly.* Clean with adhesive remover (Goo-Gone) and alcohol.
3. Attach the track seals to the edge of the track opening by sliding the open side of the new track seal along the edge of the opening.
4. Lift the top side of the new track seal and apply a bead of adhesive (a little goes a long way) along the full length of the entire strip.

## Phoenix Knee CPM Model 1800

### Replacement Parts List

SKIT1130	Main Circuit Board
SKIT1200	Pendant Cable
SKIT 1207	Model 1800 Outer Pendant Enclosure Kit
SKIT 1214	Pendant Phoenix (Model 1800)
SKIT1223	Phoenix Hardware/Fastners
SKIT1225	Pendant Start Stop Switch
SKIT1226	Pendant LED Snap Mount
SKIT1231	Pendant Velcro Strap
SKIT1420	Knee POT Assembly
SKIT1511A	Power Supply, Domestic
SKIT1600	Foot Assembly
SKIT1613	Knob Kit
SKIT1707A	Track Seals
SKIT1724	Hip Pivot
SKIT1727	Delron Spacer & Shoulder Bolt Kit
SKIT1734	Motor & Gear Box (Phoenix)
SKIT1801	Bed Tube Assembly
SKIT1804	Cable Velcro Straps (pkg/5)
SKIT1812	Skid Pad Kit
SKIT1823	Phoenix POT Cover Kit (Includes Hardware & Label)
SKIT1823A	Phoenix POT Covers (3) Only
SKIT1825	Phoenix ROM Label (Pkg of 10)
SKIT1834	Phoenix Shipping Carton (Complete)
SKIT1906	Motor Only
SKIT3611	Velcro

**MCKELOR Technical Service Department - 800.273.5233**

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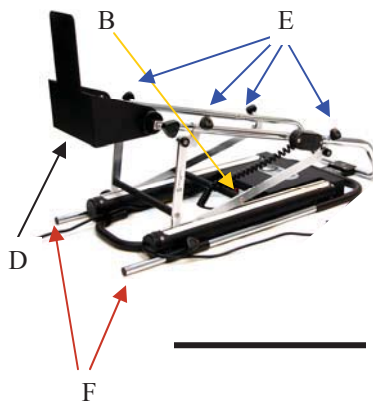
# Quick Reference Guide Phoenix Model 1800 Knee CPM



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## Phoenix Model 1800 Quick Reference Guide

### Safety Guidelines



- A) Securely plug power supply into wall outlet and ensure all cords are out of the walk way
- B) To power on unit, on/off switch is located on the back of the control box
- C) Check that all softgood Velcro is securely fastened
- D) Foot assembly should be in upright position - Tighten foot adjustment knobs
- E) Tighten all adjustment knobs
- F) To prevent migration, extend bed stabilizer tubes and tighten knobs

### Controller Overview

- A) Stop/start button located at top of pendant
- B) Flexion: 10 to 110 degrees
- C) Extension: -5 to 95 degrees *\*Note: There must be an angle setting greater than 15 degrees between Flexion and Extension. Should the angle settings be close or overlap, the unit will stop and you will hear a continual beeping unit the settings are corrected*
- D) Speed: 1 to 3 degrees per second
- E) Pause: 0 to 30 seconds



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