

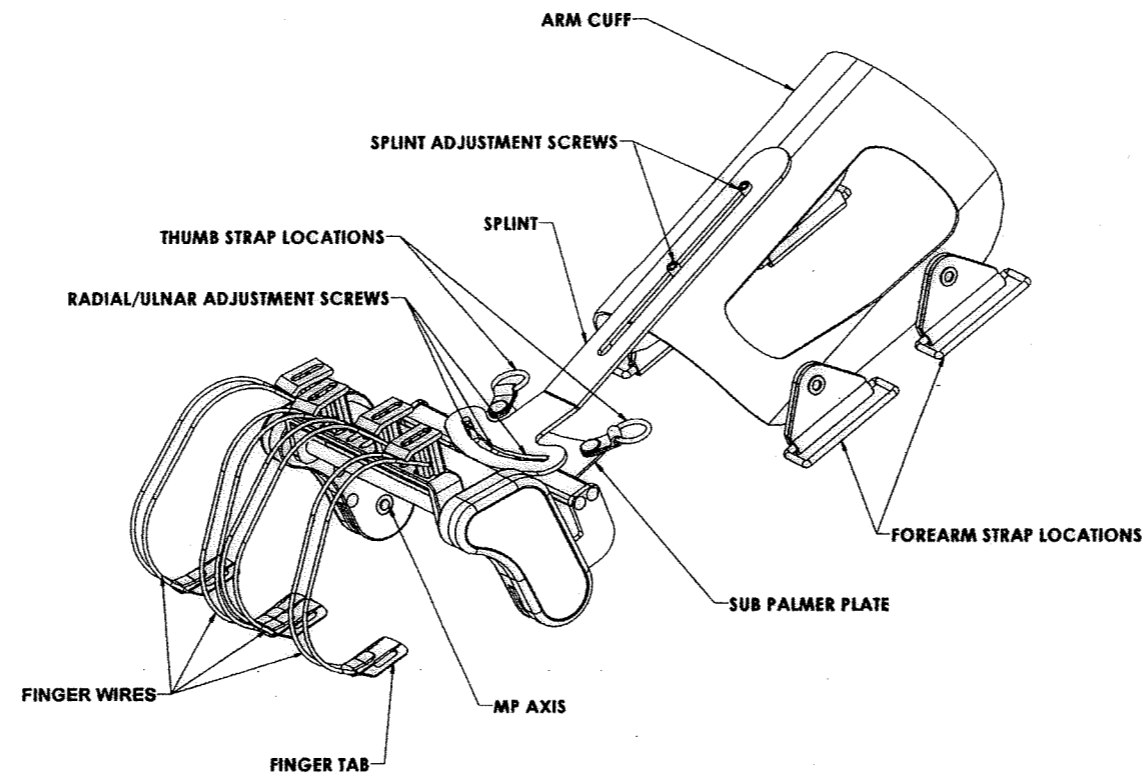
SIMPLE SETUP

VECTOR 1

HAND CONTROLLER LAYER LOCKOUT FUNCTIONS

A: Unlock all functions. See locking and unlocking functions

- 1: Turn unit on.
- 2: Battery voltage appears in the display momentarily.
- 3: **FLEXION** appears in the display. (Increase or decrease by pushing the up/down buttons)
- 4: Press **SELECT**.
- 5: **Extension** appears in the display. (Increase or decrease by pushing the up/down buttons)
- 6: Press **SELECT**.
- 7: **SPEED** appears in the display next. (Increase or decrease by pushing the up/down buttons)
- 8: Press **SELECT**.
- 9: **FORCE** appears in the display. (Increase or decrease by pushing the up/down buttons)
- 10: Press **SELECT**.
- 11: **PT TIME** appears in the display. (0-255 min) (increase or decrease therapy time by pressing the up/down buttons). Set to 0 for continuous use.
- 12: Press **SELECT**.
- 13: **THERAPY** appears in the display. Press the up/down buttons to set to CPM. (Other therapies are covered in manual.)
- 14: Press **SELECT**.
- 15: **CPM -pause** selection for (F) Flexion and (E) Extension (press up button to scroll between F and E.) To activate pause on flexion or extension there must be an * or a + under the appropriate letter F or E. If you don't want the CPM to pause in Flexion or Extension press the up button to move between each letter, and the down button to clear the * or +. Once selected, press the up button to move between the letters and when there is a - sign under the letters, the machine will not pause for that motion ((F) for Flexion or (E) for Extension).
- 16: Press **SELECT**.
- 17: **CPM-PAUSE** (press the up / down buttons to increase or decrease the amount of time in seconds that you would like the machine to pause. 6= six second pause.) The pause will only work if in step 15, you selected a pause.
- 18: Press **SELECT**.
- 19: **SN** will appear in the display.
- 20: Press **Select**.
- 21: **Push Go to Start** will appear in the display. Press the **GO** button to begin therapy.
22. **Lock all functions not required to be changed by patient.**



APPLYING VECTOR 1 TO PATIENT

- 1: Place forearm straps into forearm strap locations.
- 2: Loosen palmer straps. Detach thumb strap. (rear strap located on the side the thumb is on.
- 3: Set digit angle in flexion or extension depending on the patients ROM.
- 4: Slide patient's fingers into glove.
- 5: Make sure patient's MP joints line up with the MP axis of unit.
- 6: Tighten palmer strap to maintain correct alignment.
- 7: Tighten forearm straps.
- 8: Minor adjustments can be made with this unit to accommodate patient comfort and ROM results.
 - A.) To increase DIP flexion you can bend the wire finger outriggers.
 - B.) If you want to work on PIP or MP flexion, you can attach the finger tabs just distal to the corresponding joint.
 - C.) The unit allows for ulnar and radial deviation by loosening screws over hand and adjusting, then retightening.
 - D.) Forearm splint can slide proximal or distal to accommodate patients arm length by loosening screws on top of cuff and sliding in the direction needed, the retightened.
 - E.) Forearm splint has malleable cuff in order to fit varied patient arm circumferences.
- 9: Set ROM parameters and begin therapy.

- 1: Turn unit off. Wait 8 second.
- 2: Press and hold the **SELECT** button while turning the power switch to on.
- 3: **FIRST LAYER FUNCTIONS** appear. FESfT.
 - F= Flexion of the digits.
 - E= Extension of the digits.
 - S= Speed of machine movement.
 - f= Force unit applies to movement of the digits.
 - T= PT or Physical Therapy timer.
- 4: Press **SELECT** to move to next layer.
- 5: **SECOND LAYER FUNCTIONS** appear. XmrcRmrc
 - X=Expand therapy.
 - w= Expand (digit-flexion goal)
 - d = Expand range. (digit-extension goal)
 - c = Expand cycles (number of cycle before incrementing 1 degree towards goal)
 - R= Rerom therapy (repetitive end range of motion)
 - m= Rerom selection. (Place * under F, E or both to select where rerom will occur)
 - r = Rerom range (Percentage of ROM that will repeat at end ROM as selected above)
 - c = Rerom cycles. (number of cycles to repeat end ROM)
- 6: Press **SELECT** to move to next layer.
- 7: **THIRD LAYER FUNCTIONS** appear. CmpAV
 - C= CPM therapy (continuous passive motion)
 - m= CPM pause selection
 - p= Pause time.
 - A=Authorized time
 - v= Force reversal fault / no fault selection. * is for unlimited force reversals

LOCKING and UNLOCKING FUNCTIONS

While in the layer mode. You can lock functions to minimize the risk of changing settings to the machine, and to make the controller easier to navigate by locking them from display once machine has been setup. Locking a function does not allow that function to be displayed on screen and the values cannot be changed unless that function is unlocked.

- 1: Turn unit off. Wait 8 seconds.
- 2: Press and hold select button while turning unit power on.
- 3: Layer 1 functions will be displayed. FESfT.
- 4: Use up button to move the cursor under the functions that need to be locked or unlocked and press the down button to lock or unlock that function.lock (* or + signs) or unlock (- sign)
- 5: Press select to move to next layer.
- 6: Repeat step 4 and five, until press go to start is displayed on screen. Begin therapy.

The therapy in use, CPM (C), ReRom (R), or Expand (X), must be unlocked, if all therapy's are locked (C, R, X) the machine will return you to the Layer Two to unlock the function to be used for therapy. If CPM is to be used, you will need to press select to move to the third layer to unlock it.