



North Coast

# Phoenix™ Outrigger Kit

NC12760



## Indications:

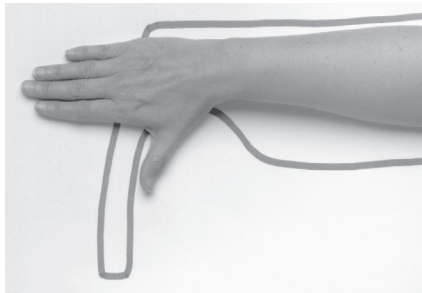
Use for dynamic or static progressive MP joint splinting. Ideal for post MP arthroplasty for precise positioning and adjustment of outrigger lines for proper 90° line of pull.

The Phoenix Outrigger Kit includes: one dorsal outrigger bar, one radial outrigger bar, four pretied finger loops with outrigger line, three finger loops with grommets, four adjustable slotted pulleys, one rubberband post, and one 5/64" (2mm) hexwrench.

Additional splint materials needed: NCM low temperature thermoplastics, rubber bands (NC12506), Velcro hook and loop, Gyovai Finger Springs™ (NC12508) in place of rubber bands, outrigger line connectors (NC12495 and NC12498), crimping tool (NC12496), Splint-Tuner™ (NC22600) for static progressive splinting.

## 1. Fabricate the Splint Base:

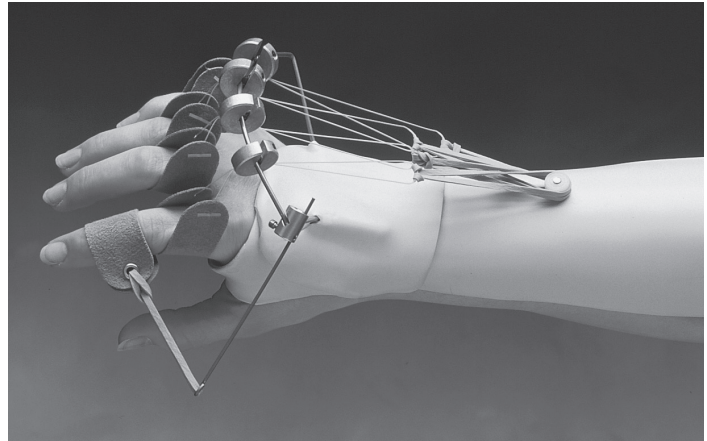
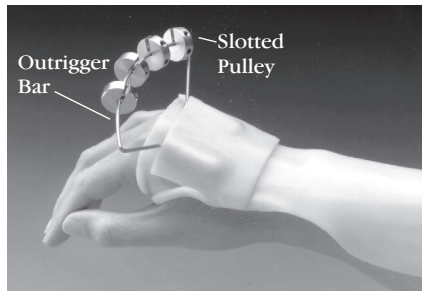
Cut and form a dorsal wrist extension splint. Pad ulnar styloid as needed. Maintain the distal transverse arch when forming the splint. Mold the palmar bar to allow full MP flexion.



## 2. Attach the Outrigger Bar:

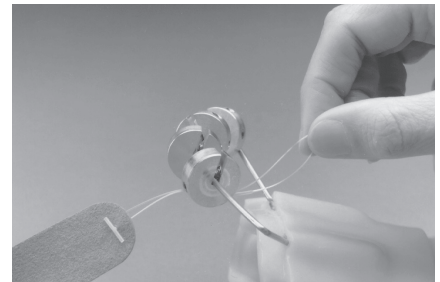
Position the outrigger bar over the midpoint of the proximal phalanges, with the most distal point over the longest finger's proximal phalanx.

Attach the outrigger by heating the ends with a heat gun. Embed the ends of the outrigger bar into thermoplastic. Secure the bar by bonding a layer of thermoplastic over each end.



## 3. Attach the Slings:

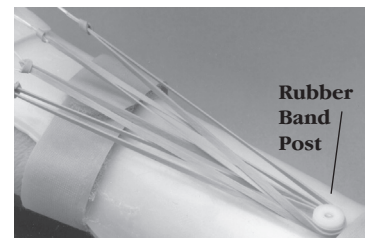
Fold the nylon lines of the pretied finger slings at their thinnest portion. Thread through each slotted pulling hole. Fold and crease the thickest portion of the line so the sling will hang evenly.



## 4. Attach Desired Dynamic Assist Elements:

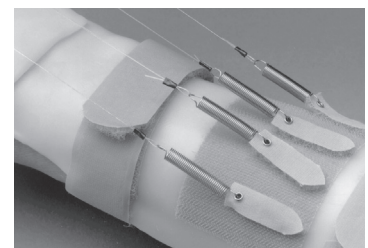
### Rubber Bands

Punch 1/8" (3.2 mm) hole at proximal end of splint and screw in the rubber band post. Slip knot the rubber band onto the monofilament loop of the finger sling. Stretch the rubber band and hook it around the rubber post.



### Gyovai Finger Springs™

Attach the nylon line of the spring to the loop of finger sling. Place velcro sticky back hook piece at the proximal end of the splint. Bring the loop tab of the spring to the hook piece on the splint and adjust for precise tension.



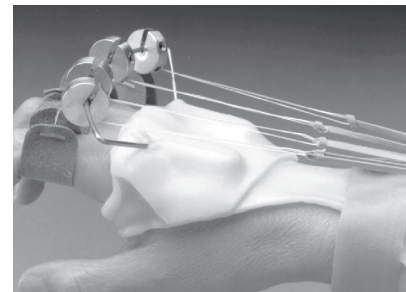
Gyovai Finger Spring Attachment

## Phoenix Outrigger Instructions

### 5. Adjust the Slotted Pulleys:

Place the hand in the splint. Loosen the set-screws of the slotted pulley with the hex wrench to allow adjustment in proximal-distal and radial-ulnar directions. Once in correct finger alignment, secure the pulley using the hex wrench.

**Note:** Approximately  $\frac{3}{4}$ " (1.9 cm) rotational proximal-distal adjustment is available by twisting the pulley to obtain the proper 90° outrigger line alignment to the proximal phalanges.



### 6. Outrigger Attachment (NC12760-2):

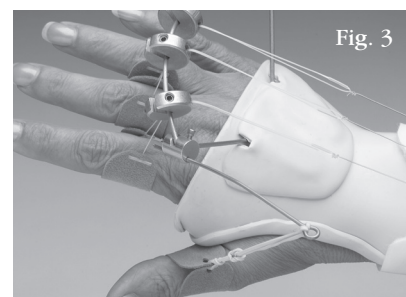
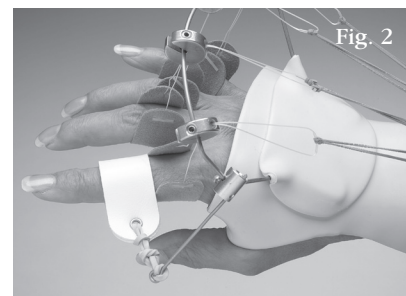
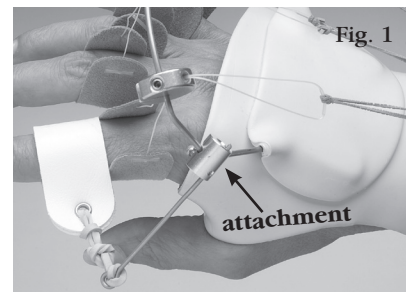
This special attachment is used as a counterforce when a finger(s) is ulnarly rotated or deviated (Fig. 3). Can also be used to extend the thumb (Fig 2).

Place the radial outrigger attachment directly over the radial bend (corner) in the main outrigger bar. This placement gives extra stability to prevent attachment piece from rotating. (Fig 1)

Bend the outrigger wire if needed to obtain correct alignment with the finger/thumb. Usually, this wire should line up to allow a perpendicular pull to the extended phalanx of the involved joint.

Tighten the set screw to prevent rotation of the radial attachment. Use a wire cutter to trim excess wire length as needed.

7. Slip grommeted finger cuff over involved finger or thumb. Use rubber bands to attach the finger cuff to the end of the attachment wire.





### Care

Hand wash using mild soap and warm water; air dry.

Outrigger metal pieces can be autoclaved.

To be used under the guidance of  
a qualified medical professional.

**SINGLE  
PATIENT  
USE**

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