

# 3 SOLUTIONS for KNEE HYPEREXTENSION

**CROSS™**



1

**C.H.E.C.K™**



2

**COMBO™**



3



## A Functional Combination of ORTHOSES



### Hyperextension Knee Orthosis



### An Allard Dynamic Response AFO

Choose from any  
model of:

- Ypsilon®
- ToeOFF® *(pictured)*
- BlueROCKER®



## Functional and Patient Friendly Hyperextension Control Knee Orthosis

- Effective hyperextension control with or without an AFO!
- The only HYPEREXTENSION KNEE ORTHOSIS designed specifically to be worn with an Allard AFO!



# What makes CROSS™ patient friendly?



## Ease of Donning and Comfort

- Unique construction of the wide upper cuff keeps the orthosis open so foot and leg slide easily into the brace.
- User can easily grasp the wide cuff and pull orthosis up and adjust so patella opening is properly located over the knee.



## Ultra-smooth low friction liner with no visible seams

- Provides protective "layer" between the outer material and the skin
- Helps prevent skin irritations
- Helps orthosis glide easily over the foot and up over the knee



## One-Hand Donning

The unique CROSS™ donning aid, included with each CROSS™ orthosis, makes it possible for:

- Users with limited balance to don the orthosis by themselves while in the seated position.
- Users with hemiplegia or limited hand dexterity to apply with one hand.

## How the Donning Aid is Used

- The donning aid is easily inserted into an opening in the posterior semi-rigid thigh cuff (location easily identified with a grey binding tape).
- When all straps are released, the orthosis is pulled on with the hyperextension strap facing front.
- Once the sleeve is pulled over the foot, the smooth fabric liner makes it easy to turn the orthosis and pull up the leg until the patella opening is properly located over the knee.



## Hyperextension Knee Orthosis

SIDE VIEW



BACK VIEW



CROSS™ is intended for mild to moderate knee hyperextension due to neuromuscular diseases or other injuries. The orthosis can also be used together with Allard AFOs when knee hyperextension is present together with foot drop.



[www.youtube.com/allardusa](http://www.youtube.com/allardusa)

*Measurements are for guidance only,  
focus on the mid-patella measurement  
and try to find the range that fits best.*

Item no.	Description	Size	Circumference 15cm (6") below mid-patella	Circumference mid-patella	Circumference 15cm (6") above mid-patella
28715 0011	Knee orthosis	Small	32-37cm (13-15")	32-37cm (13-15")	39-44cm (15½-17¼")
28715 0012	Knee orthosis	Medium	36-41cm (14-16")	36-41cm (14-16")	43-48cm (17-19")
28715 0013	Knee orthosis	Large	40-45cm (15¾-17¾")	40-45cm (15¾-17¾")	47-52cm (18½-20½")
28715 0014	Knee orthosis	X-Large	44-49cm (17¼-19¼")	44-49cm (17¼-19¼")	51-57cm (20-22½")

*Patent pending*

### Warranty

30 days from the original fit date for Manufacturer's Defects.

Patient Satisfaction Guarantee = within 10 days of fit.

# Functional Orthotic Management...

... of hyperextension  
and mild-moderate  
knee instability



CHECK™



# Comfortable Hyper Extension Control Knee

## C.H.E.C.K<sup>TM</sup>

### Indications

Genu Recurvatum  
Ligament Instability  
Mild Varus/Valgus Instability

## CHECK<sup>TM</sup>



### Reduced Force on Thigh & Tibia

Long lever arms reduce the amount of force required on the femur and tibia to control hyperextension and/or mild-moderate knee instability, making the orthosis better tolerated by the patient.

### Hyperextension Control

Proximal strapping is easily adjusted to offer optimum degree of hyperextension stop based on individual patient needs.

### Medial - Lateral Control

Stainless steel medial and lateral uprights are joined posteriorly to rigid horizontal cross bar and ready for orthotist to shape to fit individual anatomy for required medial-lateral control.

### Migration Control

Posterior popliteal strap rests comfortably on top of the gastroc to help prevent downward migration.

### Functional Suspension System

Two suspension supports, one proximal to suspend the frame on the femur and one distal to suspend the frame on the tibia, provide functional suspension system for the orthosis, while simultaneously offering soft interface between soft tissue and the orthosis.

### Condylar Pads

Two condylar pads to position for close fit.

### Lightweight

Just 22 ounces.

### Unique D-Ring Solution

Four unique D-Rings included with each brace. Mount on either side to fit patient needs.

### One Size

Fits knee widths 3 1/2 - 5 1/4"

Item #	Description	Color
28652	C.H.E.C.K <sup>TM</sup> Stainless Steel	Black
28651	Replacement Suspension System/Interface	Grey
28653	D-ring, Set of 4	Black

### Warranty

Case by case basis.



**COMBO™**

## ... The Perfect Combination

World's Leading Carbon Composite AFO Technology  
with Carbon Graphite Hyperextension Knee Orthosis!

### COMBO

- Anatomically Shaped Thigh Cuff
- Dual Axis Joints
- Popliteal Interface for Knee Extension Control
- Shapeable Stainless Steel Uprights
- Pre-contoured, yet Shapeable ToeOFF® or BlueROCKER® Connector



### ToeOFF® or BlueROCKER®

The Original Dynamic Response Floor  
Reaction Carbon Composite AFO

**Custom Fabricate  
a Super-Lightweight KAFO  
in Your Own Facility!**



### *Therapy, Reimbursement and Patient Friendly!*

- The thigh cuff/knee control assembly is easily removed from the ToeOFF® or BlueROCKER®.
- Great for rehab programs where extension control may no longer be required as treatment progresses, eliminates the need for a prescription for a 2nd orthosis!
- Great for patient when relaxing and extension control is not required.
- Easy to don and doff
- Quick release buckles and straps



# FABRICATE A CUSTOM KAFO!

(Just 5 Components + ToeOFF® or BlueROCKER®)

NOTE: Different sizes of the components can be combined to accommodate individual patient needs.

## 1 JOINTS WITH UPRIGHTS

Item No.	Size
28780 0000	One Size

## 2 TIBIA CONNECTOR

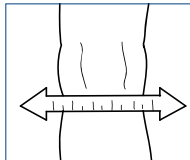
Generally, select the same size as the ToeOFF® or BlueROCKER®. However, the next smaller size will “snug” the wings of the ToeOFF® or BlueROCKER® closer to the leg for the extra small calf, and the next larger size may better accommodate a larger calf.

Item No.	Size
28784 0011	Small
28784 0012	Medium
28784 0013	Large/X-Large

## 3 KNEE CONTROL COMPONENT WITH POPLITEAL INTERFACE

Take a M-L (knee width) measurement.

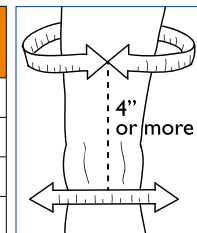
Item No.	Size	Medial-Lateral
28782 0011	Small	2 3/4 - 4 1/4 in.
28782 0012	Medium	3 3/4 - 5 1/4 in.
28782 0013	Large	5 - 6 1/4 in.



## 4 THIGH CUFF

Take a circumferential measurement at height where thigh cuff is to be located, however, make certain it is 8" (20 cm) above the tibial plateau. Take a M-L measurement at same height.

Item No. Left	Item No. Right	Size	Circumference	M - L
28781 1011	28781 2011	Small	11 3/4 - 15 3/4 in.	4 1/4 - 6 in.
28781 1012	28781 2012	Medium	15 - 19 3/4 in.	5 1/4 - 6 in.
28781 1013	28781 2013	Large	19 - 23 3/4 in.	6 - 7 1/2 in.
28781 1014	28781 2014	X-Large	22 3/4 - 27 1/2 in.	6 3/4 - 8 1/4 in.



## 5 THIGH CUFF SOFTKIT

Same size as Thigh Cuff.

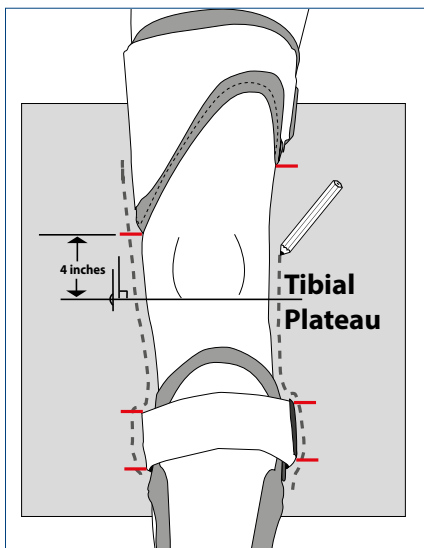
Item No.	Size
28783 0011	Small
28783 0012	Medium
28783 0013	Large
28783 0014	X-Large

# COMBO™

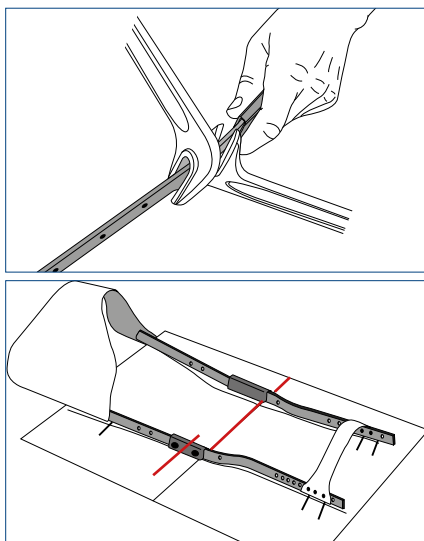
(See page 11 for Replacement Components and ToeOFF®/BlueROCKER® ordering information)

# COMBO™

## TRACE

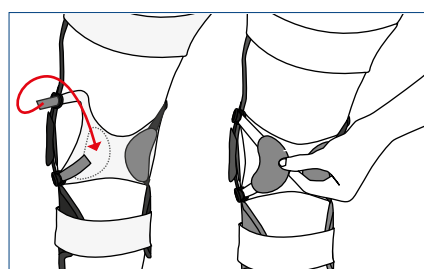
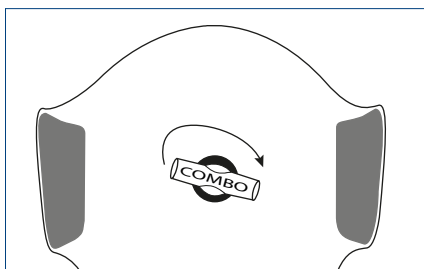
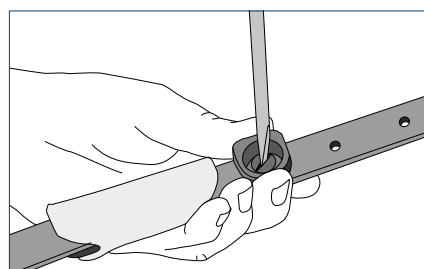
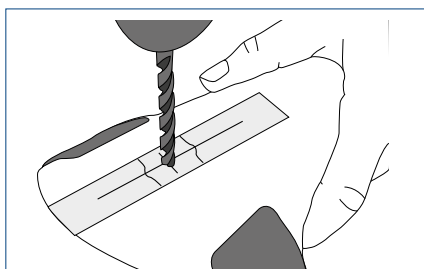
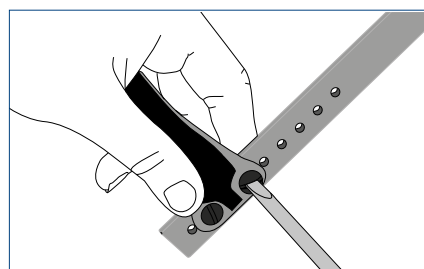
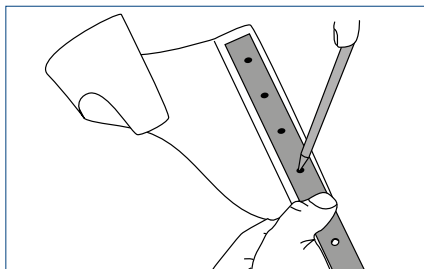


## SHAPE



An Orthotist or Technician skilled in shaping metal KAFO uprights is required to fabricate the Perfect Combination.

## FABRICATE



### Warranty

1 Year manufacturer's warranty on all rigid parts.  
Soft goods 90 day manufacturer's warranty.

# AFO Order information for COMBO™

ToeOFF® Models		
ToeOFF® Original		28375
ToeOFF® 2.0	No D-Ring	28920
ToeOFF® 2.0	W/ D-Ring	28922
ToeOFF® 2 ½	No D-Ring	28980
ToeOFF® 2 ½	W/ D-Ring	28982
ToeOFF® 2 ½	Addition	2895x
ToeOFF® Flow 2 ½	No D-Ring	28960
ToeOFF® Flow 2 ½	W/ D-Ring	28962
ToeOFF® SHORT		28990

BlueROCKER® Models		
BlueROCKER® Original		28405
BlueROCKER® 2.0	No D-Ring	28940
BlueROCKER® 2.0	W/ D-Ring	28942
BlueROCKER® 2 ½	No D-Ring	28970
BlueROCKER® 2 ½	W/ D-Ring	28972
BlueROCKER® SHORT		28995

Allard AFO Padding Options	
SoftKIT™	28390
SoftKIT™ SHORT	28391
ComfortKIT™	28398

## COMBO Replacement Components

Item No.	Description
28790 0000	Upright Screws, Size M4x5, Set of 8
28791 0000	Thumb Screw with Teflon Washers and Screws
28792 0000	Buckle Set to Attach Popliteal Interface (Each)
28793 0000	Screw (Size M3x6) Set Only for Popliteal Interface Buckles (Set of 4)
28794 0000	Thigh Strap
28795 0000	D-Ring for Thigh Cuff
28796 0000	Calf Strap
28797 0011	MicroFIX for Thigh Cuff SoftKIT Sizes Small & Medium
28797 0013	MicroFIX for Thigh Cuff SoftKIT Sizes Large & X-Large



- Uprights are easily attached to anatomically shaped thigh cuff that comfortably grasps the femur for stable fixation.
- Quick connect/release buckles easily attach the adjustable Knee Control Popliteal Interface.
- Tibia Connector is pre-contoured to fit the shape of the anterior plate of the ToeOFF®/BlueROCKER®, yet is shapeable to accommodate variance in calf circumference and still assure close fit to the anterior plate.

### WARNING

- Weight Limit: 330 pounds
- Height Limit: 6 ½ feet (2m)
- Use of COMBO with any product other than ToeOFF® or BlueROCKER® is prohibited
- The COMBO KAFO requires a prescription and must be fit by or under the supervision of a Certified Orthotist.



# SOLUTIONS for KNEE HYPEREXTENSION



CHEC K™

COMBO™

**Support**  
FOR **BETTER** LIFE!

**allard** | **USA**

[allardusa.com](http://allardusa.com)

**ALLARD USA, INC.**  
300 Forge Way, Suite 3  
Rockaway, NJ 07866-2056

[info@allardusa.com](mailto:info@allardusa.com)  
Toll Free 888-678-6548  
Fax 800-289-0809