

**SECTION V**

**ANKLE COMPONENTS**

**Double Action**

**Standard Action**

**Dorsiflexion Assist**

**Miscellaneous Stirrup  
Components**

**Thermoplastic Ankle Joints  
for Plastic AFO/KAFO**

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# ANKLE JOINT AND STIRRUP MATERIAL AND SIZE SPECIFICATIONS

In the following five sections, Becker Orthopedic presents its complete line of ankle joint and stirrup products. These pages represent the largest selection of ankle components available on the market. Systems are available for double action, standard action, dorsiflexion assist, and a variety of joints for thermoplastic orthoses. Each joint is available in assorted sizes and materials. Four basic stirrup configurations are available in sizes from 4-1/2" to 11". This page is devoted to our material and size specifications, which will be a useful reference for anyone working with our ankle joint and stirrup systems. The orthotist should carefully evaluate each patient to determine the appropriate size and material of the component.

## SIZE SPECIFICATIONS

	A SIZE Adults		B SIZE Youths		C SIZE Children	
Designed For:	Adults		Youths		Children	
Patient Weight	**Over 140#		**50-140#		**Under 50#	
Stirrup Length Range*	8"-11"	203-279mm	6-3/4"-9"	171-229mm	4-1/2"-6-3/4"	114-171mm
Length Intervals	1/2"	13mm	3/4"	19mm	3/4"	19mm
Stirrup Thickness	1/8"	3mm	1/8"	3mm	3/32"	2mm
Split Stirrup Upright Dimensions	1/8" x 7/8"	3 x 22mm	1/8" x 3/4"	3x19mm	3/32" x 11/16"	2 x 17mm
Split Stirrup Length	6-1/2"	165mm	5-1/2"	140mm	4-1/4"	108mm
Bushing Hole Diameter	3/8"	9.5mm	3/8"	9.5mm	5/16"	8mm
Ankle Joint Upright Holes	5/32" or #22 Drill		5/32" or #22 Drill		1/8" or #30 Drill	
Set Screw	5/16"- 24 x 5/16"		5/16"- 24 x 5/16"		1/4"- 28 x 3/16"	

\* Standard sizes listed. Becker offers smaller and larger custom stirrup sizes.

\*\* Discretion in choosing a joint size and designing an appropriate orthosis should be used by the orthotist in all cases.

**NOTE: Material and size specifications are subject to change without notice.**

## LENGTH CONVERSIONS

Inches	Millimeters
1.6	41
1.8	46
2.1	53
2.25	57
2.5	64
2.75	70
3	76
4.25	108
4.5	114
5.25	133
5.5	140
6	152
6.5	165
6.75	171
7.5	191
8	203
8.25	210
8.5	216
9	228
9.5	241
10	254
10.5	267
11	279

## MATERIAL SPECIFICATIONS

Product	Material
Stirrups	304-2B Stainless Steel 1/4 Temper
Stainless Ankle Joints	303 Stainless Steel
Aluminum Ankle Joints	7075-T6 Aluminum
Aluminum Uprights	2024-T4 Aluminum
Stainless Uprights	304-2B Stainless Steel 1/4 Temper

# SLIM LINE DOUBLE ACTION ANKLE JOINTS

Becker Orthopedic introduced the low profile Slim Line Double Action ankle joints in 1992. These joints allow the orthotist to choose an inside (SLI) or outside (SLO) recess on the joint.

## SLIM LINE WIDE FLANGE STIRRUP ONLY

These stirrups may be used with any Slim Line ankle joint. Three configurations are available; each is made from 1/8" thick stainless steel with two 3/8" bushing holes.



### MODEL SL2800-A STIRRUP ONLY

Standard wide flange stirrup with 4-1/2" tongue.

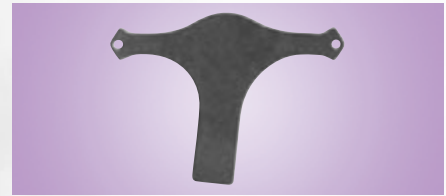
Order No.	Length
SL2800-A8	8"
SL2800-A8.5	8-1/2"
SL2800-A9	9"
SL2800-A9.5	9-1/2"
SL2800-A10	10"
SL2800-A10.5	10-1/2"
SL2800-A11	11"



### MODEL SL2800-X STIRRUP ONLY

The same as model SL2800-A except the tongue is 6" long for increased stability.

Order No.	Length
SL2800-X8	8"
SL2800-X8.5	8-1/2"
SL2800-X9	9"
SL2800-X9.5	9-1/2"
SL2800-X10	10"
SL2800-X10.5	10-1/2"
SL2800-X11	11"



### MODEL SL2800-SX STIRRUP ONLY

The unique "web" configuration makes this stirrup the strongest we manufacture. The tongue of this stirrup is 7" long.

Order No.	Length
SL2800-SX8	8"
SL2800-SX8.5	8-1/2"
SL2800-SX9	9"
SL2800-SX9.5	9-1/2"
SL2800-SX10	10"
SL2800-SX10.5	10-1/2"
SL2800-SX11	11"

## SLIM LINE STANDARD FLANGE STIRRUP ONLY

All SL2900 models are available in adult, youth and child sizes.



### MODEL SL2900-A SLIM LINE ADULT STIRRUP ONLY

- 1/8" stainless steel
- Two 3/8" bushing holes
- 3.5" tongue

Order No.	Length
SL2900-A8	8"
SL2900-A8.5	8-1/2"
SL2900-A9	9"
SL2900-A9.5	9-1/2"
SL2900-A10	10"
SL2900-A10.5	10-1/2"
SL2900-A11	11"
SL2900-A11.5	11-1/2"

### MODEL SL2900-B SLIM LINE YOUTH STIRRUP ONLY

- 1/8" stainless steel
- Two 3/8" bushing holes
- 2.8" tongue

Order No.	Length
SL2900-B6.75	6-3/4"
SL2900-B7.5	7-1/2"
SL2900-B8.25	8-1/4"
SL2900-B9	9"

### MODEL SL2900-C SLIM LINE CHILD SIZE STIRRUP ONLY

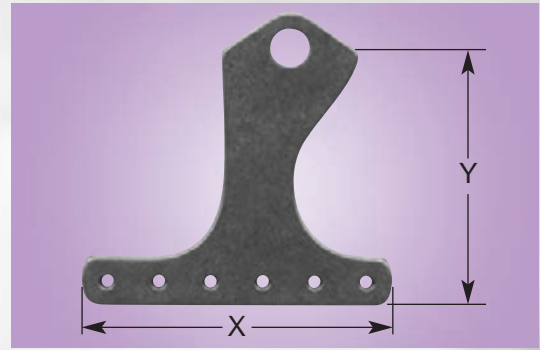
- 3/32" stainless steel
- Two 5/16" bushing holes
- 2.1" tongue

Order No.	Length
SL2900-C4.5	4-1/2"
SL2900-C5.25	5-1/4"
SL2900-C6	6"
SL2900-C6.75	6-3/4"

# MODEL SL2810 SLIM LINE STIRRUP INSERT ONLY

This unique Becker design is stamped in one piece with no welding for increased strength.

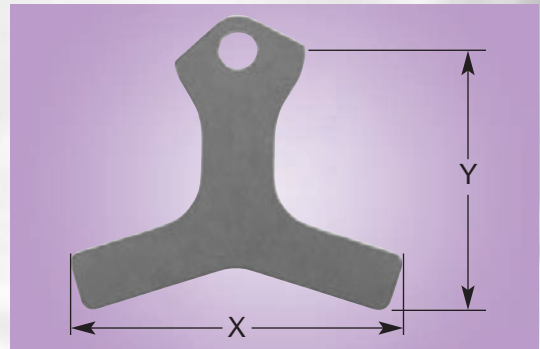
Order No.	Joint Size	Thickness	X	Y
SL2810-A2.25	A	1/8"	3"	2.25"
SL2810-A2.5	A	1/8"	3"	2.5"
SL2810-A2.75	A	1/8"	3"	2.75"
SL2810-A3	A	1/8"	3"	3"
SL2810-C1.8	C	3/32"	2.36"	1.8"
SL2810-C2.0	C	3/32"	2.36"	2"
SL2810-C2.3	C	3/32"	2.36"	2.3"



# MODEL SL2810Y SLIM LINE Y STIRRUP INSERT ONLY

The "Y" shaped flanges are preferred by many orthotists.

Order No.	Joint Size	Thickness	X	Y
SL2810-A-Y	A	1/8"	3.31"	2.61"
SL2810-C-Y	C	3/32"	3.36"	2.30"



# MODEL SLI/SLO-2825: SLIM LINE DOUBLE ACTION ANKLE JOINTS

The joints below are shipped complete with bushing, screw, ball bearings, springs and hex set screws. When ordering please specify if you desire pins instead of springs. Slim Line ankle joints are available with your choice of an inside (SLI), or outside (SLO), upright recess. "A" size joints measure 1.5" x 2.2", while "C" and "C8" size joints measure 1.2" x 1.8". Sold individually. **NOTE: "C8" size joints are compatible with our "A" and "B" size stirrups.**



**SLO-2825-A**

- 1/8" slot
- 5/8" recess



**SLI-2825-A**

- 1/8" slot
- 5/8" recess



**SLO-2825-C**

- 3/32" slot
- 1/2" recess



**SLI-2825-C**

- 3/32" slot
- 1/2" recess



**SLO-2825-C8**

- 1/8" slot
- 1/2" recess



**SLI-2825-C8**

- 1/8" slot
- 1/2" recess

# MODEL TISLI/TISLO-2825: TITANIUM SLIM LINE DOUBLE ACTION ANKLE JOINTS

Slim Line ankle joints are also available in titanium. These titanium joints provide approximately a 39% weight reduction over stainless Slim Line components.



**TISLO-2825-A**

- 1/8" slot
- 5/8" recess



**TISLI-2825-A**

- 1/8" slot
- 5/8" recess



**TISLO-2825-C**

- 3/32" slot
- 1/2" recess



**TISLI-2825-C**

- 3/32" slot
- 1/2" recess



**TISLO-2825-C8**

- 1/8" slot
- 1/2" recess



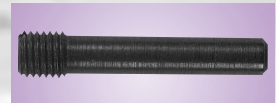
**TISLI-2825-C8**

- 1/8" slot
- 1/2" recess

**NOTE: To order parts, please refer to page 5.1.11 and specify the original order number of the joint, followed by the part number you desire.**

## MISCELLANEOUS ANKLE JOINT COMPONENTS

Order No.	Description	Thread Diameter	Compatible with
I-SCREWPIN#18	Ankle Joint Screw-Pin	5/16"-18	SL2845-A and X3245-A
I-SCREWPIN#24	Ankle Joint Screw-Pin	5/16"-24	SLI/SLO-2825-A and 2825-A



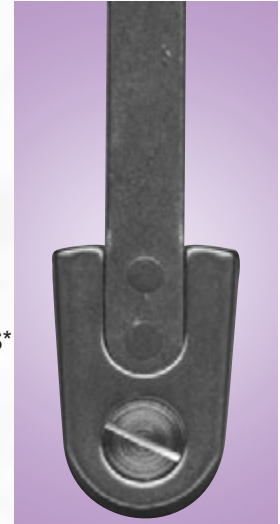
# MODEL SLI/SLO-2835 SLIM LINE DOUBLE ACTION ANKLE JOINT WITH ATTACHED UPRIGHT

We attach the upright bar to the ankle joint to reduce your fabrication time. Sold individually.



**INSIDE BAR  
RECESS**

SLI	Dimensions	SLO
Order No.	<b>Stainless Steel Joints with Aluminum Uprights</b>	Order No.
SLI-2835-A4	1/4" x 5/8" x 15-1/4" Aluminum	SLO-2835-A4
SLI-2835-A6	3/16" x 5/8" x 15-1/4" Aluminum	SLO-2835-A6
SLI-2835-C6	3/16" x 1/2" x 11" Aluminum	SLO-2835-C6
SLI-2835-C8*	1/8" x 1/2" x 11" Aluminum	SLO-2835-C8*
	<b>Stainless Steel Joints with Stainless Steel Uprights</b>	
SLI-2835-A6S	3/16" x 5/8" x 15-1/4" S.S.	SLO-2835-A6S
SLI-2835-C6S	3/16" x 1/2" x 11" S.S.	SLO-2835-C6S
SLI-2835-C8S*	1/8" x 1/2" x 11" S.S.	SLO-2835-C8S*
	<b>Titanium Joints with Aluminum Uprights</b>	
TISLI-2835-A6	3/16" x 5/8" x 15-1/4" Aluminum	TISLO-2835-A6
TISLI-2835-C6	3/16" x 1/2" x 11" Aluminum	TISLO-2835-C6
TISLI-2835-C8	1/8" x 1/2" x 11" Aluminum	TISLO-2835-C8*
	<b>Titanium Joints with Stainless Steel Uprights</b>	
TISLI-2835-A6S	3/16" x 5/8" x 15-1/4" S.S.	TISLO-2835-A6S
TISLI-2835-C6S	3/16" x 1/2" x 11" S.S.	TISLO-2835-C6S
TISLI-2835-C8S*	1/8" x 1/2" x 11" S.S.	TISLO-2835-C8S*



**OUTSIDE BAR  
RECESS**

\*Model C8 and C8S come equipped with our Slim Line 2825-C ankle joint.

**NOTE:** Any size upright in any joint on the preceding page can be made as a special item. Please allow 48 hours to manufacture special items.

# MODEL SL2845-A SLIM LINE ONE-PIECE ALUMINUM DOUBLE ACTION ANKLE JOINT AND UPRIGHT

Model SL2845-A is a pre-contoured one-piece offering lighter weight and improved strength. Springs are included unless pins are specified. Sold individually.

Order No.	Fits Stirrup Size	Dimensions
SL2845-A	A or B	3/16" x 5/8" x 14"



# MODEL SLI/SLO-2850-A

## WIDE FLANGE STIRRUP WITH SLIM LINE DOUBLE ACTION ANKLE JOINTS

This model includes our wide flange stirrup with 4-1/2" tongue and Slim Line Double Action ankle joints. Springs are included unless pins are specified. Available with stainless steel or titanium ankle joints. Please specify choice of inside (SLI), or outside (SLO) recess for upright attachment.



SLI



SLO

SLI	Stirrup Length	SLO
Order No.	Stirrup Length	Order No.
SLI-2850-A8	8"	SLO-2850-A8
SLI-2850-A8.5	8-1/2"	SLO-2850-A8.5
SLI-2850-A9	9"	SLO-2850-A9
SLI-2850-A9.5	9-1/2"	SLO-2850-A9.5
SLI-2850-A10	10"	SLO-2850-A10
SLI-2850-A10.5	10-1/2"	SLO-2850-A10.5
SLI-2850-A11	11"	SLO-2850-A11

**NOTE:** For Titanium ankle joints, add prefix "TI" to the order number, e.g., TISLI-2850-A9 (Titanium Slim Line inside recess ankle joints with 9" stirrup).

# MODEL SLI/SLO-2850-X

## WIDE FLANGE LONG TONGUE STIRRUP WITH SLIM LINE DOUBLE ACTION ANKLE JOINTS

Model SLI/SLO-2850-X is the same as model SLI/SLO-2850-A except the tongue is 6" long for increased stability. Springs are included unless pins are specified. Available with stainless steel or titanium ankle joints. Please specify choice of inside (SLI) or outside (SLO) recess for upright attachment.



SLI



SLO

SLI	Stirrup Length	SLO
Order No.	Stirrup Length	Order No.
SLI-2850-X8	8"	SLO-2850-X8
SLI-2850-X8.5	8-1/2"	SLO-2850-X8.5
SLI-2850-X9	9"	SLO-2850-X9
SLI-2850-X9.5	9-1/2"	SLO-2850-X9.5
SLI-2850-X10	10"	SLO-2850-X10
SLI-2850-X10.5	10-1/2"	SLO-2850-X10.5
SLI-2850-X11	11"	SLO-2850-X11

**NOTE:** For Titanium ankle joints, add prefix "TI" to the order number, e.g., TISLI-2850-X10 (Titanium Slim Line inside recess ankle joints with 9" stirrup).

# MODEL SLI/SLO-2850-SX: SLIM LINE WIDE FLANGE LONG TONGUE WEBBED STIRRUP WITH DOUBLE ACTION ANKLE JOINTS

Model SLI/SLO-2850-SX has a unique web design, with 7" tongue, that makes it the strongest stirrup we manufacture. Springs are included unless pins are specified. Available with stainless steel or titanium ankle joints. Please specify choice of either inside (SLI) or outside (SLO) recess for upright attachment.



SLI

SLI		SLO	
Order No.	Stirrup Length	Order No.	
SLI-2850-SX8	8"	SLO-2850-SX8	
SLI-2850-SX8.5	8-1/2"	SLO-2850-SX8.5	
SLI-2850-SX9	9"	SLO-2850-SX9	
SLI-2850-SX9.5	9-1/2"	SLO-2850-SX9.5	
SLI-2850-SX10	10"	SLO-2850-SX10	
SLI-2850-SX10.5	10-1/2"	SLO-2850-SX10.5	
SLI-2850-SX11	11"	SLO-2850-SX11	



SLO

**NOTE:** For Titanium ankle joints, add prefix "TI" to the order number, e.g., TISLI-2850-SX9 (Titanium Slim Line inside recess ankle joints with 9" stirrup).

# MODEL SLI/SLO-2950: STANDARD FLANGE STIRRUP WITH SLIM LINE DOUBLE ACTION ANKLE JOINTS

Model SLI/SLO-2950 is available in adult, youth, or child sizes. Springs are included unless pins are specified. Available with stainless steel or titanium ankle joints. Please specify choice of either inside (SLI) or outside (SLO) recess for upright attachment.



SLI



SLO

## MODEL SL2950-A

- Adult size
- Accepts 5/8" uprights
- 1/8" Stainless Steel
- 3.5" tongue

SLI		SLO	
Order No.	Stirrup Length	Order No.	
SLI-2950-A8	8"	SLO-2950-A8	
SLI-2950-A8.5	8-1/2"	SLO-2950-A8.5	
SLI-2950-A9	9"	SLO-2950-A9	
SLI-2950-A9.5	9-1/2"	SLO-2950-A9.5	
SLI-2950-A10	10"	SLO-2950-A10	
SLI-2950-A10.5	10-1/2"	SLO-2950-A10.5	
SLI-2950-A11	11"	SLO-2950-A11	

## MODEL SL2950-B

- Youth size
- Accepts 5/8" uprights
- 1/8" Stainless Steel
- 2.8" tongue

SLI		SLO	
Order No.	Stirrup Length	Order No.	
SLI-2950-B6.75	6-3/4"	SLO-2950-B6.75	
SLI-2950-B7.5	7-1/2"	SLO-2950-B7.5	
SLI-2950-B8.25	8-1/4"	SLO-2950-B8.25	
SLI-2950-B9	9"	SLO-2950-B9	

## MODEL SL2950-C

- Child size
- Accepts 1/2" uprights
- 3/32" Stainless Steel
- 2.1" tongue

SLI		SLO	
Order No.	Stirrup Length	Order No.	
SLI-2950-C4.5	4-1/2"	SLO-2950-C4.5	
SLI-2950-C5.25	5-1/4"	SLO-2950-C5.25	
SLI-2950-C6	6"	SLO-2950-C6	
SLI-2950-C6.75	6-3/4"	SLO-2950-C6.75	

**NOTE:** For Titanium ankle joints, add prefix "TI" to the order number, e.g., TISLI-2950-A9 (Titanium Slim Line inside recess ankle joints with 9" stirrup).



# SLIM LINE DOUBLE ACTION SPLIT STIRRUPS

Ankle joints are supplied with springs unless pins are specified.

## MODEL SL2960

Slim line split stirrup upright only



Order No.	Size	Upright Dimension
SL2960-A	A	1/8" x 7/8"
SL2960-B	B	1/8" x 3/4"
SL2960-C	C	3/32" x 11/16"

## MODELS SLI-2962 & SLO-2962

Slim line split stirrup with ankle joint



SLI		Stirrup Dimensions	SLO	
Order No.	Size		Order No.	Size
SLI-2962-A	A	1/8" x 7/8"	SLO-2962-A	A
SLI-2962-B	B	1/8" x 3/4"	SLO-2962-B	B
SLI-2962-C	C	3/32" x 11/16"	SLO-2962-C	C

## MODEL SL2964

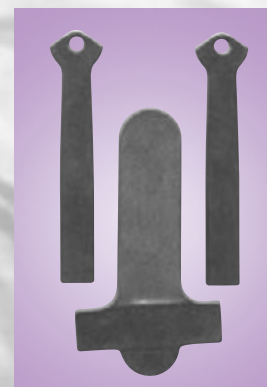
Slim line split stirrup uprights with caliper plate



Order No.	Size	Foot
SL2964-AL	A	Left
SL2964-AR	A	Right
SL2964-AP	A	Pair
SL2964-BL	B	Left
SL2964-BR	B	Right
SL2964-BP	B	Pair
SL2964-CL	C	Left
SL2964-CR	C	Right
SL2964-CP	C	Pair

## MODEL SL2964-X

Slim line split stirrup uprights with wide flange caliper plate



Order No.	Size	Foot
SL2964-XAL	A	Left
SL2964-XAR	A	Right
SL2964-XAP	A	Pair
SL2964-XBL	B	Left
SL2964-XBR	B	Right
SL2964-XBP	B	Pair

## MODELS SLI-2966 & SLO-2966

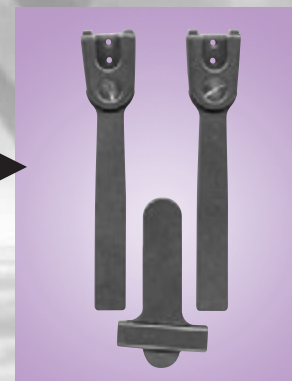
Slim line split stirrups with ankle joints and caliper plate



SLI			SLO	
Order No.	Size	Foot	Order No.	Size
SLI-2966-AL	A	Left	SLO-2966-AL	A
SLI-2966-AR	A	Right	SLO-2966-AR	A
SLI-2966-AP	A	Pair	SLO-2966-AP	A
SLI-2966-BL	B	Left	SLO-2966-BL	B
SLI-2966-BR	B	Right	SLO-2966-BR	B
SLI-2966-BP	B	Pair	SLO-2966-BP	B
SLI-2966-CL	C	Left	SLO-2966-CL	C
SLI-2966-CR	C	Right	SLO-2966-CR	C
SLI-2966-CP	C	Pair	SLO-2966-CP	C

## MODELS SLI-2966-X & SLO-2966-X

Slim line split stirrups with ankle joints and wide flange caliper plate



SLI			SLO	
Order No.	Size	Foot	Order No.	Size
SLI-2966-XAL	A	Left	SLO-2966-XAL	A
SLI-2966-XAR	A	Right	SLO-2966-XAR	A
SLI-2966-XAP	A	Pair	SLO-2966-XAP	A
SLI-2966-XBL	B	Left	SLO-2966-XBL	B
SLI-2966-XBR	B	Right	SLO-2966-XBR	B
SLI-2966-XBP	B	Pair	SLO-2966-XBP	B

**NOTE:** For titanium ankle joints use prefix "TI" with order number, e.g., TISLI-2962-B (Titanium Slim Line inside recess ankle joint with Split Stirrup).

# ORIGINAL DOUBLE ACTION ANKLE JOINTS

Lucille M. Becker, CO invented the original Double Action ankle joint in 1963 to achieve a precise, adjustable range-of-motion ankle joint that can allow both dorsiflexion and plantarflexion. Pins and/or springs may be used in a variety of combinations to limit motion and provide assistive force.

## MODEL 2800 WIDE FLANGE STIRRUP ONLY

Becker Orthopedic introduced the wide flange stirrup to stabilize the forces on the foot and the ankle. Three configurations are available, each is made from 1/8" thick stainless steel with two 3/8" bushing holes.

### MODEL 2800-A STIRRUP ONLY

Standard wide flange stirrup with 4-1/2" tongue.

Order No.	Length
2800-A8	8"
2800-A8.5	8-1/2"
2800-A9	9"
2800-A9.5	9-1/2"
2800-A10	10"
2800-A10.5	10-1/2"
2800-A11	11"



### MODEL 2800-X STIRRUP ONLY

The same as model 2800-A except the tongue is 6" long for increased stability.

Order No.	Length
2800-X8	8"
2800-X8.5	8-1/2"
2800-X9	9"
2800-X9.5	9-1/2"
2800-X10	10"
2800-X10.5	10-1/2"
2800-X11	11"



### MODEL 2800-SX STIRRUP ONLY

The unique "web" configuration makes this stirrup the strongest we manufacture. The tongue of this stirrup is 7" long.

Order No.	Length
2800-SX8	8"
2800-SX8.5	8-1/2"
2800-SX9	9"
2800-SX9.5	9-1/2"
2800-SX10	10"
2800-SX10.5	10-1/2"
2800-SX11	11"



### MODEL 2700 STANDARD FLANGE STIRRUP WITH 2800 HEAD

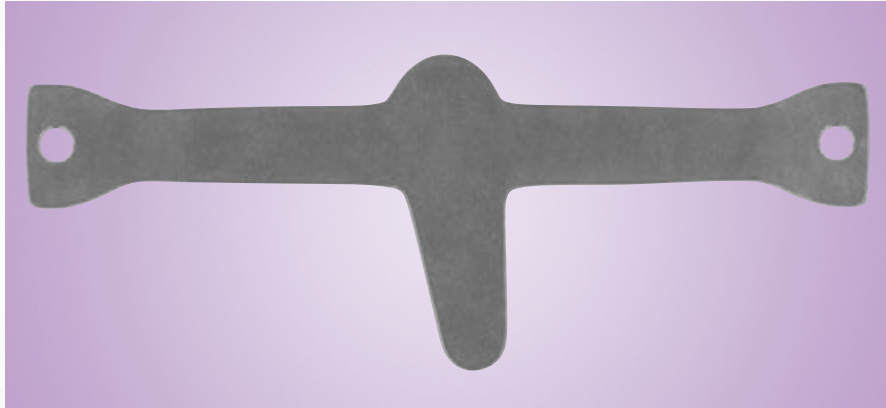
Standard flange stirrup with a 2800 series head configuration. Available in adult and youth sizes only. "A" size stirrup tongues measure 3.5", while "B" size tongues measure 2.8".

Order No.	Length
2700-A7.5	7-1/2"
2700-A8	8"
2700-A8.5	8-1/2"
2700-A9	9"
2700-A9.5	9-1/2"
2700-A10	10"
2700-A10.5	10-1/2"
2700-A11	11"



Order No.	Length
2700-B6.75	6-3/4"
2700-B7.5	7-1/2"
2700-B8.25	8-1/4"
2700-B9	9"

# MODEL 2900 STANDARD FLANGE STIRRUP ONLY



## MODEL 2900-A ADULT STIRRUP ONLY

- 1/8" stainless steel
- Two 3/8" bushing holes
- 3.5" tongue

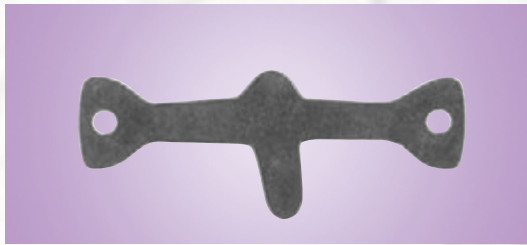
Order No.	Length
2900-A8	8"
2900-A8.5	8-1/2"
2900-A9	9"
2900-A9.5	9-1/2"
2900-A10	10"
2900-A10.5	10-1/2"
2900-A11	11"



## MODEL 2900-B YOUTH STIRRUP ONLY

- 1/8" stainless steel
- Two 3/8" bushing holes
- 2.8" tongue

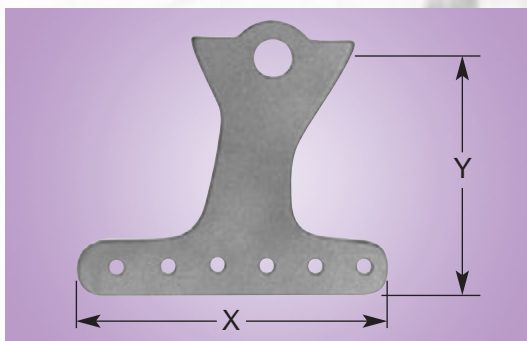
Order No.	Length
2900-B6.75	6-3/4"
2900-B7.5	7-1/2"
2900-B8.25	8-1/4"
2900-B9	9"



## MODEL 2900-C CHILD SIZE STIRRUP ONLY

- 3/32" stainless steel
- Two 5/16" bushing holes
- 2.1" tongue

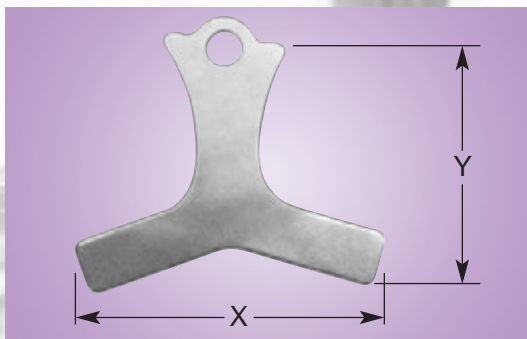
Order No.	Length
2900-C4.5	4-1/2"
2900-C5.25	5-1/4"
2900-C6	6"
2900-C6.75	6-3/4"



## MODEL 2810 STIRRUP INSERT ONLY

This unique Becker design is stamped in one piece with no welding for increased strength.

Order No.	Joint Size	Thickness	X	Y
2810-A2.25	A	1/8"	3"	2.25"
2810-A2.5	A	1/8"	3"	2.5"
2810-A2.75	A	1/8"	3"	2.75"
2810-A3	A	1/8"	3"	3"
2810-C1.8	C	3/32"	2.36"	1.8"
2810-C2.0	C	3/32"	2.36"	2"
2810-C2.3	C	3/32"	2.36"	2.3"



## MODEL 2810-Y STIRRUP INSERT ONLY

The "Y" shaped flanges are preferred by many orthotists.

Order No.	Joint Size	Thickness	X	Y
2810-A-Y	A	1/8"	3.31"	2.61"
2810-C-Y	C	3/32"	3.36"	2.30"

# MODEL 2825

## ORIGINAL DOUBLE ACTION ANKLE JOINTS

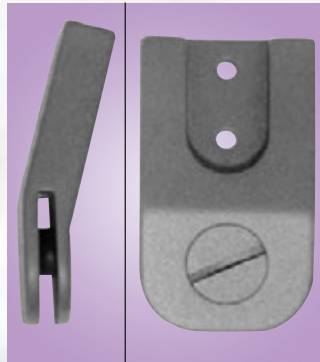
Becker Orthopedic manufactures seven different styles of the Double Action ankle joint. The units detailed below are shipped complete with bushing, screw, ball bearings, springs, and hex set screws. When ordering please specify if you desire pins instead of springs or slotted set screws instead of hex screws. All "A" size joints have a 3/8" bushing hole. All "C" size joints have a 5/16" bushing hole.

**NOTE: "A" size joints are used with both "A" and "B" size stirrups.**



### 2825-A

- 1/8" slot
- 5/8" recess
- Measures 1-1/2" x 2-1/4"



### C2825-A

- 1/8" slot
- 5/8" recess
- Contoured
- Measures 1-3/8" x 2-5/16"



### W2825-A

- 1/8" slot
- 3/4" recess
- Measures 1-1/2" x 2-1/4"



### A2825-A

- 1/8" slot
- 5/8" recess
- Measures 1-1/2" x 2-3/8"
- Machined from 7075-T6 Aluminum



### L2825-A

- 1/8" slot
- 5/8" recess
- Provides smoother spring action
- Measures 1-1/2" x 3"
- Machined from 7075-T6 Aluminum



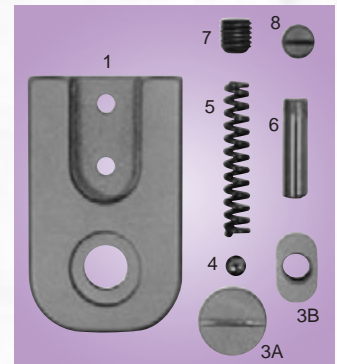
### 2825-C

- 3/32" slot
- 1/2" recess
- Measures 1-3/16" x 1-1/2"



### 2825-C8

- 1/8" slot
- 1/2" recess
- Measures 1-3/16" x 1-1/2"
- Compatible with "A" and "B" size stirrups



To order parts, please specify the order number of the joint, followed by the part number you desire.

### MISCELLANEOUS ANKLE JOINT COMPONENTS

Order No.	Description	Thread Diameter	Compatible with
I-SCREWPIN#18	Ankle Joint Screw-Pin	5/16"-18	SL2845-A and X3245-A
I-SCREWPIN#24	Ankle Joint Screw-Pin	5/16"-24	SLI/SLO-2825-A and 2825-A





## MODEL 2835 DOUBLE ACTION ANKLE JOINT WITH ATTACHED UPRIGHT

We attach the upright bar to the ankle joint to reduce your fabrication time. This model is sent with springs unless pins are specified. Sold individually.

**NOTE: Square edge aluminum uprights are available upon request.**

Order No.	Fits Stirrup Size	Upright Material	Dimensions
W2835-A4	A or B	Round Edge Aluminum	1/4" x 3/4" x 15-3/16"
W2835-A6	A or B	Round Edge Aluminum	3/16" x 3/4" x 15-3/16"
W2835-A6S	A or B	Stainless Steel	3/16" x 3/4" x 15-3/16"
2835-A4	A or B	Round Edge Aluminum	1/4" x 5/8" x 15-3/16"
2835-A6	A or B	Round Edge Aluminum	3/16" x 5/8" x 15-3/16"
2835-A6S	A or B	Stainless Steel	3/16" x 5/8" x 15-3/16"
2835-C6	C	Round Edge Aluminum	3/16" x 1/2" x 11"
2835-C6S	C	Stainless Steel	3/16" x 1/2" x 11"
2835-C8*	C	Round Edge Aluminum	1/8" x 1/2" x 11"
2835-C8S*	C	Stainless Steel	1/8" x 1/2" x 11"

\*Model C8 and C8S come equipped with our 2825-C ankle joint.

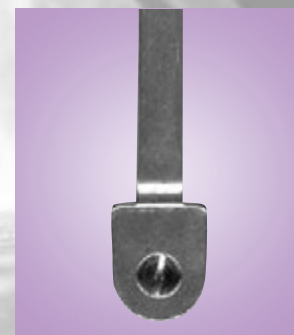
**NOTE: Any size upright in any joint on the preceding page can be made as a special item. Please allow 48 hours to manufacture special items.**



## MODEL 2845 ONE-PIECE ALUMINUM DOUBLE ACTION ANKLE JOINT AND UPRIGHT

Model 2845 is a pre-contoured one-piece drop forging offering lighter weight and improved strength. Springs are included unless pins are specified. Sold individually.

Order No.	Fits Stirrup Size	Dimensions
2845-A	A or B	3/16" x 5/8" x 15-1/2"
SC-2845-C	C	3/16" x 1/2" x 8"



- "A" size uprights are precontoured for improved cosmesis.

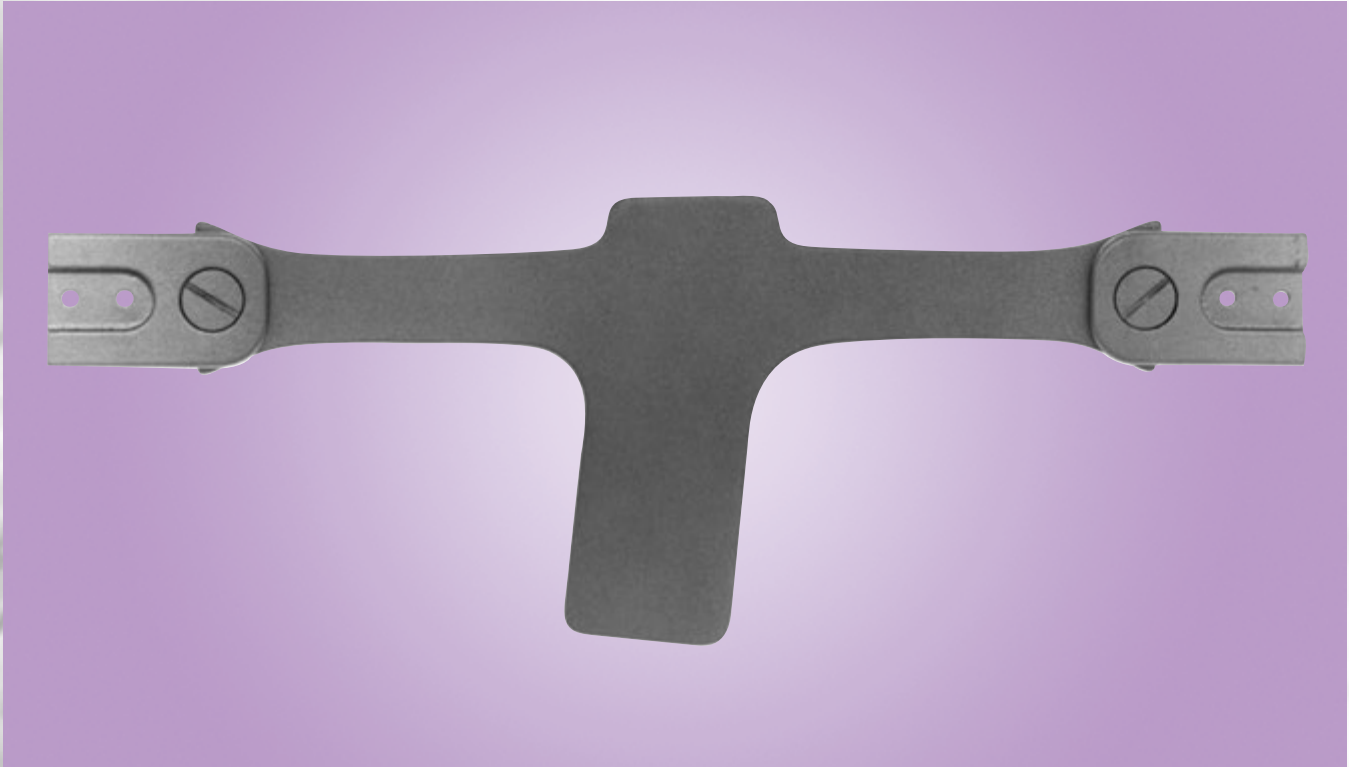
### MODEL SC-2845-C

- Motion is controlled with two set screws
- Not available with springs or pins

# MODEL 2850-A

## WIDE FLANGE STIRRUP WITH DOUBLE ACTION ANKLE JOINTS

This model includes our wide flange stirrup with 4-1/2" tongue and stainless steel Double Action ankle joints. Springs are included unless pins are specified.



DOUBLE ACTION

Order No.	Length	Joint Size	Accepts Bar Width
2850-A8	8"	A	5/8"
2850-A8.5	8-1/2"	A	5/8"
2850-A9	9"	A	5/8"
2850-A9.5	9-1/2"	A	5/8"
2850-A10	10"	A	5/8"
2850-A10.5	10-1/2"	A	5/8"
2850-A11	11"	A	5/8"

- To order different ankle joints, illustrated on page 5.1.11, please add prefix below to the above order number. For example, to order model 2850-A8 with aluminum ankle joints, your order number would be A2850-A8.

Prefix	Description
A	Aluminum Joints
C	Contoured Stainless Steel Joints
W	Stainless Steel Joints with 3/4" Upright Recess
L	Long Aluminum Ankle Joints

# MODEL 2850-X

## WIDE FLANGE LONG TONGUE STIRRUP WITH DOUBLE ACTION ANKLE JOINTS

Model 2850-X is the same as model 2850-A except the tongue is 6" long for increased stability. Springs are included unless pins are specified.

Order No.	Length	Joint Size	Accepts Bar Width
2850-X8	8"	A	5/8"
2850-X8.5	8-1/2"	A	5/8"
2850-X9	9"	A	5/8"
2850-X9.5	9-1/2"	A	5/8"
2850-X10	10"	A	5/8"
2850-X10.5	10-1/2"	A	5/8"
2850-X11	11"	A	5/8"

- To order different ankle joints, illustrated on page 5.1.11, please add prefix below to the above order number. For example, to order model 2850-X8 with aluminum ankle joints, your order number would be A2850-X8.

Prefix	Description
A	Aluminum Joints
C	Contoured Stainless Steel Joints
W	Stainless Steel Joints with 3/4" Upright Recess
L	Long Aluminum Ankle Joints



# MODEL 2850-SX

## WIDE FLANGE LONG TONGUE WEBBED STIRRUP WITH DOUBLE ACTION ANKLE JOINTS

Model 2850-SX has a unique web design, with 7" tongue, that makes it the strongest Double Action stirrup we manufacture. Springs are included unless pins are specified.

Order No.	Length	Joint Size	Accepts Bar Width
2850-SX8	8"	A	5/8"
2850-SX8.5	8-1/2"	A	5/8"
2850-SX9	9"	A	5/8"
2850-SX9.5	9-1/2"	A	5/8"
2850-SX10	10"	A	5/8"
2850-SX10.5	10-1/2"	A	5/8"
2850-SX11	11"	A	5/8"

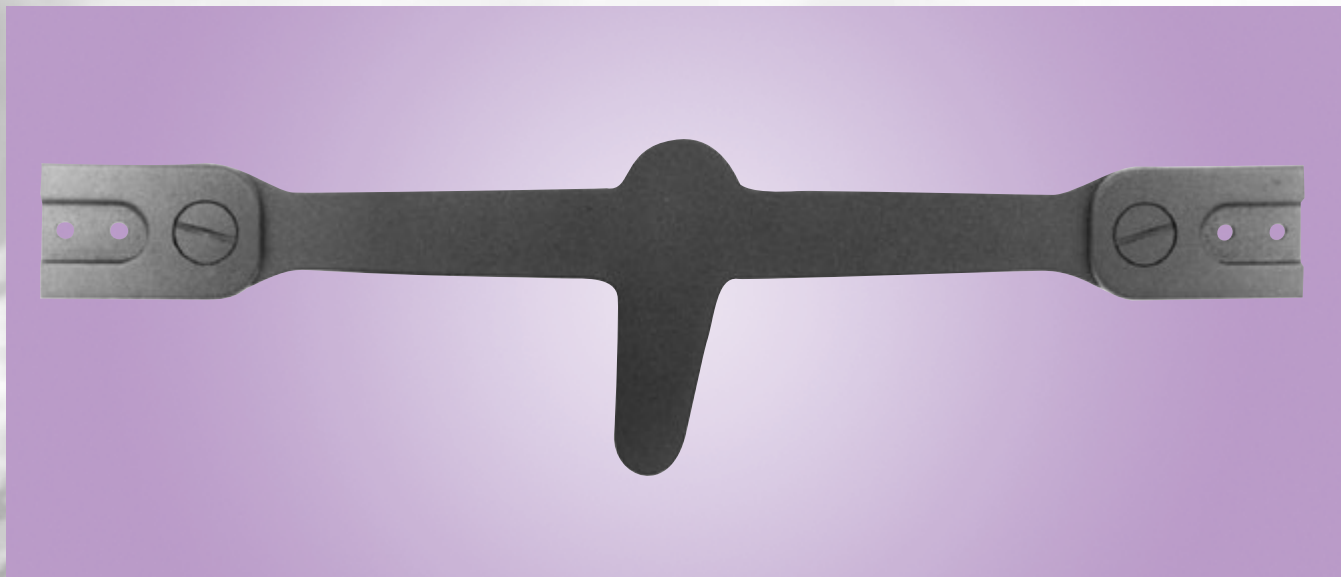
- To order different ankle joints, illustrated on page 5.1.11, please add prefix below to the above order number. For example, to order model 2850-SX8 with aluminum ankle joints, your order number would be A2850-SX8.

Prefix	Description
A	Aluminum Joints
C	Contoured Stainless Steel Joints
W	Stainless Steel Joints with 3/4" Upright Recess
L	Long Aluminum Ankle Joints



# MODEL 2950-A STANDARD FLANGE STIRRUP WITH DOUBLE ACTION ANKLE JOINTS

Recommended when a lightweight Double Action stirrup is needed. This series is available in adult, youth, and child sizes. Springs are included unless pins are specified.



## MODEL 2950-A

- Accepts 5/8" uprights
- 1/8" Stainless Steel
- 3.5" tongue

Order No.	Length
2950-A8	8"
2950-A8.5	8-1/2"
2950-A9	9"
2950-A9.5	9-1/2"
2950-A10	10"
2950-A10.5	10-1/2"
2950-A11	11"

## MODEL 2950-B

- Accepts 5/8" uprights
- 1/8" Stainless Steel
- 2.8" tongue

Order No.	Length
2950-B6.75	6-3/4"
2950-B7.5	7-1/2"
2950-B8.25	8-1/4"
2950-B9	9"

## MODEL 2950-C

- Accepts 1/2" uprights
- 3/32" Stainless Steel
- 2.1" tongue

Order No.	Length
2950-C4.5	4-1/2"
2950-C5.25	5-1/4"
2950-C6	6"
2950-C6.75	6-3/4"

- To order different ankle joints, illustrated on page 5.1.11, please add prefix below to the above order number. For example, to order model 2950-A8 with aluminum ankle joints, your order number would be A2950-A8.

Prefix	Description
A	Aluminum Joints
C	Contoured Stainless Steel Joints
W	Stainless Steel Joints with 3/4" Upright Recess
L	Long Aluminum Ankle Joints



# ORIGINAL DOUBLE ACTION SPLIT STIRRUPS

Ankle joints supplied with springs unless pins are specified.



## MODEL 2960

Split stirrup upright only

Order No.	Size	Upright Dimensions
2960-A	A	1/8" x 7/8"
2960-B	B	1/8" x 3/4"
2960-C	C	3/32" x 11/16"

Order No.	Size	Upright Dimensions
2962-A	A	1/8" x 7/8"
2962-B	B	1/8" x 3/4"
2962-C	C	3/32" x 11/16"

## MODEL 2962

Split stirrup upright with ankle joint



## MODEL 2964

Split stirrup uprights with caliper plate

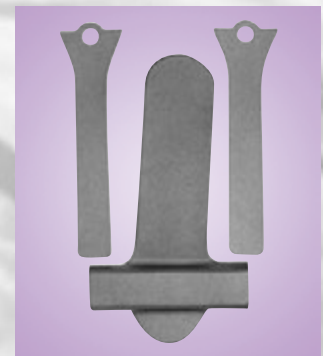


Order No.	Size	Foot
2964-AL	A	Left
2964-AR	A	Right
2964-AP	A	Pair
2964-BL	B	Left
2964-BR	B	Right
2964-BP	B	Pair
2964-CL	C	Left
2964-CR	C	Right
2964-CP	C	Pair

Order No.	Size	Foot
2964-XAL	A	Left
2964-XAR	A	Right
2964-XAP	A	Pair
2964-XBL	B	Left
2964-XBR	B	Right
2964-XBP	B	Pair

## MODEL 2964-X

Split stirrup uprights with wide flange caliper plate



## MODEL 2966

Split stirrup uprights with ankle joints and caliper plate



Order No.	Size	Foot
2966-AL	A	Left
2966-AR	A	Right
2966-AP	A	Pair
2966-BL	B	Left
2966-BR	B	Right
2966-BP	B	Pair
2966-CL	C	Left
2966-CR	C	Right
2966-CP	C	Pair

Order No.	Size	Foot
2966-XAL	A	Left
2966-XAR	A	Right
2966-XAP	A	Pair
2966-XBL	B	Left
2966-XBR	B	Right
2966-XBP	B	Pair

## MODEL 2966-X

Split stirrup uprights with ankle joints and wide flange caliper plate



**SECTION V**

**ANKLE COMPONENTS**

**Double Action**

**Standard Action**

**Dorsiflexion Assist**

**Miscellaneous Stirrup  
Components**

**Thermoplastic Ankle Joints  
for Plastic AFO/KAFO**



## STANDARD ACTION ANKLE JOINTS

The Becker Orthopedic Standard Action ankle joint system provides the orthotist with a versatile system for controlling the range-of-motion of the foot. In our system, the slot depth of the ankle joint remains the same for all desired motions. Changing the range-of-motion is accomplished by modifying the stirrup head. Five configurations are shown below. Unless otherwise specified, stirrups will be shipped with stiff ankle. Any other configuration can be made from a stiff ankle. Other stirrup heads have a code letter which you must list after the order number if you want us to modify the head for you. For example, if you wanted an 8" stirrup with a stiff ankle, the order number would be **3000-A8**. If you wanted free motion, you would add the code letter suffix "**F**" after the order number, e.g., **3000-A8F**.

Code Letter Suffix	Description
No Code Letter	Stiff Ankle
L	Limited Motion
F	Free Motion
E	Equinus Stop
C	Calcaneus Stop



**STIFF ANKLE**  
**NO CODE LETTER**

No dorsiflexion or plantar flexion.



**LIMITED MOTION**  
**CODE LETTER "L"**

Head allows approximately 3° of dorsiflexion and plantar flexion.



**FREE MOTION**  
**CODE LETTER "F"**

Head allows full range-of-motion.



**EQUINUS STOP**  
**CODE LETTER "E"**

Head allows full range of dorsiflexion and no plantar flexion.

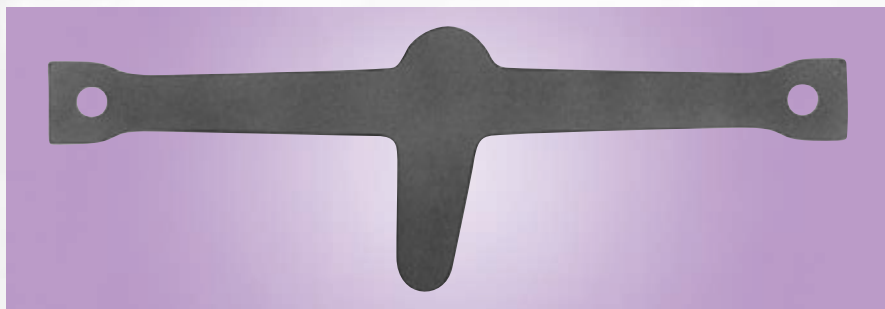


**CALCANEUS STOP**  
**CODE LETTER "C"**

Head allows full range of plantar flexion and no dorsiflexion.

# MODEL 3000 STANDARD FLANGE STIRRUP ONLY

Our Standard Action stirrups are available in adult, youth, and child sizes. Stiff ankle will be supplied unless a code letter suffix is added to the order number (see chart on page 5.2.2).



## MODEL 3000-A ADULT STIRRUP ONLY

- 1/8" stainless steel
- Two 3/8" bushing holes
- 3.5" tongue

Order No.	Length
3000-A8	8"
3000-A8.5	8-1/2"
3000-A9	9"
3000-A9.5	9-1/2"
3000-A10	10"
3000-A10.5	10-1/2"
3000-A11	11"

## MODEL 3000-B YOUTH STIRRUP ONLY

- 1/8" stainless steel
- Two 3/8" bushing holes
- 2.8" tongue

Order No.	Length
3000-B6.75	6-3/4"
3000-B7.5	7-1/2"
3000-B8.25	8-1/4"
3000-B9	9"

## MODEL 3000-C CHILD STIRRUP ONLY

- 3/32" stainless steel
- Two 5/16" bushing holes
- 2.1" tongue

Order No.	Length
3000-C4.5	4-1/2"
3000-C5.25	5-1/4"
3000-C6	6"
3000-C6.75	6-3/4"

# MODEL 3000 WIDE FLANGE STIRRUP ONLY

These stirrups may be utilized with any Standard Action ankle joint for increased stability. Three configurations are available: each is made from 1/8" thick stainless steel with two 3/8" bushing holes. Stiff ankle will be supplied unless a code letter suffix is added to the order number (see chart on page 5.2.2).

## MODEL W3000 STIRRUP ONLY

Standard wide flange stirrup with 4-1/2" tongue.

## MODEL X3000 STIRRUP ONLY

The same as model W3000 except the tongue is 6" long for increased stability.

## MODEL SX3000 STIRRUP ONLY

The unique "web" configuration makes this stirrup the strongest we manufacture. The tongue of this stirrup is 7" long.



Order No.	Stirrup Length
W3000-A8	8"
W3000-A8.5	8-1/2"
W3000-A9	9"
W3000-A9.5	9-1/2"
W3000-A10	10"
W3000-A10.5	10-1/2"
W3000-A11	11"

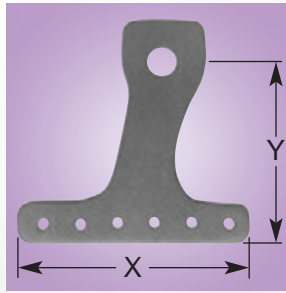
Order No.	Stirrup Length
X3000-A8	8"
X3000-A8.5	8-1/2"
X3000-A9	9"
X3000-A9.5	9-1/2"
X3000-A10	10"
X3000-A10.5	10-1/2"
X3000-A11	11"

Order No.	Stirrup Length
SX3000-A8	8"
SX3000-A8.5	8-1/2"
SX3000-A9	9"
SX3000-A9.5	9-1/2"
SX3000-A10	10"
SX3000-A10.5	10-1/2"
SX3000-A11	11"

# MODEL 3010 STIRRUP INSERT ONLY

This unique Becker design is stamped in one-piece with no welding for increased strength.

Order No.	Joint Size	Thickness	X	Y
3010-A2.25	A & B	1/8"	3"	2.25"
3010-A2.5	A & B	1/8"	3"	2.5"
3010-A2.75	A & B	1/8"	3"	2.75"
3010-A3	A & B	1/8"	3"	3"
3010-C1.8	C	3/32"	2.36"	1.8"
3010-C2.0	C	3/32"	2.36"	2"
3010-C2.3	C	3/32"	2.36"	2.3"

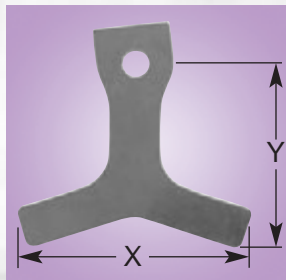


Our Standard Action stirrups are available in adult, youth, and child sizes. Stiff ankle will be supplied unless a code letter suffix is added to the order number (see chart below). For example, to order model 3010-A2.25 with free motion, your order number would be 3010-A2.25F

# MODEL 3010-Y Y STIRRUP INSERT ONLY

The "Y" shaped flanges are preferred by many orthotists.

Order No.	Joint Size	Thickness	X	Y
3010-A-Y	A & B	1/8"	3.31"	2.61"
3010-C-Y	C	3/32"	3.36"	2.30"



Code Letter Suffix	Description
No Code Letter	Stiff Ankle
L	Limited Motion
F	Free Motion
E	Equinus Stop
C	Calcaneus Stop

• See page 5.2.2 for illustrations

# MODEL 3025 STANDARD ACTION ANKLE JOINTS

Becker Orthopedic manufactures five sizes of the Standard Action ankle joint. Each is made from 303 stainless steel. All "A" size joints have a 3/8" bushing hole. All "C" size joints have a 5/16" bushing hole.



## 3025-A:

- 1/8" slot
- 5/8" recess
- Measures 1" x 2-1/4"



## 3025-AW:

- 1/8" slot
- 3/4" recess
- Measures 1" x 2-1/4"



## 3025-B:

- 1/8" slot
- 5/8" recess
- Measures 3/4" x 2-1/8"



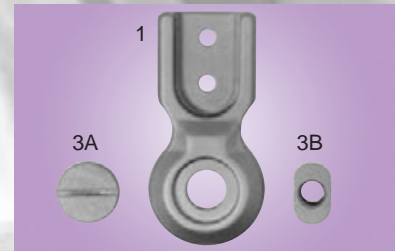
## 3025-C

- 3/32" slot
- 1/2" recess
- Measures 5/8" x 1-5/8"



## 3025-C8:

- 1/8" slot
- 1/2" recess
- Measures 5/8" x 1-5/8"
- Compatible with "A" and "B" size stirrups



To order parts, please specify the order number of the joint, followed by the part number you desire.

# MODEL 3035

## STANDARD ACTION ANKLE JOINT WITH ATTACHED UPRIGHT

We attach the upright bar to the ankle joint to reduce your fabrication time. Sold individually.

**NOTE: Square edge aluminum uprights are available upon request.**

Order No.	Fits Stirrup Size	Upright Material	Dimensions
W3035-A4	A	Round Edge Aluminum	1/4" x 3/4" x 15-1/4"
W3035-A6	A	Round Edge Aluminum	3/16" x 3/4" x 15-1/4"
W3035-A6S	A	Stainless Steel	3/16" x 3/4" x 15-1/4"
3035-A4	A	Round Edge Aluminum	1/4" x 5/8" x 15-1/4"
3035-A6	A	Round Edge Aluminum	3/16" x 5/8" x 15-1/4"
3035-A6S	A	Stainless Steel	3/16" x 5/8" x 15-1/4"
3035-B6	B	Round Edge Aluminum	3/16" x 5/8" x 15-1/8"
3035-B6S	B	Stainless Steel	3/16" x 5/8" x 15-1/8"
3035-C6	C	Round Edge Aluminum	3/16" x 1/2" x 11"
3035-C6S	C	Stainless Steel	3/16" x 1/2" x 11"
3035-C8*	C	Round Edge Aluminum	1/8" x 1/2" x 11"
3035-C8S*	C	Stainless Steel	1/8" x 1/2" x 11"
3035-I8S*	C	Stainless Steel	1/8" x 1/2" x 11"

\*Model C8, C8S and I8S come equipped with our 3025-C ankle joint.

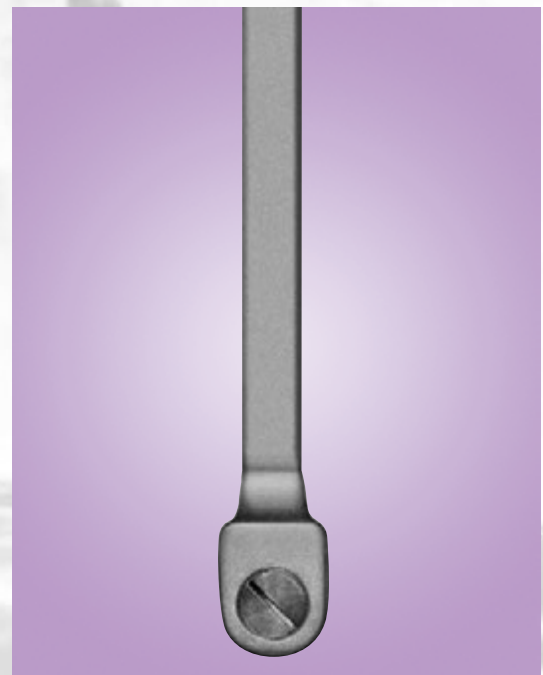
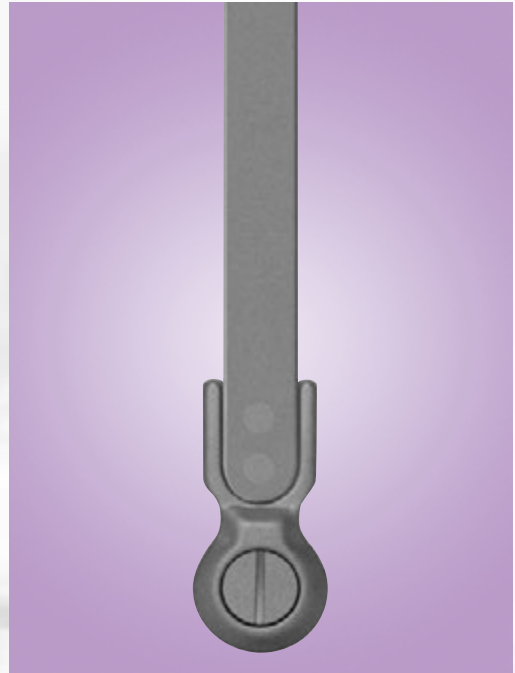
**NOTE: Any size upright in any joint on the preceding page can be made as a special item. Please allow 48 hours to manufacture special items.**

# MODEL 3045

## ONE PIECE ALUMINUM STANDARD ACTION ANKLE JOINT AND UPRIGHT

Model 3045 is a one-piece offering lighter weight and improved strength. Sold individually.

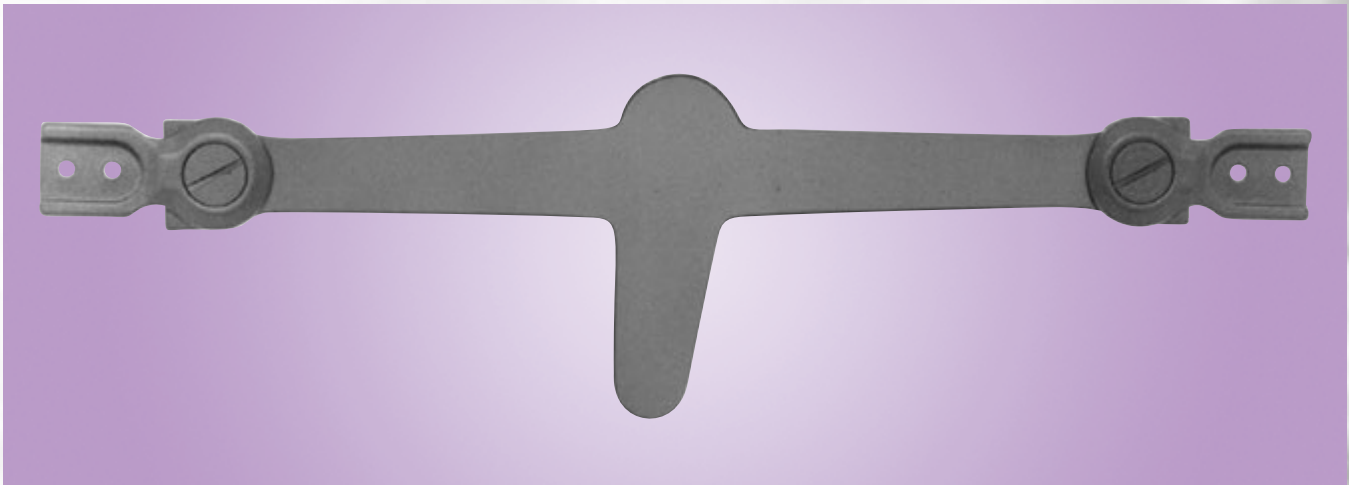
Order No.	Fits Stirrup Size	Dimensions
3045-A	A	3/16" x 5/8" x 16"
3045-B	B	3/16" x 5/8" x 16"
3045-C	C	3/16" x 1/2" x 7-7/8"



# MODEL 3050

## STANDARD FLANGE STIRRUP WITH STANDARD ACTION ANKLE JOINTS

This model is available in adult, youth, and child sizes. Stiff ankle will be supplied unless a code letter suffix is added to the order number (see chart below). For example, to order model 3050-A8 with free motion, your order number would be 3050-A8F.



### MODEL 3050-A

- Accepts 5/8" uprights
- 1/8" Stainless Steel
- 3.5" tongue

Order No.	Length
3050-A8	8"
3050-A8.5	8-1/2"
3050-A9	9"
3050-A9.5	9-1/2"
3050-A10	10"
3050-A10.5	10-1/2"
3050-A11	11"

### MODEL W3050-A

- Accepts 3/4" uprights
- 1/8" Stainless Steel
- 3.5" tongue

Order No.	Length
W3050-A8	8"
W3050-A8.5	8-1/2"
W3050-A9	9"
W3050-A9.5	9-1/2"
W3050-A10	10"
W3050-A10.5	10-1/2"
W3050-A11	11"

### MODEL 3050-B

- Accepts 5/8" uprights
- 1/8" Stainless Steel
- 2.8" tongue

Order No.	Length
3050-B6.75	6-3/4"
3050-B7.5	7-1/2"
3050-B8.25	8-1/4"
3050-B9	9"

### MODEL 3050-C

- Accepts 1/2" uprights
- 3/32" Stainless Steel
- 2.1" tongue

Order No.	Length
3050-C4.5	4-1/2"
3050-C5.25	5-1/4"
3050-C6	6"
3050-C6.75	6-3/4"

Code Letter Suffix	Description
No Code Letter	Stiff Ankle
L	Limited Motion
F	Free Motion
E	Equinus Stop
C	Calcaneus Stop

- See page 5.2.2 for illustrations

# STANDARD ACTION SPLIT STIRRUPS

Our Standard Action split stirrups will be supplied with a stiff ankle unless a code letter suffix is added to the order number (see chart on page 5.2.2). For example, to order model 3060-A with free motion, your order number would be 3060-AF.



## MODEL 3060

Split stirrup upright only

Order No.	Size	Upright Dimensions
3060-A	A	1/8" x 7/8"
3060-B	B	1/8" x 3/4"
3060-C	C	3/32" x 11/16"

Order No.	Size	Upright Dimension
3062-A	A	1/8" x 7/8"
3062-B	B	1/8" x 3/4"
3062-C	C	3/32" x 11/16"

## MODEL 3062

Split stirrup upright with ankle joint



## MODEL 3064

Split stirrup uprights with caliper plate



Order No.	Size	Foot
3064-AL	A	Left
3064-AR	A	Right
3064-AP	A	Pair
3064-BL	B	Left
3064-BR	B	Right
3064-BP	B	Pair
3064-CL	C	Left
3064-CR	C	Right
3064-CP	C	Pair

Order No.	Size	Foot
3064-XAL	A	Left
3064-XAR	A	Right
3064-XAP	A	Pair
3064-XBL	B	Left
3064-XBR	B	Right
3064-XBP	B	Pair

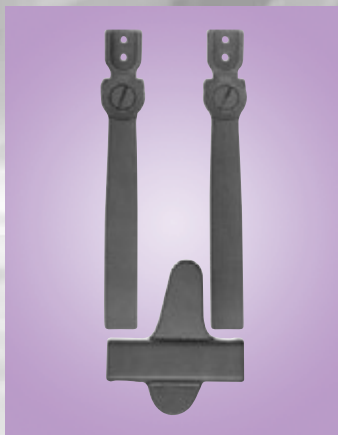
## MODEL 3064-X

Split stirrup uprights with wide flange caliper plate



## MODEL 3066

Split stirrup uprights with ankle joints and caliper plate



Order No.	Size	Foot
3066-AL	A	Left
3066-AR	A	Right
3066-AP	A	Pair
3066-BL	B	Left
3066-BR	B	Right
3066-BP	B	Pair
3066-CL	C	Left
3066-CR	C	Right
3066-CP	C	Pair

Order No.	Size	Foot
3066-XAL	A	Left
3066-XAR	A	Right
3066-XAP	A	Pair
3066-XBL	B	Left
3066-XBR	B	Right
3066-XBP	B	Pair

## MODEL 3066-X

Split stirrup uprights with ankle joints and wide flange caliper plate





**SECTION V**

**ANKLE COMPONENTS**

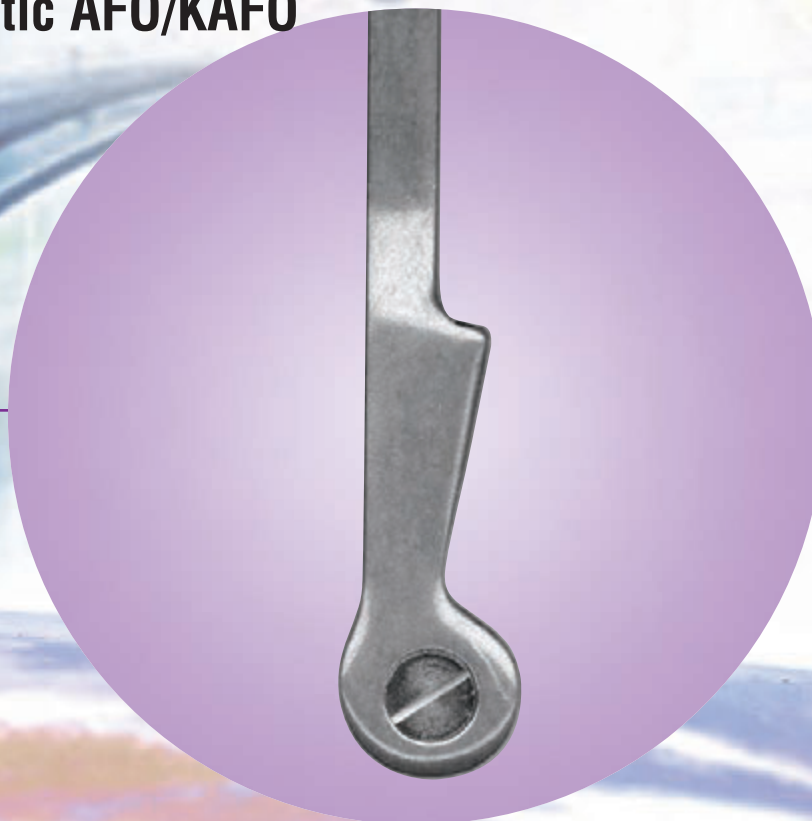
**Double Action**

**Standard Action**

**Dorsiflexion Assist**

**Miscellaneous Stirrup  
Components**

**Thermoplastic Ankle Joints  
for Plastic AFO/KAFO**



# DORSIFLEXION ASSIST ANKLE JOINTS

The Becker Orthopedic Dorsiflexion Assist ankle joint system is designed to allow a limited amount of plantarflexion in addition to dorsiflexion assist. The result is a smooth, powerful spring action throughout the gait cycle.

## MODEL 3200 STANDARD FLANGE STIRRUP ONLY

Our Dorsiflexion Assist stirrups are available in adult, youth, and child sizes.



### MODEL 3200-A ADULT STIRRUP ONLY

- 1/8" stainless steel
- Two 3/8" bushing holes
- 3.5" tongue

Order No.	Length
3200-A8	8"
3200-A8.5	8-1/2"
3200-A9	9"
3200-A9.5	9-1/2"
3200-A10	10"
3200-A10.5	10-1/2"
3200-A11	11"
3200-A11.5	11-1/2"

### MODEL 3200-B YOUTH STIRRUP ONLY

- 1/8" stainless steel
- Two 3/8" bushing holes
- 2.8" tongue

Order No.	Length
3200-B6.75	6-3/4"
3200-B7.5	7-1/2"
3200-B8.25	8-1/4"
3200-B9	9"

### MODEL 3200-C CHILD STIRRUP ONLY

- 3/32" stainless steel
- Two 5/16" bushing holes
- 2.1" tongue

Order No.	Length
3200-C4.5	4-1/2"
3200-C5.25	5-1/4"
3200-C6	6"
3200-C6.75	6-3/4"

## MODEL 3200 WIDE FLANGE STIRRUP ONLY

These stirrups are to be utilized with any of our Dorsiflexion Assist ankle joints for increased stability. Three configurations are available: each is made from 1/8" thick stainless steel with two 3/8" bushing holes.

### MODEL W3200 STIRRUP ONLY

Standard wide flange stirrup with 4-1/2" tongue.



Order No.	Length
W3200-A8	8"
W3200-A8.5	8-1/2"
W3200-A9	9"
W3200-A9.5	9-1/2"
W3200-A10	10"
W3200-A10.5	10-1/2"
W3200-A11	11"
W3200-A11.5	11-1/2"

### MODEL 3200X STIRRUP ONLY

The same as model W3200 except the tongue is 6" long for increased stability.



Order No.	Length
3200-X8	8"
3200-X8.5	8-1/2"
3200-X9	9"
3200-X9.5	9-1/2"
3200-X10	10"
3200-X10.5	10-1/2"
3200-X11	11"

### MODEL SX3200 STIRRUP ONLY

The unique "web" configuration makes this stirrup the strongest we manufacture. The tongue of this stirrup is 7" long.

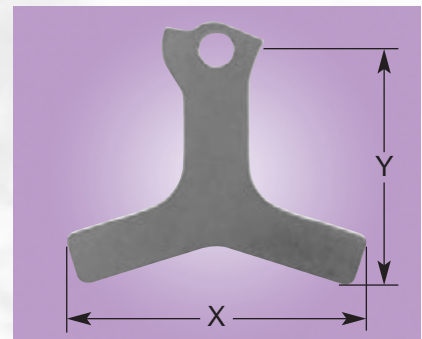
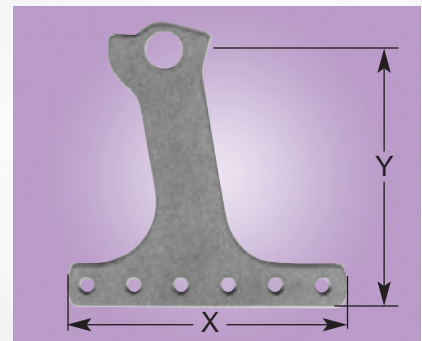


Order No.	Length
SX3200-A8	8"
SX3200-A8.5	8-1/2"
SX3200-A9	9"
SX3200-A9.5	9-1/2"
SX3200-A10	10"
SX3200-A10.5	10-1/2"
SX3200-A11	11"

## MODEL 3210 STIRRUP INSERT ONLY

This unique Becker design is stamped in one-piece with no welding for increased strength.

Order No.	Joint Size	Thickness	X	Y
3210-A2.25	A & B	1/8"	3"	2.25"
3210-A2.5	A & B	1/8"	3"	2.5"
3210-A2.75	A & B	1/8"	3"	2.75"
3210-A3	A & B	1/8"	3"	3"
3210-C1.8	C	3/32"	2.36"	1.8"
3210-C2.0	C	3/32"	2.36"	2"
3210-C2.3	C	3/32"	2.36"	2.3"



## MODEL 3210-Y Y STIRRUP INSERT ONLY

The "Y" shaped flanges are preferred by many orthotists.

Order No.	Joint Size	Thickness	X	Y
3210-A-Y	A & B	1/8"	3.31"	2.61"
3210-C-Y	C	3/32"	3.36"	2.3"

## MODEL 3225 DORSIFLEXION ASSIST ANKLE JOINT UNITS

Becker Orthopedic manufactures four sizes of the Dorsiflexion Assist ankle joint. Each is made from 303 stainless steel. All "A" size joints have a 3/8" bushing hole. All "C" size joints have a 5/16" bushing hole. Sold individually or in pairs. **Please specify left or right when ordering individually.**



### 3225-A

- 1/8" slot
- 5/8" recess
- Measures 1-1/8" x 2-1/4"



### 3225-B

- 1/8" slot
- 5/8" recess
- Measures 1-1/16" x 2"



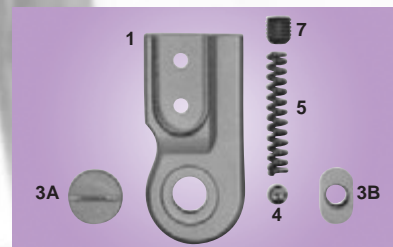
### 3225-C

- 3/32" slot
- 1/2" recess
- Measures 1" x 1-3/4"



### 3225-C8

- 1/8" slot
- 1/2" recess
- Measures 1" x 1-3/4"
- Compatible with "A" and "B" size stirrups



To order parts, please specify the order number of the joint, followed by the part number you desire.

## MODEL 3235 DORSIFLEXION ASSIST ANKLE JOINT WITH ATTACHED UPRIGHT



We attach the upright bar to the ankle joint to reduce your fabrication time. Sold individually or in pairs. **Please specify left or right when ordering individually.**

**NOTE: Square edge aluminum uprights are available upon request.**

Order No.	Fits Stirrup Size	Upright Material	Dimensions
3235-A4	A	Round Edge Aluminum	1/4" x 5/8" x 15-1/4"
3235-A6	A	Round Edge Aluminum	3/16" x 5/8" x 15-1/4"
3235-A6S	A	Stainless Steel	3/16" x 5/8" x 15-1/4"
3235-B6	B	Round Edge Aluminum	3/16" x 5/8" x 15-1/8"
3235-B6S	B	Stainless Steel	3/16" x 5/8" x 15-1/8"
3235-C6	C	Round Edge Aluminum	3/16" x 1/2" x 11"
3235-C6S	C	Stainless Steel	3/16" x 1/2" x 11"
3235-C8*	C	Round Edge Aluminum	1/8" x 1/2" x 11"
3235-C8S*	C	Stainless Steel	1/8" x 1/2" x 11"

\*Model C8 and C8S come equipped with our 3225-C ankle joint.

**NOTE: Any size upright in any joint on the preceding page can be made as a special item. Please allow 48 hours to manufacture special items.**

## MODEL 3245 ONE-PIECE ALUMINUM DORSIFLEXION ASSIST ANKLE JOINT AND UPRIGHT

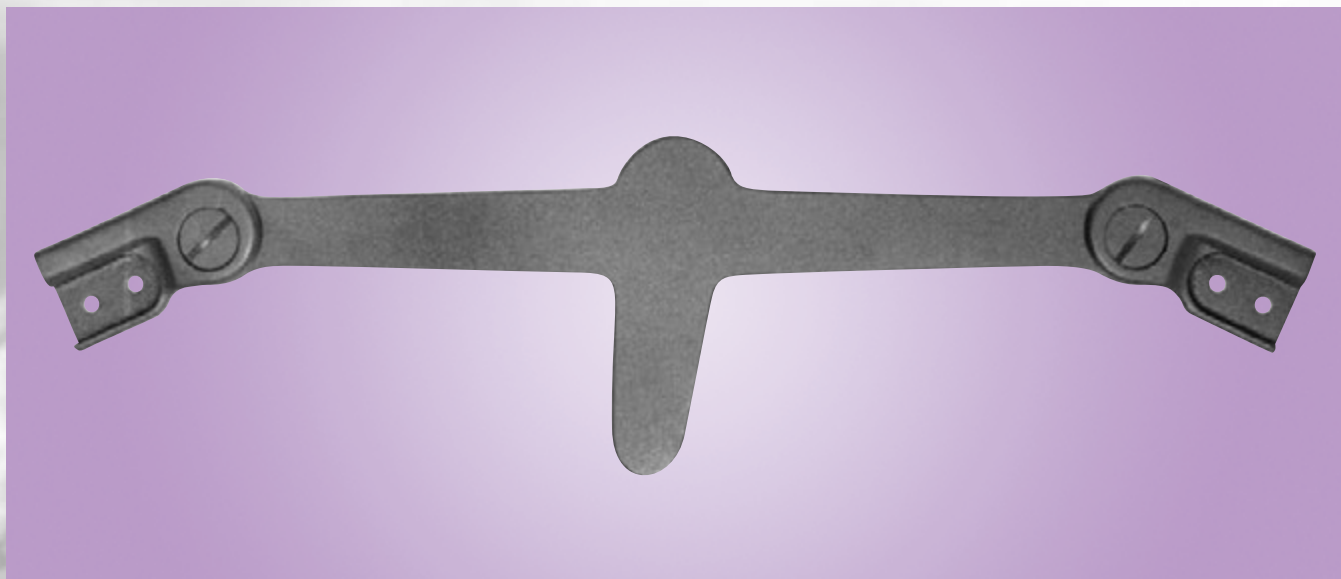


Model 3245 is a pre-contoured one-piece drop forging offering lighter weight and improved strength. Sold individually or in pairs. **Please specify left or right when ordering individually.**

Order No.	Fits Stirrup Size	Dimensions
3245-A	A or B	3/16" x 5/8" x 16-1/2"
3245-C	C	3/16" x 1/2" x 10-1/2"

# MODEL 3250 STANDARD FLANGE STIRRUP WITH DORSIFLEXION ASSIST ANKLE JOINTS

This model is available in adult, youth, and child sizes.



## MODEL 3250-A

- Accepts 5/8" upright
- 1/8" Stainless Steel
- 3.5" tongue

Order No.	Length
3250-A8	8"
3250-A8.5	8-1/2"
3250-A9	9"
3250-A9.5	9-1/2"
3250-A10	10"
3250-A10.5	10-1/2"
3250-A11	11"

## MODEL 3250-B

- Accepts 5/8" upright
- 1/8" Stainless Steel
- 2.8" tongue

Order No.	Length
3250-B6.75	6-3/4"
3250-B7.5	7-1/2"
3250-B8.25	8-1/4"
3250-B9	9"

## MODEL 3250-C

- Accepts 1/2" upright
- 3/32" Stainless Steel
- 2.1" tongue

Order No.	Length
3250-C4.5	4-1/2"
3250-C5.25	5-1/4"
3250-C6	6"
3250-C6.75	6-3/4"

# DORSIFLEXION ASSIST SPLIT STIRRUPS



## MODEL 3260

Split stirrup upright only

Order No.	Size	Upright Dimensions
3260-A	A	1/8" x 7/8"
3260-B	B	1/8" x 3/4"
3260-C	C	3/32" x 11/16"

Order No.	Size	Upright Dimensions
3262-A	A	1/8" x 7/8"
3262-B	B	1/8" x 3/4"
3262-C	C	3/32" x 11/16"

## MODEL 3262

Split stirrup upright with ankle joint  
Sold individually.  
Please specify left or right.



## MODEL 3264

Split stirrup uprights with caliper plate

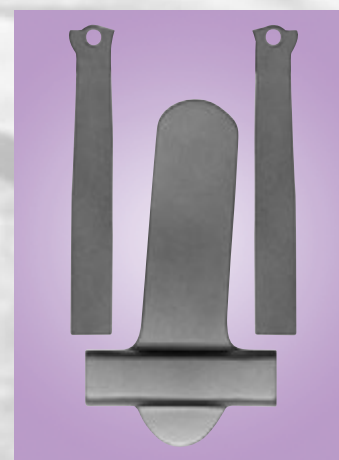


Order No.	Size	Foot
3264-AL	A	Left
3264-AR	A	Right
3264-AP	A	Pair
3264-BL	B	Left
3264-BR	B	Right
3264-BP	B	Pair
3264-CL	C	Left
3264-CR	C	Right
3264-CP	C	Pair

Order No.	Size	Foot
3264-XAL	A	Left
3264-XAR	A	Right
3264-XAP	A	Pair
3264-XBL	B	Left
3264-XBR	B	Right
3264-XBP	B	Pair

## MODEL 3264-X

Split stirrup uprights with wide flange caliper plate



## MODEL 3266

Split stirrup uprights with ankle joints and caliper plate



Order No.	Size	Foot
3266-AL	A	Left
3266-AR	A	Right
3266-AP	A	Pair
3266-BL	B	Left
3266-BR	B	Right
3266-BP	B	Pair
3266-CL	C	Left
3266-CR	C	Right
3266-CP	C	Pair

Order No.	Size	Foot
3266-XAL	A	Left
3266-XAR	A	Right
3266-XAP	A	Pair
3266-XBL	B	Left
3266-XBR	B	Right
3266-XBP	B	Pair

## MODEL 3266-X

Split stirrup uprights with ankle joints and wide flange caliper plate



DORSIFLEXION ASSIST

# DORSIFLEXION PLUS ANKLE JOINTS

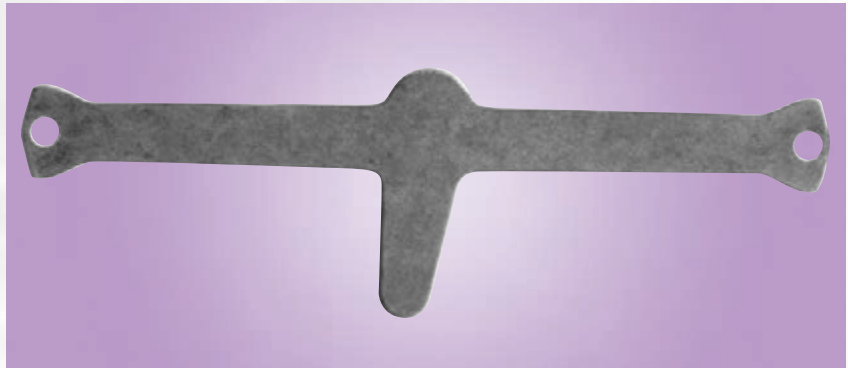
The Dorsiflexion Plus system was designed for patients requiring a stronger dorsiflexion assist action. The extended spring provides a very smooth movement.

## MODEL X3200: DORSIFLEXION PLUS STANDARD FLANGE STIRRUP ONLY

Our Dorsiflexion Plus stirrups are only available in adult sizes. The tongue of this stirrup is 3-1/2" long.

### X3200-A ADULT STIRRUP ONLY

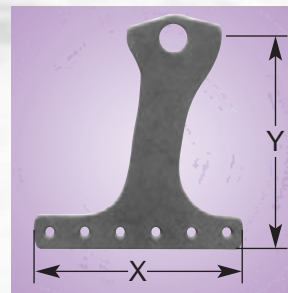
Order No.	Stirrup Length
X3200-A8	8"
X3200-A8.5	8-1/2"
X3200-A9	9"
X3200-A9.5	9-1/2"
X3200-A10	10"
X3200-A10.5	10-1/2"
X3200-A11	11"
X3200-A11.5	11-1/2"



### X3210-A STIRRUP INSERT ONLY

This unique Becker design is stamped in one piece with no welding for increased strength.

Order No.	Joint Size	Thickness	X	Y
X3210-A2.25	A	1/8"	3"	2.25"
X3210-A2.5	A	1/8"	3"	2.5"
X3210-A2.75	A	1/8"	3"	2.75"
X3210-A3	A	1/8"	3"	3"



### X3210-A-Y Y STIRRUP INSERT ONLY

The "Y" shaped flanges are preferred by many orthotists.

Order No.	Joint Size	Thickness	X	Y
X3210-A-Y	A	1/8"	3.31"	2.61"



### X3245-A ADULT ONE-PIECE ALUMINUM DORSIFLEXION PLUS ANKLE JOINT AND UPRIGHT

Model X3245-A is a pre-contoured one-piece drop forging offering lighter weight and improved strength. Please choose plain or anodized aluminum.

Sold individually or in pairs. **Please specify left or right when ordering individually.**

Order No.	Fits Stirrup Size	Upright Material	Dimensions
X3245-A	A	Plain Aluminum	3/16" x 5/8" x 17-1/8"
AX3245-A	A	Anodized Aluminum	3/16" x 5/8" x 17-1/8"



# DORSIFLEXION PLUS SPLIT STIRRUPS



**MODEL X3260**  
Split stirrup  
upright only

Order No.	Size	Upright Dimensions
X3260-A	A	1/8" x 7/8"

## MODEL X3262

Split stirrup with one-piece ankle joint upright. Sold individually. **Please specify left or right**



Order No.	Size	Upright Dimensions
X3262-A	A	1/8" x 7/8"

## MODEL X3264

Split stirrup uprights with caliper plate



Order No.	Size	Foot
X3264-AL	A	Left
X3264-AR	A	Right
X3264-AP	A	Pair

## MODEL X3264-X

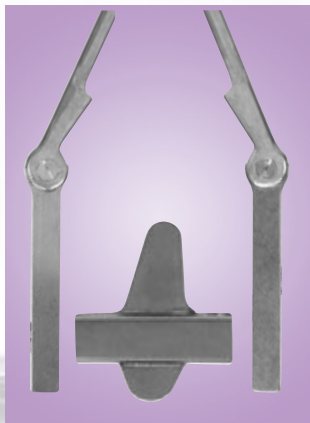
Split stirrup uprights with wide flange caliper plate



Order No.	Size	Foot
X3264-XAL	A	Left
X3264-XAR	A	Right
X3264-XAP	A	Pair

## MODEL X3266

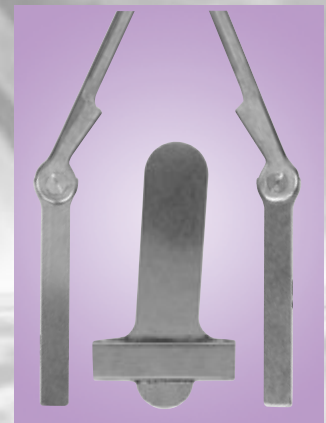
Split stirrups with one-piece ankle joint uprights and caliper plate



Order No.	Size	Foot
X3266-AL	A	Left
X3266-AR	A	Right
X3266-AP	A	Pair

## MODEL X3266-X

Split stirrups with one-piece ankle joint uprights and wide flange caliper plate



Order No.	Size	Foot
X3266-XAL	A	Left
X3266-XAR	A	Right
X3266-XAP	A	Pair



**SECTION V**

**ANKLE COMPONENTS**

**Double Action**

**Standard Action**

**Dorsiflexion Assist**

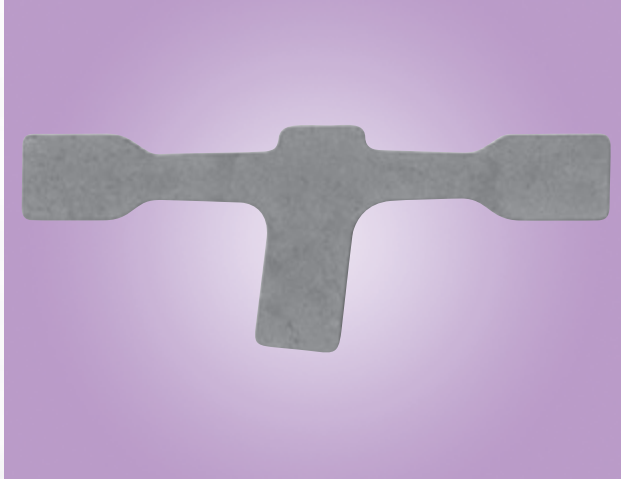
**Miscellaneous Stirrup  
Components**

**Thermoplastic Ankle Joints  
for Plastic AFO/KAFO**



# STIRRUP BLANKS

Becker stirrups are made from 304-2B stainless steel with 1/4 hard temper. The stirrup blanks listed in the chart below are the starting point in our manufacturing process. The orthotist can readily see we have the capability to manufacture odd-size stirrups upon request.



Order No.	Flange	Thickness	Maximum Length
2800-ABL	4.5"	1/8"	11"
2800-ABL-L	4.5"	1/8"	19"
2800-XBL	6"	1/8"	11"
2800-XBL-L	6"	1/8"	19"
2800-SXBL	7"	1/8"	11"
2800-SXBL-L	7"	1/8"	19"
2900-ABL	3-1/2"	1/8"	11"
2900-ABL-L	3-1/2"	1/8"	19"

## MODEL 3400 SPLIT STIRRUP CALIPER PLATE ONLY



Order No.	Foot
3400-AL	Left
3400-AR	Right
3400-AP	Pair

### MODEL 3400-A

- Made from .090" stainless steel
- 1/8" x 7/8" channel dimension
- 3-1/4" wide
- 4" tongue

Order No.	Foot
3400-BL	Left
3400-BR	Right
3400-BP	Pair

### MODEL 3400-B

- Made from .090" stainless steel
- 1/8" x 3/4" channel dimension
- 2-7/8" wide
- 3-1/8" tongue

Order No.	Foot
3400-CL	Left
3400-CR	Right
3400-CP	Pair

### MODEL 3400-C

- Made from .075" stainless steel
- 3/32" x 11/16" channel dimension
- 2-3/8" wide
- 2-1/2" tongue

## MODEL 3400-X WIDE FLANGE SPLIT STIRRUP CALIPER PLATE ONLY

Recommended for increased stability.

### MODEL 3400-XA

- Made from .090" stainless steel
- 1/8" x 7/8" channel dimension
- 3-3/4" wide
- 6-7/8" tongue

Order No.	Foot
3400-XAL	Left
3400-XAR	Right
3400-XAP	Pair

### MODEL 3400-XB

- Made from .090" stainless steel
- 1/8" x 3/4" channel dimension
- 3-3/8" wide
- 6-7/8" tongue

Order No.	Foot
3400-XBL	Left
3400-XBR	Right
3400-XBP	Pair



## MODEL 3500 FREE MOTION CALIPER PLATES AND ATTACHMENTS

All plates and tubing are stainless steel. Upright attachments are made of polished cold rolled steel.

Order No.	Size	Foot	Tube I.D.	Width	Tongue Length
3500-AL	A	Left	5/16"	3-1/4"	3-1/2"
3500-AR	A	Right	5/16"	3-1/4"	3-1/2"
3500-AP	A	Pair	5/16"	3-1/4"	3-1/2"
3500-BL	B	Left	1/4"	2-3/4"	2-3/4"
3500-BR	B	Right	1/4"	2-3/4"	2-3/4"
3500-BP	B	Pair	1/4"	2-3/4"	2-3/4"

NOTE: Special lengths available upon request.



### MODEL 3515 CALIPER PIN ONLY

Order No.	Pin Diameter
3515-A	5/16"
3515-B	1/4"



### MODEL 3525 UPRIGHT ATTACHMENT WITH CALIPER PIN

Order No.	Pin Diameter	Upright Recess
3525-A	5/16"	5/8"
3525-B	1/4"	1/2"



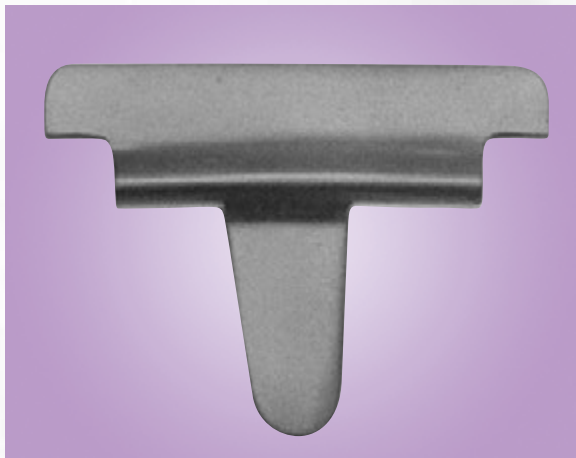
### MODEL 3550 CALIPER PLATE WITH UPRIGHT ATTACHMENTS

Order No.	Foot	Pin Diameter
3550-AL	Left	5/16"
3550-AR	Right	5/16"
3550-AP	Pair	5/16"
3550-BL	Left	1/4"
3550-BR	Right	1/4"
3550-BP	Pair	1/4"



# MODEL 3600 90° POSTERIOR STOP CALIPER PLATES AND UPRIGHT ATTACHMENTS

Model 3600 allows a full range of dorsiflexion, while blocking plantarflexion. Plates and tubing are made of stainless steel; upright attachments are made of polished cold rolled steel.



## MODEL 3600 CALIPER PLATE ONLY

May be used for the left or right foot.

Order No.	Tubing I.D.	Width	Tongue Length
3600-A	5/16"	3-1/4"	3-3/16"
3600-B	1/4"	2-3/4"	2-1/2"

**NOTE:** Special lengths available upon request.



## MODEL 3625 UPRIGHT ATTACHMENT WITH CALIPER PIN

Sold individually.

Order No.	Pin Diameter	Upright Recess
3625-A	5/16"	5/8"
3625-B	1/4"	1/2"



## MODEL 3650 CALIPER PLATE WITH UPRIGHT ATTACHMENTS

May be used for the left or right foot.  
Sold individually.

Order No.	Pin Diameter
3650-A	5/16"
3650-B	1/4"

# MODEL 3700 PHELPS CALIPER PLATES AND UPRIGHTS

The backstop on model 3700 allows full range of dorsiflexion and blocks plantarflexion. Left and right designation assumes lateral upright placement. All components are made of stainless steel.

## MODEL 3700 PHELPS CALIPER PLATE ONLY

Order No.	Foot	Tube I.D.
3700-AL	Left	5/16"
3700-AR	Right	5/16"
3700-AP	Pair	5/16"
3700-BL	Left	1/4"
3700-BR	Right	1/4"
3700-BP	Pair	1/4"



## MODEL 3700-S PHELPS CALIPER PLATE WITH DOUBLE BACKSTOP

Please specify M-L dimension of shoe when ordering.

Order No.	Pin Diameter
3700-SA	5/16"
3700-SB	1/4"



## MODEL 3750 PHELPS CALIPER PLATE WITH ROUND UPRIGHT



Order No.	Foot	Upright Diameter
3750-AL	Left	5/16"
3750-AR	Right	5/16"
3750-AP	Pair	5/16"
3750-BL	Left	1/4"
3750-BR	Right	1/4"
3750-BP	Pair	1/4"

Order No.	Upright Diameter
3725-A	5/16"
3725-B	1/4"

## MODEL 3725 PHELPS ROUND UPRIGHT ONLY



## MODEL 3850 SINGLE UPRIGHT FREE MOTION STIRRUP WITH STANDARD ACTION ANKLE JOINT UNIT

Ideal for pediatric single upright AFOs and KAFOs. Stirrup may also be ordered separately (model 3800).

Order No.	Accepts Bar Width
3850-B	5/8"
3850-C	1/2"



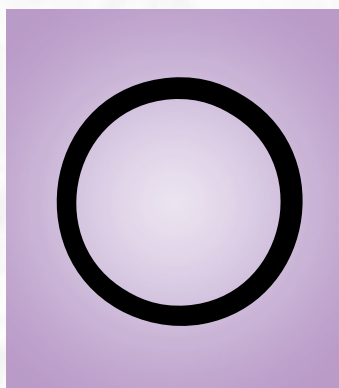
NOTE: Please specify left or right when ordering.

## MODEL SC-30 STIRRUP STRUT

Model SC-30 was developed for use in paraplegia orthoses. The device can be shaped and welded to any of our stirrups to provide increased strength and stability.



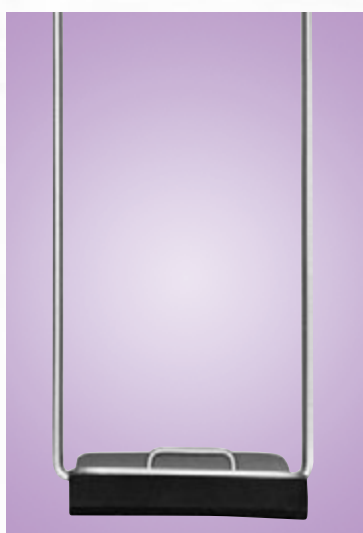
Order No.	Description
SC-30	Stirrup Strut



## MODEL 3870 BUSHING ADAPTER RING

Occasionally the need arises to put a "C" size ankle joint on an "A" or "B" size stirrup. Insertion of the Bushing Adapter Ring into the bushing holes of the stirrup reduces the hole diameter to 5/16", which is compatible with our "C" size joints. **NOTE: You must order our "C8" joints, which have a 1/8" slot, when using this system.**

Order No.	Description
3870	Bushing Adapter Ring



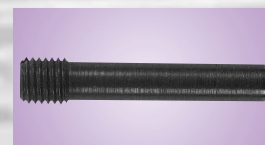
## MODEL 3880 PATTEN-BOTTOM

Our Patten-Bottom uprights are made of 3/16" x 3/4" stainless steel. The footplate is covered with crepe. Available in M-L dimensions of 3", 3.5", 4", 4.5" and 5".

Order No.	Description
3880	Patten-Bottom

### MISCELLANEOUS ANKLE JOINT COMPONENTS

Order No.	Description	Thread Diameter	Compatible with
I-SCREWPIN#18	Ankle Joint Screw-Pin	5/16"-18	SL2845-A, and X3245-A
I-SCREWPIN#24	Ankle Joint Screw-Pin	5/16"-24	SLI/SLO-2825-A, and 2825-A



**SECTION V**

**ANKLE COMPONENTS**

**Double Action**

**Standard Action**

**Dorsiflexion Assist**

**Miscellaneous Stirrup  
Components**

**Thermoplastic Ankle Joints  
for Plastic AFO/KAFO**



## TAMARACK FABRICATION TOOLS



### MODEL T-740-1 HAND MOLDING TOOL

This specialty hand tool has been designed to compliment the Tamarack Flexure Joint™ system. The Hand Molding Tool allows you to quickly and easily retrofit a solid-ankle AFO with 740 or 742 series Tamarack Flexure Joints™. This tool forms a flexure joint cavity after spot-heating the desired location.

Order No.	Size	Description
T-740-1L	Large	Hand Molding Tool for Flexure Joints
T-740-1M	Medium	Hand Molding Tool for Flexure Joints
T-740-1P	Pediatric	Hand Molding Tool for Flexure Joints



### MODEL T-740-2 HAND PUNCH

The Tamarack Hand Punch quickly and easily produces precisely located holes for installing Tamarack Flexure Joint™ hardware. The configuration of the “nose” guides the punch to the correct location for a perfectly positioned hole. The Hand Punch may also be used for general hole punching needs. It is available in Large, Medium and Pediatric sizes to match the three Tamarack Flexure Joint™ sizes.

Order No.	Size	Description
T-740-2L	Large	Hand Punch for Flexure Joints
T-740-2M	Medium	Hand Punch for Flexure Joints
T-740-2P	Pediatric	Hand Punch for Flexure Joints



### MODEL T-740-3 SPANNER WRENCH TOOL

The Spanner Wrench Tool has a spring loaded retractable center pin, which helps hold and align the flange nut for easier installation of the dorsiflexion assist joints. The spanner pins match up with four notches in the flange nut. This also makes for easier removal of the joints in the presence of a cured thread locking compound on either 740 or 742 style joints.

Order No.	Size	Description
T-740-3LM	Large/Medium	Spanner Wrench for Flexure Joints
T-740-3P	Pediatric	Spanner Wrench for Flexure Joints



### MODEL 740-3 HEX TOOLS

Hex tools are used for installing Tamarack Flexure Joints™. Hex keys and drivers may be purchased by ordering the model numbers listed below.

Order No.	Description	Diameter
740-3-LM	Hex Key for Large & Medium Flexure Joints	2.5mm
740-3-P	Hex Key for Pediatric Flexure Joints	2mm
740-4-LM	Hex Driver for Large & Medium Flexure Joints	2.5mm
740-4-P	Hex Driver for Pediatric Flexure Joints	2mm



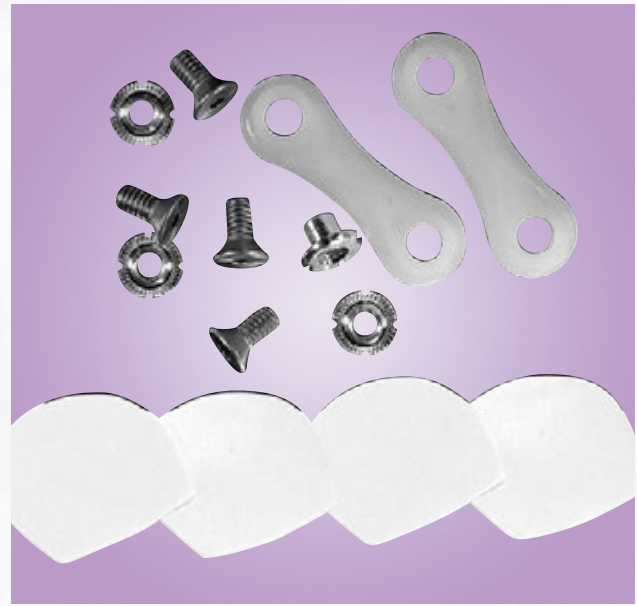
## MODEL 740 TAMARACK FLEXURE JOINT™

Tamarack Joints self co-align the medial and lateral joint axes. The unique high strength inner filament core prevents elongation and ensures precise hinging action. Available in three sizes, Tamarack Flexure Joints™ provide strength, durability, and ease of fabrication for thermoplastic orthoses.

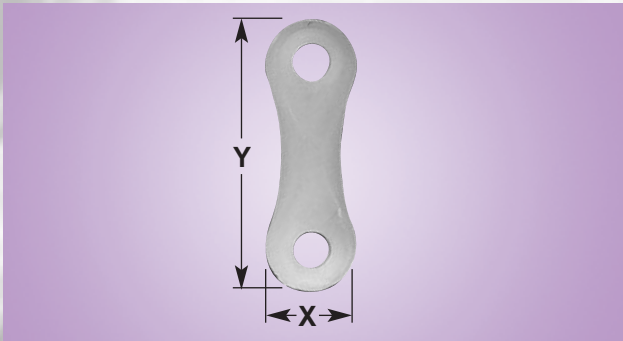
US Patent 5,826,304

Design Patent D385,358

European Patent 0712468



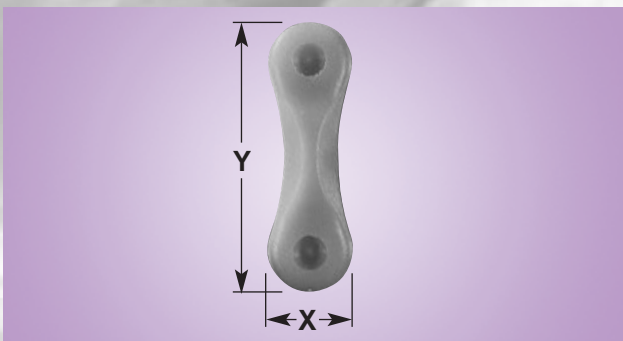
To order parts, please refer to page 5.5.4.



Order No.	Size	Description	Dimensions			
			X		Y	
740-L	Large	Tamarack Flexure Joint™	.59"	15mm	1.77"	45mm
740-M	Medium	Tamarack Flexure Joint™	.51"	13mm	1.51"	38mm
740-P	Pediatric	Tamarack Flexure Joint™	.41"	11mm	1.25"	32mm

## MODEL 741 TAMARACK MOLDING DUMMIES

Tamarack Molding Dummies are reusable five to ten times. They are strongly recommended to create a snug, recessed cavity for the Tamarack Flexure Joints™ or Tamarack Dorsiflexion Assist Flexure Joints™.



Order No.	Size	Description	Dimensions			
			X		Y	
741-L	Large	Tamarack Molding Dummies	.59"	15mm	1.85"	47mm
741-M	Medium	Tamarack Molding Dummies	.51"	13mm	1.58"	40mm
741-P	Pediatric	Tamarack Molding Dummies	.41"	11mm	1.31"	33mm

# MODEL 742 TAMARACK DORSIFLEXION ASSIST FLEXURE JOINT™



The biased design provides motion assist power similar to traditional metal dorsi-assist ankle joints. Model 742 is delivered with 75 or 85 durometer polyurethane in three sizes. The 85 durometer models provide more assistance force than the 75 durometer models. They may be utilized in matched or unmatched durometer configurations, or even matched with free motion Tamarack Flexure Joints™ to provide the amount of motion assistance required for your patient.

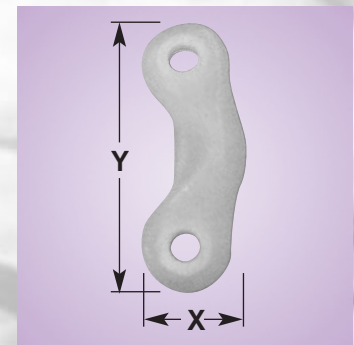
**US Patent 5,826,304**

**Design Patent D385,358**

**European Patent 0712468**

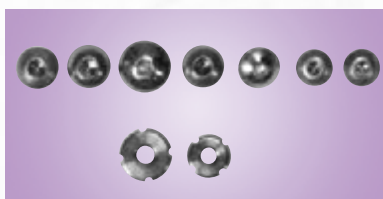
To order parts, please see below.

Order No.	Size	Description	Dimensions			
			X		Y	
742-L-75	Large	75 Durometer	.59"	15mm	1.77"	45mm
742-L-85	Large	85 Durometer	.59"	15mm	1.77"	45mm
742-M-75	Medium	75 Durometer	.51"	13mm	1.51"	38mm
742-M-85	Medium	85 Durometer	.51"	13mm	1.51"	38mm
742-P-75	Pediatric	75 Durometer	.41"	11mm	1.25"	32mm
742-P-85	Pediatric	85 Durometer	.41"	11mm	1.25"	32mm



**Note: Whenever appropriate, a Tamarack Variable Assist™ unit may be used in conjunction with a standard Dorsiflexion Assist, or Free Motion Flexure Joint. Please refer to page 5.5.5 for more information on the Tamarack Variable Assist™.**

## TAMARACK FLEXURE JOINT™ HARDWARE



To accommodate different thicknesses of plastic, Tamarack Habilitation Technologies, Inc., in collaboration with Becker Orthopedic offers metric screws in a variety of lengths. Please refer to the chart below for order numbers and details. All non standard metric screws and flange nuts are only available in quantities of 20, 50, and 100.

Order No.	Description	Length	Diameter
740-1LM-7	Shorter Screws for Large & Medium Joints	7mm	4mm
740-1LM-9	<b>Standard Screws for Large &amp; Medium Joints</b>	9mm	4mm
740-1LM-12	Longer Screws for Large & Medium Joints	12mm	4mm
740-1LM-14	Longer Screws for Large & Medium Joints	14mm	4mm
740-1P-7	<b>Standard Screws for Pediatric Joints</b>	7mm	3.5mm
740-1P-8	Longer Screws for Pediatric Joints	8mm	3.5mm
740-1P-10	Longer Screws for Pediatric Joints	10mm	3.5mm
740-1P-12	Longer Screws for Pediatric Joints	12mm	3.5mm
740-2LM	<b>Standard Flange Nut for Large &amp; Medium Joints</b>	6mm	5mm
740-2P	<b>Standard Flange Nut for Pediatric Joints</b>	5mm	4.5mm
740-1LM-9-TR	Optional Truss Head Screws for Large & Medium Joints	9mm	4mm
740-1P-7-TR	Optional Truss Head Screws for Pediatric Joints	7mm	3.5mm
749-740	Cosmetic Shearban® Patches for Tamarack Flexure Joints™	12 per package	

# MODEL 743 TAMARACK VARIABLE ASSIST™

The Tamarack Variable Assist™ allows the practitioner to adjust the assist moments of the 742-L and 742-P joints to any value from zero to nearly three times what is possible with standard installation. All Tamarack Variable Assist™ kits include joints, molding dummies, Shearban® cosmetic patches, stainless steel mounting hardware, a check strap, and hex key (see figure 2). **NOTE: Whenever appropriate, a Tamarack Variable Assist™ unit on one side of an orthosis (medial or lateral) may be matched with a standard dorsiflexion assist mounting or a free motion flexure. Variable Assist mounting hardware may be used at both ends of each motion assist flexure joint (742 series) to create a double wide range of motion adjustability. This may be useful for knee and elbow contracture applications (see figure 1).**



Allows easy adjustment of the assist moment.

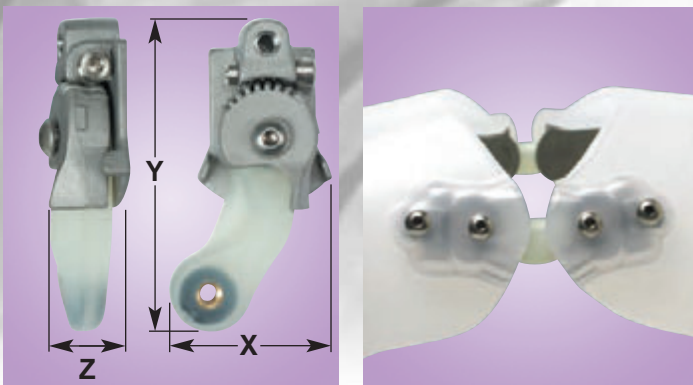


Figure 1



Figure 2

Order No.	Size	Description	Dimensions					
			X		Y		Z	
743-L	Large	Tamarack Variable Assist™ Kit	1"	25mm	2.4"	60mm	.45"	11mm
743-P	Pediatric	Tamarack Variable Assist™ Kit	.72"	18mm	1.7"	43mm	.34"	9mm

**NOTE: 743-L and 743-P kits are supplied with 85 durometer motion assist flexure joints.**

# MODEL 747 TAMARACK CLEVISPHERE™ ANKLE JOINT

Developed by Tamarack, model 747 is a free motion adjustable stop ankle joint that features a spherical hinge which can rotate about any axis within a 24° conical range (see figure 1). This feature provides for automatic co-alignment of the medial and lateral joint axes. All Tamarack Clevisphere™ kits include joints, molding dummies, mounting hardware, and Shearban® cosmetic patches (see figure 2).

*Patents pending in US, Canada, and Europe.*

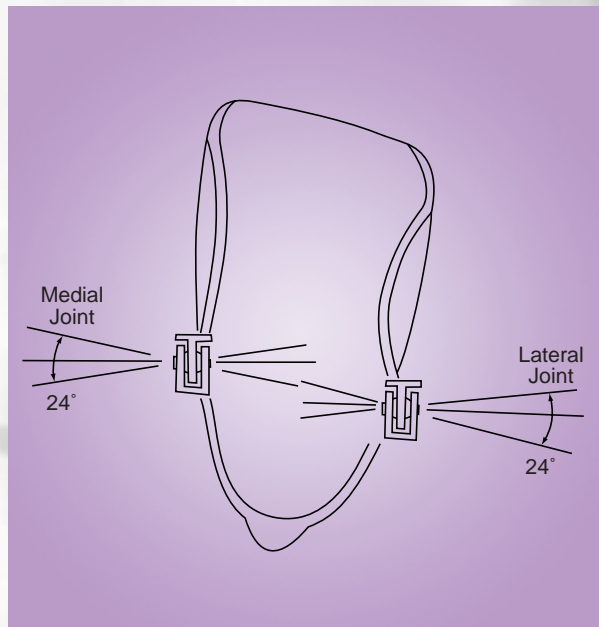
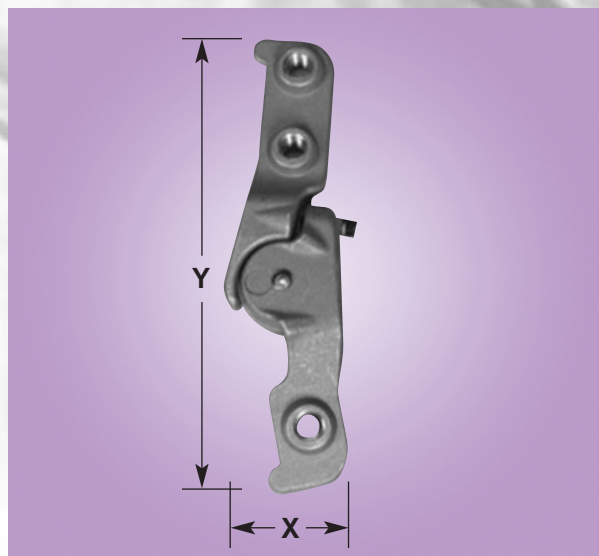


Figure 1



Features a continuously adjustable stop. Figure 2

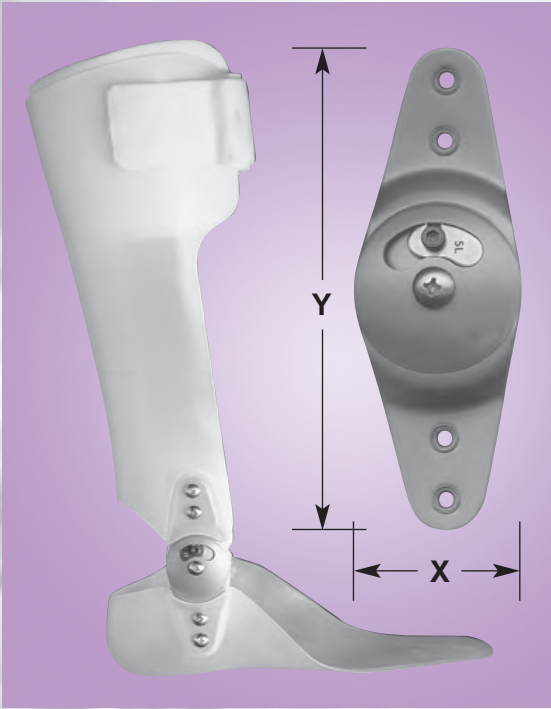


Order No.	Description	Dimensions			
		X		Y	
747-L	Large/Adult Clevisphere™ Ankle Joint Kit	.82"	21mm	3.2"	81mm

# MODEL 750 CAMBER AXIS HINGE®

The Camber Axis Hinge® was developed by David J. Hoy, CPO to provide an adjustable range-of-motion ankle joint with anatomical axis alignment that can be used in thermoplastic orthoses. Equipped with seven different color coded range-of-motion keys, the Camber Axis Hinge® eliminates the need for posterior stop mechanisms. This ankle joint permits solid ankle or variable anterior/posterior stop settings.

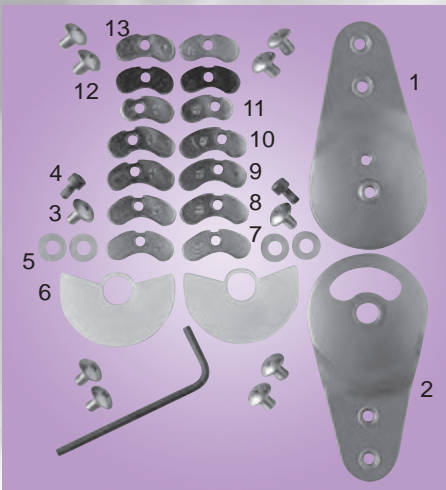
**US Patent 5,542,774**



- Manufactured of 410 stainless steel for strength and durability
- Component selection should be determined by the orthotist after considering individual patient weight, gait, and activity levels.
- Camber Axis Hinge® Information CD available for self-study and PCE credits. Please contact our customer service department for details.

Order No.	Size	Description	Dimensions			
			X		Y	
750-L	Large	Camber Axis Kit	1-9/16"	40mm	4-1/2"	114mm
750-M	Medium	Camber Axis Kit	1-1/2"	38mm	3-7/8"	98mm
750-S	Small	Camber Axis Kit	1-1/8"	29mm	3-3/16"	81mm

## REPLACEMENT COMPONENTS FOR CAMBER AXIS HINGE®



Order No.	Description
750-1	Camber Axis Proximal Joint specify size S, M or L
750-2	Camber Axis Distal Joint specify size S, M or L
750-3-L/M	8-32 Truss Head Attachment and Pivot Screw - LG/MD Camber Axis
750-3-S	6-32 Truss Head Attachment and Pivot Screw for Small Camber Axis
750-4	8-32 Socket Head Cap Screw for Stop for Camber Axis
750-5-L	Stainless Steel Washer for Large Camber Axis Pivot Screw
750-5-M	Stainless Steel Washer for Medium Camber Axis Pivot Screw
750-5-S	Stainless Steel Washer for Small Camber Axis Pivot Screw
750-6	Plastic Friction Washer for Camber Axis
750-7*	0° Silver Stop for Camber Axis
750-8*	5° Red Stop for Camber Axis
750-9*	10° Blue Stop for Camber Axis
750-10*	15° Purple Stop for Camber Axis
750-11*	0°-30° Green Stop for Camber Axis
750-12*	5°-10° Black Stop for Camber Axis
750-13*	7.5°-10° Yellow Stop for Camber Axis

\*Please specify left or right and small, medium or large.

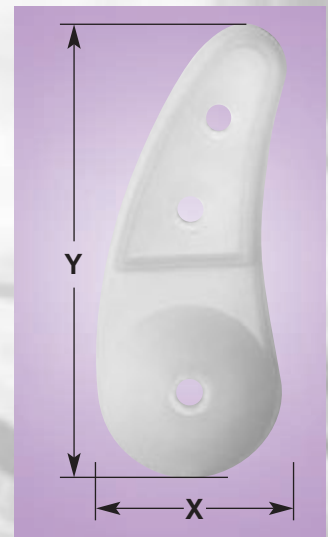
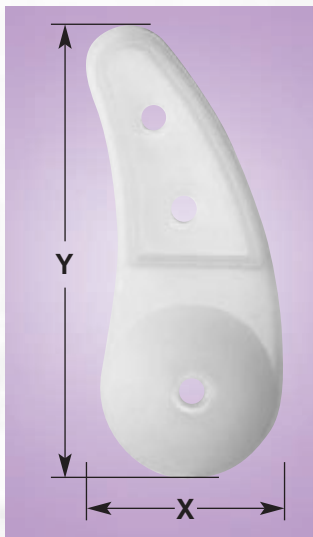
**Note:** Please see page 1.5.5 for information on the Camber Axis XAFO Kit.

# MODEL 760/765 OKLAHOMA ANKLE JOINT

Developed at the University of Oklahoma in cooperation with Becker Orthopedic, this joint provides a cost effective method for creating a free motion AFO. When utilized with one of our posterior stops (see page 5.5.12) range-of-motion control is added to the AFO. Model 760 is constructed of polypropylene and model 765 is constructed of nylon for heavy duty use. Pelite pads are included.

## MODEL 760 POLYPROPYLENE OKLAHOMA ANKLE JOINT KIT

## MODEL 765 HEAVY-DUTY NYLON OKLAHOMA ANKLE JOINT KIT

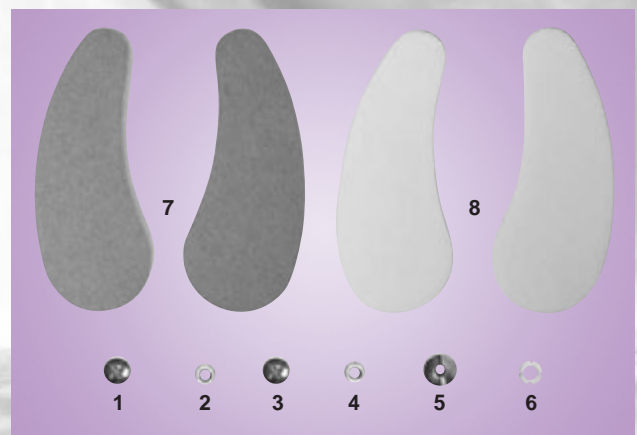


Order No.	Size	Dimensions			
		X		Y	
760-XL	X-Large	1-3/4"	44mm	4"	102mm
760-L	Large	1-1/2"	38mm	3-3/4"	95mm
760-M	Medium	1-1/4"	32mm	3-1/4"	83mm
760-S	Small	1"	25mm	2-5/8"	67mm
760-P	Pediatric	15/16"	24mm	2"	51mm

Order No.	Size	Dimensions			
		X		Y	
765-XL	X-Large	1-3/4"	44mm	4"	102mm
765-L	Large	1-1/2"	38mm	3-3/4"	95mm
765-M	Medium	1-1/4"	32mm	3-1/4"	83mm
765-S	Small	1"	25mm	2-5/8"	67mm
765-P	Pediatric	15/16"	24mm	2"	51mm

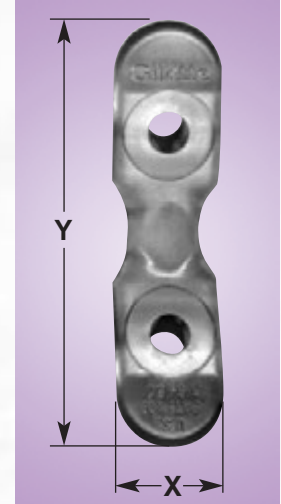
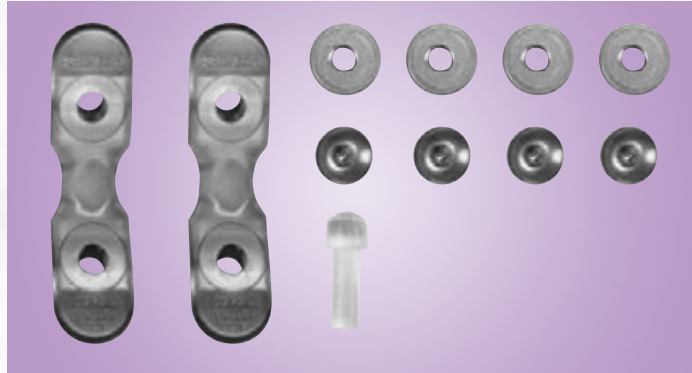
## REPLACEMENT COMPONENTS FOR OKLAHOMA JOINT KITS

Order No.	Description
761-1	Attachment screw for P & S
761-2	Threaded brass insert for P & S
761-3	Attachment screw for M, L, & XL
761-4	Threaded brass insert for M, L, & XL
761-5	Pivot bushing & screw - all sizes
761-6	Nylon bushing - all sizes
761-7	Brown Self Adhesive Pad - Add P, S, M, L or XL, e.g. 761-7L
761-8	Pelite Pad - Add P, S, M, L or XL, e.g. 761-8L



# MODEL 775 GILLETTE DOUBLE FLEXURE ANKLE JOINT

Developed at Gillette Children's Hospital, this system provides a full range of options for thermoplastic orthoses. Gillette Double Flexure ankle joints are available in four different sizes - infant, pediatric, child and adult. These joints are designed for applications that require maximum functional stretch. Delivered complete with a molded urethane posterior-stop and fabricating instructions.

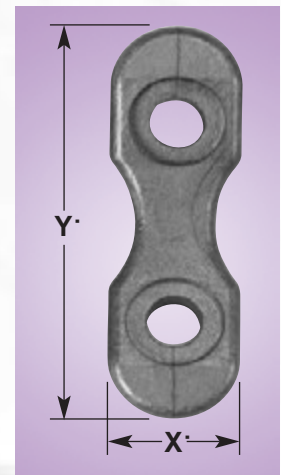


**Note:** To order Gillette hardware, please refer to page 5.5.10.

Order No.	Description	Dimensions			
		X		Y	
775-A	Gillette Adult Double Flexure Joint	9/16"	14mm	2-3/16"	56mm
775-C	Gillette Child Double Flexure Joint	7/16"	11mm	1-15/16"	49mm
775-P	Gillette Pediatric Double Flexure Joint	3/8"	10mm	1-3/8"	35mm
775-I	Gillette Infant Double Flexure Joint	3/8"	10mm	1-1/8"	29mm

# MODEL 775-HD HEAVY-DUTY GILLETTE DOUBLE FLEXURE ANKLE JOINT

Model 775 Heavy-Duty Gillette Double Flexure ankle joints are available in four different sizes - infant, pediatric, child and adult. This joint is fiberglass reinforced for applications that require a moderate amount of functional stretch. Delivered complete with a molded urethane posterior-stop and fabricating instructions.



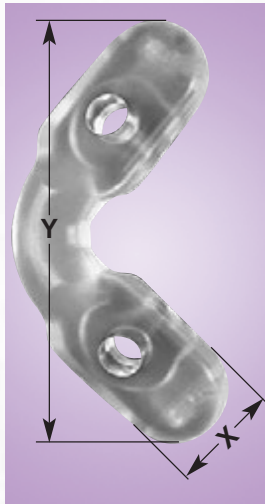
**Note:** To order Gillette hardware, please refer to page 5.5.10.

Order No.	Description	Dimensions			
		X		Y	
775-HD-A	HD Gillette Adult Double Flexure Joint	9/16"	14mm	2-3/16"	56mm
775-HD-C	HD Gillette Child Double Flexure Joint	7/16"	11mm	1-15/16"	49mm
775-HD-P	HD Gillette Pediatric Double Flexure Joint	3/8"	10mm	1-3/8"	35mm
775-HD-I	HD Gillette Infant Double Flexure Joint	3/8"	10mm	1-1/8"	29mm

# MODEL 776

## GILLETTE DORSIFLEXION ASSIST ANKLE JOINTS

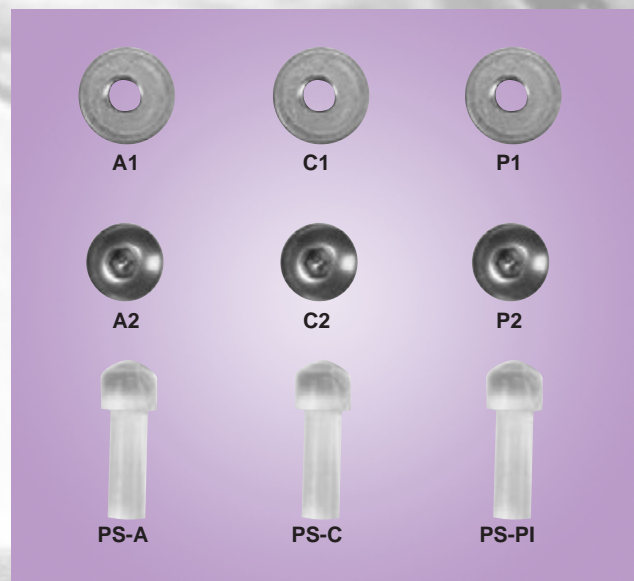
The Gillette Dorsiflexion Assist ankle joints are available in two sizes with a choice of three assistive durometers. The silver version provides approximately 1 lb. of assist while clear and gold deliver 2 and 3 lbs. respectively. Delivered in kit form with fabricating instructions, the joints may be utilized in matched sets or interchanged to achieve the proper dorsiflexion assist for your patient.



Order No.	Description	Dimensions			
		X		Y	
776-AC	Gillette Adult Dorsiflexion Assist Clear	9/16"	14mm	2-1/16"	52mm
776-AG	Gillette Adult Dorsiflexion Assist Gold	9/16"	14mm	2-1/16"	52mm
776-AS	Gillette Adult Dorsiflexion Assist Silver	9/16"	14mm	2-1/16"	52mm
776-CC	Gillette Child Dorsiflexion Assist Clear	7/16"	11mm	1-3/4"	44mm
776-CG	Gillette Child Dorsiflexion Assist Gold	7/16"	11mm	1-3/4"	44mm
776-CS	Gillette Child Dorsiflexion Assist Silver	7/16"	11mm	1-3/4"	44mm

## GILLETTE ANKLE JOINT HARDWARE

Order No.	Description
775-A1	Adult Gillette Bushing
775-A2	Adult Gillette Screw
775-C1	Child Gillette Bushing
775-C2	Child Gillette Screw
775-P1	Pediatric/Infant Gillette Bushing
775-P2	Pediatric/Infant Gillette Screw
775-PS-A	Adult Gillette Posterior Stop
775-PS-C	Child Gillette Posterior Stop
775-PS-PI	Pediatric/Infant Gillette Posterior Stop



**NOTE:** Gillette Posterior Stops are not returnable for credit and may only be purchased in quantities of 50 or more.



# MODELS 780 & 781 SCOTTY FREE MOTION ANKLE JOINTS

Model 780 is the Scotty free motion stainless steel ankle joint. The Scotty Econoline, model 781, is a stainless steel free motion ankle joint which has been priced for managed care.

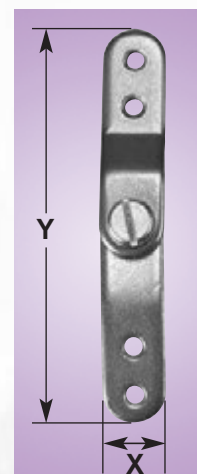
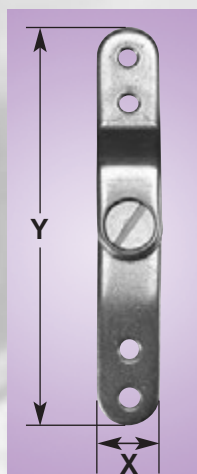
## 780 & 781 KITS INCLUDE:

- Mounting hardware • Threaded alignment rod • Polyurethane stop

### MODEL 780



### MODEL 781



Note: To order parts, please specify the order number followed by the part number desired.

Order No.	Description	Dimensions			
		X		Y	
780-L	Large Scotty Ankle Joint Kit	1/2"	13mm	3"	76mm
780-S	Small Scotty Ankle Joint Kit	1/2"	13mm	2-1/2"	64mm

Order No.	Description	Dimensions			
		X		Y	
781-L	Large Scotty Econoline Kit	1/2"	13mm	3"	76mm
781-S	Small Scotty Econoline Kit	1/2"	13mm	2-1/2"	64mm

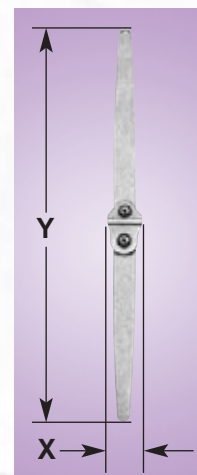
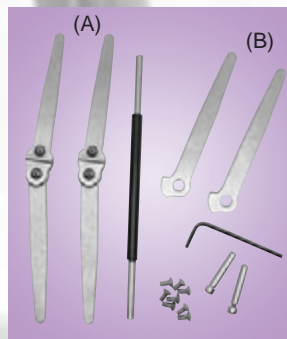
## MODEL 790 KID-DEE-LITE™

Manufactured by Camp Scandinavia AB, the KID-DEE-LITE™ provides the orthotist with a unique option for treating the pediatric population. The durable stainless steel joint allows easy dorsiflexion and plantar flexion adjustments of 40°, in a size that matches the very smallest patient.



### KIT INCLUDES:

- Straight (A) and curved (B) uprights to accommodate corrections above the malleoli
- Hardware for attachment to orthosis
- Alignment tool
- Fabrication instructions



Order No.	Description	Dimensions			
		X		Y	
790	KID-DEE-LITE™ Ankle Joint Kit	5/8"	16mm	6-1/2"	165mm

Note: KID-DEE-LITE™ has been designed for pediatric patients under 55 lbs.

## MODEL 655 MOTION CONTROL LIMITER

The 655-MCL is a plantar/dorsiflexion range of motion device providing four dorsiflexion stop positions with an infinitely adjustable plantar flexion stop. It is available in three sizes. Kits come complete with fabrication instructions.

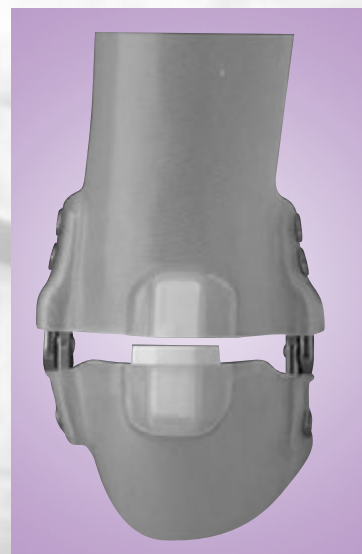
Order No.	Description
655-MCL-XL	Motion Control Limiter- X-Large
655-MCL-L	Motion Control Limiter - Large
655-MCL-S	Motion Control Limiter - Small
AV-655-303	Stainless Steel Limiter Slide only - X-Large
AV-655-103	Stainless Steel Limiter Slide only - Large
AV-655-203	Stainless Steel Limiter Slide only - Small
AV-655-304	Disposable Insert - X-Large
AV-655-104	Disposable Insert - Large
AV-655-204	Disposable Insert - Small



## MODEL 755 MOTION CONTROL LIMITER

The 755-MCL is an adjustable plantar flexion range of motion limiter that can be transformed to a solid ankle AFO. Varying degrees of plantar flexion are obtained by grinding the stop. Kit comes complete with fabrication instructions.

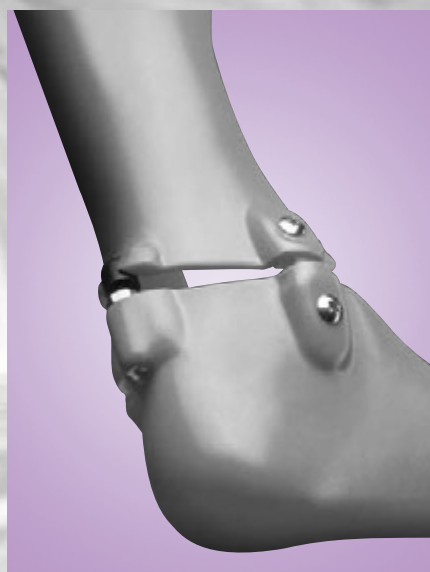
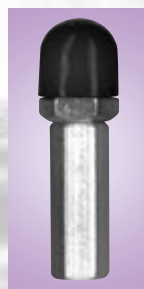
Order No.	Description
755-MCL	Complete 755 Motion Control Limiter Kit
AV-755-001	Molded Urethane Bumper only
AV-755-002	Disposable Channel Plug only
AV-755-003	Solid Ankle Bracket - Stainless Steel
AV-755-004	Brass Wood Screw - 5/8"



## MODEL 795 MOTION LIMITER

Manufactured in stainless steel and durable urethane, this motion limiter provides a variable plantar flexion stop that provides some dampening. Easy to fabricate into any thermoplastic orthosis. Kit comes complete with fabrication instructions.

Order No.	Description
795	Complete 795 Motion Control Limiter Kit
795-B	Bumper and Screw only
795-BL	Bumper and Screw w/ 2 Lock Nuts
795-C	Aluminum Cylinder only



## MODEL 950 FOOT CONTROL PLATE



Developed by Tom DiBello, CO, for controlling AB/AD of the foot in children. Made of anodized lightweight aluminum.

Order No.	Description
950	Complete Foot Control Kit



## MODEL 980 QUICK DISCONNECT™



Developed in collaboration with Tom DiBello, CO, the Quick Disconnect™ allows the orthotist to make any section of the brace detachable. For example, the Quick Disconnect™ can be used at the KAFO/AFO interface when the patient needs to wear only the AFO section at night. It is available in regular nylon or heavy duty aluminum.

**US Patent 6,129,689**

Order No.	Description
980	Nylon Quick Disconnect™
980-HD	Aluminum Heavy Duty Quick Disconnect™



980



980-HD