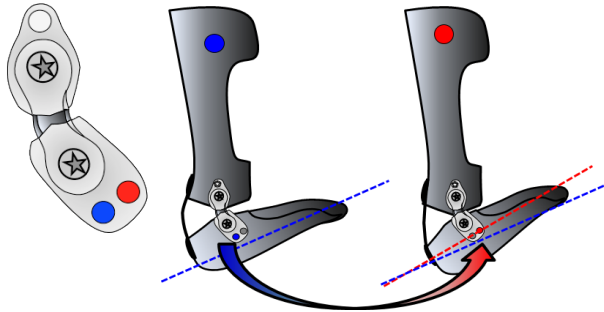


## 12. Adjustable Assist Tamarack Flexure Joint Caps Procedures for Increasing Dorsiflexion Assist Range of Motion - Model 741-CAP-ADJ

- Featuring an additional anterior attachment point, the Adjustable Assist Tamarack Flexure Joint Caps provide up to 20% more dorsiflexion assist per side than traditional installations.
- For Standard Installation, secure adjustable assist cap in **posterior** position using supplied hardware
- When increased dorsiflexion assist is desired, secure adjustable assist cap in **anterior** position using supplied hardware
- Adjustable Assist cap may be mounted on either the footplate (recommended) or calf (optional) section of the finished device.

Adjustable Assist Tamarack® Flexure Joint Cap mounting options, where **blue** indicates standard position and **red** indicates increased dorsiflexion assistance



## Recommended Fabrication Tools (sold separately)

### Tamarack® Hex Driver

- Useful for installing adjustment screws on Tamarack Flexure Joints®.
- Available in 2mm. (pediatric) and 2.5mm. (medium/large) sizes

Part # T-740-4



### Tamarack® Spanner Wrench

- Useful tool to help align the flange nut for easier installation of dorsiflexion assist joints.
- Useful to aid disassembly of joints previously installed with thread locking compound.

Part # T-740-3 (choose large, medium or pediatric size)



- 2 - Tamarack® Flexure Joint Caps number 1
- 2 - Tamarack® Flexure Joint Caps number 2
- 4 - ShearBar® flange nut cover patches
- 4 - Screws: M4 x 10mm (large & medium size) or M3.5 x 10mm (pediatric size)
- 4 - Screws: M4 x 6mm (large & medium size) or M3.5 x 5mm (pediatric size)
- 4 - Brass flange nuts, short barrel
- 4 - Black flange nuts, long barrel
- 2 - Drill Guides

### PACKAGE CONTENTS

A uniquely designed external mounting option for Tamarack Flexure Joints. Ideal for both thermoplastic and carbon fiber applications

## Tamarack Flexure Joint® Caps



## How to purchase Tamarack® products:

### Contact Becker Orthopedic

(800) 521-2192 toll free  
(248) 588-7480

For a list of distributors worldwide, visit:

**BeckerOrthopedic.com**



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## Tamarack Flexure Joint® Caps

- |                                     |                                     |
|-------------------------------------|-------------------------------------|
| <input type="checkbox"/> 741-CAP-LN | <input type="checkbox"/> 741-CAP-LB |
| <input type="checkbox"/> 741-CAP-MN | <input type="checkbox"/> 741-CAP-MB |
| <input type="checkbox"/> 741-CAP-PN | <input type="checkbox"/> 741-CAP-PB |

### STANDARD MODEL

**www.tamarackhti.com**

Manufactured in the U.S.A.

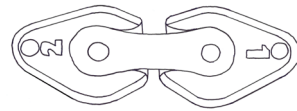
## Tamarack Flexure Joint Caps Fabrication Procedures - For standard and adjustable assist models

See Back Side for Adjustable Assist Model Information

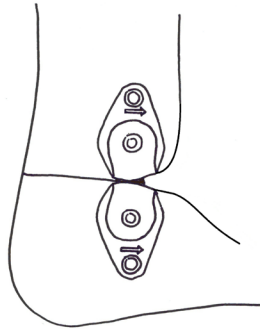
### STANDARD MODEL #741-CAP SHOWN

1. Tamarack Flexure Joint Caps are identified on the inside with either a **1** or a **2** (**Fig. A**). Tamarack Flexure Joints must be installed with one of each, (**1** and **2**) cap.
2. Flexure Joint Caps feature a directional arrow, which must point towards the anterior of the orthosis in standard applications (**Fig. B**).
3. The Flexure Joint Caps require 4 anchoring holes on each side of the orthosis. Use the included Drill Guide to locate these holes and help locate trim lines.
4. Position the Drill Guide so that the midpoint is located on the desired axis of joint motion and the trim line rays are correctly positioned (**Fig. C**). Mark each anchoring hole location, the midpoint and required trim lines.
5. Drill pilot holes using a 3/32" (2.5mm) drill bit to accurately locate the anchoring holes for each cap. Then drill final anchoring holes using the drill bit size indicated on the included Drill Guide. (**Fig. D**).
6. Using a thin-bladed saw, separate the orthosis into two sections. (**Fig. E**).

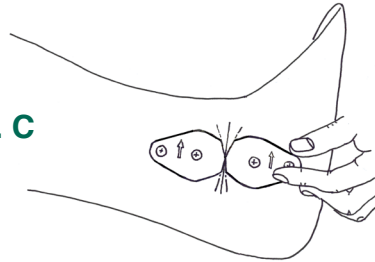
**Fig. A**



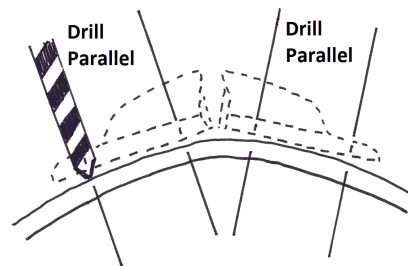
**Fig. B**



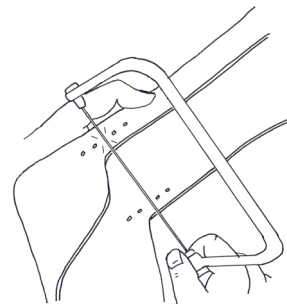
**Fig. C**



**Fig. D**

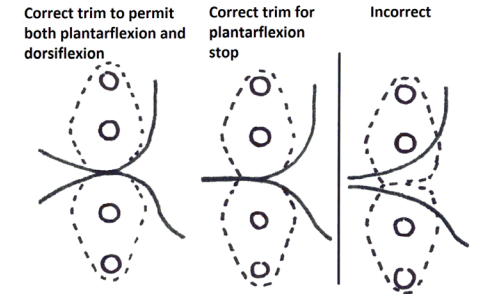


**Fig. E**

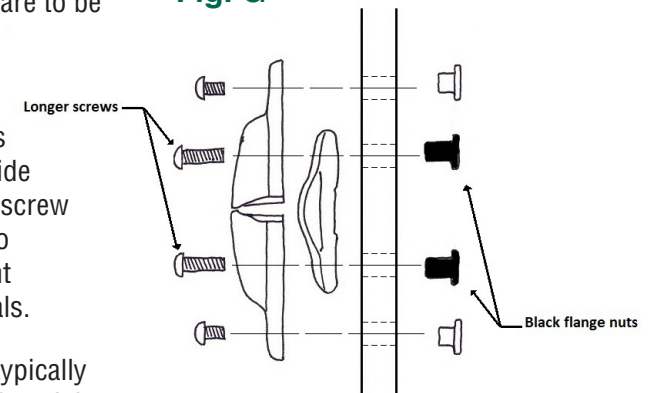


7. Using your previous trim line marks as a guide, remove material anterior or posterior of the anchoring holes to allow for the desired range of motion. Leave the narrowest possible trim line gap to provide sufficient material for properly mounting the Flexure Joint Caps (**Fig. F**).
8. The longer stainless steel anchoring screws and black flange nuts should be used to secure the thicker part of each assembly. The brass flange nuts are to be used with the shorter stainless steel anchoring screws (**Fig. G**). These screws must not protrude inside the orthosis; different screw lengths are available to accommodate different thicknesses of materials.
9. The flange nut heads typically protrude into the interior of the orthosis by 1/16 of an inch (1.6 mm). Recess if needed by counter-boring or heat-sinking.
10. Use a removable thread locking compound (Loctite® Threadlocker Blue 242® or equivalent) on all anchoring screws.
11. ShearBan® flange nut cover patches may be placed over the flange nuts. Each patch should cover two flange nuts (**Fig. H**).

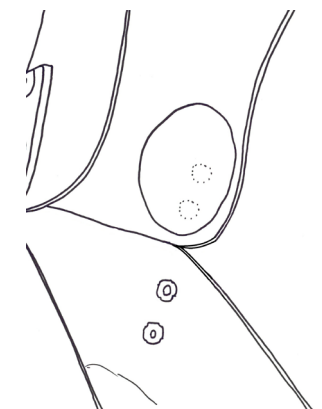
**Fig. F**



**Fig. G**



**Fig. H**



(continued on back)