Tamarack® HABILITATION TECHNOLOGIES, INC.

Tamarack Flexure Joint Veterinary Free Motion Model

(65 durometer)

www.tamarackhti.com

Questions or Comments?

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How to Purchase:

Contact Becker Orthopedic
(800) 521-2192 toll-free
(248) 588-7480

For a list of distributors worldwide:
www.beckerorthopedic.com

⚠ **WARNING:** This product can expose you to chemicals including lead, which are known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

REV 12/22

Other Tamarack® Products for Veterinary Orthotics & Prosthetics

Tamarack Flexure Joint® Free Motion Model 740

85 durometer hardness (as compared to 65 durometer VET-65 joints)

Available in Large, Medium and Pediatric (small) sizes

Choose from Natural or Black color

Tamarack Flexure Joint® Caps Model 741-CAP

External mounting option for securing Tamarack Flexure Joints to an orthosis or prosthesis without requiring vacuum-forming or laminating joint cavities

Available in Large, Medium and Pediatric (small) sizes

Choose from Natural or Black color

ShearBan® Self-Adhesive PTFE Sheets & Patches Model 749

Designed to eliminate rubbing and skin breakdown that causes fur/hair loss and skin damage

Available in 8 x 12 inch sheets and two sizes of pre-cut rivet cover patches

Choose from Black, Blue or White color

Tamarack®
HABILITATION TECHNOLOGIES, INC.

Veterinary Tamarack Flexure Joint®

Fabrication/Installation Instructions

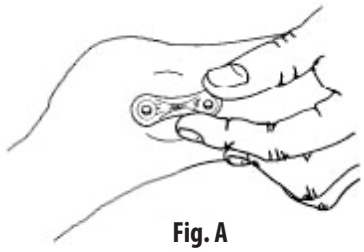

Fig. A

1. Use of Tamarack Molding Dummies or Tamarack Flexure Joint Caps (Model 741-CAP) is necessary to create proper cavities for installing Tamarack Flexure Joints.

2. Position each molding dummy* so the midpoint is located on/near the axis of joint motion (Fig. A). Secure to model using supplied shoe tacks (Fig. B).

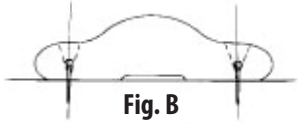

Fig. B

3. Prepare model for vacuum forming with your choice of thermoplastic or for lamination as desired.

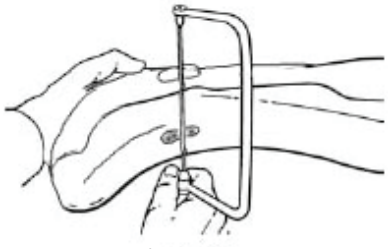

Fig. C

4. If a stockinette is pulled over the molding dummies before vacuum forming, it must be very thin/sheer to avoid interference with cavity shape. **Any excess stockinette thickness will prevent a proper, snug fit of the cavity around the joint.**

5. After cooling (or thermosetting), remove the plastic shell from the model and extract the molding dummies. Use a thin-bladed saw (a fine-toothed coping saw is best) to separate the two sections (Fig. C). **Do not use a cast saw** (too much material is lost along a jagged, wide cut line). Sharp edges along the separation line should be beveled off with a hand deburring tool (Fig. D). Sanding or grinding will reduce flexure coverage and lessen the ability of the cavity to properly anchor and control the flexure.

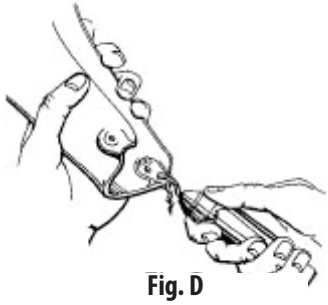

Fig. D

6. Free Motion (740 series) - To allow flexion in the posterior direction, grind a small "V" posterior to the midline of each cavity (Fig. E). Ensure that the "V" does not extend back past the center of the cavity. Remove material from the anterior side as needed to allow needed range of motion (Fig. F).

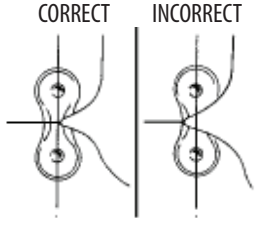

Fig. E

7. Use a Tamarack Hand Punch tool (T-740-2 series) to precisely locate and punch holes for the flexure joint anchoring screws (Fig. G). Large and Medium flexures require 4.5mm (3/16 inch) diameter screw clearance holes; the Small size requires 4.0mm (5/32 inch) diameter.

8. Insert the Tamarack Flexure Joints and secure with the anchoring screws (Large and Medium, M4 x 9; Small, M3.5 x 7). Depending upon the thickness of the plastic shell, it may be necessary to use shorter or longer screws than supplied in the package. The screw must not protrude inside the orthosis. Use a removable thread-locking compound on the screws.

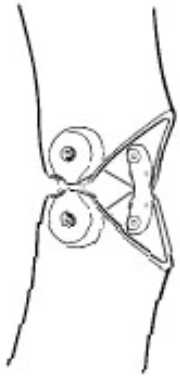

Fig. F

9. A properly installed Free Motion Flexure Joint will show no gapping along the separation cut at the center joint. There will be separation in the "V" shaped clearance area(s) where motion is desired (Fig. E).

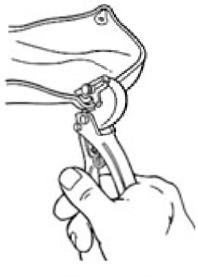

Fig. G

***Molding dummies gradually flatten and lose shape with repeated use. They should be replaced after approximately six moldings.**