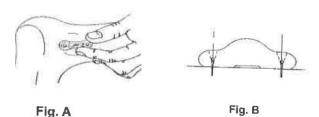
Fabrication/Installation Instructions

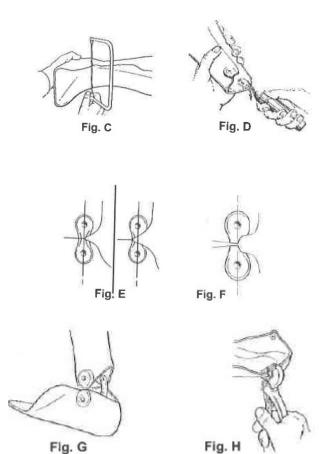
- Use of molding dummies or a Tamarack hand-molding tool (T-740-1 series) is necessary to generate a properly fitting cavity for the Tamarack Flexure JointsTM.
- 2. Position each molding dummy* so the midpoint is located on/near the axis of joint motion (Fig. A) and fix in place (Fig. B). Additional plaster build-up may be necessary when you plan to use dorsiflexion assist flexures (742 series). They bulge inward during plantar flexion.
- If a stockinette is pulled over the molding dummies before vacuum forming, it must be very thin/sheer. Any excess stockinette thickness will prevent a proper, snug fit of the cavity around the flexure.
- 4. When vacuum forming the thermoplastic or laminating, a small amount of extra material may be added at the Achilles Tendon area for a broader plantar flexion stop, if desired.
- 5. After cooling (or thermosetting), remove the plastic shell from the model, and extract the molding dummies. Using a thin-bladed saw (a fine-toothed coping saw is best), separate the foot section from the calf section (Fig. C). Do not use a cast saw for foot-calf separation (too much material is lost along a ragged, 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.

 6.a. Free Motion (740 series) Grind a small "V" anterior to the midline of each cavity (Fig. E). Ensure that the "V" does not extend back past the center of the cavity.
- b. Dorsiflexion Assist (742 series) Use a small radius tool to grind/form a "U" shaped anterior clearance (Fig. F). If plantar flexion range is required, remove material posteriorly as necessary (Fig. G) to provide needed clearance.
- 7. Use a *Tamarack hand punch tool* (T-740-2 series) to precisely locate and punch holes for the flexure anchoring screws (*Fig. H*). Large and medium flexures require 4.5mm (3/16 inch) diameter screw clearance hole; the pediatric 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; Pediatric, M3.5 x 7). Depending upon the thickness of the plastic shell, it may be necessary to adjust the length of the screws. The screw must not protrude inside the AFO. Use a removable thread-locking compound on the screws. Longer screws are available on request.
- A properly installed 740 series flexure will show no gapping along the separation cut except in the "V" or "U" shaped anterior clearance area.



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Flexure Joint™ Selection Guide

Standard Flexure Installation: Models 740 & 742
Using the standard molding cavity, any model of the same size can be interchanged for a variety of assist levels. See the chart on the opposite side for assist levels of several combinations.

Variable Assist (TVA) Installation: Model 743 (not shown)
Using the TVA molding cavity, the amount of assist can be
adjusted with a simple hex driver. Assist level options are
continuous from near zero to over 50% above standard.

For more information, call 1-866-795-0057 or visit www.oandp.com/tamarack

