

# Academy Tech Tips

## Attachment of the 4F18 Manual Lock Release for Orthotic and Prosthetics Joints

This illustration will show the use of a lock handle and how to attach it to a socket or an orthotic device to remotely release the lock mechanism. When lamination is being used, place the steel washer (Figure 1a) to the desired area.

After lamination has cured, drill the center of the steel washer with a #3 or 1/8" bit (Figure 2). Tap with a 4x0.7mm tap. For thermoplastic, drill a 5mm hole at the desired location and place the drive nut (Figure 1b) from the inside.



Figure 1a



Figure 1b



Figure 2

To straighten the perlon cable, apply a small amount of heat. Mount the handle (with the screw provided) to the washer or drive nut. With the knee in full extension (locked) pull the perlon cable through the handle till it is tight. Make sure the handle is pulled all the way down against the screw. At the proximal opening (where the perlon is inserted into the handle) mark the perlon with a felt pen. At this mark, cut the perlon with a side cutter at a slight angle (Figure 3)



Figure 3



Figure 4

Remove the 21A12 threaded fitting by installing it into a drill and holding the perlon with a pliers. Back the fitting off.

With a piece of leather and pliers, hold the perlon cable just below where the threaded fitting will start. Thread the sleeve to the perlon just below the beveled cut (Figure 4).

Reattach the handle and check the function of the joint (Figure 5). Make sure joint locks in full extension with cable slightly relaxed, if necessary readjust threaded sleeve to insure joint locks and unlocks as intended.



Figure 5

If you have any further questions, please contact Ottobock at 800 328 4058 and ask to speak with a member of our Professional and Clinical Services department.