



(1210-L) The Grace Lanyard Kit

Below Knee or Above Knee Limbs for Thermoplastic or Laminates

*Extra Lanyard Straps and Liner screws are available ala-carte (1210-LS)

1) Determine if you require an Anterior or Lateral strap exit through the socket.

2) You may use the Grace Lanyard plate itself, or the Grace Lanyard Fabrication dummy for creating the void in the distal socket where the finished lanyard plate will be installed. The Grace Fabrication Dummy is designed for multiple uses.

Note: If you use the Grace Lanyard Plate itself to create the socket void, be cautious to seal out resin, or plaster, from entering any of the screw holes or strap guide slot, using tape, clay, wax, or putty.

3) Apply mixed plaster onto the Grace Lanyard Plate, or the Grace Lanyard Dummy, and press it onto the distal end of the model, being sure that the 4-hole alignment screw holes, the Lanyard Strap guide slot, and Flexion and extension are set as you require it for your individual patient.

4) Fill in any areas, or voids, with plaster, so that there is a smooth transition between the plate or dummy, and the model. Be sure that the area between the plate or dummy and the model is not undercut, as this will prevent you from being able to remove the plate after the socket is fabricated.

5) Place (4) 6mm cap screws into the distal 4-hole pattern on the plate or dummy. Fill the wrench recesses on the screws with putty.

6) Layup your socket as you normally would, utilizing an inner PVA bag, pulled over a thin vacuum stocking, making sure you have at least 3 layers of carbon braid or 4 layers of fiberglass cloth distally for strength (a criss-cross design between the screws is best), or blister thermoplastic directly over the model.

7) When the socket is cured or cooled, grind the distal end until you just touch the distal cap screws. Back out the screws with an allen wrench. This will insure proper thickness and the exact 4-hole pattern needed.

8) Site the Lanyard Strap guide slot. Mark and cut the appropriate size elongated hole to align with the Lanyard Plate strap guide slot, making sure the hole is proper height and width to allow the strap to pull through smoothly.

9) Trim and polish the finished socket as you normally would, making sure there are no "nicks" around the distal holes or the strap guide hole. Fire polish thermoplastic if necessary.

10) Install the Lanyard Grace Plate into the socket, aligning the strap guide slot with the anterior or lateral hole that you made in the socket.

11) Place the Grace Spacer Plate between the 4-hole socket adaptor and the socket. This will insure even distribution of stress on the distal end of the socket. Torque the 6mm screws included with the kit to 12nm.

12) Rivet the chafe onto the socket 2/3 the way up the socket and centered either anterior or lateral, coinciding with the strap slot.

13) Insert the strap screw into the locking liner of your choice and thread the Lanyard strap through the Lanyard guide slot in the plate, with the strap exiting the outside of the socket, then up through the chafe, then back down onto velcro so it makes a strong hold.

14) Assemble the rest of the components normally.

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