

Socket Evaluation System with the Rapid Adjustment Pylon



Owner's Manual and Operating Instructions

Fillauer

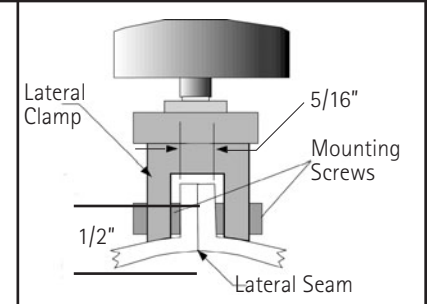
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The Socket Evaluation System from Fillauer, Inc. is a fast and easy way to secure a check socket to assess proper height and loading comfort. This prosthetic system utilizes endoskeletal components and attachments, replacing cumbersome metal stands or stools currently used. Using the Rapid Adjustment Pylon (R.A.P.) system included, the prosthetist can quickly adjust height. With the R.A.P. Adjustable Foot or standard prosthetic foot and endoskeletal components, an initial static alignment may be made and transferred. This process avoids “out of adjustment” alignment surprises, speeding dynamic fitting and delivery.

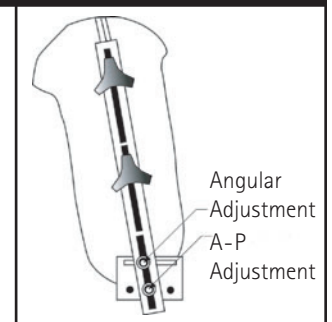
1. Form the Lateral Seam

The Lateral Seam is the most important fabrication step. The seam must be formed along the lateral bisection of the socket. It is also important that the seam be made straight with a uniform 5/16” thickness (not less than 1/4”). The depth of the seam should also be about 1/2” from the socket to let the lateral clamps contact the socket. Distally the seam is the load bearing element and should be flattened to broaden surface contact with the nonskid pad on the Socket Platform.



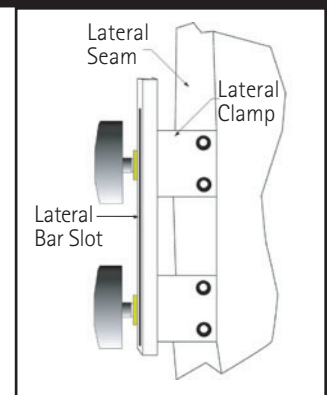
2. Attach the Socket to Lateral Clamps

Loosen knobs and lateral clamp set screws. Set socket in frame and slide lateral clamps 1” below top of lateral bar slots. Screw in all four posterior set screws so they extend about 3 turns into the lateral clamp slot. Tighten down anterior set screws so they seat firmly into plastic.



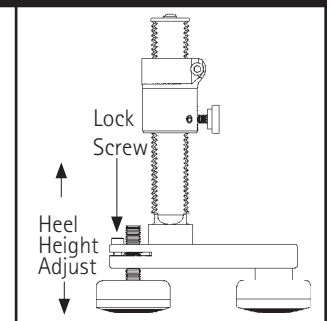
3. Adjust Socket Flexion and Secure to Lateral Bar

The socket should still be able to slide up and down against lateral bar. Let distal end make contact with socket platform for load bearing. Adjust desired bench alignment flexion angle with the lower two set screws and retighten. Making sure the distal end is in good contact with socket platform, tighten lateral bar knobs firmly.



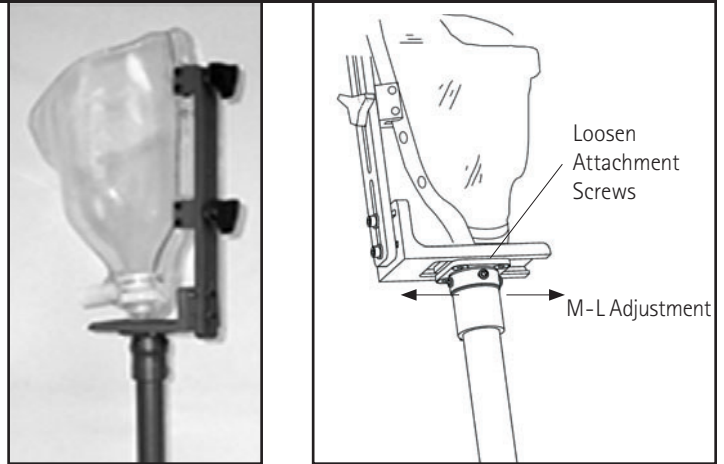
4. Adjust R.A.P. Adjustable Foot or Attach Prosthetic Foot

Using the R.A.P. Adjustable Foot, set the proper heel height. To prevent the heel from turning, tighten the rear locking screw. The foot may be used as a left or a right and the rounded bottom accommodates angular adjustments. A prosthetic foot may also be used with the foot plate attachment provided.* When attaching a prosthetic foot, use a 10mm foot bolt that extends at least 1-1/16” (27mm) and not more than 1 9/16 (39mm) beyond the foot plate (P/N 125712).



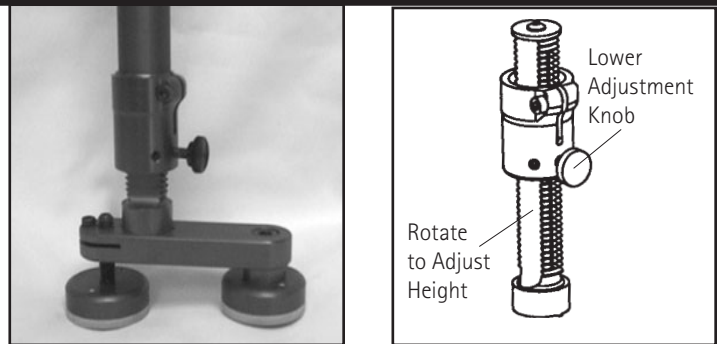
5. Bench Align Prosthesis

All adjustments can be made with a 4mm hex wrench. Place the Rapid Adjustment Pylon (R.A.P.) vertical height adjustment midway through its range. Use the pylon that best approximates the desired length of prosthesis (Ischial or MPT Height). Using the slide adjustment of the mounting plate set the desired inset/outset position. Utilize the endoskeletal pyramid adjustment to place foot properly in M-L and A-P range.



6. Check Height and Fit

The system is not for dynamic use, so suspension systems are not required. Adjust the foot so both foot pods are contacting the floor. Evaluate initial fitting comfort and height. To adjust height, unweight the prosthesis, loosen adjustment knob, and rotate adjustment rod to 90°. When the desired length is found, make sure adjustment rod is rotated to initial position and adjustment knob is retightened.

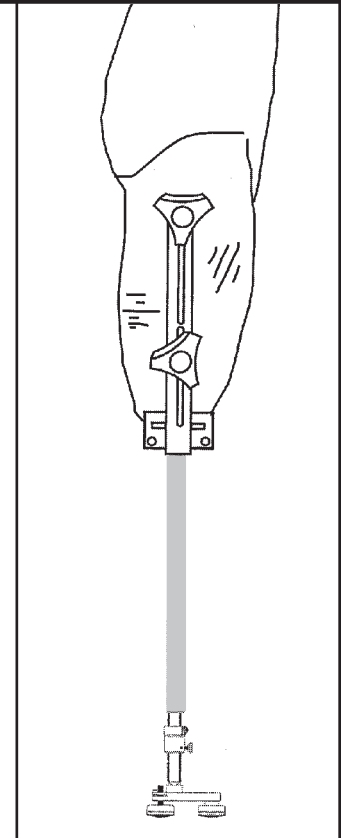
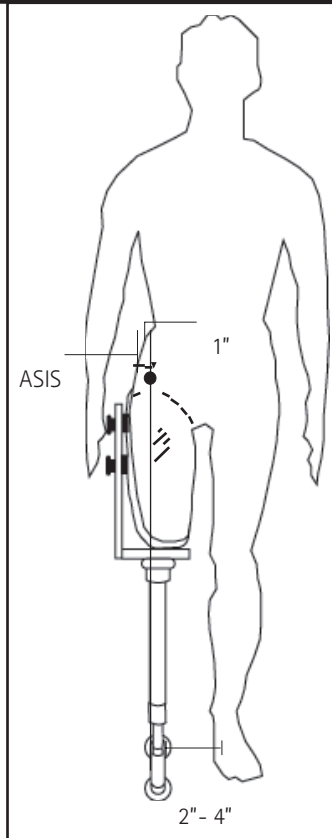


7. Statically Load and Adjust Alignment, Draw Reference Lines

Observe patient standing and make adjustments for a vertical pylon in the frontal and sagittal planes with the proper amount of flexion and adduction. (A slight anterior leaning pylon is acceptable when using R.A.P. Adjustable Foot). Have the patient simulate loading at full extension and toe off and inspect loading patterns. Check proximal trimline comfort.

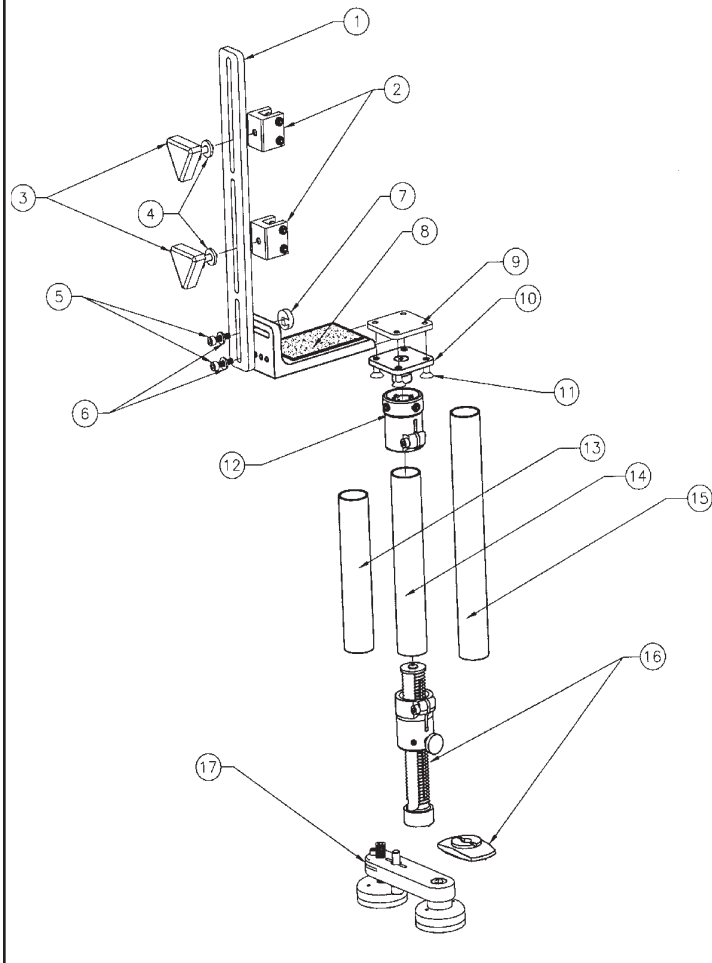


Have patient stand with feet about 2"- 4" apart and draw a plumb line 1" medial from the ASIS. With a BK the patella should be bisected with the alignment line. Draw a lateral plumb line to record socket flexion and record the final height.



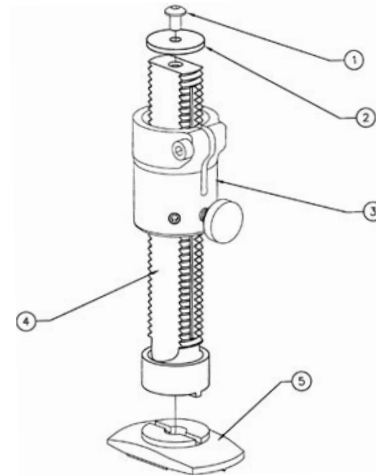
Socket Evaluation System, (S.E.S.) - P/N 125700

No.	Part No.	Description	Qty.
01	125732	Lateral Bar	1
02	125734	Lateral Clamp	2
03	880024	Tri Knob w/M6x20mm Male Insert	2
04	883229	Washer Grade 8, 9/32x5/8x.1	2
05	882516	Screw m5x.8x25mm SHCS	2
06	883217	Washer .219x.500x.065	2
07	125736	T-Nut	1
08	125730	Socket Platform	1
09	125728	Mounting Plate	1
10	124180	Socket ATT PLTE AL w/SS Pyramid	1
11	880276	Screw M6x1X12MM FHSC	4
12	124170	Pylon Tube Clamp w/Pyr. Rec.	1
13	125030	Pylon Tube 30mm 8"	1
14	125032	Pylon Tube 30mm 10"	1
15	125034	Pylon Tube 30mm 17"	1
16	125702	R.A.P. (Rapid Adjustment Pylon)	1
17	125710	R.A.P. Adjustable Foot	1



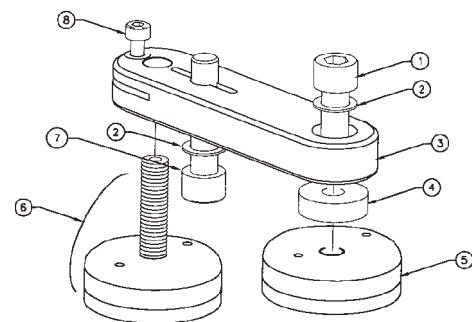
Rapid Adjustment Pylon (R.A.P.) - P/N 125702

No.	Part No.	Description	Qty.
01	882506	Screw M5x.8x8mm Bhsc	1
02	125724	Retaining /Guide Washer	1
03	125722	Adjustment Collar/Pylon Clamp	1
04	125720	Adjustment Rod F/ R.A.P.	1
05	125712	Foot Plate	1



R.A.P. Adjustable Foot - P/N 125710

No.	Part No.	Description	Qty.
01	880296	Screw M10x1.5x25mm Shcs	1
02	883260	Washer 3/8" (10mm) Belleville	2
03	125718	R.A.P. Foot Base	1
04	125719	Spacer F/ R.a.p. Foot	1
05	125716	Pad F/ R.a.p. Foot	1
06	125714	Heel F/ R.a.p. Foot	1
07	880297	Screw M10x1.5x40mm Shcs	1
08	882510	Screw M5x.8x14mm Shcs	1



Important Considerations

- The Socket Evaluation System is for height and static fitting purposes only. Dynamic walking could result in system failure and patient injury.
- Unsupervised patient use is not recommended.
- The socket seam should be of adequate thickness (1/4"-5/16"). For adequate structural integrity, Durr-Plex material is recommended.
- All screws and knobs must be inspected and tightened to ensure patient safety.
- Use a dry floor. Moisture may cause slippage when using the R.A.P. Adjustable Foot.