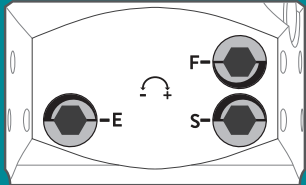


ATTENTION:

Alignment for the Capital hydraulic knee is different from other hydraulic knees on the market. Please follow these simple instructions to ensure proper alignment and correct function of the knee.

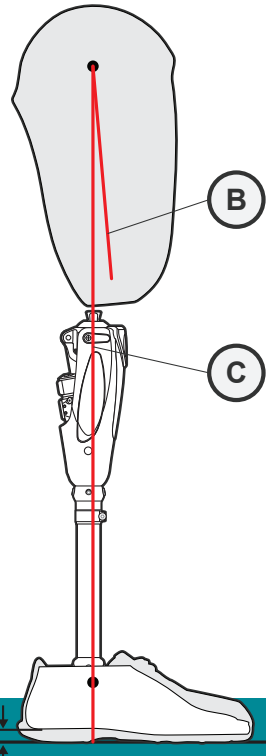


Hydraulic Cylinder – Factory Settings

F – Swing Flexion is at **MINIMUM** resistance

E – Swing Extension is at **MINIMUM** resistance

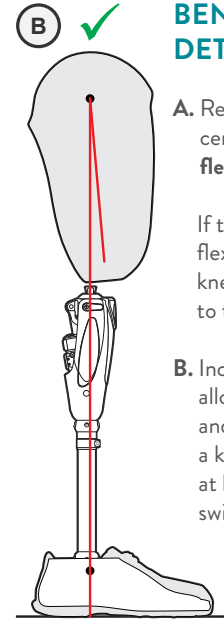
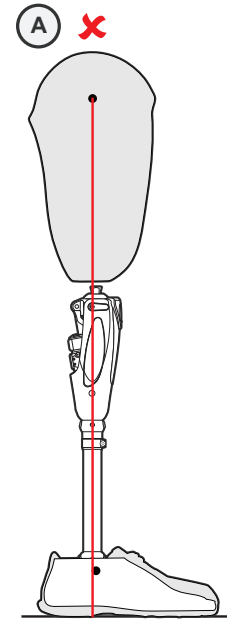
S – Stance Flexion is at **MAXIMUM** resistance



ALIGNMENT RECOMMENDATION

- A. Determine the heel height
- B. Determine the socket flexion
- C. The alignment reference line bisects **through OR is slightly anterior** (0-5mm) to the knee center

It is **critical** to ensure appropriate socket flexion.

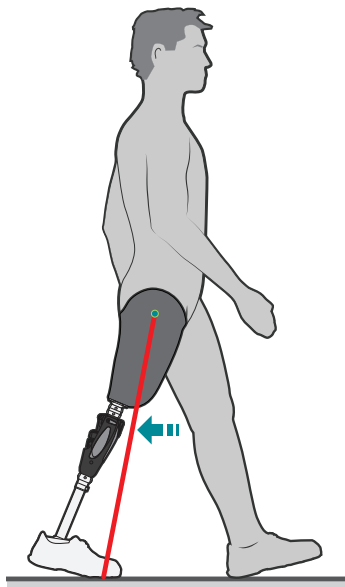


BENCH ALIGNMENT DETAILS

- A. Reference is through knee center, **but little or no socket flexion.**

If there is not enough socket flexion or socket is not anterior to knee center, knee may be difficult to trigger.

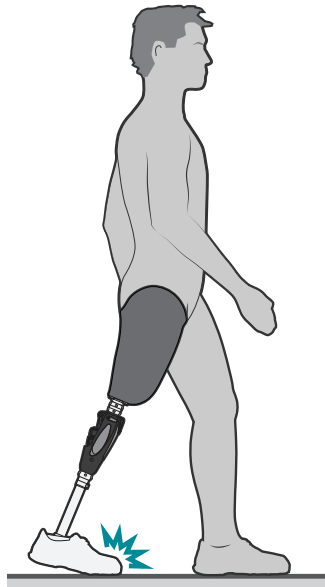
- B. Increasing socket flexion will allow for greater hip extension and require less effort to create a knee hyperextension moment at late stance necessary for knee swing flexion.



DYNAMIC ALIGNMENT - INITIATING SWING FLEXION

The Capital's hydraulic stance control **requires a toe load** to initiate swing: Hyperextend knee (apply weight on the toe), then *quickly* flex the hip.

- If hip flexion is not initiated quickly, the knee will remain in stance flexion resistance for stability.
- This action eliminates high stance resistance so that swing resistance remains independent.
- When properly aligned, little effort from hip flexors is required to initiate knee flexion.
- It is critical that the user has sufficient hip extension ROM to achieve knee hyperextension at late stance.



CAPITAL KNEE - TROUBLESHOOTING

Problem: User is unable to initiate swing flexion smoothly. '**Toe catches**' while knee remains in full extension during pre-swing.

Possible causes:

Alignment related

(insufficient knee hyperextension)

- **Socket too posterior relative to knee**
- Foot position is too posterior relative to knee and socket
- Insufficient hip extension ROM or socket flexion

Gait related

(insufficient toe load)

- **Not weight bearing through late stance**
- Hip hiking habit
- Excessive dorsiflexion of foot

Foot function

- Dorsiflexion stop on foot is too soft
- Shortened keel/reduced toe lever

Hydraulic function

- "F" resistance is too high



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