

Quick Reference Card – All-Terrain Knee™ Collection

 Read full **Instructions for Use** prior to fitting

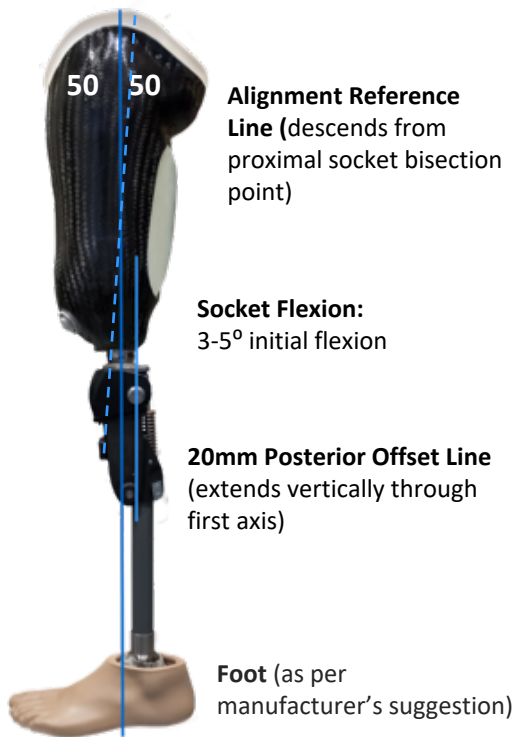
1. SAGITTAL PLANE ALIGNMENT:

Position the knee's first axis 20mm posterior to the plumb line bisecting proximal aspect of socket (baseline recommendation)

To increase ease of unlocking, increase toe load e.g.:

- Shift knee posterior
- Plantarflex foot
- Increase socket flexion

Tighten pylon clamp of knee to 10Nm (8 ft lb)



Shift knee anterior

- greater toe clearance



Shift knee posterior

- greater geometric stability
- increased ease of unlocking

2. FLEXION STOP:

In maximum flexion, it is vital that a flexion stop is in effect and contacts the All-Terrain Knee in the proper location. See examples below:

Incorrect: No contact point exists between socket and lower body of knee in maximum flexion. Damage to knee may occur.



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Correct: Socket naturally contacts the body of knee below the spring assembly. A flexion stop (e.g. crepe) may need to be affixed to socket to achieve this.



Alternatively, a flexion stop may need to be affixed to the knee's pylon adaptor and the sidewalls surrounding the extension assist spring.

3. FRICTION MECHANISM:

Factory Setting:

Tighten mechanism with 4mm hex key and 5 Nm/4 ft lb torque, then turn  by 1.5 revolutions.

Do not loosen past factory setting as friction mechanism may disengage. If user requires a more free-swinging knee, the friction mechanism assembly can be removed and stored for later use (see opposite side for details).



Threadlocker: place on thread to prevent loosening. (Use Blue Loctite 242 or similar)

With user in parallel bars adjust as follows:

If excessive terminal impact



by 1/4 turn increments

If knee does not reach full extension



by 1/4 turn increments

All-Terrain Knee™ Collection Easy Guide

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4. EXTENSION ASSIST ADJUSTMENTS:

Extension Assist Stiffness Options:



Weak Med. Strong

Blue available upon request

Spring Assembly: Insert spring base into chosen spring



Watch out for finger traps when compressing the spring.

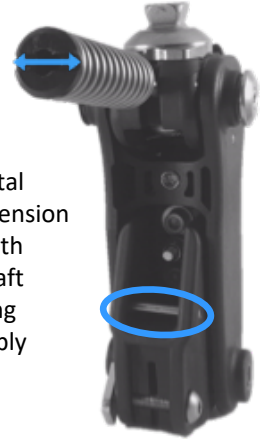
Removal: insert flathead screwdriver below the spring base and above horizontal shaft. Compress spring upward and pull outward.



Posterior View

Installation:

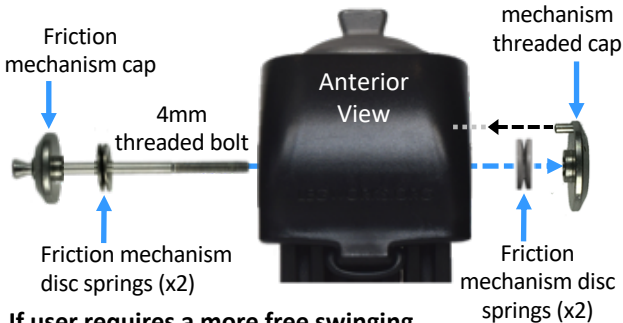
Align horizontal groove of extension assist base with horizontal shaft prior to closing spring assembly



Posterior View

5. FRICTION MECHANISM REMOVAL AND INSTALLATION

Friction Mechanism Components:



If user requires a more free swinging knee, remove the friction mechanism by turning the friction mechanism 4mm hex bolt until threading releases. Carefully remove and re-assemble to avoid misplacing parts.

Re-installing the Friction Mechanism:

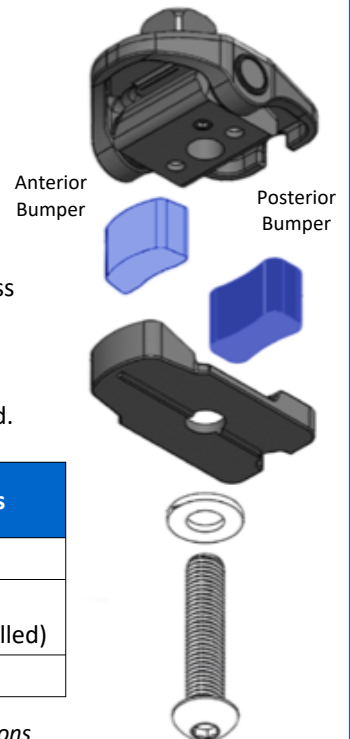
- Insert parts as show above
- Ensure that convex surfaces of washers face each other
- Turn 4mm bolt until threading engages
- Apply Loctite 242 or equivalent on threaded end of bolt with knee on its side, allow Loctite to penetrate threads.
- Further tighten 4mm bolt using 5Nm/4 ft lb of torque
- Turn bolt by 1.5 revolutions (factory setting)

ATK-SF-01 and ATK-SF-02 ONLY - ADJUSTABLE STANCE FLEXION ADJUSTMENTS:

Adapter Components:

- Proximal pyramid assembly
- Bumpers (anterior/posterior)
- Base plate
- Washer and bolt (30 Nm/22 ft lb)

Posterior bumper hardness selection is based on preference. Knee is pre-assembled with medium hardness bumper installed.



Posterior Bumper Color	Hardness
Black	Soft
Blue	Medium (preinstalled)
Gray	Firm

*See IFU for detailed instructions



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