

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 12Nm (9 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.



Incorrect: Socket is in direct contact with extension assist spring assembly in maximum flexion. Damage to knee may occur.



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 obtain this result.



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 ADJUSTMENTS



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

Minimum Friction Setting (MFS): failure to achieve MFS causes friction mechanism to loosen and fall off with use.

Ensure the friction mechanism caps and disc springs are not loose i.e. able to rattle or make noise when tapped with a finger.

Friction Mechanism Cap



Gap present with disc springs in slight compression

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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

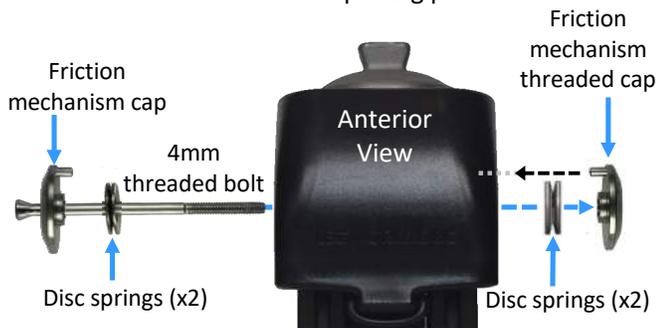
Installation:
Align horizontal groove of extension assist base with horizontal shaft prior to closing spring assembly



Posterior View

5. FRICTION MECHANISM REMOVAL AND INSTALLATION

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



Re-installing the Friction Mechanism:

- Insert parts as shown above and ensure the convex surfaces of the disc springs face each other
- Turn 4mm bolt  until the thread engages
- Further tighten 4mm bolt until the friction mechanism caps and disc springs are not loose i.e. able to rattle or make noise when tapped with a finger.



Gap present with disc springs in slight compression

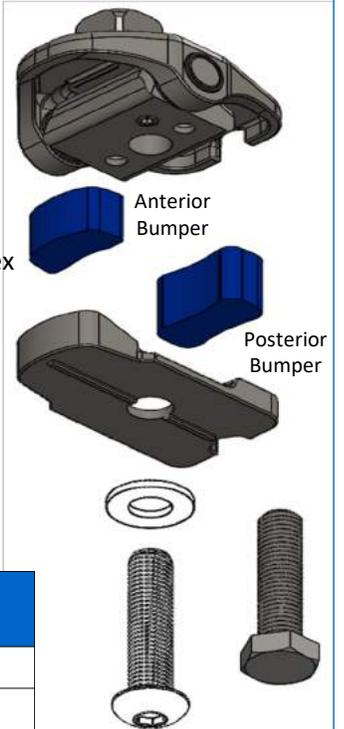
6. ATK-SF-01 and ATK-SF-02 ONLY - ADJUSTABLE STANCE FLEXION ADJUSTMENTS*

Adapter Components:

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

For ATK-SF-01, use a 6mm hex key bit.
For ATK-SF-02, use a 16mm socket.

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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