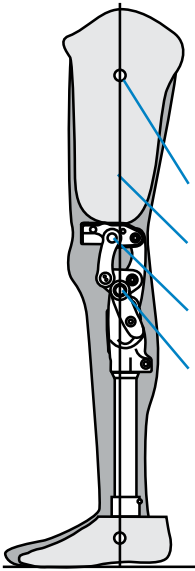
Total Knee® System Adjustment

ALIGNMENT RECOMMENDATIONS



Position the socket so that the alignment reference line bisects the lateral wall of the socket and falls 0 - 5 mm anterior to the pivot axis

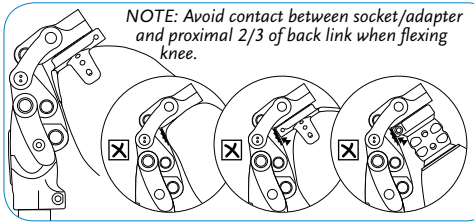
Socket bisection

Alignment reference line

Pivot axis reference point

Pivot axis

NOTE: If the weight line is too far anterior to the pivot axis, the knee will be more stable and may require more effort to initiate knee flexion.



NOTE: Avoid contact between socket/adapter and proximal 2/3 of back link when flexing knee.

STANCE CONTROL AND STANCE FLEXION ADJUSTMENTS

1100

Color	Durometer	Patient Weight
Green	Soft	Approx. 14-20kg (30-45lbs)
Black	Regular	Approx. 20-29kg (45-65lbs)
Red	Firm	Approx. 29-36kg (65-80lbs)
Yellow	Extra Firm	Approx. 36-45kg (80-100lbs)

1900 and 2000

Color	Durometer	Patient Weight
Green	Soft	Approx. 35-50kg (90-120lbs)
Black	Regular	Approx. 50-70kg (120-160lbs)
Red	Firm	Approx. 70-90kg (160-200lbs)
Yellow	Extra Firm	Approx. 90-100kg (200-220lbs)

2100

Color	Durometer	Patient Weight
Black	Soft	Approx. 50-70kg (120-160lbs)
Red	Regular	Approx. 70-90kg (154-198lbs)
Yellow	Firm	Approx. 90-110kg (198-242lbs)
Orange	Extra Firm	Approx. 110-125kg (242-275lbs)

Shim Adjustment

Increasing shim height will allow for decreased stability and an earlier release of the geometric lock.
Decreasing shim height will allow for increased stability and a delayed release of the geometric lock.

Foot Considerations:

- If the foot has a soft heel, use a soft bumper.
- If the foot has a hard heel, use a firm bumper.

KNEE SELECTION

TK model	Activity	Weight limit
TK1900	Non variable cadence	100 kg (220lbs)
TK2000	Variable cadence	100 kg (220 lbs)
TK2100	Variable cadence with/without high impact	125 kg (275 lbs)
TK1100	For all pediatric applications	45 kg (100 lbs)

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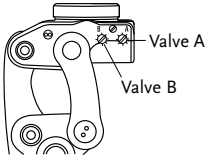
SWING CONTROL ADJUSTMENTS

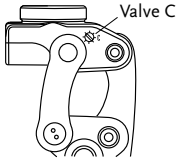
Hydraulic Resistance Adjustments - 2000 and 2100



Factory settings:
The hydraulic valves are preset to the following settings.

- Valve A: 3/4 open
- Valve B: 3/4 open
- Valve C: 1-1/2 open

Flexion Resistance

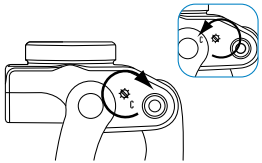


Flexion Resistance

- Valve A - The “A” valve controls the resistance from 60° to the fully flexed position
- Valve B - The “B” valve controls the resistance from fully extended to 60° (0-60).
- Valve C - The “C” valve controls the extension resistance.

Extension Resistance

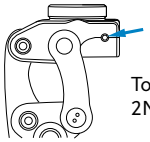
Clockwise turn closes valve - increases resistance



Counter-Clockwise turn opens valve - decreases resistance

CAUTION! Valve can be damaged by over tightening or flexing the knee with all the valves closed

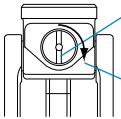
POLYMER FRICTION SWING CONTROL ADJUSTMENTS - 1900



Set Valve

Torque Set Valve to 2Nm (17 in-lbs)

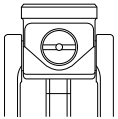
NOTE: Do not exceed 1/2 turn



Friction Adjustment Valve

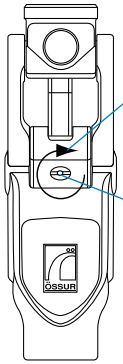
Clockwise adjustment increases friction

Minimum Resistance



Maximum Resistance 1/4 turn

Extension Promoter - 1100, 1900, 2000 and 2100



Clockwise rotation decreases heel rise

Extension Promoter Adjustment Screw

The purpose of the Extension Promoter is to reduce excessive heel rise. The Extension Promoter is set at minimum when shipped from Össur.

Össur Head Office
Grjóthháls 5
110 Reykjavík, Iceland
Tel: +354 515 1300
Fax: +354 515 1366

Össur Americas
Tel: +1 (949) 382 3883
Tel: +1 800 233 6263
Fax: +1 800 831 3160
ossurusa@ossur.com

Össur Canada
Tel: +1 604 241 8152
Fax: +1 604 241 8153

Össur Europe
Tel: +800 3539 3668
Tel: +31 499 462840
Fax: +31 499 462841
info-europe@ossur.com

Össur Nordic
Tel: +46 1818 2200
Fax: +46 1818 2218
info@ossur.com

Össur UK
Tel: +44 161 490 8500
Fax: +44 161 490 8501
ossuruk@ossur.com

Össur Iberia S.A.
Tel: +34 91 636 06 93
Fax: +34 91 637 21 43
ortesica@ossur.com

Össur Asia
电话：+86 21 6127 1700
传真：+86 21 6127 1799
asia@ossur.com

Össur Asia-Pacific
Tel: +61 2 88382800
Fax: +61 2 96305310
info-asiapacific@ossur.com

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