

# ENDOLITE

## Instructions for Semi-Automatic Knee Lock

A Knee Lock Mechanism for use in a Trans-femoral or Knee Disarticulation lower limb external prosthesis.  
To be fitted only as part of an Endolite Modular Limb System.

**SAKL Only for EUK 239135**  
**EUK Module 019155**  
**EUK 4 Bolt Module 019355**



**SAKL Only for E4BKD 239134**  
**E4BKD Module 019336**



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- Section 1 Fitting Instructions**
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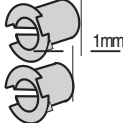
## Fitting Instructions for SAKL

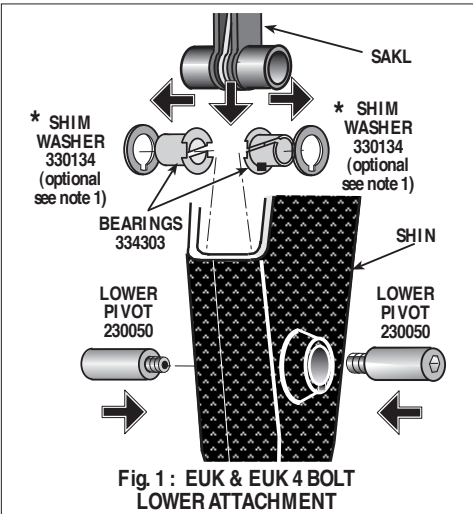
If fitting with a left sided thigh release - see back page for recommended assembly

User/attendant should be aware of potential finger trap hazards at all times.

Fitting Kit: EUK 019955

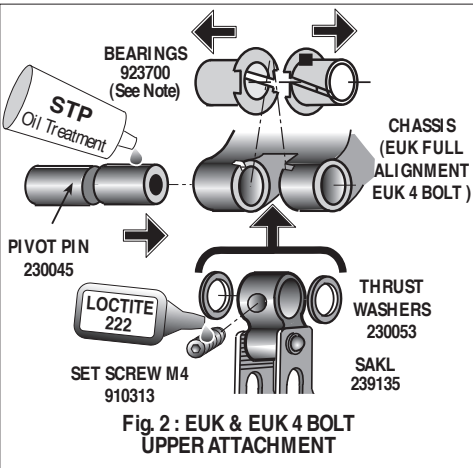
For E4BKD refer to Instruction 938012 with Supplement 938013

<p>923700</p>  <p>334303</p>	<p><b>NOTE:</b> Chassis Rear Pivot Bearings (923700) are approximately 1mm longer than the Lower Pivot Bearing (334303) in shin. Identify these correctly before proceeding with assembly.</p>
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### LOWER ATTACHMENT (Fig. 1)

- Orientate SAKL with set screw hole in top, facing outer most. Where sufficient clearance exists, assemble Thrust Washers onto Bearings, as shown, before inserting Bearings into shin. Ensure the anti-rotation key on each Bearing is correctly located in the appropriate slot in the Washer and shin. Before the final assembly of the Lower Pivots, put the SAKL into the shin and position between the Lower Pivot Bearings.
  - \* If there is insufficient clearance between the bearings and the cylinder then BOTH Shim Washers must be removed.
- Apply a very light smear of STP Oil Treatment (928105) to each Lower Pivot.

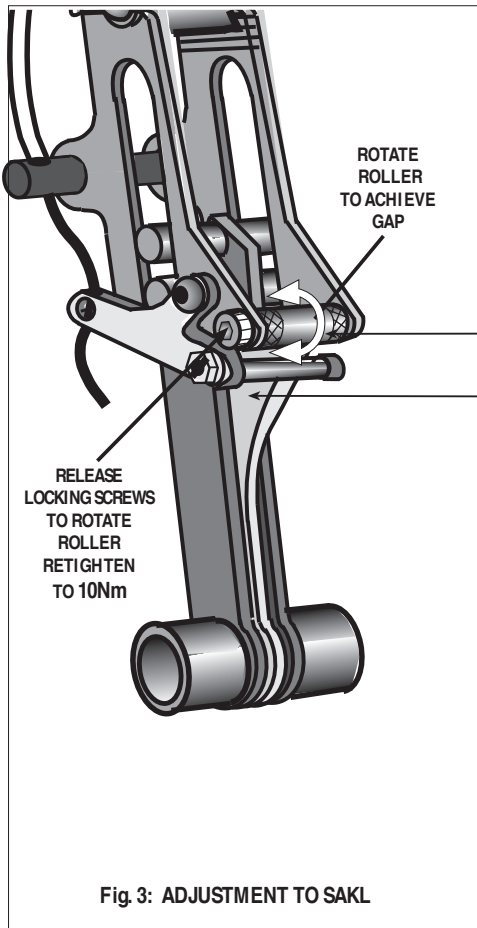


- Apply Loctite 222 Screw Lock (926001) to threads on Lower Pivots and with SAKL positioned with assembly holes aligned with Bearings, insert Pivots and carefully tighten into the SAKL base.

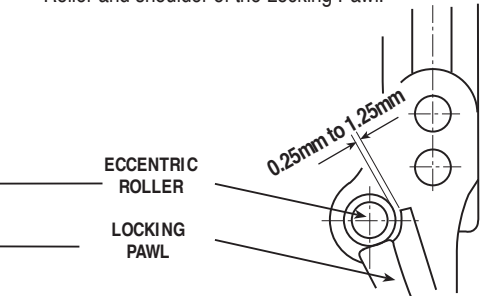
### UPPER ATTACHMENT (Fig. 2) EUK Only

- Ensure anti-rotation key on each bearing is correctly located in the appropriate slot in the inside lugs of the chassis.
- Apply a very light smear of STP Oil Treatment (928105) to the Rear Pivot Pin.
- Position SAKL and Thrust Washers between Chassis Rear Lugs in orientation shown and insert Rear Pivot Pin into the Chassis. Gently push through and centralise.
- Apply Loctite 222 Screw Lock (926001) to the M4 Set Screw and tighten into groove of the Rear Pivot Pin.

## Adjustment Instructions for SAKL



1. To adjust the unit to compensate for wear it will be necessary to remove the SAKL from the EUK shin. The adjustment on E4BKD can be made without removal.
2. Extend SAKL fully, check the gap between the Eccentric Roller and shoulder of the Locking Pawl.



3. The gap should be between 0.25mm and 1.25mm.
4. To take up wear by means of the Eccentric Roller, release the two Locking Screws.
5. Rotate the Eccentric Roller to achieve the required gap in full extension, retighten screws to 10Nm.
6. To ensure setting has been made correctly, release lock and compress SAKL then extend rapidly to engage lock with 'snap' action. repeat Stages 3, 4 & 5 if necessary. Lock to engage with no rock evident at full extension.
7. Reassemble SAKL into the shin.

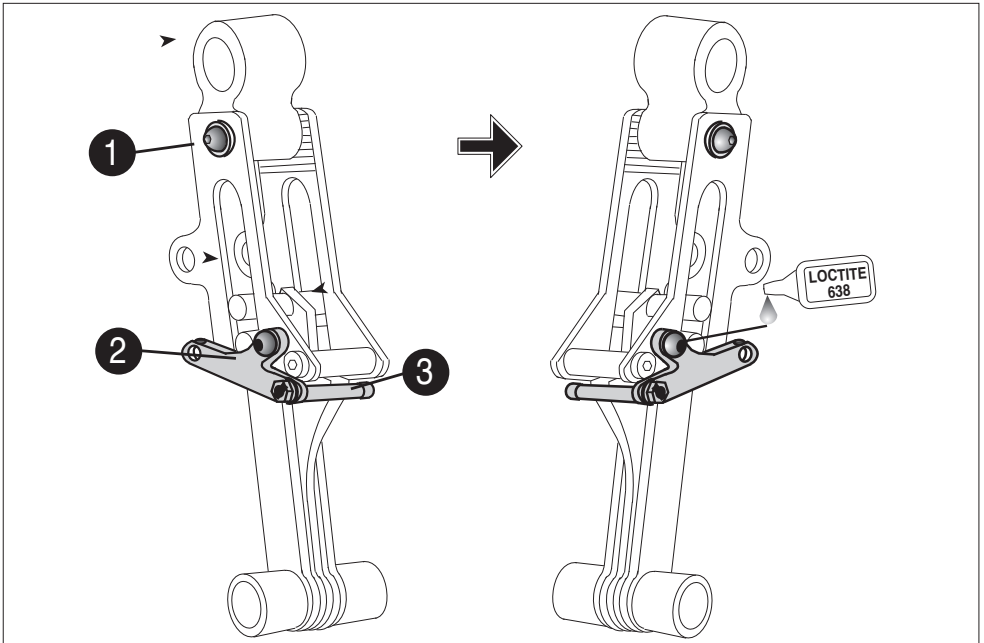
**Note:**

Refer to Thigh Release Control Fitting Instructions for fitting of cable release mechanism.

## Recommended assembly for left handed thigh release

The unit is supplied assembled to suit a thigh release fitted to the right side.  
For fitting to the left side - disassemble the parts shown bold below  
reverse and reassemble Stages 1,2, and 3 as shown.

It is recommended that the relevant parts are moved to the appropriate side as shown. Where the cable is routed across the knee, there is a risk of entrapment between shin and SAKL. This could prevent the lock functioning correctly.



The wearer is to be advised that hyperextension of the knee is required to ensure full engagement of the lock.