**LTI Locking Shoulder Joint**

**Shoulder Joint**

The LTI Locking Shoulder Joint is supplied as an exoskeletal version. The SJ90 joint is supplied with a convenient exoskeletal humeral mounting plate. This can be converted to an endoskeletal joint, by obtaining the Endoskeletal Adapter Kit (SJ62). The joint is normally attached to the socket with a mounting ring. If the socket does not have adequate stiffness to support this joint, an optional 3-spoke mounting plate (SJ60) can be substituted providing exceptional strength.

**SJ90** LTI Locking Shoulder Joint, Endoskeletal, Manual Lock Actuator

*This joint has an mechanical lock actuator
For remote lock actuation, use one of the mechanical release levers:*

*The joint is supplied with the exoskeletal plate attached.*

**SJ92** LTI Locking Shoulder Joint, Endoskeletal, Electric Lock Actuator

*This joint has an electric lock actuator
For electric lock actuation, a cable, switch, battery and charger are required*

*The joint is supplied with the exoskeletal plate attached.*

**Lock Releases**

This joint can be controlled in several ways; the user can simply activate the lever on the side of the joint to unlock it, use a remote lock release lever, use a chin-activated nudge switch or use an optional powered actuator for the users convenience. To simplify fabrication, the activation lever can be repositioned to any convenient location around the perimeter of the joint.

Alternatively, a Lock Release on a cable can be used to provide better access. The SJ43L and SJ44R are spring-loaded and alternately lock and unlock the shoulder joint flexion/extension. These releases merely reposition the manual unlock making it more convenient for the user to operate the lock release lever with their sound-side hand. These Lock Release Kits contain the release mechanism with a mounting plate, a low-friction Teflon-lined cable and a joint mounting plate with a cable alignment/adjustment piece. The SJ45L and SJ46R are “nudge switches” intended for chin activation. The optional Motor-Driven Lock/Unlock (SJ77) will perform these same actions. It is operated by any convenient switch.

**SJ43L** Lock Release Kit, Spring Loaded, Left

*With this spring-loaded release, the joint may be switched from locked to unlock and back alternatively.*

*For use with SJ90 Locking Shoulder Joints*
**LTI Locking Shoulder Joint**

**SJ44R**  Lock Release Kit, Spring Loaded, Right  
*With this spring-loaded release, the joint may be switched from locked to unlock and back alternatively.*  
*For use with SJ90 Locking Shoulder Joints*

**SJ45L**  Lock Release, Sierra Nudge Control, Left  
*Supplied with cable alignment/adjustment plate*  
*Use this release to momentarily unlock the joint.*  
*For use with SJ90 Locking Shoulder Joints*

**SJ46R**  Lock Release, Sierra Nudge Control, Right  
*Supplied with cable alignment/adjustment plate*  
*Use this release to momentarily unlock the joint.*  
*For use with SJ90 Locking Shoulder Joints*

**Shoulder Joint Accessories:**

**SJ53**  Boston Arm Adapter, Endoskeletal  
*Adapter kit for connecting a Boston Digital Arm to an LTI Locking Shoulder Joint (SJ90)*

**SJ55**  Boston Arm Trial Fitting Adapter  
*An adapter especially for trial fittings. Both the length of the humeral section and the angle of the elbow turntable can be adjusted. Supplied with bent and slotted attachment plate. When used with Adjustable Check Socket Collar (BE309), angle can be adjusted off-axis up to 7°.*  
*Adapter can be rented – call LTI 800-437-0024*
SJ60  3-Spoke Mounting Plate
Because it can be readily shaped with bending irons, this plate is often used for trial fittings even though the standard mounting ring will be used on the definitive prosthesis.

SJ61  Spare Exoskeletal Attachment Plate
The plate measures 5.45" x 1.25" (137mm x 32mm) with mounting holes on both ends of plate allowing it to be mounted in either direction, straight or angled.

SJ62  Endoskeletal Adapter Kit
This kit contains a 20 mm diameter tube with suitable stainless steel attachment clips. The tube is often used during a trial fitting after which the endoskeletal plate may be used in the definitive prosthesis.

SJ63  Straight Mounting Plate
Because it can be readily shaped with bending irons, this plate is often used for trial fittings even though the standard mounting ring will be used on the definitive prosthesis.

SJ77  Electric Lock Conversion Kit for SJ90
This small actuator assembly mounts just below the SJ90 joint and will not interfere with its motion.
For electric lock actuation, a cable, switch, battery and charger are required.
SJ81 Adapter-Cable, SJ77, for Bock Switch
Operates using most Bock dual-action switches, i.e. 9X14, 9X18, or 9X25 (but not 9X37) or the VASI BE234 Dual-Action Push Switch. Bock compatible. A 9E185=30, =40 or =50 extension cable may be required. Supplied with plugs to connect to the SJ77/SJ92, any Bock compatible switch, and any LTI Type “S” built-in battery.