

Main Parts

- 1 Semicircular arc
- 2 Instrument carrier
- 3 Instrument stop holder - engraved
- 4 Instrument guide holder
- **S** Axis support engraved

- 6 Axis support
- Arc axis engraved
- 8 Arc axis
- 9 Arc supports engraved
- 10 Slides
- 11 Instrument screwdriver

Quick reference guide

Leksell® Multi **Purpose** Stereotactic Arc

Introduction

This is a quick reference guide for Leksell® Multi Purpose Stereotactic Arc. It is the user's responsibility to be fully informed of its proper use. For detailed instructions read Leksell® Multi Purpose Stereotactic Arc. Instructions for Use.

Leksell® Multi Purpose Stereotactic Arc is part of Leksell Stereotactic System®, which is intended for localization and diagnosis of intracranial disorders and their surgical treatment including radiosurgery and stereotactic radiation therapy.

Caution

The user must read and fully understand the Hazard Notices and other Notices contained in Leksell® Multi Purpose Stereotactic Arc, Instructions for Use.

Names and abbreviations

= Leksell[®] Multi Purpose Arc

Stereotactic Arc

Frame = Leksell® Coordinate

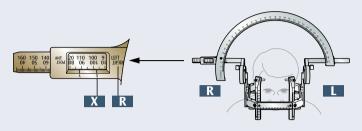
Frame G



Arc orientations

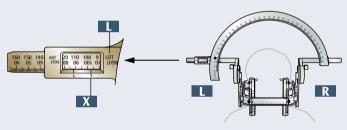
Lateral right orientation

- The engraved arc axis is on the patient's **right** side.
- The engraved surface of the arc faces **anterior**.
- The X coordinate is set on the RIGHT scale.



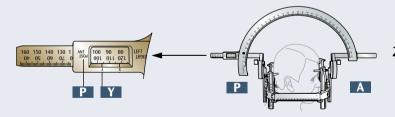
Lateral left orientation

- The engraved arc axis is on the patient's **left** side.
- The engraved surface of the arc faces **posterior**.
- The X coordinate is set on the **LEFT** scale.



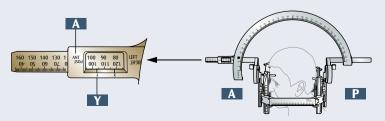
Sagittal posterior orientation

- The engraved arc axis is at the patient's **posterior**.
- The engraved surface of the arc faces the patient's right side.
- The Y coordinate is set on the POST scale.



Sagittal anterior orientation

- The engraved arc axis is at the patient's **anterior**.
- The engraved surface of the arc faces the patient's left side.
- The Y coordinate is set on the ANT scale.



Assembling - lateral arc orientations

12

Fitting arc supports and setting Z coordinate

- 1. Insert an arc support 9 in a slide 10
- 2. Move support and align the required Z coordinate exactly with the index mark 12
- 3. Secure the arc support at the required Z coordinate.

NOTE

Do not overtighten the screw to secure Z coordinate. Otherwise it may be difficult to move slide and arc support along the frame.

4. Fit and secure the other arc support in the slide in the same manner.

Fitting slides and setting Y coordinate

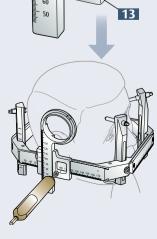
1. Insert a slide (with arc support) 10 over the groove of a side bar.



 Move the slide and align the required Y coordinate exactly with the vertical index mark 13



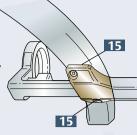
- **3.** Secure the slide with the instrument screwdriver.
- **4.** Fit and secure the other slide with arc support.



Fitting arc axis and setting X coordinate

NOTE

If the arc axis holders have been disassembled ensure that both have been properly remounted. There should be no gap 15 between them and the back surface of the arc.



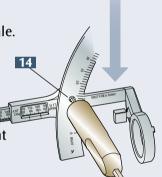
1. Loosen thumbwheel at back of unmarked axis support and slide unmarked axis to open position.

2. Move the engraved arc axis and align the required X coordinate exactly with the X index mark.

NOTE

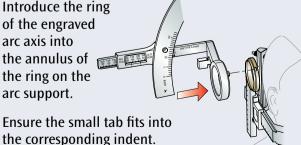
Make sure to use correct scale.

3. Secure the arc axis by tightening the screw 14 on the engraved face with the instrument screwdriver.



Fitting the arc and setting the ring angle

- 1. Align the arc correctly with the frame.
 - Lateral right orientation the engraved arc axis must mate with the arc support ring on the patient's right side.
 - Lateral left orientation the engraved arc axis must mate with the arc support ring on the patient's left side.
- 2. Introduce the ring of the engraved arc axis into the annulus of the ring on the arc support.



3. Fit the ring of the unmarked arc axis into the ring of the other arc support.

> Ensure the small tab fits into the corresponding indent.

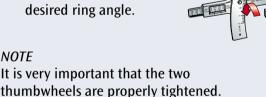
Carefully push the unmarked arc axis inwards and hold it firmly. Tighten thumbwheel on back of unmarked arc axis with other hand to secure the unmarked arc axis in place. Make sure there is no narrow opening 16



Release the thumbwheel at 5. the ring on each arc axis.

6. Tilt the arc until the index mark is exactly aligned with the desired ring angle.

7. Tighten the thumbwheels on both arc axis to secure the arc at the desired ring angle.



Assembling – sagittal arc orientations

NOTE

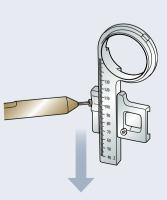
For sagittal orientations use a straight or slotted front piece – not a curved one.

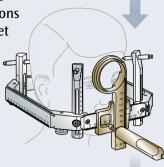
Assembling of the arc for sagittal orientations follows in principal the same workflow as for lateral orientations with some important exceptions.

1. Setting Z coordinate

The Z coordinate is set in the same way as for lateral orientations.

The coordinate is set on the arc support.





3. Setting Y coordinate

piece and back

piece of the frame.

For sagittal orientations the Y coordinate is the last coordinate set.

The coordinate is set on the engraved arc axis with the Y index mark.



NOTE

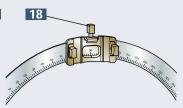
Make sure to use the correct scale.

- 4. Align the arc correctly with the frame.
 - Sagittal posterior orientation the engraved arc axis must mate with the arc support ring on the patient's posterior.
 - Sagittal anterior orientation the engraved arc axis must mate with the arc support ring on the patient's anterior.

Fitting the instrument carrier Setting the arc angle

- 1. Release locking thumbwheel 18
- **2.** Attach the instrument carrier to the arc.
- 3. Ensure that the carrier is correctly oriented so that index mark is visible at the engraved face of the arc.
- **4.** Move the carrier until the desired arc angle is exactly aligned with the index mark.

5. Tighten thumbwheel on top to secure the instrument carrier.

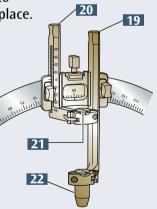


Fitting the instrument guide and stop holders

- Insert the stem of the instrument guide holder 19 into the unmarked slot in the instrument carrier with the collar nearest to the patient's skull.
- **2.** Tighten the thumbwheel to secure the guide holder.
- **3.** Insert the stem of the instrument stop holder 20 in the marked slot of the instrument holder with the collar nearest to the patient's skull.
- Move instrument stop holder until the horizontal index mark on the carrier is exactly aligned with the desired mark on the stop holder scale.

5. Tighten the thumbwheel to secure the stop holder in place.

6. The arc is now fully assembled. The stop insert 21 and guide insert 22 of the selected instrument can now be inserted into the collars. See User's manual for selected instrument!



Removing of the Arc

Remove the Arc from the Frame in the reverse of that when securing the Arc.

Disassembly

Disassemble the Arc in the reverse of the assembly procedure.

Care & maintenance

For detailed instructions read Leksell® Multi Purpose Stereotactic Arc Instructions for Use.