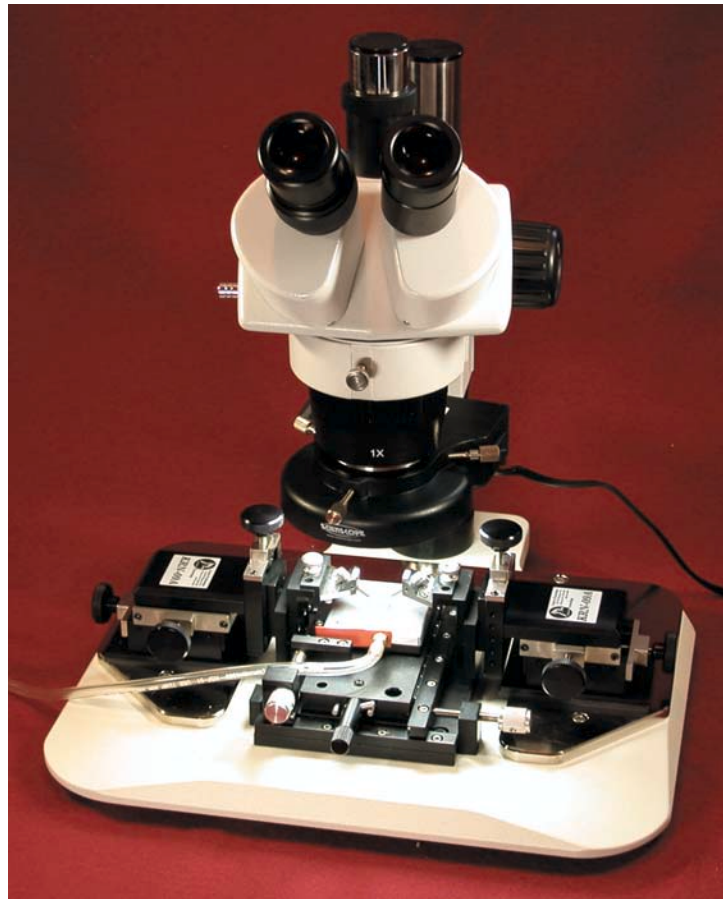


Jmicro Technology

LMS-2709



LMS-2709 General Instructions

Introduction

The LMS-2709 is usually supplied with the items illustrated in the above picture, including GGB ECP18 probes and 12" cables. Calibration substrates and additional positioners are available options. Unpacking information is found on the pages following this introduction.

The Lab (RF) Microprobe Station is a useful and versatile piece of laboratory equipment. Only the basic features are reviewed here.

Positioners

Positioners have X, Y, and Z adjustment. Gross placement adjustment of X and Y axis, to center probe movement in the field of view of the microscope entails lifting the positioner off the platten and moving the positioner to the appropriate 'X-Y' region. Optional miniature magnetic mount positioners can be placed on the nickel plated steel platten.

Probes

The LMS-2709 is designed to use probes from GGB Industries with a 'DP' style mounting. Also Model 7/10/12 Style 80

ESD & Grounding

The LMS-2709 is isolated from the lab bench surface by 'rubber' feet. For ESD protection the base deck can be connected to ground by inserting a 'banana plug' into an unused hole on the base and connecting the wire to lab bench 'ground'. Stage is electrically connected to the base deck. Positioners and Chuck are isolated from stage.

Microscope

Microscope is a switched objective stereo zoom with 1X or 3X object magnification power. With the standard 10XWF eyepieces, total magnification is 10X/30X.

Important

Do not attempt to disassemble spring and slide assembly of positioners. Do not lift unit by any of the 'knobs' on translation stages or positioners. Permanent damage may result. Consult factory for repair or servicing of these items. (503)614-9509 service@jmicrotechnology.com

Unpacking and Assembly Instructions



1) LMS-2709 packaged in storage case. Case contains base deck, positioners, probes and microscope.



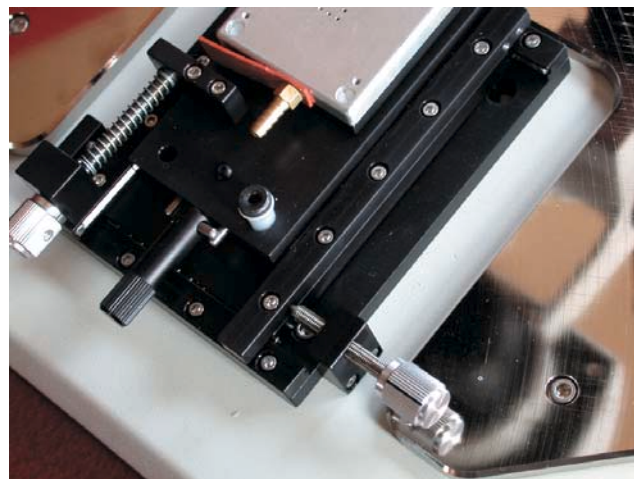
2) Begin by opening case. Remove base deck from left side of case by grasping right side of base deck by black ring and lifting out from box. Microscope stand post and fluorescent illuminator are beneath base deck



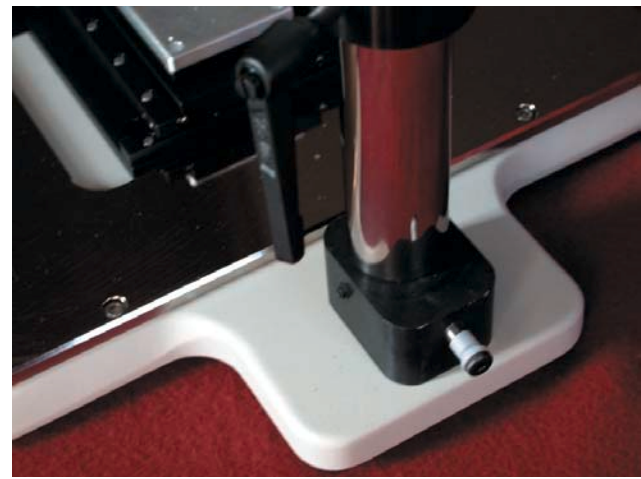
3) KRN-09A positioners are shipped and stored with x-y-z slides in 'far' position (knob screwed fully clockwise).



4) Install microscope stand post into black ring, hand tight. Position safety ring approximately 3" above black ring with locking handle pointed down.



5) Safety Stage Lock Screw! Remove from stage. Must be reinstalled in stage before storage or shipping.



6) Install Safety Stage Lock shoulder screw in microscope post mounting block to lock pole and to store shoulder screw.



7) Remove lens cap from objective



8) Position fluorescent ring illuminator on objective ring.
Tighten the three(3) thumbscrews securely.



9) Mount microscope and rack onto stand.



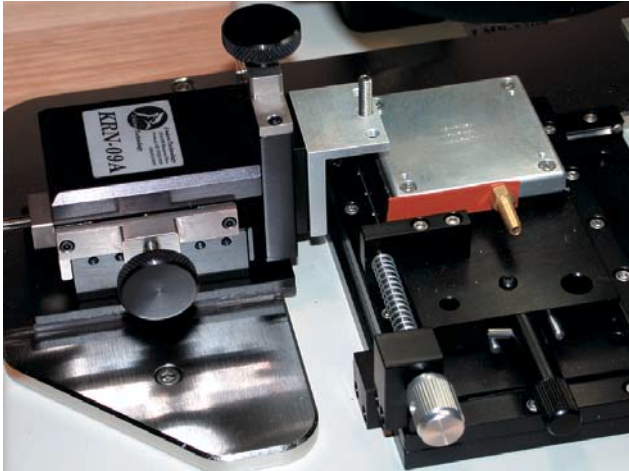
10) Install screw-in top cap on post.



11) Install 10XWF eyepieces into microscope.



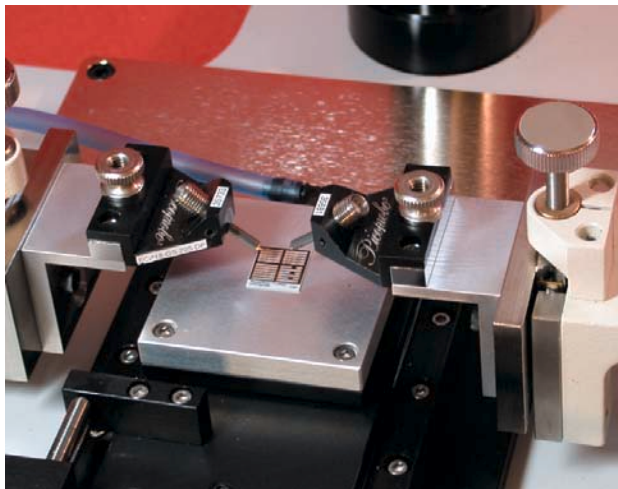
12) Optional magnetic mount DC positioners attach to platten.



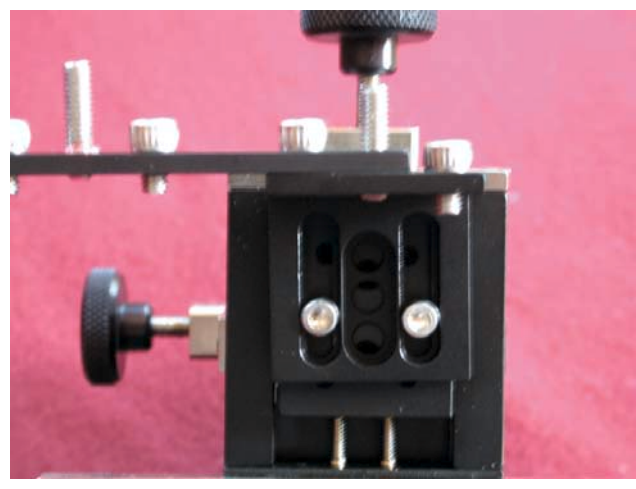
13) Align magnetic mount on platten approximately in-line with the microscope center of view axis.



14) Open probe box and remove probe by removing 8-32 thumb nut.



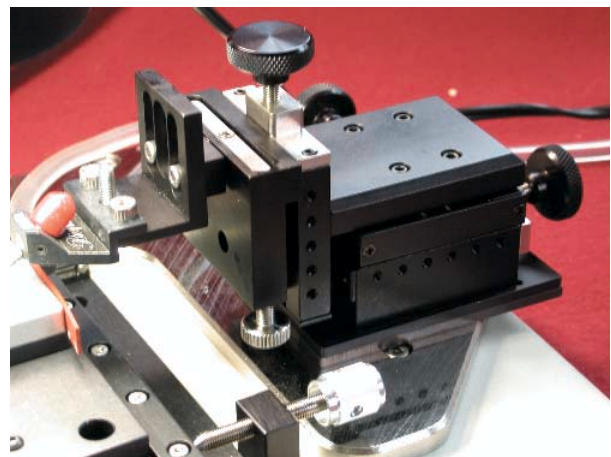
15) With Z-axis in highest up position, mount probe onto positioner with space block using the 8-32 thumb nut supplied with probe (or 2 ea. 8-32X1/4 SHCSS supplied)



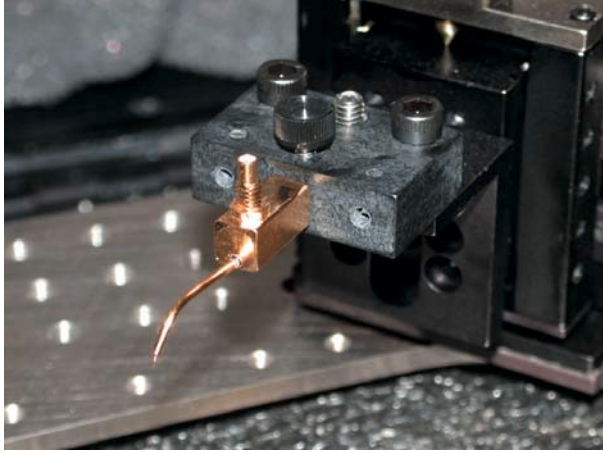
16) Probe mount height adjustable with slotted holes.



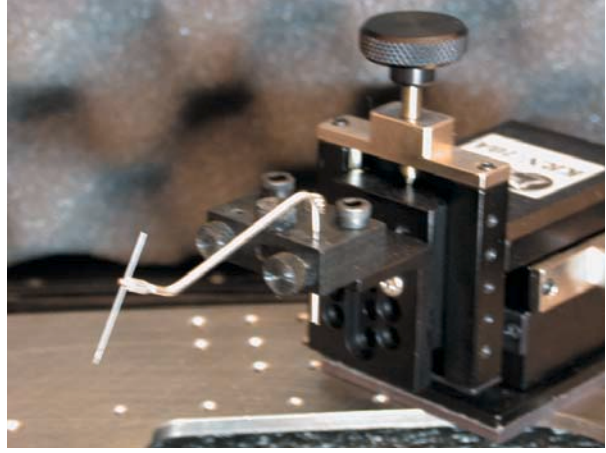
17) Four orthogonal probes are possible with 'offset' brackets



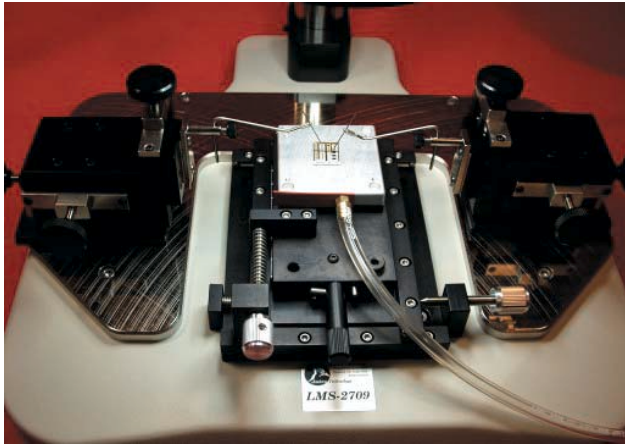
18) Optional KAP (Knob Adjust Planarity) module installs on front of KRN-09S.



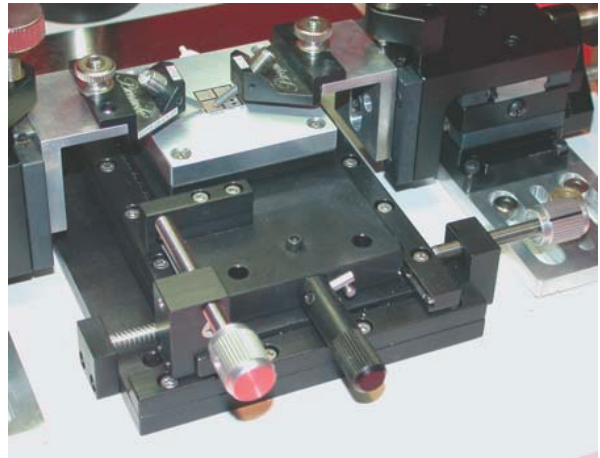
17) Optional Coaxial or Triaxial probes from American Probe Technologies™ mount on KRN-09S with adapter bracket.



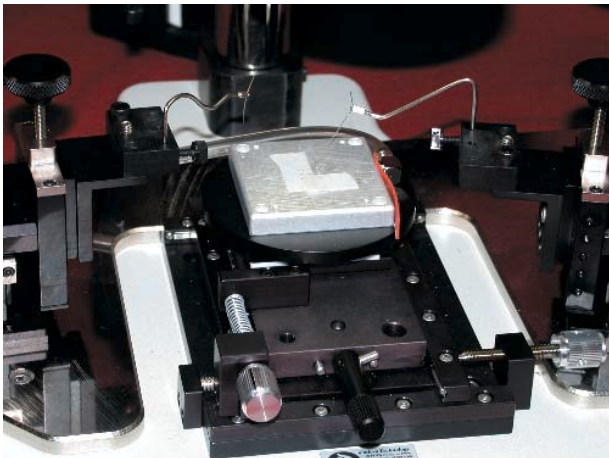
18) Needle holder and probe needles mount on KRN-09S with adapter bracket.



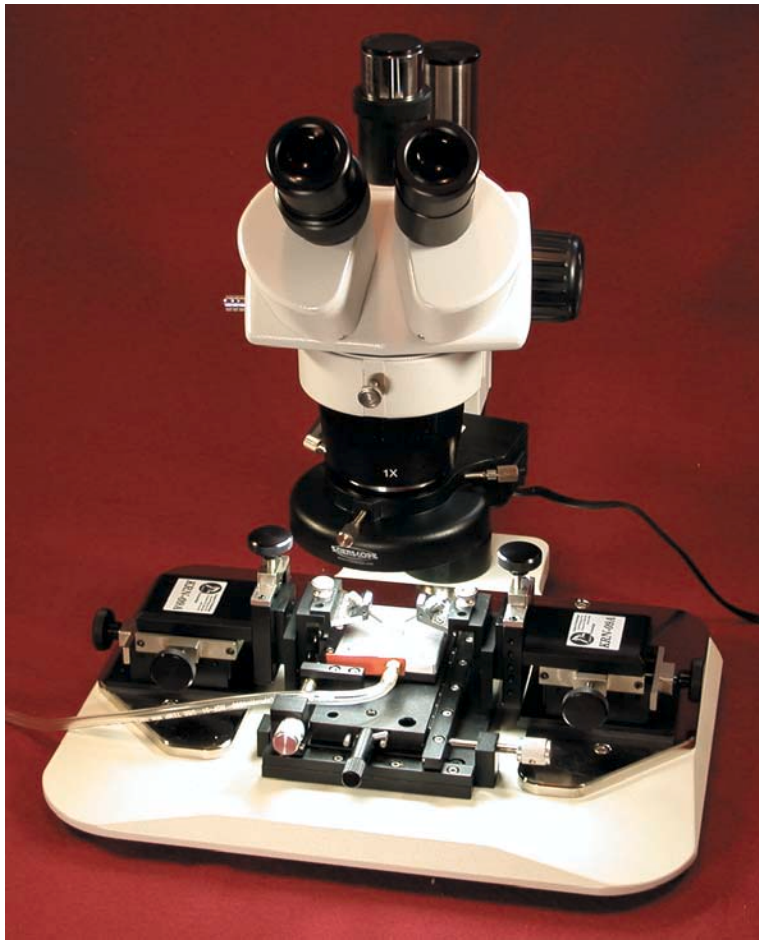
19) Alternative KRN-NM "needle holders on KRN-09S.



20) X-Y Translation stage has 1" of travel in each axis. Chuck is in up 'contact' position with knob turned to stop clockwise. (Be sure to remove the locking screw used secure during shipping before use)



21) Optional LMS-04 Rotating Stage Adapter on X-Y Translation stage. Rotation is full 360 degrees (limited by vacuum hose)



Lab (RF)Microprobe Station set up complete