



INSTRUCTION MANUAL

XU-5

Open Frame Board Holder with
X-Y micrometer positioning of PCB for fine adjustment



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I. INTRODUCTION

- Attaches to all X-KAR Bases or can be used as a free standing X-Y precision positioning stage
- Open Frame construction for use with under board pre-heaters
- Stainless steel base
- Quick approximate alignment in both axis with convenient half-turn blocking mechanism
- Fine X, Y adjustment (up to 1/2" or 10mm) with precision micrometers
- Horizontal undercut to secure top of the PCB always on the same level
- Spring loaded holding mechanism on one side of the board holder for easy replacement of boards



FIG. 1 VIEW OF THE SYSTEM

II. SAFETY

The purpose of this "SAFETY" section is to inform the users of the heading guidelines used in this manual to indicate special Notes, Cautions, Warnings or Dangers. Also included are precautions, which must be observed when operating or servicing this product.

These "NOTES", "CAUTIONS", "WARNINGS" and "DANGERS" are inserted in this manual whenever deemed necessary. They appear in a blocked off form with outline and a shaded background to highlight the information as shown below.

NOTE
XX

NOTE

Used to indicate a statement of company recommendation or policy. The message may relate directly or indirectly to the safety of personnel or protection of property. NOTE is not associated directly with a hazard or hazardous situation and is not used in place of "CAUTION", "WARNING" or "DANGER".

CAUTION

Used to indicate a hazardous situation, which may result in minor or moderate injury. May also be used to alert personnel to conditions, procedures and practices which, if not observed, could result in damage to or destruction of the product or other equipment.

WARNING

Used to define additional information, that if not closely followed may result in serious damage to equipment and represent a potential for serious personnel injury.

DANGER

Defines additional information, that if not closely followed may result in severe personnel injury or death. Danger is not used for property damage unless personal injury risk is present.

PRECAUTIONS

The following are general safety precautions, which personnel must understand and follow when using or servicing this product. These precautions may or may not be included elsewhere in this manual.

CAUTIONS

1. Utilize all standard electrical safety precautions when using this or any other electrical equipment.
2. Always use this system in a well-ventilated area. A fume extraction system (such as those available from X-KAR) is highly recommended to protect personnel from solder flux fumes.
3. Exercise proper precautions when using chemicals (e.g., solder paste). Refer to the Material Safety Data Sheet (MSDS) supplied with each chemical and adhere to all safety precautions recommended by the manufacturer.

DANGER

POTENTIAL SHOCK HAZARD – All repairs made on this product should be performed by a qualified service personnel only. Line voltage parts will be exposed when equipment is disassembled. Service personnel must avoid contact with these parts when troubleshooting.

NOTES

To insure continued peak performance, use genuine X-KAR replacement parts.

III. PACKAGING

The box contains as follows:

1. XU-5 Open Frame Board Holder with X-Y micrometer positioning of PCB for fine adjustment
2. Manual
3. Guarantee card

IV. UNPACKING

Prior to use of the system, please check if the system is complete. Should you notice that any items are missing, please notify us, giving the details of model number, voltage, date of purchase, where purchased and what is missing. Missing items must be reported within 7 days from the date of purchase.

WARNING
When unpacking, please be careful and read the manual prior to use the system.

V. SET-UP AND INSTALLATION

The system should be located on a rigid and stable work surface. Please note that you will need some extra space on the sides of the system for your other Rework/Repair Tools.

It can be used as a free standing X-Y precision positioning stage or can be attached to X-1000H or X-ServiCE-H.



XU-5 with X-1000H

VI. SYSTEM DESCRIPTION and APPLICATION

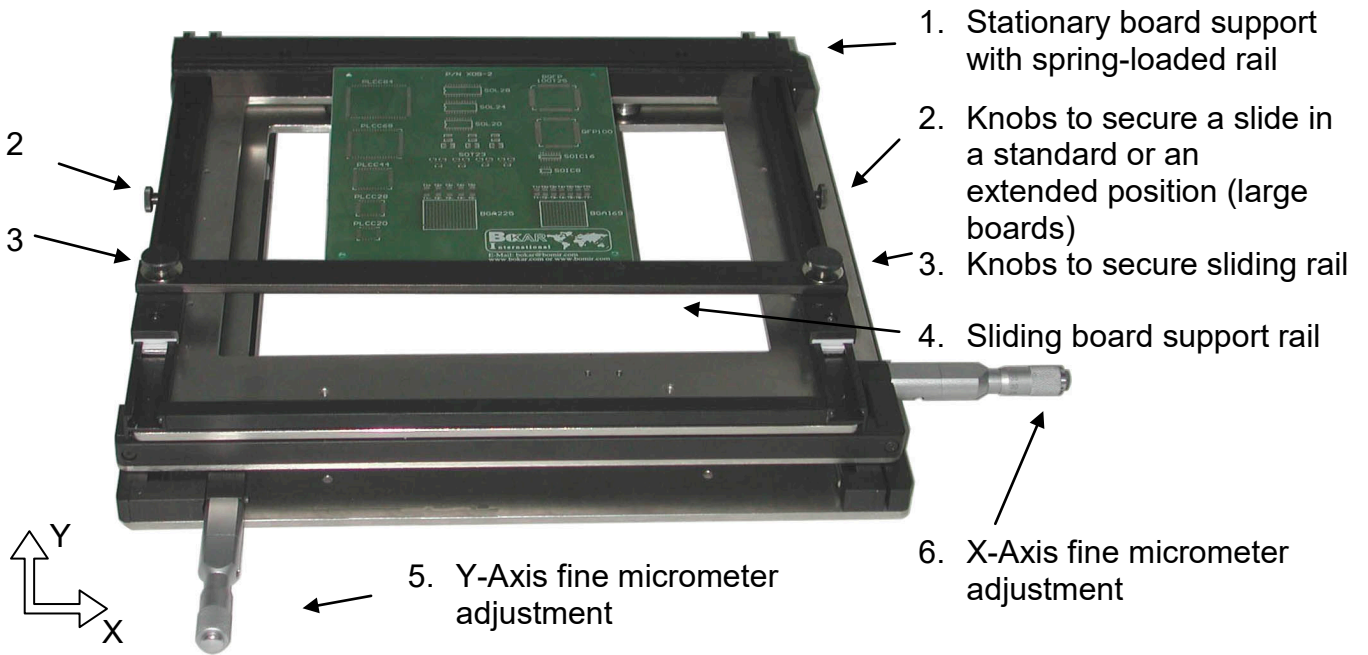
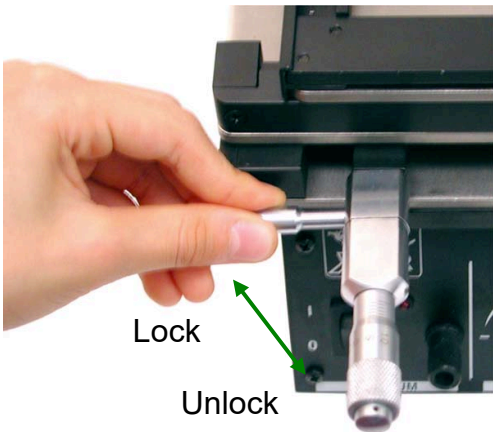
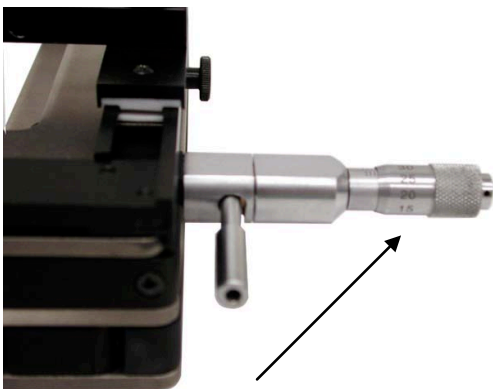


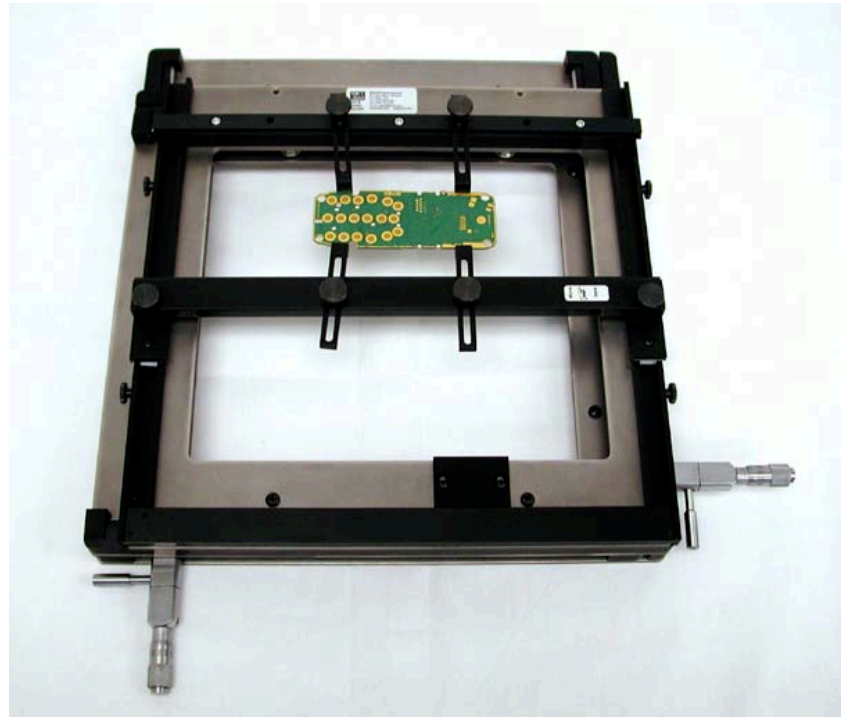
FIG. 2 XU-5 with sample PCB



X and Y axis fast adjustment blocking lever



X and Y axis fine adjustment micrometer



Irregular Board Supports

Example of an application of XU-5

X-FineRework-L - Precision Rework System to handle Large and Medium Size Boards

XK-3

Tool Holder with Z-Axis Control for left and right-handed operators and Fine Tool Rotation

Focus "+,,
Programmable Hot Air Rework

XNH-1
Nozzle Holder

XVCS-5
Vacuum Cup Set
(5 pieces- 3 sizes)

XU-5
Board Holder with Precision X-Y micrometer adjustment

X-1000
Preheater base

XNR-1 and XNR-2
Nozzle Removal Tools

XT-1
Vacuum Pad Insertion/Removal Tool

VII. TECHNICAL SPECIFICATIONS

Max board dimensions	330 mm (12.9") x open end
Height from the bottom of the feet to the bottom of the PCB	56 mm (2.2")
Limit of fine adjustment	1/2" (10 mm)
PCB Holder dimensions	400 mm x 435 mm x 66 mm 15.75" x 17.13" x 2.6"
Weight	15 kg (33.1 lbs)
Shipping Package Weight	17 kg (37.6 lbs)

VIII. RECOMMENDED EQUIPMENT for use with XU-5

XU-5 Open Frame Board Holder with X-Y micrometer

1. **X-1000H or X-1000SH** Convection Pre-heater
2. **X-ServiCE-DH** SMT Rework/Repair Unit with integrated Preheater
SMT Rework/Repair Unit designed to allow a novice to Rework or Repair complicated SMT, multi-layer PCB's quickly, without a danger of damage to the board or components.
3. **XK-1, XK-2 or XK-3** - Adjustable Tool Holder for precision movement of the tool up and down. XK-3 tool holder includes the rotation stage allowing for theta adjustment (rotation) of the tool.



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