

INSTRUCTIONS

EM-SRT10

SCAN ROTATION & TILT CORRECTION UNIT

No. IEM1200EX-SRT10
(EM832007)

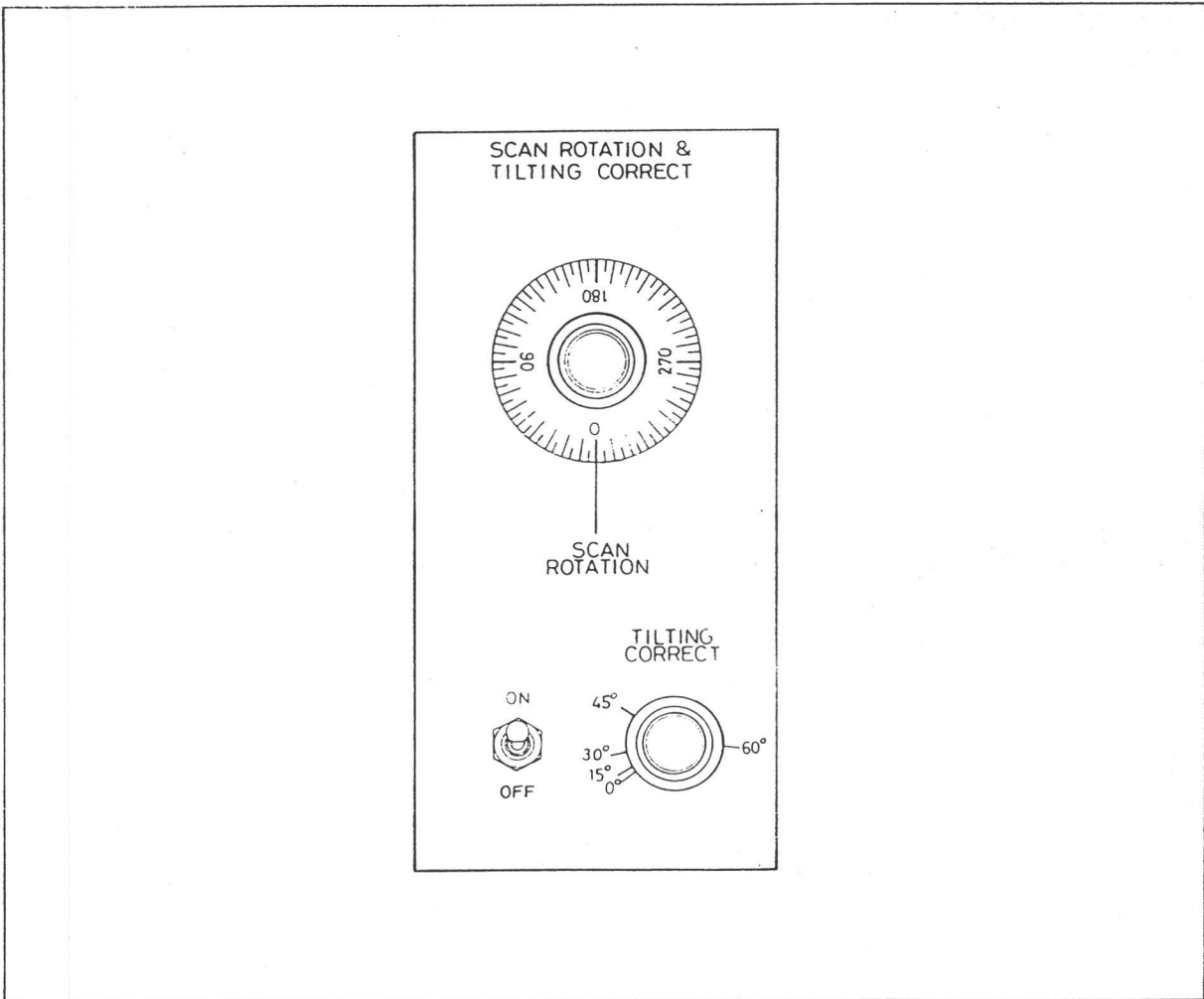


Fig. 1 Scan rotation & tilt correction unit

1. GENERAL

This unit permits to rotate the scanning direction of the electron probe on the specimen surface and to correct the image foreshortening created by tilting a specimen. Accordingly, the specimen image can be optionally orientated without rotating the specimen. Furthermore, image foreshortening due to specimen tilting can be corrected by reducing the beam deflection angle in a direction perpendicular to the tilt axis; i.e., by increasing the magnification in said direction.

2. SPECIFICATIONS

- Scan rotation: 360°, continuously variable.
- Tilt correction: 0 to 60°, continuously correctable (distortion: less than 5%).
- Power: DC ±20 V, 60 mA; DC ±10 V, 150 mA.
- Operating temperature: 0 to 50°C.
- Dimensions: 70 mm (W) × 300 mm (D) × 150 mm (H).

3. COMPOSITION

- Scan rotation & tilt correction unit 1
- Parts for EM-ASID10 modification 1 set

4. DESCRIPTION OF CONTROLS

- ON/OFF switch
Power switch.
- SCAN ROTATION knob
Changes the direction of the electron probe scanning.
- TILTING CORRECT knob
Corrects image foreshortening due to specimen-tilting.

5. INSTALLATION

1. Confirm that the power switch of the EM-ASID10 has been turned off.
2. Insert the scan rotation and tilt correction unit into the EM right control panel housing.
3. Turn on the EM-ASID10 power switch.

6. OPERATION

6.1 Scan rotation

1. Set the ON/OFF switch at ON.
2. Use the SCAN ROTATION knob to change the CRT image as desired.

6.2 Tilt correction

Turn the TILTING CORRECT knob so that the graduation on the knob corresponds to the X-tilt knob setting (that is, the specimen tilt angle).

When the ON/OFF switch is set at OFF, only the facility for correcting foreshortening functions; when the ON/OFF switch is set at ON, both the foreshortening correction and scan rotation facilities function.



NOTICE

- The information in this manual, which is based on specifications believed correct at the time of publication, is subject to change without notice due to improvements made in the instrument.
- In order to assist us in preparing future documentation, please advise your nearest JEOL service center if you find any errors in this manual.

Kindly note that while the instrument can be used in combination with various attachments to serve a number of purposes, this special feature of the instrument is only briefly described in this manual, which chiefly provides information on basic operations.

- This manual has been prepared using a desktop publishing system in which photographs and drawings are read by the use of an image scanner. Therefore, details of some of the photos may not be as clear as those of the originals.

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