

## SECTION III

# PREPARATION FOR USE AND SHIPMENT

### 3.1 PREPARATION FOR USE

#### WARNING

*Read the Safety Summary page in the front part of this manual before using the instrument.*

**a. Unpacking the Instrument.** No special unpacking procedures are required.

**b. Initial Inspection.** This instrument was inspected and adjusted before shipment. Upon receipt, inspect for physical damage and missing accessories. The accessories, which are shown in Figure 8-2 are stored in the front cover.

**c. Faceplate Filter Installation.** The instrument was shipped with either a clear filter (faceplate protector) or blue filter installed. The blue filter is used to reduce light reflections and increase display contrast under high ambient light conditions. To exchange the filters refer to Figure 3-1.

**d. Carrying Handle Positioning.** The instrument handle can be positioned for carrying or as a tilt stand. There are several detent positions provided for convenient carrying or viewing. The instrument may also be set on its rear-panel feet for operation or storage. To position the handle (see CAUTION below), press in at both pivot points (see Figure 3-2) and position the handle to the desired position, then release the pivot points.

#### CAUTION

*When positioning the handle as a tilt stand, be sure it is locked into a detent before letting the handle support the instrument. Otherwise, the tilt stand may collapse causing instrument damage.*

**e. Operating Voltage Selection.** The instrument will operate from either a 116 volt ac or 232 volt ac nominal line voltage source with ranges as indicated on the rear

panel. Source selection is made with the LINE RANGE Selector on the rear panel (see Figure 3-3).

#### CAUTION

*This instrument may be damaged if operated with the LINE RANGE Selector set to the incorrect position.*

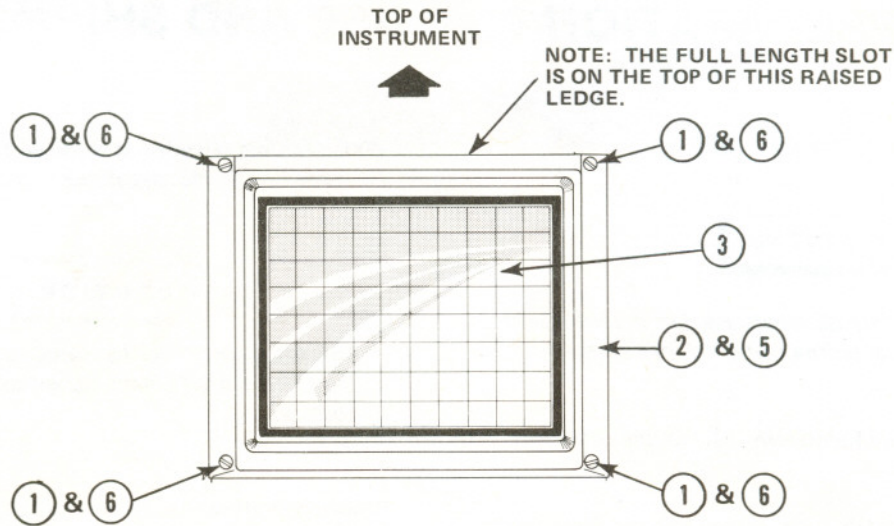
Before operating the instrument, perform the following line range selection and fuse verification procedures:

#### WARNING

*To prevent electrical shock hazards when changing line voltage ranges or checking fuses, disconnect the power cord from the power source.*

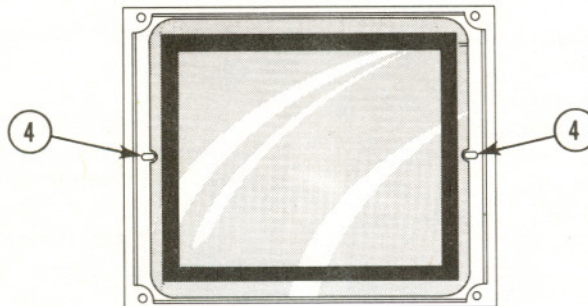
- (1). Disconnect the instrument from the power source.
- (2). Using a small blade screwdriver or other small blunt item (similar to a dull pencil), slide the LINE RANGE Selector up or down to the desired position (see Figure 3-3.)
- (3). Change the line cord plug to match the power source receptacle or use a 116 to 232 volt adapter.
- (4). Change the line fuse to the correct value. The correct fuse value for 116 volt operation is 1 A/250 volt, and for 232 volt operation is 0.5 A/250 volt.

**f. Power Cord Information.** This instrument has a detachable three wire power cord with a polarized plug for connection to the power source. The grounding terminal is directly connected to the instrument chassis. When not being used, the power cord may be removed and placed in the front cover.



REMOVAL INSTRUCTIONS

- 1 UNSCREW FOUR CORNER THUMBSCREWS (DO NOT UNSCREW COMPLETELY OUT OF PLASTIC IMPLOSION RETAINER).
- 2 PULL IMPLOSION RETAINER WITH FILTER FORWARD AWAY FROM CRT FACEPLATE.
- 3 REMOVE FILTER BY LIFTING IT OUT OF THE IMPLOSION RETAINER.



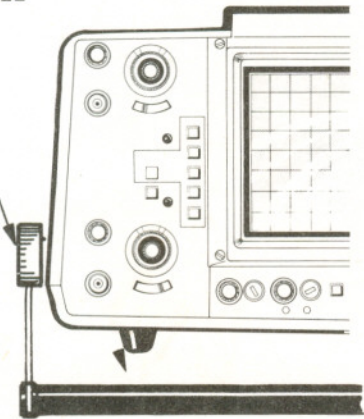
INSTALLATION INSTRUCTIONS

- 4 INSTALL FILTER IN NOTCHES ON IMPLOSION RETAINER WITH THE BLACK MASK AWAY FROM THE CRT.
- 5 POSITION IMPLOSION RETAINER ON CRT FACEPLATE SO FULL LENGTH SLOT IS TOWARD THE TOP OF THE INSTRUMENT.
- 6 SCREW IN THE FOUR CORNER THUMBSCREWS.

2237-2A

Figure 3-1. Removal and installation of faceplate filters.

PRESS IN ON PIVOT POINTS  
BOTH SIDES TO POSITION  
CARRYING HANDLE



2237-3

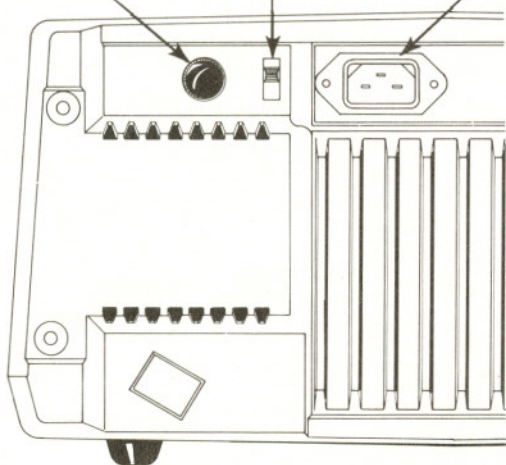
Figure 3-2. Carrying handle positioning.

**WARNING**

*This instrument is intended to be operated from a single phase power source. Operation from other power sources such as phase-to-phase on a three wire system is not recommended.*

**3-2. OPERATING TEMPERATURE.** This instrument is cooled by natural convection; therefore, adequate clearance (at least one inch) should be maintained around the case. The clearance provided by the feet on the rear panel must be maintained to prevent power supply overheating. A thermal cutout inside the instrument provides overheating protection and disconnects power if the internal temperature exceeds a safe operating level. Power is automatically restored when the internal temperature returns to a safe operating level.

FUSE HOLDER      LINE RANGE SELECTOR      POWER CORD CONNECTOR



2237-4

Figure 3-3. Power section of rear panel.

**CAUTION**

*To prevent damage to the instrument when it continually shuts down due to overheating, it should be turned-off and referred to maintenance personnel.*

**3-3. PREPARATION FOR SHIPMENT.** For shipment of the instrument, refer to the current edition of MIL-P-116 and MIL-STD-794 for preservation and packaging instructions and methods.