

Chapter 2
INSTALLATION
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UNPACKING AND REPACKING

1. Retain the container, packing material and the packing instruction note (if included) in case it is necessary to reship the instrument.

2. If the instrument is to be returned for servicing attach a label indicating the service required, type or model number (on rear label), serial number and your return address. Pack the instrument in its original container using the materials supplied and in accordance with the packing instruction note. If an instruction note has not been included the method of packing is probably self evident because of the shape of the materials used. In general the procedure will be as follows:

- (1) Place a.c supply lead in suitable plastic bag and tape it to the instrument's rear panel.
- (2) Place the instrument within its plastic cover.
- (3) Ensure that the padded fitting is in place within the inner carton and slide the instrument in, rear panel first, leaving the front panel exposed at the open end.
- (4) Fit the separate front panel protecting cover over the panel and close and seal the inner carton.
- (5) Place one of the moulded plastic cushions in the bottom of the outer carton and insert the inner carton to locate in the cushion recess.
- (6) Place the other plastic cushion over the other end of the inner carton and close and seal the outer carton.
- (7) Wrap the container in waterproof paper and secure with adhesive tape.
- (8) Mark the package FRAGILE to encourage careful handling.

Note ...

If the original container and/or materials are not available split the instruments into two units and use a strong double-wall carton packed with a 7 to 10 cm layer of shock absorbing material around all sides of each one to hold it firmly. Protect the front panel controls with a plywood or cardboard load spreader; a rear load spreader is also advisable.

MOUNTING ARRANGEMENTS

3. Excessive temperatures may affect the instrument's performance; therefore, completely remove the plastic cover, if one is supplied over the case. Ensure that the fan air vent and other ventilation holes are not obstructed otherwise the maximum temperature specification is reduced resulting in imperfect operation. Avoid standing the instrument in the vicinity of large transformers or other possible magnetic fields or where X-rays are present. If the source of such fields cannot be isolated Mumetal shields should be used to provide the necessary screening.

RACK MOUNTING

4. The instruments are normally supplied ready for bench mounting. A rack mounting kit, consisting essentially of two pairs of mounting brackets a front panel and a front panel support, is available as an optional accessory (Part No. 54127-305R). Fitting instructions are provided with the kit. Generally the brackets are fitted as follows:

- (1) Temporarily remove the bottom cover of the 2382 and remove the feet.
- (2) Replace the bottom cover.
- (3) Remove the trim strip in the recess of each of the front panel handles.
- (4) Fit the brackets in these recesses and secure by fitting the M4 screws provided into the tapped holes.

Slides or runners must be fitted to give support to the rear of the instrument. By removing the carrying straps M4 tapped holes are revealed which can be used for fixing an adapter plate to which runners may be secured.

SAFETY TESTING

5. Where safety tests on the a.c supply input circuit are required, the following procedures can be applied. These comply with BS4743 and IEC Publication 348. Tests are to be carried out as follows and in the order given, under ambient conditions, to ensure that input circuit components and wiring (including ground connections) are safe.

- (1) Ground lead continuity test from any part of the metal frame to the bared end of the flexible lead for the ground pin of the user's mains plug. Preferably a heavy current (about 25 A) should be applied for not more than 5 seconds.

Test limit: not greater than 0.5 Ω .

- (2) 500 V d.c. insulation test from the a.c. supply circuit to ground.

Test limit : not less than 2 M Ω .

CONNECTING TO SUPPLY

6. Before connecting the instrument to the a.c. supply check the position of the voltage selector switch. The range selected can be seen on the side of

the switch situated on the rear panel (refer to Chap. 3, Fig. 2). The instrument is normally dispatched set to the 210-240 V range. To select the 105-120 V range operate the LINE VOLTS SELECTOR switch and change the value of the a.c. supply fuses to that shown below.

110 V range 4 A-T (4 amp time lag)
230 V range 2.5 A-T (2.5 amp time lag)

Fuses are 20 mm x 5 mm cartridge type.

7. The a.c. supply cable is fitted at one end with a female plug which mates with a connector at the rear of the instrument. When fitting a power plug ensure that conductors are connected as follows:

Ground	-	Green/Yellow
Neutral	-	Blue
Line	-	Brown

Any interruption of the ground conductor is liable to make the equipment dangerous.