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TEST AND MEASURING EQUIPMENT

OSC 90

OSCILLOSCOPE PM 3244.

Already published:

- Cd 895, Cd 911, Cd 913

OSC 20, OSC 33, OSC 34 and OSC 38 belonging to manual 9499 440 17002 for

the PM 3244 up to version /08.

- Manual 9499 443 00702 for the PM 3244/08

Subject:

Modifications to manual 9499 443 00702 for the PM 3244/08 and following versions.

Contents:

1 Z-unit (unit 11 - B 1301)

2 EHT converter (unit 6 - R 1408).

3 Final Y amplifier (unit 13 - TS 604, TS 608).

4 Earthing of the rear cabinet-plate.

5 Trigger source selector (unit 16 - R 714).

6 Removing the carrying handle.

7 Front cover box.

8 Mains filter.

1. Z-unit (unit 11).

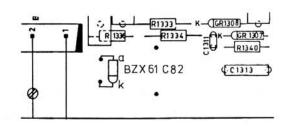
The neon-tube B 1301 (ZA 1004) is changed to: zenerdiode BZX 61 C 82 ordering number 5322 130 35005

This modification is introduced, because the neon-tube is no longer available.

When the neon-tube is ordered under ordering number 5322 131 90021, this tube will be delivered as long as it is available. After that the zenerdiode BZX 61 C 82 will be delivered.

If the neon-tube must be replaced by the zenerdiode, adapt and readjust the following:

- The zenerdiode must be mounted as indicated in fig. 1.



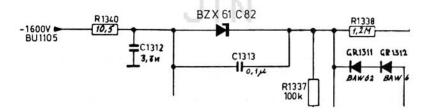


Fig. 1 Part of Z-unit (fig. 3.35 and 3.36 of the manual).

- To improve the Brilliance adjustment range of R 1327 the resistors R 1324 and R 1326 must be changed to:

R 1324 2k8

5322 116 55587

R 1326 2k67

5322 116 55616

- Readjust the intensity (R 1327) as described in section 3.7.4.2. of the manual.

2. EHT converter (unit 6)

To improve the performance of this unit resistor R 1408 is changed to 24 k9, ordering number 5322 116 54648

3. Final Y amplifier (unit 13)

The transistors TS 604 and TS 608 are changed to:

BFX 48 ordering number 5322 130 40208

This modification is introduced because the FW 5324 is no longer available.

4. Earthing of the rear cabinet plate.

The earthing of the rear cabinet plate is improved for safety purposes.

The rear cabinet plate must be mounted with two screws, toothed-rings and lock-washers on the cabinet.

5. Trigger source selector (unit 16).

To improve the adjustment range of R 705, resistor R 714 is changed to 1 k 1 ordering number 5322 116 54554

6. Removing the carrying handle.

When the carrying handle can not be removed as described in the PM 3244 manual, proceed as follows:

- 1. Remove the upper and lower cabinet plates.
- Remove the plastic strip which is snapped on to the grip.
- Remove the four screws which secure the grip to the brackets (these screws have been locked with a sealing varnisch).
- Depress the push-buttons in the brackets and turn the carrying handle as far as possible to the upper side of the oscilloscope.
- Keep the push-button of the right-hand bracket depressed and pull the bracket from its bearing 1)
- 6. Remove the grip from the remaining bracket.
- Depress the push-button of the left-hand bracket and turn the latter as far as possible to the lower side
 of the instrument.
- Keep the push-button depressed and pull the bracket from its bearing.

If it is impossible to remove the left-hand bracket in this way, remove also its bearing in a similar way as described in footnote 1).

- 1) With some instruments it may be impossible to remove the handle in the described way. This is due to an extra securing plate in the right-hand bearing. In that case, **DO NOT USE FORCE**, but work in accordance with the following procedure which replaces points 3, 4 and 5.
 - 3. Remove the two screws which secure the grip to the right-hand bracket.
 - Remove the two hexagonal bolts which secure the right-hand bearing to the side strip.
 - 5. Depress the push-button of the right-hand bracket and take the bearing from the bracket.

7. Front cover box.

The ordering number of the front cover box mentioned in the manual (page 123) belongs to the front cover of the PM 3240 and must be changed (for the PM 3244) to: 5322 447 94606.

8. Mains filter.

The mains filter unit (unit 3) given on page 156 of the manual is cancelled.

For the PM 3244 up to version 05, mains filter 5322 218 64045 must be used.

For the PM 3244/05 and following versions, mains filter FI 1801 ordering number 5322 121 44261 must be used.