

PHILIPS



**Instruction manual
Gerätehandbuch
Mode d'emploi et d'entretien**

**RF signal generator
HF Signal-Generator
Générateur des signaux de H.F.**

PM 5326

9452 053 26001



Figures

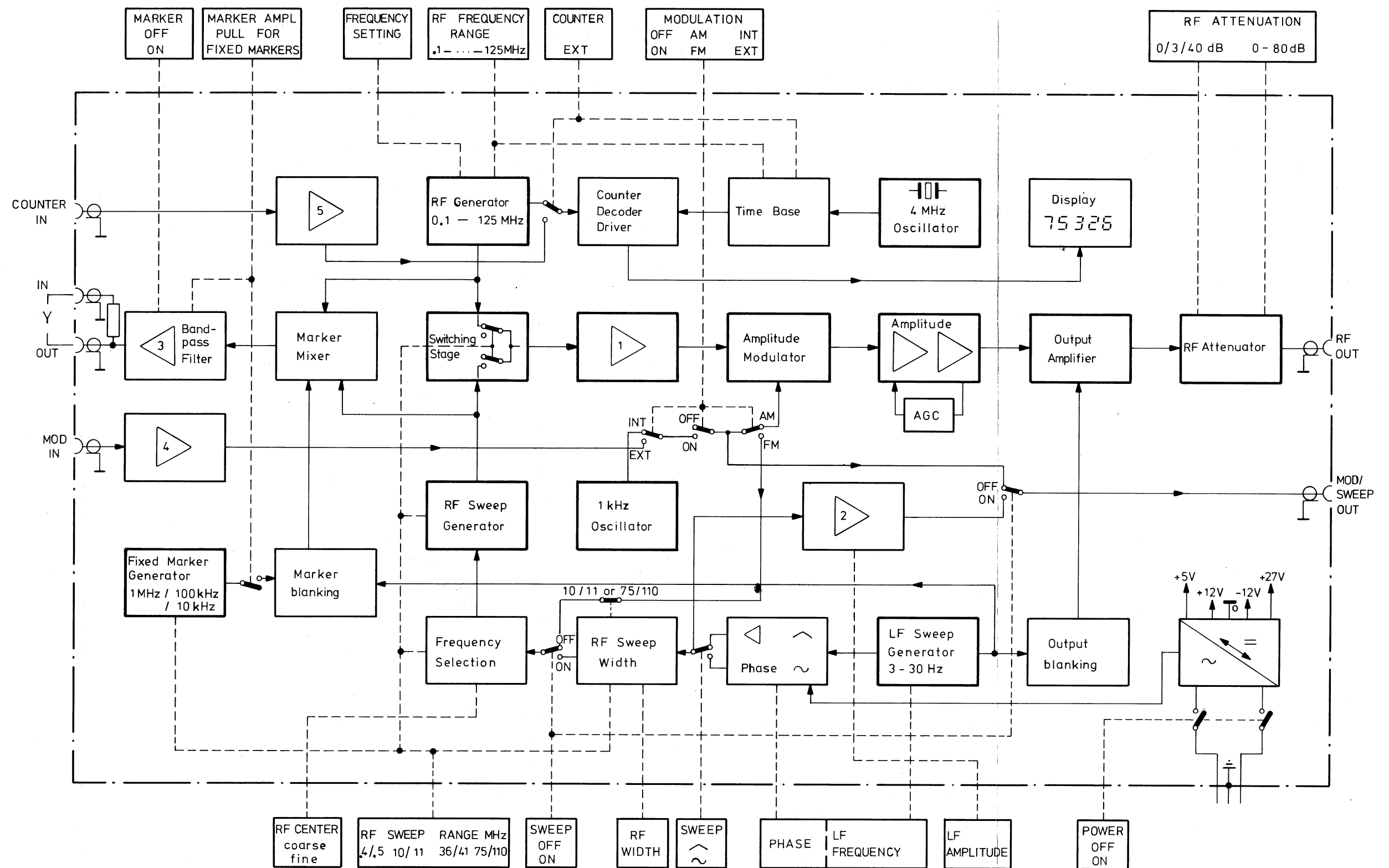


Fig. 1 Block diagram, complete
Blockschartbild, gesamt
Schéma synoptique

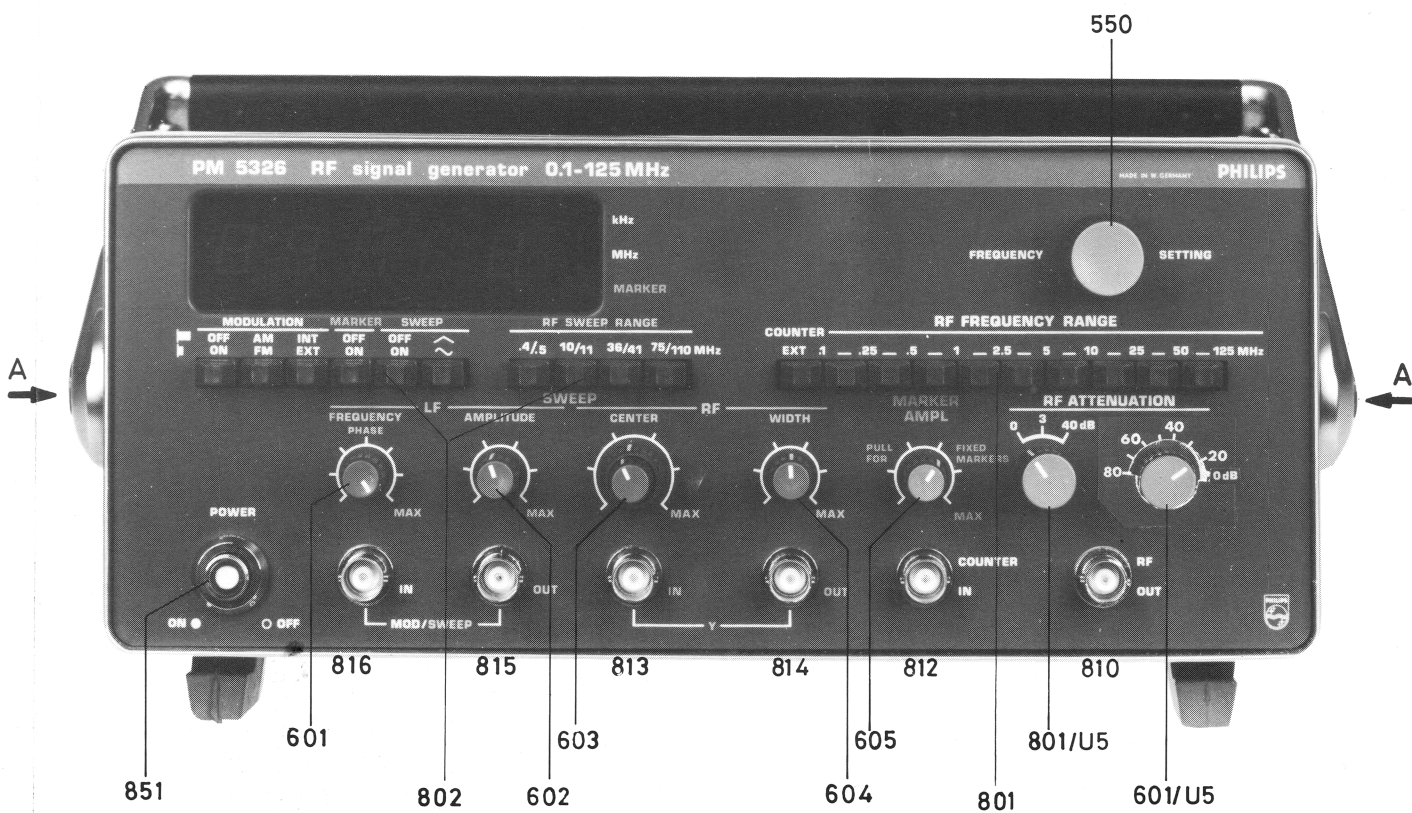
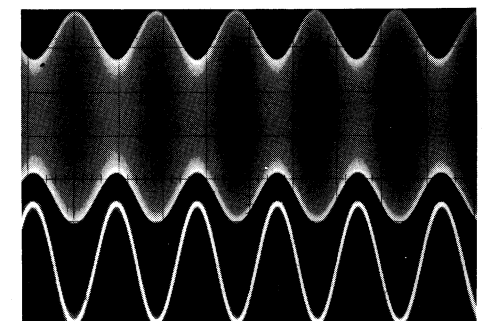
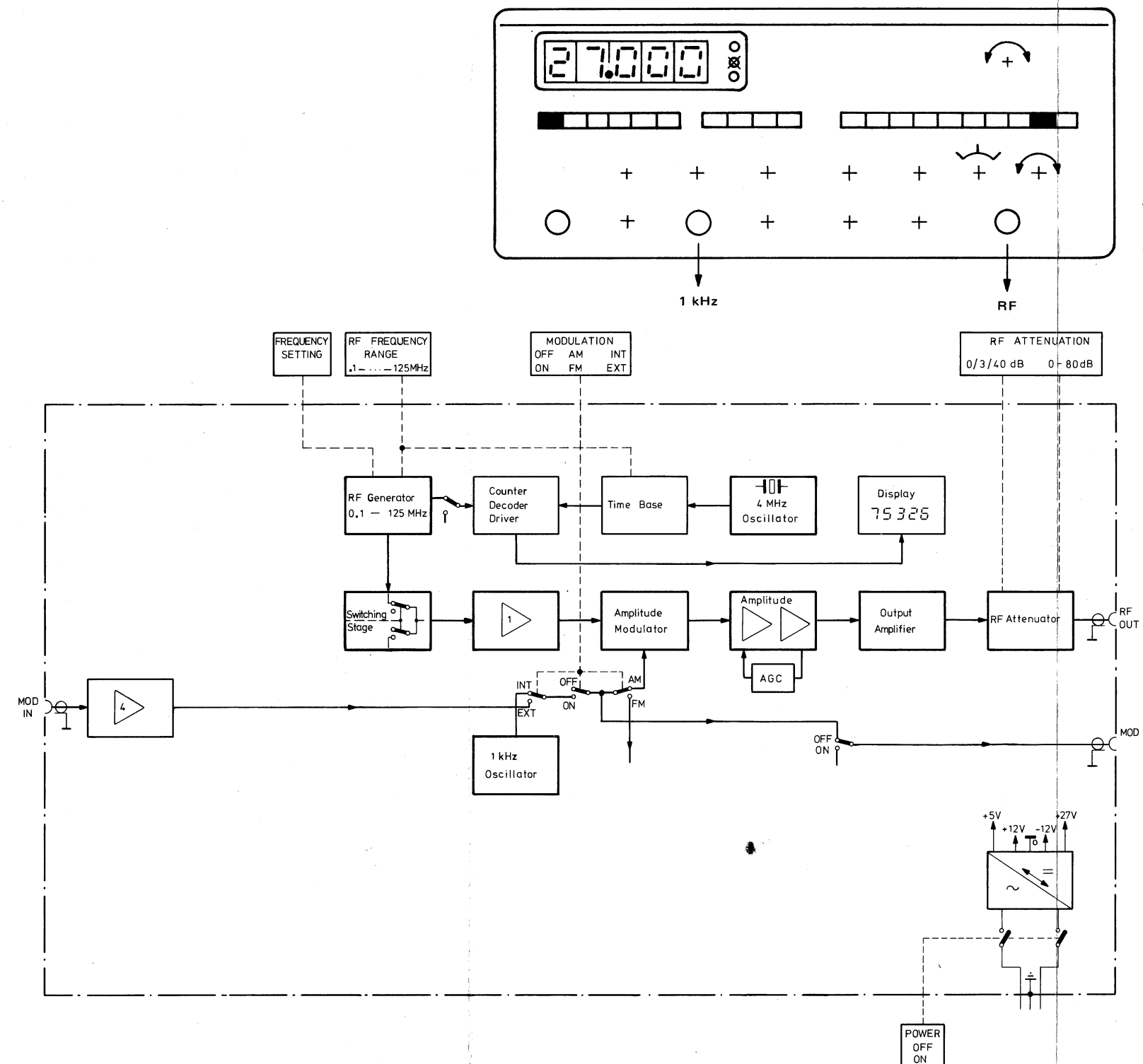
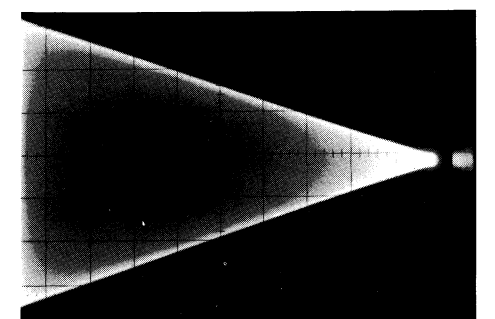
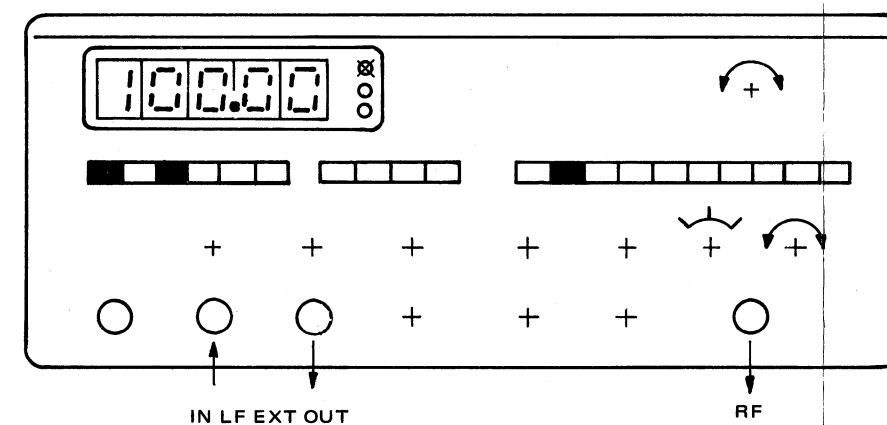


Fig. 2 Front view
Frontansicht
Face avant



Internal AM signal, 1 kHz and 30% modulation depth at a carrier frequency of 27 MHz.



External AM signal, 400 Hz and 100% modulation depth at a RF carrier frequency of 100 kHz.

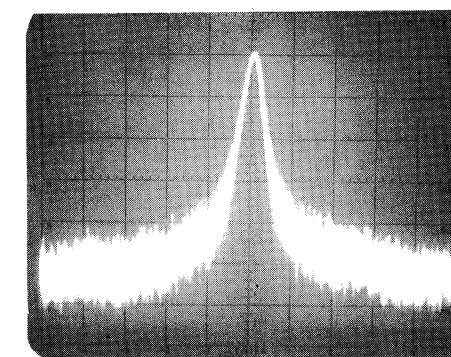
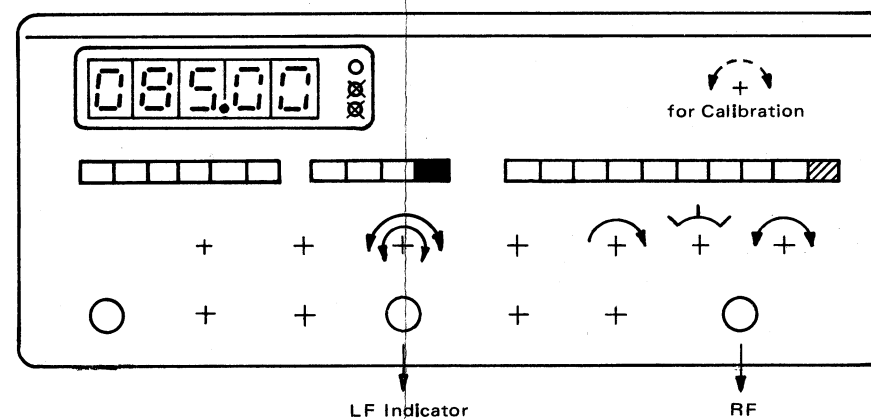
Fig. 3 Amplitude modulation
Amplitudenmodulation
Modulation d'amplitude

Calibration of the carrier frequency of the RF Sweep Generator (unit 8 not built in):

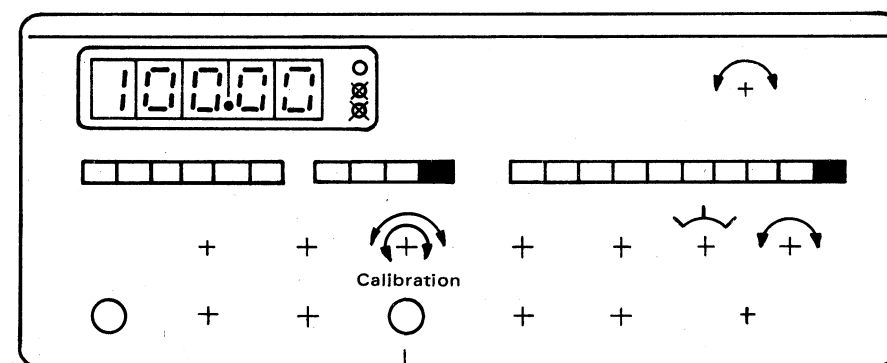
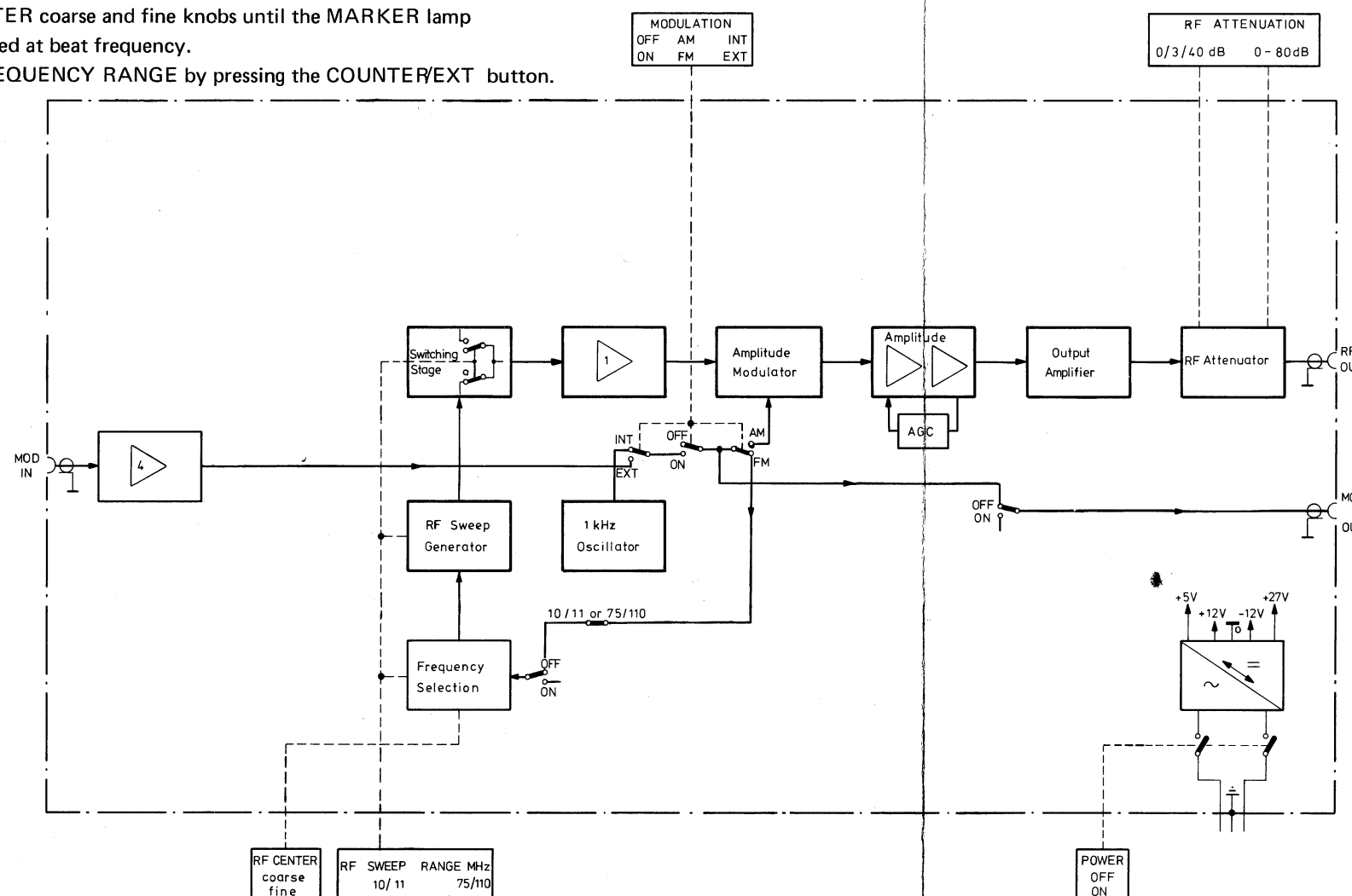
- Connect the LF indicator to the IN-Y or Y-OUT socket
- Press concerning buttons RF SWEEP RANGE and button RF FREQUENCY RANGE
- Adjust requested carrier frequency by FREQUENCY SETTING on the display
- Set LF indicator to maximum by RF CENTER
- Unlock button RF FREQUENCY RANGE
- Disconnect LF Indicator

Calibration of the carrier frequency of the RF Sweep Generator (unit 8 built in):

- Press only concerning buttons RF SWEEP RANGE and RF FREQUENCY RANGE.
- In instruments of the first series (up to LO 011100) additionally push the MARKER ON button.
- Adjust requested carrier frequency by FREQUENCY SETTING on the display.
- Turn RF SWEEP CENTER coarse and fine knobs until the MARKER lamp is flickering and dimmed at beat frequency.
- Unlock button RF FREQUENCY RANGE by pressing the COUNTER/EXT button.

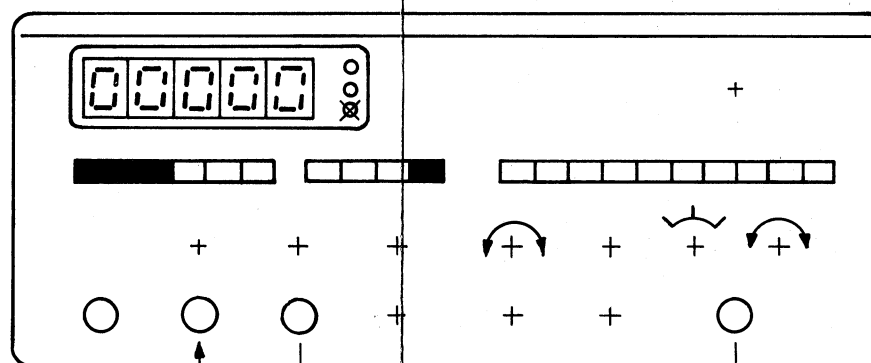


85 MHz unmodulated



see example above

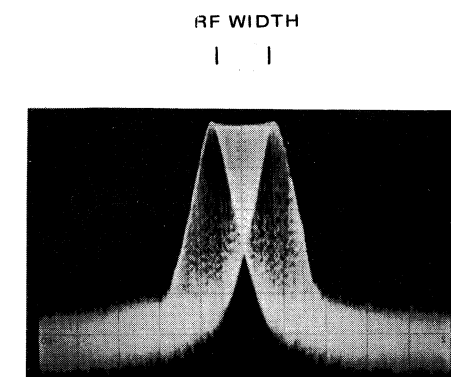
LF Signal



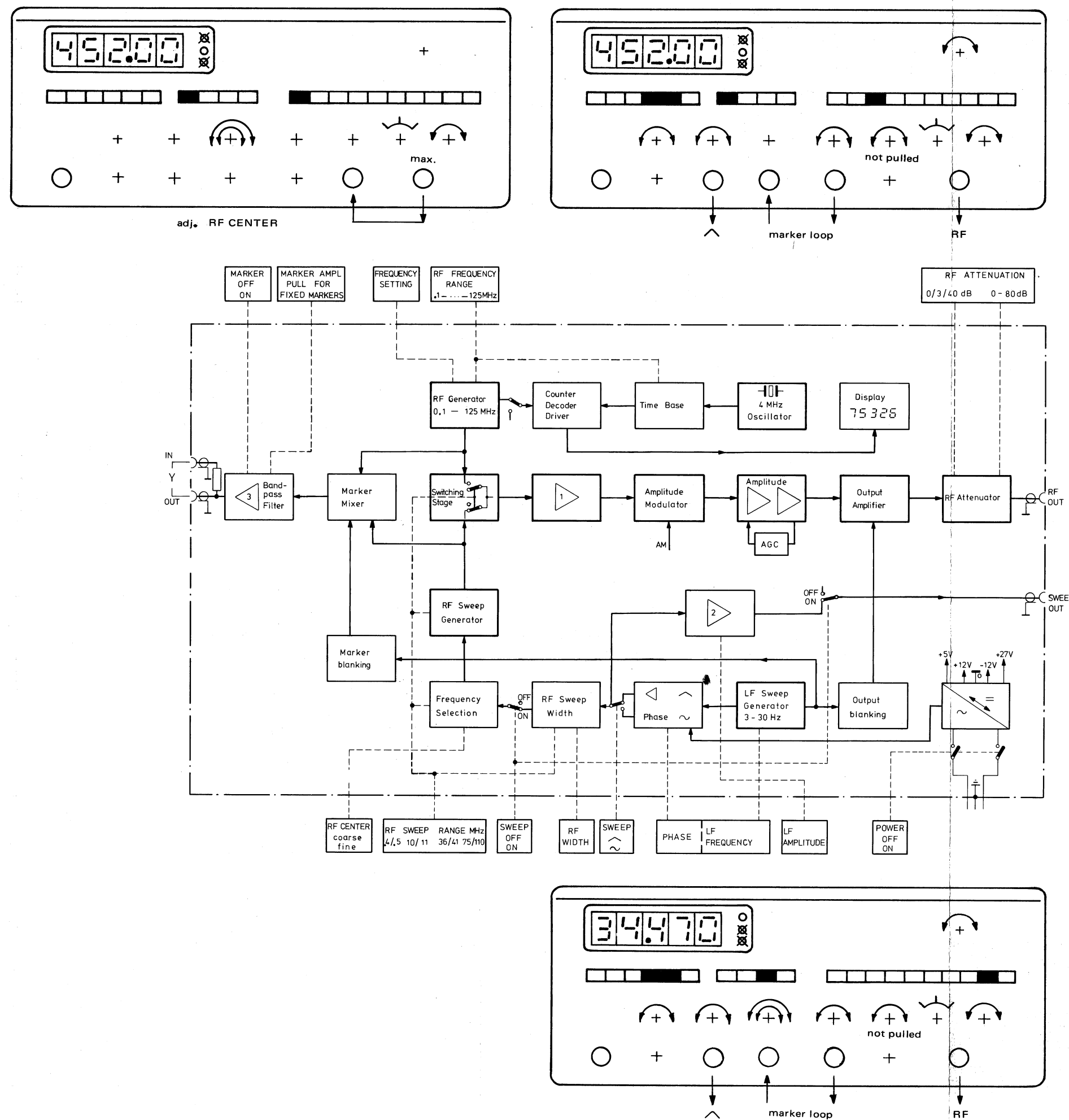
1 kHz 1 kHz

RF

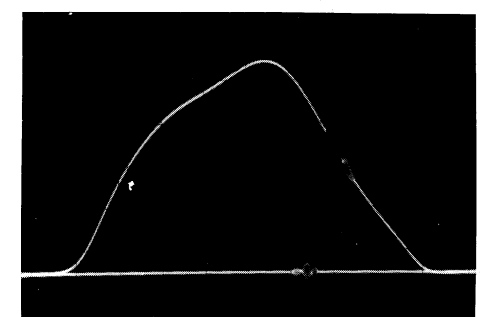
Fig. 4 Frequency modulation, adjustment of carrier frequency
Frequenzmodulation, Kalibrierung der Trägerfrequenz
Modulation de fréquence, réglage de la fréquence porteuse



100 MHz $\pm$ 75 kHz modulated

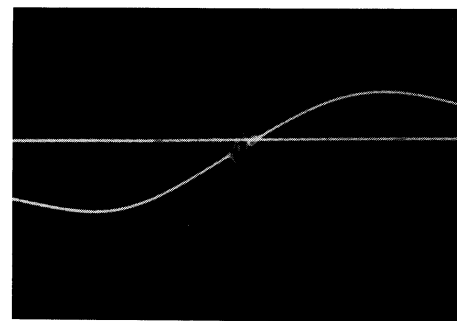


AM, IF curve and marker are shown separately on a dual trace oscilloscope PM 3226. The alignment is carried out at 452 kHz.

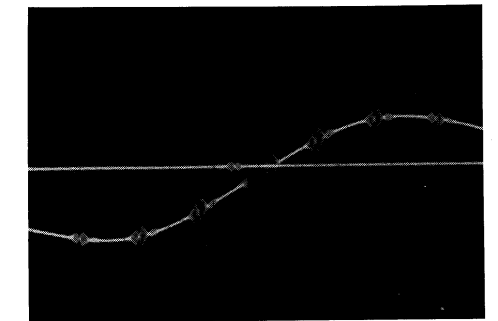
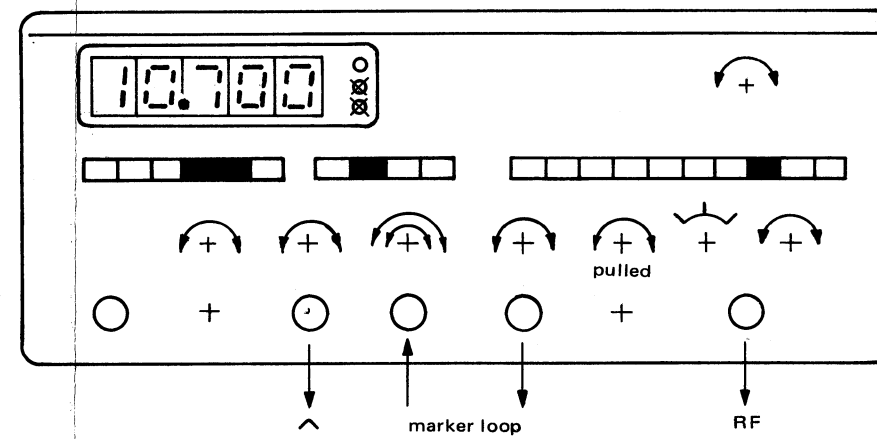


The luminance IF curve is aligned at its frequency of 34.47 MHz.

Fig. 5 Wobbling with adjustable frequency marker, adjustment of centre frequency (RF center)
 Wobbeln, mit verschiebbarer Frequenzmarke, Einstellung der Mittenfrequenz (RF center)
 Wobblulation avec marque décalable de fréquence, réglage de la fréquence centrale (RF center)



S curve of FM discriminator with variable marker set at 10.7 MHz. not pulled



S curve with variable marker at 10.7 MHz and fixed markers at regular intervals of 100 kHz.

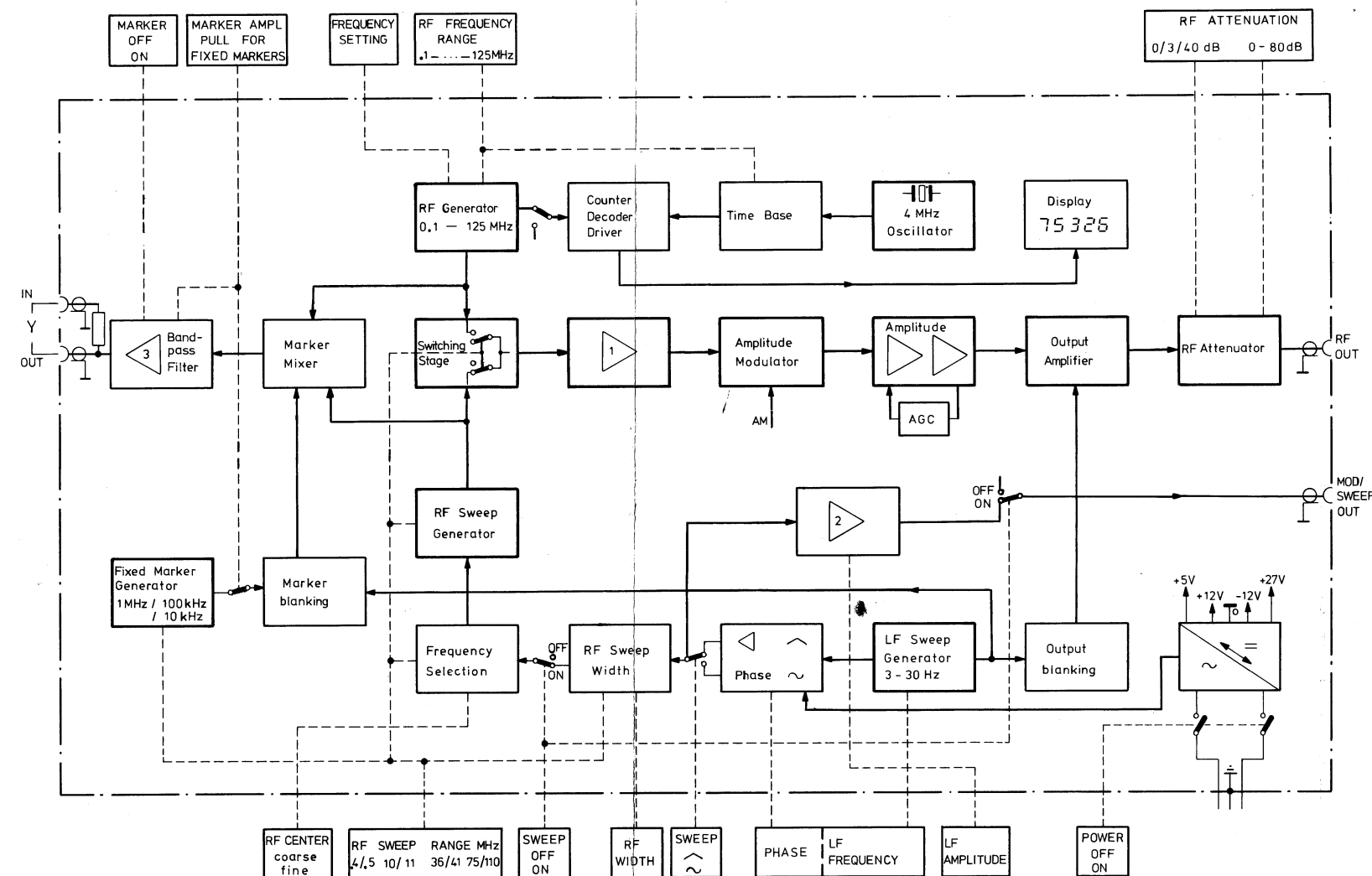


Fig. 6 Wobbling with adjustable frequency marker spectrum
Wobbeln, mit verschiebbarem Frequenzmarkenspektrum
Wobblulation avec spectre décalable de repères de fréquence

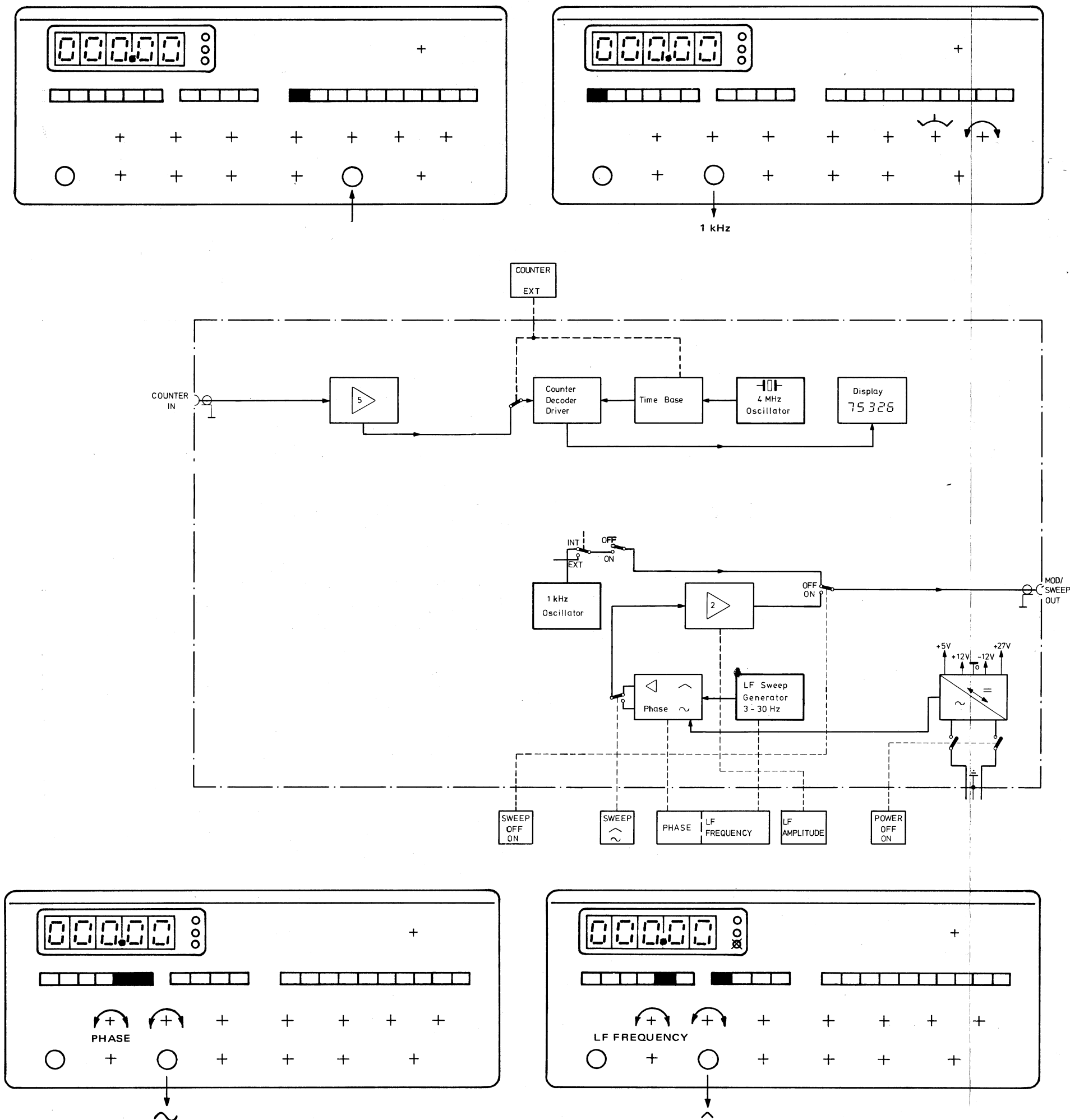


Fig. 7 External frequency counter; generator for 1 kHz sine, 3 – 30 Hz $\wedge$, mains frequency with phase shifter
 Zähler für externe Frequenzen; Generator für 1 kHz sinus, für 3 – 30 Hz $\wedge$, für Netzfrequenz mit Phasenschieber
 Compteur des fréquences externes; générateur pour 1 kHz sinus, 3 – 30 Hz $\wedge$, fréquence secteur avec déphaseur

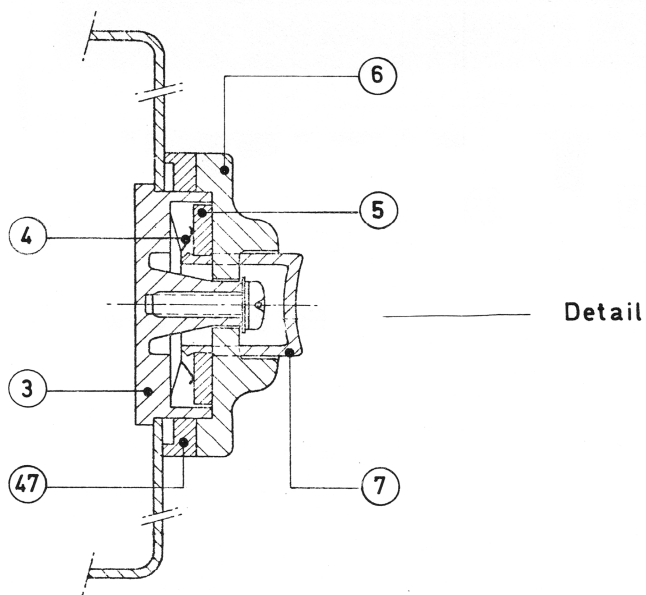
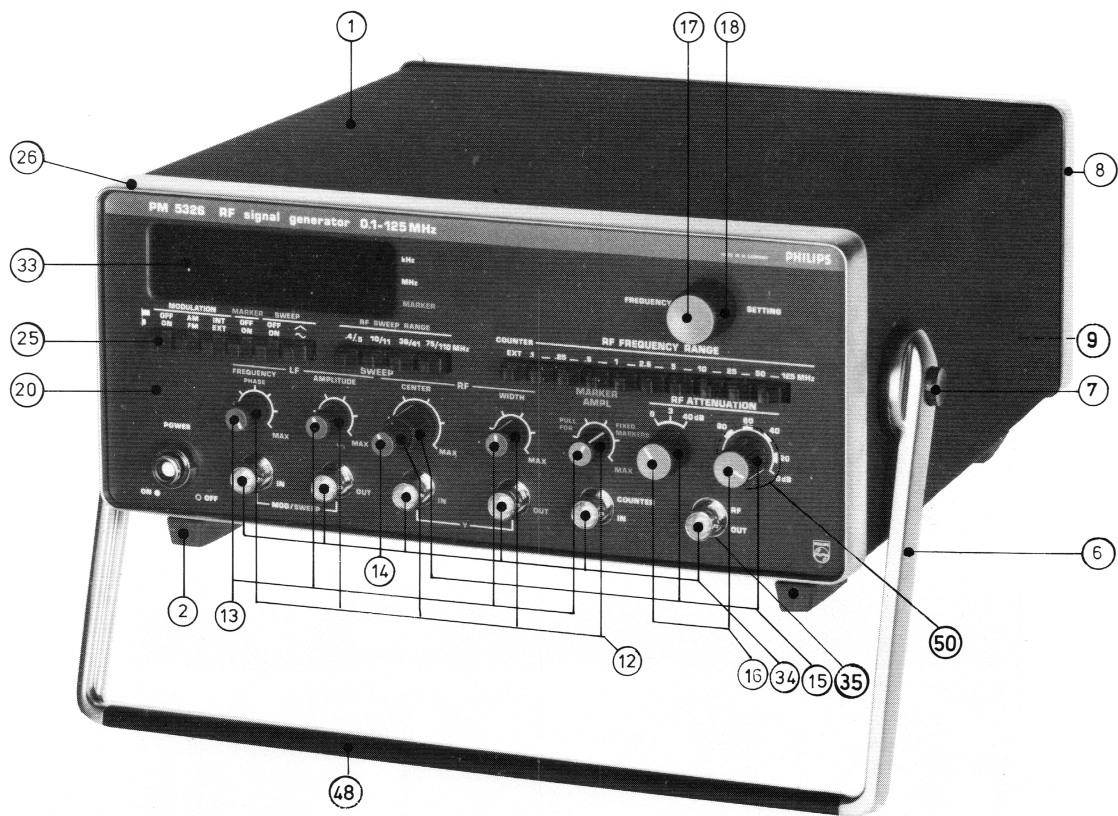
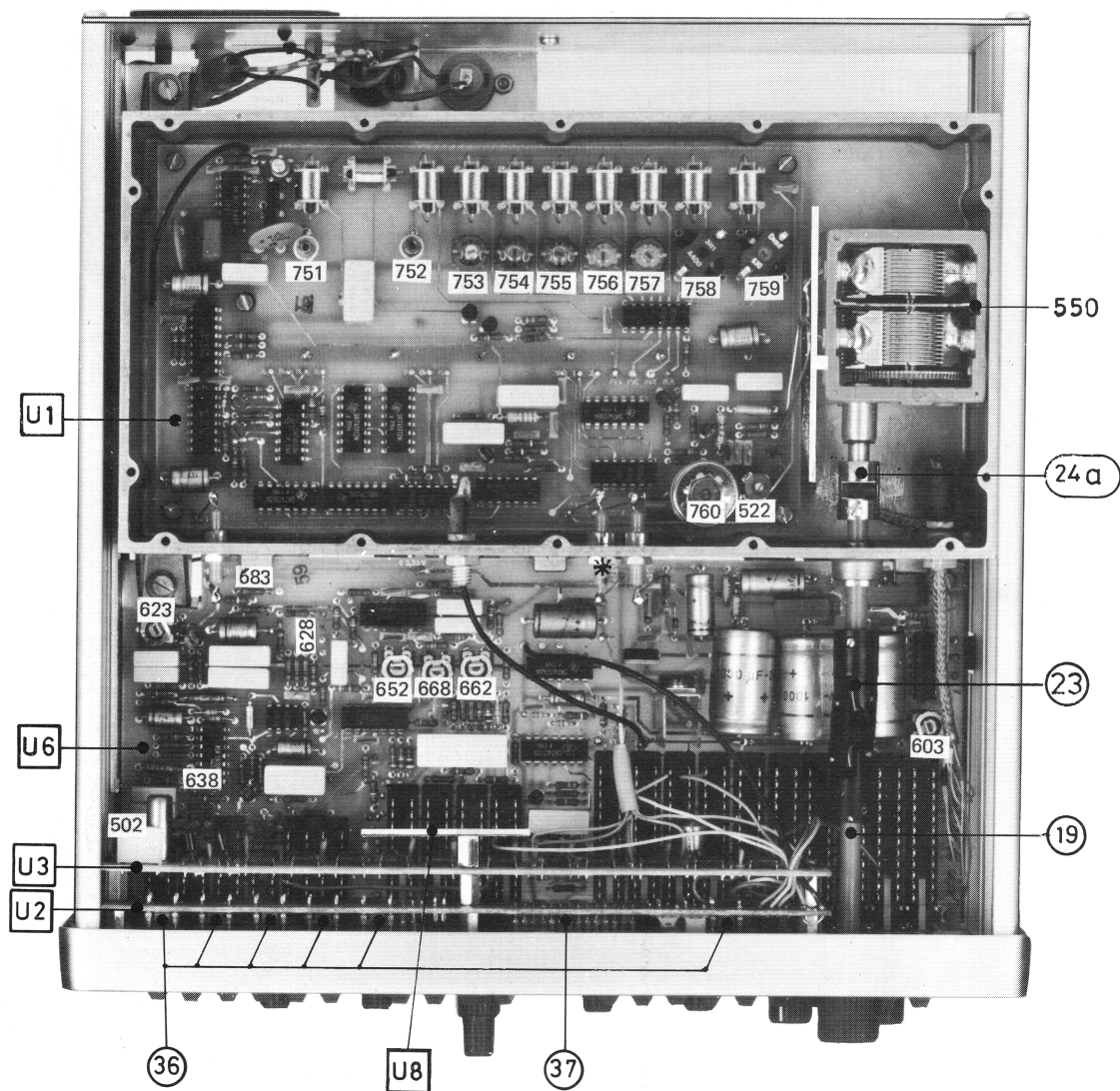


Fig. 8 Front view, mechanical parts



* omitted from
LO 031600 onward

Fig.9 top view

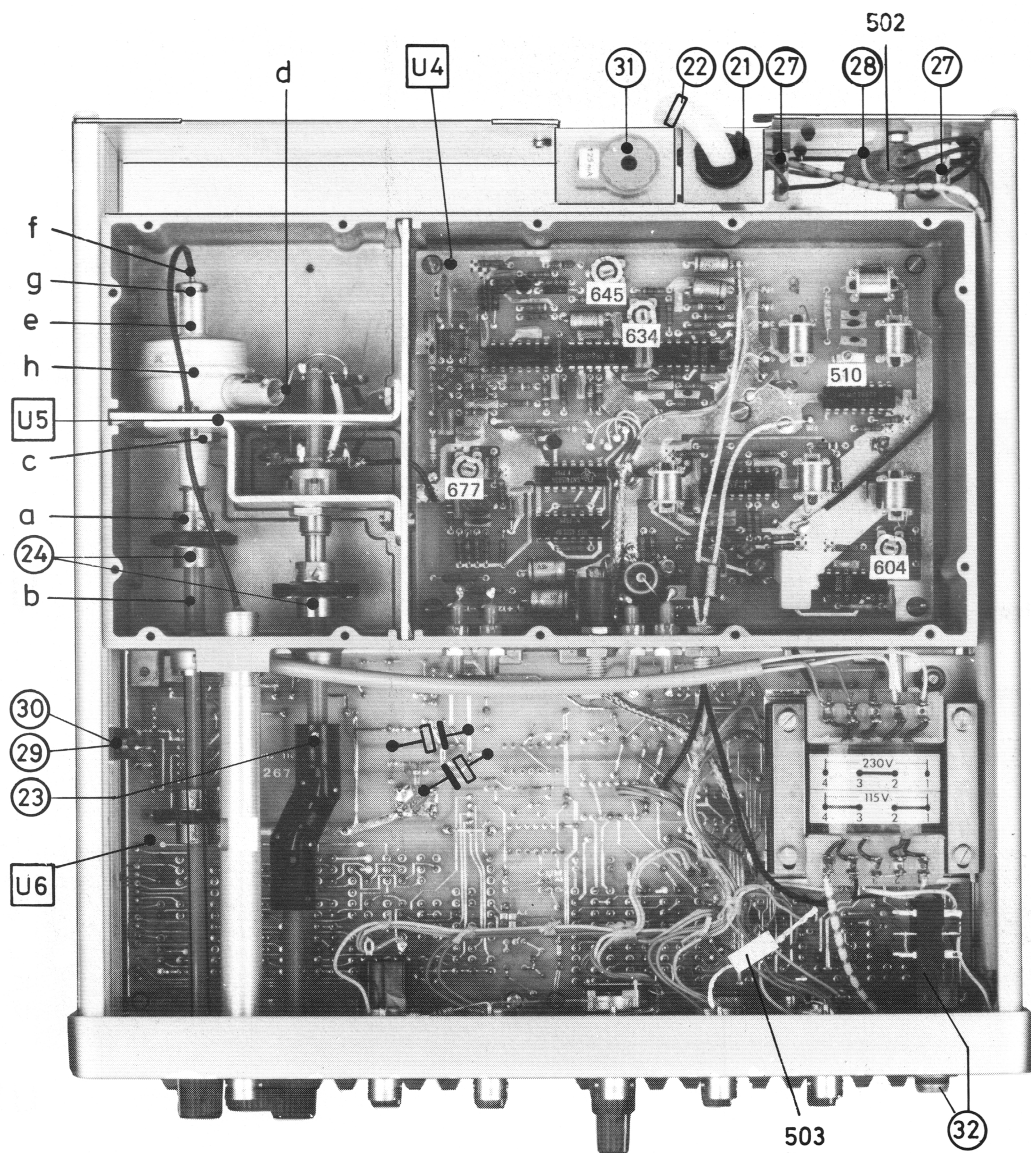


Fig. 10 bottom view

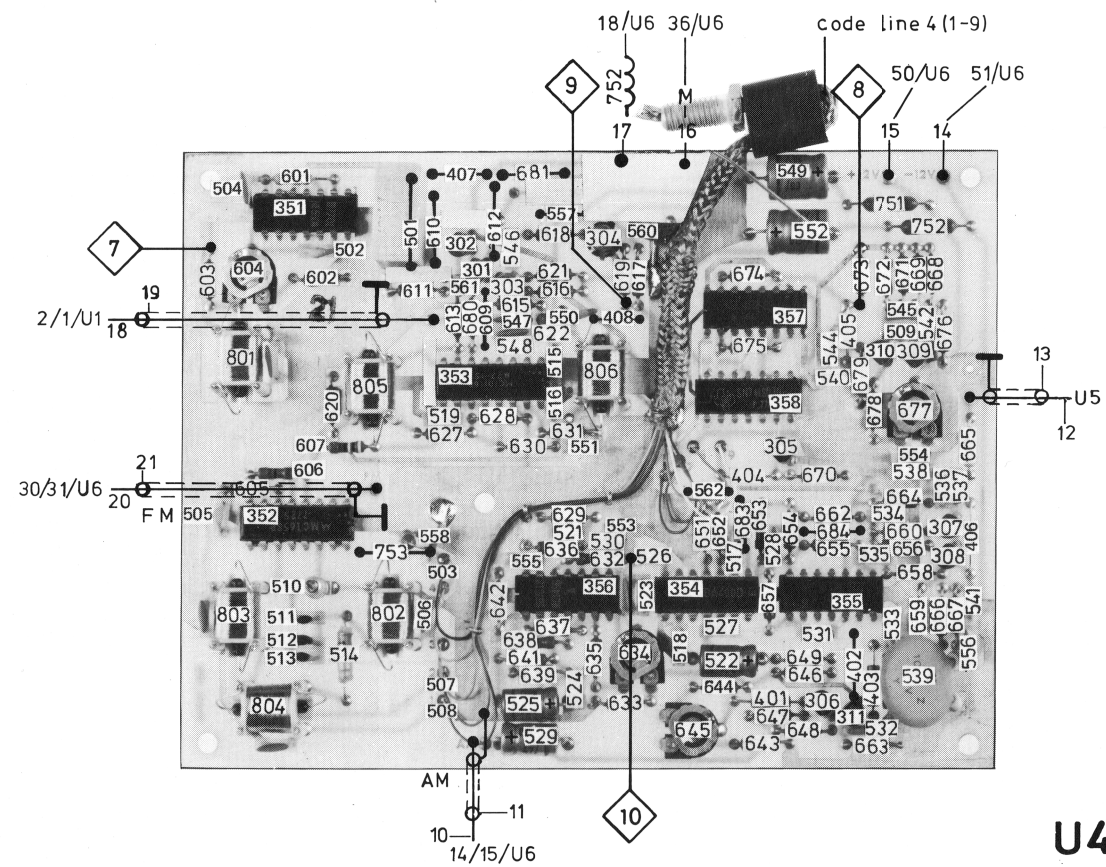


Fig. 12 Unit 4

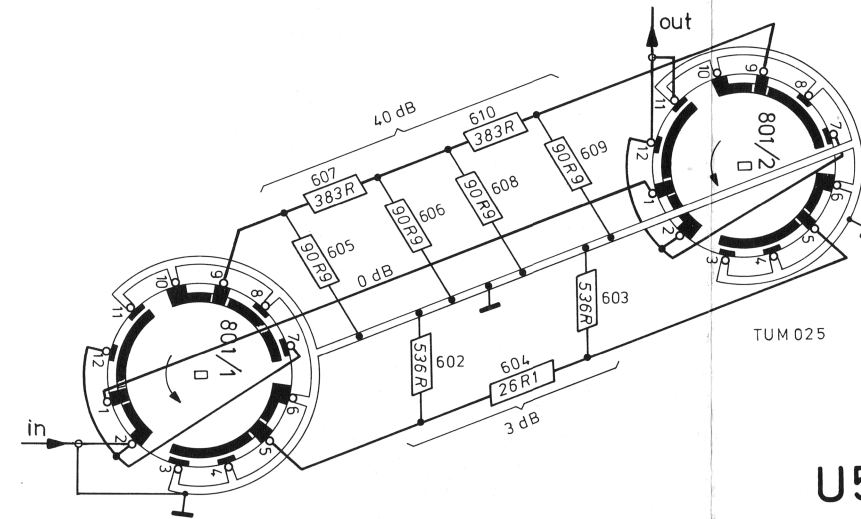


Fig. 16 Unit 5

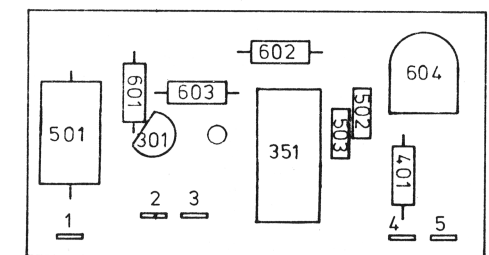


Fig. 20 Unit 8

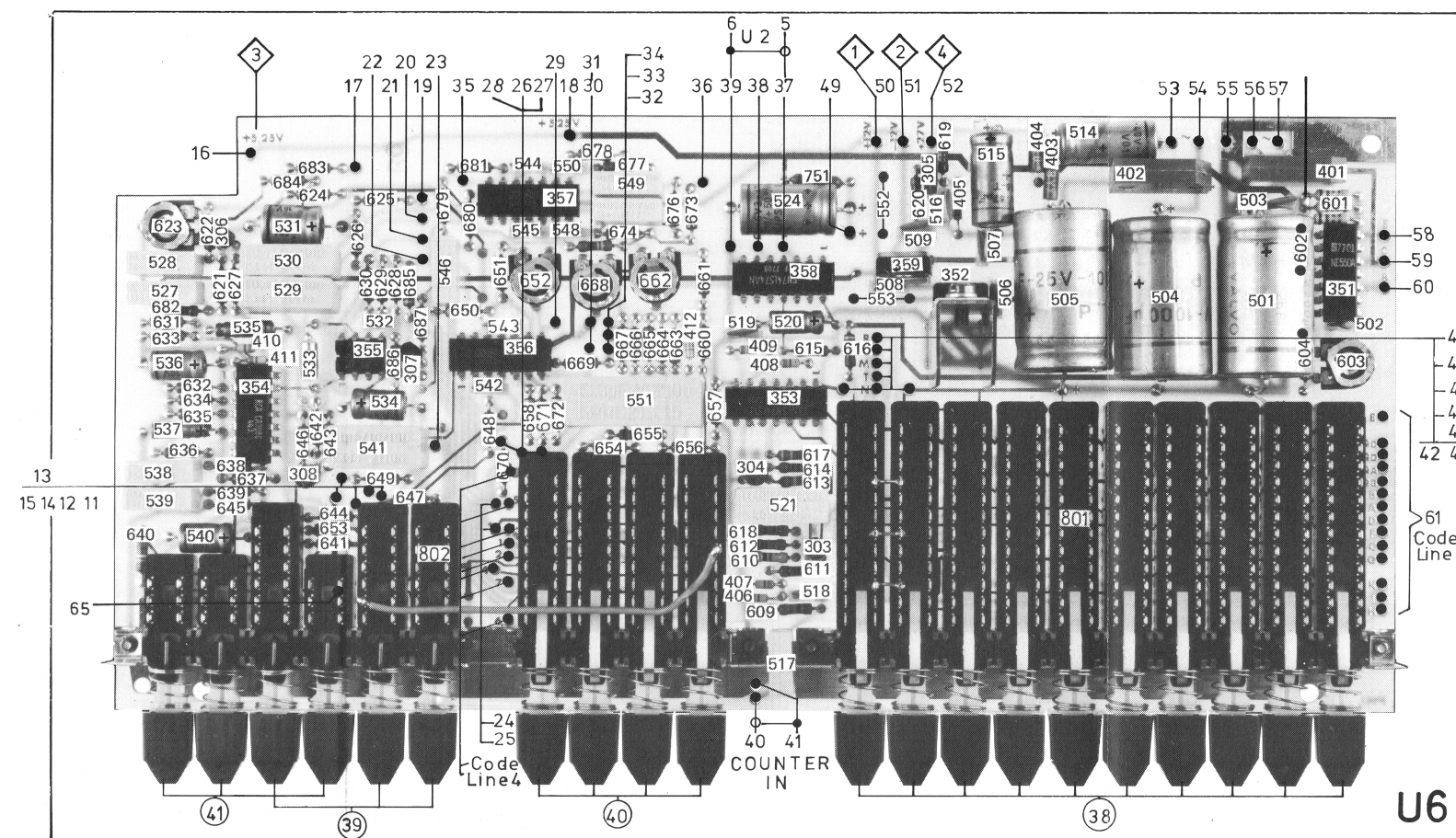


Fig. 13a Unit 6

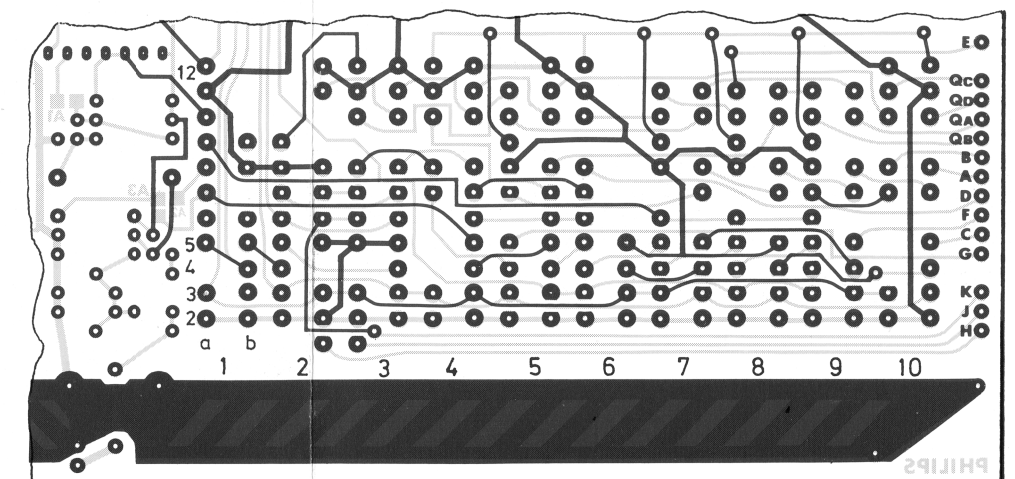


Fig. 13b Unit 6, switch 801; coded wiring for RF frequency ranges, prescaler, divider, time base, display

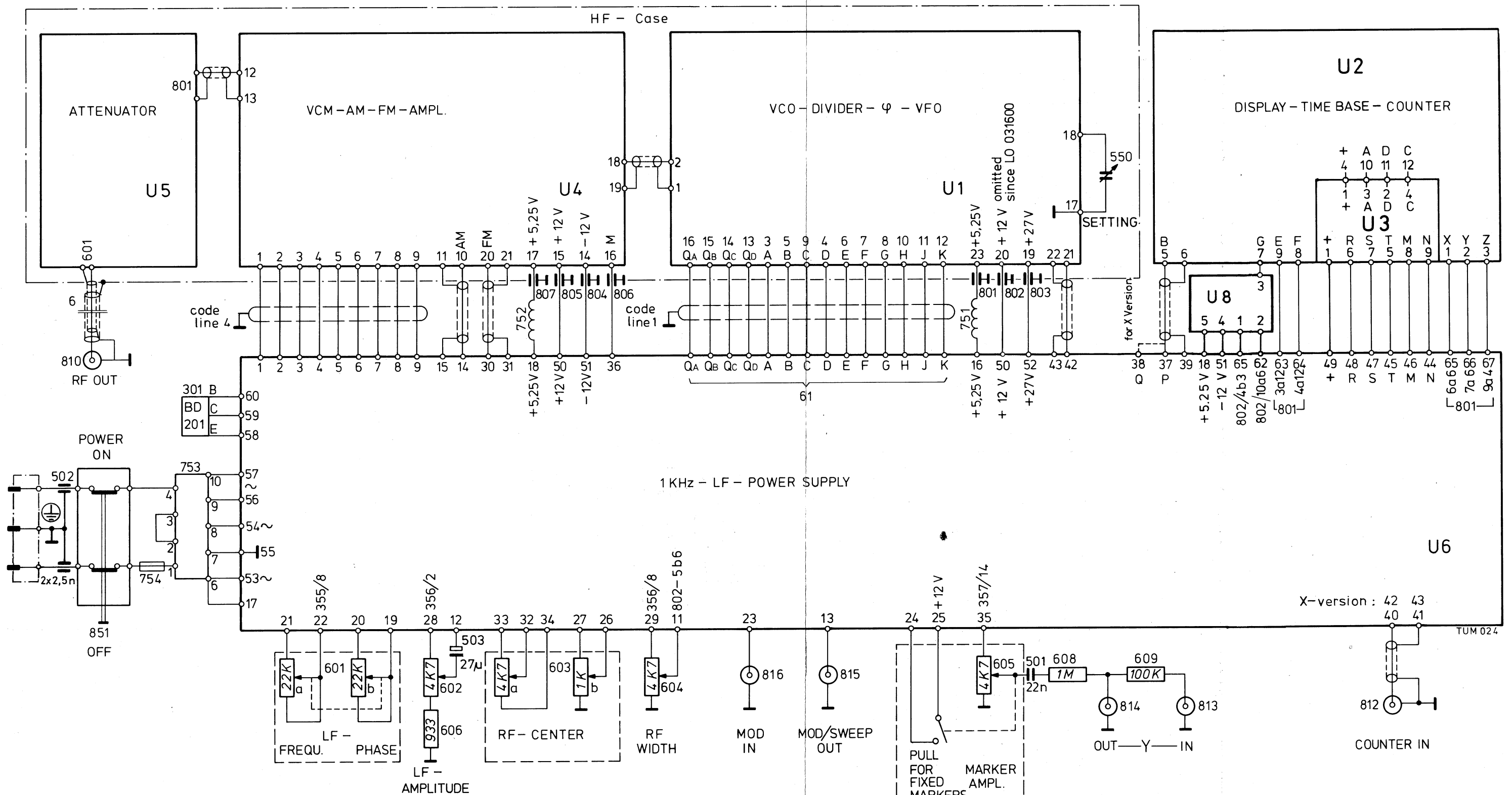


Fig. 17 Overall circuit diagram

