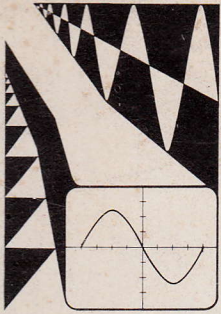


PHILIPS



Dual-trace oscilloscope

PM 3110

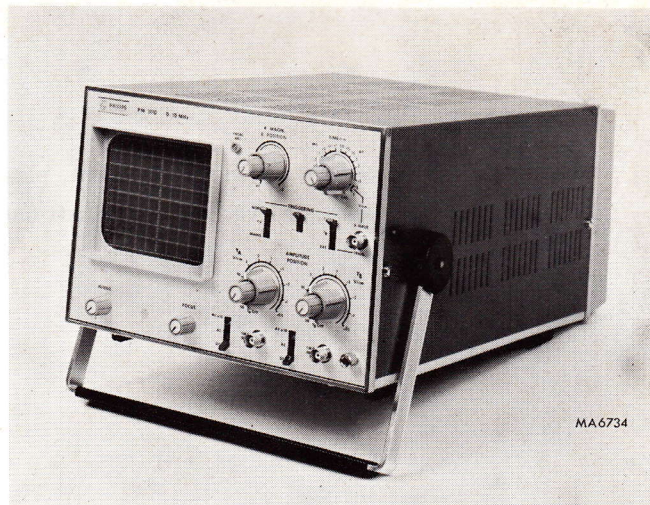
9452 031 10021

9499 440 08711

05/0172/1/02



PHILIPS



MANUAL

DUAL-TRACE OSCILLOSCOPE

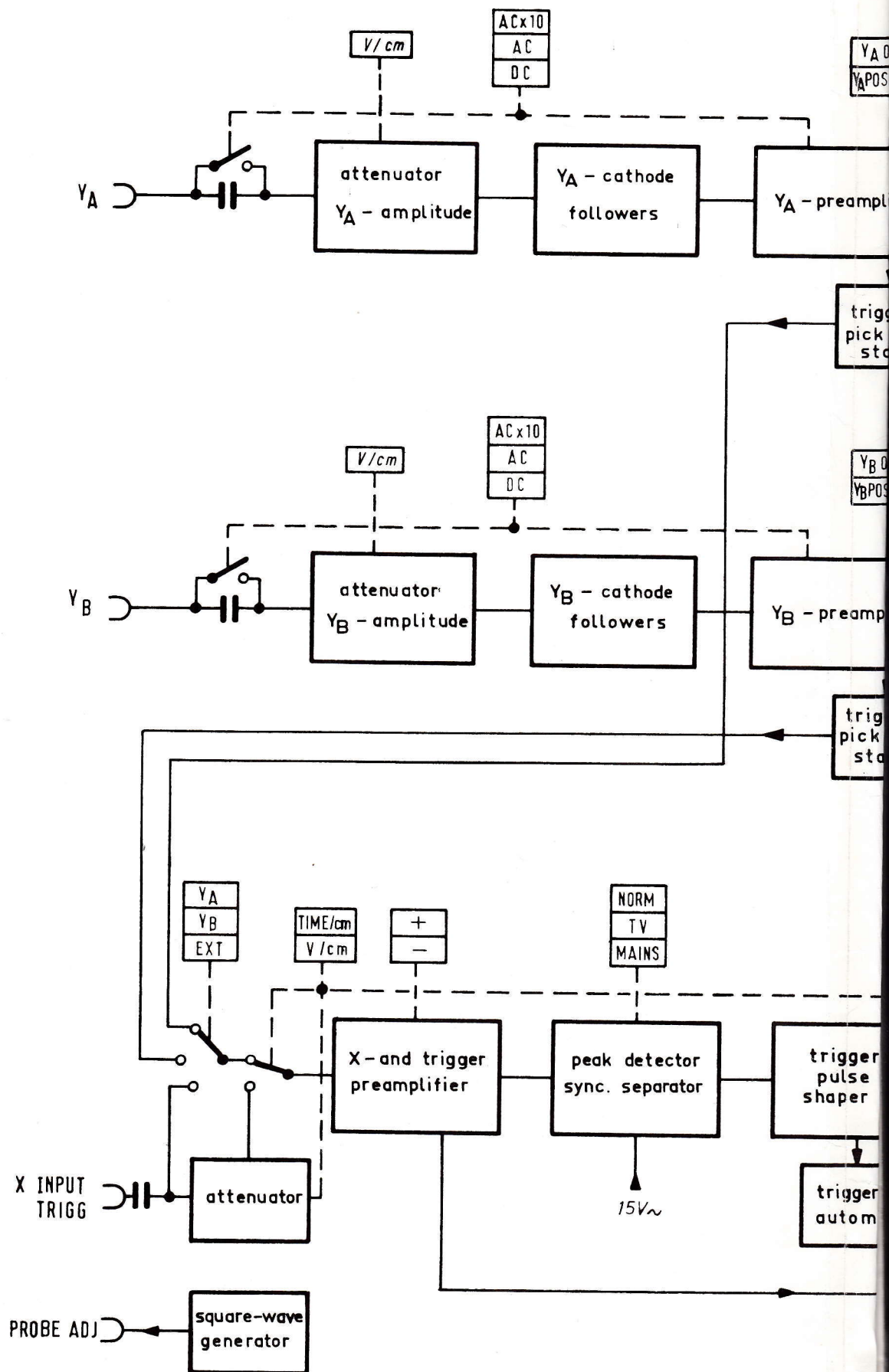
PM 3110

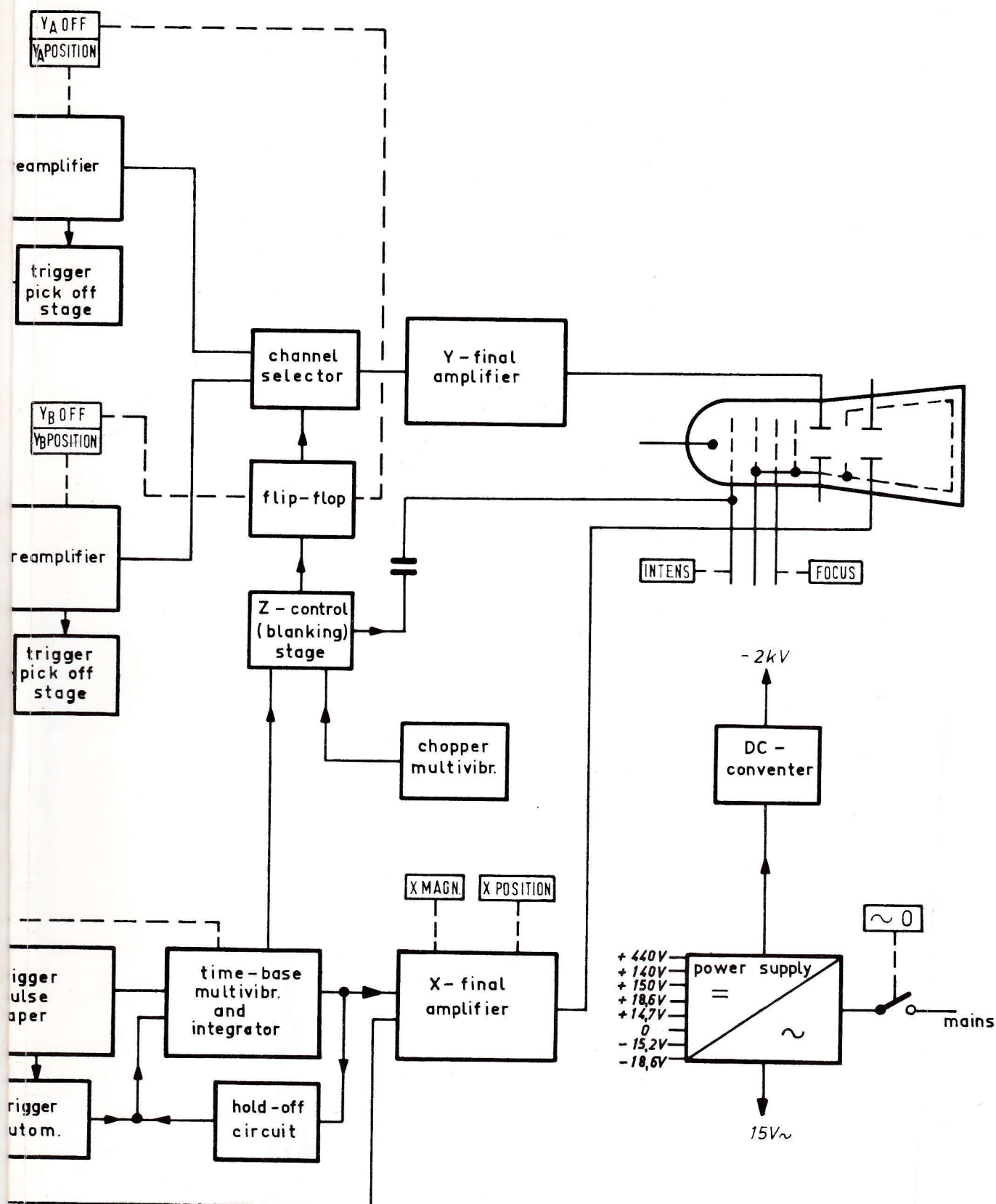
9452 031 10021



9499 440 08711

05/0172/1/02





MA 6955

Fig. 2. Block diagram

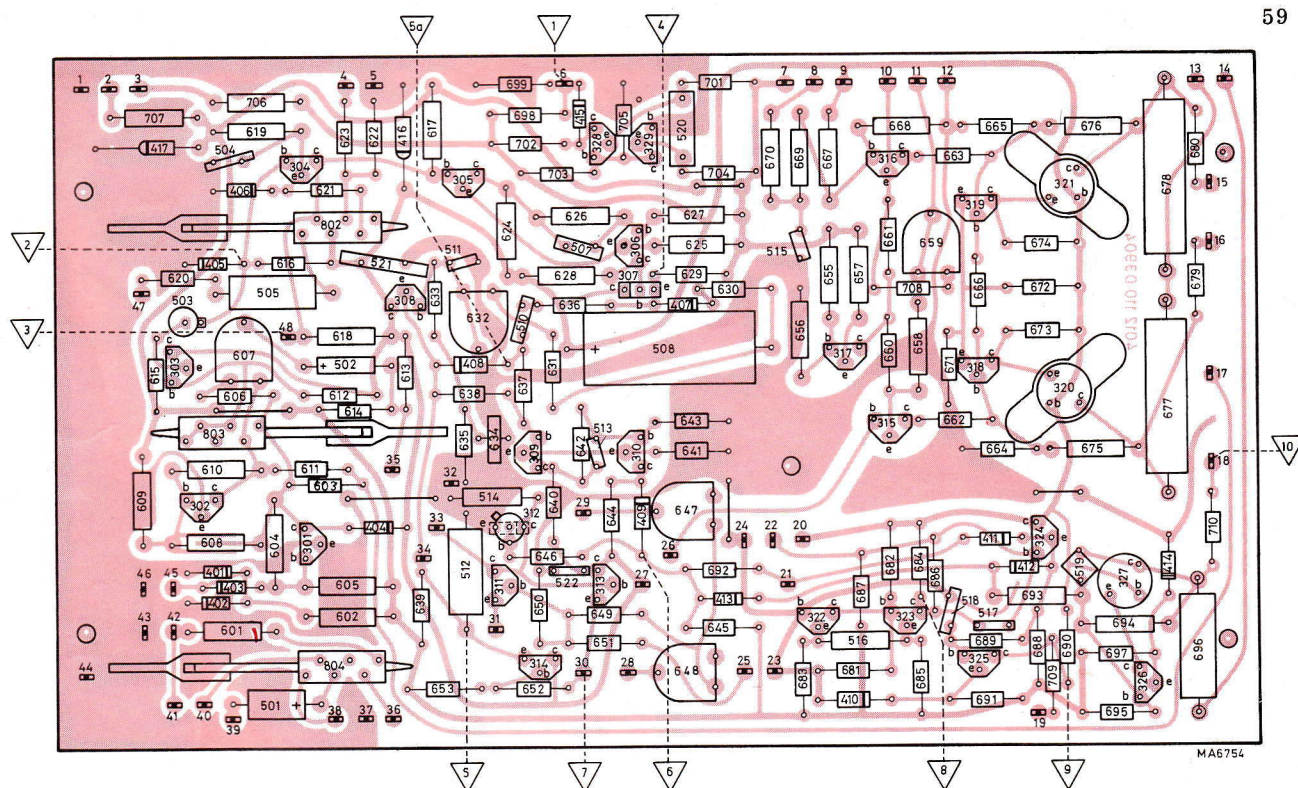


Fig. 25. Printed-wiring board, unit 3
 Printplatte Unit 3
 Printplaat unit 3
 Platine imprimée unit 3

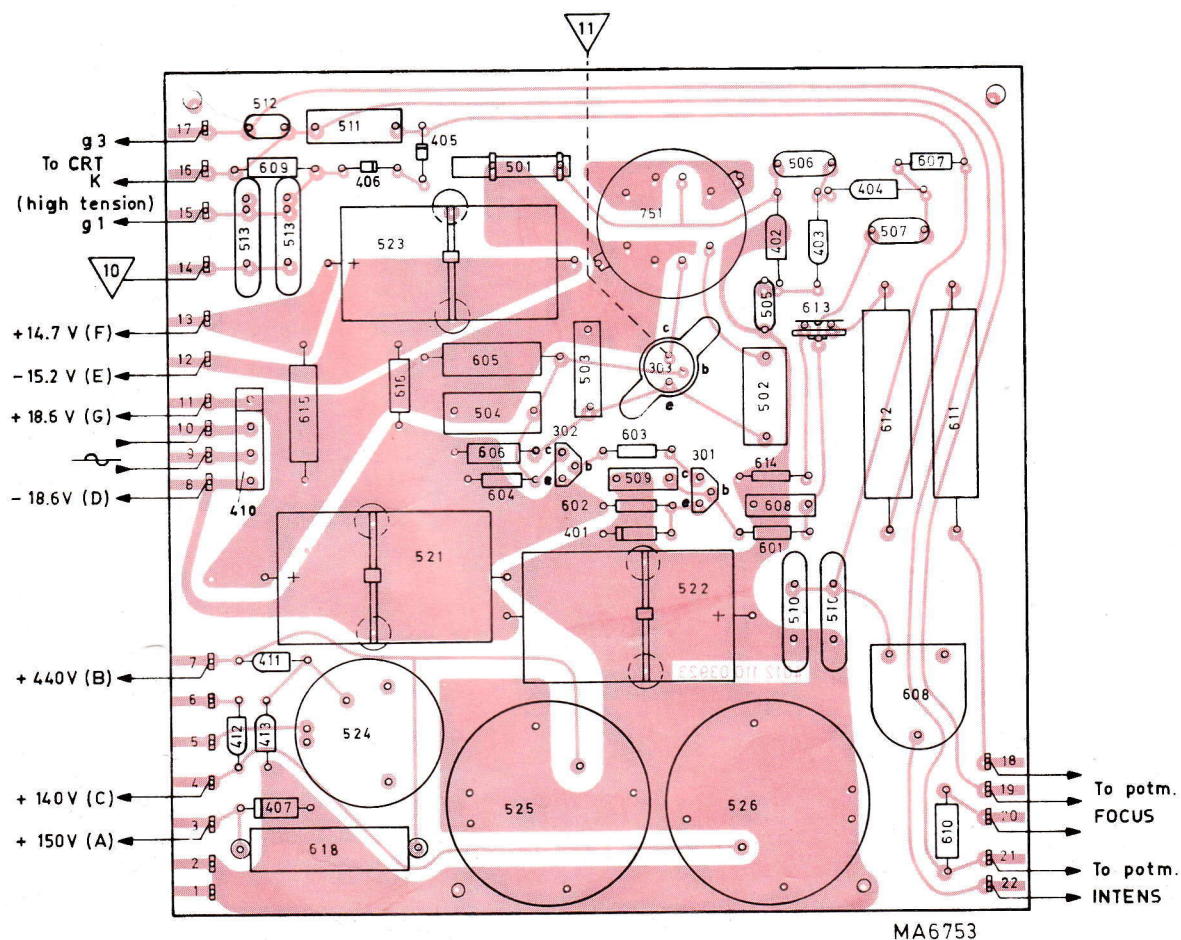


Fig. 26. Printed-wiring board, unit 4
 Printplatte Unit 4
 Printplaat unit 4
 Platine imprimée unit 4

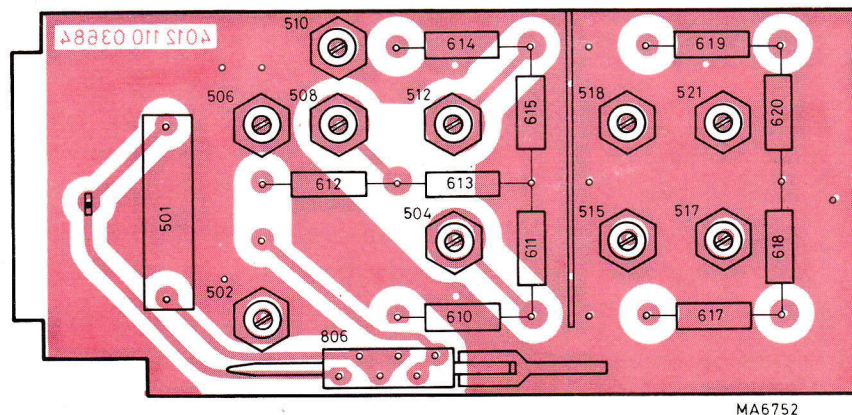


Fig. 23. Printed-wiring board, unit 1A (B)
 Printplatte Unit 1A (B)
 Printplaat unit 1A (B)
 Platine imprimée unit 1A (B)

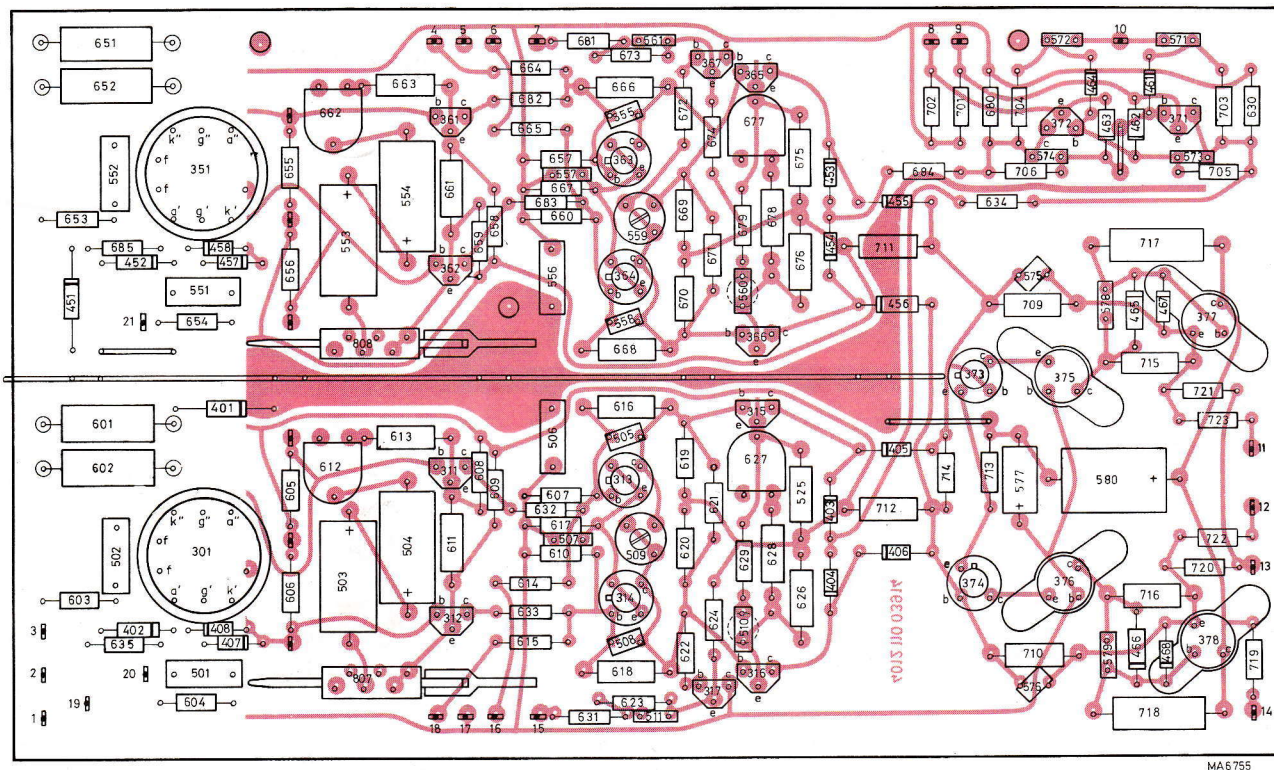
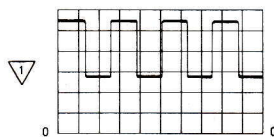
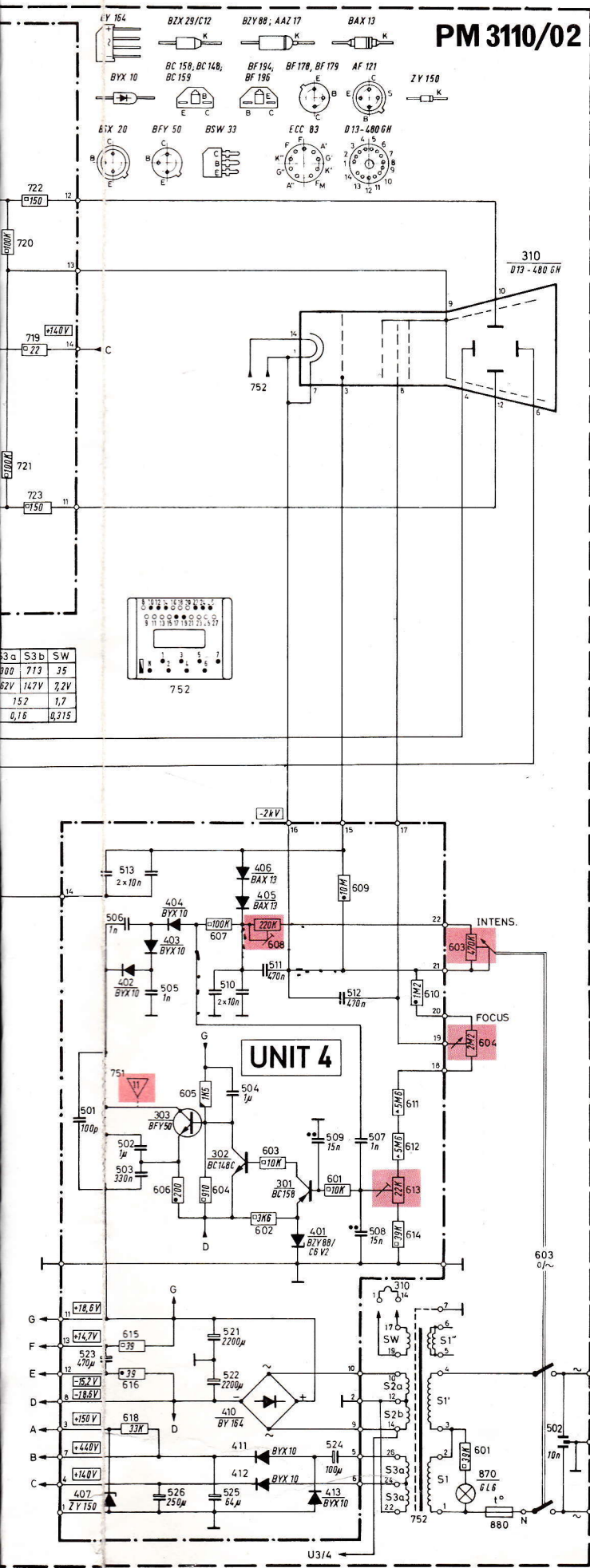
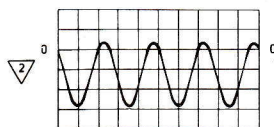


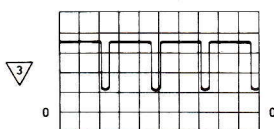
Fig. 24. Printed-wiring board, unit 2
 Printplatte Unit 2
 Printplaat unit 2
 Platine imprimée unit 2



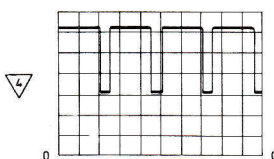
X=0,2ms/div
Y=2V/div
PROBE ADJ-Signal (d.c. coupled)



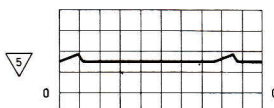
X=0,2ms/div
Y=2V/div
Sine-wave signal clamped by diode 405/U3
PM3110: sine-wave with 5Vpp, 2kHz on YB (1V/cm)
Trigg. in pos. +, YB, NORM. time-base in pos. 0,1ms/cm.



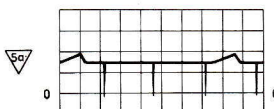
X=0,2ms/div
Y=2V/div
Output current-switching stage
PM3110: as 2



X=0,2ms/div
Y=2V/div
OUTPUT 1 Schmitt-trigger
PM3110: as 2



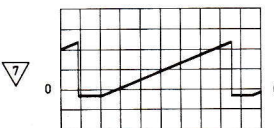
X=0,2ms/div
Y=2V/div
Hold-off voltage
PM3110: as 2



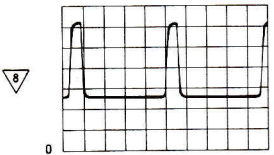
X=0,2ms/div
Y=2V/div
Trigger pulses at input of time-base circuit
PM3110: as 2



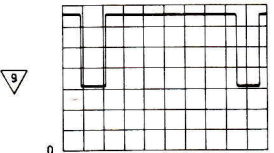
X=0,2ms/div
Y=2V/div
Driver pulse for time-base and blanking circuit
PM3110: as 2



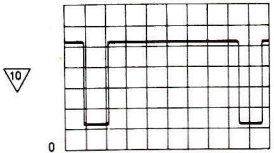
X=0,2ms/div
Y=2V/div
Time-base signal
PM3110: as 2



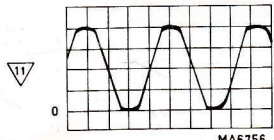
X=0,5μs/div
Y=2V/div
Output chopper multivibrator
PM3110: time-base in pos. 0,2ms/cm



X=0,2ms/div
Y=2V/div
Flipflop driver pulse (alternate mode)
PM3110: as 2



X=0,2ms/div
Y=20V/div
Blanking voltage in alternate mode
PM3110: as 2



X=5μs/div
Y=10V/div
Collector voltage of oscillator transistor 303/U4

Fig. 27. Circuit diagram
Gesamtschaltbild
Principeschema
Schéma général de principe