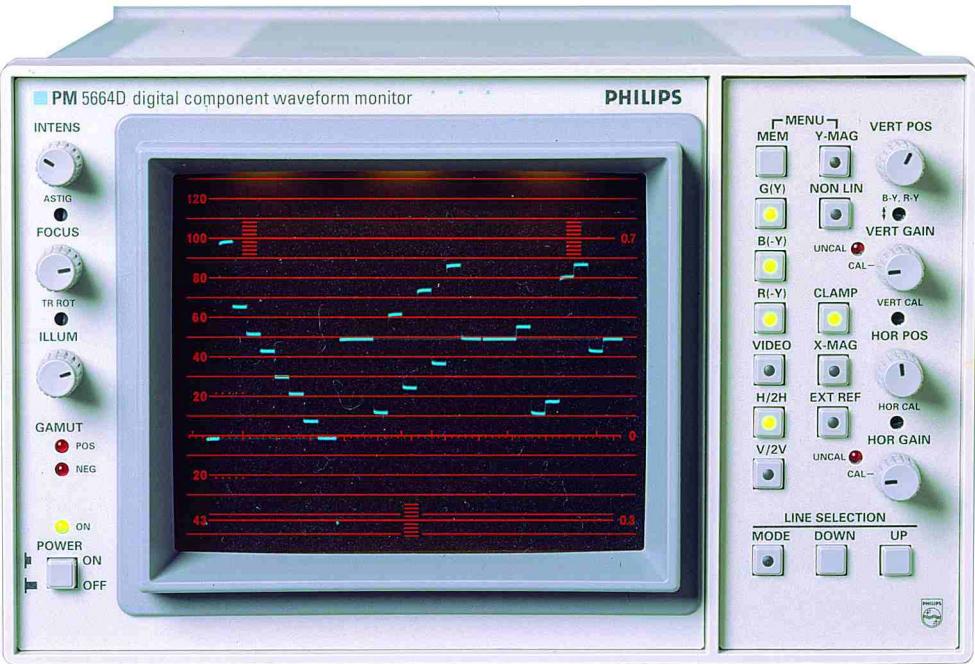


# PM 5664 & PM 5664D Component Waveform Monitor



## Service Manual – section 2: Diagrams and component placements

### Diagrams and component placement.

*Note: Diagrams are assembled in a sequence as below:*

Block diagram .....	13-1
Wiring diagram .....	13-2
Unit 1 - Power Supply	
Component Location .....	13-3
Diagrams .....	13-4
Unit 1a - CRT Board and Illumination Panel	
Component Location & Diagram.....	13-6
Unit 2 - CRT Control	
Component Location & Diagram.....	13-7
Unit 3 - Deflection Amplifier	
Component Location .....	13-8
Diagrams .....	13-9
Unit 4 - Signal Processor	
Component Location .....	13-11
Diagrams .....	13-12
Sub-unit: Sync Separator .....	13-18
Unit 5 - Potentiometer Board	
Component Location & Diagram.....	13-20
Unit 6 - Keyboard	
Component Location & Diagram.....	13-21
Unit 7 - Control Board	
Component Location .....	13-22
Diagram.....	13-23
Unit 8 - RGB Monitor	
Component Location .....	13-26
Diagram.....	13-27
Unit 9 SDI input (Only in PM 5664D)-	
AJA module D10C .....	no service information available

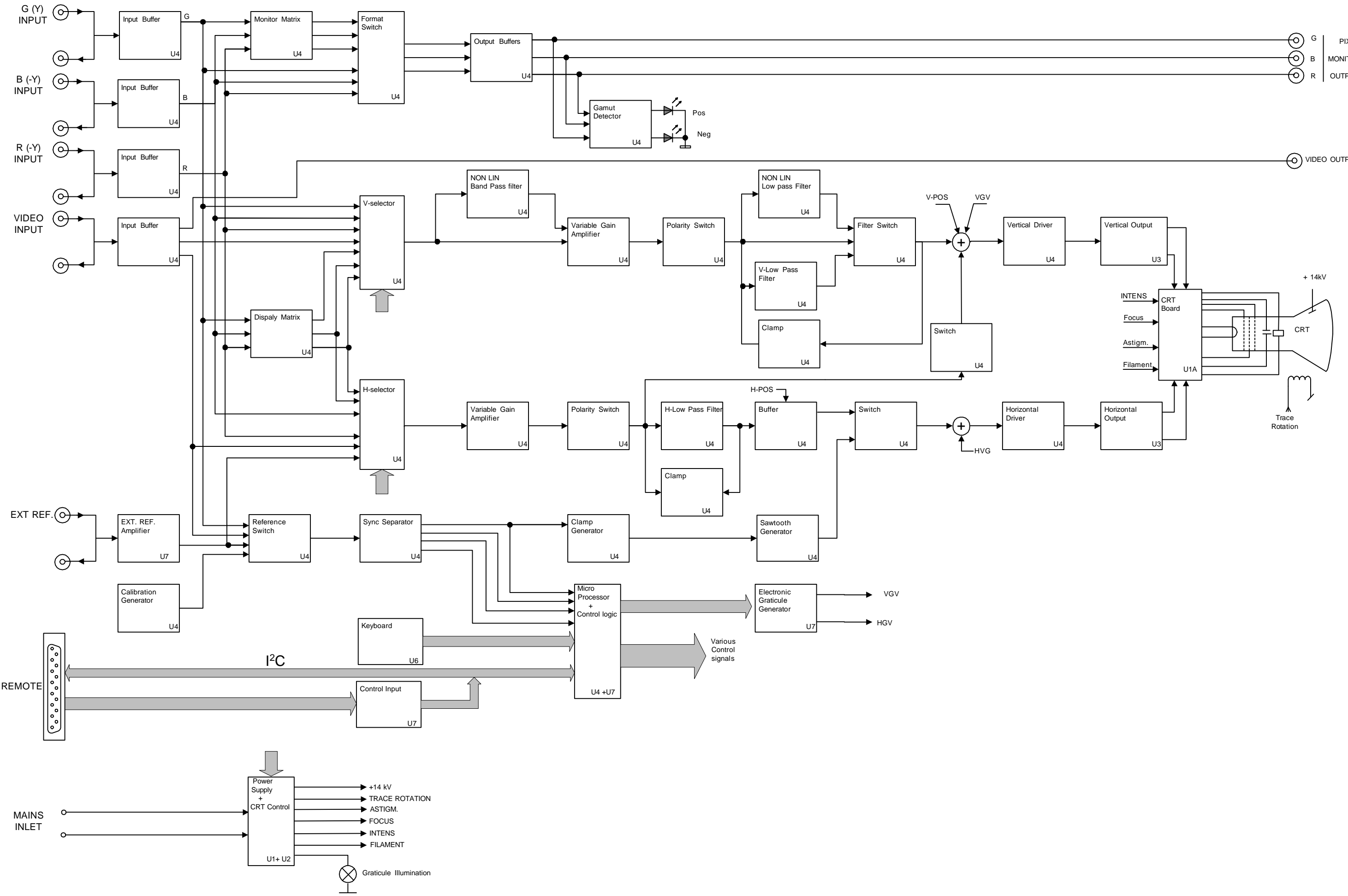
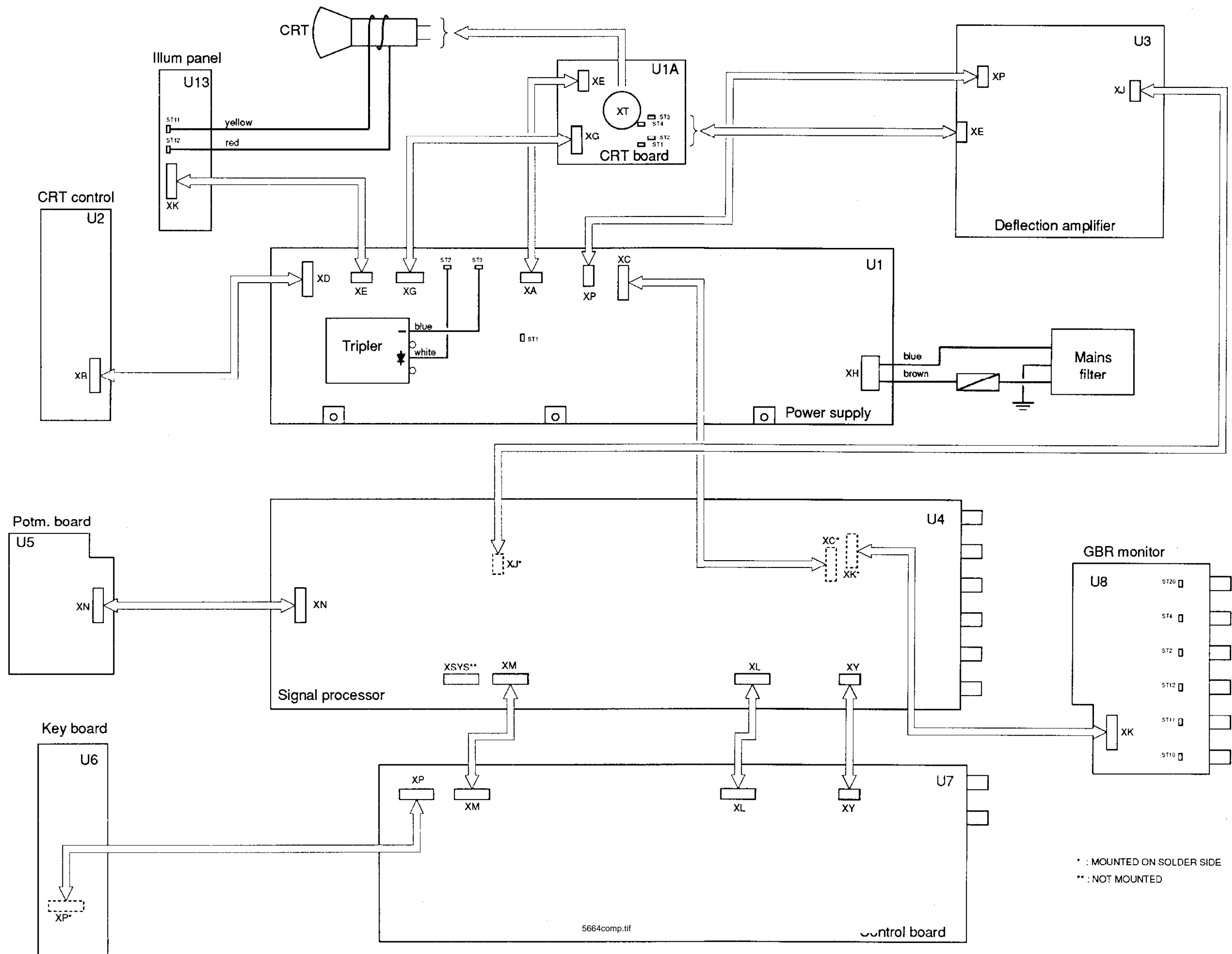
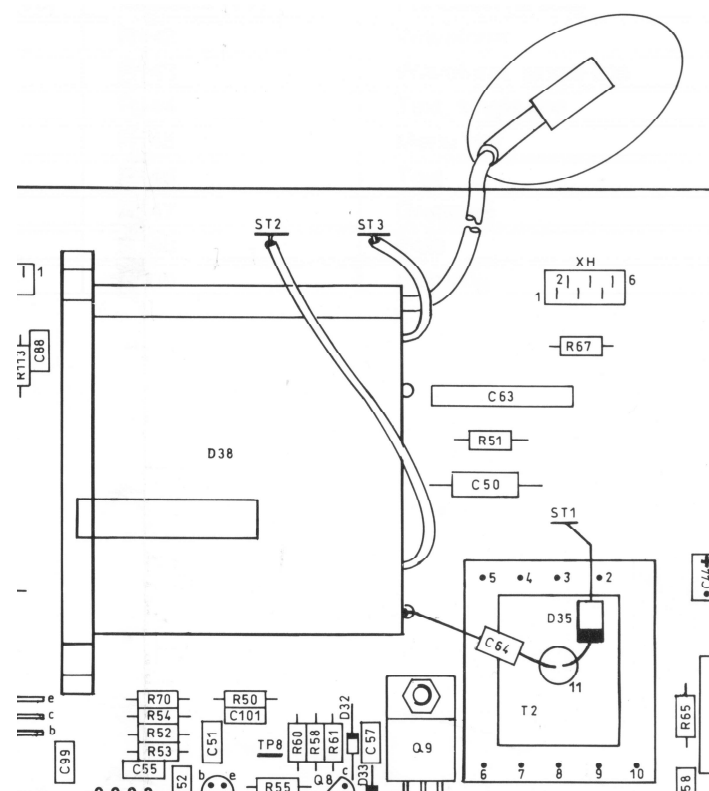
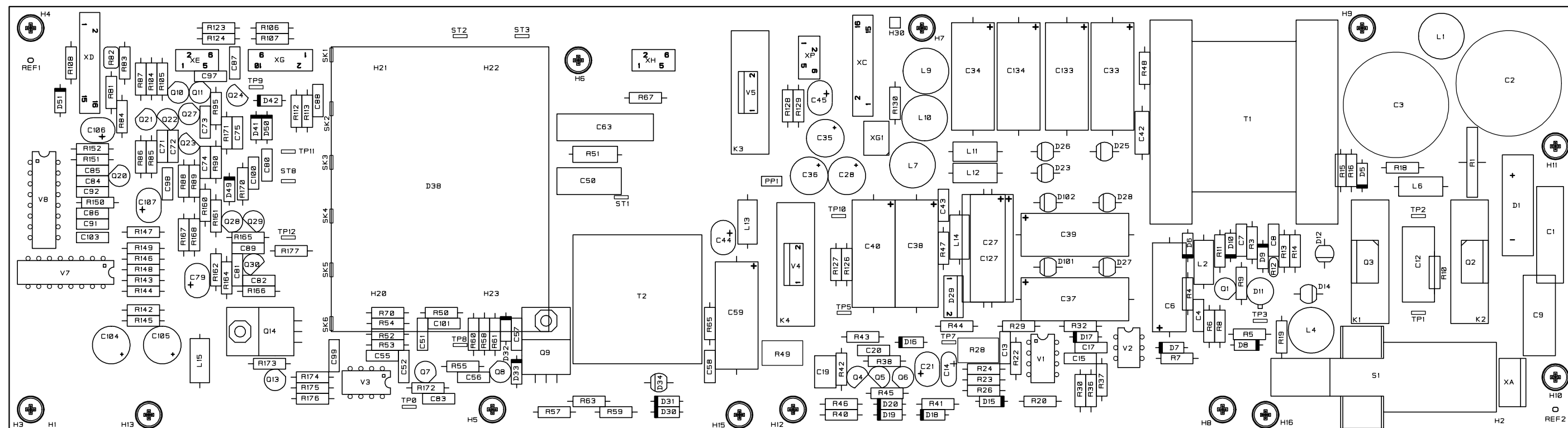
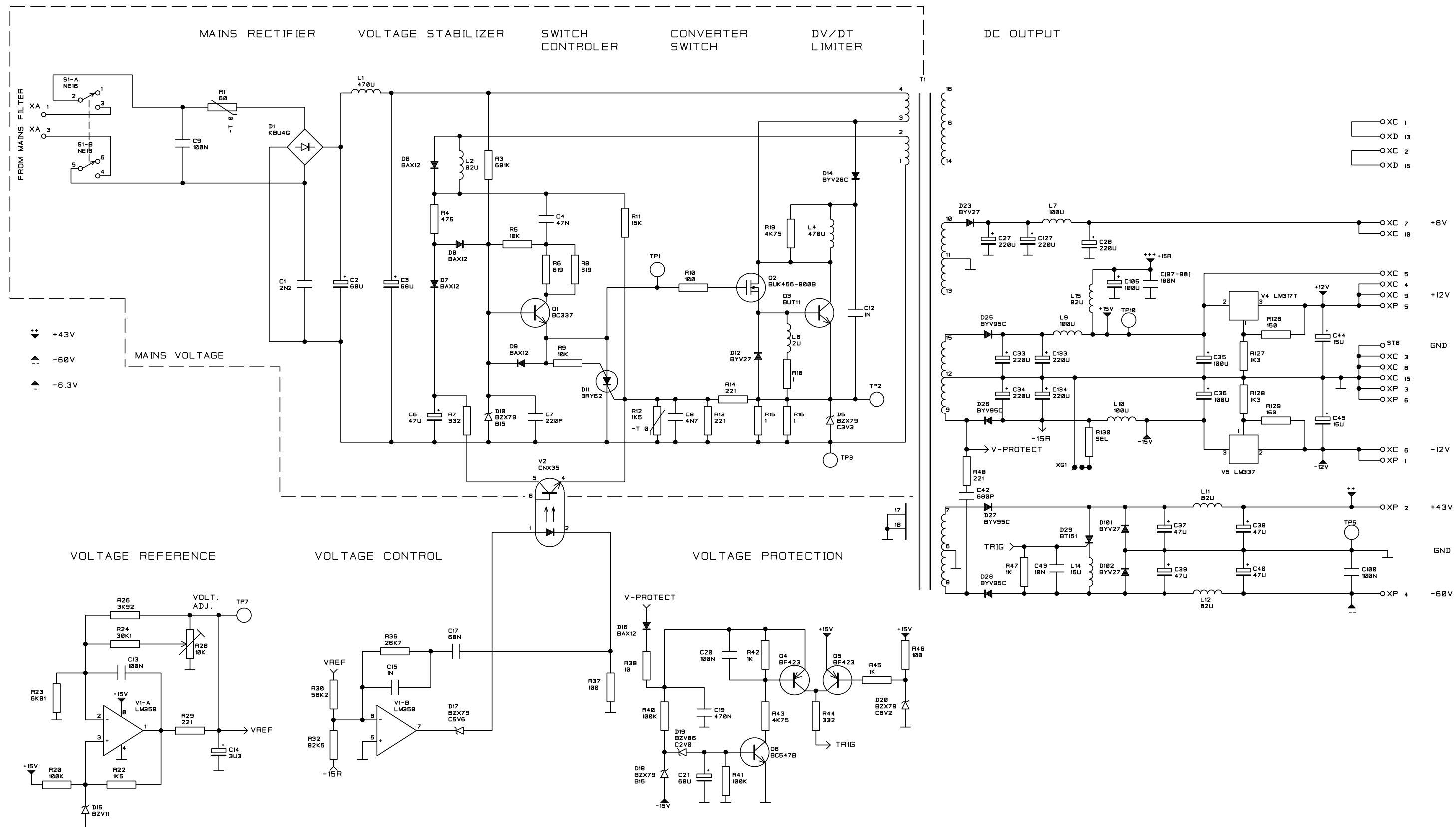


Fig 2-1 Instrument block diagram





Tripler connection



FIRST USED IN: PM5664/U1  
PCB REF.: 4008 117 0461

		POWER SUPPLY		4008 109 7111		4	99-02-24
						3	97-12-11
						3	95-01-20
CHECK:		NAME: SML/ML/SRJ/SMa/JML		2	SH	SH 130 - 1	5
AB 71113 .SCM A 04615.PCB		KU		DK-AUDIO A/S		DK-2730 Herlev	
						DAT. 89-03-02	
						A3L	



The diagram shows the connection of the ST1 and ST2 cables to the LA1, LA2, and LA3 modules. The ST1 cable is connected to the red input of the LA1 module, and the ST2 cable is connected to the yellow input of the LA1 module. The LA2 and LA3 modules are also shown, but their inputs are not connected in this diagram.

The schematic diagram illustrates the internal structure and external connections of the Philips 11L50 camera tube. The circuit is divided into several functional sections:

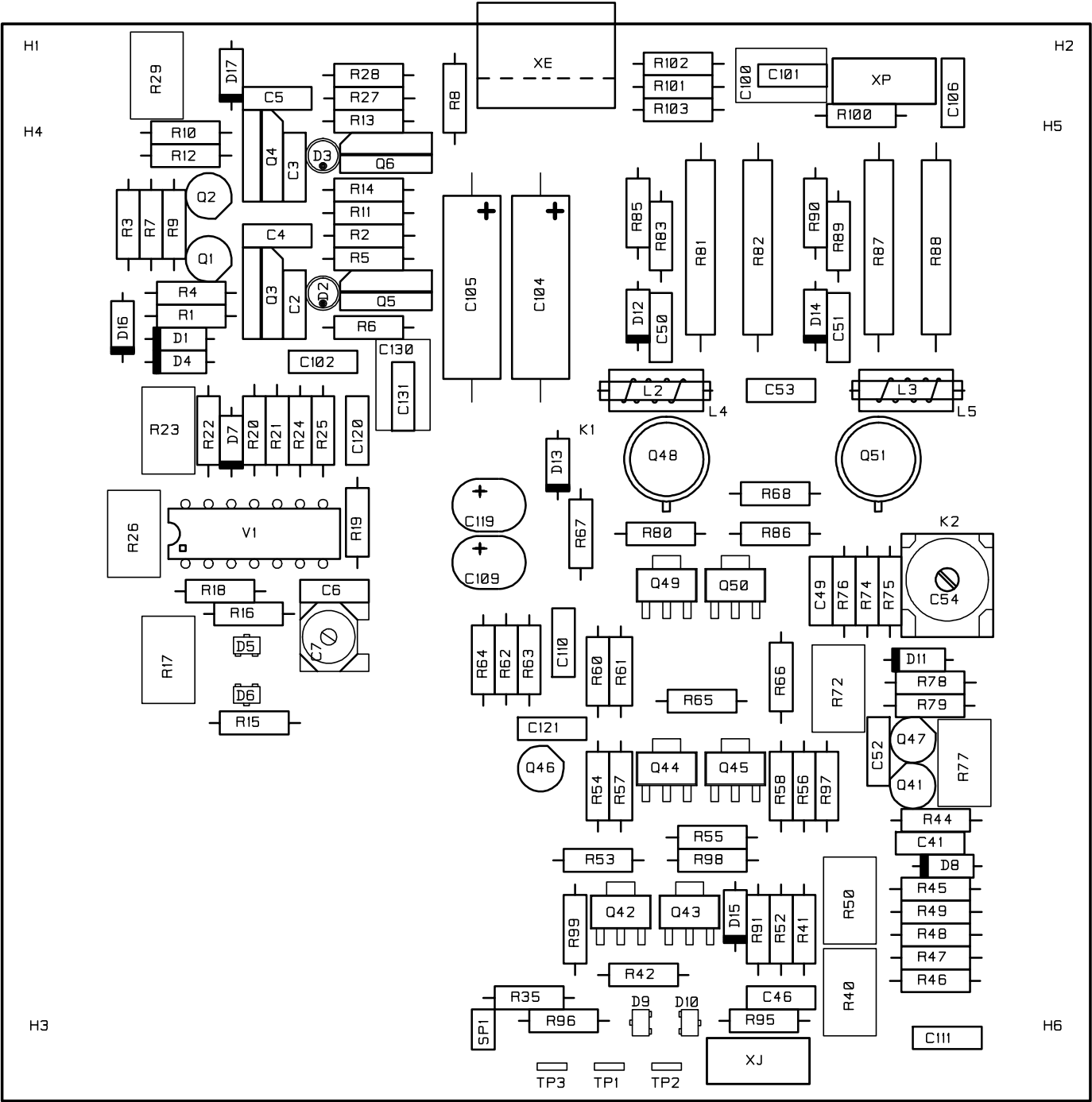
- Input Section:** Features inputs for XG 1 (INT (HF)), XG 9 (INT (LF)), and XH 1. These are connected to a network of capacitors (C1, C2, C8), diodes (D1, D2, D3), and resistors (R1, R2, R6).
- Black Level Adjustment:** A section labeled "BLACK LEVEL ADJ." includes a potentiometer (R4) and a variable capacitor (C3) for adjusting the black level.
- Signal Processing:** The signal path continues through a series of resistors (R3, R5, R7, R8, R9, R10, R11) and capacitors (C4, C5, C6, C7, C9). It includes a transistor (Q1) and a diode (D4) for signal processing.
- Output Section:** The output is connected to XT 1 (F1), XT 2 (CATHODE), XT 3 (G1), XT 4 (G3 FOCUS), XT 14 (F2), XT 9 (RD), XT 7 (BR), XT 13 (BL), and XT 11 (GR).
- Internal Structure:** The diagram shows the internal structure of the tube, including the Y-PLATES (ST1, ST2, ST3, ST4) and X-PLATES (XC 2, XC 1, XC 6, XC 5).
- Control Section:** Includes a FOCUS POT (XG 3) and a GND connection (XG 6).

The diagram is a detailed representation of the tube's internal circuitry, showing the flow of signals from input to output, and the control elements used to adjust the tube's performance.

A	.SCM	CRT BOARD	4008 109 7157	.	<del>89-12-11</del>
71571	.SCM			. 1	<del>90-03-21</del>
AM	.PCB			. 1	91-06-29
04972	.PCB				
NAME SML/BBN /ML /SM /SRJ			1 SH SH - 130 - 1	.	
KU	DK-AUDIO DK-2730 HERLEV			DAT	89-02-27
					A4H

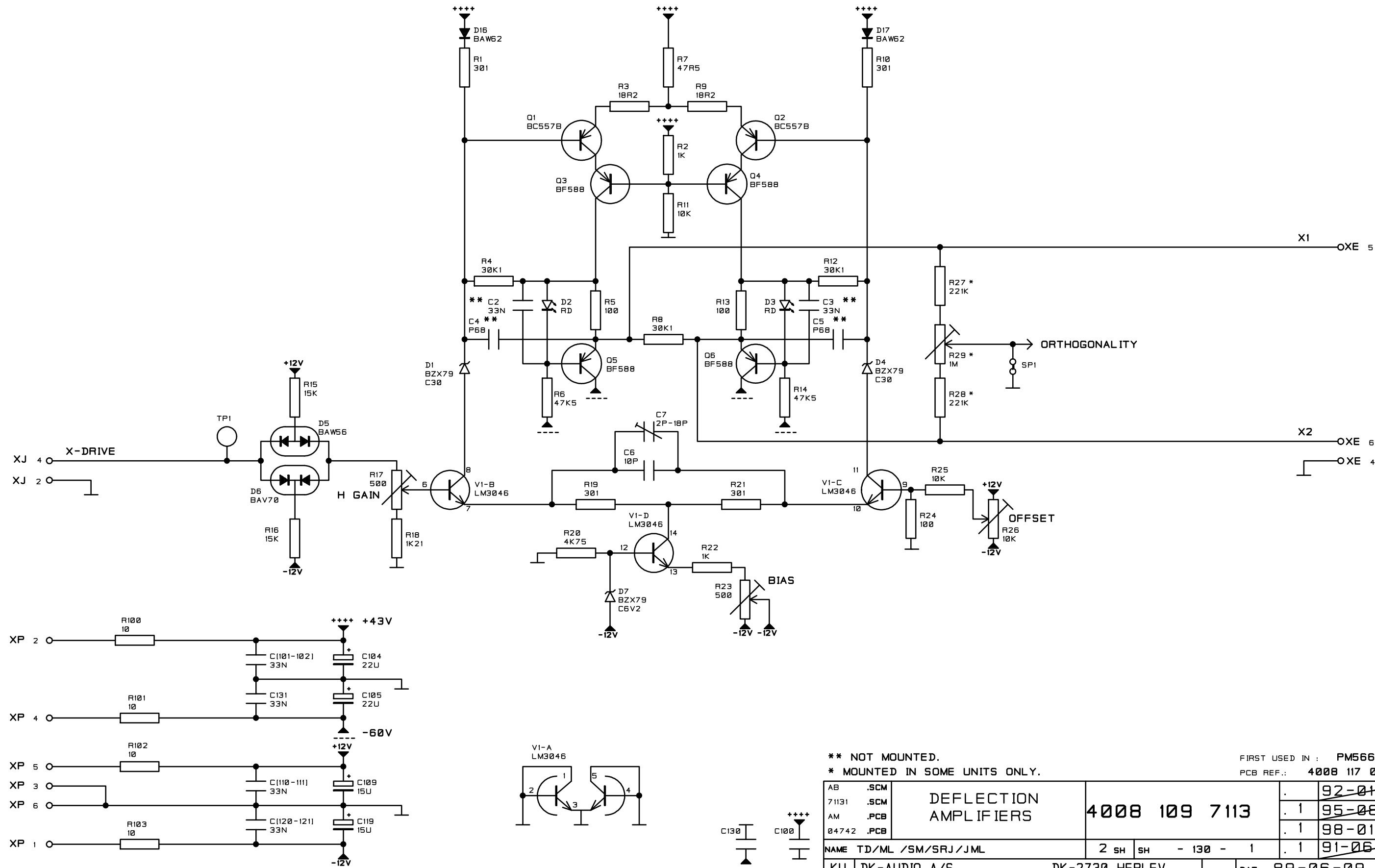


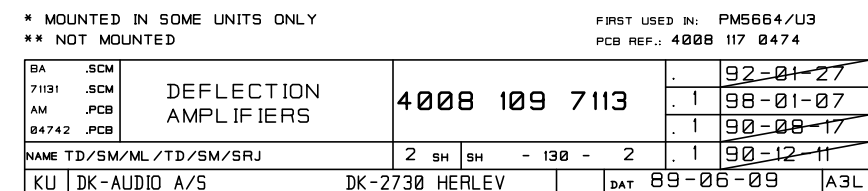


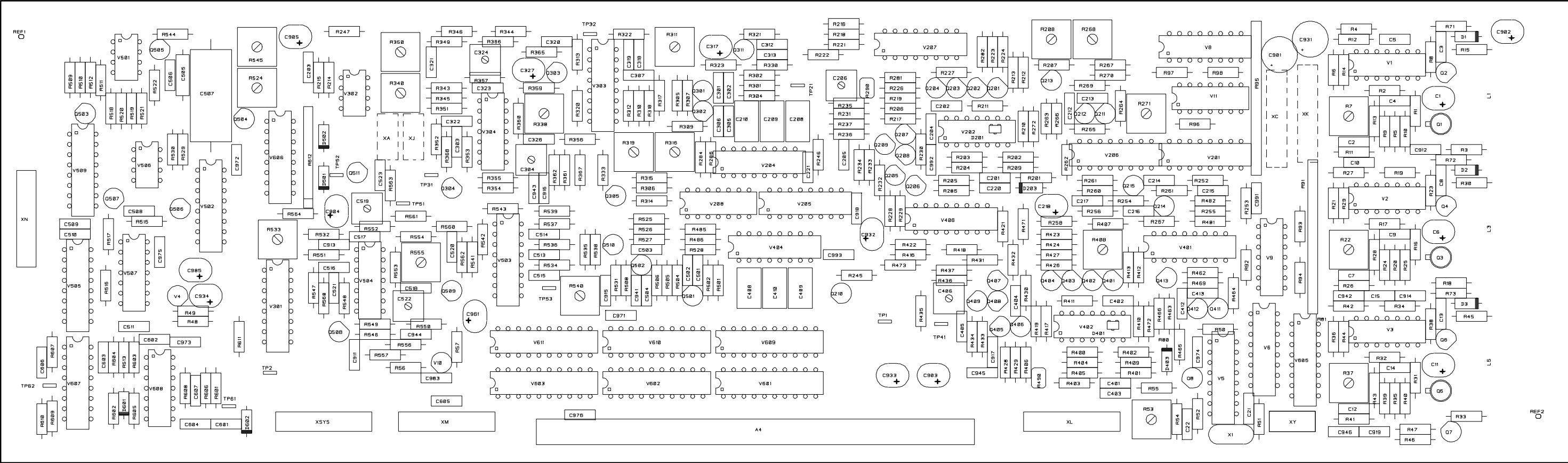


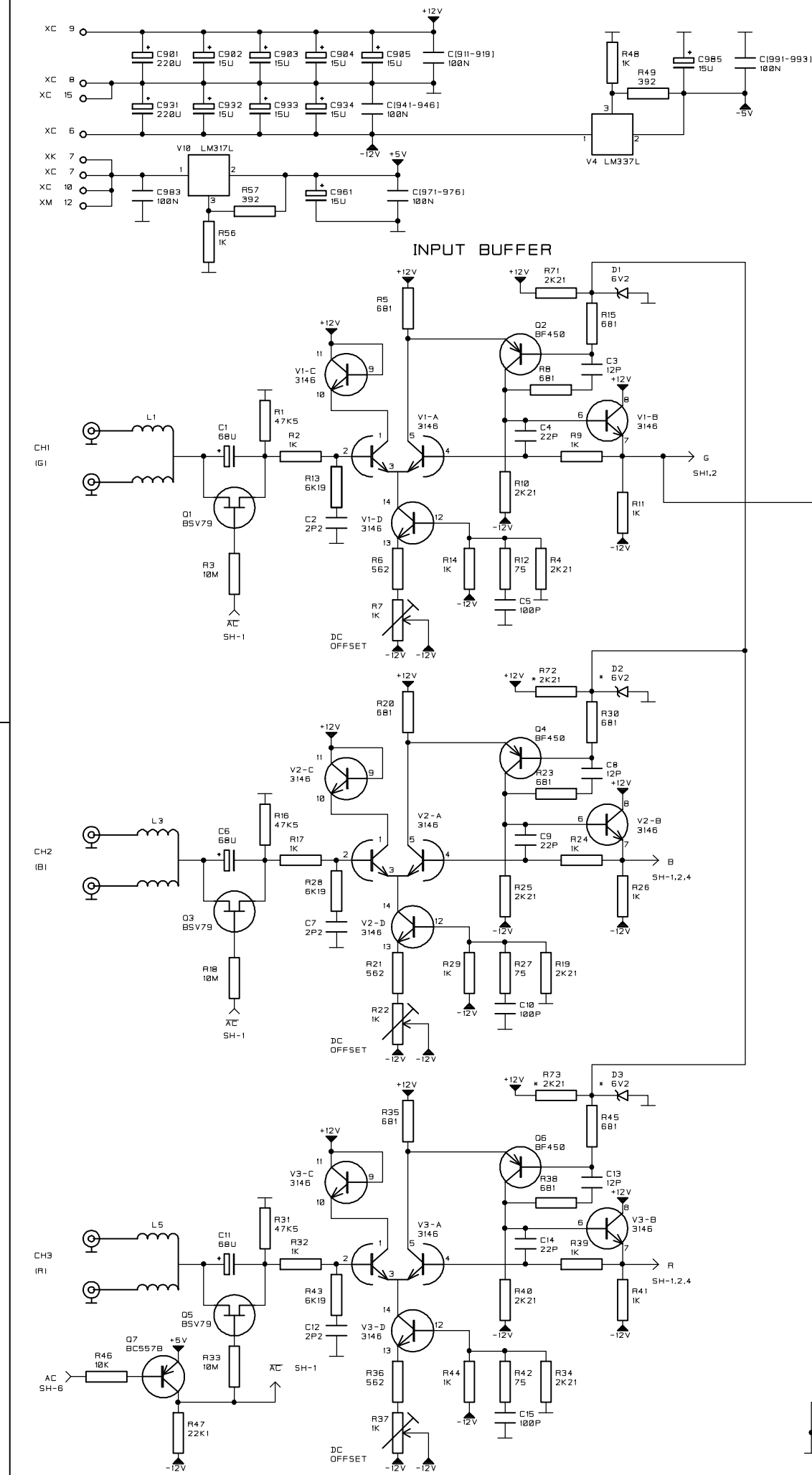
UNIT 3 - Deflection Board

HORIZONTAL OUTPUT AMPLIFIER

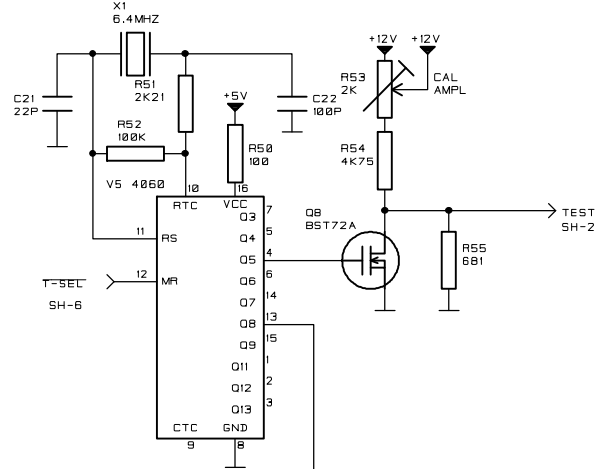




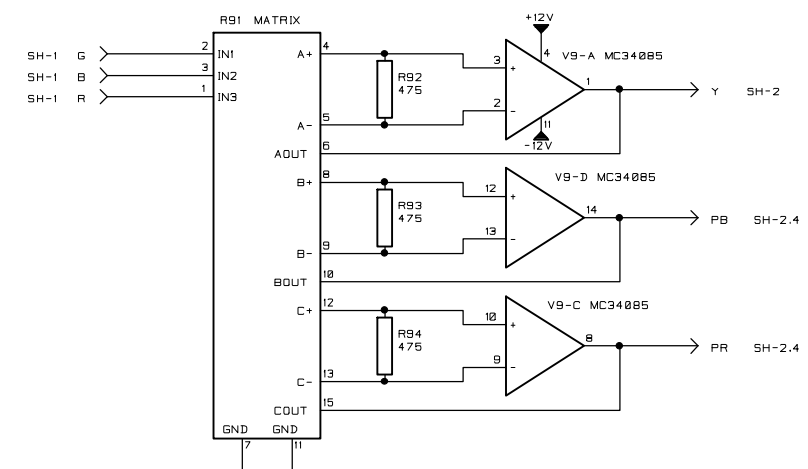




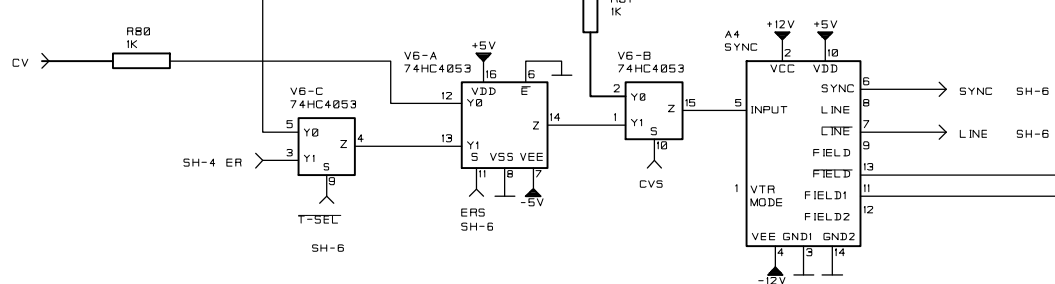
### CALIBRATION - GENERATOR



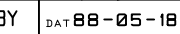
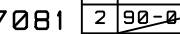
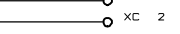
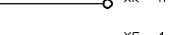
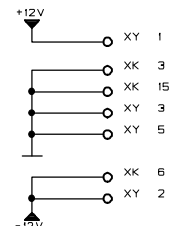
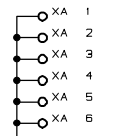
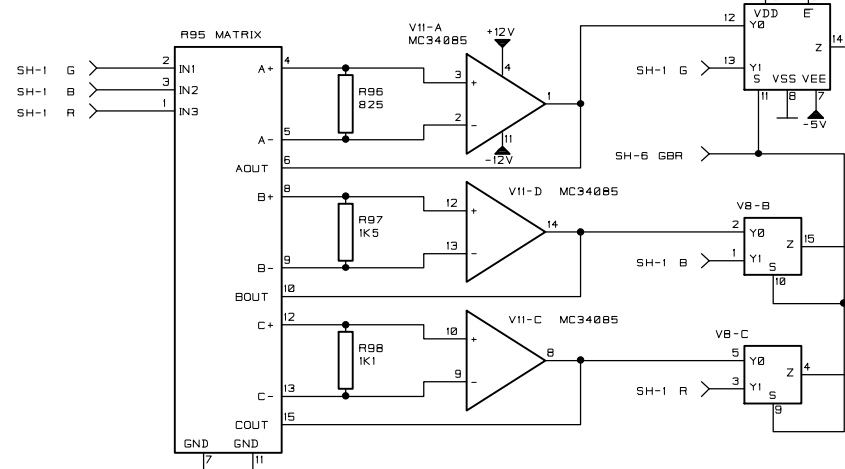
### DISPLAY MATRIX



### SYNC-SEPARATOR



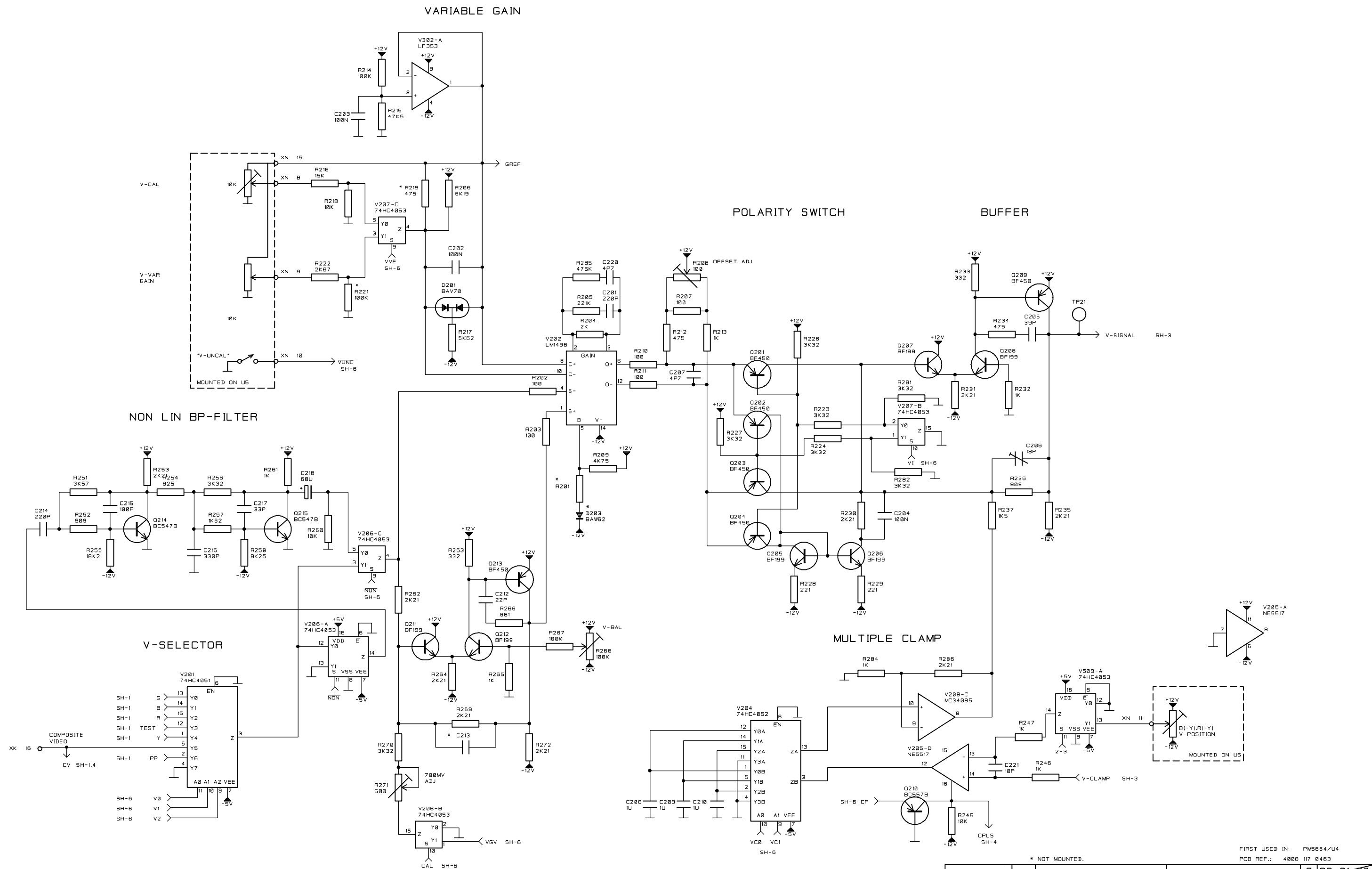
### MØNITOR MATRIX



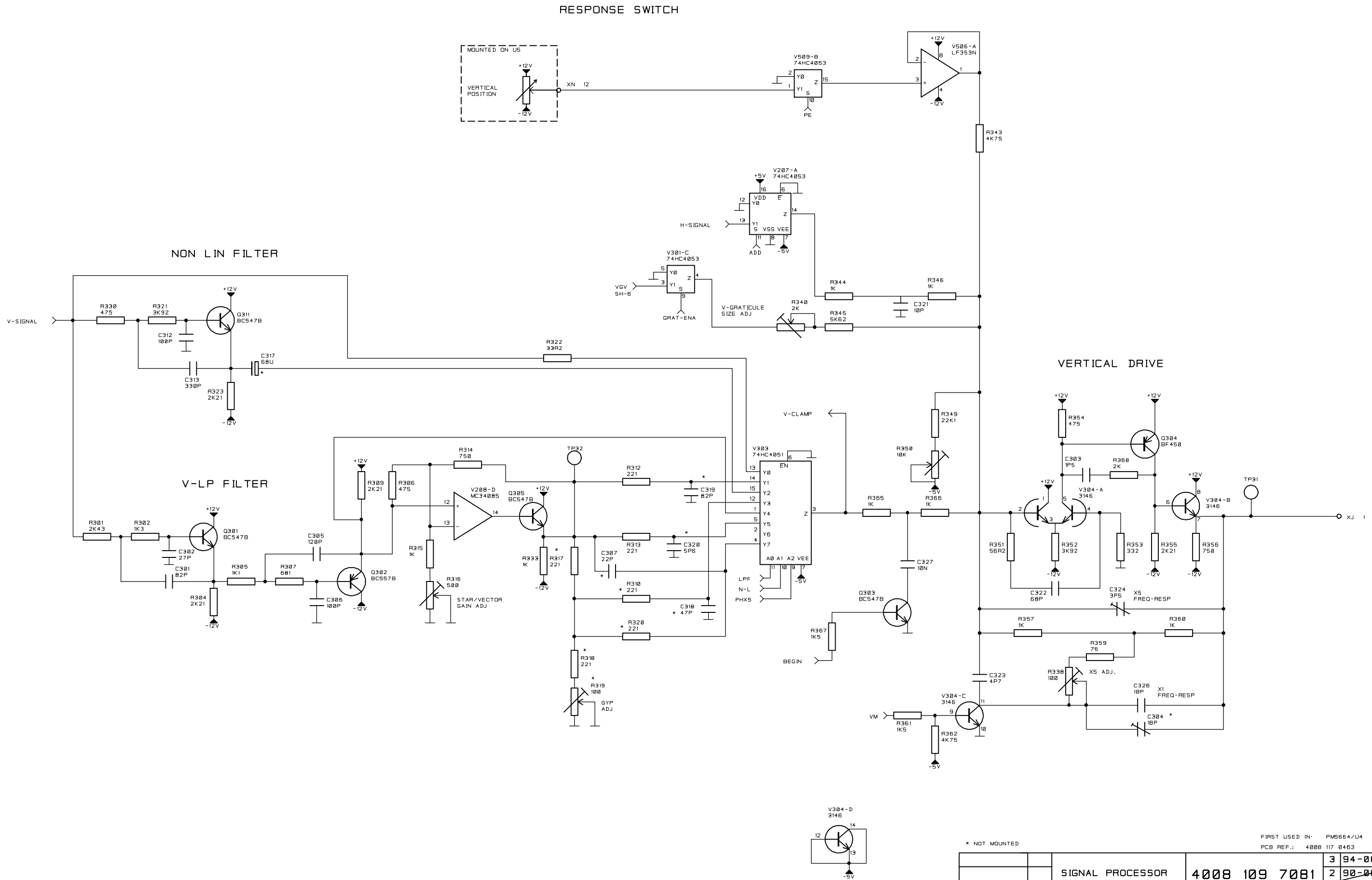
\* NOT MOUNTED

FIRST USED IN: PM5664/U4  
PCB REF.: 4008 109 7081

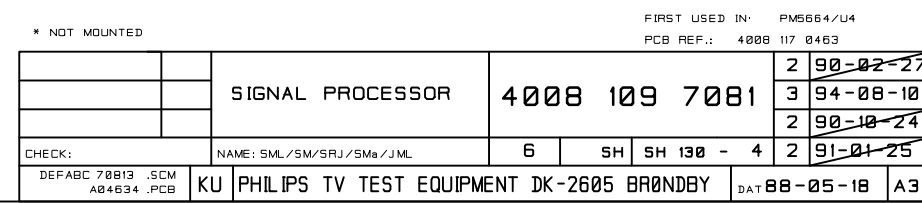
SIGNAL PROCESSOR		4008 109 7081	3 94-08-10
CHECK:		NAME: T.O.D./SM/ML/SMs/J.M.L.	2 90-06-13
ABCDEF 70813 .SCM		6 SH SH 130 - 1	2 91-03-13
A04634 .PCB		KU PHILIPS TV TEST EQUIPMENT DK-2605 BRØNDØY	2 92-01-27
		DAT 88-05-18	A3



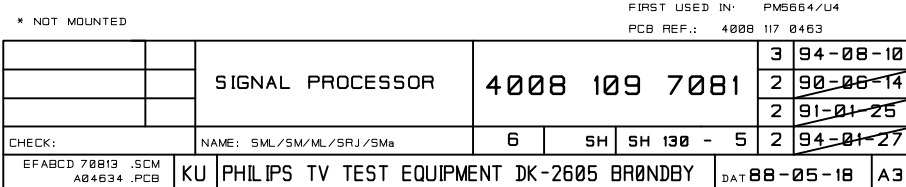
PROPERTY OF PHILIPS ELECTRONIC INDUSTRIAL A/S  
ALL RIGHTS STRICTLY RESERVED

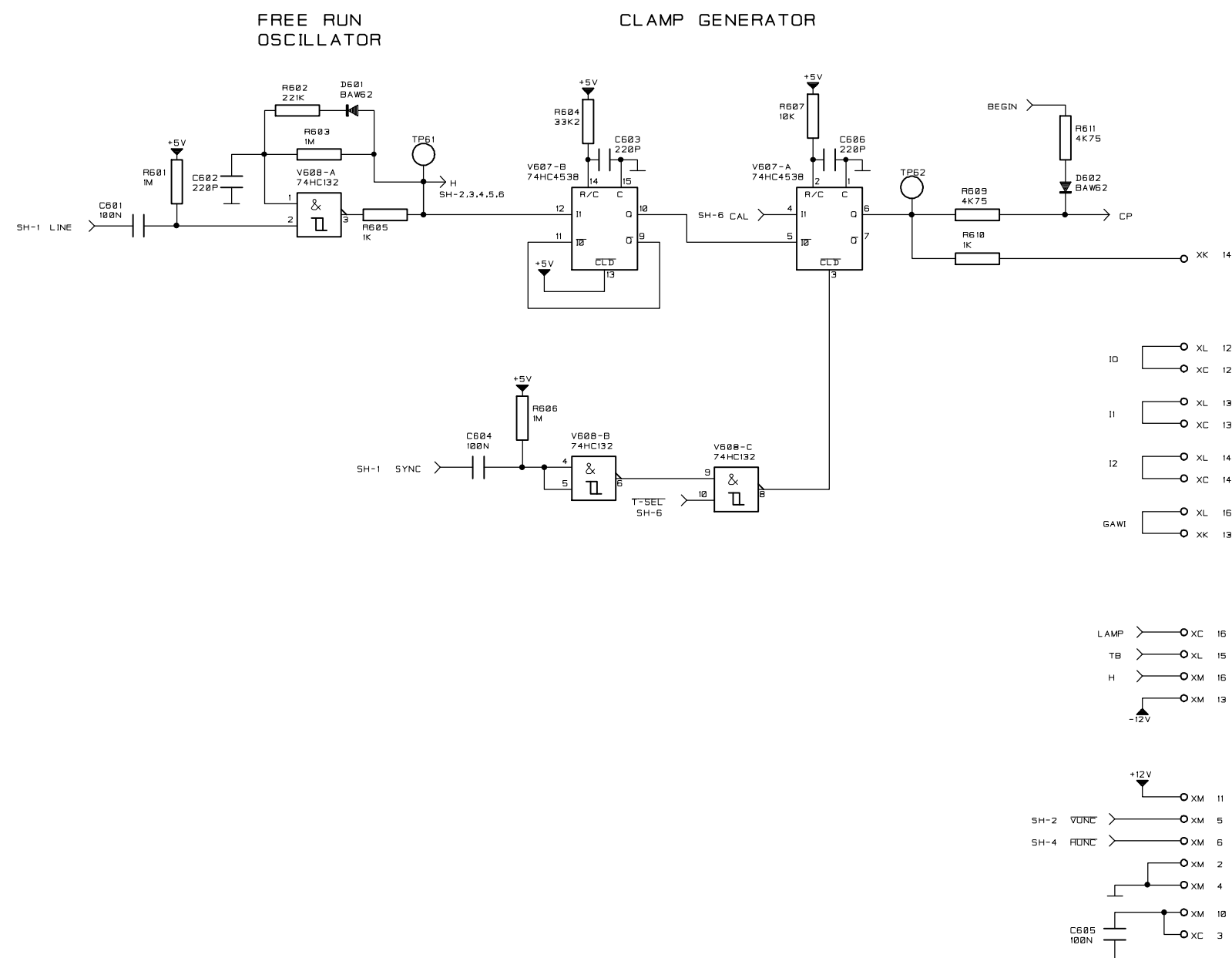


* NOT MOUNTED		FIRST USED IN: PM5664/U4	
		PCB REF.: 4008 117 0463	
		SIGNAL PROCESSOR	4008 109 7081
		3	94-08-10
		2	90-08-14
		2	90-08-17
CHECK: CABDEF 70813 .SCM A04634 .PCB		NAME: BLI/SM/ML/SMa	6 SH SH 130 - 3
KU PHILIPS TV TEST EQUIPMENT DK-2605 BRØNDBY		DAT 88-05-18	A3



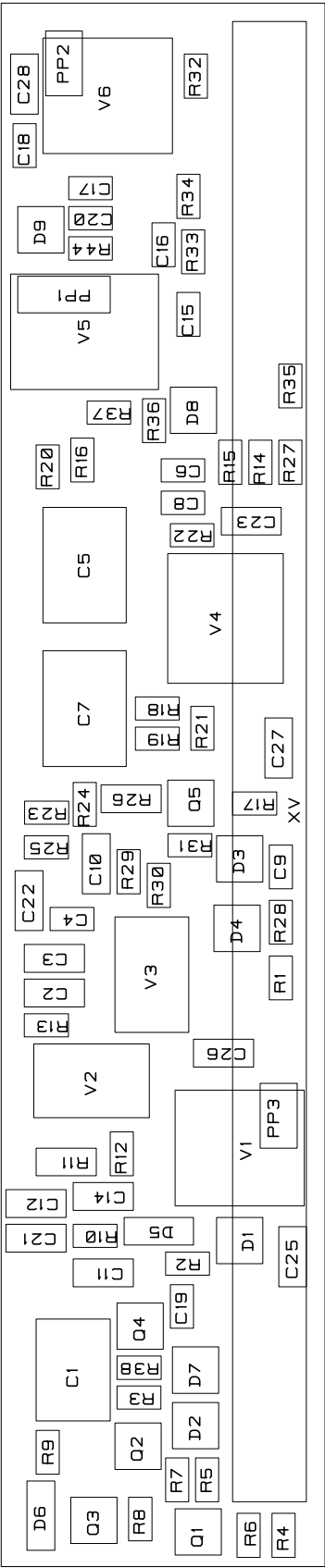






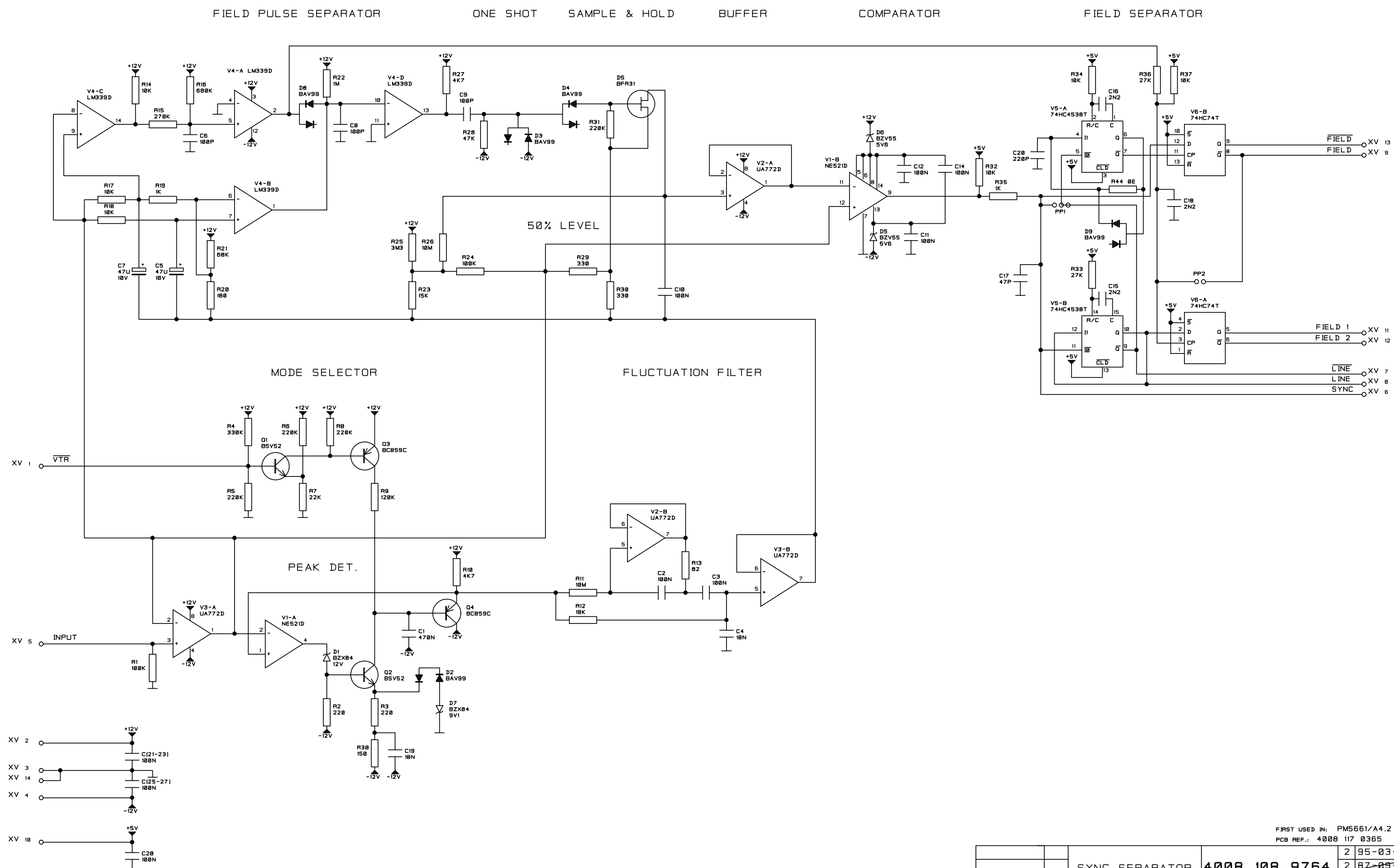
FIRST USED IN: PM5664/U4  
PCB REF.: 4008 117 0463

		SIGNAL PROCESSOR		4008 109 7081		3 94-08-10	
						2 90-08-14	
						2 91-08-19	
CHECK:		NAME: 5ML/5M/SL/SRJ/5Ma		6 SH SH 130 - 6		2 92-01-27	
FABCD 78813 SCM A84634 PCB		KU PHILIPS TV TEST EQUIPMENT DK-2605 BRØNDØY					DAT 88-05-18 A3

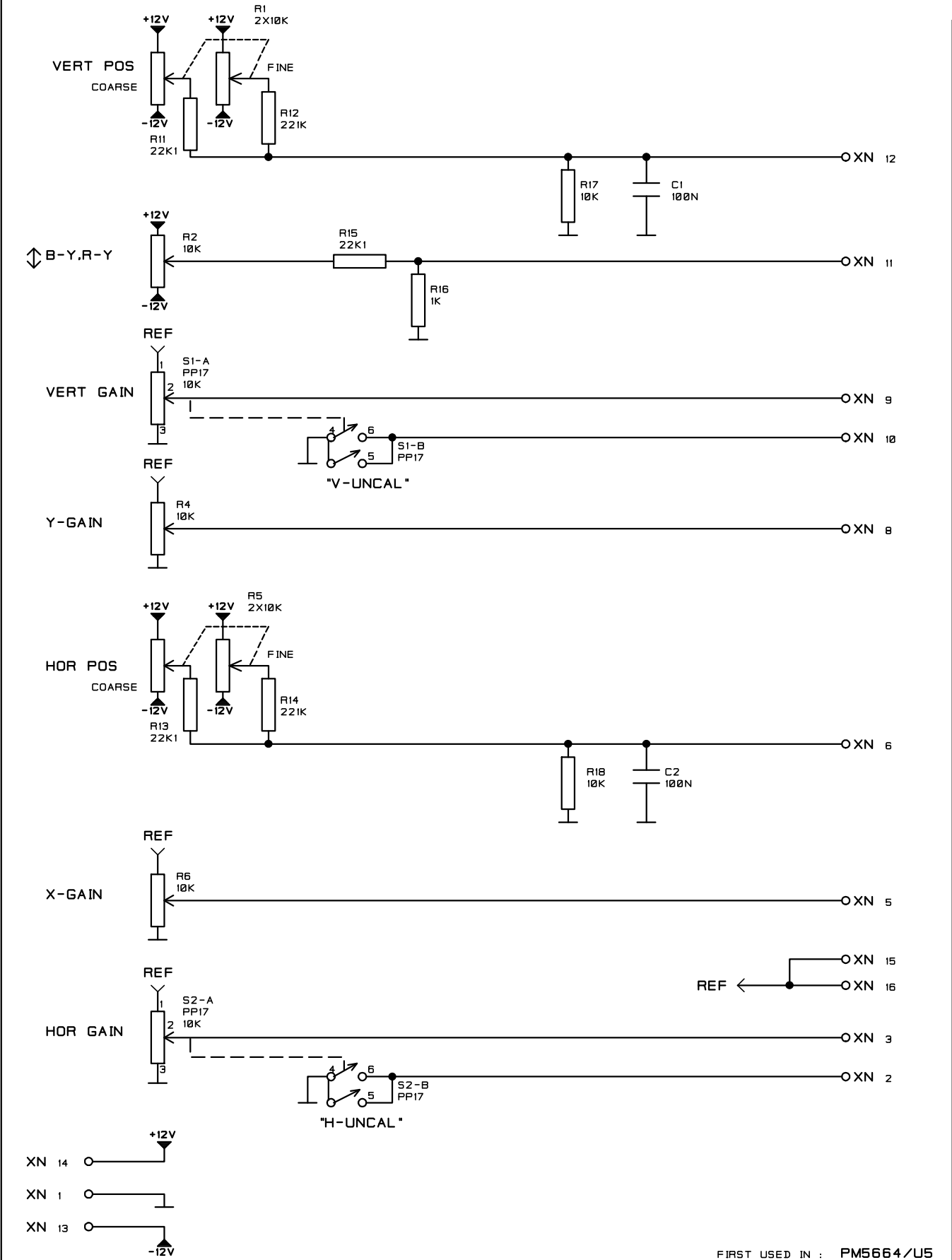
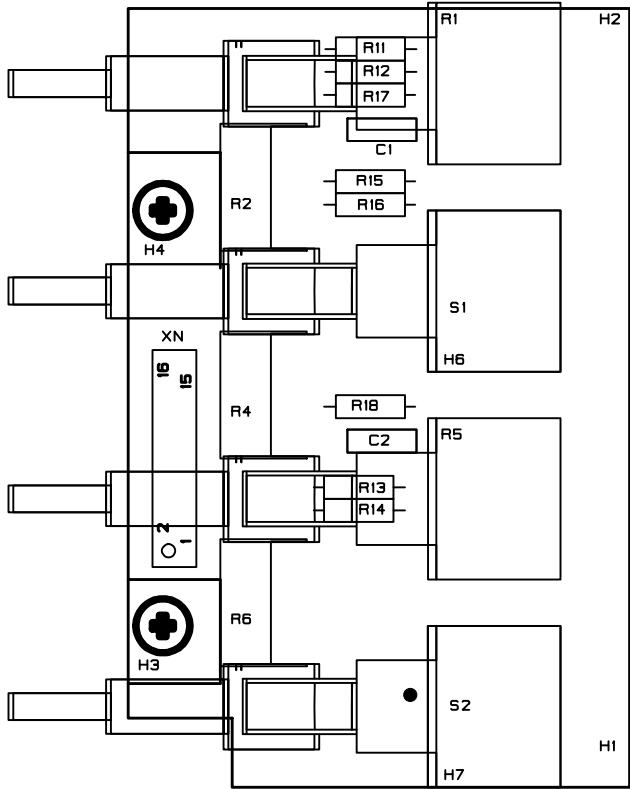


Unit 4.1 Signal processor subassembly: Sync separator

SYNC.AND FIELD SEPARATOR



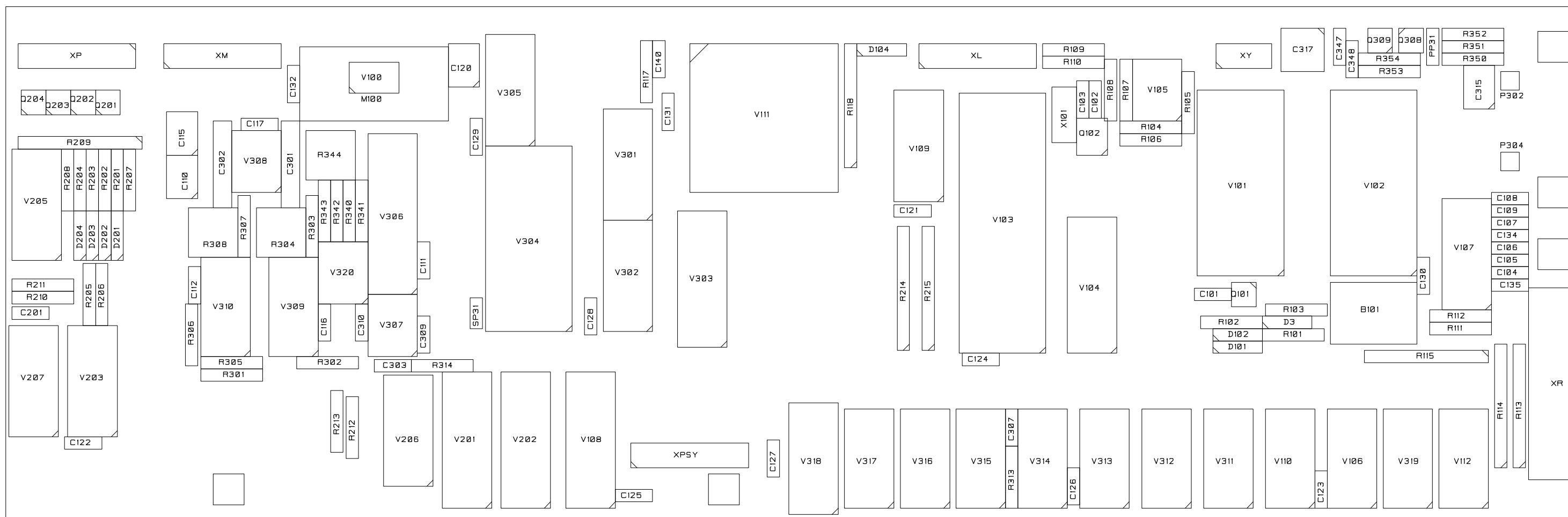
							2	95-03-01		
		SYNC SEPARATOR					4008 108 9764	2	87-09-05	
								2	88-01-12	
CHECK:	NAME: HA.I./SM/JML						2 SH	SH 130 - 2	2	88-03-16
AX 97642.SCM A03654.PCB		KU	DK-AUDIO A/S		DK-2730	Herlev		DAT.	86-01-28	A3L



A .SCM		POTMETER BOARD	4008 109 7083			. 1	89-12-15			
70832	.SCM					. 2	00-03-11			
	.PCB									
A04644	.PCB									
NAME SML /ML /SM /JML			1	SH	SH	- 130	- 1	.		
KU	DK-AUDIO A/S			DK-2730 HERLEV				DAT	88-06-06	A3L

FIRST USED IN : PM5664/U5  
PCB REF.: 4008 117 0464

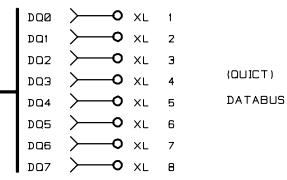
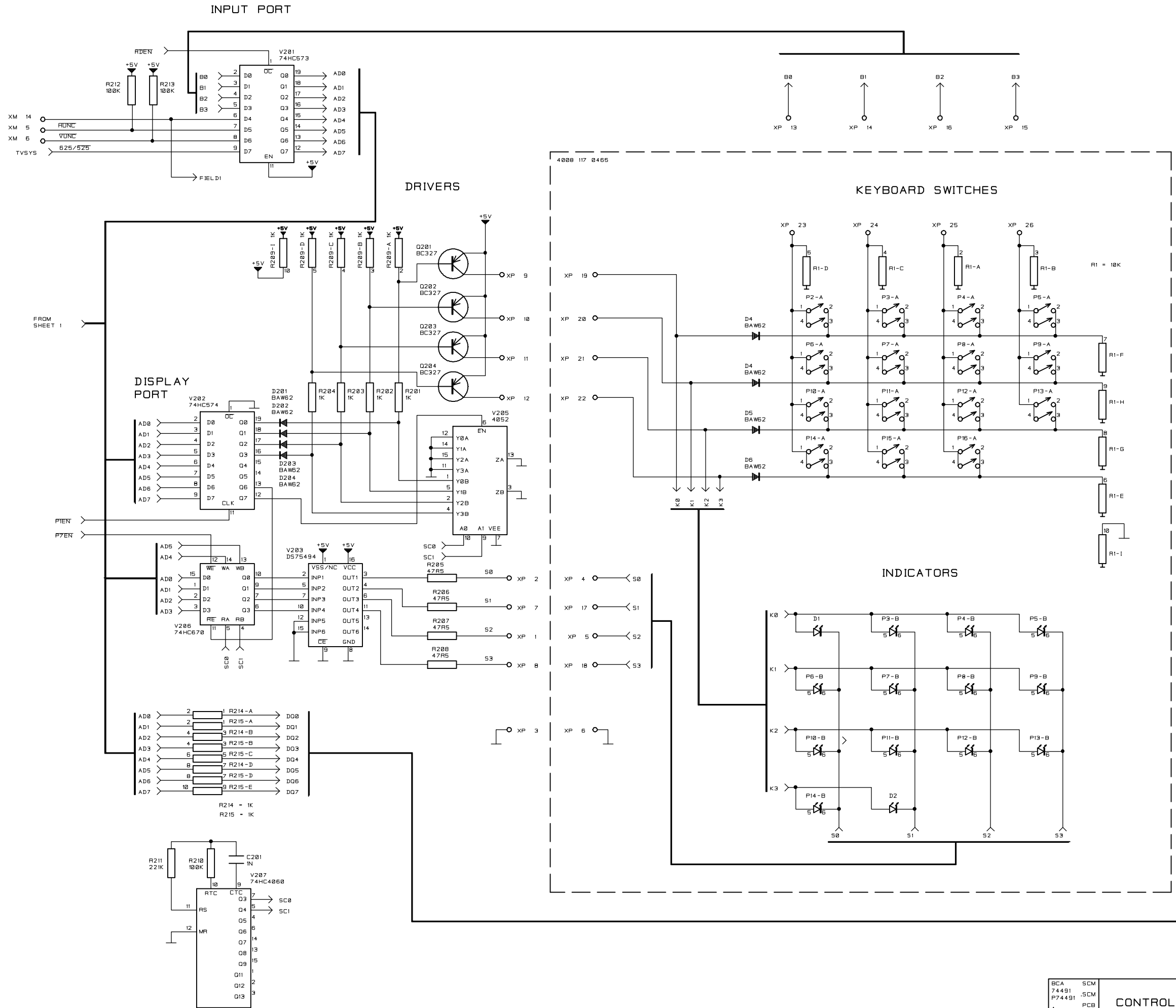






KU	PHILIPS TV TEST EQUIPMENT DK-2605 BRØNDBY	DAT	88-08-18	A3L
----	---	-----	----------	-----



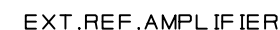
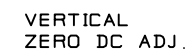


(OUICT)  
DATABUS

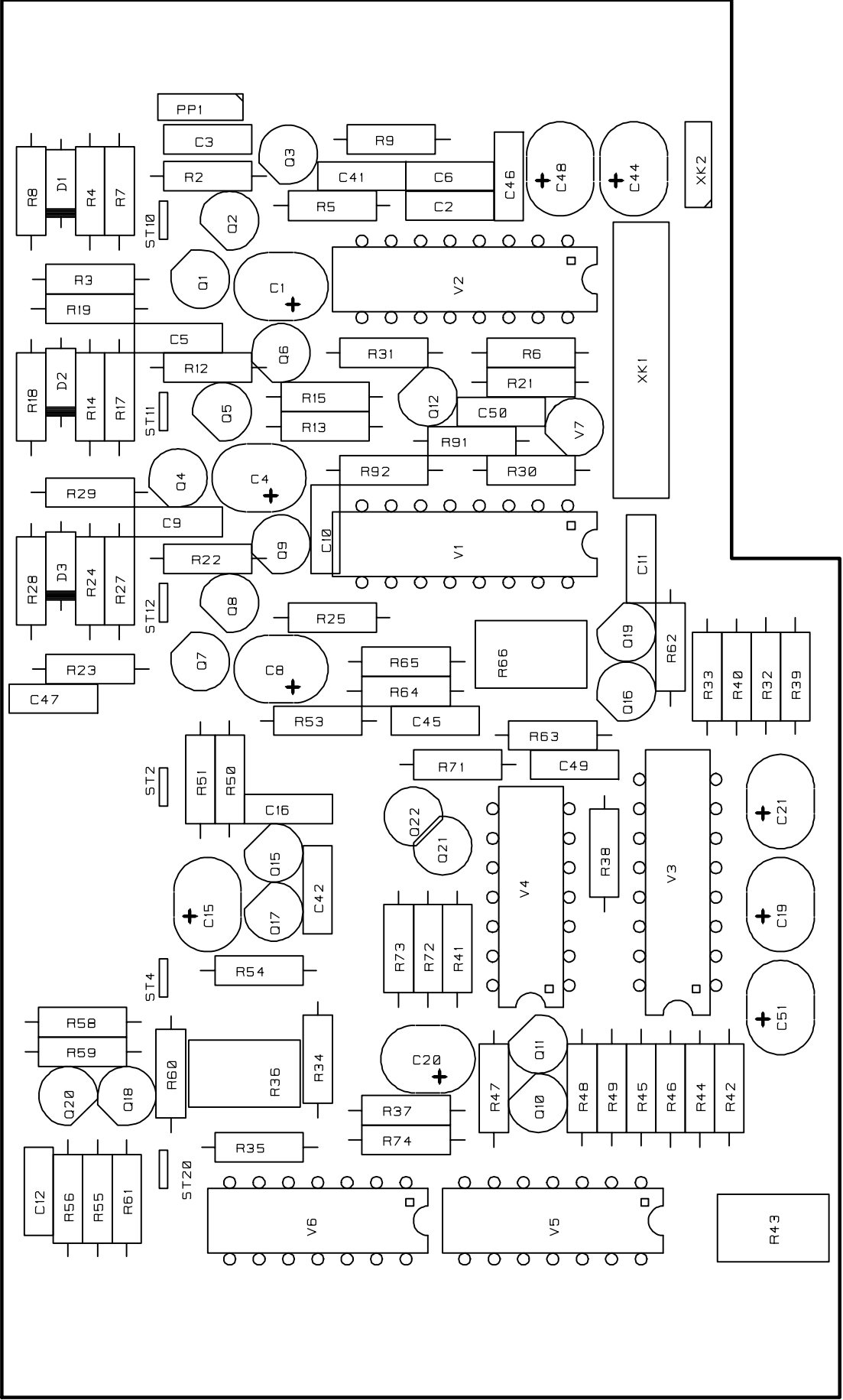
FIRST USED IN: PM 5664/U7  
PCB REF.: 4008 117 0530

BCA 74491 P74491 A 05301	SCM .SCM PCB .PCB	CONTROL BOARD	4008 109 7449	. 1	91-03-14
NAME TD/ML /SM		3 SH	SH	- 130 -	2
KU PHILIPS TV TEST EQUIPMENT DK-2605 BRØNDBY		DAT		88-08-19	A3L

DAC



CAB .SCM 74491 P74491 SCM A .PCB 05301 PCB	CONTROL BOARD	4008 109 7449	1 91-03-14 1 94-07-04
		M.B.	
NAME TD/ML /SM/JML	3 SH SH - 130 - 3		
KU PHILIPS TV TEST EQUIPMENT DK-2605 BRONDBY		DAT	88-08-17 A3



UNIT 8 - GBR Board

