

# PT 5230 Digital Video Generator



## Service Manual – section 2:

### 17-1 Diagrams and component placements.

#### Main Unit

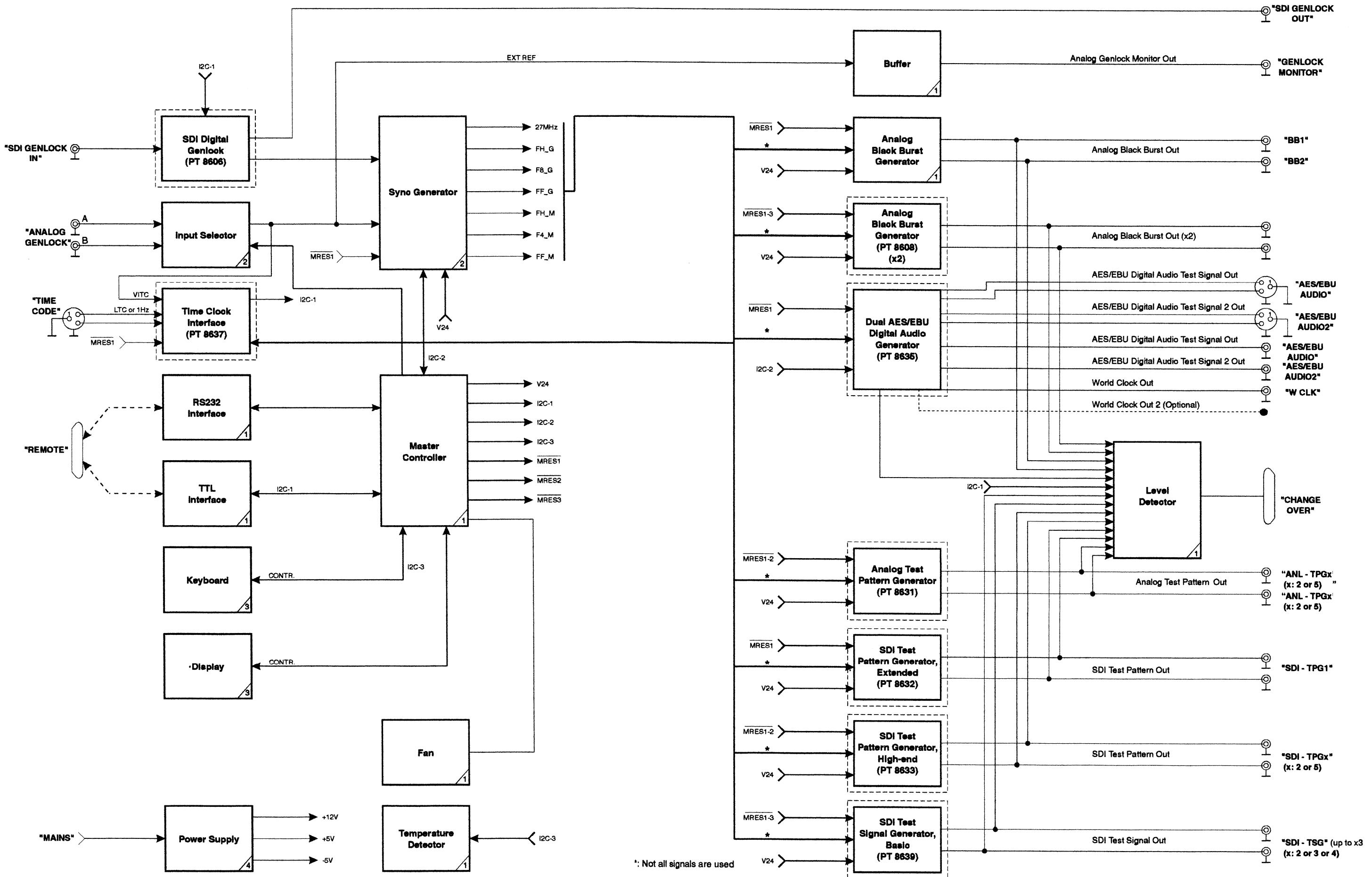
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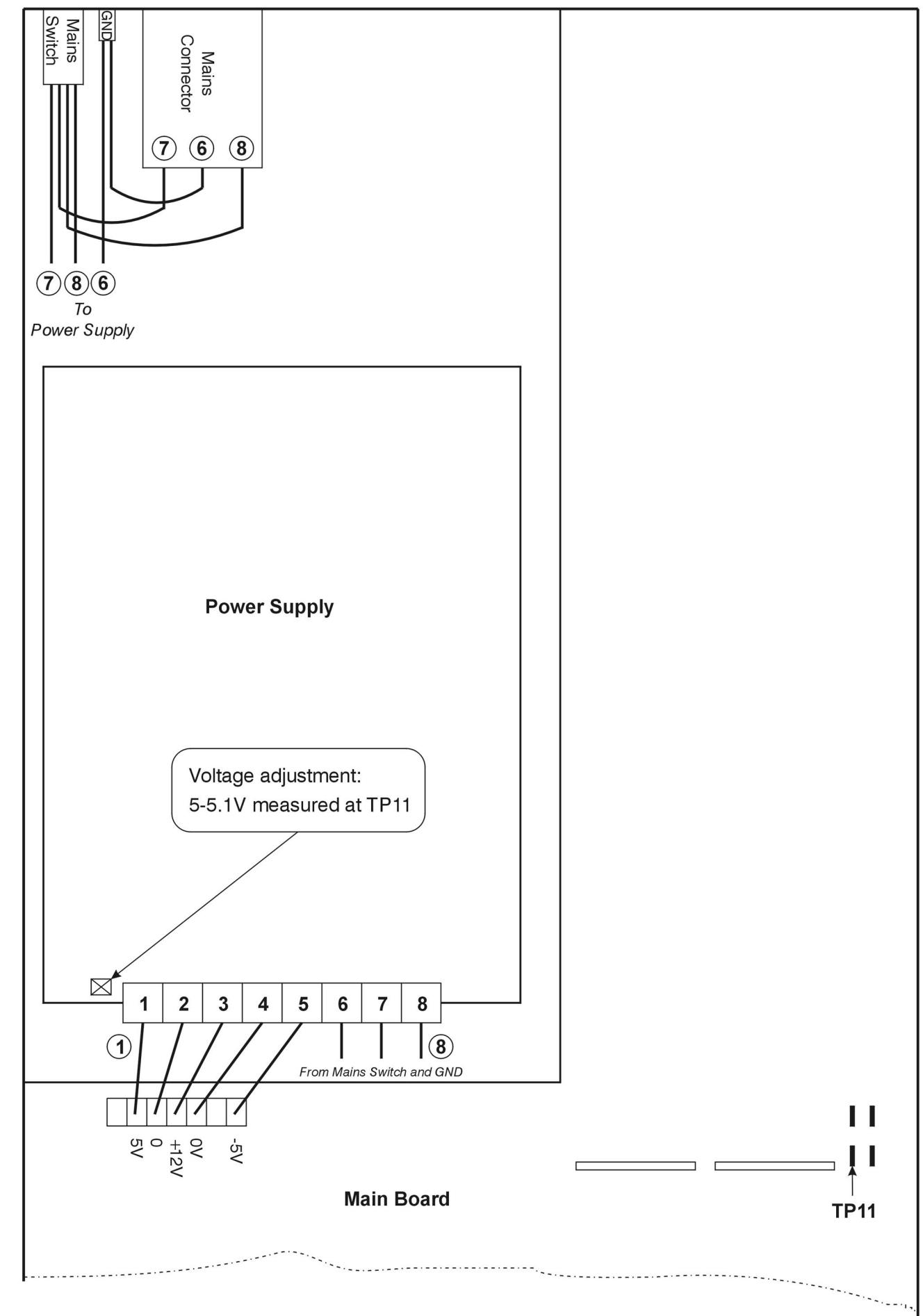
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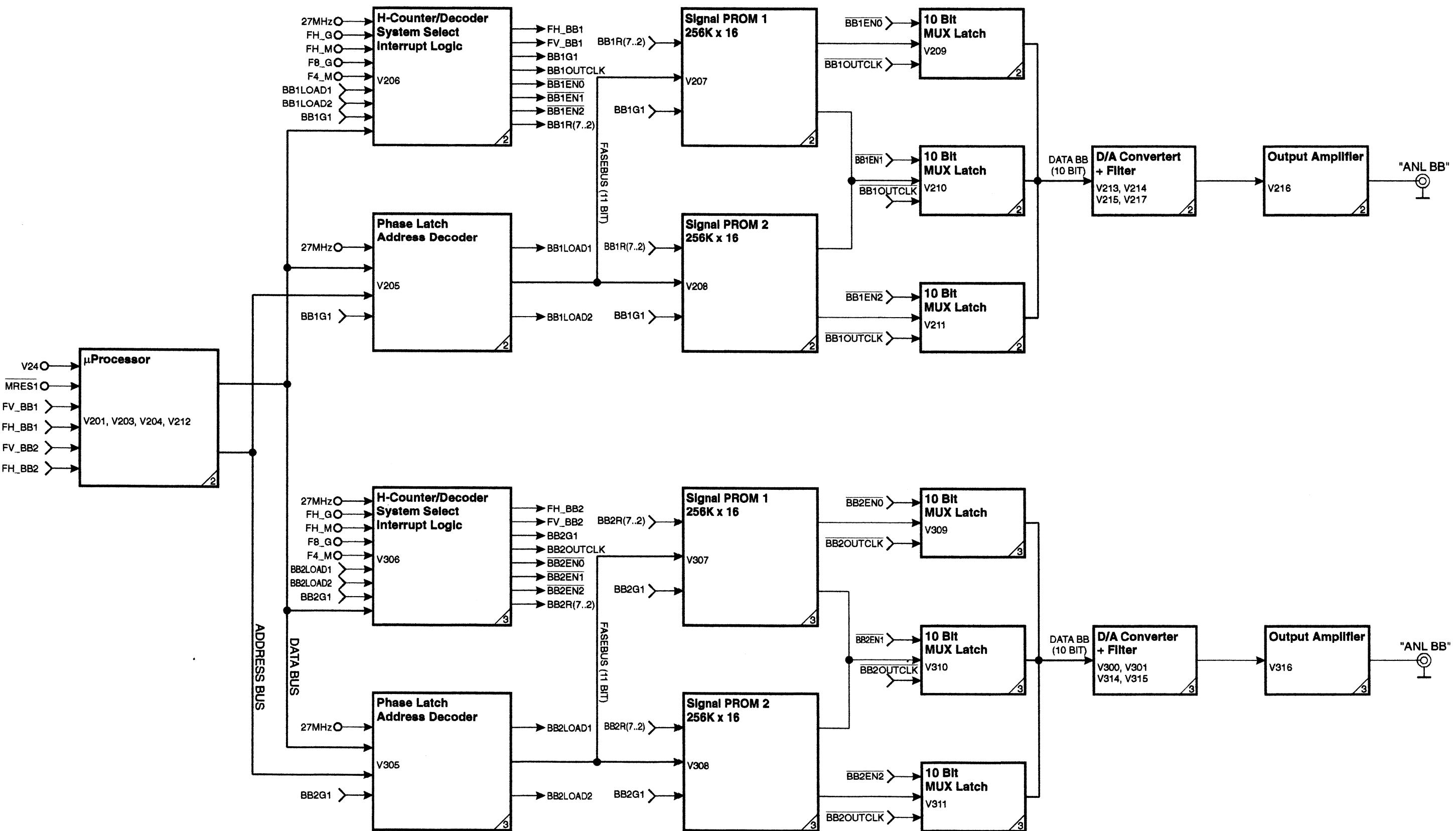
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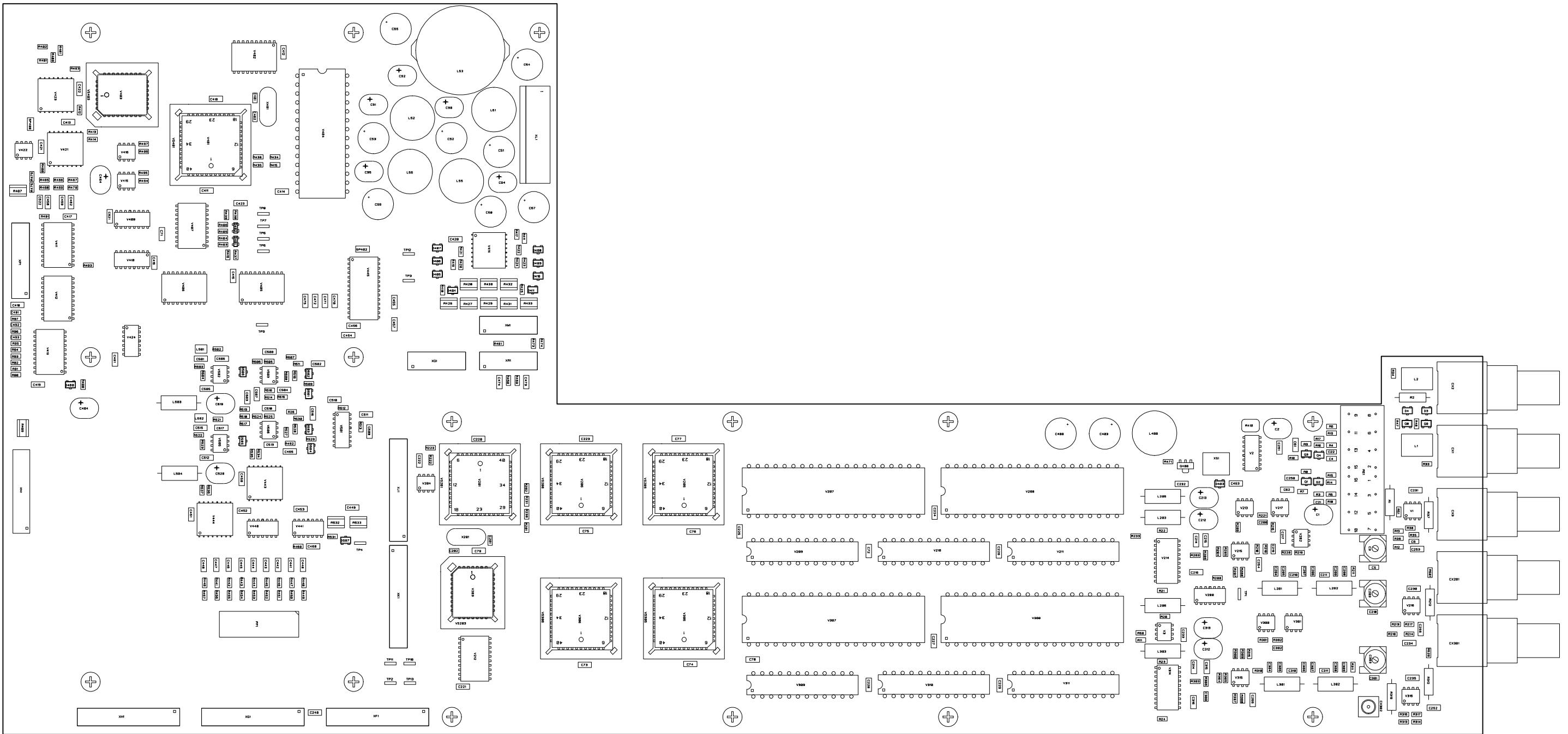
Instrument Block diagram



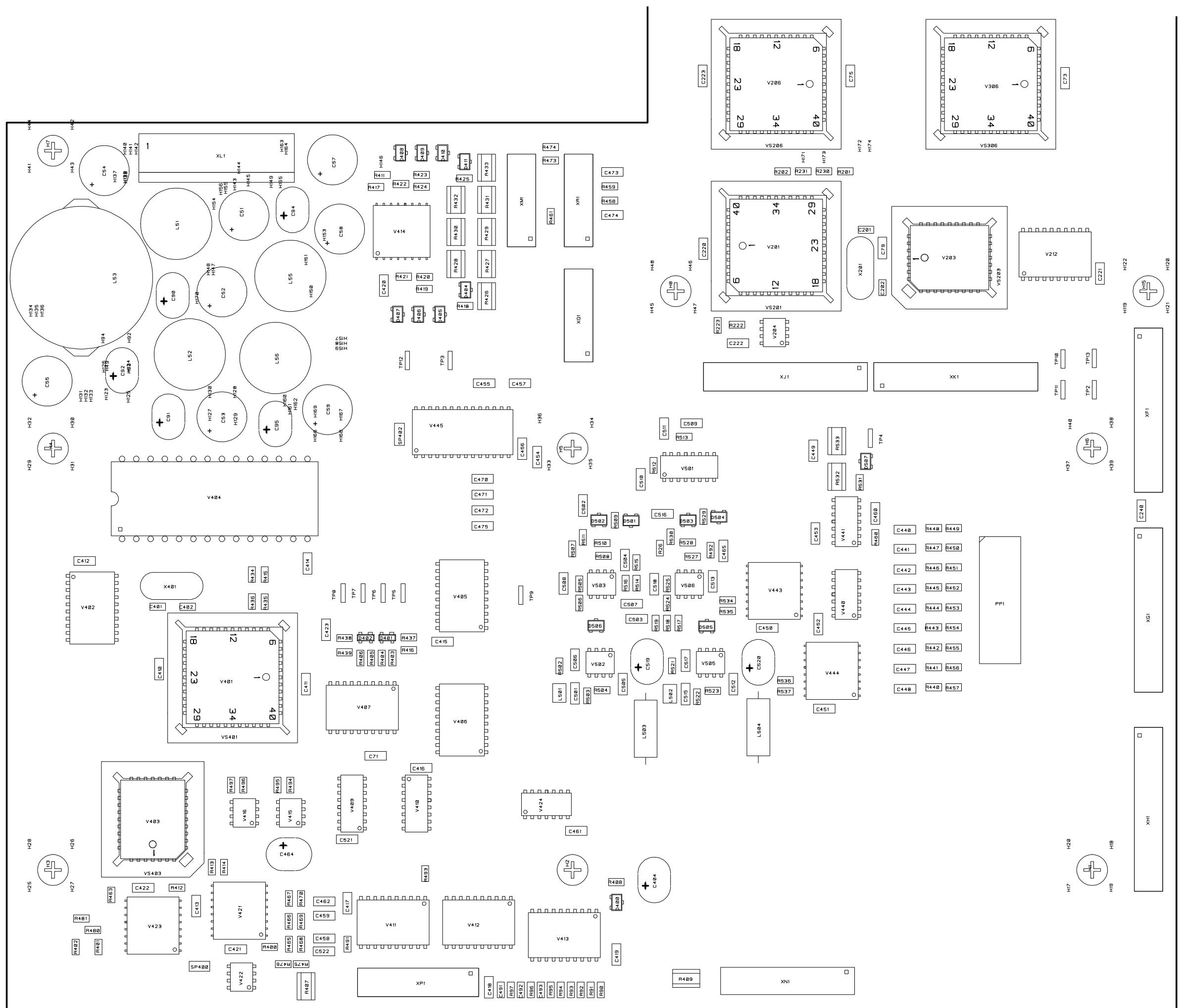
Power supply connections



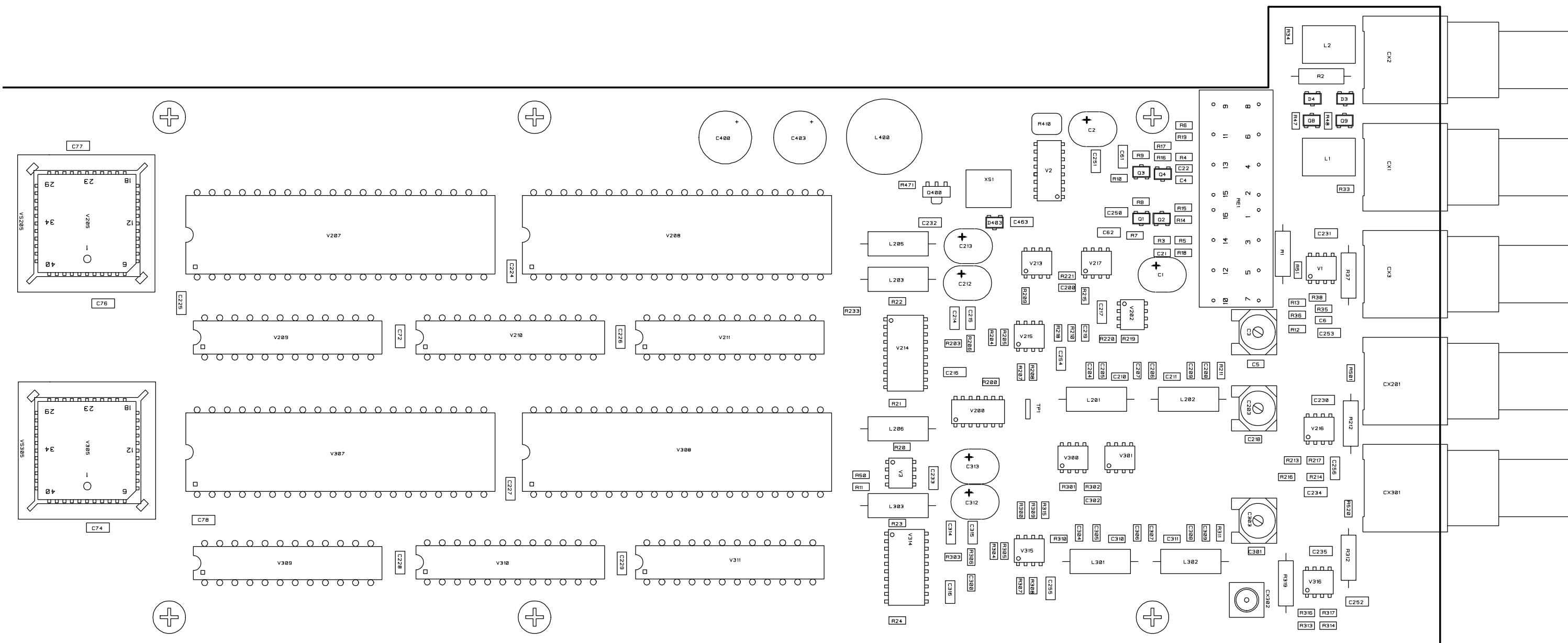
Blockdiagram Mainboard



Mainboard - full

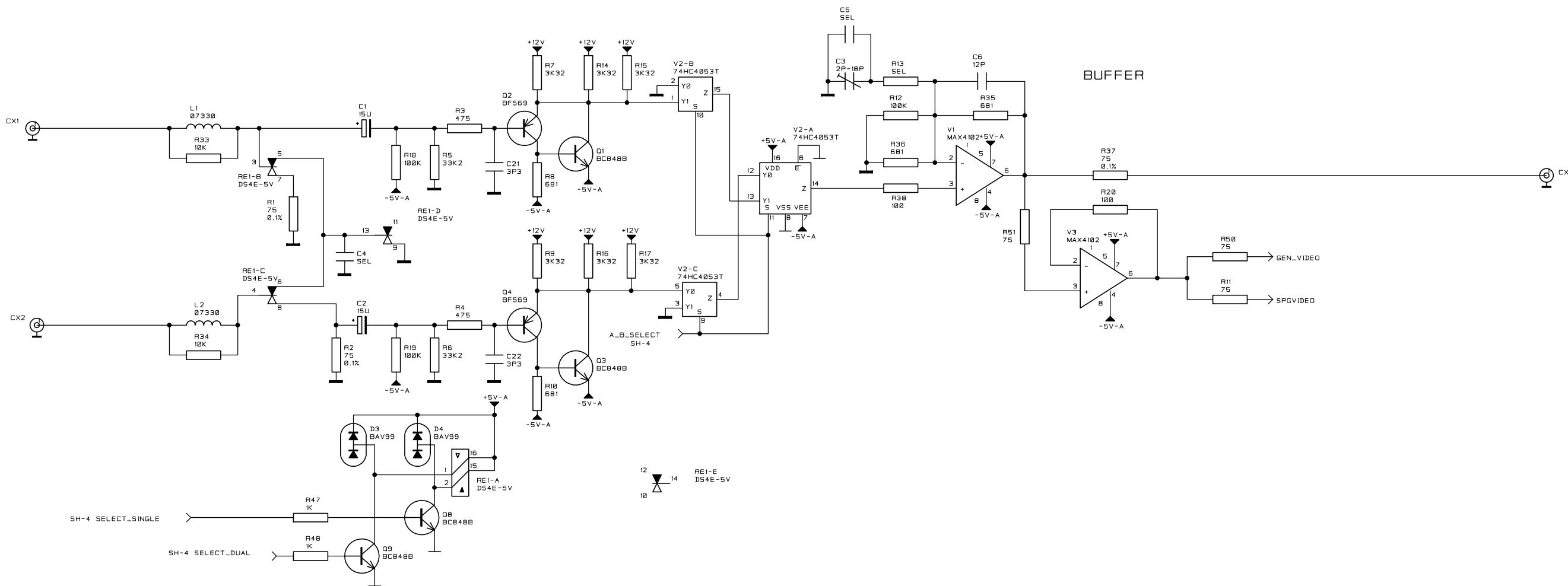


## Mainboard - part 1

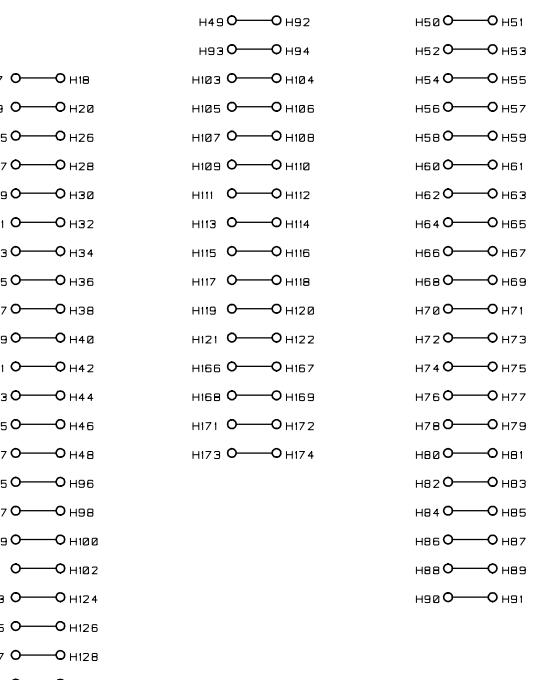
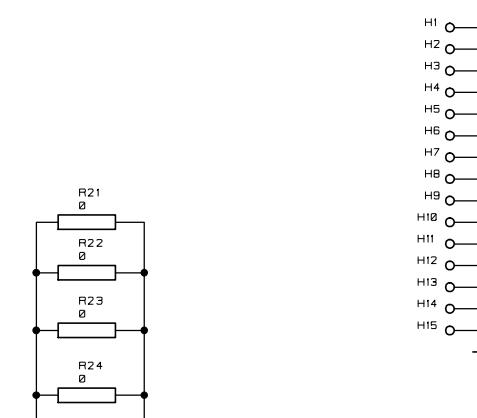
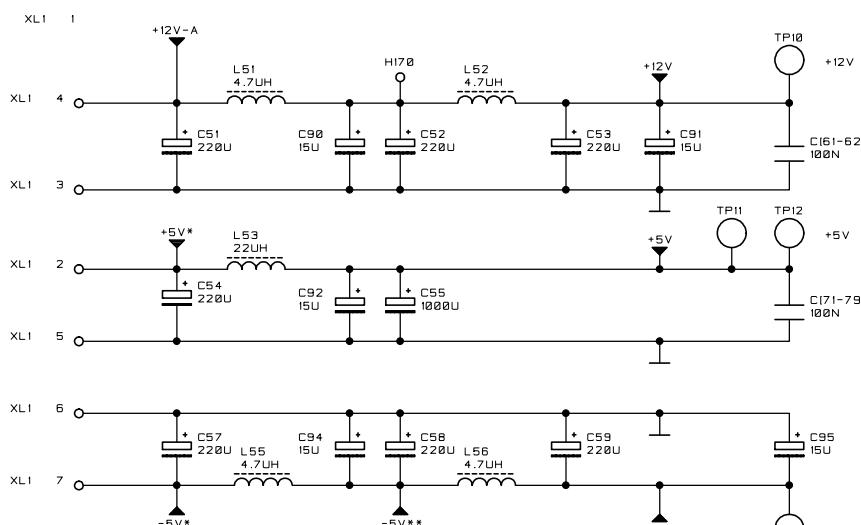


## Mainboard - part 2

## INPUT SELECTOR



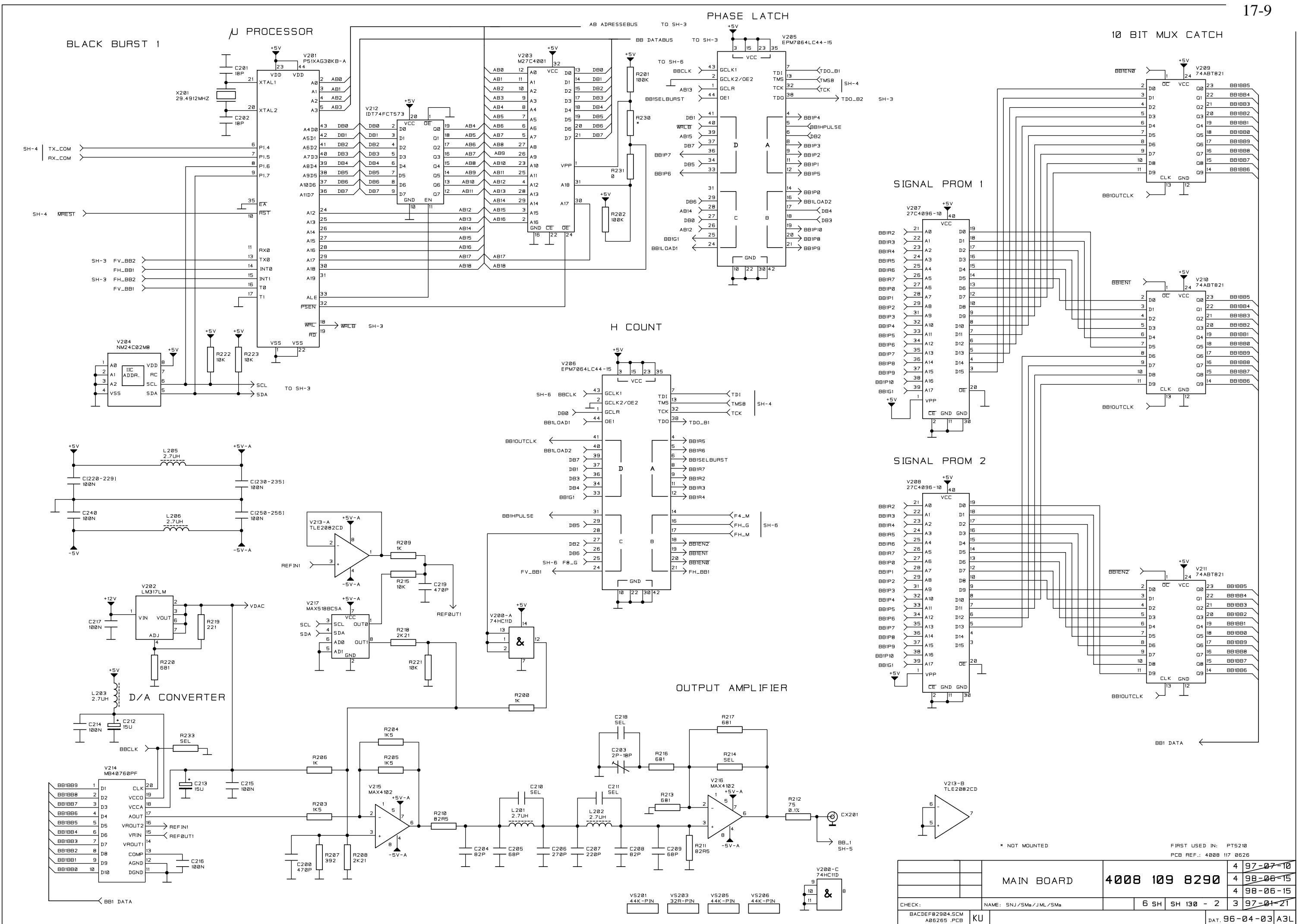
## BUFFER



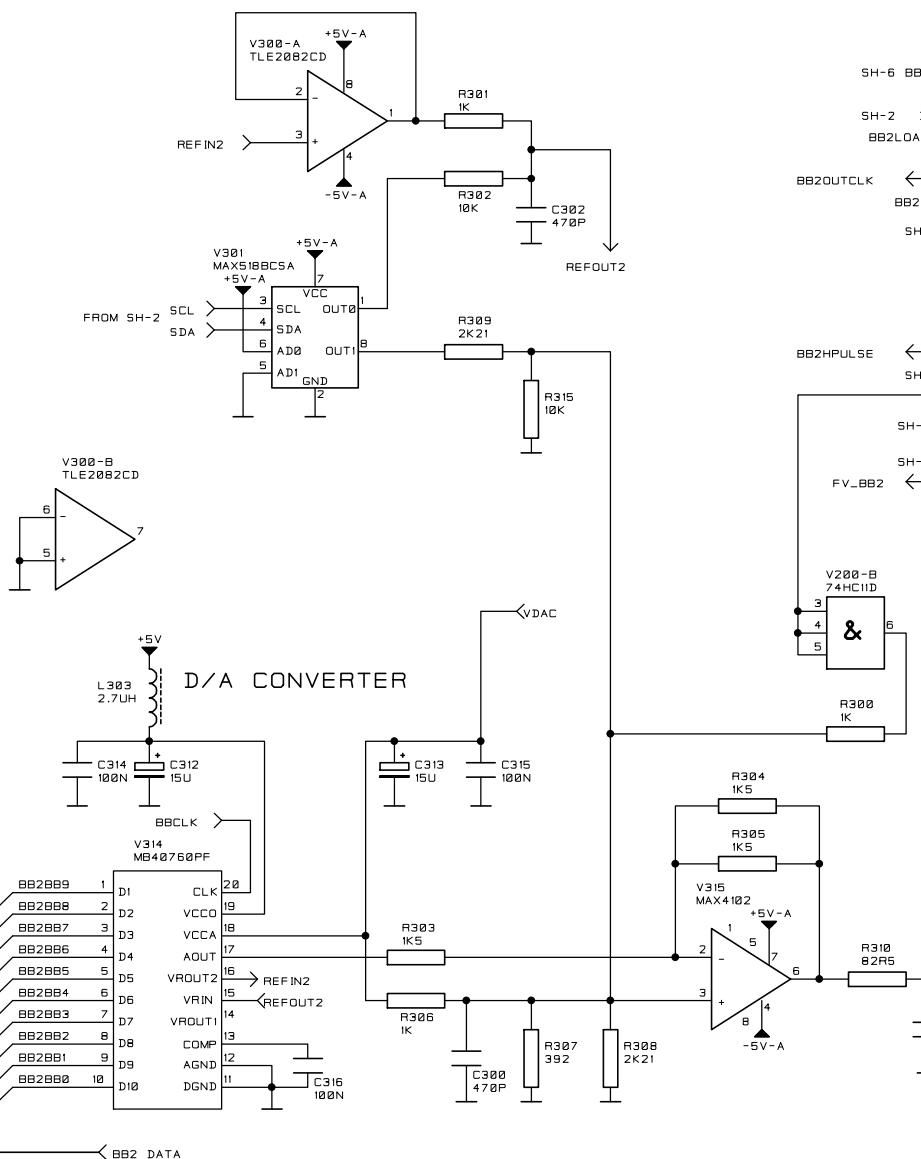
MAIN BOARD		4008 109 8290	
CHECK:		NAME: PF/SMa / JM/SMa	
ABCDEF82984.SCM	KU	6 SH	SH 130 - 1
A88285.PCB		3	97-01-21

3	97-06-27
4	97-07-10
4	98-06-15

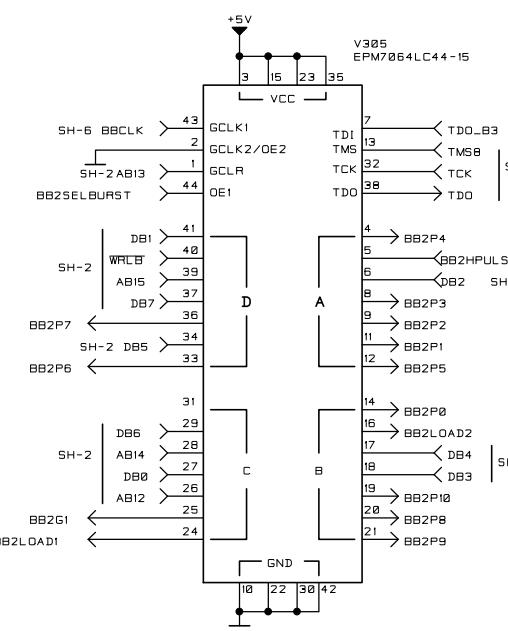
DAT. 96-04-03 A3L



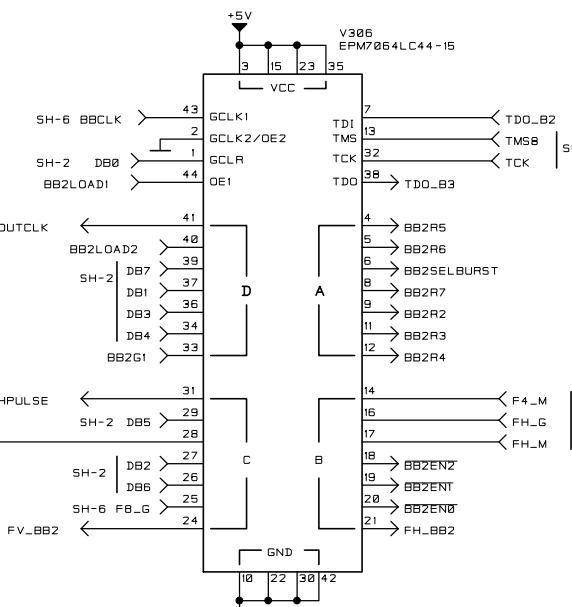
BLACK BURST 2



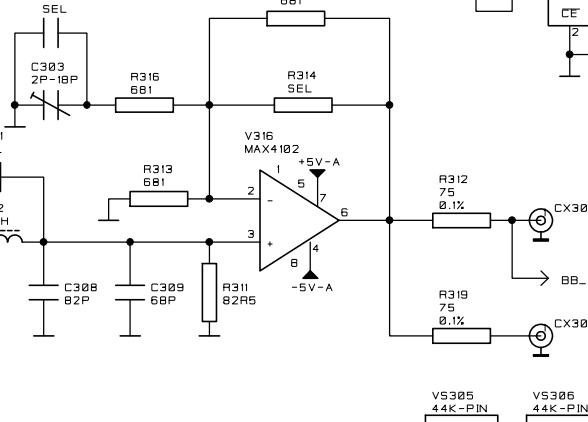
PHASE LATCH



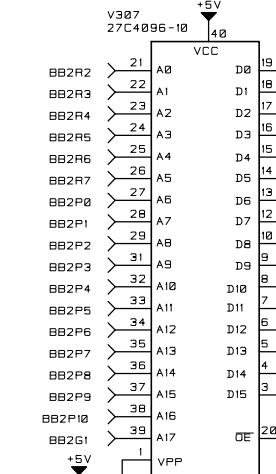
H COUNT



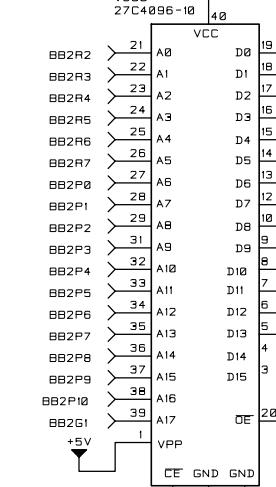
OUTPUT AMPLIFIER



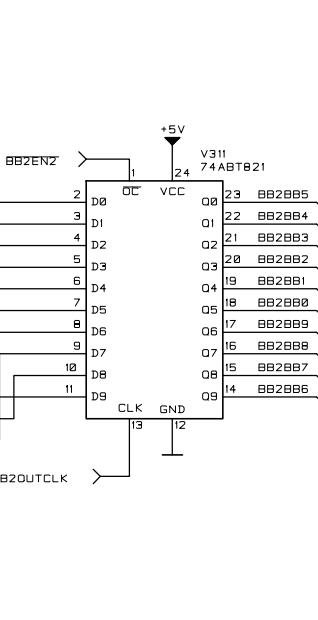
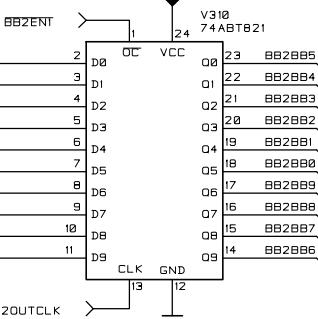
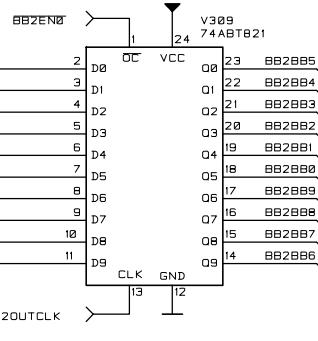
SINAL PROM 1

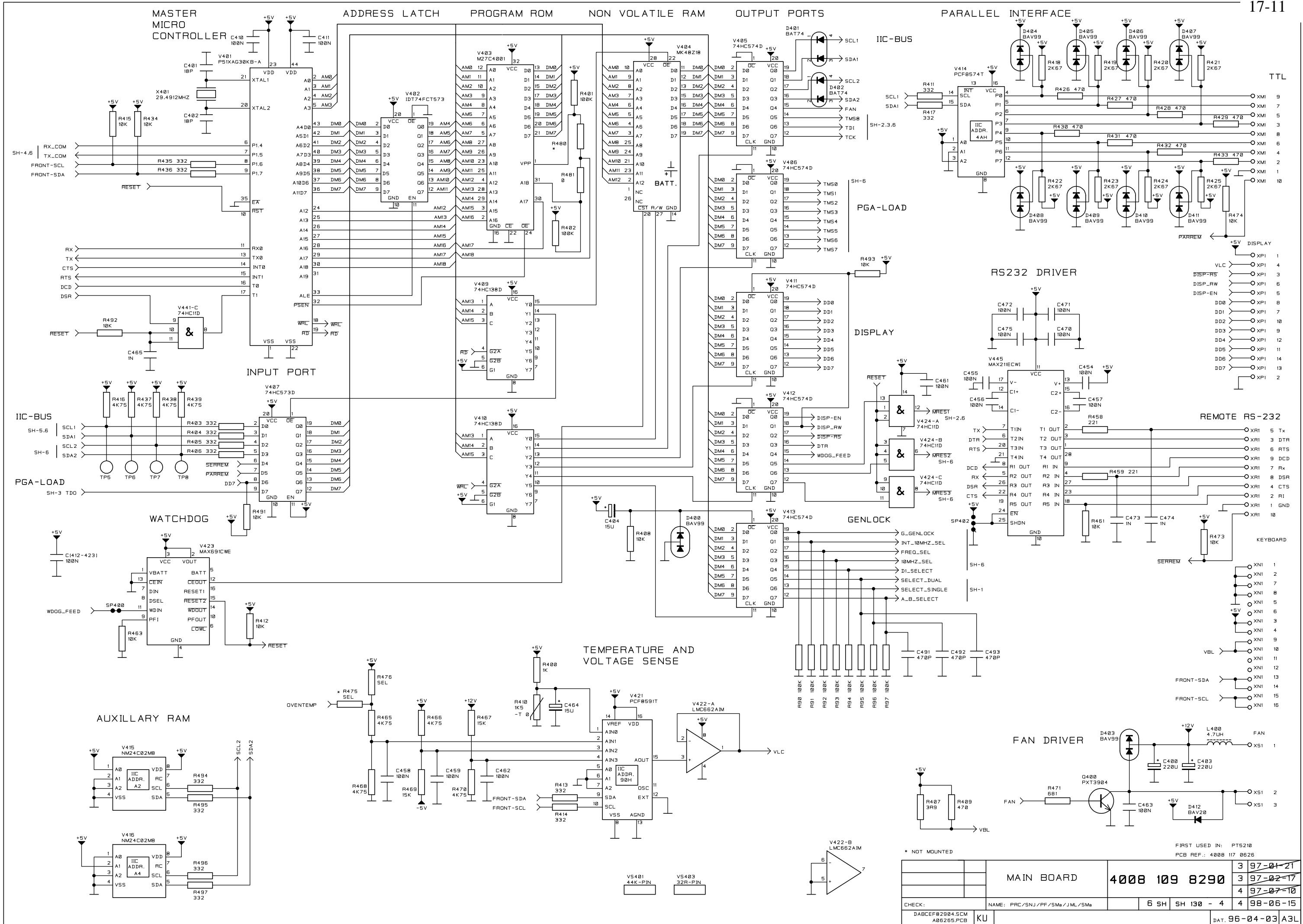


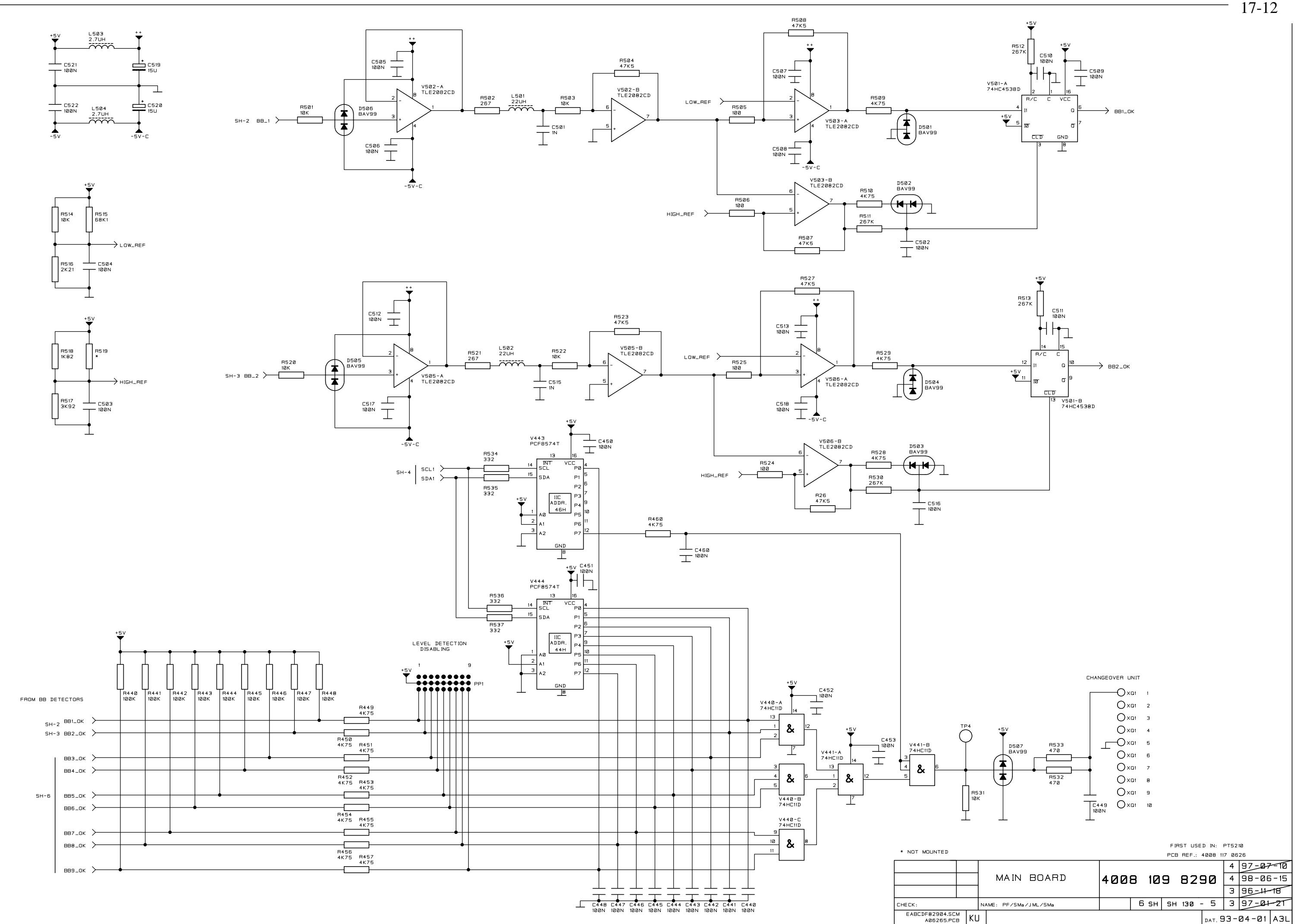
SINAL PROM 2



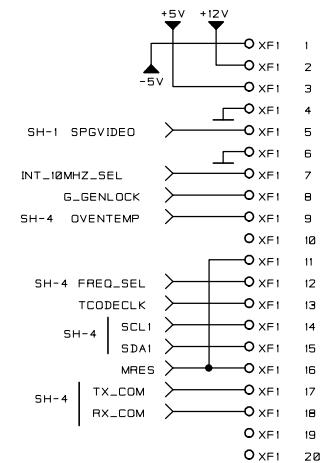
10 BIT MUX LATCH



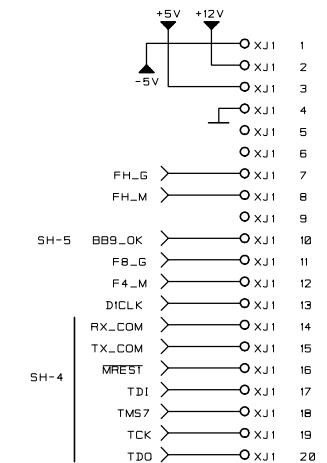




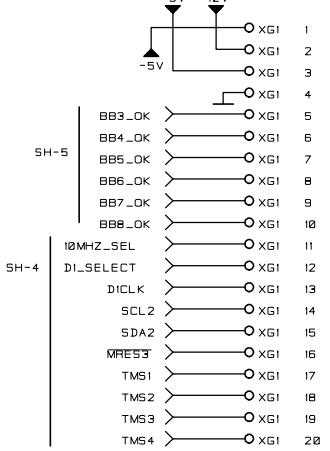
## TO SYNC PULSE GENERATOR



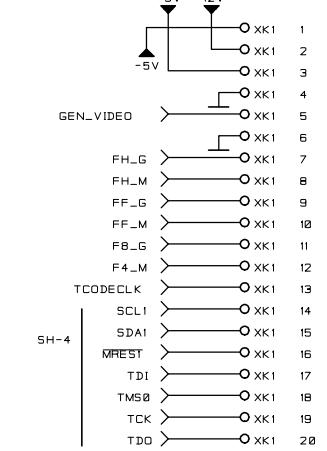
## TO D1 GENERATOR



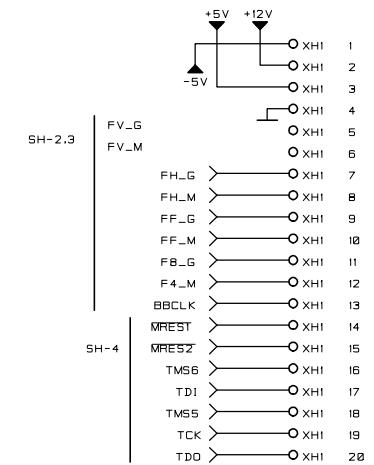
## TO SYNC PULSE GENERATOR



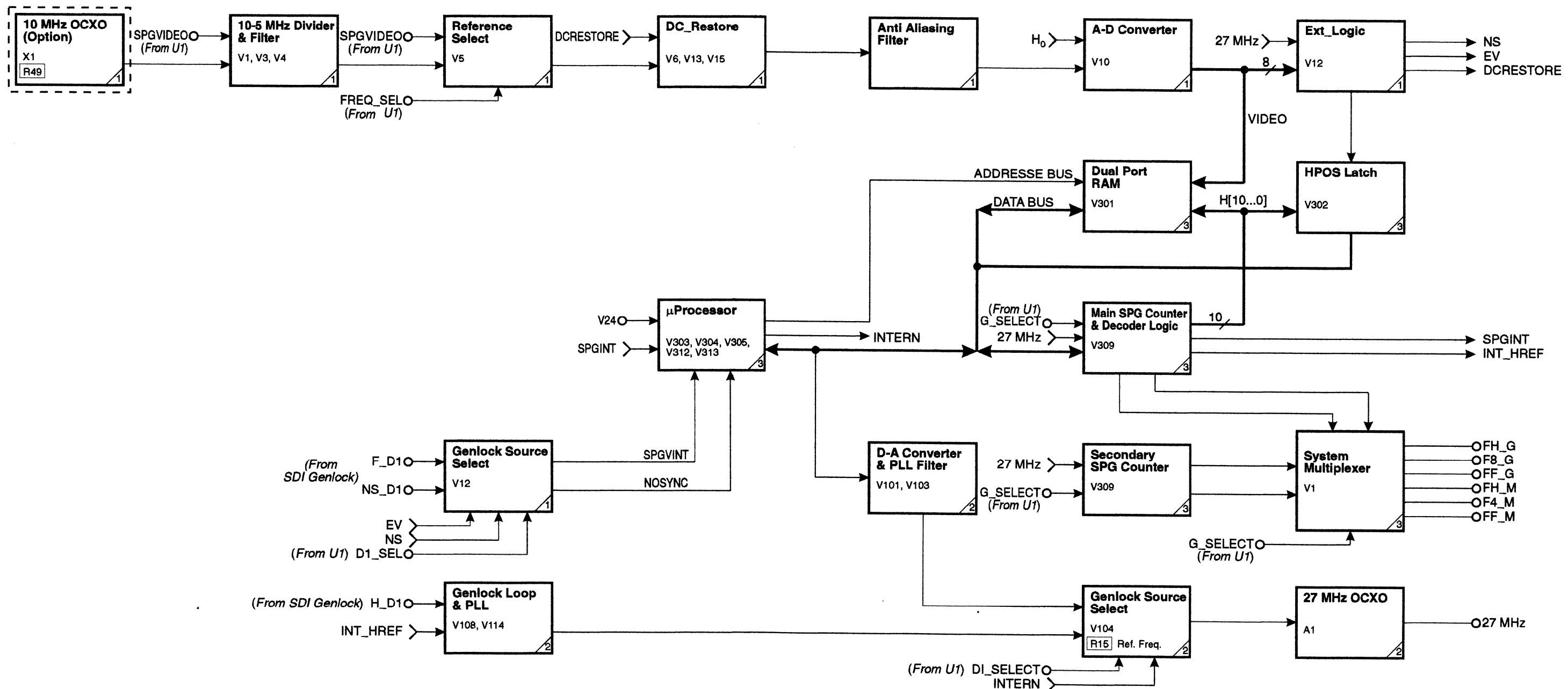
## TO TIMECODE



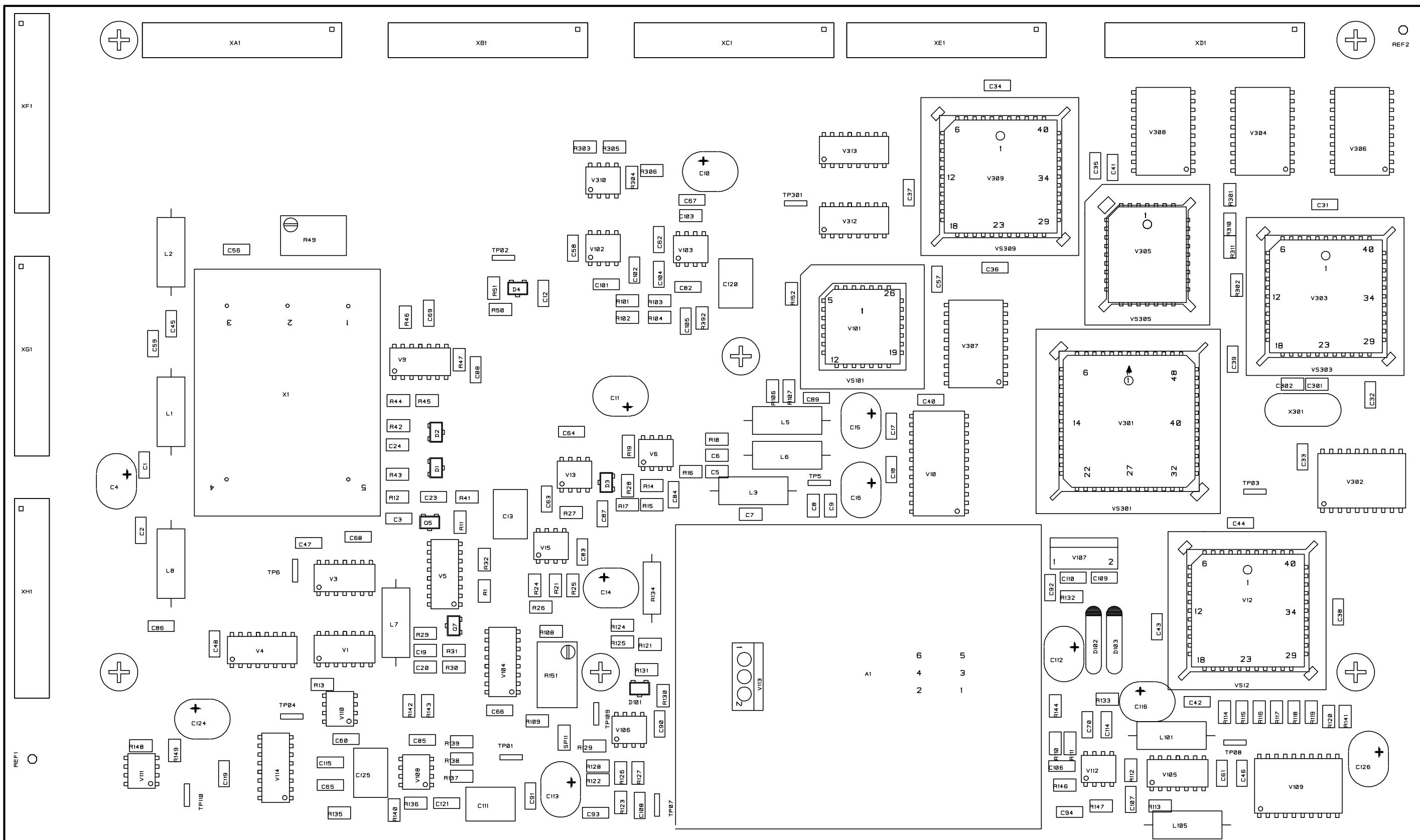
## TO SYNC PULSE GENERATOR



		MAIN BOARD		4008 109 8290			
CHECK:		NAME:	SNJ/SMa/JML/SMa	6 SH	SH 130 - 6	3	97-01-21
FABCDE82984.SCM	A80265.PCB	KU					DAT. 96-03-28 A3L

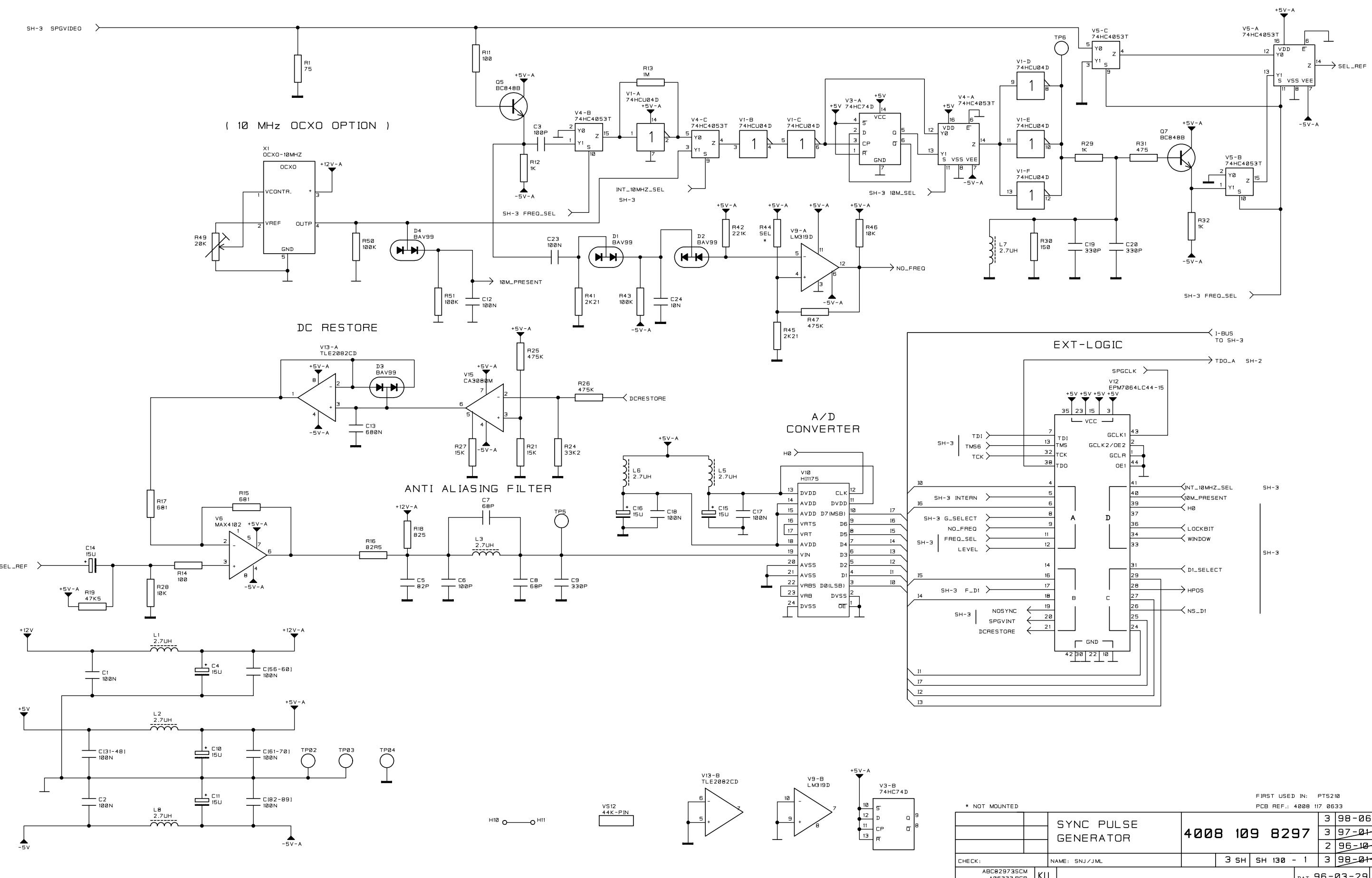


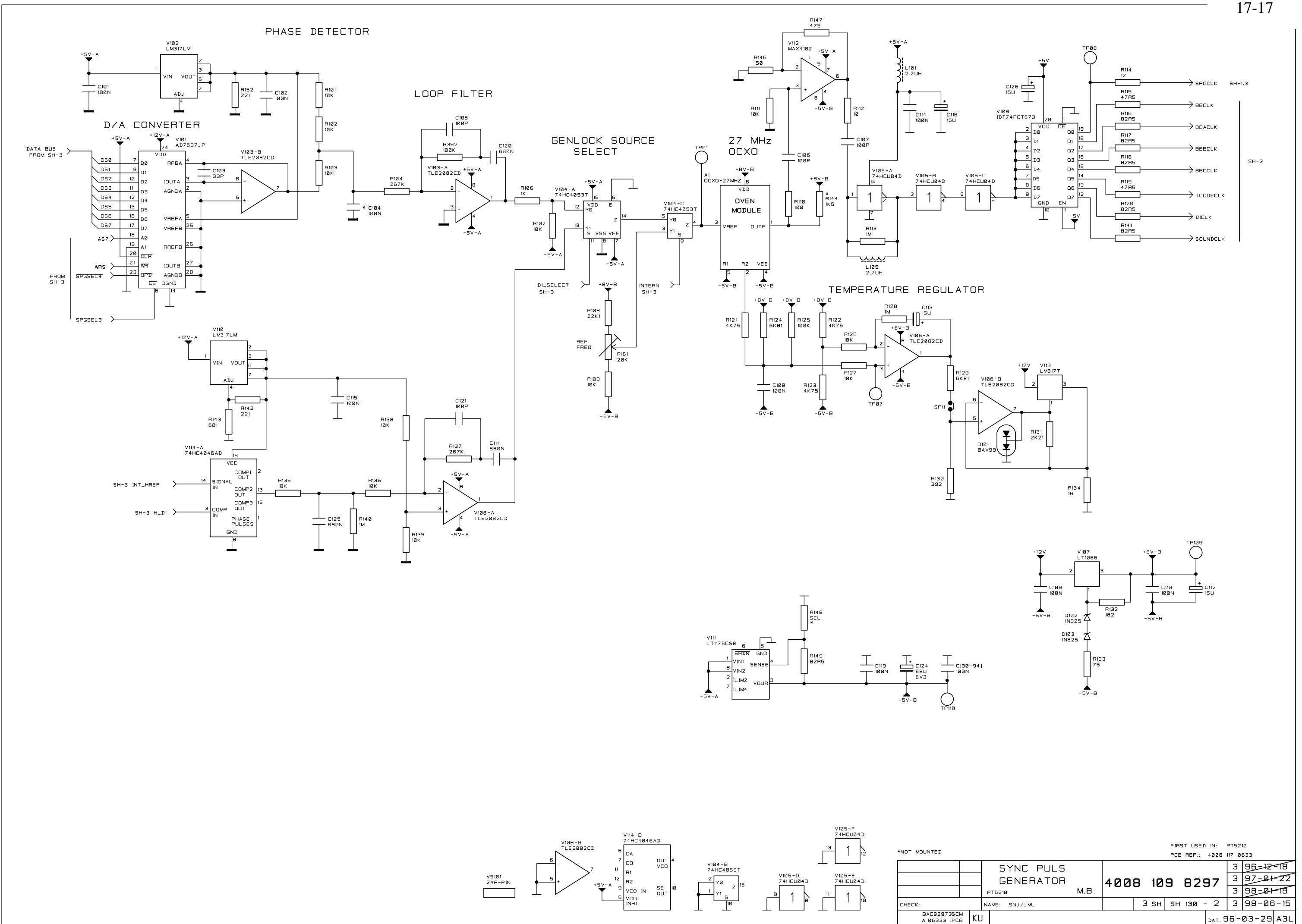
Blockdiagram - sync generator

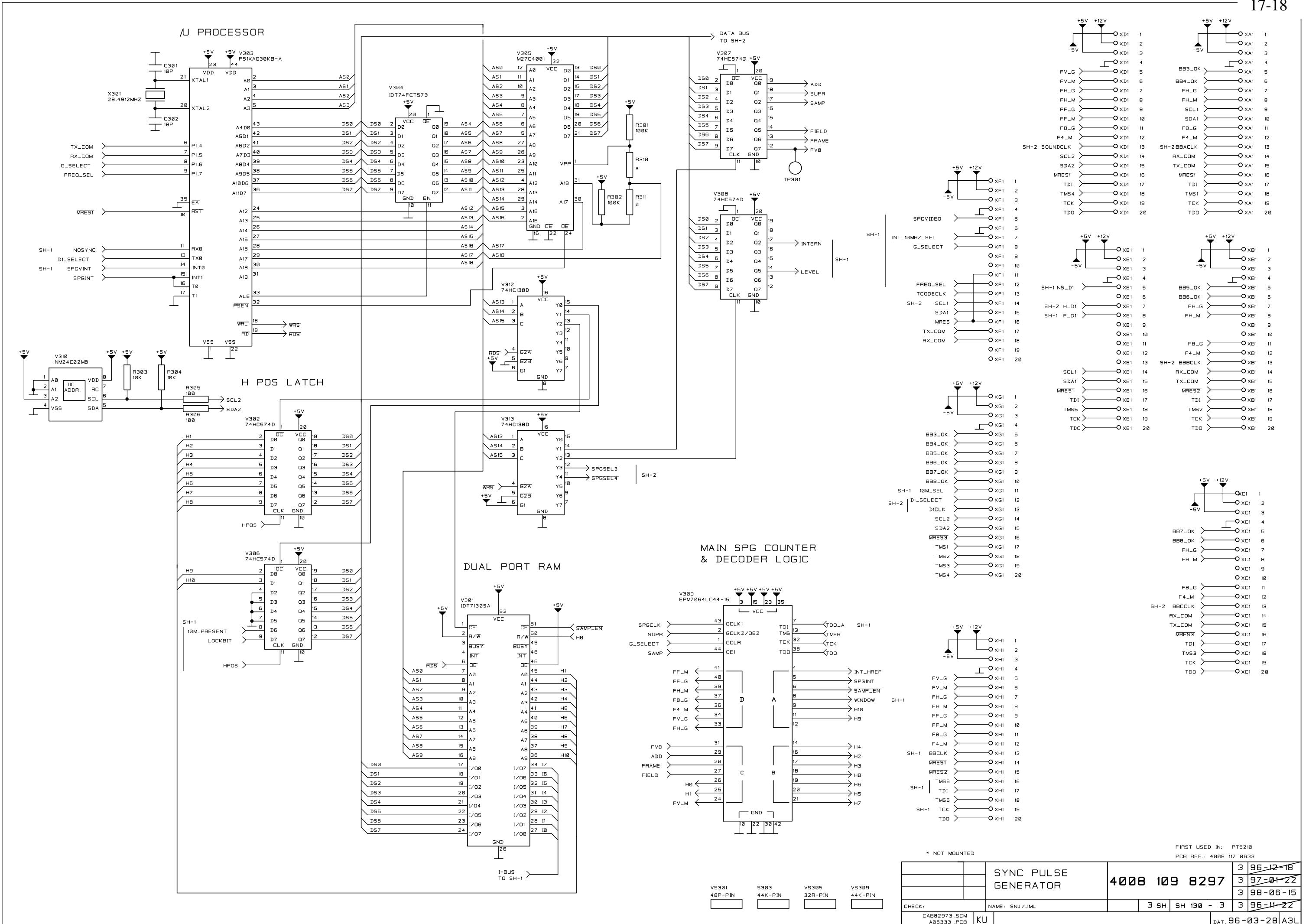


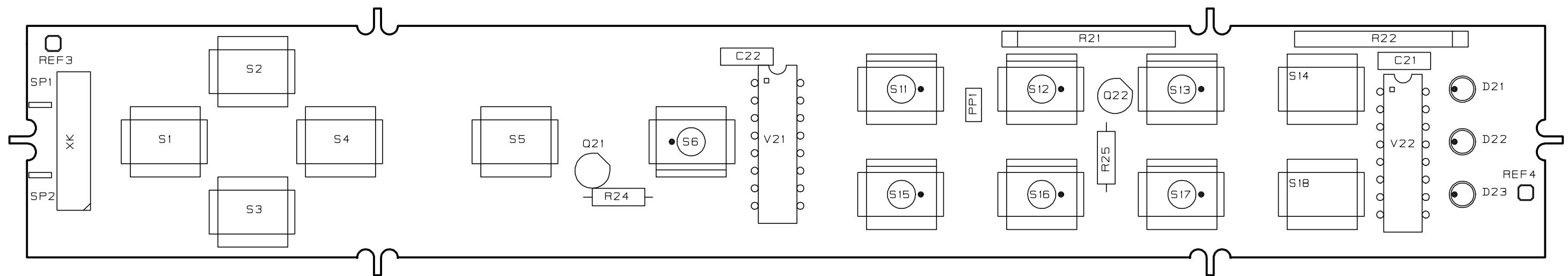
## 10/5 MHz DIVIDER &amp; FILTER

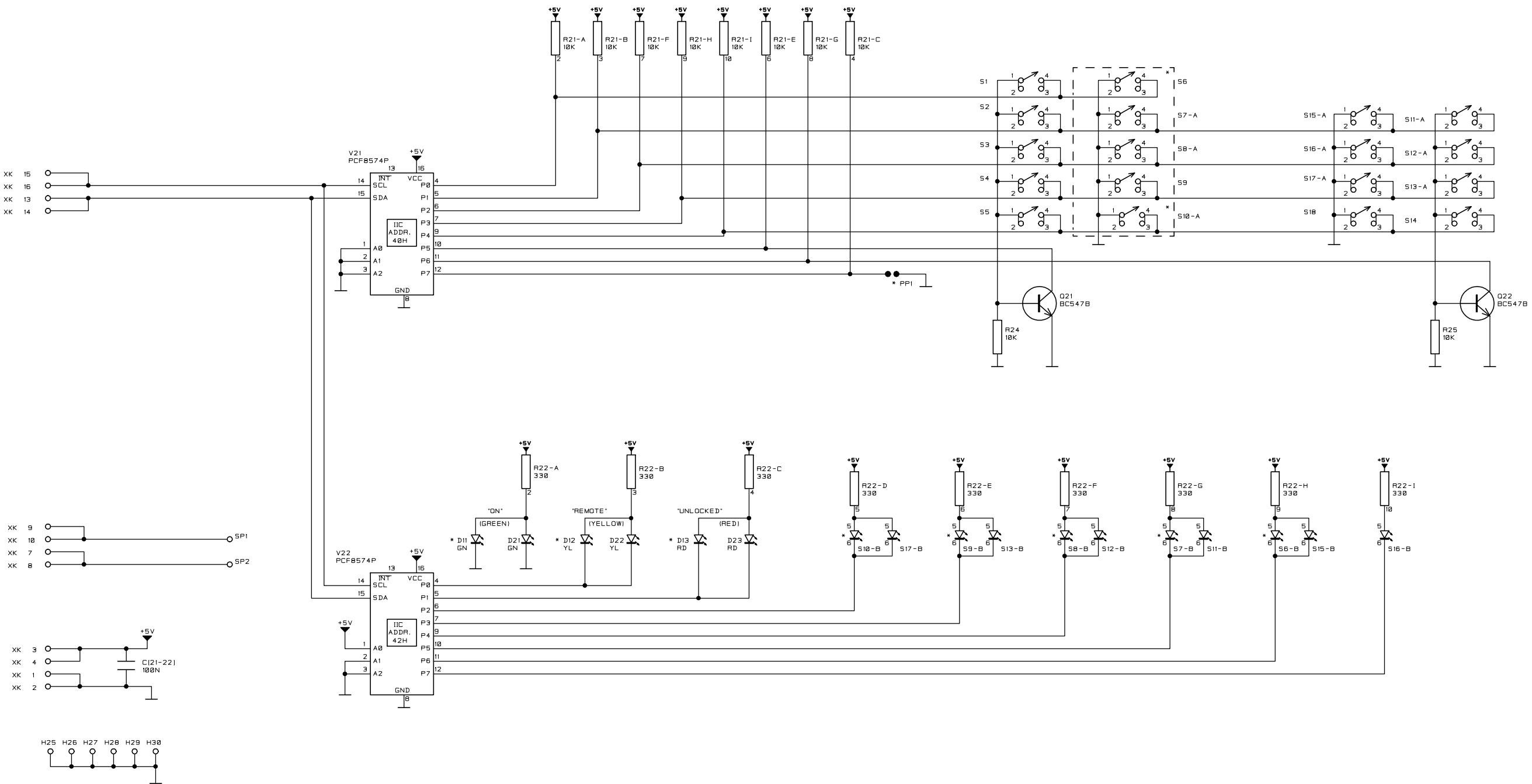
## REFERENCE SELECT



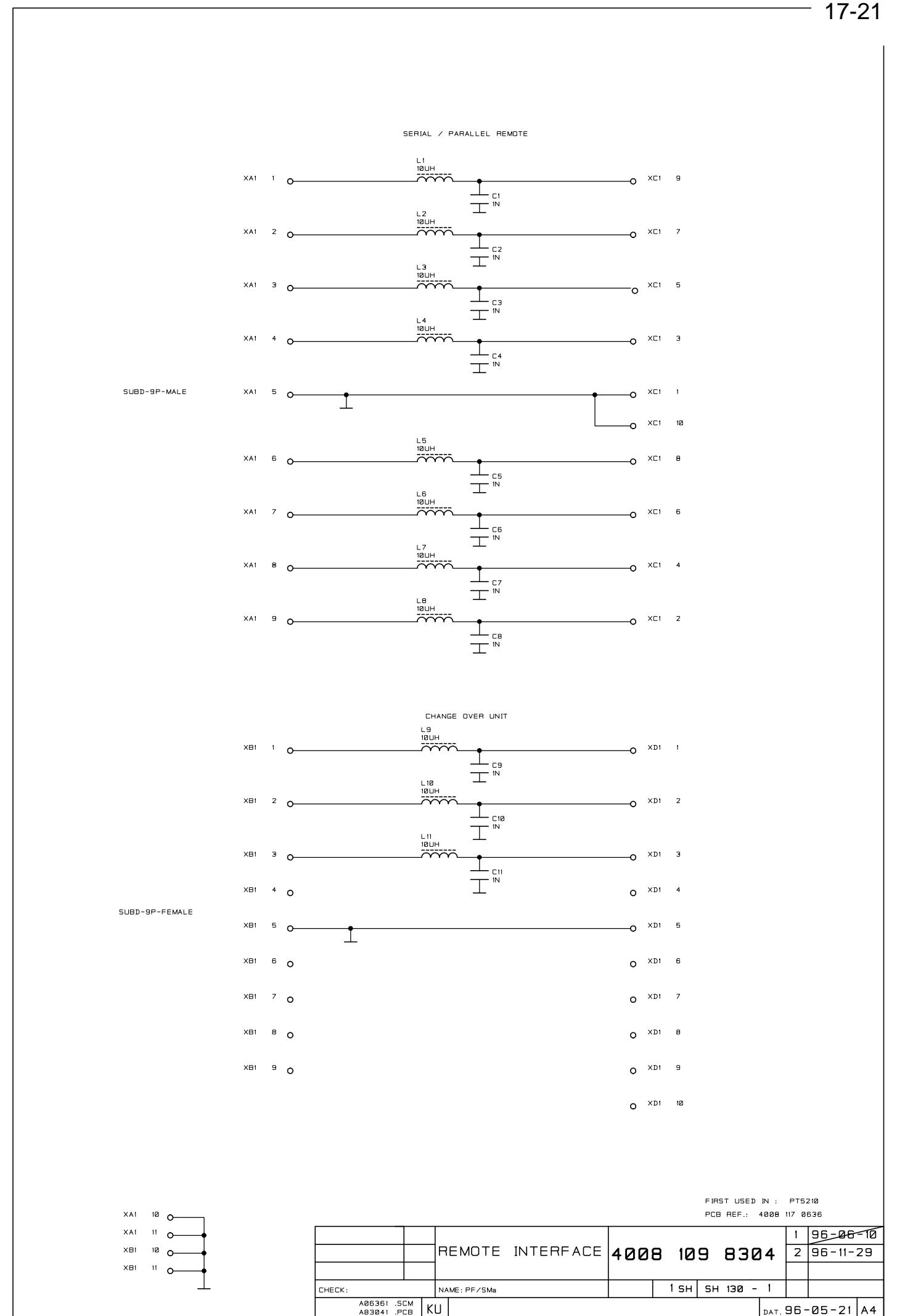
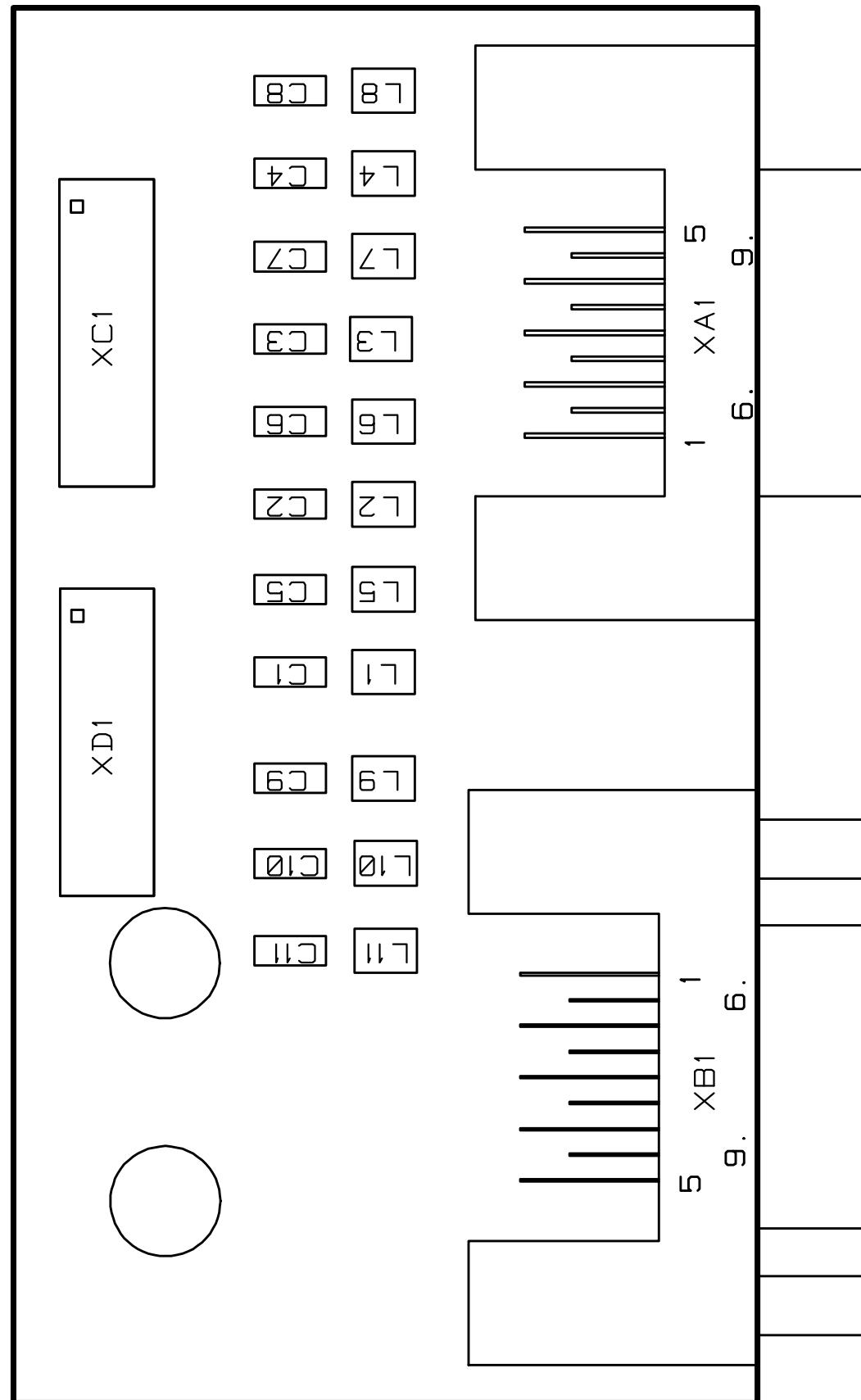


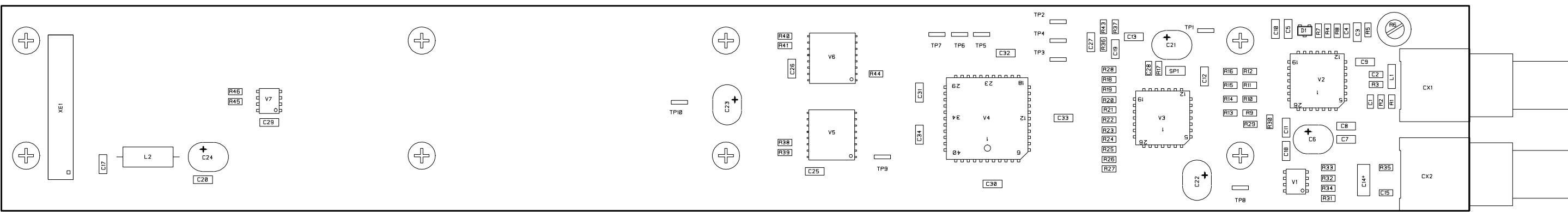


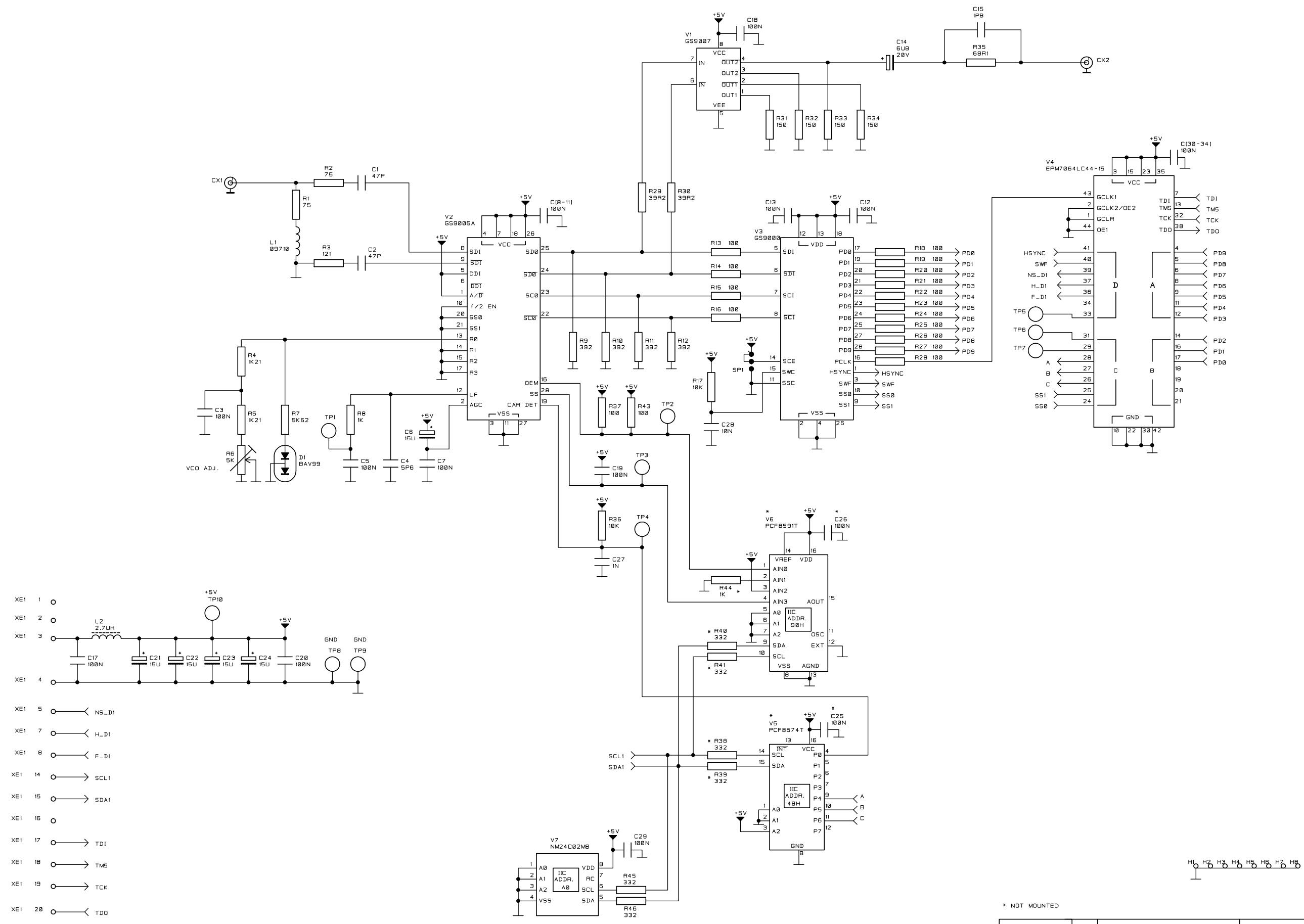




* NOT MOUNTED		1U FRONTPLATE KEYBOARD		4008 109 8470	
		Pt5230 M.B.		M.B.	
CHECK:		NAME: GBG /JPA /JML		1 SH	SH 130 - 1
A84701.SCM A85941.PCB	KU			DAT. 93-10-01	A3L

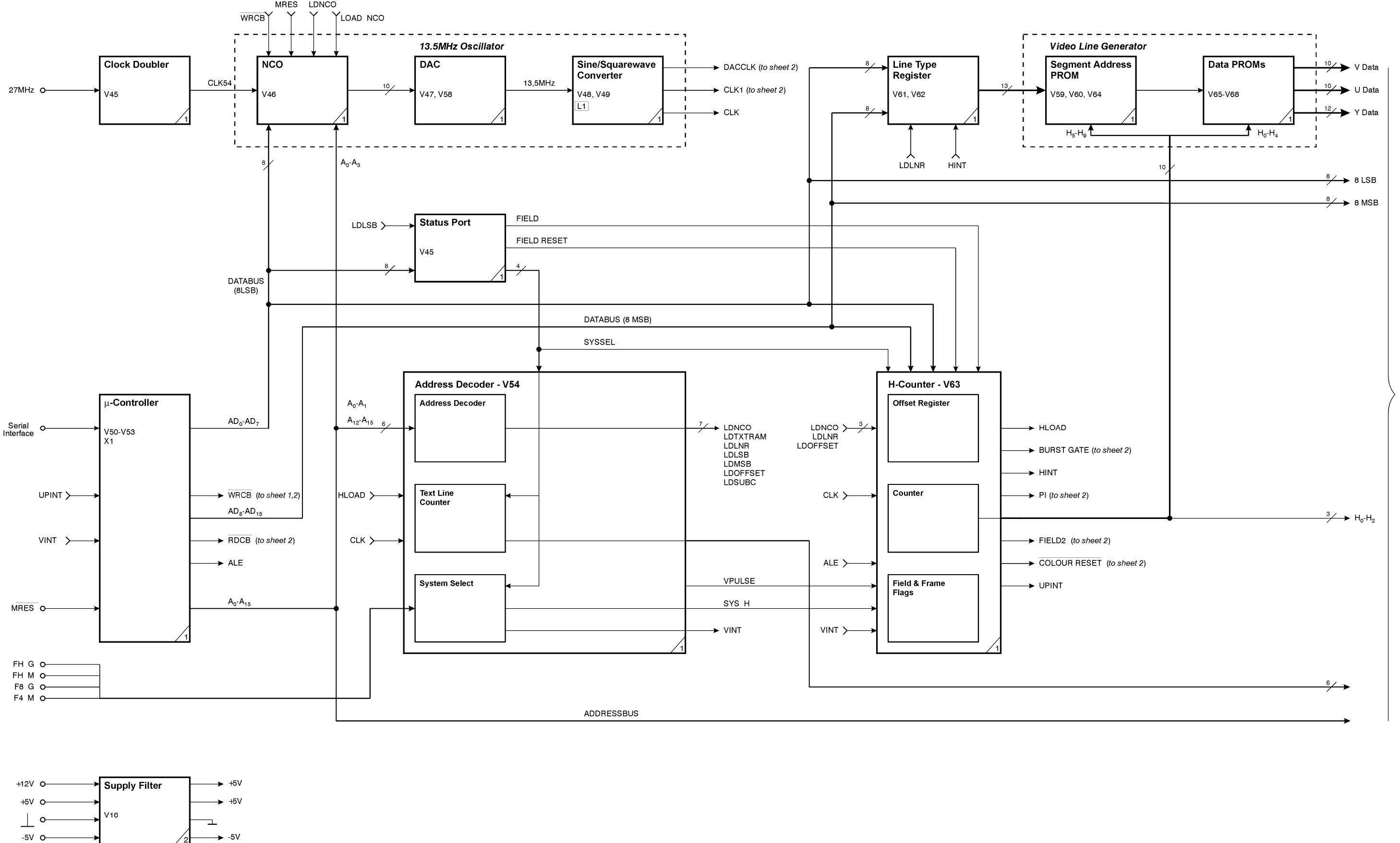


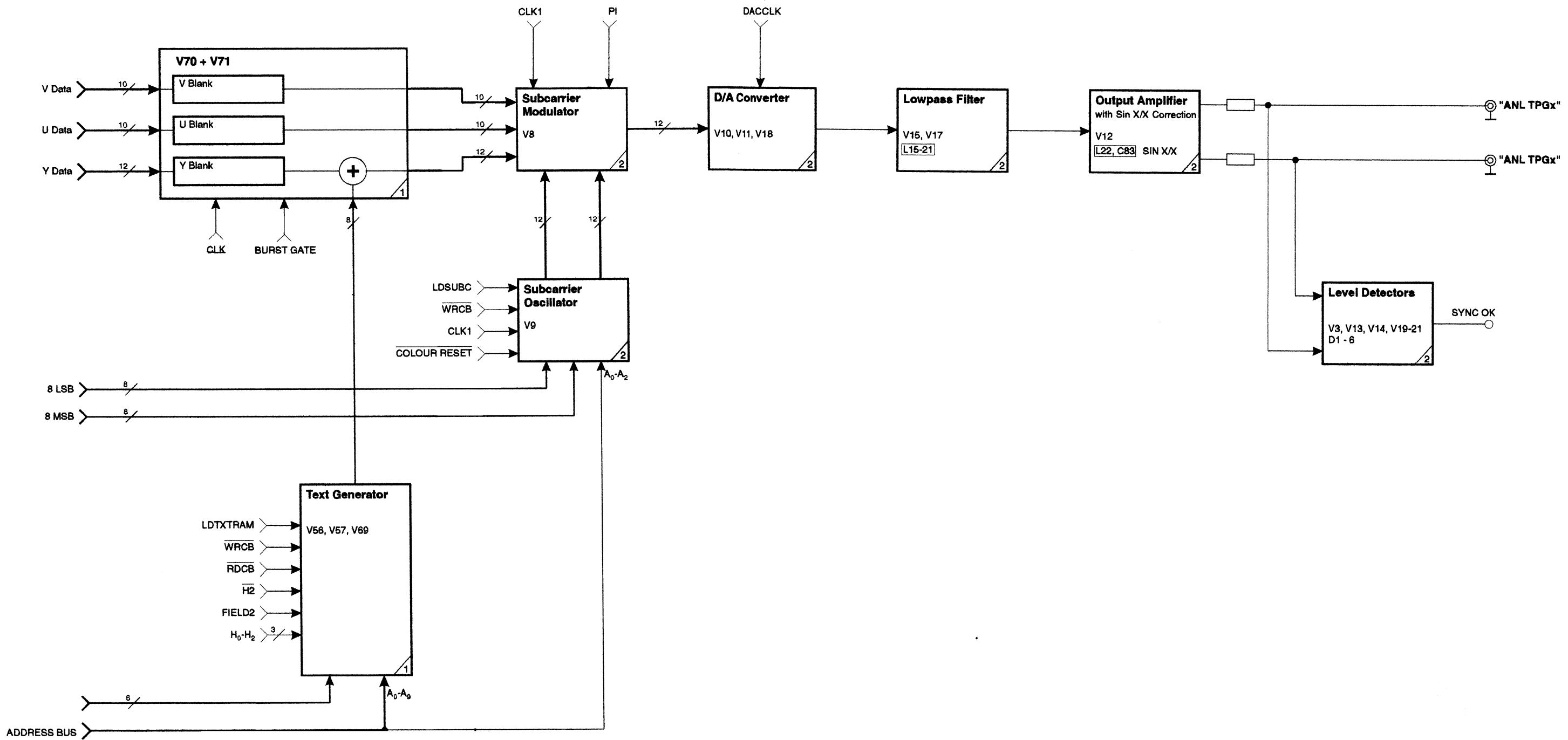


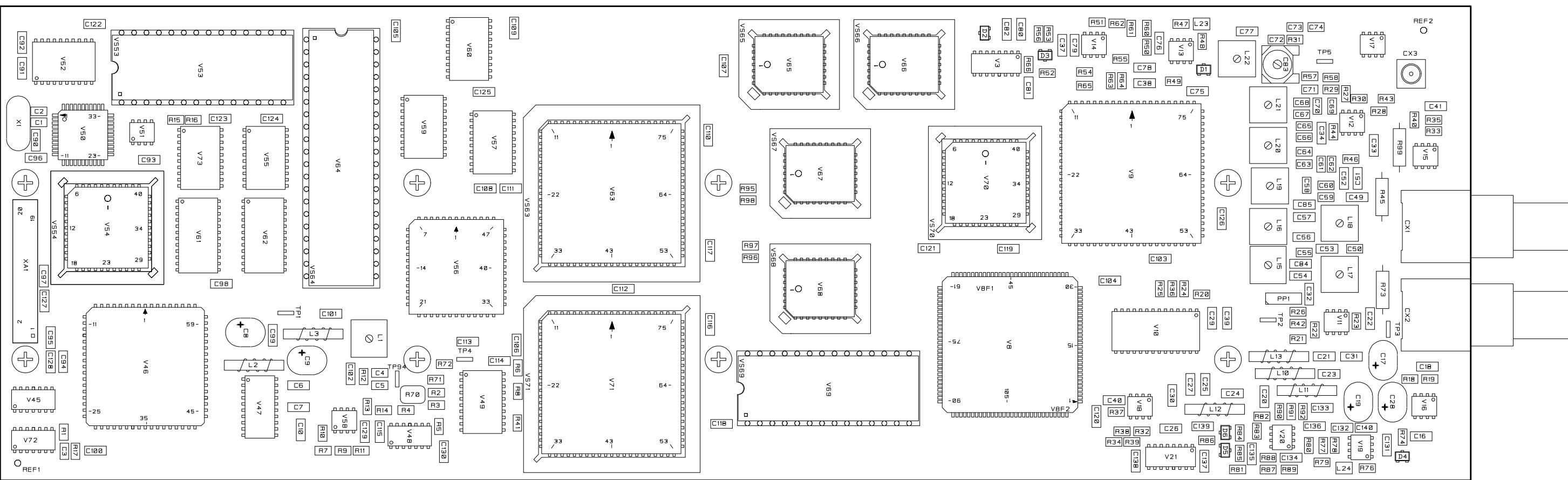


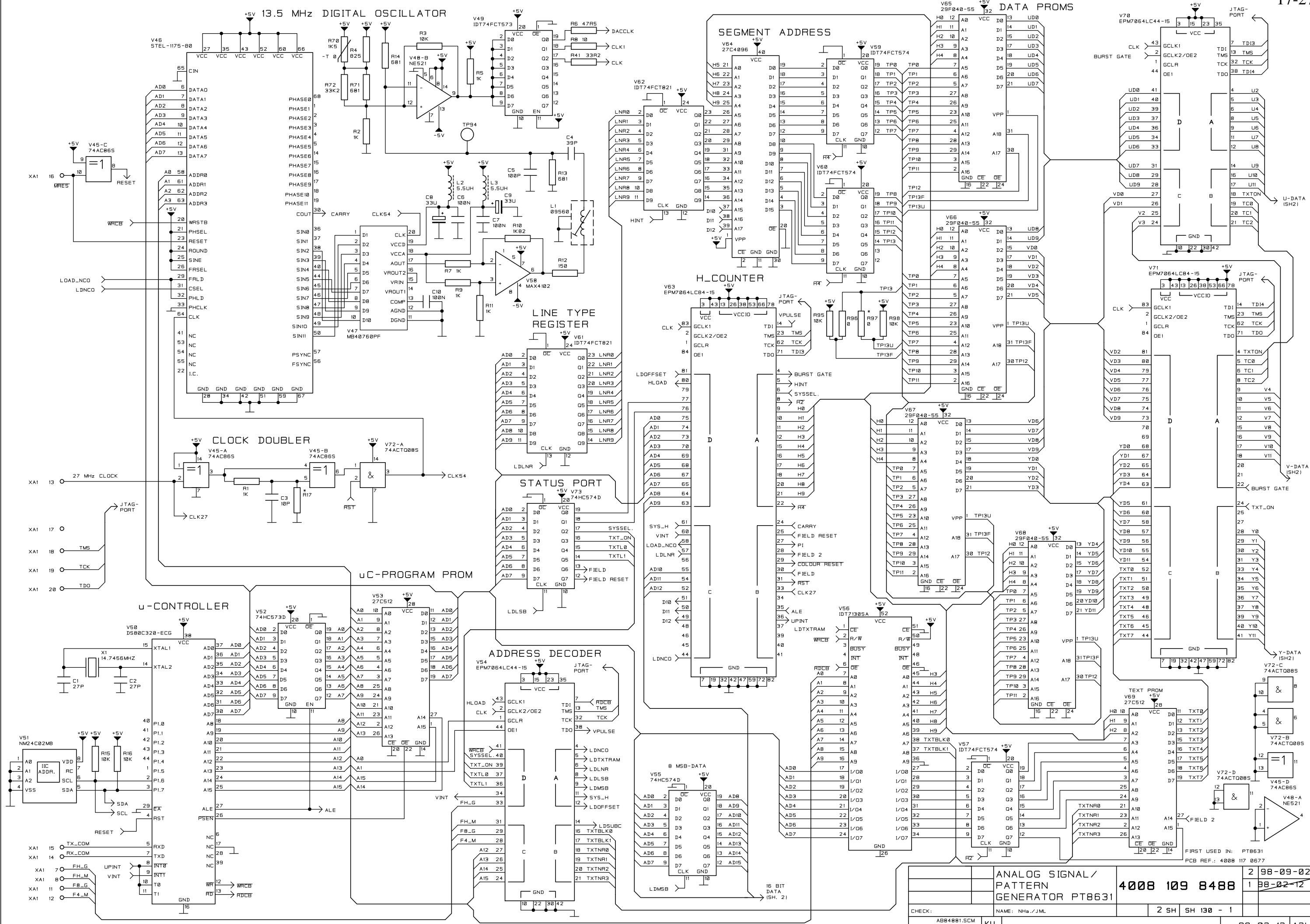
FIRST USED IN: PT5210  
PCB REF.: 4008 117 0628

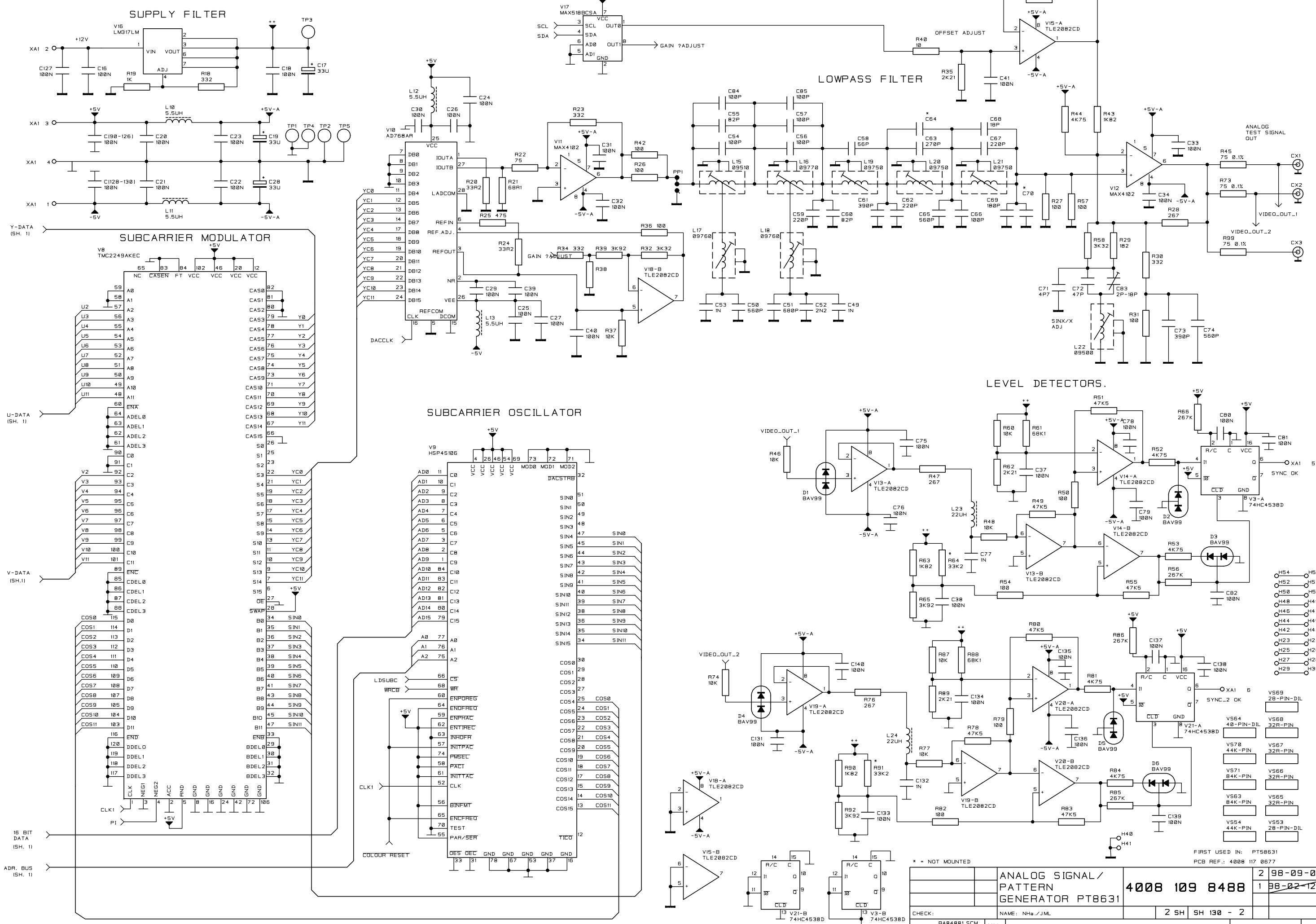
1 96-06-25  
2 97-01-23

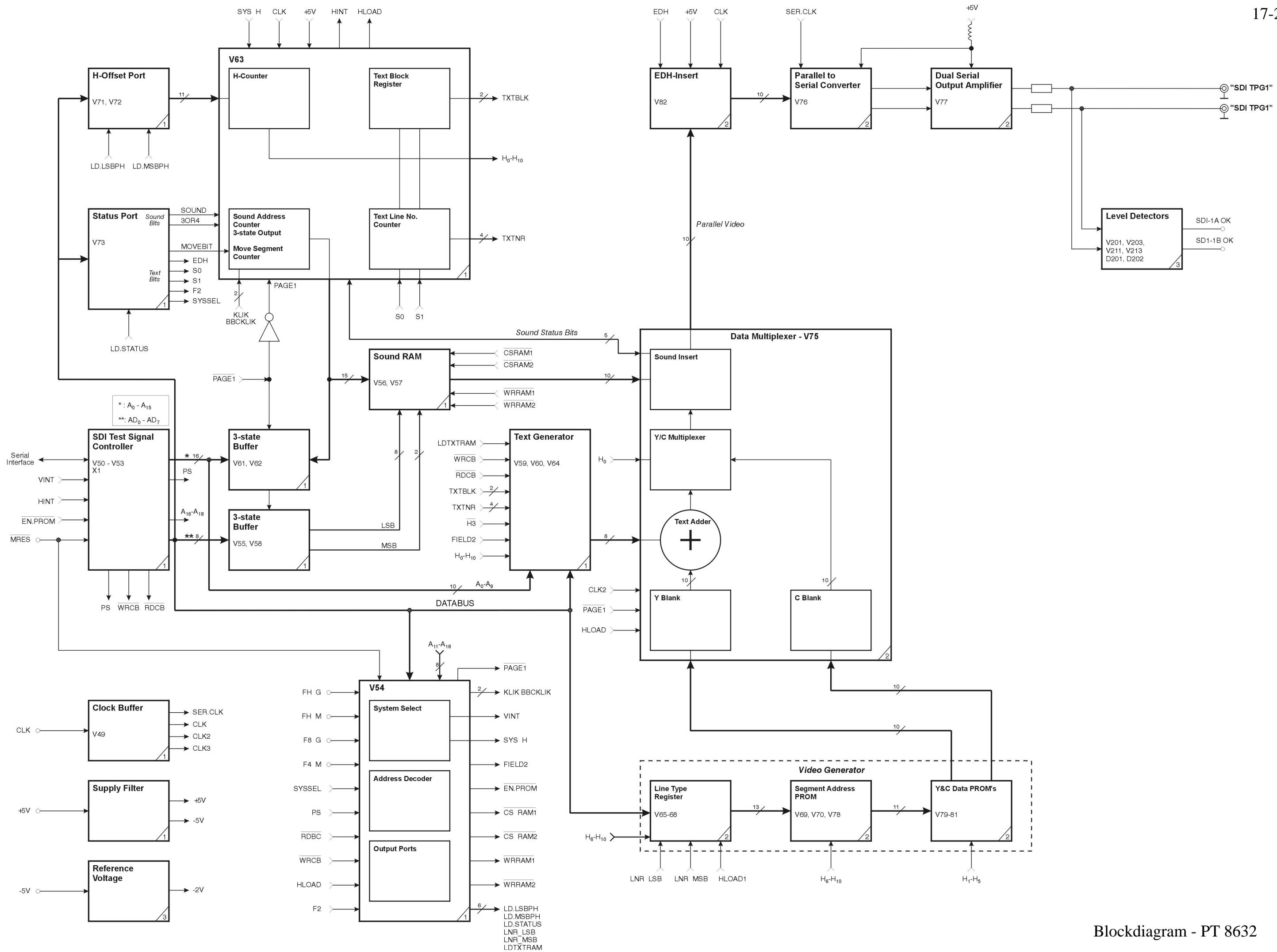




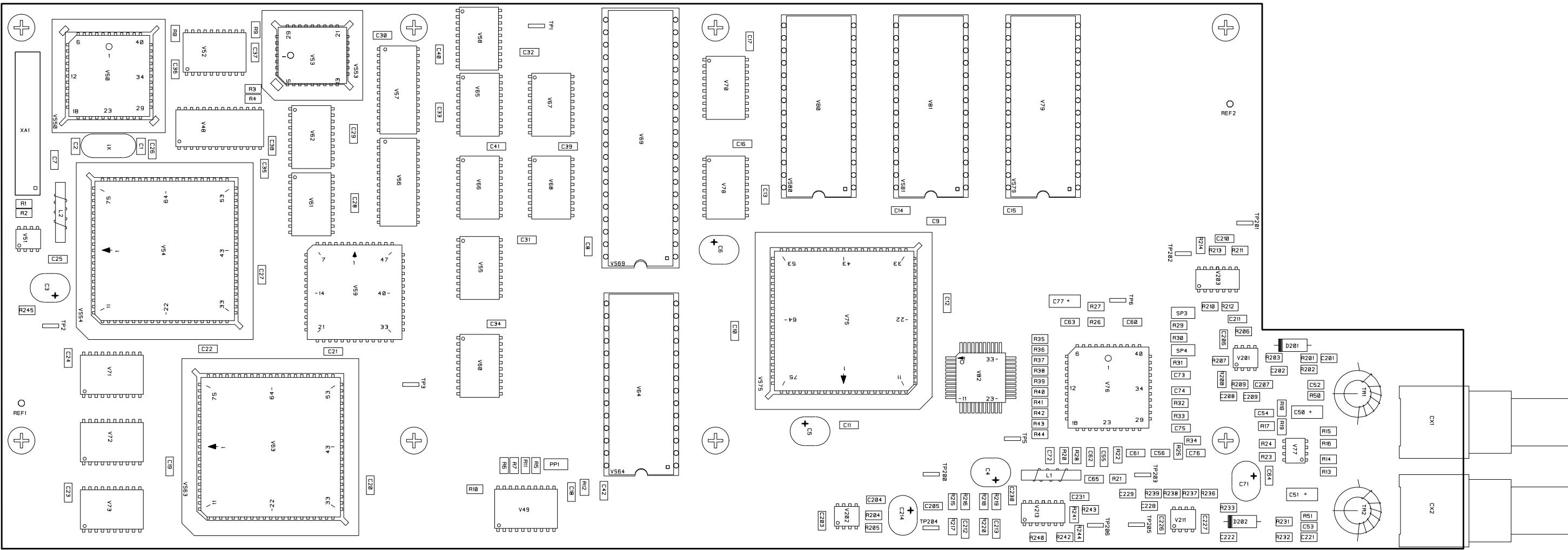


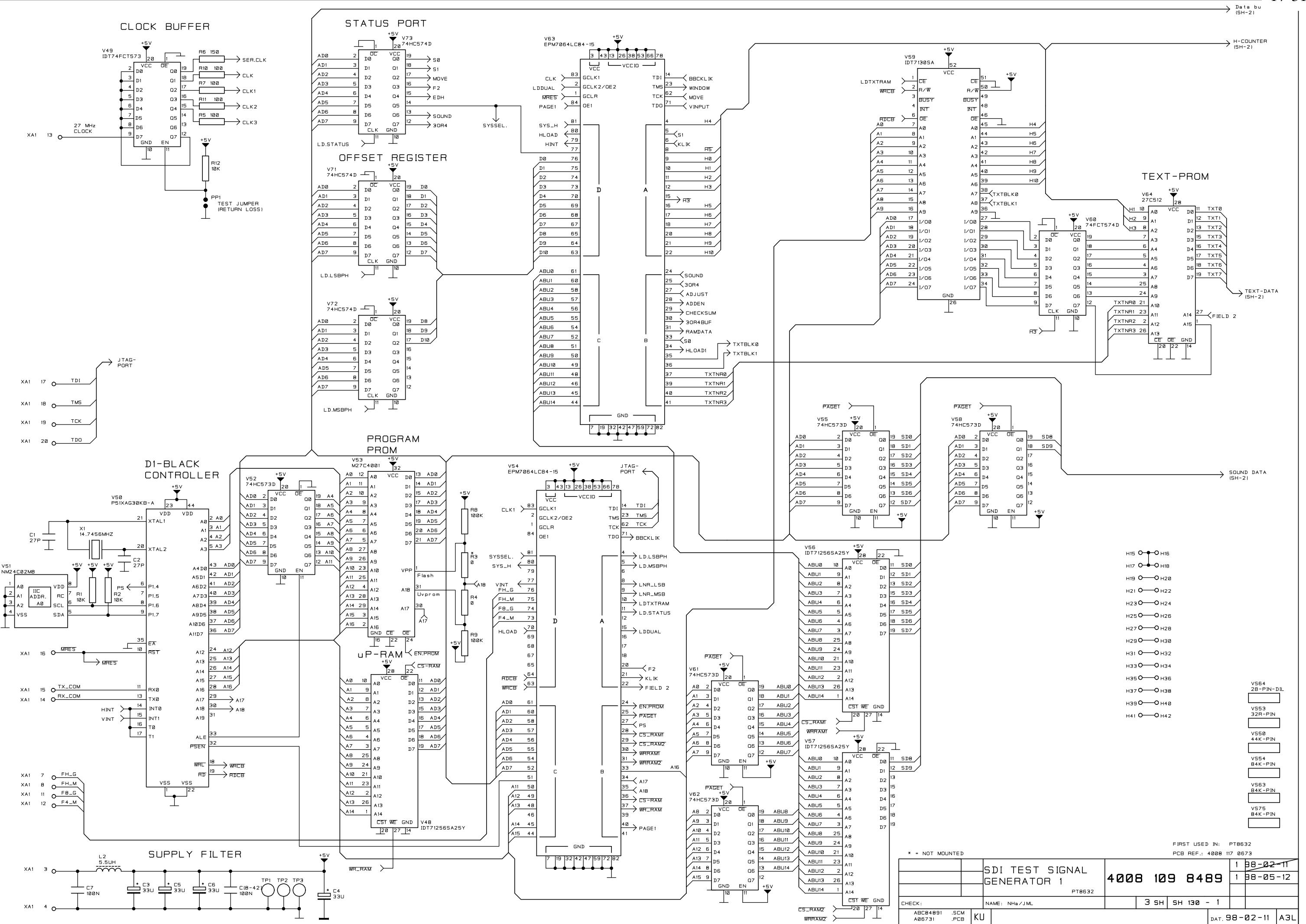


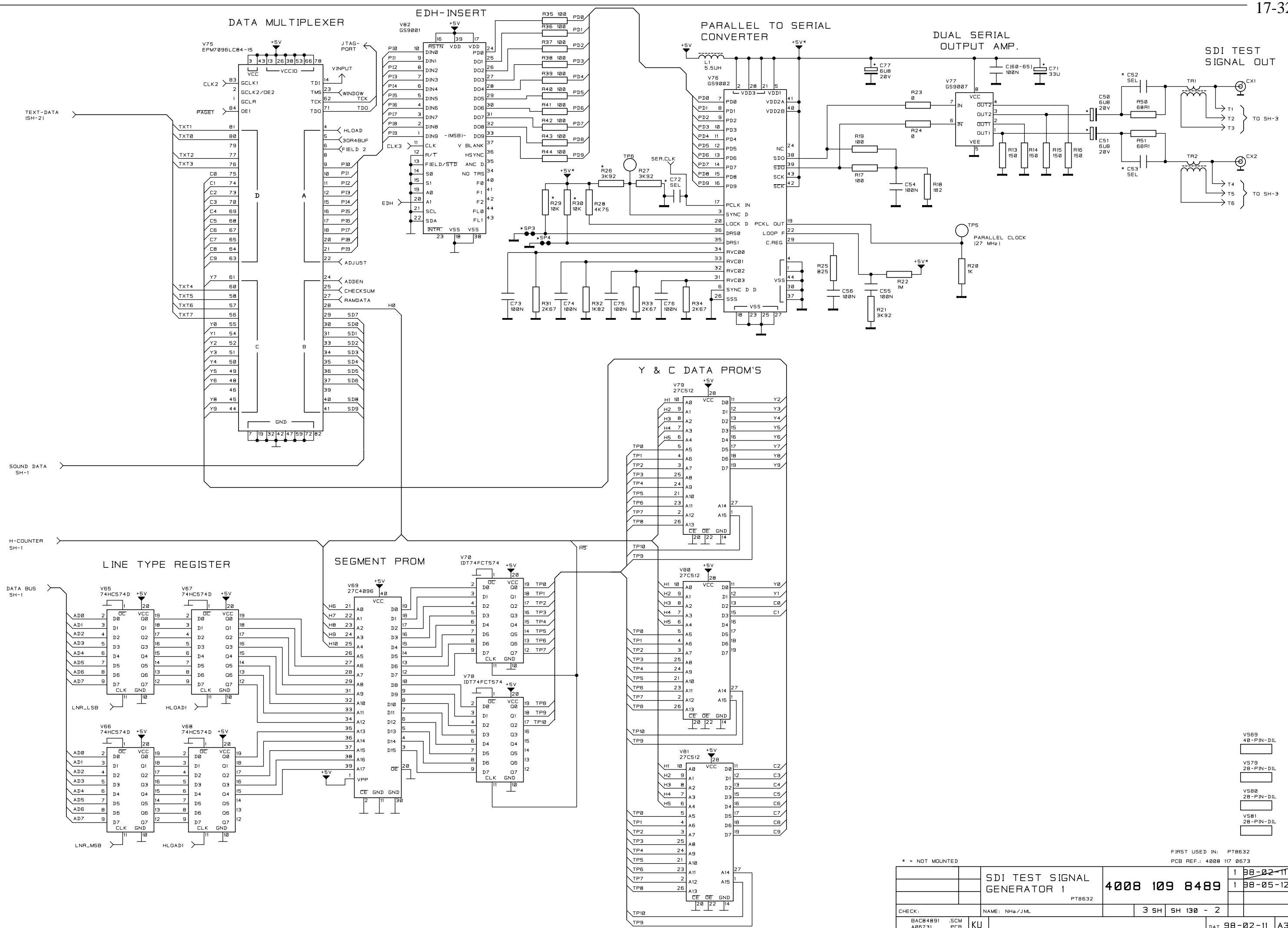


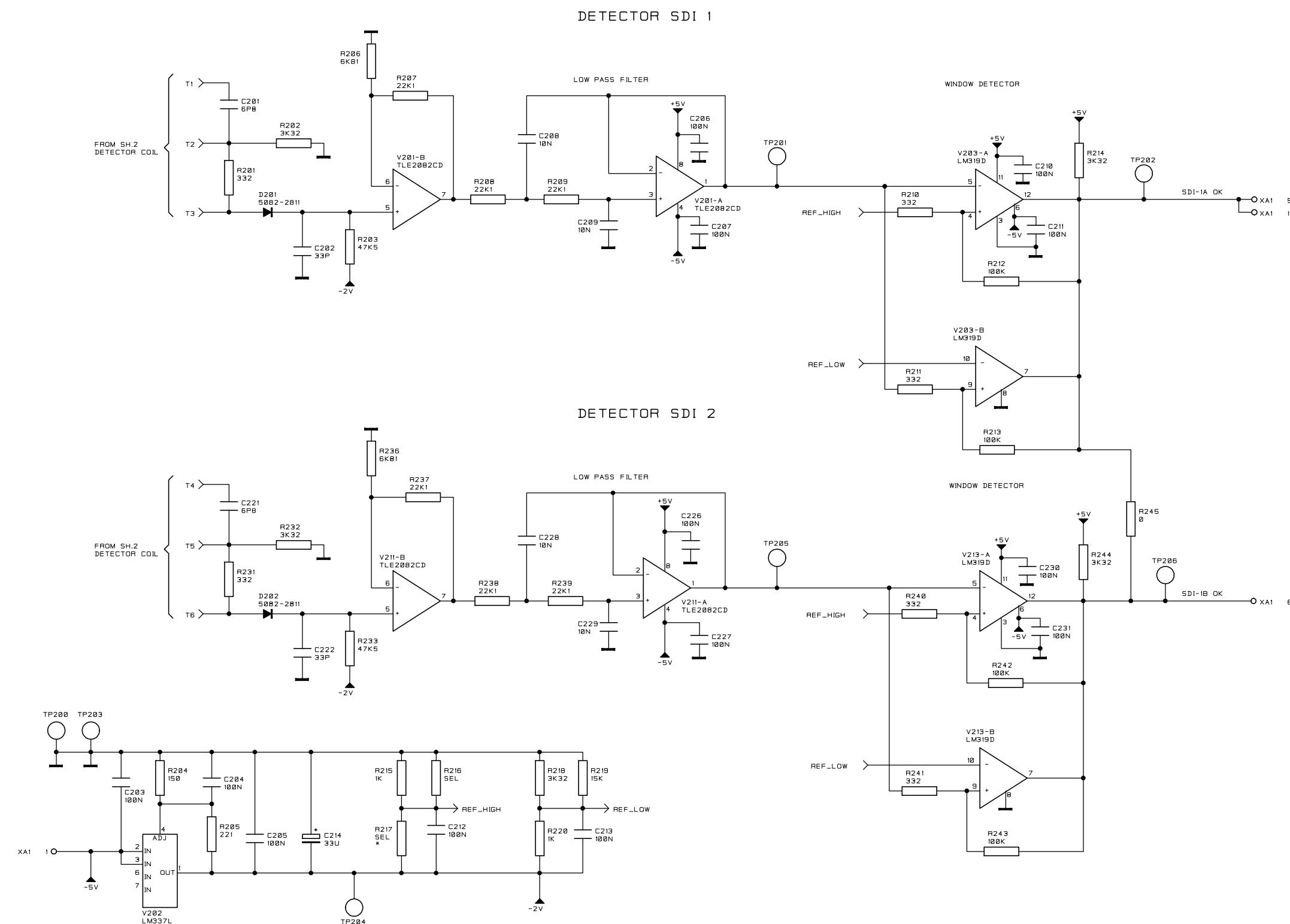


Blockdiagram - PT 8632





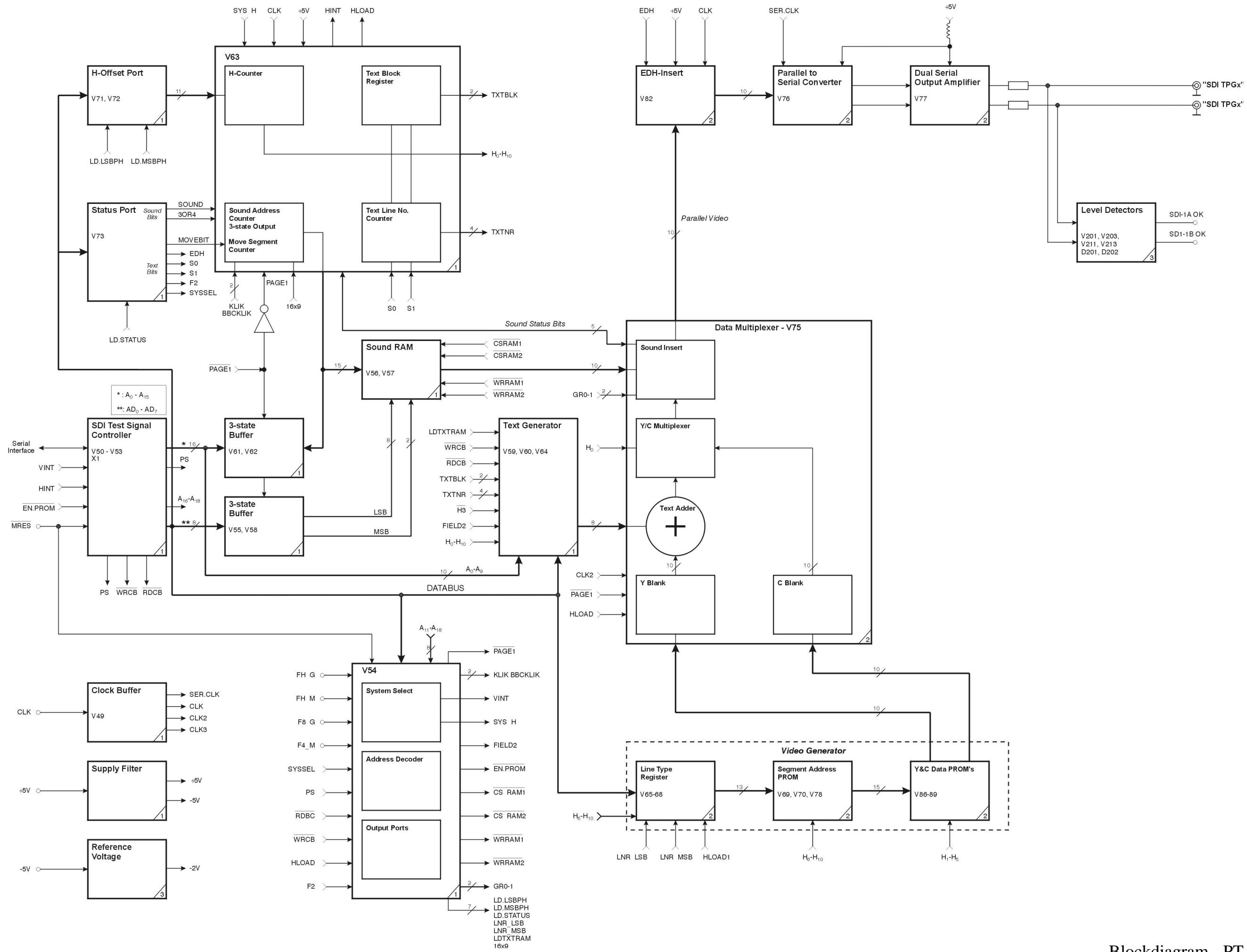




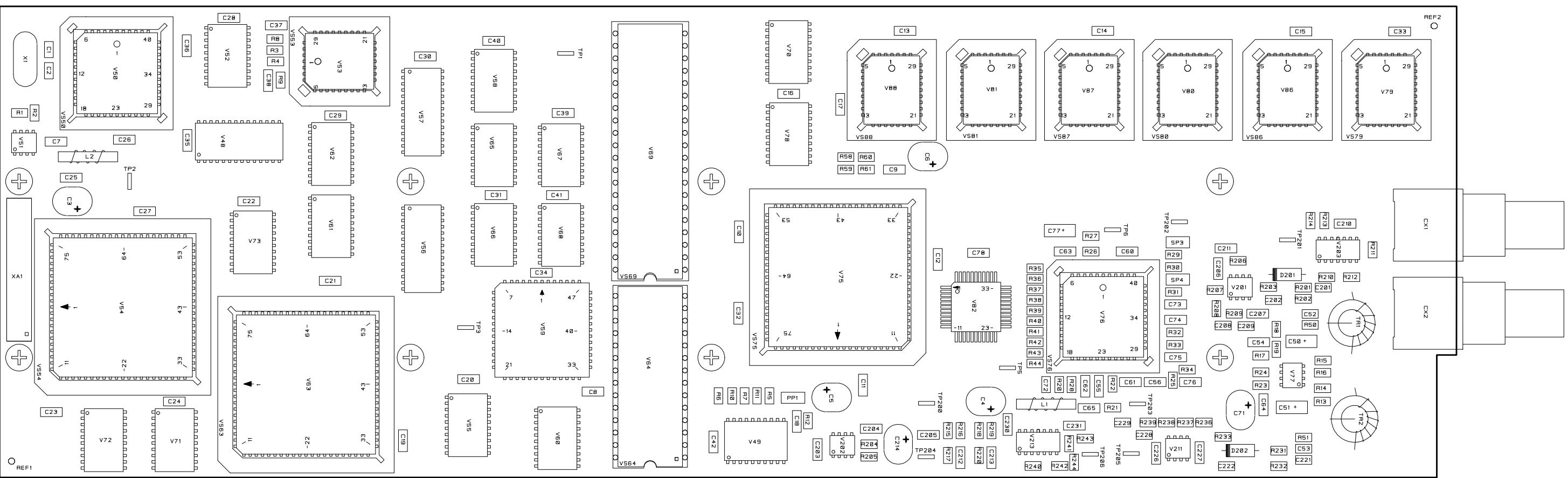
FIRST USED IN: PT8632  
PCB REF.: 4008 117 0673

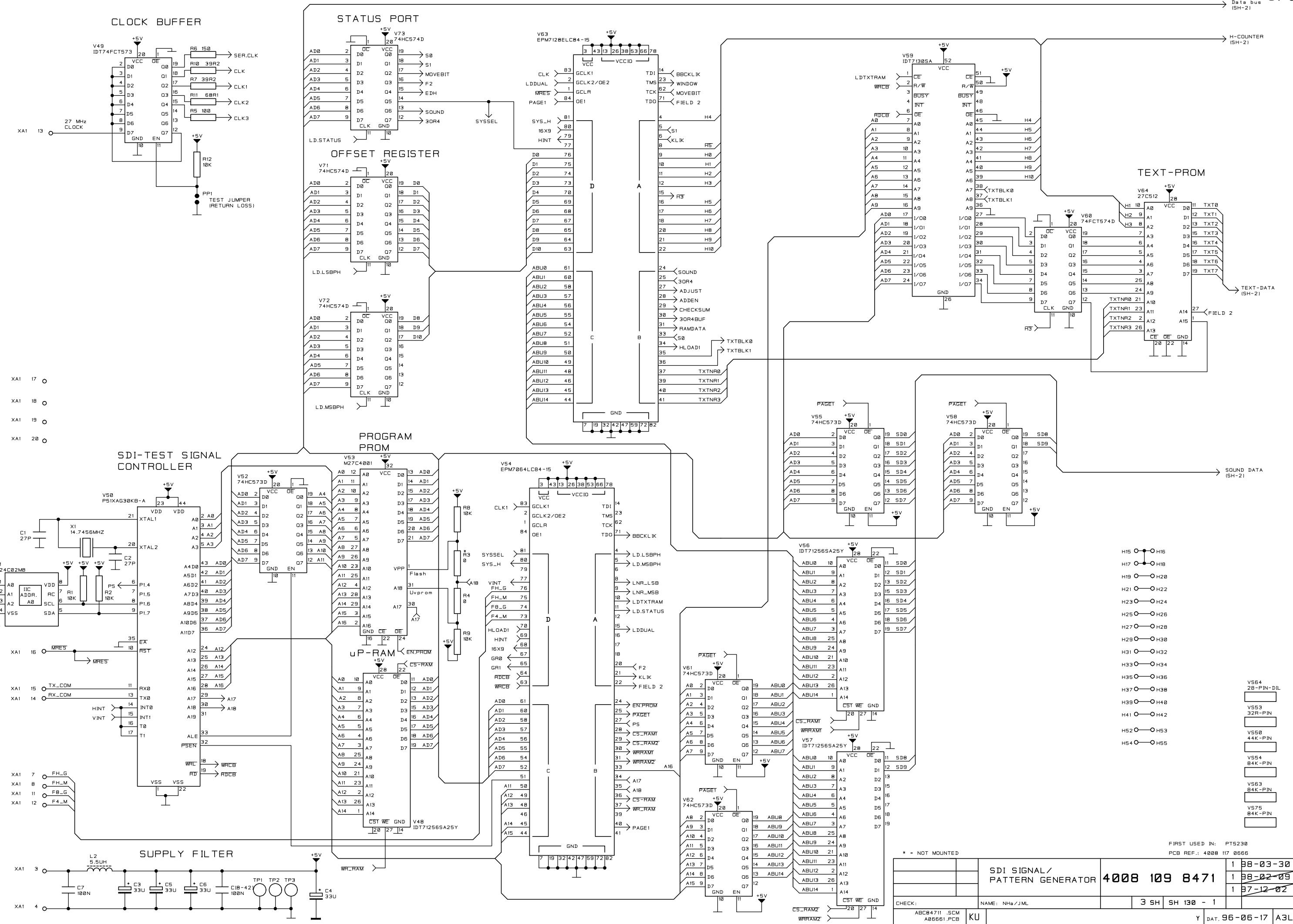
\* NOT MOUNTED

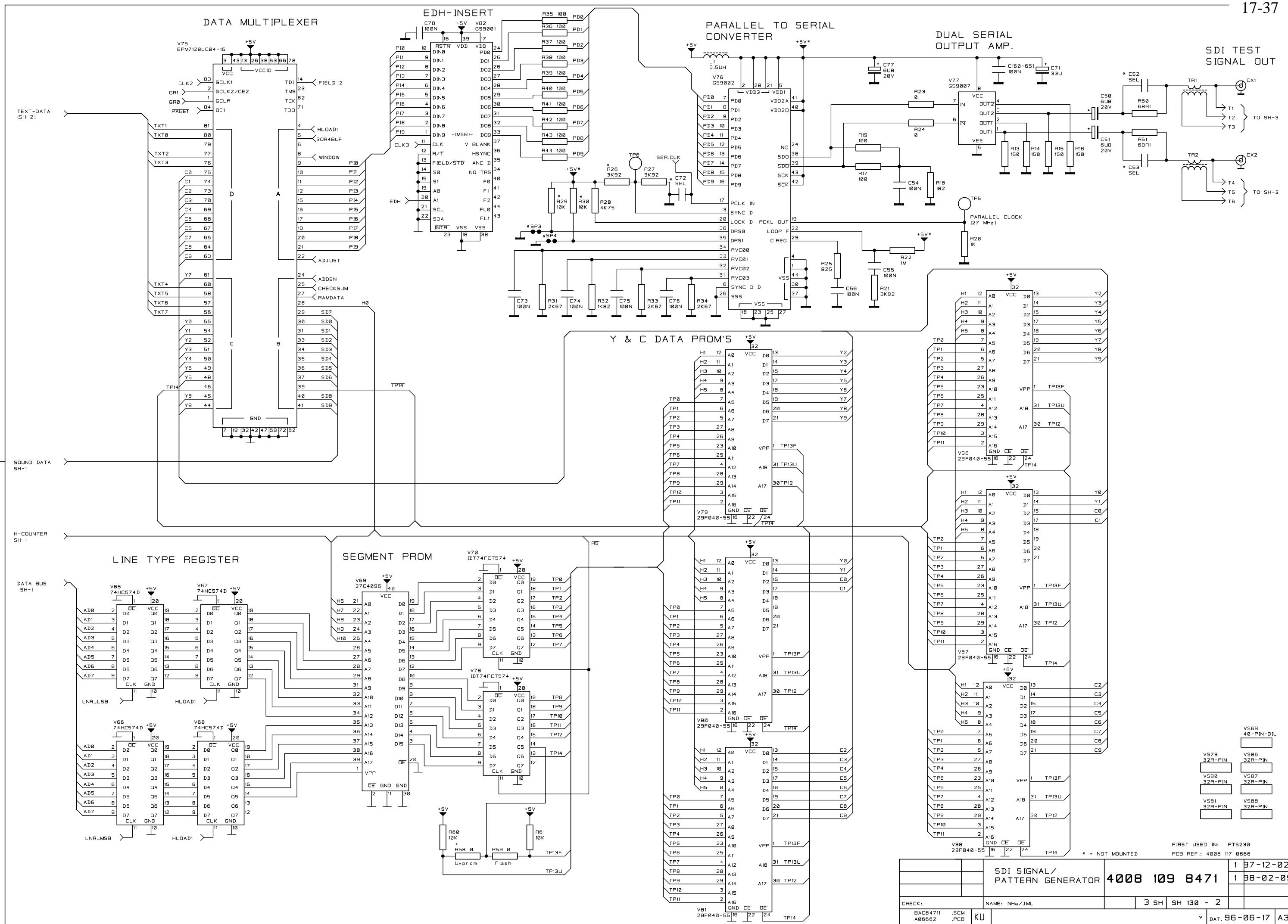
	SDI TEST SIGNAL GENERATOR 1	4008 109 8489	1 98-02-11
		PT8632	1 98-05-12
CHECK:	NAME: PF/JML	3 SH SH 130 - 3	
BAC82953 SCM PCB A06731 KU		DAT. 98-02-11 A3L	

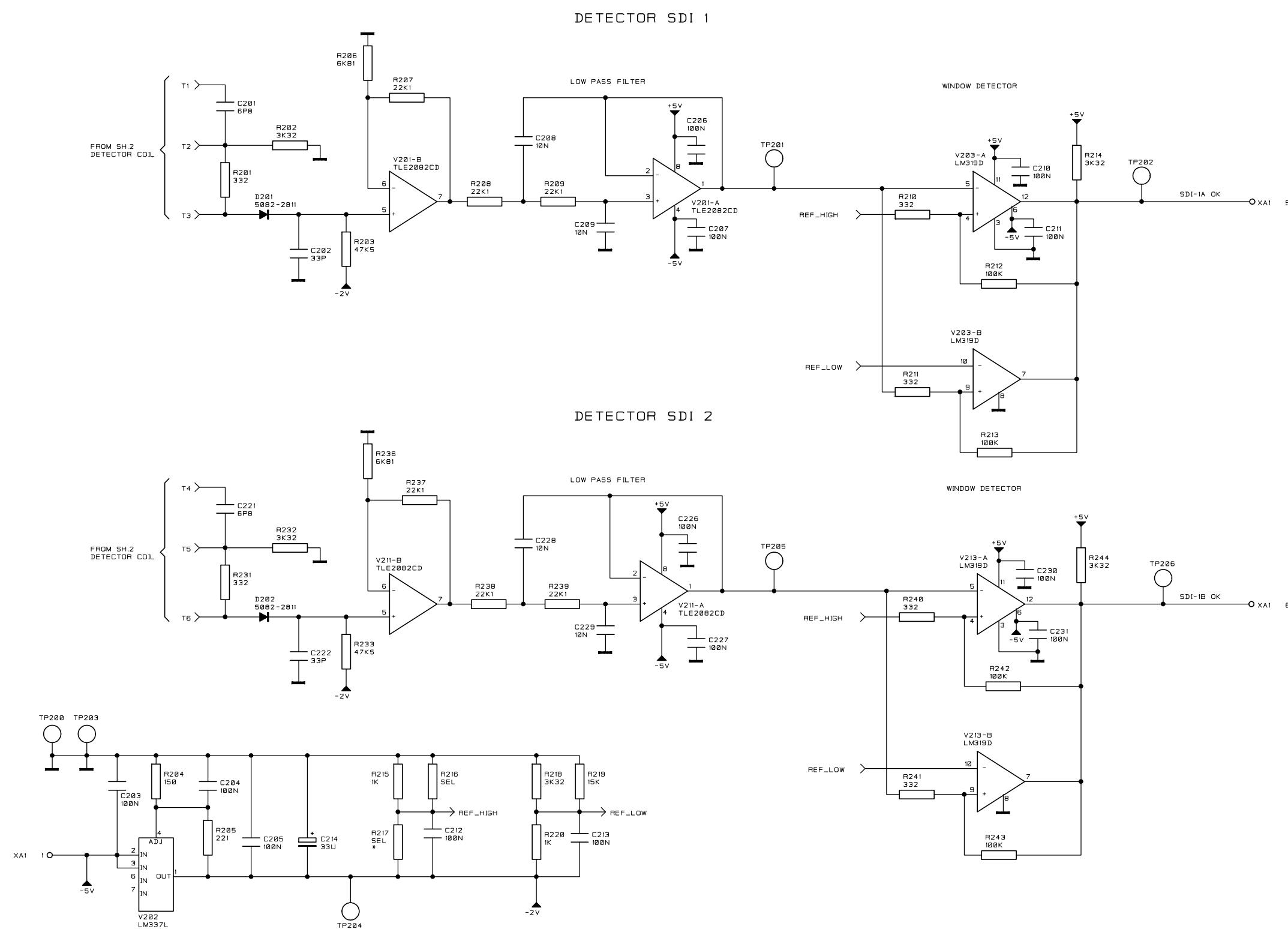


Blockdiagram - PT 8633

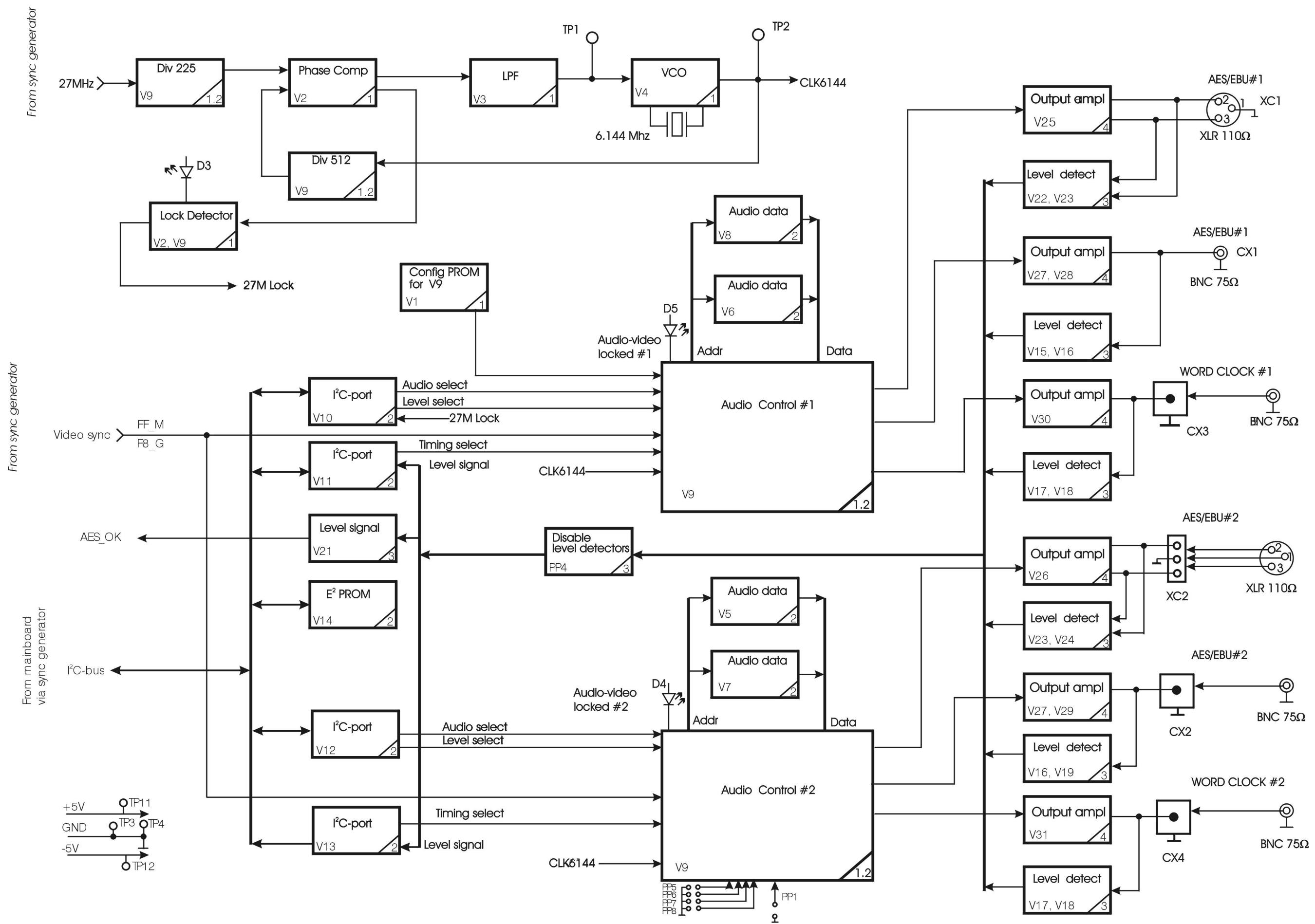


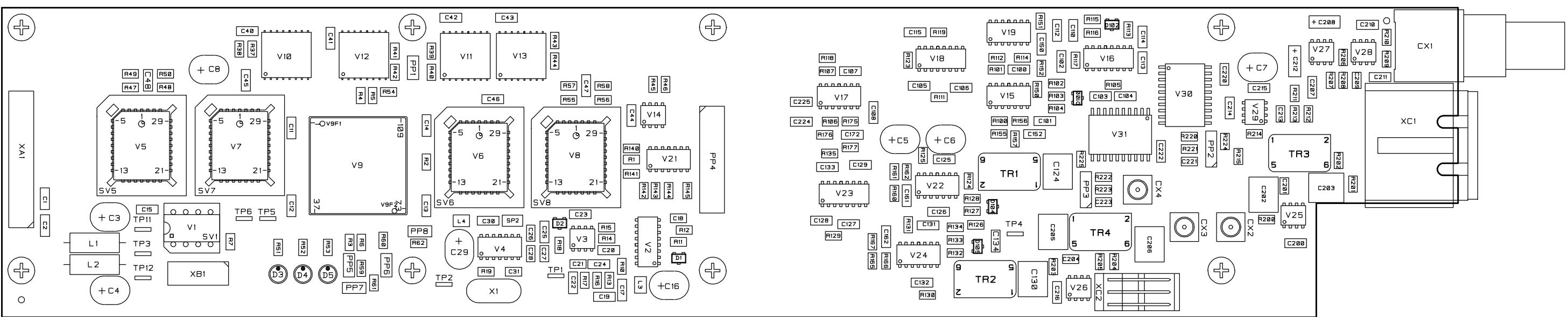




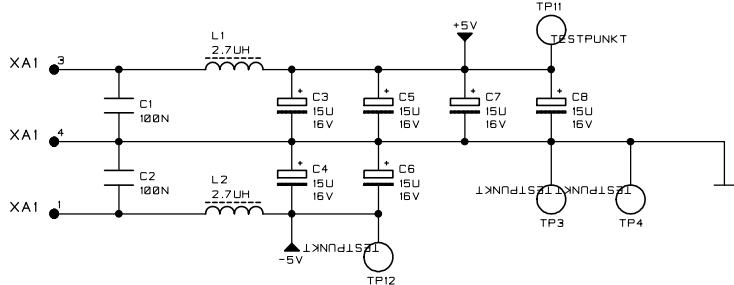


* NOT MOUNTED		SDI SIGNAL/ PATTERN GENERATOR	4008 109 8471	1
CHECK:	NAME: PF/JML			3 SH SH 130 - 3
BAC8471I A06661	SCM .PCB	KU		DAT. 96-04-22 A3L

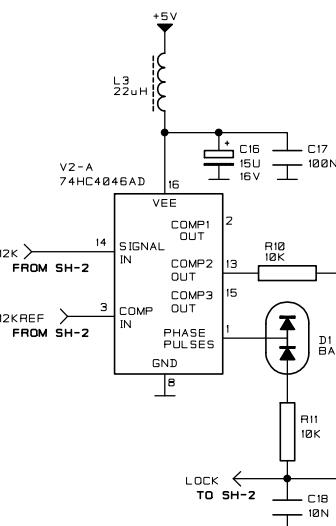




CONFIG PROM

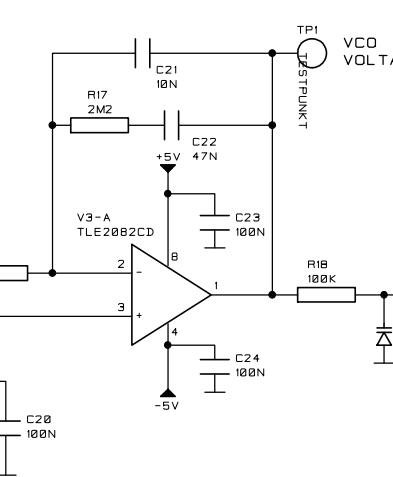


# PHASE COMPERATOR

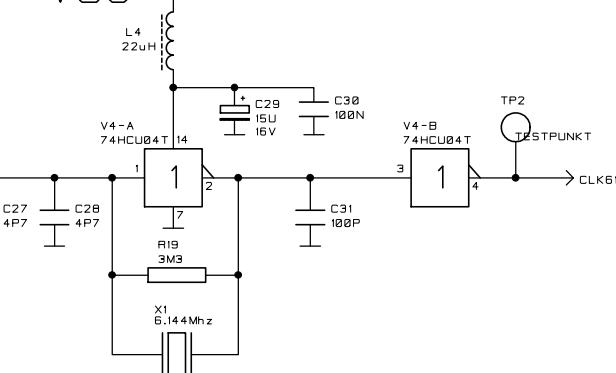


The circuit diagram shows a VCO with two outputs: OUT1 (VCO) and OUT2 (SE). The VCO is connected to a 74HC4046AD integrated circuit. The IC has several pins labeled: 6 (CA), 7 (CB), 11 (RI), 12 (R2), 9 (VCO IN), and 5 (VCO INH). A +5V power source is connected to pin 14 of the IC.

VCO  
FILTER



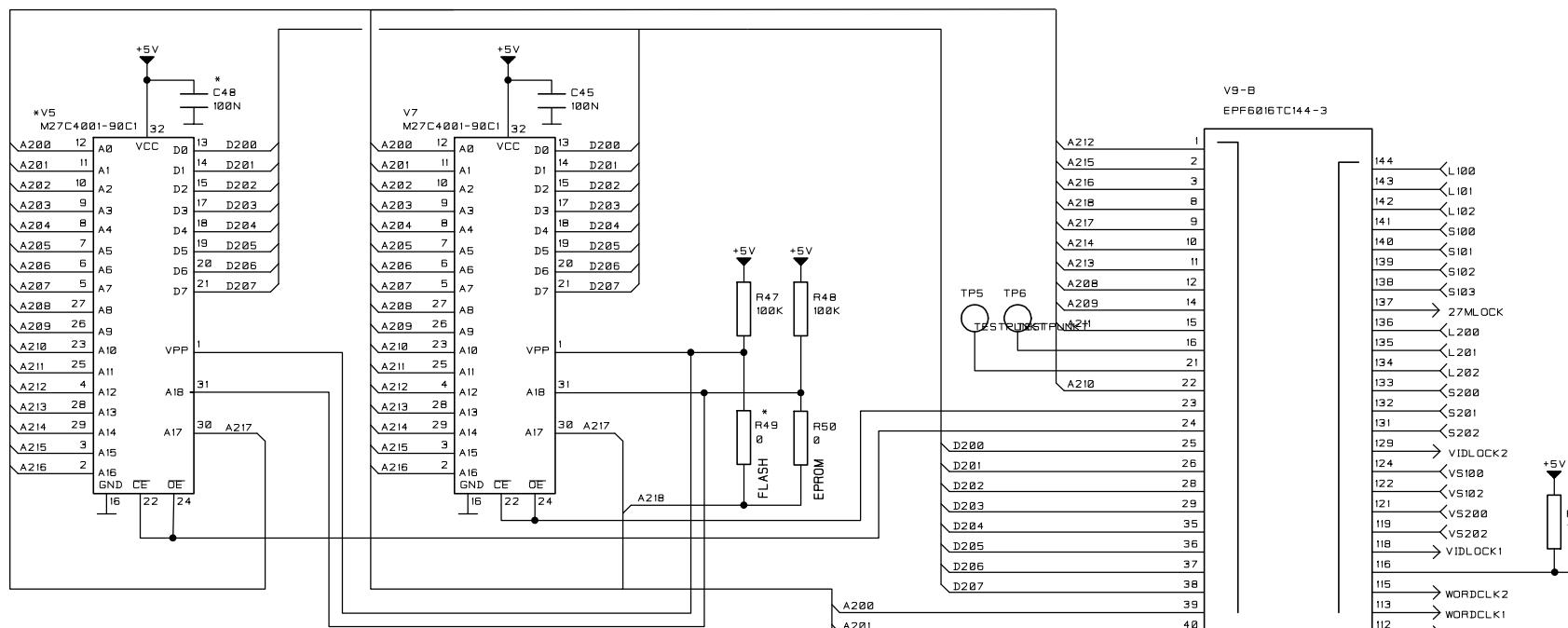
VG



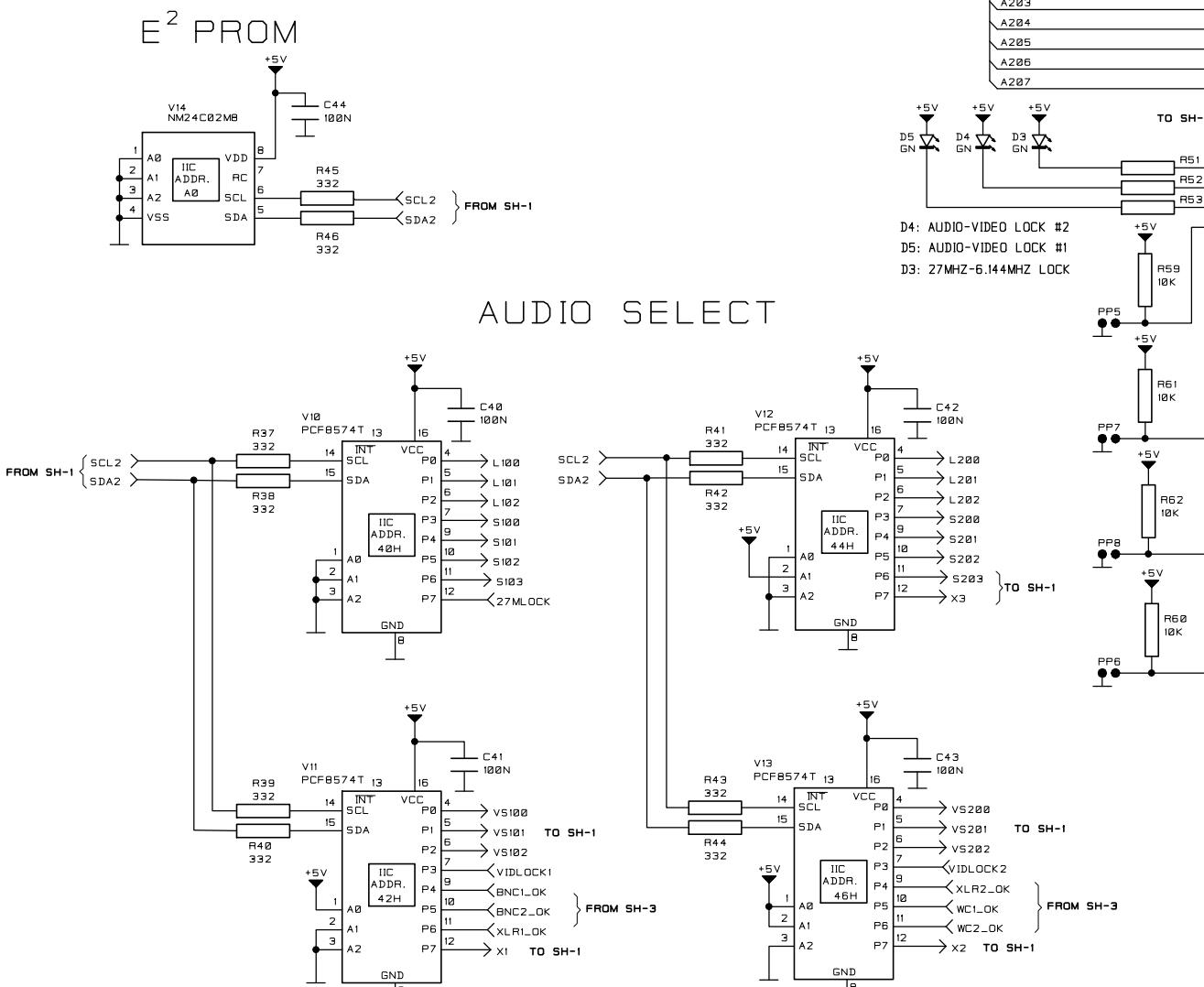
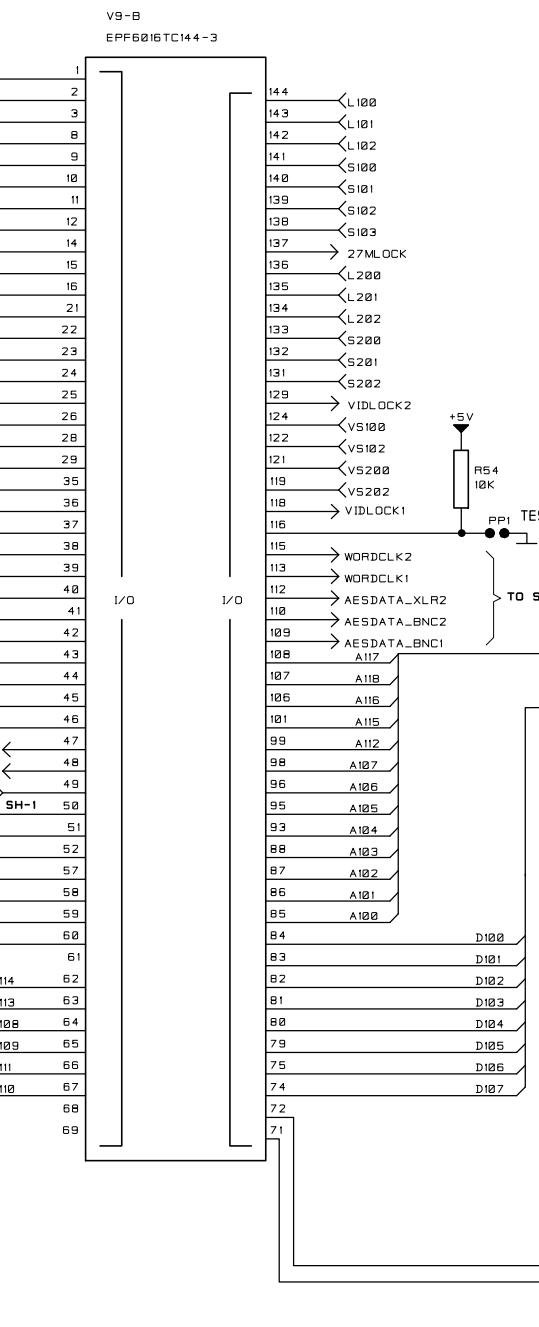
\* NOT MOUNTED

		DUAL AES/EBU AUDIO GENERATOR	4008 109 8490	1 98-04-24 1 98-06-10 2 98-06-30
CHECK:		NAME: PF/JML	SCALE 1:1 4 SH SH 130 - 1	
KU			DAT. 98-03-02	A3

## AUDIO DATA PROM (2)

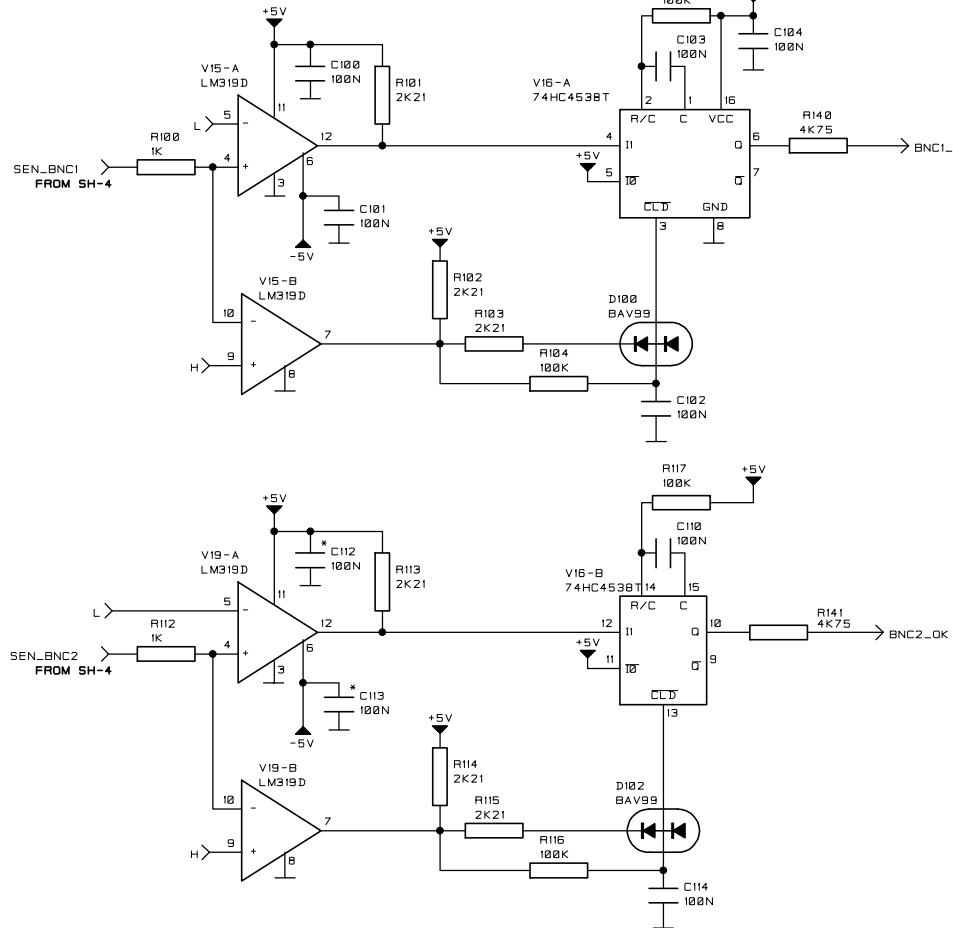


## AUDIO DATA PROM (1)

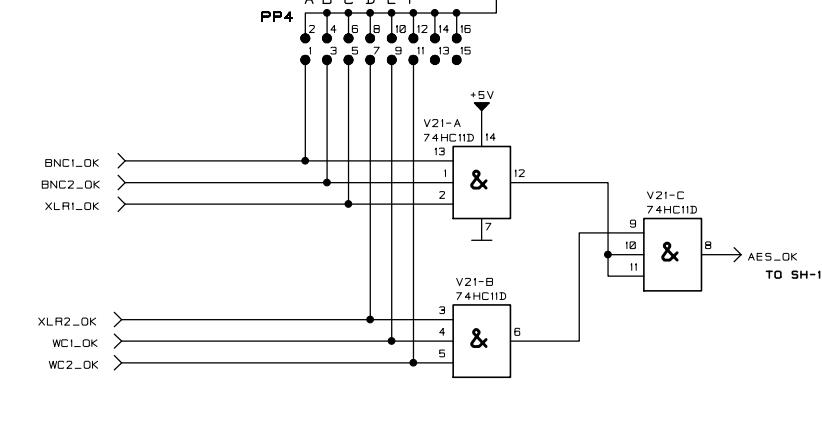
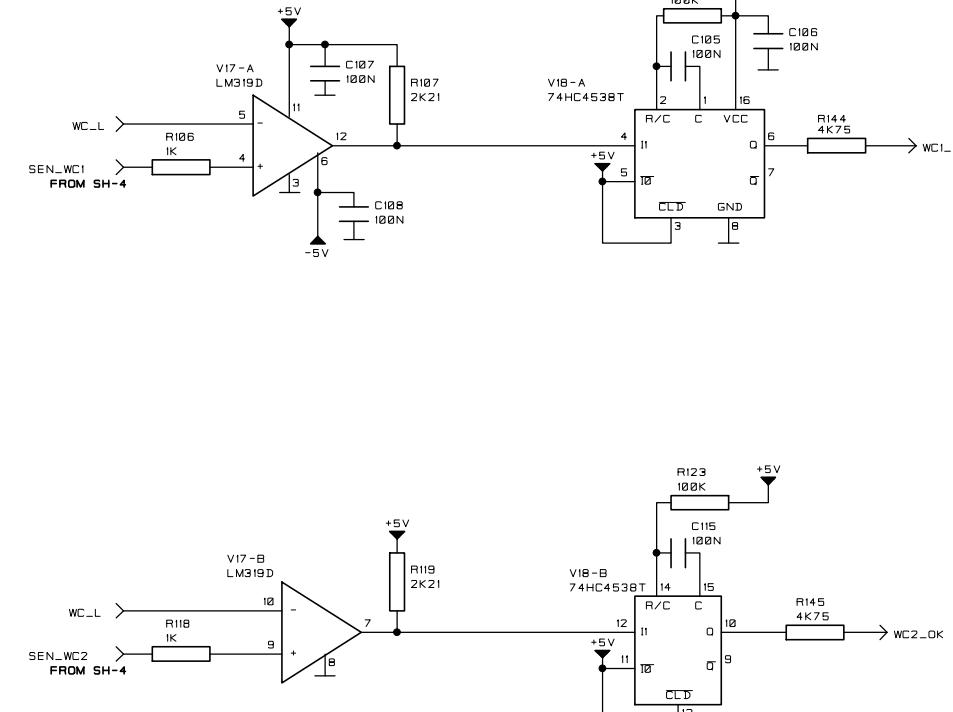


* NOT MOUNTED		DUAL AES/EBU AUDIO GENERATOR		4008 109 8490		1 98-04-24
V9F1	*	SV5 32K-PIN SOCKETS	SV7 32K-PIN SOCKETS			1 98-06-10
V9F2	*	SV6 32K-PIN SOCKETS	SV8 32K-PIN SOCKETS			2 98-06-30
CHECK:		NAME: PF/JML	SCALE 1:1	4 SH	SH 130- 2	
KU				DAT.	98-03-02	A3

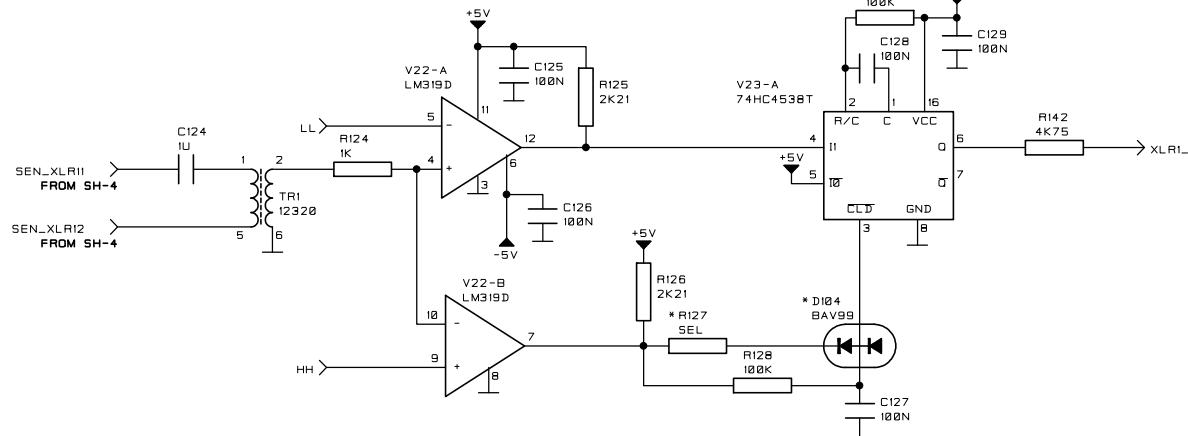
## BNC LEVEL DETECT



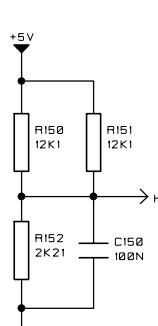
## WCLK LEVEL DETECT



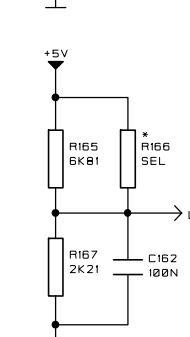
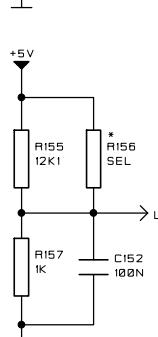
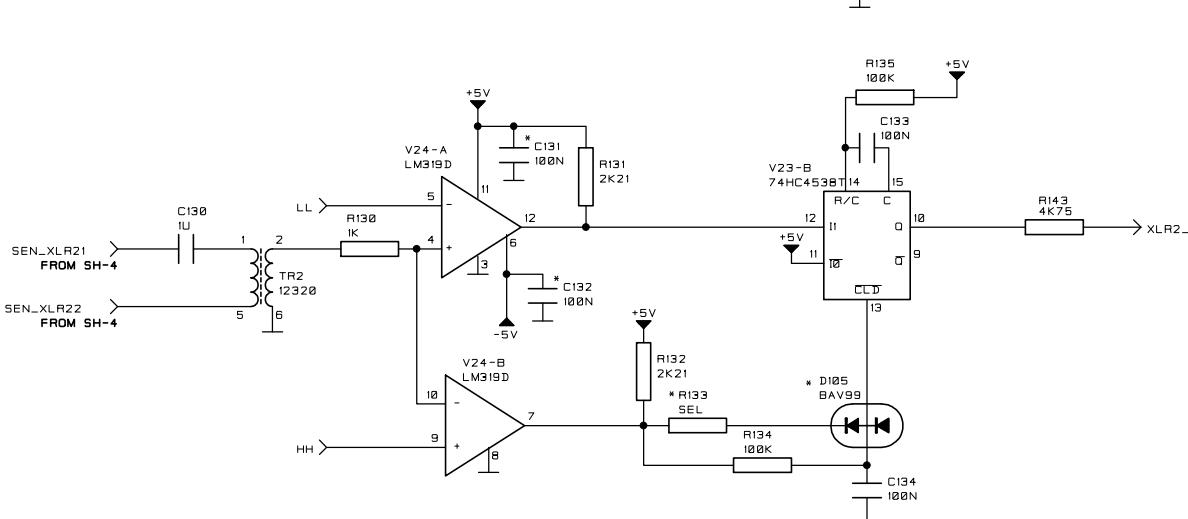
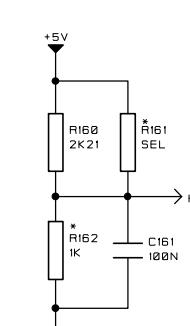
## XLR LEVEL DETECT



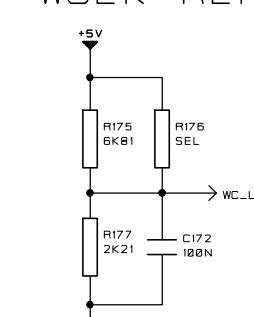
## BNC REF



## XLR REF



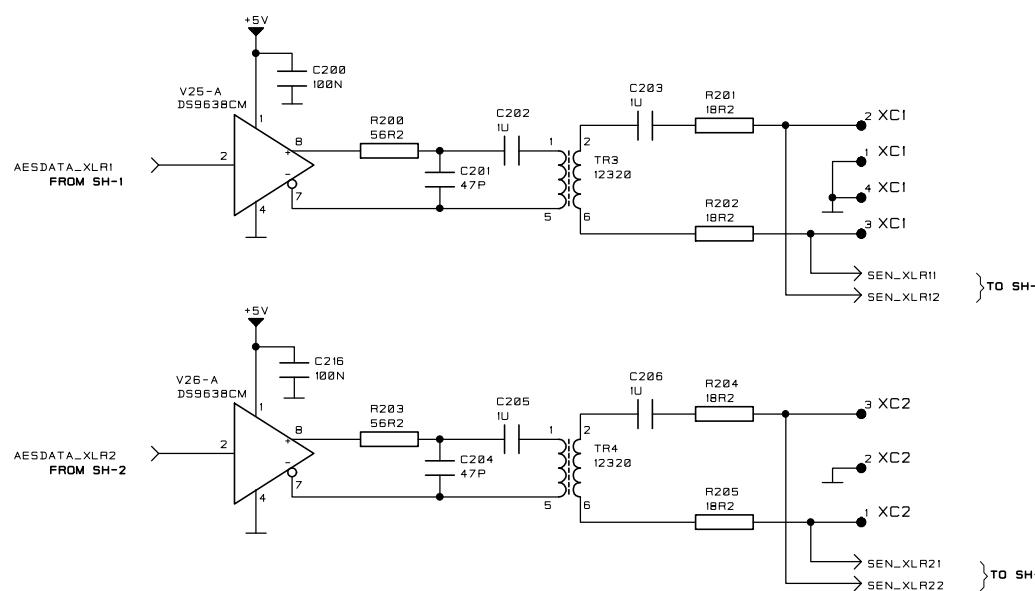
## WCLK REF



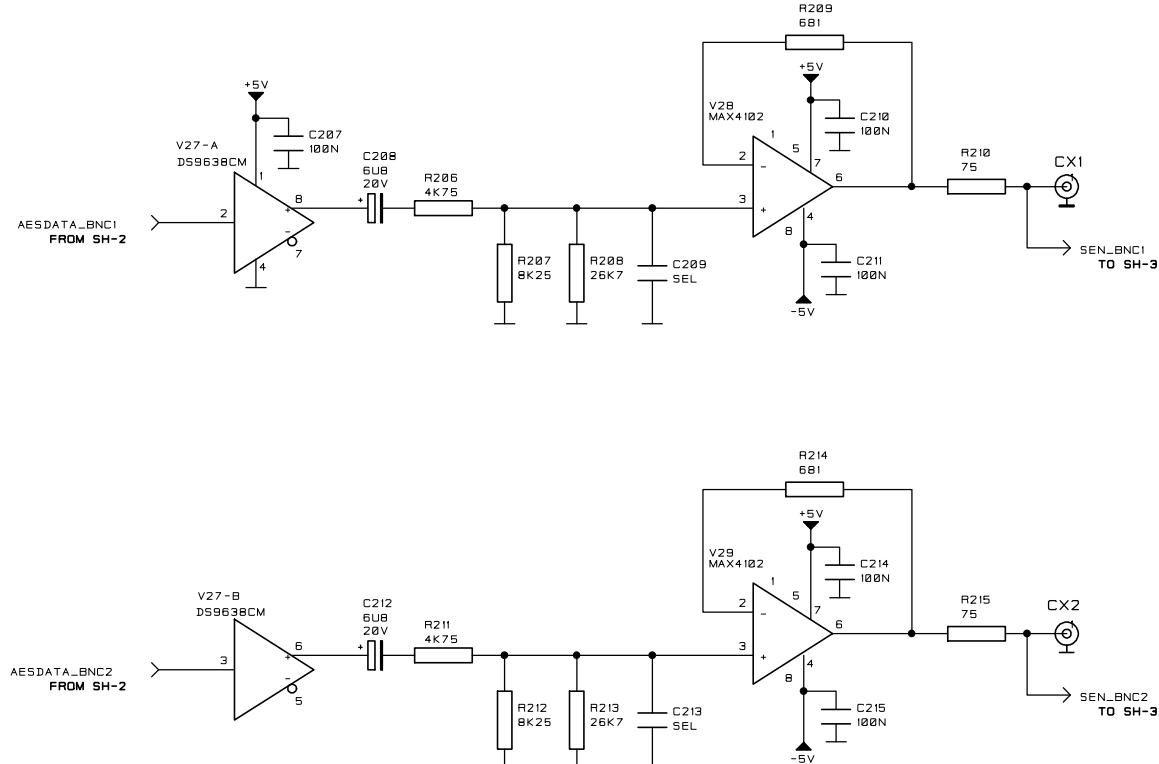
\* NOT MOUNTED

	DUAL AES/EBU AUDIO GENERATOR	4008 109 8490	1 98-04-24
CHECK:	NAME: PF/JML	SCALE 1:1	4 SH SH 130 - 3
KU			2 98-06-30
		DAT. 98-03-02 A3	

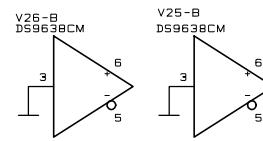
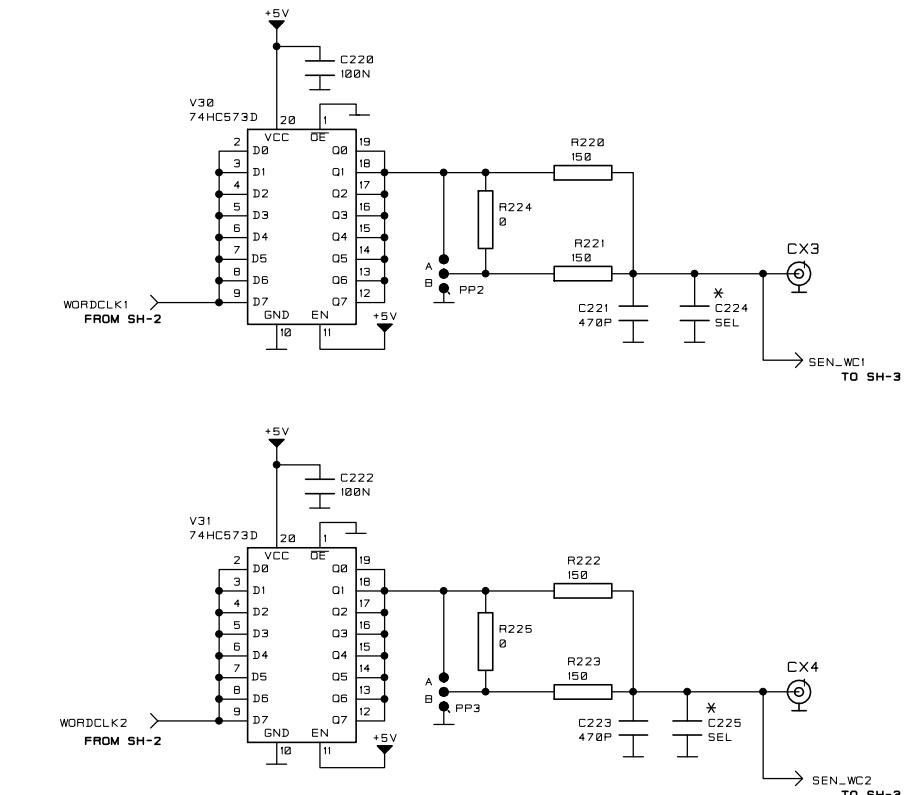
## XLR OUTPUT



## BNC OUTPUT

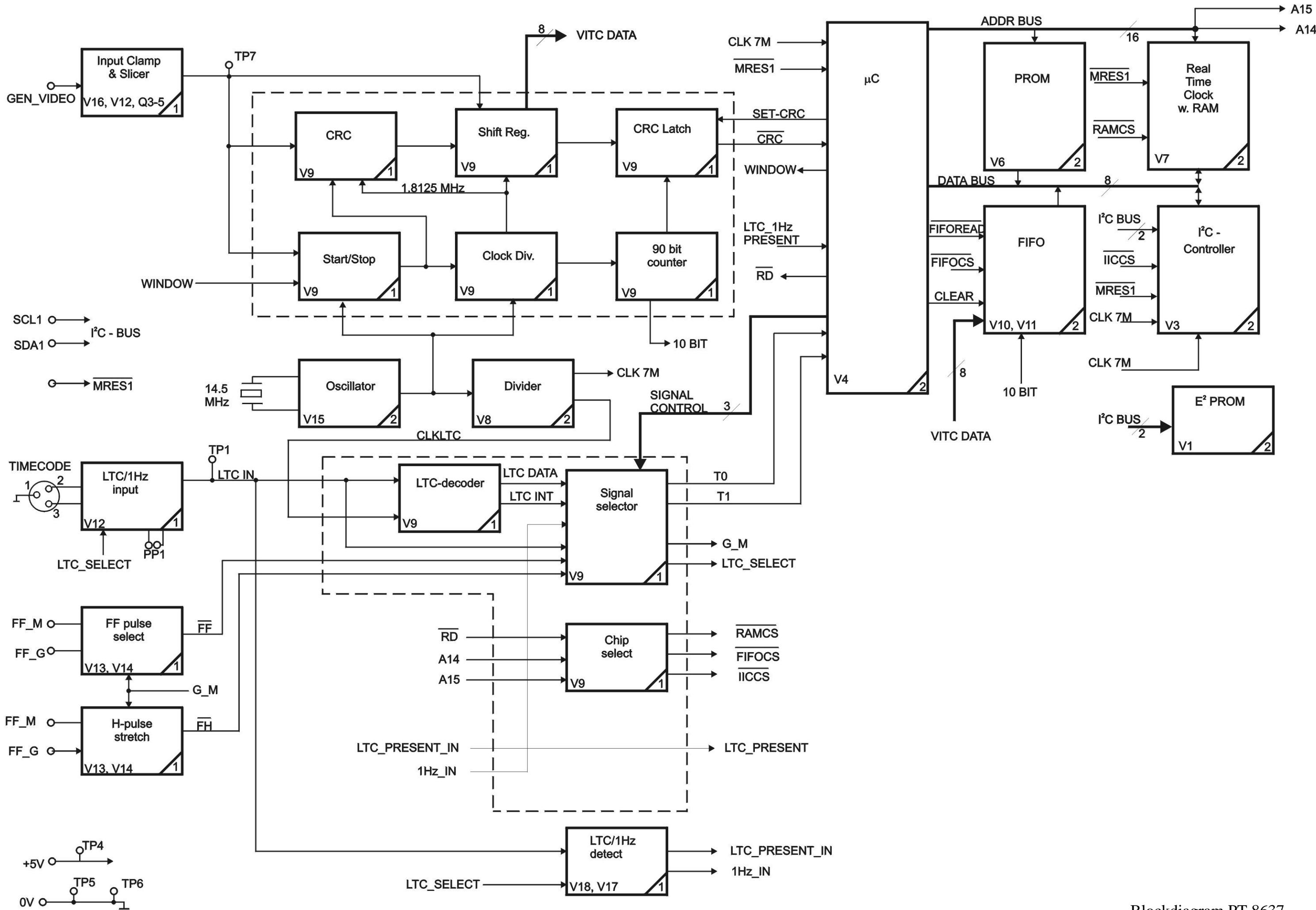


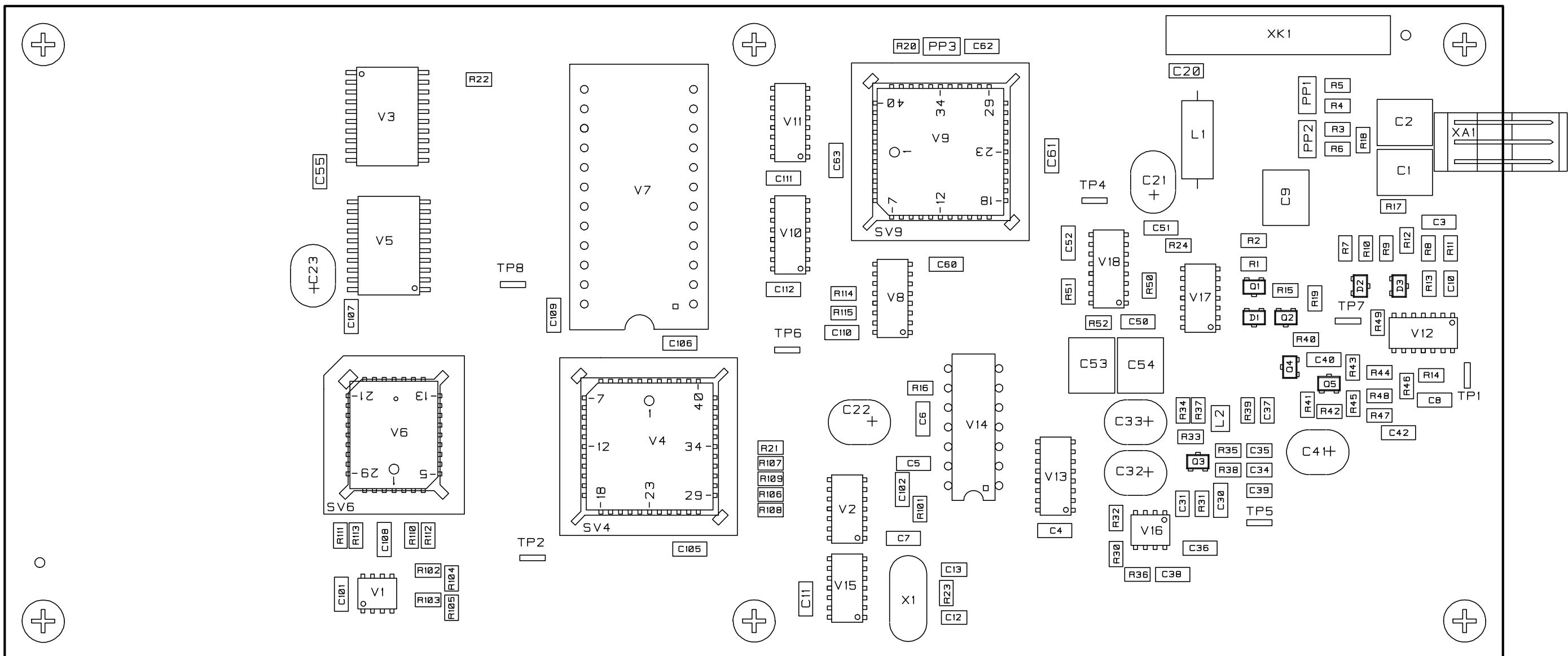
## WCLK OUTPUT



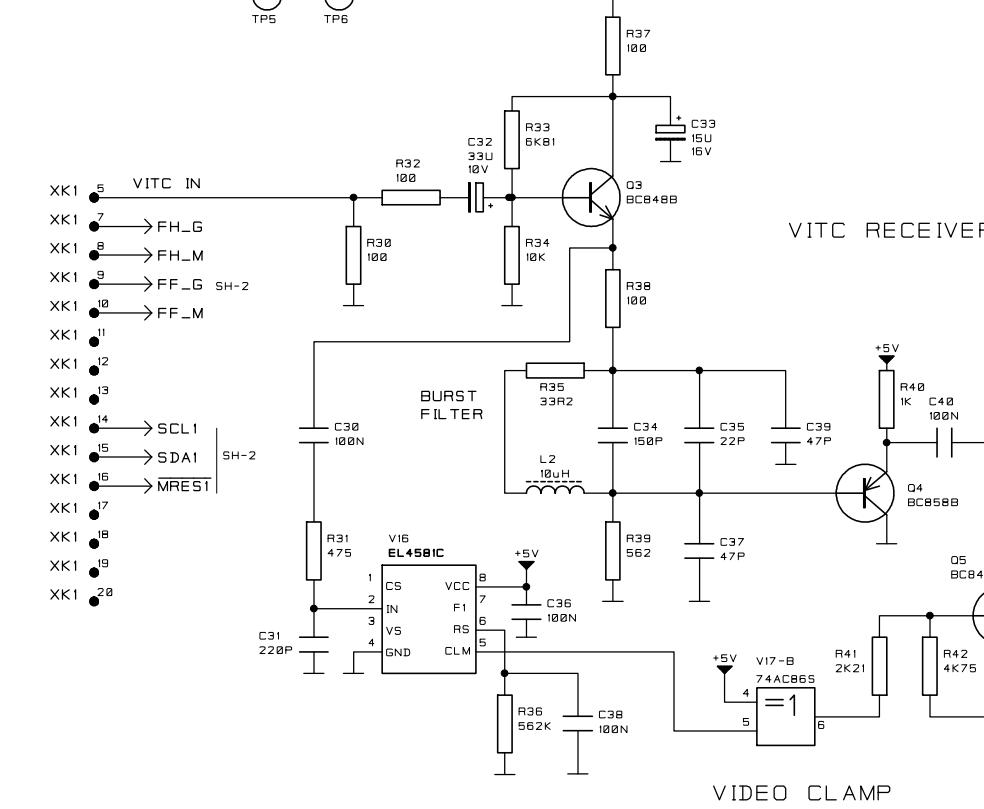
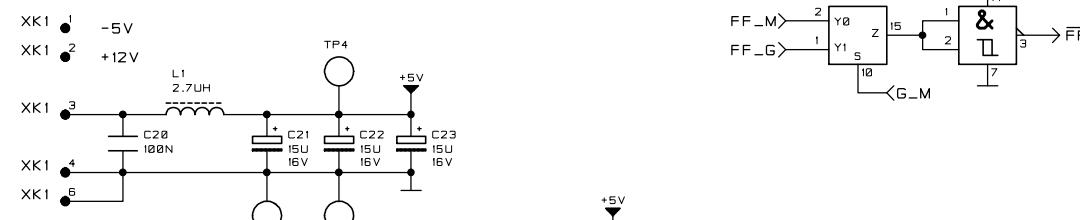
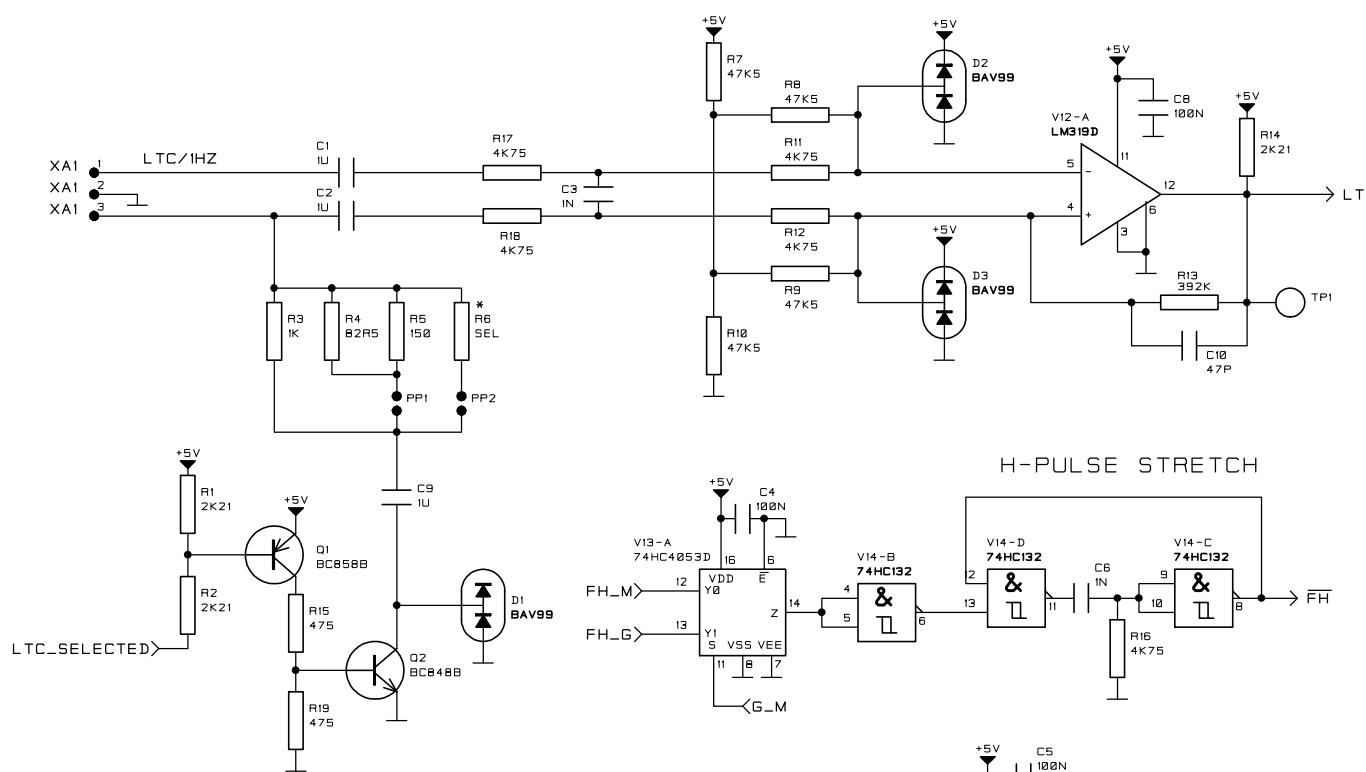
\* NOT MOUNTED

	DUAL AES/EBU AUDIO GENERATOR	4008 109 8490	1 98-04-24
CHECK:	NAME: PF/JML	SCALE 1:1	4 SH SH 130-4
KU			DAT. 98-03-02 A3

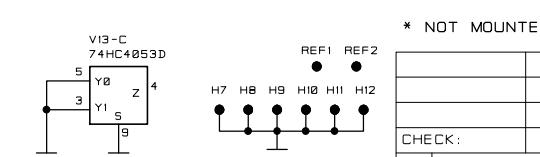
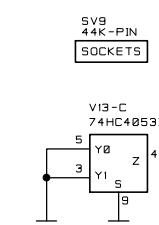
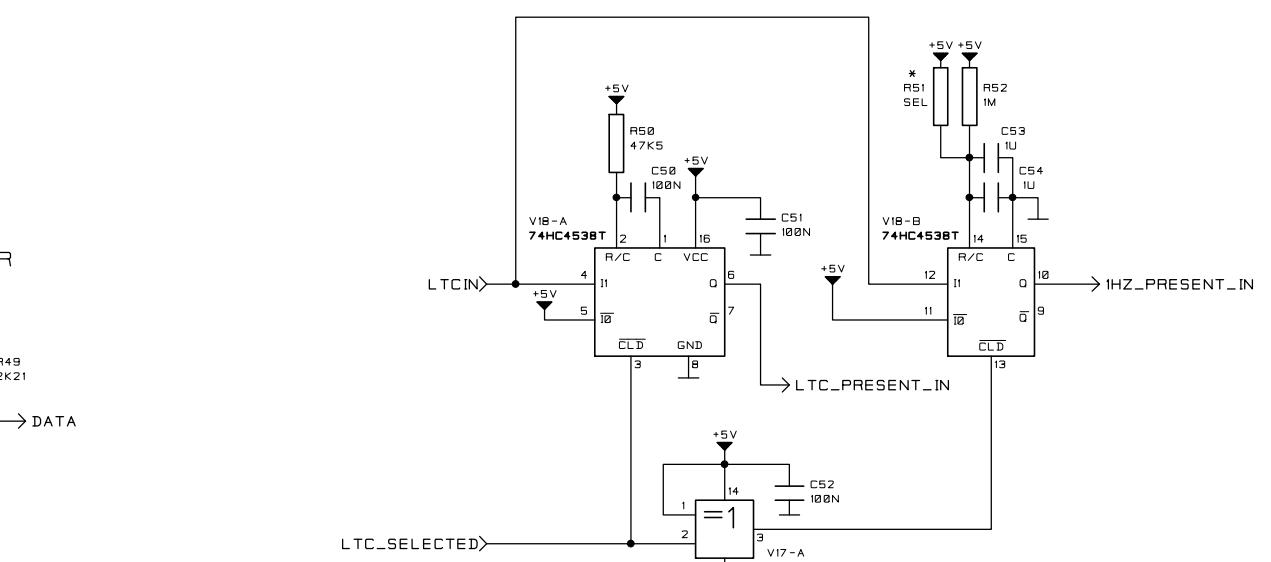




## LTC/1HZ RECEIVER

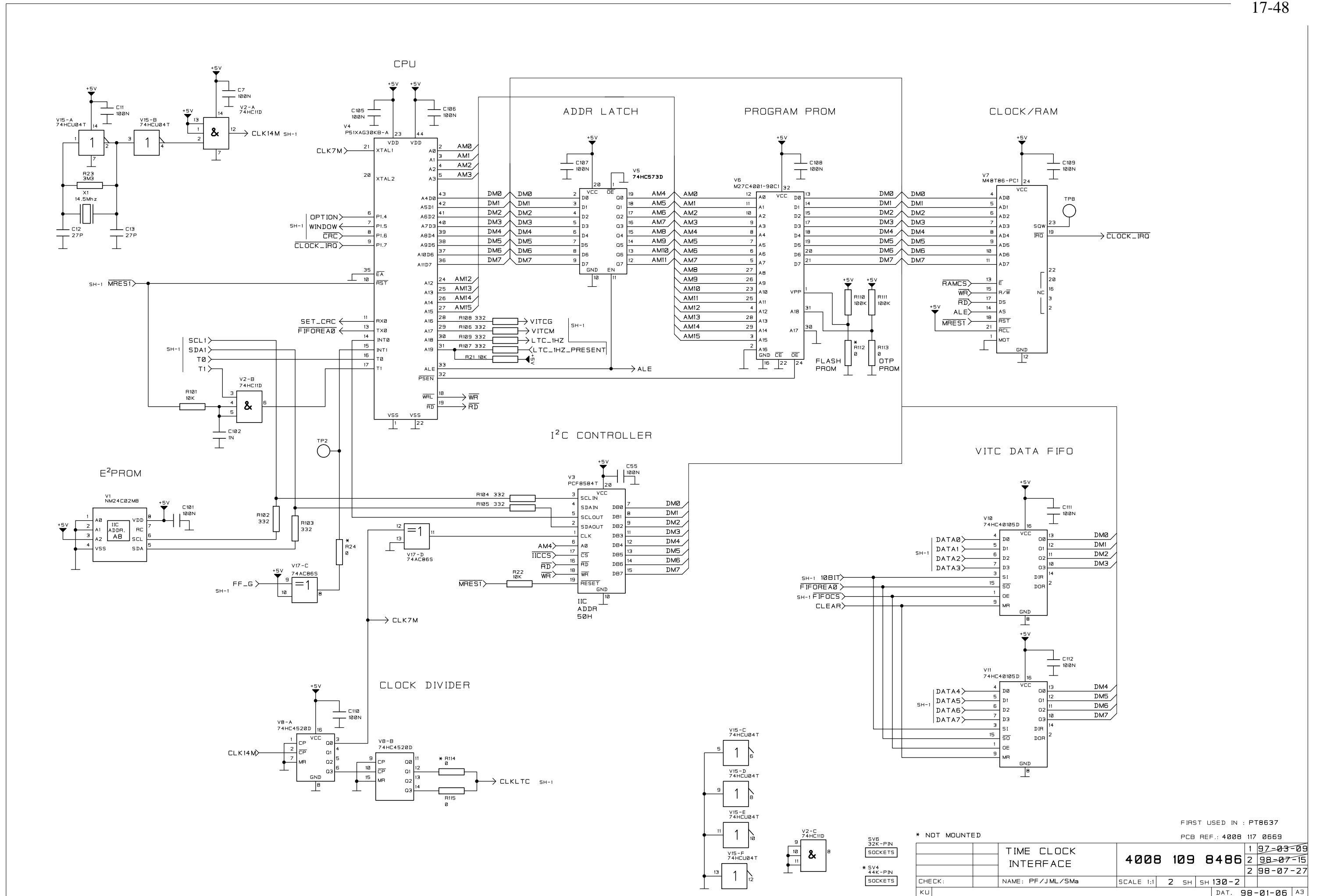


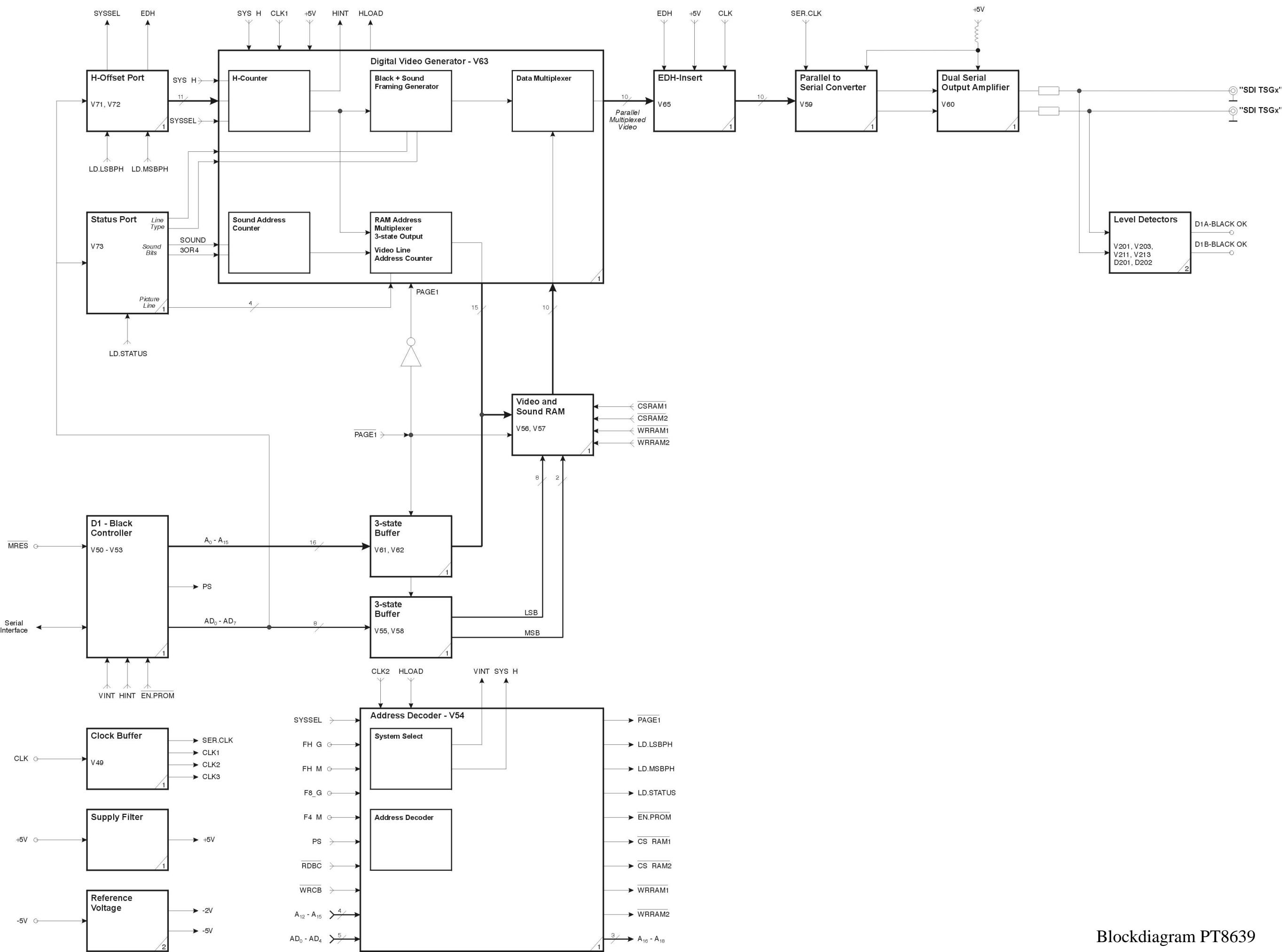
## VITC DATA SLICER



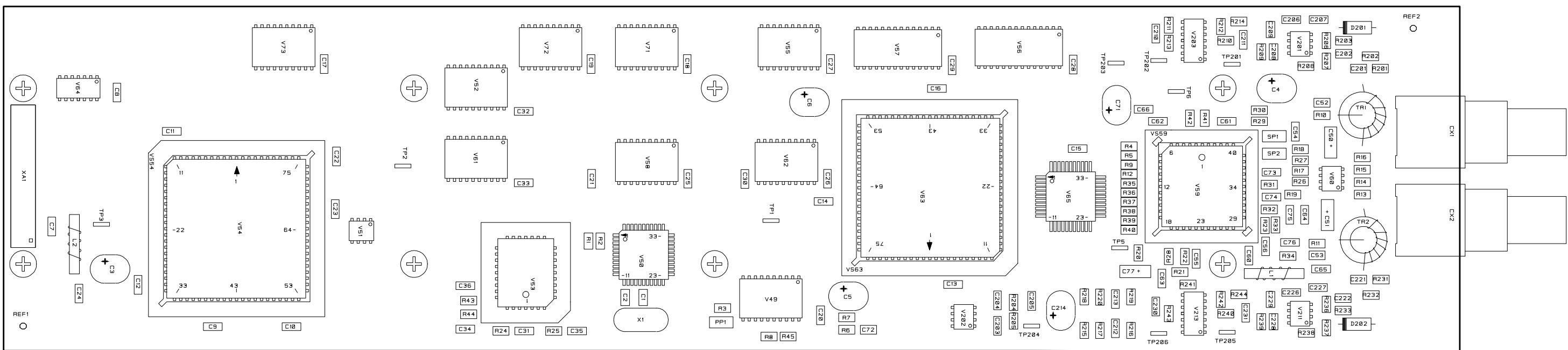
FIRST USED IN : PTB637  
PCB REF.: 4008 109 8486  
1 97-03-09  
2 98-07-15  
2 98-07-27

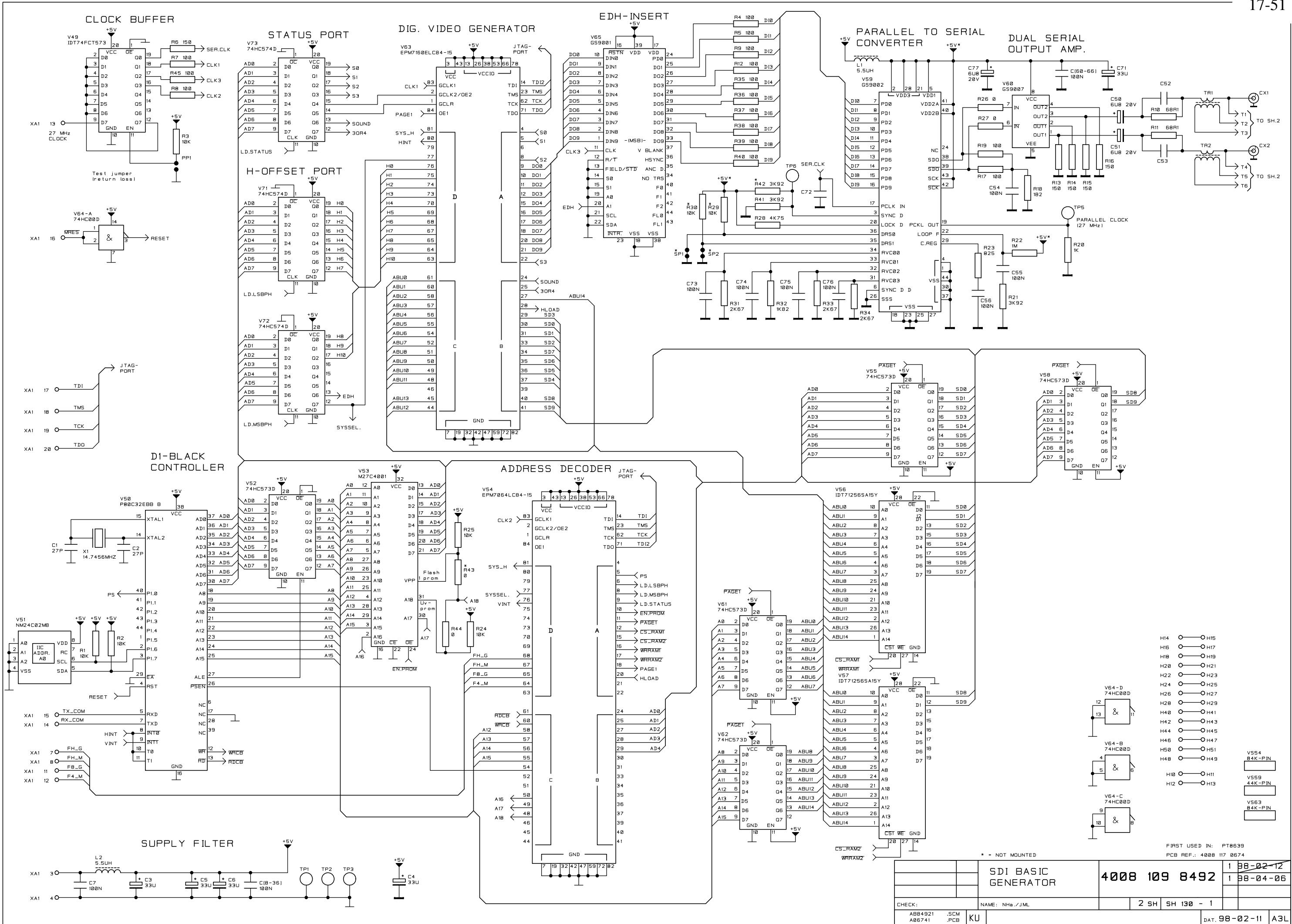
	TIME CLOCK INTERFACE	4008 109 8486
CHECK:	NAME: PF/JML/SMa	SCALE 1:1
KU	SH 130-1	DAT. 98-01-06 A3

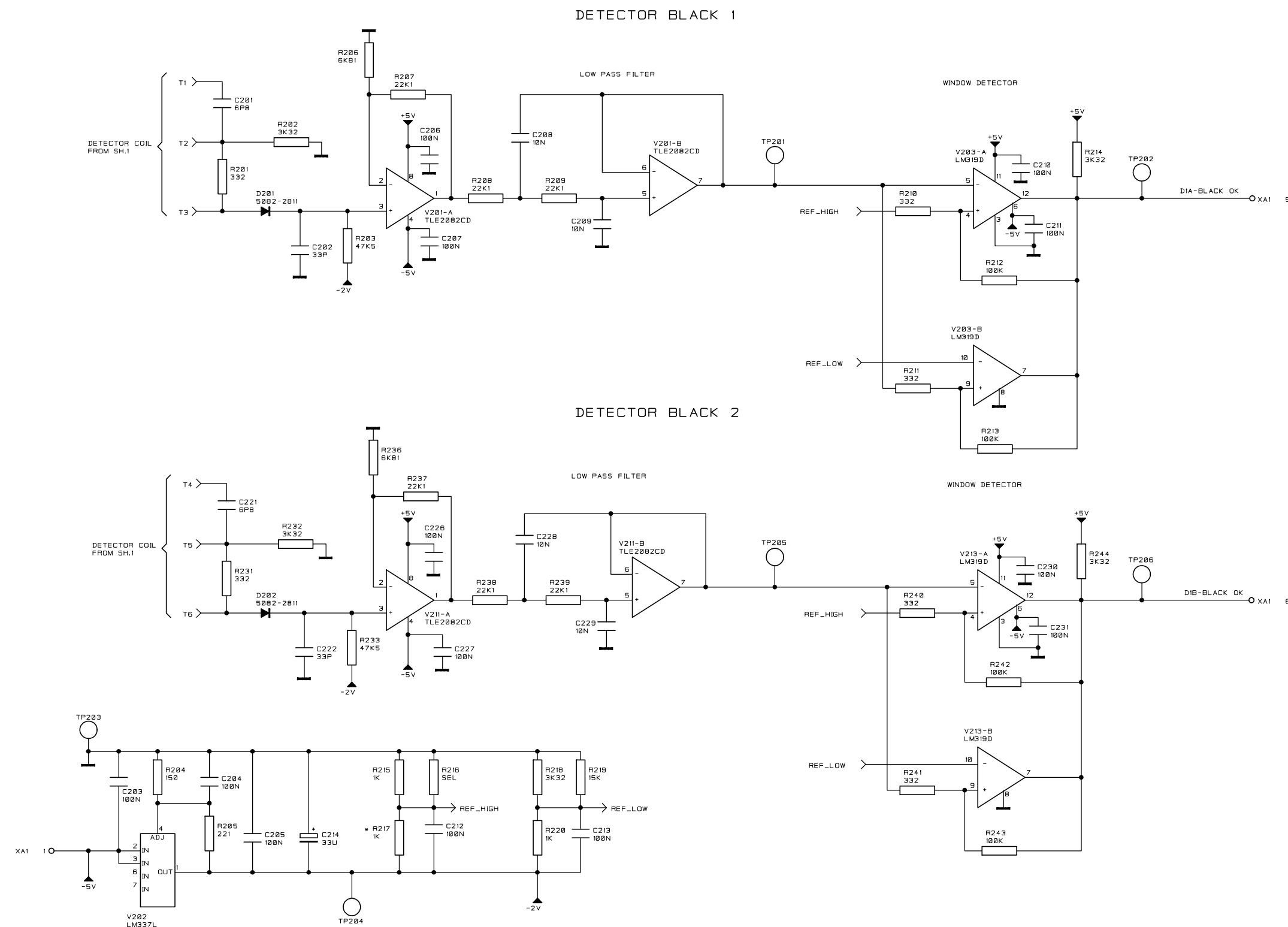




Blockdiagram PT8639





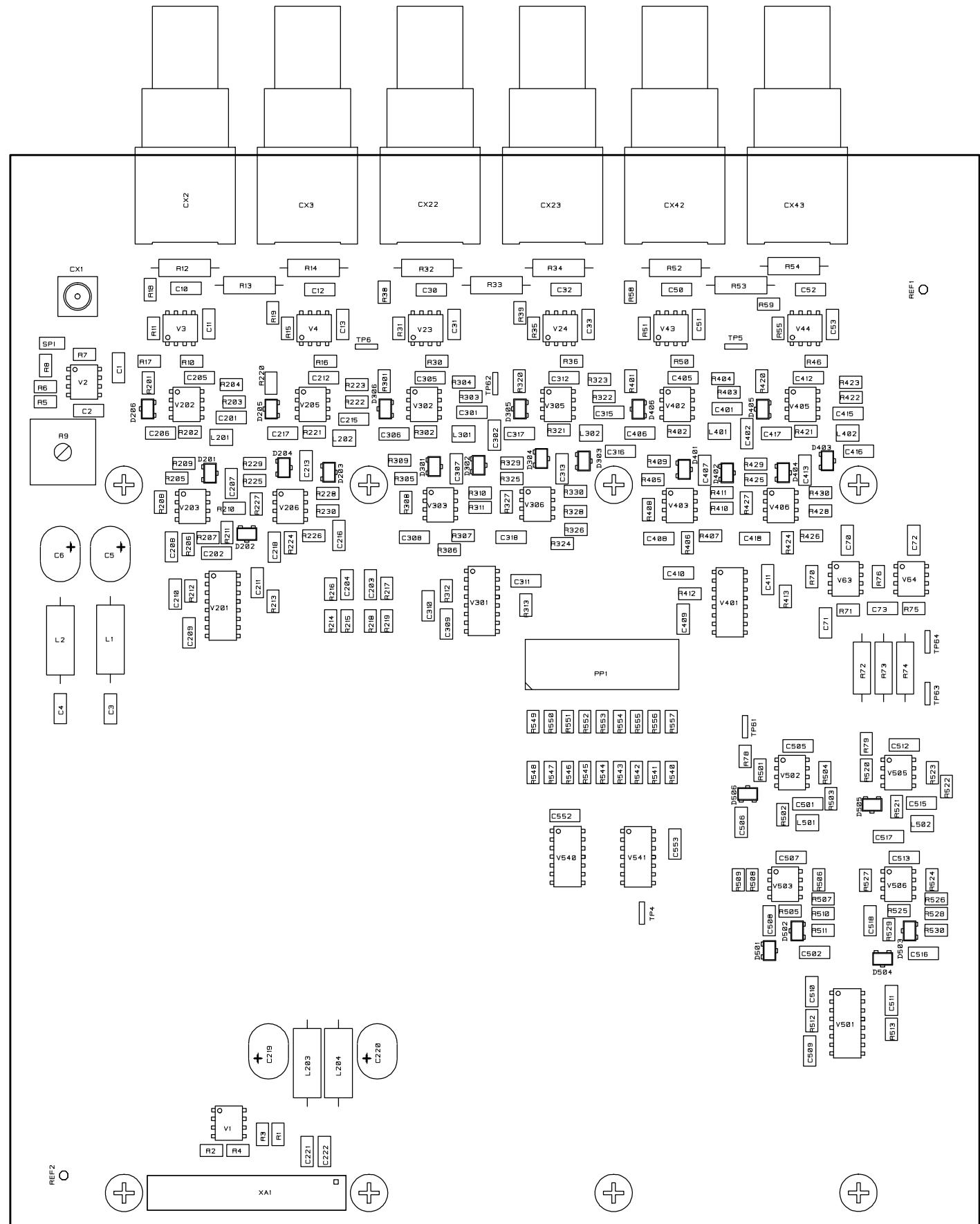


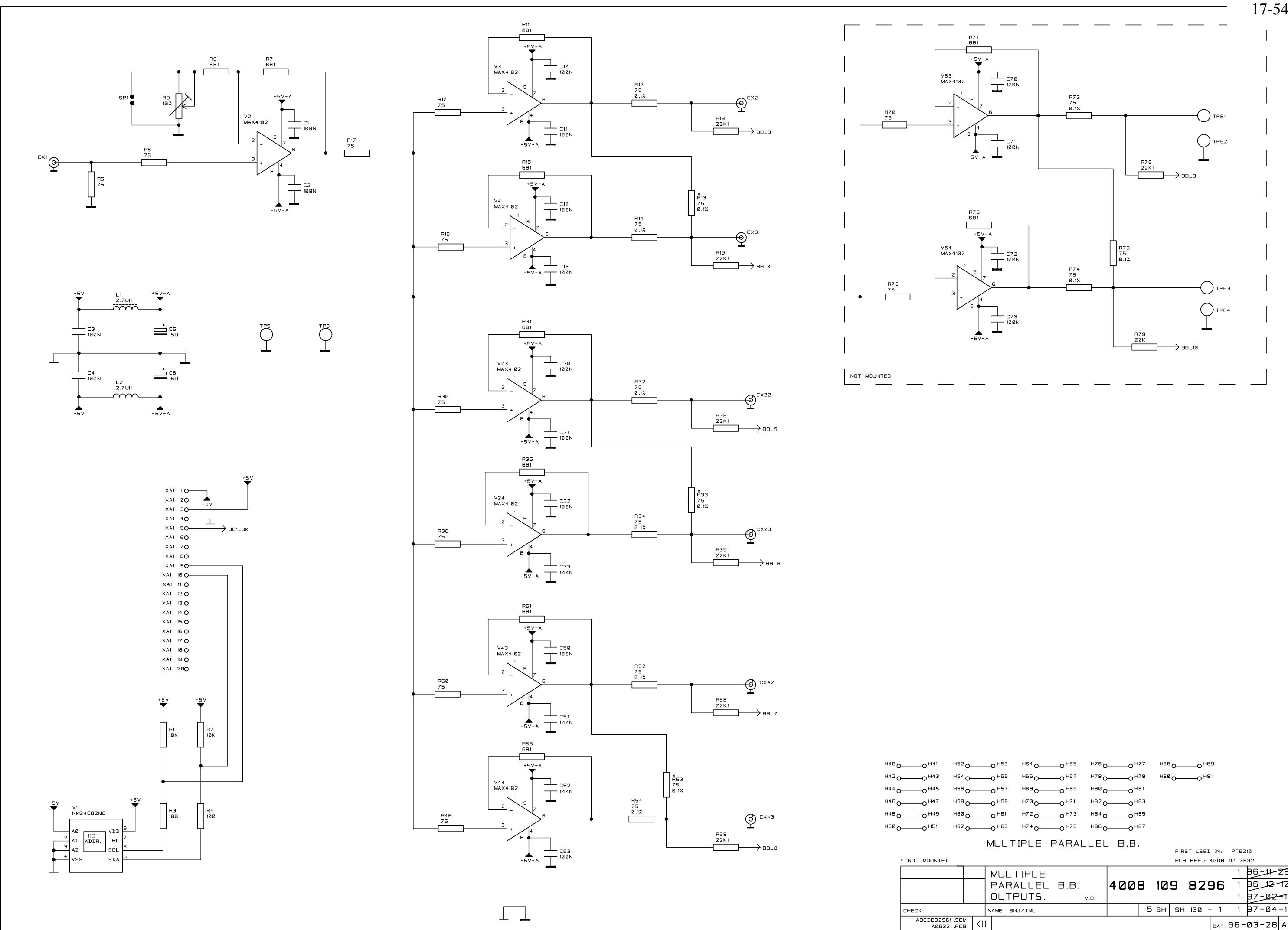
LEVEL DETECTOR SDI BASIC GENERATOR		4008 109 8492	1 98-02-12 1 98-04-06
CHECK:	NAME: PF/JML	2 SH	SH 130 - 2
BAB4921 A06741	SCM .PCB	KU	
			DAT. 98-02-11 A3L

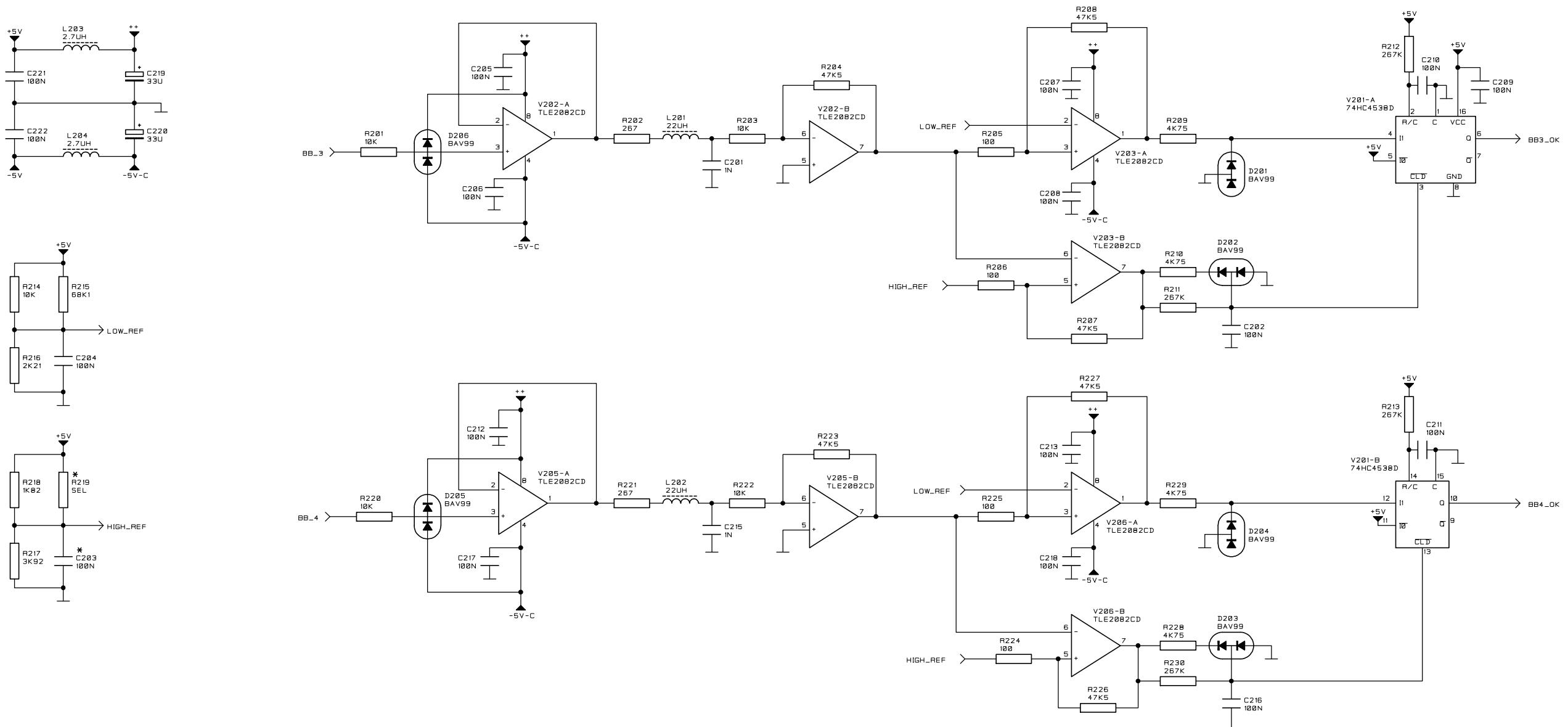
\* NOT MOUNTED

FIRST USED IN: PT8639

PCB REF.: 4008 117 0674

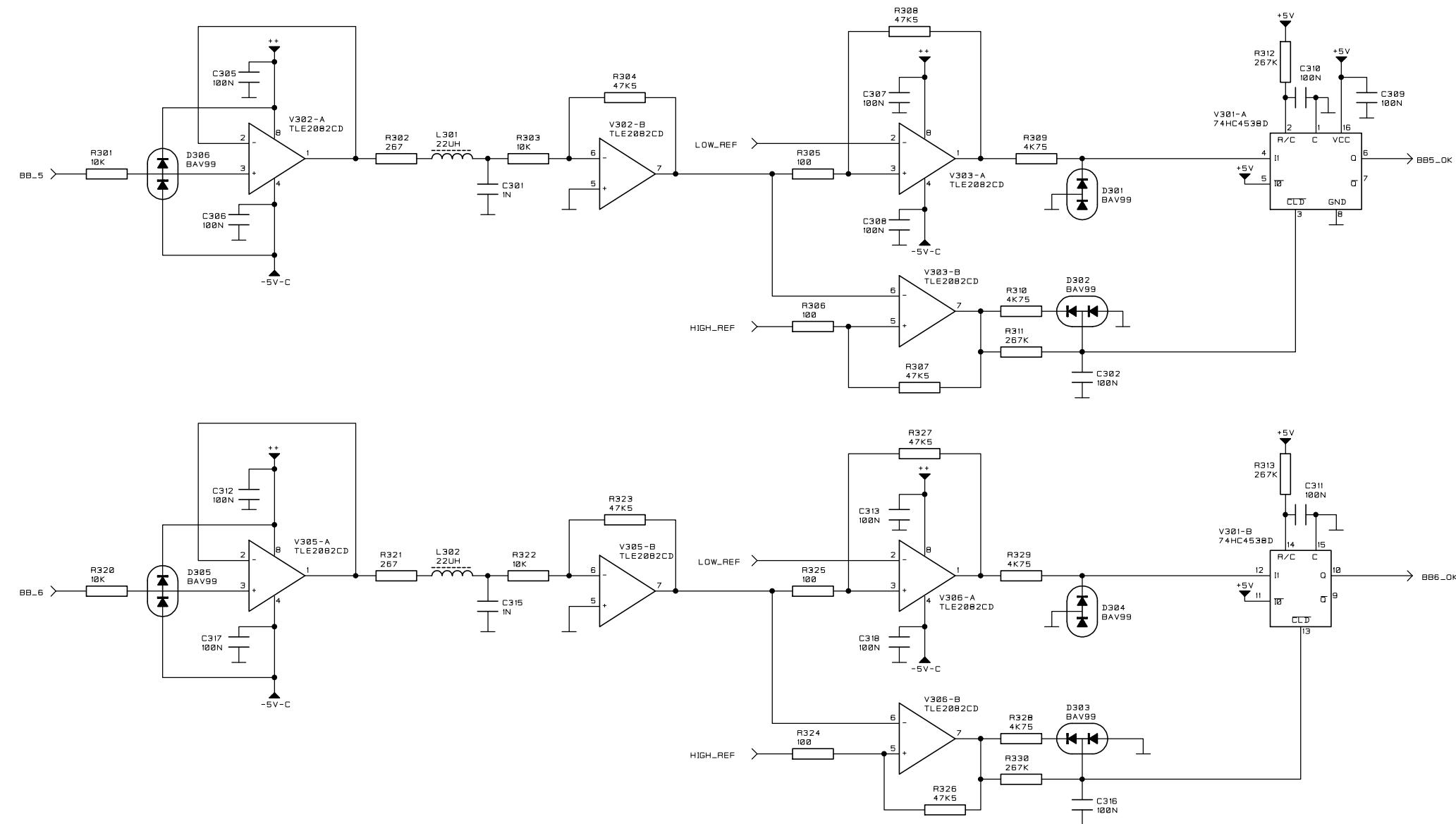






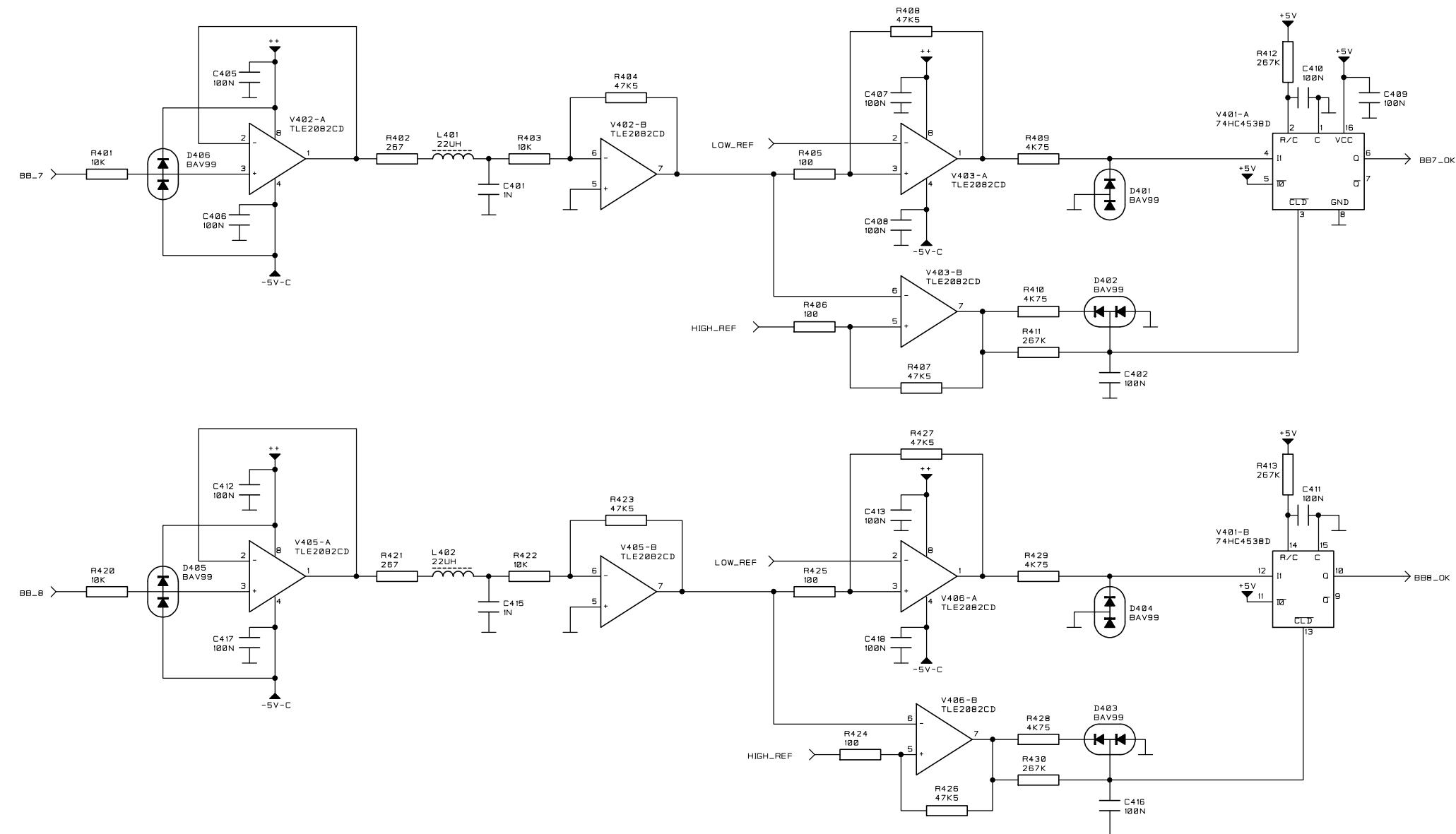
\* NOT MOUNTED

	MULTIPLE PARALLEL B.B. OUTPUTS	4008 109 8296	1 96-H-28
			1 96-12-09
			1 97-02-18
CHECK:	NAME: SNJ/JML	5 SH SH 130 - 2	1 97-04-11
BACDEB2961SCM A06321 .PCB	KU		DAT. 96-09-15 A3L



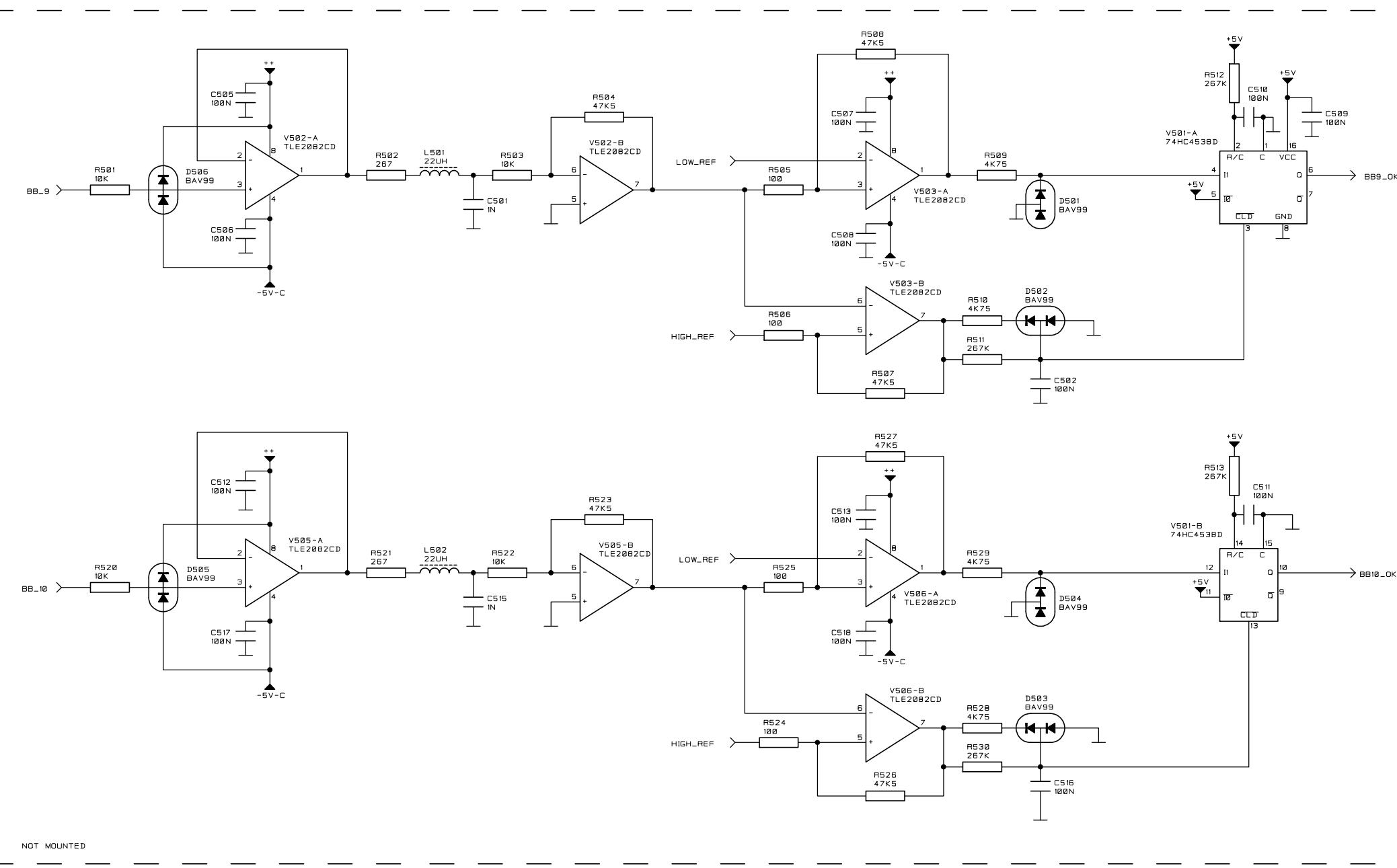
FIRST USED IN: PT5210  
PCB REF.: 4008 117 0632

	MULTIPLE PARALLEL B.B OUTPUTS	4008 109 8296	1 96-11-28
			1 96-12-09
			1 97-04-11
CHECK:	NAME: SNJ/JML	4 SH SH 130 - 3	
	CDAB8293I.SCM A06291.PCB	KU	
			DAT. 96-09-15 A3L

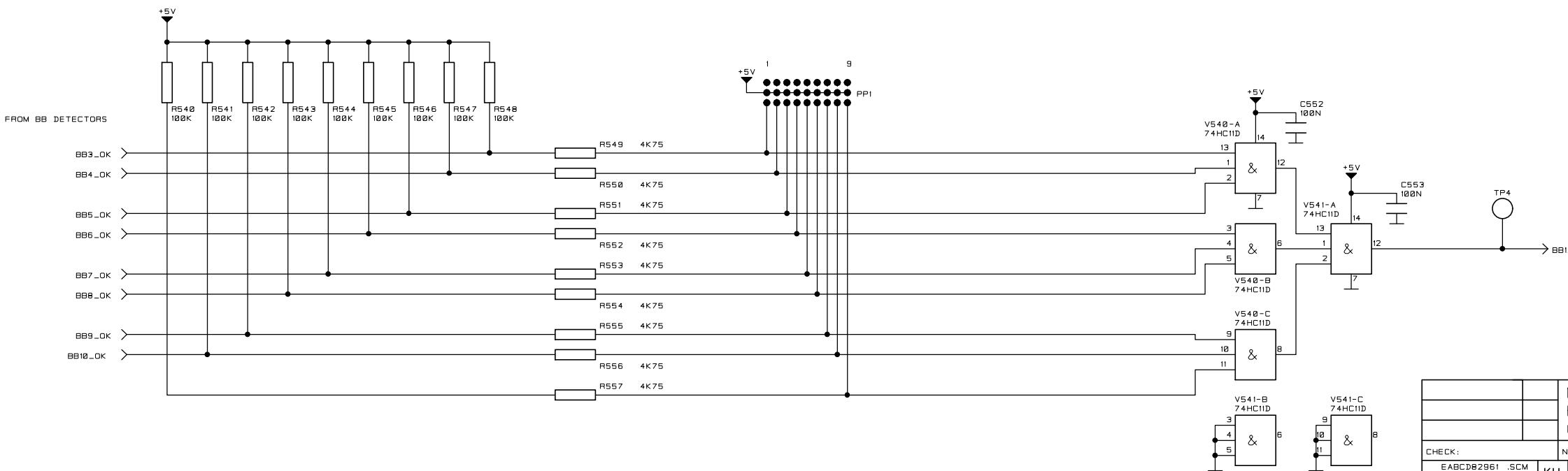


FIRST USED IN: PT5210  
PCB REF.: 4008 117 0632

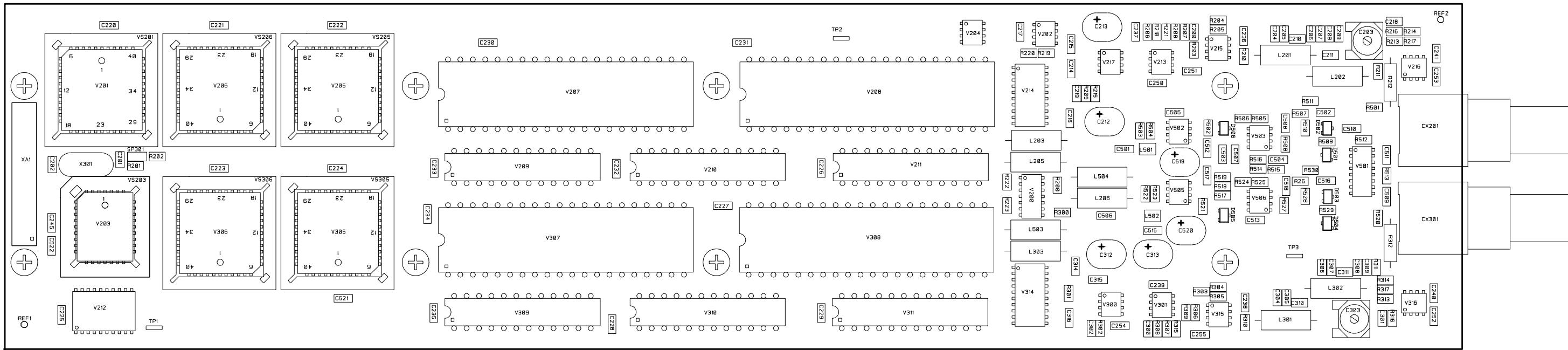
	MULTIPLE PARALLEL B.B. OUTPUT	4008 109 8296	1 96-11-28
			1 96-12-09
			1 97-04-11
CHECK:	NAME: SNJ/JML	5 SH SH 130 - 4	
	DEABC82931SCM A06321.PCB	KU	DAT. 96-09-15 A3L

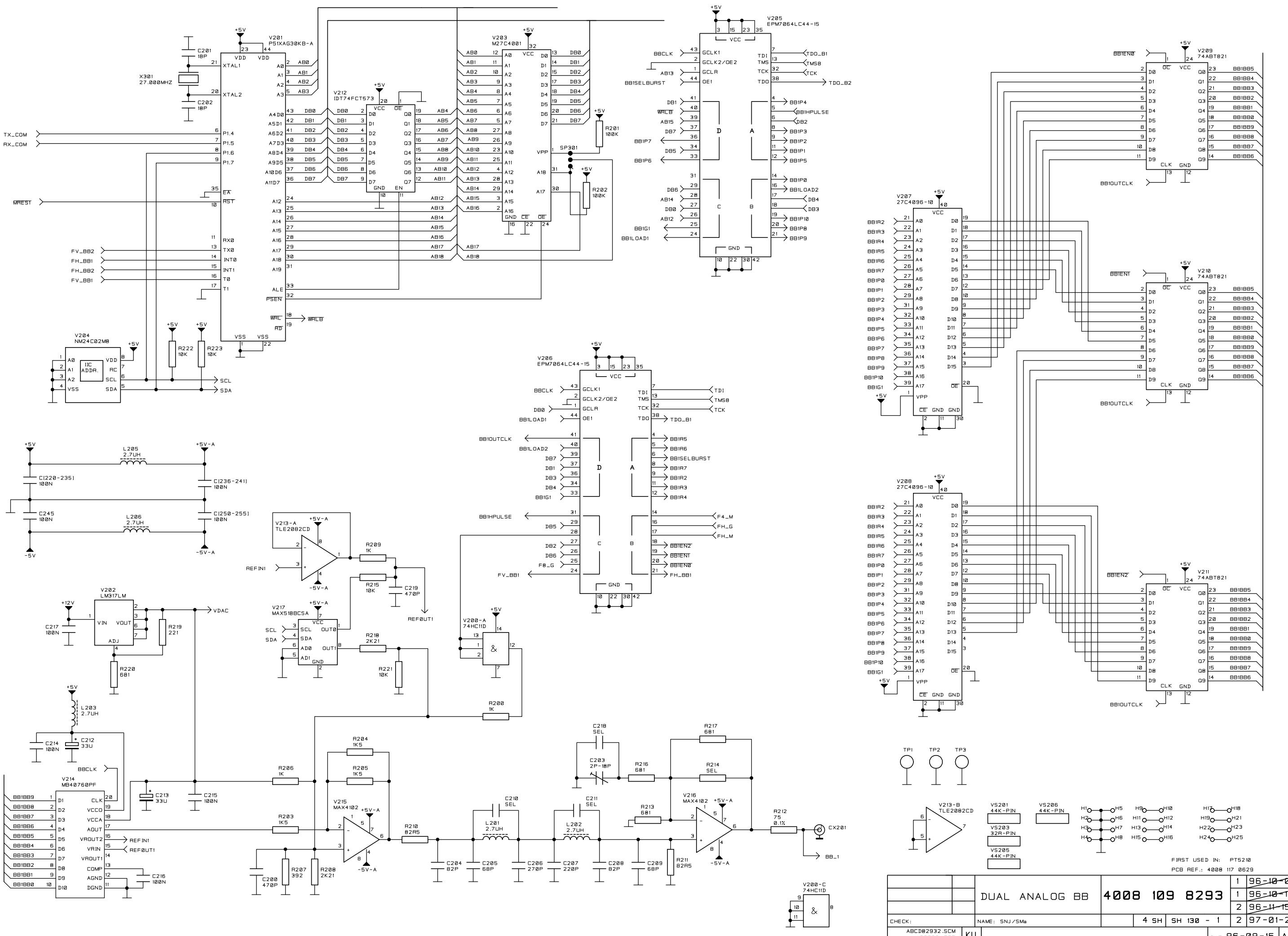


NOT MOUNTED

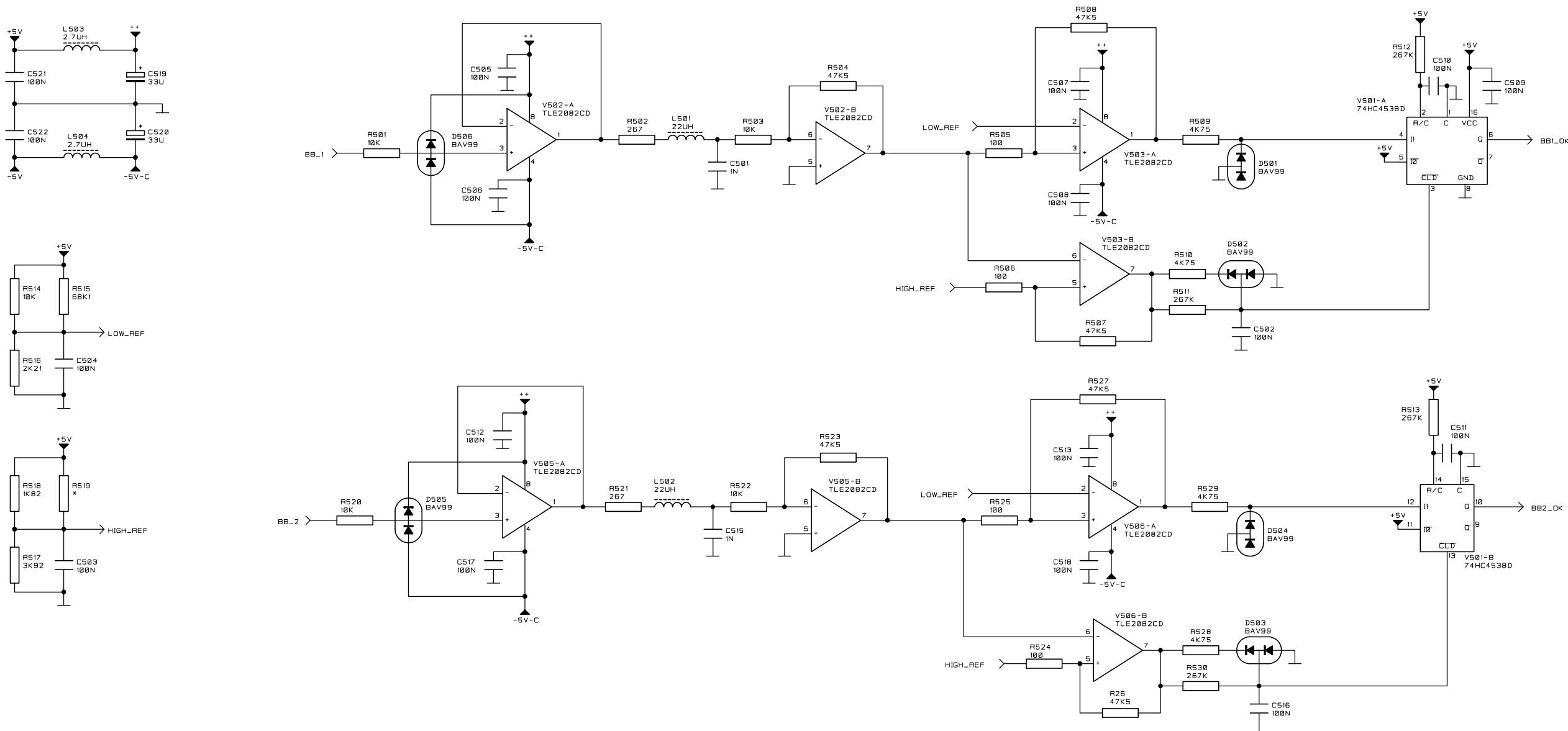


	MULTIPLE PARALLEL B.B. OUTPUTS	1 96-11-28
CHECK:	NAME: SNJ/JML	1 96-12-09
	EABCDB2961.SCM A06321.PCB	1 97-02-18
	KU	1 97-04-11
DAT.	93-04-01	A3L









\* NOT MOUNTED

FIRST USED IN: PT5210  
PCB REF.: 4008 117 0629

		DUAL ANALOG BB	4008 109 8293	1 96-10-03
CHECK:	NAME: PF/SMA		4 SH SH 130 - 3	1 96-10-10
				2 96-11-15
				2 97-01-22
CDAB82932.SCM	KU			DAT. 96-09-15 A3L