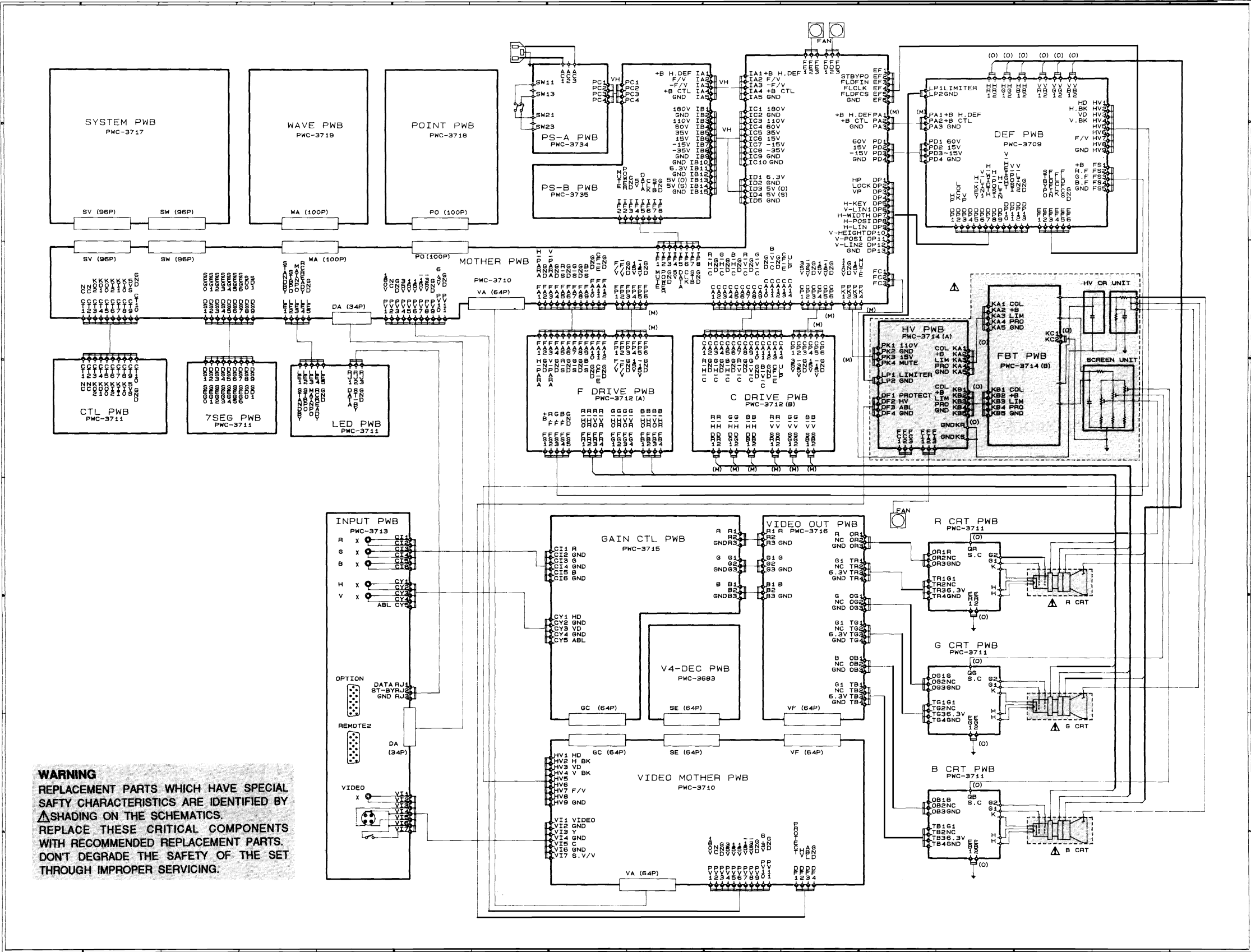


# Schematic Diagram

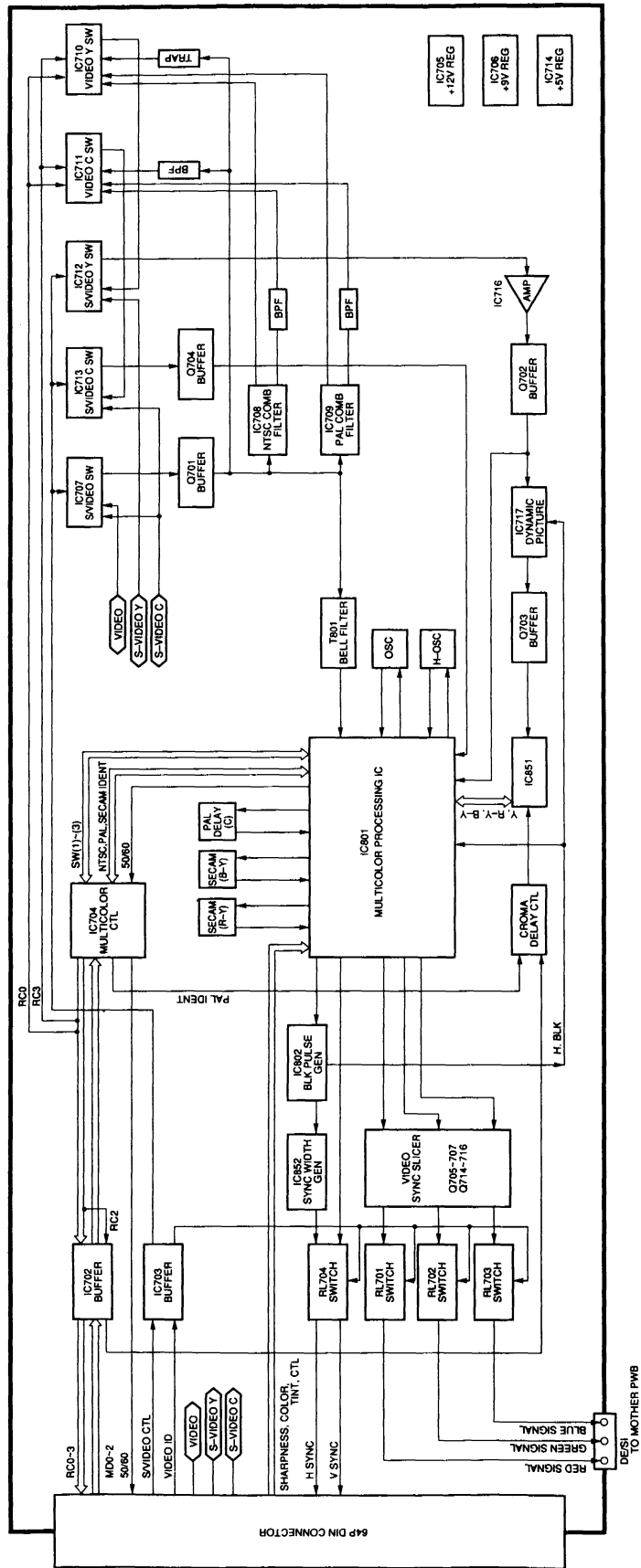
## CONTENTS

Connection Diagram .....	6-2
Block Diagram .....	6-4
Schematic Diagram .....	6-14

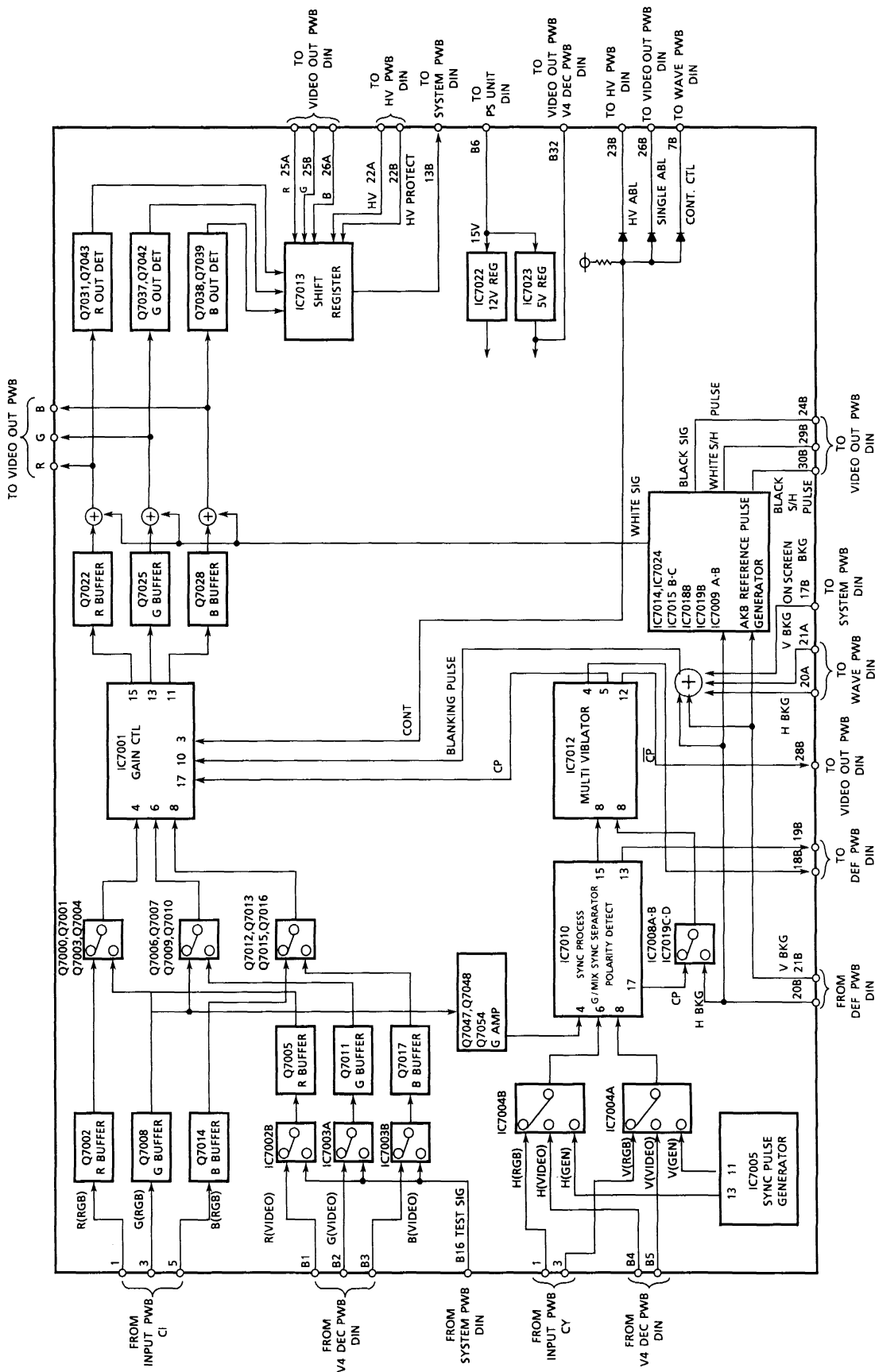


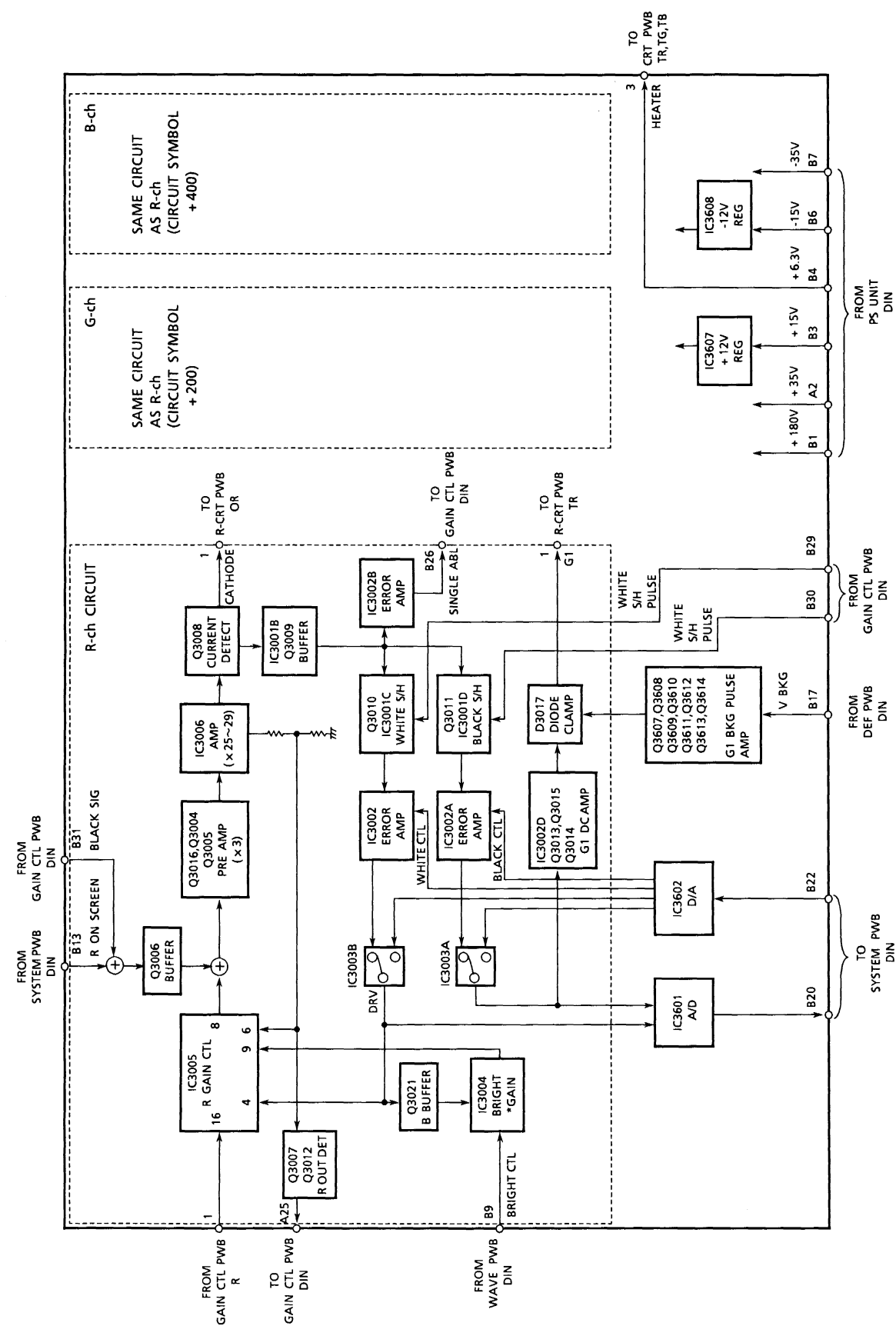
# BLOCK DIAGRAM

V4-DEC PWB

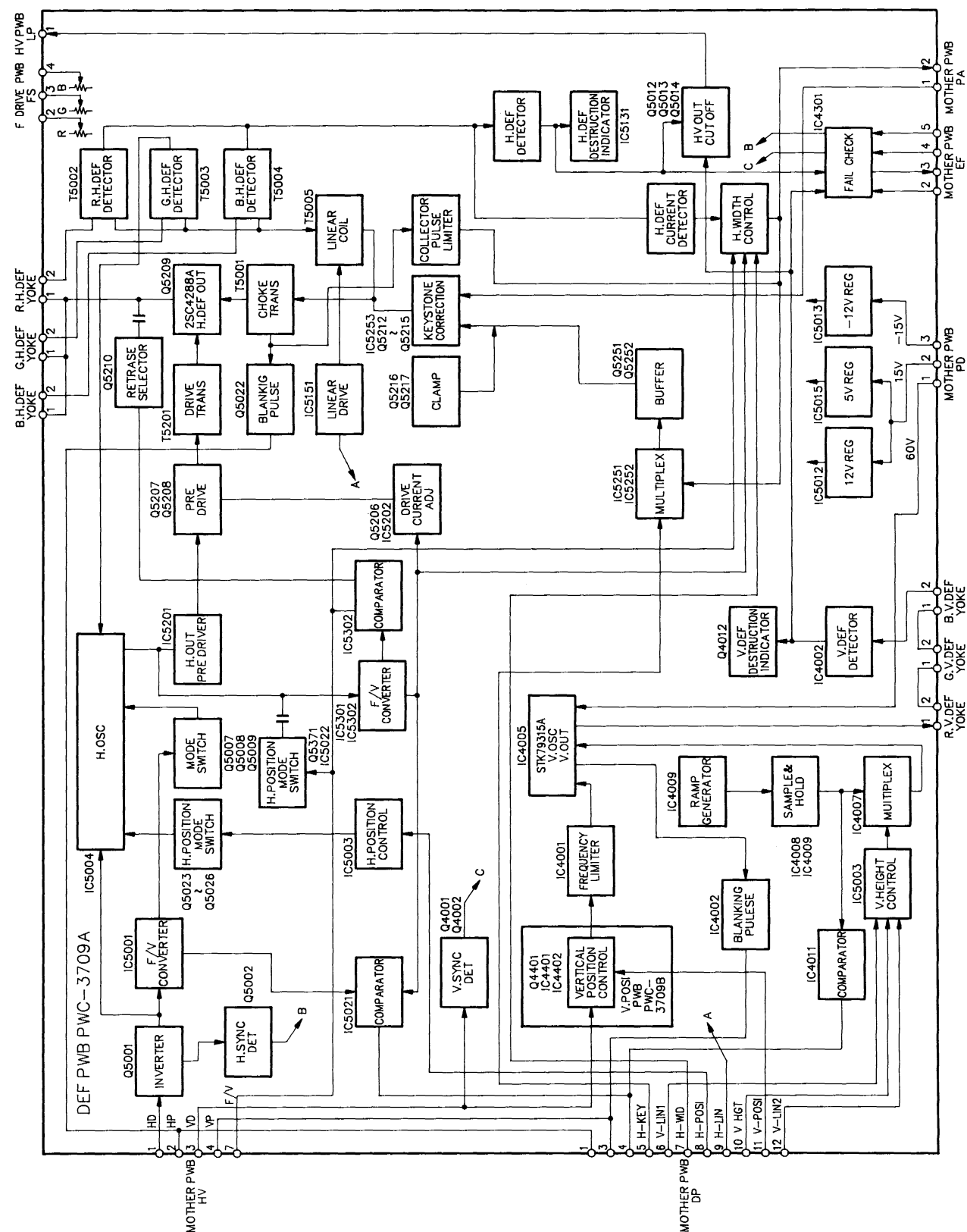


GAIN CTL PWB





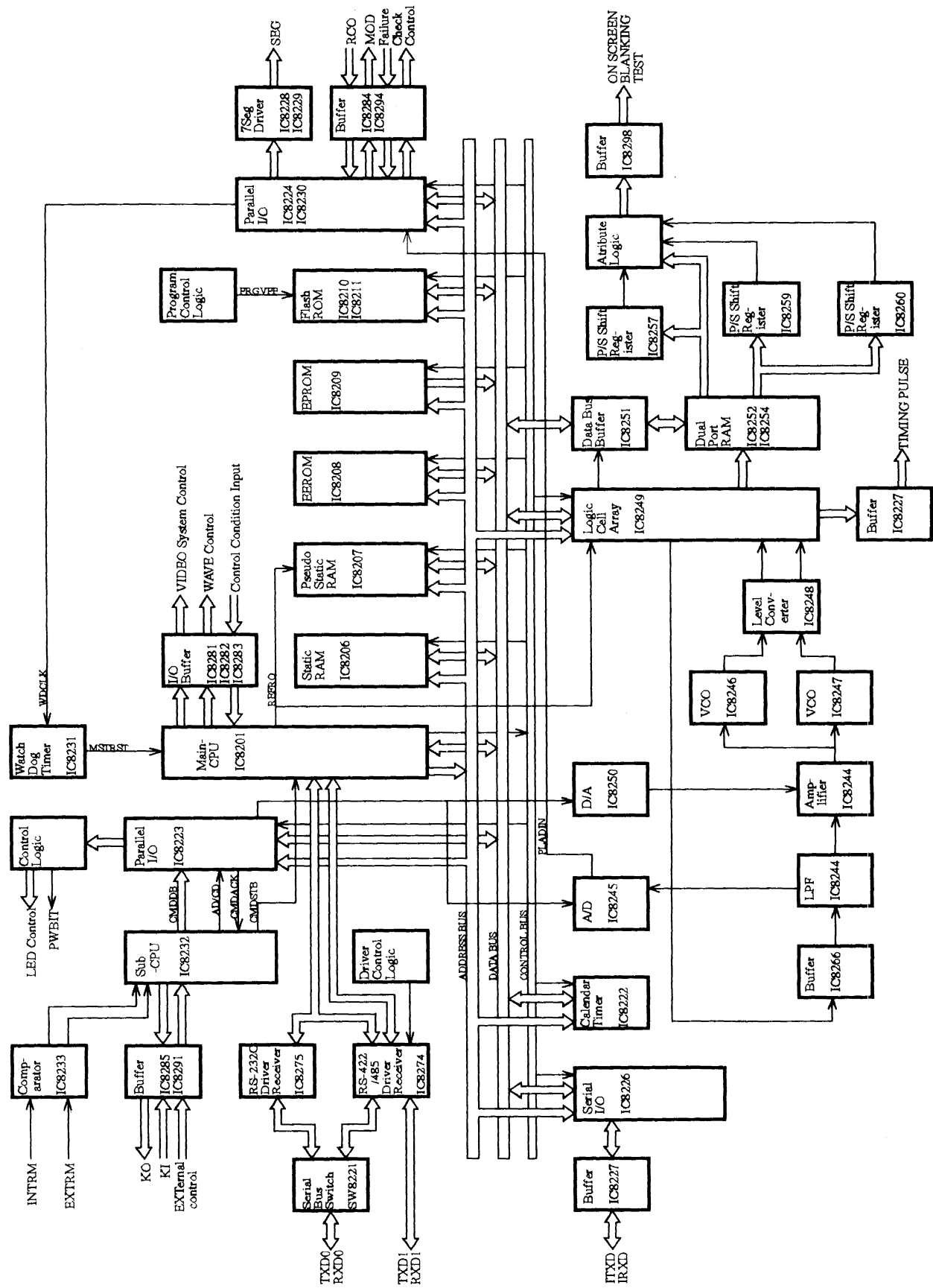
**DEF PWB**



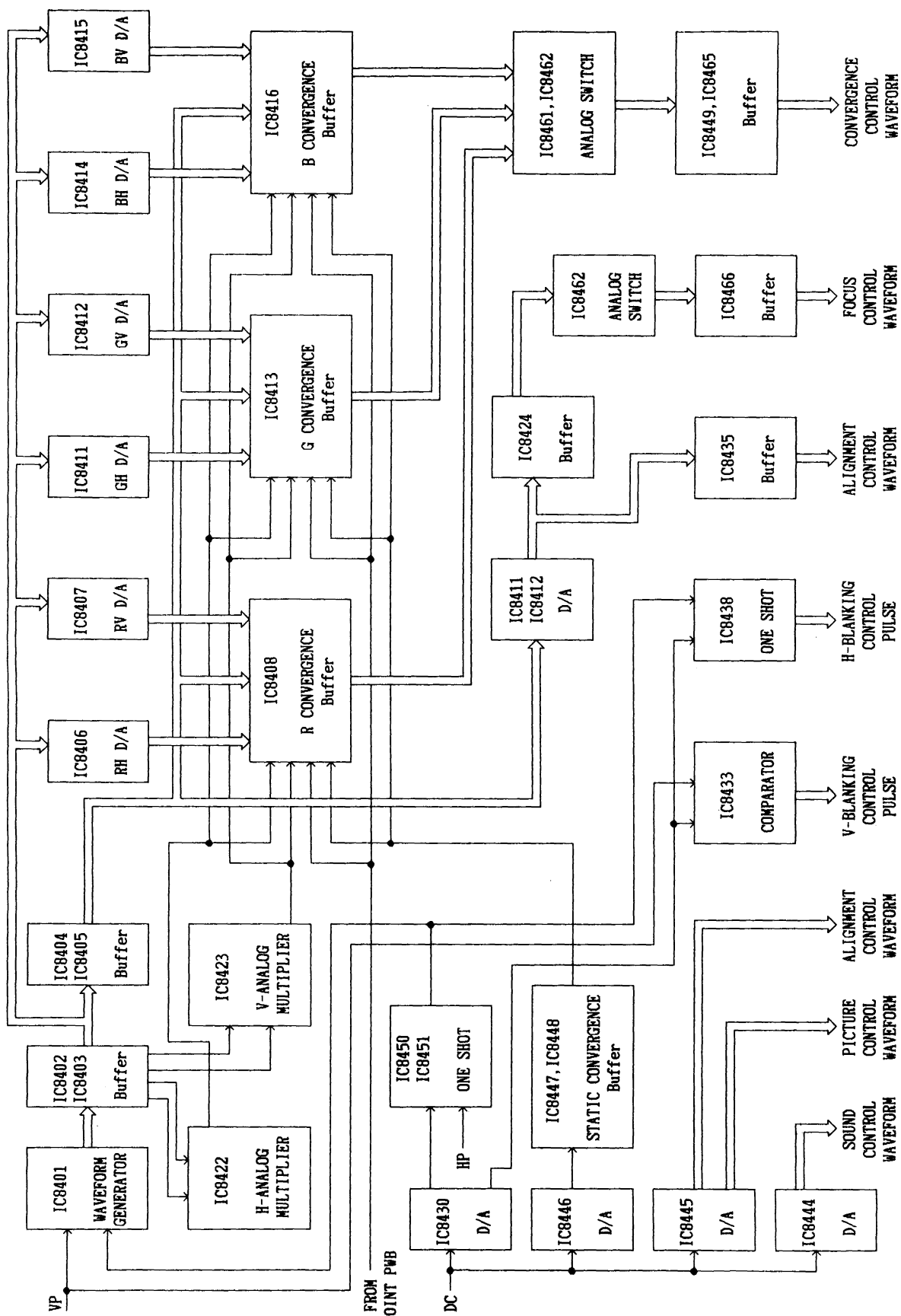


BLOCK DIAGRAM

SYSTEM PWB



WAVE PWB





## HV PWB

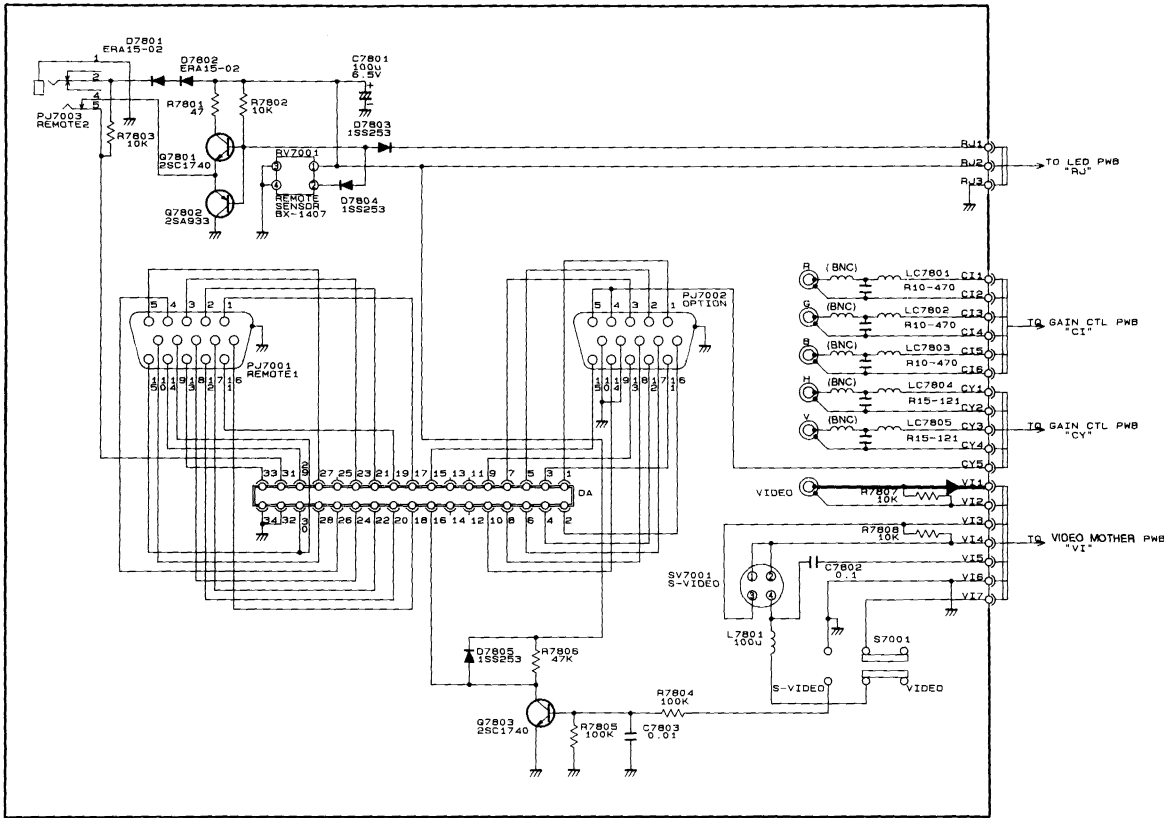


The block diagram illustrates the power supply system for the PC. It shows the AC inlet, a fuse (F6501), and two switches (SW1 and SW2) connected to the power lines. The power is then processed by a NOISE FILTER, a RUSH CURRENT PROTECTOR, a RECTIFIER (REC), and a SWITCHING MODE (SM) converter, which finally outputs power to the PC. The diagram uses a three-wire system (1, 3, 4) to represent the power lines.

[illegible]

INPUT PWB (PWC-3713)

- SCHEMATIC DIAGRAMS
- PWB (SOLDER SIDE)



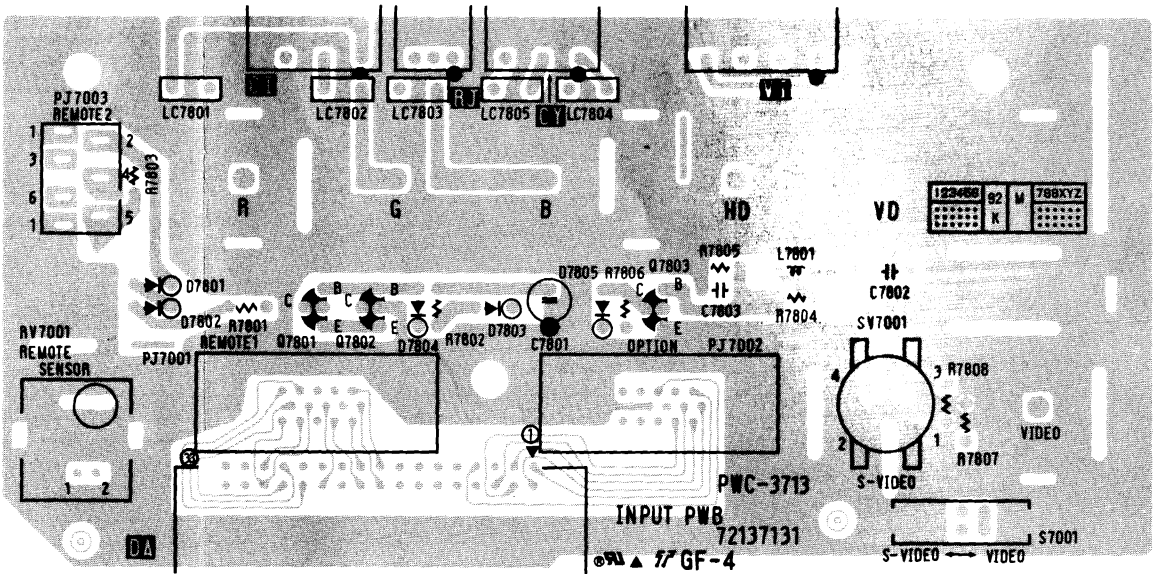
DA (TO MOTHER)			
1	RXD1IN+	18	TXD0OUT-
2	RXD1IN-	19	N.C.
3	N.C.	20	N.C.
4	CTS1IN-	21	RXD0IN+
5	TXD1OUT+	22	RXD0IN-
6	TXD1OUT-	23	N.C.
7	N.C.	24	N.C.
8	RTS1OUT-	25	N.C.
9	STBPD	26	EXTIS
10	EXTPRC	27	EXTPWR
11	N.C.	28	EXTEN
12	N.C.	29	EXTPM
13	N.C.	30	GND
14	N.C.	31	INTRM
15	GND	32	GND
16	SMODE	33	GND
17	TXD0OUT+	34	GND

NOTES

1. RESISTOR VALUES ARE IN  $\Omega$  (OHM) K=1,000 $\Omega$  M=1,000,000 $\Omega$
2. ALL RESISTORS ARE 1/6W, 1/8W EXCEPT WHERE OTHERWISE INDICATED.
3. CAPACITOR VALUES ARE IN  $\mu$ F UNLESS OTHERWISE INDICATED. P=PF
4. ALL CAPACITORS ARE 50VOLTS EXCEPT WHERE OTHERWISE INDICATED.
5. VOLTAGES AND WAVEFORMS MEASURED UNDER FOLLOWING CONDITIONS.  
INPUT SIGNAL IS STANDARD COLOR BAR CONTRAST CONTROL IS 75% AND CONTROL EXCEPT CONTRAST ARE CENTER.
6. (H)..... HORIZONTAL RATE. (V)..... VERTICAL RATE.

WARNING

REPLACEMENT PARTS WHICH HAVE SPECIALSAFTY CHARACTERISTICS ARE IDENTIFIED BY SHADING ON THE SCHEMATICS.  
REPLACE THESE CRITICAL COMPONENTS WITH RECOMMENDED REPLACEMENT PARTS.  
DON'T DEGRADE THE SAFETY OF THE SET THROUGH IMPROPER SERVICING.

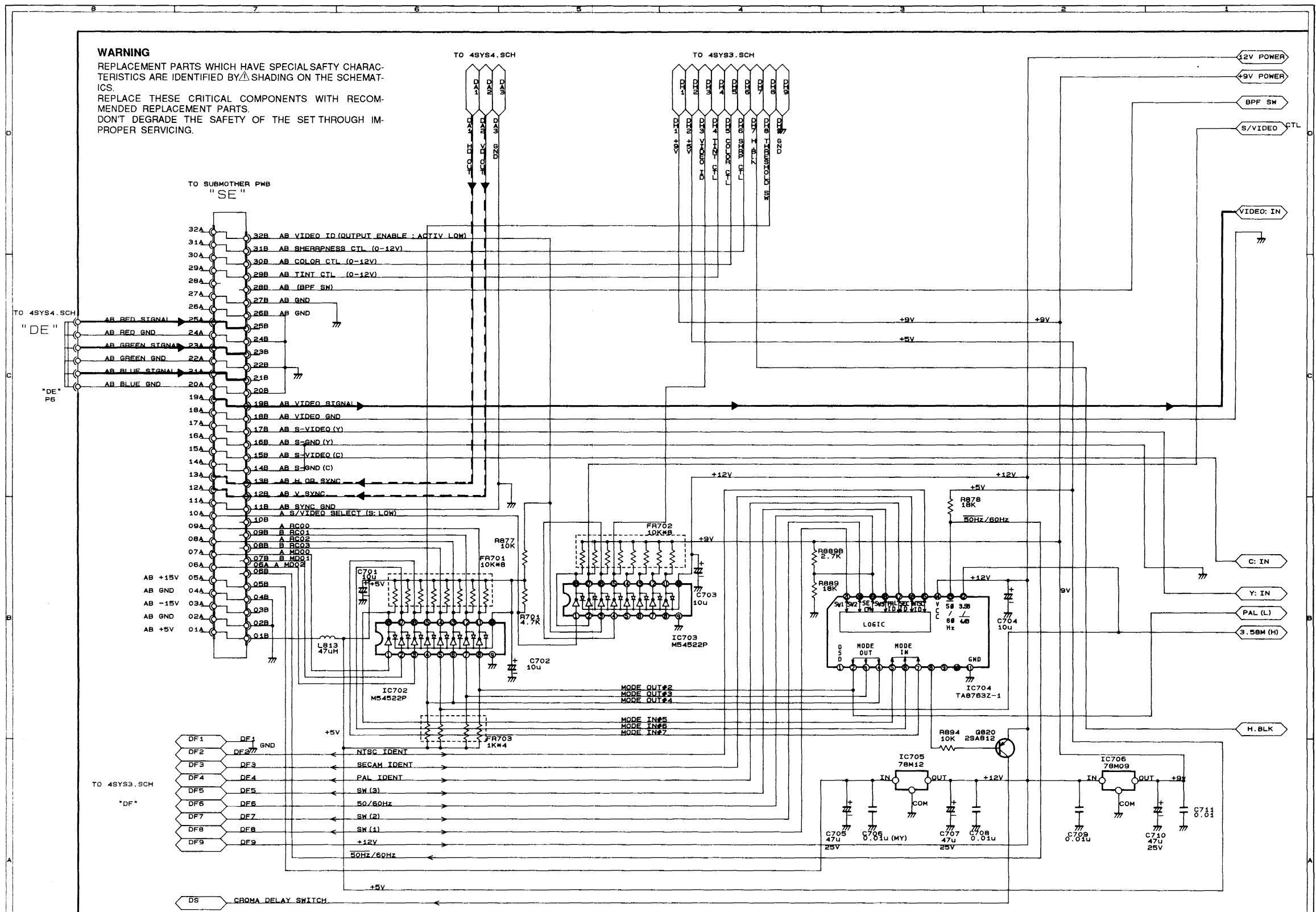


INPUT PWB  
PWC-3713

- SCHEMATIC DIAGRAMS
- WAVEFORM
- VOLTAGE
- PWB (SOLDER SIDE)

**WARNING**

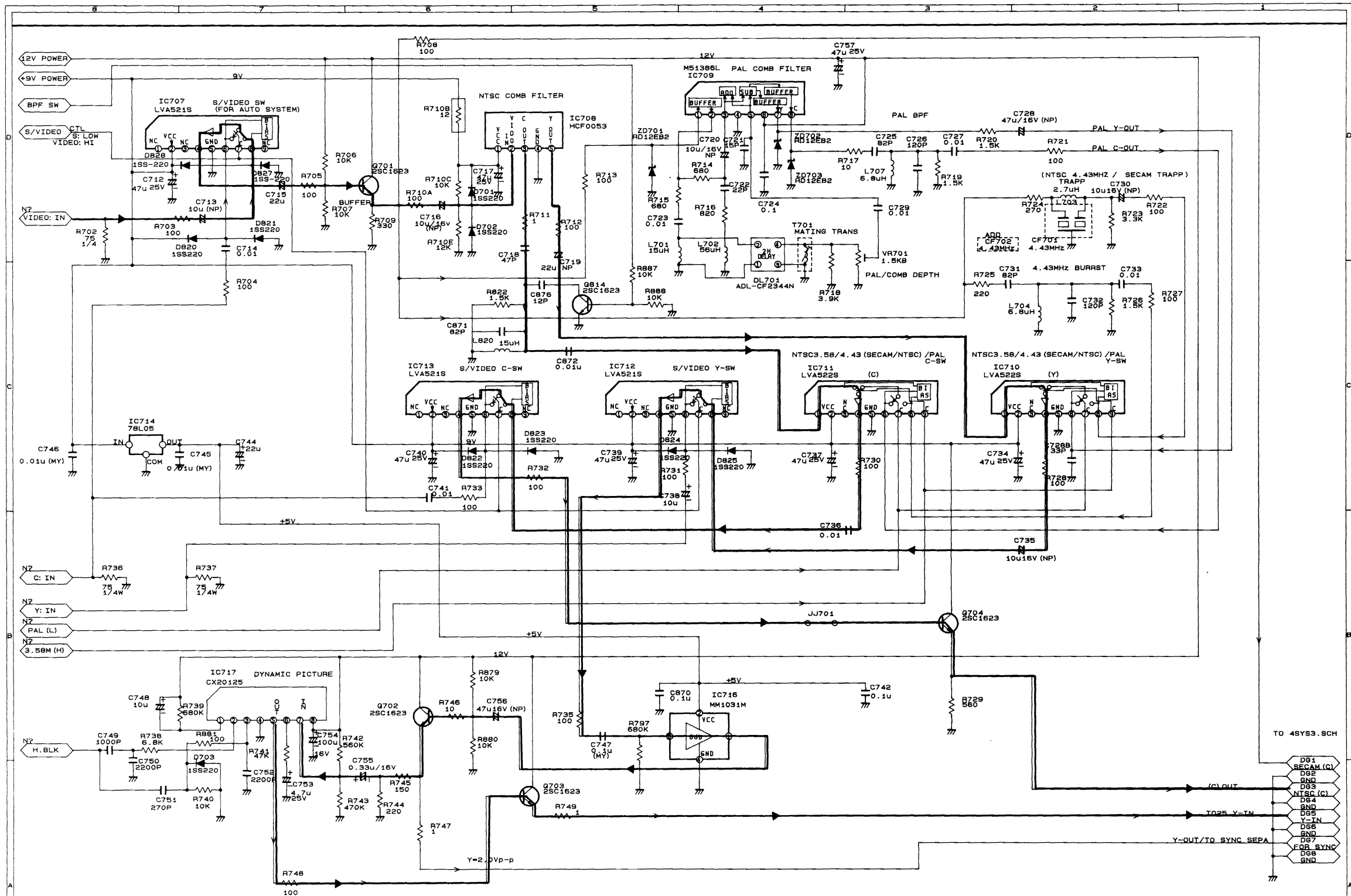
REPLACEMENT PARTS WHICH HAVE SPECIAL SAFETY CHARACTERISTICS ARE IDENTIFIED BY  $\Delta$  SHADING ON THE SCHEMATICS. REPLACE THESE CRITICAL COMPONENTS WITH RECOMMENDED REPLACEMENT PARTS. DON'T DEGRADE THE SAFETY OF THE SET THROUGH IMPROPER SERVICING.

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(V)..... VERTICAL RATE.

V4-DEC PWB (1/4)  
PWC-3683

V4-DEC PWB (PWC-3683)



NOTES

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WARNING

5. VOLTAGES AND WAVEFORMS MEASURED UNDER FOLLOWING CONDITIONS.  
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6. (H)..... HORIZONTAL RATE. (V)..... VERTICAL RATE.


WARNING

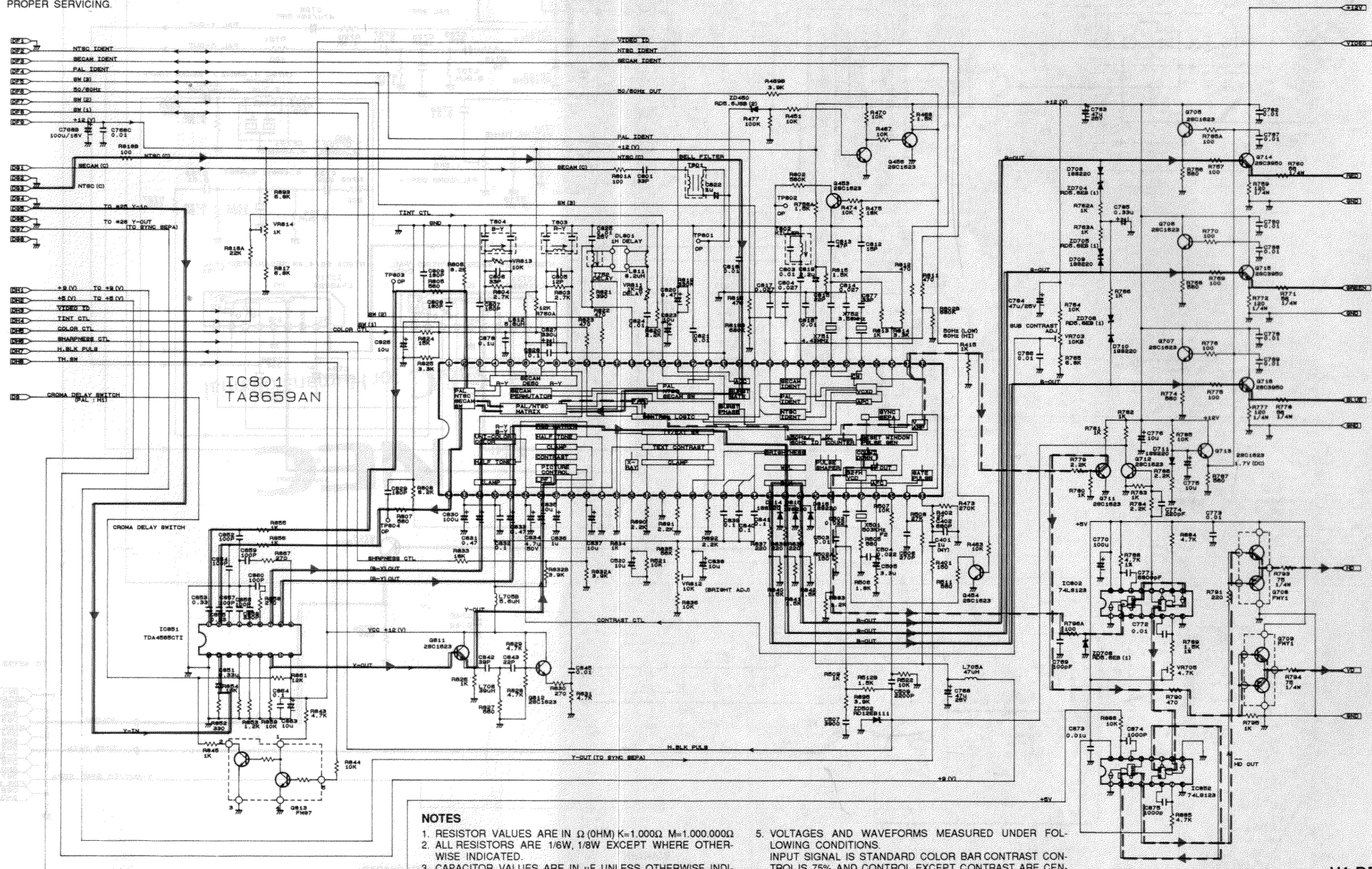
REPLACEMENT PARTS WHICH HAVE SPECIAL SAFETY CHARACTERISTICS ARE IDENTIFIED BY  $\Delta$  SHADING ON THE SCHEMATICS.  
REPLACE THESE CRITICAL COMPONENTS WITH RECOMMENDED REPLACEMENT PARTS.  
DON'T DEGRADE THE SAFETY OF THE SET THROUGH IMPROPER SERVICING.

V4-DEC PWB (2/4)  
PWC-3683



**WARNING**

REPLACEMENT PARTS WHICH HAVE SPECIAL SAFETY CHARACTERISTICS ARE IDENTIFIED BY  SHADING ON THE SCHEMATIC.  
REPLACE THESE CRITICAL COMPONENTS WITH RECOMMENDED REPLACEMENT PARTS.  
DON'T DEGRADE THE SAFETY OF THE SET THROUGH IMPROPER SERVICING.

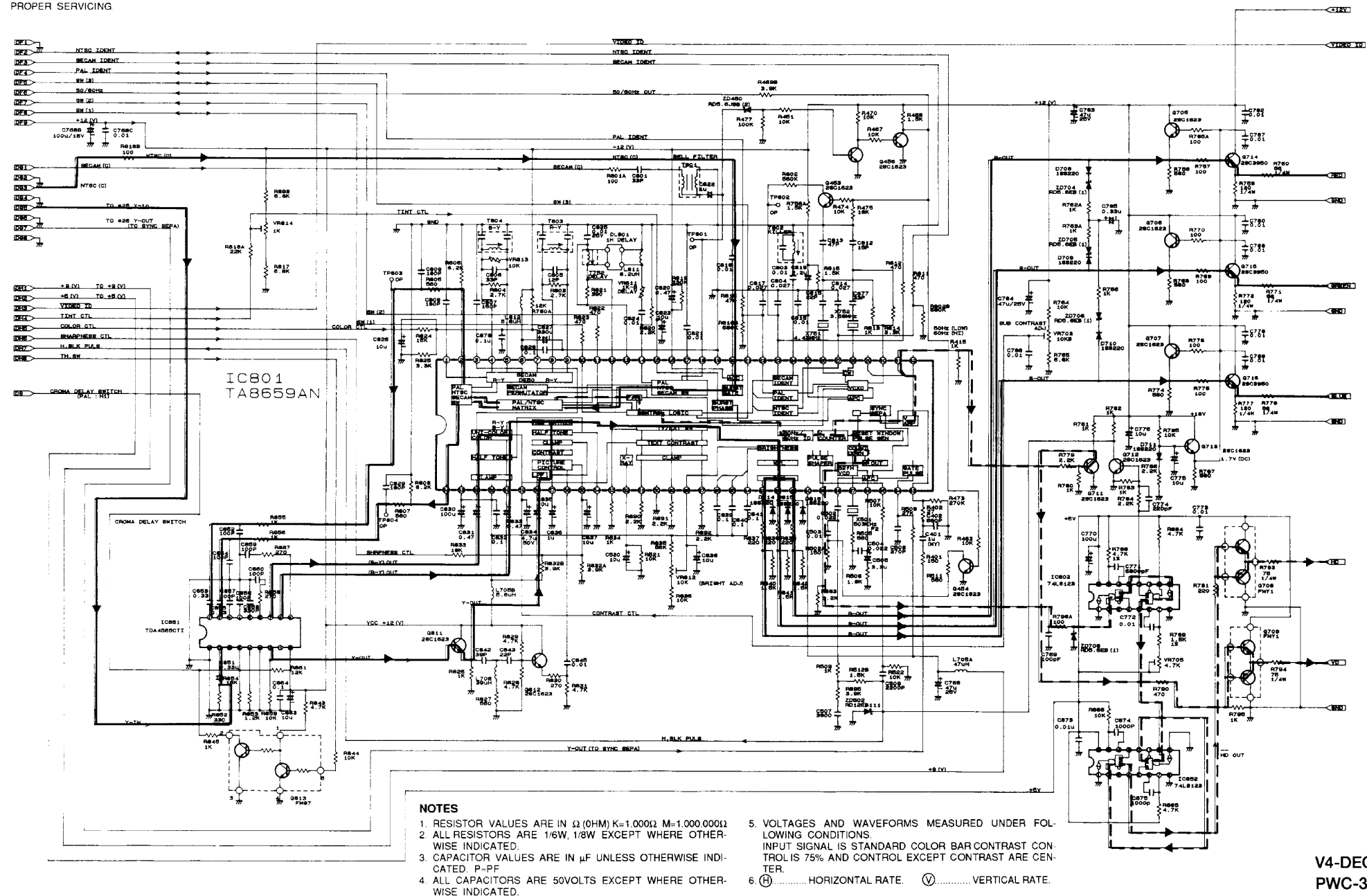


**NOTES**

1. RESISTOR VALUES ARE IN  $\Omega$  (OHM) K=1,000 $\Omega$  M=1,000,000 $\Omega$
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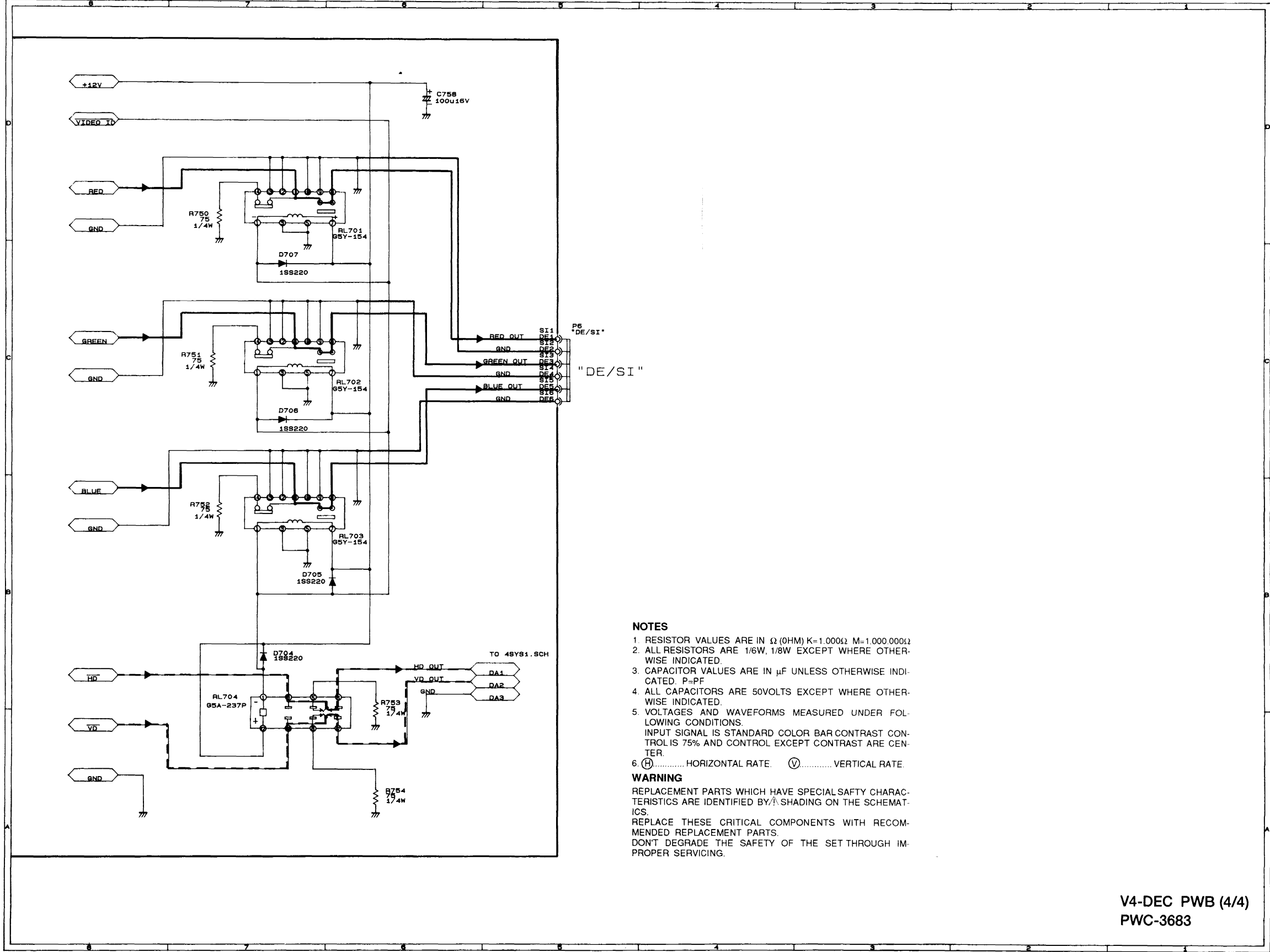
**WARNING**

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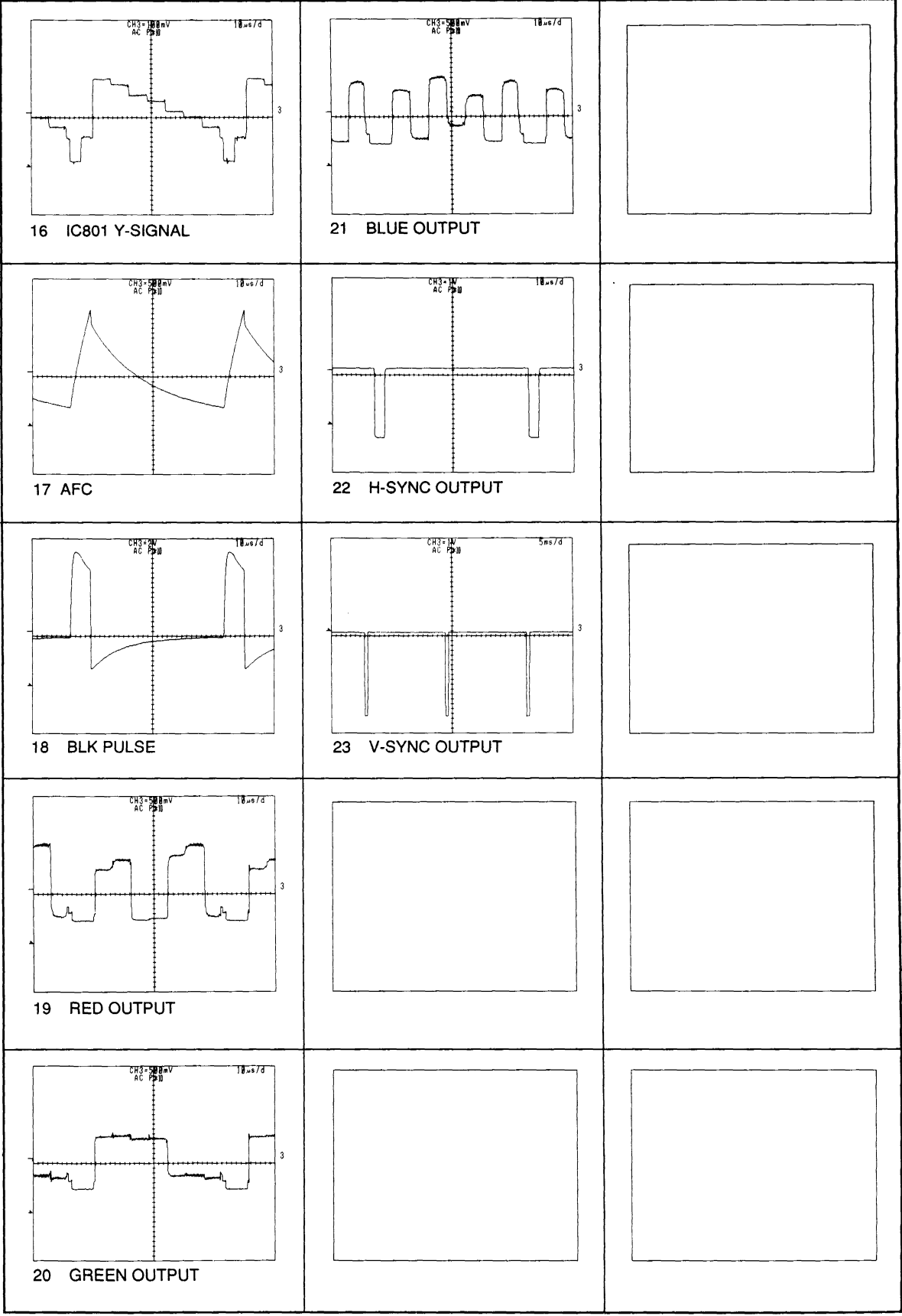
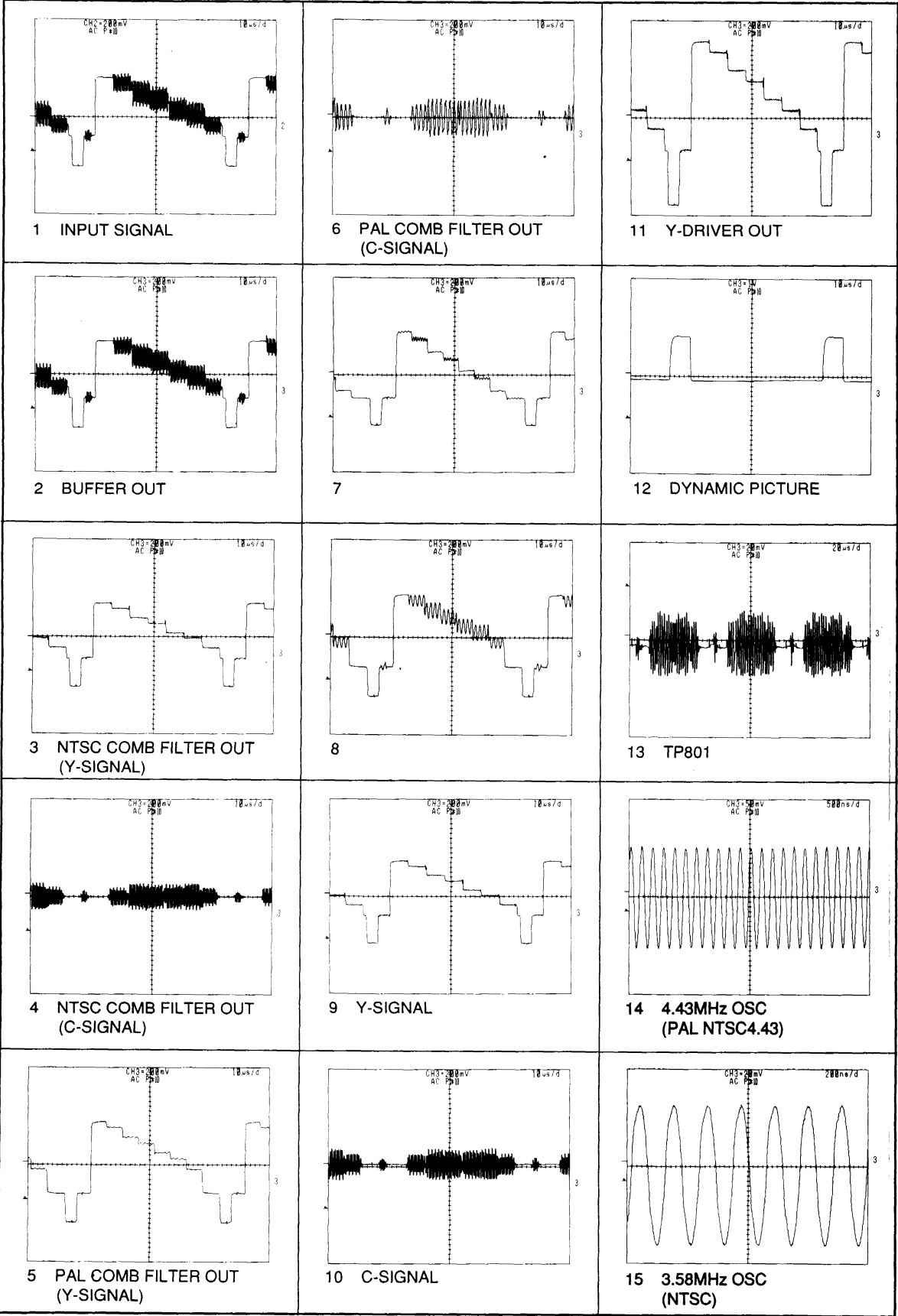


V4-DEC PWB (PWC-3683)



V4-DEC PWB (4/4)  
PWC-3683

QUAD BOARD



V4-DEC PWB (PWC-3683)

QUAD BOARD

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
IC702 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18)	3.6 0 0 0.5 4.2 0.6 4.7 4.2 0 5 0.6 0.6 5 0.6 5.6 5 5 0.6	NTSC COLOR BAR (AUTO MODE)
IC703 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18)	2.7 0.6 0 3 0.6 0 0 0 0 12 9 9 9 5.6 0.8 3 3.2 0.6	NTSC COLOR BAR (AUTO MODE)
IC704 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10)	3.6 4.2 4.7 0.6 0.6 0 5 11.4 0.2 0	NTSC COLOR BAR (AUTO MODE)

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
(11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21)	0 4.2 0 12 10.9 5.4 5.4 2 6.1 0 0	NTSC COLOR BAR (AUTO MODE)
IC705 (IN) (GND) (OUT)	14.7 0 12	NTSC COLOR BAR (AUTO MODE)
IC706 (IN) (GND) (OUT)	12 0 9	NTSC COLOR BAR (AUTO MODE)
IC707 (1) (2) (3) (4) (5) (6) (7) (8) (9)	0 9 0 4 0 4.7 3.2 4.7 0	NTSC COLOR BAR (AUTO MODE)
IC708 (1) (2) (3) (4) (5)	8.7 4.9 5 0 5	NTSC COLOR BAR (AUTO MODE)
IC709 (1) (2) (3) (4) (5) (6) (7) (8)	5.1 5 4.1 0 1 12 6.5 6.5	NTSC COLOR BAR (AUTO MODE)

PIN CONDITION TABLE

VIDEO SWITCH FUNCTION (S/VIDEO SW)

IC NO.	PIN NO.	S-VIDEO	VIDEO	VOLTAGE
CONNECTOR "SE"	10A	L	H	H:5V/L:0V
IC703	PIN1	L	H	H:5V/L:0V
	PIN17	L	H	H:9V/L:0V
IC707	PIN7	L	H	H:3.1V L:0.6V
IC713	PIN7	L	H	
IC712	PIN7	L	H	

VIDEO SWITCH FUNCTION (NTSC3.58/NTSC4.43/PAL/SECAM)

IC NO.	PIN NO.	NTSC3.58	NTSC4.43	SECAM	PAL	VOLTAGE
IC710	PIN7	H	H	H	L	H:4.1 L:0.6V
	PIN9	H	L	L	L	
IC711	PIN7	H	H	H	L	
	PIN9	H	L	L	L	

VIDEO ID

POINT	PIN NO.	ENABLE	DISENABLE	VOLTAGE
CONNECTOR "SE"	32AB	L	H	H:5V/L:0V
IC703	PIN3	L	H	H:5V/L:0V
	PIN15	L	H	H:5V/L:0V
RL701	PIN1	L	H	H:12V/L:0V
RL702	PIN1	L	H	H:12V/L:0V
RL703	PIN1	L	H	H:12V/L:0V
RL704	PIN12	L	H	H:12V/L:0V

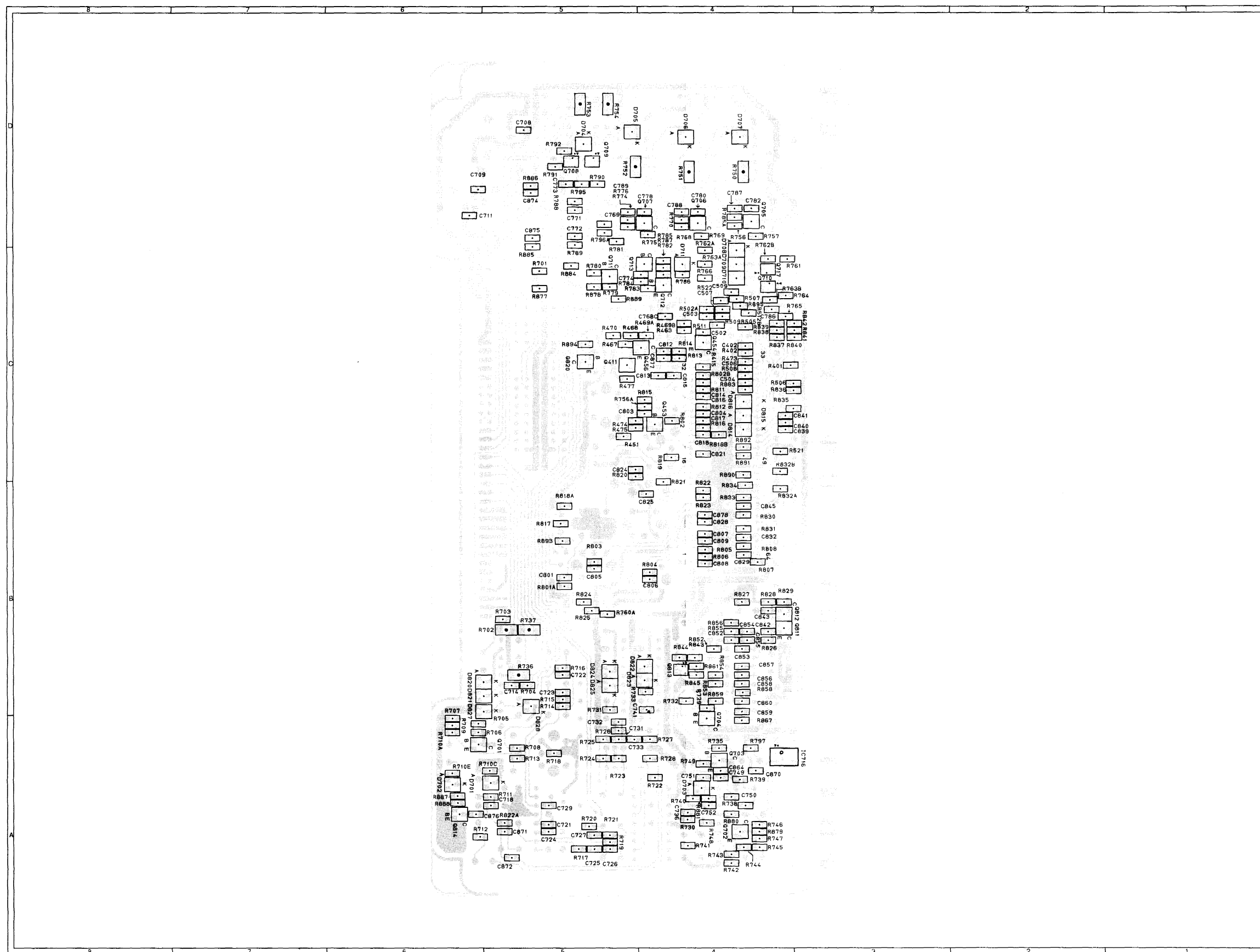
VIDEO DELAY SWITCH (NTSC3.58/NTSC4.43/PAL/SECAM)

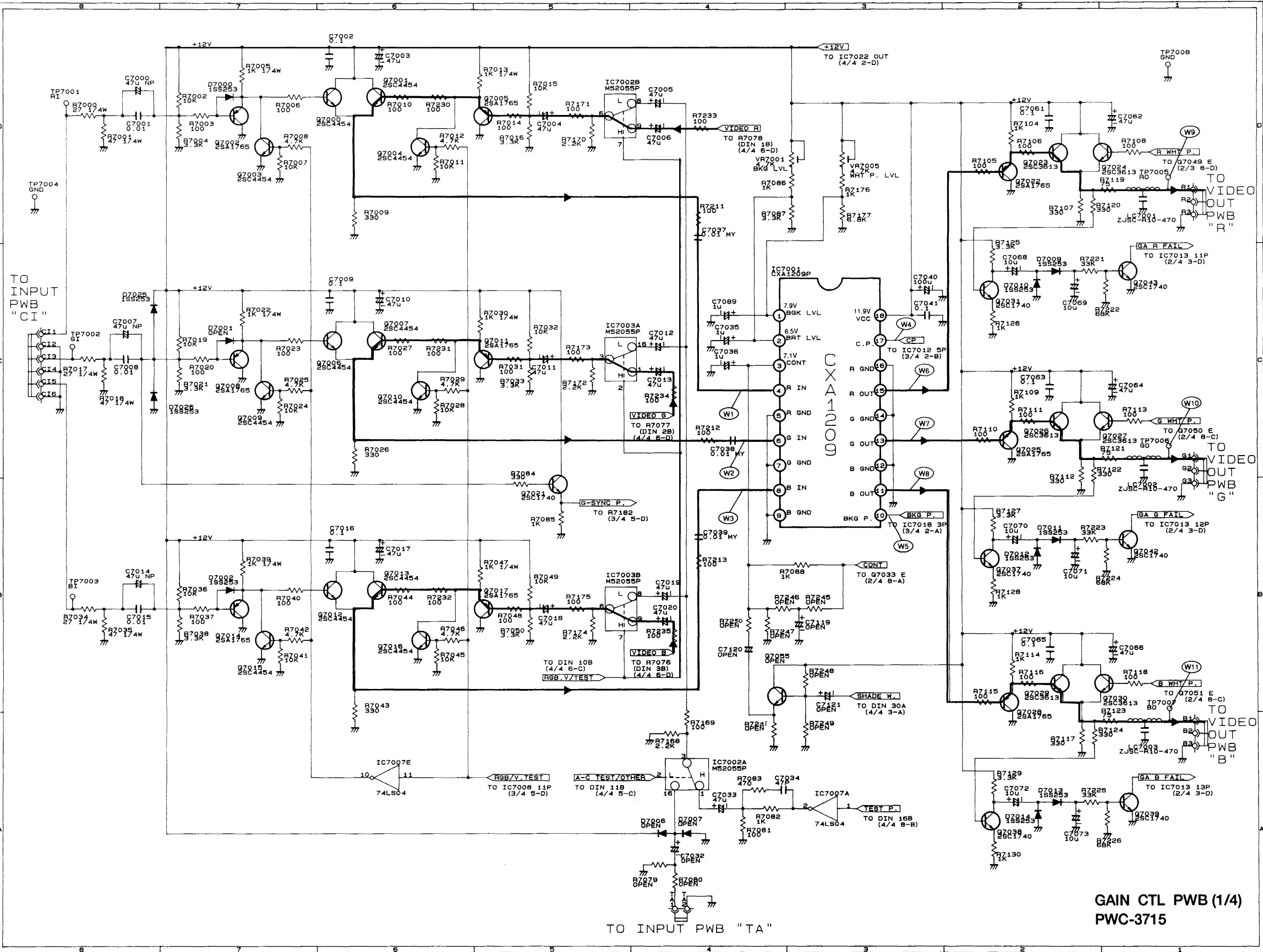
IC NO.	PIN NO.	NTSC3.58	NTSC4.43	SECAM	PAL	S-VIDEO
IC851	PIN15	6.1V	6.1V	0.7V	11.7V	0.7V

PIN CONDITION TABLE

ITEM	PIN NO.	FUNCTION	MANUAL MODE				AUTO MODE					CONTENTS	VOLTAGE
			NTSC3.58	NTSC4.43	SECAM	PAL	NTSC3.58	NTSC4.43	SECAM	PAL	B/W		
CONNECTOR "SE"	[MODE INPUT CODE]											3.58/4.33	H: 4.8V L: 0.6V
	07A	MD00	L	L	L	L	H	H	H	H	H		
	07B	MD01	L	L	H	H	FREE				H		
	06A	MD02	L	H	L	H					H		
	[RESULT CODE]												
	09A	RC00	L	L	L	H	L	L	L	H	L		
	09B	RC01	L	L	H	L	L	L	H	L	L		
	08A	RC02	H	H	L	L	H	H	L	L	L		
	08B	RC03	L	H	H	H	L	H	H	H	H		
06B	50/60Hz	H	H	L	L	H	H	L	L	-			
[IC702]	[IC702]											H: 5.5V L: 0.6V	
	18PIN	MD00	H	H	H	H	L	L	L	L	L		
	17PIN	MD01	H	H	L	L	FREE				L		
	16PIN	MD02	H	L	L	H					L		
	11PIN	RC00	H	H	H	L	H	H	H	L	H		
	12PIN	RC01	H	H	L	H	H	H	L	H	H		
	13PIN	RC02	L	L	H	H	L	L	H	H	H		
	14PIN	RC03	L	H	H	H	L	H	H	H	H		
	15PIN	THRES. SW	H	H	L	L	H	H	L	L	L		
[IC704]	[IC704]											3.58/4.43	H: 4.6V L: 0V  H: 5.6V M: 2V L: 0V  H: 9.0V L: 5.5V H: 6.1V L: 0V H: 11.3V/L: 0.2V
	5PIN	MD00	H	H	H	H	L	L	H	L	L		
	6PIN	MD01	H	H	L	L	FREE				L		
	7PIN	MD02	H	L	L	H					L		
	2PIN	RC00	H	H	H	L	H	H	H	L	H		
	3PIN	RC01	H	H	L	H	H	H	L	H	H		
	4PIN	RC02	L	L	H	H	L	L	H	H	H		
	12PIN	RC03	H	L	L	L	H	L	L	L	L		
	13PIN	50/60 OUT	H	H	L	L	H	H	L	L	-		
	21PIN	SW1	L	L	H	H	L	L	H	H	L		
	20PIN	SW2	L	H	L	H	L	H	M	H	M/L		
	18PIN	SW3	H	H	H	H	M	M	M	M	L		
	17PIN	PAL IDENT	L	L	L	H	L	L	L	H	L		
	16PIN	SECAM IDENT	L	L	H	L	L	L	H	L	L		
	15PIN	NTSC IDENT	H	H	L	H	H	H	L	H	L		
	19PIN	50-60 IN	L	L	H	H	H	H	L	L	-		
	8PIN	C-DELAY SW	H	H	H	L	H	H	H	L	H		

## V4-DEC PWB (PWC-3683)



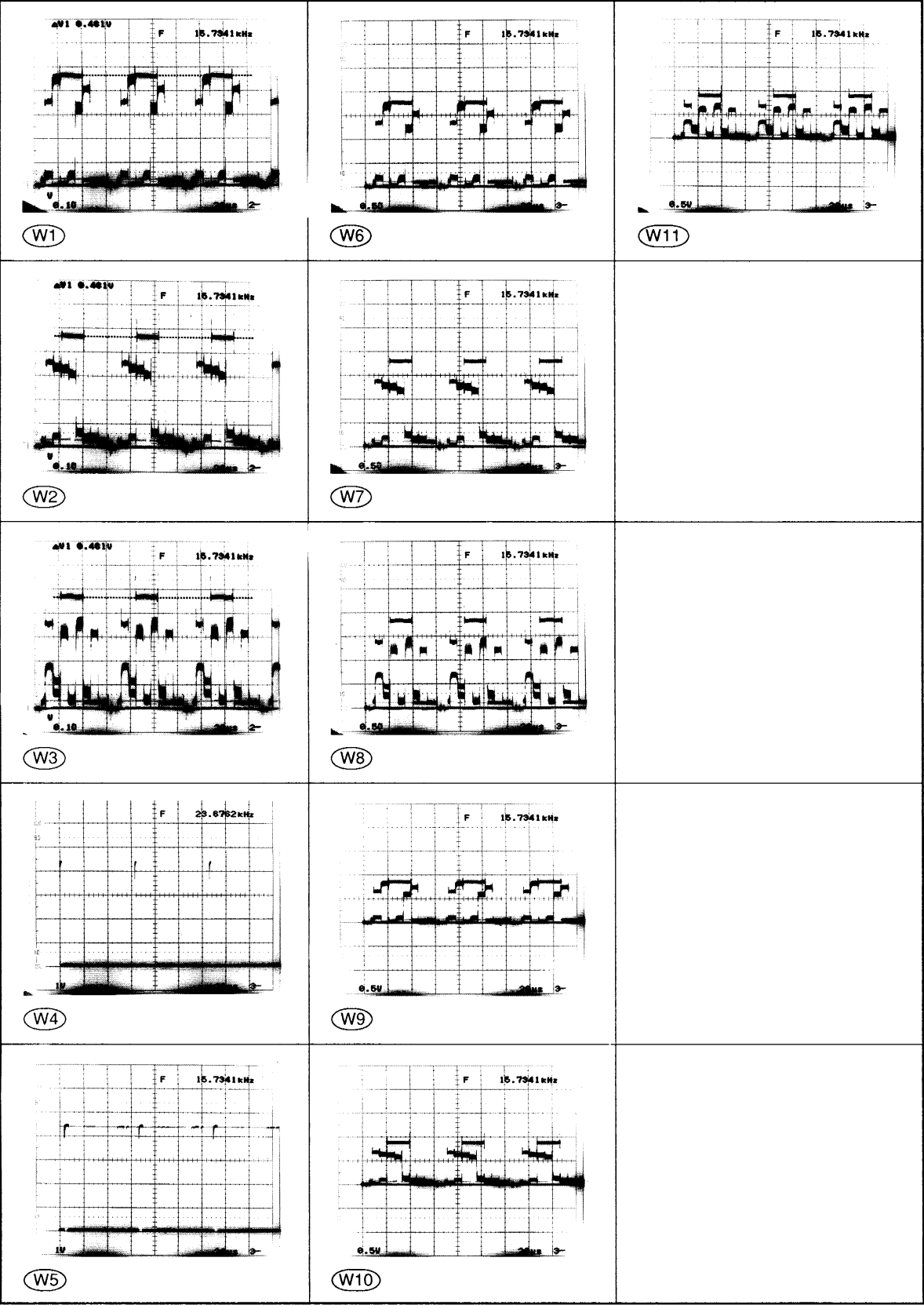


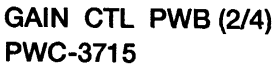
- NOTES**
1. RESISTOR VALUES ARE IN  $\Omega$  (OHM) K=1.000 $\Omega$  M=1.000.000 $\Omega$
  2. ALL RESISTORS ARE 1/6W, 1/8W EXCEPT WHERE OTHERWISE INDICATED.
  3. CAPACITOR VALUES ARE IN  $\mu$ F UNLESS OTHERWISE INDICATED. P=PF
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  5. VOLTAGES AND WAVEFORMS MEASURED UNDER FOLLOWING CONDITIONS. INPUT SIGNAL IS STANDARD COLOR BAR CONTRAST CONTROL IS 75% AND CONTROL EXCEPT CONTRAST ARE CENTER.
  6.  $\textcircled{H}$ ..... HORIZONTAL RATE.  $\textcircled{V}$ ..... VERTICAL RATE.

**WARNING**  
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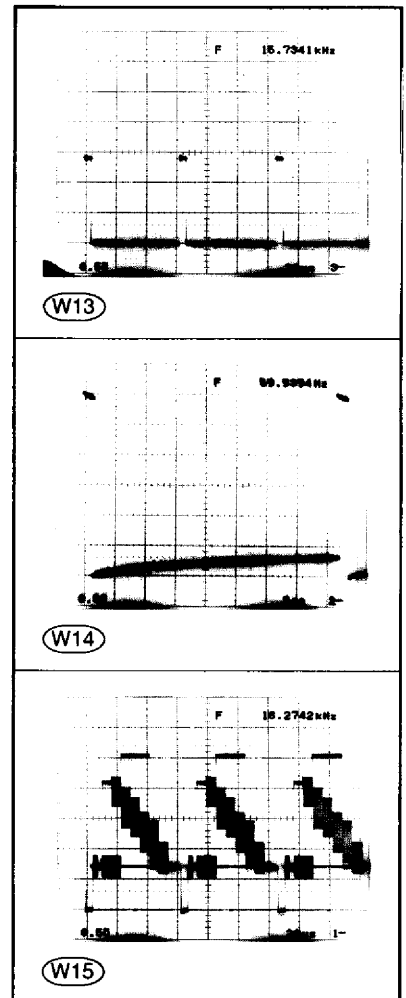
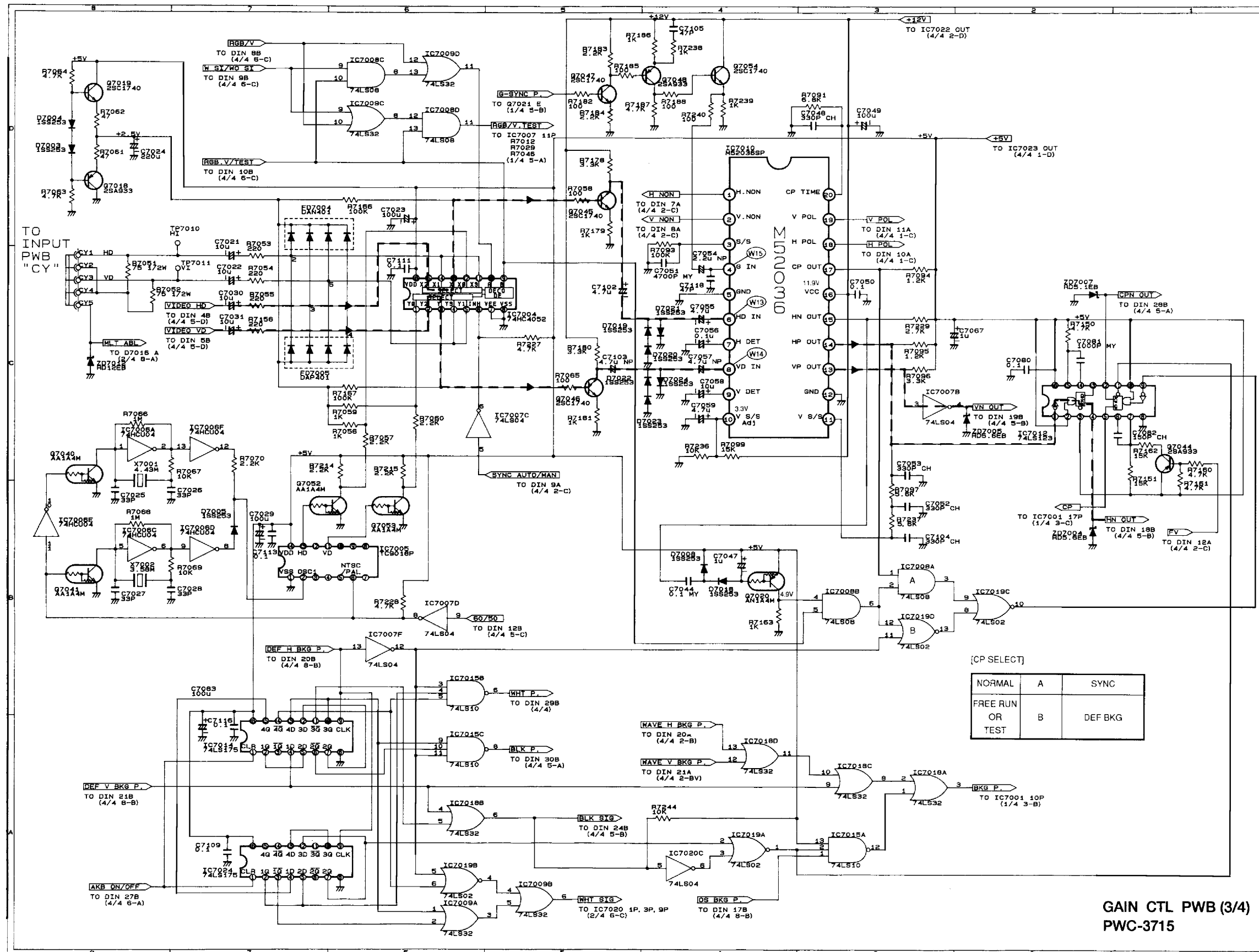
GAIN CTL PWB (1/4)  
PWC-3715

GAIN CTL PWB (PWC-3715)










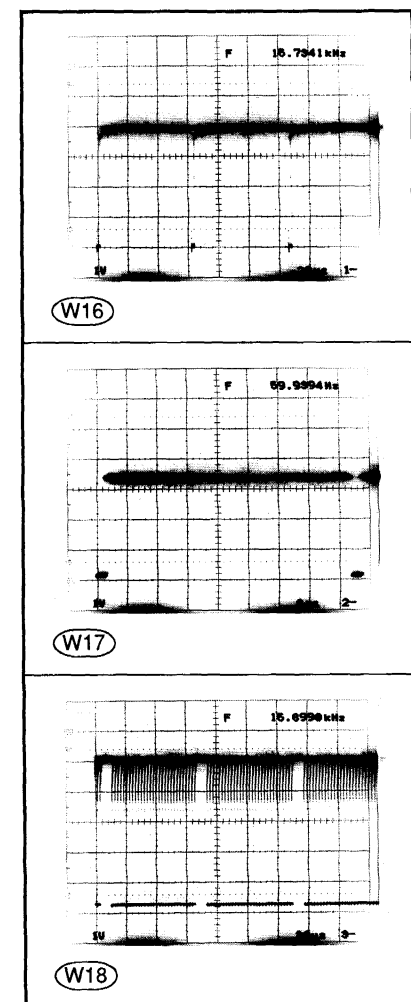
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1. RESISTOR VALUES ARE IN  $\Omega$  (OHM)  $K=1.000\Omega$   
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 RATE

### WARNING


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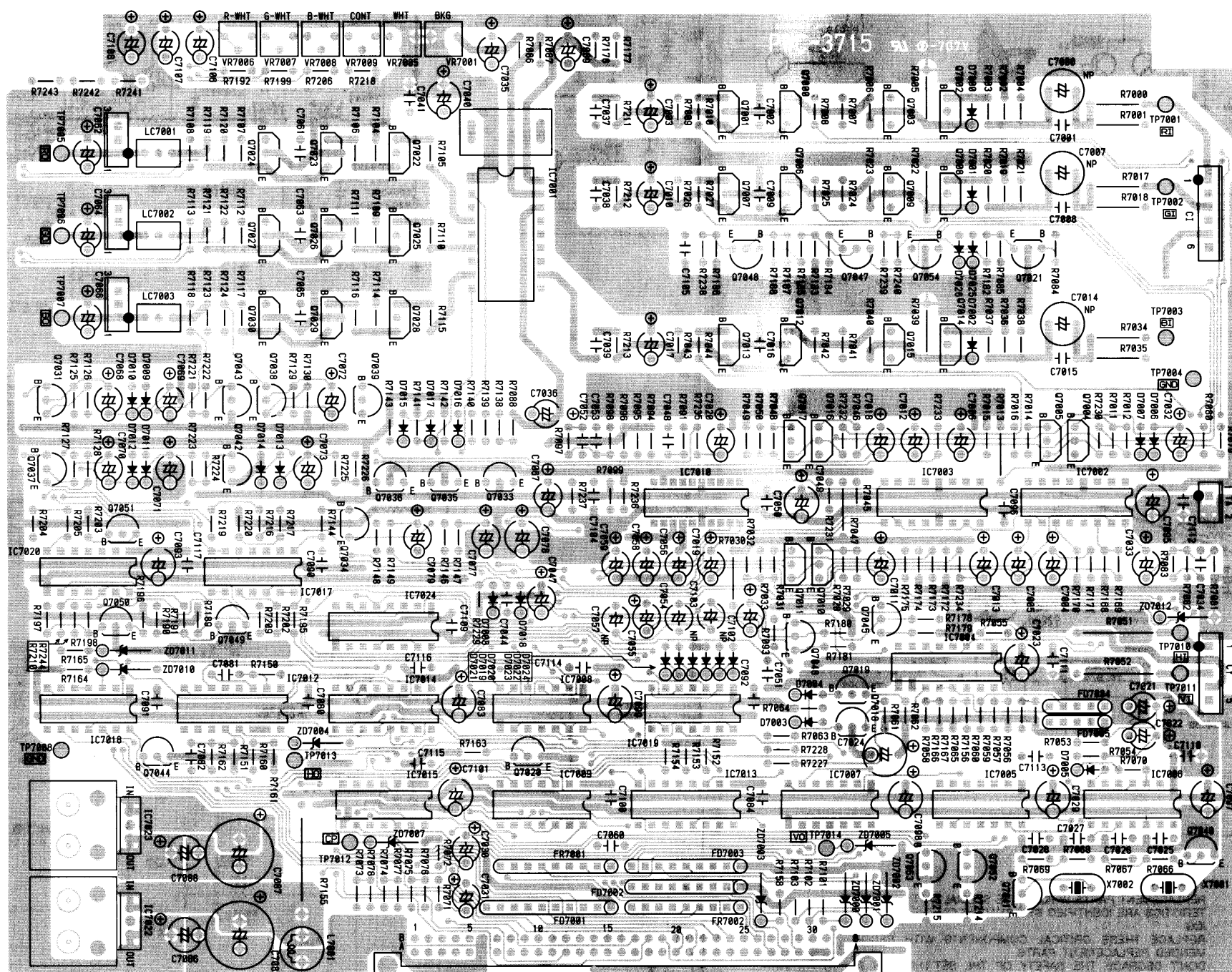
## GAIN CTL PWB (PWC-3715)



- ## NOTES
1. RESISTOR VALUES ARE IN  $\Omega$  (OHM)  $K=1.000\Omega$   
 $M=1.000.000\Omega$
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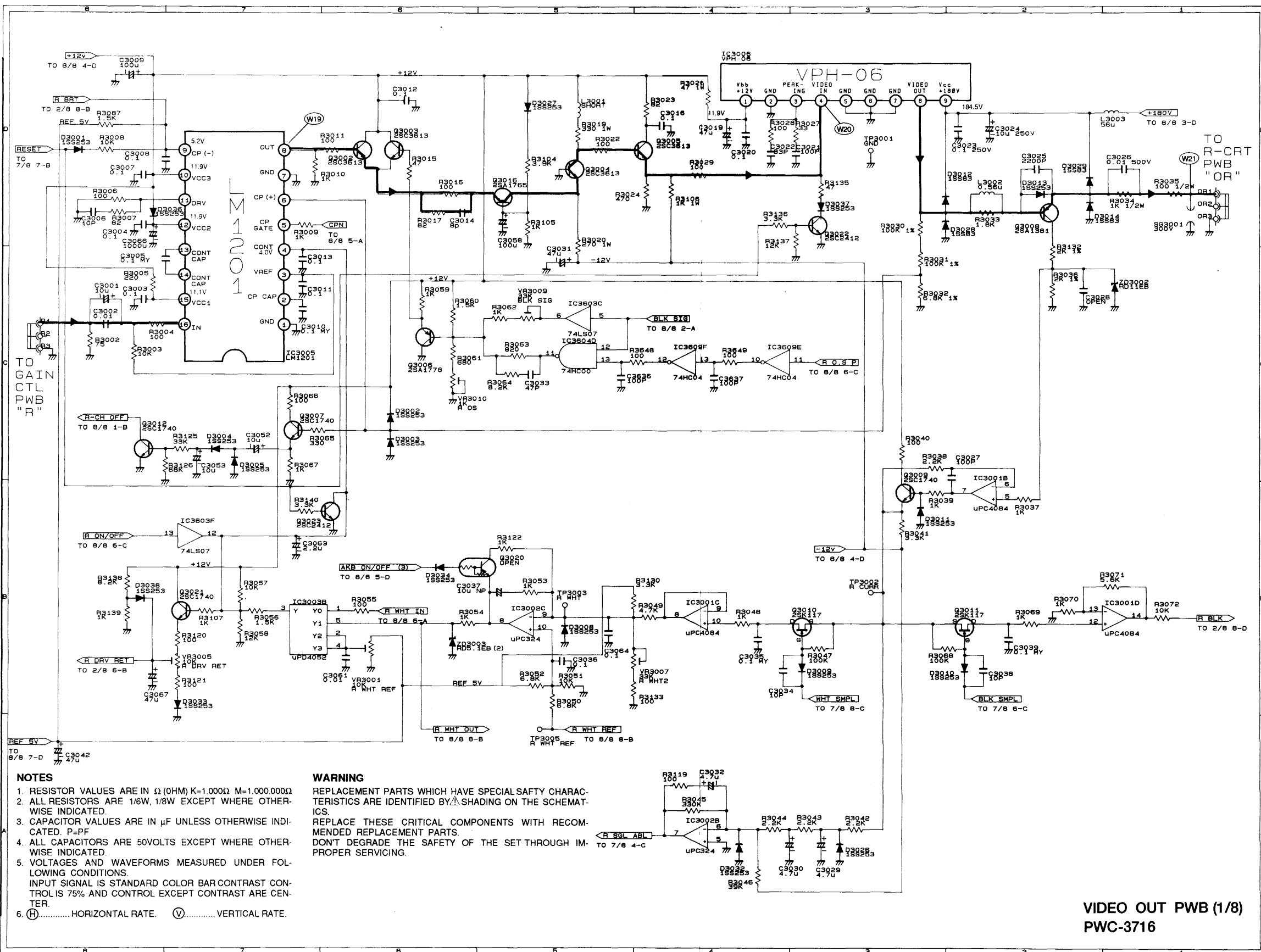


# SCHEMATIC DIAGRAMS

## VIDEO OUT PWB

- SCHEMATIC DIAGRAMS
- VOLTAGE

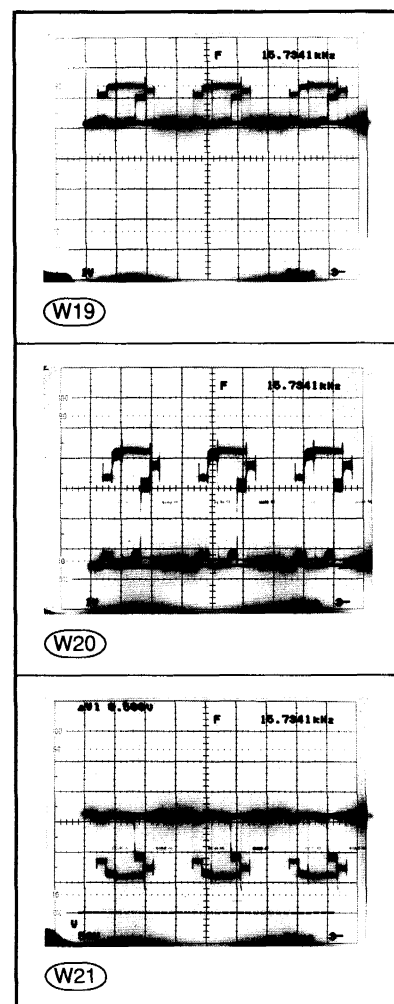
- WAVEFORM
- PWB (SOLDER SIDE)



- NOTES**
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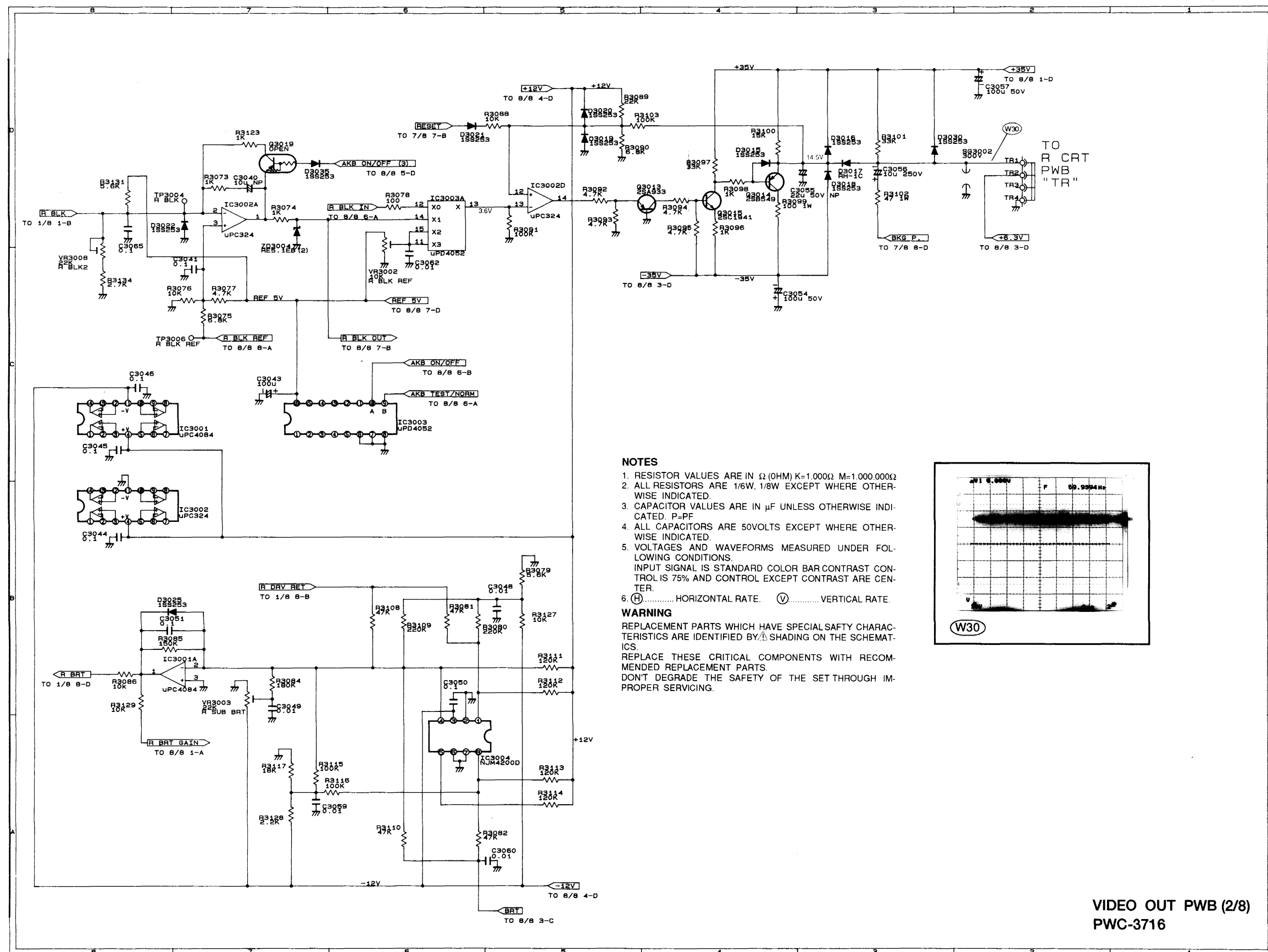
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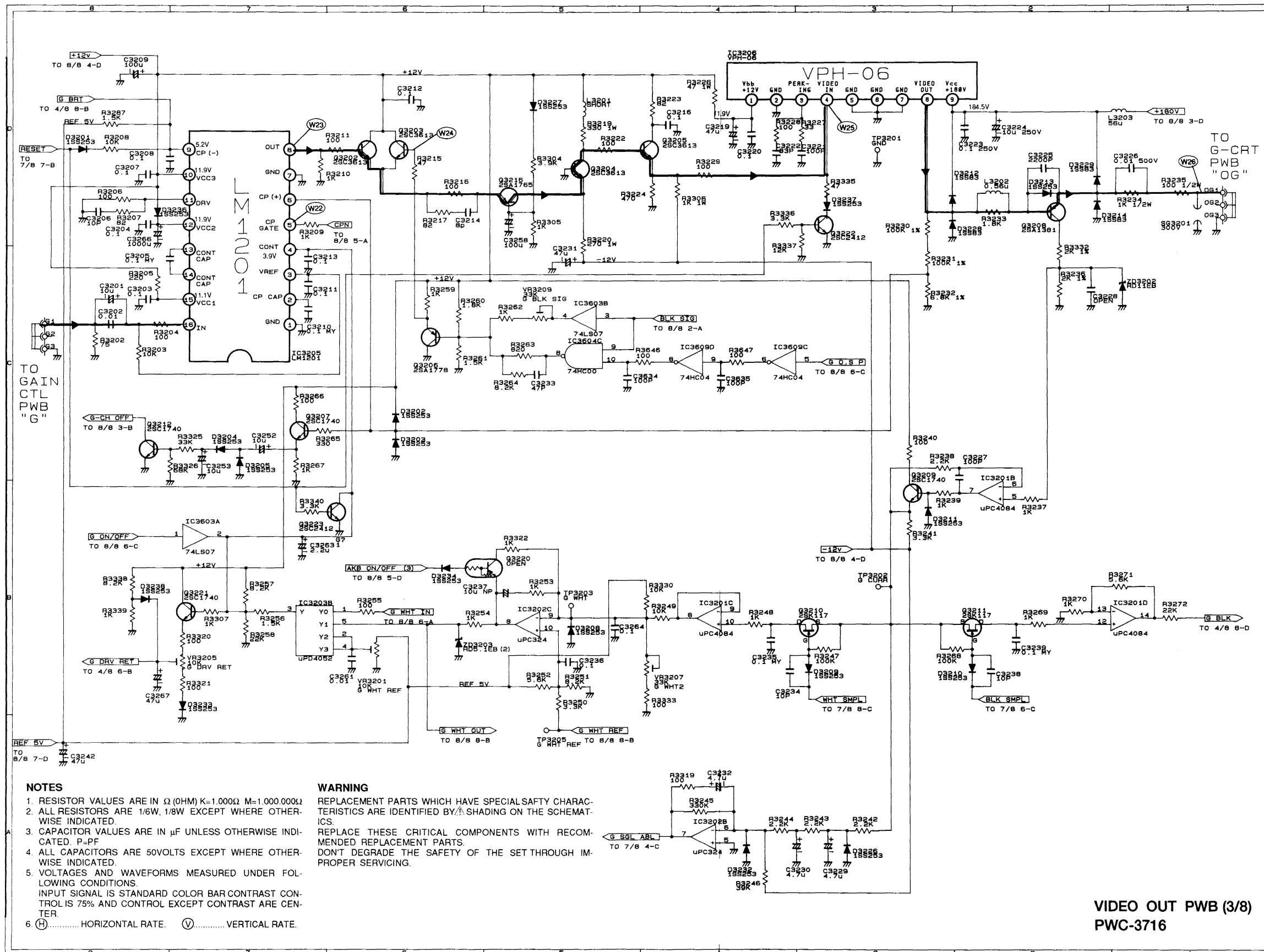


VIDEO OUT PWB (1/8)  
PWC-3716

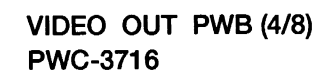
## VIDEO OUT PWB



## VIDEO OUT PWB

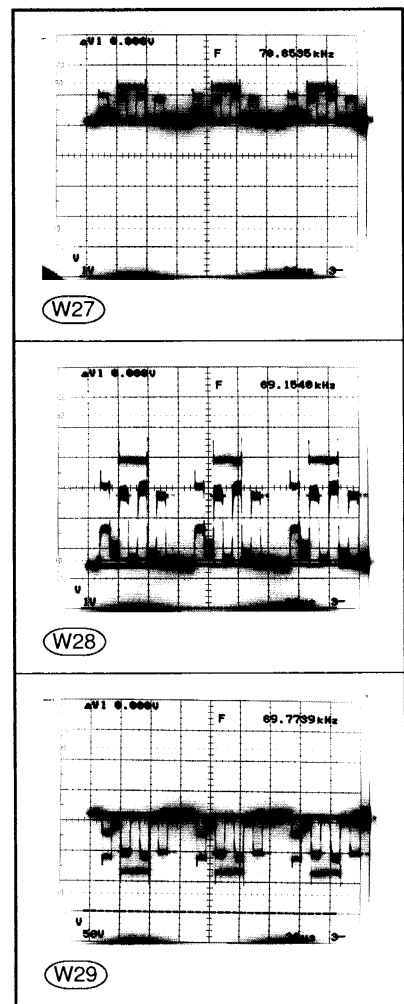
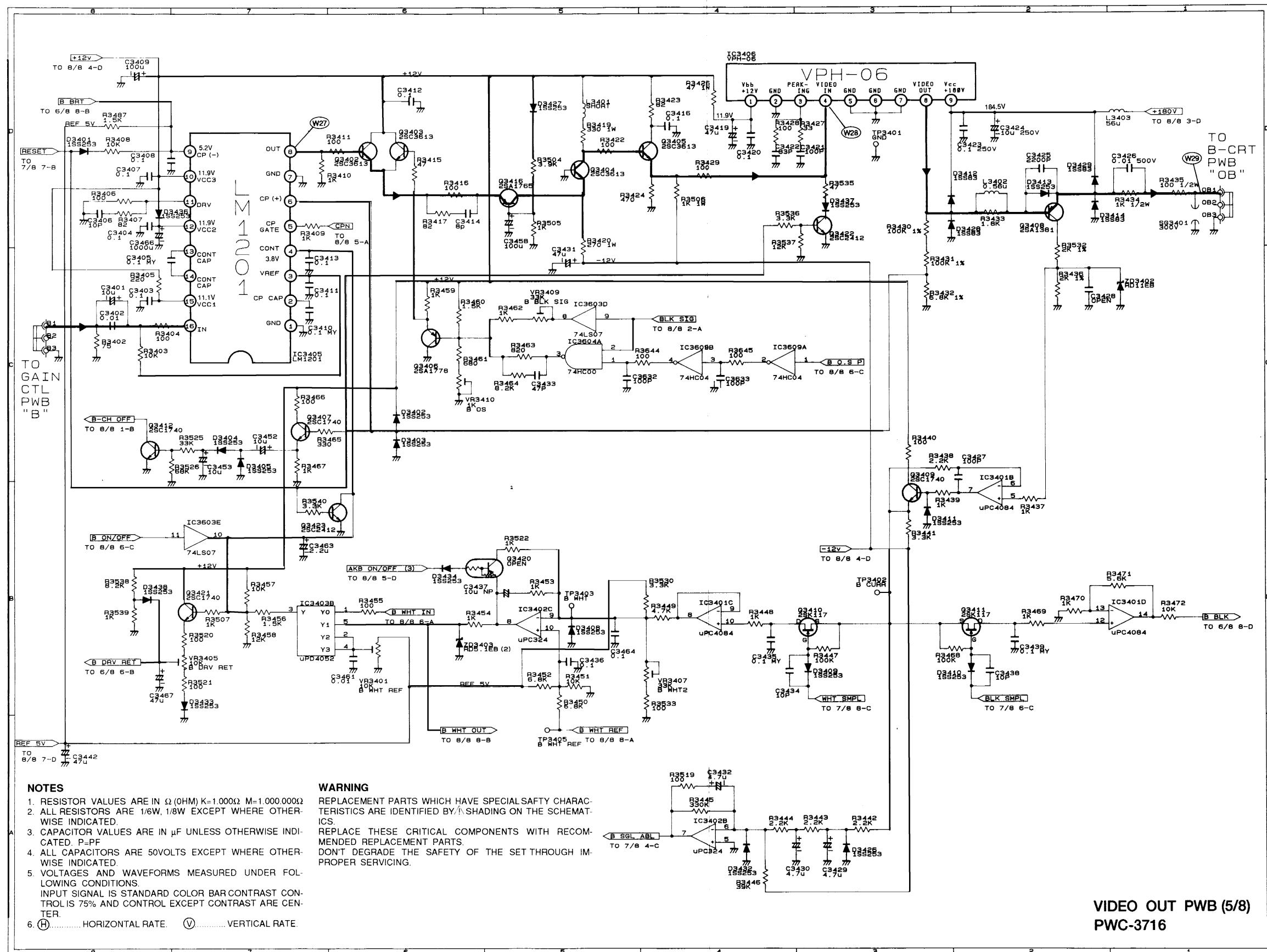






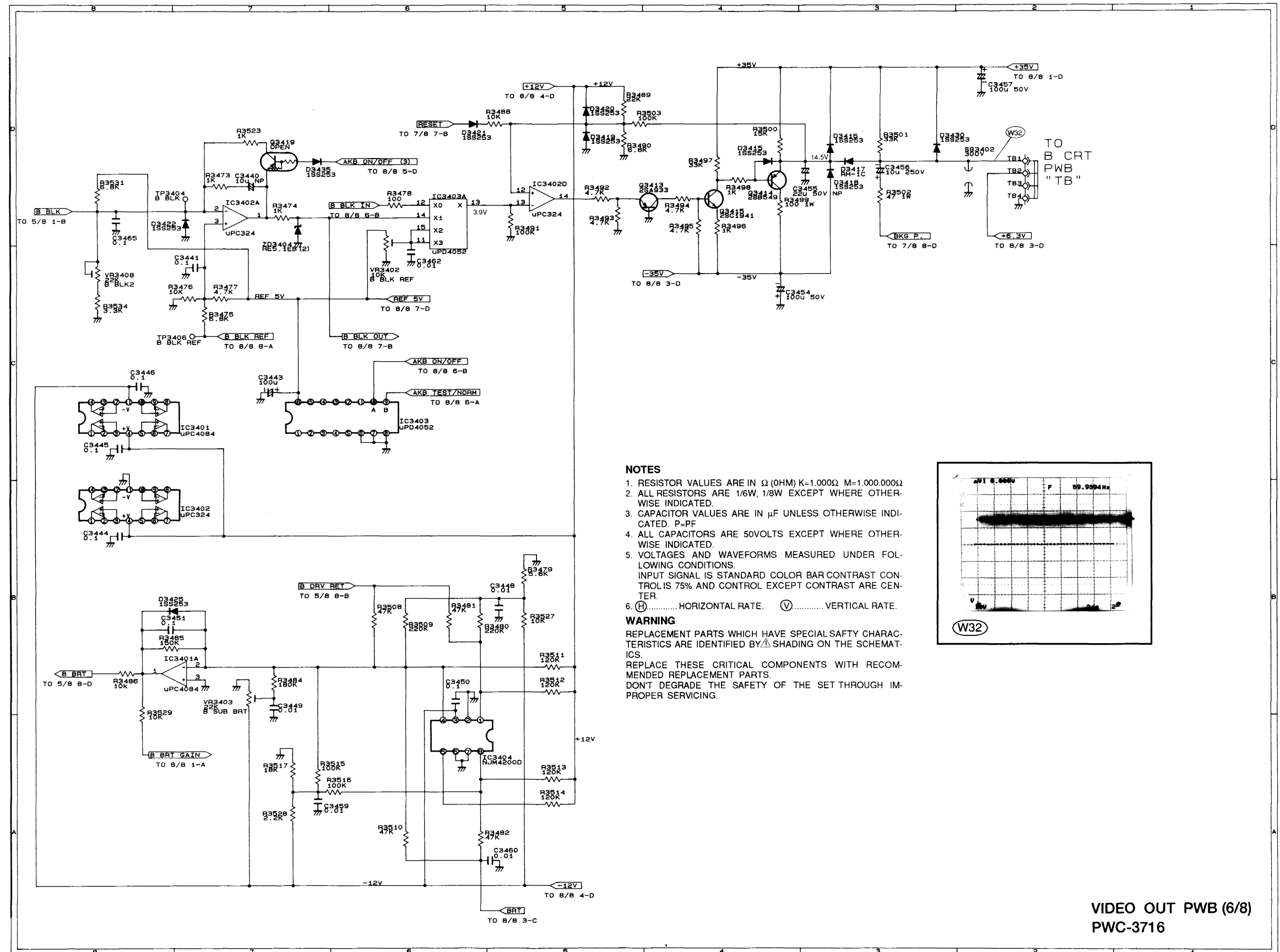
# SCHEMATIC DIAGRAMS

## VIDEO OUT PWB



VIDEO OUT PWB (5/8)  
PWC-3716




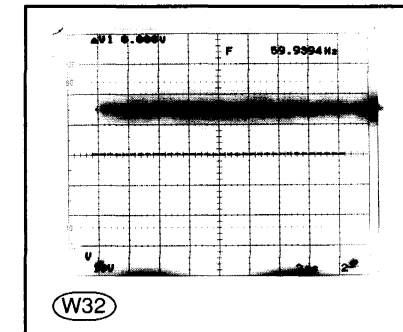


## NOTES

1. RESISTOR VALUES ARE IN  $\Omega$  (OHM)  $K=1,000\Omega$   $M=1,000,000\Omega$
2. ALL RESISTORS ARE 1/6W, 1/8W EXCEPT WHERE OTHERWISE INDICATED.
3. CAPACITOR VALUES ARE IN  $\mu F$  UNLESS OTHERWISE INDICATED.  $P=PF$
4. ALL CAPACITORS ARE 50VOLTS EXCEPT WHERE OTHERWISE INDICATED.
5. VOLTAGES AND WAVEFORMS MEASURED UNDER FOLLOWING CONDITIONS.  
INPUT SIGNAL IS STANDARD COLOR BAR CONTRAST CONTROL IS 75% AND CONTROL EXCEPT CONTRAST ARE CENTER.
6. (H)..... HORIZONTAL RATE. (V)..... VERTICAL RATE.

**WARNING**

REPLACEMENT PARTS WHICH HAVE SPECIAL SAFETY CHARACTERISTICS ARE IDENTIFIED BY  SHADING ON THE SCHEMATICS. REPLACE THESE CRITICAL COMPONENTS WITH RECOMMENDED REPLACEMENT PARTS. DON'T DEGRADE THE SAFETY OF THE SET THROUGH IMPROPER SERVICING.




VIDEO OUT PWB (6/8)  
PWC-3716

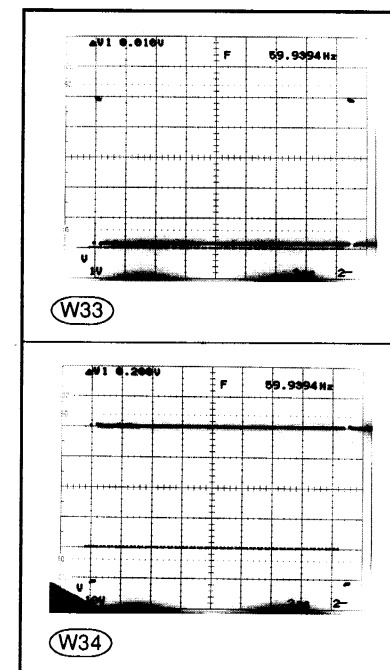
## VIDEO OUT PWB



1. RESISTOR VALUES ARE IN  $\Omega$  (OHM) K=1,000.0 M=1,000,000.0
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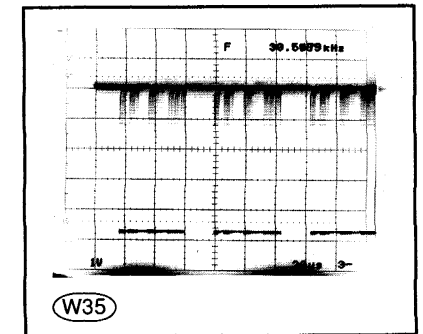
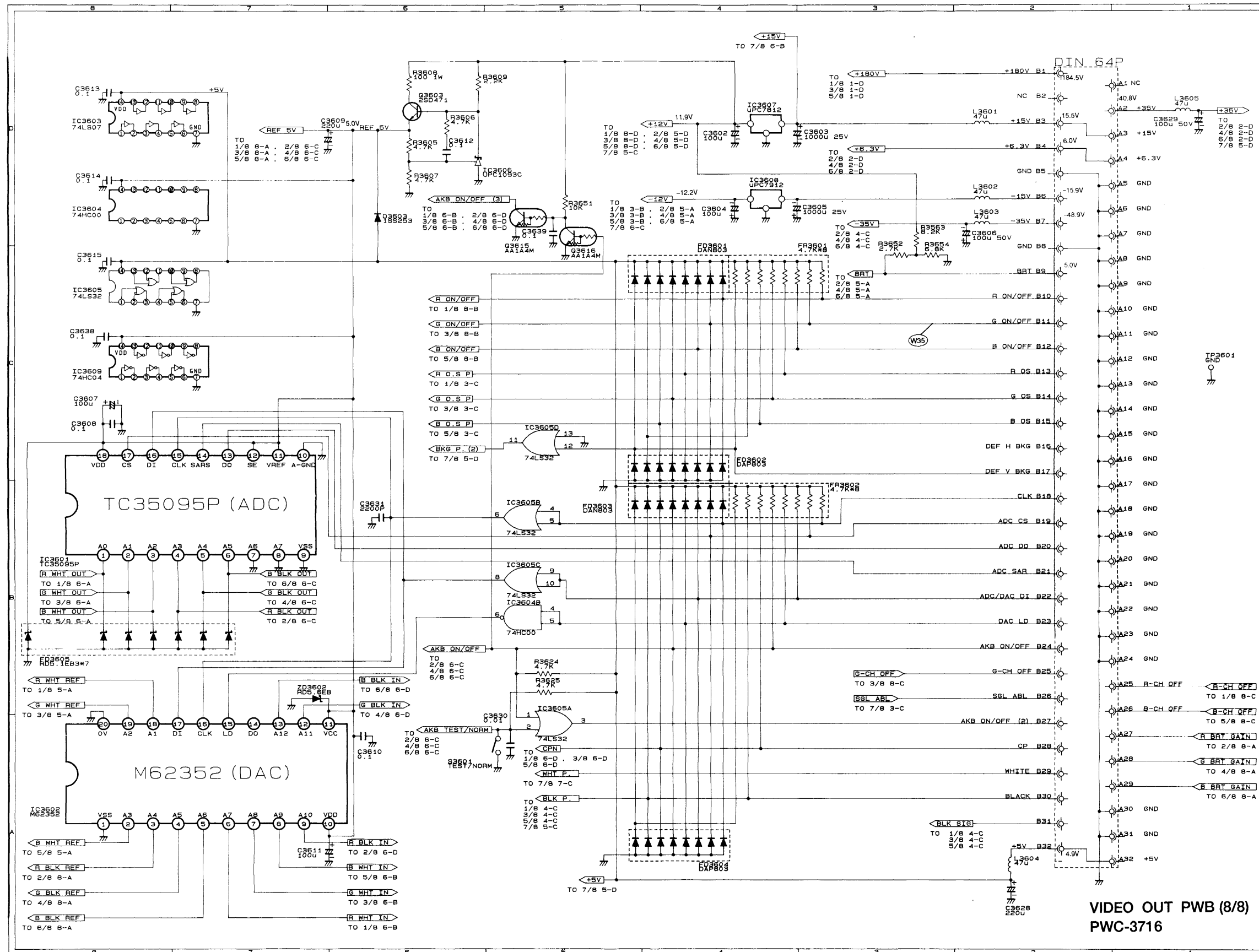
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VIDEO OUT PWB (7/8)  
PWC-3716

## VIDEO OUT PWB

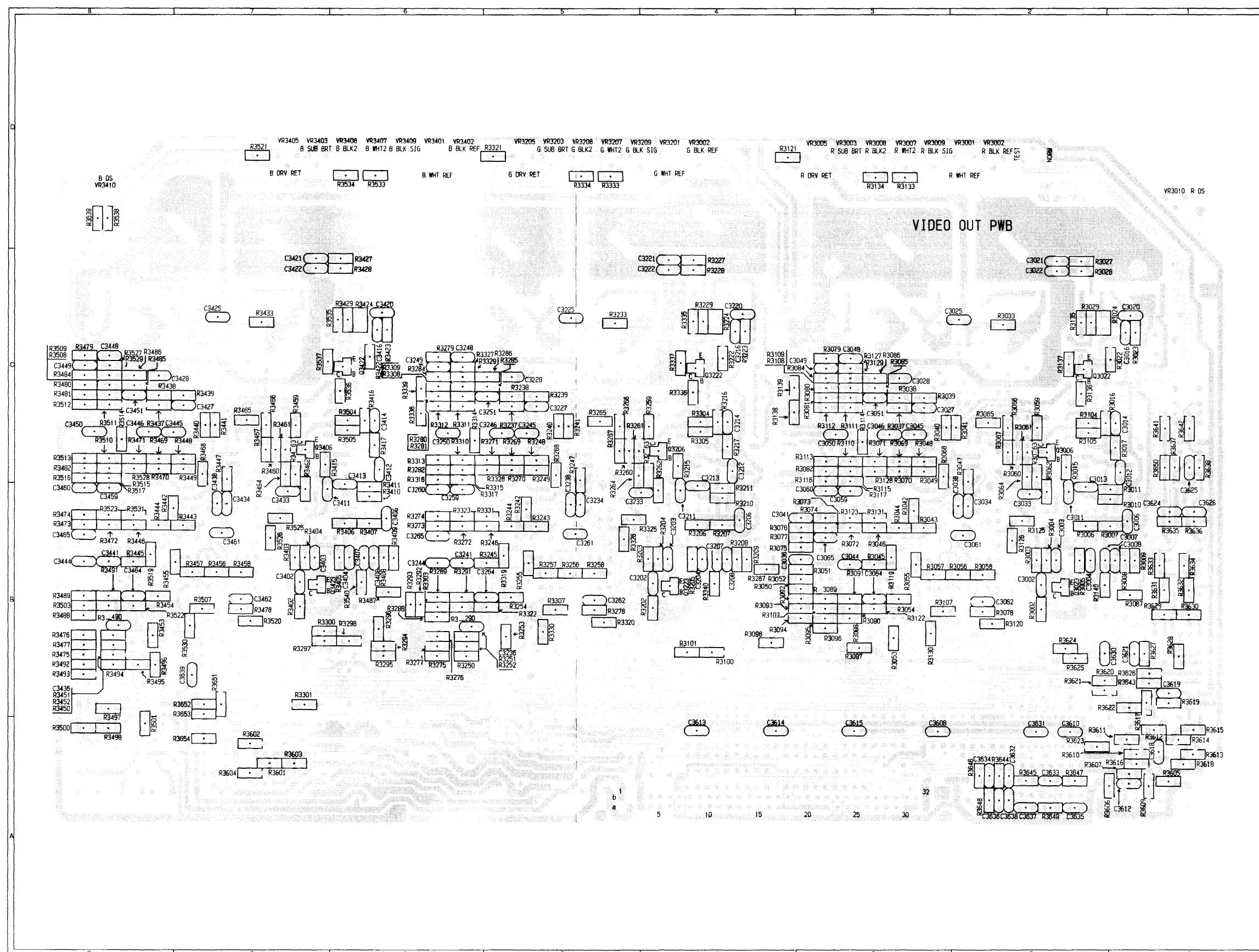


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6. (H) HORIZONTAL RATE. (V) VERTICAL RATE.

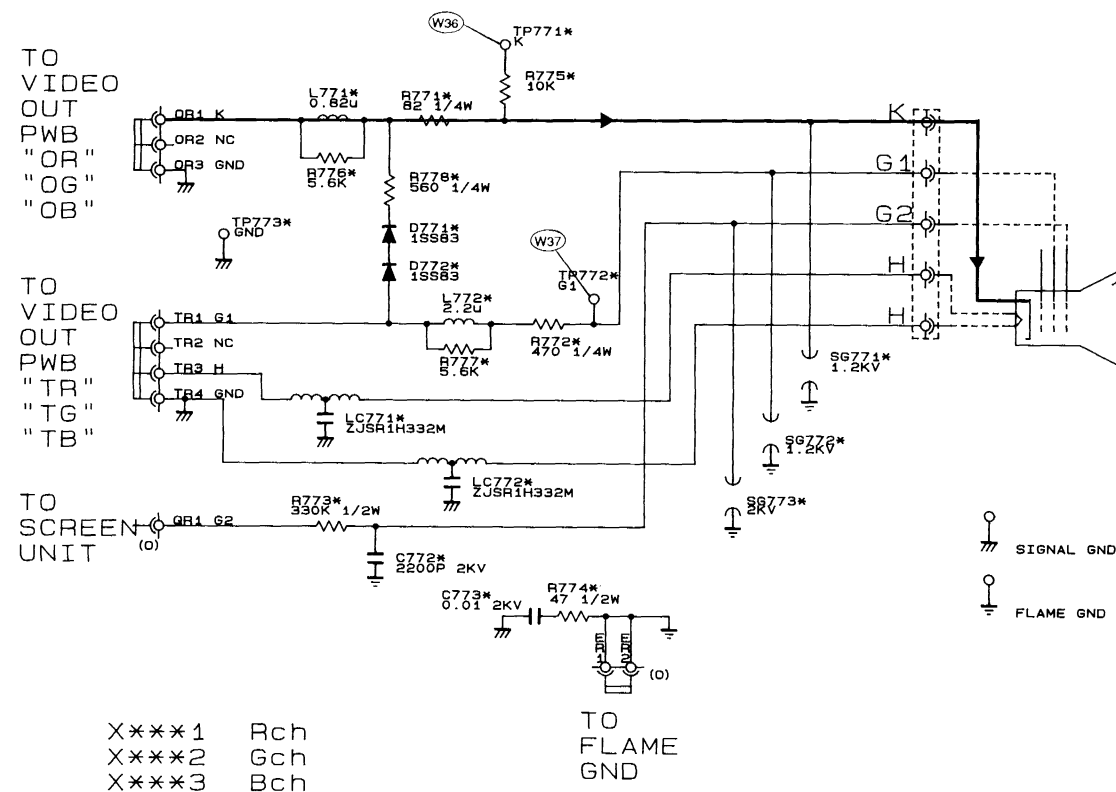
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V-CRT PWB (R : PWC-3711D, G : PWC-3711E, B : PWC-3711F) • SCHEMATIC DIAGRAMS • PWB (SOLDER SIDE)

• WAVEFORM

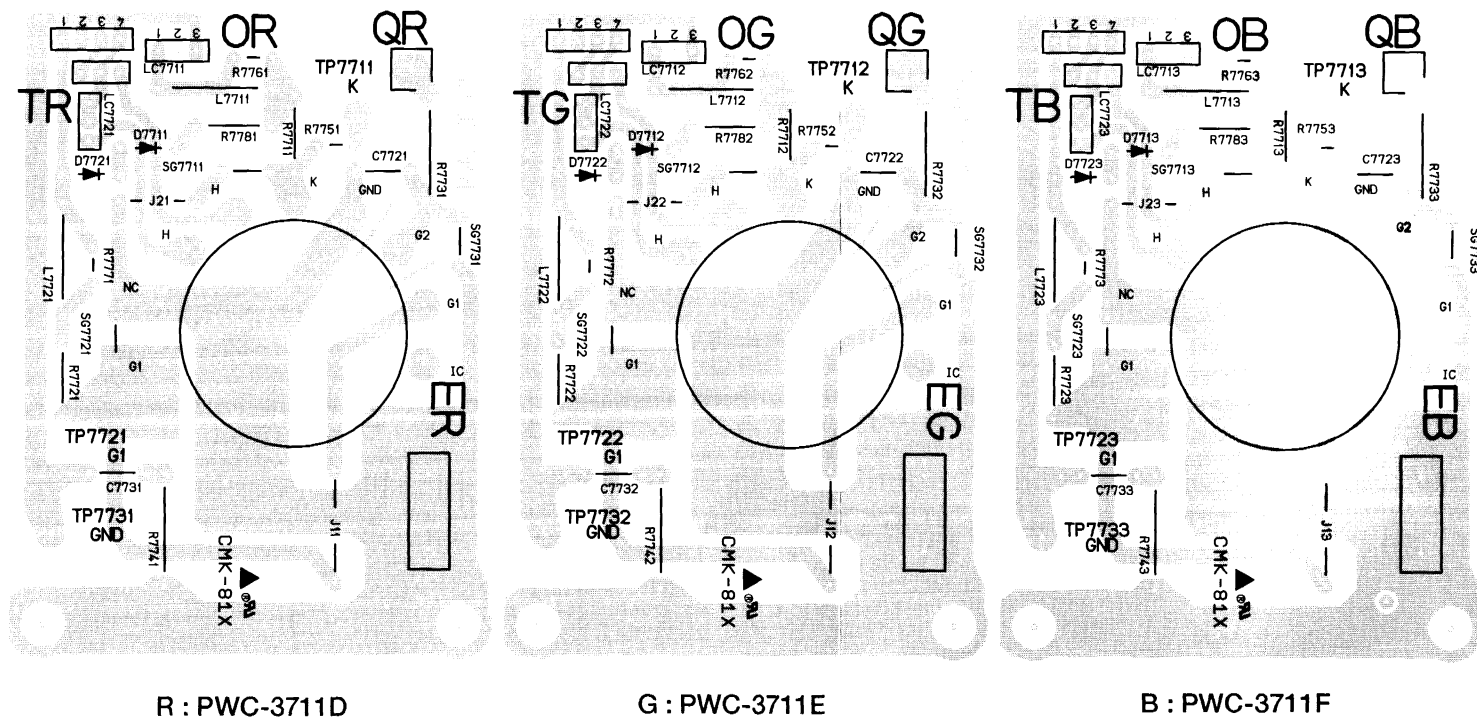
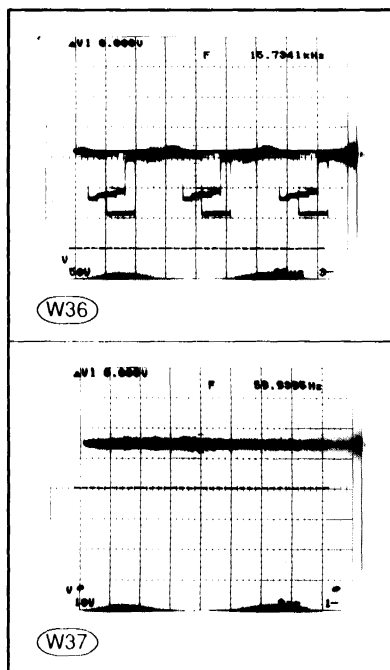


## NOTES

1. RESISTOR VALUES ARE IN  $\Omega$  (OHM) K=1,000 $\Omega$  M=1,000,000 $\Omega$
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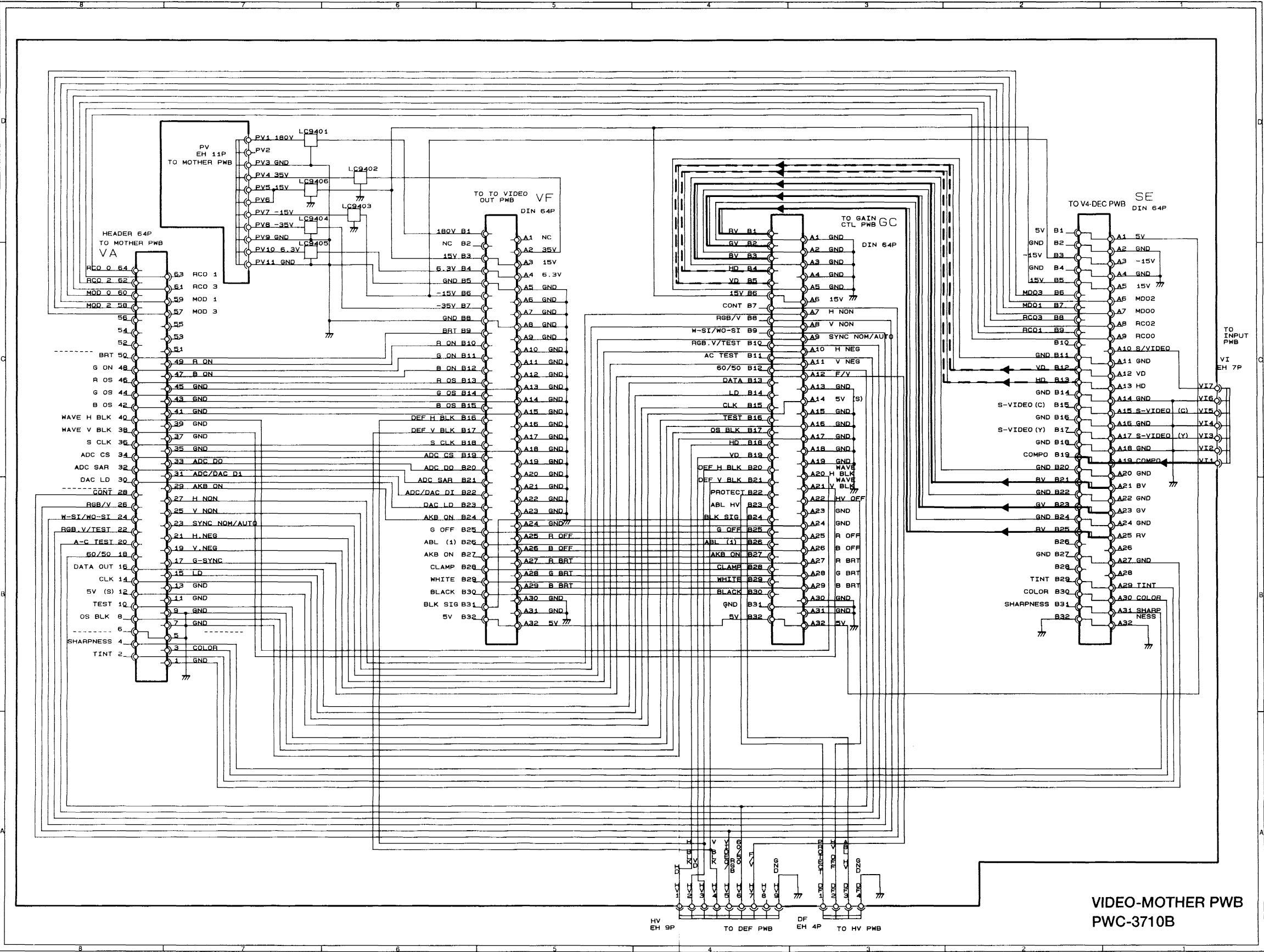
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SCHEMATIC DIAGRAMS

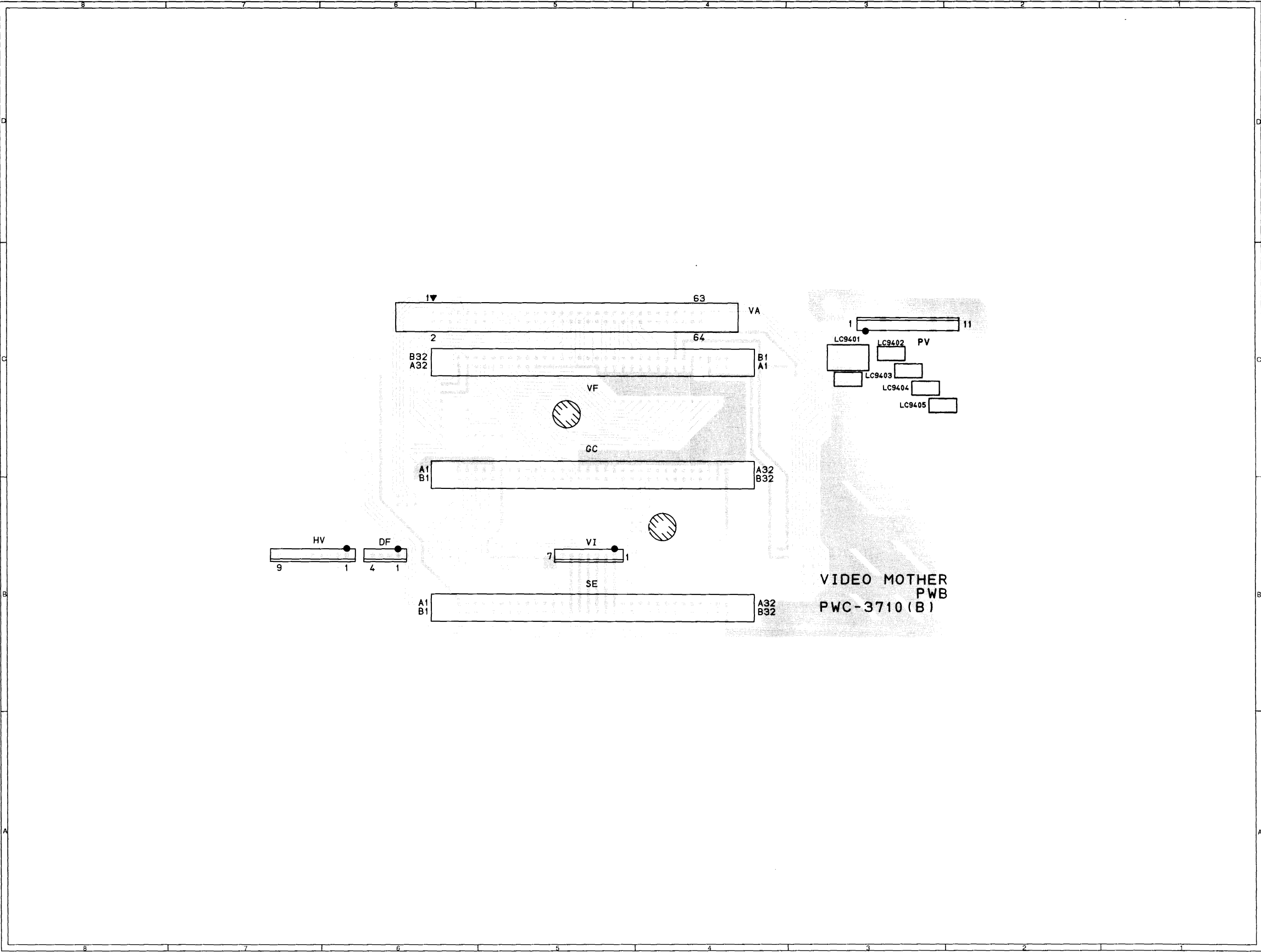
VIDEO-MOTHER PWB (PWC-3710B) • SCHEMATIC DIAGRAMS  
• PWB (SOLDER SIDE)



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VIDEO-MOTHER PWB  
PWC-3710B

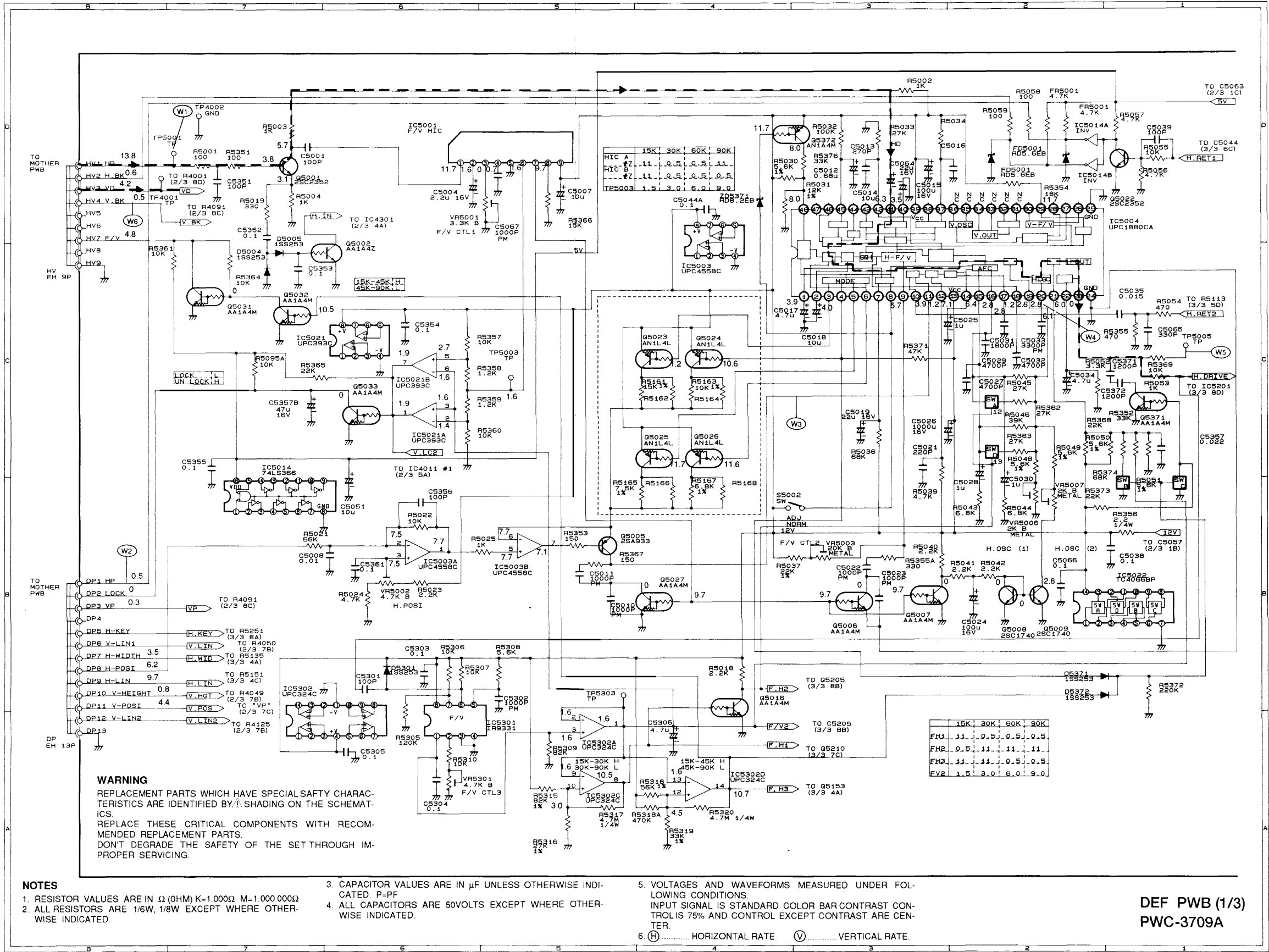
VIDEO-MOTHER PWB (PWC-3710B)



SCHEMATIC DIAGRAMS

DEF PWB (PWC-3709A)/V-POS1 PWB (PWC-3709B)

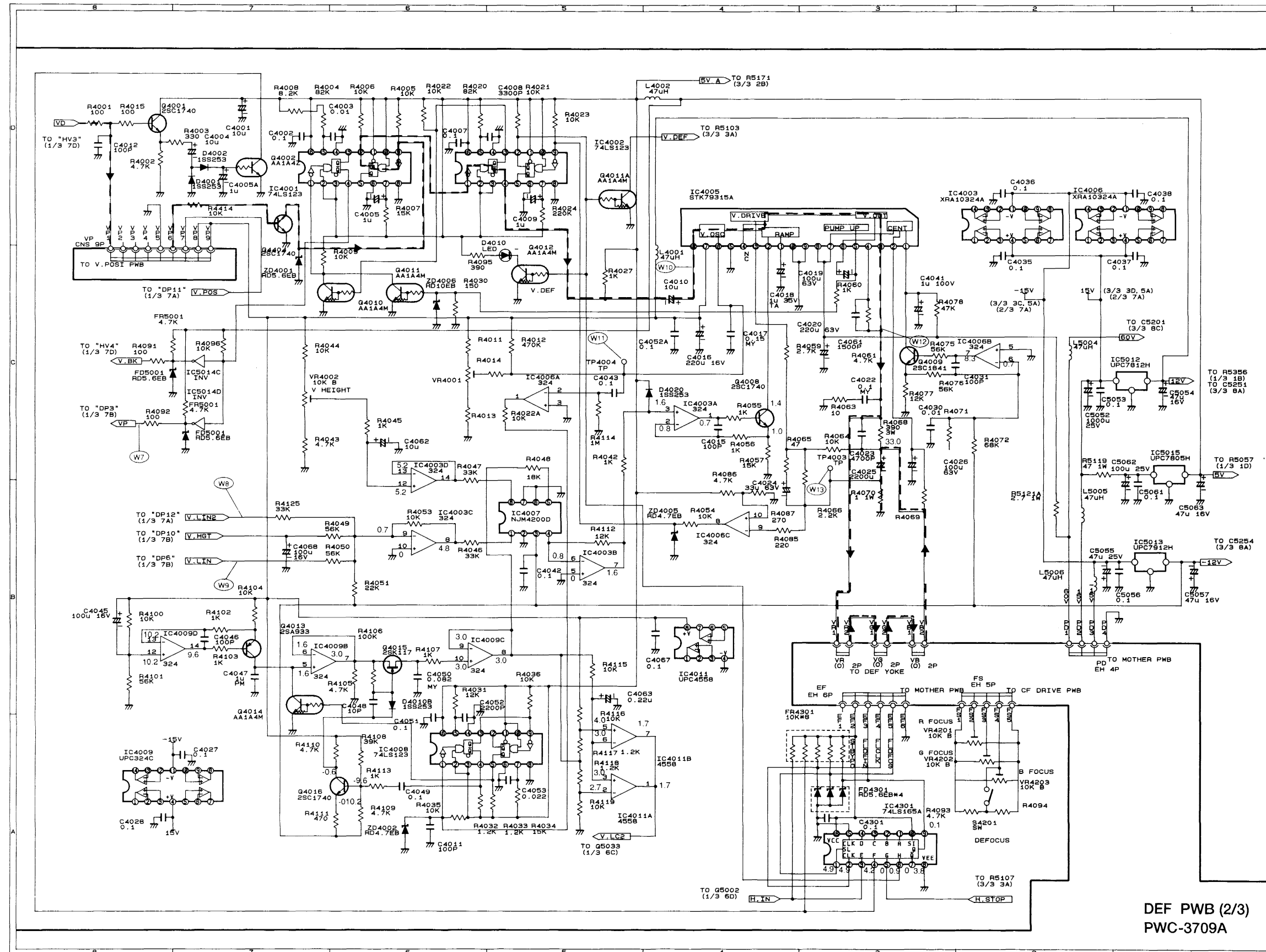
- SCHEMATIC DIAGRAMS
- WAVEFORM
- VOLTAGE
- PWB (SOLDER SIDE)



DEF PWB (1/3)  
PWC-3709A



## DEF PWB (PWC-3709A)/V-POS1 PWB (PWC-3709B)

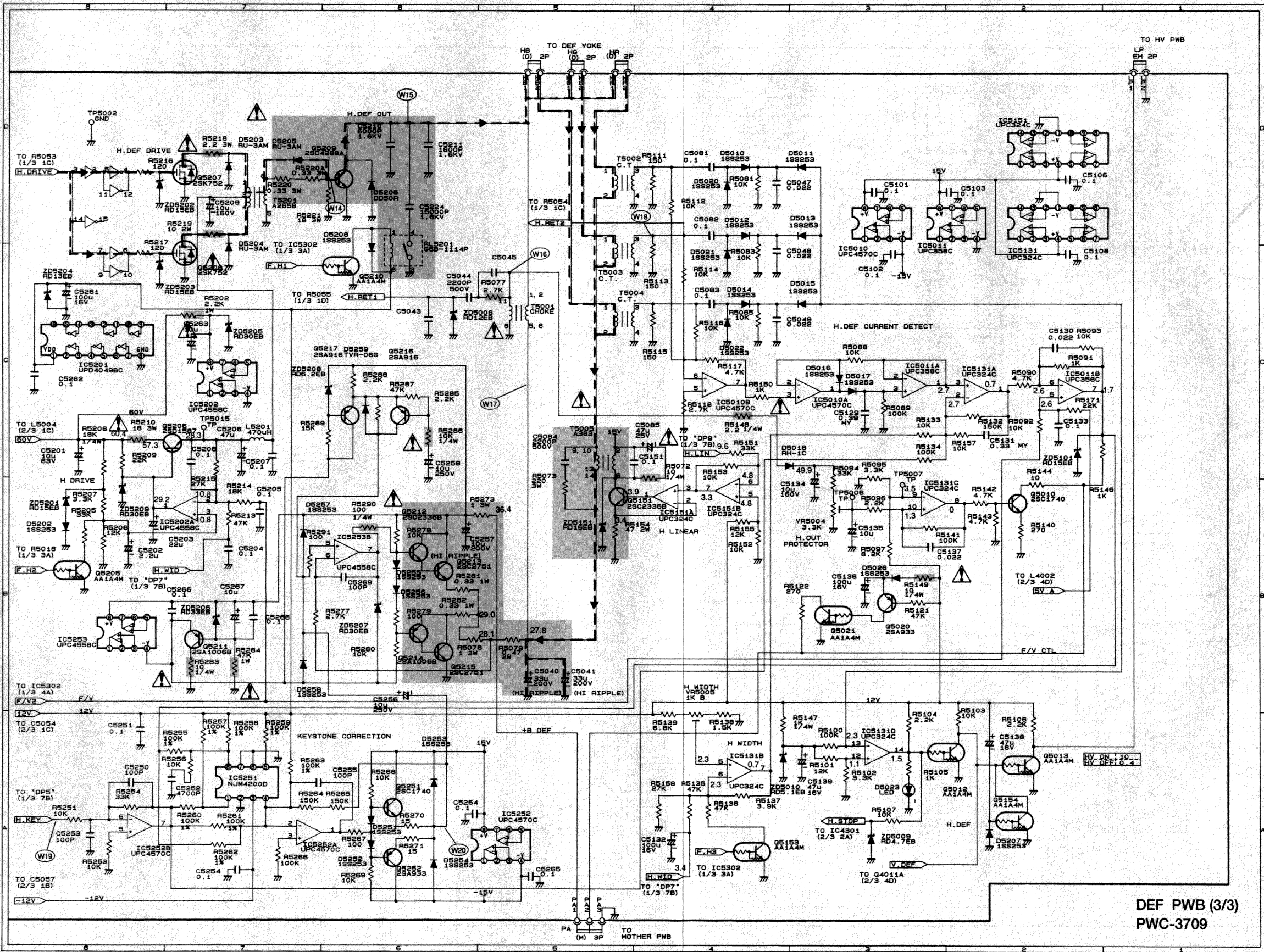


## NOTES

1. RESISTOR VALUES ARE IN  $\Omega$  (OHM) K=1 000 $\Omega$  M=1 000 000 $\Omega$
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6. (H) HORIZONTAL RATE (V) VERTICAL RATE

## WARNING

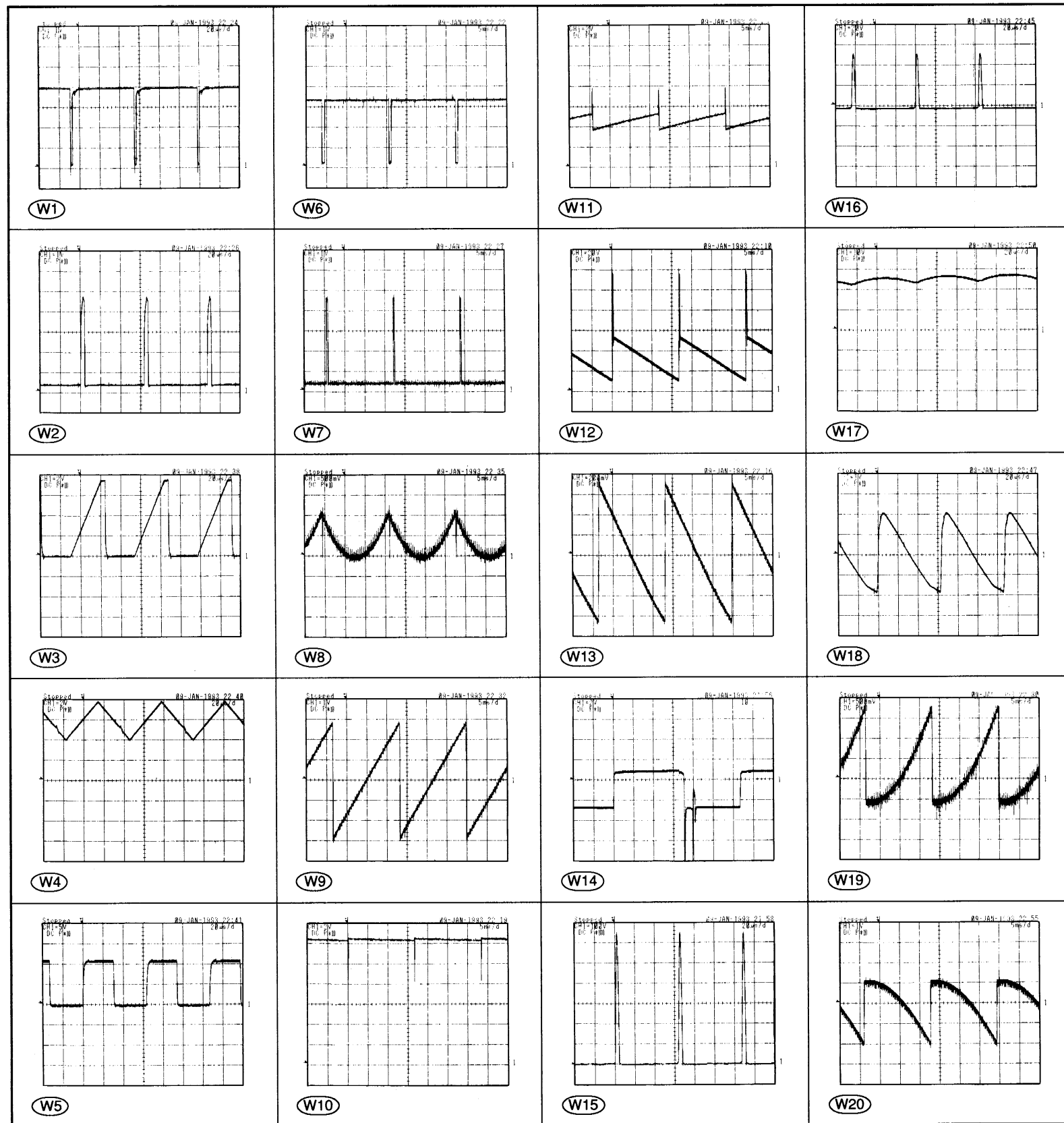
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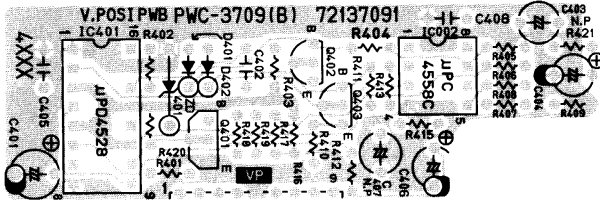
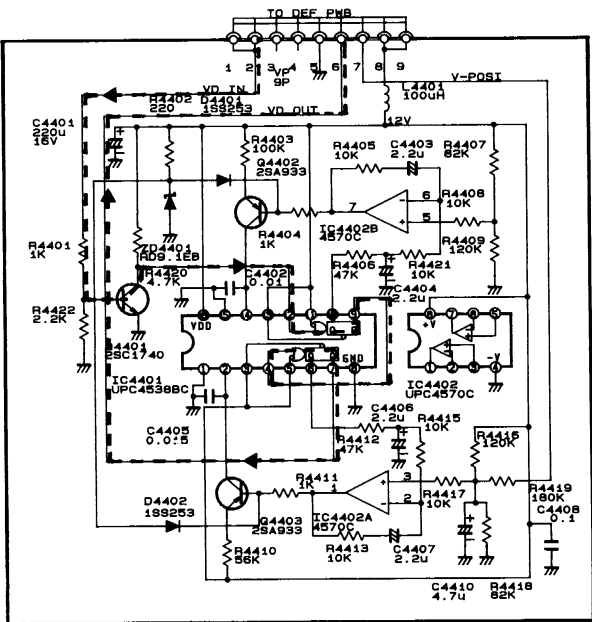
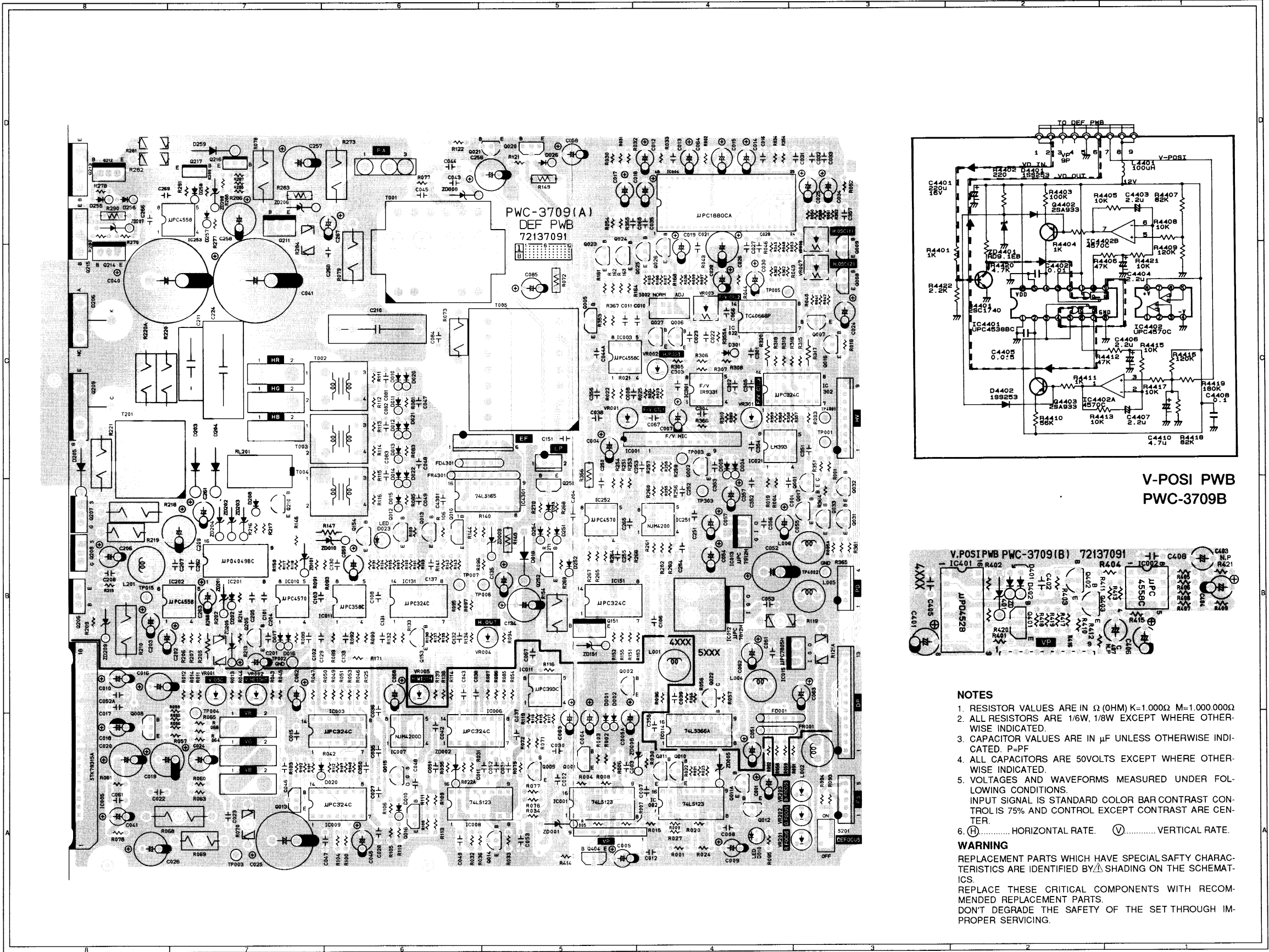
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DEF PWB (3/3)  
PWC-3709

DEF PWB (PWC-3709A)/V-POSI PWB (PWC-3709B)

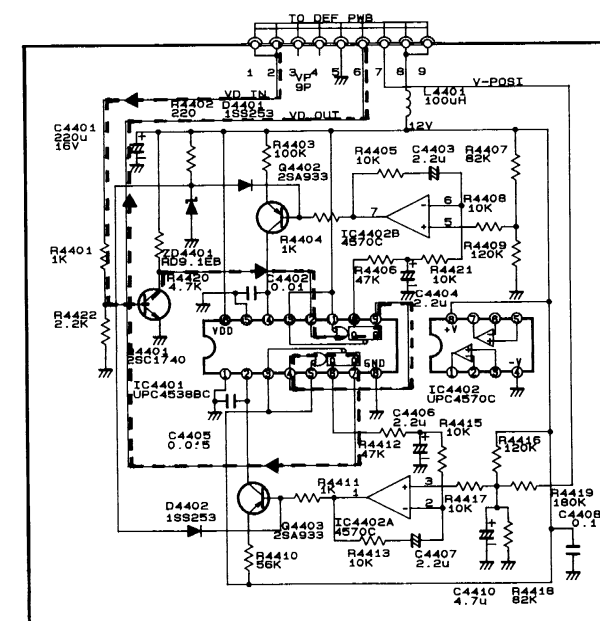




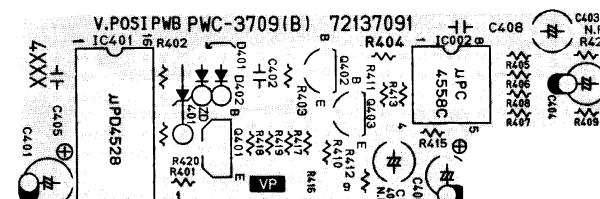


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V-POSI PWB  
PWC-3709B



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NOTES

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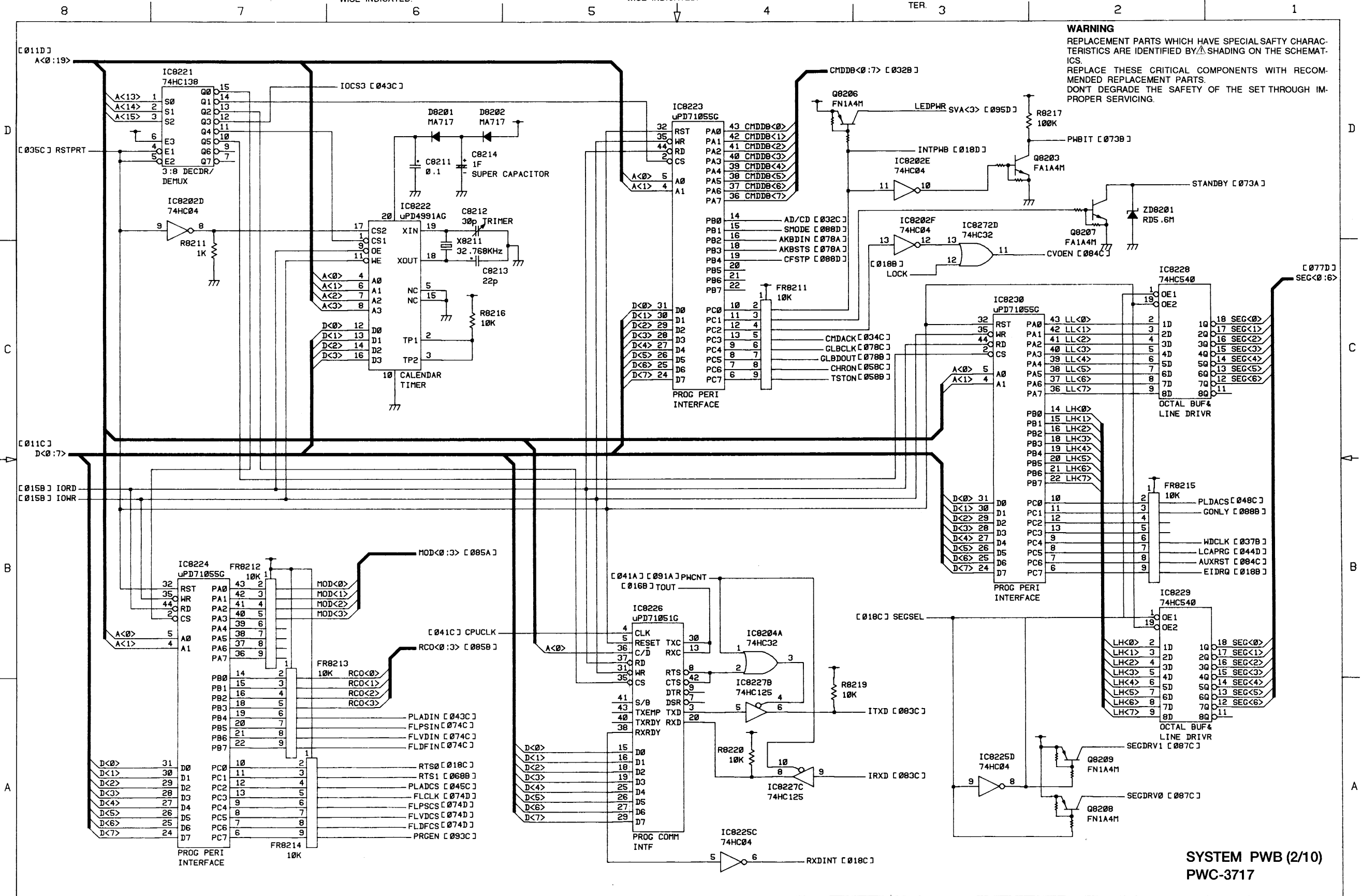
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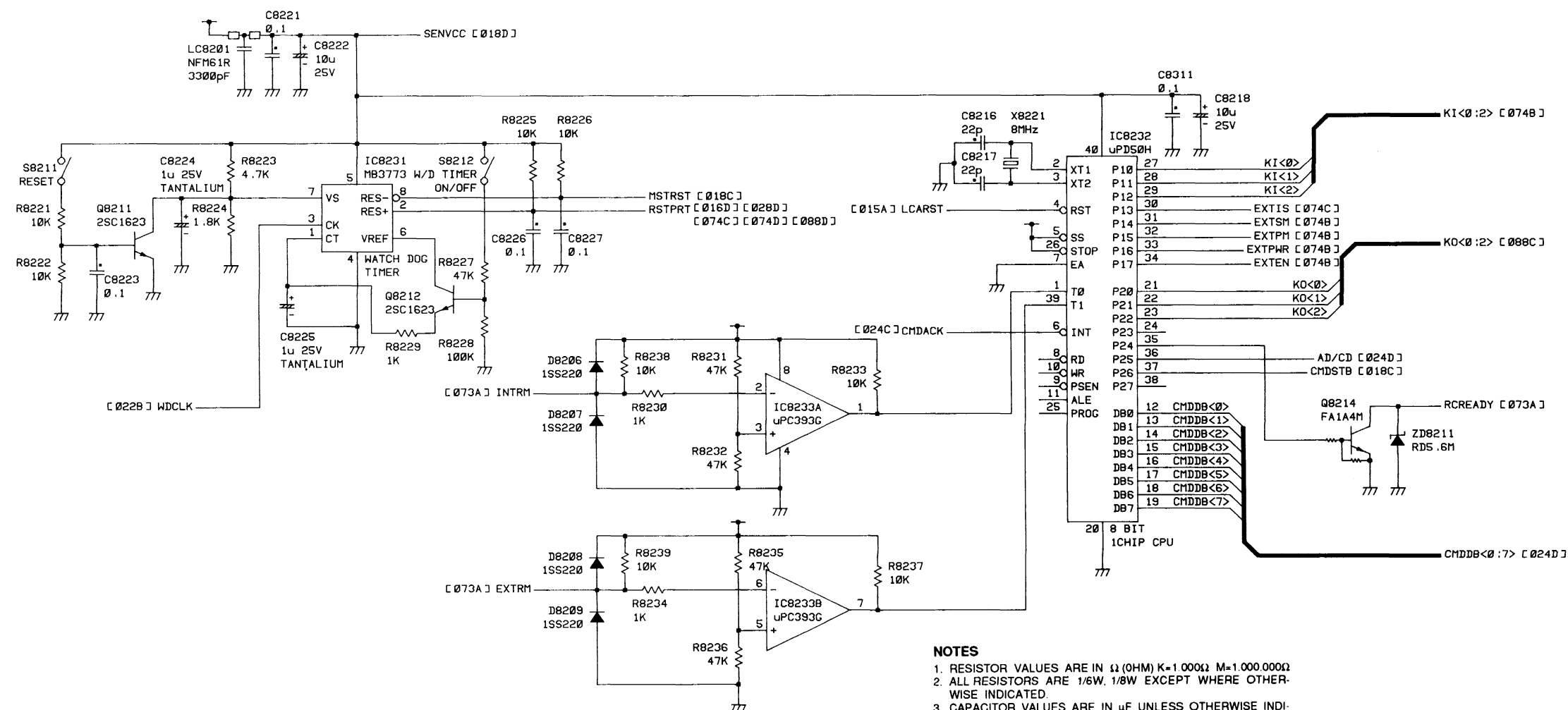
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## SYSTEM PWB



## NOTES

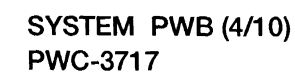
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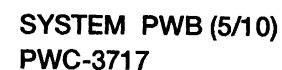
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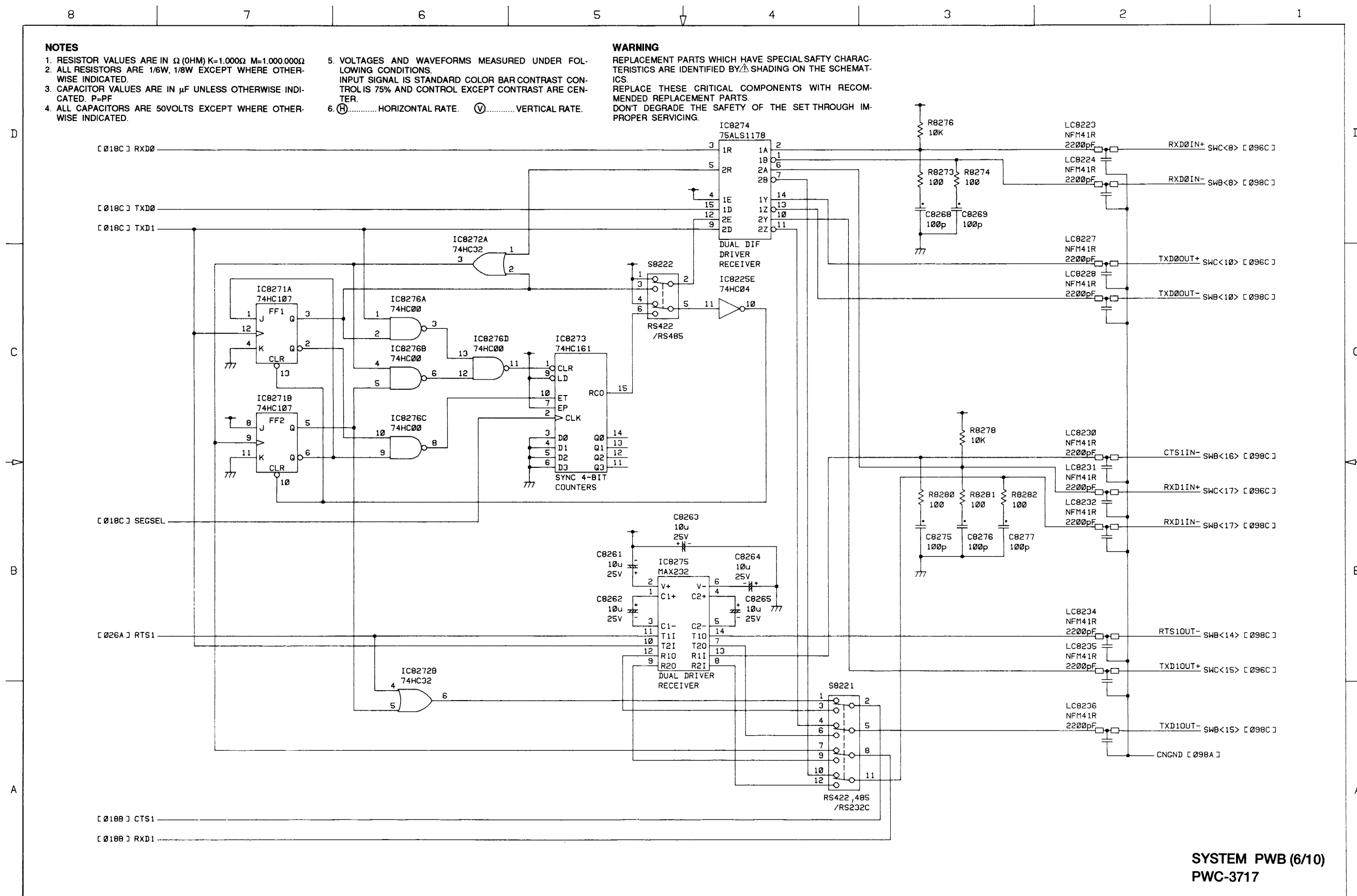
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SYSTEM PWB (3/10)  
PWC-3717

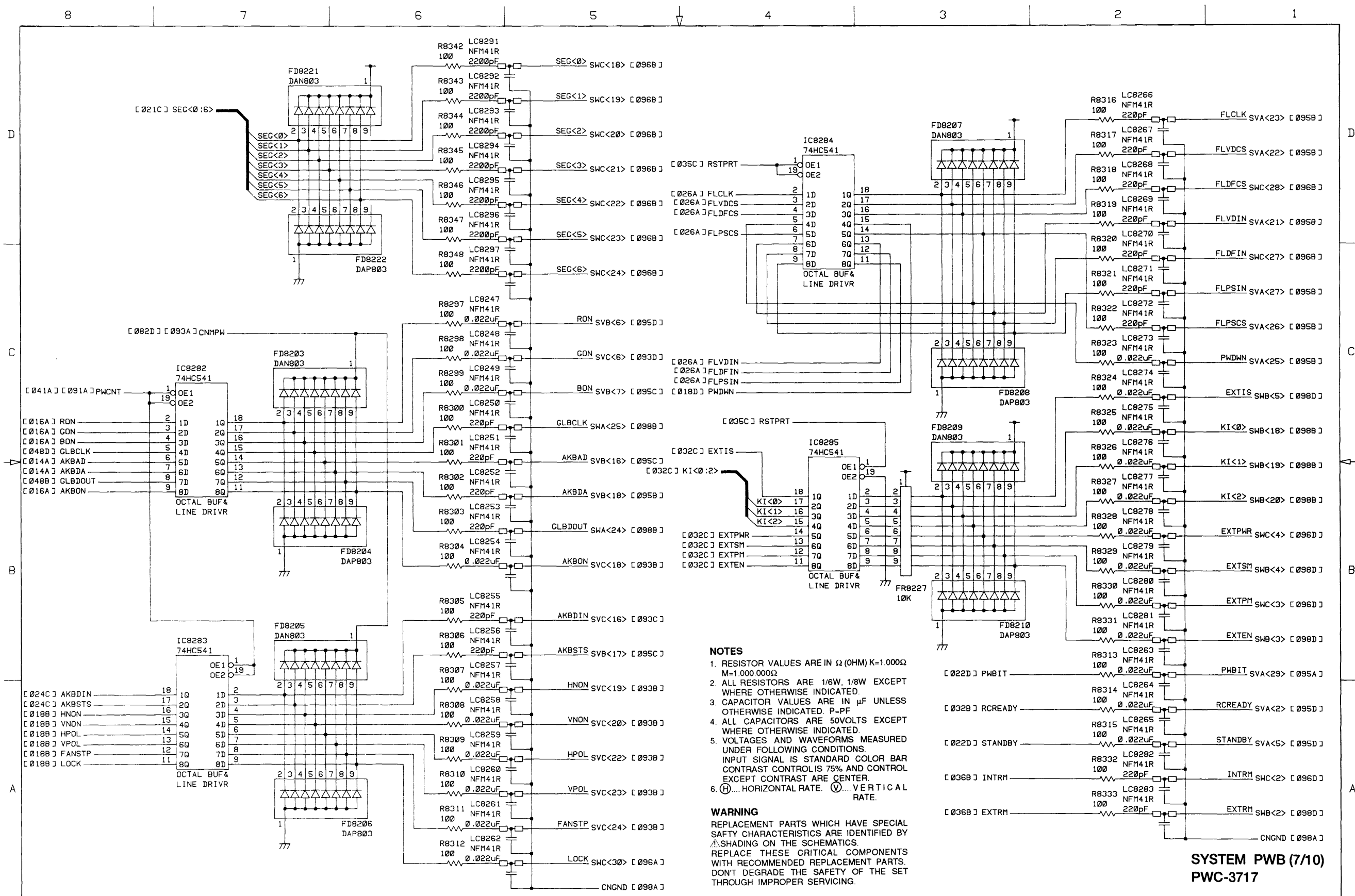
## SYSTEM PWB





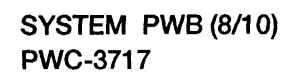


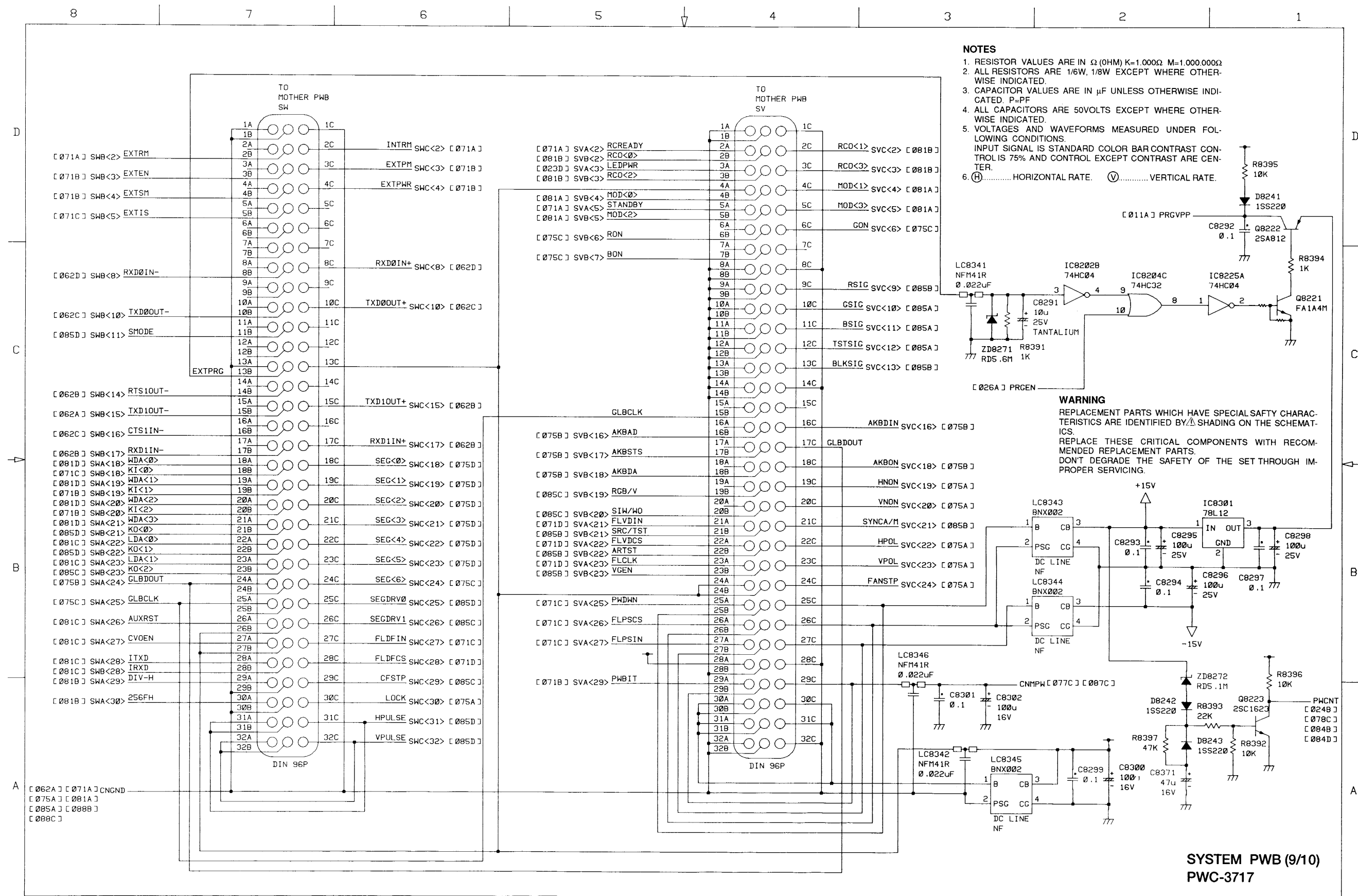
## SYSTEM PWB



SYSTEM PWB (7/10)  
PWC-3717

## SYSTEM PWB







SCHEMATIC DIAGRAMS

SYSTEM PWB

