

DIGITAL CONTROL 14 INCH MONITOR ENGINEERING SPECIFICATION OPTIQUEST DA-456 AA/BA**PRESET MODE: (FACTORY MODE)****THE MONITOR'S FACTORY PRESET RESOLUTION AND FREQUENCIES SHALL BE AS FOLLOW:**

		PRESET	PRESET	PRESET
		MODE - 1	MODE - 2	MODE - 3
		640 x 480 (60)	640 x 480 (85)	720 x 400 (85)
DOT CLOCK		25.175 MHz	36.000 MHz	35.5 MHz
H	H frequency	31.469 KHz	43.269 KHz	37.927 KHz
	A-PERIOD (total)	31.778 us (800 dots)	23.111 us (832 dots)	26.366 us (936 dots)
	B-ACTIVE (display)	25.422 us (640 dots)	17.778 us (640 dots)	20.282 us (720 dots)
	C-BACK PROCH	1.907 us (48 dots)	2.222 us (80 dots)	3.042 us (108 dots)
	D-SYNC WIDTH	3.813 us (96 dots)	1.556 us (56 dots)	2.028 us (72 dots)
	E-FRONT PROCH	0.636 us (16 dots)	1.556 us (56 dots)	1.014 us (36 dots)
	F-BLANKING	6.356 us (160 dots)	5.333 us (192 dots)	6.085 us (216 dots)
V	V frequency	59.94 Hz	85.008 Hz	85.039 Hz
	A-PERIOD (total)	16.683 ms (525 lines)	11.764 ms (509 lines)	11.759 ms(446 lines)
	B-ACTIVE (display)	15.253 ms (480 lines)	11.093 ms (480 lines)	10.546ms(400 lines)
	C-BACK PROCH	1.048 ms (33 lines)	0.578 ms (25 lines)	1.107 ms (42 lines)
	D-SYNC WIDTH	0.064 ms (2 lines)	0.069 ms (3 lines)	0.079 ms (3 lines)
	E-FRONT PROCH	0.318 ms (10 line)	0.023 ms (1 line)	0.026 ms (1 line)
	F-BLANKING	1.430 ms (45 lines)	0.670 ms (29 lines)	1.213 ms (46 lines)
SYNC POLARITY		Negative / Negative	Negative / Negative	Negative / Positive
		PRESET	PRESET	PRESET
		MODE - 4	MODE - 5	MODE - 6
		800 x 600 (60)	800 x 600 (85)	1024 x 768 (60)
DOT CLOCK		40.00 MHz	56.250 MHz	55.00 MHz
H	H frequency	37.88 KHz	53.674 KHz	48.36 KHz
	A-PERIOD (total)	26.400 us (1056 dots)	18.631 us (1048 dots)	20.68 us (1344 dots)
	B-ACTIVE (display)	20.000 us (800 dots)	14.222 us (800 dots)	15.75 us (1024 dots)
	C-BACK PROCH	2.200 us (88 dots)	2.702 us (152 dots)	2.46 us (160 dots)
	D-SYNC WIDTH	3.200 us (128 dots)	1.138 us (64 dots)	2.09 us (136 dots)
	E-FRONT PROCH	1.000 us (40 dots)	0.569 us (32 dots)	0.37 us (24 dots)
	F-BLANKING	6.400 us (256 dots)	4.409 us (248 dots)	4.92 us (320 dots)
V	V frequency	60.32 Hz	85.061 Hz	60.00 Hz
	A-PERIOD (total)	16.579 ms (628 lines)	11.756 ms (631 lines)	16.67 ms (806 lines)
	B-ACTIVE (display)	15.840 ms (600 lines)	11.179 ms (600 lines)	15.88 ms (768 lines)
	C-BACK PROCH	0.607 ms (23 lines)	0.503 ms (27 lines)	0.600 ms (29 lines)
	D-SYNC WIDTH	0.106 ms (4 lines)	0.056 ms (3 lines)	0.124 ms (6 lines)
	E-FRONT PROCH	0.026 ms (1 line)	0.019 ms (1 line)	0.062 ms (3 line)
	F-BLANKING	0.739 ms (28 lines)	0.578 ms (31 lines)	0.786 ms (38 lines)
SYNC POLARITY		Positive / Positive	Positive / Positive	Negative / Negative

USER MODES: 16 USER PROGRAMMABLE MODES WITHIN SCANNING FREQUENCIES.**SIGNAL****VIDEO INPUT**

TYPE : ANALOG R.G.B.
INPUT IMPEDANCE : 75 OHM +/- 5%
INPUT LEVELS : RANGE FROM 0V (BLACK) TO 0.7V

VIDEO BANDWIDTH

110 MHz PIXELA RATE INPUT SIGNAL.

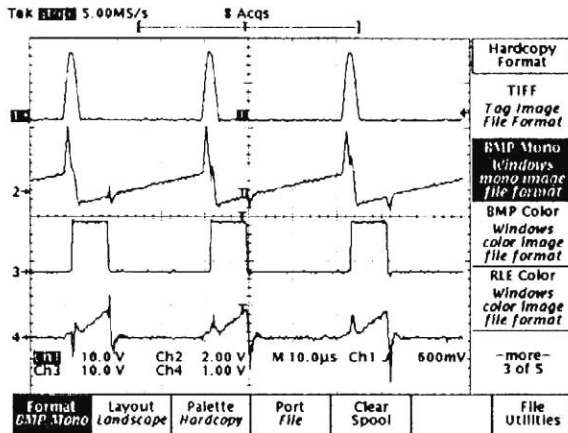
SCANNING FREQUENCIES

HORIZONTAL : 30KHz - 70KHz
VERTICAL : 50Hz - 100Hz

POWER SUPPLY WAVEFORM

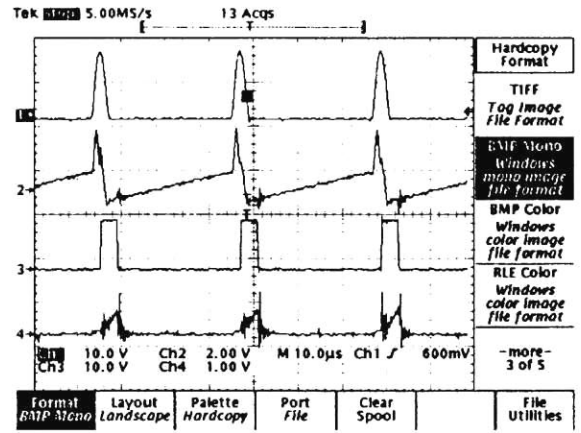
INPUT 110VAC

VGA640X480/60Hz / 31kHz

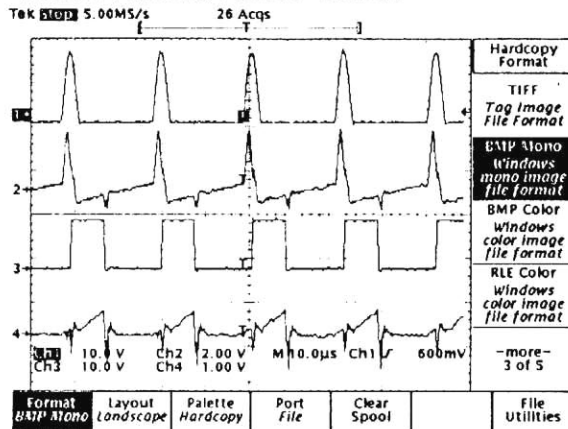


INPUT 240VAC

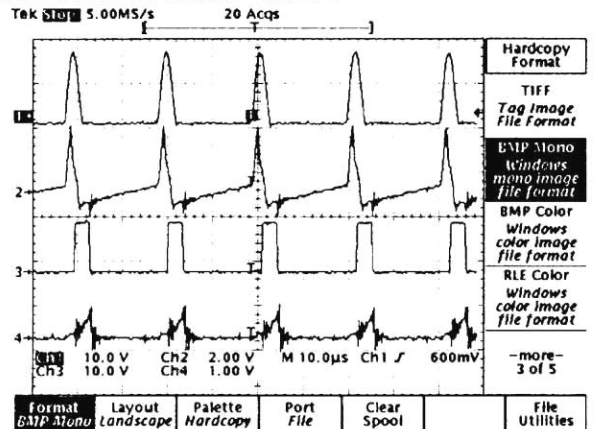
VGA640X480/60Hz / 31kHz



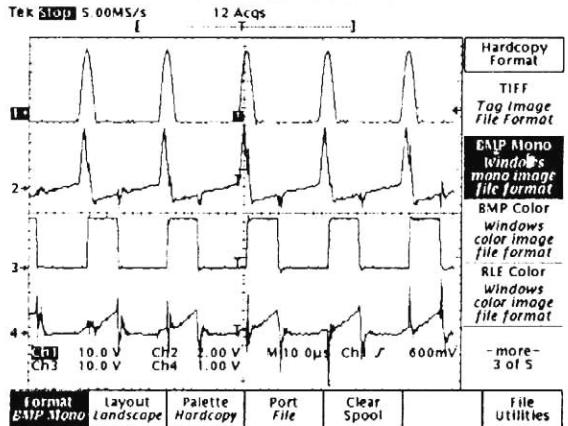
VESA800X600/75Hz / 48kHz



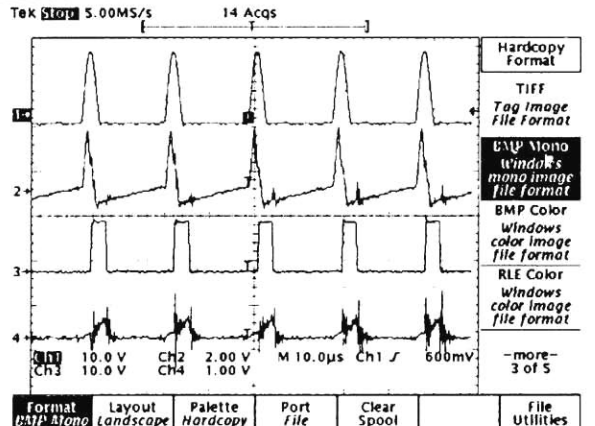
VESA800X600/75Hz / 48kHz



VESA800X600/85Hz / 53kHz



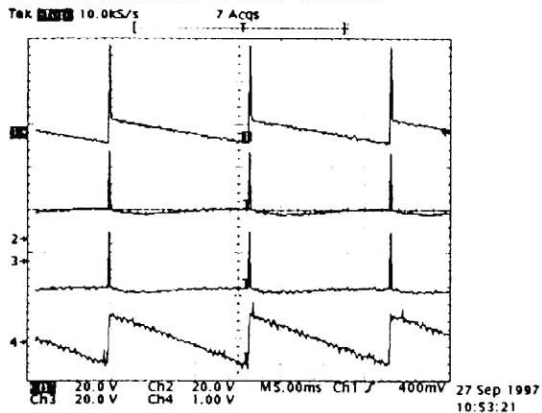
VESA800X600/85Hz / 53kHz



VERTICAL DEFLECTION WAVEFORM

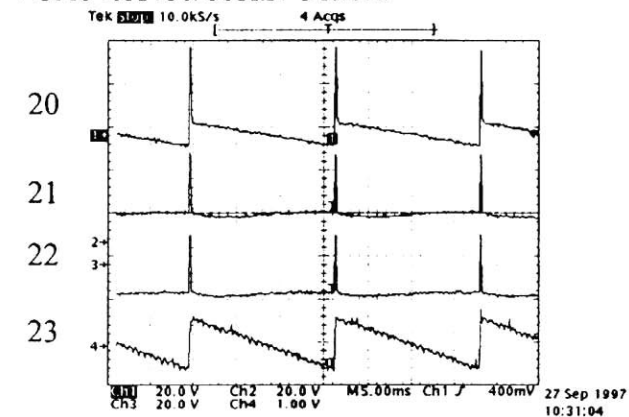
INPUT 110VAC

VGA640X480/60Hz / 31kHz

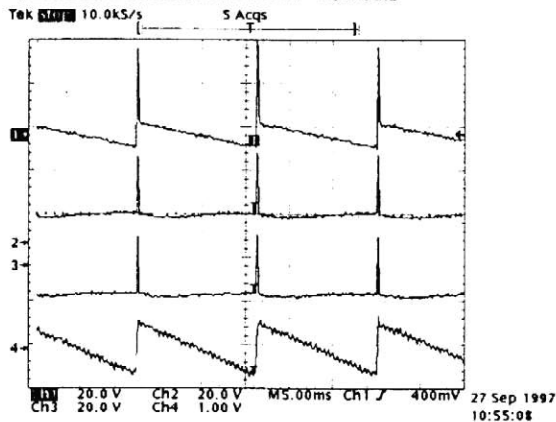


INPUT 240VAC

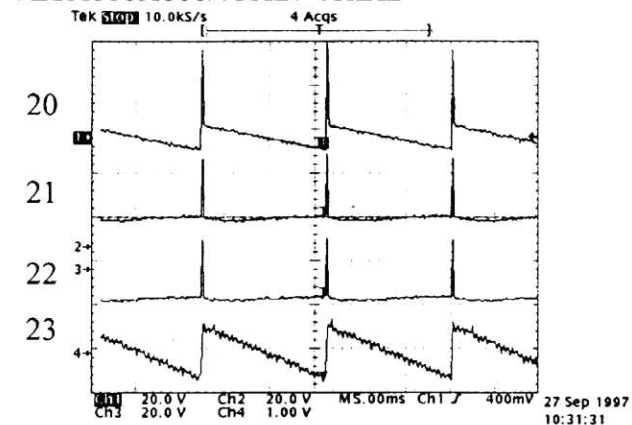
VGA640X480/60Hz / 31kHz



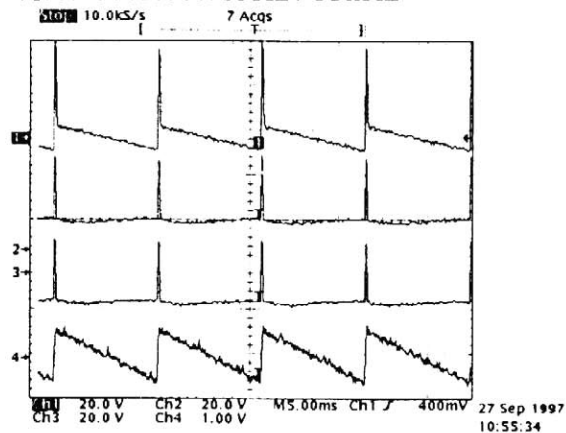
VESA800X600/75Hz / 48kHz



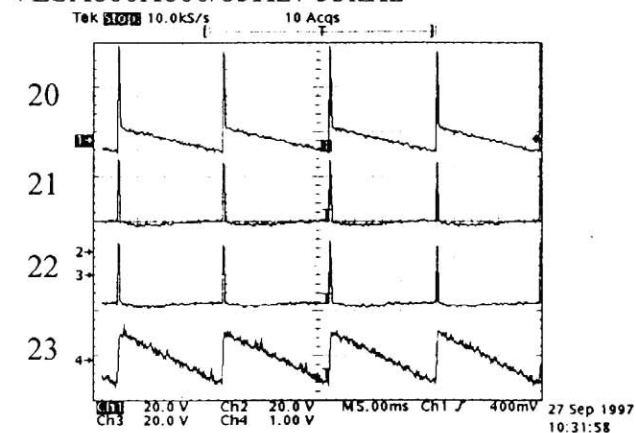
VESA800X600/75Hz / 48kHz



VESA800X600/85Hz / 53kHz



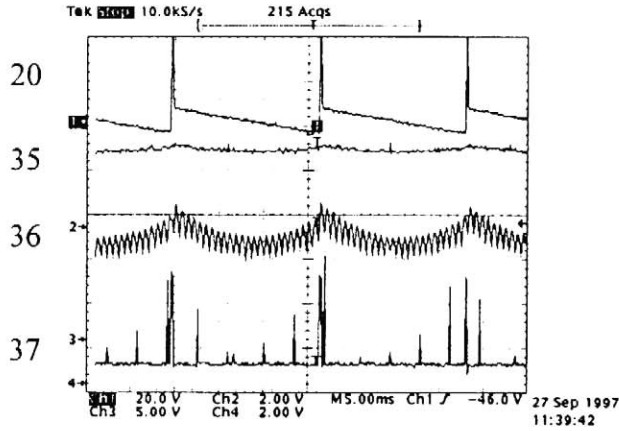
VESA800X600/85Hz / 53kHz



HORIZONTAL DEFLECTION DIODE MODULATION H-SIZE VARIOUS & DRIVE

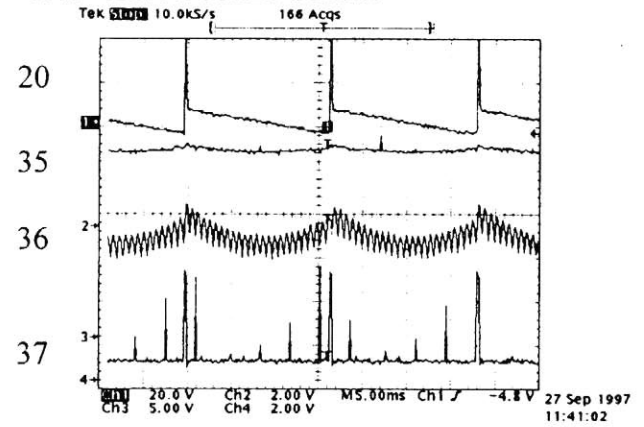
INPUT 110VAC

VGA640X480/60Hz / 31kHz

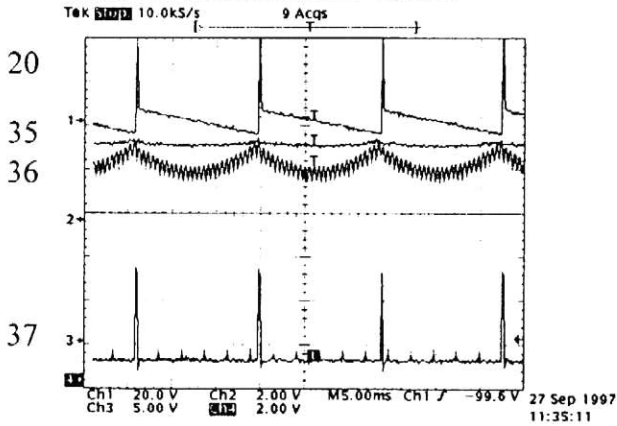


INPUT 240VAC

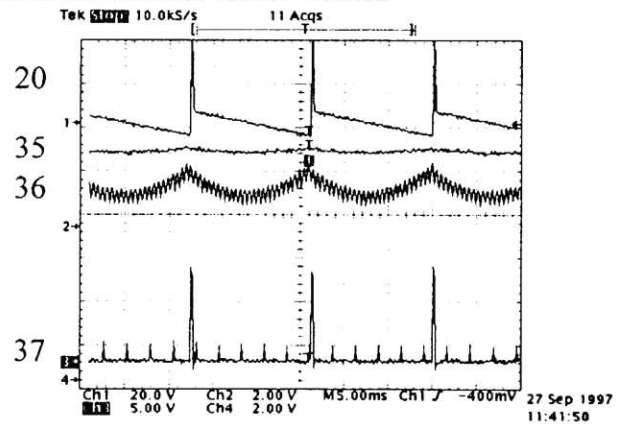
VGA640X480/60Hz / 31kHz



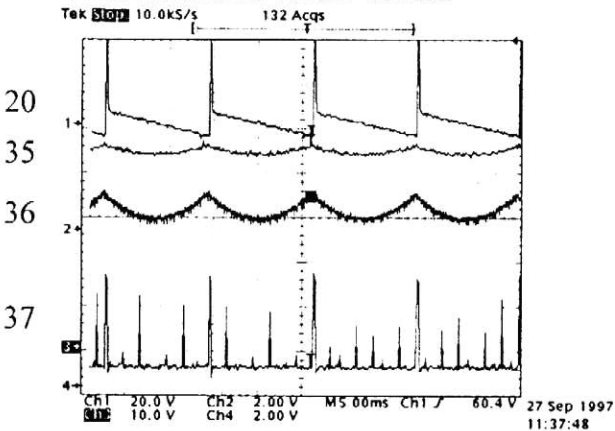
VESA800X600/75Hz / 48kHz



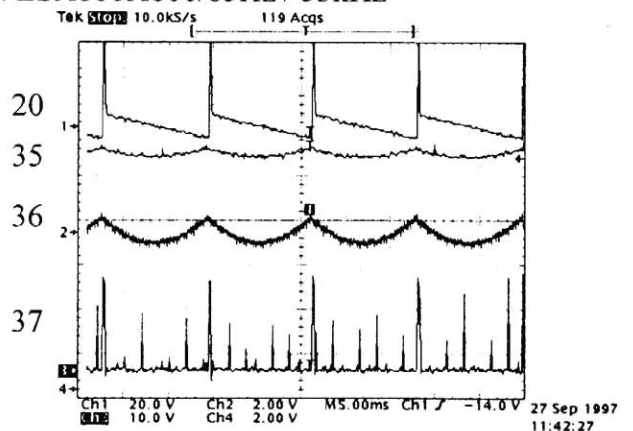
VESA800X600/75Hz / 48kHz



VESA800X600/85Hz / 53kHz



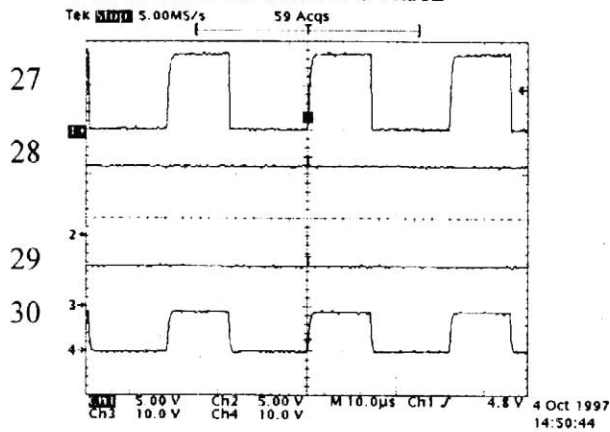
VESA800X600/85Hz / 53kHz



HORIZONTAL DEFLECTION WAVEFORM

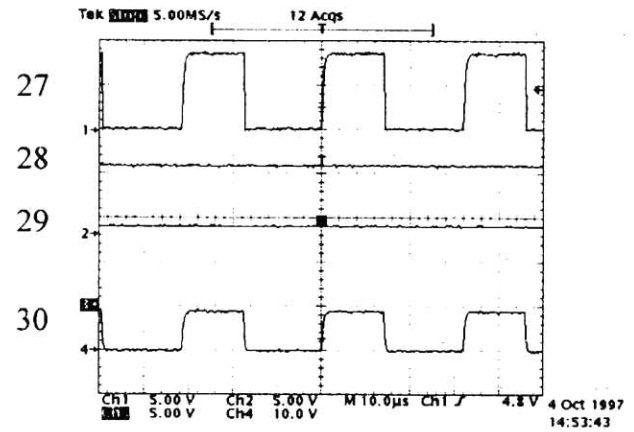
INPUT 110VAC

VGA640X480/60Hz / 31kHz

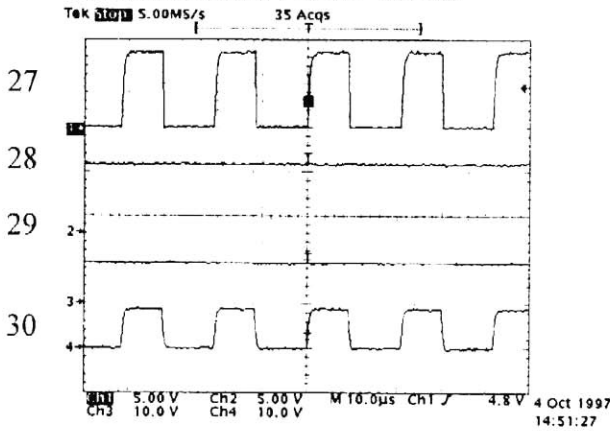


INPUT 240VAC

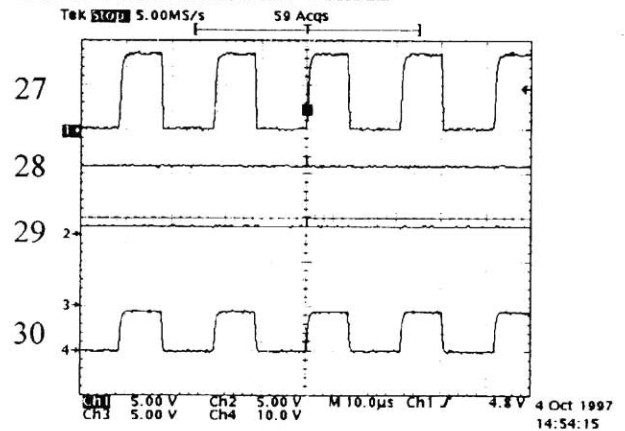
VGA640X480/60Hz / 31kHz



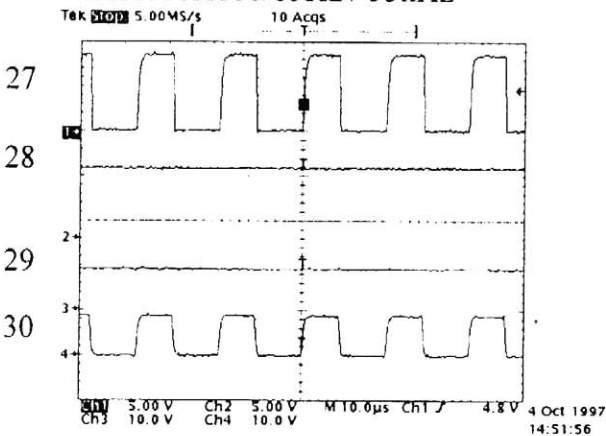
VESA800X600/75Hz / 48kHz



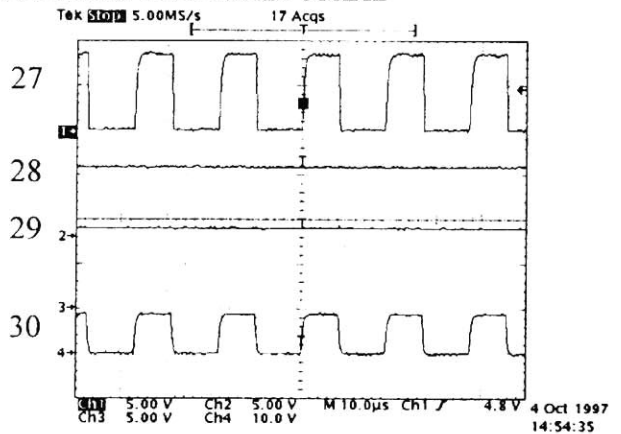
VESA800X600/75Hz / 48kHz



VESA800X600/85Hz / 53kHz



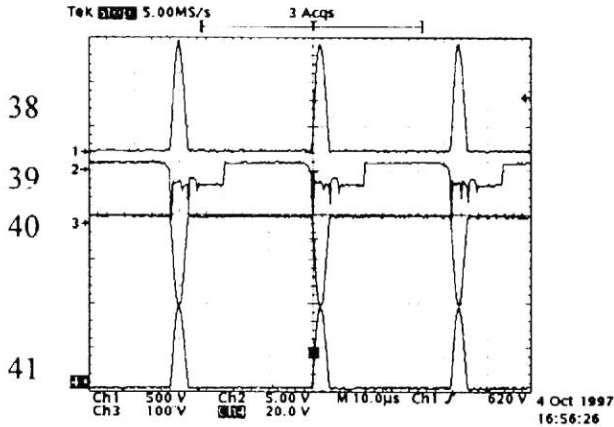
VESA800X600/85Hz / 53kHz



HORIZONTAL DEFLECTION DIODE MODULATION

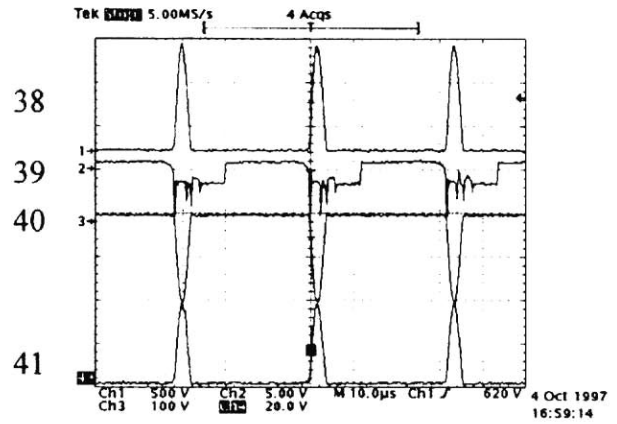
INPUT 110VAC

VGA640X480/60Hz / 31kHz

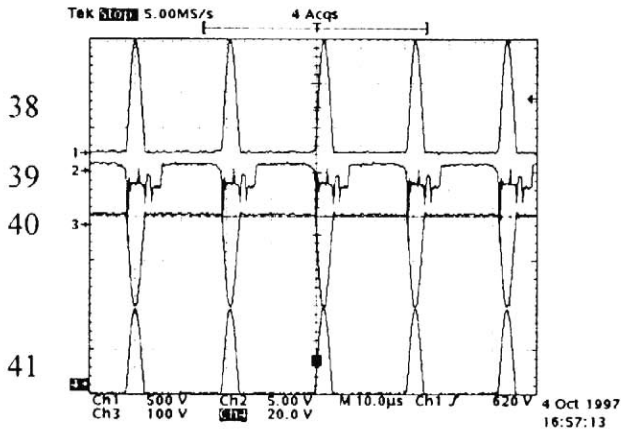


INPUT 240VAC

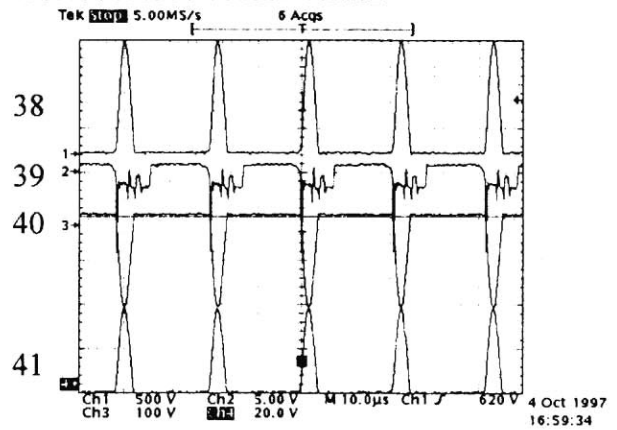
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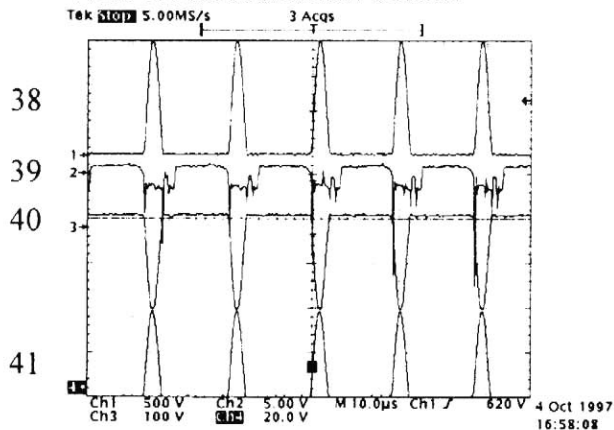
VESA800X600/75Hz / 48kHz



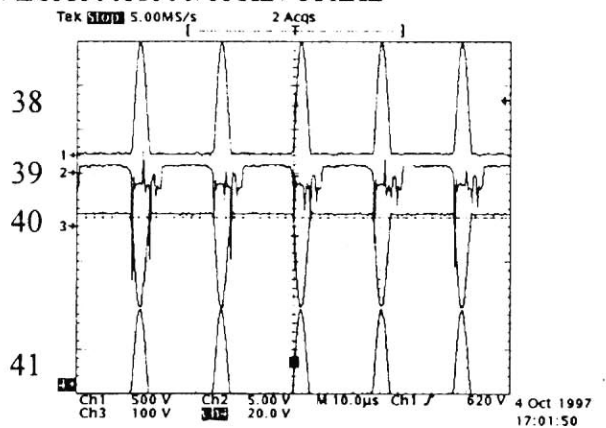
VESA800X600/75Hz / 48kHz



VESA800X600/85Hz / 53kHz



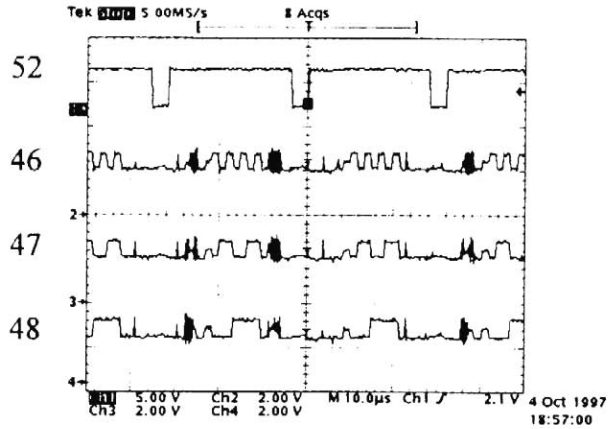
VESA800X600/85Hz / 53kHz



VIDEO WAVEFORM

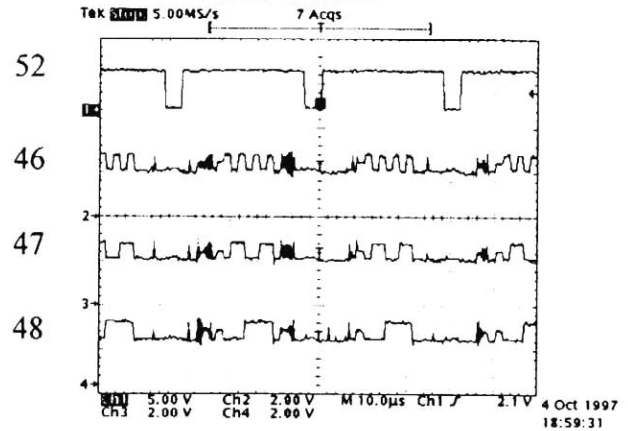
INPUT 110VAC

VGA640X480/60Hz / 31kHz

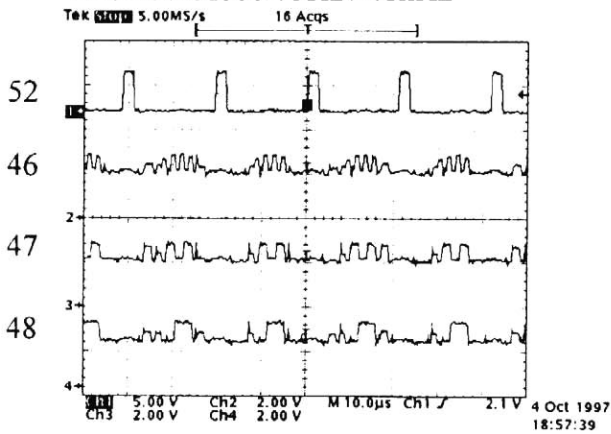


INPUT 240VAC

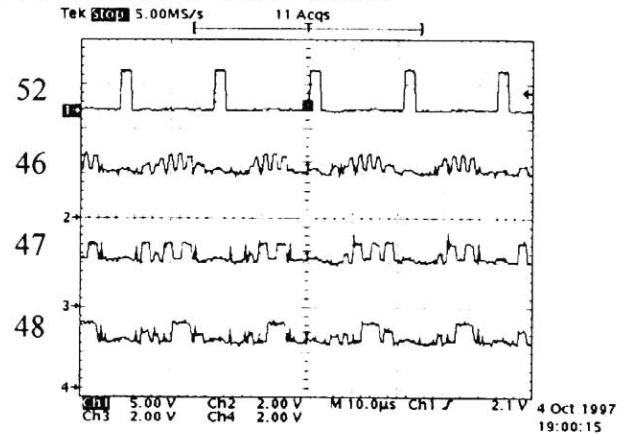
VGA640X480/60Hz / 31kHz



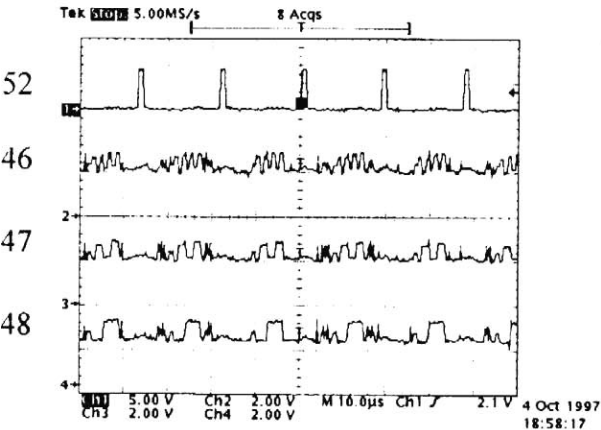
VESA800X600/75Hz / 48kHz



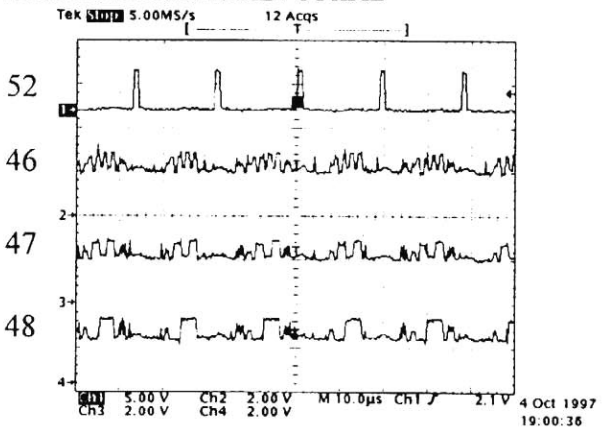
VESA800X600/75Hz / 48kHz



VESA800X600/85Hz / 53kHz



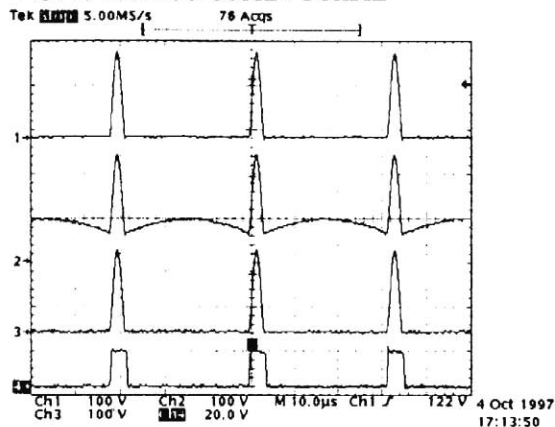
VESA800X600/85Hz / 53kHz



HORIZONTAL DEFLECTION DIODE MODULATION & BLANKING

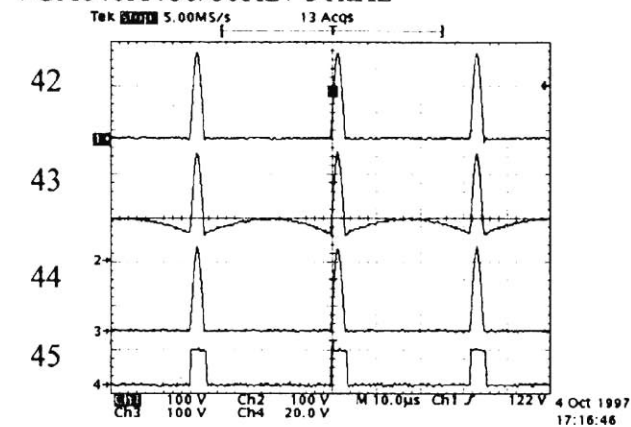
INPUT 110VAC

VGA640X480/60Hz / 31kHz



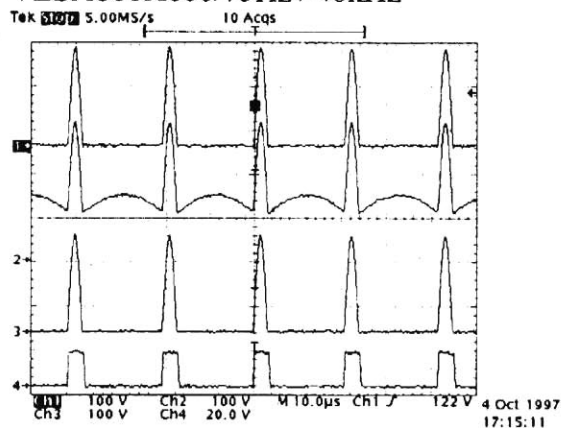
INPUT 240VAC

VGA640X480/60Hz / 31kHz



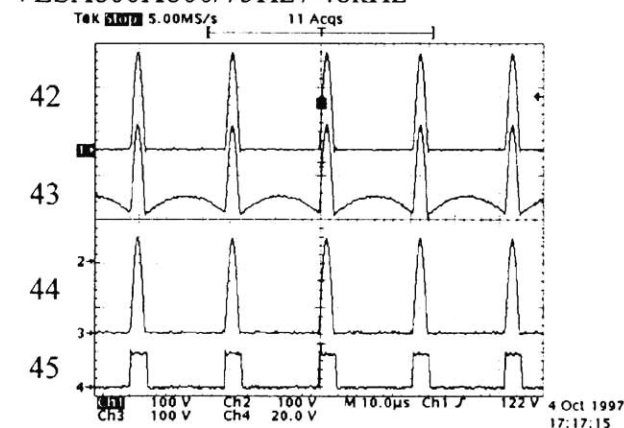
TEK00072

VESA800X600/75Hz / 48kHz



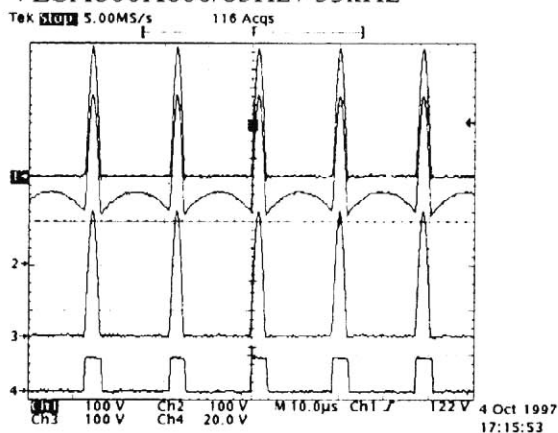
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VESA800X600/75Hz / 48kHz



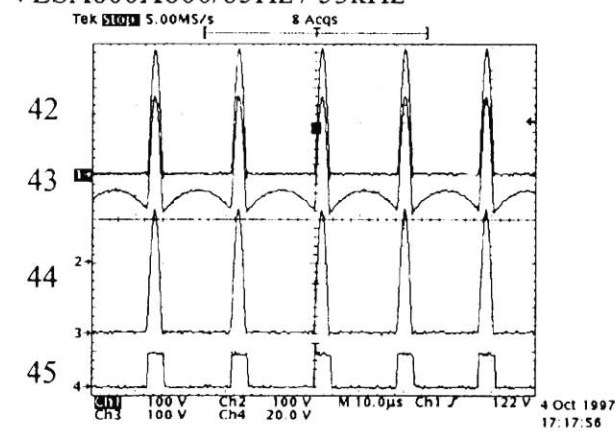
TEK00073

VESA800X600/85Hz / 53kHz



TEK00076

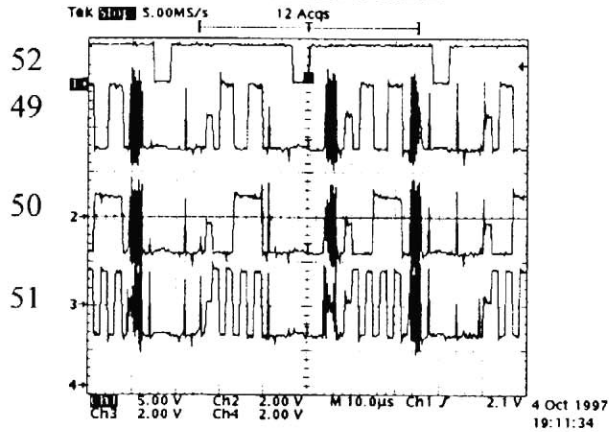
VESA800X600/85Hz / 53kHz



VIDEO WAVEFORM

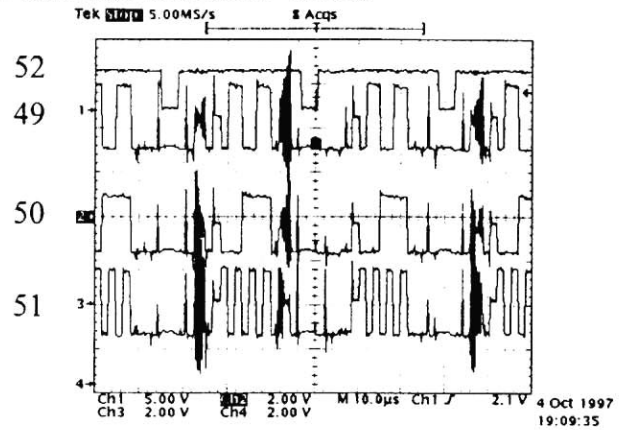
INPUT 110VAC

VGA640X480/60Hz / 31kHz

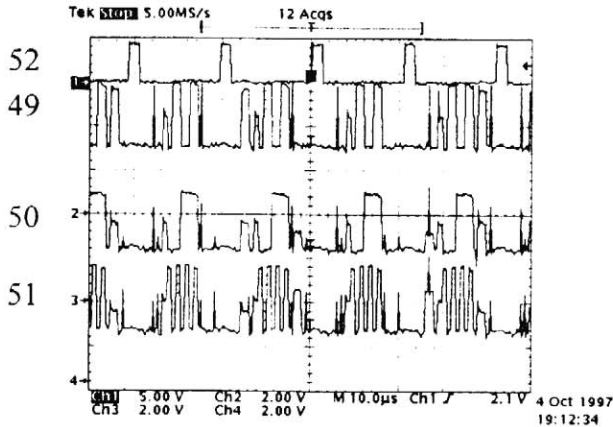


INPUT 240VAC

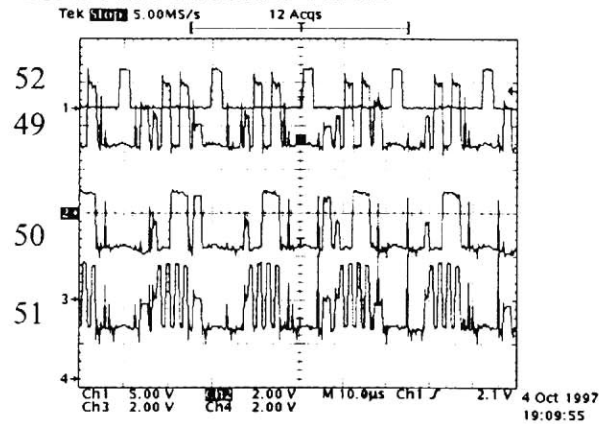
VGA640X480/60Hz / 31kHz



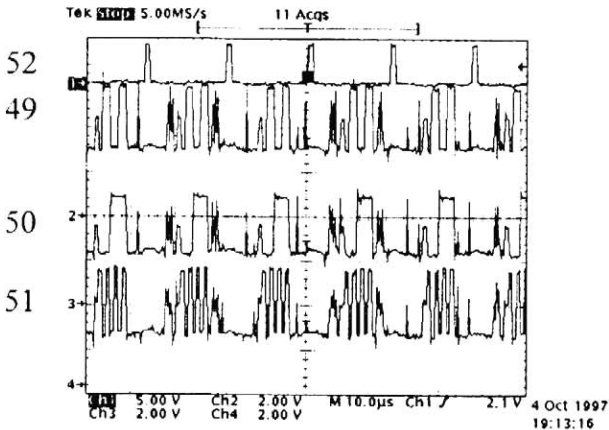
VESA800X600/75Hz / 48kHz



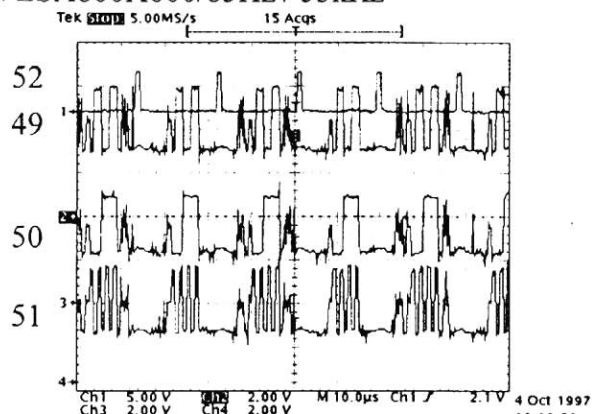
VESA800X600/75Hz / 48kHz



VESA800X600/85Hz / 53kHz



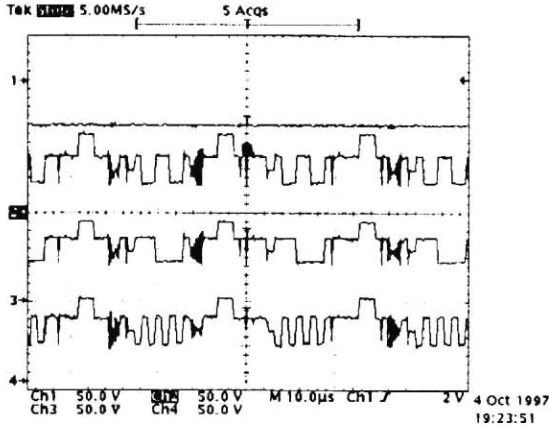
VESA800X600/85Hz / 53kHz



VIDEO WAVEFORM

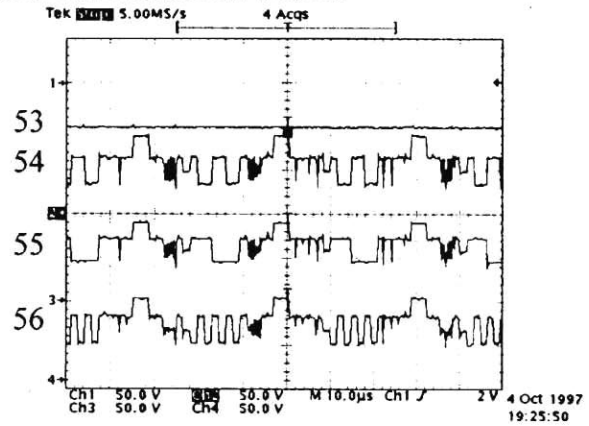
INPUT 110VAC

VGA640X480/60Hz / 31kHz

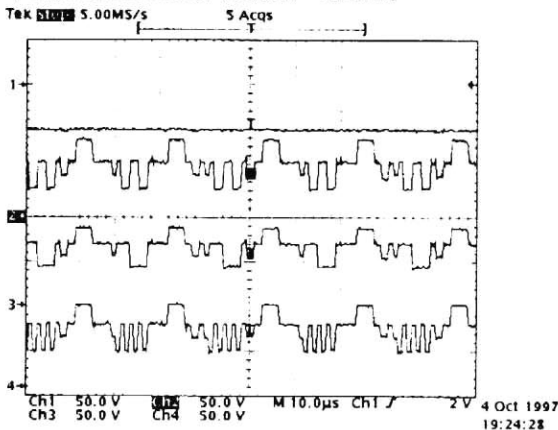


INPUT 240VAC

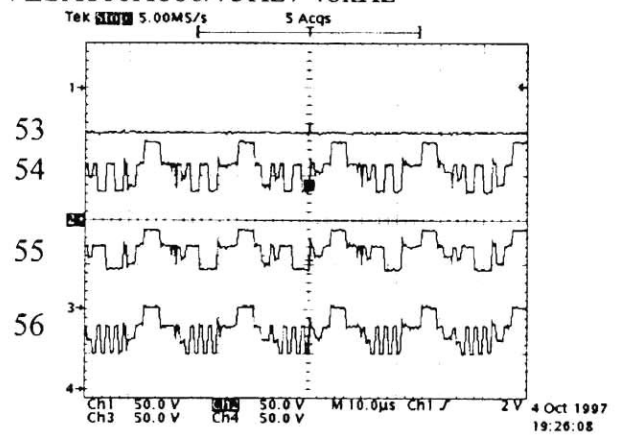
VGA640X480/60Hz / 31kHz



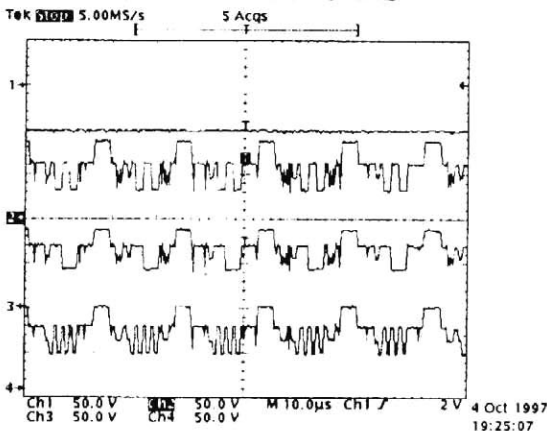
VESA800X600/75Hz / 48kHz



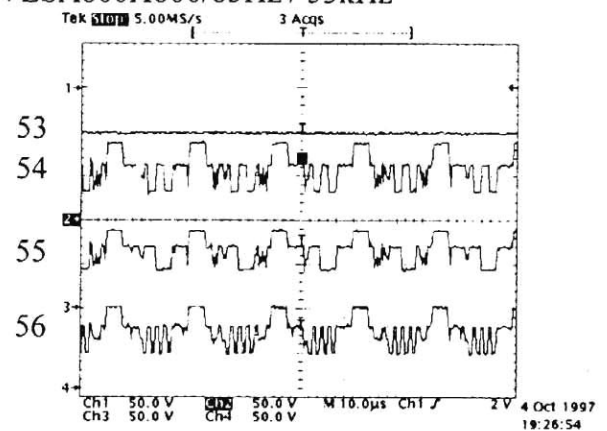
VESA800X600/75Hz / 48kHz



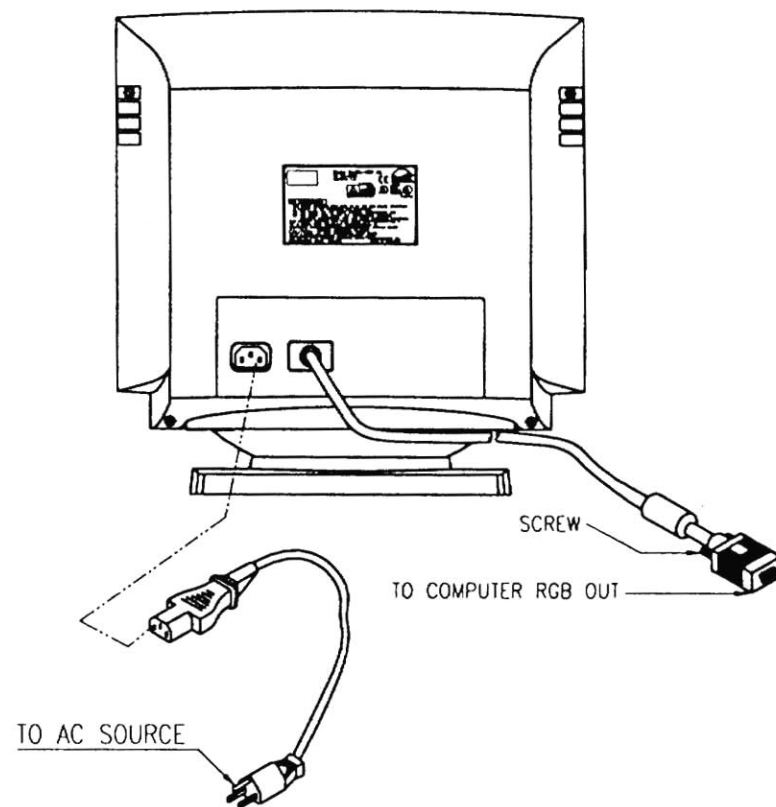
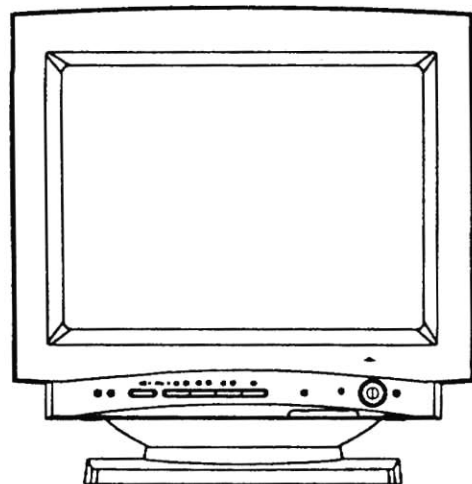
VESA800X600/85Hz / 53kHz



VESA800X600/85Hz / 53kHz



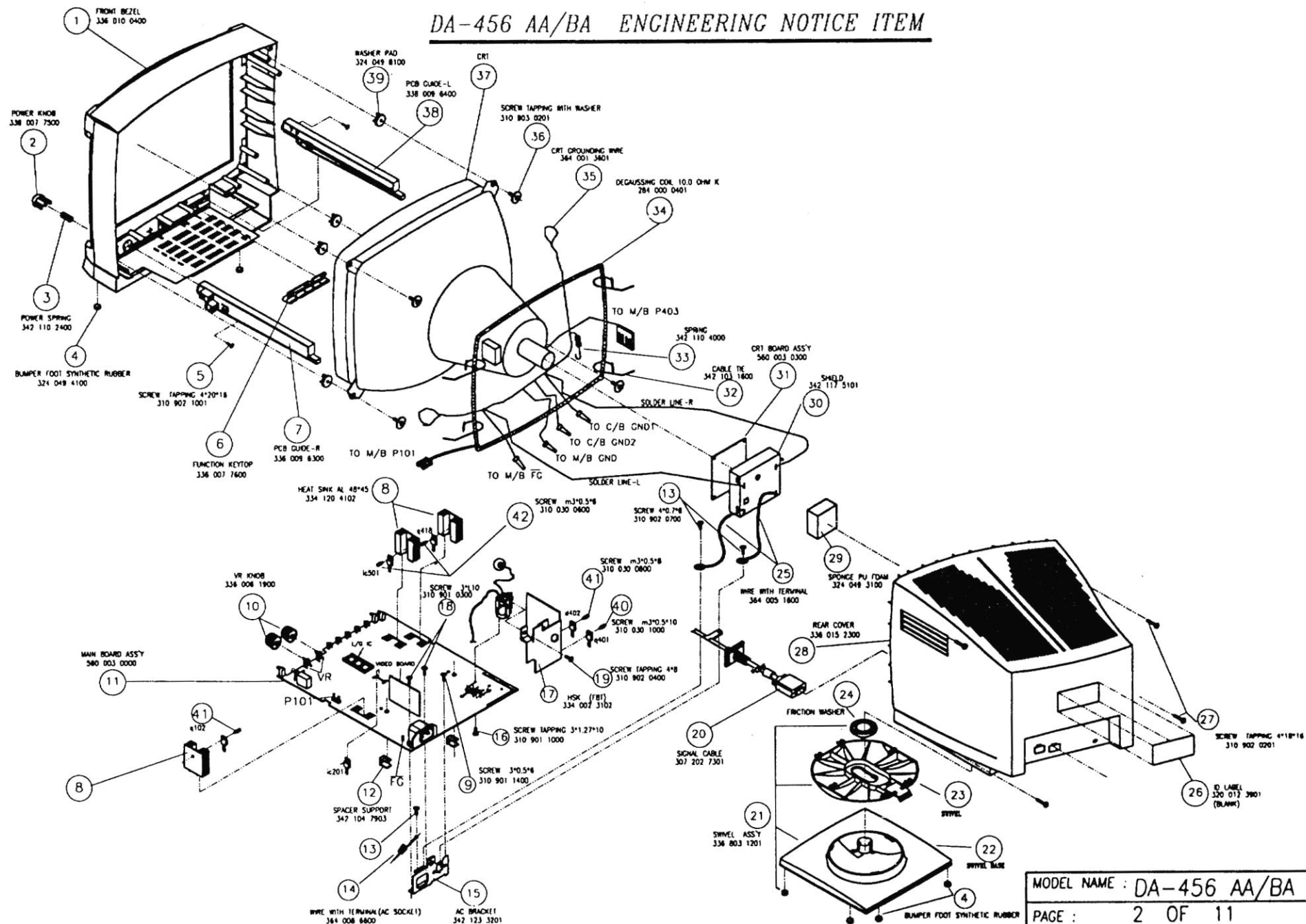
DA-456 AA/BA ENGINEERING NOTICE ITEM



MODE NAME : DA-456 AA/BA

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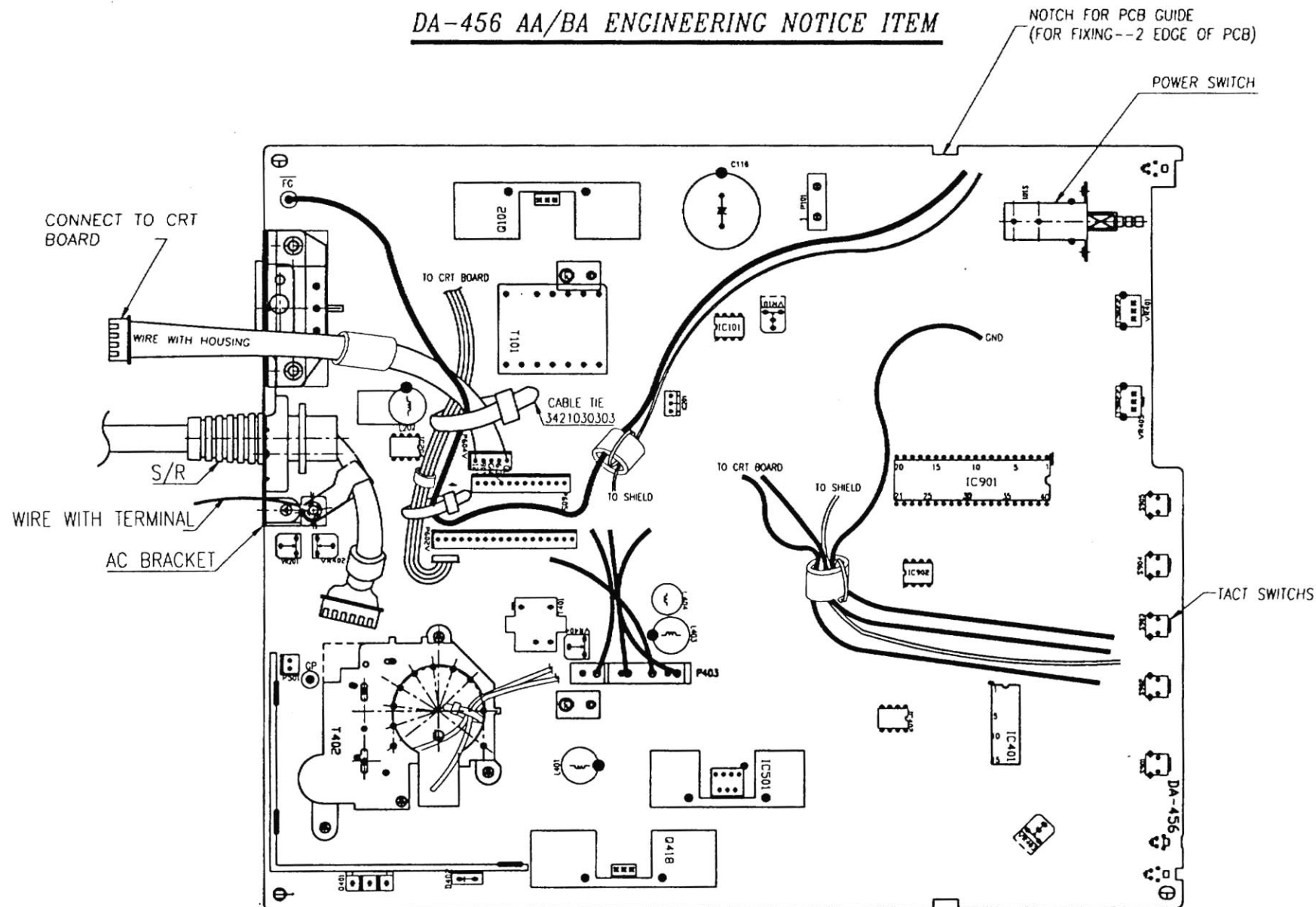
DA-456 AA/BA ENGINEERING NOTICE ITEM



MODEL NAME : DA-456 AA/BA

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DA-456 AA/BA ENGINEERING NOTICE ITEM



MODEL NAME : DA-456 AA/BA

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DA-456 BA ENGINEERING NOTICE ITEM

CABLE TIE -4PLS P/N. 3421031600

CANCEL WIRE P/N. 3640064703

CANCEL COIL P/N. 3640094000

DEGAUSSING COIL

CABLE TIE P/N. 3421030303

SPRING

CRI GROUNDING WIRE

WHITE TAPE

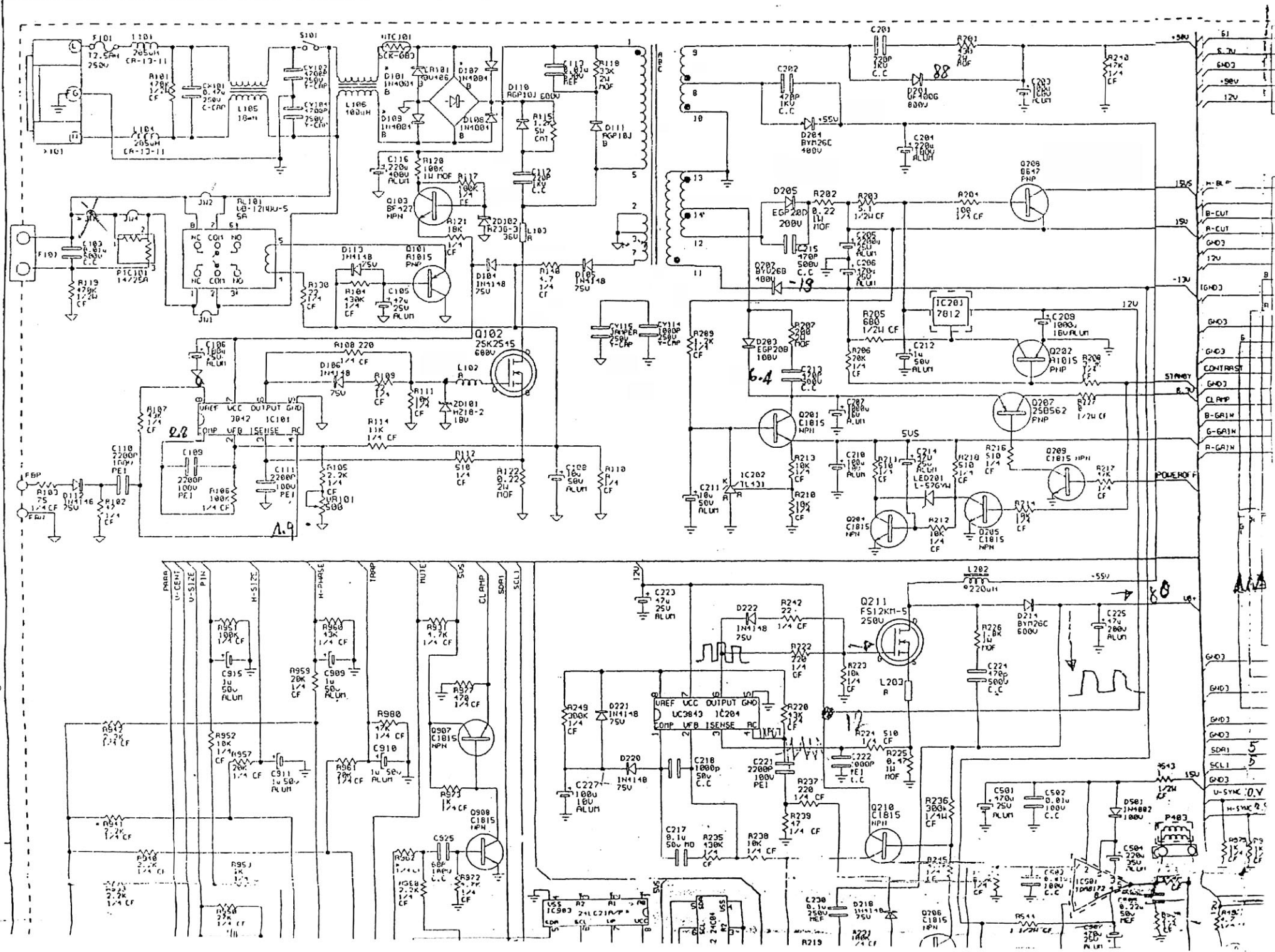
YELLOW TAPE

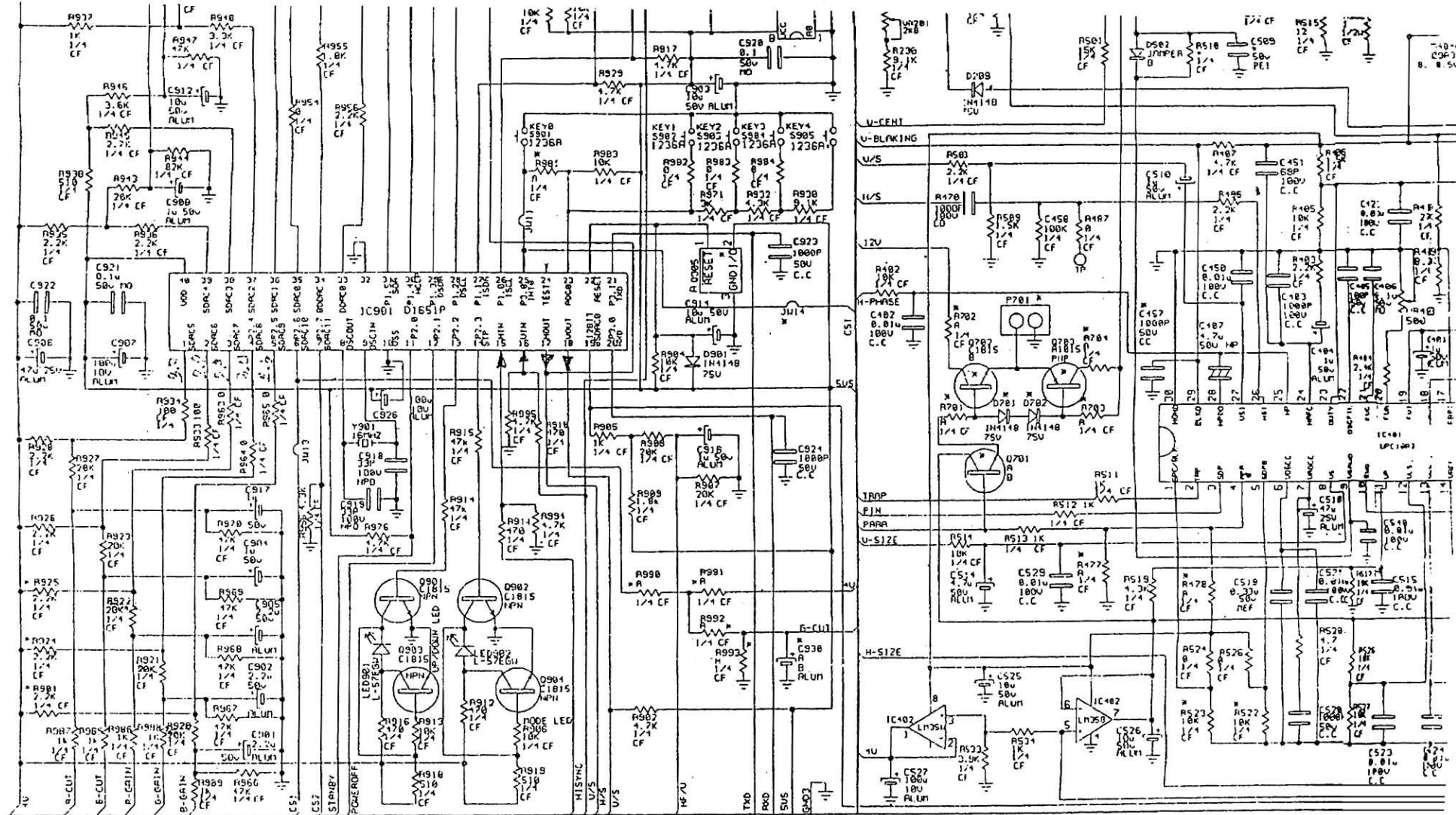
TO MAIN BOARD P404

MAIN BOARD P404

MODEL NAME : DA-456 AA/BA

PAGE : 6 OF 11

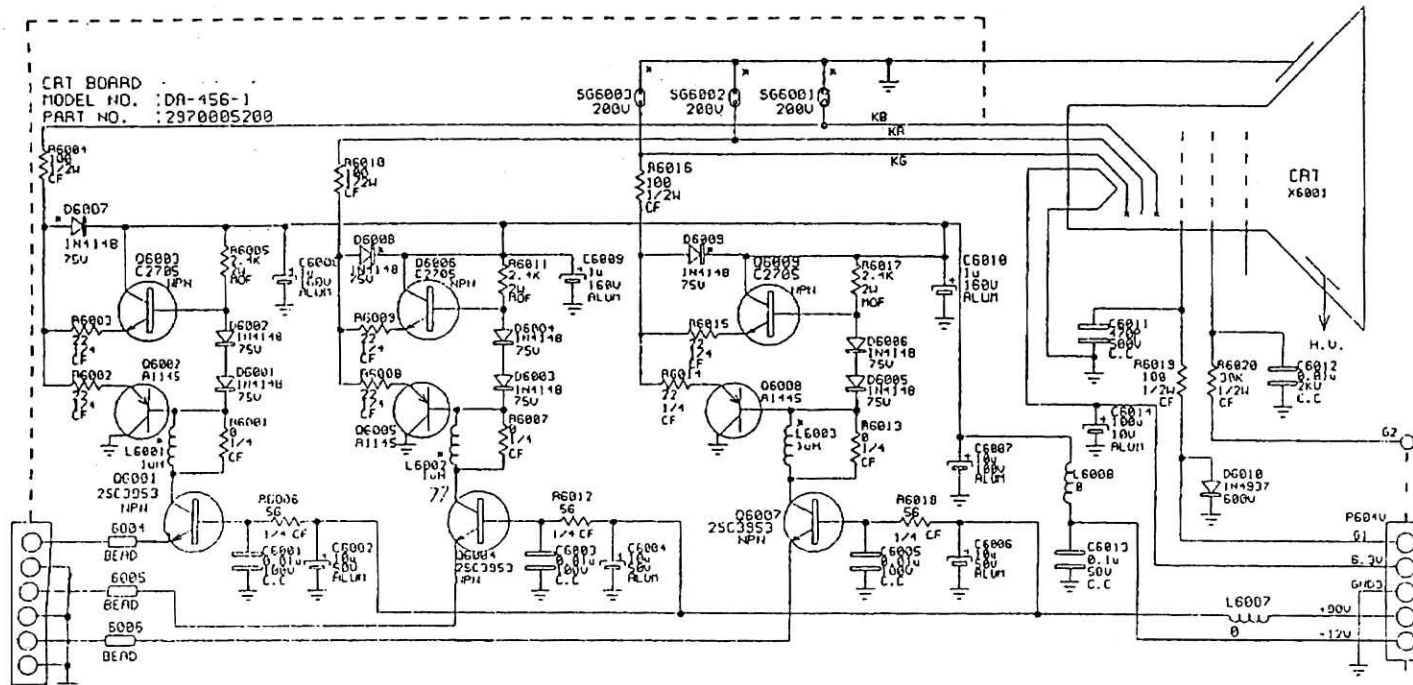




- NOTE:
1. THE UNIT OF RESISTANCE "OHM" IS OMITTED (K=1000 OHMS AND M=1MEG OHM).
 2. ALL RESISTORS ARE 1/4W UNLESS OTHERWISE NOTED.
 3. THE UNIT OF CAPACITANCE "UF" IS OMITTED UNLESS OTHERWISE NOTED "PF".
 4. THE MARK "X" IS NOT INSERTING PARTS.

FOR AUTO ALIGNMENT

CRT BOARD
MODEL NO. : DA-456-1
PART NO. : 2970005200



REVISIONS				
E/PCN	REV	DESCRIPTION	DATE	APPROVED
PH-57816-1	0000	N.P.S	06-16-97	LOTUS
PH29607401	0	N.P.S	07-16-97	LOTUS
PH29607402	0	N.P.S	07-22-97	LOTUS

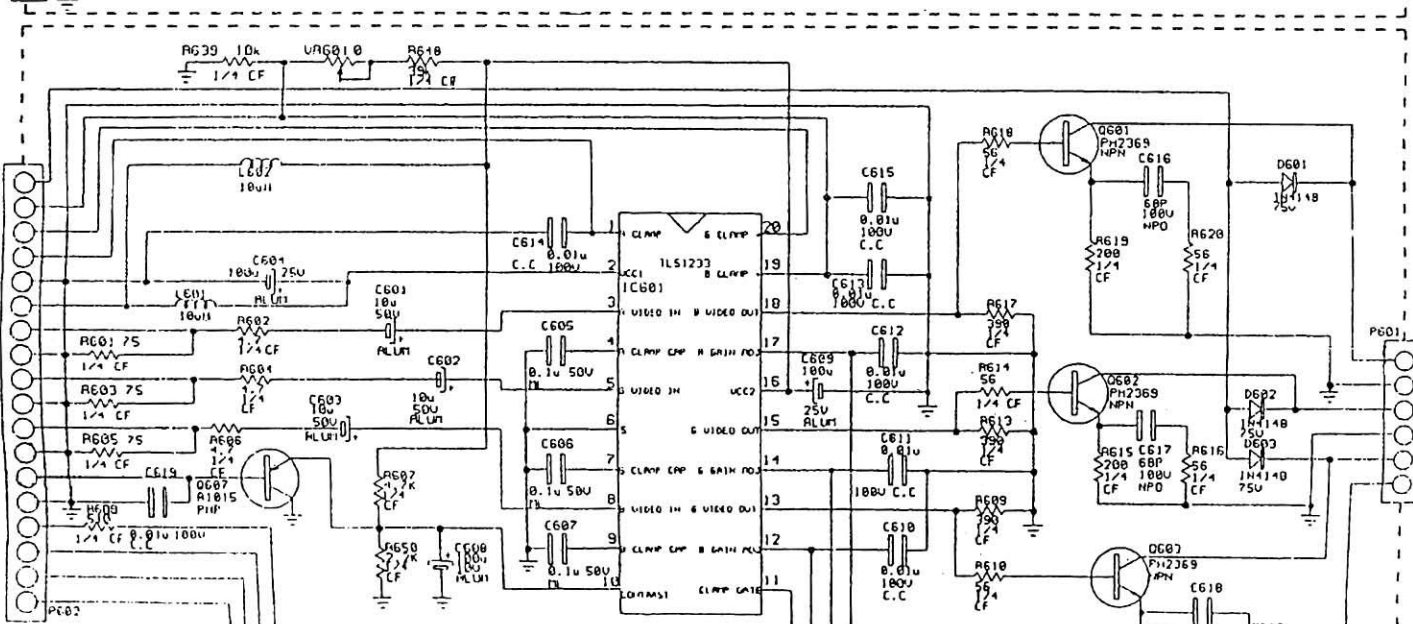
REMARKS: VERSION CONTROL

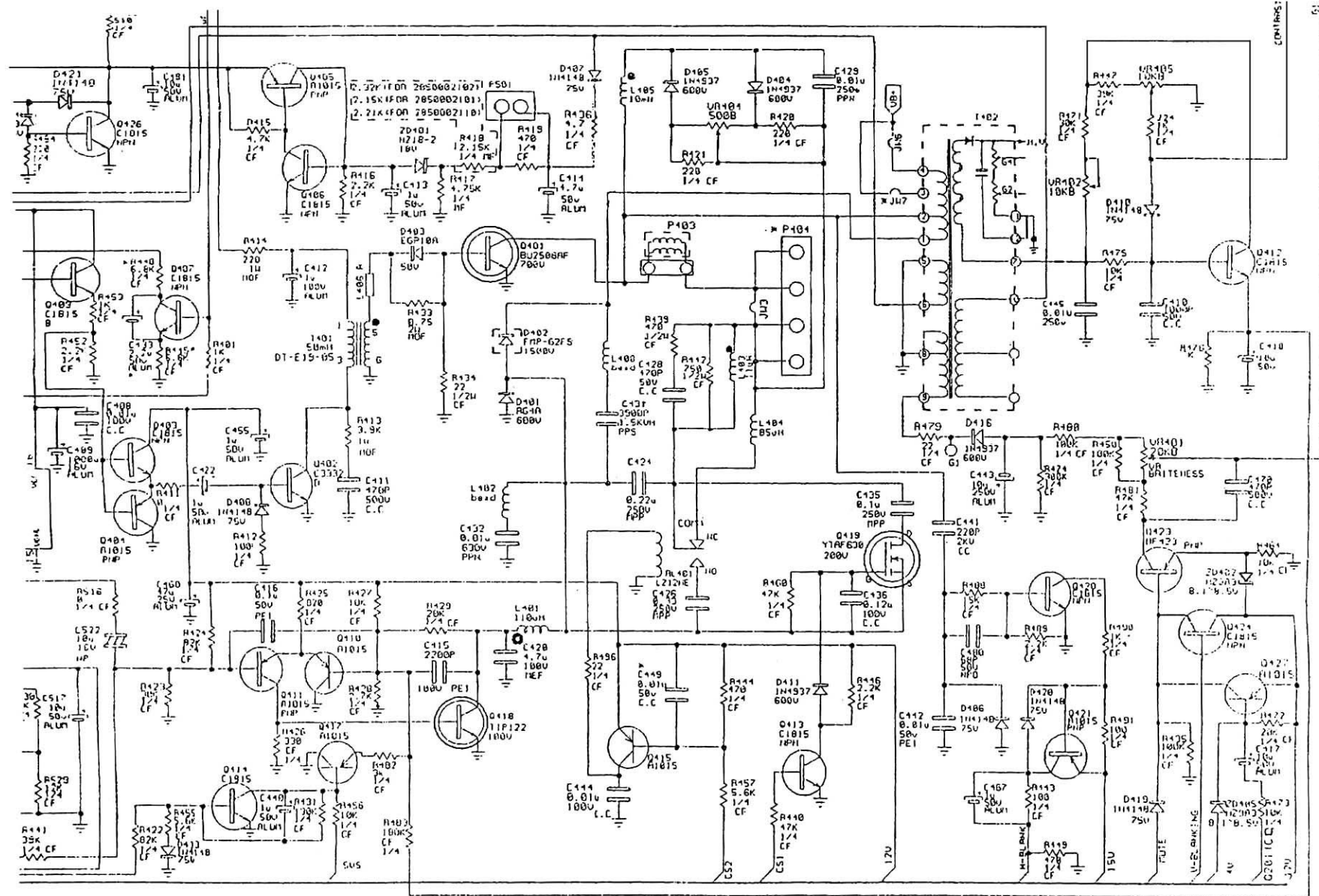
CRU VENDOR	HITACHI	CPT	10SH12A	SAMSUNG
COMPONENTS				
A439	470 1/2W			
C428	1000P 500V C.C			
A442	750 1/2W			

EBI VENDOR	MURATA	DAISUSHITA	LCE
COMPONENTS			
A418	2K 1/4W	2.2K 1/4W	2.2K 1/4W

MODEL	DA-456	DA-456A	DA-556	DA-556A
COMPONENTS				
J103	INSERT			
J106	INSERT			
J107			INSERT	
P404		INSERT		
P403	6PIN		4PIN	
C424	0.22/250V		0.33/250V	
L403	11uH		6.5uH	
L424	245uH		47uH	
C431	3500P/2KV		4700P/2KV	
A414	470/1W		330/1W	
A433	0.75/2W		0.55/2W	
A553	1K 1/4W		2.2K 1/4W	
A551	100K 1/4W		20K 1/4W	
A456	10K 1/4W		7.5K 1/4W	
A482	13K 1/4W		10K 1/4W	
A423	33K 1/4W		30K 1/4W	
A441	47K 1/4W		56K 1/4W	
J104	INSERT			
J109	INSERT			
J110	INSERT			

PIC101	J45	J46	J47	J48
2PIN		INSERT		
2PIN	INSERT			
14 PIN		INSERT		





ISSUED	APPROVED	APPROVALS	DATE	MODEL
		DESIGNED BY: [Signature]	05/11/56	CR-455
		CHECKED BY: [Signature]		
		FILE NAME: 145610-0.001		
		Scale		
		SHEET		
		UNIT: mm		
		2ND ANGLE PROJECTION		
		DO NOT SCALE DIMENSIONS		