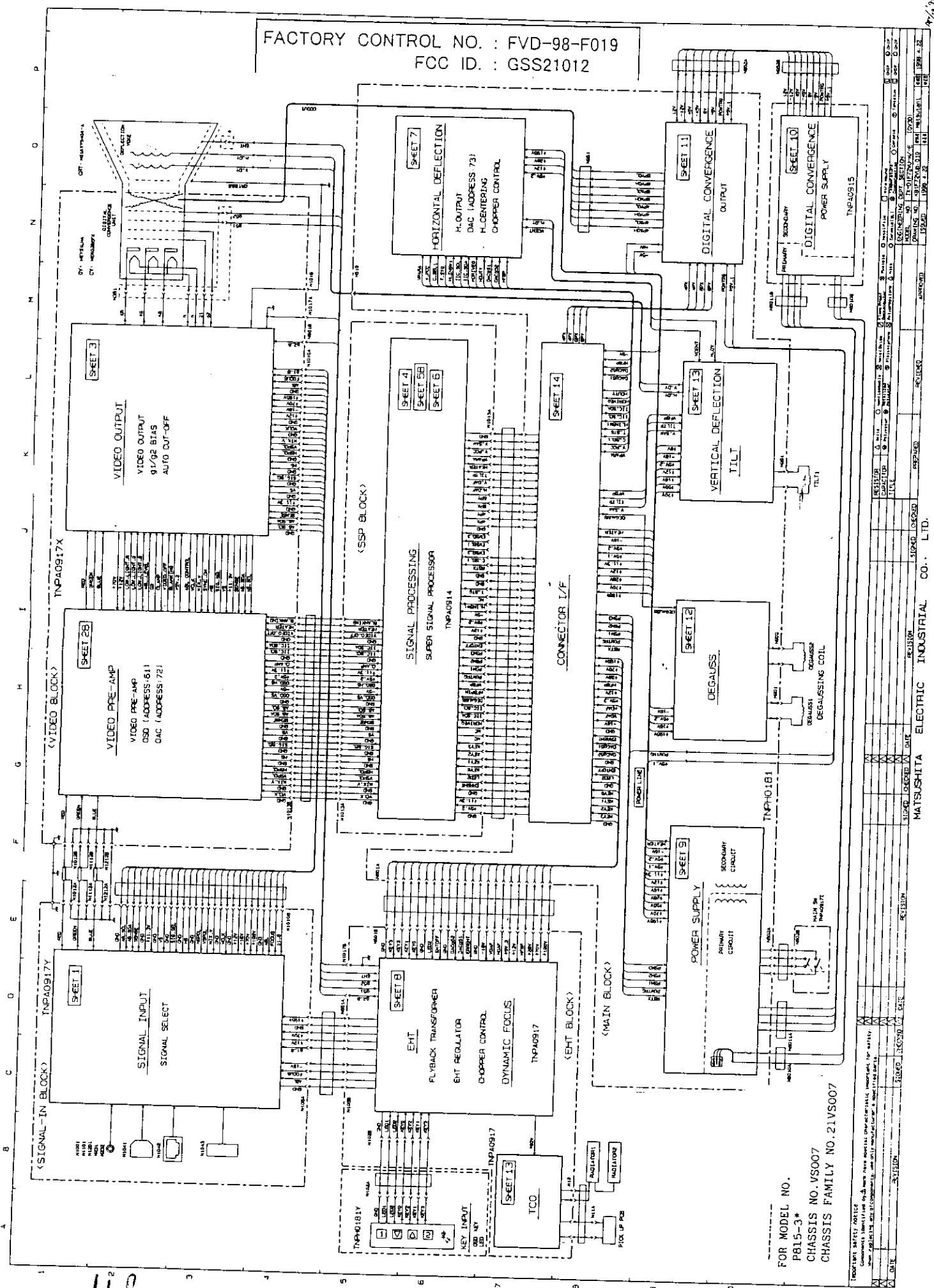


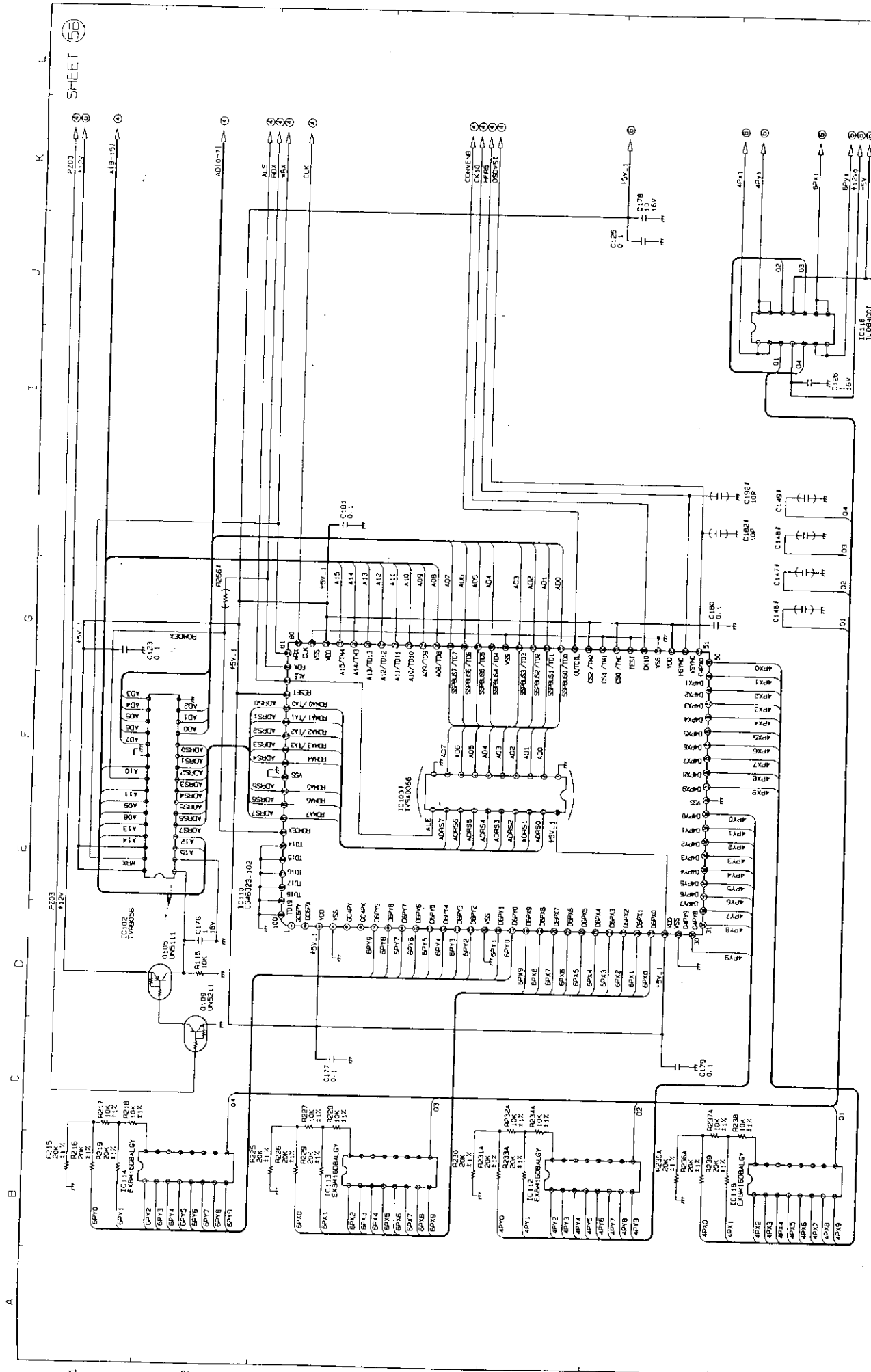
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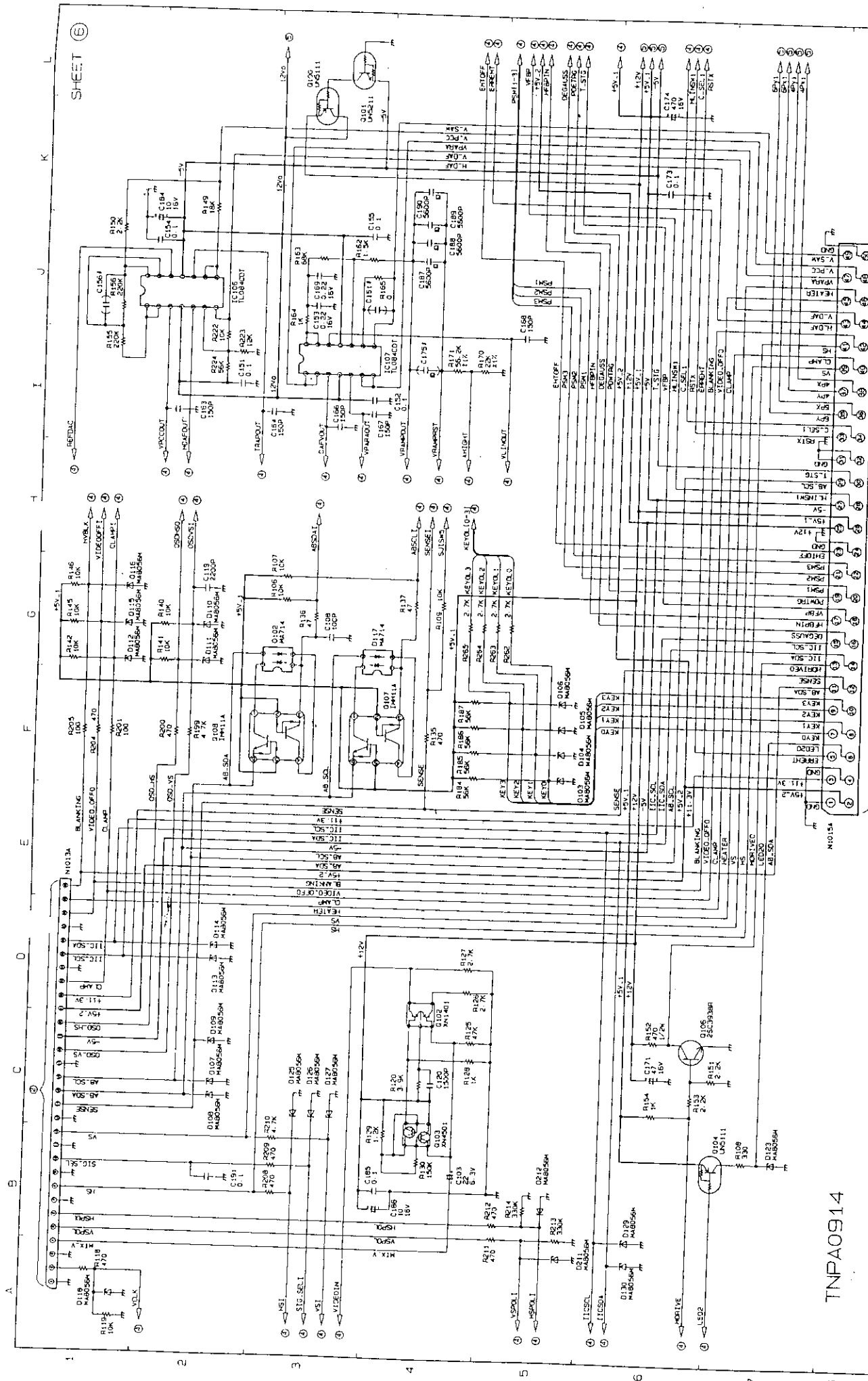
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MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.



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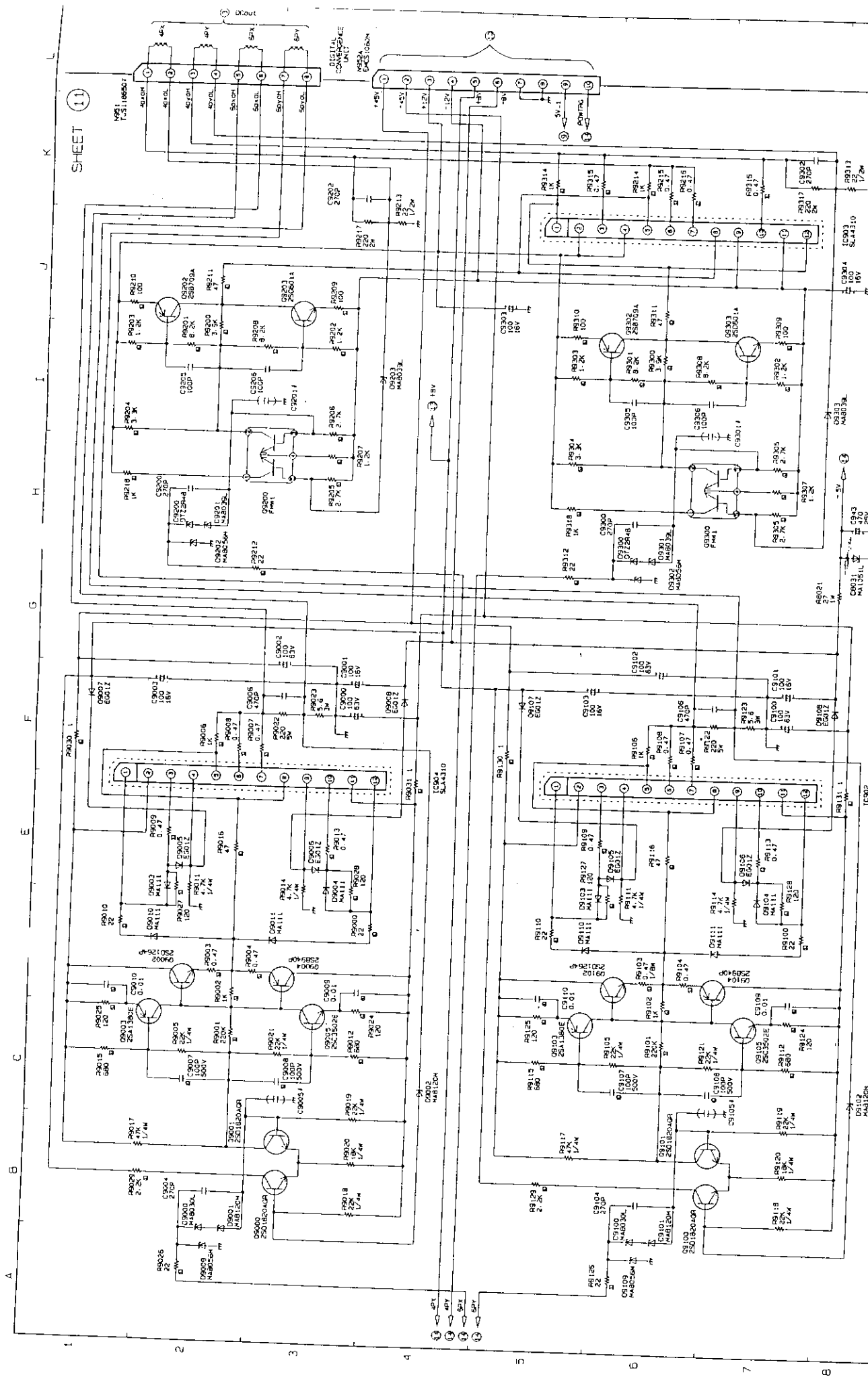
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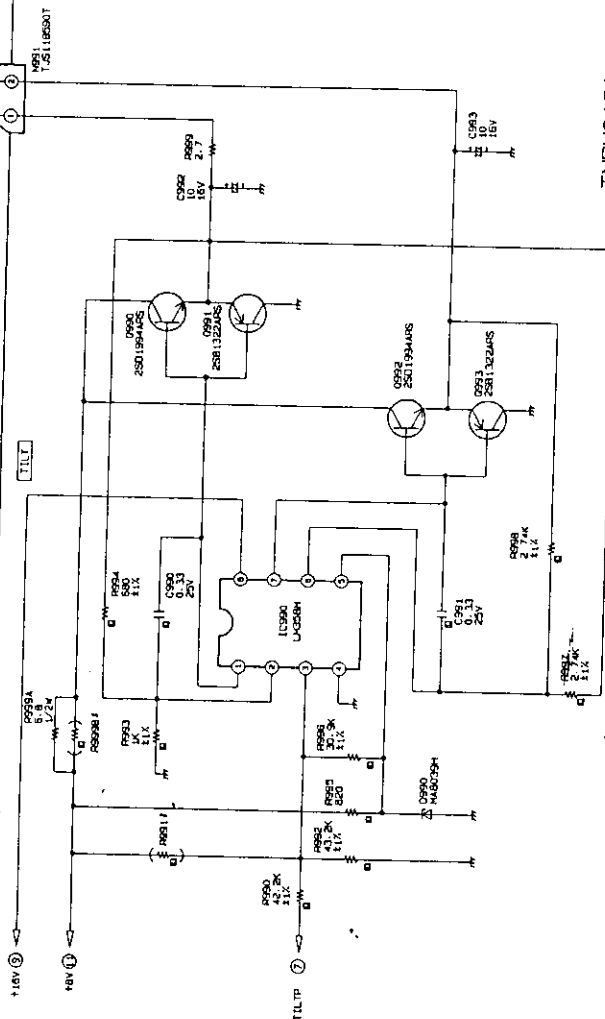
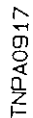
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MATSUBITA ELECTRIC INDUSTRIAL CO., LTD.
 T. Shimura
 T. Kinoshita
 1984.02
 1987.2.21
 1991.2.11



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2) RESERVATION TIMING

		MODE 2	MODE 3	MODE 4	MODE 5
		VGA (Industry Standard) 640×480 @60Hz	VESA Standard 640×480 @75Hz	VESA Standard 1024×768 @75Hz	MAC 1152×870 @75Hz
DOT CLOCK		25.1750MHz	31.5000MHz	78.7500MHz	100.000MHz
H O R I Z	fH	31.469kHz	37.500kHz	60.023kHz	68.681kHz
	A-Period	31.778 us(800 dots)	26.667 us(840 dots)	16.660 us(1312 dots)	14.560 us(1456 dots)
	B-Blanking	6.356 us(160 dots)	6.350 us(200 dots)	3.657 us(288 dots)	3.040 us(304 dots)
	C-Sync width	3.813 us(96 dots)	2.032 us(64 dots)	1.219 us(96 dots)	1.280 us(128 dots)
	D-Back porch	1.907 us(48 dots)	3.810 us(120 dots)	2.235 us(176 dots)	1.440 us(144 dots)
	E-Active	25.422 us(640 dots)	20.317 us(640 dots)	13.003 us(1024 dots)	11.520 us(1152 dots)
	F-Front porch	0.636 us(16 dots)	0.508 us(16 dots)	0.203 us(16 dots)	0.320 us(32 dots)
V E R T	fV	59.940Hz	75.000Hz	75.029Hz	75.061Hz
	A-Period	16.683 ms(525 lines)	13.333 ms(500 lines)	13.328 ms(800 lines)	13.322 ms(915 lines)
	B-Blanking	1.430 ms(45 lines)	0.534 ms(20 lines)	0.533 ms(32 lines)	0.655 ms(45 lines)
	C-Sync width	0.064 ms(2 lines)	0.080 ms(3 lines)	0.050 ms(3 lines)	0.044 ms(3 lines)
	D-Back porch	1.049 ms(33 lines)	0.427 ms(16 lines)	0.466 ms(28 lines)	0.568 ms(39 lines)
	E-Active	15.253 ms(480 lines)	12.800 ms(480 lines)	12.795 ms(768 lines)	12.667 ms(870 lines)
	F-Front porch	0.318 ms(10 lines)	0.027 ms(1 lines)	0.017 ms(1 lines)	0.044 ms(3 lines)
Sync polarity (H/V)		Negative / Negative	Negative / Negative	Positive / Positive	Negative / Negative

		MODE 6	MODE 7	MODE 8	MODE 9
		VESA Standard 1280×1024 @75Hz	VESA Standard 1280×1024 @85Hz	1600×1200 @85Hz	1600×1200 @90Hz
DOT CLOCK		135.000MHz	157.500MHz	229.500MHz	243.000MHz
H O R I Z	fH	79.976kHz	91.146kHz	106.250kHz	112.500kHz
	A-Period	12.504 us(1688 dots)	10.971 us(1728 dots)	9.412 us(2160 dots)	8.889 us(2160 dots)
	B-Blanking	3.022 us(408 dots)	2.844 us(448 dots)	2.440 us(560 dots)	2.304 us(560 dots)
	C-Sync width	1.067 us(144 dots)	1.016 us(160 dots)	0.837 us(192 dots)	0.790 us(192 dots)
	D-Back porch	1.837 us(248 dots)	1.422 us(224 dots)	1.325 us(304 dots)	1.251 us(304 dots)
	E-Active	9.481 us(1280 dots)	8.127 us(1280 dots)	6.972 us(1600 dots)	6.584 us(1600 dots)
	F-Front porch	0.119 us(16 dots)	0.406 us(64 dots)	0.279 us(64 dots)	0.263 us(64 dots)
V E R T	fV	75.025Hz	85.024Hz	85.000Hz	90.000Hz
	A-Period	13.329 ms(1066 lines)	11.761 ms(1072 lines)	11.765 ms(1250 lines)	11.111 ms(1250 lines)
	B-Blanking	0.525 ms(42 lines)	0.527 ms(48 lines)	0.471 ms(50 lines)	0.445 ms(50 lines)
	C-Sync width	0.038 ms(3 lines)	0.033 ms(3 lines)	0.028 ms(3 lines)	0.027 ms(3 lines)
	D-Back porch	0.475 ms(38 lines)	0.483 ms(44 lines)	0.433 ms(46 lines)	0.409 ms(46 lines)
	E-Active	12.804 ms(1024 lines)	11.235 ms(1024 lines)	11.294 ms(1200 lines)	10.667 ms(1200 lines)
	F-Front porch	0.013 ms(1 lines)	0.011 ms(1 lines)	0.009 ms(1 lines)	0.009 ms(1 lines)
Sync polarity (H/V)		Positive / Positive	Positive / Positive	Positive / Positive	Positive / Positive

1) PRESET TIMING

		MODE 1
		VESA Proposal 1600×1200 @75Hz
DOT CLOCK		202.500MHz
H O R I Z	fH	93.750kHz
	A-Period	10.667 us(2160 dots)
	B-Blanking	2.765 us(560 dots)
	C-Sync width	0.948 us(192 dots)
	D-Back porch	1.501 us(304 dots)
	E-Active	7.901 us(1600 dots)
	F-Front porch	0.316 us(64 dots)
V E R T	fV	75.000Hz
	A-Period	13.333 ms(1250 lines)
	B-Blanking	0.533 ms(50 lines)
	C-Sync width	0.032 ms(3 lines)
	D-Back porch	0.491 ms(46 lines)
	E-Active	12.800 ms(1200 lines)