

SPECIFICATIONS

1. PICTURE TUBE

Size	: 15 inch (Flat Square Tube)
Gun	: In-line
Deflection Angle	: 90°
Neck Diameter	: 29.1mm
Phosphor	: P22
Dot Pitch	: 0.28mm
Low Radiation	: MPR-II or TCO-95

2. SIGNAL

2-1. Horizontal & Vertical Sync

- 1) Input Voltage Level : Low=0~0.4V, High=3.0~5.5V
- 2) Sync Polarity : Positive or Negative

2-2. Video Input Signal

- 1) Voltage Level : 0~0.7Vp-p
 - a) Color 0, 0 : 0Vp-p
 - b) Color 7, 0 : 0.467Vp-p
 - c) Color 15, 0 : 0.7Vp-p
- 2) Input Impedance : 75 Ω
- 3) Video Color : R, G, B Analog
- 4) Signal Format : Refer to the Timing Chart

2-3. Signal Connector

15-pin D-Sub Connector

2-4. Scanning Frequency

- | | |
|------------|-------------|
| Horizontal | : 30~70 kHz |
| Vertical | : 50~120 Hz |

3. POWER SUPPLY

3-1. Power Range

AC 90V~264V (Free Voltage), 50/60Hz, 1.5A Max.

3-2. Power Consumption

MODE	H/V SYNC	POWER CONSUMPTION	LED COLOR
NORMAL (ON)	ON/ON	less than 90W	GREEN
STAND-BY	OFF/ON	less than 15W	ORANGE
SUSPEND	ON/OFF	less than 15W	
OFF	OFF/OFF	less than 8W	ORANGE

4. DISPLAY AREA

- 4-1. Active Video Area : 270 x 200mm (10.63" x 7.87")
(Available for Full Screen)
- 4-2. Display Color : Full Colors
- 4-3. Display Resolution : 1280 x 1024 / 60Hz
(Non-Interlace)
- 4-4. Video Bandwidth : 110MHz

5. ENVIRONMENT

- 5-1. Operating Temperature: 10°C~35°C (50°F~95°F)
(Ambient)
- 5-2. Relative Humidity : 8%~80%
(Non-condensing)
- 5-3. Altitude : 10,000 ft

6. DIMENSIONS (with TILT/SWIVEL)

Width	: 360.0mm (14.17")
Depth	: 390.0mm (15.35")
Height	: 328.0mm (14.88")

7. WEIGHT (with TILT/SWIVEL)

Net Weight	: 13.5kg (28.88 lbs)
Gross Weight	: 15.2kg (33.07 lbs)

REPLACEMENT PARTS LIST

CAUTION: BEFORE REPLACING ANY OF THESE COMPONENTS,
READ CAREFULLY THE **SAFETY PRECAUTIONS** IN THIS MANUAL.

* NOTE : **S** SAFETY Mark
AL ALTERNATIVE PARTS

MODEL: StudioWorks 57i				DATE: 1997 . 5. 15.	
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	REMARK
MAIN BOARD					
CAPACITORS					
		C401	0CC2200K405	CAPACITOR, 22P 50V J SL TP	
		C402	0CC2200K405	CAPACITOR, 22P 50V J SL TP	
		C404	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C405	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C406	0CE4766F618	CAPACITOR, 47U SMS 16V M FM5 TP5	
		C407	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C408	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C409	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C410	0CH4221K406	CAPACITOR, CHIP, CERAMIC M/L TC 220P 50V J SL 2.0X1.25	
		C411	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C412	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C413	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C415	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C416	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C417	0CH4221K406	CAPACITOR, CHIP, CERAMIC M/L TC 220P 50V J SL 2.0X1.25	
		C418	0CH4221K406	CAPACITOR, CHIP, CERAMIC M/L TC 220P 50V J SL 2.0X1.25	
		C419	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C461	0CN1040K949	CAPACITOR, 0.1UF 50V Z F TA52	
		C462	0CN1040K949	CAPACITOR, 0.1UF 50V Z F TA52	
		C501	0CE1066F618	CAPACITOR, 10UF SMS 16V M FL TP5	
		C502	0CE1066F618	CAPACITOR, 10UF SMS 16V M FL TP5	
		C504	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C507	181-288D	CAPACITOR, POLYESTER, MKT 100V 473JTR PHS26473	
		C508	0CE2266F618	CAPACITOR, 22M SMS 16V M FM5 TP(5)	
		C509	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C510	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C511	0CE1066F618	CAPACITOR, 10UF SMS 16V M FL TP5	
		C512	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C513	181-288N	CAPACITOR, POLYESTER, MKT 100V 103JTR PHS86103	
		C514	0CH4121K406	CAPACITOR, CHIP, CERAMIC M/L TC 120P 50V J SL 2.0X1.2 R/P	
		C515	0CC1210K415	CAPACITOR, CERAMIC (TEMP COMP) 120P 50V J NPO TP	
		C516	0CQ1021N419	CAPACITOR, 1000P 100V J POLY NI TP	
		C517	0CQ1021N419	CAPACITOR, 1000P 100V J POLY NI TP	
		C518	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C519	0CE337CH638	CAPACITOR, AL.ELECTROLYTIC, 330UF SHL 25V M FM5 TP5	
		C520	181-305A	CAPACITOR, POLYESTER, MPP 250V 104J S=10.0	
		C522	181-305N	CAPACITOR, POLYESTER, MPP 250V 105J S=15.0	

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	REMARK
⚠		C523	181-305N	CAPACITOR, POLYESTER, MPP 250V 105J S=15.0	
		C524	0CE2266R630	CAPACITOR, AL.ELECTROLYTIC, 22U SMS 250V M FM5	
		C525	0CK2710W515	CAPACITOR, 270P 500V K B TS	
		C526	0CK2710W515	CAPACITOR, 270P 500V K B TS	
		C527	181-288C	CAPACITOR, POLYESTER, MKT 100V 224JTR PHS 26224	
		C528	181-288H	CAPACITOR, POLYESTER, MKT 100V 333JTR PHS 86333	
		C529	181-288H	CAPACITOR, POLYESTER, MKT 100V 333JTR PHS 86333	
		C601	181-288C	CAPACITOR, POLYESTER, MKT 100V 224JTR PHS 26224	
		C602	181-288B	CAPACITOR, POLYESTER, MKT 100V 104JTR PHS26104	
		C603	0CE4776H630	CAPACITOR, AL.ELECTROLYTIC, 47OM SMS 25V M FM5	
		C604	181-288D	CAPACITOR, POLYESTER, MKT 100V 473JTR PHS26473	
		C605	0CE4766K618	CAPACITOR, 47M SMS 50V M FM5 TP(5)	
		C606	0CH4470K406	CAPACITOR, CHIP, CERAMIC M/L TC 47P 50V J SL 2.0X1.2	
		C607	0CH4221K406	CAPACITOR, CHIP, CERAMIC M/L TC 220P 50V J SL 2.0X1.25	
		C608	0CE1056P618	CAPACITOR, 1U SMS 160V M FM5 TP5	
		C702	181-288D	CAPACITOR, POLYESTER, MKT 100V 473JTR PHS26473	
		C703	0CQ3321N419	CAPACITOR, 3300P 100V J POLY NI TP	
		C704	0CQ1031N419	CAPACITOR, 0.01U 100V J POLY NI TP	
		C705	0CQ1231N419	CAPACITOR, 0.0120UF 100V J PE NI TP	
		C706	181-288Q	CAPACITOR, POLYESTER, MKT 100V 154JTR PHS26154	
		C707	0CE1076F618	CAPACITOR, 100UF SMS 16V M TP(5)	
		C708	0CQ2221N419	CAPACITOR, 2200PF 100V J PE NI TP	
		C709	0CQ1031N419	CAPACITOR, 0.01U 100V J POLY NI TP	
		C710	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C711	181-288M	CAPACITOR, POLYESTER, MKT 63V 105KTR PHS15105	
		C712	0CE1066K618	CAPACITOR, 10M SMS 50V M FM5 TP(5)	
		C713	0CK2210K515	CAPACITOR, 220P 50V K B TS	
		C714	0CE3366K618	CAPACITOR, 33M SMS 50V M FM(5) TP(5)	
		C715	181-288E	CAPACITOR, POLYESTER, MKT 100V 474JTR PHS 26474	
		C716	0CE107CR650	CAPACITOR, AL.ELECTROLYTIC, 100UF SHL 250V M FM7.5	
		C717	181-309A	CAPACITOR, POLYPROPYLENE BUP 1.6KV 102J S=15.0	
		C718	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C719	0CE476CP630	CAPACITOR, AL.ELECTROLYTIC, 47UF SHL 160V M FM5 BULK	
		C720	0CE107EN618	CAPACITOR, AL.ELECTROLYTIC, 100UF KMG 100V M FL TP5	
		C721	181-305R	CAPACITOR, POLYESTER, MPP 250V 254J S=10.0	
		C722	0CE2276H618	CAPACITOR, 220U SMS 25V M FM5 TP(5)	
		C723	181-305R	CAPACITOR, POLYESTER, MPP 250V 254J S=10.0	
		C724	181-305H	CAPACITOR, POLYESTER, MPP 250V 394J S=10.0	
		C725	181-305B	CAPACITOR, POLYESTER, MPP 250V 124J S=10.0	
		C726	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C727	0CE2276H618	CAPACITOR, 220U SMS 25V M FM5 TP(5)	
		C728	181-305D	CAPACITOR, POLYESTER, MPP 250V 184J S=10.0	
		C729	0CK8210W515	CAPACITOR, 820P 500V K B TS	
		C732	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C733	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	REMARK
		C736	0CH1561K466	CAPACITOR, CHIP, CERAMIC M/L HD 560P 50V J 2.0*1.25 R/TP	
		C737	0CE1066H618	CAPACITOR, 10M SMS 25V M FM5 TP(5)	
		C738	0CE2276H618	CAPACITOR, 220U SMS 25V M FM5 TP(5)	
		C739	181-288N	CAPACITOR, POLYESTER, MKT 100V 103JTR PHS86103	
		C740	181-309P	CAPACITOR, POLYPROPYLENE BUP 1.6KV 512J S=20.0 353P	
		C742	0CE2266F618	CAPACITOR, 22M SMS 16V M FM5 TP(5)	
		C743	0CE6856K618	CAPACITOR, AL.ELECTROLYTIC, 6.8 UF SMS, SG 50V M FL	
		C744	0CE2256P618	CAPACITOR, 2.2U SMS 160V M FM5 TP5	
		C745	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C746	0CE3356K618	CAPACITOR, 3.3U SMS 50V M FM5 TP5	
		C747	0CE2276H618	CAPACITOR, 220U SMS 25V M FM5 TP(5)	
		C749	0CE477CF618	CAPACITOR, 470UF SHL 16V M FL TP5	
		C750	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C751	0CE228CF630	CAPACITOR, AL.ELECTROLYTIC, 2200U SHL 16V M FM5	
		C752	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C754	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C755	0CE1066H618	CAPACITOR, 10M SMS 25V M FM5 TP(5)	
		C756	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C757	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C758	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C759	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C760	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C766	0CE6856K618	CAPACITOR, 6.8UF SMS, 50V, FOR TCO-95 MODEL ONLY	
		C767	0CE3356K618	CAPACITOR, 3.3U SMS 50V M FM5 TP5, FOR MPR-II MODEL	
	or	C767	0CE4756K618	CAPACITOR, 4.7UF SMS, 50V, FOR TCO-95 MODEL	
⚠		C901	181-296C	CAPACITOR, AL.ELECTROLYTIC, 400V 330UF VN (25.4X60) 85	
⚠		C902	0CBZTBU002B	CAPACITOR, POLYESTER, BULK PCX2 335 474K	
⚠		C903	181-311C	CAPACITOR, CERAMIC (HIGH DIELECTRIC) DE7150-477F472M	
⚠		C904	181-311C	CAPACITOR, CERAMIC (HIGH DIELECTRIC) DE7150-477F472M	
⚠		C905	0CBZTBU002B	CAPACITOR, POLYESTER, BULK PCX2 335 474K	
⚠		C906	181-311C	CAPACITOR, CERAMIC (HIGH DIELECTRIC) DE7150-477F472M	
⚠		C907	181-311C	CAPACITOR, CERAMIC (HIGH DIELECTRIC) DE7150-477F472M	
⚠		C908	181-308V	CAPACITOR, POLYPROPYLENE PL 630V 393J S=10.0 061N	
⚠		C909	0CK22101515	CAPACITOR, CERAMIC (HIGH DIELEC 220P 1KV K B TP5	
		C910	181-288B	CAPACITOR, POLYESTER, MKT 100V 104JTR PHS26104	
		C911	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
⚠		C912	0CE106CQ618	CAPACITOR, AL.ELECTROLYTIC, 10UF SHL 200V M FL TP5	
⚠		C913	0CE4766K618	CAPACITOR, 47M SMS 50V M FM5 TP(5)	
⚠		C914	0CK4710W515	CAPACITOR, 470PF 500V K B TR	
⚠		C915	181-311C	CAPACITOR, CERAMIC (HIGH DIELECTRIC) DE7150-477F472M	
		C916	0CE227CR650	CAPACITOR, AL.ELECTROLYTIC, 220UF SHL 250V M FM7.5	
		C917	0CE107CP630	CAPACITOR, AL.ELECTROLYTIC, 100UF SHL 160V M FM5	
		C918	0CE1066N618	CAPACITOR, 10M SMS 100V M FM5 TP5	
		C919	0CE1076N630	CAPACITOR, AL.ELECTROLYTIC, 100U SMS 100V M FM5	
		C920	0CE4766F618	CAPACITOR, 47U SMS 16V M FM5 TP5	

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	REMARK
		C921	0CE228CH630	CAPACITOR, AL.ELECTROLYTIC, 2200U SHL 25V M FM5	
		C922	0CE1076F618	CAPACITOR, 100UF SMS 16V M TP(5)	
		C923	0CE108CF630	CAPACITOR, AL.ELECTROLYTIC, 1000UF SHL 16V M FM5 BULK	
		C924	0CK56102515	CAPACITOR, 560P 2KV K B TS	
		C925	0CE1076F618	CAPACITOR, 100UF SMS 16V M TP(5)	
		C926	0CE107BF638	CAPACITOR, AL.ELECTROLYTIC, 100UF KME 16V M FM5 TP5	
		C927	181-288B	CAPACITOR, POLYESTER, MKT 100V 104JTR PHS26104	
		C928	0CE2276F618	CAPACITOR, 220UF SMS 16V M FL TP5	
		C929	0CE1056K618	CAPACITOR, ELECTROLYTIC, 1.0U SMS 50V M FM5 TP5	
		C930	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C931	0CK2210K515	CAPACITOR, 220P 50V K B TS	
		C932	0CK2210K515	CAPACITOR, 220P 50V K B TS	
		C933	0CE337CH638	CAPACITOR, AL.ELECTROLYTIC, 330UF SHL 25V M FM5 TP5	
		C934	0CE4766H618	CAPACITOR, 47M SMS 25V M FL TP(5)	
		C935	0CE337CH638	CAPACITOR, AL.ELECTROLYTIC, 330UF SHL 25V M FM5 TP5	
		C936	0CK5610K515	CAPACITOR, 560P 50V K B TS	
		C938	0CK6810K515	CAPACITOR, 680P 50V K B TS	
DIODEs					
		D401	971-0016	WIRE, TIN HDC 0.60H	
		D402	971-0016	WIRE, TIN HDC 0.60H	
		D451	0DL571300AA	LED (LIGHT EMITTED DIODE), SPR571MVW3, ROHM	
		D501	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D502	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D503	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D504	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D506	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D507	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D508	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D509	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D510	0DD200009AH	DIODE, RECTIFIER, RU2AMV(1) TP, SANKEN	
		D511	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D512	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D513	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D601	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D602	0RD1000F609	RESISTOR, FIXED CARBON FILM, 100 1/6W 5 TA52	
		D701	0DR400500AA	DIODE, RECTIFIER, SB40-05J BK SANYO TO-220ML 1.1	
		D704	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D705	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D707	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D709	0DD300009AD	DIODE, RECTIFIER, RU3CV(1) TP, SANKEN	
		D710	0DD200009AH	DIODE, RECTIFIER, RU2AMV(1) TP, SANKEN	
		D712	0DD100009DA	DIODE, RECTIFIER, RGP10J, TP (52MM), GI	
		D713	0DR330009DA	DIODE, RECTIFIER, BYD33G, TP, PHILIPS SOD81 1.3W 1	
	or	D713	0DD100009DE	DIODE, RECTIFIER, RGP10G, TP, GI	

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	REMARK
		D714	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D715	0DD100009DE	DIODE, RECTIFIER, RGP10G, TP (52MM), GI	
		D716	0DD100009DE	DIODE, RECTIFIER, RGP10G, TP (52MM), GI	
		D717	0DD830009AA	DIODE, 1SS83, TP (52MM), HITACHI	
		D718	0DD100009DE	DIODE, RECTIFIER, RGP10G, TP (52MM), GI	
		D720	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D722	0DD547000AB	DIODE, RECTIFIER, 5TUZ47C (LB101A), TOSHIBA	
		D723	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D724	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D725	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D726	0DD830009AA	DIODE, 1SS83, TP (52MM), HITACHI	
		D727	0DD830009AA	DIODE, 1SS83, TP (52MM), HITACHI	
		D728	0DD400000AL	DIODE, RECTIFIER, RG4C, SANKEN	
		D729	0DD400000AL	DIODE, RECTIFIER, RG4C, SANKEN	
		D730	0DD830009AA	DIODE, 1SS83, TP (52MM), HITACHI	
		D731	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D732	971-0016	WIRE, TIN HDC 0.60H	
		D733	0DR330009CA	DIODE, RECTIFIER, BYD33D TP, PHILIPS SOD81 1.3W 1	
	or	D733	0DD100009DD	DIODE, RECTIFIER, RGP10D, GI	
		D760	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
⚠		D901	0DD360000DA	DIODE, BRIDGE D3SBA60, SHINDENKEN	
⚠		D902	0DD100009DK	DIODE, RECTIFIER, RU1P V(1) TP, SANKEN	
⚠		D903	0DR330009AA	DIODE, RECTIFIER, BYD33J TP, PHILIPS SOD81 1.3W 1	
⚠	or	D903	0DD100009DA	DIODE, RECTIFIER, RGP10J, GI	
⚠		D904	0DD400700BA	DIODE, RECTIFIER, UF4007 (1.0A/1000V), GI	
⚠		D905	0DR330009EA	DIODE, RECTIFIER, BYD33M TP, PHILIPS SOD81 1.3W 1	
⚠	or	D905	0DD100009DB	DIODE, RECTIFIER, RGP10M, TP, GI	
⚠		D906	0DR330009CA	DIODE, RECTIFIER, BYD33D TP, PHILIPS SOD81 1.3W 1	
⚠	or	D906	0DD100009DD	DIODE, RECTIFIER, RGP10D, GI	
⚠		D907	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
⚠		D908	0DD400700BA	DIODE, RECTIFIER, UF4007 (1.0A/1000V), GI	
		D909	0DD300009AD	DIODE, RECTIFIER, RU3CV(1) TP, SANKEN	
		D910	0DD300009AC	DIODE, RECTIFIER, RU3AMV(1) TP, SANKEN	
		D911	0DR330009AA	DIODE, RECTIFIER, BYD33J TP, PHILIPS SOD81 1.3W 1	
	or	D911	0DD100009DA	DIODE, RECTIFIER, RGP10J, GI	
⚠		D912	0DR330009EA	DIODE, RECTIFIER, BYD33M TP, PHILIPS SOD81 1.3W 1	
⚠	or	D912	0DD100009DB	DIODE, RECTIFIER, RGP10M, TP, GI	
		D913	0DR330009CA	DIODE, RECTIFIER, BYD33D TP, PHILIPS SOD81 1.3W 1	
	or	D913	0DD100009DD	DIODE, RECTIFIER, RGP10D, GI	
		D914	0DD300900AA	DIODE, RECTIFIER, SB30-09J, SANYO	
		D915	0DD100009DE	DIODE, RECTIFIER, RGP10G, TP (52MM), GI	
		D916	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D917	0DD300900AA	DIODE, RECTIFIER, SB30-09J, SANYO	
		D918	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D919	0DR330009CA	DIODE, RECTIFIER, BYD33D TP, PHILIPS SOD81 1.3W 1	

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	or	D919	0DD100009DD	DIODE, RECTIFIER, RGP10D, GI	
		D920	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D923	0DR330009CA	DIODE, RECTIFIER, BYD33D TP, PHILIPS SOD81 1.3W 1	
	or	D923	0DD100009DD	DIODE, RECTIFIER, RGP10D, GI	
		D924	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		ZD401	0DZ560009AA	DIODE, ZENER, MTZ5.6B, TP (52MM), ROHM	
		ZD402	0DZ560009AA	DIODE, ZENER, MTZ5.6B, TP (52MM), ROHM	
		ZD403	0DZ560009AA	DIODE, ZENER, MTZ5.6B, TP (52MM), ROHM	
		ZD404	0DZ560009AA	DIODE, ZENER, MTZ5.6B, TP (52MM), ROHM	
		ZD405	0DZ560009AA	DIODE, ZENER, MTZ5.6B, TP (52MM), ROHM	
		ZD406	0DZ560009AA	DIODE, ZENER, MTZ5.6B, TP (52MM), ROHM	
		ZD407	0DZ560009AA	DIODE, ZENER, MTZ5.6B, TP (52MM), ROHM	
		ZD408	0DZ560009AA	DIODE, ZENER, MTZ5.6B, TP (52MM), ROHM	
		ZD501	0DZ910009BA	DIODE, ZENER, MTZ9.1B,TP (52MM),ROHM	
		ZD502	0DZ180009AA	DIODE, ZENER, MTZ18B, TP (52MM), ROHM	
		ZD505	0DZ620009AA	DIODE, ZENER, 6.2B 0.25W	
		ZD701	0DZ180009AA	DIODE, ZENER, MTZ18B, TP (52MM), ROHM	
		ZD702	0DZ150009BD	DIODE, ZENER, MTZ15B, TP (52MM), ROHM	
⚠		ZD901	0DZ180009AA	DIODE, ZENER, MTZ18B, TP (52MM), ROHM	
		ZD902	0DZ910009BA	DIODE, ZENER, MTZ9.1B, TP (52MM), ROHM	
		ZD903	0DZ820009AA	DIODE, ZENER, MTZ8.2B, TP (52MM), ROHM	
		ZD904	0DZ820009AA	DIODE, ZENER, MTZ8.2B, TP (52MM), ROHM	
		ZD905	0DZ820009AA	DIODE, ZENER, MTZ8.2B, TP (52MM), ROHM	
		ZD906	0DZ120009CB	DIODE, ZENER, MTZ12B (52MM) TP, ROHM	
		ZD907	0DZ120009CB	DIODE, ZENER, MTZ12B (52MM) TP, ROHM	
		ZD908	0DZ120009CB	DIODE, ZENER, MTZ12B (52MM) TP, ROHM	
ICs					
		IC401	167-094W	IC, HIC, MC68HC05BD16 42 BK OTP MICOM CS590	
		IC402	0IAL240800A	IC, ATMEL, AT24C08-10PC 8D EEPROM(8K,IIC)	
		IC502	0ISS393000F	IC, SAMSUNG ELECTRONICS, KA393	
		IC503	0IKE358000A	IC, KEC, KIA358P (OP AMP)	
		IC504	0ISS393000F	IC, SAMSUNG ELECTRONICS, KA393	
		IC601	0IPH486630A	IC, PHILIPS, TDA4866/V3D	
⚠		IC701	0IPH485820A	IC, PHILIPS, TDA4858/V2	
		IC702	0IKE358000A	IC, KEC, KIA358P(OP AMP)	
⚠		IC901	0ISK652450A	IC, SANKEN, STR F6524 (LF501=LF1351) 3GR-F	
⚠		IC902	0ITO721400A	IC, TOSHIBA, TLP721 D4-GR 4D PHOTO (SEMKO)	
		IC903	0ISS781200F	IC, SAMSUNG ELECTRONICS, KA7812	
		IC904	0ISS780500F	IC, SAMSUNG ELECTRONICS, KA7805	
⚠		IC905	0IGS401300A	IC, GOLDSTAR ELECTRON, GD4013B 14D DUAL D-F/F	
		IC906	0IKE431000B	IC, KEC, KIA431 (TP)	

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COILs & COREs					
		L401	125-155F	CORE (CIRC), FERRITE BEAD (BFD3580R2FG), SAMHWA	
		L402	125-155F	CORE (CIRC), FERRITE BEAD (BFD3580R2FG), SAMHWA	
		L501	150-235F	COIL, CHOKE 25UH 1A	
		L502	150-985K	COIL, CHOKE D/D, 14*20,2.8MH	
		L503	125-155K	CORE (CIRC), FERRITE BEAD (BFS3550A0FG, SAMHWA	
		L504	125-155K	CORE (CIRC), FERRITE BEAD (BFS3550A0FG,)SAMHWA	
		L506	125-155B	CORE (CIRC), FERRITE BEAD (BFS3580R2FG), SAMHWA	
		L703	125-155K	CORE (CIRC), FERRITE BEAD (BFS3550A0FG), SAMHWA	
		L704	150-L05H	COIL, LINEARITY 10*12,16UH	
		L705	150-L05G	COIL, LINEARITY 14*15,6UH	
		L706	150-539G	COIL, CHOKE H-CENTERING (4.5MH)	
⚠		L901	150-A50C	FILTER (CIRC), LINE L/FILTER, SQ2930 28MH MIN, CS587	
⚠		L902	125-155B	CORE (CIRC), FERRITE BEAD (BFS3580R2FG), SAMHWA	
⚠		L903	125-155B	CORE (CIRC), FERRITE BEAD (BFS3580R2FG), SAMHWA	
⚠		L904	125-155K	CORE (CIRC), FERRITE BEAD (BFS3550A0FG), SAMHWA	
TRANSISTORs					
		Q402	0TR319809AA	TRANSISTOR, KTC3198-TP-Y (KTC1815), KEC	
		Q403	0TR114009AB	TRANSISTOR, DTC114ES, TP, ROHM	
		Q451	0TR114009AB	TRANSISTOR, DTC114ES, TP, ROHM	
		Q452	0TR114009AB	TRANSISTOR, DTC114ES, TP, ROHM	
		Q501	0TR114009AA	TRANSISTOR, DTA114ES, TP, ROHM	
		Q502	0TR114009AB	TRANSISTOR, DTC114ES, TP, ROHM	
		Q503	0TR127009AA	TRANSISTOR, KTA1270-Y (KTA562TM) TP, KEC	
		Q504	0TR390409CA	TRANSISTOR, 2N3904, TP, SAMSUNG	
		Q505	0TR320209AA	TRANSISTOR, KTC3202-TP-Y (KTC1959), KEC	
		Q506	0TR127009AA	TRANSISTOR, KTA1270-Y (KTA562TM) TP, KEC	
⚠		Q507	0TF963000AA	FET, IRFS9630, SAMSUNG	
		Q508	0TR114009AB	TRANSISTOR, DTC114ES, TP, ROHM	
		Q509	0TR127009AA	TRANSISTOR, KTA1270-Y (KTA562TM) TP, KEC	
		Q510	0TR320209AA	TRANSISTOR, KTC3202-TP-Y (KTC1959), KEC	
		Q511	0TR127009AA	TRANSISTOR, KTA1270-Y (KTA562TM) TP, KEC	
		Q601	0TR320609AB	TRANSISTOR, KTC3206-Y, TP(KTC2229), KEC	
		Q703	0TR114009AA	TRANSISTOR, DTA114ES, TP, ROHM	
		Q704	0TR390409CA	TRANSISTOR, 2N3904 TP, SAMSUNG	
		Q705	0TR320209AA	TRANSISTOR, KTC3202-TP-Y (KTC1959), KEC	
		Q706	0TR127009AA	TRANSISTOR, KTA1270-Y (KTA562TM) TP, KEC	
⚠		Q707	0TF284700AA	FET, 2SK2847 (TOSHIBA)	
		Q709	0TF125000AA	FET, FS12KM-5 BK MITSUBISHI 250 10A	
	or	Q709	0TF213400AA	FET, 2SK2134, NEC	
		Q710	0TF125000AA	FET, FS12KM-5 BK MITSUBISHI 250 10A	
	or	Q710	0TF213400AA	FET, 2SK2134, NEC	
		Q712	0TR114009AB	TRANSISTOR, DTC114ES, TP, ROHM	
		Q713	0TR114009AB	TRANSISTOR, DTC114ES, TP, ROHM	

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⚠		Q714	0TR319809AA	TRANSISTOR, KTC3198-TP-Y (KTC1815), KEC	
		Q717	0TR200009AB	TRANSISTOR, KTC200-Y, TP, KEC	
		Q718	0TR540400AA	TRANSISTOR, 2SC5404 BK TOSHIBA T0-3P	
⚠		Q719	0TR127509AC	TRANSISTOR, KTA1275-Y TP(KTA1013), KEC	
		Q720	0TR320709AA	TRANSISTOR, KTC3207,TP(KTC2482), KEC	
		Q721	0TR102409AB	TRANSISTOR, KTA1024-Y (KTA949) TP, KEC	
	or	Q722	0TR102409AB	TRANSISTOR, KTA1024-Y (KTA949) TP, KEC	
		Q723	0TR319809AA	TRANSISTOR, KTC3198-TP-Y (KTC1815),KEC	
		Q724	0TR319809AA	TRANSISTOR, KTC3198-TP-Y (KTC1815),KEC	
		Q728	0TF125000AA	FET, FS12KM-5 BK MITSUBISHI 250 10A	
		Q728	0TF213400AA	FET, 2SK2134, NEC	
		Q729	0TR114009AB	TRANSISTOR, DTC114ES, TP ,ROHM	
		Q730	0TR319809AA	TRANSISTOR, KTC3198-TP-Y (KTC1815), KEC	
		Q731	0TR127009AA	TRANSISTOR, KTA1270-Y (KTA562TM) TP, KEC	
⚠		Q901	0TR319809AA	TRANSISTOR, KTC3198-TP-Y (KTC1815), KEC	
		Q902	0TR102609AC	TRANSISTOR, KTC1026-Y (KTC2230A) TP	
		Q903	0TR102609AC	TRANSISTOR, KTC1026-Y (KTC2230A) TP	
		Q904	0TR390409CA	TRANSISTOR, 2N3904 TP, SAMSUNG	
		Q905	0TR114009AB	TRANSISTOR, DTC114ES, TP, ROHM	
		Q906	0TR231609AA	TRANSISTOR, KSC2316-Y TP, SAMSUNG	
		Q907	0TR401000CC	TRANSISTOR, KSD401-Y, (W/MICA), SS	
		Q909	0TR200009AB	TRANSISTOR, KTC200-Y, TP, KEC	
		Q910	0TR319809AA	TRANSISTOR, KTC3198-TP-Y (KTC1815), KEC	
		Q911	0TR114009AB	TRANSISTOR, DTC114ES, TP, ROHM	
		Q912	0TR183700AA	TRANSISTOR, 2SA1837, TOSHIBA	
		Q913	0TR320609AB	TRANSISTOR, KTC3206-Y, TP(KTC2229), KEC	
		Q914	0TR114009AB	TRANSISTOR, DTC114ES, TP ,ROHM	
		Q917	0TR114009AB	TRANSISTOR, DTC114ES, TP, ROHM	
RESISTORs					
		R2	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R401	0RH1001D622	RESISTOR, CHIP, 1.0K 1/10W 5 D.R/TP	
		R404	0RH1001D622	RESISTOR, CHIP, 1.0K 1/10W 5 D.R/TP	
		R405	0RD1002F609	RESISTOR, FIXED CARBON FILM, 10K 1/6W 5 TA52	
		R406	0RD1002F609	RESISTOR, FIXED CARBON FILM, 10K 1/6W 5 TA52	
		R407	0RH1001D622	RESISTOR, CHIP, 1.0K 1/10W 5 D.R/TP	
		R408	0RD1002F609	RESISTOR, FIXED CARBON FILM, 10K 1/6W 5 TA52	
		R409	0RD1002F609	RESISTOR, FIXED CARBON FILM, 10K 1/6W 5 TA52	
		R410	0RH1001D622	RESISTOR, CHIP, 1.0K 1/10W 5 D.R/TP	
		R411	0RH1001D622	RESISTOR, CHIP, 1.0K 1/10W 5 D.R/TP	
		R412	0RH1001D622	RESISTOR, CHIP, 1.0K 1/10W 5 D.R/TP	
		R413	0RD1002F609	RESISTOR, FIXED CARBON FILM, 10K 1/6W 5 TA52	
		R414	0RD1002F609	RESISTOR, FIXED CARBON FILM, 10K 1/6W 5 TA52	
		R415	0RD1002F609	RESISTOR, FIXED CARBON FILM, 10K 1/6W 5 TA52	
		R416	0RD1002F609	RESISTOR, FIXED CARBON FILM, 10K 1/6W 5 TA52	

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		R417	ORD1002F609	RESISTOR, FIXED CARBON FILM, 10K 1/6W 5 TA52	
		R418	ORD1002F609	RESISTOR, FIXED CARBON FILM, 10K 1/6W 5 TA52	
		R419	ORD4701F609	RESISTOR, FIXED CARBON FILM, 4.70K 1/6W 5% TA52	
		R420	ORD4701F609	RESISTOR, FIXED CARBON FILM, 4.70K 1/6W 5% TA52	
		R422	0RH1001D622	RESISTOR, CHIP, 1.0K 1/10W 5 D.R/TP	
		R423	0RH1001D622	RESISTOR, CHIP, 1.0K 1/10W 5 D.R/TP	
		R424	0RH1001D622	RESISTOR, CHIP, 1.0K 1/10W 5 D.R/TP	
		R425	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R426	ORD1000F609	RESISTOR, FIXED CARBON FILM, 100 1/6W 5 TA52	
		R427	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R428	0RH1001D622	RESISTOR, CHIP, 1.0K 1/10W 5 D.R/TP	
		R429	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R430	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R431	0RH1001D622	RESISTOR, CHIP, 1.0K 1/10W 5 D.R/TP	
		R432	ORD1000F609	RESISTOR, FIXED CARBON FILM, 100 1/6W 5 TA52	
		R433	ORD1000F609	RESISTOR, FIXED CARBON FILM, 100 1/6W 5 TA52	
		R434	0RH2701D622	RESISTOR, CHIP, 2.7K 1/10W 5 D.R/TP	
		R435	0RH2701D622	RESISTOR, CHIP, 2.7K 1/10W 5 D.R/TP	
		R436	ORD1000F609	RESISTOR, FIXED CARBON FILM, 100 1/6W 5 TA52	
		R437	ORD1000F609	RESISTOR, FIXED CARBON FILM, 100 1/6W 5 TA52	
		R438	ORD1000F609	RESISTOR, FIXED CARBON FILM, 100 1/6W 5 TA52	
		R439	ORD1000F609	RESISTOR, FIXED CARBON FILM, 100 1/6W 5 TA52	
		R440	ORD1000F609	RESISTOR, FIXED CARBON FILM, 100 1/6W 5 TA52	
		R450	ORD1300F609	RESISTOR, FIXED CARBON FILM, 130 1/6W 5 TA52	
		R451	ORD2000F509	RESISTOR, FIXED CARBON FILM, 200 1/6W 2 TA52	
		R452	ORD2700F509	RESISTOR, FIXED CARBON FILM, 270 1/6W 2 TA52	
		R453	ORD3900F509	RESISTOR, FIXED CARBON FILM, 390 1/6W 2 TA52	
		R454	ORD6800F509	RESISTOR, FIXED CARBON FILM, 680 1/6W 2 TA52	
		R455	ORD1301F509	RESISTOR, FIXED CARBON FILM, 1.3K 1/6W 2 TA52	
		R456	ORD2200F609	RESISTOR, FIXED CARBON FILM, 220 1/6W 5 TA52	
		R457	ORD2200F609	RESISTOR, FIXED CARBON FILM, 220 1/6W 5 TA52	
		R461	ORD1001F609	RESISTOR, FIXED CARBON FILM, 1.0K 1/6W 5 TA52	
		R462	ORD1001F609	RESISTOR, FIXED CARBON FILM, 1.0K 1/6W 5 TA52	
		R463	ORD5100F609	RESISTOR, FIXED CARBON FILM, 510 1/6W 5 TA52	
		R464	ORD5100F609	RESISTOR, FIXED CARBON FILM, 510 1/6W 5 TA52	
		R501	ORD1001F609	RESISTOR, FIXED CARBON FILM, 1.0K 1/6W 5 TA52	
		R502	0RH2201D622	RESISTOR, CHIP, 2.2K 1/10W P-TYPE TAPPING	
		R503	0RH2201D622	RESISTOR, CHIP, 2.2K 1/10W P-TYPE TAPPING	
		R504	0RH1500D622	RESISTOR, CHIP, 150 1/10W 5 D.R/TP	
		R505	0RH6201D622	RESISTOR, CHIP, 6.2K 1/10W 5 D.R/TP	
		R506	ORD0302H609	RESISTOR, FIXED CARBON FILM, 30 1/2W 5 TA52	
		R507	ORD1002F609	RESISTOR, FIXED CARBON FILM, 10K 1/6W 5 TA52	
		R508	0RH1501D622	RESISTOR, CHIP, 1.5K 1/10W 5 D.R/TP	
		R509	ORD2702F609	RESISTOR, FIXED CARBON FILM, 27K 1/6W 5 TA52	
		R510	ORD1002F609	RESISTOR, FIXED CARBON FILM, 10K 1/6W 5 TA52	

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		R511	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R512	ORD3000F609	RESISTOR, FIXED CARBON FILM, 300 1/6W 5 TA52	
		R513	ORD2002F509	RESISTOR, FIXED CARBON FILM, 20K 1/6W 2 TA52	
		R514	0RH6202D622	RESISTOR, CHIP, 62K 1/10W 5 TA	
		R515	0RN1302F409	RESISTOR, FIX METAL FILM, 13K 1/6W 1% TA52	
		R516	0RN1002F409	RESISTOR, FIX METAL FILM, 10K 1/6W 1 TA52	
		R517	0RH6202D622	RESISTOR, CHIP, 62K 1/10W 5 TA	
		R518	ORD2002F609	RESISTOR, FIXED CARBON FILM, 20K 1/6W 5 TA52	
		R519	ORD2201F609	RESISTOR, FIXED CARBON FILM, 2.2K 1/6W 5 TA52	
		R520	0RH3901D622	RESISTOR, CHIP, 3.9K 1/10W 5 D.R/TP	
		R521	ORD1201F609	RESISTOR, FIXED CARBON FILM, 1.2K 1/6W 5 TA52	
		R522	ORD9101F509	RESISTOR, FIXED CARBON FILM, 9.1K 1/6W 2 TA52	
		R523	0RH4703D622	RESISTOR, CHIP, 470K 1/10W 5 D.R/TP	
		R524	ORD4701F609	RESISTOR, FIXED CARBON FILM, 4.70K 1/6W 5% TA52	
		R525	ORD0472F609	RESISTOR, FIXED CARBON FILM, 47 1/6W 5% TA	
		R526	ORD0472F609	RESISTOR, FIXED CARBON FILM, 47 1/6W 5% TA	
		R527	ORD5601F609	RESISTOR, FIXED CARBON FILM, 5.6K 1/6W 5 TA52	
		R528	ORD2703H609	RESISTOR, FIXED CARBON FILM, 270K 1/2W 5 TA52	
		R530	ORD1803F609	RESISTOR, FIXED CARBON FILM, 180K 1/6W 5 TA52	
		R531	ORD1203F609	RESISTOR, FIXED CARBON FILM, 120K 1/6W 5 TA52	
		R532	ORD1502F509	RESISTOR, FIXED CARBON FILM, 15K 1/6W 2 TA52	
		R533	ORD4701F609	RESISTOR, FIXED CARBON FILM, 4.70K 1/6W 5% TA52	
		R534	ORD5602F609	RESISTOR, FIXED CARBON FILM, 56K 1/6W 5 TA52	
		R535	0RH3902D622	RESISTOR, CHIP, 39K 1/10W 5 D.R/TP	
		R536	0RN0270H609	RESISTOR, FIX METAL FILM, 0.27 1/2W 5 TA52	
		R537	0RH4702D622	RESISTOR, CHIP, 47K 1/10W 5 D.R/TP	
		R538	ORD1002F609	RESISTOR, FIXED CARBON FILM, 10K 1/6W 5 TA52	
		R539	ORD0102F609	RESISTOR, FIXED CARBON FILM, 10 1/6W 5 TA52	
		R540	0RH0000D622	RESISTOR, CHIP, 0 1/10W P-TYPE TAPPING	
		R542	0RS0102J665	RESISTOR, FIX METAL FILM, OXIDE 10 1W 5 SF20	
		R545	0RH1202D622	RESISTOR, CHIP, 12K 1/10W 5 D.R/TP	
		R601	ORD1001F609	RESISTOR, FIXED CARBON FILM, 1.0K 1/6W 5 TA52	
		R602	ORD2002F609	RESISTOR, FIXED CARBON FILM, 20K 1/6W 5 TA52	
		R604	ORD2002F609	RESISTOR, FIXED CARBON FILM, 20K 1/6W 5 TA52	
		R605	0RH7502D622	RESISTOR, CHIP, 75K 1/10W 5 D.R/TP	
		R606	0RH2002D622	RESISTOR, CHIP, 20K 1/10W 5 D.R/TP	
		R607	0RN0101H609	RESISTOR, 1.0 1/2W 5 TA52	
		R608	ORD2200F609	RESISTOR, FIXED CARBON FILM, 220 1/6W 5 TA52	
		R609	ORD2200F609	RESISTOR, FIXED CARBON FILM, 220 1/6W 5 TA52	
		R610	ORD0151H609	RESISTOR, FIXED CARBON FILM, 1.5 1/2W 5 TA52	
		R611	ORD0102H609	RESISTOR, FIXED CARBON FILM, 10 1/2W 5% TA52	
		R612	ORD3300H609	RESISTOR, FIXED CARBON FILM, 330 1/2W 5 TA52	
		R613	ORD1000H609	RESISTOR, FIXED CARBON FILM, 100 1/2W 5 TA52	
		R614	0RN3301F409	RESISTOR, FIX METAL FILM, 3.30K 1/6W 1% TA52	
		R615	ORD1000F609	RESISTOR, FIXED CARBON FILM, 100 1/6W 5 TA52	

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	REMARK
!		R616	0RD1001F609	RESISTOR, FIXED CARBON FILM, 1.0K 1/6W 5 TA52	
		R617	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R618	0RH3900D622	RESISTOR, CHIP, 390 1/10W 5 D.R/TP	
		R619	0RD2002F609	RESISTOR, FIXED CARBON FILM, 20K 1/6W 5 TA52	
		R620	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R701	0RD1001F609	RESISTOR, FIXED CARBON FILM, 1.0K 1/6W 5 TA52	
		R702	0RH5602D622	RESISTOR, CHIP, 56K 1/10W 5 D.R/TP	
		R703	0RH2002D622	RESISTOR, CHIP, 20K 1/10W 5 D.R/TP	
		R704	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R705	0RH2002D622	RESISTOR, CHIP, 20K 1/10W 5 D.R/TP	
		R706	0RH8201D622	RESISTOR, CHIP, 8.2K 1/10W 5 D.R/TP	
		R707	0RH1801D422	RESISTOR, CHIP, 1800 OHM 1 / 10 W 1% D R/TP	
		R708	0RD1502F609	RESISTOR, FIXED CARBON FILM, 15K 1/6W 5 TA52	
		R709	0RN1001F409	RESISTOR, FIX METAL FILM, 1K 1/6W 1% TA52	
		R710	0RH3002D622	RESISTOR, CHIP, 30K 1/10W 5 D.R/TP	
		R711	0RD2202F609	RESISTOR, FIXED CARBON FILM, 22K 1/6W 5 TA52	
		R712	0RD1101F609	RESISTOR, FIXED CARBON FILM, 1.1K 1/6W 5 TA52	
		R713	0RH1001D622	RESISTOR, CHIP, 1.0K 1/10W 5 D.R/TP	
		R714	0RD1001F609	RESISTOR, FIXED CARBON FILM, 1.0K 1/6W 5 TA52	
		R715	0RH1303D622	RESISTOR, CHIP, 130K 1/10W 5 TA	
		R716	0RD1202F509	RESISTOR, FIXED CARBON FILM, 12K 1/6W 2 TA52	
		R717	0RD1201Q609	RESISTOR, FIXED CARBON FILM, 1.20K 1/4W(3 5% TA52	
		R718	0RD6800Q609	RESISTOR, FIXED CARBON FILM, 680 1/4W(3 5% TA52	
		R719	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R720	0RD1303F609	RESISTOR, FIXED CARBON FILM, 130K 1/6W 5 TA52	
		R721	0RD5102F609	RESISTOR, FIXED CARBON FILM, 51K 1/6W 5 TA52	
		R722	0RD3902F609	RESISTOR, FIXED CARBON FILM, 39K 1/6W 5 TA52	
		R723	0RH9101D622	RESISTOR, CHIP, 9.1K 1/10W 5 D.R/TP	
		R724	0RH1102D622	RESISTOR, CHIP, 11K 1/10W 5 D.R/TP	
		R725	0RD2200F609	RESISTOR, FIXED CARBON FILM, 220 1/6W 5 TA52	
		R726	0RD3301F609	RESISTOR, FIXED CARBON FILM, 3.3K 1/6W 5 TA52	
		R727	0RD0472F609	RESISTOR, FIXED CARBON FILM, 47 1/6W 5% TA	
		R728	0RH0102D622	RESISTOR, CHIP, 10 1/10W 5 D.R/TP	
		R729	0RD1200F609	RESISTOR, FIXED CARBON FILM, 120 1/6W 5 TA52	
		R730	0RD4701F609	RESISTOR, FIXED CARBON FILM, 4.70K 1/6W 5% TA52	
		R731	180-465C	RESISTOR, CEMENT, 5W 39J (V-TYPE)	
		R732	0RD1001F609	RESISTOR, FIXED CARBON FILM, 1.0K 1/6W 5 TA52	
		R733	0RD1204F609	RESISTOR, FIXED CARBON FILM, 1.2M 1/6W 5% TA	
		R734	0RD1204F609	RESISTOR, FIXED CARBON FILM, 1.2M 1/6W 5% TA	
		R735	0RD1002F609	RESISTOR, FIXED CARBON FILM, 10K 1/6W 5 TA52	
		R736	0RD1204F609	RESISTOR, FIXED CARBON FILM, 1.2M 1/6W 5% TA	
		R737	0RD1002F609	RESISTOR, FIXED CARBON FILM, 10K 1/6W 5 TA52	
		R738	0RD2200H609	RESISTOR, FIXED CARBON FILM, 220 1/2W 5% TA52	
		R739	0RD0472F609	RESISTOR, FIXED CARBON FILM, 47 1/6W 5% TA	
		R740	0RD1002F609	RESISTOR, FIXED CARBON FILM, 10K 1/6W 5 TA52	

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		R741	ORD5602F609	RESISTOR, FIXED CARBON FILM, 56K 1/6W 5 TA52	
		R742	ORD5603H609	RESISTOR, FIXED CARBON FILM, 560K 1/2W 5 TA52	
		R743	ORD6803H609	RESISTOR, FIXED CARBON FILM, 680K 1/2W 5 TA52	
		R745	ORD1303F609	RESISTOR, FIXED CARBON FILM, 130K 1/6W 5 TA52	
		R746	ORD1004F609	RESISTOR, FIXED CARBON FILM, 1.0M 1/6W 5 TA52	
		R747	0RH1001D622	RESISTOR, CHIP, 1.0K 1/10W 5 D.R/TP	
		R750	ORD1002F609	RESISTOR, FIXED CARBON FILM, 10K 1/6W 5 TA52	
		R751	ORD0472H609	RESISTOR, FIXED CARBON FILM, 47 1/2W 5 TA52	
		R752	0RS0332J609	RESISTOR, FIX METAL FILM, OXIDE 33 1W 5 TA52	
		R753	ORD0102F609	RESISTOR, FIXED CARBON FILM, 10 1/6W 5 TA52	
		R754	ORD3900H609	RESISTOR, FIXED CARBON FILM, 390 1/2W 5 TA52	
		R755	971-0016	WIRE, TIN HDC 0.60H	
		R756	ORD0301H609	RESISTOR, FIXED CARBON FILM, 3.0 1/2W 5 TA52	
		R757	0RH0102D622	RESISTOR, CHIP, 10 1/10W 5 D.R/TP	
		R758	ORD0472H609	RESISTOR, FIXED CARBON FILM, 47 1/2W 5 TA52	
		R759	ORD0472H609	RESISTOR, FIXED CARBON FILM, 47 1/2W 5 TA52	
		R760	ORD1002F609	RESISTOR, FIXED CARBON FILM, 10K 1/6W 5 TA52	
		R761	ORD1003F609	RESISTOR, FIXED CARBON FILM, 100K 1/6W 5 TA52	
		R762	ORD3002F609	RESISTOR, FIXED CARBON FILM, 30K 1/6W 5 TA52	
		R763	ORD4700F609	RESISTOR, FIXED CARBON FILM, 470 1/6W 5 TA52	
		R764	ORD1803F609	RESISTOR, FIXED CARBON FILM, 180K 1/6W 5 TA52	
		R765	ORD1602F609	RESISTOR, FIXED CARBON FILM, 16K 1/6W 5 TA52	
		R766	ORD1004F609	RESISTOR, FIXED CARBON FILM, 1.0M 1/6W 5 TA52	
		R768	ORD5602F609	RESISTOR, FIXED CARBON FILM, 56K 1/6W 5 TA52	
		R769	ORD8203Q609	RESISTOR, FIXED CARBON FILM, 820KOHM 1/4 W (3.4) 5%	
		R770	ORD4700F609	RESISTOR, FIXED CARBON FILM, 470 1/6W 5 TA52	
		R771	ORD1503Q609	RESISTOR, FIXED CARBON FILM, 150K 1/4W(3 5% TA52	
		R772	ORD1003F609	RESISTOR, FIXED CARBON FILM, 100K 1/6W 5 TA52	
		R773	ORD1000F609	RESISTOR, FIXED CARBON FILM, 100 1/6W 5 TA52	
		R774	ORD5602F609	RESISTOR, FIXED CARBON FILM, 56K 1/6W 5 TA52	
		R775	ORD1002F609	RESISTOR, FIXED CARBON FILM, 10K 1/6W 5 TA52	
		R776	0RN0270J607	RESISTOR, FIX METAL FILM, 0.27 1W 5% TA62	
		R780	ORD1001F609	RESISTOR, FIXED CARBON FILM, 1.0K 1/6W 5 TA52	
		R781	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R782	ORD1602F609	RESISTOR, FIXED CARBON FILM, 16K 1/6W 5 TA52	
		R783	ORD5602F609	RESISTOR, FIXED CARBON FILM, 56K 1/6W 5 TA52	
		R784	0RH1004D622	RESISTOR, CHIP, 1.0M 1/10W 5 D.R/TP	
		R785	0RH0000D622	RESISTOR, CHIP, 0 1/10W P-TYPE TAPPING	
		R786	0RH1802D622	RESISTOR, CHIP, 18K 1/10W 5 D.R/TP	
		R787	0RH4702D622	RESISTOR, CHIP, 47K 1/10W 5 D.R/TP	
		R788	0RH3002D622	RESISTOR, CHIP, 30K 1/10W 5 D.R/TP	
		R789	0RH4302D622	RESISTOR, CHIP, 43K 1/10W 5 D.R/TP	
		R790	0RH1001D622	RESISTOR, CHIP, 1.0K 1/10W 5 D.R/TP	
		R791	0RH2000D622	RESISTOR, CHIP, 200 1/10W 5 TA	
		R792	ORD0102F609	RESISTOR, FIXED CARBON FILM, 10 1/6W 5 TA52	

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		R793	ORD0102F609	RESISTOR, FIXED CARBON FILM, 10 1/6W 5 TA52	
		R794	ORD2000F609	RESISTOR, FIXED CARBON FILM, 200 1/6W 5 TA52	
⚠		R901	ORD3003H609	RESISTOR, FIXED CARBON FILM, 300K 1/2W 5 TA52	
⚠		R902	180-465H	RESISTOR, CEMENT 5W 0.24J(V-TYPE)	
⚠		R903	180-142V	RESISTOR, CEMENT RWR 5W 4.7J	
		R905	ORD0102F609	RESISTOR, FIXED CARBON FILM, 10 1/6W 5 TA52	
		R906	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
⚠		R907	ORD5603H609	RESISTOR, FIXED CARBON FILM, 560K 1/2W 5 TA52	
⚠		R908	ORD1003H609	RESISTOR, FIXED CARBON FILM, 100K 1/2W 5 TA52	
⚠		R909	ORD2702H609	RESISTOR, FIXED CARBON FILM, 27K 1/2W 5 TA52	
⚠		R910	ORD2702H609	RESISTOR, FIXED CARBON FILM, 27K 1/2W 5 TA52	
⚠		R911	ORD0472H609	RESISTOR, FIXED CARBON FILM, 47 1/2W 5 TA52	
⚠		R912	0RX5102J609	RESISTOR, SMALL FIX METAL FILM, OXIDE51KOHM 1 W 5%	
⚠		R913	ORD0332F609	RESISTOR, FIXED CARBON FILM, 33 1/6W 5 TA52	
⚠		R914	ORD4701F609	RESISTOR, FIXED CARBON FILM, 4.70K 1/6W 5% TA52	
⚠		R915	ORD6800F609	RESISTOR, FIXED CARBON FILM, 680 1/6W 5 TA52	
⚠		R916	0RB0150J609	RESISTOR, FIX WIRE-WOUND PRECISION, 0.15 1W 5 TA52	
⚠		R917	ORD4700F609	RESISTOR, FIXED CARBON FILM, 470 1/6W 5 TA52	
		R918	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R919	0RN6202F409	RESISTOR, FIXED METAL FILM, 62KOHM 1/6 W 1% TA52	
		R920	ORD1000F609	RESISTOR, FIXED CARBON FILM, 100 1/6W 5 TA52	
		R921	ORD4701F609	RESISTOR, FIXED CARBON FILM, 4.70K 1/6W 5% TA52	
		R922	ORD2002H609	RESISTOR, FIXED CARBON FILM, 20K 1/2W 5 TA52	
		R923	0RB0471J609	RESISTOR, FIX WIRE-WOUND PRECISION, 4.7OHM 1 W 5%	
		R924	ORD1501F609	RESISTOR, FIXED CARBON FILM, 1.5K 1/6W 5 TA52	
		R925	0RH1001D622	RESISTOR, CHIP, 1.0K 1/10W 5 D.R/TP	
		R926	0RN1103F409	RESISTOR, FIXED METAL FILM, 110KOHM 1/6 W 1% TA52	
		R927	0RH8202D622	RESISTOR, CHIP, 82K 1/10W 5 D.R/TP	
		R928	0RN2201F409	RESISTOR, FIX METAL FILM, 2.20K 1/6W 1% TA52	
		R929	0RH1501D622	RESISTOR, CHIP, 1.5K 1/10W 5 D.R/TP	
		R930	ORD2002H609	RESISTOR, FIXED CARBON FILM, 20K 1/2W 5 TA52	
⚠		R931	ORD1003H609	RESISTOR, FIXED CARBON FILM, 100K 1/2W 5 TA52	
		R932	0RH5602D622	RESISTOR, CHIP, 56K 1/10W 5 D.R/TP	
		R933	ORD1201F609	RESISTOR, FIXED CARBON FILM, 1.2K 1/6W 5 TA52	
		R934	ORD4701F609	RESISTOR, FIXED CARBON FILM, 4.70K 1/6W 5% TA52	
		R935	0RN0270H609	RESISTOR, FIX METAL FILM, 0.27 1/2W 5 TA52	
		R936	ORD0102F609	RESISTOR, FIXED CARBON FILM, 10 1/6W 5 TA52	
		R937	0RS0331J609	RESISTOR, FIX METAL FILM, OXIDE 3.3 1W 5 TA52	
		R938	ORD3902F609	RESISTOR, FIXED CARBON FILM, 39K 1/6W 5 TA52	
		R939	ORD8200F609	RESISTOR, FIXED CARBON FILM, 820 1/6W 5 TA52	
		R940	ORD2000H609	RESISTOR, FIXED CARBON FILM, 200 1/2W 5 TA52	
		R941	0RS0331J609	RESISTOR, FIX METAL FILM, OXIDE 3.3 1W 5 TA52	
		R942	0RH2401D622	RESISTOR, CHIP, 2.4K 1/10W 5 TA	
		R943	ORD2401F609	RESISTOR, FIXED CARBON FILM, 2.4K 1/6W 5 TA52	
		R946	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	

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		R948	0RH0472D622	RESISTOR, CHIP, 47 1/10W 5 D.R/TP	
		ZD704	0RD3001F609	RESISTOR, FIXED CARBON FILM, 3.0K 1/6W 5 TA52	
		VR451	180-502D	VOLUME, EC11B15B0Z01, NON-CLICK, ENCORD V/R	
		VR702	180-035G	VOLUME, EVN-DJAA03B13 (MEC), 1KB	
		VR901	180-035D	VOLUME, EVN-DJAA03B32 (MEC), 300B	
OTHERs					
!		F/HOLDER	430-858C	FUSE HOLDER, AFC-520 (BAEEUN)	
		F901	131-040C	FUSE, HBC 250V 3.15A UL/S TRIAD	
		P103	366-167A	WAFER, BW-501S (17MM)	
		P401	366-183H	WAFER, MOLEX, 53014-0910	
		P402	366-921E	WAFER, IL-G 6(2.5S)	
		P451	366-184H	PIN, MOLEX, 53015-0910	
		P452	366-184F	PIN, MOLEX, 53015-0710	
		P453	366-184F	PIN, MOLEX, 53015-0710	
		P501	366-921B	WAFER, IL-G 3(2.5S)	
!		P701	366-112D	PIN, BW-504L (BAEEUN)	
!		P901	381-228E	SOCKET, 03ME3D(MW)-K	
		P902	366-112B	PIN, BW-502L(BAEEUN)	
		P904	366-183J	PIN, MOLEX, 53014-1010	
		P905	366-183H	WAFER, MOLEX, 53014-0910	
		PG101	385-141A	METAL, GROUND	
		PG102	385-141A	METAL, GROUND	
		PG103	385-141A	METAL, GROUND	
		RL701	141-014B	RELAY, UT205-12SC (YUYU)	
!		RL901	6920TBD001A	RELAY, DC JW2HN-DC9V (MATSUSHITA)	
		SW451	140-058D	SWITCH, TACT SKHV 10911A (7MM)	
		SW452	6600TR3001A	SWITCH, TACT ESE11SH1 (MATSUSHITA)	
		SW453	6600TR3001A	SWITCH, TACT ESE11SH1 (MATSUSHITA)	
		SW454	6600TR3001A	SWITCH, TACT ESE11SH1 (MATSUSHITA)	
		SW455	6600TR3001A	SWITCH, TACT ESE11SH1 (MATSUSHITA)	
		SW456	140-058D	SWITCH, TACT SKHV 10911A (7MM)	
		SW701	140-079A	SWITCH, BAND SELECTION (JRS-1301)	
!		T501	151-483E	COIL, DUMMY EER3435, 1.0MH,CS592	
!		T701	6174Z-2001G	FBT (FLY BACK TRANSFORMER), FMMPC11	
!		T702	6170TCZ001A	TRANSFORMER, HORIZONTAL DRIVER H-DRIVE, EI2218, 3.8MH	
!		T901	6170TMZ023A	TRANSFORMER, SMPS EER4045 16PIN CS599 SI/JS	
!		T902	151-414E	TRANSFORMER, PULSE D/D PULSE TRANS (NAMYANG)	
!		TH901	163-053C	THERMISTOR, J502P53D140M220 (JAHWA)	
		X401	6202TTB001A	CRYSTAL, HC-49/U SUNNY E 6.000000MHZ 30PPM 1	

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VIDEO BOARD					
CAPACITORs					
		C301	0CE1046K618	CAPACITOR, 0.1U SMS 50V M FM5 TP5	
		C302	0CE1046K618	CAPACITOR, 0.1U SMS 50V M FM5 TP5	
		C303	0CE1046K618	CAPACITOR, 0.1U SMS 50V M FM5 TP5	
		C304	0CE4766F618	CAPACITOR, 47U SMS 16V M FM5 TP5	
		C305	0CE4766F618	CAPACITOR, 47U SMS 16V M FM5 TP5	
		C306	0CE2276F618	CAPACITOR, 220UF SMS 16V M FL TP5	
		C307	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C308	0CE105BR638	CAPACITOR, 1.0U KME 250V M FM5 TP5	
		C309	0CE105BR638	CAPACITOR, 1.0U KME 250V M FM5 TP5	
		C310	0CE105BR638	CAPACITOR, 1.0U KME 250V M FM5 TP5	
		C311	181-288E	CAPACITOR, POLYESTER, MKT 100V 474JTR PHS 26474	
		C312	0CE4766H618	CAPACITOR, 47M SMS 25V M FL TP(5)	
		C313	0CE106CR630	CAPACITOR, AL.ELECTROLYTIC, 10UF SHL 250V M FM5 BULK	
		C314	0CE1076N630	CAPACITOR, AL.ELECTROLYTIC, 100U SMS 100V M FM5	
		C316	0CE2276F618	CAPACITOR, 220UF SMS 16V M FL TP5	
		C317	0CE1076F618	CAPACITOR, 100UF SMS 16V M TP(5)	
		C318	181-288K	CAPACITOR, POLYESTER, MKT 100V 683JTR PHS26683	
		C319	181-288B	CAPACITOR, POLYESTER, MKT 100V 104JTR PHS26104	
		C320	0CK1020W515	CAPACITOR, 1000P 500V K B TS	
		C322	0CK10301510	CAPACITOR, CERAMIC HIGH DIELEC 0.01M 1KV K B S	
		C323	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C324	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C325	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C326	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C327	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C328	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C329	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C330	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C331	181-288E	CAPACITOR, POLYESTER, MKT 100V 474JTR PHS 26474	
		C332	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C334	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C335	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C336	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C337	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C338	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C339	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C340	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C341	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C342	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C343	0CN1040K949	CAPACITOR, 0.1UF 50V Z F TA52	
		C345	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C348	181-288M	CAPACITOR, POLYESTER, MKT 63V 105KTR PHS15105	
		C350	0CK1020W515	CAPACITOR, 1000P 500V K B TS	
		C351	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	

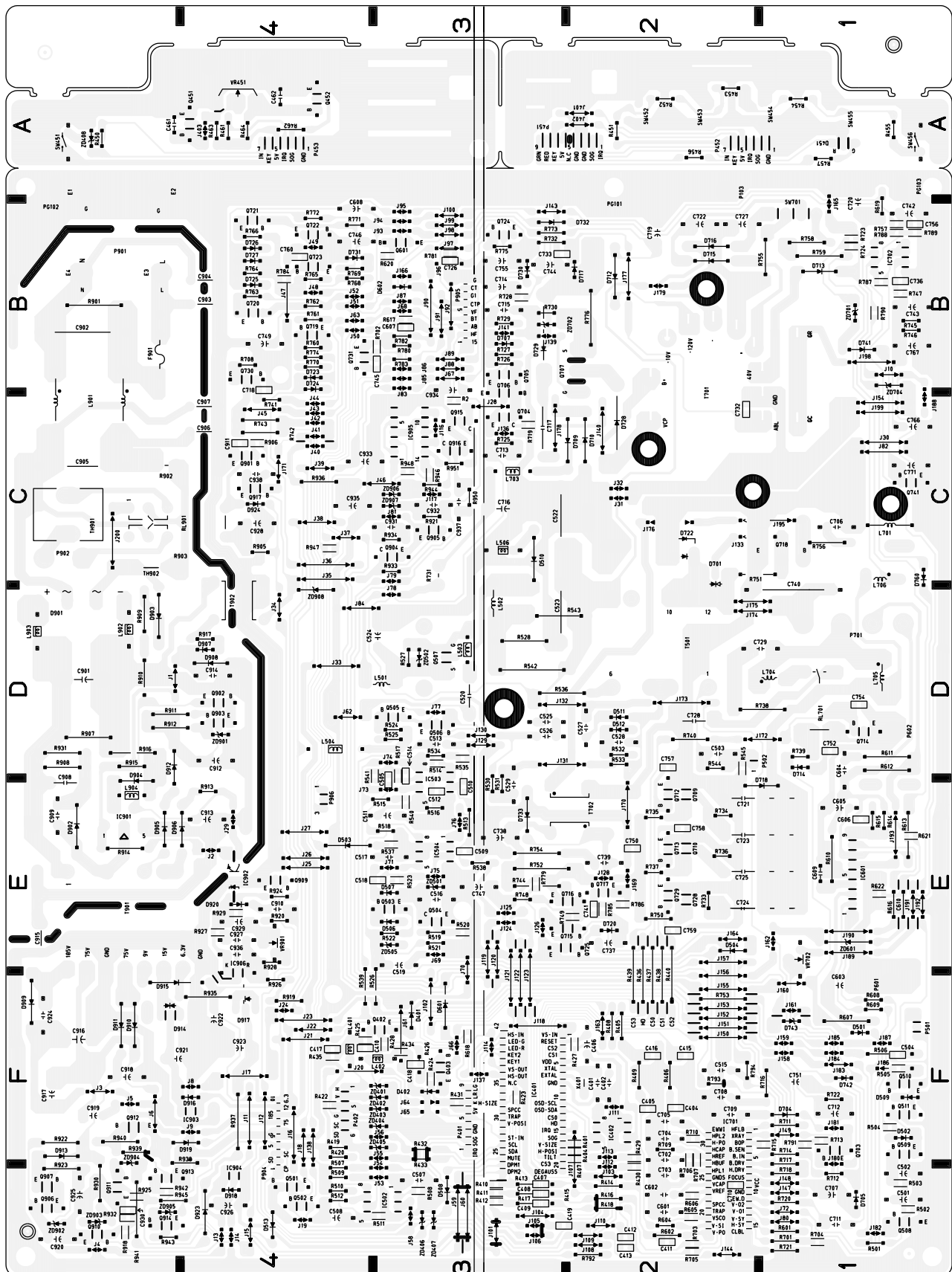
MODEL: StudioWorks 57i				DATE: 1997 . 5. 15.	
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	REMARK
		C352	0CH1104K946	CAPACITOR, CHIP, CERAMIC M/L HD 0.1M 50V Z 2.0*1.25 R/TP	
		C353	181-288E	CAPACITOR, POLYESTER, MKT 100V 474JTR PHS 26474	
		C354	181-288E	CAPACITOR, POLYESTER, MKT 100V 474JTR PHS 26474	
		C355	0CH4121K406	CAPACITOR, CHIP, CERAMIC M/L TC 120P 50V J SL 2.0X1.2 R/P	
		C356	0CH4121K406	CAPACITOR, CHIP, CERAMIC M/L TC 120P 50V J SL 2.0X1.2 R/P	
DIODEs					
		D301	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D302	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D303	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D304	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D305	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D306	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D307	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D308	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D309	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D310	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D311	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D312	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D313	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D314	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D315	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D320	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D321	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
		D322	0DD131009AC	DIODE, SWITCHING, 1SS131, SWIT TP, ROHM	
ICs					
		IC301	0INS240500A	IC, NATIONAL SEMICONDU TO, LM2405	
		IC302	0IMO132820C	IC, MOTOROLA, MC13282EP NDIP 24 BK PRE AMP	
		IC303	0IMO438200A	IC, MOTOROLA, LSC4382 24PIN NARROW BK OSD GR	
COILs & COREs					
		L304	125-155J	CORE (CIRC), FERRITE BEAD (BFS2550A0FG), SAMHWA	
		L305	125-155J	CORE (CIRC), FERRITE BEAD (BFS2550A0FG), SAMHWA	
		L306	125-155J	CORE (CIRC), FERRITE BEAD (BFS2550A0FG), SAMHWA	
		L307	0LA0220K119	INDUCTOR, AXIAL LEAD 0.22UH K 2.3*3.4 TP	
		L308	0LA0220K119	INDUCTOR, AXIAL LEAD 0.22UH K 2.3*3.4 TP	
		L309	0LA0220K119	INDUCTOR, AXIAL LEAD 0.22UH K 2.3*3.4 TP	
		L310	125-155J	CORE (CIRC), FERRITE BEAD (BFS2550A0FG), SAMHWA	
		L311	125-155J	CORE (CIRC), FERRITE BEAD (BFS2550A0FG), SAMHWA	
		L312	125-155A	CORE (CIRC), FERRITE BEAD (BFD3510R2FG), SAMHWA	
		L313	0LA1000K119	INDUCTOR, AXIAL LEAD 100UH K 2.3*3.4 TP	
		L314	125-155J	CORE (CIRC), FERRITE BEAD (BFS2550A0FG), SAMHWA	
		L315	125-155B	CORE (CIRC), FERRITE BEAD (BFS3580R2FG), SAMHWA	

MODEL: StudioWorks 57i				DATE: 1997 . 5. 15.	
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	REMARK
		L316	125-155B	CORE (CIRC), FERRITE BEAD (BFS3580R2FG), SAMHWA	
		L317	125-155B	CORE (CIRC), FERRITE BEAD (BFS3580R2FG), SAMHWA	
		L318	125-155A	CORE (CIRC), FERRITE BEAD (BFD3510R2FG), SAMHWA	
		L319	125-155J	CORE (CIRC), FERRITE BEAD (BFS2550A0FG), SAMHWA	
		L321	125-155B	CORE (CIRC), FERRITE BEAD (BFS3580R2FG), SAMHWA	
		L322	125-155A	CORE (CIRC), FERRITE BEAD (BFD3510R2FG), SAMHWA	
		L323	125-155G	CORE (CIRC), FERRITE BEAD (BFS3550R2FG), SAMHWA	
		L324	125-155B	CORE (CIRC), FERRITE BEAD (BFS3580R2FG), SAMHWA	
		L325	0LA0220K119	INDUCTOR, AXIAL LEAD 0.22UH K 2.3*3.4 TP	
		L326	0LA0220K119	INDUCTOR, AXIAL LEAD 0.22UH K 2.3*3.4 TP	
		L327	0LA0220K119	INDUCTOR, AXIAL LEAD 0.22UH K 2.3*3.4 TP	
TRANSISTORS					
		Q301	0TR390409CA	TRANSISTOR, 2N3904 TP, SAMSUNG	
		Q302	0TR320509AB	TRANSISTOR, KTC3205-Y (KTC2236A) TP, KEC	
		Q303	0TR102409AB	TRANSISTOR, KTA1024-Y (KTA949) TP, KEC	
		Q304	0TR102409AB	TRANSISTOR, KTA1024-Y (KTA949) TP, KEC	
		Q305	0TR102409AB	TRANSISTOR, KTA1024-Y (KTA949) TP, KEC	
RESISTORS					
		R301	0RH0752D622	RESISTOR, CHIP, 75 1/10W 5 D.R/TP	
		R302	0RH0752D622	RESISTOR, CHIP, 75 1/10W 5 D.R/TP	
		R303	0RH0752D622	RESISTOR, CHIP, 75 1/10W 5 D.R/TP	
		R304	0RN0220H609	RESISTOR, FIXED METAL FILM, 0.22 1/2W 5% TA52	
		R304	971-0016	WIRE, TIN HDC 0.60H	
		R307	0RD2202F609	RESISTOR, FIXED CARBON FILM, 22K 1/6W 5 TA52	
		R308	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R309	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R310	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R311	0RH3300D622	RESISTOR, CHIP, 330 1/10W 5 D.R/TP	
		R312	0RH3300D622	RESISTOR, CHIP, 330 1/10W 5 D.R/TP	
		R313	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R314	0RD1000F609	RESISTOR, FIXED CARBON FILM, 100 1/6W 5 TA52	
		R315	0RH3300D622	RESISTOR, CHIP, 330 1/10W 5 D.R/TP	
		R316	0RD0102F609	RESISTOR, FIXED CARBON FILM, 10 1/6W 5 TA52	
		R317	0RD0102F609	RESISTOR, FIXED CARBON FILM, 10 1/6W 5 TA52	
		R318	0RD0102F609	RESISTOR, FIXED CARBON FILM, 10 1/6W 5 TA52	
		R319	0RD0101F609	RESISTOR, FIXED CARBON FILM, 1.0 1/6W 5 TA52	
		R320	0RD1000Q609	RESISTOR, FIXED CARBON FILM, 100 1/4W(3 5% TA52	
		R322	0RD3900Q609	RESISTOR, FIXED CARBON FILM, 390 1/4W(3 5% TA52	
		R324	0RD0332H609	RESISTOR, FIXED CARBON FILM, 33 1/2W 5 TA52	
		R325	0RD1000Q609	RESISTOR, FIXED CARBON FILM, 100 1/4W(3 5% TA52	
		R326	0RD3900Q609	RESISTOR, FIXED CARBON FILM, 390 1/4W(3 5% TA52	
		R328	0RD0332H609	RESISTOR, FIXED CARBON FILM, 33 1/2W 5 TA52	

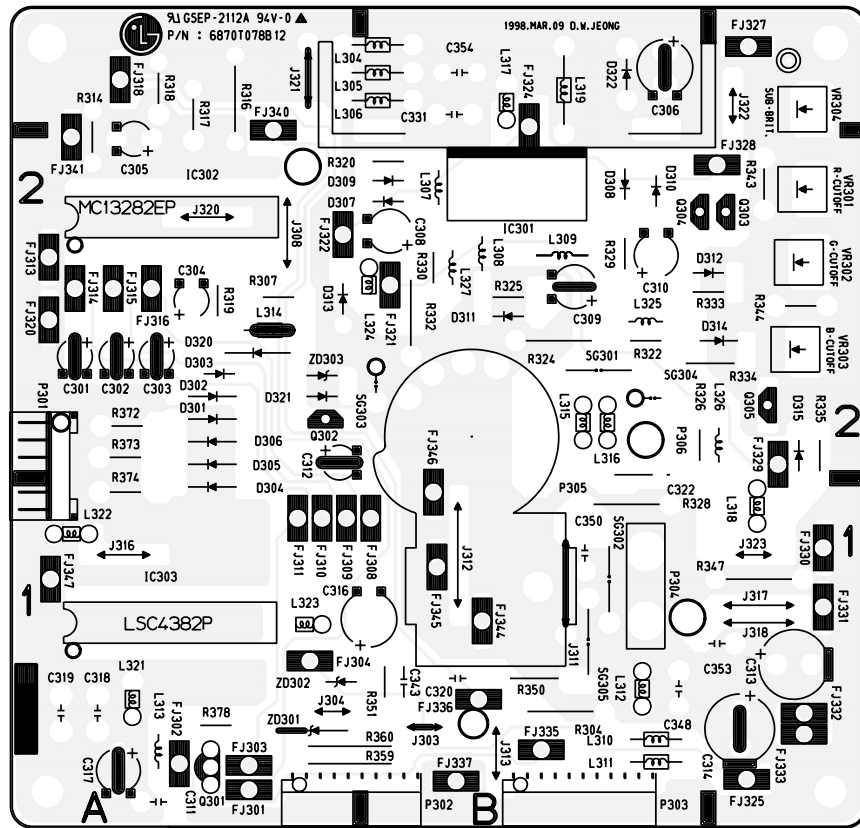
MODEL: StudioWorks 57i				DATE: 1997 . 5. 15.	
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	REMARK
		R329	0RD1000Q609	RESISTOR, FIXED CARBON FILM, 100 1/4W(3 5% TA52	
		R330	0RD3900Q609	RESISTOR, FIXED CARBON FILM, 390 1/4W(3 5% TA52	
		R332	0RD0332H609	RESISTOR, FIXED CARBON FILM, 33 1/2W 5 TA52	
		R333	0RD1004F609	RESISTOR, FIXED CARBON FILM, 1.0M 1/6W 5 TA52	
		R334	0RD1004F609	RESISTOR, FIXED CARBON FILM, 1.0M 1/6W 5 TA52	
		R335	0RD1004F609	RESISTOR, FIXED CARBON FILM, 1.0M 1/6W 5 TA52	
		R336	0RH5602D622	RESISTOR, CHIP, 56K 1/10W 5 D.R/TP	
		R337	0RH5602D622	RESISTOR, CHIP, 56K 1/10W 5 D.R/TP	
		R338	0RH5602D622	RESISTOR, CHIP, 56K 1/10W 5 D.R/TP	
		R339	0RH7502D622	RESISTOR, CHIP, 75K 1/10W 5 D.R/TP	
		R340	0RH2003D622	RESISTOR, CHIP, 200K 1/10W 5 TA	
		R341	0RH7502D622	RESISTOR, CHIP, 75K 1/10W 5 D.R/TP	
		R342	0RH6801D622	RESISTOR, CHIP, 6.8K 1/10W 5 D.R/TP	
		R343	0RD4702F609	RESISTOR, FIXED CARBON FILM, 47K 1/6W 5 TA52	
		R344	0RD6801F609	RESISTOR, FIXED CARBON FILM, 6.8K 1/6W 5 TA52	
		R347	0RX1502J609	RESISTOR, SMALL FIX METAL FILM, OXIDE15KOHM 1 W 5%	
		R350	0RD1500F609	RESISTOR, FIXED CARBON FILM, 150 1/6W 5 TA52	
		R351	0RD5602F609	RESISTOR, FIXED CARBON FILM, 56K 1/6W 5 TA52	
		R352	0RH2001D622	RESISTOR, CHIP, 2.0K 1/10W 5 D.R/TP	
		R353	0RH1001D622	RESISTOR, CHIP, 1.0K 1/10W 5 D.R/TP	
		R354	0RH1001D622	RESISTOR, CHIP, 1.0K 1/10W 5 D.R/TP	
		R355	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R356	0RH5601D622	RESISTOR, CHIP, 5.6K 1/10W 5 D.R/TP	
		R357	0RH1004D622	RESISTOR, CHIP, 1.0M 1/10W 5 D.R/TP	
		R358	0RH1501D622	RESISTOR, CHIP, 1.5K 1/10W 5 D.R/TP	
		R359	0RD1000F609	RESISTOR, FIXED CARBON FILM, 100 1/6W 5 TA52	
		R360	0RD1000F609	RESISTOR, FIXED CARBON FILM, 100 1/6W 5 TA52	
		R361	0RH5602D622	RESISTOR, CHIP, 56K 1/10W 5 D.R/TP	
		R362	0RH5602D622	RESISTOR, CHIP, 56K 1/10W 5 D.R/TP	
		R363	0RH1801D422	RESISTOR, CHIP, 1800 OHM 1 / 10 W 1% D R/TP	
		R364	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R365	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R366	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R367	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R368	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R369	0RH1503D622	RESISTOR, CHIP, 150K 1/10W 5 D.R/TP	
		R371	0RH5602D622	RESISTOR, CHIP, 56K 1/10W 5 D.R/TP	
		R372	0RD0752F609	RESISTOR, FIXED CARBON FILM, 75 1/6W 5% TA	
		R373	0RD0752F609	RESISTOR, FIXED CARBON FILM, 75 1/6W 5% TA	
		R374	0RD0752F609	RESISTOR, FIXED CARBON FILM, 75 1/6W 5% TA	
		R375	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R376	0RH3901D622	RESISTOR, CHIP, 3.9K 1/10W 5 D.R/TP	
		R377	0RH0000D622	RESISTOR, CHIP, 0 1/10W P-TYPE TAPPING	
		R378	0RD1002F609	RESISTOR, FIXED CARBON FILM, 10K 1/6W 5 TA52	
		ZD301	0DZ560009AA	DIODE, ZENER, MTZ5.6B, TP (52MM), ROHM	

MODEL: StudioWorks 57i				DATE: 1997 . 5. 15.	
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	REMARK
		ZD302	0DZ560009AA	DIODE, ZENER, MTZ5.6B, TP (52MM), ROHM	
		ZD303	0DZ820009AA	DIODE, ZENER, MTZ8.2B, TP (52MM), ROHM	
		VR301	180-037S	VOLUME, EVN-DCAA03B54 (MEC), 50KB	
		VR302	180-037S	VOLUME, EVN-DCAA03B54 (MEC), 50KB	
		VR303	180-037S	VOLUME, EVN-DCAA03B54 (MEC), 50KB	
OTHERs					
		P301	366-922E	WAFER, IL-G(AN) 6P 2.5M/M	
		P302	366-184H	PIN, MOLEX, 53015-0910	
		P303	366-184J	PIN, MOLEX, 53015-1010	
		P304	366-112B	PIN, BW-502L(BAEEUN)	
		P305	381-199B	SOCKET, CPT PCS626-01(PARK)	
		P306	366-167A	WAFER, BW-501S (17MM)	
		SG301	6918TAT001A	SPARK GAP, DSP-301N-A21F	
		SG302	6918TAT001A	SPARK GAP, DSP-301N-A21F	
		SG303	6918TRT001A	SPARK GAP, DSP-301N-C04F	
		SG304	165-004A	SPARK GAP, AG20PT 152F-L3N/S-23	
		SG305	6918TAT001A	SPARK GAP, DSP-301N-A21F	
MISCELLANEOUS					
⚠		CDT	2423GB0A84R	CDT SET, ITC M36LBL803X 08N6LD, NORTHERN HEMISPHERE	
⚠	or	CDT	2423GB0A84U	CDT SET, ITC M36LBL803X 08S6LD, SOUTHERN HEMISPHERE	
		P/CORD	174-206F	POWER CORD, WALL, 6FT, IVORY, NS, (I-SHENG) FOR USA/CAN	
	or	P/CORD	174-200E	POWER CORD, PC-OUT, 5FT, IVORY, FOR EUROPE	
	or	P/CORD	6410TSP001A	POWER CORD, PC-OUT, 5FT, IVORY, FOR CIS	
		S/CABLE	6866TA9006F	SIGNAL CABLE, 2990-9C, AT, L1520, IVORY	
		P401-P451	6631T20001Q	CONNECTOR ASSY, 9P, H-H, L160, UL1061#26 (CS592)	
		P452-P453	387-856K	CONNECTOR ASSY, 7P 2.0 H-H L200	
		P904-P303	6631T20002E	CONNECTOR ASSY, 10P, H-H, L340, UL2851 #24-4C (UL TUBE)	
		P905-P302	6631T20002D	CONNECTOR ASSY, 9P, H-H, L160, UL1061 #26 (UL TUBE CS)	

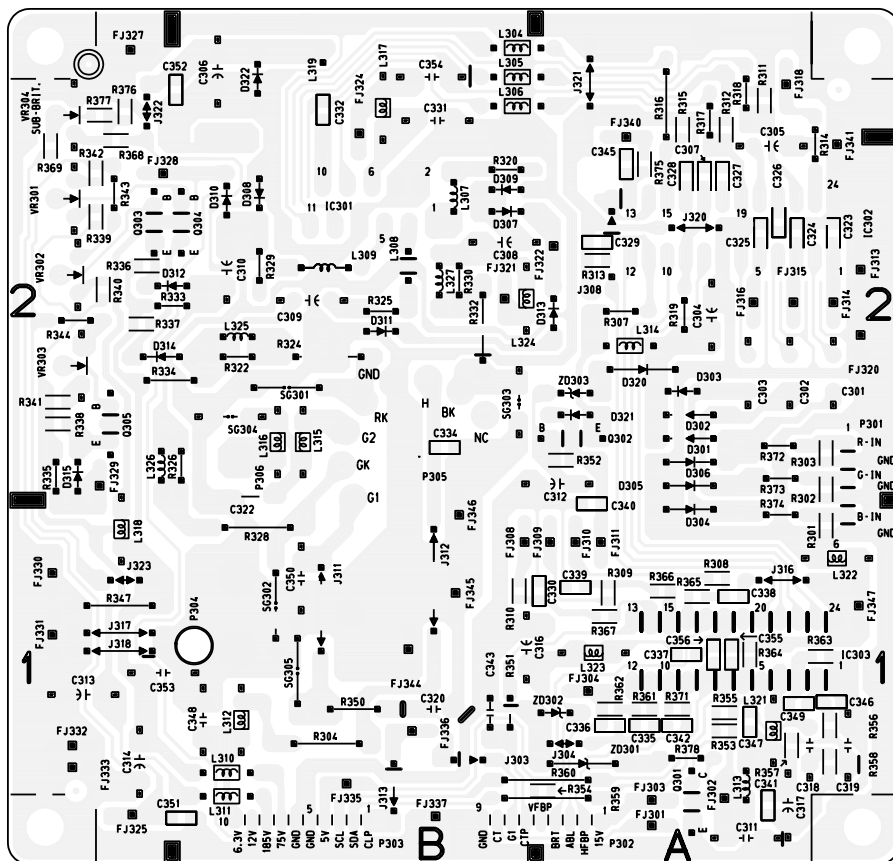
2. MAIN BOARD (Solder Side)



3. VIDEO BOARD (Component Side)

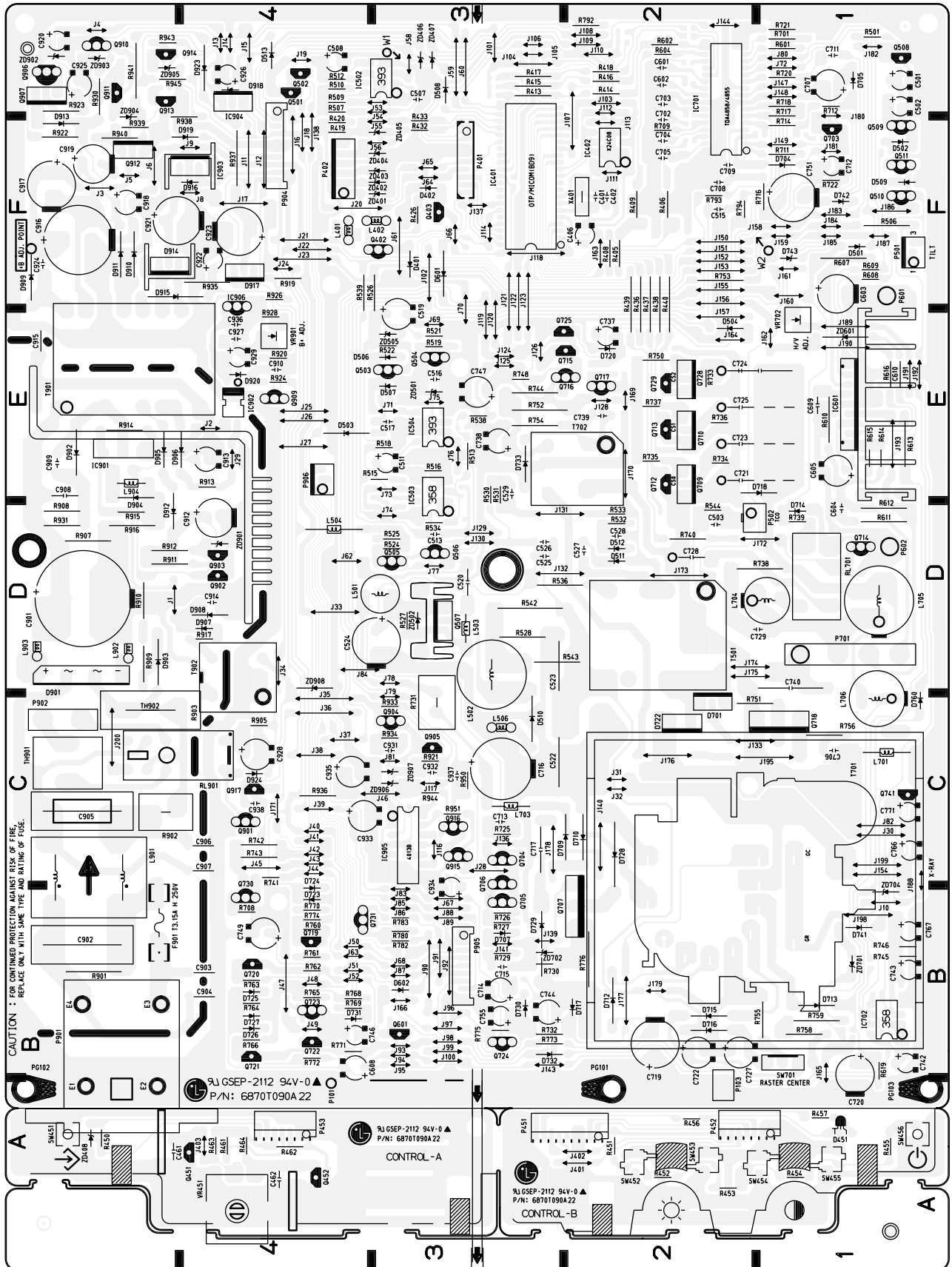


4. VIDEO BOARD (Solder Side)

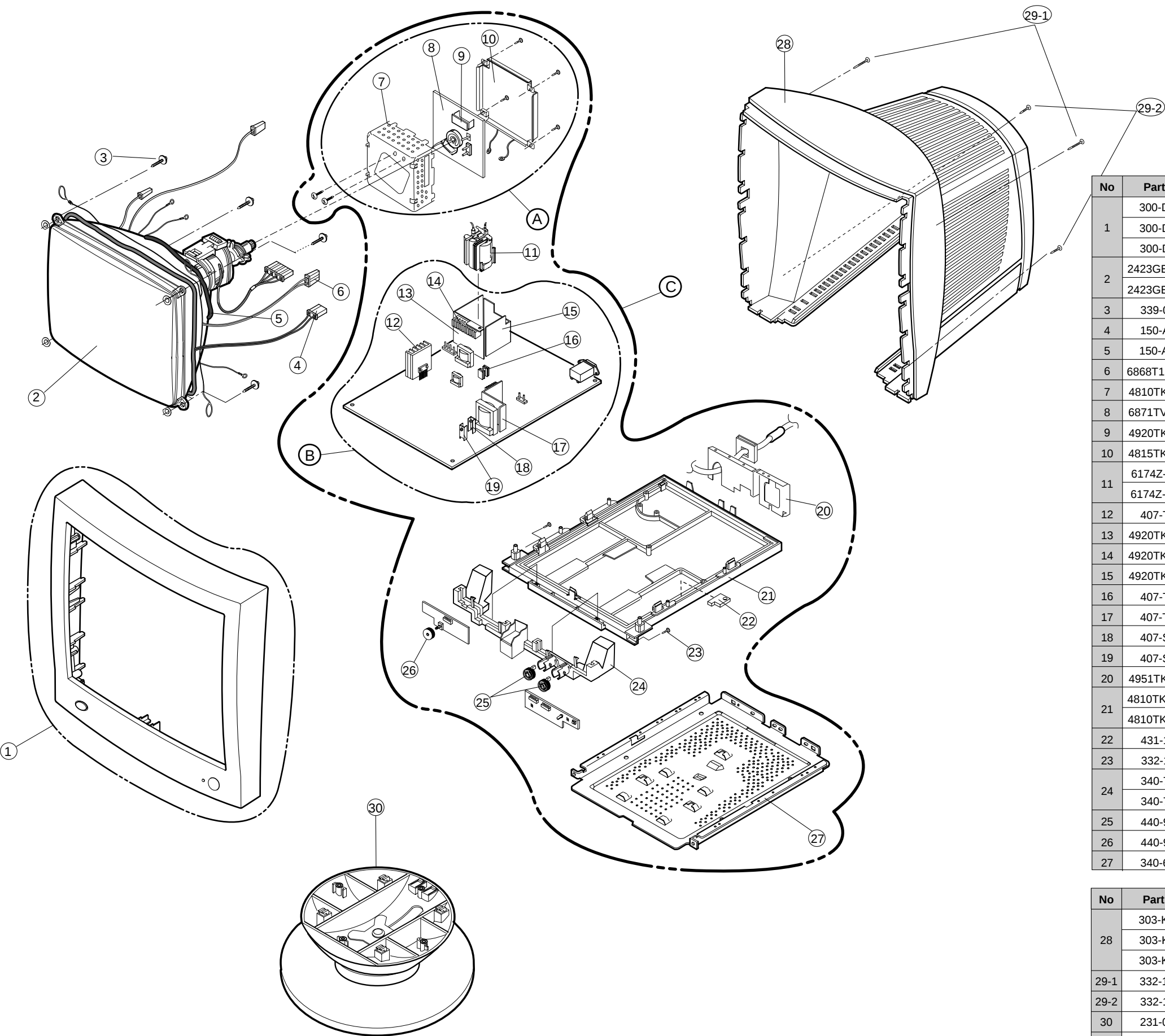


PRINTED CIRCUIT BOARD

1. MAIN BOARD (Component Side)



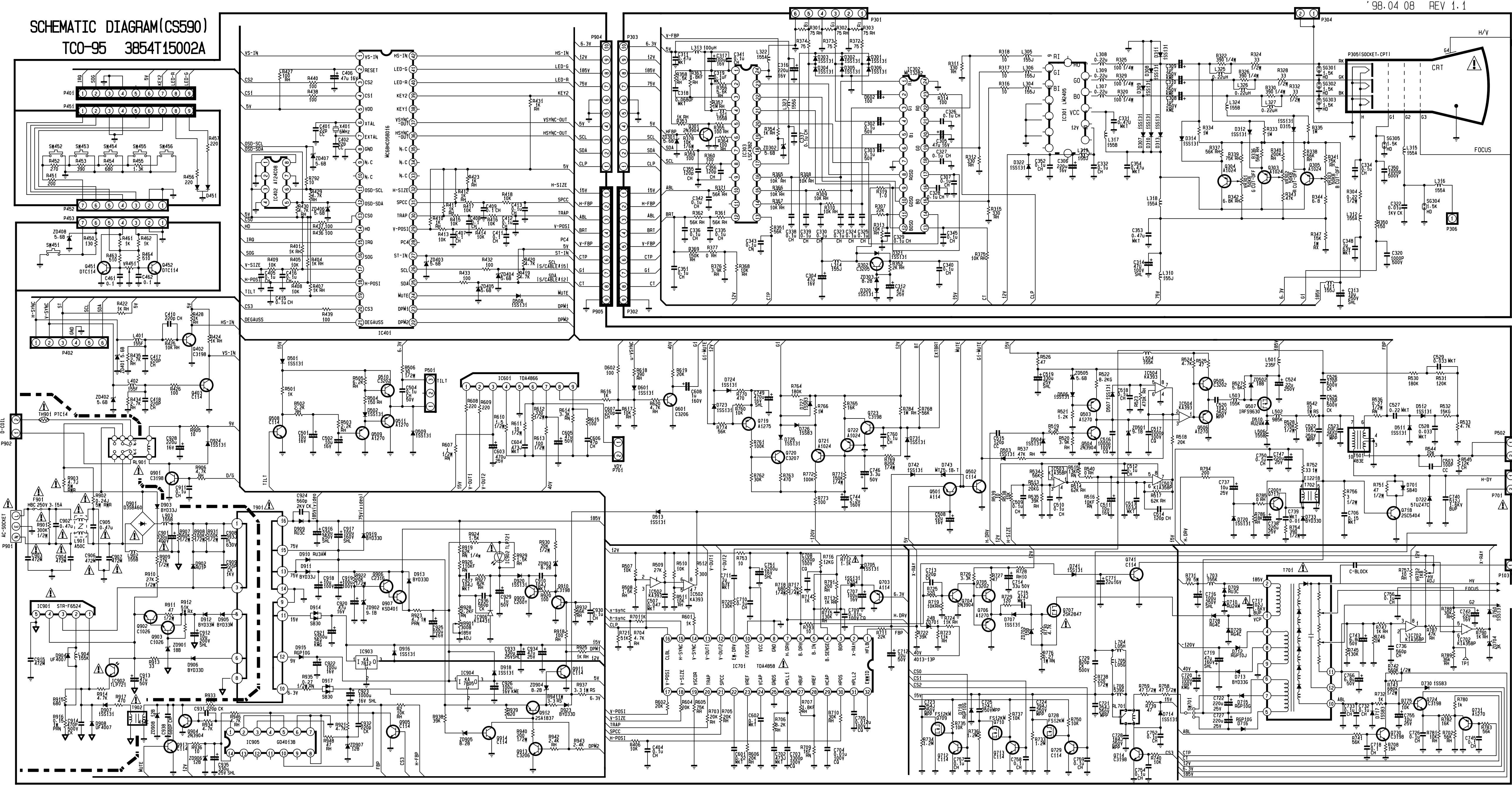
EXPLODED VIEW FOR MPR-II



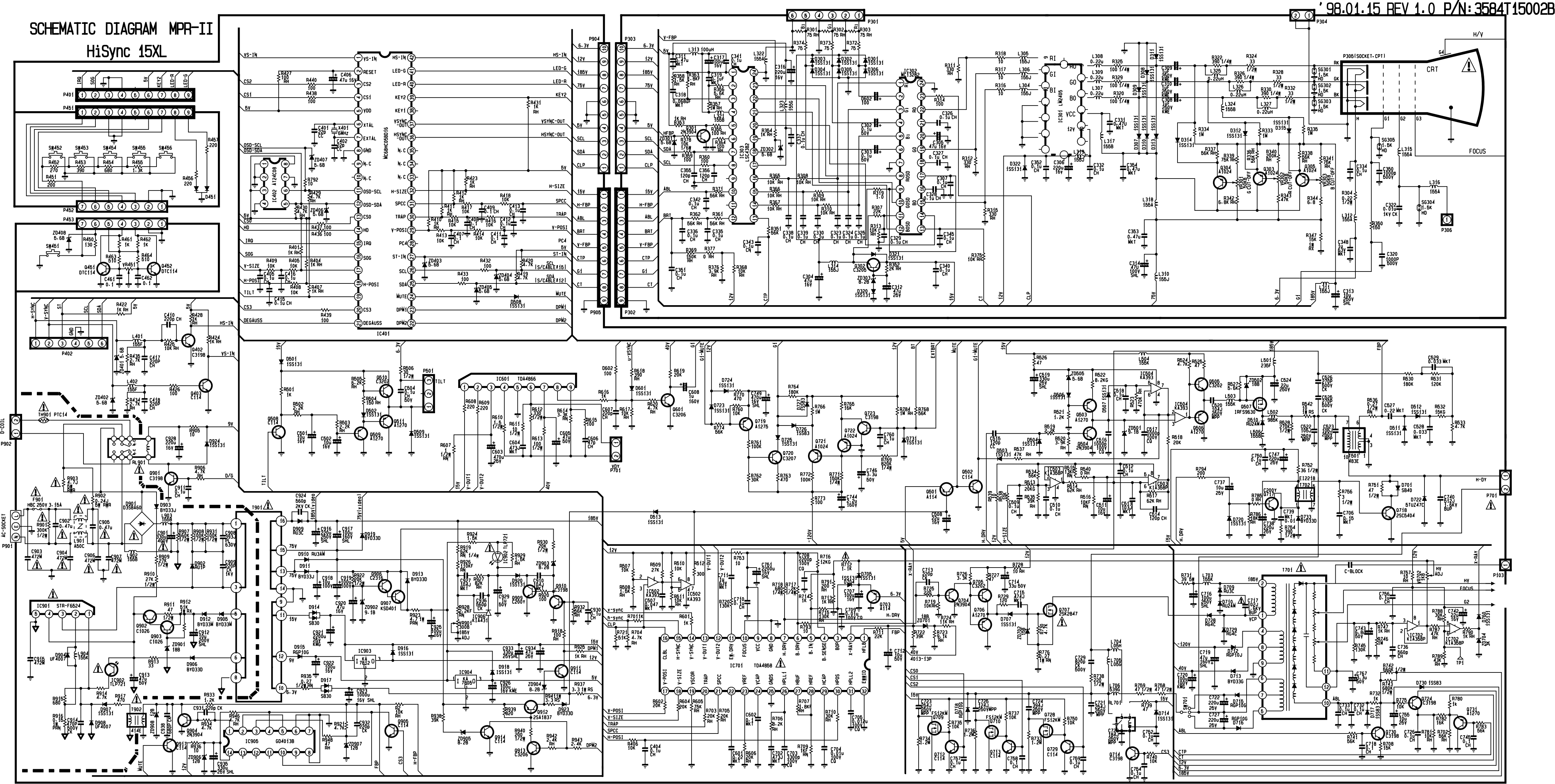
EXPLODED VIEW PARTS LIST

No	Part No.	Description	Q'ty	Material
1	300-D30Q	CABINET, FOR TCO-95 , LG LOGO	1	LGC LUPOY GN-5001TF/GE CYCOLOY C2800
	300-D30R	CABINET, FOR MPR-II , LG LOGO		LGC ABS AF303S
	300-D30S	CABINET, FOR MPR-II , GoldStar LOGO		
2	2423GB0A84R	CRT, M36LBL803X08N, NORTHERN HEMISPHERE	1	
	2423GB0A84U	CRT, M36LBL803X08S, SOUTHERN HEMISPHERE		
3	339-002D	SCREW, PHP+5` 30BP+GW18	4	
4	150-A29B	DEGAUSSING COIL	1	
5	150-A29M	TILT COIL	1	
6	6868T150001B	CRT GROUND WIRE	1	
7	4810TKK022A	VIDEO SHIELD, BRACKET	1	AL
8	6871TVH032A	PCB ASS'Y, VIDEO	1	
9	4920TKP015A	PLATE, HEAT SINK FOR IC301	1	AL
10	4815TKV005C	CASE, VIDEO SHIELD REAR ASS'Y	1	STEEL
11	6174Z-1002A	FBT WITH C-BLOCK, FOR TCO-95	1	
	6174Z-2001G	FBT, FOR MPR-II		
12	407-T98B	PLATE, HEAT SINK FOR IC 601	1	AL
13	4920TKP017A	PLATE, HEAT SINK FOR Q718, D722	1	STEEL
14	4920TKC006A	PLATE, HEAT SINK FOR Q718, D722	1	AL
15	4920TKP016A	PLATE, HEAT SINK FOR Q707	1	AL
16	407-T20B	PLATE, HEAT SINK FOR Q507	1	AL
17	407-T73D	PLATE, HEAT SINK FOR IC901	1	AL
18	407-S88A	PLATE, HEAT SINK FOR D914	1	TERNE SHEET
19	407-S88A	PLATE, HEAT SINK FOR IC903	1	TERNE SHEET
20	4951TKS008A	METAL, REAR ASS'Y	1	
21	4810TKM015C	MAIN BRACKET, FOR TCO-95	1	LGC LUPOY GN-5001TF/GE CYCOLOY C2800
	4810TKM015A	MAIN BRACKET, FOR MPR-II		LGC ABS AF303S
22	431-128A	PIECE, HOLDER	1	ABS AF303S
23	332-102F	SCREW, PTP+4` 20BP	2	
24	340-733B	VOLUME BRACKET, FOR TCO-95	1	LGC LUPOY GN-5001TF/GE CYCOLOY C2800
	340-733A	VOLUME BRACKET, FOR MPR-II		LGC ABS AF303S
25	440-957A	KNOB, CONTROL	2	
26	440-958A	KNOB, CONTROL	1	
27	340-629C	BOTTOM SHIELD	1	STEEL

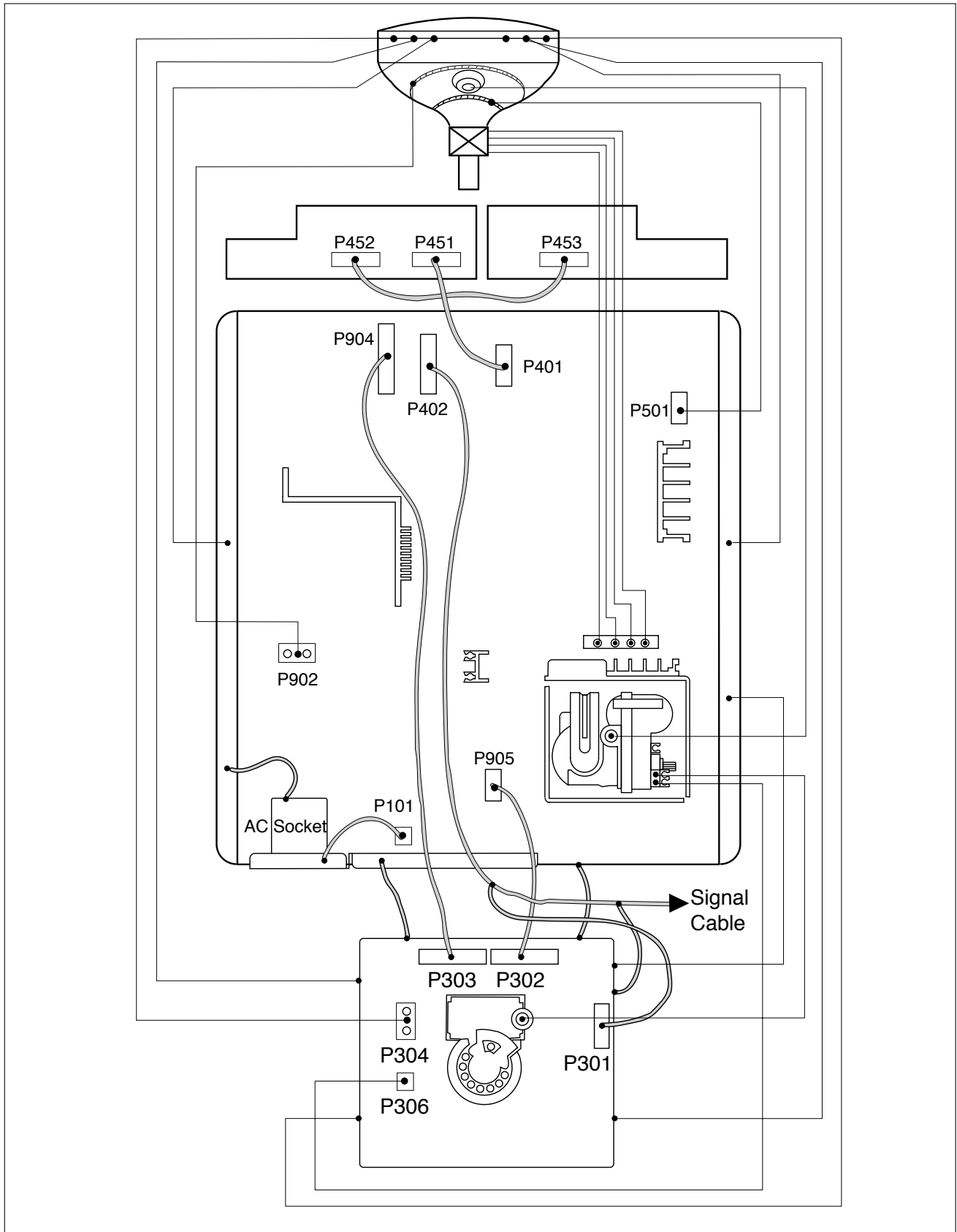
No	Part No.	Description	Q'ty	Material
28	303-K30G	BACK COVER, FOR TCO-95 - 35 -	1	LGC LUPOY GN-5001TF/GE CYCOLOY C2800
	303-K30A	BACK COVER, FOR MPR-II		LGC ABS AF303S
	303-K30D	BACK COVER, FOR MPR-II , FOR CIS		
29-1	332-102H	SCREW (TOP), PTP+4` 40	2	
29-2	332-102F	SCREW (BOTTOM), PTP+4` 20BP	2	
30	231-048A	TILT SWIVEL	1	HIPS 60HR
31	4950TKK024A	METAL, BRACKET, FOR TCO-95	1	
A	6871TVT029A	PCB ASS'Y, VIDEO TOTAL	1	
	6871TMT030A	PCB ASS'Y, MAIN TOTAL FOR TCO-95		
B	6871TMT030B	PCB ASS'Y, MAIN TOTAL FOR MPR-II	1	
	3313T15024A	CHASSIS ASS'Y, MAIN TOTAL FOR TCO-95		
C	3313T15024B	CHASSIS ASS'Y, MAIN TOTAL FOR MPR-II	1	



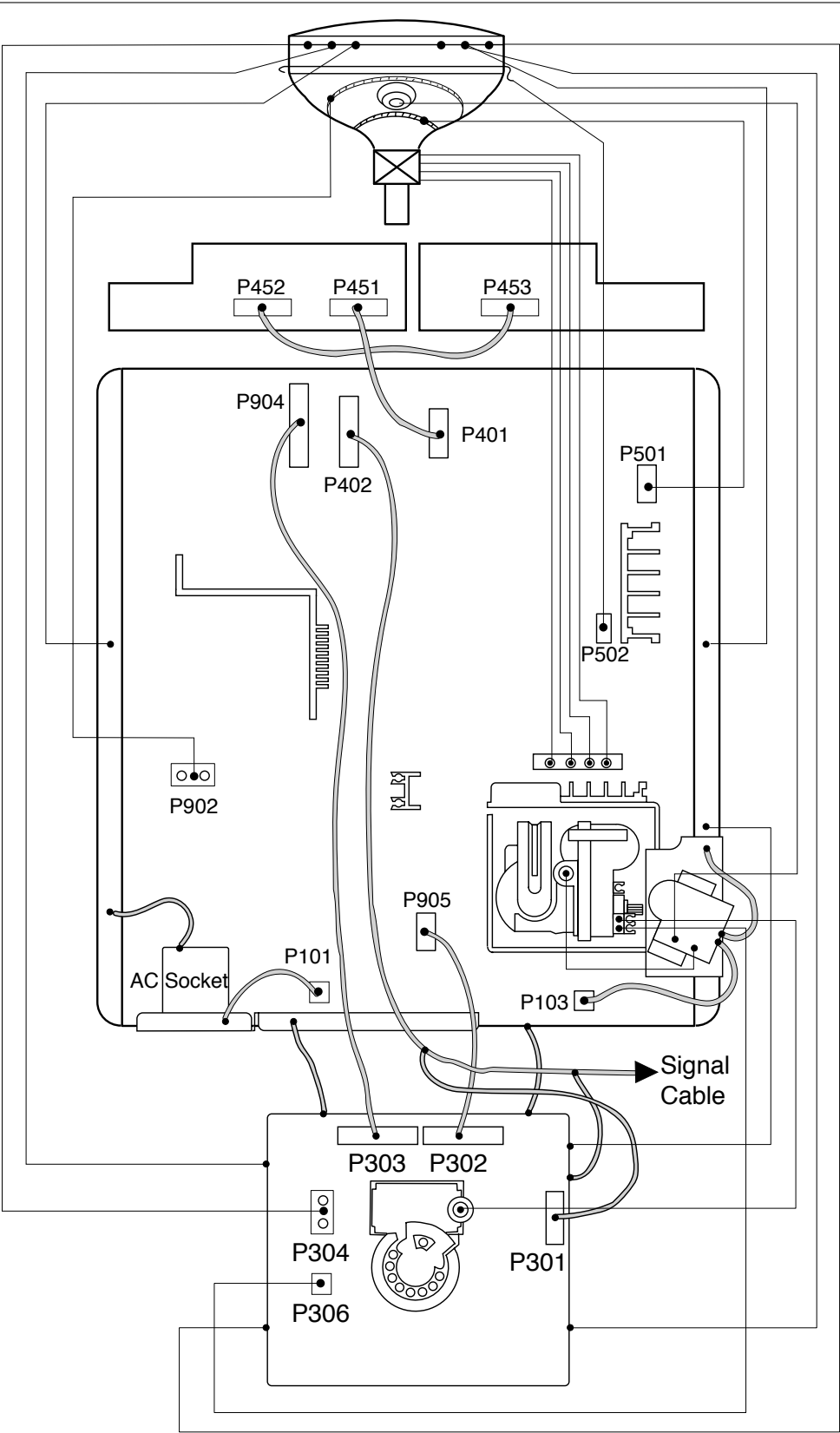
SCHEMATIC DIAGRAM MPR-II
HiSync 15XL



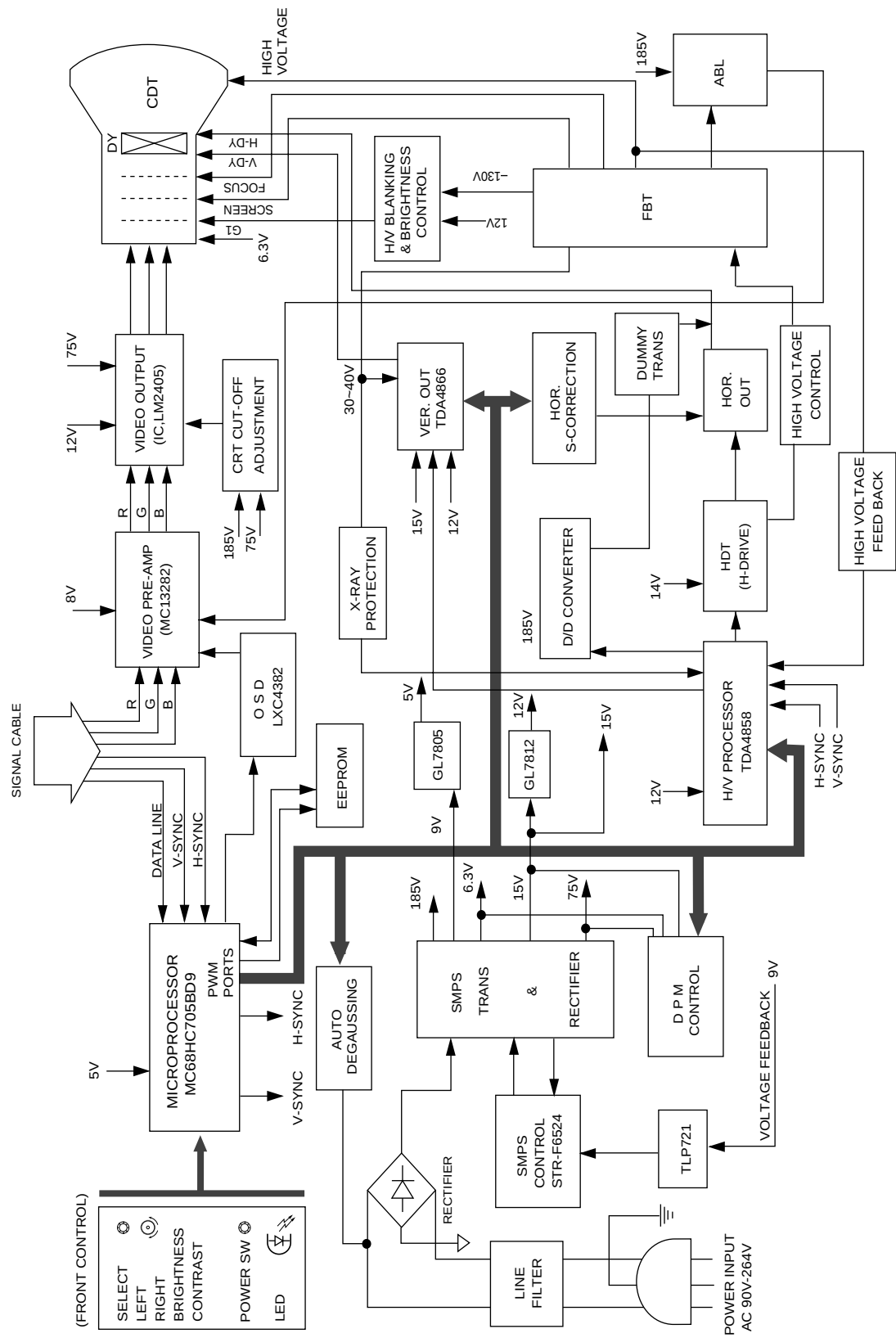
WIRING DIAGRAM (MPR-II)



WIRING DIAGRAM (TCO-95)



BLOCK DIAGRAM



DESCRIPTION OF BLOCK DIAGRAM

1. SMPS (Switching Mode Power Supply) Circuit

When you turn on the power switch, the operating procedure is as follows:

- 1) The AC line voltage is rectified by the bridge diode (D901).
- 2) The control IC (IC901) starts switching and generates switching pulses in the primary turn of the SMPS transformer (T901).
- 3) The switching pulses of the primary turns are induced the secondary turns of the transformer by the turn ratio. This pulses are rectified by each diode. (D909, D910, D911, D914, D915, and D917.)
- 4) Each rectified DC voltage (185V, 75V, 9V, 15V, and 6.3V) is supplied to the main circuit.

2. Over Voltage Protection Circuit

When the input voltage of IC901 Vin (pin4) is more than 22V, all the secondary voltages of the SMPS transformer (T901) down to low value.

3. Display Power Management Circuit

- 1) Stand-by and Suspend mode.
When no input of horizontal or vertical sync, Q909, Q910, Q911, Q912, Q913, and Q914 are turned off. Then the input power consumption is below 15 watts.
- 2) OFF mode.
When no input of horizontal and vertical sync, Q909, Q910, and Q911 are turned off. Then the input power consumption is below 8 watts.

4. X-ray Protection Circuit

When the high voltage reaches to 30kV in an abnormal case, the high voltage detector circuit, IC702, R787, R788, R789, R790, R791, ZD704 and IC701 starts operation to shut down high voltage circuit.

5. Microprocessor Control Circuit

The operating procedure is as follows:

- 1) Horizontal and vertical sync signals are supplied to the microprocessor (IC401).
- 2) Microprocessor (IC401) discriminates the operating mode from the sync polarity and resolution.
- 3) After microprocessor reads these adjusted mode data stored at EEPROM, it controls operating mode data through Pulse Width Modulation ports.
- 4) Users can be control screen condition by the Enter button and the OSD Select/Adjustment (◀▶) knob.

6. D/D Convert Circuit

To obtain constant high voltage, this circuit supplies controlled DC voltage for FBT and horizontal deflection circuit according to the horizontal sync frequency.

7. Horizontal and Vertical Sync Processor Circuit

The horizontal and vertical sync processor IC (IC701) has a sync detector, a saw-tooth generator, and drive function. So output horizontal and vertical drive signal, control screen distortions.

8. Horizontal S-correction Circuit

This circuit corrects the horizontal linearity for each horizontal sync frequency.

9. Horizontal Drive and Output Circuit

This circuit is a horizontal deflection amplifier for raster scan.

10. ABL Circuit

This circuit limits the beam-current for the reliability of CRT.

11. Vertical Output Circuit

This circuit takes the vertical ramp wave from the TDA4858 (IC701) and performs the vertical deflection by supplying the saw-tooth wave current to the vertical deflection yoke.

12. Blanking and Brightness Control Circuit

Blanking circuit eliminates the retrace line by supplying a negative pulse wave to the G1 of the CRT, and brightness control circuit is used for control of the screen brightness by changing the DC level of G1.

13. Video Processor Circuit

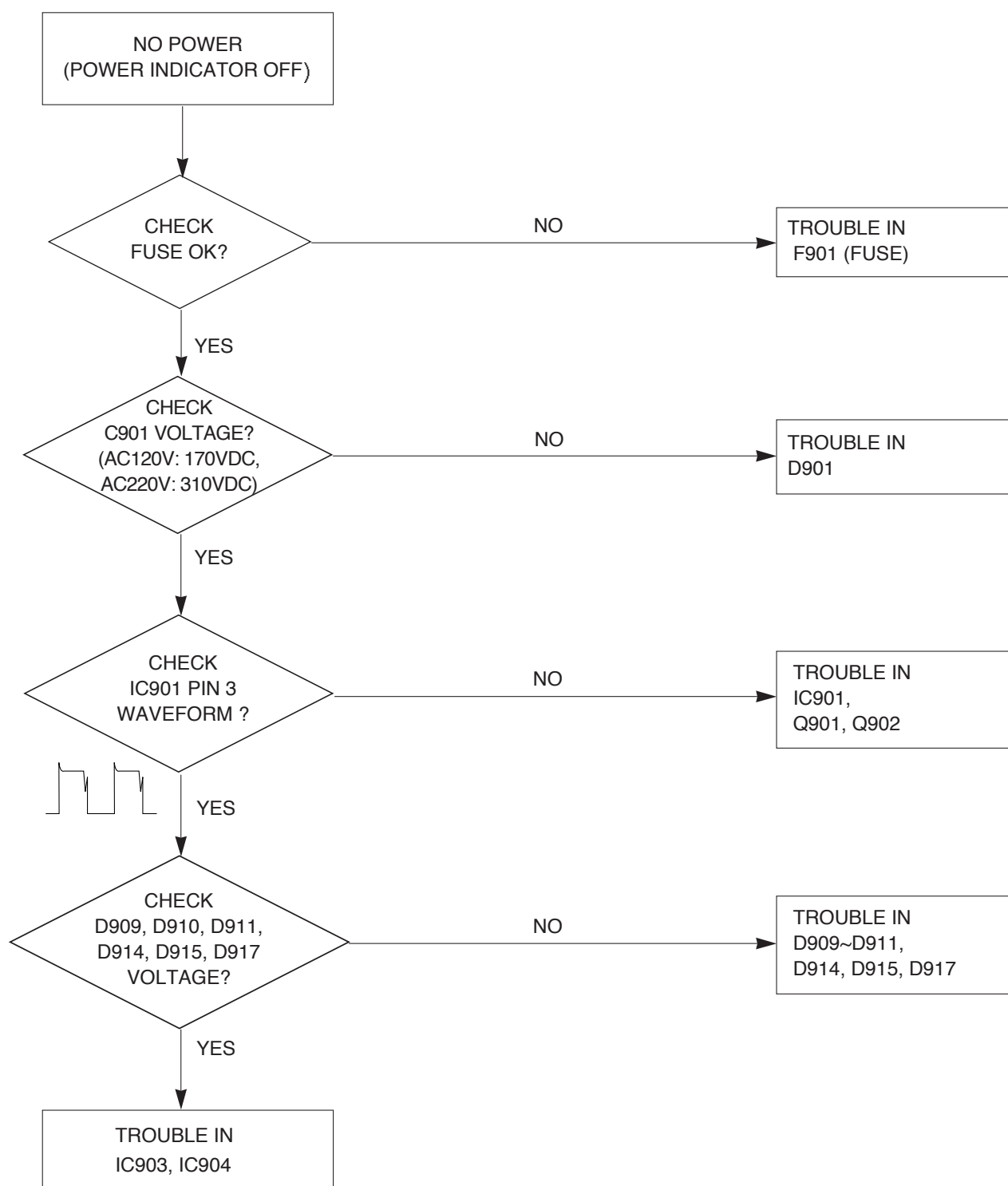
Video processor circuit consists of the video drive output block. The video drive IC (IC302) receives the video signal from PC. The gain of each channel is controlled by the voltage of contrast pin.
Cut-off circuit compensate different voltage of each channel between the cathode and the G1 of CDT.

14. OSD (On Screen Display) Circuit

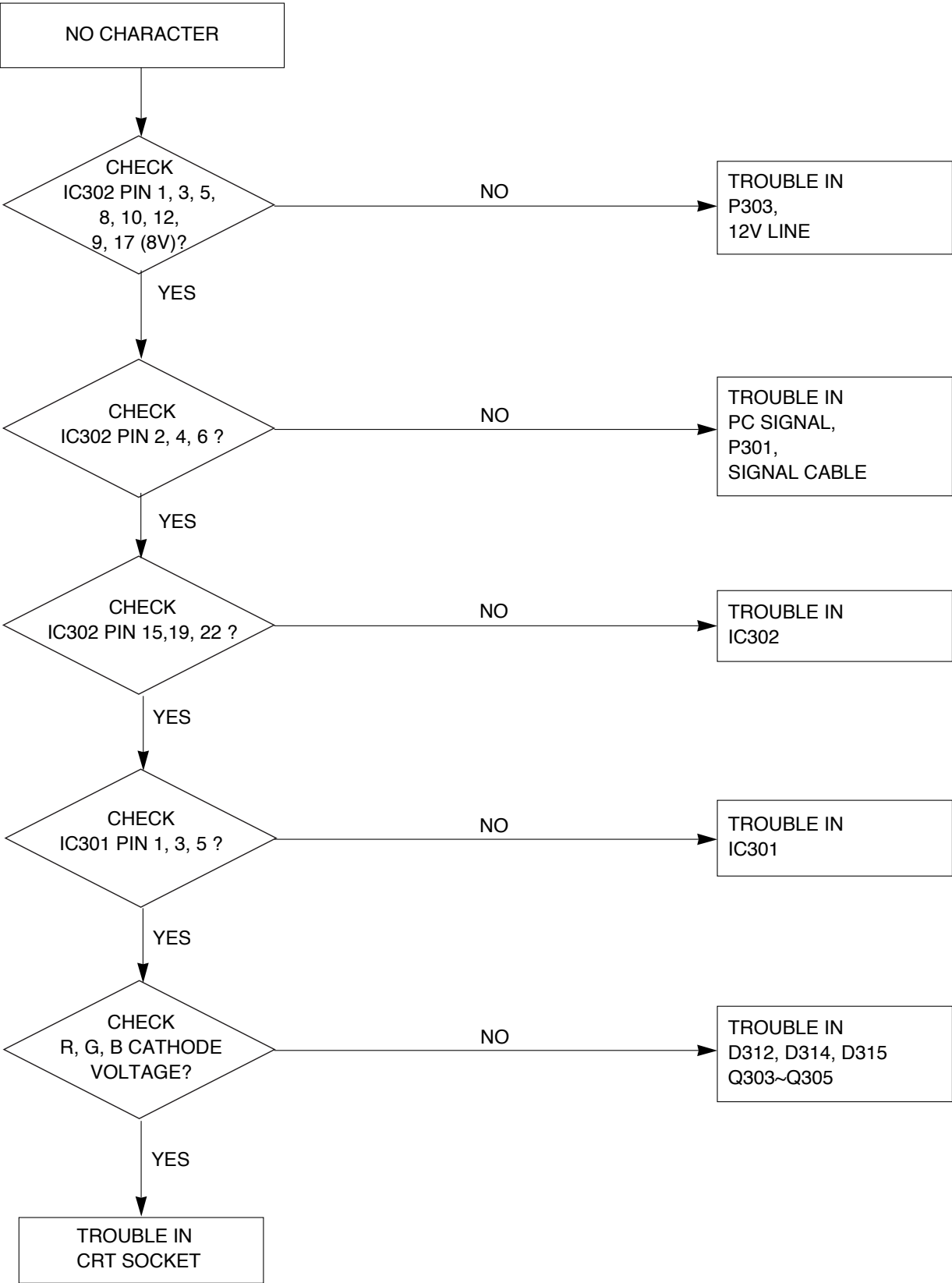
This circuit displays on the screen information of the monitor's status.

TROUBLE-SHOOTING GUIDE

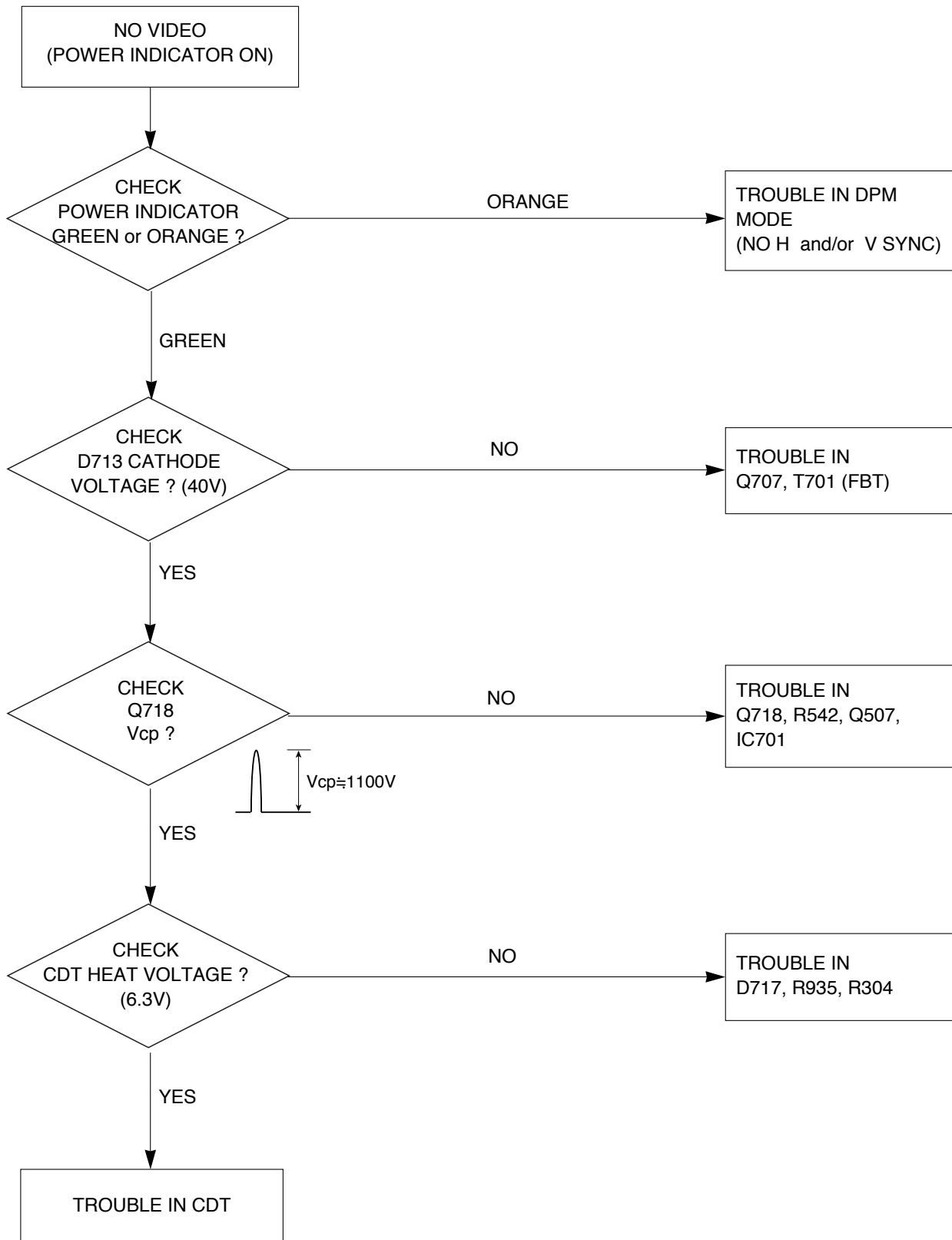
1. NO POWER



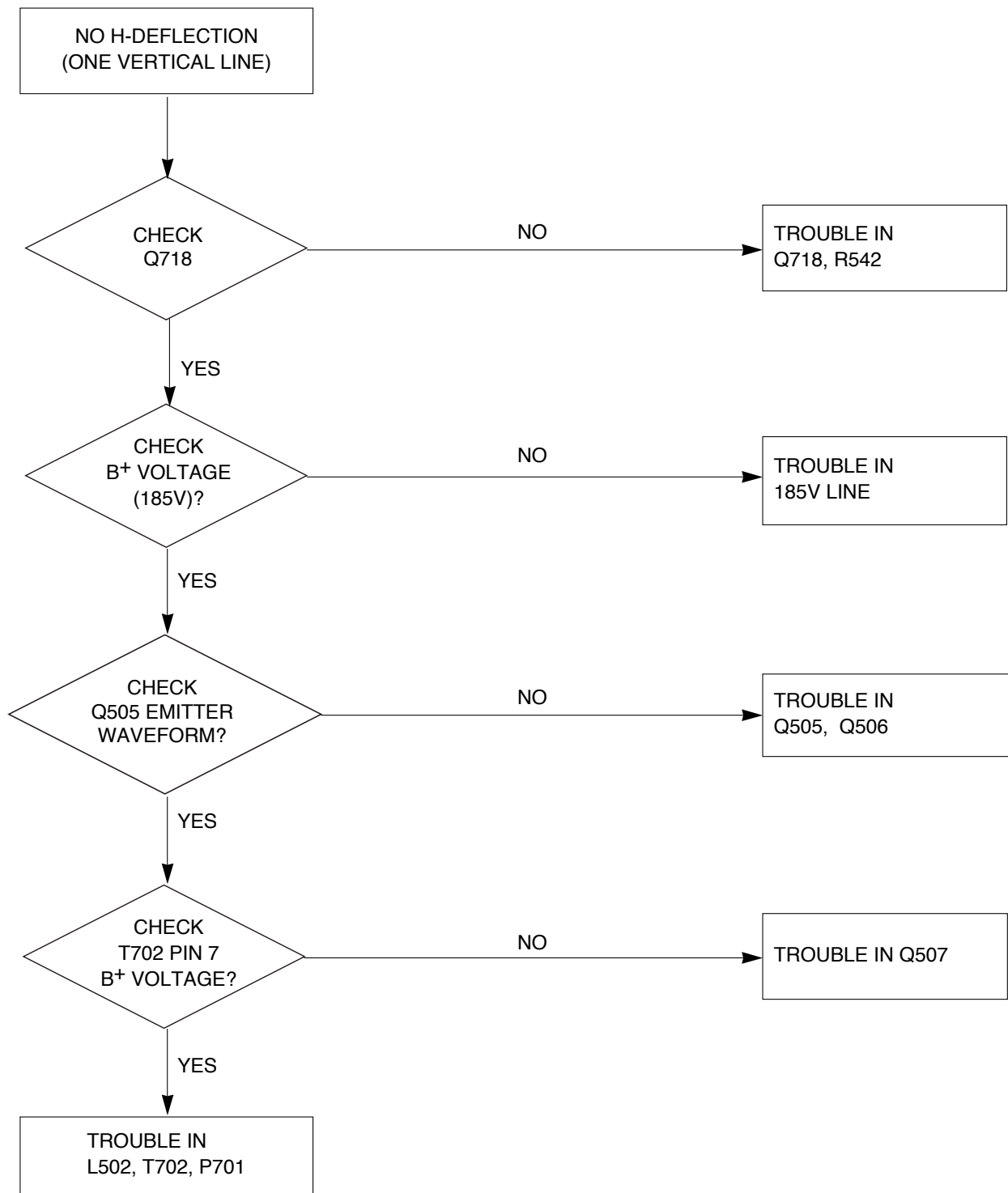
2. NO CHARACTER



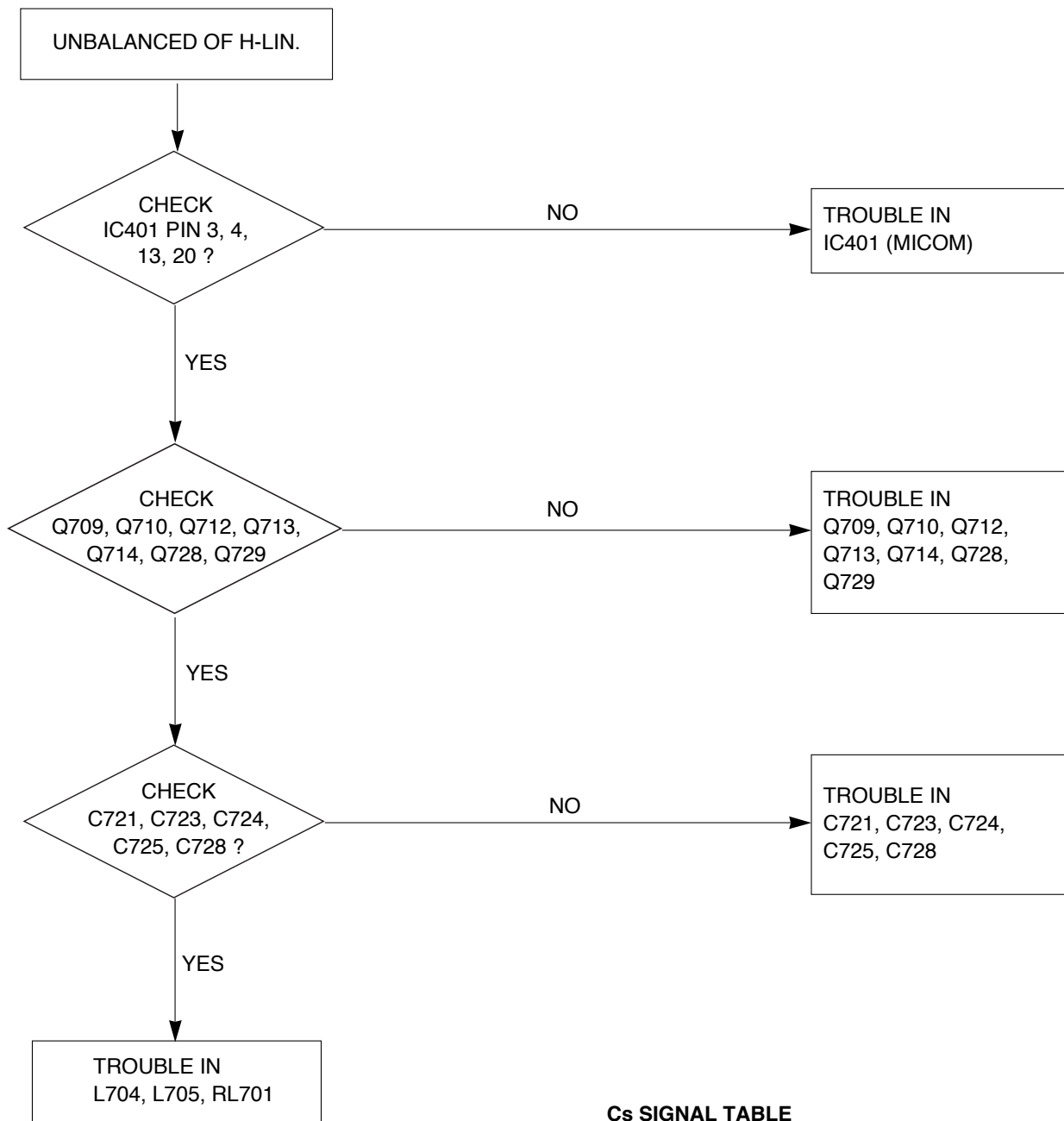
3. NO RASTER



4. NO HORIZONTAL DEFLECTION



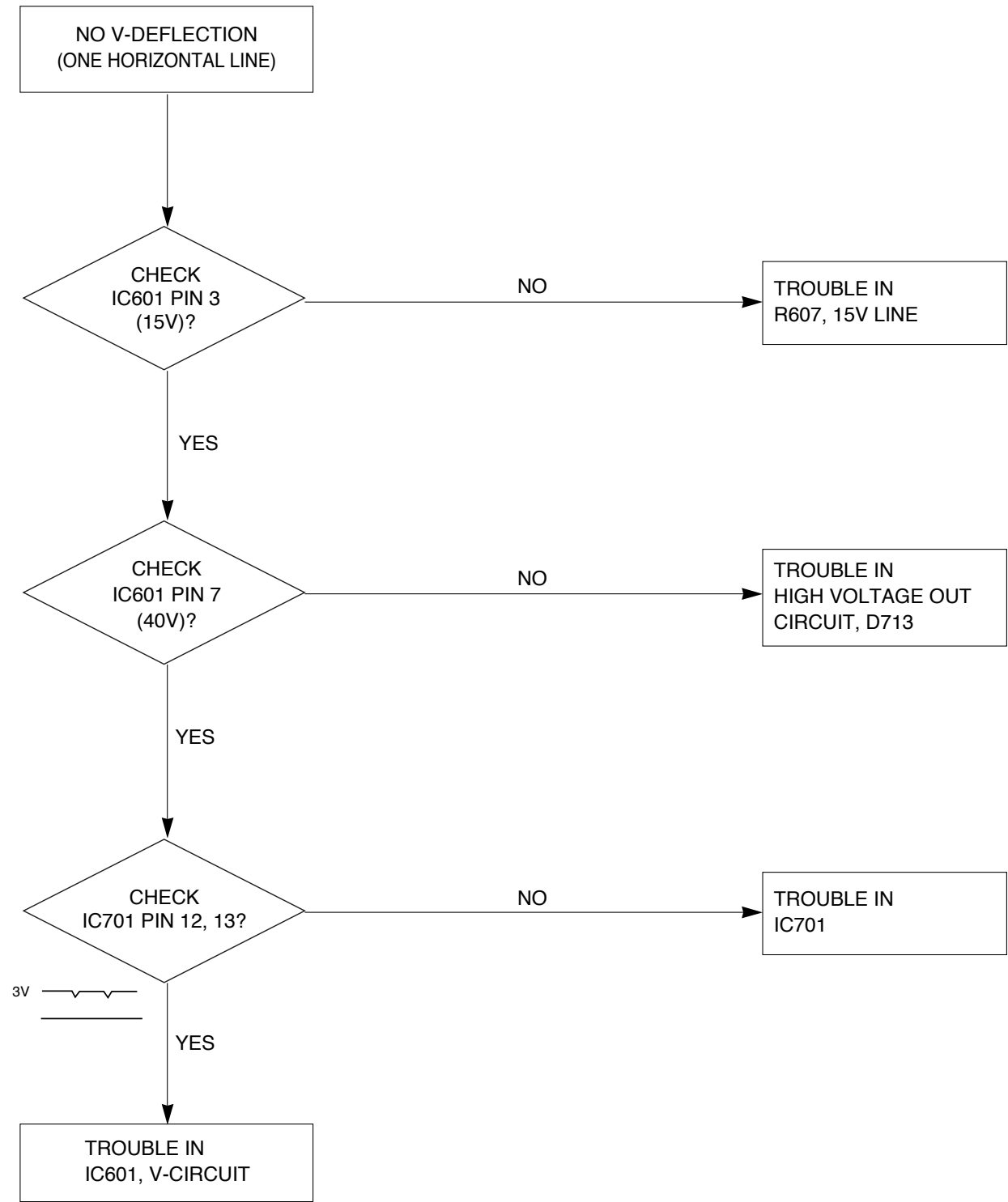
5. TROUBLE IN H-LINEARITY



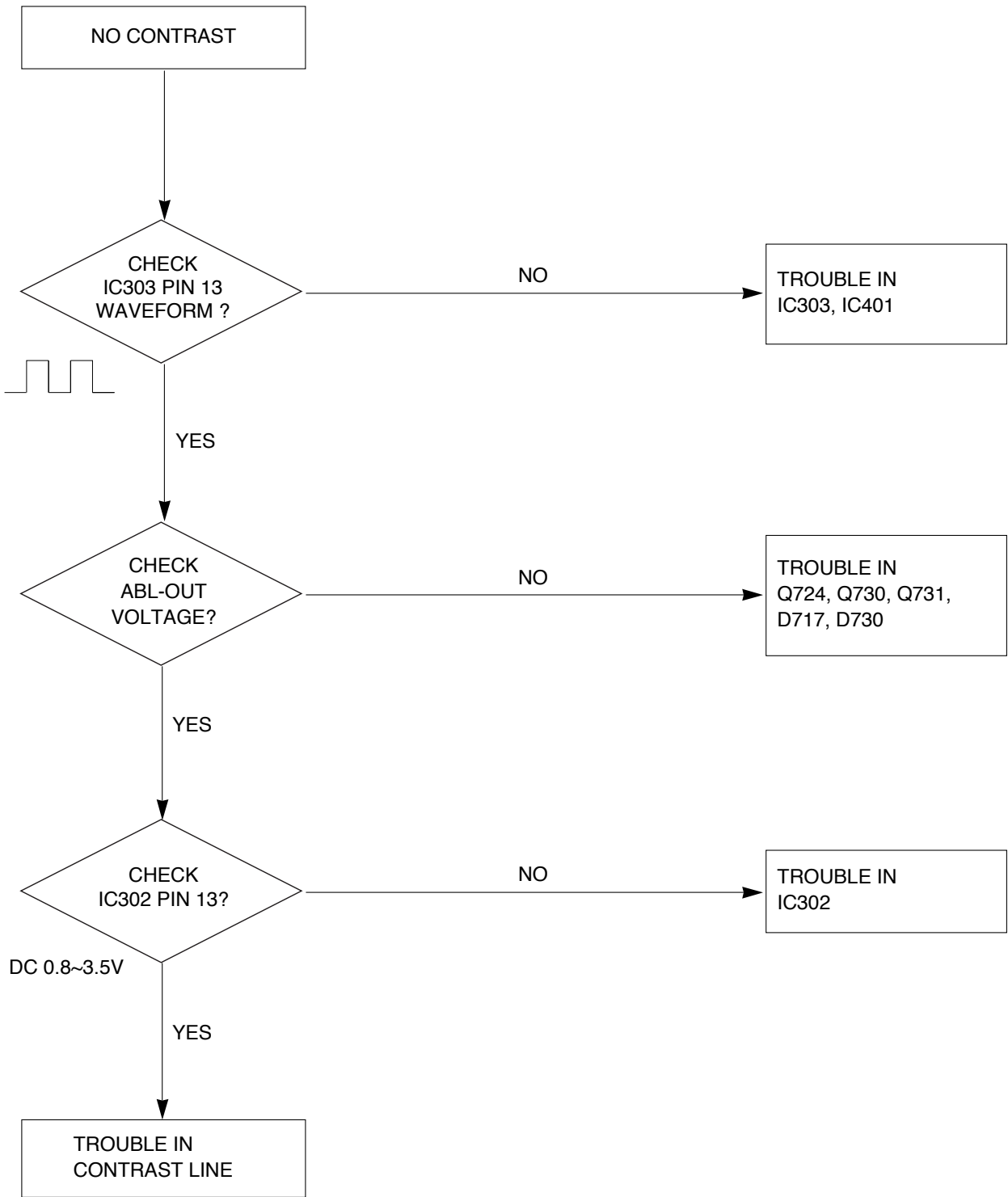
Cs SIGNAL TABLE

HORIZONTAL FREQUENCY(f _H)	Cs0	Cs1	Cs2	Cs3	L704	L705
30.0~34.0kHz	L	L	L	L	OFF	ON
34.1~41.0kHz	L	L	H	L	OFF	ON
41.1~52.0kHz	H	L	H	L	OFF	ON
52.1~62.0kHz	H	L	H	H	ON	ON
62.1~69.0kHz	H	H	H	H	ON	ON

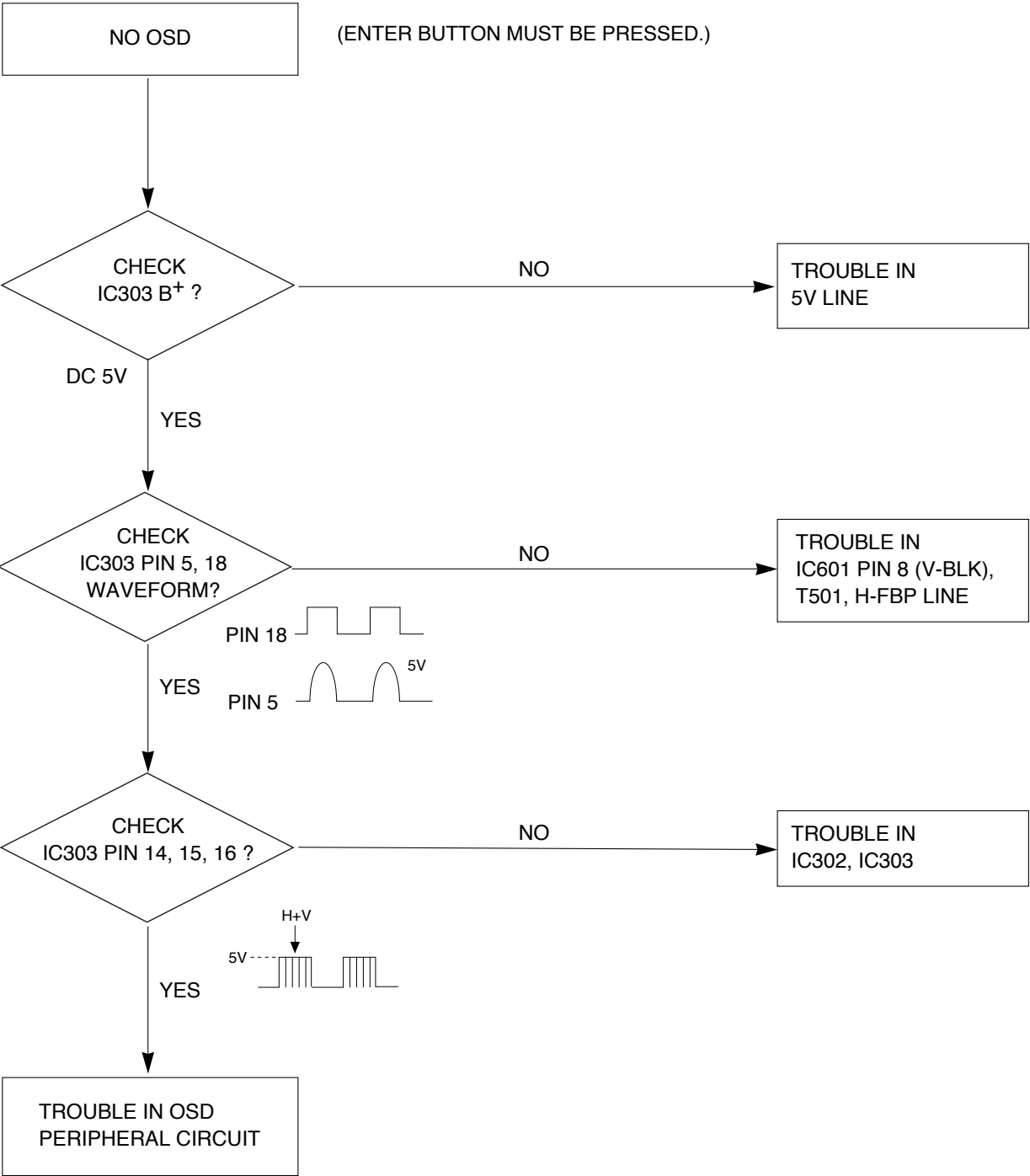
6. NO VERTICAL DEFLECTION



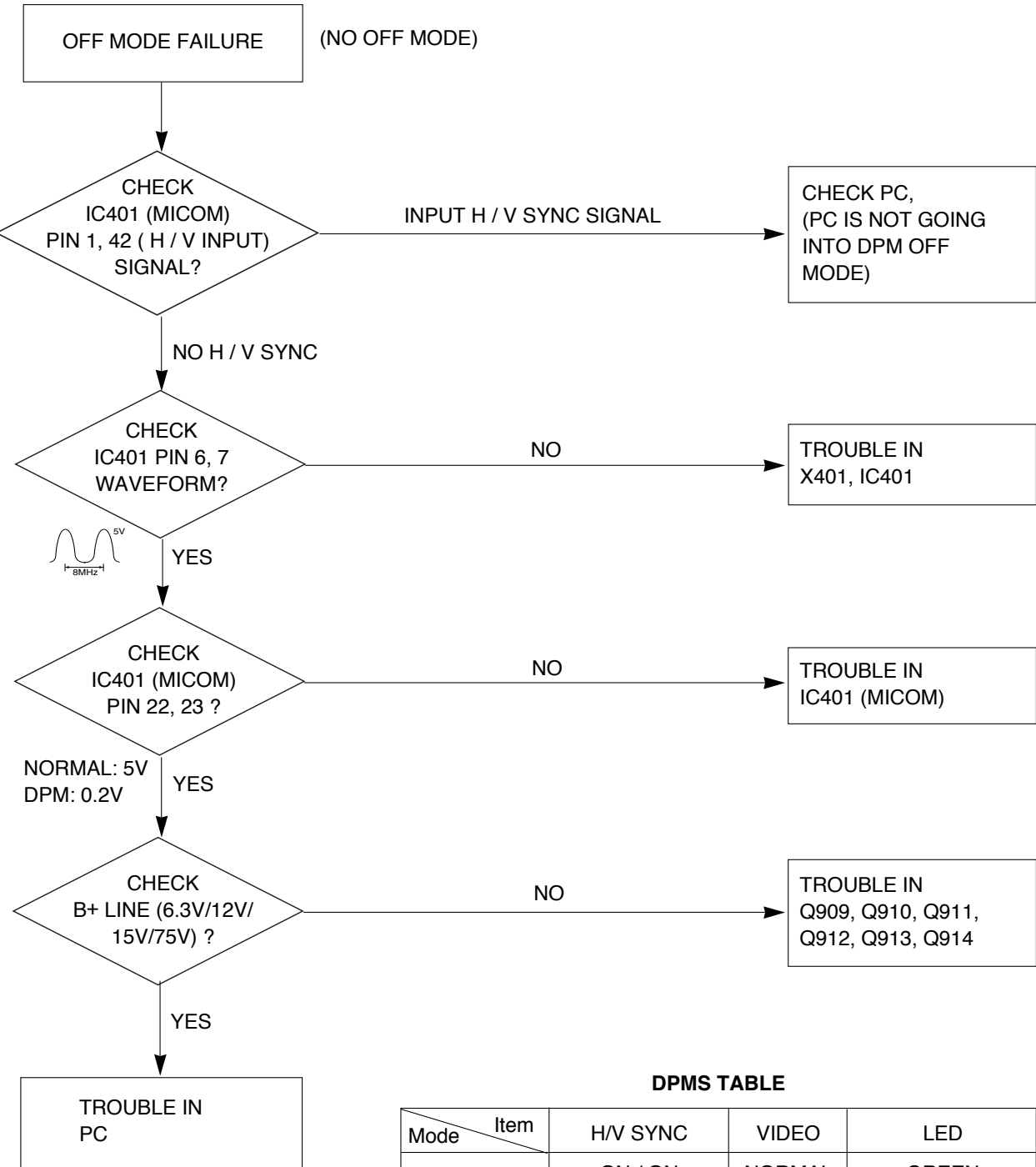
7. NO CONTRAST



8. TROUBLE IN OSD



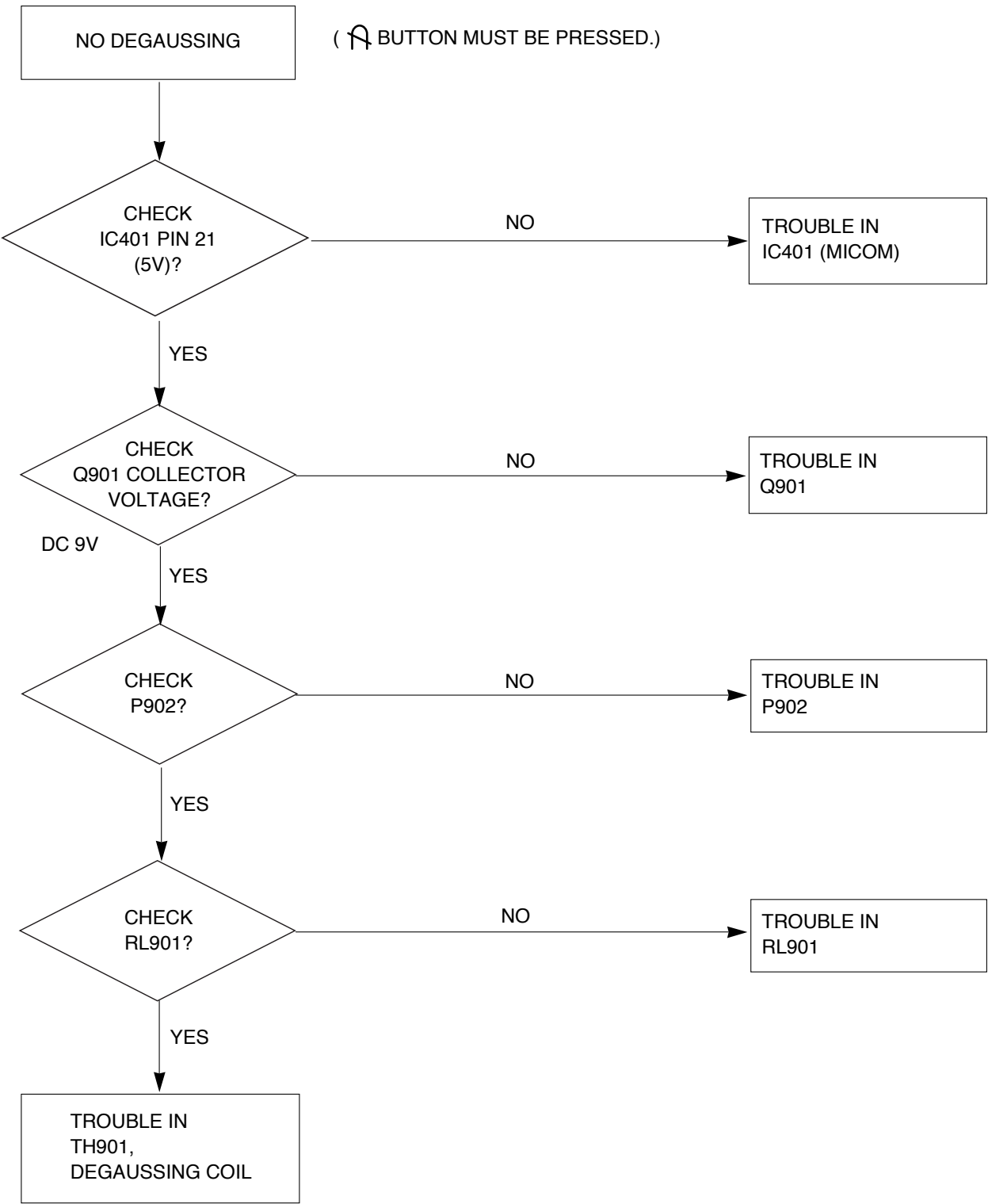
9. TROUBLE IN DPM



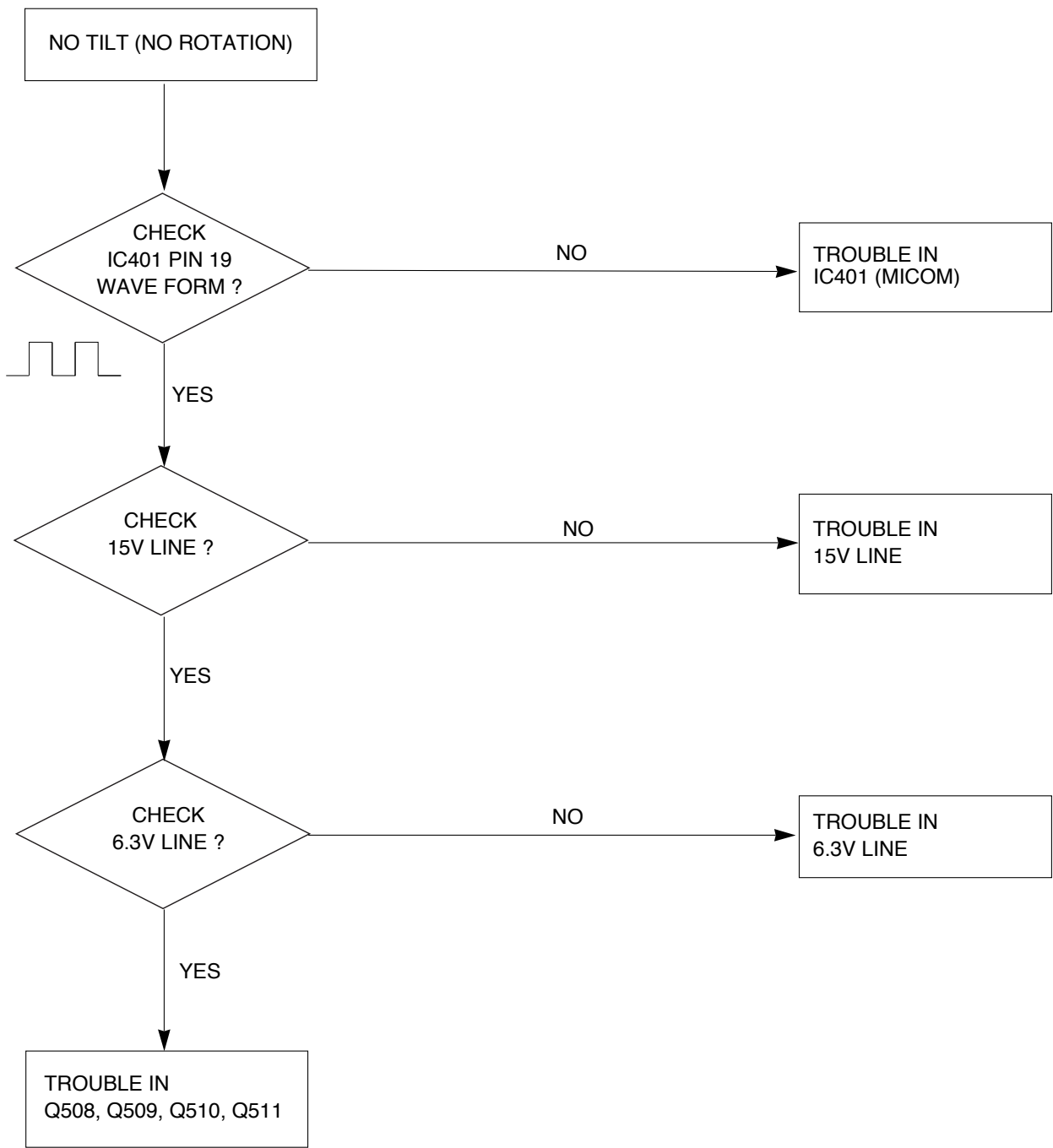
DPMS TABLE

Mode \ Item	H/V SYNC	VIDEO	LED
NORMAL	ON / ON	NORMAL	GREEN
STAND-BY	OFF / ON	OFF(OV)	ORANGE
SUSPEND	ON / OFF	OFF(OV)	
OFF	OFF / OFF	OFF(OV)	ORANGE

10. NO DEGAUSSING



11. NO TILT (NO ROTATION)



ADJUSTMENT

GENERAL INFORMATION

All adjustment are thoroughly checked and corrected when the monitor leaves the factory, but sometimes several minor adjustment may be required. Adjustment should be following procedure and after warming up for a minimum of 30 minutes.

- Alignment appliances and tools.
 - IBM compatible PC.
 - Programmable Signal Generator.
(eg. VG-819 made by Astrodesign Co.)
 - E(E)PROM with each mode data saved.
 - Alignment Adaptor and Software.
 - Digital Voltmeter.
 - White Balance Meter.
 - Luminance Meter.
 - High-voltage Meter.

AUTOMATIC AND MANUAL DEGAUSSING

The degaussing coil is mounted around the CRT so that automatic degaussing when turn on the monitor. But the monitor is moved or faced in a different direction, become poor color purity cause of CRT magnetized, then press  (DEGAUSSING) on the OSD menu.

ADJUSTMENT PROCEDURE & METHOD

Install the cable for adjustment such as Figure 1 and run the alignment program on the DOS for IBM compatible PC.

1. Adjustment for B⁺ Voltage

- ① Display cross hatch pattern at Mode 6.
- ② Adjust D909 cathode voltage to $185V \pm 0.2V$ with VR901.

2. Adjustment for High-Voltage

- ① Display cross hatch pattern at Mode 6.
- ② Adjust FBT Anode voltage to $25kV \pm 0.1kV$ with VR702.

3. Adjustment for Horizontal Raster Center

- ① Display cross hatch pattern at Mode 6.
- ② Adjust the raster should be center of the screen with SW701.

4. Adjustment for Screen Image

- ① Display cross hatch pattern at Mode 1.
- ② Run alignment program for StudioWorks 57i or CS590 on the IBM compatible PC.
- ③ COMMAND → START → Y(Yes) command.
- ④ DIST. ADJ → FOS. ADJ → Mode No. → 1 command.
- ⑤ Adjust H-SIZE as arrow keys to $260 \pm 1mm$.
- ⑥ Adjust H-POSITION as arrow keys to center of the screen.
- ⑦ Adjust V-SIZE as arrow keys to $190 \pm 1mm$.
- ⑧ Adjust V-POSITION as arrow keys to center of the screen.
- ⑨ Adjust S-PCC (Side-Pincushion) as arrow keys to be the best condition.
- ⑩ Adjust TRAPEZOID as arrow keys to be the best condition.
- ⑪ Adjust TILT as arrow keys to be the best condition.
- ⑫ Display from Mode 2 to Mode 6 and repeat above adjustment.
- ⑬ PRESET EXIT → Y(Yes) command.

5. Adjustment for White Balance and Luminance.

- ① Set the White Balance Meter.
- ② Press the  (DEGAUSSING) on the OSD menu for demagnetization of the CRT.
- ③ Display color 0,0 pattern at Mode 6.
- ④ COLOR ADJ. → LUMINANCE command of the alignment program.
- ⑤ Set Brightness to max position.
- ⑥ Set Contrast to max position.
- ⑦ COLOR ADJ. → COLOR NO. → 1 → SUB CONTRAST command of the alignment program.
- ⑧ Set Sub-Contrast to center position.
- ⑨ Set VR302 (G-Bias) to center, VR301 (R-Bias) and VR303 (B-Bias) to min position.
- ⑩ Adjust Screen control on the FBT to $0.3 \pm 0.05FL$ of the raster luminance.
- ⑪ Adjust VR301 (R-Bias) and VR303 (B-Bias) to white balance $x=0.281 \pm 0.015$ and $y=0.311 \pm 0.015$.
- ⑫ Display color 15,0 box pattern ($70 \times 70mm$) at Mode 6.
- ⑬ Set B-DRIVE to 140 (decimal) at DRIVE of the alignment program.
- ⑭ Adjust R-DRIVE 1 and G-DRIVE 1 to white balance $x=0.281 \pm 0.003$ and $y=0.311 \pm 0.003$ with arrow keys.

- ⑮ Adjust SUB-CONTRAST 1 to $55 \pm 1\text{FL}$ of the color 15,0 box pattern (70x70mm) luminance at mode 6.
- ⑯ Save in COLOR 1.
- ⑰ Adjust R-DRIVE 2 and G-DRIVE 2 to white balance $x=0.297 \pm 0.003$ and $y=0.320 \pm 0.003$ with arrow keys.
- ⑱ Adjust SUB-CONTRAST 2 to $55 \pm 1\text{FL}$ of the color 15,0 box pattern (70x70mm) luminance at mode 6.
- ⑲ Save in COLOR 2.
- ⑳ Display color 15,0 full white patten at Mode 6.

- ㉑ COLOR ADJ. → LUMINANCE → ABL command.
- ㉒ Adjust ABL to $32 \pm 1\text{FL}$ of the luminance.
- ㉓ Exit from the program.

6.Adjustment for Focus.

- ① Set the Brightness and Contrast to max position.
- ② Display H character in full screen at Mode 6.
- ③ Adjust Focus control on the FBT that focus should be the best condition.

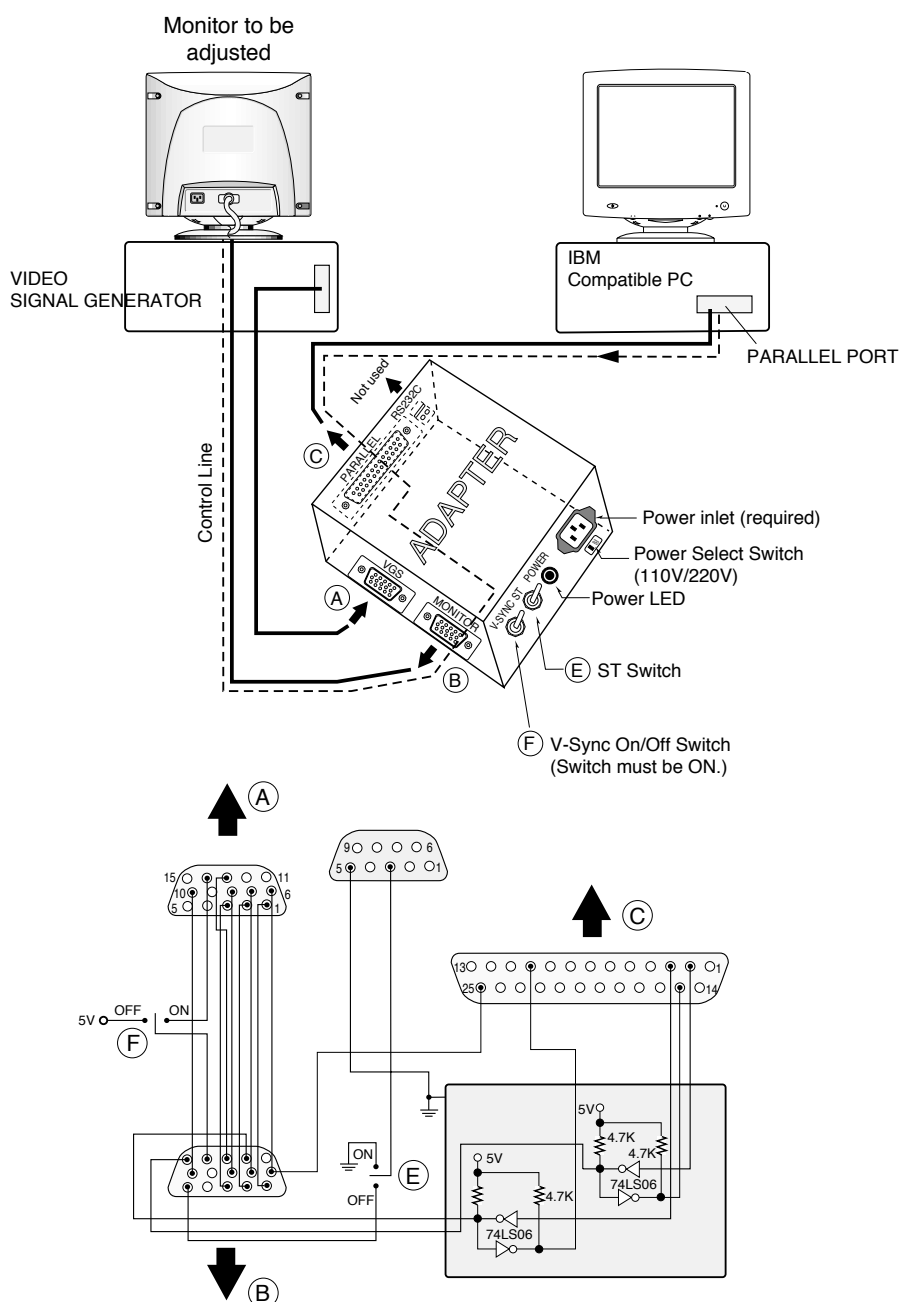
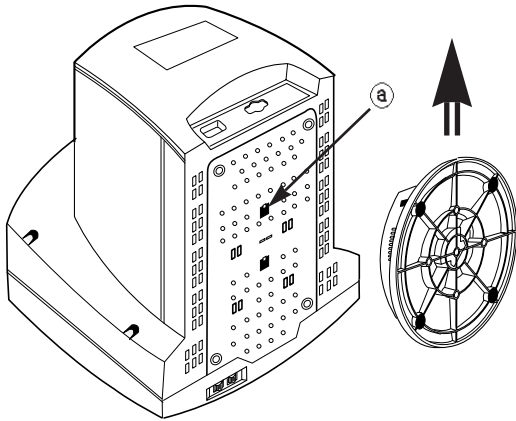


Figure 1, Cable Connection

DISASSEMBLY

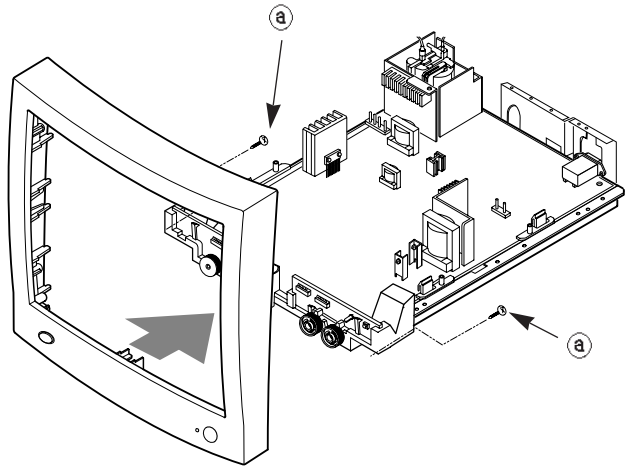
1. TILT/SWIVEL REMOVAL

- ① Set the monitor face down.
- ② Pressing the latch (a), carefully remove the Tilt/Swivel by pulling it upward.



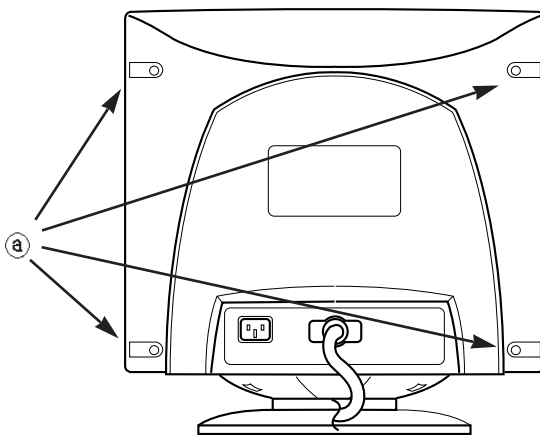
4. TOTAL CHASSIS ASSEMBLY REMOVAL

- ① Disconnect P902 (Degaussing pin), P701 (DY pin), and P501 (Tilt pin).
- ② Remove two screws (a) from the Bottom Bracket to remove the Ground Wire of the CRT.



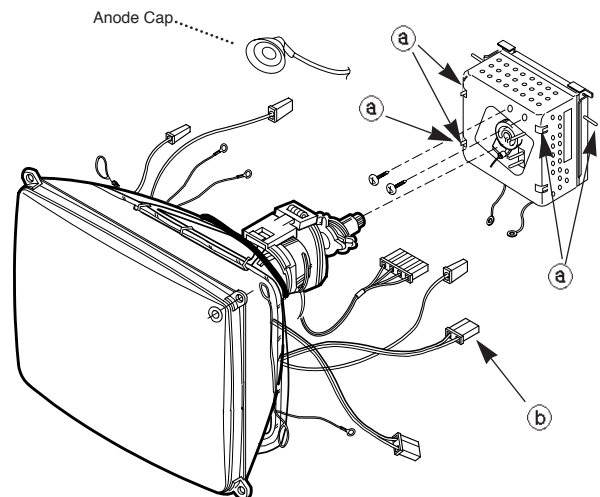
2. BACK COVER REMOVAL

- ① Remove four screws (a) from the Back Cover.
- ② Slide the Back Cover away from the Front Cabinet of the monitor.



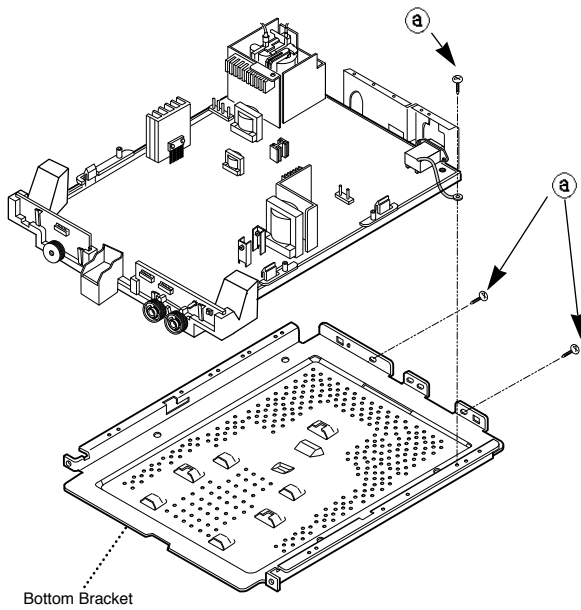
4. CRT BOARD ASSEMBLY REMOVAL

- ① Remove five connectors (a).
- ② Remove CRT ground connector (b).
- ③ Carefully separate the CRT Board Assembly from the CRT neck.
- ④ Discharge the remaining static electricity by shorting between the Anode Cap and the CRT ground.
- ⑤ Disconnect the Anode Cap from the CRT.



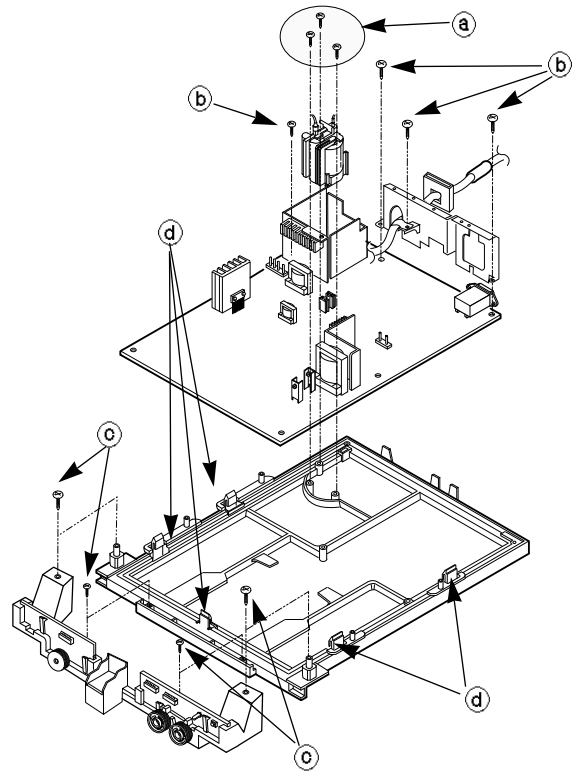
5. BOTTOM BRACKET REMOVAL

- ① Remove three screws (a).
- ② Remove the Bottom Bracket.

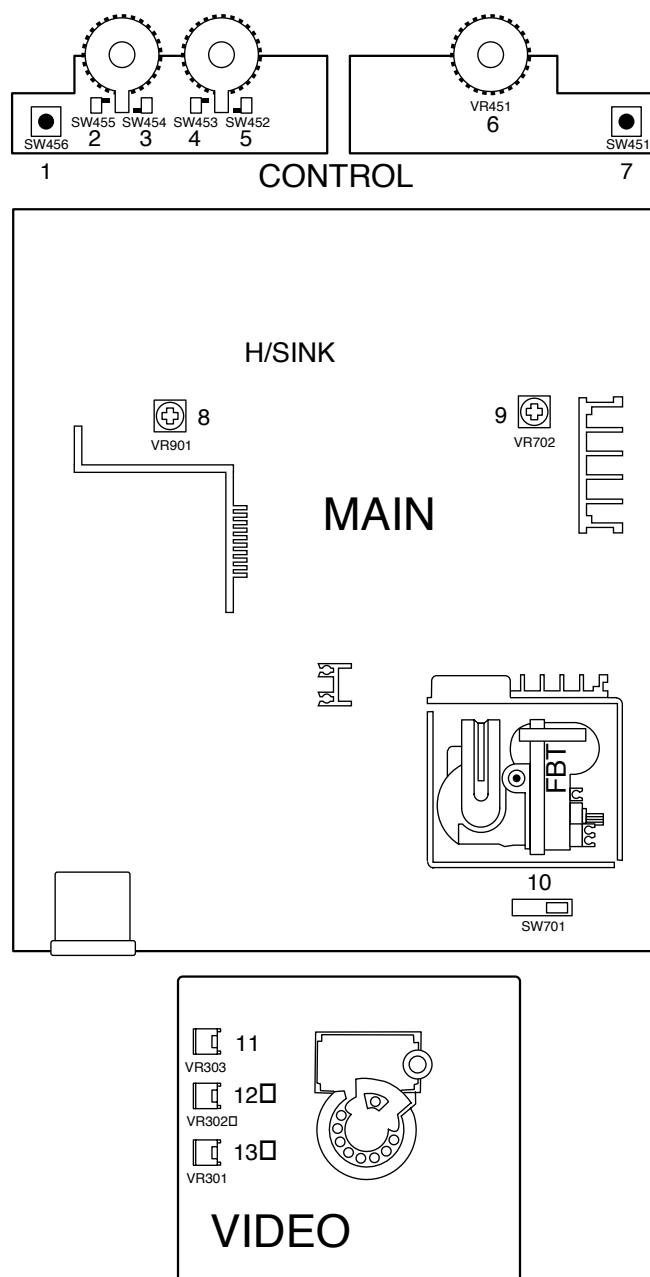


6. MAIN BOARD ASSEMBLY REMOVAL

- ① Remove three screws (a).
- ② Remove four screws (b).
- ③ Remove four screws (c).
- ④ Release five latches (d) from the Main Board Assembly.

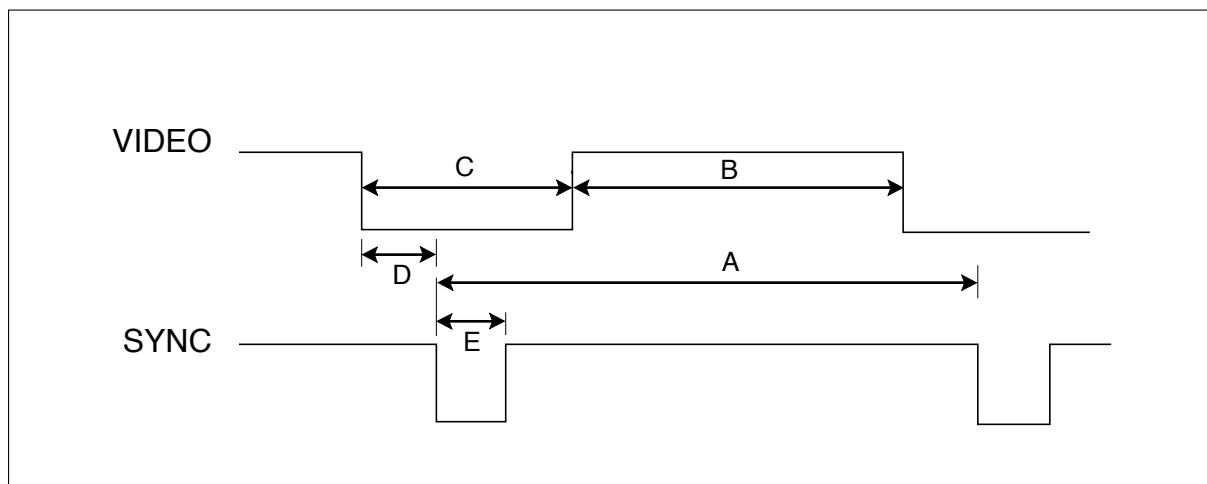


CONTROL LOCATIONS



No.	Ref. No.	Control Function	No.	Ref. No.	Control Function
1	SW456	POWER SWITCH	8	VR901	B ⁺ ADJUSTMENT
2	SW455	CONTRAST (+)	9	VR702	HIGH-VOLTAGE ADJUSTMENT
3	SW454	CONTRAST (-)	10	SW701	H-RASTER CENTER SW.
4	SW453	BRIGHTNESS (+)	11	VR303	B CUT-OFF (B-BIAS)
5	SW452	BRIGHTNESS (-)	12	VR302	G CUT-OFF (G-BIAS)
6	VR451	OSD SELECT/ADJUSTMENT	13	VR301	R CUT-OFF (R-BIAS)
7	SW451	ENTER BUTTON			

TIMING CHART



MODE			FACTORY PRESET MODE						
			MARK	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
H O R I Z O N T A L	Sync Polarity			—	—	+	+	+	+
	Frequency	kHz		31.47	37.50	46.88	53.67	63.98	68.68
	Total Period	μs	A	31.78	26.67	21.33	18.63	15.63	14.56
	Video Active Time	μs	B	25.42	20.32	16.16	14.22	11.85	10.84
	Blanking Time	μs	C	6.36	6.35	5.17	4.41	3.78	3.73
	Front Porch	μs	D	0.64	0.51	0.32	0.57	0.44	0.51
	Sync Duration	μs	E	3.81	2.03	1.62	1.14	1.04	1.02
V E R T I C A L	Sync Polarity			+	—	+	+	+	+
	Frequency	Hz		70.08	75	75	85.06	60.02	84.98
	Total Period	ms	A	14.27	13.33	13.33	11.76	16.66	11.77
	Video Active Time	ms	B	12.71	12.80	12.80	11.179	16.005	11.183
	Blanking Time	ms	C	1.557	0.533	0.533	0.578	0.656	0.582
	Front Porch	ms	D	0.413	0.027	0.021	0.019	0.016	0.015
	Sync Duration	ms	E	0.064	0.080	0.064	0.056	0.047	0.044
Resolution				720 x 400 70Hz	640 x 480 75Hz	800 x 600 75Hz	800 x 600 85Hz	1280 x 1024 60Hz	1024 x 768 85Hz
				VGA2	VGA VESA75	SVGA VESA75	SVGA VESA85	VESA	VESA85