DENON

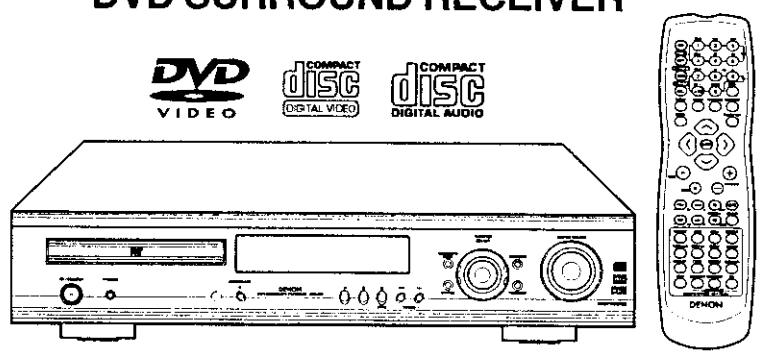
For U.S.A. , Canada & Europe model

Hi-Fi Component

SERVICE MANUAL

MODEL ADV-700

DVD SURROUND RECEIVER



— TABLE OF CONTENTS —

● Some illustrations using in this service manual are slightly different from the actual set.

NIPPON COLUMBIA CO., LTD.

14-14, AKASAKA 4-CHOME, MINATO-KU, TOKYO 107-8011 JAPAN
Telephone: 03 (3584) 8111

X0115 842 NC 0108

SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

SPECIFICATIONS

■ Audio section

• Power amplifier

Output power:	Front:	35 W + 35 W	(6 Ω/ohms, 1 kHz with 10% T.H.D.)
	Center:	35 W + 35 W	(6 Ω/ohms, 1 kHz with 10% T.H.D.)
	Surround:	35 W + 35 W	(6 Ω/ohms, 1 kHz with 10% T.H.D.)
Output terminals:	Front, Center, Surrond:		6 ~16 Ω/ohms

• Analog

Input sensitivity / input impedance:	200 mV / 47 kΩ/kohms
Frequency response:	10 Hz ~ 70 kHz: +0.3 dB (DIRECT mode)
S / N :	98 dB (DIRECT mode)
Rated output:	1.2 V (Subwoofer preout, 20 Hz)

• Digital

Digital input / output:	Format — Digital audio interface

■ Video section

• Standard video jacks

Input / output level and inpedance:	1 Vp-p, 75 Ω/ohms

• S-video jacks

Input / output level and inpedance:	Y (brightness) signal — 1 Vp-p, 75 Ω/ohms C (color) signal — 0.286 Vp-p, 75 Ω/ohms (U.S.A. & Canada model) C (color) signal — 0.3 Vp-p, 75 Ω/ohms (Europe model)

• Color component video jacks (DVD output) (U.S.A. & Canada model)

Input / output level and inpedance:	Y (brightness) signal — 1 Vp-p, 75 Ω/ohms CB (blue) signal — 0.648 Vp-p, 75 Ω/ohms CR (red) signal — 0.648 Vp-p, 75 Ω/ohms

• AV1 connector (Europe model)

Video output:	1Vp-p, 75Ω/ohms
S-video output:	Y (brightness) signal — 1 Vp-p, 75 Ω/ohms C (color) signal — 0.3 Vp-p, 75 Ω/ohms
RGB output (DVD only):	R/G/B signal — 0.7 Vp-p, 75 Ω/ohms
Audio output:	L/R (Fixed output)

■ Tuner section

	[FM] (note: µV at 75 Ω/ohms, 0 dBf=1x10^{-15}W)	[AM]
Receiving Range		
U.S.A. & Canada model:	87.50 MHz–107.90 MHz	520 MHz–1710 MHz
Europe model:	87.50 MHz–108.00 MHz	522 MHz–1611 MHz
Usable Sensitivity:	1.5 µV (14.8 dBf)	

■ DVD section

Signal Format:	NTSC/PAL
Applicable discs:	(1) DVD-Video discs 1-layer 12 cm single-sided discs, 2-layer 12 cm single-sided discs, 2-layer 12cm double-sided discs (1 layer per side) 1-layer 8 cm single-sided discs, 2-layer 8 cm single-sided discs, 2-layer 8 cm double-sided discs (1 layer per side) (2) Compact discs (CD-DA, Video CD) 12 cm discs, 8 cm discs
Audio output:	Fixed output level: 2 Vrms, (CDR/TYPE, VCR OUT)

■ Clock, Timer section

Clock system:	Power source synchronous system
Timer functions:	Everyday timer (DVD or Tuner): 1 setting Sleep timer: maximum 120 min.

■ General

Power Supply:	AC 120 V, 60 Hz (For U.S.A. & Canada model) AC 230 V, 50 Hz (For Europe model)
Power Consumption:	135 W (Standby 1.2 W) (For U.S.A. & Canada model) 145 W (Standby 1.2 W) (For Europe model)
Maximuim external Dimensions:	434(W) × 90 (H) × 415 (D) mm (17.1" × 3.5" × 16.3")
Mass:	9.4 kg (20.7 lbs)

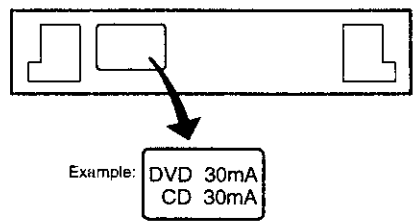
■ Remote Control Unit — RC-902 (For U.S.A. & Canada model)
RC-901 (For Europe model)

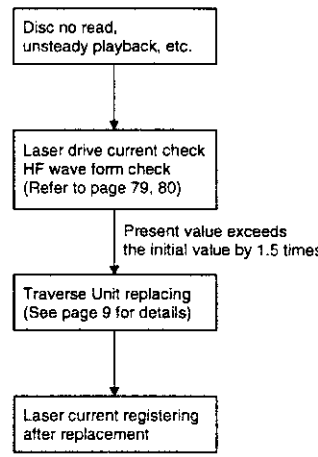
Type:	Infrared pulse
Power Supply:	DC 3V, 2 "AA/R6P" batteries

* Design and specifications are subject to change without notice in the course of porduct improvement.

DIAGNOSTICS OF OPTICAL PICKUP AND REPLACING TRAVERSE UNIT

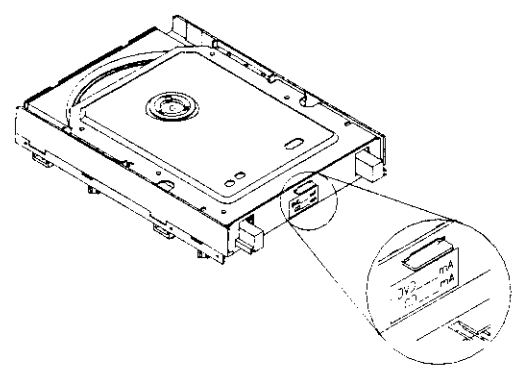
Make failure diagnostics of the Optical Pickup as follows.
If the laser drive current becomes more than 1.5 times of the initial value, the Optical Pickup should be replaced.
The laser drive current is registered on the seal attached to the rear of the Mecha. Unit.
In case of replacing the Pickup, change the whole part of the Traverse Unit.
No mechan cal adjustment is necessary after the replacement.





Step: Disc playback
Write the measured value
on the seal attached to the Mecha. Unit
* As to the measuring method, refer to page 4

Label Indication of DVD Mechanism



Laser current consumption value
ex) DVD ***mA, CD ***mA

Note for Handling the Laser Pick-up

The protection for the damage of laser diode.

If you want to change the optical device unit from any other units, you must keep the following.

(1) It should be done at the desk already took measures the static electricity in care of removing the OPU's (Optical device unit) connector cable.
(2) Workers should be put on the "Earth Band".
(3) It shold be done to add the solder to the short land to prevent the broken Laser diode before removing the 24P FFC cable.
(4) Don't touch OPU's connector parts carelessly.

Replacement of the Laser Pick-up (Traverse Unit)

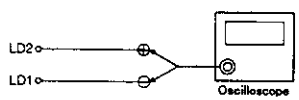
Check the Iop (Laser drive current).
If the present Iop (current) value exceeds +50% of the initial value, replace the Traverse unit (Laser Pick-up) with a new one.

Iop Measurement Method

When measureing Laser drive current (Iop), playback the discs (CD, DVD) described below, measure Iop for CD Laser and DVD Laser by the test point (LD1 – LD4) on the DVD Main P.W.B.

Test Disc : DVD/DVDT-S01 or commercially available discs.
: CD/TCD-784 (manufactured by ALMEDIO INC) or commercially available discs.

1. DVD Laser current measurement

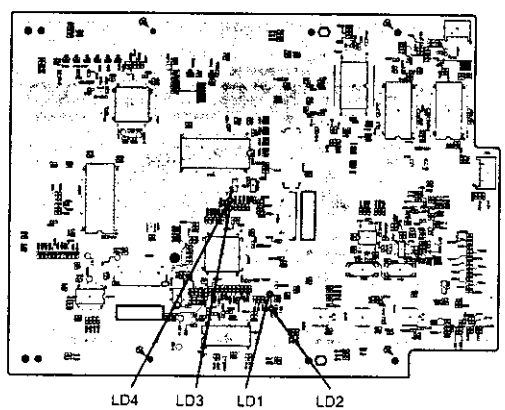


(1) Connect the oscilloscope to LD1 of test point for GND side and LD2 of test point for signal side.
(2) Playback the title 1 / chapter 1 of the DVD Test Disc.
(3) Measure the voltage between LD1 and LD2, calculate Iop by the formula as shown below.

$$Iop = \frac{\text{Measurement Voltage Value}}{\text{39 (Resistance Value)}}$$

2. CD Laser current measurement
(1) Connect the oscilloscope to LD3 of test point for GND side and LD4 of test point for signal side.
(2) Playback the track 1 of the CD Test Disc.
(3) Measure the voltage between LD3 and LD4, calculate Iop by the formula as shown below.

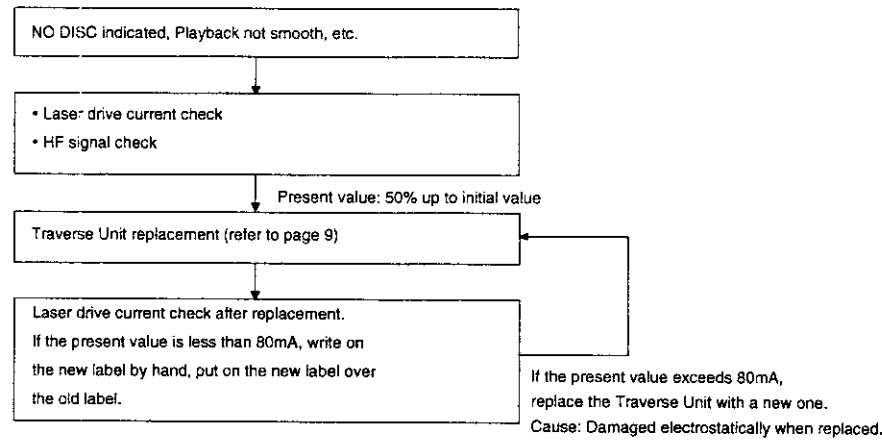
$$Iop = \frac{\text{Measurement Voltage Value}}{\text{39 (Resistance Value)}}$$



DVD Main Unit foil side

Optical Pick-up Diagnostics and Replacement

When repairing, carry out failure diagnostics by following the procedure described below.
If the present value of the laser drive current is 50% up to initial value, it is the point of the pickup replacement.
In case of the pickup replacement, replace the Traverse Unit with no adjustment.
The initial value is indicated on the label on back side of Mecha.

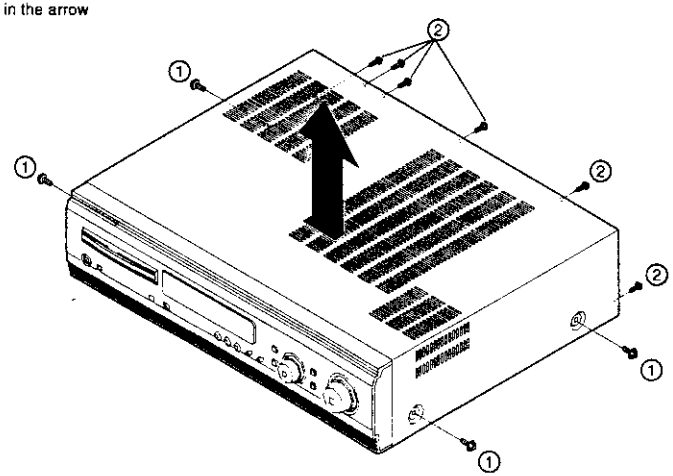


DISASSEMBLY

(Follow the procedure below in reverse order when reassembling)

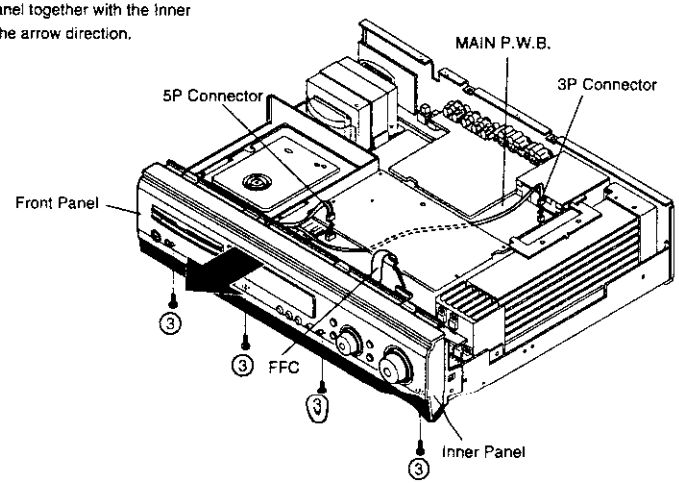
1. Top Cover

1) Remove 4 screws ① on both sides.
2) Remove 6 screws ② on the rear panel.
3) Detach the Cover as shown in the arrow direction.



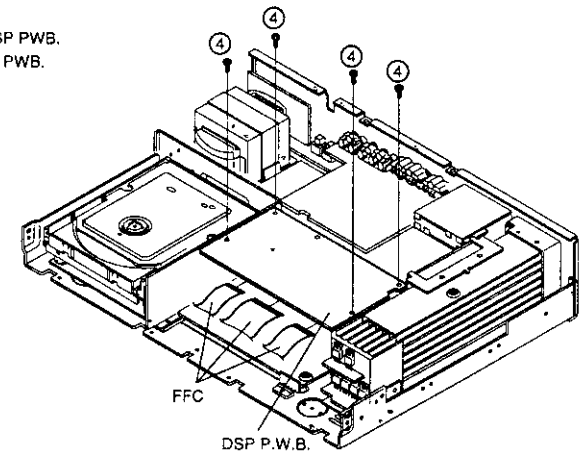
2. Front Panel

1) Remove 4 screws ③ from the bottom edge of the Front Panel.
2) Disconnect FFC, 3P Connector, and 5P Connector from the Main PWB.
3) Detach the Front Panel together with the Inner Panel as shown in the arrow direction.



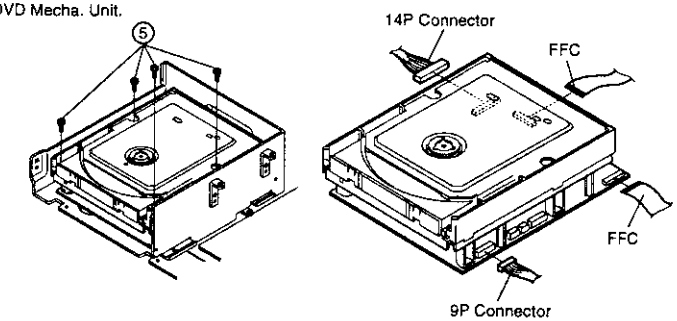
3. DSP PWB

1) Remove 4 screws ④ fixing the DSP PWB.
2) Disconnect FFC x 3 from the DSP PWB.



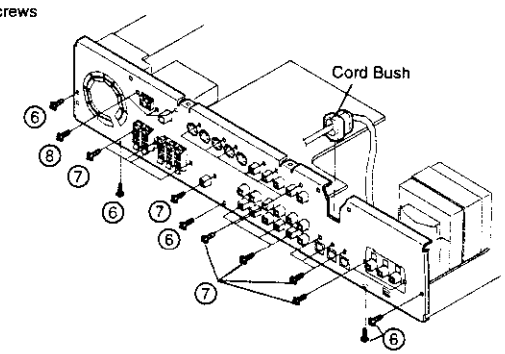
4. DVD Mecha. Unit

1) Remove 4 screws ⑤ on the DVD Mecha. Unit.
2) Disconnect FFC x 2, 14P Connector, and 9P Connector from the DVD Mecha. Unit.



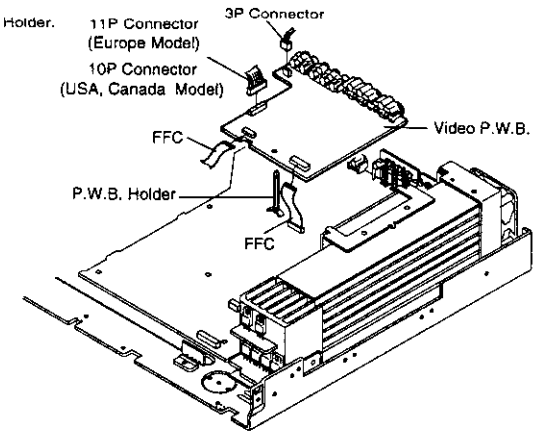
5. Rear Panel

1) Remove the Cord Bush.
2) Remove 5 screws ⑥, 20 screws ⑦, and 3 screws ⑧ on the Rear Panel.



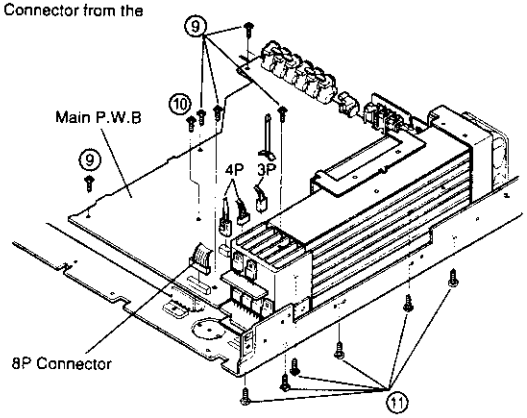
6. Video PWB

1) Disconnect FFC x 2, 11P Connector, and 3P Connector from the Video PWB.
2) Detach the Video PWB from the PWB Holder.



7. Main PWB

1) Remove 5 screws ⑨ and 1 screw ⑩ on the Main PWB.
2) Remove 6 screws ⑪ from the bottom of the Chassis.
3) Disconnect 8P, 4P x 2, and 3P Connector from the Main PWB.



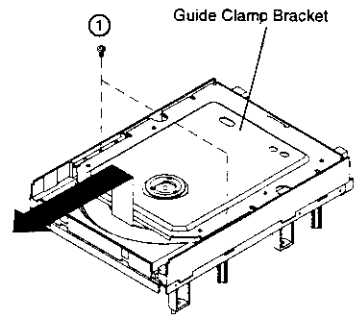
TRAVERSE UNIT DISASSEMBLY

(Follow the procedure below in reverse order when reassembling)

Caution: The optical pickup can be damaged easily by static electricity charged on human body. Take necessary anti-static measures when repairing around the optical pickup.

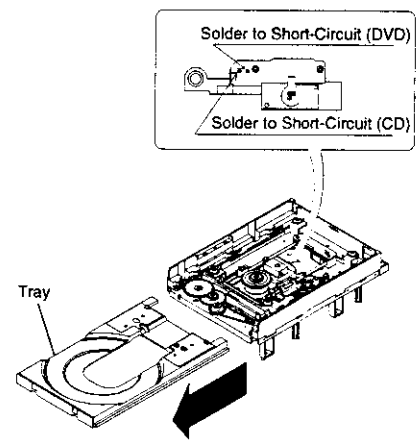
1. Guide Clamp Bracket disassembly

(1) Remove 2 screws ①.
(2) Remove Guide Clamp Bracket to arrow direction.



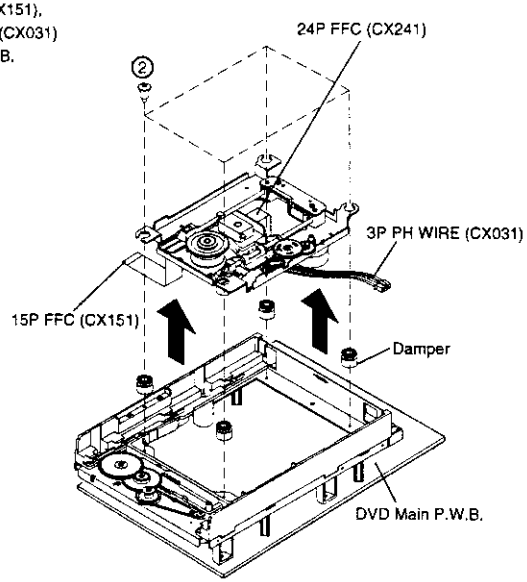
2. Tray disassembly

(1) Remove to arrow direction.
(2) Solder the short-circuit (see in the frame).



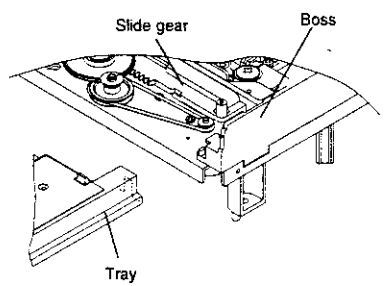
3. Traverse Unit disassembly

(1) Remove 24P FFC (CX241), 15P FFC (CX151), 5P PH WIRE (CX051) and 3P PH WIRE (CX031) connecting with from the DVD Main P.W.B.
(2) Remove 4 screws of ② fixing Damper.
(3) Remove Traverse Unit to arrow direction.



Note for disassembly Traverse Unit

(1) When assembling, reverse the order of the above.
(2) When inserting Tray, confirm boss on Slide Cam set to ditch of the Tray (Compare with right drawing).



CAUTION IN SERVICING

● Initialization

Initialization should be performed when the µcom, peripheral parts of µcom, and DVD Main P.W.B. are replaced.

How to initialize

- At the player is in the state of AC OFF, turn the AC ON with pressing the PLAY (▶) and STOP (■) buttons simultaneously. Check that the Standby LED lights orange and the initialization has been activated. (until "INITIALIZE" disappears from *the FL display*).

Note: All user settings will be lost and its factory setting will be recovered when this initialization is made. So make sure to memorize your setting for restoring after the initialization.

ELECTRICAL ADJUSTMENT

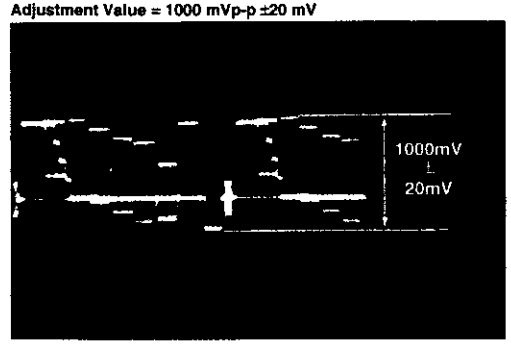
The following adjustment is electrical adjustments. These adjustments are to be performed after replacing the printed circuit boards.

1. Video Output (Interlace) Adjustment

Measurement Point	Adjustment Point	Mode	Disc
Video Output Pin Terminal	VR701	Color Bar 75% T12 Playback	DVD T -S01
Measuring Device: Oscilloscope 200 mV/div, 10 µs/div			
Adjustment Value: 1000 mVp-p ±20 mV			

For compatibility of video signal output.
1. Connect the monitor TV to the video output terminal and terminate at 75 Ohms.
2. Play back the color bar part Title 12 of the DVD Test Disc.
3. Adjust the VR701 so that the luminance signal (Y+S) output is as shown below.

Adjustment Value = 1000 mVp-p ±20 mV



Luminance Signal Output

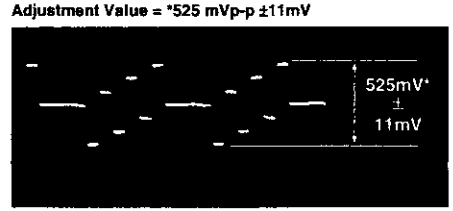
2. Video Output (Interlace) Adjustment

Measurement Point	Adjustment Point	Mode	Disc
CB Output Pin terminal	VR702	Color Bar 75% T12 Playback	DVDT-SO1
Measuring Device: Oscilloscope 100 mV/div, 10 µs/div			
Adjustment Value: *525 mVp-p ±11 mV Europe/Asia models			

Note: CB Output should be 75 Ω terminal

For compatibility of video signal output.
1. Connect the oscilloscope to CB output Pin terminal for CH-1 and CR output Pin terminal for CH-2. (Trigger)
2. Playback the color bar part title 12 of the DVD Test Disc.
3. Adjust the VR702 so that the CB signal output is as shown below.

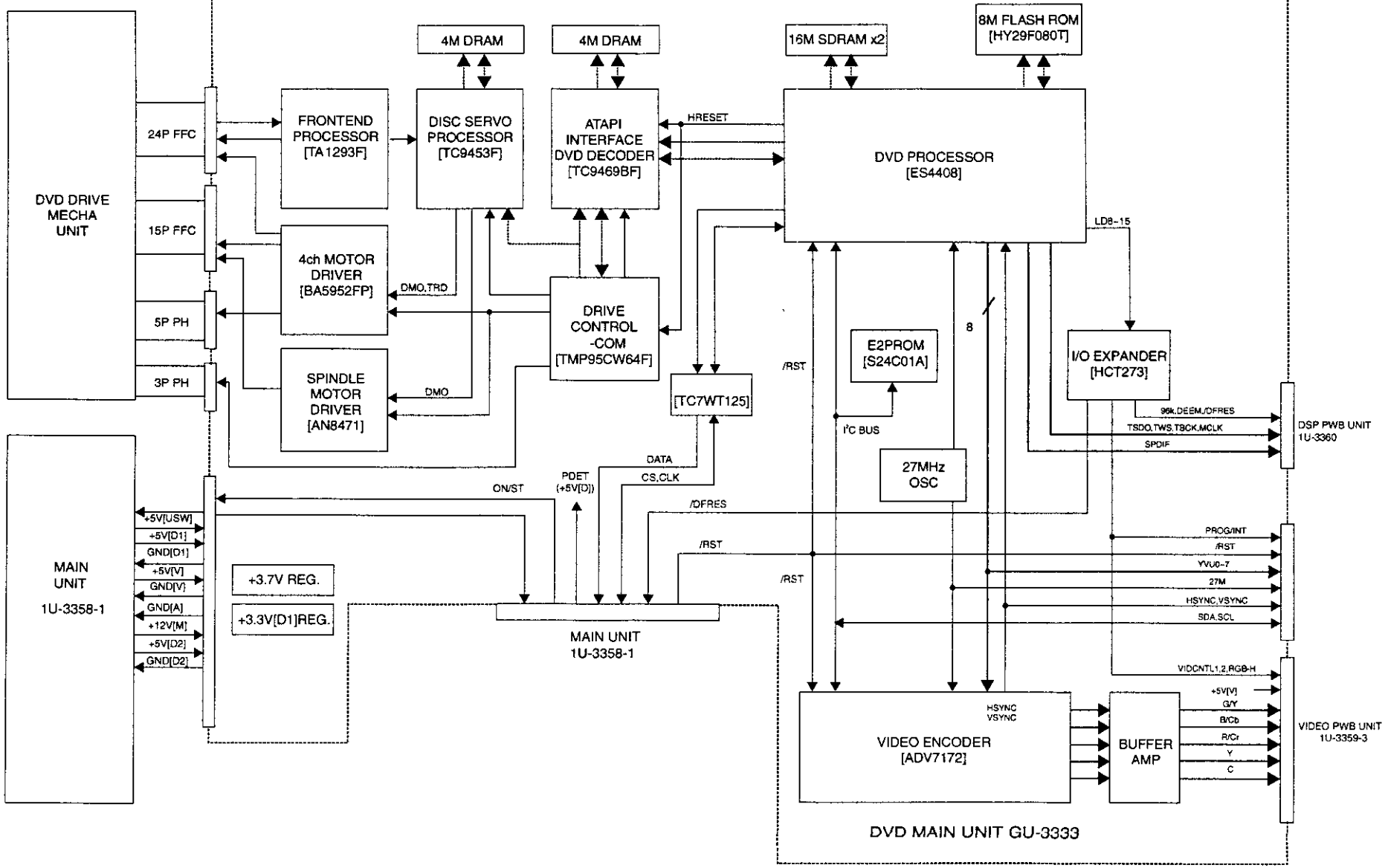
Adjustment Value = *525 mVp-p ±11mV



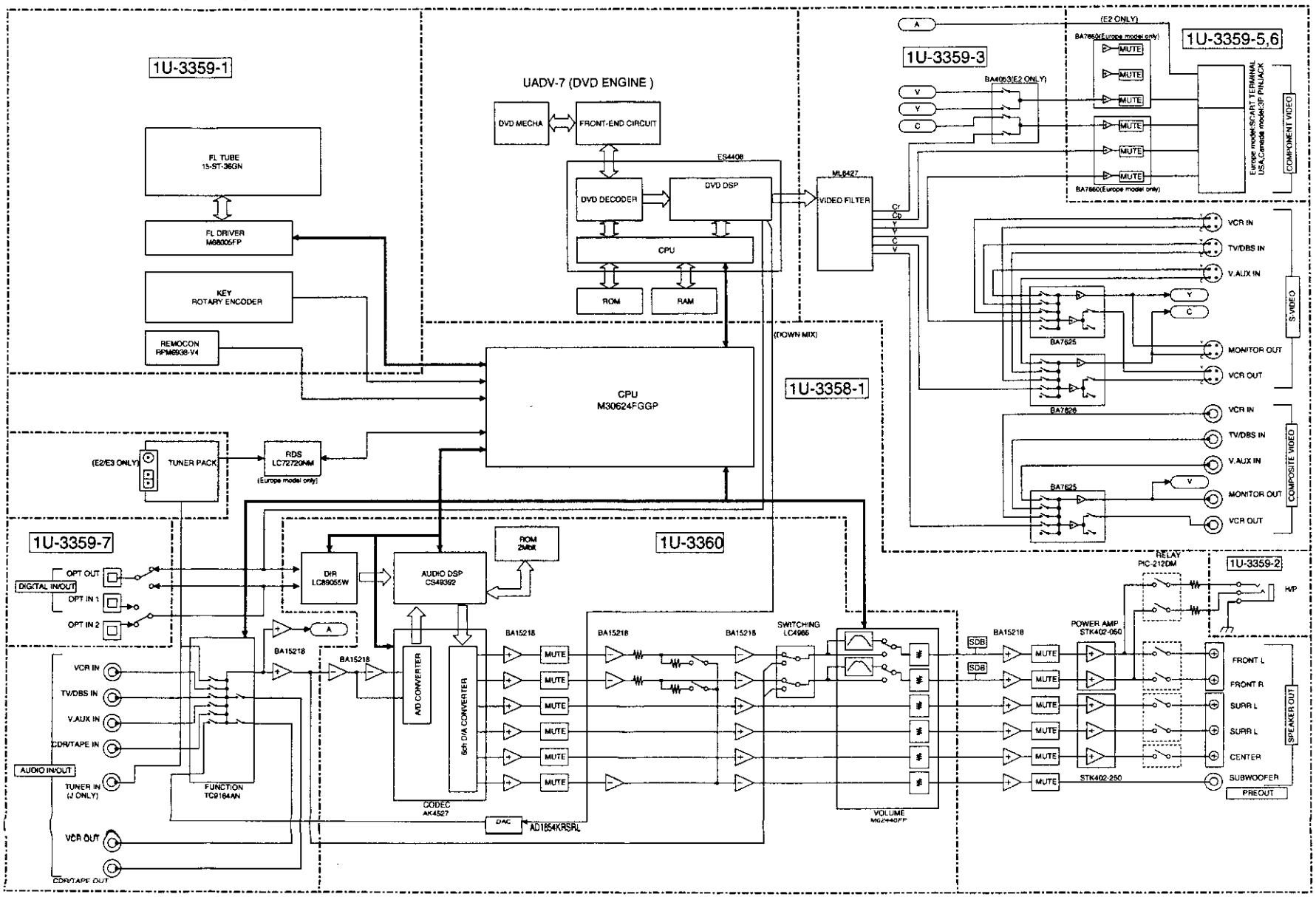
CB Signal Output
*: 486 mVp-p ±11mV for U.S.A. & Canada model

BLOCK DIAGRAMS

ADV-700 BLOCK DIAGRAM (1/2)
(Mechanism section)

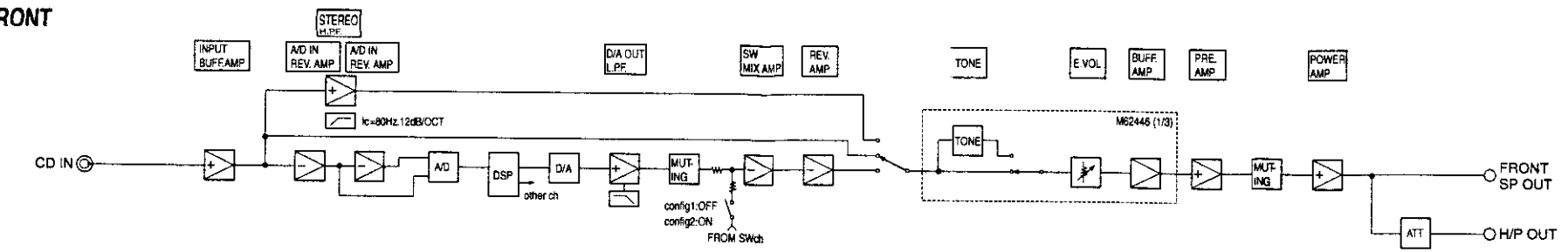


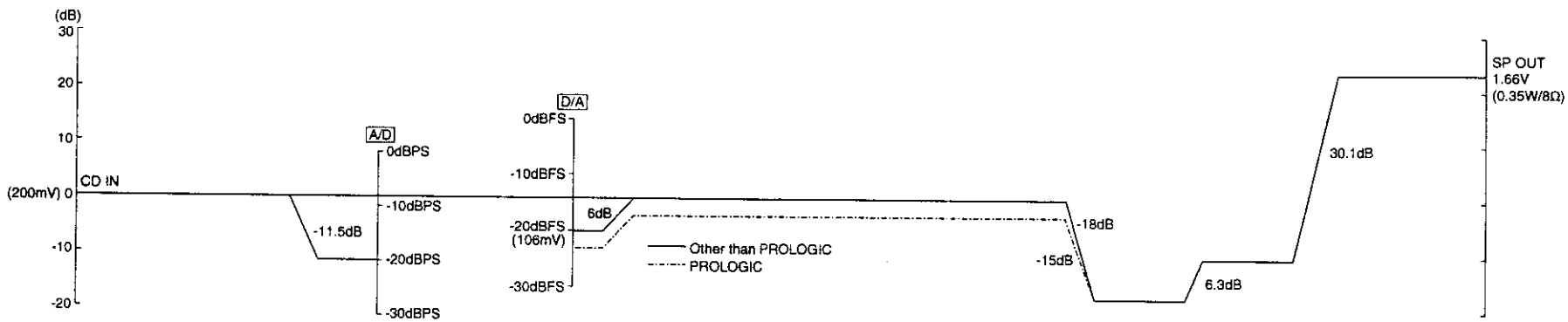
ADV-700 BLOCK DIAGRAM (2/2)



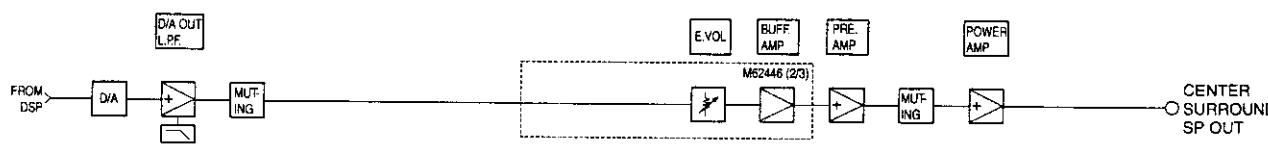
LEVEL DIAGRAMS

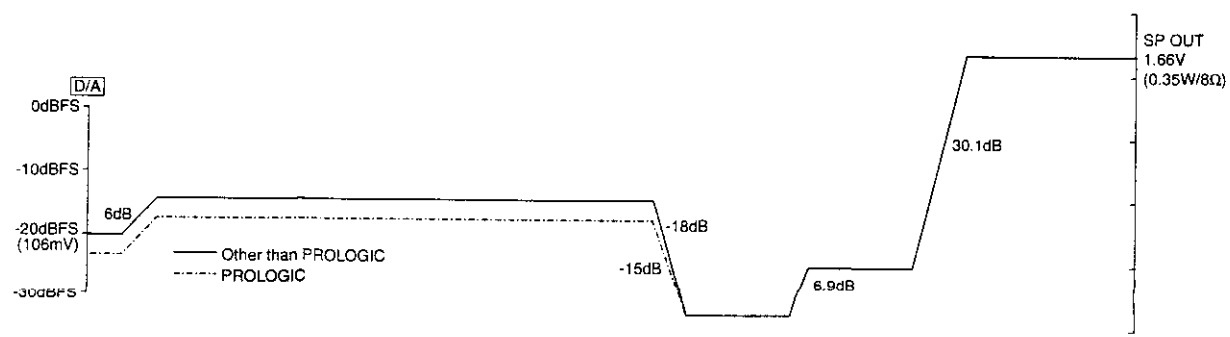
FRONT



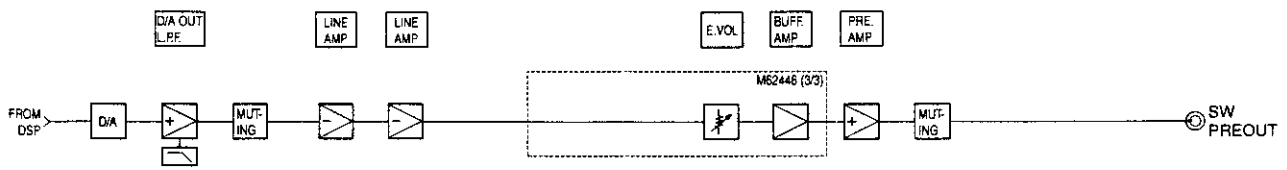


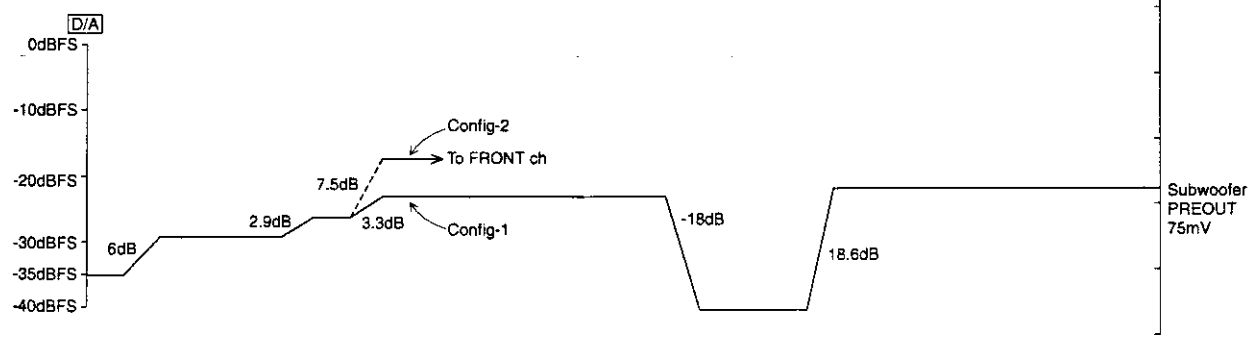
CENTER SURROUND



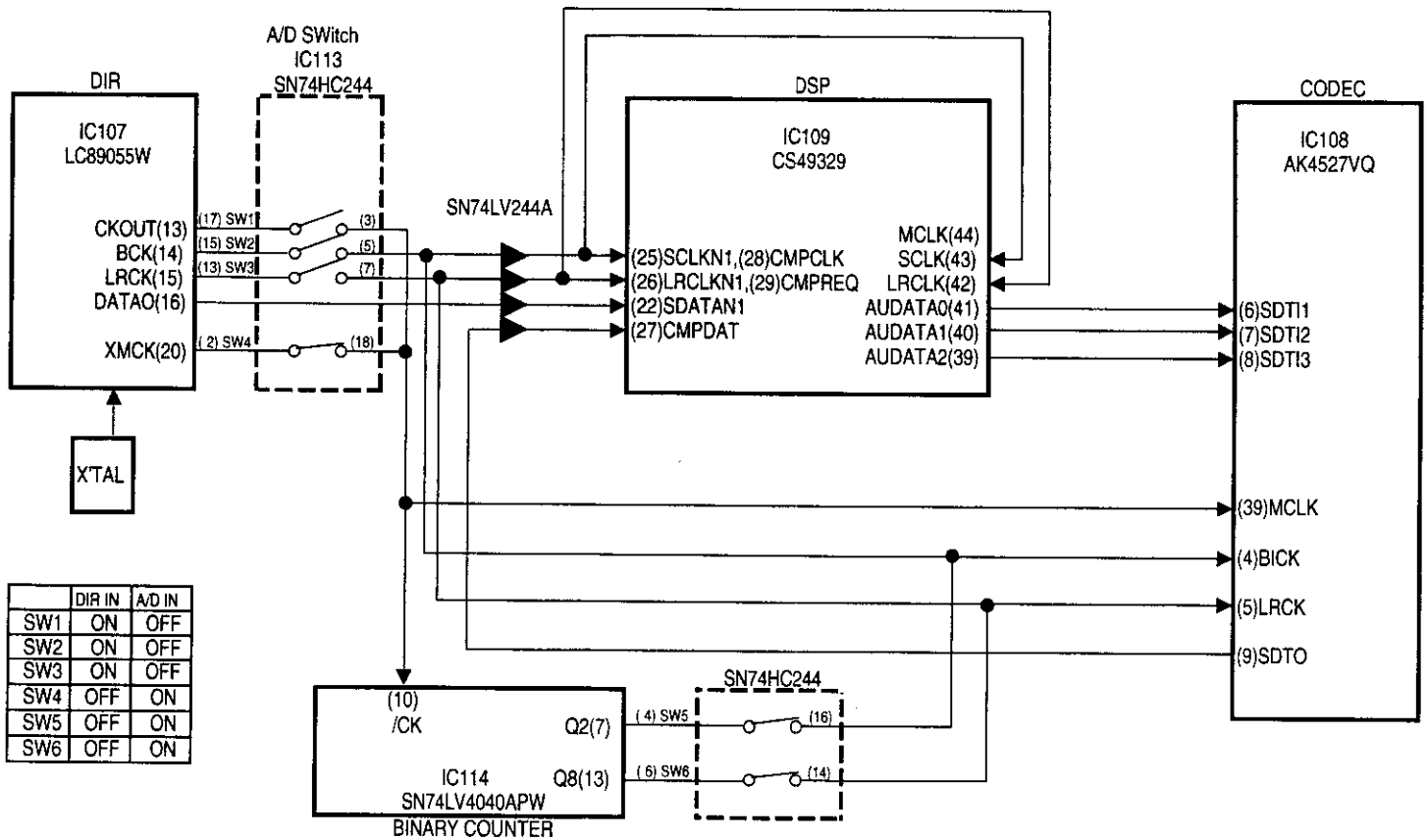


SUBWOOFER


D/A OUT L.P.F.
LINE AMP
LINE AMP
E.VOL
BUFF. AMP
PRE. AMP
M62446 (3/3)
FROM DSP
D/A
MUT-ING
MUT-ING
SW PREOUT


D/A
0dBFS
-10dBFS
-20dBFS
-30dBFS
-35dBFS
-40dBFS
6dB
2.9dB
7.5dB
3.3dB
Config-2
To FRONT ch
Config-1
-18dB
18.6dB
Subwoofer PREOUT 75mV

CLOCK FLOW



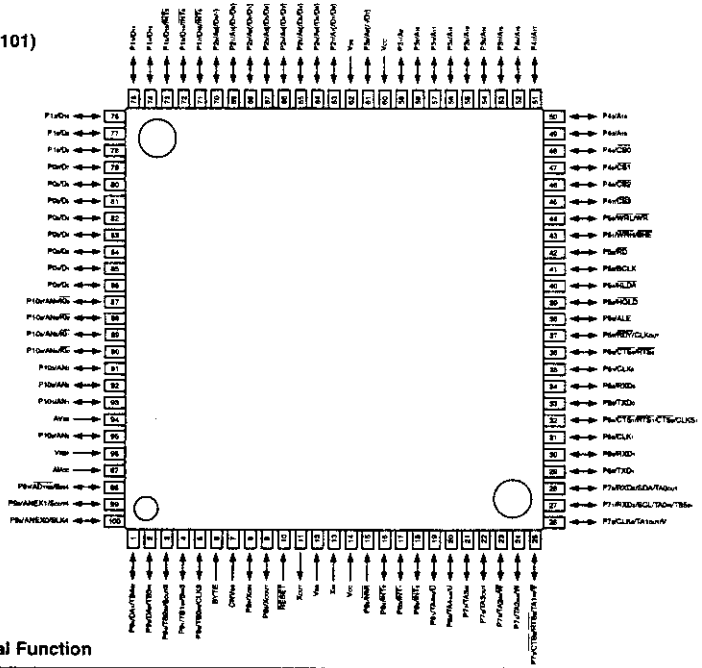
	DIR IN	A/D IN
SW1	ON	OFF
SW2	ON	OFF
SW3	ON	OFF
SW4	OFF	ON
SW5	OFF	ON
SW6	OFF	ON

SEMICONDUCTORS

● IC's

Note: Abbreviation ahead of IC No. indicates the name of P.W.B.
DVD: DVD Main P.W.B.
MA: Main P.W.B.
D/V: Display / Video P.W.B.
DS: DSP P.W.B.

M30624FG (MA: IC101)



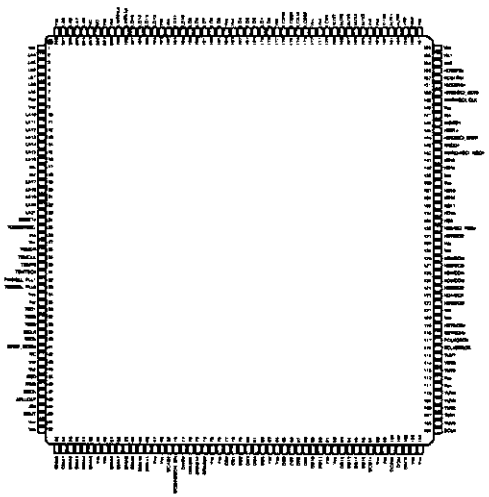
M30624FG Terminal Function

Pin No.	Port Name	Symbol	Function
1	P94	E2P CS	Chip select signal to EEPROM
2	P93	62446 LATCH	Serial data latch to E. VR IC
3	P92	62446 DATA, E2P DI, FUNC DA	Serial data to EEPROM/E. VR IC/Input Switch IC
4	P91	E2P DO	Serial data from EEPROM
5	P90	62446 CLK, E2P SK, FUNC CLK	Serial clock to EEPROM/E. VR IC/Input Switching IC
6	BYTE	(VSS)	GND
7	CNVSS	(PullDown), FLASH CNVss	Flash write mode select input
8	P87	BUS ON/OFF	Serial data/clock separate command output to E. VR IC
9	P86	FUNC CE(STB)	Data latch to input Switch IC
10	RESET	RESET	Reset input
11	XOUT	XTAL(12.5MHz)	Oscillator output (12.5 MHz)
12	VSS	(VSS)	GND
13	XIN	XTAL(12.5MHz)	Oscillator input (12.5 MHz)
14	VCC	(VCC)	Power supply
15	P85	(PullUp)	NMI, not used
16	P84	PROTECT	Speaker and Drive IC abnormal detect
17	P83	/CS	Comm. chip select input with DVD

Pin No.	Port Name	Symbol	Function
18	P82	RESERVED(DENON BUS)	Arbitration input on DENON BUS (same as serial data)
19	P81	50/60	Detect input of power pulse (50/60 Hz)
20	P80	FAN ON/OFF	Fan motor drive output
21	P77	IN JOGB	JOG pulse input B for function switching
22	P76	IN JOGA	JOG pulse input A for function switching
23	P75	VOL JOGB	JOG pulse input B for VOL
24	P74	VOL JOGA	JOG pulse input A for VOL
25	P73	FLCS	Chip select output to FL Driver IC
26	P72	RESERVED(DENON BUS)	Serial sync clock output on DENON BUS
27	P71	RESERVED(DENON BUS)	Serial data input on DENON BUS
28	P70	RESERVED(DENON BUS)	Serial data output on DENON BUS
29	P67	FLDA, FLASH TxD	Serial data output to FL Driver IC
30	P66	PULL DOWN, FLASH RxD	Open pin, serial data input at flash write
31	P65	FLCK, FALSH MODE, FLASH CLK	Serial clock output to FL Driver IC
32	P64	FL RESET, FLASH BUSY	Reset output to FL Driver IC
33	P63	sDATAout(DVD)	Serial comm. output with DVD
34	P62	sDATAin(DVD)	Serial comm. input with DVD
35	P61	SCLK(DVD)	Serial comm. clock input with DVD
36	P60	PWRON(DVD)	Power control output for DVD unit
37	RDY/P57	/RESET	Reset output to DVD unit
38	ALE/P56	H/P SW	Headphone on/off detect input
39	HOLD/P55	LED G, FLASH EPM	Control output to power indicator LED green
40	HLDA/P54	/DFRES	Reset detect signal for DVD unit
41	BCLK/P53	DVD ON/OFF	Power control output for DVD unit
42	RD/P52	RGB H	Composite/S/RGB switching, aspect ratio switching
43	WRH/BHE/P51	VCNT1/YC H	Aspect ratio switching input (16:9, 4:3LB, 4:3)
44	WRL/WR/P50	LED R, FLASH CE	Control output to power indicator LED red
45	CS3/P47	VCNT2/WIDE	Aspect ratio switching input (16:9, 4:3LB, 4:3), WIDE
46	CS2/P46	DSEL1	Digital in/out select output
47	CS1/P45	S-SEL	Select output of monitor source internal/external
48	CS0/P44	A	Select output A of external input source
49	A19/P43	B	Select output B of external input source
50	A18/P42	C	Select output C of external input source
51	A17/P41	SCART MUTE	Mute output of SCART pin
52	A16/P40	TEMP	Temp. sensor input
53	A15/P37	DSEL2	Open
54	A14/P36	SDB ON/OFF	SDB ON/OFF output
55	A13/P35	FRT MUTE(VR MUTE)	Mute output of all channel (mute output of front channel)
56	A12/P34	SW MUTE	Mute output of sub-woofer channel
57	A11/P33	RL FRONT	Speaker relay ON/OFF output of front channel
58	A10/P32	RL SURR	Speaker relay ON/OFF output of surround channel
59	A9/P31	RL CENT	Speaker relay ON/OFF output of center channel
60	VCC	(VCC)	Power supply
61	A8/P30	RL HP	Headphone relay ON/OFF output
62	VSS	(VSS)	GND
63	A7/P27	OPEN	Open
64	A6/P26	STEREO	Tuner's stereo indicator input
65	A5/P25	TUNED	Tuner's station detect input
66	A4/P24	T.MUTE	Tuner's mute output
67	A3/P23	SANYO CE	Comm. chip enable output to PLL/RDS IC of tuner
68	A2/P22	SANYO DI	Serial data output to PLL/RDS IC of tuner
69	A1/P21	SANYO CLK	Serial clock output to PLL/RDS IC of tuner
70	A0/P20	SANYO DO	Serial data input from PLL/RDS IC of tuner
71	D15/P17	INTREQ OUT	Comm. request input from surround DSP

Pin No.	Port Name	Symbol	Function
72	D14/P16	89055 CSFLAG	Signal change detect input from DIR
73	D13/P15	REMOTE	IR remote control input
74	D12/P14	/SYR	Reset output to RDS IC of tuner
75	D11/P13	INTREQ IN	Open drain operation (L: output, H: switch to input)
76	D10/P12	4932 CE	Serial comm. chip enable output to surround DSP
77	D9/P11	4932 RST	Reset output to surround DSP
78	D8/P10	4527 CE	Serial comm. chip enable output to CODEC(AD/DA)
79	D7/P07	ROM/RAM	ROM/RAM used surround DSP select output
80	D6/P06	ROM2	ROM address used surround DSP select output
81	D5/P05	ROM3	ROM address used surround DSP select output
82	D4/P04	ROM30	ROM address used surround DSP select output
83	D3/P03	ERR MUTE	Digital mute output when error
84	D2/P02	SEL CLK	Data clock select output
85	D1/P01	4527 RST	Reset output to CODEC
86	D0/P00	89055 CE	Serial comm. enable output to DIR
87	P107	96 DET	96kHz sampling signal detect input from DIR
88	P106	89055 ERR	Error input from DIR
89	P105	89055 RST	Reset output to DIR
90	P104	P.ON/OFF	Whole unit's power ON/OFF (standby) output
91	P103	AAC	AAC function on/off select input
92	P102	MODE1	Unit's operation spec select input
93	P101	KEY 0	Button operation detect input
94	AVSS	(VSS)	GND
95	P100	KEY 1	Button operation detect input
96	VREF	(VCC)	Ref. V input for A/D conversion
97	AVCC	(VCC)	Power supply
98	P96	89055 DO, 4932 DO	Serial data input from DIR/CODEC/DSP
99	P97	89055 DIN, 4527 DIN, 4932 DIN	Serial data output to DIR/CODEC/DSP
100	P95	89055 CLK, 4527 CLK, 4932 CLK	Serial clock output to DIR/CODEC/DSP

ES4408F (DVD: IC101)



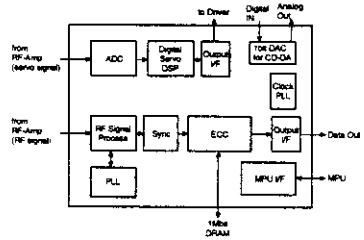
ES4408F Terminal Function

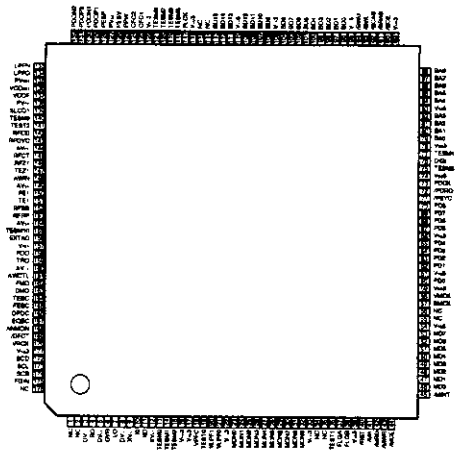
Pin No.	Pin Name	I/O	Function	Pin No.	Pin Name	I/O	Function
1	Vcc	I	3.6V power supply	29	TDMCLK	I	TDM clock input
2	LA 4	O	Device address output	30	TDMFS	I	TDM frame sync
3	LA 5	O	Device address output	31	TDMTSC#	O	TDM output enable, active low
4	LA 6	O	Device address output	32	TWS	O	Audio transmit frame sync
5	LA 7	O	Device address output		SEL_PLL1	I	Select PLL1
6	LA 8	O	Device address output	33	TSD0	O	Audio transmit serial data port0
7	LA 9	O	Device address output		SEL_PLL0	I	Select PLL0
8	Vss	I	GND	34	Vss	I	GND
9	Vcc	I	3.6V power supply	35	Vcc	I	3.6V power supply
10	LA 10	O	Device address output	36	TSD1	O	Audio transmit serial data port1
11	LA 11	O	Device address output	37	TSD2	O	Audio transmit serial data port2
12	LA 12	O	Device address output	38	TSD3	O	Audio transmit serial data port3
13	LA 13	O	Device address output	39	MCLK	I/O	Audio master clock for audio DAC
14	LA 14	O	Device address output	40	TBCK	I/O	Audio transmit bit clock
15	LA 15	O	Device address output	41	SPDIF_DOBM	O	S/PDIF (IEC958) format output
16	LA 16	O	Device address output	42	NC		No connect pin
17	Vss	I	GND	43	Vss	I	GND
18	Vcc	I	3.6V power supply	44	Vcc	I	3.6V power supply
19	LA 17	O	Device address output	45	RSD	I	Audio receive serial data
20	LA 18	O	Device address output	46	RWS	I	Audio receive frame sync
21	LA 19	O	Device address output	47	RBCK	I	Audio receive bit clock
22	LA 20	O	Device address output	48	APLLCAP	I	Analog PLL capacitor
23	LA 21	O	Device address output	49	XIN	I	Crystal input
24	RESET#	I	Reset input, active low	50	XOUT	O	Crystal output
---	TDMDX HSEL	O I	TDM transmit data ROM select	51 52	Vcc Vss	I I	3.6V power supply GND
26	Vss	I	GND	53	DMA 0	O	DRAM address bus
27	Vcc	I	3.6V power supply	54	DMA 1	O	DRAM address bus
28	TDMDR	I	TDM receive data	55	DMA 2	O	DRAM address bus

Pin No.	Pin Name	I/O	Function	Pin No.	Pin Name	I/O	Function
56	DMA 3	O	DRAM address bus	108	YUV 2	O	8-bit YUV output
57	DMA 4	O	DRAM address bus	109	YUV 3	O	8-bit YUV output
58	DMA 5	O	DRAM address bus	110	YUV 4	O	8-bit YUV output
59	Vcc	I	3.6V power supply	111	Vcc	I	3.6V power supply
60	Vss	I	GND	112	Vss	I	GND
61	DMA 6	O	DRAM address bus	113	YUV 5	O	8-bit YUV output
62	DMA 7	O	DRAM address bus	114	YUV 6	O	8-bit YUV output
63	DMA 8	O	DRAM address bus	115	YUV 7	O	8-bit YUV output
64	DMA 9	O	DRAM address bus	116	PCLK2XSCN	I/O	2X pixel clock
65	DMA 10	O	DRAM address bus	117	PCLKQSCN	I/O	Pixel clock
66	DMA 11	O	DRAM address bus	118	VSYNCH#	I/O	Vertical sync for screen video interface, programmable for rising or falling edge, active low
67	Vss	I	GND				
68	Vcc	I	3.6V power supply				
69	DCAS#	O	Column address strobe, active low	119	HSYNCH#	I/O	Horizontal sync for screen video interface, programmable for rising or falling edge, active low
70	DOE#	O	Output enable, active low				
	DSCK_EN	I	Clock enable, active low	120	Vss	I	GND
71	DWE#	O	DRAM write enable, active low	121	Vcc	I	3.6V power supply
72	DRAS 0#	O	Row address strobe, active low	122	HD 0	I/O	Host data bus
73	DRAS 1#	O	Row address strobe, active low	123	HD 1	I/O	Host data bus
74	DRAS 2#	O	Row address strobe, active low	124	HD 2	I/O	Host data bus
75	Vcc	I	3.6V power supply	125	HD 3	I/O	Host data bus
76	Vss	I	GND	126	HD 4	I/O	Host data bus
77	DB 0	I/O	DRAM data bus	127	HD 5	I/O	Host data bus
78	DB 1	I/O	DRAM data bus	128	HD 6	I/O	Host data bus
79	DB 2	I/O	DRAM data bus	129	Vss	I	GND
80	DB 3	I/O	DRAM data bus	130	Vcc	I	3.6V power supply
81	DB 4	I/O	DRAM data bus	131	HD 7	I/O	Host data bus
82	DB 5	I/O	DRAM data bus	132	HD 8	I/O	Host data bus
83	Vcc	I	3.6V power supply	133	HD 9	I/O	Host data bus
84	Vss	I	GND	134	HD 10	I/O	Host data bus
85	DB 6	I/O	DRAM data bus	135	HD 11	I/O	Host data bus
86	DB 7	I/O	DRAM data bus	136	HD 12	I/O	Host data bus
87	DB 8	I/O	DRAM data bus	137	HD 13	I/O	Host data bus
88	DB 9	I/O	DRAM data bus	138	Vss	I	GND
89	DB 10	I/O	DRAM data bus	139	Vcc	I	3.6V power supply
90	DB 11	I/O	DRAM data bus	140	HD 14	I/O	Host data bus
91	Vss	I	GND	141	HD 15	I/O	Host data bus
92	Vcc	I	3.6V power supply	142	HWRQ#	O	Host write request
93	DB 12	I/O	DRAM data bus	143	HRDQ#	O	Host read request
94	DB 13	I/O	DRAM data bus	144	HIRQ	I/O	Host interrupt
95	DB 14	I/O	DRAM data bus	145	HRST#	O	Host reset
96	DB 15	I/O	DRAM data bus	146	HIORDY	I	Host I/O ready
97	DCS 1#	O	SDRAM chip select [1], active low	147	Vss	I	GND
98	Vss	I	GND	148	Vcc	I	3.6V power supply
99	Vcc	I	3.6V power supply	149	HWR#	O	Host write request
100	DCS 0#	O	SDRAM chip select [0], active low		HWR#/DCI_ACK#	I, I	Host write / DCI interface acknowledge signal, active low
101	DQM	O	Data input/output mask				
102	DSCK	O	Clock to SDRAM	150	HRD#/DCI_CLK	I, I	Host read / DCI interface clock
103	Vss	I	GND	151	HIOCS16#	I	Device 16-bit data transfer
104	Vcc	I	3.6V power supply	152	HCS1FX#	O	Host select 1
105	DCLK	I	Clock input (27MHz)	153	HCS3FX#	O	Host select 3
106	YUV 0	O	8-bit YUV output	154	HA 0	I/O	Host address bus
107	YUV 1	O	8-bit YUV output	155	HA 1	I/O	Host address bus

Pin No.	Pin Name	I/O	Function
156	Vss	I	GND
157	Vcc	I	3.6V power supply
158	HA 2	I/O	Host address bus
159	VPP	I	Peripheral protection voltage
160	AUX 0	I/O	Auxiliary port, (SDATA) I/O
161	AUX 1	I/O	Auxiliary port, (SCLK) O
162	AUX 2	I/O	Auxiliary port, (VFD DATA) I/O
163	Vss	I	GND
164	Vcc	I	3.6V power supply
165	AUX 3	I/O	Auxiliary port, (AMUTE) O
166	AUX 4	I/O	Auxiliary port, (IR) I
167	AUX 5	I/O	Auxiliary port, (POWER) I
168	AUX 6	I/O	Auxiliary port, (VFDCS) O
169	AUX 7	I/O	Auxiliary port, (VFDCLK) O
170	LOE#	O	Device output enable, active low
171	Vss	I	GND
172	Vcc	I	3.6V power supply
173	LCS 0#	O	Chip select [0], active low
174	LCS 1#	O	Chip select [1], active low
175	LCS 2#	O	Chip select [2], active low
176	LCS 3#	O	Chip select [3], active low
177	Vss	I	GND
178	LD 0	I/O	Device data bus
179	LD 1	I/O	Device data bus
180	LD 2	I/O	Device data bus
181	LD 3	I/O	Device data bus
182	LD 4	I/O	Device data bus
183	Vcc	I	3.6V power supply
184	Vss	I	GND
185	LD 5	I/O	Device data bus
186	LD 6	I/O	Device data bus
187	LD 7	I/O	Device data bus
188	LD 8	I/O	Device data bus
189	LD 9	I/O	Device data bus
190	LD 10	I/O	Device data bus
191	LD 11	I/O	Device data bus
192	Vss	I	GND
193	Vcc	I	3.6V power supply
194	LD 12	I/O	Device data bus
195	LD 13	I/O	Device data bus
196	LD 14	I/O	Device data bus
197	LD 15	I/O	Device data bus
198	LWRLL#	O	Device write enable, active low
199	LWRHL#	O	Device write enable, active low
200	Vss	I	GND
201	Vcc	I	3.6V power supply
202	NC		No connect pin
203	NC		No connect pin
204	LA 0	O	Device address output
205	LA 1	O	Device address output
206	LA 2	O	Device address output
207	LA 3	O	Device address output
208	Vss	I	GND

TC9453F (DVD: IC505)





TC9453F Terminal Function

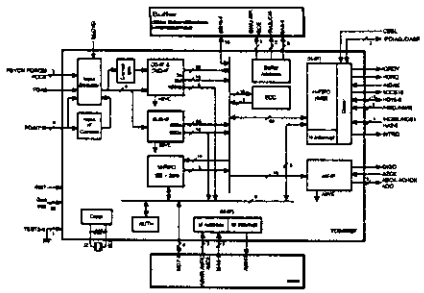
Pin No.	Pin Name	I/O	Function
1	NC		—
2	NC		—
3	DVss		GND for DAC
4	RO	O	R-ch output signal, Analog output pin
5	DVDD		Power for DAC
6	DVR	O	Amp ref. signal output, Analog input pin
7	LO	O	L-ch output signal, Analog output pin
8	DVss		GND for DAC
9	XVss		GND for oscillator
10	XI	I	X'tal osc. input, Analog input pin
11	XO	O	X'tal osc. output, Analog output pin
12	XVDD		Power for oscillator
13	TESM0		Test pin, Connect to GND
14	TESM1		Test pin, Open
15	TESM2		Test pin, Connect to VDD3
16	VDD3		3.3V digital power
17	Vss3		3.3V digital GND
18	VPFC	O	Clock PLL block phase/freq. comparator out, Analog output pin
19	TEST0	I	Test mode pin, Connect to VDD3
20	VLPFI	I	VCO block filter input for clock PLL, Analog input pin
21	VLPFO	O	VCO block filter output for clock PLL, Analog output pin
22	Vss3		3.3V digital GND
23	MON0	O	Test monitor
24	MON1	O	Test monitor
25	MON2	O	Test monitor
26	MON3	O	Test monitor
27	MON4	O	Test monitor
28	MON5	O	Test monitor
29	MON6	O	Test monitor
30	MON7	O	Test monitor
31	MON8	O	Test monitor
32	MON9	O	Test monitor
33	VDD3		3.3V digital power
34	NC		—
35	NC		—
36	TEST1	I	Test mode pin, Connect to VDD3
37	FLGA	I/O	Universal I/O or flag monitor
38	FLGB	I/O	Universal I/O or flag monitor
39	Vss3		3.3V digital GND
40	/RST	I	Reset pin, Pull-up resister built-in

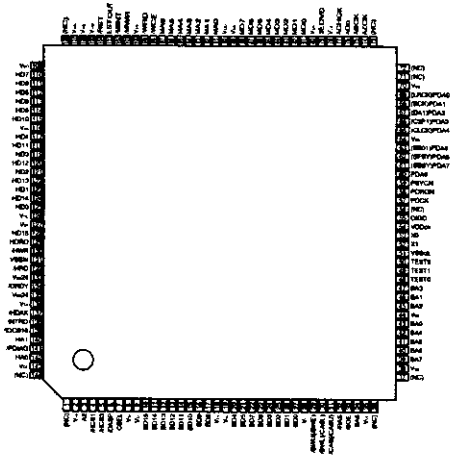
Pin No.	Pin Name	I/O	Function
41	/MA	I	µcom address enable signal, Fail-safe pin
42	/MRD	I	µcom data read signal, Fail-safe pin
43	/MWR	I	µcom data write signal, Fail-safe pin
44	/MCE	I	µcom chip enable signal, Fail-safe pin
45	/MINT	O	µcom interrupt signal, Open drain pin
46	MD0	O	µcom data bus
47	MD1	O	µcom data bus
48	MD2	O	µcom data bus
49	MD3	O	µcom data bus
50	MD4	O	µcom data bus
51	MD5	O	µcom data bus
52	MD6	O	µcom data bus
53	MD7	O	µcom data bus
54	VDD5		Power for 5V
55	NC		—
56	NC		—
57	SMCK	O	22M block clock output
58	VMCK	O	Data output block (signal processing system) clock output
59	VDD3		3.3V digital power
60	PD0	O	DVD/CD data output
61	VSS5		GND for 5V
62	PD1	O	DVD/CD data output
63	PD2	O	DVD/CD data output
64	PD3	O	DVD/CD data output
65	PD4	O	DVD/CD data output
66	VSS3		3.3V digital GND
67	PD5	O	DVD/CD data output
68	PD6	O	DVD/CD data output
69	PD7	O	DVD/CD data output
70	PD8	O	DVD/CD data output
71	/PSYC	O	DVD data sector sync signal
72	/PDRQ	O	DVD data transfer block
73	PDCK	O	DVD data transfer clock
74	VDD5		Power for 5V
75	TESM3		Test pin, Connect to VSS5
76	DIGI	I	1bit DAC digital-in input
77	TESM4		Test pin, Connect to VSS5
78	VDD3		3.3V digital power
79	BA0	O	External RAM address output
80	BA1	O	External RAM address output
81	BA2	O	External RAM address output
82	BA3	O	External RAM address output
83	VSS5		GND for 5V
84	BA4	O	External RAM address output
85	BA5	O	External RAM address output
86	BA6	O	External RAM address output
87	BA7	O	External RAM address output
88	BA8	O	External RAM address output
89	VDD3		3.3V digital power
90	/BOE	O	External RAM/OE signal
91	/BRAS	O	External RAM/RAS signal
92	/BCAS	O	External RAM/CAS signal
93	/BWL	O	External RAM Lower/WE signal
94	/BWU	O	External RAM Upper/WE signal
95	VDD5		Power for 5V
96	BD0	I/O	External RAM data in/output
97	BD1	I/O	External RAM data in/output
98	BD2	I/O	External RAM data in/output
99	BD3	I/O	External RAM data in/output
100	BD4	I/O	External RAM data in/output
101	BD5	I/O	External RAM data in/output
102	BD6	I/O	External RAM data in/output
103	BD7	I/O	External RAM data in/output
104	BD8	I/O	External RAM data in/output
105	VSS3		3.3V digital GND
106	BD9	I/O	External RAM data in/output
107	BD10	I/O	External RAM data in/output
108	BD11	I/O	External RAM data in/output

Pin No.	Pin Name	I/O	Function
109	BD12	I/O	External RAM data in/output
110	VSS5		GND for 5V
111	BD13	I/O	External RAM data in/output
112	BD14	I/O	External RAM data in/output
113	BD15	I/O	External RAM data in/output
114	NC		—
115	NC		—
116	VDD3		3.3V digital power
117	PLCK	I/O	PLL block clock in/output
118	TESM5		Test pin, Connect to GND
119	TESM6		Test pin, Connect to GND
120	TESM7		Test pin, Open
121	TESM8		Test pin, Open
122	VSS3		3.3V digital GND
123	CFC*	O	VCO frequency control signal, Analog output pin
124	CFC2	O	VCO frequency control signal, Analog output pin
125	PPW	O	Phase comparator offset adj. V out, Analog output pin
126	PESV	I	Phase comparator offset adj. sig. in, Analog input pin
127	PVSS		GND for 3.3V PLL block
128	PESP	O	Phase comparator offset adj. sig. out, Analog output pin
129	PDOP1	O	DVD/CD phase control sig. (positive), Analog output pin
130	PDON1	O	DVD/CD phase control sig. (negative), Analog output pin
131	PDOP2	O	DVD/CD phase control sig. (positive), Analog output pin
132	PDON2	O	DVD/CD phase control sig. (negative), Analog output pin
133	LPFN	I	Data PLL low pass filter inverted input, Analog input pin
134	LPFO	O	Data PLL low pass filter output, Analog output pin
135	PVREF		Ref. V for data PLL block
136	VCOREF	I	VCO reference, Analog input pin
137	VCOF	I	VCO auto-adj. filter out, Analog input pin
138	PVDD		Power for 3.3V PLL block
139	SLCO1	O	Data slice 6bitDAC out, Analog output pin
140	TESM9		Test pin, Open
141	TEST2	I	Test mode pin, Connect to VDD3
142	RFCD	I	CD RF signal input, Analog input pin
143	RFDVD	I	DVD RF signal input, Analog input pin
144	AVDC		Power for 3.3V analog block
145	RFCT	I	RFRP center V input (zero-cross intake), Analog input pin
146	RFZI	I	RFRP signal input (zero-cross intake), Analog input pin
147	TEZI	I	Tracking error signal input (zero-cross intake), Analog input pin
148	AWIN	I	Active wide PLL control signal input, Analog input pin
149	AVSS		GND for 3.3V analog block
150	FEI	I	Focus error signal input, Analog input pin
151	TEI	I	Tracking error signal input, Analog input pin
152	RFSB	I	RF level or sub beam signal add input, Analog input pin
153	RFRP	I	RFRP signal input, Analog input pin
154	SAVSS		GND for 3.3V analog block
155	TESM10		Test pin, Connect to VREF
156	EXTAD	I	Universal outside ADC input, Analog input pin
157	VREF		Ref. V (1.65V) for analog block
158	FOO	O	Focus EQ output, Analog output pin
159	TRO	O	Tracking EQ output, Analog output pin
160	AVDD		Power for 3.3V analog block
161	AWCTL	O	Active wide PLL control output, Analog output pin
162	FMO	O	Focus EQ output, Analog output pin
163	DMO	O	Disc EQ output, Analog output pin
164	TEBC	O	Tracking balance control signal, Analog output pin
165	FEBC	O	Focus balance control signal, Analog output pin
166	DPDC	O	DPD error signal pit depth adj. signal, Analog output pin
167	EQBC	O	RF wide boost adj. signal, Analog output pin
168	ANMON	O	Universal PWM output, Analog output pin
169	/DFCT	O	Black dot detect signal
170	VRCK	O	RF EQ characteristic control clock
171	VSS3		3.3V digital GND
172	SCD	O	Head amp serial data
173	SCL	O	Head amp serial data latch pulse
174	SCB	O	Head amp serial data clock
175	FGIN	I	Disc FG signal input (w/self-bias circuit), Feedback R/Analog input pin
176	NC		—

* Pin names begin with "/" are active "L" terminals.

TC9469BF (DVD: IC508)





TC9469BF Terminal Function

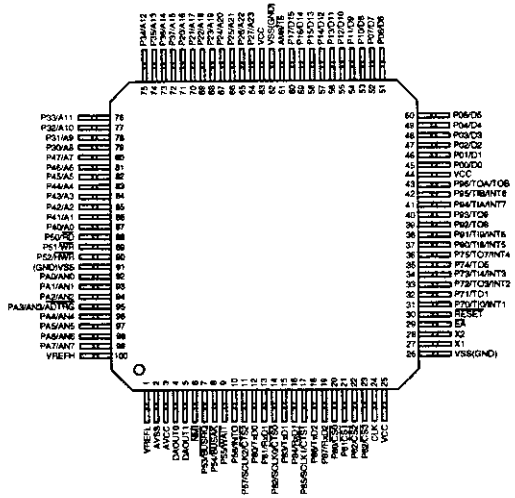
Pin No.	Pin Name	I/O	Function
1	NC	—	—
2	Vss	—	GND pin
3	HA2	I	Host address 2 input: IDE sig. DA2, TTL level input, pull-up R built-in
4	/HCS1	I	Chip select 1 input: IDE sig. /CS1FX, TTL level input, pull-up R built-in
5	HCS3	I	Chip select 3 input: IDE sig. /CS3FX, TTL level input, pull-up R built-in
6	/DASP	I/O	Drive active in/output: IDE sig. /DASP, TTL level input, open drain out, pull-up R built-in
7	CSEL	I	Cable select pin: IDE sig. CSEL
8	Vss	—	GND pin
9	Vdd	—	Power pin
10	BD15	I/O	Buffer RAM data in/output, at low power: output
11	BD14	I/O	Buffer RAM data in/output, at low power: output
12	BD13	I/O	Buffer RAM data in/output, at low power: output
13	BD12	I/O	Buffer RAM data in/output, at low power: output
14	BD11	I/O	Buffer RAM data in/output, at low power: output
15	BD10	I/O	Buffer RAM data in/output, at low power: output
16	BD9	I/O	Buffer RAM data in/output, at low power: output
17	BD8	I/O	Buffer RAM data in/output, at low power: output
18	Vdd	—	Power pin
19	Vss	—	GND pin
20	BD4	I/O	Buffer RAM data in/output, at low power: output
21	BD5	I/O	Buffer RAM data in/output, at low power: output
22	BD7	I/O	Buffer RAM data in/output, at low power: output
23	BD6	I/O	Buffer RAM data in/output, at low power: output
24	BD3	I/O	Buffer RAM data in/output, at low power: output
25	BD2	I/O	Buffer RAM data in/output, at low power: output
26	BD1	I/O	Buffer RAM data in/output, at low power: output
27	BD0	I/O	Buffer RAM data in/output, at low power: output
28	Vss	—	GND pin
29	/BWU	O	For write enable bit (for /BWE sig.), at low power: H
30	/BWL	O	For /CAS signal lower 8bit (for /CASL sig.), at low power: H
31	/CAS	O	For /CAS signal upper 8bit (for /CASU sig.), at low power: H
32	/RAS	O	RAS signal output, at low power: H
33	/BOE	O	Output enable, at low power: H
34	BA8	O	Buffer address output
35	Vdd	—	Power pin

Pin No.	Pin Name	I/O	Function
36	NC	—	—
37	NC	—	—
38	Vss	—	GND pin
39	BA7	O	Buffer address output
40	BA6	O	Buffer address output
41	BA5	O	Buffer address output
42	BA4	O	Buffer address output
43	BA0	O	Buffer address output
44	Vss	—	GND pin
45	BA2	O	GND pin
46	BA1	O	GND pin
47	BA3	O	Buffer address output
48	TEST0	I	Test pin, Fixed to "L"
49	TEST1	I	Test pin, Fixed to "L"
50	TEST2	I	Test pin, Fixed to "L"
51	Vssck		GND pin (for clock system)
52	XI	I	Master clock in/output, feedback R built-in
53	XO	O	Master clock in/output, feedback R built-in
54	Vddck		Power pin (for clock system)
55	DIGO	O	Digital out pin
56	NC	—	—
57	PDCK	I	Data read clock input
58	PDRQN	I	Data effective flag input
59	PSYCN	I	Sync signal input
60	PDA8	I	Parallel data 8 input
61	PDA7	I	Parallel data 7 input
62	PDA6	I	Parallel data 6 input
63	PDA5	I	Parallel data 5 input
64	Vss	—	GND pin
65	PDA4	I	Parallel data 4 input
66	PDA3	I	Parallel data 3 input
67	PDA2	I	Parallel data 2 input
68	PDA1	I	Parallel data 1 input
69	PDA0	I	Parallel data 0 input
70	Vss	—	GND pin
71	NC	—	—
72	NC	—	—
73	NC	—	—
74	AZCK	I	Ref. clock input for audio playback
75	ABCK	O	Bit clock (BCK) output for audio playback
76	ADO	O	Data output for audio playback
77	ACHCK	O	Channel clock (LRCK) output for audio playback
78	Vdd	—	Power pin
79	SEDVD	I	Input IF select
80	Vss	—	GND pin
81	MD0	I/O	µcom data in/output, tri-state output
82	MD1	I/O	µcom data in/output, tri-state output
83	MD2	I/O	µcom data in/output, tri-state output
84	MD3	I/O	µcom data in/output, tri-state output
85	MD4	I/O	µcom data in/output, tri-state output
86	MD5	I/O	µcom data in/output, tri-state output
87	MD6	I/O	µcom data in/output, tri-state output
88	MD7	I/O	µcom data in/output, tri-state output
89	Vss	—	GND pin
90	Vdd	—	Power pin
91	MA0	I	µcom address input
92	MA1	I	µcom address input
93	MA2	I	µcom address input
94	MA3	I	µcom address input

Pin No.	Pin Name	I/O	Function
95	MA4	I	µcom address input
96	MA5	I	µcom address input
97	MA6	I	µcom address input
98	/MCE	I	Chip enable signal input
99	/MRD	—	µcom chip read signal input
100	Vss	—	GND pin
101	/MWR	I	µcom write signal input
102	/MINT	O	µcom interrupt signal output, open drain, pull-up R built-in
103	TESTOUT	O	Output for test, leave it open
104	/RST	I	Hardware reset input (CMOS level), pull-up R built-in
105	VDD	—	Power pin
106	Vss	—	GND pin
107	Vss	—	GND pin
108	NC	—	—
109	VDD	—	Power pin
110	HD7	I/O	Host data in/output (HD [0:15] : IDE sig. DD [0:15]), TTL level, tri-statte out, pull-up R built-in
111	HD8	I/O	
112	HD6	I/O	
113	HD9	I/O	
114	HD5	I/O	
115	HD10	I/O	
116	Vss	—	GND pin
117	HD4	I/O	Host data in/output (HD [0:15] : IDE sig. DD [0:15]), TTL level, tri-statte out, pull-up R built-in
118	HD11	I/O	
119	HD3	I/O	
120	HD12	I/O	
121	HD2	I/O	
122	HD13	I/O	
123	HD1	I/O	
124	HD14	I/O	
125	HD0	I/O	
126	VDD	—	Power pin
127	Vss	—	GND pin
128	HD15	I/O	Host data in/output (HD [0:15] : IDE sig. DD [0:15])
129	HDRQ	O	Data request output: IDE sig. DMARQ, tri-state out, drive-ability 12mA
130	/HWR	I	Host write signal input: IDE sig. /DIOW, TTL level, pull-up R built-in
131	Vsshr	—	GND pin (for /HR)
132	/HRD	I	Host read signal input: IDE sig. /DIOR, TTL level, pull-up R built-in
133	Vss24	—	GND pin (for IORDY)
134	IORDY	O	IO transfer ready output: IDE sig. IORDY, tri-state out, drive-ability 24mA
135	VDD24	—	Power pin (for IORDY)
136	Vss	—	GND pin
137	/HDAK	I	Data acknowledge input: IDE sig. /DMACK, TTL level, pull-up R built-in
138	INTRQ	O	Interrupt signal output: IDE sig. INTRQ, tri-state out, drive-ability 12mA
139	/IOCS16	O	Data bit wide select output: IDE sig. /IOCS16, open drain, pull-up R built-in
140	HA1	I	Host address 1 input: IDE sig. DA1, TTL level, pull-up R built-in
141	/PDIAG	I/O	Post diagnostic in/output: IDE sig. /PDIAG, TTL level, tri-state out, pull-up R built-in
142	HA0	I	Host address 0 input: IDE sig. DA0, TTL level, pull-up R built-in
143	VDD	—	Power pin
144	NC	—	—

* Pin names begin with "/" PSYNCN, and PDRQN are active "L" terminals.

TMP95CW64F-** (DVD: IC511)**

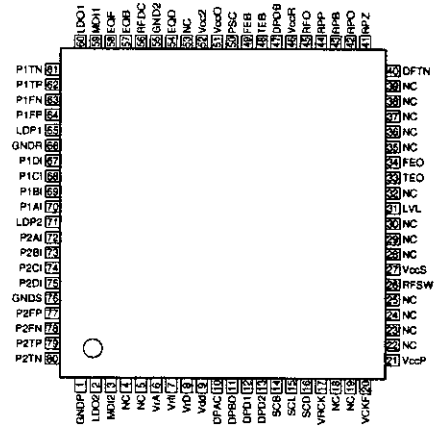


TMP95CW64F-** Terminal Function**

Pin No.	Pin Name	Symbol	I/O	Function
1	VREFL	VREFL	I	Ref. V input (L) for A/D converter
2	AVss	AVss	—	GND
3	AVcc	AVcc	—	Power
4	DAOUT0	DAOUT0	O	D/A output 0
5	DAOUT1	DAOUT1	O	D/A output 1
6	/NMI	/NMI	I	Non-maskable interrupt request pin
7	P53	STBN	O	TA8493F/BA5952FP standby pin
8	P54	AMUTE	O	Not used
9	P55			Not used
10	INT0	DSPINT	I	Interrupt input from TC9453F
11	P57	RSTN	O	Reset output of TC9453F
12	P80			Not used
13	P81			Not used
14	P82	TEST	I	Not used
15	P83			Not used
16	P84	TMM+	O	Loading motor control pin
17	P85	TMM-	O	Loading motor control pin
18	TXD2	TXD2	O	Not used
19	RXD2	RXD2	I	Not used
20	/CS0	DECCSN	O	TC9469BF chip select
21	/CS1	DSPCSN	O	TC9453F chip select
22	P62			Not used
23	P63			Not used
24	CLK			Not used
25	Vcc	Vcc	—	Power
26	Vss	Vss	—	GND
27	X1	X1	I	X'tal connection
28	X2	X2	O	X'tal connection
29	/EA	/EA	I	Power
30	/RESET	/RESET	I	Reset input pin
31	INT1	DECINT	I	Interrupt input from TC9469BF
32	P71			Not used
33	P72			Not used

Pin No.	Pin Name	Symbol	I/O	Function
34	INT3	FG	I	FG signal input from TA8493F
35	P74	BRKN	O	Brake signal output to TA8493F
36	P75			Not used
37	INT5	SLIDE_PULSE	I	Pulse counter input of slide
38	P91	P-LOW	O	PLL filter switching output
39	P92	PLLD		Not used
40	P93	P-HIGH	O	PLL filter switching output
41	P94			Not used
42	P95			Not used
43	P96	PLLB		Not used
44	VCC	VCC	—	Power
45	D0	MD0	I/O	Data bus
46	D1	MD1	I/O	Data bus
47	D2	MD2	I/O	Data bus
48	D3	MD3	I/O	Data bus
49	D4	MD4	I/O	Data bus
50	D5	MD5	I/O	Data bus
51	D6	MD6	I/O	Data bus
52	D7	MD7	I/O	Data bus
53	D8	T22		Not used
54	D9	T9		Not used
55	D10	T10		Not used
56	D11	T11		Not used
57	D12	T12		Not used
58	D13	T13		Not used
59	D14	T14		Not used
60	D15	T15		Not used
61	AM8/16	AM8/16	I	Pull-up
62	Vss	Vss	—	GND
63	Vcc	Vcc	—	Power
64	P27	BUSY	O	Busy output
65	P26	CD/DVD	O	Not used
66	P25	LAYER	O	Not used
67	P24			Not used
68	P23			Not used
69	P22			Not used
70	P21			Not used
71	A16			Not used
72	A15			Not used
73	A14			Not used
74	A13			Not used
75	A12			Not used
76	A11			Not used
77	A10			Not used
78	A9			Not used
79	A8	MA8	O	Address bus
80	A7			Not used
81	A6	MA6	O	Address bus
82	A5	MA5	O	Address bus
83	A4	MA4	O	Address bus
84	A3	MA3	O	Address bus
85	A2	MA2	O	Address bus
86	A1	MA1	O	Address bus
87	A0	MA0	O	Address bus
88	/RD	RDN	O	Strobe signal output for read
89	/WR	WRN	O	Strobe signal output for write
90	P52			Not used
91	Vss	Vss	—	Power
92	PA0	MASTER	I	Pull-down
93	PA1	SLAVE	I	Pull-up
94	PA2	CSEL	I	Pull-up
95	PA3	/CLOS	I	Loader close SW input pin
96	PA4	/OPEN	I	Loader open SW input pin
97	PA5	INSWN	I	Pickup inner SW input pin
98	AN6	+1.65V	I	Analog input pin
99	PA7	EJECT	I	Not used
100	VREFH	VREFH	I	Ref. V input (H) for A/D converter

TA1293F (DVD: IC501)

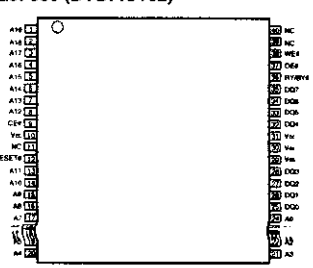


TA1293F Terminal Function

Pin No.	Pin Name	I/O	Function
1	GNDP		GND pin
2	LDO2	O	Drive pin
3	MDI2	I	Monitor pin
4	NC		Used connecting with VrA
5	NC		Used connecting with VrA
6	VrA	O	Analog VREF
7	Vrfi		Filter capacity for reference
8	VrD	O	Digital VREF, outputs 1/2 of Vdd
9	Vdd	I	Power pin, connect Vdd of servo IC
10	DPAC		DPD AC coupling capacity 1
11	DPBD		DPD AC coupling capacity 2
12	DPD1		DPD integral capacity 1
13	DPD2		DPD integral capacity 2
14	SCB	I	Control line (bit clock)
15	SCL	I	Control line (latch signal)
16	SCD	I	Control line (serial data)
17	VRCK	I	Ref. clock input
18	NC		Used connecting with GND
19	NC		Used connecting with GND
20	VCKF		Capacity for adjusting time constant
21	VccP		Power pin
22	NC		Used in open
23	NC		Used in open
24	NC		Used in open
25	NC		Used connecting with GND
26	RFSW	I	RFO control pin, outputs signal after EQ at L
27	VccS		Power pin
28	NC		Used in open
29	NC		Used connecting with VrA
30	NC		Used connecting with VrA
31	LVL	O	Servo addition output
32	NC		Used in open
33	TEO	O	TE output
34	FEO	O	TE output
35	NC		Used connecting with VrA
36	NC		Used connecting with VrA
37	NC		Used connecting with VrA

Pin No.	Pin Name	I/O	Function
38	NC		Used connecting with VrA
39	NC		Used connecting with VrA
40	DFTN	I	DPD defect, L: DPD out = Mute
41	RPZ	O	RF ripple center output
42	RPO	O	RF ripple output
43	RPB	O	Bottom of RF ripple
44	RPP	O	Peak of RF ripple
45	RFO	O	Equivalent RF output
46	VccR		Power pin (RF)
47	DPDB	I	Pit depth adjustment
48	TEB	I	TE balance
49	FEB	I	FE balance
50	PSC	I	VRCK divide on/off, H: divide off
51	VccO		Power pin
52	Vcc2		Power pin
53	NC		Connect with VrD, or GND via C
54	EQD	I	Group delay correction
55	GND2		GND pin
56	RFDC		DC feedback capacity
57	EQB	I	Boost adjustment
58	EQF	I	Frequency adjustment
59	MDI1	I	Monitor input
60	LDO1	O	Drive output
61	P1TN	I	TE(-) input (DVD)
62	P1TP	I	TE(+) input (DVD)
63	P1FN	I	FE(-) input (DVD)
64	P1FP	I	FE(+) input (DVD)
65	LDP1	I	APC polarity 1, positive when connected to Vcc
66	GNDR		GND pin
67	P1DI	I	D input (DVD)
68	P1CI	I	C input (DVD)
69	P1BI	I	B input (DVD)
70	P1AI	I	A input (DVD)
71	LDP2	I	APC polarity 2, positive when connected to Vcc
72	P2AI	I	A input (CD)
73	P2BI	I	B input (CD)
74	P2CI	I	C input (CD)
75	P2DI	I	D input (CD)
76	GNDS		GND pin
77	P2FP	I	FE(+) input (CD)
78	P2FN	I	FE(-) input (CD)
79	P2TP	I	TE(+) input (CD)
80	P2TN	I	TE(-) input (CD)

HY29F080 (DVD: IC102)

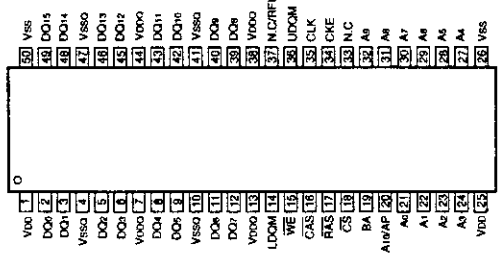


Terminal Function

Pin No.	Pin Name	I/O	Function
1~8 13~24	A[19:0]	I	Address, active High.
25~28 32~35	DQ[7:0]	I/O	Data Bus, active High
9	CE#	I	Chip Enable, active Low.
37	OE#	I	Output Enable, active Low.
38	WE#	I	Write Enable, active Low.
12	RESET#	I	Hardware Reset, active Low.
36	RY/BY#	O	Ready/Busy Status
[illegible]	[illegible]	[illegible]	[illegible]
29, 30	V_{SS}	-	Power and signal ground

16M SDRAM (TSOP)-8 (DVD: IC103, 104)

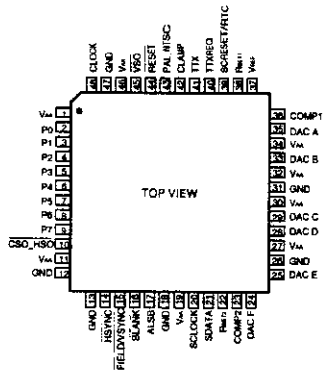
- K4S161622D-TC80
- W981616AH-8



Terminal Function

Pin No.	Pin Name	Symbol	Function
1	V_{DD}	Power Supply/Ground	Power and ground for the input buffer and the core logic
2	DQ_0	Data Input/Output	Data input/output are mutiplexed on the same pin
3	DQ_1	Data Input/Output	Data input/output are mutiplexed on the same pin
4	V_{SSQ}	Data Output Power/Ground	Isolated power supply and ground for the output buffer
5	DQ_2	Data Input/Output	Data input/output are mutiplexed on the same pin
6	DQ_3	Data Input/Output	Data input/output are mutiplexed on the same pin
7	V_{DDQ}	Data Output Power/Ground	Isolated power supply and ground for the output buffer
8	DQ_4	Data Input/Output	Data input/output are mutiplexed on the same pin
9	DQ_5	Data Input/Output	Data input/output are mutiplexed on the same pin
10	V_{SSQ}	Data Output Power/Ground	Isolated power supply and ground for the output buffer
11	DQ_6	Data Input/Output	Data input/output are multiplexed on the same pin
12	DQ_7	Data Input/Output	Data input/output are multiplexed on the same pin
13	V_{DDQ}	Data Output Power/Ground	Isolated power supply and ground for the output buffer
14	L DQM	Data Input/Output Mask	Blocks data input when active
15	$\overline{WE}$	Write Enable	Enables write operation and row precharge
16	$\overline{CAS}$	Column Address Strobe	Latches column address on the positive going edge of the CLK at low
17	$\overline{RAS}$	Row Address Strobe	Latches row address on the positive going edge of the CLK at low
18	$\overline{CS}$	Chip Select	Disables or enables device operation by masking or enabling all inputs except CLK, CKE, and LDQM
19	BA	Bank Select Address	Selects bank to be activated during row address latch time
20	A_{10}/AP	Address	Row/column addresses are multiplexed on the same pin
21	A_0	Address	Row/column addresses are multiplexed on the same pin
22	A_1	Address	Row/column addresses are multiplexed on the same pin
23	A_2	Address	Row/column addresses are multiplexed on the same pin
24	A_3	Address	Row/column addresses are multiplexed on the same pin
25	V_{DD}	Power Supply/Ground	Power and ground for the input buffer and the core logic
26	V_{SS}	Power Supply/Ground	Power and ground for the input buffer and the core logic
27	A_4	Address	Row/column addresses are multiplexed on the same pin
28	A_5	Address	Row/column addresses are multiplexed on the same pin
29	A_6	Address	Row/column addresses are multiplexed on the same pin
30	A_7	Address	Row/column addresses are multiplexed on the same pin
31	A_8	Address	Row/column addresses are multiplexed on the same pin
32	A_9	Address	Row/column addresses are multiplexed on the same pin
33	N. C	No Connection	No connect pin
34	CKE	Clock Enable	Masks system clock to freeze operation from the next clock cycle
35	CLK	System Clock	Active on the positive going edge to sample all inputs
36	U DQM	Data Input/Output Mask	Blocks data input when active
37	N. C/RFU	NC/Reserved	No connect pin
38	V_{DDQ}	Data Output Power/Ground	Isolated power supply and ground for the output buffer
39	DQ_8	Data Input/Output	Data input/output are multiplexed on the same pin
40	DQ_9	Data Input/Output	Data input/output are multiplexed on the same pin
41	V_{SSQ}	Data Output Power/Ground	Isolated power supply and ground for the output buffer
42	DQ_{10}	Data Input/Output	Data input/output are multiplexed on the same pin
43	DQ_{11}	Data Input/Output	Data input/output are multiplexed on the same pin
44	V_{DDQ}	Data Output Power/Ground	Isolated power supply and ground for the output buffer
45	DQ_{12}	Data Input/Output	Data input/output are multiplexed on the same pin
46	DQ_{13}	Data Input/Output	Data input/output are multiplexed on the same pin
47	V_{SSQ}	Data Output Power/Ground	Isolated power supply and ground for the output buffer
48	DQ_{14}	Data Input/Output	Data input/output are multiplexed on the same pin
49	DQ_{15}	Data Input/Output	Data input/output are multiplexed on the same pin
50	V_{SS}	Power Supply/Ground	Power and ground for the input buffer and the core logic

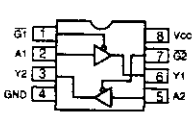
ADV7172KST (DVD: IC701)



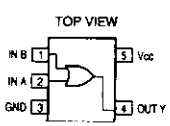
Terminal Function

Pin No.	Pin Name	I/O	Function
2–9	P7-P0	I	8-Bit 4:2:2 Multiplexed YCrCb Pixel Port (P7-P0).
48	CLOCK	I	TTL Clock Input .(27 MHz reference clock)
14	HSYNC	I/O	HSYNC (Modes 1 and 2) Control Signal.
15	FIELD/VSYNC	I/O	Dual Function FIELD (Mode 1) and VSYNC (Mode 2) Control Signal.
16	BLANK	I/O	Video Blanking Control Singal.
39	SCRESET/RTC	I	Subcarrier reset pin, Real-Time Control (RTC) Input.
37	VREF	I/O	Voltage Reference Input for DACs or Voltage Reference Output (1.235V).
38	RSET1	I	Control full-scale amplitudes of the Video Signals from DACs A, B and C.
22	RSET2	I	Control full-scale amplitudes of the Video Signals from DACs D, E and F.
36	COMP1	O	Compensation Pin for DACs A, B and C.
23	COMP2	O	Compensation Pin for DACs D, E and F.
35	DAC A	O	GREEN/Composite/Y Analog Output.
33	DAC B	O	BLUE/S-Video Y/U Analog Output.
29	DAC C	O	RED/S-Video C/V Analog Output.
28	DAC D	O	GREEN/Composite/Y Analog Output.
25	DAC E	O	BLUE/S-Video Y/U Analog Output.
24	DAC F	O	RED/S-Video C/V Analog Output.
20	SCLOCK	I	MPU Port Serial Interface Clock Input.
21	SDATA	I/O	MPU Port Serial Data Input/Output.
42	CLAMP	O	TTL Output Signal to external circuitry.
43	PAL_NTSC	I	Input signal to select PAL or NTSC mode of operation.
45	VSO	O	VSO TTL Output Sync Signal.
10	CSO_HSO	O	Dual function CSO or HSO TTL Output Sync Signal.
17	ALSB	I	TTL Address Input.
44	RESET	I	On-chip timing generator reset pin.
41	TTX	I	Teletest Data Input Pin.
40	TTXREQ	O	Teletest Data Request output signal.
46	VAA	P	Power Supply (+3 V to +5 V).
12, 13, 18, 26, 31, 47	GND	G	Ground Pin.

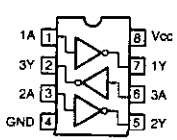
TC7WT125FU (DVD: IC114, 115)



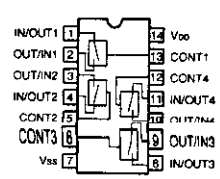
NC7ST32M5X (DVD: IC110)



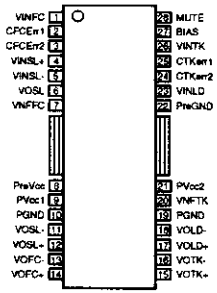
TC7WU04F (DVD: IC111)



74VHC4066MTC (DVD: IC506)



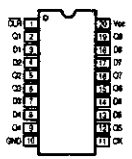
BA5952AFP (DVD: IC504)



Terminal Function

Pin No.	Name	Function	Pin No.	Name	Function
1	VINFC	Focus driver input	15	VOTK+	Tracking driver output(+)
2	CFCerr1	Cap.connecting pin for error amp filter	16	VOTK-	Tracking driver output(-)
3	CFCerr2	Cap.connecting pin for error amp filter	17	VOLD+	Loading driver output(+)
4	VINSL+	Op.amp input (+) for sled driver	18	VOLD-	Loading driver output(-)
5	VINSL-	Op.amp input (-) for sled driver	19	PGND	Power GND
6	VOSL	Op.amp output for sled driver	20	VNFTK	Tracking driver feedback pin
7	VNFFC	Focus driver feedback pin	21	PVcc1	Power GND
8	PreVcc	Pre Vcc	22	PreGND	Pre GND
9	PVcc1	Power Vcc of sled driver	23	VINLD	Loading driver input
10	PGND	Power GND of sled driver	24	CTKerr2	Cap.connecting pin for error amp filter
11	VOSL-	Sled driver output(-)	25	CTKerr1	Cap.connecting pin for error amp filter
12	VOSL+	Sled driver output(+)	26	VINTK	Tracking driver input
13	VOFC-	Focus driver output(-)	27	BIAS	Bias input
14	VOFC+	Focus driver output(+)	28	MUTE	Mute control pin

SN74AHCT273PW (DVD: IC105)

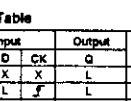


Truth Table

Input			Output	Function
CLR	D	CK	Q	
L	X	X	L	Clear
H	L	↑	L	—
H	H	↑	H	—
H	X	↓	Qn	No change

X: Don't Care

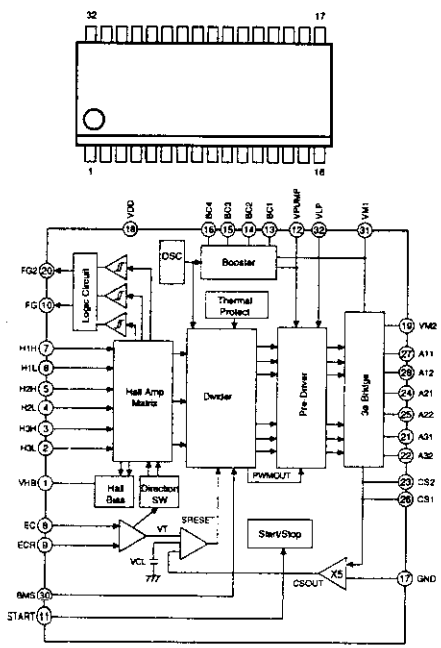
S-24C01A (DVD: IC108)



Terminal Function

Pin No.	Name	Function
1	A0	Address input
2	A1	Address input
3	A2	Address input
4	GND	GND
5	SDA	Serial data input/output
6	SCL	Serial clock input
7	TEST/WP	Test, connect to GND
8	Vcc	Power supply

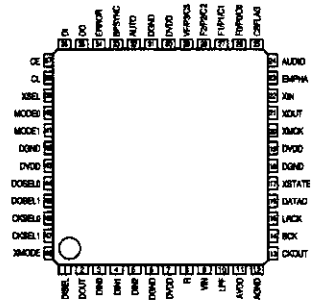
AN8471SA (DVD: IC503)



Terminal Function

Pin No.	Pin Name	Function
1	VHB	Hall bias pin
2	H3L	Hall element 3 input (-)
3	H3H	Hall element 3 input (+)
4	H2L	Hall element 2 input (-)
5	H2H	Hall element 2 input (+)
6	H1L	Hall element 1 input (-)
7	H1H	Hall element 1 input (+)
8	EC	Torque command input pin
9	ECR	Torque command ref. input pin
10	FG1	FG signal out put pin (0.C)
11	START	Start/Stop switching pin
12	VPUMP	Booster pin
13	BC1	Booster cap. connecting pin 1
14	BC2	Torque command input pin 2
15	BC3	Torque command input pin 3
16	BC4	Torque command input pin 4
17	GND	GND pin
18	Vdd	Power pin
19	VM2	Motor power pin 2
20	FG2	3x FG signal output pin (0.C)
21	A31	Drive output 3
22	A32	Drive output 3
23	CS2	Current detect pin 2
24	A21	Drive output 2
25	A22	Drive output 2
26	CS1	Current detect pin 1
27	A11	Drive output 1
28	A12	Drive output 1
29	NC	N.C.
30	BMS	Brake mode switching pin
31	VM1	Motor power pin 1
32	VLP	Pre-driver lower power

LC89055W (DS: IC107)

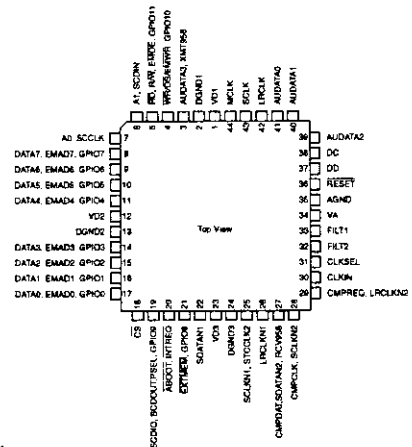


LC89055W Terminal Function

Pin No.	Pin Name	I/O	Function
1	DISEL	I	Data input terminal (select input pin of DIN0, DIN1)
2	DOUT	O	Input bi-phase data through output terminal
3	DIN0	I	Amp built-in coaxial/optical input correspond data input terminal
4	DIN1	I	Amp built-in coaxial/optical input correspond data input terminal
5	DIN2	I	Optical input correspond data input terminal
6	DGND		Digital GND
7	DVDD		Digital power supply
8	R	I	VCO gain control input terminal
9	VIN	I	VCO free-run frequency setting input terminal
10	LPF	O	PLL loop filter setting terminal
11	AVDD		Analog power supply
12	AGND		Analog GND
13	CKOUT	O	Clock output terminal (256fs, 384fs, 512fs, X'tal osc., VCO free-run osc.)
14	BCK	O	64fs clock output terminal
15	LRCK	O	fs clock output terminal (L: Rch, H: Lch, FS: Reverse)
16	DATAO	O	Data output terminal
17	XSTATE	O	Input data detecting result output terminal
18	DGND		Digital GND
19	DVDD		Digital power supply
20	XMCK	O	X'tal osc. clock output terminal (24.576MHz or 12.288MHz)
21	XOUT	O	X'tal osc. connection output terminal
22	XIN	I	X'tal osc. connection input terminal, external signal input possible (24.576MHz or 12.288MHz)
23	EMPHA	O	Emphasis information output terminal of channel status
24	AUDIO	O	Bit1 output terminal of channel status
25	CSFLAG	O	Top 40bit revise flag output terminal of channel status
26	F0/P0/C0	O	Input fs cal. sig. out/data type out/input word inf. output terminal
27	F1/P1/C1	O	Input fs cal. sig. out/data type out/input word inf. output terminal
28	F2/P2/C2	O	Input fs cal. sig. out/data type out/input word inf. output terminal
29	VF/P3/C3	O	Validity flag out/data type out/input word inf. output terminal
30	DVDD		Digital power supply
31	DGND		Digital GND
32	AUTO	O	Non PCM burst data transfer detect sig. output terminal
33	BPSYNC	O	Non PCM burst data preamble Pa, Pb, Pc, Pd sync sig. output terminal
34	ERROR	O	PLL lock error, data error flag output terminal
35	DO	O	CPU/IFD read data output terminal
36	DI	I	CPU I/F write data input terminal
37	CE	I	CPU I/F chip enable input terminal
38	CL	I	CPU I/F chip enable input terminal
39	XSEL	I	Frequency select input pin of XIN X'tal osc. (24.576MHz or 12.288MHz)
40	MODE0	I	Mode setting input terminal
41	MODE1	I	Mode setting input terminal
42	DGND		Digital GND
43	DVDD		Digital power supply
44	DOSEL0	I	Data output format select input terminal
45	DOSEL1	I	Data output format select input terminal
46	CKSEL0	I	Output clock select input terminal
47	CKSEL1	I	Output clock select input terminal
48	XMODE	I	Reset input terminal

* For latch-up countermeasure, set digital (DVDD) and analog (AVDD) power on/off in the same timing.

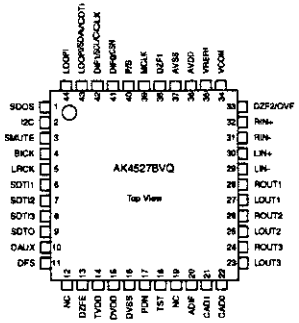
CS493292-CL (DS: IC109)



CS493292-CL Terminal Funtion

Pin No.	Port Name	Function
1,12,23	VD1,2,3	Digital power supply (+)
2,13,24	DGND1,2,3	Digital GND
3	AUDATA3, XMT958	SPDIF transmitter output, Digital audio output 3
4	WR, DS, EMWR, GPIO10	Host write strobe, Host data strobe, External memory write enable, General purpose in/output 10
5	RD, R/W, EMOE,GPIO11	Host parallel output enable, Host parallel R/W, External memory output enable, General purpose in/output 11
6	A1,SCDIN	Host address bit 1, SPI serial control data input
7	A0,SCCLK	Host parallel address bit 0, Serial control port clock
8	DATA7, EMAD7, GPIO7	Bidirectional data bus 7, External memory address 7, General purpose in/output 7
9	DATA6, EMAD6, GPIO6	Bidirectional data bus 6, External memory address 6, General purpose in/output 6
10	DATA5, EMAD5, GPIO5	Bidirectional data bus 5, External memory address 5, General purpose in/output 5
11	DATA4, EMAD4, GPIO4	Bidirectional data bus 4, External memory address 4, General purpose in/output 4
14	DATA3, EMAD3, GPIO3	Bidirectional data bus 3, External memory address 3, General purpose in/output 3
15	DATA2, EMAD2, GPIO2	Bidirectional data bus 2, External memory address 2, General purpose in/output 2
16	DATA1, EMAD1, GPIO1	Bidirectional data bus 1, External memory address 1, General purpose in/output 1
17	DATA0, EMAD0, GPIO0	Bidirectional data bus 0, External memory address 0, General purpose in/output 0
18	CS	Host parallel chip select, Host serial SPI chip select
19	SCDIO, SCDOUT, PSEL,GPIO9	Serial control port data in/output, Parallel port type select, General purpose in/output 9
20	INTREQ, ABOOT	Control port interrupt request, Automatic boot enable
21	EXTMEM, GPIO8	External memory chip select, General purpose in/output 8
22	SDATAN1	PCM audio data input 1
25	SCLKN1, STCCLK2	PCM audio input bit clock
26	LRCLKN1	PCM audio input sample rate clock
27	CMPDAT, SDATAN2	PCM audio data input 2
28	CMPCLK, SCLKN2	PCM audio input bit clock
29	CMPREQ, LRCLKN2	PCM audio input sample rate clock
30	CLKIN	Master clock input
31	CLKSEL	DSP clock select
32	FILT2	PLL filter
33	FILT1	PLL filter
34	VA	Analog power supply (+)
35	AGND	Analog GND
36	RESET	Master reset input
37	DD	Reserved
38	DC	Reserved
39	AUDATA2	Digital audio output 2
40	AUDATA1	Digital audio output 1
41	AUDATA0	Digital audio output 0
42	LRCLK	Audio output sample rate clock
43	SCLK	Audio output bit clock
44	MCLK	Audio master clock

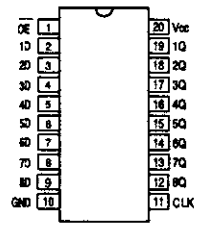
AK4527BVQ (DS: IC108)



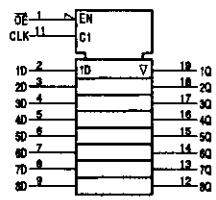
AK4527BVQ Terminal Funtion

Pin No.	Port Name	I/O	Function
1	SDOS	I	SDTO source select pin, L: Internal ADC output, H: DAUX input
2	I2C	I	Serial control mode select pin, L: 3-core serial, H: I²C bus
3	SMUTE	I	Soft mute pin, H: Soft mute start, L: Release
4	BICK	I	Audio serial data clock pin
5	LRCK	I	Input channel clock pin
6	SDTI1	I	DAC1 audio serial data input pin
7	SDTI2	I	DAC2 audio serial data input pin
8	SDTI3	I	DAC3 audio serial data input pin
9	SDTO	O	Audio serial data output pin
10	DAUX	I	Auxiliary audio serial data input pin
11	DFS	I	Double speed sampling mode pin, L: Normal, H: Double
12	NC	—	No connection
13	DZFE	I	Zero input detect function activate pin, L: Mode 7 at parallel, H: Mode 0
14	TVDD	—	Power pin for output buffer, 2.7V–5.5V
15	DVDD	—	Digital power pin, 4.5V–5.5V
16	DVss	—	Digital GND pin, 0V
17	PDN	I	Power down & reset pin, L: Powered-down and register initialized, Reset with PDN when switching CAD0-1
18	TST	I	Test pin, connect to DVSS
19	NC	—	No connection
20	ADIF	I	Analog input type select pin, H: Differential, L: Single-end
21	CAD1	I	Chip address-1 pin
22	CAD0	I	Chip address-0 pin
23	LOUT3	O	DAC3L channel analog out pin
24	ROUT3	O	DAC3R channel analog out pin
25	LOUT2	O	DAC2L channel analog out pin
26	ROUT2	O	DAC2R channel analog out pin
27	LOUT1	O	DAC1L channel analog out pin
28	ROUT1	O	DAC1R channel analog out pin
29	LIN-	I	L-ch analog inverted input pin
30	LIN+	I	L-ch analog non-inverted input pin
31	RIN-	I	R-ch analog inverted input pin
32	RIN+	I	R-ch analog non-inverted input pin
33	DZF2/OVF	O	0 input detect 2 pin, H: Input data of G2 is 8192 times "0" in a raw or RSTN bit "0", L: When P/S= "0" /Analog input overflow detect pin
34	VCOM	O	Common V-out pin, AVDD/2, connect large capacitor to avoid noise
35	VREFH	I	Ref. V input pin, AVDD
36	AVDD	—	Analog GND pin, 4.5V–5.5V
37	AVss	—	Analog GND pin, 0V
38	DZF1	O	0 input detect pin, H: Input data of G1 is 8192 times "0" in a raw or RSTN bit "0", L: When P/S= "0"
39	MCLK	I	Master clock input pin
40	P/S	I	Parallel/Serial select pin, L: Serial control
41	DIF0	I	Audio data I/F format 0 pin (parallel control)
	CSN	I	Chip select pin (3-wire serial control), connect to DVDD when I²C bus control
42	DIF1	I	Audio data I/F format 1 pin (parallel control)
	SCL/CCLK	I	Control data clock pin (serial control), I²C="L": CCLK (3-wire serial), I²C="H": SCL (I²C bus)
43	LOOP0	I	Loop back mode 0 pin (parallel control), effects digital loop back ADC to all DAC
	SDA/CDTI	I/O	Control data input pin (serial control), I²C="L": CCTI (3-wire serial), I2C="H" SDA (I²C bus)
44	LOOP1	I	Loop back mode 1 pin, from SDTI to all DAC

SN74LV574APW (DS: IC103)
SN74LVC574APW (DS: IC104)



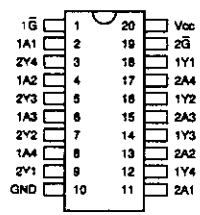
logic symbol



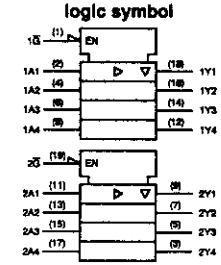
Function Table (each flip-flop)

INPUTS			OUTPUT
$\overline{OE}$	CLK	D	Q
L	↑	H	H
L	↑	L	L
L	H or L	X	Q0
H	X	X	Z

SN74LV244APW (DS: IC105)
SN74LVC244APW (DS: IC112)
SN74HCT244APW (DS: IC106, 113)



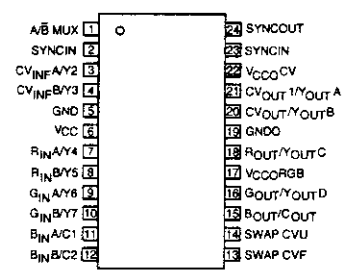
logic symbol

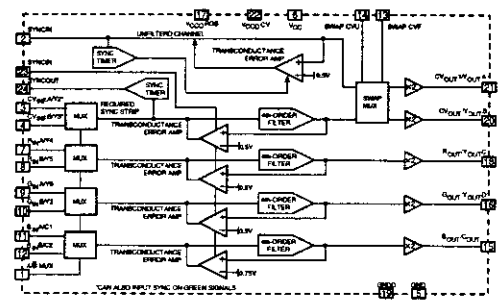


Function Table

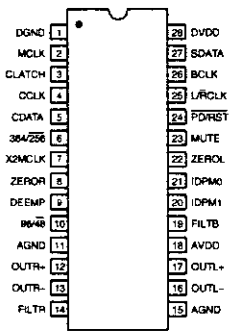
INPUTS		OUTPUT
$\overline{G}$	A	Y
L	H	H
L	L	L
H	X	Z

ML6427 (D/V: IC310, 311)





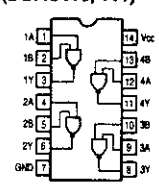
AD1854 (DS: IC401)



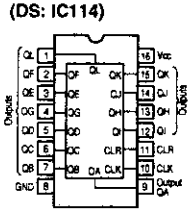
Terminal Function

Pin No.	Pin Name	I/O	Function
1	DGND	I	Digital Ground.
2	MCLK	I	Master Clock Input.
3	CLATCH	I	Latch input for control data.
4	CCLK	I	Control clock input for control data.
5	CDATA	I	Serial control input.
6	384/256	I	Selects the master clock mode.
7	X2MCLK	I	Selects internal clock doubler (LO) or internal clock=MCLK (HI).
8	ZEROR	O	Right Channel Zero Flag Output.
9	DEEMP	I	De-Emphasis.
10	96/48	I	Selects 48 kHz (LO) or 96 kHz Sample Frequency Control.
11,15	AGND	I	Analog Ground.
12	OUTR+	O	Right Channel Positive line level analog output.
13	OUTR-	O	Right Channel Negative line level analog output.
14	FILTR	O	Voltage Reference Filter Capacitor Connection.
16	OUTL-	O	Left Channel Negative line level analog output.
17	OUTL+	O	Left Channel Positive line level analog output.
18	AVDD	I	Analog Power supply.
19	FILTB	O	Filter Capacitor connection.
20	IDPM1	I	Input serial data port mode control one.
21	IDPM0	I	Input serial data port mode control zero.
22	ZEROL	O	Left Channel Zero Flag output.
23	MUTE	I	Mute. Assert HI to mute both stereo analog outputs.
24	PD/RST	I	Power-Down/Reset.
25	L/RCLK	I	Left/Right clock input for input data.
26	BCLK	I	Bit clock input for input data.
27	SDATA	I	Serial input.
28	DVDD	I	Digital Power Supply.

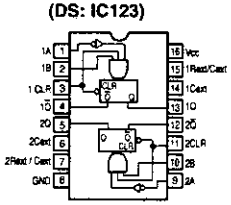
SN74LV00APW (DS: IC110, 111)



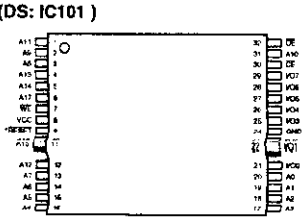
SN74LV4040APW (DS: IC114)



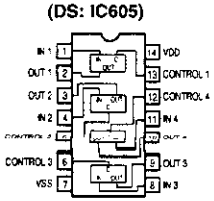
TC74VHC123AFT (DS: IC123)



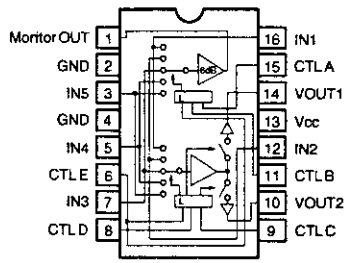
AT49LV002-70TC (DS: IC101)



LC4966 (DS: IC605)



BA7625 (D/V: IC 302, 303)
BA7626 (D/V: IC 301)



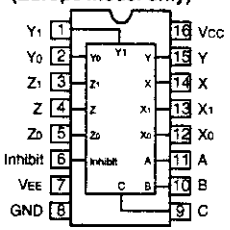
A	B	E	MONITOR OUT
L	L	*	IN 1
H	L	*	IN 2
L	H	*	IN 3
H	H	L	IN 4
H	H	H	IN 5

C	D	E	V OUT 1
L	L	*	—
H	L	*	IN 2
L	H	*	IN 3
H	H	L	IN 4
H	H	H	IN 5

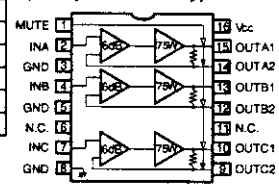
C	D	E	V OUT 2
L	L	*	IN 1
H	L	*	—
L	H	*	IN 3
H	H	L	IN 4
H	H	H	IN 5

Note 1: *mark means that feasible for either H or L.
Note 2: Each input terminal is porvided with sink chip clamp (BA7625).
Each input terminal takes 20kohm at the end (BA7626).

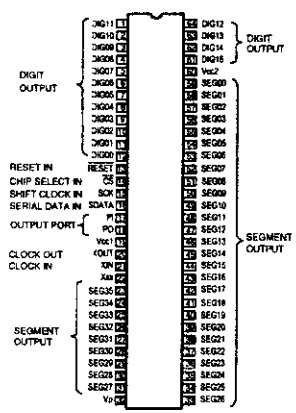
NJU4053B V (D/V: IC308) (Europe model only)

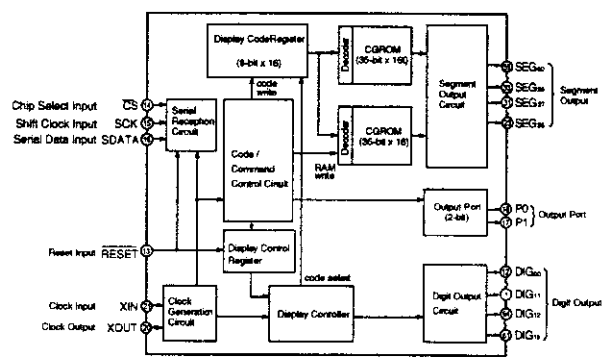


BA7660FS (D/V: IC402, 403) (Europe model only)

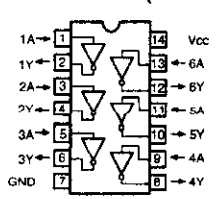


M66005FP (D/V: IC701)

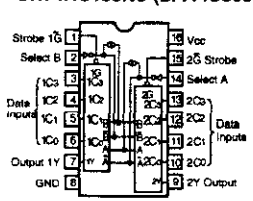




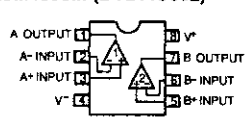
TC74HCU04AF (D/V: IC304)



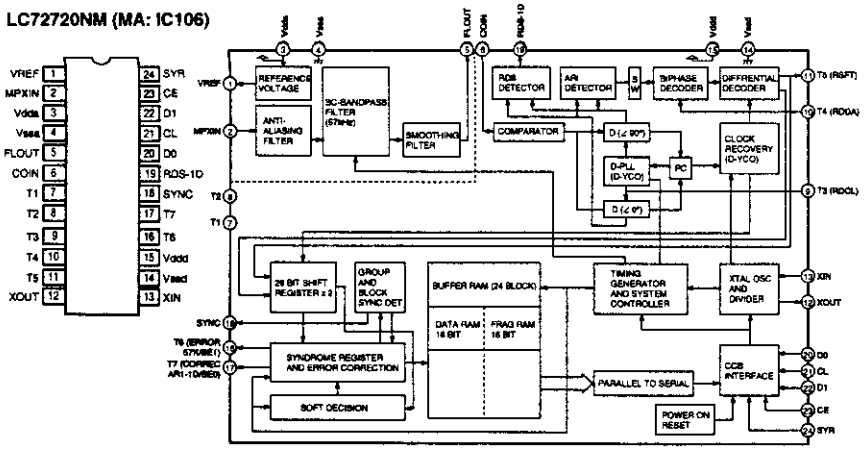
SN74HC153NS (D/V: IC305)



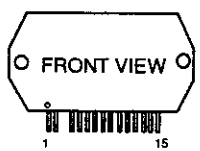
BA4510F (DS: IC118, 119)
BA15218F (DS: IC115~117, 402, 601~603) (MA: IC503, 504, 606~609)
NJM4558M (DVD: IC502)

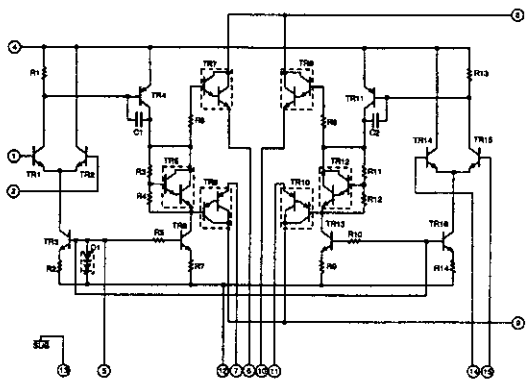


LC72720NM (MA: IC106)

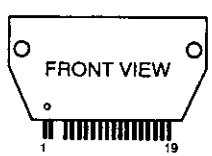


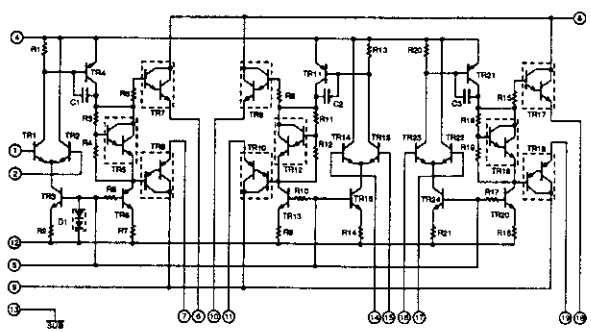
STK402-050 (MA: IC701)



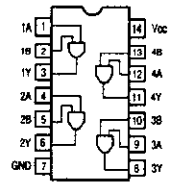


STK402-250 (MA: IC702)

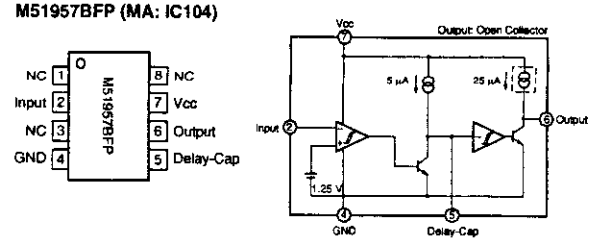




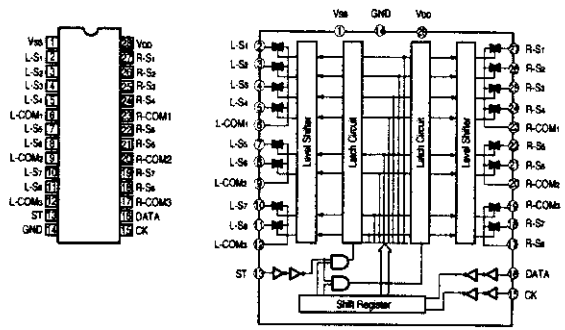
TC74HC32AF (MA: IC102)



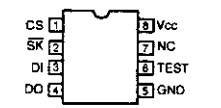
M51957BFP (MA: IC104)



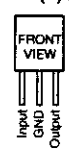
TC9164AN (MA: IC501)



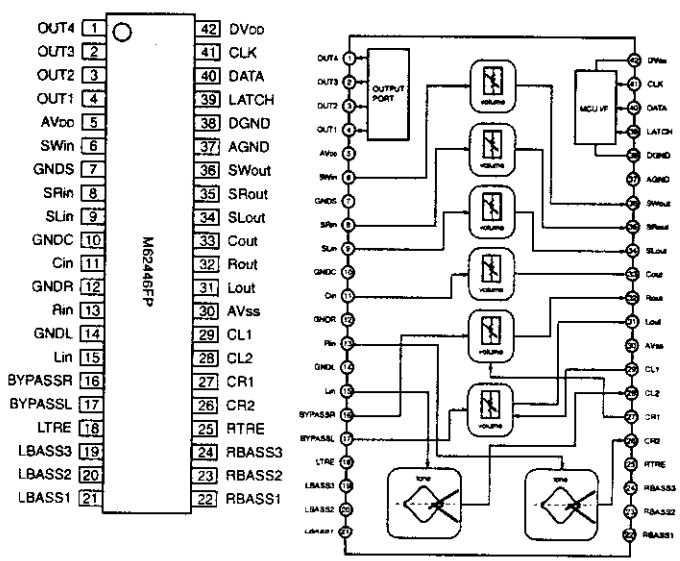
S29590A (MA: IC103)



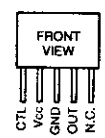
BA05T (MA: IC902,903) (D/V: IC910) NJM7812FA(S) (MA: IC908)



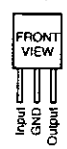
M62446FP (DS: IC604)



BA05ST (MA: IC904,905) BA12ST (MA: IC907)

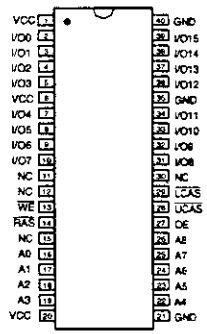


NJM7912FA (MA: IC909)



4M DRAM (SOJ)-35 (DVD: IC507,509)

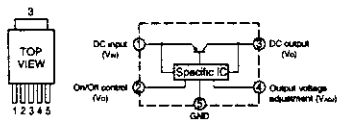
- IS41C16256
- M11B416256A



Terminal Function

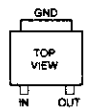
Name	Function
A0-A8	Address Inputs
I/O0-15	Data Inputs/Outputs
WE	Write Enable
OE	Output Enable
RAS	Row Address Strobe
UCAS	Upper Column Address Strobe
LCAS	Lower Column Address Strobe
Vcc	Power
GND	Ground
NC	No Connection

PQ070XZ01Z (DVD: IC112)



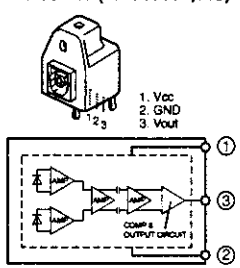
BA033FP (DVD: IC113,512)

MJM7805DL1A (DS: IC120)
NJM2391DL1-25 (DS: IC121)
NJM2391DL1-33 (DS: IC122)

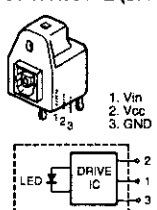


● OPTICAL

INPUT
GP1FA551RZ (D/V: IC307,312)

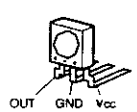


OUTPUT
GP1FA551TZ (D/V: IC306)



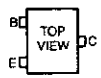
● REMOTE CONTROL SENSOR

RPM6938-V4 (D/V: IC702)

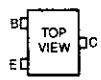


● TRANSISTORS

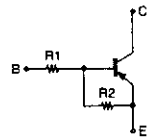
2SA1037K
2SB709A
2SC2412K
2SD601A
KTC2875B



DTA114EK
DTA144TK
DTC114EK
DTC114YK
DTC143TK
DTC144EK
DTC323TK

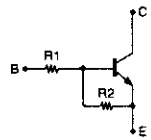


DTA Series



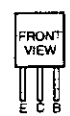
	R1	R2
DTA114EK	10kohm /Ω	10kohm /Ω
DTA114ES	10kohm /Ω	10kohm /Ω
DTA114TK	47kohm /Ω	–

DTC Series

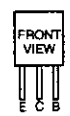


	R1	R2
DTC114EK	10kohm /Ω	10kohm /Ω
DTC114YK	10kohm /Ω	47kohm /Ω
DTC143TK	4.7kohm/Ω	–
DTC323TK	2.2kohm/Ω	–
DTC144EK	47kohm /Ω	47kohm /Ω

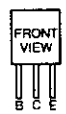
2SA1015
2SB562
2SC1740S
2SC2878
2SD1858
KTC2874B



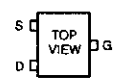
DTA114ES



KTA1659A

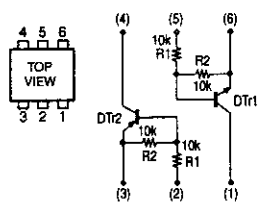


2SK771



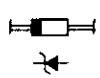
2SB1260

IMD3A

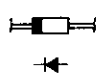


● DIODES (LED included)

MTZJ5.1A
MTZJ5.6A
MTZJ7.5A
MTZJ8.2A

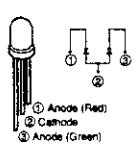


1SS270A
1SR35-400A

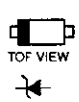


1SS355

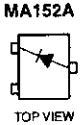
SPR-54MVW



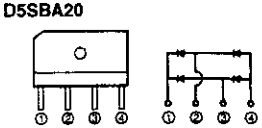
UDZS5.1B



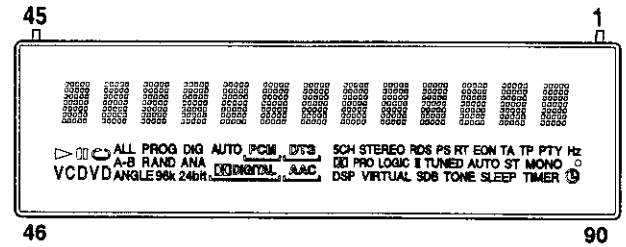
MA152A



D3SBA60
D5SBA20



● FL DISPLAY 15ST36GN (D/V: FL701)



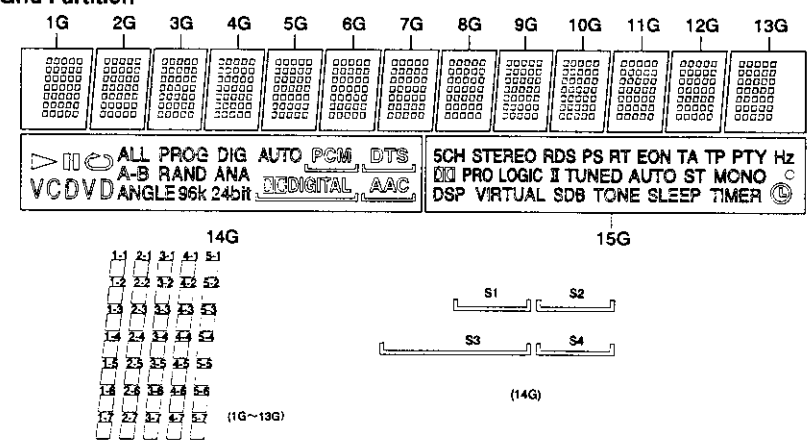
Pin Assignment

Pin No,	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Connection	F2	F2	NP	NP	1	1	2	3	4	5	6	7	8	9	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NP	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	NP	NP	F1	F1

Pin No,	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46
Connection	F2	F2	NP	NP	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	NP	NP	F1	F1

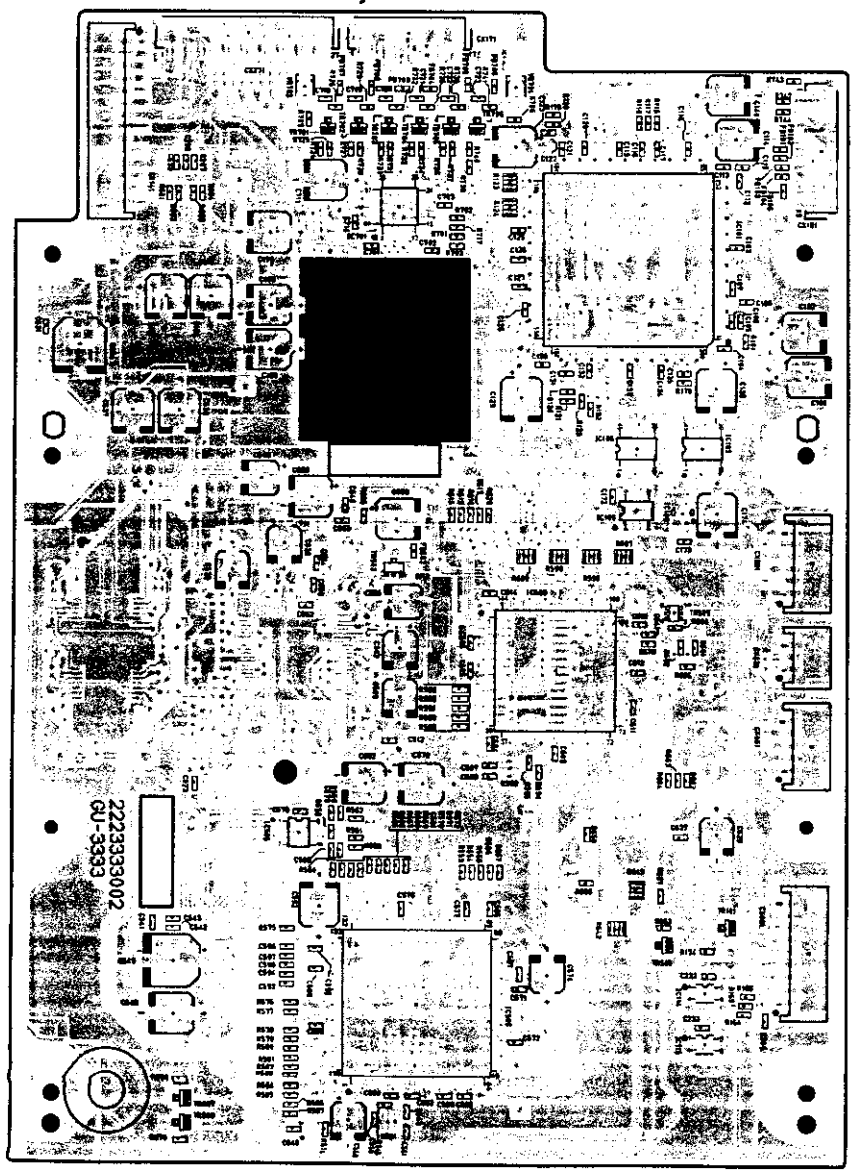
Note: 1. Fn: Filament
2. nG: Grid
3. Pn: Anode
4. NP: No Pin
5. NX: No Connection

Grid Partition

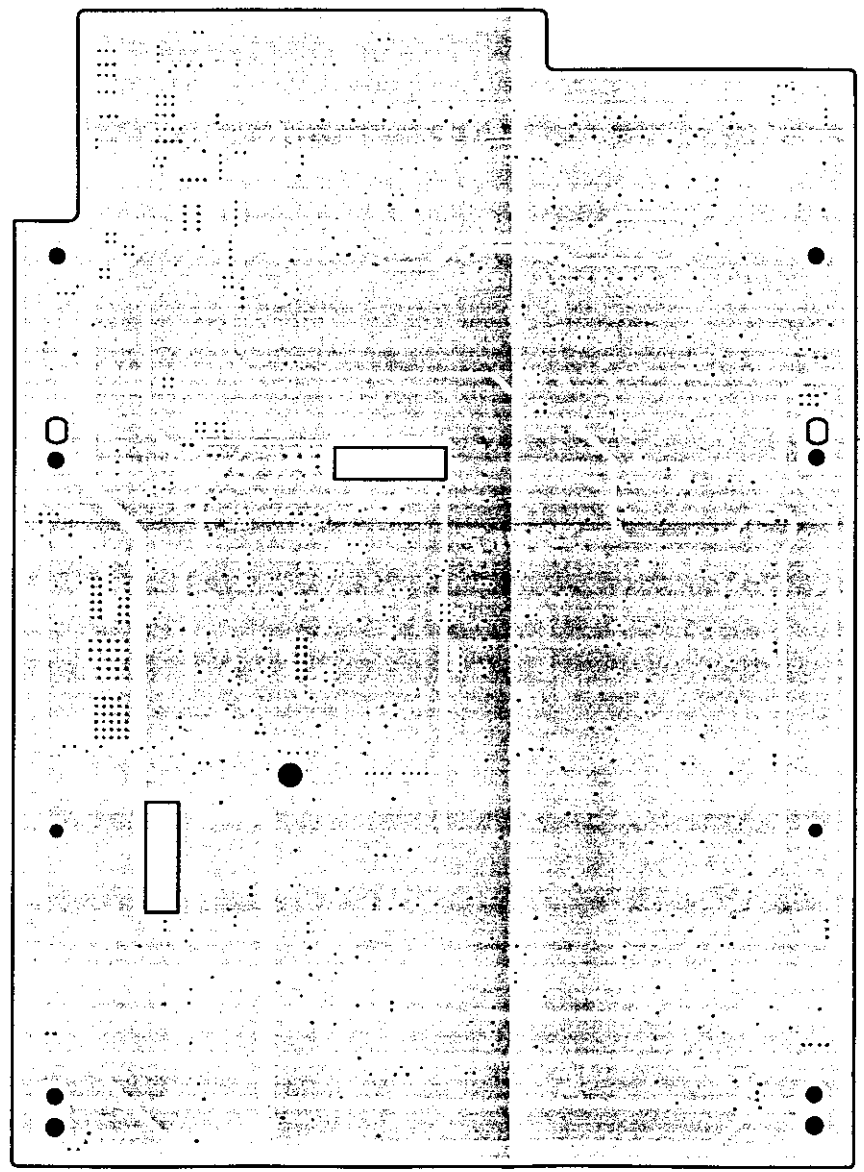


PRINTED WIRING BOARDS

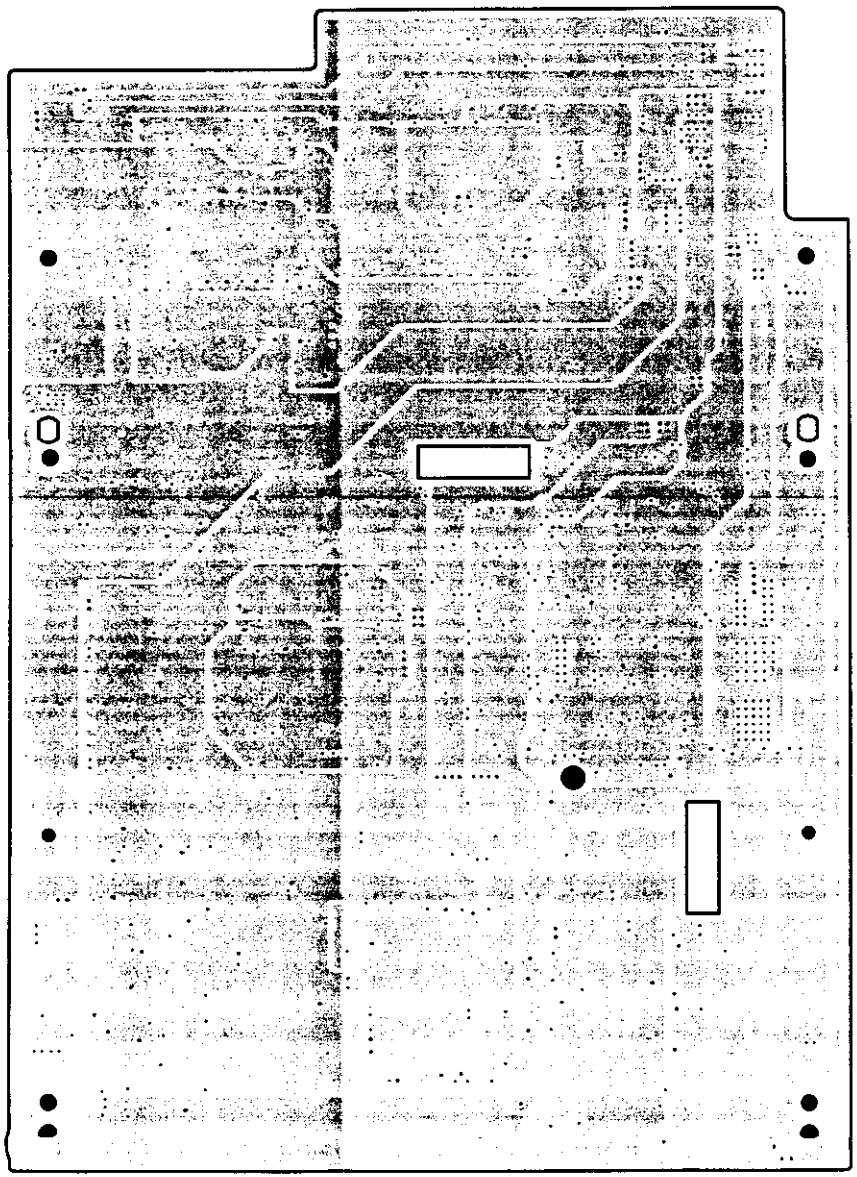
GU-3333 DVD MAIN P.W.B. Ass'y



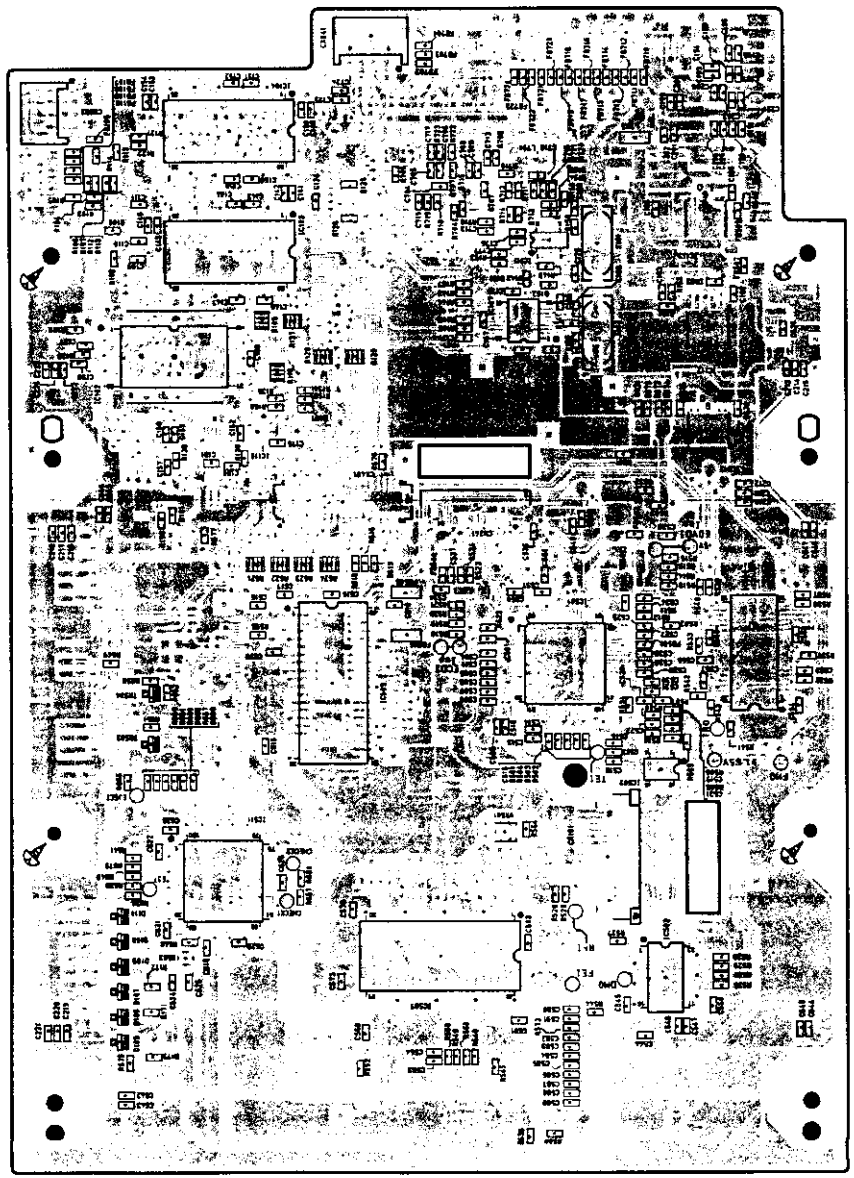
COMPONENT SIDE



INTERNAL LAYER

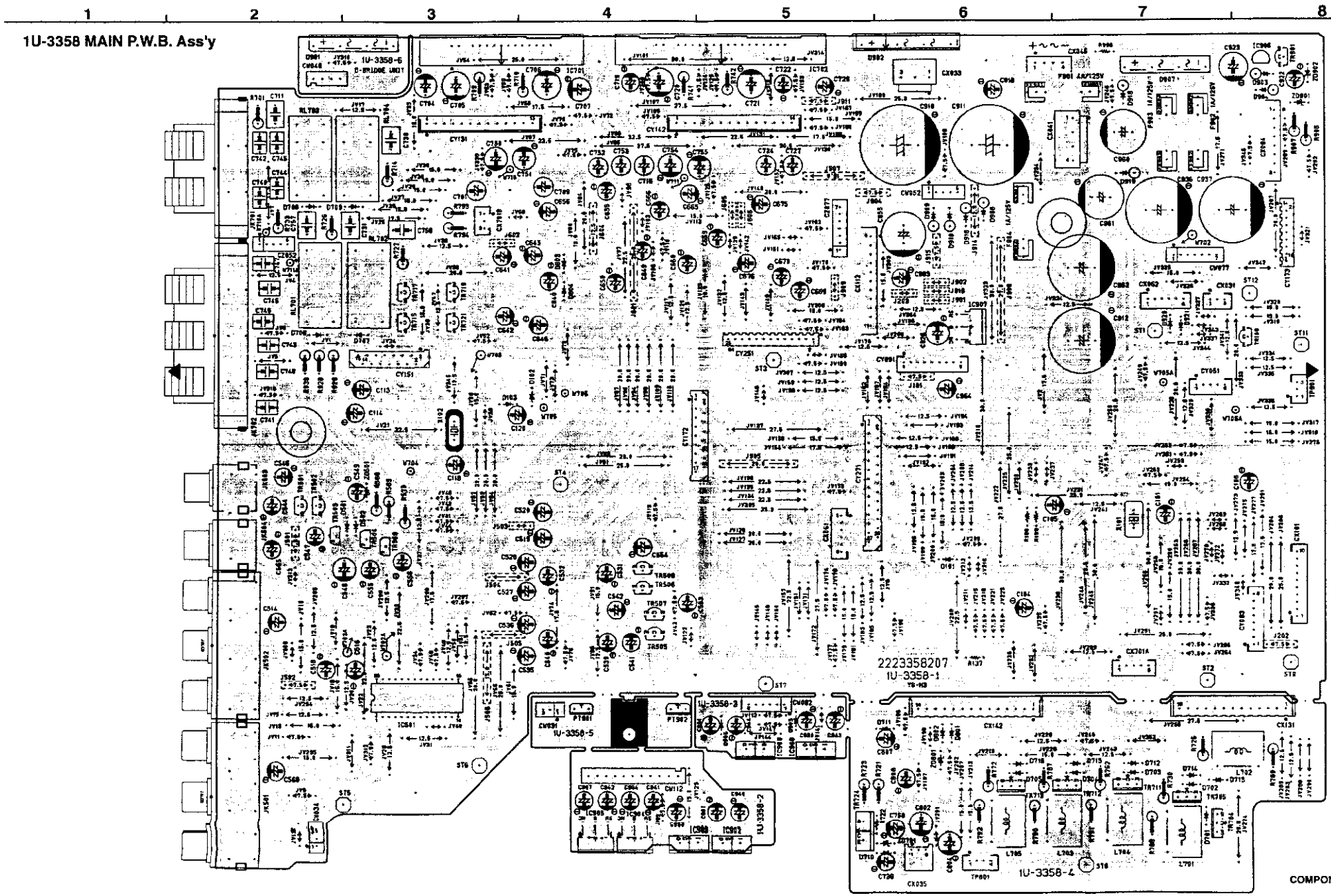


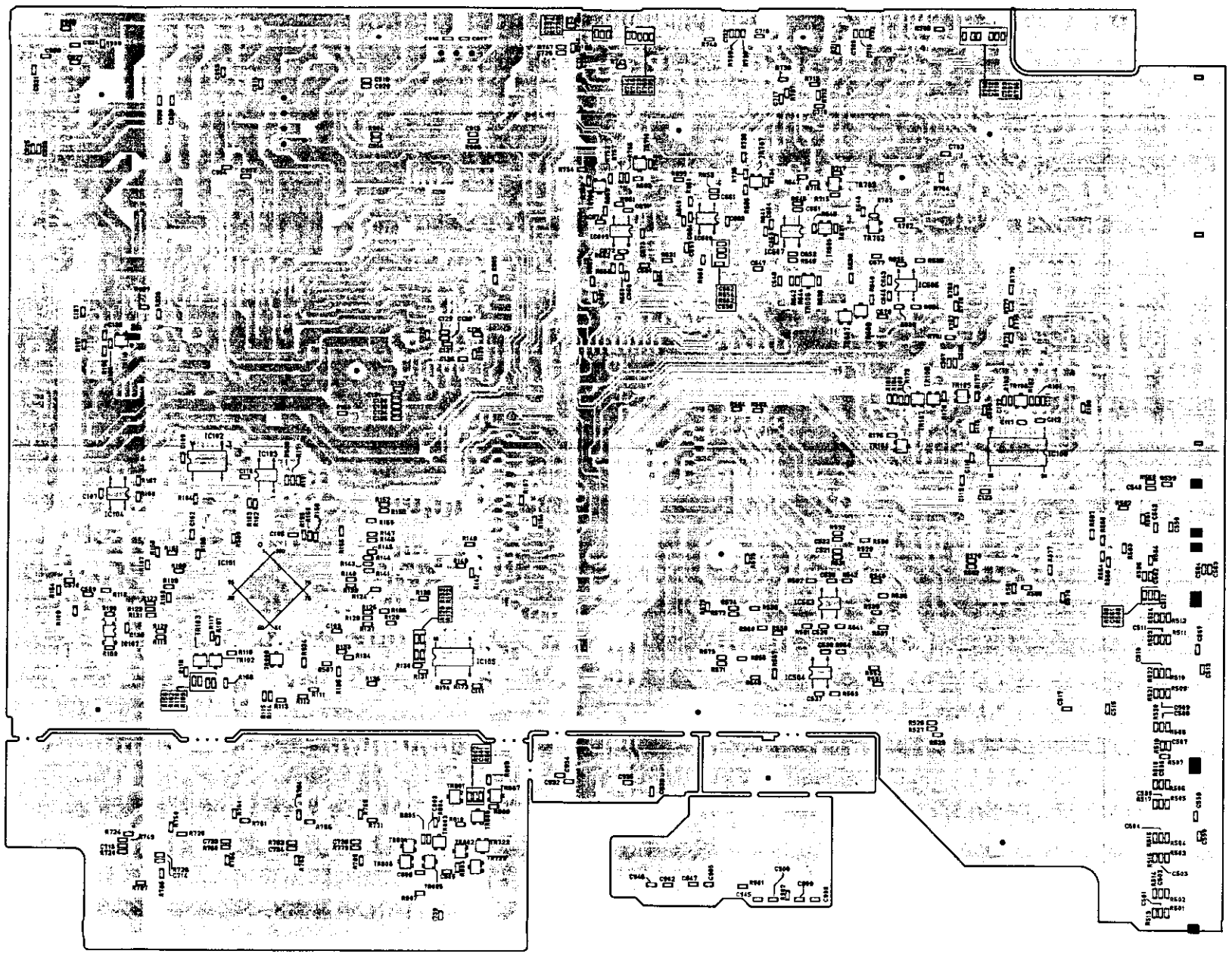
INTERNAL LAYER



FOIL SIDE

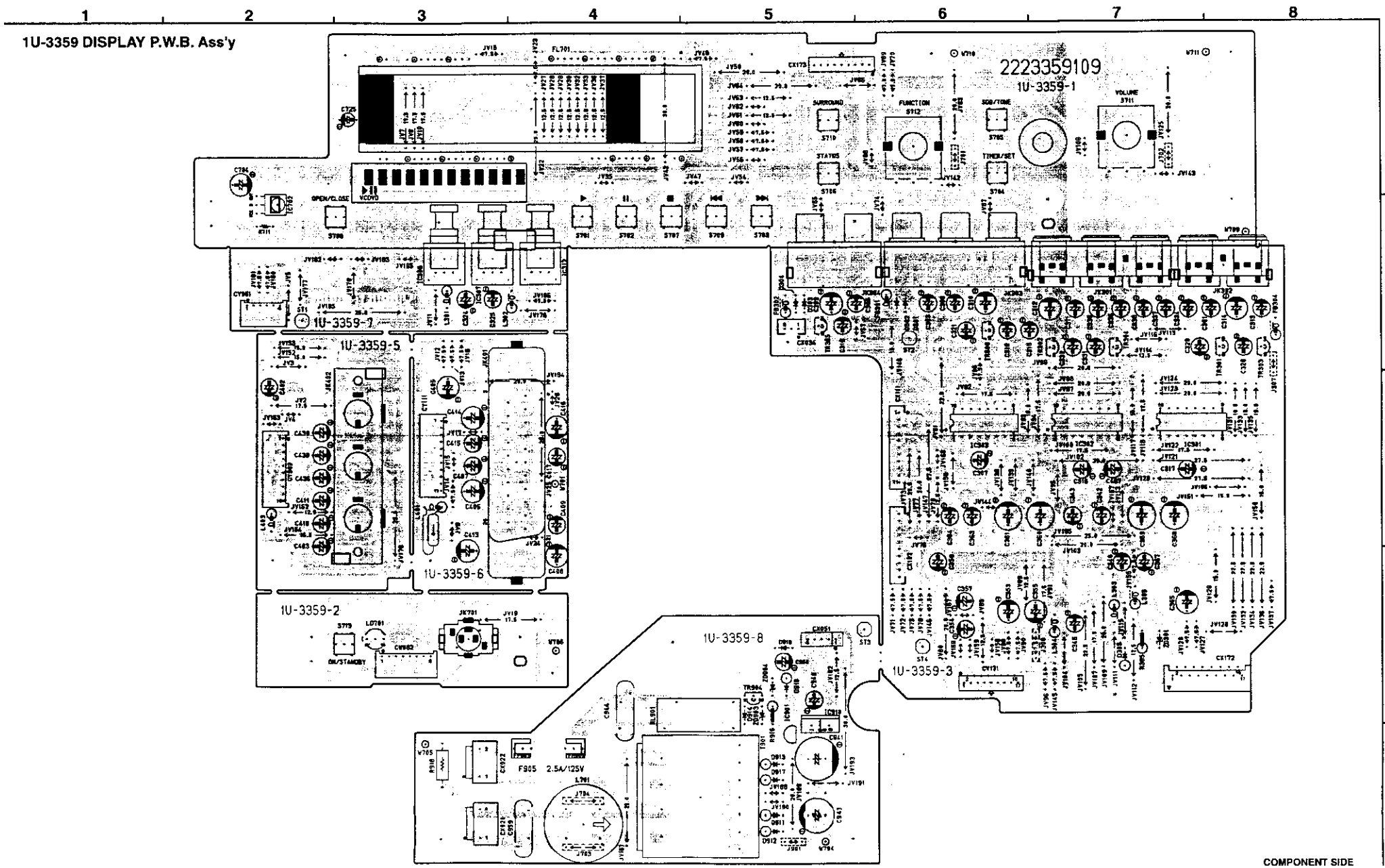
1U-3358 MAIN P.W.B. Ass'y



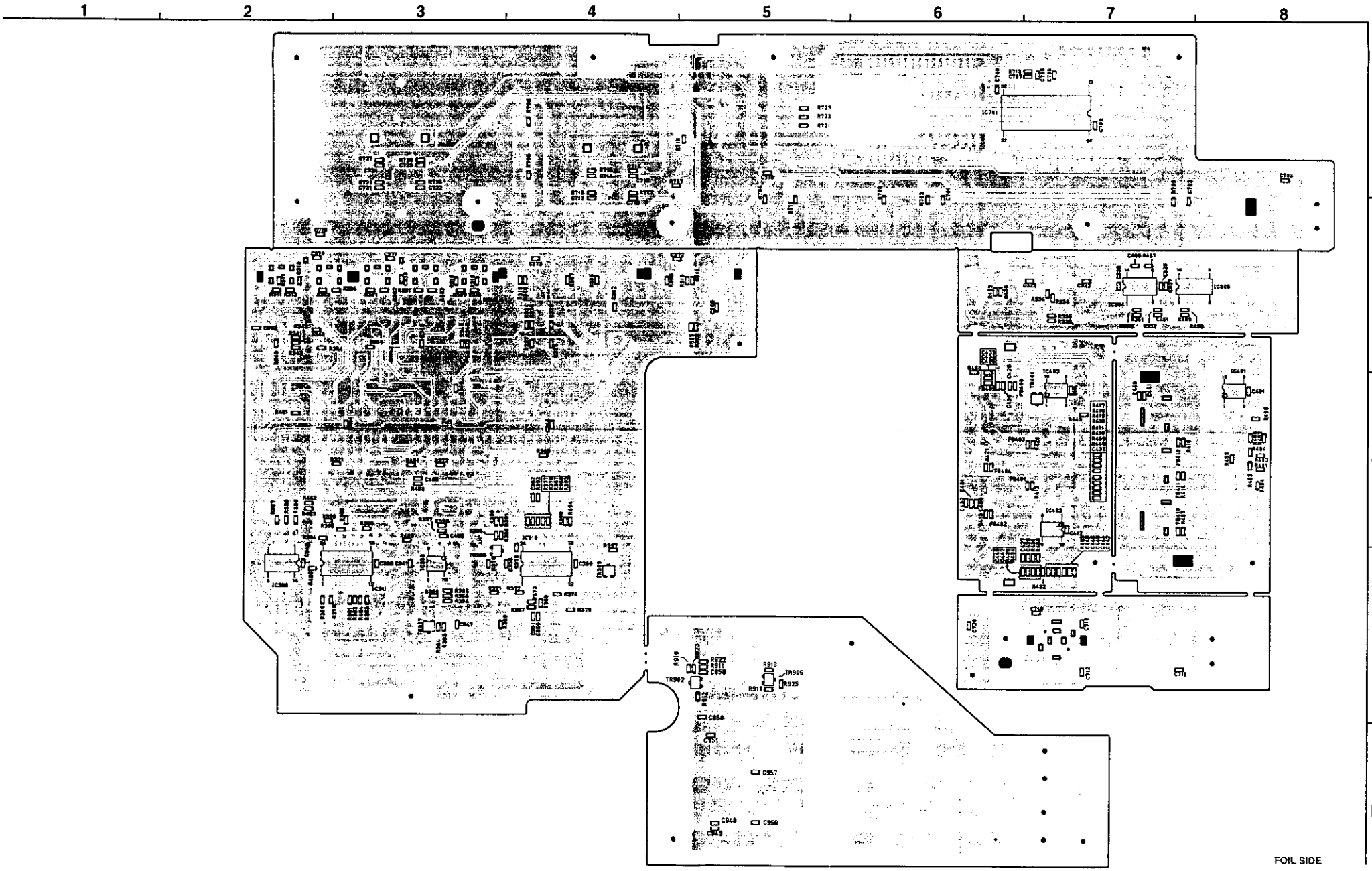


FOILSIDE

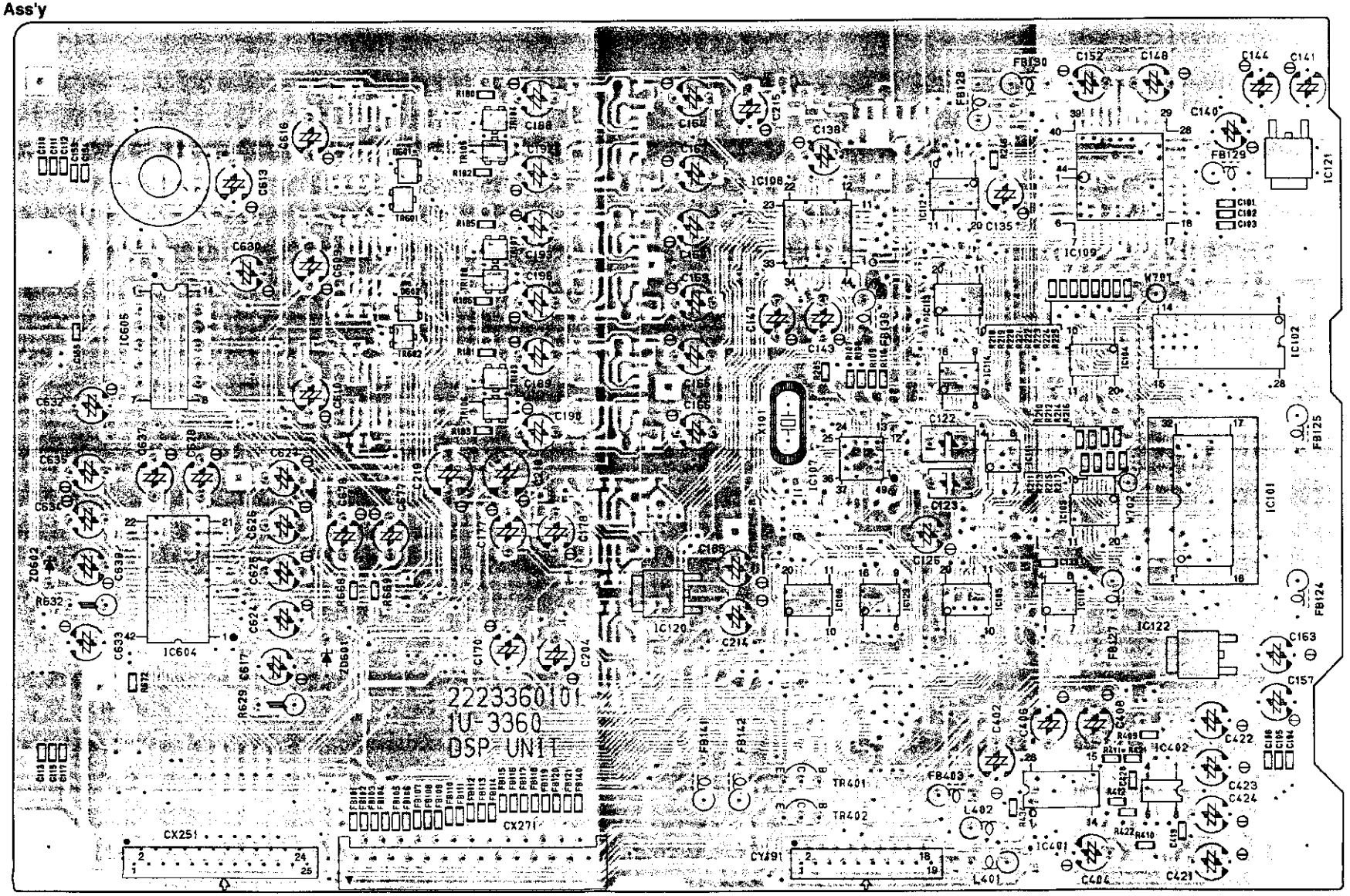
1U-3359 DISPLAY P.W.B. Ass'y

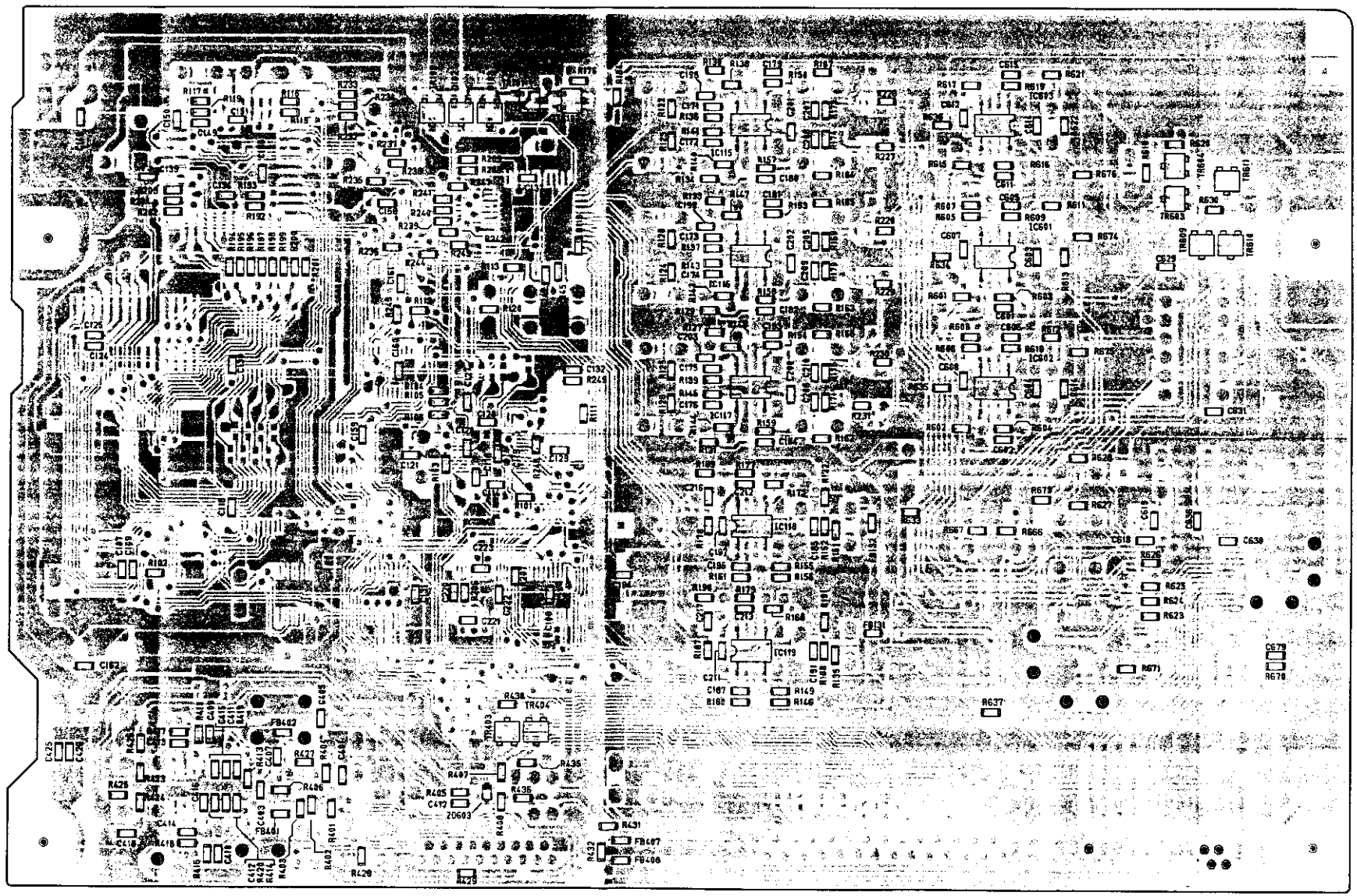


COMPONENT SIDE


1
2
3
4
5
6
7
8
A
B
C
D
E
FOIL SIDE

1U-3360 DSP P.W.B. Ass'y





FOIL SIDE

NOTE FOR PARTS LIST

- Part indicated with the mark "Ⓞ" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING:

Parts marked with this symbol ⚠ ▭ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

● Resistors

Ex.: RN 14K 2E 1B2 G FR

Type	Shape and performance	Power	Resistance	Allowable error	Others
RD : Carbon RC : Composition RS : Metal oxide film RW : Winding RN : Metal film RK : Metal mixture		2B : 1/8W 2E : 1/4W 2H : 1/2W 3A : 1W 3D : 2W 3F : 3W 3H : 5W		F : ±1% G : ±2% J : ±5% K : ±10% M : ±20%	P : Pulse-resistant type NL : Low noise type NB : Non-burning type FR : Fuse-resistor F : Lead wire forming

*** Resistance**

1 8 2 ⇒ 1800 ohm = 1.8 kohm
- 2 : 2-digit effective number.
- 8 : indicates number of zeros after effective number.

• Units: ohm

1 R 2 ⇒ 1.2 ohm
- 2 : 1-digit effective number.
- 1 : 2-digit effective number, decimal point indicated by R.

• Units: ohm

● Capacitors

Ex.: CE 04W 1H 2R2 M BP

Type	Shape and performance	Dielectric strength	Capacity	Allowable error	Others
CE : Aluminum foil electrolytic CA : Aluminum solid electrolytic CS : Tantalum electrolytic CQ : Film CK : Ceramic CC : Ceramic CP : Oil CM : Mica CF : Metallized CH : Metallized		0J : 6.3V 1A : 10V 1C : 16V 1E : 25V 1V : 35V 1H : 50V 2A : 100V 2B : 125V 2C : 160V 2D : 200V 2E : 250V 2H : 500V 2J : 630V		F : ±1% G : ±2% J : ±5% K : ±10% M : ±20% Z : +80% −20% P : +100% −0% C : ±0.25pF D : ±0.5pF = : Others	HS : High stability type BP : Non-polar type HR : Ripple-resistant type DL : For charge and discharge HF : For assuring high frequency U : UL part C : CSA part W : UL-CSA type F : Lead wire forming

*** Capacity (electrolyte only)**

2 2 2 ⇒ 2200μF
- 2 : 2-digit effective number.
- 2 : indicates number of zeros after effective number.

• Units: μF.

2 R 2 ⇒ 2.2μF
- 2 : 1-digit effective number.
- R : 2-digit effective number, decimal point indicated by R.

• Units: μF.

*** Capacity (except electrolyte)**

2 2 3 ⇒ 2200pF=0.0022μF
- 2 : 2-digit effective number.
- 3 (More than 2) : indicates number of zeros after effective number.

• Units: pF.

2 2 1 ⇒ 220pF
- 2 : 2-digit effective number.
- 1 (0 or 1) : indicates number of zeros after effective number.

• Units: pF.

• When the dielectric strength is indicated in AC, "AC" is included after the dielectric strength value.

PARTS LIST OF P.W.B. UNIT

GU-3333Z DVD MAIN P.W.B. UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC101	262 2811 002	IC ES4408F	
IC102	GEN 5274	ROM SUB ASS'Y(UADV7)	IC HY29F080T
IC103,104	262 2875 006	IC 16M SDRAM(TSOP)-6	
IC105	262 2801 902	IC SN74AHCT273PW	
IC108	262 2739 906	IC S-24C01AFJA	
IC110	262 2889 908	IC NC7ST32M5X	
IC111	262 1953 903	IC TC7WU04F	
IC112	263 1110 901	IC PQ070XZ01ZP	
IC113	263 1079 903	IC BA033FP	
IC114,115	262 2941 901	IC TC7WT125FU	
IC501	262 2802 008	IC TA1293F	
IC502	263 0425 901	IC NJM4558M	
IC503	263 1109 909	IC AN8471SA	
IC504	263 1080 905	IC BA5952AFP	
IC505	262 2803 007	IC TC9453F	
IC506	262 2892 908	IC 74VHC4066MTC	
IC507	262 2877 907	IC 4M DRAM(SOJ)-35	
IC508	262 2798 002	IC TC9469BF	
IC509	262 2877 907	IC 4M DRAM(SOJ)-35	
IC511	262 2911 203	IC TMP95CW64F-****	
IC512	263 1079 903	IC BA033FP	
IC701	262 2799 001	IC ADV7172KST	
TR101	269 0082 902	Transistor DTC114EK	
TR501,502	272 0156 902	Transistor 2SB1260-Q	
TR503-505	269 0091 906	Transistor DTC143TK	
TR507,508	269 0106 901	Transistor DTA144TK	
TR509	269 0171 907	Transistor IMD3A	
TR701-703	272 0125 904	Transistor 2SB709A	
TR705,706	272 0125 904	Transistor 2SB709A	
D102	276 0717 903	Diode 1SS355	
D305	276 0717 903	Diode 1SS355	
D501,502	276 0717 903	Diode 1SS355	
ZD702	276 0683 930	Zener diode UDZS5.1B	
RESISTORS GROUP			
R101	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R102-104	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J
R106,107	247 2004 920	Carbon chip 47ohm 1/16W	RM73B--470J
R108	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J
R109,110	247 9002 912	Chip network 6.8kohm 1/16W	MNR14=682JE0AB
R112,113	247 2004 920	Carbon chip 47ohm 1/16W	RM73B--470J
R115	247 2004 920	Carbon chip 47ohm 1/16W	RM73B--470J

Ref. No.	Part No.	Part Name	Remarks
R116-122	247 2009 941	Carbon chip 6.8kohm 1/16W	RM73B--682J
R123-129	247 9002 909	Chip network 33ohm 1/16W	MNR14=330JE0AB
R130	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J
R132	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J
R134,135	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J
R136	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R138	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R149	247 2014 965	Carbon chip 1Mohm 1/16W	RM73B--105J
R150	247 2006 944	Carbon chip 390ohm 1/16W	RM73B--391J
R151	247 2004 975	Carbon chip 75ohm 1/16W	RM73B--750J
R153-156	247 2004 975	Carbon chip 75ohm 1/16W	RM73B--750J
R157,158	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R160	247 2008 913	Carbon chip 2kohm 1/16W	RM73B--202J
R161	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R165	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R167	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R168-170	247 2009 941	Carbon chip 6.8kohm 1/16W	RM73B--682J
R174	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R501	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R502	247 2006 960	Carbon chip 470ohm 1/16W	RM73B--471J
R503	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R504	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R505,506	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R507	247 2012 925	Carbon chip 100kohm 1/16W	RM73B--104J
R508	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J
R510	247 2012 925	Carbon chip 100kohm 1/16W	RM73B--104J
R511,512	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J
R513,514	247 2005 958	Carbon chip 160ohm 1/16W	RM73B--161J
R515,516	247 2005 945	Carbon chip 150ohm 1/16W	RM73B--151J
R517	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R518,519	247 2005 958	Carbon chip 160ohm 1/16W	RM73B--161J
R520,521	247 2005 945	Carbon chip 150ohm 1/16W	RM73B--151J
R522	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R523	247 2004 988	Carbon chip 82ohm 1/16W	RM73B--820J
R524	247 2005 903	Carbon chip 100ohm 1/16W	RM73B--101J
R525	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R526,527	247 2005 903	Carbon chip 100ohm 1/16W	RM73B--101J
R528-530	247 2018 916	Carbon chip 1ohm 1/16W	RM73B--010K
R531	247 2010 972	Carbon chip 24kohm 1/16W	RM73B--243J
R532,533	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R534	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R535	247 2018 916	Carbon chip 1ohm 1/16W	RM73B--010K
R536	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J
R537-540	247 2018 916	Carbon chip 1ohm 1/16W	RM73B--010K
R541,542	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R543-545	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R546	247 2014 965	Carbon chip 1Mohm 1/16W	RM73B--105J
R547	247 2006 902	Carbon chip 330ohm 1/16W	RM73B--331J
R548	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R549	247 2013 982	Carbon chip 470kohm 1/16W	RM73B--474J
R550	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J

Ref. No.	Part No.	Part Name	Remarks
R551,552	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R553-557	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R558	247 2012 996	Carbon chip 200kohm 1/16W	RM73B--204J
R559	247 2009 925	Carbon chip 5.6kohm 1/16W	RM73B--562J
R560	247 2009 941	Carbon chip 6.8kohm 1/16W	RM73B--682J
R561,562	247 2009 925	Carbon chip 5.6kohm 1/16W	RM73B--562J
R563	247 2010 985	Carbon chip 27kohm 1/16W	RM73B--273J
R564	247 2011 968	Carbon chip 56kohm 1/16W	RM73B--563J
R565,566	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R568	247 2013 924	Carbon chip 270kohm 1/16W	RM73B--274J
R571	247 2012 970	Carbon chip 160kohm 1/16W	RM73B--164J
R573	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J
R574	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R575	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J
R576	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R577	247 2010 998	Carbon chip 30kohm 1/16W	RM73B--303J
R578	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J
R579-585	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R586	247 2008 968	Carbon chip 3.3kohm 1/16W	RM73B--332J
R587	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R589-594	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R596	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R597-600	247 9002 909	Chip network 33ohm 1/16W	MNR14=330JE0AB
R604	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R613-617	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R618	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R619,620	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R621-624	247 9002 912	Chip network 6.8kohm 1/16W	MNR14=682JE0AB
R637	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R638	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R640	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R642,643	247 9002 912	Chip network 6.8kohm 1/16W	MNR14=682JE0AB
R648	247 2011 900	Carbon chip 33kohm 1/16W	RM73B--333J
R649	247 2005 961	Carbon chip 180ohm 1/16W	RM73B--181J
R650	247 2010 969	Carbon chip 22kohm 1/16W	RM73B--223J
R651-653	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R656-664	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R668	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R669	247 2009 912	Carbon chip 5.1kohm 1/16W	RM73B--512J
R670	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R671-674	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R675	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R679	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R680	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R681-685	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R686	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R701-703	247 2004 920	Carbon chip 47ohm 1/16W	RM73B--470J
R704	247 2007 927	Carbon chip 820ohm 1/16W	RM73B--821J
R706	247 2006 986	Carbon chip 560ohm 1/16W	RM73B--561J
R707,708	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R709	247 2006 986	Carbon chip 560ohm 1/16W	RM73B--561J

Ref. No.	Part No.	Part Name	Remarks
R711	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R713	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J
R715	247 2008 900	Carbon chip 1.8kohm 1/16W	RM73B--182J
R716	247 2008 968	Carbon chip 3.3kohm 1/16W	RM73B--332J
R717	247 2004 920	Carbon chip 47ohm 1/16W	RM73B--470J
R718	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R720	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R724	247 2005 987	Carbon chip 220ohm 1/16W	RM73B--221J
R725	247 2003 989	Carbon chip 33ohm 1/16W	RM73B--330J
R726	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R727	247 2005 987	Carbon chip 220ohm 1/16W	RM73B--221J
R728	247 2003 989	Carbon chip 33ohm 1/16W	RM73B--330J
R729	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R730	247 2005 987	Carbon chip 220ohm 1/16W	RM73B--221J
R731	247 2003 989	Carbon chip 33ohm 1/16W	RM73B--330J
R732	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R733	247 2005 987	Carbon chip 220ohm 1/16W	RM73B--221J
R736	247 2005 987	Carbon chip 220ohm 1/16W	RM73B--221J
R737	247 2003 989	Carbon chip 33ohm 1/16W	RM73B--330J
R738	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R739	247 2005 987	Carbon chip 220ohm 1/16W	RM73B--221J
R740	247 2003 989	Carbon chip 33ohm 1/16W	RM73B--330J
R741	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R840	244 2050 933	Metal oxide 180ohm 1W (NB)	RS14B3A181JNBS (S)
R937	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
VR701,702	211 6138 903	Semi fixed resistor 1kohm	PB102MT(RH03ADC)
CAPACITORS GROUP			
C101,102	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101M
C103,104	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C105	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C106	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C107	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C108	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C109-111	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C112	257 0504 982	Ceramic chip 47pF/50V	CC73CH1H470J
C113	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C114	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101M
C115-122	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C123	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101M
C124-128	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C129	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101M
C130-135	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C136	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101M
C137	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C138	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C139	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C140	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101M
C141	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C142	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K

Ref. No.	Part No.	Part Name	Remarks
C143-145	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C146	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C147-149	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C150	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C151-153	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C154	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C155,156	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C157	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C158	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C159	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C172	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C175,176	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C177	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C178	254 4465 918	Electrolytic 47uF/16V	CE67C1C470M
C179,180	257 0502 997	Ceramic chip 7pF/50V	CC73CH1H7R0D
C181	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101M
C182,183	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C184	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101M
C185,186	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C190	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C191	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C193	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C194	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C195	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C196	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C197	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C198	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C199	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C200	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C201	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C202	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C203	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C204	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C207	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C208	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C209,210	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C211	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C212	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C213	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C214	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C215	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C216	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C217	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C218	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C219	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C220	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C221	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C222	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C223	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C224	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C230	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z

Ref. No.	Part No.	Part Name	Remarks
C231	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C232,233	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C457,458	254 3053 910	Electrolytic 22uF/16V	CE04D1C220MBP
C501	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C503	254 4465 905	Electrolytic 22uF/16V	CE67C1C220M
C504-506	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C507,508	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C509	257 0503 925	Ceramic chip 10pF/50V	CC73CH1H100D
C510	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C511	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C512	257 2010 937	Tantalum chip 22uF/10V	CS77B1A220M
C513,514	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C515-517	257 0507 976	Ceramic chip 330pF/50V	CC73CH1H331J
C519	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C522	257 0503 925	Ceramic chip 10pF/50V	CC73CH1H100D
C523	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C524	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C526	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C527	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C528,529	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C530,531	257 0510 934	Ceramic chip 4700pF/50V	CK73B1H472K
C532	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C533	254 4465 905	Electrolytic 22uF/16V	CE67C1C220M
C534	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C535	254 4465 905	Electrolytic 22uF/16V	CE67C1C220M
C536,537	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C538	254 4465 905	Electrolytic 22uF/16V	CE67C1C220M
C539,540	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C544,545	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C546	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101M
C547	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C548	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C549	257 4010 906	Electrolytic 100uF/16V	CE67C1C101M
C550	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C552	257 0516 909	Ceramic chip 0.022uF/25V	CK73B1E223K
C553	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C554	257 0506 977	Ceramic chip 120pF/50V	CC73CH1H121J
C555,556	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C557	257 0506 977	Ceramic chip 120pF/50V	CC73CH1H121J
C560	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C562	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C563	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C564	257 0501 927	Ceramic chip 0.015uF/50V	CK73B1H153K
C565-569	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C570	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101M
C571-573	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C574	254 4465 905	Electrolytic 22uF/16V	CE67C1C220M
C575-577	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C578	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C579	257 0510 918	Ceramic chip 3300pF/50V	CK73B1H332K

Ref. No.	Part No.	Part Name	Remarks
C580	257 0501 927	Ceramic chip 0.015uF/50V	CK73B1H153K
C582-589	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C590,591	257 0507 976	Ceramic chip 330pF/50V	CC73CH1H331J
C592	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101M
C593	257 0510 950	Ceramic chip 6800pF/50V	CK73B1H682K
C594	257 0509 945	Ceramic chip 1200pF/50V	CK73B1H122K
C595	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C596	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101J
C597	257 0509 990	Ceramic chip 2200pF/50V	CK73B1H222K
C598	257 0509 945	Ceramic chip 1200pF/50V	CK73B1H122K
C599-601	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C602	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101M
C603-606	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C609-618	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C619	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C620-623	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C626-628	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C629	254 4465 905	Electrolytic 22uF/16V	CE67C1C220M
C630-633	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C634	257 4010 906	Electrolytic 100uF/16V	CE67C1C101M
C635,636	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C637	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101M
C639	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101M
C640	257 2010 937	Tantalum chip 22uF/10V	CS77B1A220M
C641	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C650	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101J
C660	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C701-710	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C711	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101M
C712	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C713	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C714-716	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C718-720	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C722,723	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C724	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C725	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C800	257 0504 908	Ceramic chip 22pF/50V	CC73CH1H220J

Ref. No.	Part No.	Part Name	Remarks	Q'ty
OTHER PARTS GROUP				
CX031	205 0863 936	3P PH connector base (L)		1
CX051	205 0863 952	5P PH connector base (L)		1
CX061	205 0863 965	6P PH connector base (L)		1
CX091	205 0863 907	9P PH connector base (L)		1
CX141	205 1172 943	14P PH connector base (L)		1
CX151	205 1149 905	15P FFC connector base		1
CX171	205 1174 909	17P FFC connector base		1
CX191	205 1174 912	19P FFC connector base		1
CX241	205 1152 905	24P FFC connector base		1
FB101-110	235 0130 903	EMI filter (11A121)		10
FB501	235 0136 907	Beads inductor	FBMJ1608HS280N	1
FB502-504	235 0130 903	EMI filter (11A121)		3
FB505,506	235 0138 905	Beads inductor	FBMH3216MH501N	2
FB507-509	235 0136 907	Beads inductor	FBMJ1608HS280N	3
FB701-703	235 0130 903	EMI filter (11A121)		3
FB705-724	235 0130 903	EMI filter (11A121)		20
L701	235 0125 905	Inductor 22uH		1
L703	235 0125 905	Inductor 22uH		1
X101	399 0619 906	Crystal 27MHz		1
X501	399 0697 902	Ceramic resonator 22.57MHz		1
X502	399 0699 900	Ceramic resonator 50MHz		1
X503	399 0698 901	Ceramic resonator 25MHz		1

1U-3358/3358A MAIN P.W.B. UNIT ASS'Y

Note: The symbols in the column "Remarks" indicate the following destinations.
E3: U.S.A./Canada model
E2: Europe model

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC101	262 2956 006	IC M30624FGAGP	
IC102	262 1636 903	IC TC74HC32AF	
IC103	262 2960 908	IC S29590ADFJA	
IC104	263 0454 901	IC M51957BFP	
IC106	262 2547 907	IC LC72720NM	for E2
IC501	262 2488 008	IC TC9164AN	
IC503	263 0615 902	IC BA15218F	
IC504	263 0615 902	IC BA15218F	for E2
IC606-609	263 0615 902	IC BA15218F	
IC701	265 0109 003	IC STK402-050	
IC702	265 0110 005	IC STK402-250	
IC902,903	263 1092 003	IC BA05T	
IC904,905	263 1093 002	IC BA05ST	
IC907	263 1127 004	IC BA12ST	
IC908	263 0801 004	IC NJM7812FA (S)	
IC909	263 0641 002	IC NJM7912FA	
TR102-104	269 0083 901	Transistor DTA114EK	
TR105,106	269 0066 902	Transistor DTC323TK	
TR107	269 0082 902	Transistor DTC114EK	
TR108	273 0384 900	Transistor 2SC2412K (S)	for E2
TR501,502	273 0459 903	Transistor KTC2874B	
TR503,504	269 0046 906	Transistor DTA114ES	
TR505-508	273 0459 903	Transistor KTC2874B	for E2
TR509	269 0046 906	Transistor DTA114ES	for E2
TR605,606	275 0100 902	FET 2SK771	
TR607	269 0082 902	Transistor DTC114EK	
TR608	269 0083 901	Transistor DTA114EK	
TR702,703	273 0460 905	Transistor KTC2875B	
TR704,705	274 0188 905	Transistor 2SD1858 (Q/R)	
TR707	273 0460 905	Transistor KTC2875B	
TR709,710	273 0460 905	Transistor KTC2875B	
TR711-713	274 0188 905	Transistor 2SD1858 (Q/R)	
TR715	273 0303 910	Transistor 2SC1740S (S)	
TR717	273 0303 910	Transistor 2SC1740S (S)	
TR719	273 0303 910	Transistor 2SC1740S (S)	
TR721	273 0303 910	Transistor 2SC1740S (S)	
TR722	269 0083 901	Transistor DTA114EK	
TR723	269 0054 901	Transistor DTC144EK	
TR724	271 0303 008	Transistor KTA1659A	
TR801	271 0238 908	Transistor 2SA1037K (S/R)	
TR802,803	273 0384 900	Transistor 2SC2412K (S)	
TR804	271 0238 908	Transistor 2SA1037K (S/R)	
TR805,806	273 0384 900	Transistor 2SC2412K (S)	
TR807	271 0238 908	Transistor 2SA1037K (S/R)	
TR808	273 0384 900	Transistor 2SC2412K (S)	
TR901	272 0025 907	Transistor 2SB562 (C)	
TR905	269 0054 901	Transistor DTC144EK	
D101-103	276 0432 903	Diode 1SS270A	
D501,502	276 0432 903	Diode 1SS270A	
D603,604	276 0432 903	Diode 1SS270A	
D701-716	276 0432 903	Diode 1SS270A	
D801,802	276 0432 903	Diode 1SS270A	
D901	276 0741 005	Diode D3SBA60	
D902	276 0742 004	Diode D5SBA20	
D903,904	276 0704 903	Diode 1SR35-400A	
D905,906	276 0432 903	Diode 1SS270A	
D907	276 0741 005	Diode D3SBA60	
D908-910	276 0704 903	Diode 1SR35-400A	
D916	276 0704 903	Diode 1SR35-400A	
D918,919	276 0704 903	Diode 1SR35-400A	
D920,921	276 0432 903	Diode 1SS270A	
ZD501	276 0643 996	Zener diode MTZJ5.6A	
ZD701	276 0644 924	Zener diode MTZJ8.2A	
ZD801	276 0643 983	Zener diode MTZJ5.1A	
ZD901	276 0643 996	Zener diode MTZJ5.6A	
ZD902	276 0645 981	Zener diode MTZJ39A	
RESISTORS GROUP			
R101-104	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R105	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J
R106-108	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R109,110	247 2005 903	Carbon chip 100ohm 1/16W	RM73B--101J
R111-121	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R122	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R123-136	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R139-153	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R154	247 2012 925	Carbon chip 100kohm 1/16W	RM73B--104J
R155	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J for E3
R156	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J
R157	247 2012 925	Carbon chip 100kohm 1/16W	RM73B--104J
R158	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J

Ref. No.	Part No.	Part Name	Remarks
R159	247 2010 985	Carbon chip 27kohm 1/16W	RM73B--273J for E2
R159	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J for E3
R160	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J for E2
R161	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R162	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J
R163	247 2012 925	Carbon chip 100kohm 1/16W	RM73B--104J
R164	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J
R165	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R166	247 2010 998	Carbon chip 30kohm 1/16W	RM73B--303J
R167	247 2010 901	Carbon chip 12kohm 1/16W	RM73B--123J
R168	247 2006 902	Carbon chip 330ohm 1/16W	RM73B--331J
R169	247 2005 987	Carbon chip 220ohm 1/16W	RM73B--221J
R170	247 2008 926	Carbon chip 2.2kohm 1/16W	RM73B--222J
R172-175	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R176	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J
R177,178	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R179	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J
R180	247 2008 913	Carbon chip 2kohm 1/16W	RM73B--202J
R181	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J for E2
R182	247 2008 968	Carbon chip 3.3kohm 1/16W	RM73B--332J for E2
R183	247 2014 923	Carbon chip 680kohm 1/16W	RM73B--684J for E2
R184,185	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J
R186	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R187,188	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R190	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R197	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R501-512	247 2006 960	Carbon chip 470ohm 1/16W	RM73B--471J
R513-524	247 2015 964	Carbon chip 2.7Mohm 1/16W	RM73B--275K
R525	247 2005 903	Carbon chip 100ohm 1/16W	RM73B--101J
R526,527	247 2005 987	Carbon chip 220ohm 1/16W	RM73B--221J
R529,530	247 2012 925	Carbon chip 100kohm 1/16W	RM73B--104J
R531,532	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R537,538	247 2012 925	Carbon chip 100kohm 1/16W	RM73B--104J for E3
R537,538	247 2012 996	Carbon chip 200kohm 1/16W	RM73B--204J for E2
R541,542	247 2005 903	Carbon chip 100ohm 1/16W	RM73B--101J
R549,550	247 2006 960	Carbon chip 470ohm 1/16W	RM73B--471J for E2
R551,552	247 2012 996	Carbon chip 200kohm 1/16W	RM73B--204J for E2
R553,554	247 2005 903	Carbon chip 100ohm 1/16W	RM73B--101J for E2
R555,556	247 2006 960	Carbon chip 470ohm 1/16W	RM73B--471J for E2
R557,558	247 2012 925	Carbon chip 100kohm 1/16W	RM73B--104J for E2
R559	247 2005 987	Carbon chip 220ohm 1/16W	RM73B--221J
R560,561	247 2012 925	Carbon chip 100kohm 1/16W	RM73B--104J
R562	247 2006 960	Carbon chip 470ohm 1/16W	RM73B--471J
R563	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R564	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R565	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R566	247 2013 982	Carbon chip 470kohm 1/16W	RM73B--474J
R567	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R568-570	244 2055 996	Metal oxide 1.2kohm 1W (NB)	RS14B3A122JNBS (S)
R571-574	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J for E2
R575,576	247 2005 987	Carbon chip 220ohm 1/16W	RM73B--221J for E2
R577	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R578	247 2013 982	Carbon chip 470kohm 1/16W	RM73B--474J
R579	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R580	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J for E2
R581	247 2013 982	Carbon chip 470kohm 1/16W	RM73B--474J for E2
R582	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J for E2
R587	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R589	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R591,592	247 2005 903	Carbon chip 100ohm 1/16W	RM73B--101J
R593,594	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R631	247 2012 925	Carbon chip 100kohm 1/16W	RM73B--104J
R633,634	247 2012 925	Carbon chip 100kohm 1/16W	RM73B--104J
R635,636	247 2006 902	Carbon chip 330ohm 1/16W	RM73B--331J
R637,638	247 2007 969	Carbon chip 1.2kohm 1/16W	RM73B--122J
R639	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R640	247 2008 926	Carbon chip 2.2kohm 1/16W	RM73B--222J
R641,642	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J
R643,644	247 2009 925	Carbon chip 5.6kohm 1/16W	RM73B--562J
R645,646	247 2009 941	Carbon chip 6.8kohm 1/16W	RM73B--682J
R647,648	247 2006 960	Carbon chip 470ohm 1/16W	RM73B--471J
R649,650	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J
R651,652	247 2009 925	Carbon chip 5.6kohm 1/16W	RM73B--562J
R653,654	247 2009 941	Carbon chip 6.8kohm 1/16W	RM73B--682J
R655,656	247 2006 960	Carbon chip 470ohm 1/16W	RM73B--471J
R657,658	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J
R659	247 2009 925	Carbon chip 5.6kohm 1/16W	RM73B--562J
R660	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R661	247 2009 941	Carbon chip 6.8kohm 1/16W	RM73B--682J
R662	247 2009 954	Carbon chip 7.5kohm 1/16W	RM73B--752J
R663,664	247 2006 960	Carbon chip 470ohm 1/16W	RM73B--471J
R701	244 2051 987	Metal oxide 4.7ohm 1W (NB)	RS14B3A4R7JNBS (S)
R702	247 2010 969	Carbon chip 22kohm 1/16W	RM73B--223J

Ref. No.	Part No.	Part Name	Remarks
R703	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R704	247 2012 925	Carbon chip 100kohm 1/16W	RM73B--104J
R705	247 2008 939	Carbon chip 2.4kohm 1/16W	RM73B--242J
R706	247 2011 968	Carbon chip 56kohm 1/16W	RM73B--563J
R707	247 2008 900	Carbon chip 1.8kohm 1/16W	RM73B--182J
R708	247 2009 941	Carbon chip 6.8kohm 1/16W	RM73B--682J
R709,710	241 2313 901	Carbon film 100ohm 1/4W (FR)	RD14B2E101GFRS
R711	247 2008 900	Carbon chip 1.8kohm 1/16W	RM73B--182J
R712	247 2008 939	Carbon chip 2.4kohm 1/16W	RM73B--242J
R713	247 2011 968	Carbon chip 56kohm 1/16W	RM73B--563J
R714	244 2051 987	Metal oxide 4.7ohm 1W (NB)	RS14B3A4R7JNBS (S)
R715	247 2010 969	Carbon chip 22kohm 1/16W	RM73B--223J
R716	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R717	247 2012 925	Carbon chip 100kohm 1/16W	RM73B--104J
R719	247 2011 968	Carbon chip 56kohm 1/16W	RM73B--563J
R720	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R721	241 2315 912	Carbon film 10ohm 1/4W (FR)	RD14B2E100GFRS
R724	247 2007 914	Carbon chip 750ohm 1/16W	RM73B--751J
R725	244 2043 982	Metal oxide 0.22ohm 1W (NB)	RS14B3AR22JNBS (S)
R726,727	244 2051 987	Metal oxide 4.7ohm 1W (NB)	RS14B3A4R7JNBS (S)
R728	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R729	247 2007 914	Carbon chip 750ohm 1/16W	RM73B--751J
R730	244 2043 982	Metal oxide 0.22ohm 1W (NB)	RS14B3AR22JNBS (S)
R732	247 2011 968	Carbon chip 56kohm 1/16W	RM73B--563J
R733	244 2051 987	Metal oxide 4.7ohm 1W (NB)	RS14B3A4R7JNBS (S)
R734	247 2010 969	Carbon chip 22kohm 1/16W	RM73B--223J
R735	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R736	247 2012 925	Carbon chip 100kohm 1/16W	RM73B--104J
R737	247 2008 939	Carbon chip 2.4kohm 1/16W	RM73B--242J
R738	247 2011 968	Carbon chip 56kohm 1/16W	RM73B--563J
R739	247 2008 900	Carbon chip 1.8kohm 1/16W	RM73B--182J
R740	247 2009 941	Carbon chip 6.8kohm 1/16W	RM73B--682J
R741,742	241 2313 901	Carbon film 100ohm 1/4W (FR)	RD14B2E101GFRS
R743	247 2008 900	Carbon chip 1.8kohm 1/16W	RM73B--182J
R744	247 2011 968	Carbon chip 56kohm 1/16W	RM73B--563J
R745	247 2008 939	Carbon chip 2.4kohm 1/16W	RM73B--242J
R746	247 2011 968	Carbon chip 56kohm 1/16W	RM73B--563J
R747	247 2008 939	Carbon chip 2.4kohm 1/16W	RM73B--242J
R748	247 2008 900	Carbon chip 1.8kohm 1/16W	RM73B--182J
R749-751	247 2011 900	Carbon chip 33kohm 1/16W	RM73B--333J
R752,753	247 2010 969	Carbon chip 22kohm 1/16W	RM73B--223J
R754,755	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R756,757	247 2012 925	Carbon chip 100kohm 1/16W	RM73B--104J
R759	247 2011 968	Carbon chip 56kohm 1/16W	RM73B--563J
R760	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R761	247 2007 914	Carbon chip 750ohm 1/16W	RM73B--751J
R762	244 2043 982	Metal oxide 0.22ohm 1W (NB)	RS14B3AR22JNBS (S)
R763	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R764,765	247 2011 900	Carbon chip 33kohm 1/16W	RM73B--333J
R766	247 2007 914	Carbon chip 750ohm 1/16W	RM73B--751J
R767	244 2043 982	Metal oxide 0.22ohm 1W (NB)	RS14B3AR22JNBS (S)
R769	247 2011 968	Carbon chip 56kohm 1/16W	RM73B--563J

Ref. No.	Part No.	Part Name	Remarks
R770	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R771	247 2007 914	Carbon chip 750ohm 1/16W	RM73B--751J
R772	244 2043 982	Metal oxide 0.22ohm 1W (NB)	RS14B3AR22JNBS (S)
R774	247 2011 968	Carbon chip 56kohm 1/16W	RM73B--563J
R775	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J
R776	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R777	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J
R778	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R779	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J
R780	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R781	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J
R782	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R783-787	247 2010 969	Carbon chip 22kohm 1/16W	RM73B--223J
R788-792	244 2043 937	Metal oxide 10ohm 1W (NB)	RS14B3A100JNBS (S)
R793,794	244 2055 941	Metal oxide 330ohm 1W (NB)	RS14B3A331JNBS (S)
R801	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J
R802	247 2012 925	Carbon chip 100kohm 1/16W	RM73B--104J
R803	247 2010 914	Carbon chip 13kohm 1/16W	RM73B--133J
R804	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R805	247 2012 925	Carbon chip 100kohm 1/16W	RM73B--104J
R807	247 2010 914	Carbon chip 13kohm 1/16W	RM73B--133J
R808	247 2010 927	Carbon chip 15kohm 1/16W	RM73B--153J
R809,810	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J
R901,902	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R905	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R906,907	241 2313 901	Carbon film 100ohm 1/4W (FR)	RD14B2E101GFRS
R908	247 2008 968	Carbon chip 3.3kohm 1/16W	RM73B--332J
R909	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J
R924	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R926	247 2009 912	Carbon chip 5.1kohm 1/16W	RM73B--512J
R927	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J
R928-930	244 2064 961	Metal oxide 200ohm 1W (NB)	S14B3A201JNBST(S)

CAPACITORS GROUP

C101	254 4533 921	Electrolytic 100uF/6.3V	CE04W0J101M (SMG/RE3
C102,103	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C104,105	254 4533 921	Electrolytic 100uF/6.3V	CE04W0J101M (SMG/RE3
C106,107	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C108	254 4524 956	Electrolytic 2.2uF/35V	CE04W1H2R2M (SMG/RE3)
C109,110	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C112	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z for E2
C113	254 4536 900	Electrolytic 10uF/16V	CE04W1C100M (SMG/RE3) for E2
C114	254 4522 903	Electrolytic 4.7uF/35V	CE04W1V4R7M (SMG/RE3) for E2
C115,116	257 0504 908	Ceramic chip 22pF/50V	CC73CH1H220J for E2
C117	257 0508 933	Ceramic chip 560pF/50V	CC73CH1H561J for E2

Ref. No.	Part No.	Part Name	Remarks
C118	254 4536 915	Electrolytic 47uF/10V	CE04W1A470M (SMG/RE3) for E2
C119	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z for E2
C120	254 4538 900	Electrolytic 10uF/16V	CE04W1C100M (SMG/RE3)
C121	257 0507 976	Ceramic chip 330pF/50V	CC73CH1H331J for E2
C122	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z for E2
C123	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K for E2
C125	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C126	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C127	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C128	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C129	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C130	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C131	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C133	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C134	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C503-508	257 0507 934	Ceramic chip 220pF/50V	CC73CH1H221J for E2
C511,512	257 0507 934	Ceramic chip 220pF/50V	CC73CH1H221J for E2
C513	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C515	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C516	254 4524 972	Electrolytic 4.7uF/50V	CE04W1H4R7M (SMG/RE3)
C517	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C518	254 4524 972	Electrolytic 4.7uF/50V	CE04W1H4R7M (SMG/RE3)
C519,520	254 4522 916	Electrolytic 10uF/35V	CE04W1V100M (SMG/RE3)
C527,528	254 4538 900	Electrolytic 10uF/16V	CE04W1C100M (SMG/RE3)
C531,532	254 4524 943	Electrolytic 1uF/50V	CE04W1H010M (SMG/RE3)
C535,536	254 4538 900	Electrolytic 10uF/16V	CE04W1C100M (SMG/RE3) for E2
C539,540	254 4524 943	Electrolytic 1uF/50V	CE04W1H010M (SMG/RE3) for E2
C541,542	254 4522 916	Electrolytic 10uF/35V	CE04W1V100M (SMG/RE3) for E2
C543	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C545	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101J
C546	254 4538 913	Electrolytic 22uF/16V	CE04W1C220M (SMG/RE3)
C547	254 4524 901	Electrolytic 0.1uF/50V	CE04W1H0R1M (SMG/RE3)
C548	254 4522 958	Electrolytic 100uF/35V	CE04W1V101M (SMG/RE3)
C549	254 4522 916	Electrolytic 10uF/35V	CE04W1V100M (SMG/RE3)
C550	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C553,554	254 4522 916	Electrolytic 10uF/35V	CE04W1V100M (SMG/RE3) for E2
C555	254 4524 901	Electrolytic 0.1uF/50V	CE04W1H0R1M (SMG/RE3)
C556	254 4524 901	Electrolytic 0.1uF/50V	CE04W1H0R1M (SMG/RE3) for E2
C557,558	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K

Ref. No.	Part No.	Part Name	Remarks
C559	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C566,567	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103K
C568	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103K for E2
C569,570	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101J
C640	254 4524 943	Electrolytic 1uF/50V	CE04W1H010M (SMG/RE3)
C641,642	254 4524 914	Electrolytic 0.22uF/50V	CE04W1HR22M (SMG/RE3)
C643,644	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C645,646	254 4524 930	Electrolytic 0.47uF/50V	CE04W1HR47M (SMG/RE3)
C649,650	254 4522 916	Electrolytic 10uF/35V	CE04W1V100M (SMG/RE3)
C651,652	257 0506 935	Ceramic chip 82pF/50V	CC73CH1H820J
C653,654	257 0511 917	Ceramic chip 0.022uF/50V	CK73F1H223Z
C655,656	254 4522 916	Electrolytic 10uF/35V	CE04W1V100M (SMG/RE3)
C659,660	254 4522 916	Electrolytic 10uF/35V	CE04W1V100M (SMG/RE3)
C661,662	257 0506 935	Ceramic chip 82pF/50V	CC73CH1H820J
C663,664	257 0511 917	Ceramic chip 0.022uF/50V	CK73F1H223Z
C665,666	254 4522 916	Electrolytic 10uF/35V	CE04W1V100M (SMG/RE3)
C669,670	254 4522 916	Electrolytic 10uF/35V	CE04W1V100M (SMG/RE3)
C671,672	257 0506 935	Ceramic chip 82pF/50V	CC73CH1H820J
C673,674	257 0511 917	Ceramic chip 0.022uF/50V	CK73F1H223Z
C675,676	254 4522 916	Electrolytic 10uF/35V	CE04W1V100M (SMG/RE3)
C677,678	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C680	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101J
C701	254 3055 905	Electrolytic 4.7uF/35V	CE04D1V4R7MBP
C702	257 0508 917	Ceramic chip 470pF/50V	CC73CH1H471J
C703	257 0507 934	Ceramic chip 220pF/50V	CC73CH1H221J
C704	254 4195 945	Electrolytic 33uF/35V	CE04W1V330M (SRA)
C705,706	254 4522 961	Electrolytic 220uF/35V	CE04W1V221M (SMG/RE3)
C707	254 4195 945	Electrolytic 33uF/35V	CE04W1V330M (SRA)
C708	257 0507 934	Ceramic chip 220pF/50V	CC73CH1H221J
C709	254 3055 905	Electrolytic 4.7uF/35V	CE04D1V4R7MBP
C710	257 0508 917	Ceramic chip 470pF/50V	CC73CH1H471J
C711	256 1058 971	Metallized 0.1uF/50V	CF93A1H104J (JL)
C712	257 0503 925	Ceramic chip 10pF/50V	CC73CH1H100D
C713,714	257 0511 917	Ceramic chip 0.022uF/50V	CK73F1H223Z
C715	257 0503 925	Ceramic chip 10pF/50V	CC73CH1H100D
C716	254 3055 905	Electrolytic 4.7uF/35V	CE04D1V4R7MBP
C717	257 0508 917	Ceramic chip 470pF/50V	CC73CH1H471J
C718	257 0507 934	Ceramic chip 220pF/50V	CC73CH1H221J
C719	254 4522 932	Electrolytic 33uF/35V	CE04W1V330M (SMG/RE3)
C720,721	254 4522 961	Electrolytic 220uF/35V	CE04W1V221M (SMG/RE3)
C722	254 4522 932	Electrolytic 33uF/35V	CE04W1V330M (SMG/RE3)
C723	257 0507 934	Ceramic chip 220pF/50V	CC73CH1H221J
C724	254 3055 905	Electrolytic 4.7uF/35V	CE04D1V4R7MBP
C725,726	257 0508 917	Ceramic chip 470pF/50V	CC73CH1H471J
C727	254 3055 905	Electrolytic 4.7uF/35V	CE04D1V4R7MBP
C728	257 0507 934	Ceramic chip 220pF/50V	CC73CH1H221J
C729	254 4522 932	Electrolytic 33uF/35V	CE04W1V330M (SMG/RE3)
C730,731	256 1058 971	Metallized 0.1uF/50V	CF93A1H104J (JL)
C732	257 0503 925	Ceramic chip 10pF/50V	CC73CH1H100D

Ref. No.	Part No.	Part Name	Remarks
C733,734	257 0511 917	Ceramic chip 0.022uF/50V	CK73F1H223Z
C735	257 0503 925	Ceramic chip 10pF/50V	CC73CH1H100D
C736	257 0511 917	Ceramic chip 0.022uF/50V	CK73F1H223Z
C737	257 0503 925	Ceramic chip 10pF/50V	CC73CH1H100D
C738	254 4538 942	Electrolytic 100uF/16V	CE04W1C101M (SMG/RE3)
C739	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C740-749	255 1265 936	Mylar film 0.01uF/50V	CQ93M1H103J (B)
C750,751	254 4522 958	Electrolytic 100uF/35V	CE04W1V101M (SMG/RE3)
C752,753	254 3056 917	Electrolytic 1uF/50V	CE04D1H010MBP
C754,755	254 4522 958	Electrolytic 100uF/35V	CE04W1V101M (SMG/RE3)
C756,757	256 1058 971	Metallized 0.1uF/50V	CF93A1H104J (JL)
C758	254 4522 932	Electrolytic 33uF/35V	CE04W1V330M (SMG/RE3)
C801	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C802	254 4533 947	Electrolytic 330uF/6.3V	CE04W0J331M (SMG/RE3)
C803	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C804	254 4533 947	Electrolytic 330uF/6.3V	CE04W0J331M (SMG/RE3)
C807	254 4524 972	Electrolytic 4.7uF/50V	CE04W1H4R7M (SMG/RE3)
C808	254 4524 985	Electrolytic 10uF/50V	CE04W1H100M (SMG/RE3)
C901	254 4536 928	Electrolytic 100uF/10V	CE04W1A101M (SMG/RE3)
C902	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C903,904	254 4536 928	Electrolytic 100uF/10V	CE04W1A101M (SMG/RE3)
C905,906	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C907	254 4536 928	Electrolytic 100uF/10V	CE04W1A101M (SMG/RE3)
C908,909	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C911	254 6222 706	Electrolytic 6800uF/35V	CE04W1V682M (DL)
C912	254 4442 711	Electrolytic 10000uF/16V	CE04W1C103M (SMG)
C915-917	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C918	254 4536 928	Electrolytic 100uF/10V	CE04W1A101M (SMG/RE3)
C919,920	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C921	257 0511 920	Ceramic chip 0.047uF/50V	CK73F1H473Z
C922	254 4524 985	Electrolytic 10uF/50V	CE04W1H100M (SMG/RE3)
C923	254 4525 926	Electrolytic 100uF/50V	CE04W1H101M (SMG/RE3)
C924	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C925,926	257 0511 920	Ceramic chip 0.047uF/50V	CK73F1H473Z
C927	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C928	254 4541 942	Electrolytic 100uF/25V	CE04W1E101M (SMG/RE3)
C929	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C930,931	254 4524 943	Electrolytic 1uF/50V	CE04W1H010M (SMG/RE3)
C932-935	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C936,937	254 4523 724	Electrolytic 4700uF/35V	CE04W1V472M (SMG/RE3)
C938,939	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C940-942	254 4538 900	Electrolytic 10uF/16V	CE04W1C100M (SMG/RE3)
C943,944	254 4522 916	Electrolytic 10uF/35V	CE04W1V100M (SMG/RE3)
C945-947	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C952	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C959	257 0511 920	Ceramic chip 0.047uF/50V	CK73F1H473Z
C960,961	254 4403 721	Electrolytic 2200uF/25V	CE04W1E222M (SMG)
C962	254 4442 711	Electrolytic 10000uF/16V	CE04W1C103M (SMG)

Ref. No.	Part No.	Part Name	Remarks	Q'ty
OTHER PARTS GROUP				
CW031	203 5270 007	3P PH-SAN connector cord		1
CW034	203 5269 005	3P PH-SAN connector cord		1
CW046	203 6568 006	4P EH-SCN connector cord		1
CW052	203 8528 002	5P SAN-SAN connector cord		1
CW062	204 0554 006	6P PH-SAN connector cord		1
CW077	204 2698 003	7P SAN-SAN connector cord		1
CW112	204 6698 005	11P EH-SCN connector cord		1
CX031	205 0321 038	3P connector base (RED)		1
CX033	205 0833 021	3P VH connector base (BU)		1
CX035	205 0355 033	3P KR connector base (L)		1
CX041	205 0653 049	4P VH connector base		1
CX046	205 0233 045	4P EH connector base		1
CX061,062	205 0343 061	6P connector base (KR-PH)		2
CX084	205 0233 087	8P EH connector base		1
CX101	205 0375 000	10P connector base (KR-PH)		1
CX112	205 0275 016	11P EH connector base		1
CX131	205 0810 002	13P connector base (L)		1
CX142	205 0810 015	14P connector base (L)		1
CX701	205 0406 034	3P connector base (KR-PH)		1
CX701	205 0406 050	5P connector base (KR-PH)		1
CY051	205 0343 058	5P connector base (KR-PH)		1
CY083	205 0321 083	8P connector base (RED)		1
CY091	205 0321 096	9P connector base (RED)		1
CY131	205 0809 000	13P connector base (9130)		1
CY142	205 0809 013	14P connector base (9130)		1
CY151	205 0736 076	15P FFC connector base		1
CY172	205 0736 047	17P FFC connector base		1
CY173	205 1100 038	17P FFC connector base		1
CY251	205 1214 005	25P FFC connector base		1
CY271	205 0880 016	27P FFC connector base		1
⚠F901	206 1075 069	Fuse 4A	for E2	1
⚠F901	206 1072 075	Fuse 4A	for E3	1
⚠F902-904	206 1075 001	Fuse 1A	for E2	3
⚠F902-904	206 1072 004	Fuse 1A T	for E3	3
FF901-904	202 0040 909	Fuse clip		4
FH901-904	202 0040 909	Fuse clip		4
JK501,502	204 8543 006	6P pin jack		2
JK503	204 8642 004	1P pin jack		1
JK701	205 1199 007	4P SP terminal (SGND)		1
JK702	205 1200 006	6P SP terminal (SGND)		1
L701-705	235 0104 007	Inductor 1uH		5
PT901	279 0034 054	Posistor PTH9M04BC222TS2F333		1
PT902	279 0034 012	Posistor PTH9M04BG222TS2F333		1

1U-3359/3359A DISP/VIDEO P.W.B. UNIT ASS'Y

Note: The symbols in the column "Remarks" indicate the following destinations.
E3: U.S.A./Canada model
E2: Europe model

Ref. No.	Part No.	Part Name	Remarks	Q'ty
RL701-704	214 0206 005	Relay (PCI212DM)		4
ST008,009	205 0452 017	Style pin		2
TP801	205 0343 045	4P connector base (KR-PH)		1
TP901s	205 0343 032	3P connector base (KR-PH)		1
W704	203 0703 003	1P board in wire	for E2	1
X101	399 0532 902	Ceramic resonator	CST12.5MTW-TF01	1
X102	399 0178 007	Crystal 4.332MHz	for E2	1
	513 3679 002	Fuse label (T4AL)	for E2	1
	513 3680 004	Fuse label (T1AL)	for E2	3
	415 0869 003	UL tube (L=30)	for PT901,902	2

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC301	263 0857 003	IC BA7626	
IC302,303	263 0856 004	IC BA7625	
IC304	262 1205 907	IC TC74HCU04AF	
IC305	262 2806 907	IC SN74HC153NS	
IC306	269 0187 001	Optical digital output (GP1FA551TZ)	
IC307	269 0194 007	Optical digital input (GP1FA551RZ)	
IC308	262 2089 902	IC NJU4053BV	for E2
IC310	262 2829 900	IC ML6427	
IC311	262 2829 900	IC ML6427	for E2
IC312	269 0194 007	Optical digital input (GP1FA551RZ)	
IC402,403	262 2534 907	IC BA7660FS	for E2
IC701	262 2951 904	IC M66005FP	
IC702	499 0301 006	Remocon sensor RPM6938-V4	
IC910	263 1092 003	IC BA05T	
TR301-306	271 0102 924	Transistor 2SA1015 (GR)	
TR307	269 0082 902	Transistor DTC114EK	for E2
TR308	274 0163 904	Transistor 2SD601A	
TR309	269 0082 902	Transistor DTC114EK	for E2
TR401	269 0083 901	Transistor DTA114EK	for E2
TR902	273 0384 900	Transistor 2SC2412K (S)	
TR904	273 0303 910	Transistor 2SC1740S (S)	
D911-913	276 0704 903	Diode 1SR35-400A	
D914	276 0432 903	Diode 1SS270A	
D917	276 0704 903	Diode 1SR35-400A	
ZD301	254 4536 928	Electrolytic 100uF/10V	CE04W1A101M (SMG/RE3)
LD701	393 9587 002	LED SPR-54MVW	
FL701	393 8052 004	FLT (15ST36GN)	

RESISTORS GROUP			
R301-308	247 2004 975	Carbon chip 75ohm 1/16W	RM73B--750J
R309-312	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R313-318	247 2004 962	Carbon chip 68ohm 1/16W	RM73B--680J
R321,322	247 2004 975	Carbon chip 75ohm 1/16W	RM73B--750J
R323-326	247 2005 974	Carbon chip 200ohm 1/16W	RM73B--201J
R327	247 2013 908	Carbon chip 220kohm 1/16W	RM73B--224J
R328	247 2009 967	Carbon chip 8.2kohm 1/16W	RM73B--822J
R330	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R331,332	247 2004 975	Carbon chip 75ohm 1/16W	RM73B--750J
R333	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R334	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J

Ref. No.	Part No.	Part Name	Remarks
R336	247 2006 960	Carbon chip 470ohm 1/16W	RM73B--471J
R337-339	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R340	247 2005 903	Carbon chip 100ohm 1/16W	RM73B--101J
R341,342	247 2005 974	Carbon chip 200ohm 1/16W	RM73B--201J
R343	247 2013 908	Carbon chip 220kohm 1/16W	RM73B--224J
R344	247 2009 967	Carbon chip 8.2kohm 1/16W	RM73B--822J
R345	247 2012 925	Carbon chip 100kohm 1/16W	RM73B--104J
R346-349	247 2005 974	Carbon chip 200ohm 1/16W	RM73B--201J
R350	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R351	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J
R354-359	247 2005 945	Carbon chip 150ohm 1/16W	RM73B--151J for E2
R363,364	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J for E2
R367	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J
R368	247 2008 900	Carbon chip 1.8kohm 1/16W	RM73B--182J
R370	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R371-375	247 2005 903	Carbon chip 100ohm 1/16W	RM73B--101J
R376,377	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R378	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R380,381	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K for E2
R382	247 2005 903	Carbon chip 100ohm 1/16W	RM73B--101J for E2
R383	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K for E2
R385	247 2005 945	Carbon chip 150ohm 1/16W	RM73B--151J
R386	247 2005 945	Carbon chip 150ohm 1/16W	RM73B--151J for E2
R386	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K for E3
R387	247 2005 945	Carbon chip 150ohm 1/16W	RM73B--151J
R388,389	247 2005 945	Carbon chip 150ohm 1/16W	RM73B--151J for E2
R388,389	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K for E3
R390	247 2005 945	Carbon chip 150ohm 1/16W	RM73B--151J
R391	247 2005 945	Carbon chip 150ohm 1/16W	RM73B--151J for E2
R392	247 2005 945	Carbon chip 150ohm 1/16W	RM73B--151J
R393,394	247 2005 945	Carbon chip 150ohm 1/16W	RM73B--151J for E2
R396	247 2005 945	Carbon chip 150ohm 1/16W	RM73B--151J for E2
R397	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J for E2
R398	247 2005 945	Carbon chip 150ohm 1/16W	RM73B--151J for E2
R399,400	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K for E2
R407	247 2004 975	Carbon chip 75ohm 1/16W	RM73B--750J for E3
R408	247 2011 900	Carbon chip 33kohm 1/16W	RM73B--333J for E2
R409	247 2009 925	Carbon chip 5.6kohm 1/16W	RM73B--562J for E2
R410	247 2011 900	Carbon chip 33kohm 1/16W	RM73B--333J for E2
R411	247 2009 925	Carbon chip 5.6kohm 1/16W	RM73B--562J for E2
R412,413	247 2004 975	Carbon chip 75ohm 1/16W	RM73B--750J for E2
R414,415	247 2004 975	Carbon chip 75ohm 1/16W	RM73B--750J for E3
R416	247 2011 900	Carbon chip 33kohm 1/16W	RM73B--333J for E2
R417	247 2009 925	Carbon chip 5.6kohm 1/16W	RM73B--562J for E2
R418	247 2011 900	Carbon chip 33kohm 1/16W	RM73B--333J for E2
R419	247 2009 925	Carbon chip 5.6kohm 1/16W	RM73B--562J for E2
R420,421	247 2004 975	Carbon chip 75ohm 1/16W	RM73B--750J for E2
R449	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K for E2
R450	247 2005 945	Carbon chip 150ohm 1/16W	RM73B--151J for E3
R450	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K for E2
R451	247 2005 945	Carbon chip 150ohm 1/16W	RM73B--151J for E3
R452-454	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K for E3
R455	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R458	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R460	247 2004 975	Carbon chip 75ohm 1/16W	RM73B--750J for E2
R461-463	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R465	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K for E2
R702	247 2005 945	Carbon chip 150ohm 1/16W	RM73B--151J
R703	247 2005 961	Carbon chip 180ohm 1/16W	RM73B--181J
R704	247 2006 915	Carbon chip 270ohm 1/16W	RM73B--271J
R705	247 2006 944	Carbon chip 390ohm 1/16W	RM73B--391J
R706	247 2006 973	Carbon chip 510ohm 1/16W	RM73B--511J
R707	247 2007 930	Carbon chip 910ohm 1/16W	RM73B--911J
R709	247 2005 945	Carbon chip 150ohm 1/16W	RM73B--151J
R710	247 2005 961	Carbon chip 180ohm 1/16W	RM73B--181J
R713	247 2010 985	Carbon chip 27kohm 1/16W	RM73B--273J
R714,715	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R716-718	247 2005 903	Carbon chip 100ohm 1/16W	RM73B--101J
R719	247 2006 915	Carbon chip 270ohm 1/16W	RM73B--271J
R720	247 2005 903	Carbon chip 100ohm 1/16W	RM73B--101J

Ref. No.	Part No.	Part Name	Remarks
R721-723	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R726,727	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R910,911	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R912	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J
R913	247 2008 900	Carbon chip 1.8kohm 1/16W	RM73B--182J
R915	244 2043 937	Metal oxide 10ohm 1W (NB)	RS14B3A100JNBS (S)
R917	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J
R918	242 2009 001	Composition 2.2Mohm 1/2W	RC05GF2H225K (UL) for E3
R922	247 2008 913	Carbon chip 2kohm 1/16W	RM73B--202J
R923	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R925	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J

CAPACITORS GROUP

C301	254 4522 903	Electrolytic 4.7uF/35V	CE04W1V4R7M (SMG/RE3)
C302	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C303	254 4524 972	Electrolytic 4.7uF/50V	CE04W1H4R7M (SMG/RE3)
C304	257 0511 917	Ceramic chip 0.022uF/50V	CK73F1H223Z
C305,306	254 4524 972	Electrolytic 4.7uF/50V	CE04W1H4R7M (SMG/RE3)
C307	254 4524 943	Electrolytic 1uF/50V	CE04W1H010M (SMG/RE3)
C309,310	254 4533 947	Electrolytic 330uF/6.3V	CE04W0J331M (SMG/RE3)
C311	254 4533 934	Electrolytic 220uF/6.3V	CE04W0J221M (SMG/RE3)
C312	254 4533 950	Electrolytic 470uF/6.3V	CE04W0J471M (SMG/RE3)
C313	254 4533 934	Electrolytic 220uF/6.3V	CE04W0J221M (SMG/RE3)
C314	254 4533 950	Electrolytic 470uF/6.3V	CE04W0J471M (SMG/RE3)
C315	254 4536 928	Electrolytic 100uF/10V	CE04W1A101M (SMG/RE3)
C316	254 4538 900	Electrolytic 10uF/16V	CE04W1C100M (SMG/RE3)
C317,318	254 4524 943	Electrolytic 1uF/50V	CE04W1H010M (SMG/RE3)
C319	254 4538 900	Electrolytic 10uF/16V	CE04W1C100M (SMG/RE3)
C320	257 0511 917	Ceramic chip 0.022uF/50V	CK73F1H223Z
C321	254 4536 928	Electrolytic 100uF/10V	CE04W1A101M (SMG/RE3)
C322,323	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C324,325	254 4538 939	Electrolytic 47uF/16V	CE04W1C470M (SMG/RE3)
C326,327	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C328,329	254 4536 928	Electrolytic 100uF/10V	CE04W1A101M (SMG/RE3)
C330,331	254 4538 942	Electrolytic 100uF/16V	CE04W1C101M (SMG/RE3)
C332,333	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C334-338	254 4522 903	Electrolytic 4.7uF/35V	CE04W1V4R7M (SMG/RE3)
C339	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C340	254 4533 921	Electrolytic 100uF/6.3V	CE04W0J101M (SMG/RE3) for E2
C341	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z for E2
C342,343	254 4538 939	Electrolytic 47uF/16V	CE04W1C470M (SMG/RE3) for E2
C347	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z for E2
C348	257 0511 917	Ceramic chip 0.022uF/50V	CK73F1H223Z
C350	257 0508 917	Ceramic chip 470pF/50V	CC73CH1H471J
C351	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C353	254 4533 950	Electrolytic 470uF/6.3V	CE04W0J471M (SMG/RE3)
C354	254 4538 939	Electrolytic 47uF/16V	CE04W1C470M (SMG/RE3)
C355	254 4533 950	Electrolytic 470uF/6.3V	CE04W0J471M (SMG/RE3)
C356	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C357	254 4538 939	Electrolytic 47uF/16V	CE04W1C470M (SMG/RE3)
C358	254 4533 921	Electrolytic 100uF/6.3V	CE04W0J101M (SMG/RE3)
C359	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C360,361	254 4327 904	Electrolytic 1000uF/6.3V	CE04W0J102M (SMG)
C362	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103K
C363	254 4533 921	Electrolytic 100uF/6.3V	CE04W0J101M (SMG/RE3)
C364	254 4533 921	Electrolytic 100uF/6.3V	CE04W0J101M (SMG/RE3) for E3
C365	254 4533 950	Electrolytic 470uF/6.3V	CE04W0J471M (SMG/RE3) for E2
C366	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z for E2
C367	254 4533 921	Electrolytic 100uF/6.3V	CE04W0J101M (SMG/RE3) for E2
C369	254 4327 904	Electrolytic 1000uF/6.3V	CE04W0J102M (SMG) for E2
C404	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z for E2
C405,406	254 4213 937	Electrolytic 100uF/6.3V	CE04W0J101M (SRA) for E2
C407	254 4193 918	Electrolytic 22uF/16V	CE04W1C220M (SRA) for E2
C408	254 4213 937	Electrolytic 100uF/6.3V	CE04W0J101M (SRA) for E2
C409	254 4193 918	Electrolytic 22uF/16V	CE04W1C220M (SRA) for E2
C412	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z for E2
C413,414	254 4213 937	Electrolytic 100uF/6.3V	CE04W0J101M (SRA) for E2
C415	254 4193 918	Electrolytic 22uF/16V	CE04W1C220M (SRA) for E2
C416	254 4213 937	Electrolytic 100uF/6.3V	CE04W0J101M (SRA) for E2
C417	254 4193 918	Electrolytic 22uF/16V	CE04W1C220M (SRA) for E2
C428,429	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101J for E2
C430	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z for E2
C431	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z for E2
C432	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K for E2
C437	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z for E2
C440	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z for E3

Ref. No.	Part No.	Part Name	Remarks
C441	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
			for E3
C442	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
			for E2
C443	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
			for E2
C444	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
			for E2
C451	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
C465	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C466	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
C468	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103K
			for E2
C702	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C703	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103K
C704	254 4213 940	Electrolytic 220uF/6.3V	CE04W0J221M (SRA)
C705	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103K
C706	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C707	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101J
C708,709	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103K
C710	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C712	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C713,714	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103K
C716,717	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103K
C718	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C719,720	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C721-724	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103K
C725	254 4196 944	Electrolytic 1uF/50V	CE04W1H010M (SRA)
C940	254 4538 900	Electrolytic 10uF/16V	CE04W1C100M (SMG/RE3)
C941	254 4403 721	Electrolytic 2200uF/25V	CE04W1E222M (SMG)
C943	254 4403 718	Electrolytic 1000uF/25V	CE04W1E102M (SMG)
C944	253 8026 703	Ceramic 4700pF/250V (AC)	CK45E2EAC472M
C950	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C956,957	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C958	257 0511 920	Ceramic chip 0.047uF/50V	CK73F1H473Z

OTHER PARTS GROUP				Q'ty
CW082	205 0355 088	8P KR connector base (L)		1
CX021	205 0581 001	2P VH connector base		1
CX022	205 0581 069	2P VH-VH connector base		1
CX034	205 0343 032	3P connector base (KR-PH)		1
CX051	203 8527 003	5P PH-SAN connector cord		1
CX102	205 0375 000	10P connector base (KR-PH)	for E3	1
CX111	205 0375 013	11P connector base (KR-PH)	for E2	1
CX172	205 0702 071	17P FFC connector base (L)		1
CX173	205 1006 080	17P FFC connector base		1
CY061	205 0355 062	6P KR connector base (L)		1
CY111	205 0480 018	11P KR connector base (L)	for E2	1

Ref. No.	Part No.	Part Name	Remarks	Q'ty
CY171	205 1006 080	17P FFC connector base		1
CY902	205 0480 005	10P KR connector base (L)	for E3	1
⚠F905	206 1075 027	Fuse 1.6A	for E2	1
⚠F905	206 1072 046	Fuse 2.5A	for E3	1
FB401-404	235 0130 903	EMI filter (11A121)	for E2	4
FB408,409	235 0130 903	EMI filter (11A121)	for E2	2
FB410-412	235 0130 903	EMI filter (11A121)	for E3	3
FF905	202 0040 909	Fuse clip		1
FH905	202 0040 909	Fuse clip		1
JK301	204 8415 011	3P S-terminal		1
JK302	204 8414 012	2P S-terminal		1
JK303	204 8516 017	3P pin jack		1
JK304	204 8537 012	2P pin jack (GND)		1
JK401	204 6686 004	RGB connector (S-GND)	for E2	1
JK701	204 8636 007	Mini jack (ST.SW)		1
L301,302	235 0060 918	Inductor 4.7uH	for E2	2
L303,304	235 0070 911	Inductor 22uH		2
L305	235 0070 911	Inductor 22uH	for E2	3
L401	235 0070 911	Inductor 22uH	for E2	1
L701	239 8019 002	Line filter coil		1
RL901	214 0214 000	Relay (SDT-S-109LMR)		1
S701-710	212 0467 000	Tact switch		10
S711	212 0461 006	Rotary encoder (V)		1
S712	212 0462 005	Rotary encoder (F)		1
S713	212 0467 000	Tact switch		1
⚠T901	233 6383 004	Power trans. Sub (E2)	for E2	1
⚠T901	233 6384 003	Power trans. Sub (E3)	for E3	1
	449 0172 007	Sensor holder		1
	461 1110 000	FL spacer		2
	513 3681 003	Fuse label (T1.6AL)	for E2	1
	412 4833 007	Shield plate (3P)	for E3	1

1U-3360 DSP P.W.B. UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC101	262 2964 001	IC AT49LV002-70TC	
IC103	262 2820 909	IC SN74LV574APW	
IC104	262 2954 901	IC SN74LVC574APW	
IC105	262 2959 906	IC SN74LV244APW	
IC106	262 2953 902	IC SN74HCT244APW	
IC107	262 2675 015	IC LC89055W	
IC108	262 2950 002	IC AK4527BVQ	
IC109	262 2949 903	IC CS493292-CL	
IC110,111	262 2519 906	IC SN74LV00APW	
IC112	262 2446 901	IC SN74LVC244APW	
IC113	262 2953 902	IC SN74HCT244APW	
IC114	262 2781 909	IC SN74LV4040APW	
IC115-117	263 0615 902	IC BA15218F	
IC118,119	263 0934 900	IC BA4510F	
IC120	263 1126 908	IC NJM7805DL1A	
IC121	263 1129 905	IC NJM2391DL1-25	
IC122	263 1130 907	IC NJM2391DL1-33	
IC123	262 2608 901	IC TC74VHC123FT	
IC401	262 2768 906	IC AD1854KRSRL	
IC402	263 0615 902	IC BA15218F	
IC601-603	263 0615 902	IC BA15218F	
IC604	262 2952 903	IC M62446FP	
IC605	263 0359 006	IC LC4966	
TR101	269 0082 902	Transistor DTC114EK	
TR102	269 0083 901	Transistor DTA114EK	
TR103-108	273 0460 905	Transistor KTC2875B	
TR109	269 0083 901	Transistor DTA114EK	
TR401,402	273 0253 918	Transistor 2SC2878 (A/B)	
TR403	269 0083 901	Transistor DTA114EK	
TR404	269 0082 902	Transistor DTC114EK	
TR601,602	275 0100 902	FET 2SK771	
TR603	269 0144 905	Transistor DTC114YK	
TR604	269 0083 901	Transistor DTA114EK	
TR609	269 0083 901	Transistor DTA114EK	
TR610,611	269 0082 902	Transistor DTC114EK	
D102,103	276 0679 902	Diode MA152A	
D601,602	276 0679 902	Diode MA152A	
ZD601,602	276 0644 911	Zener diode MTZJ7.5A	
ZD603	276 0693 962	Zener diode UDZ3.6B	

RESISTORS GROUP			
R101,102	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R103	247 2009 967	Carbon chip 8.2kohm 1/16W	RM73B--822J
R104	247 2008 955	Carbon chip 3kohm 1/16W	RM73B--302J
R105	247 2009 912	Carbon chip 5.1kohm 1/16W	RM73B--512J
R106	247 2004 975	Carbon chip 75ohm 1/16W	RM73B--750J
R107-110	247 2004 920	Carbon chip 47ohm 1/16W	RM73B--470J
R111	247 2014 965	Carbon chip 1Mohm 1/16W	RM73B--105J
R112,113	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R115,116	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J
R117	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R119	247 2011 900	Carbon chip 33kohm 1/16W	RM73B--333J
R122-126	247 2012 925	Carbon chip 100kohm 1/16W	RM73B--104J
R127	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J
R128	247 2012 925	Carbon chip 100kohm 1/16W	RM73B--104J
R129-131	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J
R132	247 2009 938	Carbon chip 6.2kohm 1/16W	RM73B--622J
R133,134	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J
R135	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J
R136-145	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J
R147,148	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J
R149	247 2010 943	Carbon chip 18kohm 1/16W	RM73B--183J
R150	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J
R151	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J
R152-154	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J
R155	247 2010 943	Carbon chip 18kohm 1/16W	RM73B--183J
R157-161	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J
R162-167	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R168	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J
R169-171	247 2012 925	Carbon chip 100kohm 1/16W	RM73B--104J
R172	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J
R173-175	247 2012 925	Carbon chip 100kohm 1/16W	RM73B--104J
R176	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
R177	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J
R178	247 2006 960	Carbon chip 470ohm 1/16W	RM73B--471J
R179	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J
R180-183	247 2008 926	Carbon chip 2.2kohm 1/16W	RM73B--222J
R184	247 2013 982	Carbon chip 470kohm 1/16W	RM73B--474J
R185,186	247 2008 926	Carbon chip 2.2kohm 1/16W	RM73B--222J
R187	247 2006 960	Carbon chip 470ohm 1/16W	RM73B--471J
R188	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J
R189,190	247 2006 960	Carbon chip 470ohm 1/16W	RM73B--471J
R191	247 2009 938	Carbon chip 6.2kohm 1/16W	RM73B--622J
R192	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R193	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J
R194-204	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R205	247 2004 920	Carbon chip 47ohm 1/16W	RM73B--470J
R206	247 2014 965	Carbon chip 1Mohm 1/16W	RM73B--105J
R207	247 2011 900	Carbon chip 33kohm 1/16W	RM73B--333J
R208,209	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R210-225	247 2005 903	Carbon chip 100ohm 1/16W	RM73B--101J
R226-231	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R232-247	247 2004 920	Carbon chip 47ohm 1/16W	RM73B--470J
R249	247 2007 901	Carbon chip 680ohm 1/16W	RM73B--681J

Ref. No.	Part No.	Part Name	Remarks
R401-403	247 2009 983	Carbon chip 10kohm 1/16W	RM73B-103J
R404	247 2008 913	Carbon chip 2kohm 1/16W	RM73B-202J
R405	247 2018 903	Carbon chip 0ohm 1/16W	RM73B-0R0K
R406	247 2009 983	Carbon chip 10kohm 1/16W	RM73B-103J
R407	247 2008 968	Carbon chip 3.3kohm 1/16W	RM73B-332J
R408	247 2009 954	Carbon chip 7.5kohm 1/16W	RM73B-752J
R409-412	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B-472J
R413,414	247 2009 967	Carbon chip 8.2kohm 1/16W	RM73B-822J
R415,416	247 2008 900	Carbon chip 1.8kohm 1/16W	RM73B-182J
R417-420	247 2009 912	Carbon chip 5.1kohm 1/16W	RM73B-512J
R421,422	247 2008 900	Carbon chip 1.8kohm 1/16W	RM73B-182J
R423,424	247 2012 925	Carbon chip 100kohm 1/16W	RM73B-104J
R425,426	247 2006 960	Carbon chip 470ohm 1/16W	RM73B-471J
R427,428	247 2018 903	Carbon chip 0ohm 1/16W	RM73B-0R0K
R430	247 2007 943	Carbon chip 1kohm 1/16W	RM73B-102J
R434	247 2007 943	Carbon chip 1kohm 1/16W	RM73B-102J
R435,436	247 2008 926	Carbon chip 2.2kohm 1/16W	RM73B-222J
R601,602	247 2008 984	Carbon chip 3.9kohm 1/16W	RM73B-392J
R603,604	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B-472J
R605,606	247 2010 927	Carbon chip 15kohm 1/16W	RM73B-153J
R607,608	247 2009 938	Carbon chip 6.2kohm 1/16W	RM73B-622J
R609,610	247 2010 927	Carbon chip 15kohm 1/16W	RM73B-153J
R611,612	247 2005 903	Carbon chip 100ohm 1/16W	RM73B-101J
R613,614	247 2012 925	Carbon chip 100kohm 1/16W	RM73B-104J
R615	247 2008 984	Carbon chip 3.9kohm 1/16W	RM73B-392J
R616	247 2009 941	Carbon chip 6.8kohm 1/16W	RM73B-682J
R617	247 2009 925	Carbon chip 5.6kohm 1/16W	RM73B-562J
R618	247 2009 983	Carbon chip 10kohm 1/16W	RM73B-103J
R619	247 2009 967	Carbon chip 8.2kohm 1/16W	RM73B-822J
R620	247 2008 926	Carbon chip 2.2kohm 1/16W	RM73B-222J
R621	247 2005 903	Carbon chip 100ohm 1/16W	RM73B-101J
R622	247 2012 925	Carbon chip 100kohm 1/16W	RM73B-104J
R627,628	247 2012 925	Carbon chip 100kohm 1/16W	RM73B-104J
R629	244 2051 961	Metal oxide 100ohm 1W (NB)	RS14B3A101JNBS (S)
R630	247 2011 942	Carbon chip 47kohm 1/16W	RM73B-473J
R632	244 2051 961	Metal oxide 100ohm 1W (NB)	RS14B3A101JNBS (S)
R633-636	247 2018 903	Carbon chip 0ohm 1/16W	RM73B-0R0K
R666,667	247 2012 925	Carbon chip 100kohm 1/16W	RM73B-104J
R668,669	247 2018 903	Carbon chip 0ohm 1/16W	RM73B-0R0K
R670	247 2008 942	Carbon chip 2.7kohm 1/16W	RM73B-272J
R671	247 2007 914	Carbon chip 750ohm 1/16W	RM73B-751J
R673-676	247 2018 903	Carbon chip 0ohm 1/16W	RM73B-0R0K

CAPACITORS GROUP

C101	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C102	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C103	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C104	[illegible]	[illegible]	[illegible]
C105	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C106	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C107,108	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z

Ref. No.	Part No.	Part Name	Remarks
C109,110	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C111	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C112	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C113,114	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C115	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C116	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C117	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C118	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C119,120	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C121	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C122	256 1058 971	Metallized 0.1uF/50V	CF93A1H104J (JL)
C123	255 1265 936	Mylar film 0.01uF/50V	CQ93M1H103J (B)
C124	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C125	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C126	254 4524 943	Electrolytic 1uF/50V	CE04W1H010M (SMG/RE3)
C127,128	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C129	257 0504 966	Ceramic chip 39pF/50V	CC73CH1H390J
C130	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103K
C131	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C132	257 0504 966	Ceramic chip 39pF/50V	CC73CH1H390J
C133	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C134	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C135	254 4533 934	Electrolytic 220uF/6.3V	CE04WGJ221M (SMG/RE3)
C136,137	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C138	254 4538 900	Electrolytic 10uF/16V	CE04W1C100M (SMG/RE3)
C139	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C140	254 4524 943	Electrolytic 1uF/50V	CE04W1H010M (SMG/RE3)
C141	254 4538 900	Electrolytic 10uF/16V	CE04W1C100M (SMG/RE3)
C142	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C143,144	254 4538 900	Electrolytic 10uF/16V	CE04W1C100M (SMG/RE3)
C145	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C146	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103K
C147,148	254 4524 956	Electrolytic 2.2uF/35V	CE04W1H2R2M (SMG/RE3)
C149	257 0508 917	Ceramic chip 470pF/50V	CC73CH1H471J
C150	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103K
C151	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C152	254 4538 939	Electrolytic 47uF/16V	CE04W1C470M (SMG/RE3)
C157	254 4193 905	Electrolytic 10uF/16V	CE04W1C100M (SRA)
C158-162	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C163	254 4193 905	Electrolytic 10uF/16V	CE04W1C100M (SRA)
C164-170	254 4522 916	Electrolytic 10uF/35V	CE04W1V100M (SMG/RE3)
C171-176	257 0508 959	Ceramic chip 680pF/50V	CC73CH1E681J
C177,178	254 4522 916	Electrolytic 10uF/35V	CE04W1V100M (SMG/RE3)
C179-184	257 0508 959	Ceramic chip 680pF/50V	CC73CH1E681J
C185	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C186	254 4536 928	Electrolytic 100uF/10V	CE04W1A101M (SMG/RE3)
C187	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101J
C188-190	254 4522 916	Electrolytic 10uF/35V	CE04W1V100M (SMG/RE3)
C191	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C192,193	254 4522 916	Electrolytic 10uF/35V	CE04W1V100M (SMG/RE3)
C194	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z

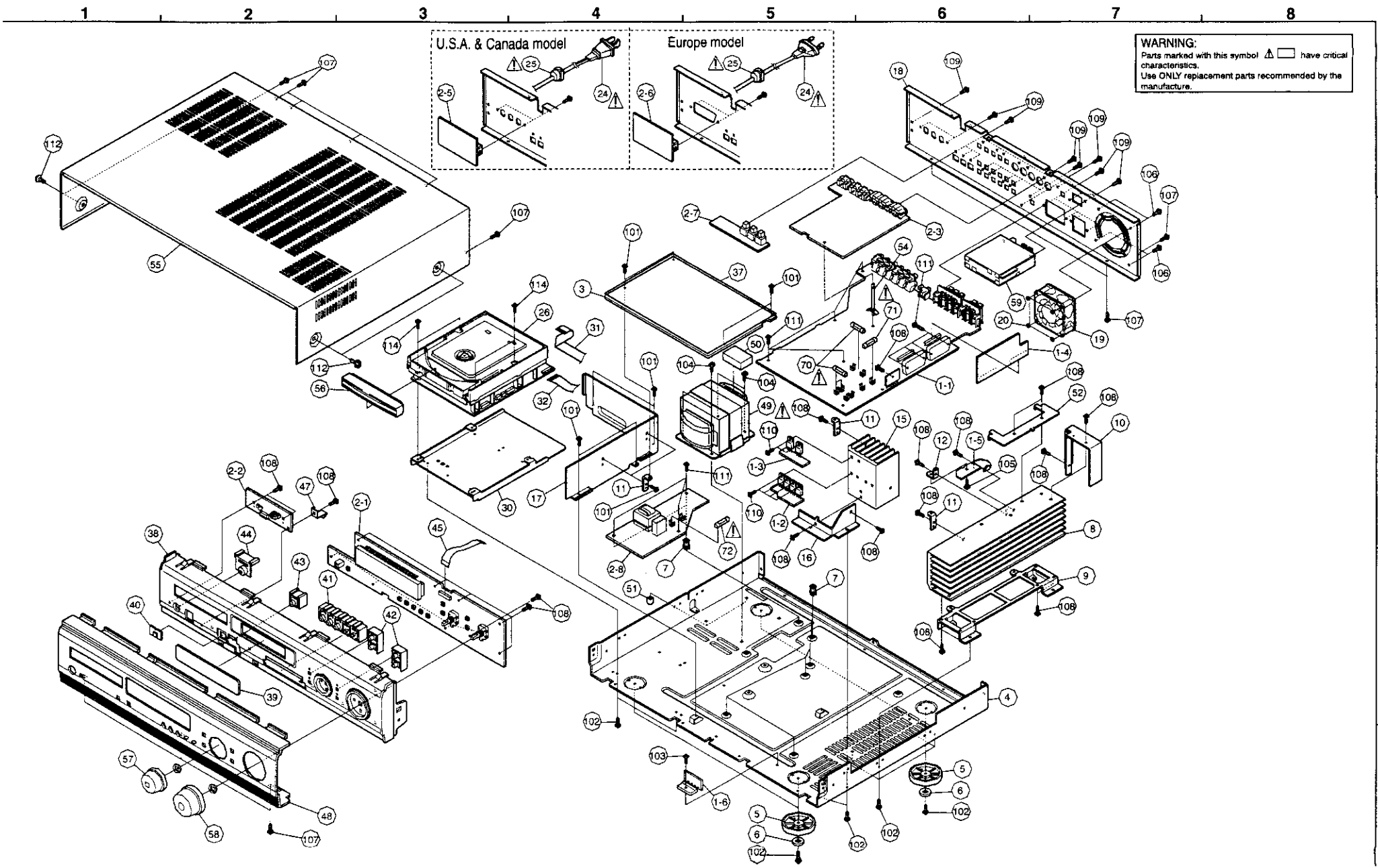
Ref. No.	Part No.	Part Name	Remarks
C195	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101J
C196	254 4522 916	Electrolytic 10uF/35V	CE04W1V100M (SMG/RE3)
C197	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C198-203	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C204	254 4522 916	Electrolytic 10uF/35V	CE04W1V100M (SMG/RE3)
C205-210	257 0510 918	Ceramic chip 3300pF/50V	CK73B1H332K
C211	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C212,213	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101J
C214	254 4524 985	Electrolytic 10uF/50V	CE04W1H100M (SMG/RE3)
C215	254 4524 901	Electrolytic 0.1uF/50V	CE04W1H0R1M (SMG/RE3)
C216,217	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C218,219	254 4541 942	Electrolytic 100uF/25V	CE04W1E101M (SMG/RE3)
C220	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C221	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C222	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C223	257 0507 976	Ceramic chip 330pF/50V	CC73CH1H331J
C401	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C402	254 4213 937	Electrolytic 100uF/6.3V	CE04WGJ101M (SRA)
C403	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C404	254 4193 905	Electrolytic 10uF/16V	CE04W1C100M (SRA)
C405	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C406	254 4193 905	Electrolytic 10uF/16V	CE04W1C100M (SRA)
C407	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104Z
C408	254 4213 937	Electrolytic 100uF/6.3V	CE04WGJ101M (SRA)
C409-412	257 0508 933	Ceramic chip 560pF/50V	CC73CH1H561J
C413-416	257 0507 916	Ceramic chip 180pF/50V	CC73CH1H181J
C419,420	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C421,422	254 4193 947	Electrolytic 100uF/16V	CE04W1C101M (SRA)
C423,424	254 4195 929	Electrolytic 10uF/35V	CE04W1V100M (SRA)
C601,602	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101J
C603,604	257 0511 920	Ceramic chip 0.047uF/50V	CK73F1H473Z
C605,606	257 0504 940	Ceramic chip 33pF/50V	CC73CH1H330J
C607,608	257 0511 920	Ceramic chip 0.047uF/50V	CK73F1H473Z
C609,610	254 4522 916	Electrolytic 10uF/35V	CE04W1V100M (SMG/RE3)
C611	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101J
C612	257 0511 920	Ceramic chip 0.047uF/50V	CK73F1H473Z
C613	254 4524 943	Electrolytic 1uF/50V	CE04W1H010M (SMG/RE3)
C614	257 0511 920	Ceramic chip 0.047uF/50V	CK73F1H473Z
C615	257 0504 982	Ceramic chip 47pF/50V	CC73CH1H470J
C616	254 4522 916	Electrolytic 10uF/35V	CE04W1V100M (SMG/RE3)
C617	254 4536 915	Electrolytic 47uF/10V	CE04W1A470M (SMG/RE3)
C618	257 0510 963	Ceramic chip 8200pF/50V	CK73B1H822K
C619	257 0501 927	Ceramic chip 0.015uF/50V	CK73B1H153K
C624-627	254 4524 969	Electrolytic 3.3uF/50V	CE04W1HR3M (SMG/RE3)
C628	254 4524 927	Electrolytic 0.33uF/50V	CE04W1HR33M (SMG/RE3)
C629	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C630	254 4524 943	Electrolytic 1uF/50V	CE04W1H010M (SMG/RE3)
C631	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103Z
C632,633	254 4524 943	Electrolytic 1uF/50V	CE04W1H010M (SMG/RE3)

Ref. No.	Part No.	Part Name	Remarks
C634,635	254 4524 969	Electrolytic 3.3uF/50V	CE04W1HR3M (SMG/RE3)
C636	257 0501 927	Ceramic chip 0.015uF/50V	CK73B1H153K
C637	254 4524 927	Electrolytic 0.33uF/50V	CE04W1HR33M (SMG/RE3)
C638	257 0510 963	Ceramic chip 8200pF/50V	CK73B1H822K
C639	254 4536 915	Electrolytic 47uF/10V	CE04W1A470M (SMG/RE3)
C677,678	254 4522 916	Electrolytic 10uF/35V	CE04W1V100M (SMG/RE3)

OTHER PARTS GROUP

				Q'ty
CX251	205 1006 093	25P FFC connector base		1
CX271	205 1050 049	27P FFC connector base		1
CY191	205 1006 006	19P FFC connector base		1
FB101-121	235 0130 903	EMI filter (11A121)		21
FB124,125	235 0049 900	Beads inductor		2
FB127-130	235 0049 900	Beads inductor		4
FB131,132	235 0130 903	EMI filter (11A121)		2
FB139	235 0049 900	Beads inductor		1
FB140	235 0130 903	EMI filter (11A121)		1
FB141,142	235 0049 900	Beads inductor		2
FB401	235 0130 903	EMI filter (11A121)		1
FB403	235 0049 900	Beads inductor		1
FB407,408	235 0130 903	EMI filter (11A121)		2
X101	399 0219 021	Crystal 12.288MHz		1
	207 0022 003	IC socket	for IC101	1

EXPLODED VIEW



PARTS LIST OF EXPLODED VIEW

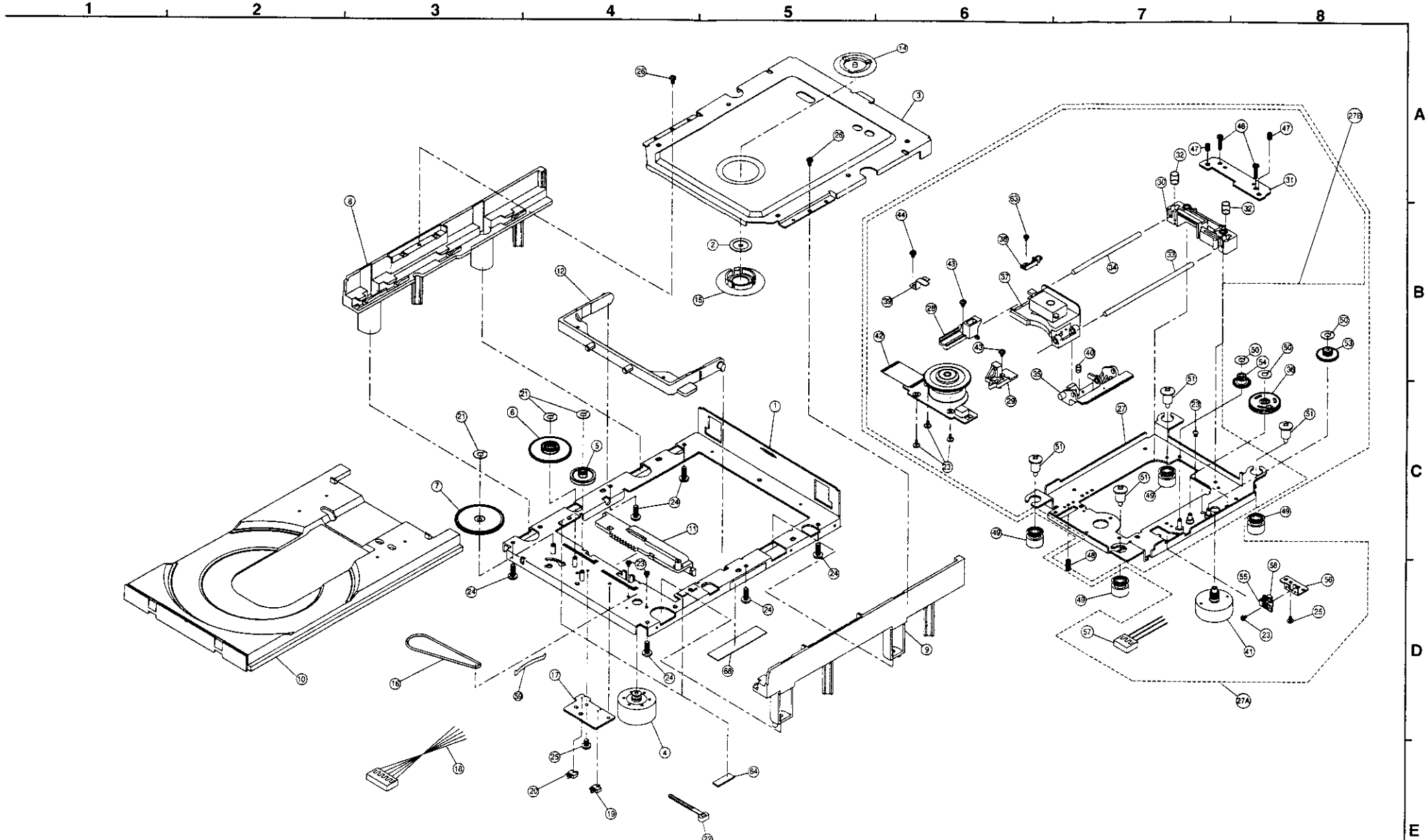
Note: The symbols in the column "Remarks" indicate the following destinations.
E3: U.S.A./Canada model
E2: Europe model

Ref. No.	Part No.	Part Name	Remarks	Q'ty
1	1U-3358	Main P.W.B. unit Ass'y	for E2	1
1	1U-3358A	Main P.W.B. unit Ass'y	for E3	1
1-1		Main P.W.B. unit		1
1-2		Reg. P.W.B. unit		1
1-3		Audio reg. P.W.B. unit		1
1-4		Prot./Fan P.W.B. unit		1
1-5		Posistor P.W.B. unit		1
1-6		D-bridge unit		1
2	1U-3359	Display/Video P.W.B. unit Ass'y	for E2	1
2	1U-3359A	Display/Video P.W.B. unit Ass'y	for E3	1
2-1		Display P.W.B. unit		2
2-2		H/P P.W.B. unit		1
2-3		Video P.W.B. unit		8
2-5		Component P.W.B. unit	for E3	1
2-6		Scart P.W.B. unit	for E2	1
2-7		Opt. P.W.B. unit		1
2-8		Sub trans P.W.B. unit		1
3	1U-3360	DSP P.W.B. unit Ass'y		1
4	411 1984 309	Main chassis		1
5	146 2242 007	Foot		4
6	461 1066 002	Felt		4
7	443 9015 002	P.W.B. spacer		8
8	417 0611 105	Heat sink		1
9	412 4796 005	Heat sink bracket		1
10	412 4791 107	Fan bracket		1
11	412 4792 106	P.W.B. support (A)		4
12	412 4793 008	P.W.B. support (B)		1
★ 13	254 6222 706	Electrolytic 6800uF/35V	CE04W1V682M (DL) for C910	1
★ 14	254 4539 718	Electrolytic 2200uF/16V	CE04W1C222M (SMG/RE3) for C955	1
15	417 0618 001	Heat sink (S)		1
16	412 4824 003	Heat sink bracket (S)		1
17	412 4795 200	Mecha shield bracket		1
18	105 1375 217	Back panel	for E2	1
18	105 1375 220	Back panel	for E3	1
19	421 0771 002	Fan (60x60) 12V		1
20	475 6008 006	4 Nut		4
★ 21	009 0212 002	15P FFC cable		1
★ 22	009 0213 001	17P FFC cable		1
★ 23	204 0555 005	6P shield connector cord		1
⚠ 24	206 2089 106	AC cord	for E2	1
⚠ 24	206 2160 009	AC cord	for E3	1
⚠ 25	445 0056 008	Cord bush		1
26	337 0093 016	DVD drive mecha. unit		1
27	439 0023 104	DVD side chassis (L)		1
28	439 0024 103	DVD side chassis (R)		1
★ 29	009 0186 002	24P FFC cable		1
30	412 4794 104	Mecha bracket		1
31	009 0214 000	17P FFC cable		1
32	009 0215 009	19P FFC cable		1
★ 33	204 2900 001	9P-14P PH connector cord		1
★ 34	204 2901 000	8P-9P PH connector cord		1
★ 35	009 0216 008	27P FFC cable		1
★ 36	009 0217 007	25P FFC cable		1
37	415 0867 005	PVC sheet (DSP)		1
38	146 2243 103	Inner panel		1
39	143 1118 007	Window		1
40	143 1119 006	Remocon filter		1
41	113 1905 002	Knob (5P)		1
42	113 1906 001	Knob (2P)		2
43	113 1907 000	Knob (1P)		1
44	113 1888 006	Power knob Ass'y		1
45	009 0214 013	17P FFC cable		1
★ 46	204 2899 002	8P PH-3P5P PH connector cord		1
47	412 4839 001	Earth plate (H/P)		1
48	144 2763 014	Front panel	for E2	1
48	144 2763 027	Front panel	for E3	1
⚠ 49	233 6381 006	Power trans. (Main)	for E2	1
⚠ 49	233 6382 005	Power trans. (Main)	for E3	1
50	461 1105 002	Trans. pad		1
51	129 0259 000	Screw cap		2
52	412 4802 009	P.W.B. support (C)		1
★ 53	445 8004 007	Wire clamper		8
54	412 4835 005	P.W.B. holder (H=34.9)		1
55	102 0648 205	Top cover		1
56	146 2244 102	Loader panel		1
57	112 0856 007	Volume knob Ass'y		1
58	112 0883 009	Volume knob (S) Ass'y		1
59	216 0108 002	Tuner pack (TFCE1E5)	for E2	1
59	216 0109 001	Tuner pack (TFCE1U5)	for E3	1
★ 60	204 6699 004	11P PH-PH connector cord	for E2	1
★ 61	513 3463 001	Label (laser)	for E2	1
★ 61	513 3406 107	Label (A)	for E3	1
★ 62	513 3677 004	Fuse caution label A	for E3	1
★ 63	513 3678 003	Fuse caution label B	for E3	1
★ 64	513 3628 008	Rating sheet	for E2	1
★ 64	513 3630 009	Rating sheet	for E3	1
★ 65	513 1642 002	No. sheet		1
★ 66	513 3629 007	Notice label		1
★ 67	513 3632 007	Caution label		1
★ 68	513 3639 000	Notice label (FFC)	for E3	1
★ 69	513 3693 004	C/UL label	for E3	1
⚠ 70	206 1075 001	Fuse 1A (F902-904)	for E2	3
	206 1072 004	Fuse 1A (F902-904)	for E3	3
⚠ 71	206 1075 069	Fuse 4A (F901)	for E2	1
	206 1072 075	Fuse 4A (F901)	for E3	1
⚠ 72	206 1075 027	Fuse 1.6A (F905)	for E2	1
	206 1072 046	Fuse 2.5A (F905)	for E3	1
SCREWS				
101	473 7002 005	Screw 3x6 CBTS (S)-Z		15
102	473 7002 034	Screw 3x6 CBTS (S)-B	for E2	19
102	473 7002 034	Screw 3x6 CBTS (S)-B	for E3	17
103	473 7003 017	Screw 3x8 CFTS (S)-B		2
104	473 7004 003	Screw 4x8 CBTS (S)-Z		4
105	473 7005 073	Screw 3x5 CBTS (S)-Z		1
106	473 7007 055	Screw 4x30 CBTS (S)-B		4
107	473 7015 005	Screw 3x6 CBTS (S)-B		15
108	473 7500 015	Screw 3x8 CBTS (P)-Z		36
109	473 7500 044	Screw 3x8 CBTS (P)-B	for E2	24
109	473 7500 044	Screw 3x8 CBTS (P)-B	for E3	26
110	473 7501 001	Screw 3x10 CBTS (P)-Z		6
111	473 7501 014	Screw 3x14 CBTS (P)-Z		12
112	477 0263 018	3P. swelling screw		4
113	473 7506 019	Screw 2x6 CBTS (P)-Z		4
114	473 7001 048	Screw 2.6x8 CBTS (S)-Z		4

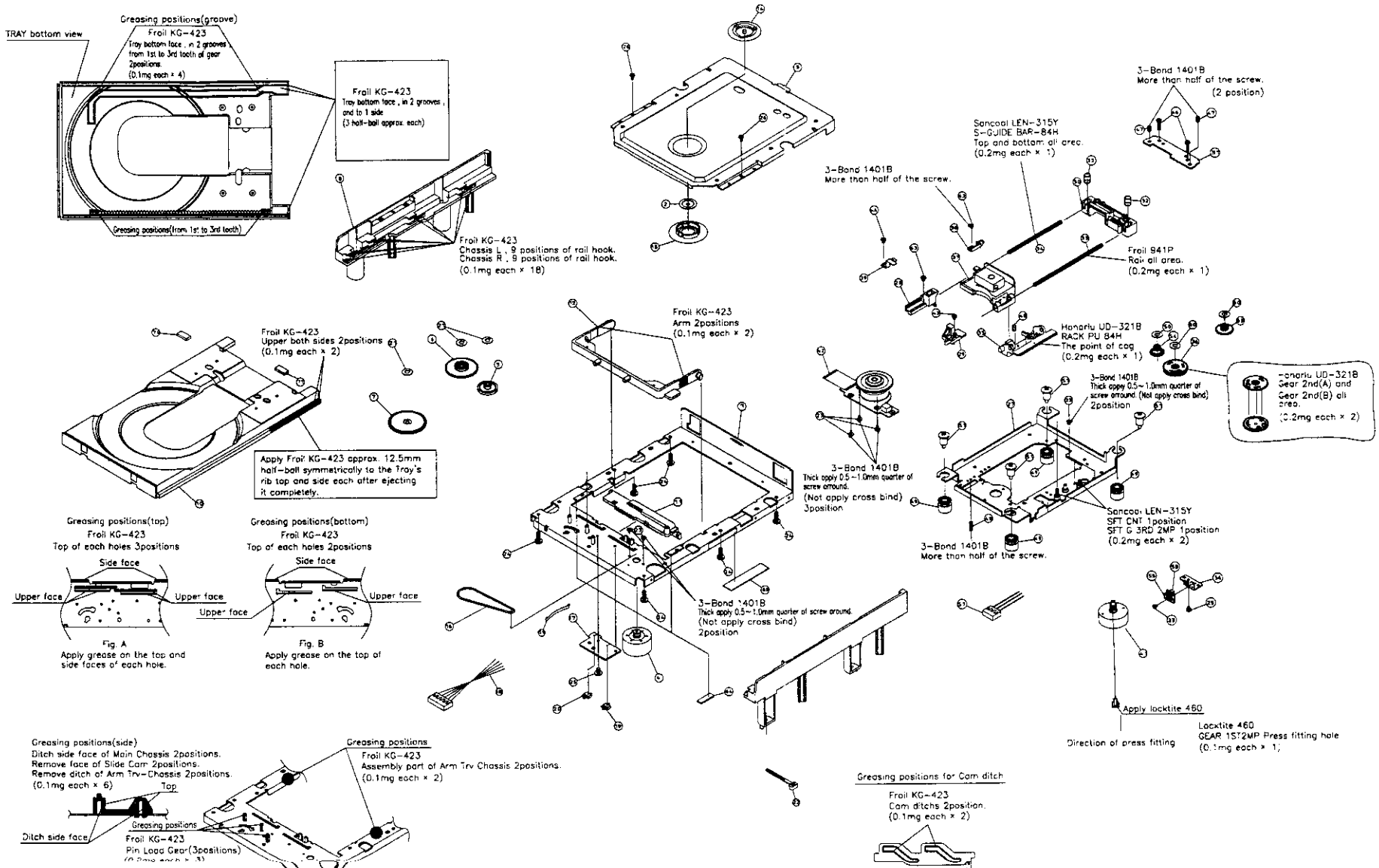
PARTS LIST OF DVD MECHANISM UNIT

Ref. No.	Part No.	Part Name	Remarks	Q'ty
1A	337 0093 016	Mecha unit Ass'y		
1	9KC 1A01 7	Main chassis Ass'y		1
2	9KA 7P08 5	Clamper bracket		1
3	9KC 4P00 7	Guide clamp bracket		1
4	9KC 2A00 3	Loading motor Ass'y		1
5	9KC 2G02 9	Loading gear		1
6	9KB 9G03 0	Loading gear 2nd		1
7	9KB 9G03 1	Loading gear 3rd		1
8	439 0023 007	Sub chassis-L		1
9	439 0024 006	Sub chassis-R		1
10	9KA 2G39 9	Tray		1
11	9KC 1G00 3	Slide-cam		1
12	9KC 1G00 4	Traverse arm		1
14	9KA 7G20 2	Clamper H		1
15	9KA 7G13 0	Clamper L		1
16	9KB 9G01 5	Loading belt		1
17	9KC 1P01 4	Switch P.W.B.		1
18	9KC 2G04 3	5P PH wire		1
19	9KS 01W1 97	Switch ESE22MH11		
20	9KS 01W1 98	Switch ESE22MH3		1
21	9KP 26C6 25	Poly.slit washer 2.6x6x0.25C		3
22	445 8004 007	Wire clamper		1
23	9KS 17N0 22	Precision screw 1.7x2.2 type3		2
24	9KB 26BK 06	Screw 2.6x6 CBTS(B)-Z		6
26	473 7506 019	Screw 2x6 CBTS(P)-Z		2
27A	9KC A020 A	Traverse mecha (feed) Ass'y	Assembled part	1
27B	9KC A021 A	Traverse mecha Ass'y	Assembled part	1
23	—	Precision screw 1.7x2.2 type3	For spindle motor	
27	—	PU chassis Ass'y		
28	—	Shaft holder L		
29	—	Shaft holder R		
30	—	Shaft tilt base		
31	—	Shaft tilt plate		
32	—	Tilt spring		
33	—	Main shaft		
34	—	Sub shaft		
35	—	PU rack gear		
37	—	Pick up HOP-1000		
38	—	PU spring		
39	—	Shaft spring		
40	—	Rack gear spring		
42	—	T/T motor Ass'y		
43	—	Screw 2.6x6 CBTS(S)-Z		
44	—	Screw 2.6x4 CBTS(S)-Z		
46	—	Screw 2.6x15 CFTS(S)-Z		
47	—	Screw 3x4 BSS		
63	—	Precision screw 1.7x3.5 type3		
23	—	Precision screw 1.7x2.2 type3		
25	—	Precision screw 2x3(S) type3		
36	—	Feed gear 2nd Ass'y		
41	—	Feed motor Ass'y		
50	—	Poly.slit washer 2.1x4x0.25C		
53	—	Feed gear 3rd		
54	—	Feed counter		
55	—	Sensor P.W.B.		
56	—	Sensor bracket		
57	—	3P PH wire		
58	—	Photo interupter GP1S093HCZ		
48	474 4302 002	Screw 3x8 BSS (A)		1
49	9KC 1G04 3	Damper		4
51	9KC 1H01 1	Special screw		4
59	9KB 7P02 4	Tray-spring-VXF		1
63	9KS 17N0 35	Precision screw 1.7x3.5 type3		1
64	9KC 1G04 2	Rubber cushion		2
66	—	Tape W10x30 (NITTO No.156)		1

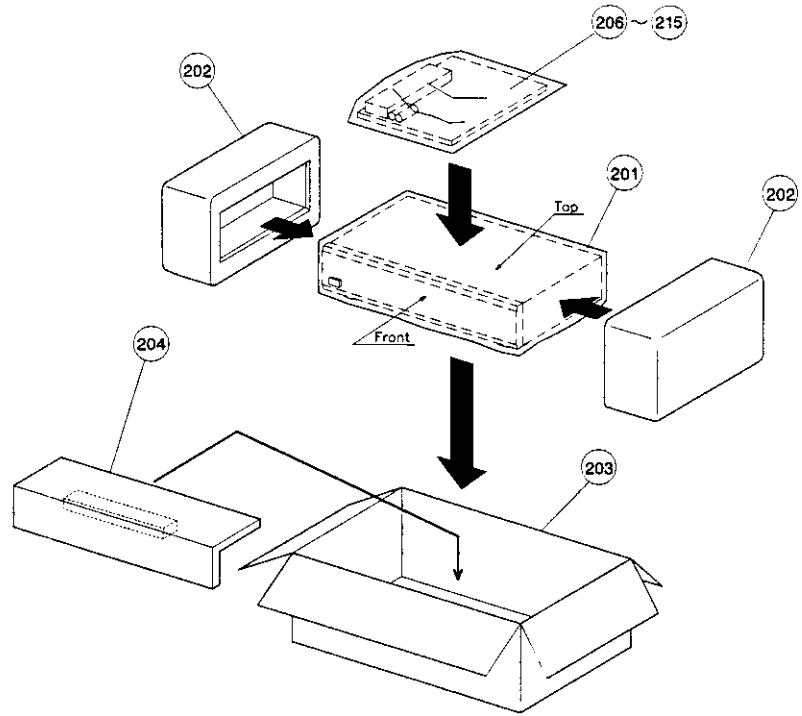
EXPLODED VIEW OF DVD MECHANISM



POINTS OF GREASING



PACKING VIEW

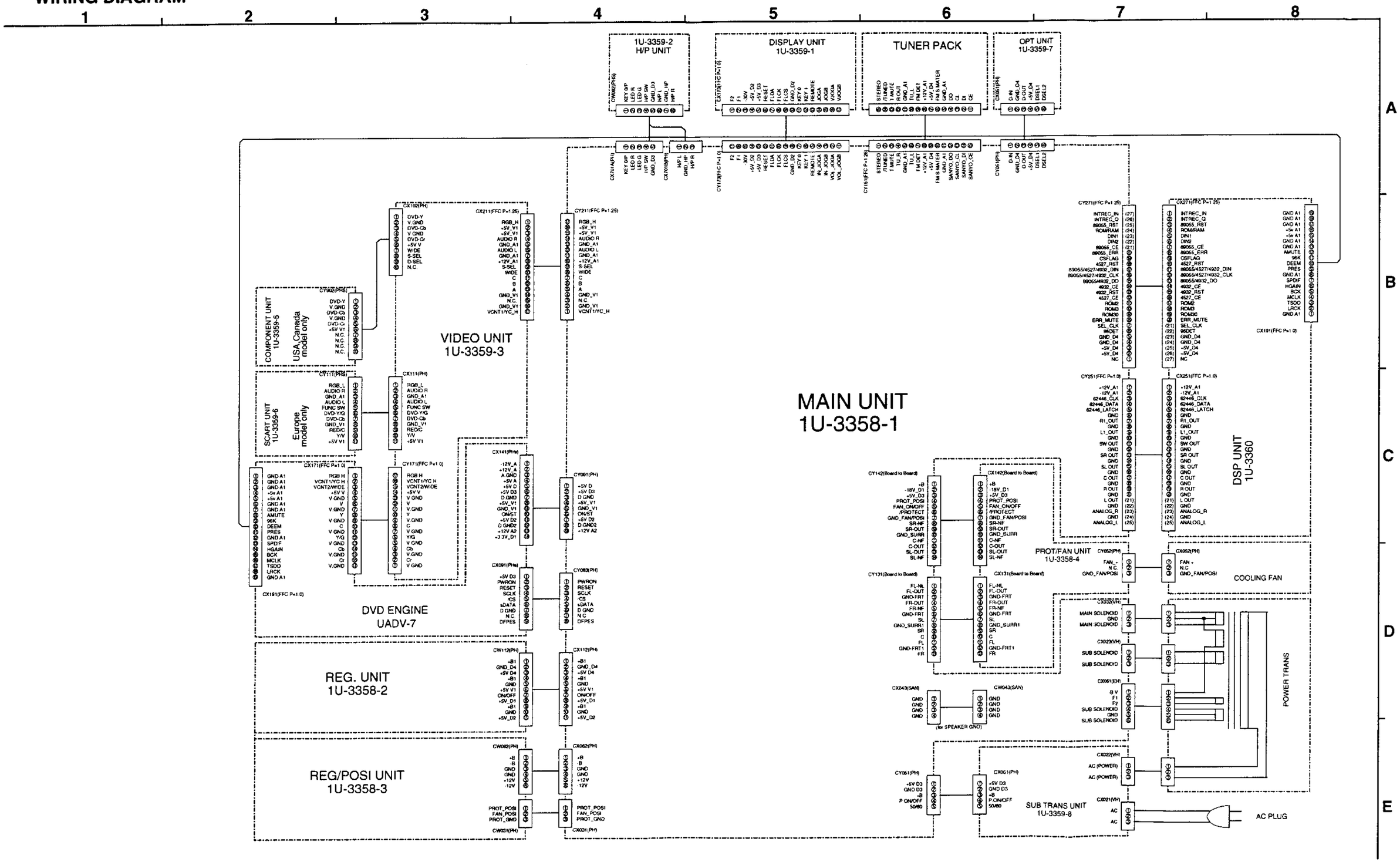


PARTS LIST OF PACKING & ACCESSORIES

Note: The symbols in the column "Remarks" indicate the following destinations.
E3: U.S.A./Canada model
E2: Europe model

Ref. No.	Part No.	Part Name	Remarks	Q'ty
201	505 8092 010	Laminate envelope		1
202	503 1388 107	Cushion		2
203	501 2138 101	Carton case	for E2	1
203	501 2138 127	Carton case	for E3	1
204	503 1409 002	Sub cushion		1
206	505 0038 030	Poly. cover		1
207	511 3774 008	Instruction manual	for E2	1
207	511 3775 007	Instruction manual	for E3	1
208	515 0867 101	S.S. list (EX)		1
209	511 3842 008	Inst. Sheet		1
210	231 0922 009	Loop antenna		1
211	395 0026 005	FM antenna wire		1
212	529 0079 008	FM antenna adapter		1
213	399 0746 002	Remote controller RC-901	for E2	1
213	399 0747 001	Remote controller RC-902	for E3	1
214	—	Battery (R06x2)		1
215	203 0380 002	1P pin cord (video)		1
★ 216	515 0690 404	DEL warranty home		1
★ 217	517 1437 015	E2 POS label	for E2	1
★ 217	517 1433 064	UPC label	for E3	1

WIRING DIAGRAM



MEASURING METHOD AND WAVEFORMS

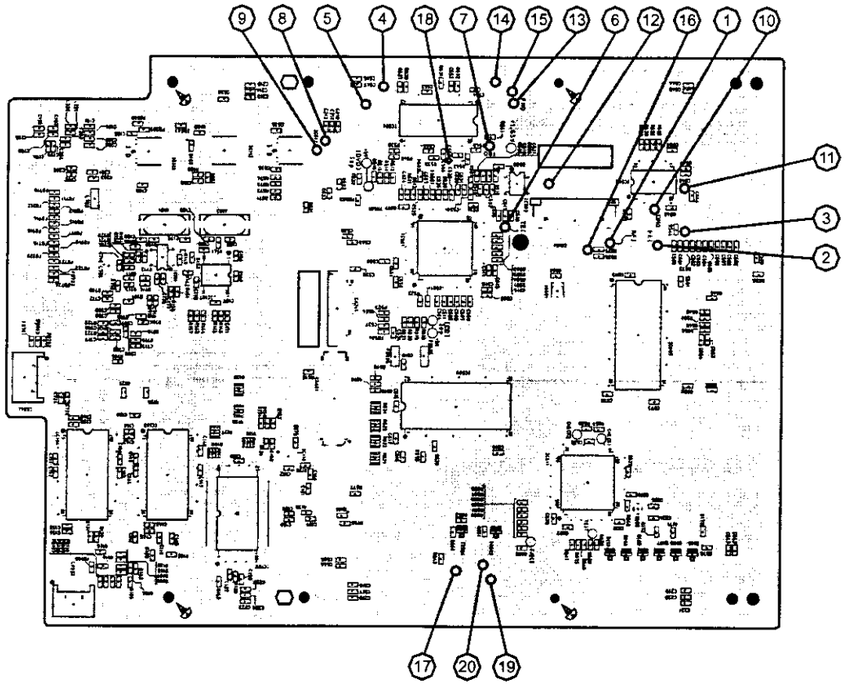
To check the waveforms on the Servo P.W.B., the GND (−) probe of the oscilloscope to "Vref" point.
(Except for Inner SW, TRVSW)

NOTES

Measuring Disc: DVD/DVDT-S01
CD/TCD-784

(It is better to use wires for extending between the probe and test points.)

- When watching the HF waveform, use the extending wire as short as possible.
- When HF waveform is noisy or cannot discriminate the eye-pattern, replace the Traverse Unit after measuring the Iop.
- ① ~ ⑳ points have the certain test points shown below.

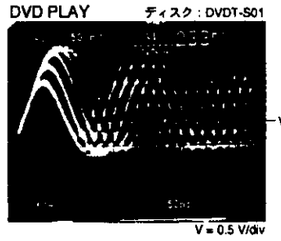


DVD Main P.W.B. Unit foil side

WAVE FORMS

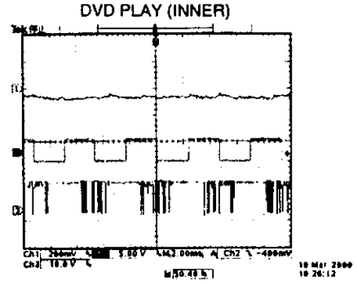
DVD PLAY ディスク : DVDT-S01

① HF (RFI)



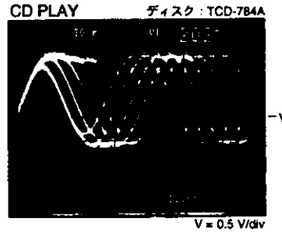
DVD PLAY (INNER)

⑩ DMO
⑪ FG
⑫ A3



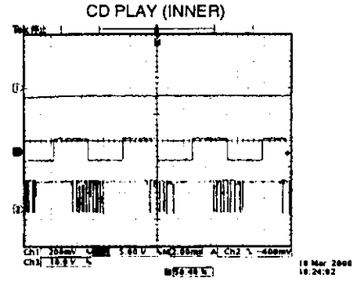
CD PLAY ディスク : TCD-784A

① HF (RFI)



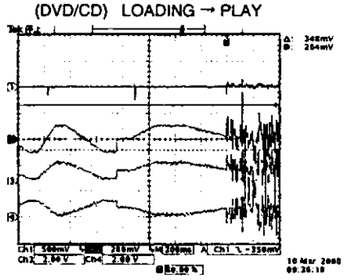
CD PLAY (INNER)

⑩ DMO
⑪ FG
⑫ A3



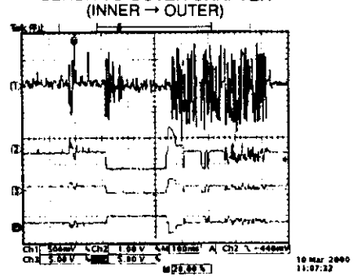
(DVD/CD) LOADING → PLAY

② FEI
③ FOO
④ FO+
⑤ FO−



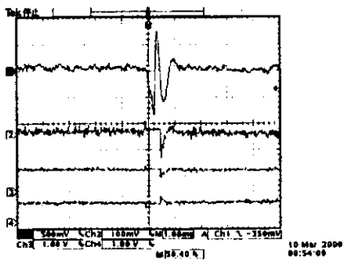
SERCH TO OUTER CHAPTER (INNER → OUTER)

⑥ TEI
⑬ FMO
⑭ FM−
⑮ FM+



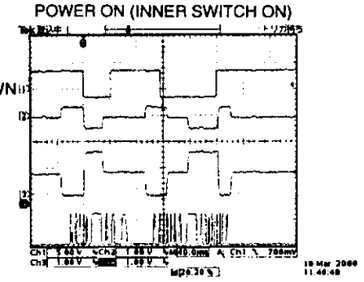
DVD PLAY

⑥ TEI
⑦ TRO
⑧ TR+
⑨ TR−



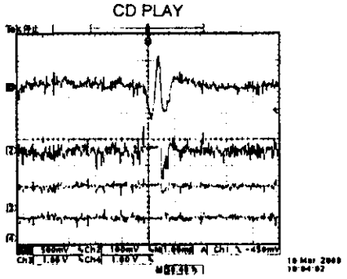
POWER ON (INNER SWITCH ON)

⑯ INSWN
⑬ FMO
⑭ FM+
⑰ OUT



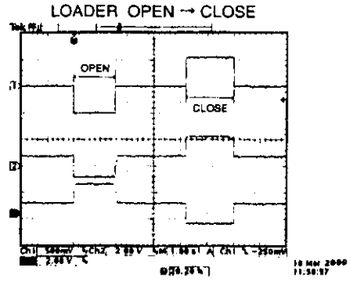
CD PLAY

⑥ TEI
⑦ TRO
⑧ TR+
⑨ TR−

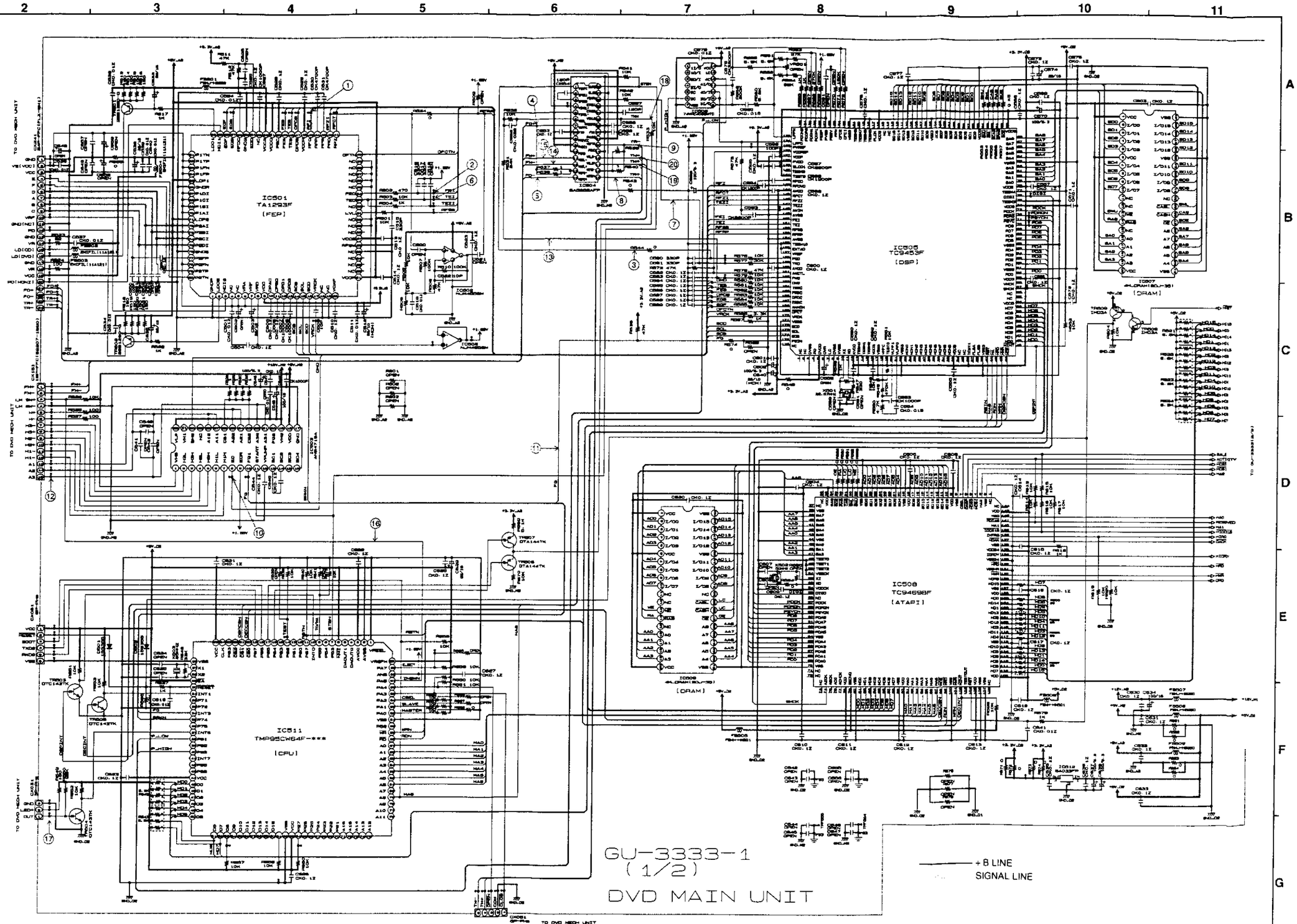


LOADER OPEN → CLOSE

⑱ TMM
⑲ TM+
⑳ TM−



SCHEMATIC DIAGRAMS(1/8)



NOTICE
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASUERD AT MO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

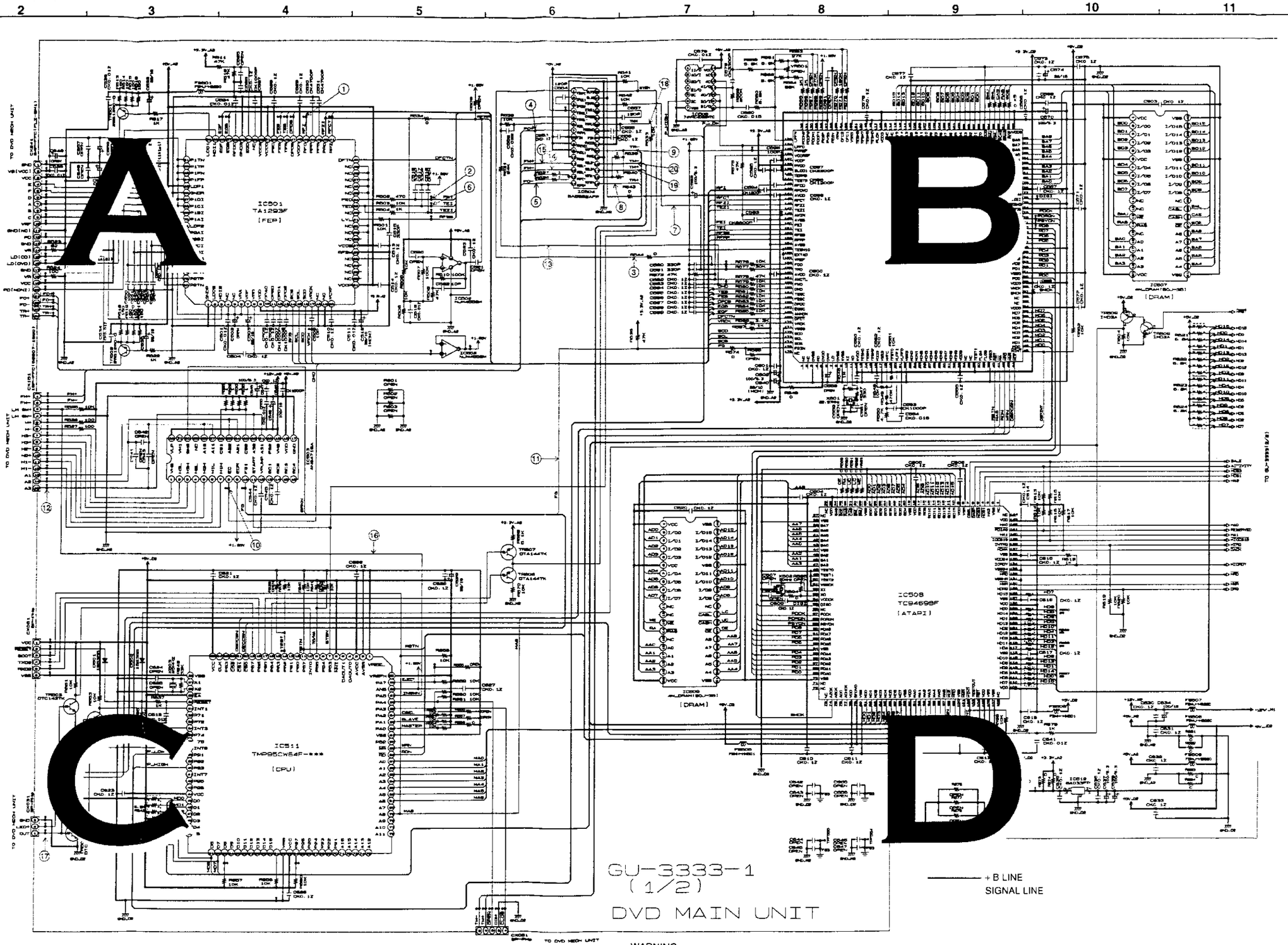
WARNING
Parts marked with this symbol ⚠ have critical characteristics.
Use ONLY replacement parts recommended by the manufacture.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

WARNING
DO NOT return the unit to the customer until the problem is located and corrected.

SCHEMATIC DIAGRAMS(1/8)
GU-3333-1 DVD MAIN UNIT (1/2)

SCHEMATIC DIAGRAMS(1/8)



NOTICE
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASUERD AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

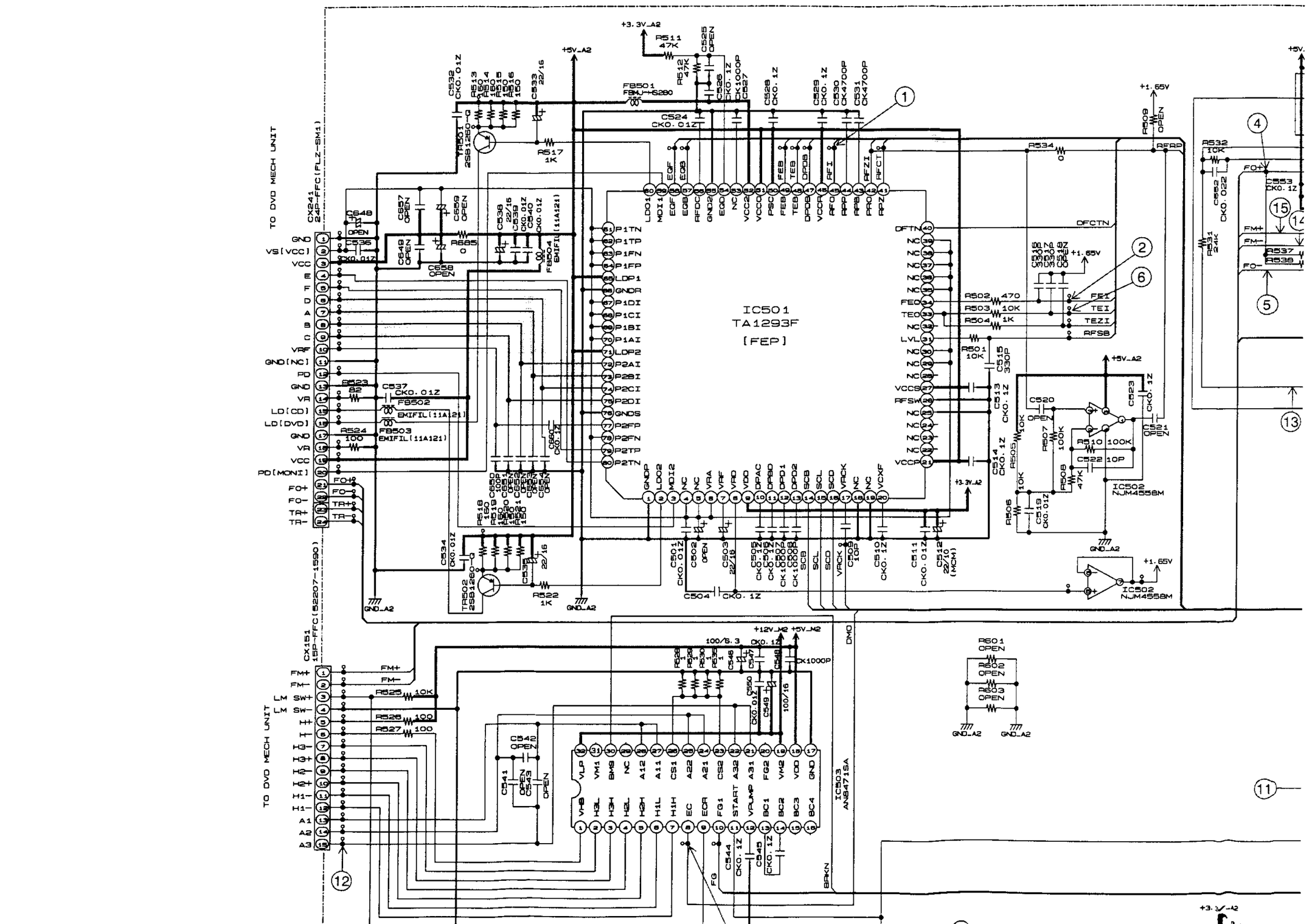
WARNING
Parts marked with this symbol ⚠ have critical charactenstics.
Use ONLY replacement parts recommended by the manufacture.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

WARNING
DO NOT return the unit to the customer until the problem is located and corrected.

SCHEMATIC DIAGRAMS(1/8)
GU-3333-1 DVD MAIN UNIT (1/2)

SCHEMATIC DIAGRAMS(1/8)



6 7 8 9 10 11

A B C D

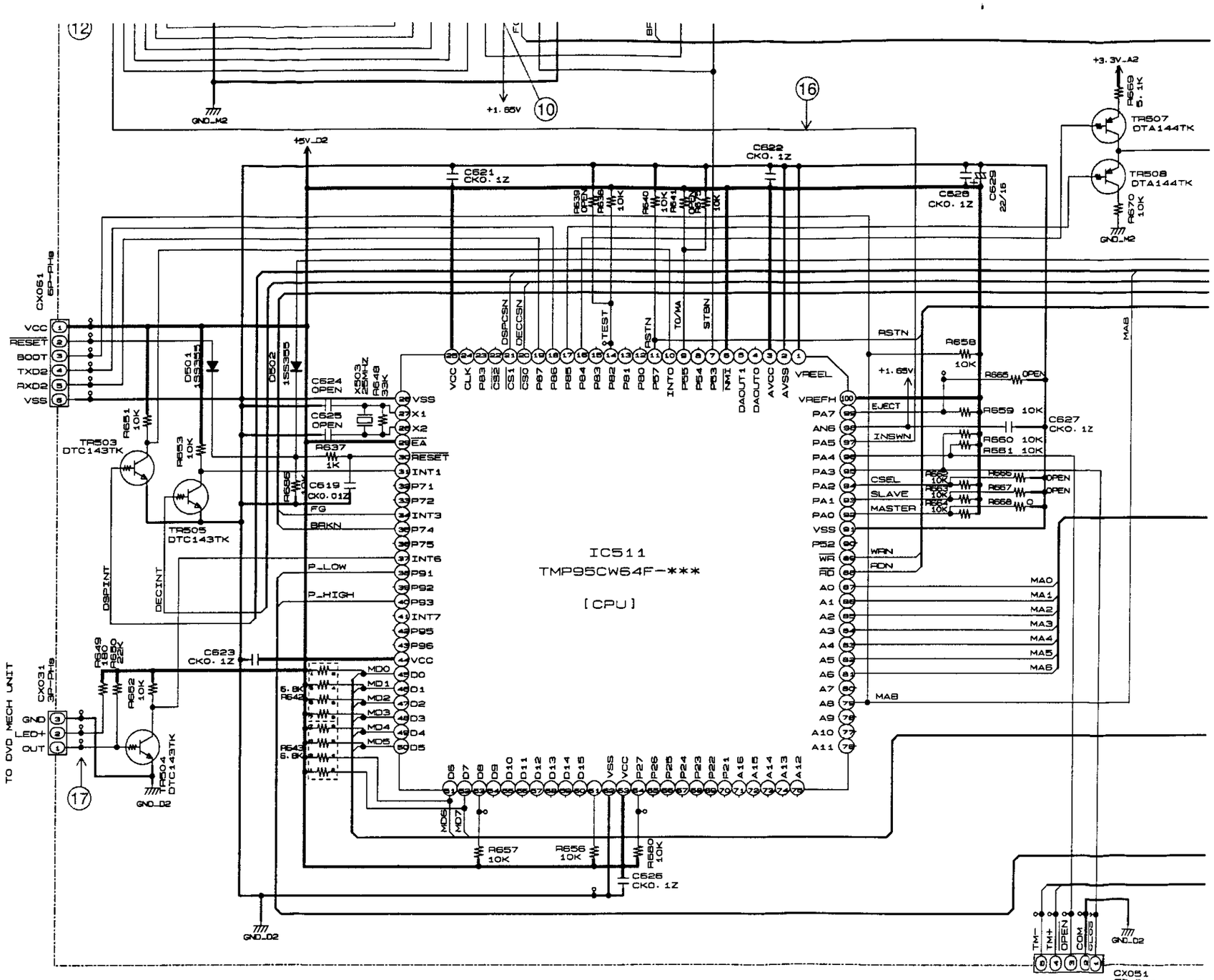
IC505
TC9453F
[DSP]

IC507
4M_DRAM(SOJ-35)
[DRAM]

IC504
BA5952AFP

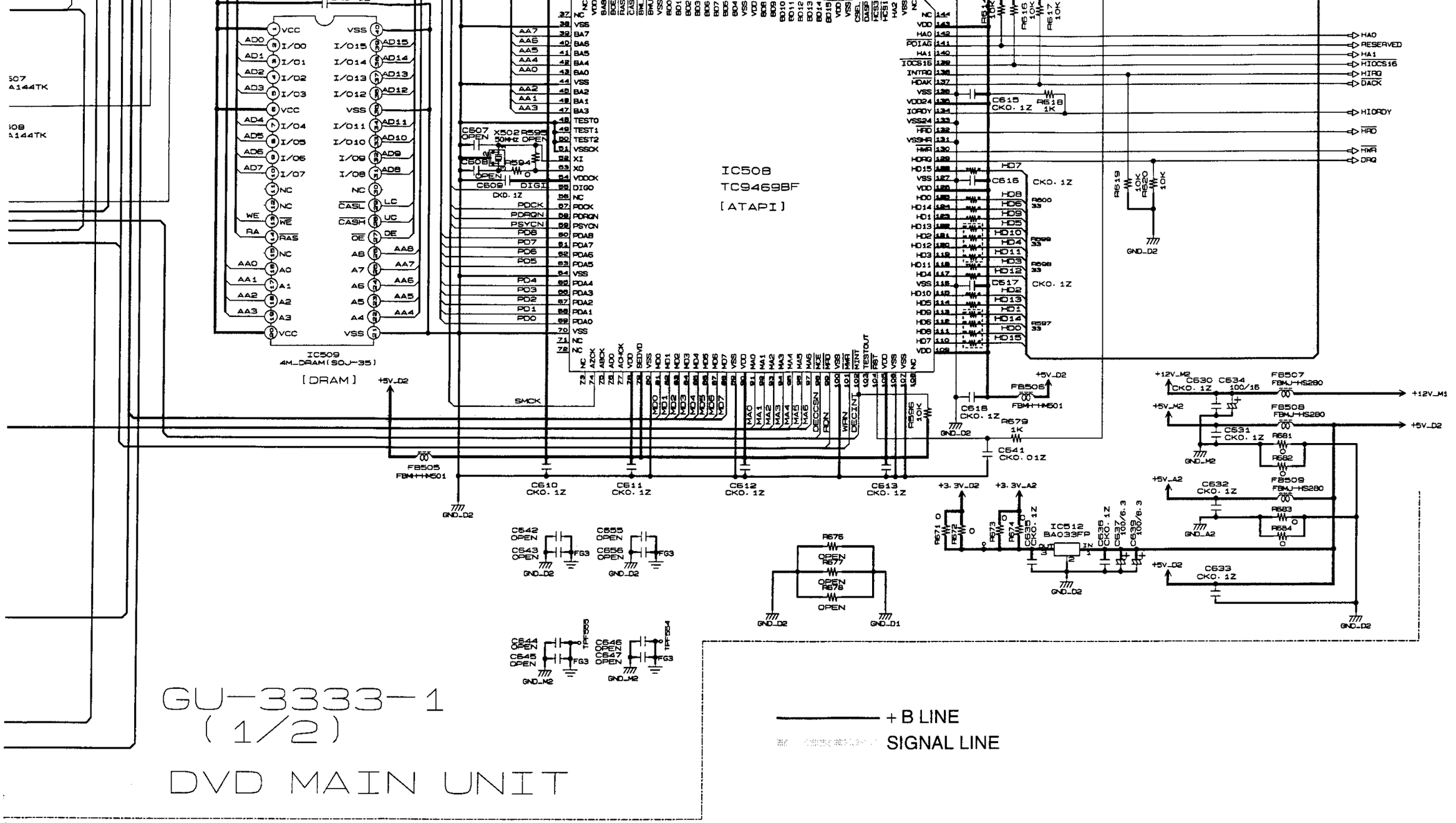
IC506
74VHC4066MTC

TO GU-3333(2/2)



NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000
ALL CAPACITANCE VALUES IN MICRO FARAD. P= MICRO-MICI
EACH VOLTAGE AND CURRENT ARE MEASUERD AT MO SIGN
CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT F
NOTICE.



GU-3333-1 (1/2)

DVD MAIN UNIT

+ B LINE

SIGNAL LINE

000,000 OHM
RO-MICRO FARAD
/O SIGNAL INPUT

HOUT PRIOR

WARNING

Parts marked with this symbol ⚠ have critical characteristics.
Use ONLY replacement parts recommended by the manufacture.

CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

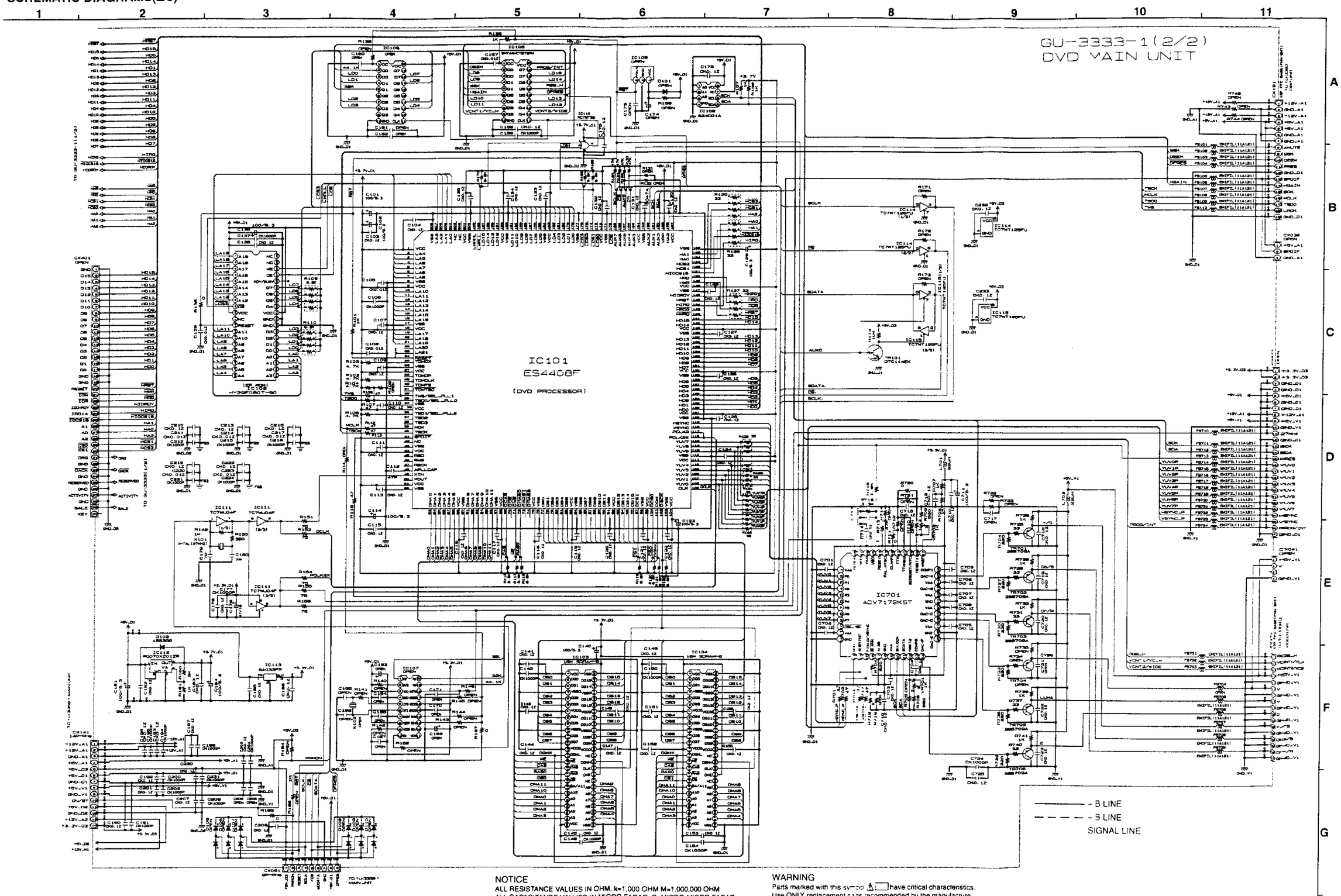
WARNING

DO NOT return the unit to the customer until the problem is located and corrected.

SCHEMATIC DIAGRAMS(1/8)

GU-3333-1 DVD MAIN UNIT (1/2)

SCHEMATIC DIAGRAMS(2/8)



NOTICE
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASUERD AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

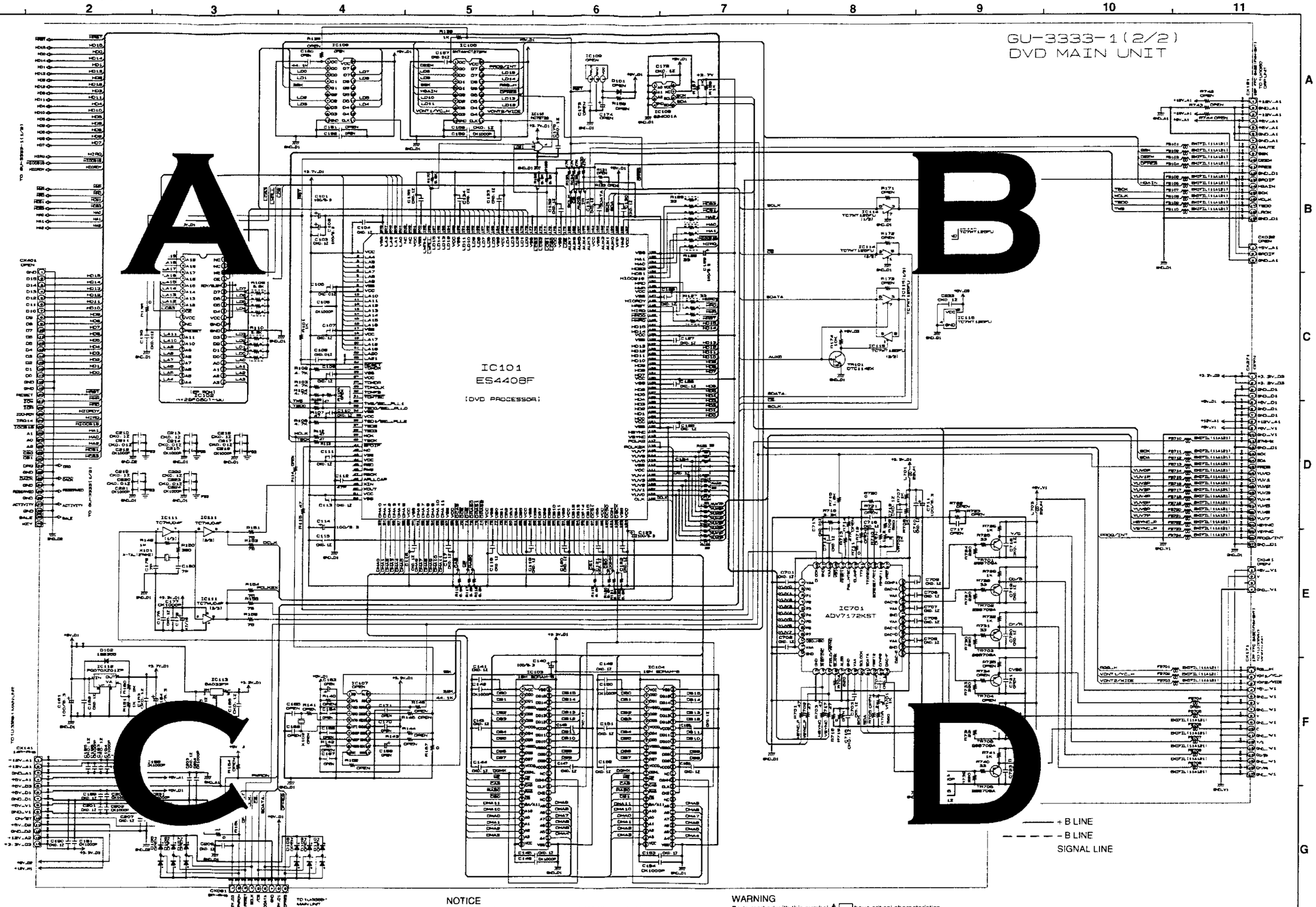
WARNING
Parts marked with this symbol ⚠ have critical characteristics.
Use ONLY replacement parts recommended by the manufacture.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

WARNING
DO NOT return the unit to the customer until the problem is located and corrected

SCHEMATIC DIAGRAMS(2/8)
GU-3333-1 DVD MAIN UNIT (2/2)

SCHEMATIC DIAGRAMS(2/8)



NOTICE
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASUERD AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

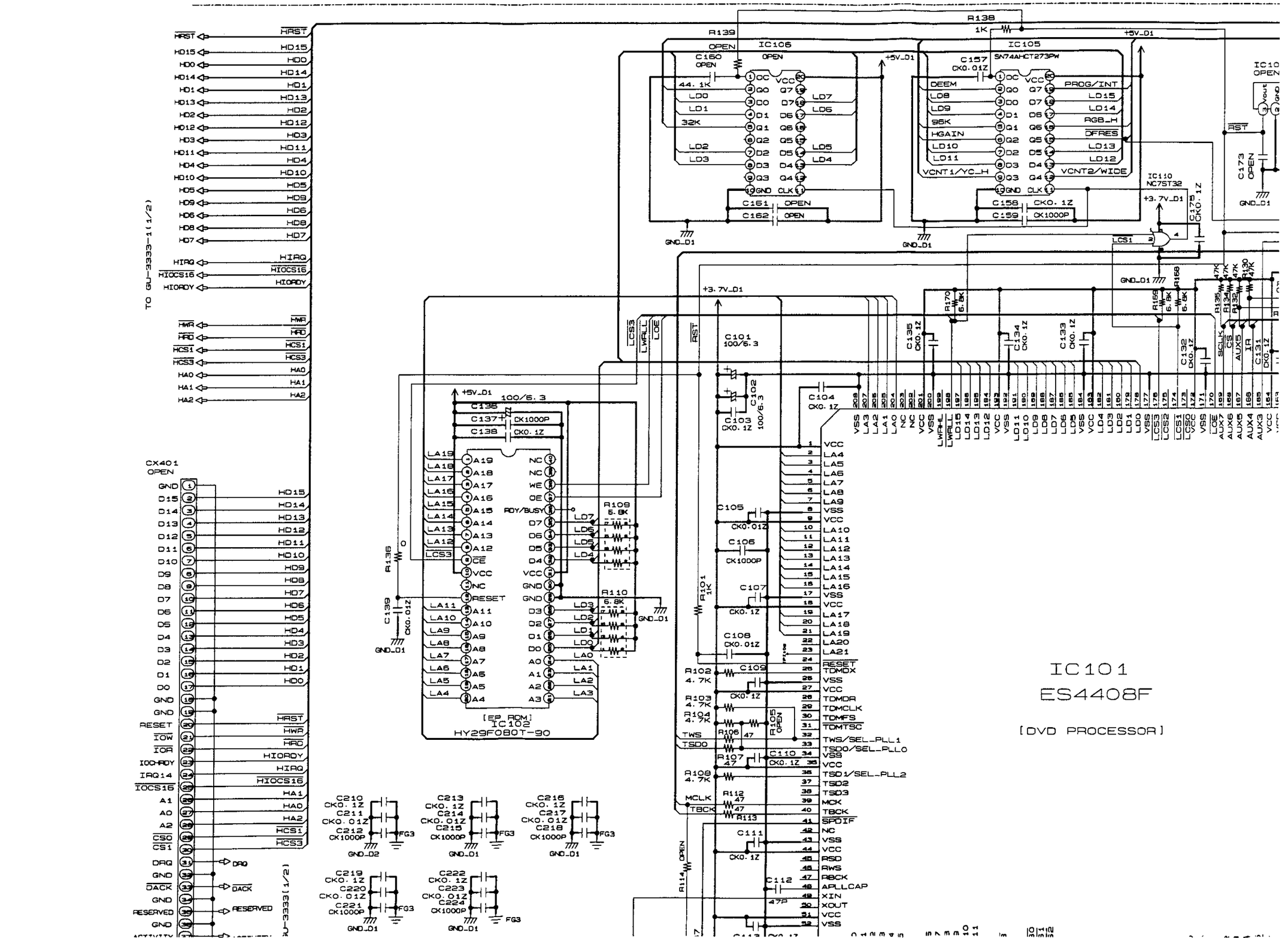
WARNING
Parts marked with this symbol ⚠ have critical characteristics.
Use ONLY replacement parts recommended by the manufacture.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

WARNING
DO NOT return the unit to the customer until the problem is located and corrected.

SCHEMATIC DIAGRAMS(2/8)
GU-3333-1 DVD MAIN UNIT (2/2)

SCHEMATIC DIAGRAMS(2/8)



GU-3333-1(2/2)
DVD MAIN UNIT

6 7 8 9 10 11

A B C D

IC109 OPEN
C173 OPEN
C174 OPEN
D101 OPEN
R159 OPEN
C172 CKO. 1Z
IC108 S24C01A
R157 1K
R156 1K
+3.7V
+5V_D1
GND_D1

R131 OPEN
R133 OPEN
R132 47K
R130 47K
C131 CKO. 1Z
C130 CKO. 1Z
SDATA
SCK
SDA
DFRES

R129 33
R128 33
R127 33
C129 100/6.3
C128 CKO. 1Z
C127 CKO. 1Z
C126 CKO. 1Z
C125 CKO. 1Z
C124 CKO. 1Z
R126 33
R125 33
R124 33
HCS3
HCS1
HA2
HA0
HA1
HIOCS16
HIRQ
HIORDY
HRST
HWR
HRD
HD15
HD14
HD13
HD12
HD11
HD10
HD9
HD8
HD7
HD6
HD5
HD4
HD3
HD2
HD1
HD0
DCLK
YUV7P

SCLK
CS
SDATA
AUX5
SDATA.
CS.
SCLK.

R171 OPEN
R172 OPEN
R173 OPEN
IC114 TC7WT125FU (1/2)
IC114 TC7WT125FU (2/2)
IC115 TC7WT125FU (1/2)
IC115 TC7WT125FU (2/2)
R174 10K
TR101 DTC114EK
C232 CKO. 1Z
C233 CKO. 1Z
+5V_D3
GND_D1

L701 22UH
R715 1.8K
R720
R707 1K
C711 100/6.3
+3.3V_D1
+5V_V1
R722

R742 OPEN
R743 OPEN
R744 OPEN
+12V_A1
-12V_A1
+5V_A1
GND_A1
GND_D1

CX191 19P FFC BASE(FMT-SMT) TO 1U-3360 DSP UNIT
+12V_A1
GND_A1
-12V_A1
+5V_A1
+5V_A1
GND_A1
GND_A1
AMUTE
96K
DEEM
PRES
GND_D1
SPDIF
HGAIN
BCK
MCLK
TSDO
LRCK
GND_D1

FB101 EMIFIL(11A121)
FB102 EMIFIL(11A121)
FB103 EMIFIL(11A121)
FB104 EMIFIL(11A121)
FB105 EMIFIL(11A121)
FB106 EMIFIL(11A121)
FB107 EMIFIL(11A121)
FB108 EMIFIL(11A121)
FB109 EMIFIL(11A121)
FB110 EMIFIL(11A121)

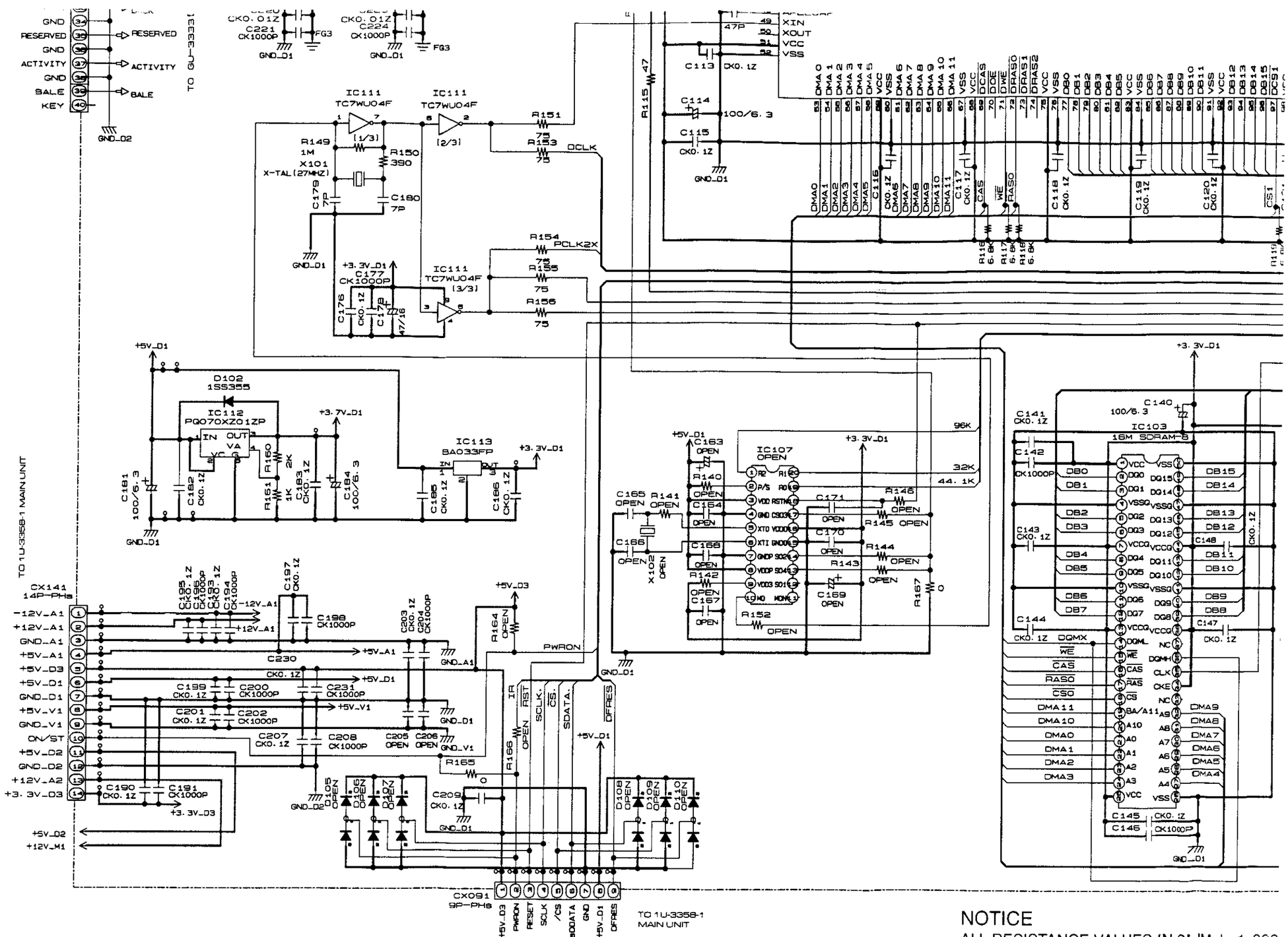
96K
DEEM
DFRES
HGAIN
TBCK
MCLK
TSDO
TWS

CX032 OPEN
+5V_A1
SPDIF
GND_A1

CX271 OPEN
+3.3V_D3
+3.3V_D3
GND_D1
GND_D1
+5V_D1
+5V_D1
GND_D1
GND_D1
+12V_A1
+5V_V1
GND_V1
27MHz
GND_D1
SCK
SDA
PRES
YUV0
YUV1
YUV2
YUV3
YUV4

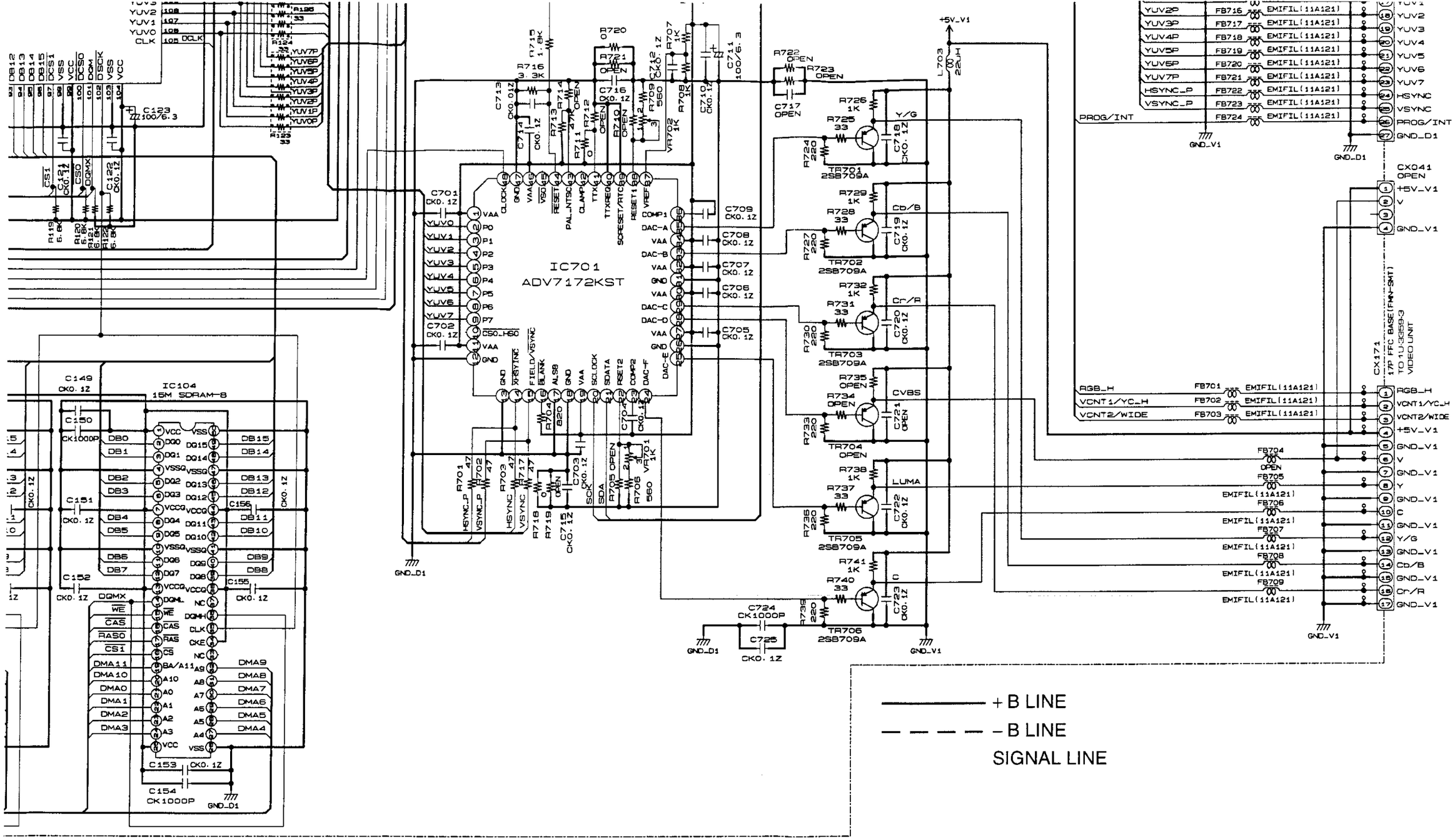
FB710 EMIFIL(11A121)
FB711 EMIFIL(11A121)
FB712 EMIFIL(11A121)
FB713 EMIFIL(11A121)
FB714 EMIFIL(11A121)
FB715 EMIFIL(11A121)
FB716 EMIFIL(11A121)
FB717 EMIFIL(11A121)
FB718 EMIFIL(11A121)
FB719 EMIFIL(11A121)

SCK
SDA
YUV0P
YUV1P
YUV2P
YUV3P
YUV4P
YUV5P



NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000
ALL CAPACITANCE VALUES IN MICRO FAR/
EACH VOLTAGE AND CURRENT ARE MEAS
CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CH
NOTICE.



k=1,000 OHM M=1,000,000 OHM
RO FARAD. P=MICRO-MICRO FARAD
E MEASUERD AT MO SIGNAL INPUT

' TO CHANGE WITHOUT PRIOR

WARNING

Parts marked with this symbol ⚠ ▭ have critical characteristics.
Use ONLY replacement parts recommended by the manufacture.

CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

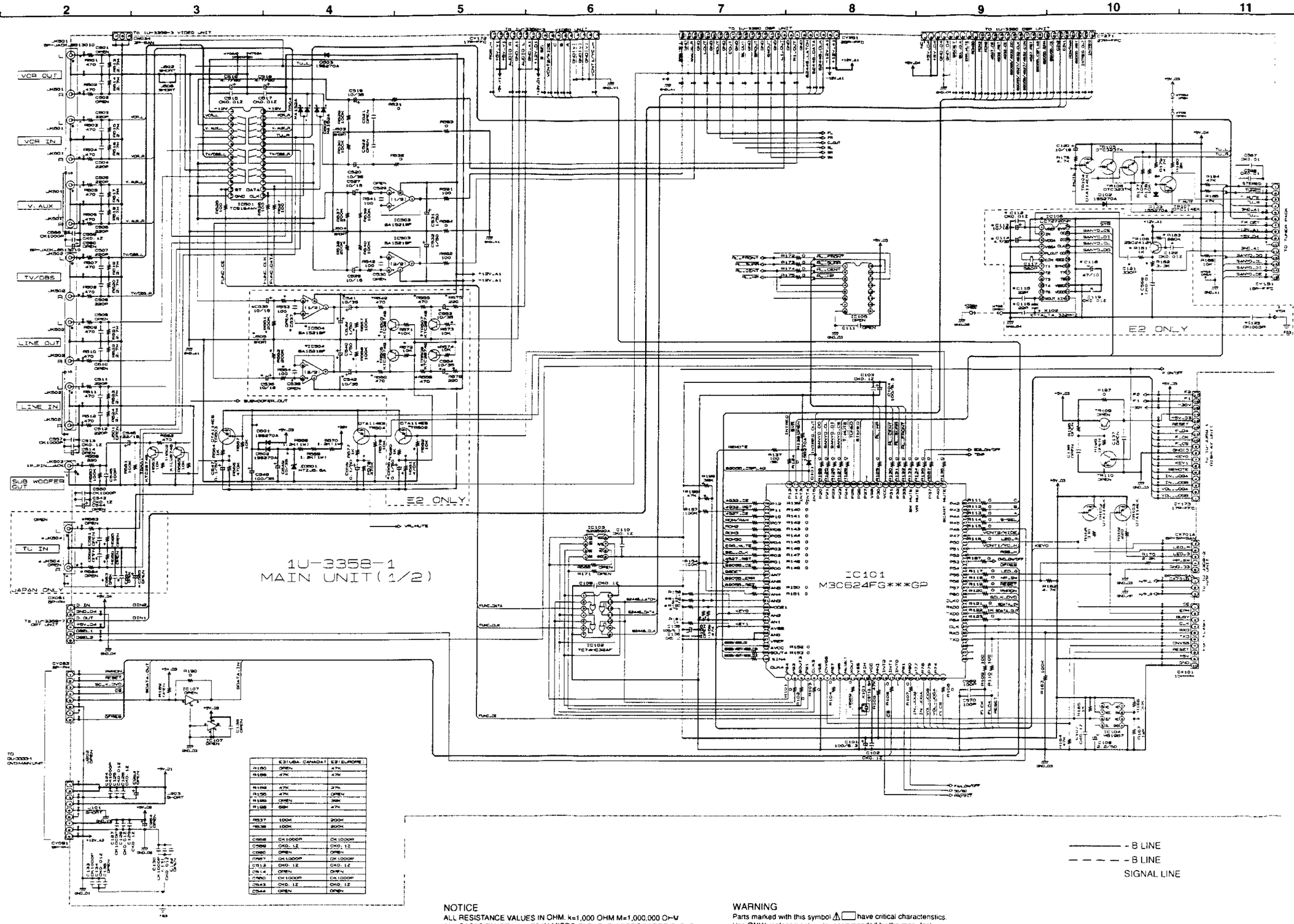
WARNING

DO NOT return the unit to the customer until the problem is located and corrected.

SCHEMATIC DIAGRAMS(2/8)

GU-3333-1 DVD MAIN UNIT (2/2)

SCHEMATIC DIAGRAMS(3/8)



	E3	USA, CANADA	E2	EUROPE
R180		OPEN		47K
R186		47K		47K
R192		47K		27K
R195		47K		OPEN
R189		OPEN		39K
R188		68K		47K
R537		100K		200K
R538		100K		200K
C868		CK1000P		CK1000P
C869		CKD. 1Z		CKD. 1Z
C880		OPEN		OPEN
C867		CK1000P		CK1000P
C812		CKD. 1Z		CKD. 1Z
C814		OPEN		OPEN
C880		CK1000P		CK1000P
C843		CKD. 1Z		CKD. 1Z
C844		OPEN		OPEN

NOTICE
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASUERD AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING
Parts marked with this symbol ⚠ have critical characteristics.
Use ONLY replacement parts recommended by the manufacture.

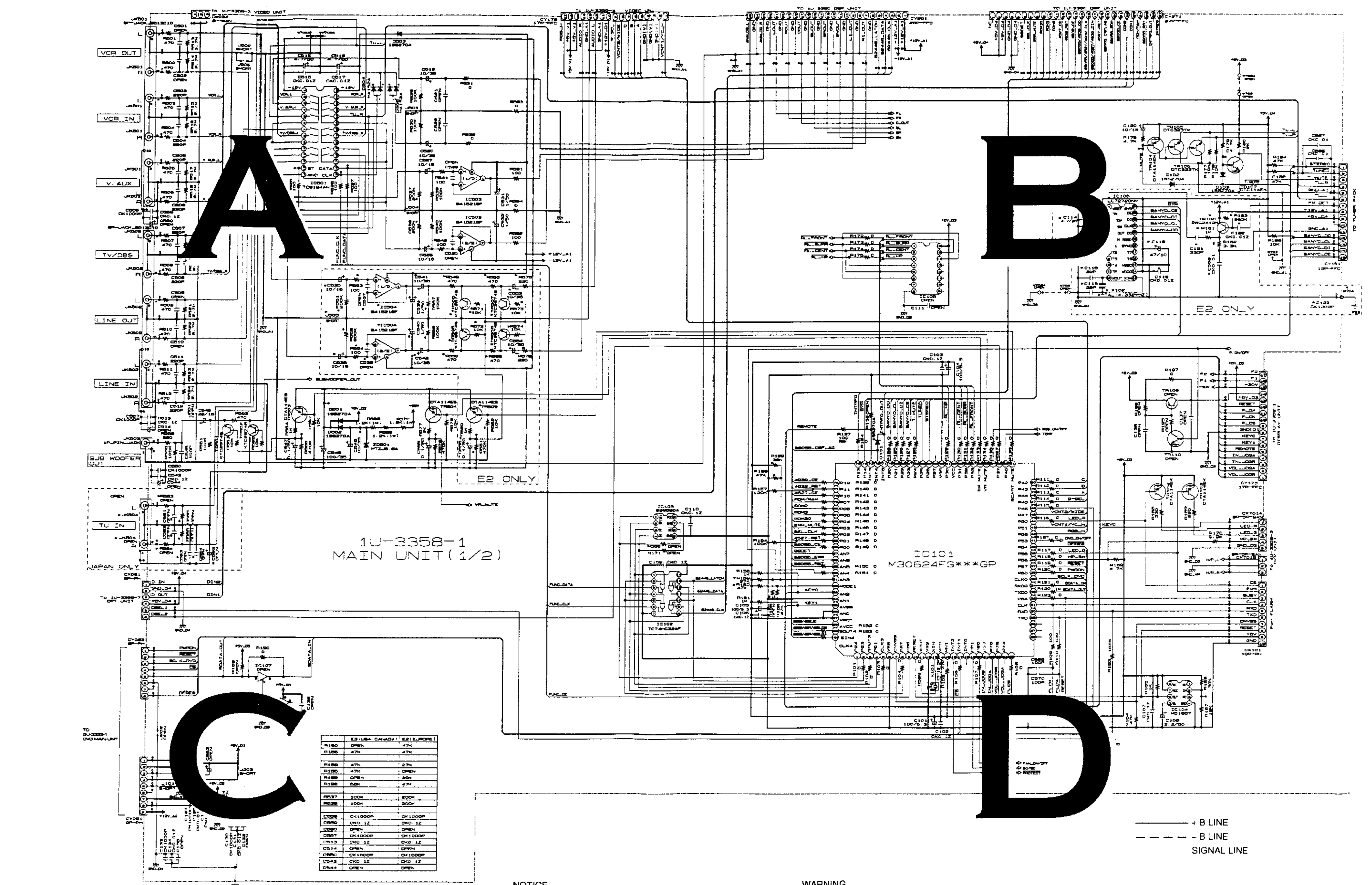
CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

WARNING
DO NOT return the unit to the customer until the problem is located and corrected.

——— - B LINE
– – – – - B LINE
SIGNAL LINE

SCHEMATIC DIAGRAMS(3/8)
1U-3358-1 MAIN UNIT (1/2)

SCHEMATIC DIAGRAMS(3/8)



	E3(USA, CANADA)	E2(EUROPE)
R150	OPEN	47K
R155	47K	47K
R158	47K	27K
R155	47K	OPEN
R159	OPEN	39K
R156	68K	47K
R537	100K	200K
R538	100K	200K
C556	CK1000P	CK1000P
C559	CK0.1Z	CK0.1Z
C560	OPEN	OPEN
C567	CK1000P	CK1000P
C513	CK0.1Z	CK0.1Z
C514	OPEN	OPEN
C550	CK1000P	CK1000P
C543	CK0.1Z	CK0.1Z
C544	OPEN	OPEN

NOTICE
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASUERD AT MO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

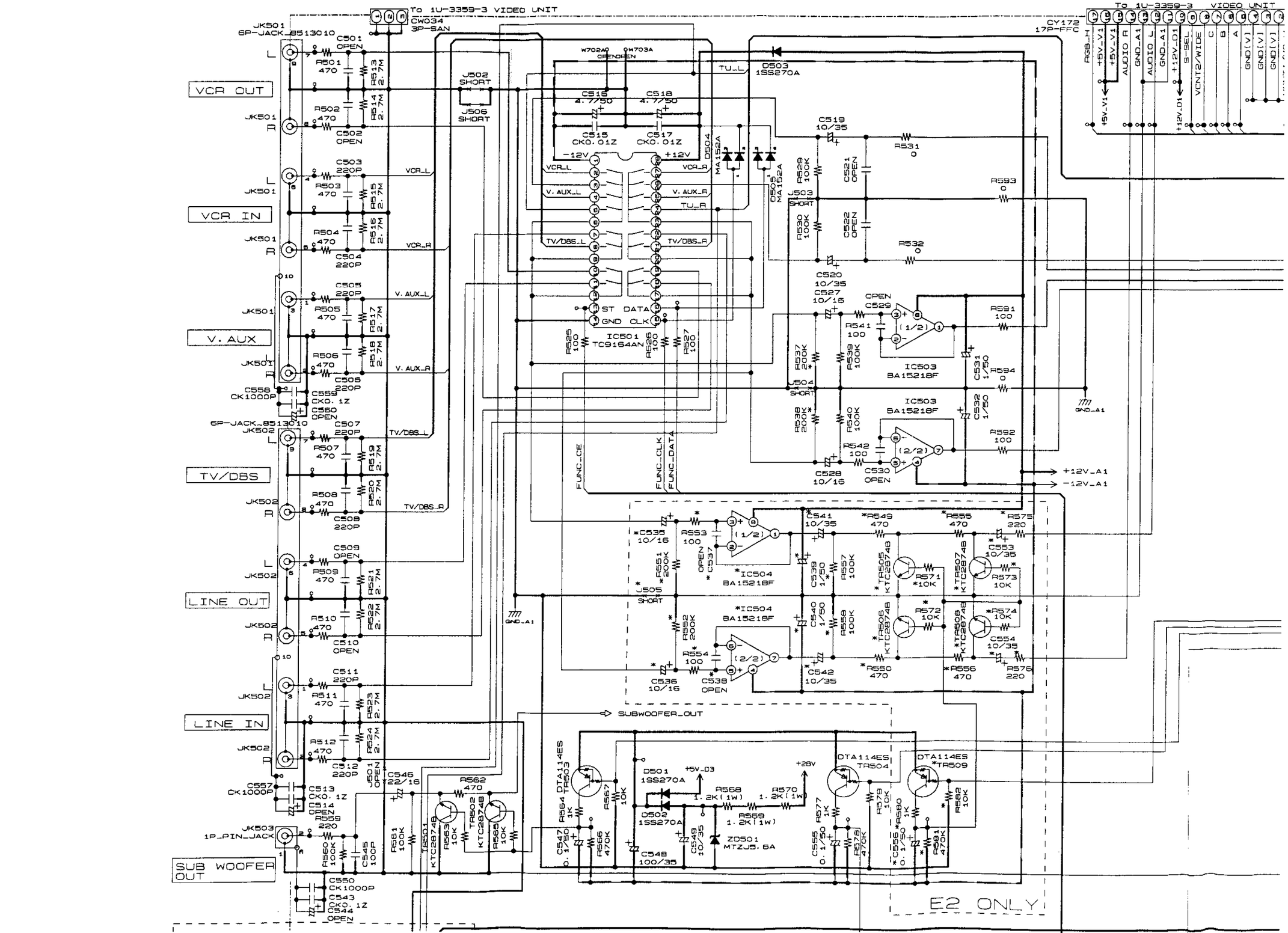
WARNING
Parts marked with this symbol ⚠☐ have critical characteristics.
Use ONLY replacement parts recommended by the manufacture.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

WARNING
DO NOT return the unit to the customer until the problem is located and corrected.

SCHEMATIC DIAGRAMS(3/8)
1U-3358-1 MAIN UNIT (1/2)

SCHEMATIC DIAGRAMS(3/8)



6 7 8 9 10 11

A B C D

TO 1U-3360 DSP UNIT

CY251 25P-FFC

TO 1U-3360 DSP UNIT

CY271 27P-FFC

+12V_A1 -12V_A1 +5V_D4 +5V_D3 GND_V1 GND_A1 GND_D4 GND_D3

FL FR C_OUT SL SR SW

+5V_D3 W705A OPEN W705 OPEN +5V_D4

C120 10/16 TR105 DTC323TK R176 4.7K T. MUTE TR104 DTA114EK TR106 DTC323TK D102 1SS270A D103 1SS270A TR107 DTC114EK R177 10K R178 10K R179 4.7K R180 2K R184 47K R185 47K

C567 CKO.01 C568 CKO.01

TU_L TU_R STEREO TUNED T. MUTE GND_A1 FM DET +12V_A1 +5V_D4 SANYO_DO SANYO_CL SANYO_DI SANYO_CE

TO TUNER PACK

CY151 15P-FFC

IC106 LC72720NM VREF IN VDDA VSSA FLOUT CIN T1 T2 T3 T4 T5 XOUT XIN SYR CE DI CLK DO RDSID SYNC T7 T6 VSSD VDDD

C112 CKO.01Z C113 10/16 C114 4.7/35 C115 22P C116 22P X102 X-TAL(4.332MHZ) C117 560P C118 47/10 C119 CKO.01Z C121 330P C122 CKO.01Z

TR108 2SC2412K R181 1K R182 3.3K R183 680K R186 10K W709 OPEN

W705A OPEN W705 OPEN W704 C123 CK1000P

E2 ONLY

R172 R173 R174 R175 RL_FRONT RL_SUAR RL_CENT RL_HP

IC105 OPEN C111 OPEN

C103 CKO.1Z C104 100/6.3

REMOTE R137 100 R124 0 R138 OPEN D101 1SS270A

INTREQ SYR INTREQ_OUT SANYO_DO SANYO_CL SANYO_DI SANYO_CE T.MUTE TUNED STEREO RL_HP RL_CENT RL_SUAR RL_FRONT

SDB_ON/OFF TEMP

89055_CSFLAG R199 39K R198 47K R157 100K

4932_CE 4932_RST 4527_CE R139 R140 0

P13 P14 P12 P11 INT3 INT4 INT5 P20 P21 P22 P23 P24 P25 P26 P27 VSS P30 VCC P31 P32 P33 SW MUTE VR MUTE P37 P40 ART MUTE P42 P43

R111 R112 R113 0 C B A

P. ON/OFF

R197 0 TR109 OPEN R196 OPEN R195 OPEN C136 OPEN C137 OPEN TR110 OPEN

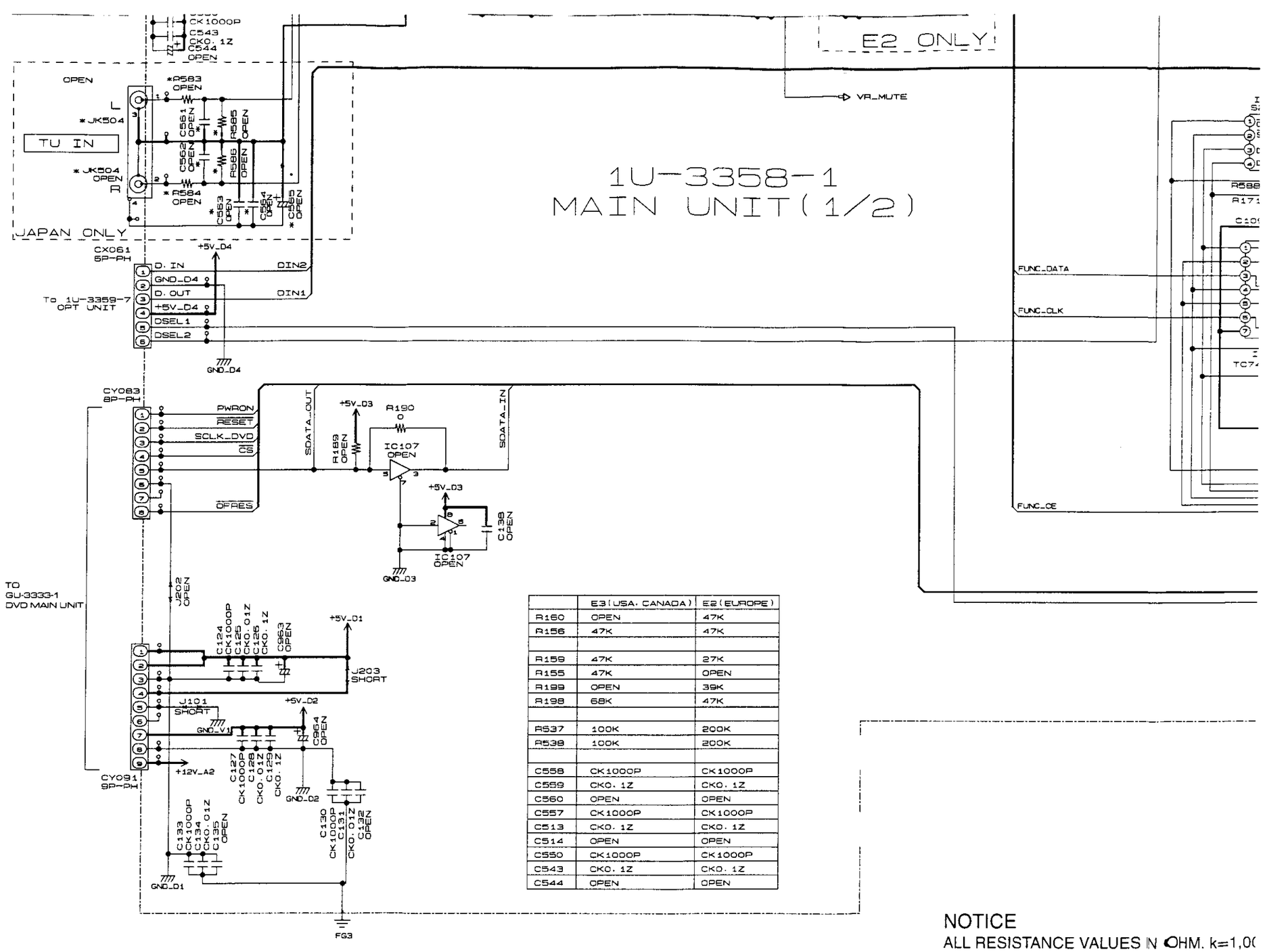
F2 F1 -30V +5V_D3 RESET FLDA FLCK FLCS GNDID KEYO KEY1 REMOTE IN_JOGA IN_JOGB VOL_JOGA VOL_JOGB

To 1U-3359-1 DISPLAY UNIT

CY173 17P-FFC

TR102 DTC114EK TR103 DTC114EK

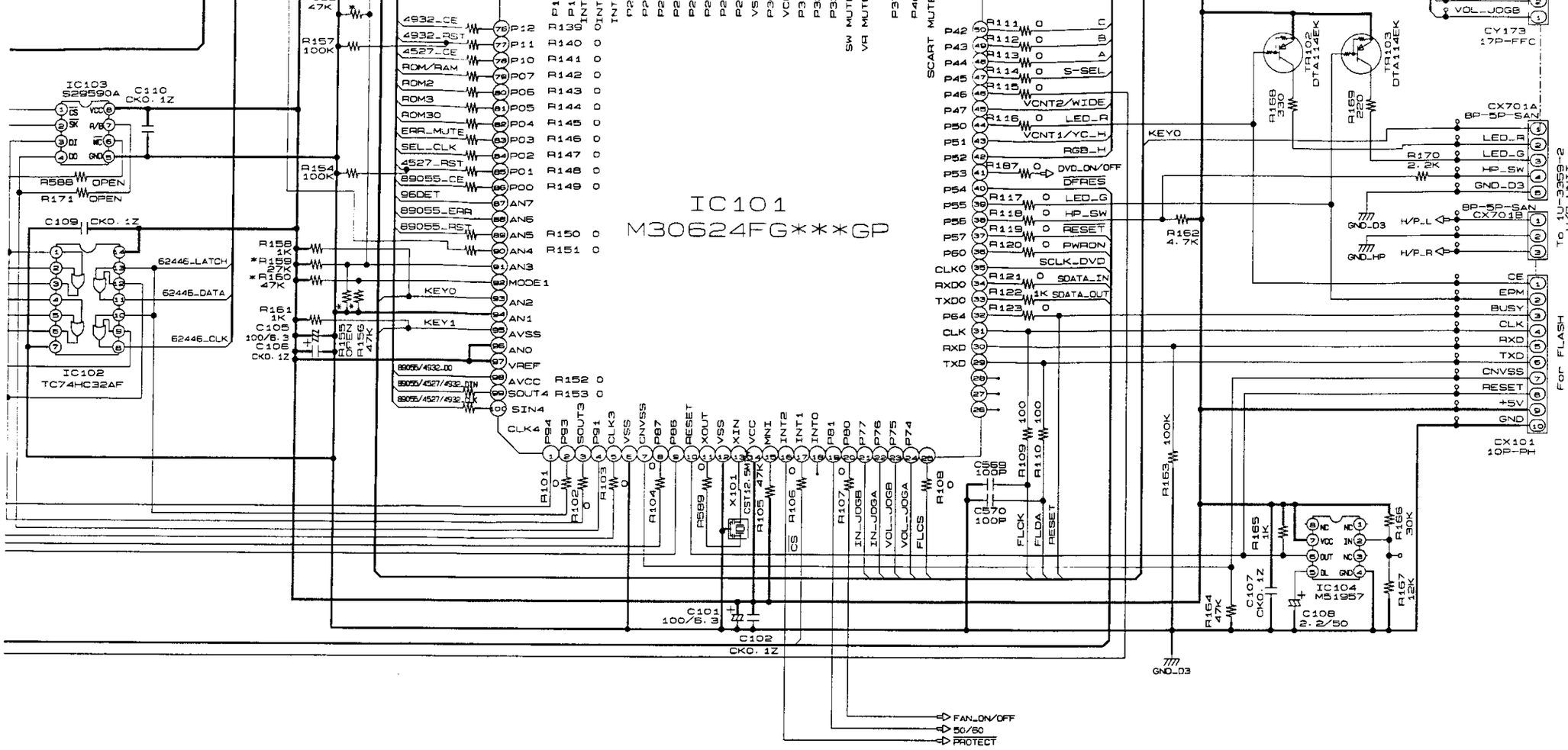
1U-3358-1
MAIN UNIT(1/2)



	E3(USA. CANADA)	E2(EUROPE)
R160	OPEN	47K
R156	47K	47K
R159	47K	27K
R155	47K	OPEN
R199	OPEN	39K
R198	68K	47K
R537	100K	200K
R538	100K	200K
C558	CK1000P	CK1000P
C559	CKO. 1Z	CKO. 1Z
C560	OPEN	OPEN
C557	CK1000P	CK1000P
C513	CKO. 1Z	CKO. 1Z
C514	OPEN	OPEN
C550	CK1000P	CK1000P
C543	CKO. 1Z	CKO. 1Z
C544	OPEN	OPEN

NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,0(
ALL CAPACITANCE VALUES IN MICRO FA
EACH VOLTAGE AND CURRENT ARE MEA
CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO C
NOTICE.



——— + B LINE

— — — — – B LINE

SIGNAL LINE

1. k=1,000 OHM M=1,000,000 OHM
CRO FARAD. P=MICRO-MICRO FARAD
RE MEASUERD AT MO SIGNAL INPUT

CT TO CHANGE WITHOUT PRIOR

WARNING

Parts marked with this symbol ⚠ ☐ have critical characteristics.
Use ONLY replacement parts recommended by the manufacture.

CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

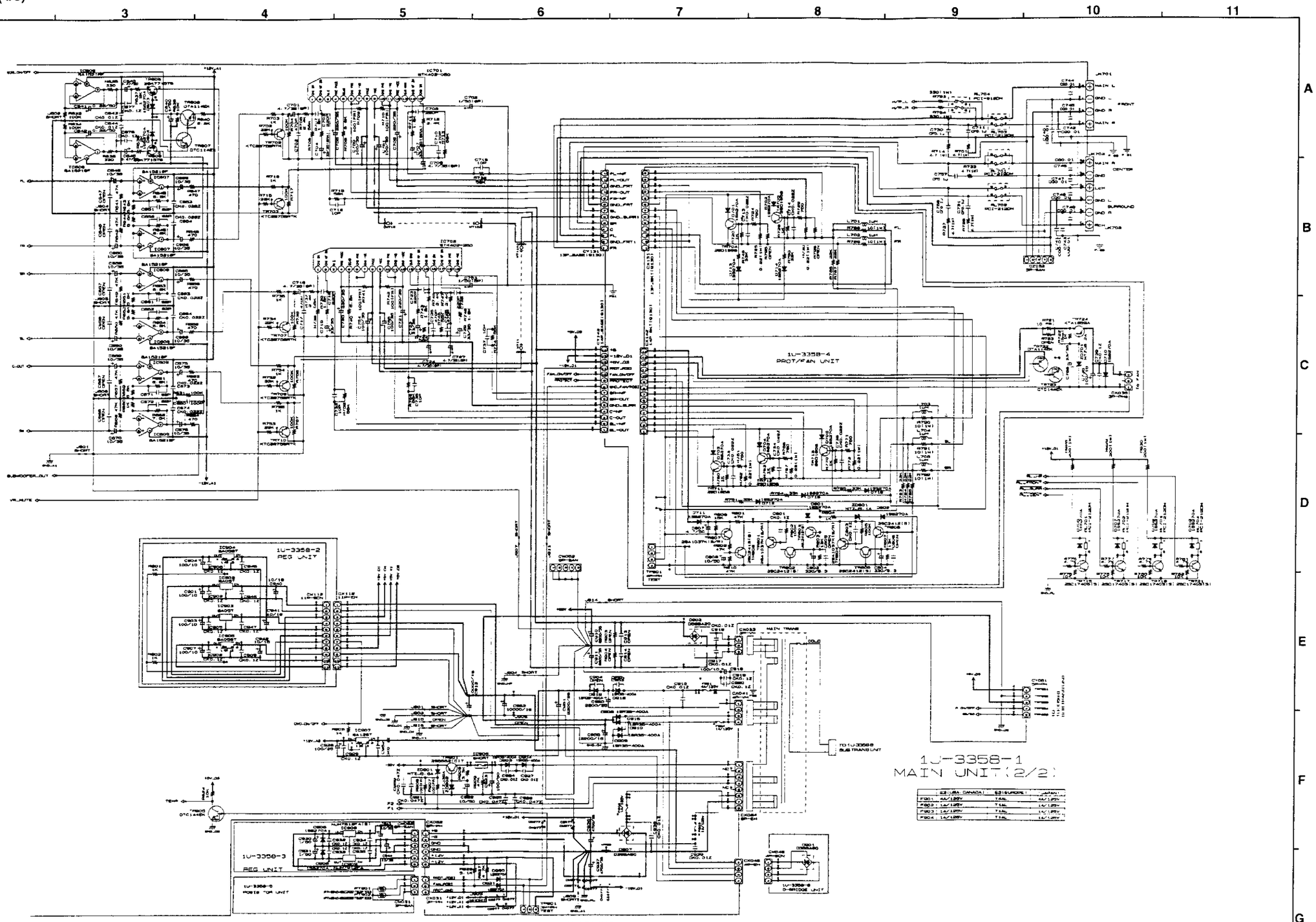
WARNING

DO NOT return the unit to the customer until the problem is located and corrected.

SCHEMATIC DIAGRAMS(3/8)

1U-3358-1 MAIN UNIT (1/2)

SCHEMATIC DIAGRAMS(4/8)



NOTICE
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASUERD AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:
Parts marked with this symbol ⚠ have critical charcteristics.
Use ONLY replacement parts recommended by the manufacture.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

WARNING
DO NOT return the unit to the customer until the problem is located and corrected.

——— + B LINE
– – – – – B LINE
SIGNAL LINE

SCHEMATIC DIAGRAMS(4.8)
1U-3358-1 MAIN UNIT (2/2)
1U-3358-2 REG UNIT
1U-3358-3 AUDIO REG UNIT
1U-3358-4 PROT/FAN UNIT
1U-3358-5 POSISTOR UNIT
1U-3358-6 D-BRIDGE UNIT

6 7 8 9 10 11

A B C D

1U-3358-4
PROT/FAN UNIT

CY131
13P_BASE(9130)

CX131
13P_SKT(9130)

CY142
14P_BASE(9130)

CX142
14P_SKT(9130)

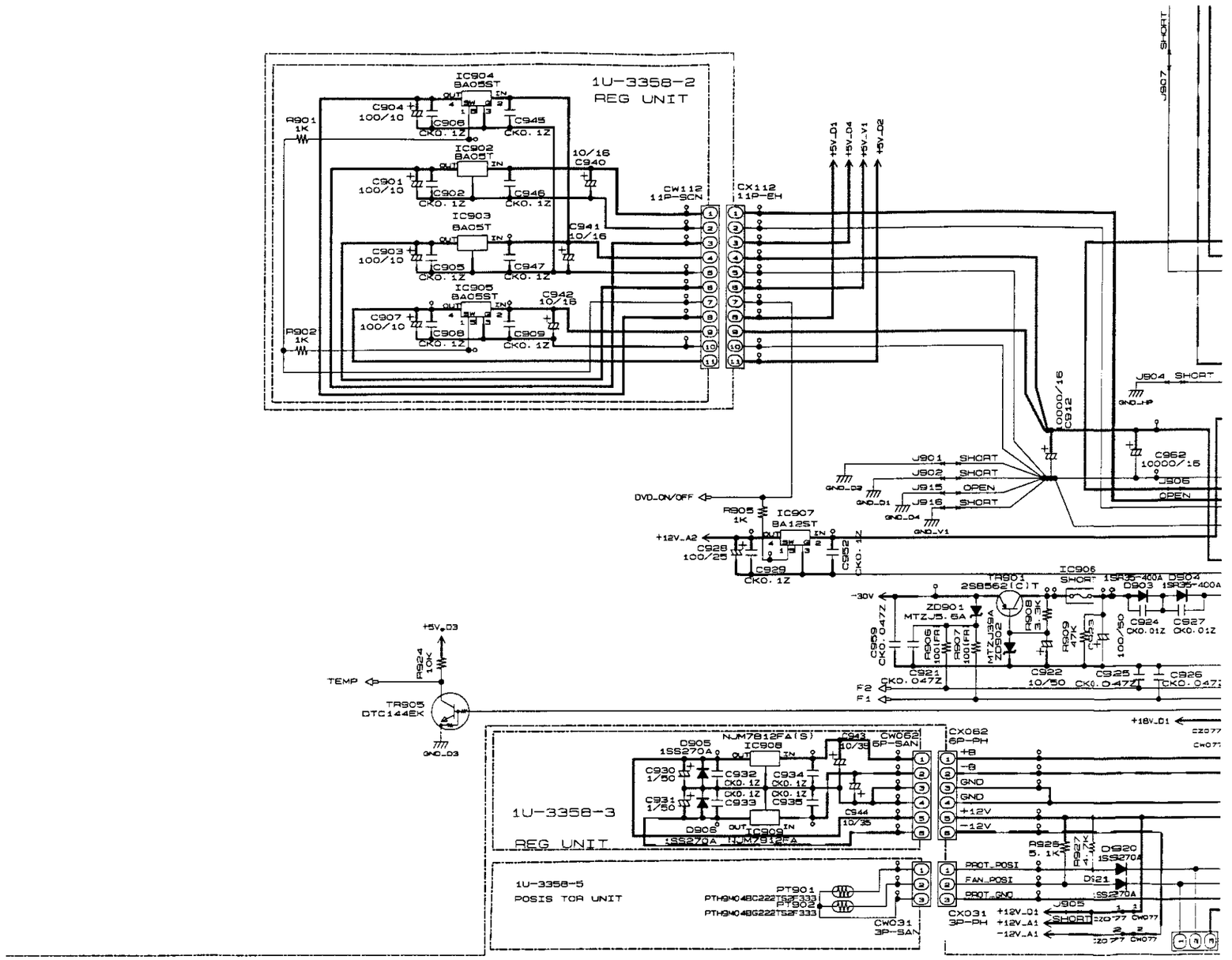
CZ052
5P-SAN

CX035
3P-PH5

JK701
JK702

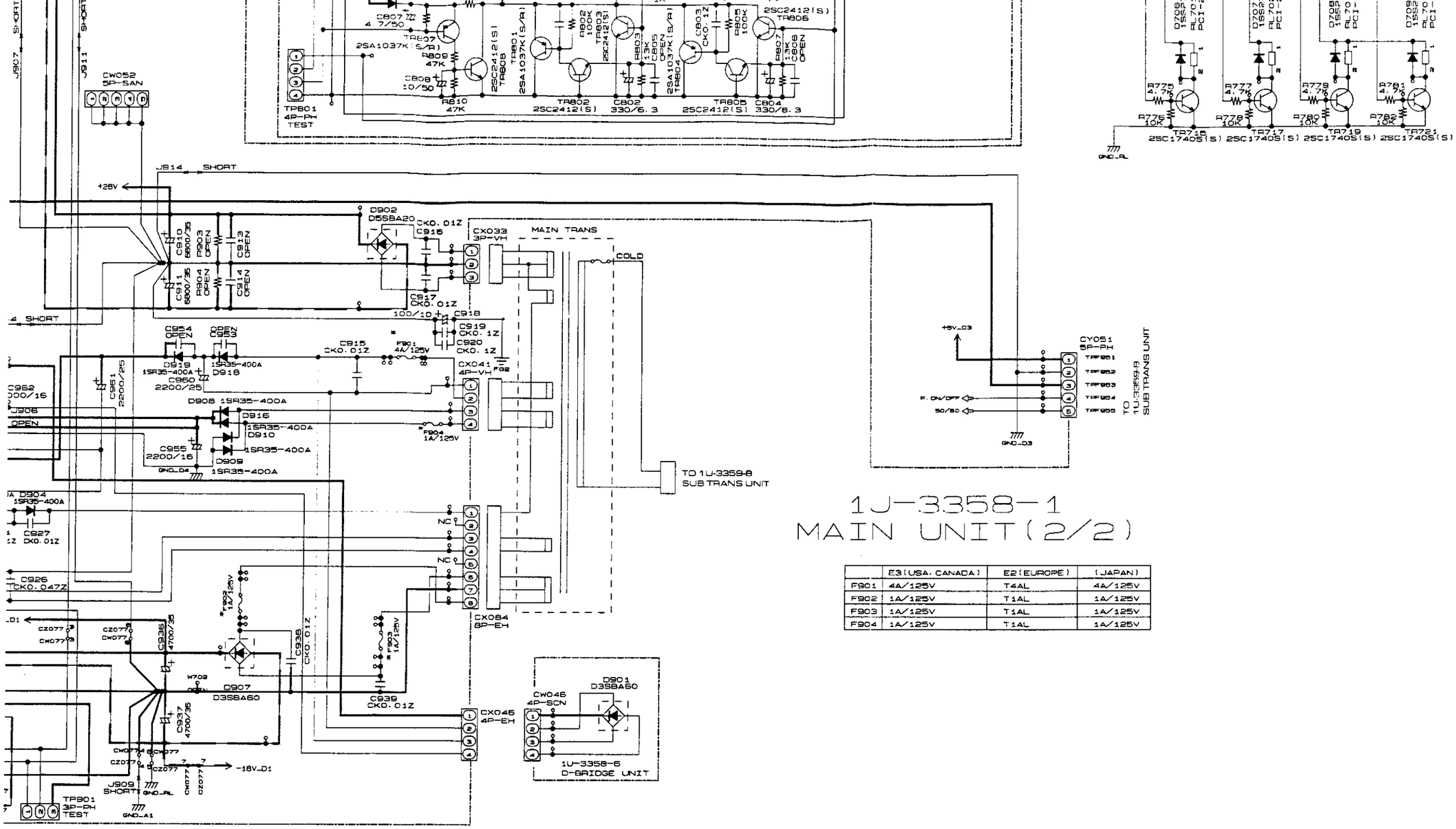
FRONT
CENTER
SURROUND

TO FAN



NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASUERD AT MO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.



1J-3358-1 MAIN UNIT (2/2)

	E3(USA, CANADA)	E2(EUROPE)	(JAPAN)
F901	4A/125V	T4AL	4A/125V
F902	1A/125V	T1AL	1A/125V
F903	1A/125V	T1AL	1A/125V
F904	1A/125V	T1AL	1A/125V

WARNING:
Parts marked with this symbol ⚠ ☐ have critical characteristics.
Use ONLY replacement parts recommended by the manufacture.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

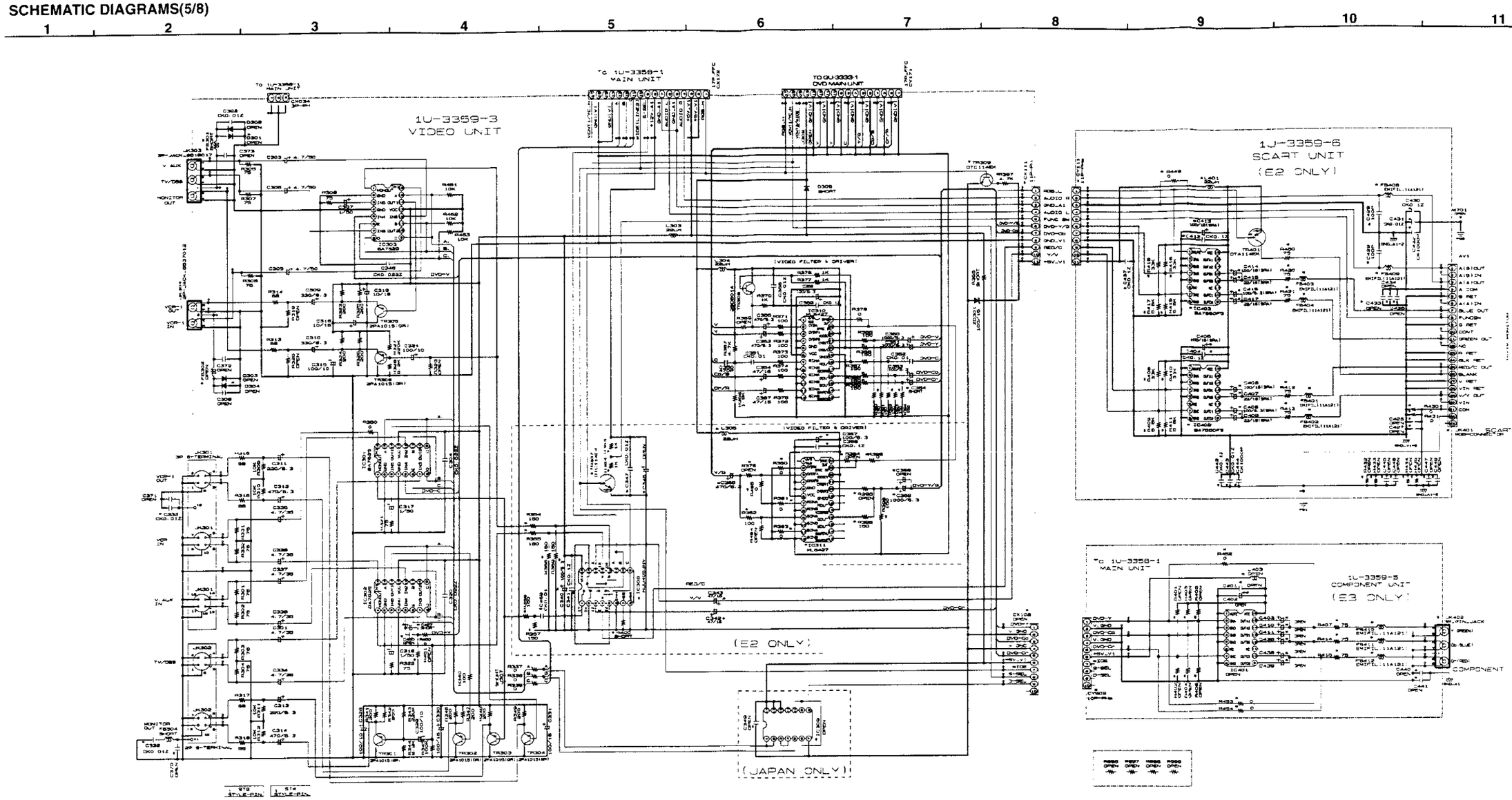
WARNING
DO NOT return the unit to the customer until the problem is located and corrected.

——— + B LINE
– – – – – B LINE
SIGNAL LINE

SCHEMATIC DIAGRAMS(4/8)

1U-3358-1 MAIN UNIT (2/2)
1U-3358-2 REG UNIT
1U-3358-3 AUDIO REG UNIT
1U-3358-4 PROT/FAN UNIT
1U-3358-5 POSISTOR UNIT
1U-3358-6 D-BRIDGE UNIT

SCHEMATIC DIAGRAMS(5/8)



	E2	E3
C488	OPEN	CKD 1Z
C497	1000/6.3	OPEN
R490	0	150
R491	OPEN	150
R307	4.7K	OPEN
TR309	DTC114EK	OPEN
CX111	11P PH	OPEN
CX102	OPEN	10P PH
C381	SHORT	1000/6.3
C384	SHORT	100/6.3
R386	150	0
R388	150	0
R389	150	0
R391	150	OPEN
R393	150	OPEN
R394	150	OPEN

NOTICE
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASUERD AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:
Parts marked with this symbol ⚠ have critical characteristics.
Use ONLY replacement parts recommended by the manufacture.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

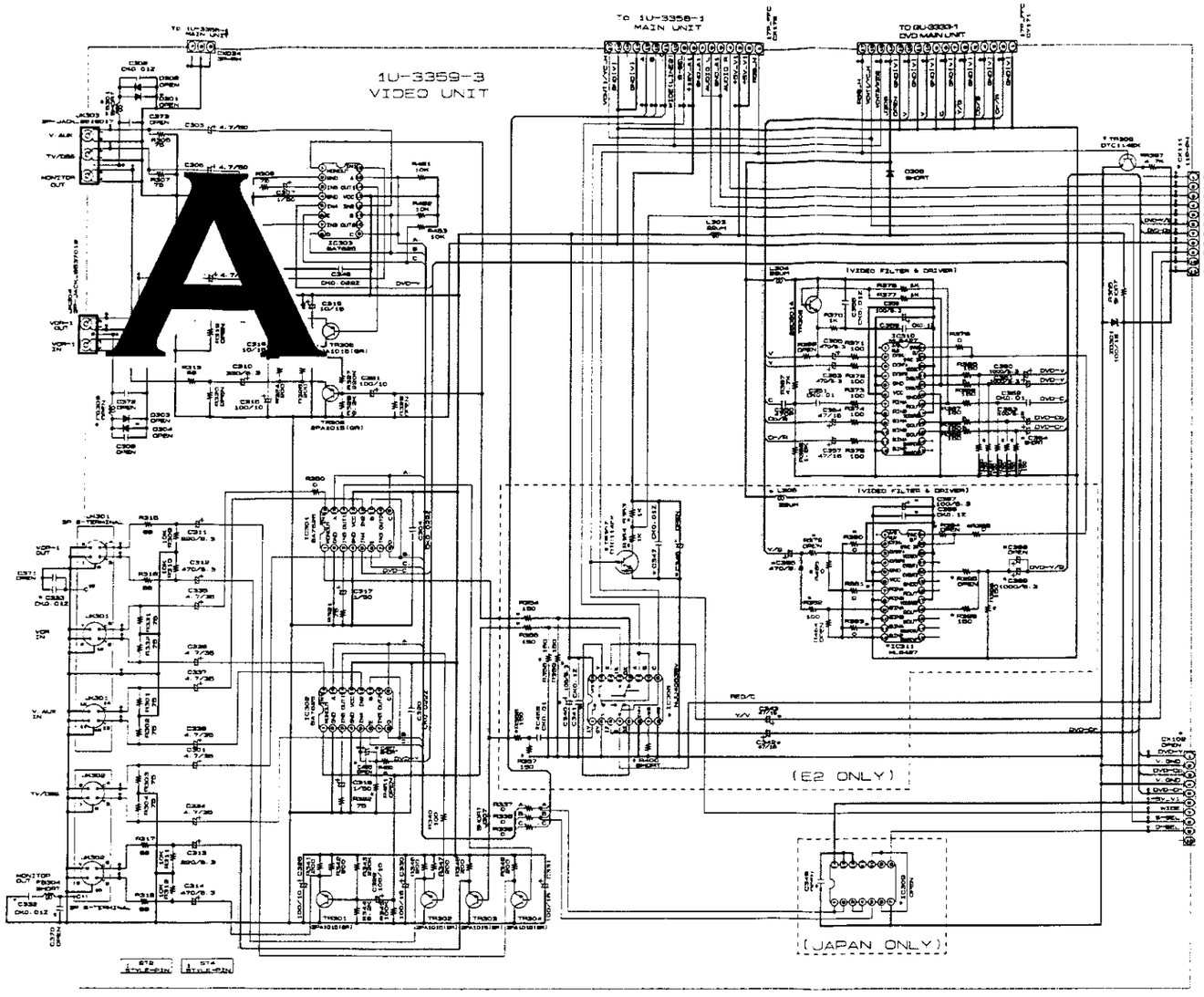
——— + B LINE
SIGNAL LINE

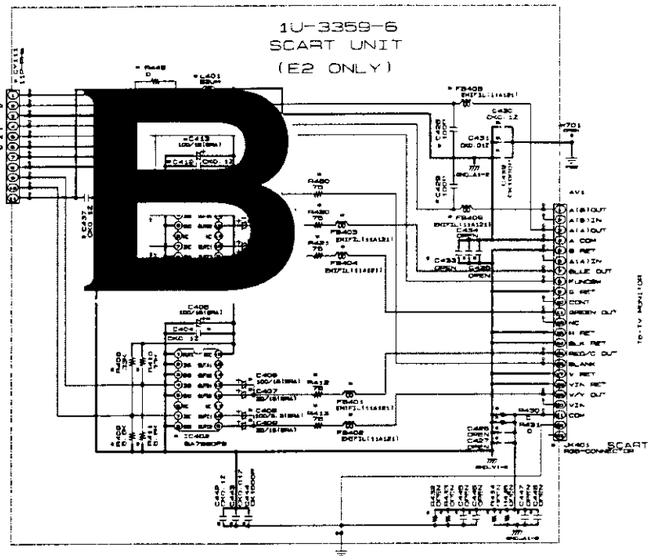
SCHEMATIC DIAGRAMS(5/8)
1U-3359-3 VIDEO UNIT
1U-3359-5 COMPONENT UNIT
1U-3359-6 SCART UNIT
1U-3359-7 OPT UNIT

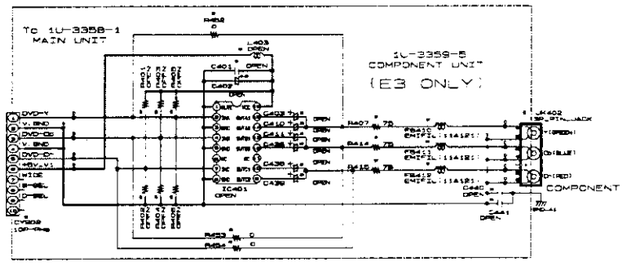
SCHEMATIC DIAGRAMS(5/8)

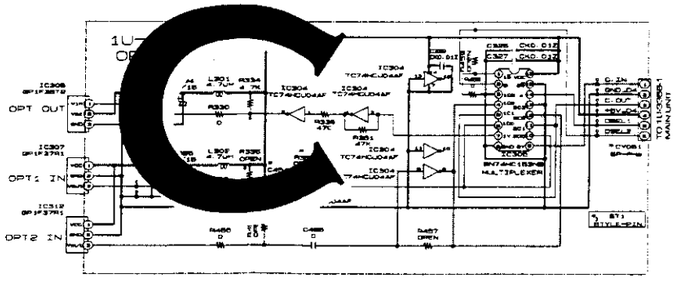
1 2 3 4 5 6 7 8 9 10 11

A B C D E F G H









	E2	E3
C455	OPEN	CHD. 12
C457	1000/6.3	OPEN
R430	0	150
R451	OPEN	150
R397	4.7K	OPEN
TR308	DCT114E	OPEN
CX111	1UH	OPEN
CX102	OPEN	10P PH
C393	SHORT	1000/6.3
C394	SHORT	100/6.3
R386	150	0
R388	150	0
R389	150	0
R391	150	OPEN
R393	150	OPEN
R394	150	OPEN

NOTICE
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASUERD AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:
Parts marked with this symbol ⚠ have critical characteristics.
Use ONLY replacement parts recommended by the manufacture.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

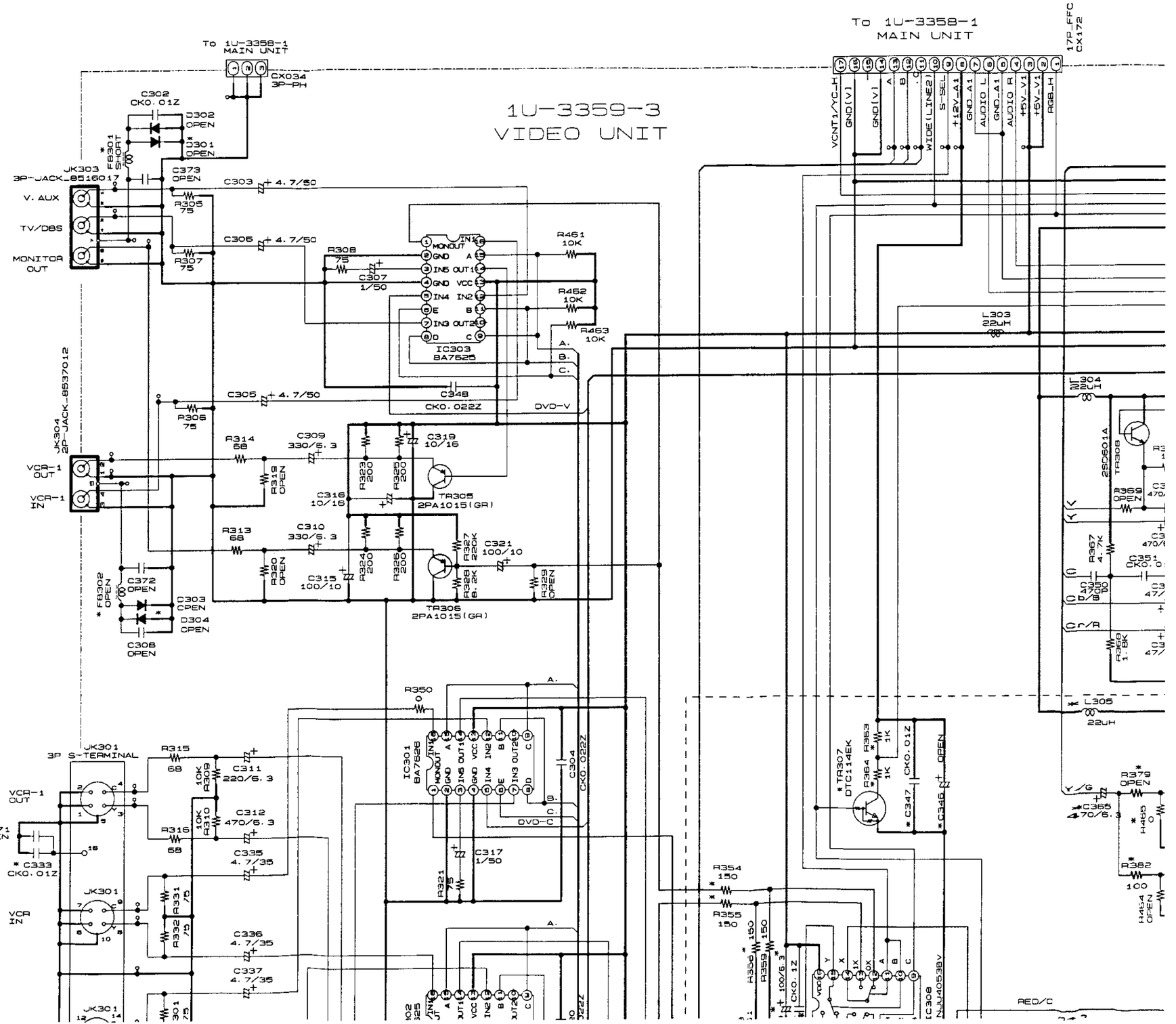
WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

+ B LINE
SIGNAL LINE

SCHEMATIC DIAGRAMS(5/8)
1U-3359-3 VIDEO UNIT
1U-3359-5 COMPONENT UNIT
1U-3359-6 SCART UNIT
1U-3359-7 OPT UNIT

SCHEMATIC DIAGRAMS(5/8)

1 2 3 4 5 6



6 7 8 9 10 11

A B C D

TO GU-3333-1
DVD MAIN UNIT

17P_FFC
CY171

RGB_H
VCNT1/YC_H
VCNT2/WIDE
J309
OPEN
GND[V]
Y
C
Y/G
CB/B
CR/R

* TR309
DTC114EK
*R397
4.7K
D305
SHORT

* CX111
11P-PH

RGB_L
AUDIO R
GND_A1
AUDIO L
FUNC SW
DVD-Y/G
DVD-Cb
DVD-Cr
GND_V1
RED/C
Y/V
+5V_V1

* CY111
11P-PHS

R365
SHORT
ZD301
100/16

[VIDEO FILTER & DRIVER]

TR308
R370 1K
C356 CKO.01Z
R376 1K
R377 1K
C358 100/6.3
C359 CKO.12
R378 0
R369 OPEN
C355 470/6.3
R371 100
C353 470/6.3
R372 100
C351 CKO.01
R373 100
C354 47/16
R374 100
C357 47/16
R375 100
R368 1.8K
IC310
ML6427
R385 150
R386 150
R387 150
R388 150
R389 150
C350 1000/6.3
C361 1000/6.3
C362 CKO.01
C363 100/6.3
* C364
SHORT
DVD-V
DVD-Y
DVD-C
DVD-Cb
DVD-Cr
R390 150
R391 150
R392 150
R393 150
R394 150

[VIDEO FILTER & DRIVER]

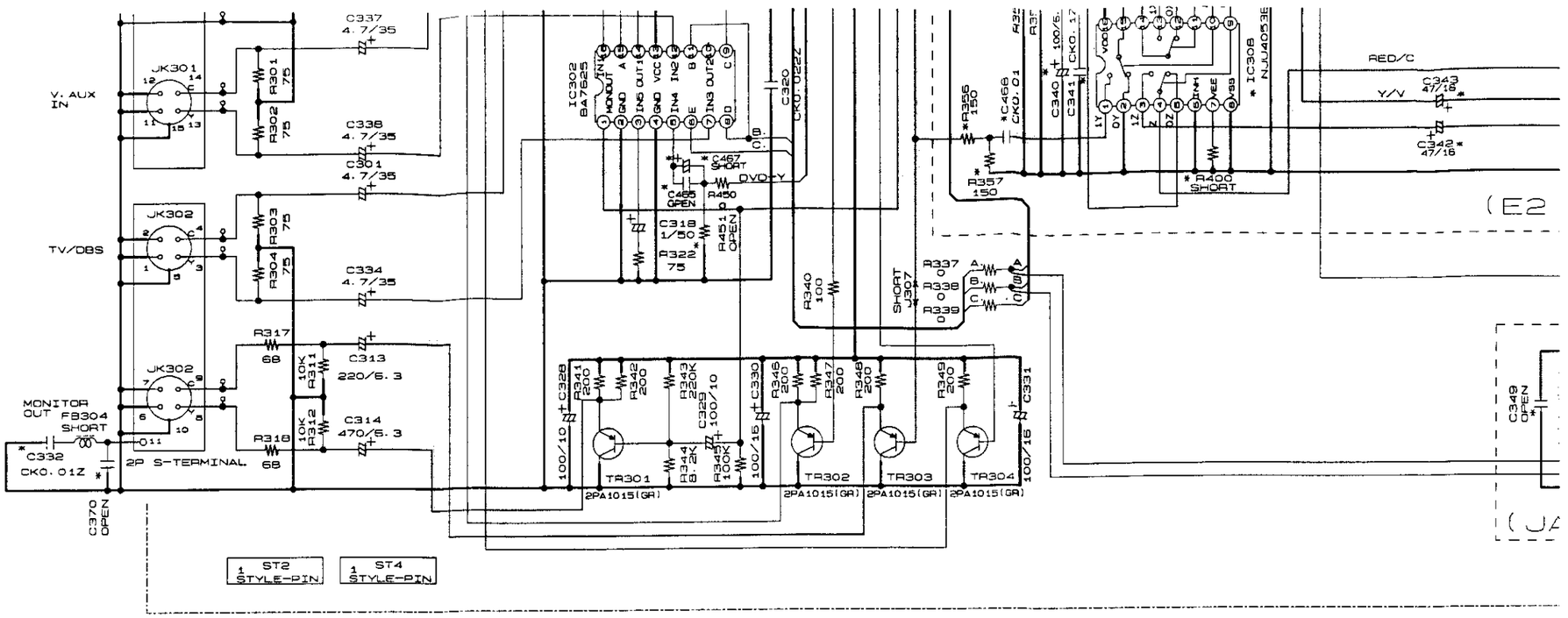
C367 100/6.3
C366 CKO.1Z
R379 OPEN
R380 0
R465 0
R381 0
R382 100
R464 Z OPEN
R383 0
* R384 OPEN
*R399 0
*C368 OPEN
DVD-Y/G
* R395 OPEN
*C369 1000/6.3
R396 150
* R398 150
*IC311
ML6427

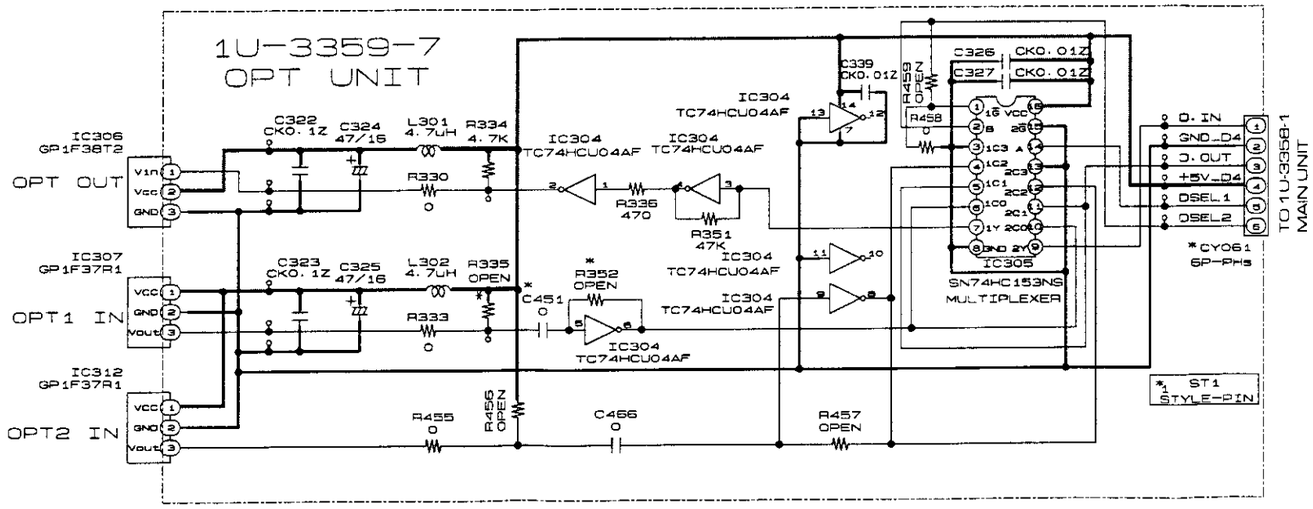
1U-3359-6
SCART UNIT
(E2 ONLY)

* R449 0
*L401 22UH
*C413 100/16(SRA)
*C412 CKO.12
TR401 DTA114EK
* R460 75
C437 CKO.1Z
R416 33K
R418 33K
R417 5.6K
R419 5.6K
* IC403
BA7660FS
C414 100/16(SRA)
C415 22/16(SRA)
C416 100/6.3(SRA)
C417 22/16(SRA)
R420 75
R421 75
FB403 EMIFIL(11A121)
FB404 EMIFIL(11A121)
C405 100/16(SRA)
C404 CKO.12
R408 33K
R410 33K
R409 5.6K
R411 5.6K
* IC402
BA7660FS
C406 100/16(SRA)
C407 22/16(SRA)
C408 100/6.3(SRA)
C409 22/16(SRA)
R412 75
R413 75
FB401 EMIFIL(11A121)
FB402 EMIFIL(11A121)
* FB408 EMIFIL(11A121)
C428 100P
C429 100P
C430 CKO.1Z
C431 CKO.01Z
C432 CK1000P
W701 OPEN
FG2
GND_A1-2
* FB409 EMIFIL(11A121)
C434 OPEN
* C433 OPEN
C435 OPEN
R430 0
R431 0
C426 OPEN
C427 OPEN
GND_V1-2
AV1
A(B)OUT
A(B)IN
A(A)OUT
A COM
B RET
A(A)IN
BLUE OUT
FUNCSW
G RET
CONT
GREEN OUT
NC
R RET
BLK RET
RED/C OUT
BLANK
V RET
VIN RET
V/Y OUT
VIN
COM
TO TV MONITOR
* JK401 SCART
RGB-CONNECTOR
C442 CKO.1Z
C443 CKO.01Z
C444 CK1000P
R432 OPEN
R433 OPEN
C445 OPEN
C446 OPEN
R434 OPEN
R435 OPEN
C447 OPEN
C448 OPEN
GND_A1-2
FG1

To 1U-3358-1
MAIN UNIT
* R452 0
L403 * OPEN
C401 * OPEN

1U-3359-5
COMPONENT UNIT

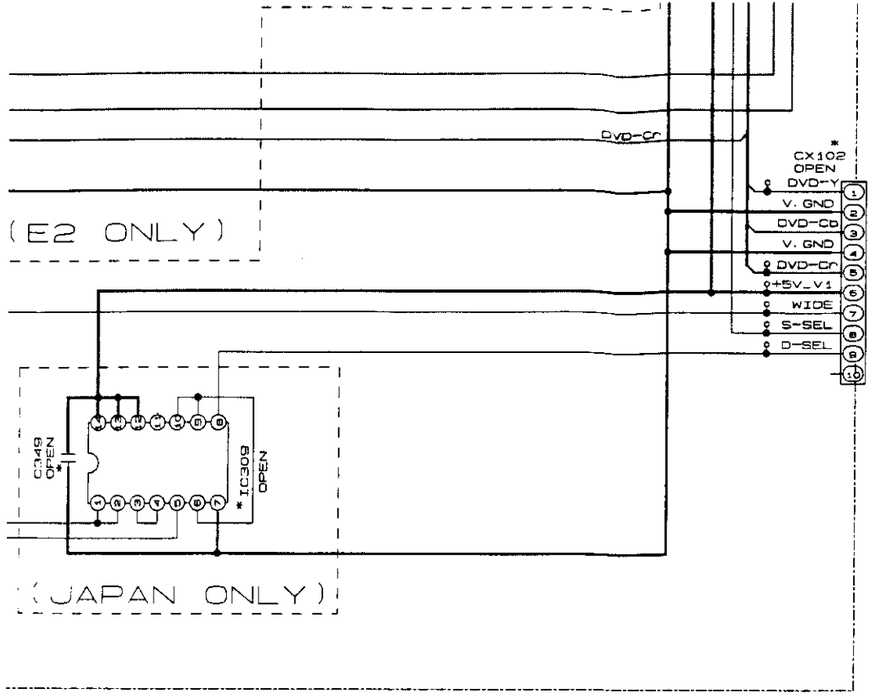


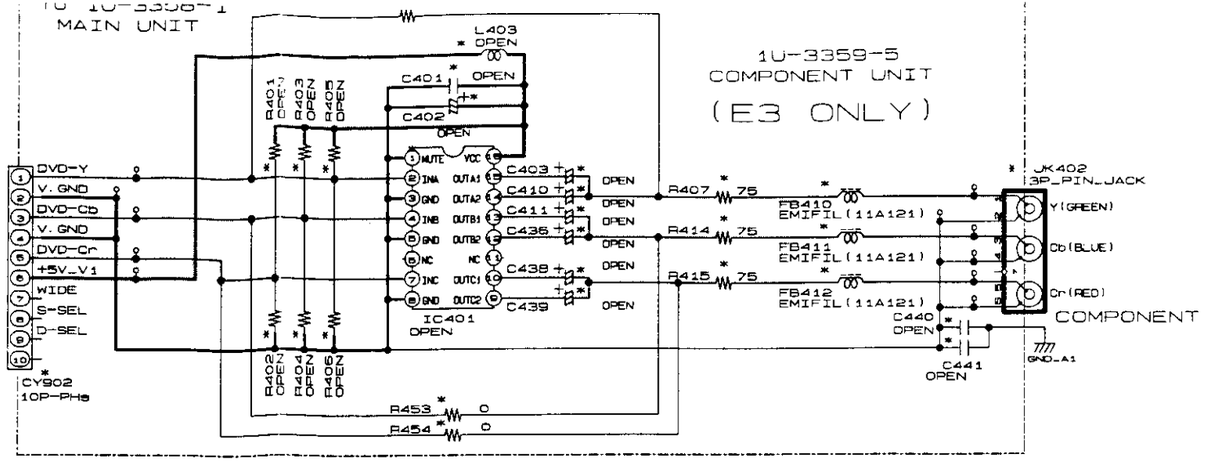


	E2
C465	OPEN
C467	1000/6.3
R450	0
R451	OPEN
R397	4.7K
TR309	DCT114EK
CX111	11P PH
CX102	OPEN
C361	SHORT
C364	SHORT
R386	150
R388	150
R389	150
R391	150
R393	150
R394	150

NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,
ALL CAPACITANCE VALUES IN MICRO F.
EACH VOLTAGE AND CURRENT ARE ME
CONDITION.
CIRCUIT AND PARTS ARES UBJECT TO
NOTICE.





	E3
	CKO. 1Z
D/E. 3	OPEN
	150
	150
	OPEN
124EK	OPEN
PF	OPEN
	10P PH
PF	1000/6. 3
PF	100/6. 3
	0
	0
	0
	OPEN
	OPEN
	OPEN

IM. k=1,000 OHM M=1,000,000 OHM
ICRO FARAD. P=MICRO-MICRO FARAD
ARE MEASUERD AT MO SIGNAL INPUT

ECT TO CHANGE WITHOUT PRIOR

WARNING:
Parts marked with this symbol ⚠ have critical characteristics.
Use ONLY replacement parts recommended by the manufacture.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

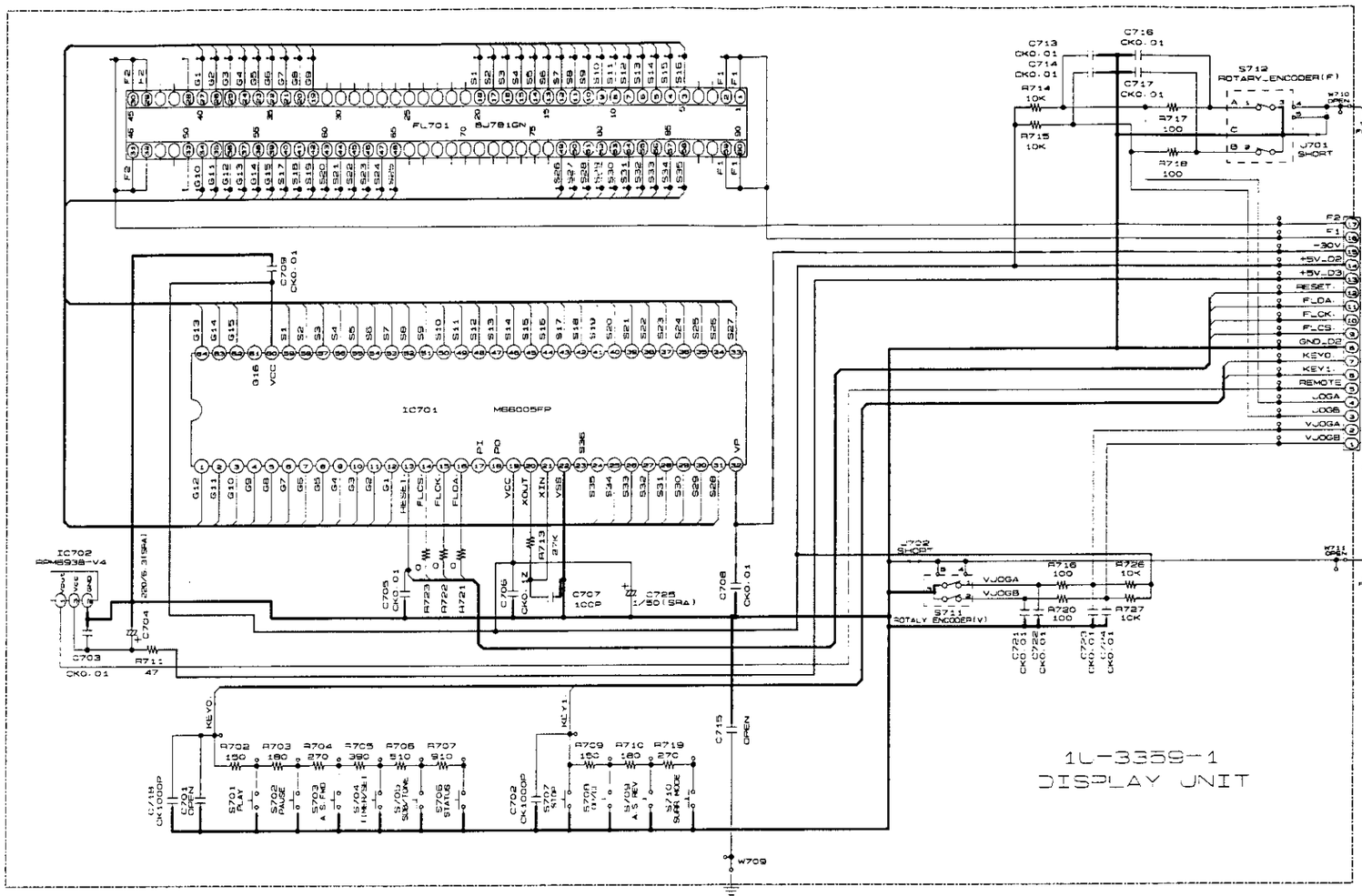
WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

——— + B LINE
SIGNAL LINE

SCHEMATIC DIAGRAMS(5/8)

1U-3359-3 VIDEO UNIT
1U-3359-5 COMPONENT UNIT
1U-3359-6 SCART UNIT
1U-3359-7 OPT UNIT

SCHEMATIC DIAGRAMS(6/8)



	E2	E3	J
F905	T1.5A	2.5A/125V	4A/125V
T901	2336383004	2336384003	2330613000

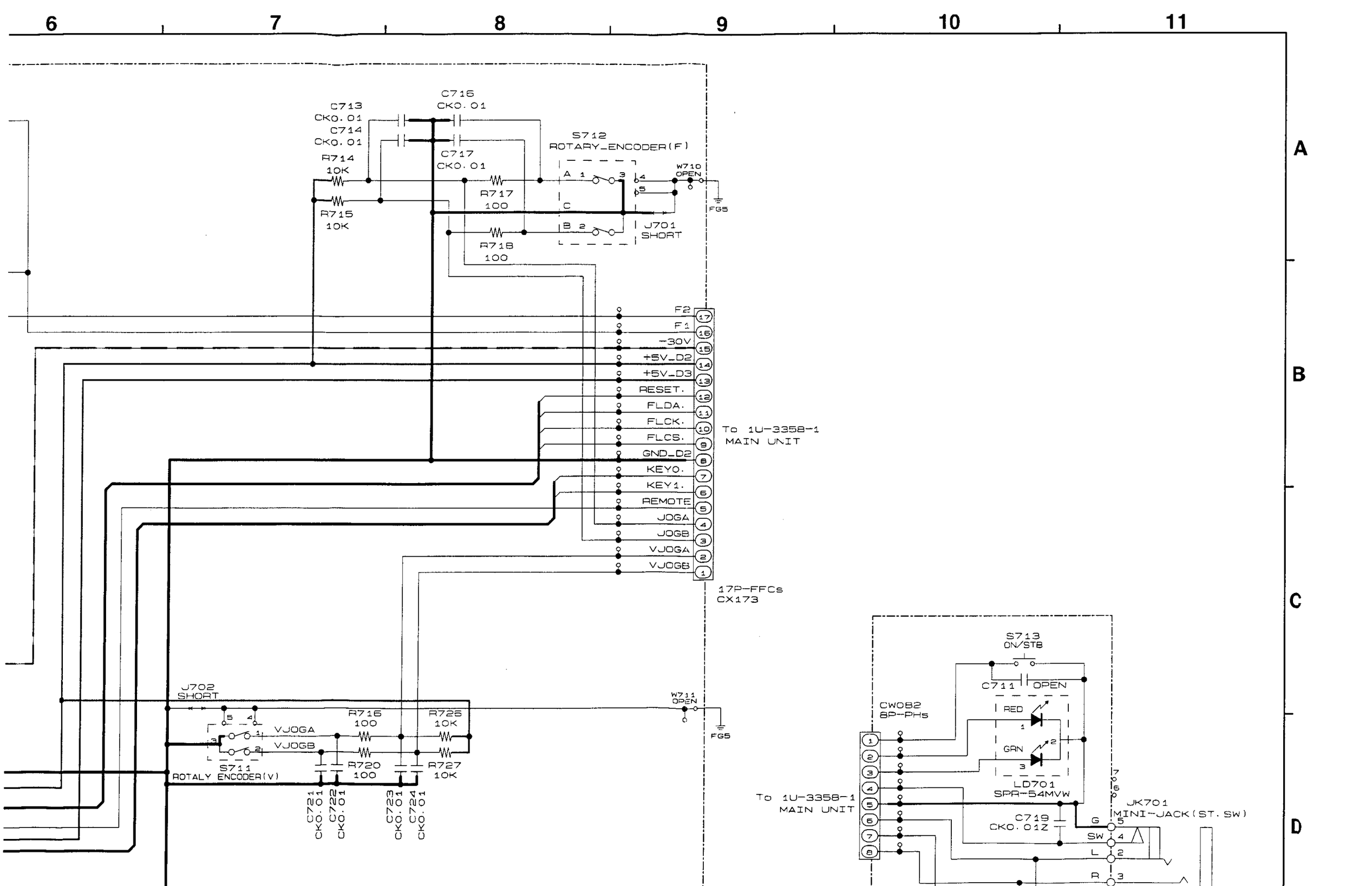
WARNING:
Parts marked with this symbol ⚠ have critical characteristics.
Use ONLY replacement parts recommended by the manufacture.

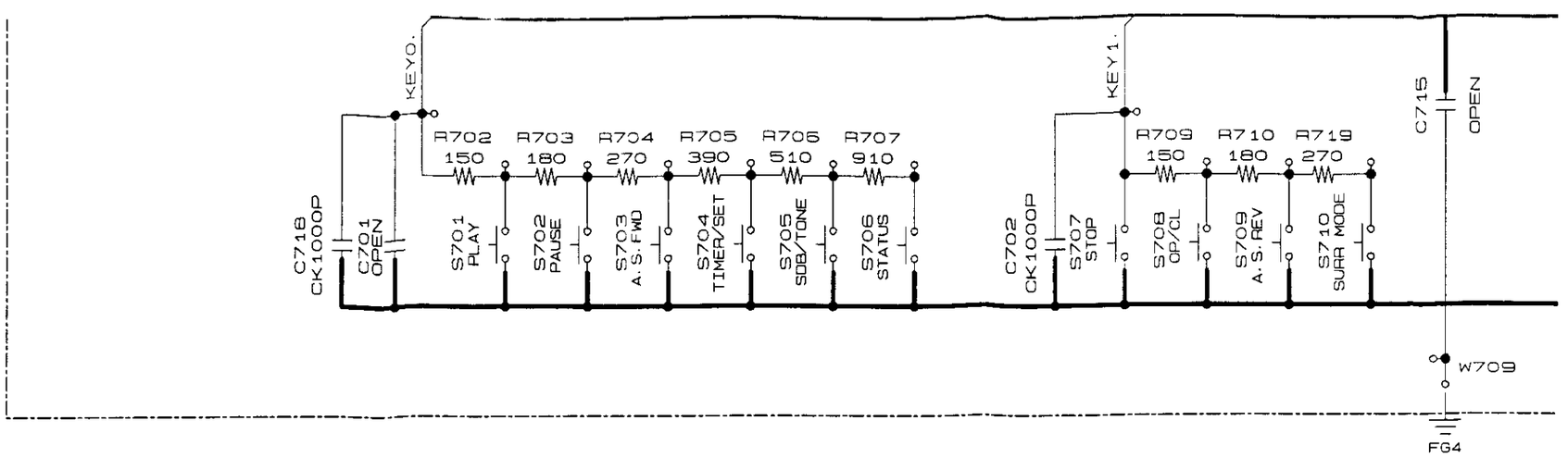
CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

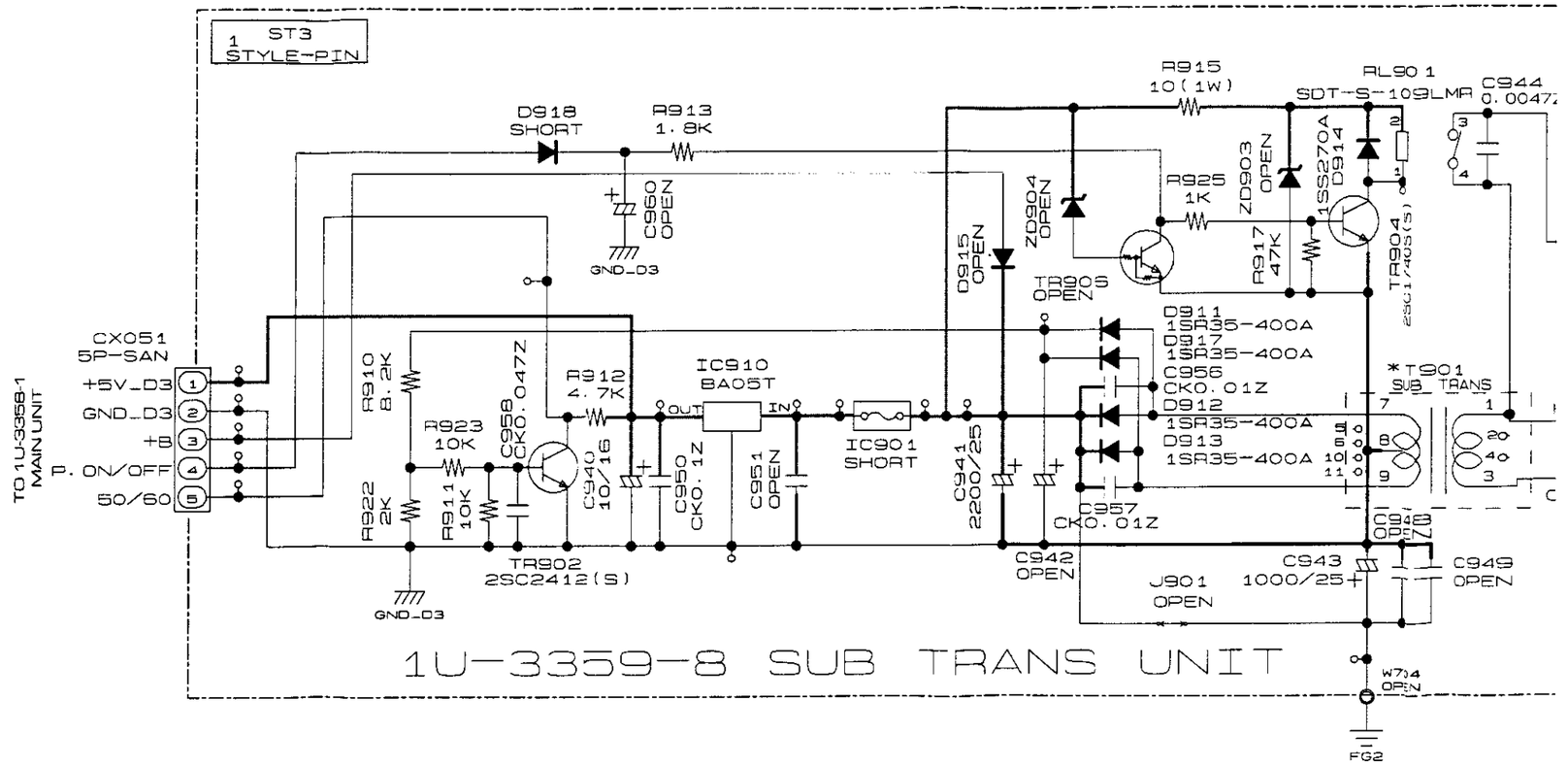
WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

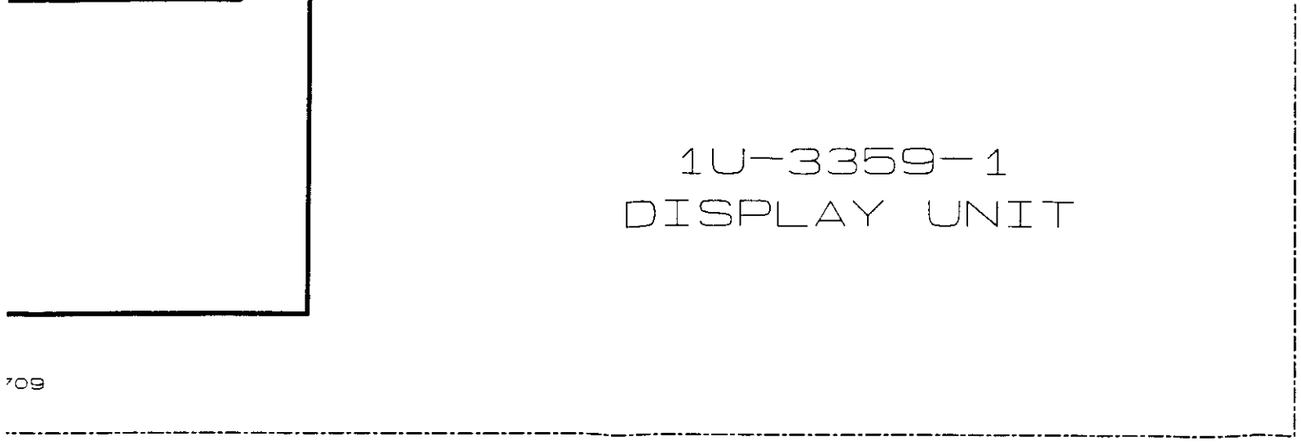
NOTICE
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASUERD AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

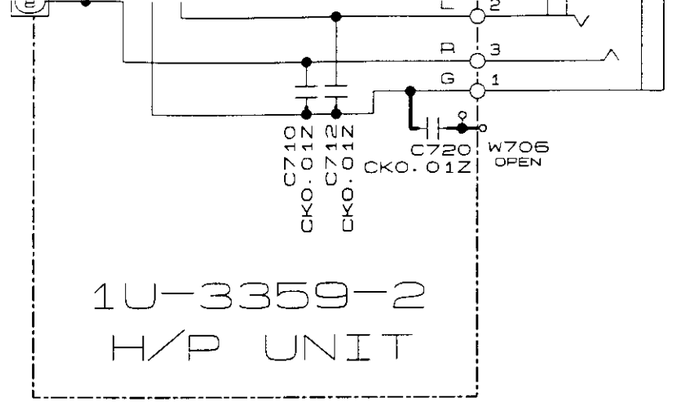
SCHEMATIC DIAGRAMS(6/8)
1U-3359-1 DISPLAY UNIT
1U-3359-2 H/P UNIT
1U-3359-8 SUB TRANS UNIT

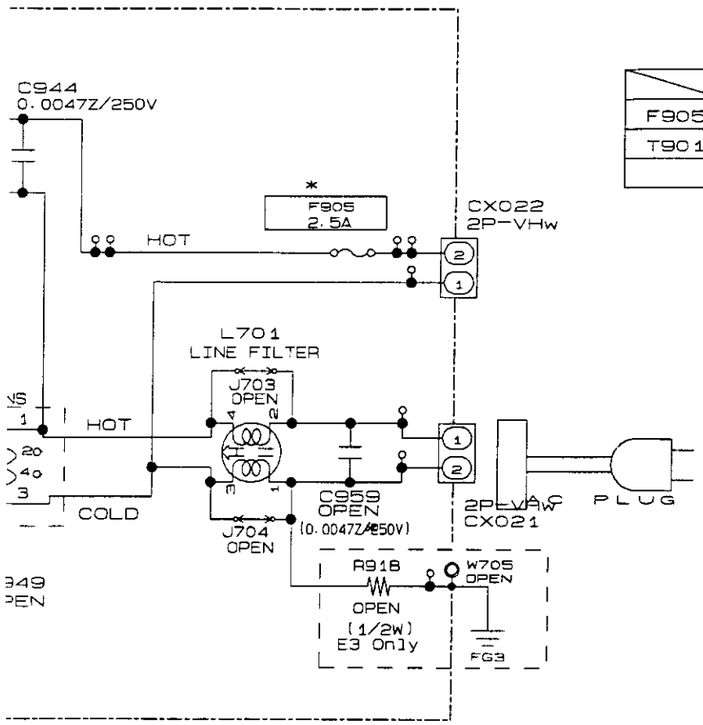

6
7
8
9
10
11
A
B
C
D
C713 CKO.01
C714 CKO.01
C716 CKO.01
C717 CKO.01
R714 10K
R715 10K
R717 100
R718 100
S712 ROTARY_ENCODER(F)
A 1
B 2
C
3
4
5
W710 OPEN
FG5
J701 SHORT
F2
F1
-30V
+5V_D2
+5V_D3
RESET.
FLDA.
FLCK.
FLCS.
GND_D2
KEYO.
KEY1.
REMOTE
JOGA
JOGB
VJOGA
VJOGB
17P-FFCs CX173
To 1U-3358-1 MAIN UNIT
J702 SHORT
W711 OPEN
FG5
R716 100
R725 10K
R720 100
R727 10K
VJOGA
VJOGB
S711 ROTALY ENCODER(V)
C721 CKO.01
C722 CKO.01
C723 CKO.01
C724 CKO.01
S713 ON/STB
C711 OPEN
CW082 8P-PH5
RED
GRN
LD701 SPR-54MVW
C719 CKO.01Z
JK701 MINI-JACK(ST.SW)
G
SW
L
R
G
To 1U-3358-1 MAIN UNIT


KEY0.
R702 150
R703 180
R704 270
R705 390
R706 510
R707 910
C718 CK1000P
C701 OPEN
S701 PLAY
S702 PAUSE
S703 A.S.FWD
S704 TIMER/SET
S705 SDB/TONE
S706 STATUS
KEY1.
R709 150
R710 180
R719 270
C702 CK1000P
S707 STOP
S708 OP/CL
S709 A.S.REV
S710 SUAR MODE
C715 OPEN
W709
FG4


1 ST3
STYLE-PIN
D918 SHORT
R913 1.8K
C960 OPEN
GND_D3
R915 10(1W)
RL901 SDT-S-109LMR
C944 0.0047
D915 OPEN
ZD904 OPEN
R925 1K
ZD903 OPEN
1SS270A D914
R917 47K
TR904 2SC1740S(S)
TR905 OPEN
D911 1SR35-400A
D917 1SR35-400A
C956 CKO.01Z
D912 1SR35-400A
D913 1SR35-400A
*T901 SUB TRANS
CX051 5P-SAN
+5V_D3
GND_D3
+B
ON/OFF
50/60
TO 1U-3358-1 MAIN UNIT
R910 8.2K
R923 10K
C958 CKO.047Z
R912 4.7K
IC910 BA05T
IN
OUT
R922 2K
R911 10K
C940 10/16
C950 CKO.1Z
C951 OPEN
IC901 SHORT
C941 2200/25
C957 CKO.01Z
C942 OPEN
TR902 2SC2412(S)
J901 OPEN
C943 1000/25
C949 OPEN
1U-3359-8 SUB TRANS UNIT
W714 OPEN
FG2







	E2	E3	J
F905	T1.6AL	2.5A/125V	4A/125V
T901	2336383004	2336384003	2330613000

+B LINE

–B LINE

WARNING:
Parts marked with this symbol ⚠ ▭ have critical characteristics.
Use ONLY replacement parts recommended by the manufacture.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

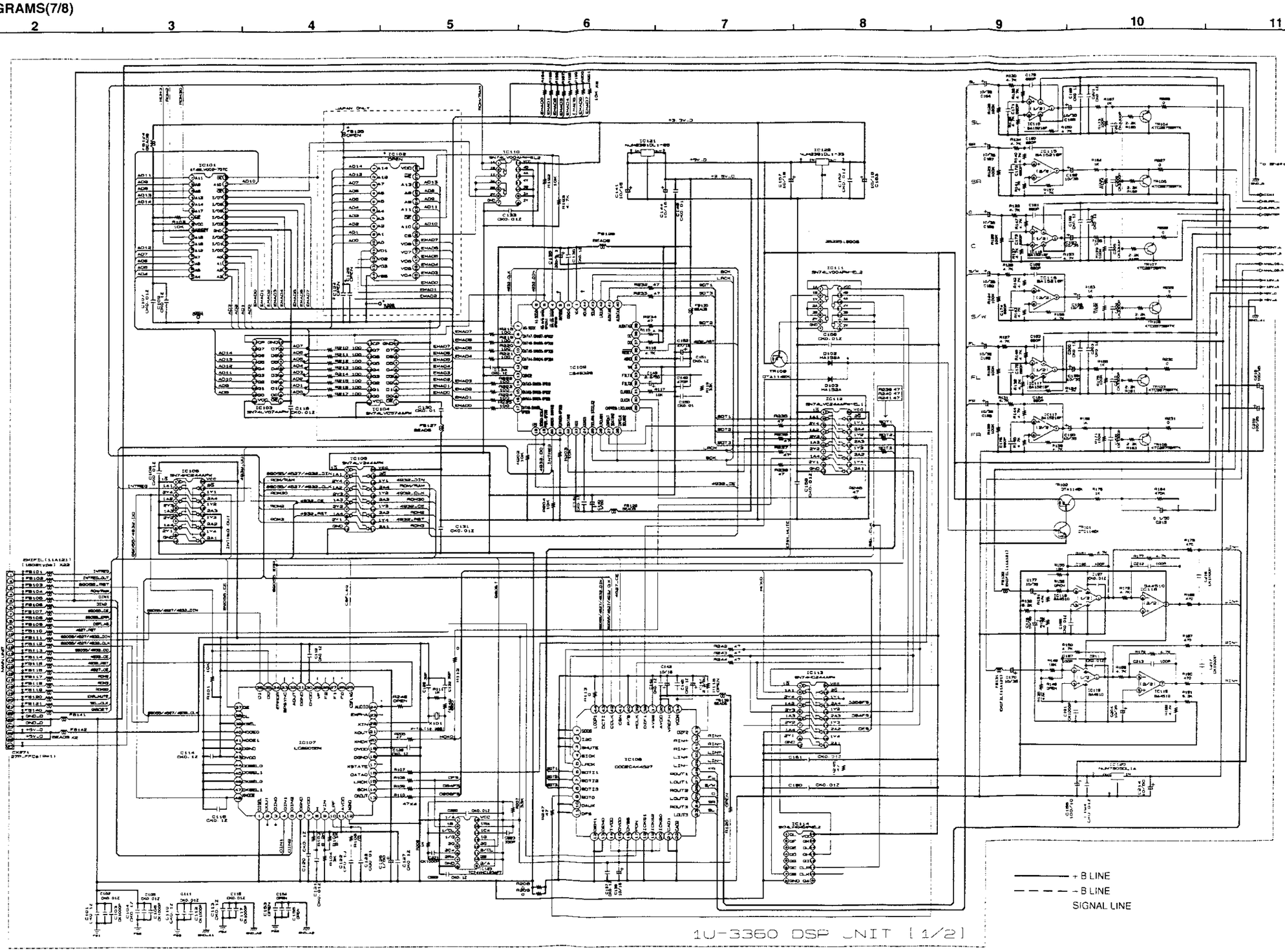
WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

NOTICE
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASUERD AT MO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

SCHEMATIC DIAGRAMS(6/8)

1U-3359-1 DISPLAY UNIT
1U-3359-2 H/P UNIT
1U-3359-8 SUB TRANS UNIT

SCHEMATIC DIAGRAMS(7/8)



NOTICE
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASUERD AT MO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

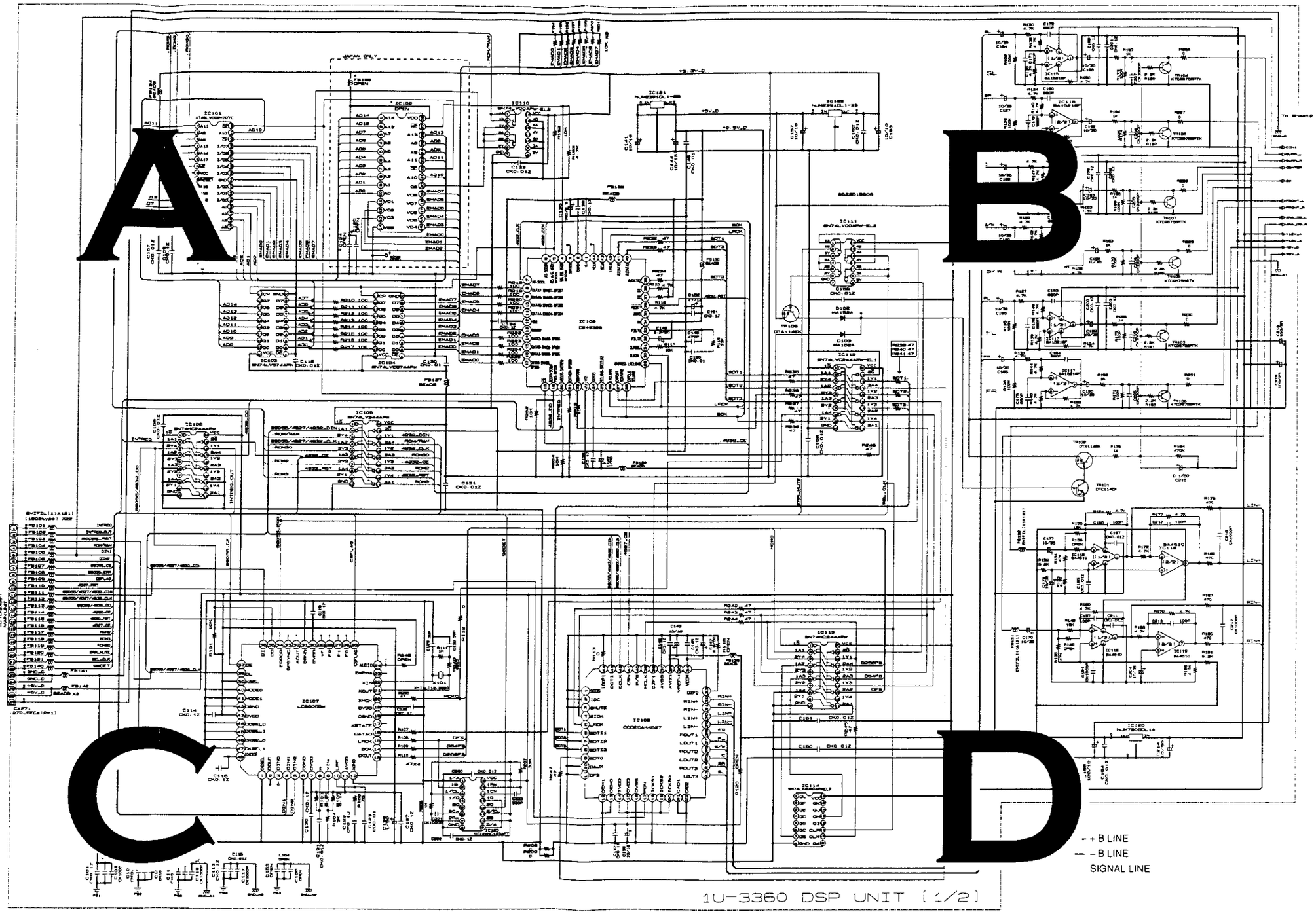
WARNING:
Parts marked with this symbol ⚠ have critical characteristics.
Use ONLY replacement parts recommended by the manufacture.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

SCHEMATIC DIAGRAMS(7/8)
1U-3360 DSP UNIT (1/2)

SCHEMATIC DIAGRAMS(7/8)



NOTICE
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASUERD AT MO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:
Parts marked with this symbol ⚠ have critical characteristics.
Use ONLY replacement parts recommended by the manufacture.

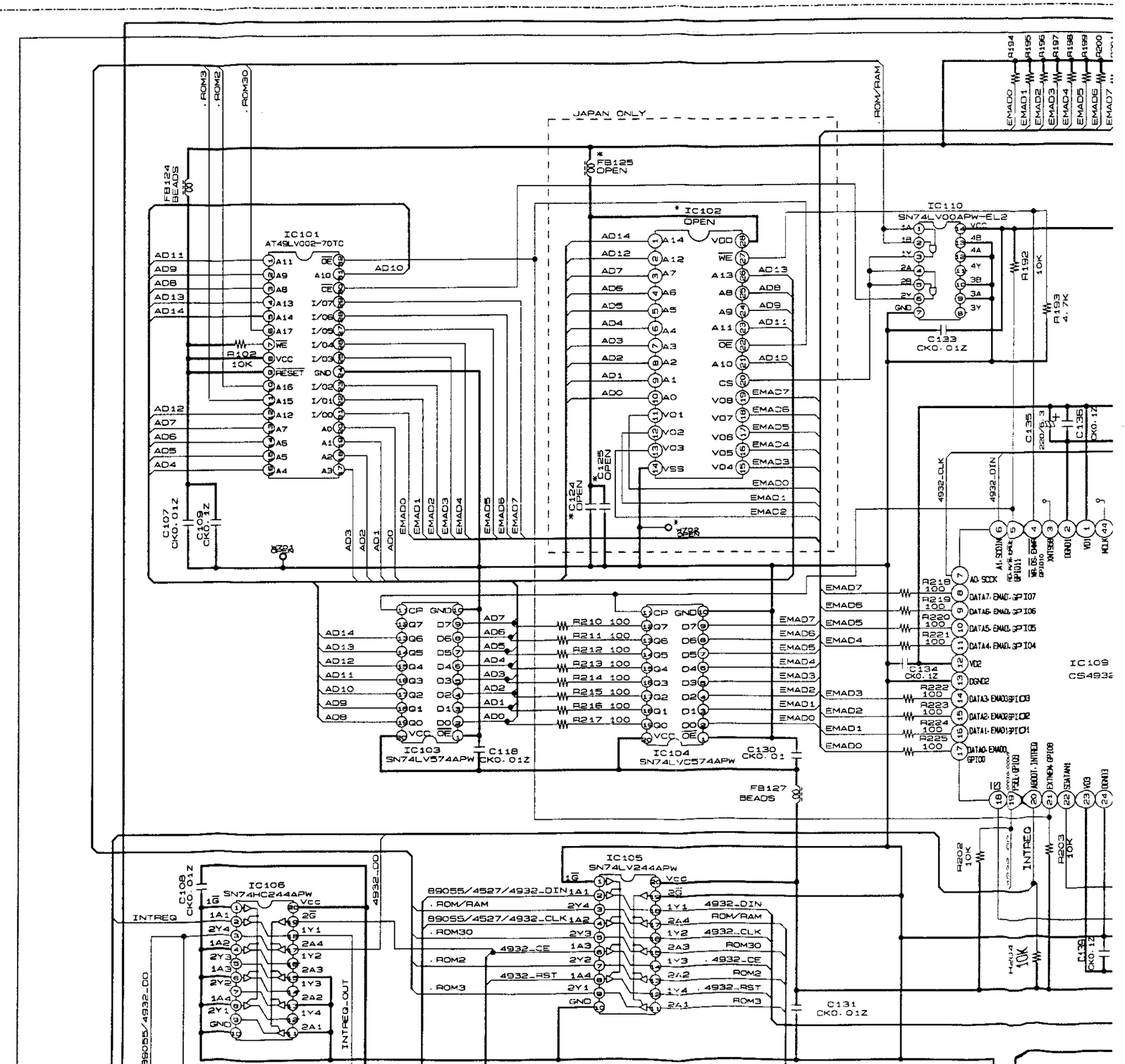
CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

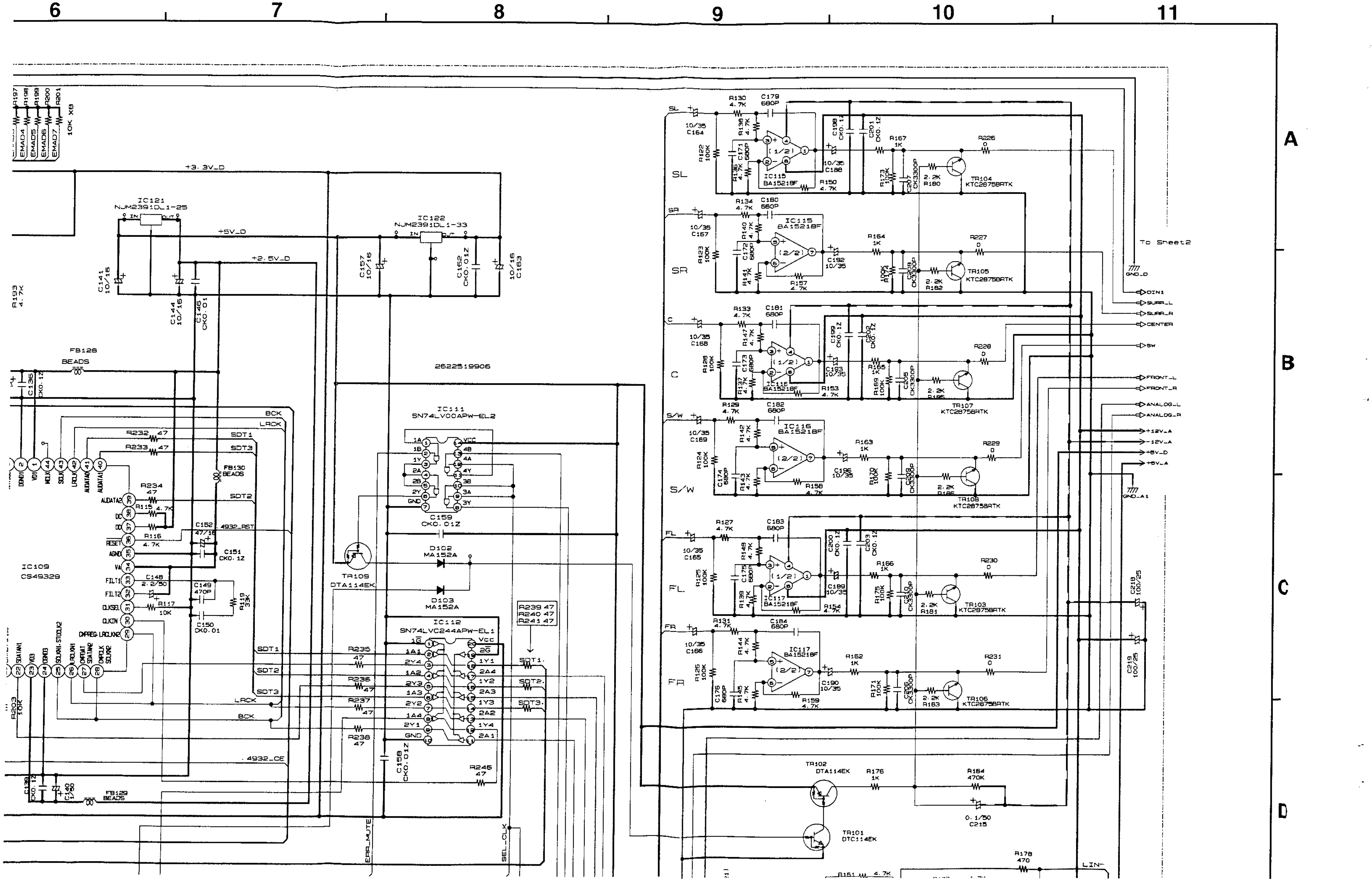
WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

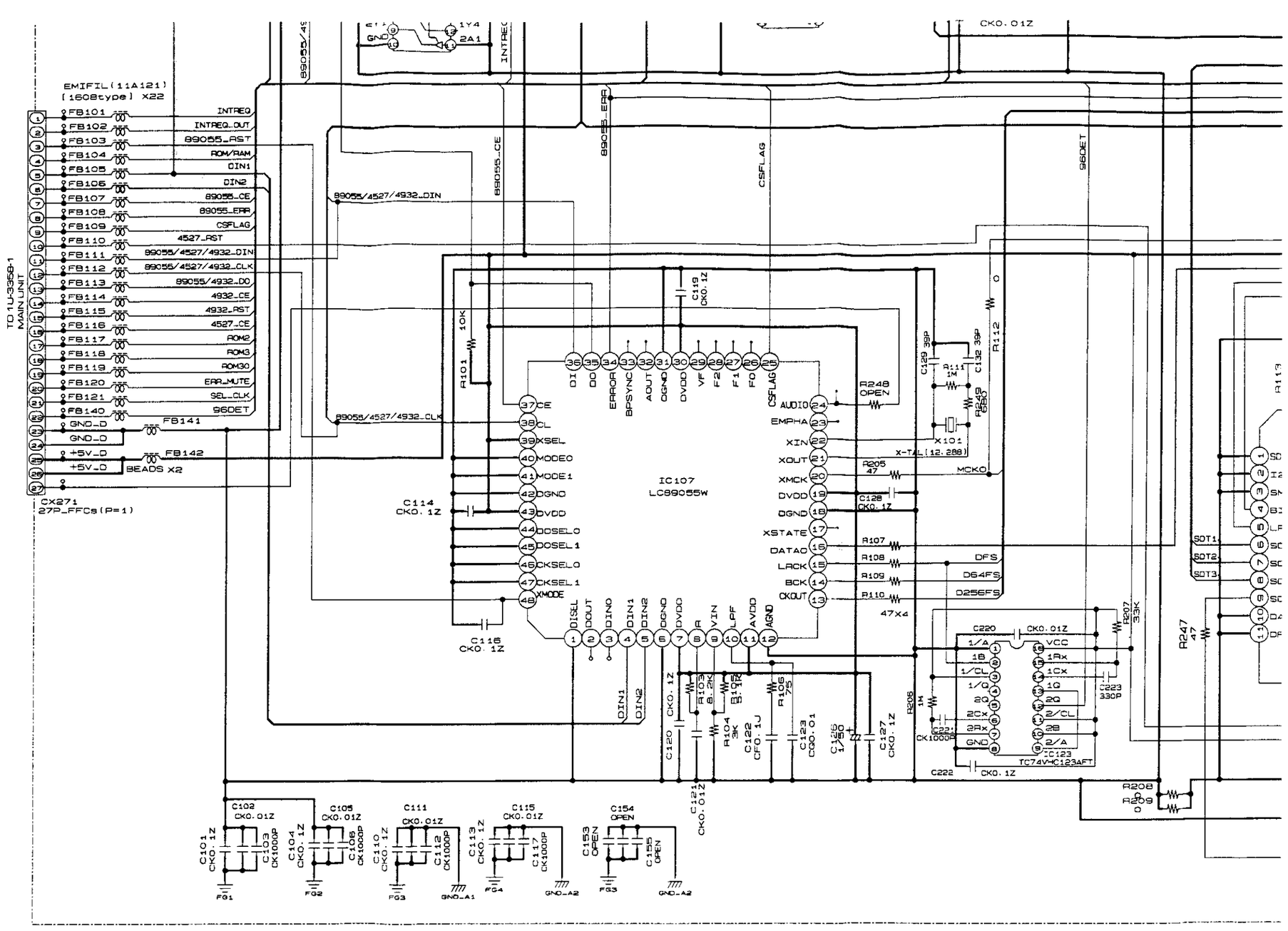
SCHEMATIC DIAGRAMS(7/8)
1U-3360 DSP UNIT (1/2)

SCHEMATIC DIAGRAMS(7/8)

1 2 3 4 5 6

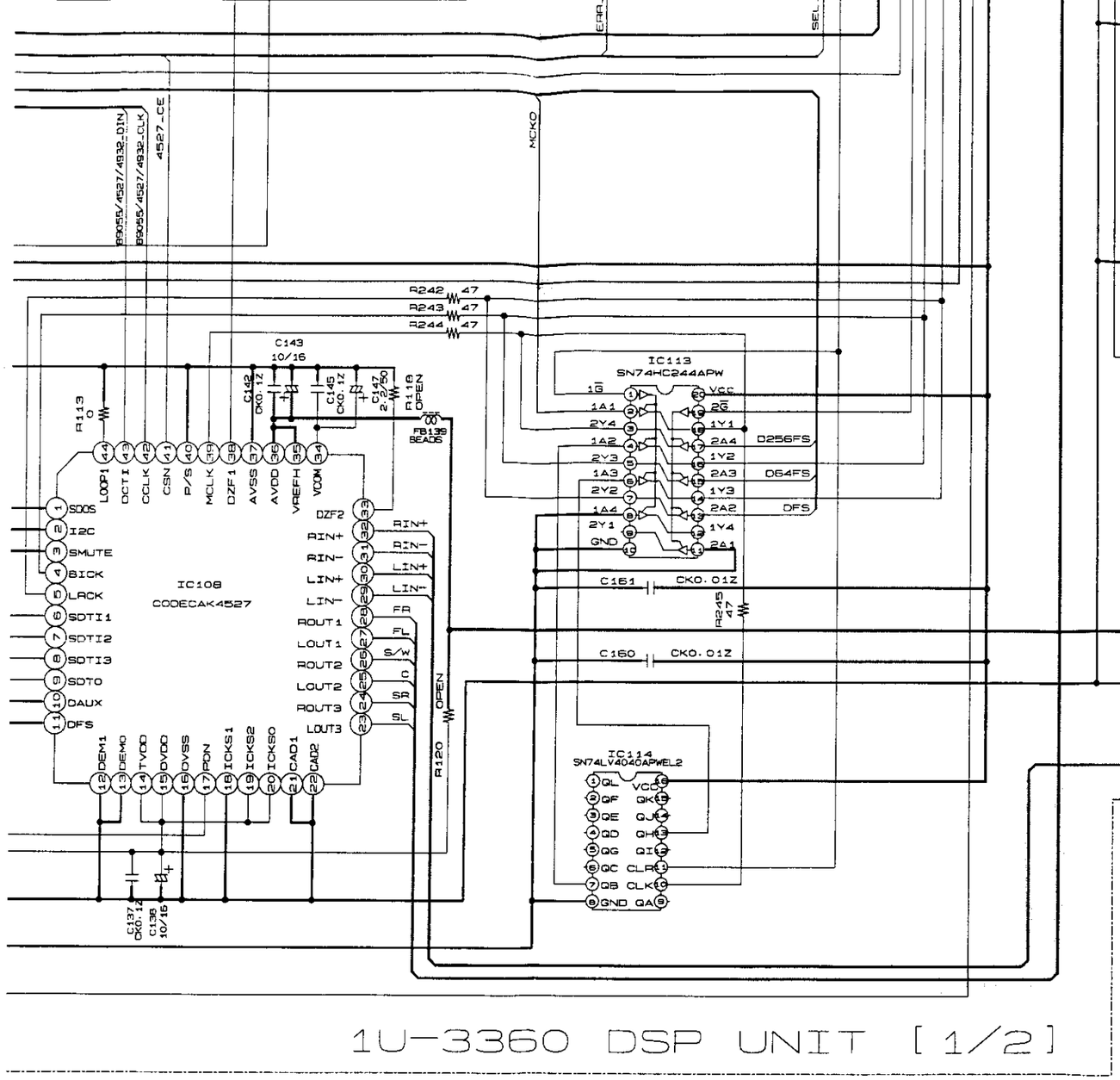



6
7
8
9
10
11
A
B
C
D
IC121
NJM2391DL1-25
IC122
NJM2391DL1-33
+3.3V_D
+5V_D
+2.5V_D
IC111
SN74LVC00APW-EL2
IC112
SN74LVC244APW-EL1
IC109
CS49329
TR109
DTA114EK
D102
MA152A
D103
MA152A
2622519906
FB128
BEADS
FB129
BEADS
FB130
BEADS
IC115
BA15218F
IC116
BA15218F
IC117
BA15218F
TR104
KTC2875BRTK
TR105
KTC2875BRTK
TR107
KTC2875BRTK
TR108
KTC2875BRTK
TR103
KTC2875BRTK
TR106
KTC2875BRTK
TR102
DTA114EK
TR101
DTC114EK
To Sheet2
SL
SR
C
S/W
FL
FR
SURR_L
SURR_R
CENTER
SW
FRONT_L
FRONT_R
ANALOG_L
ANALOG_R
+12V_A
-12V_A
+5V_D
+5V_A
GND_D
GND_A1
ERR_MUTE
SEL_CLK
4932_RST
4932_CE
SDT1
SDT2
SDT3
LRCK
BCK
LIN-



NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000
ALL CAPACITANCE VALUES IN MICRO FAR
EACH VOLTAGE AND CURRENT ARE MEAS
CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CH
NOTICE.



1U-3360 DSP UNIT [1/2]

k=1,000 OHM M=1,000,000 OHM
RO FARAD. P=MICRO-MICRO FARAD
E MEASUERD AT MO SIGNAL INPUT

TO CHANGE WITHOUT PRIOR

WARNING:
Parts marked with this symbol ⚠ have critical characteristics.
Use ONLY replacement parts recommended by the manufacture.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

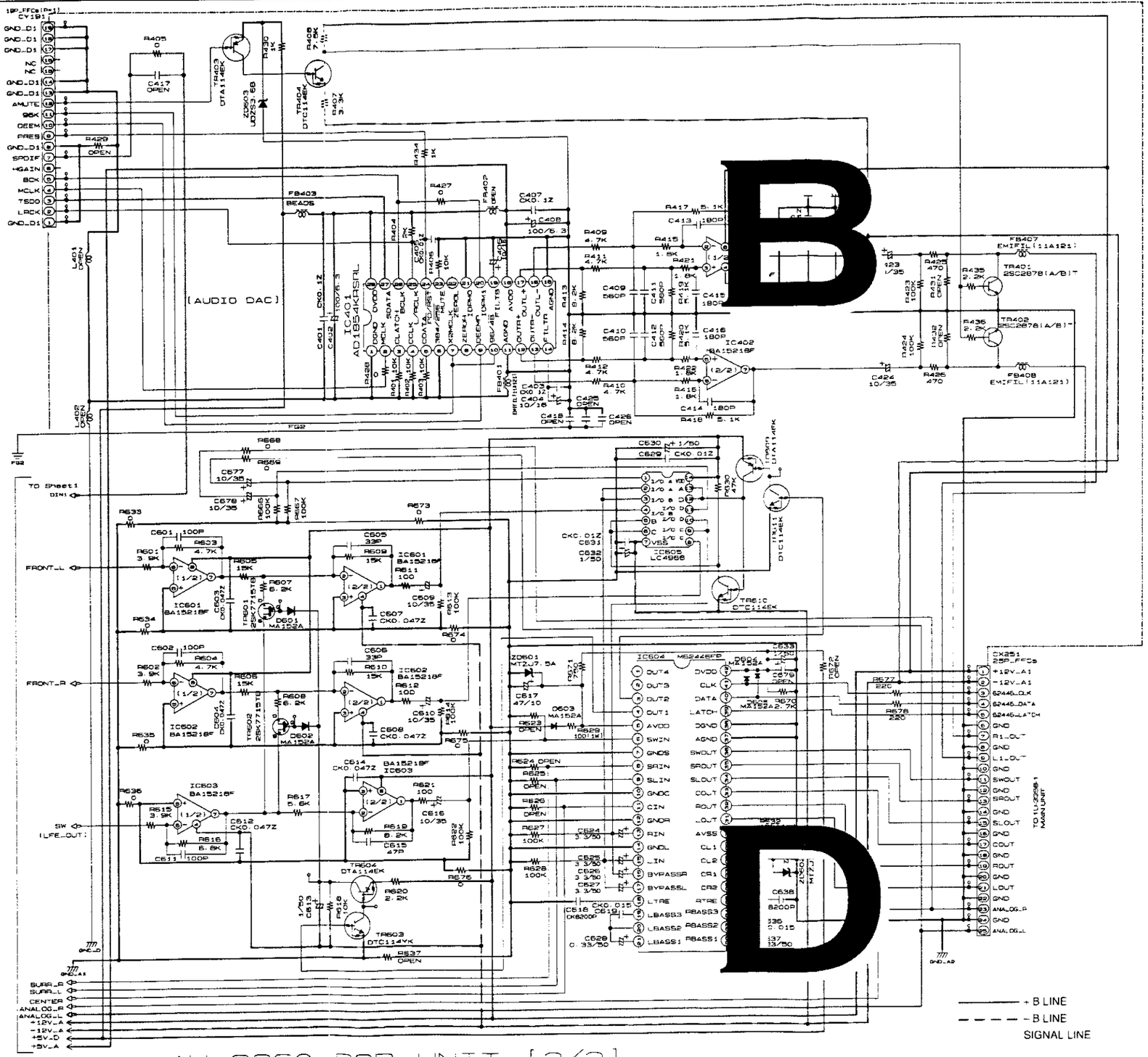
WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

SCHEMATIC DIAGRAMS(7/8)
1U-3360 DSP UNIT (1/2)

SCHEMATIC DIAGRAMS(8/8)

1 2 3 4 5 6 7 8 9 10 11

A B C D



1U-3360 DSP UNIT [2/2]

NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASUERD AT MO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:

Parts marked with this symbol ⚠ have critical characteristics.
Use ONLY replacement parts [illegible] manufacture.

CAUTION:

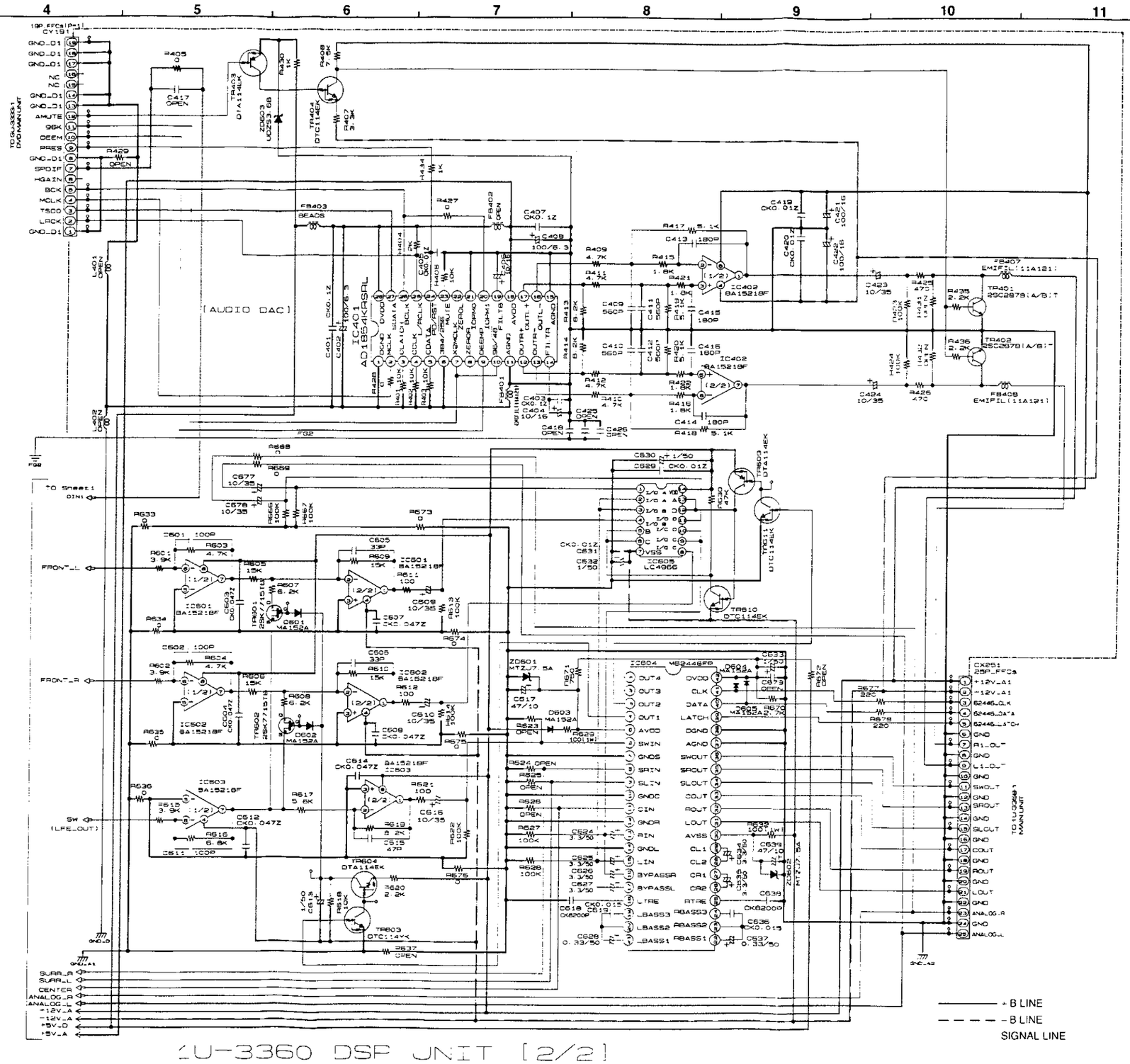
Before returning the unit [illegible] make sure [illegible] ner (1) a leakage current check [illegible] chassis resistance [illegible] if the leakage current exceeds 0.5 m[illegible] the resistance from chas[illegible]s to either side of the power card is l[illegible] 0kohms, the unit is defective.

WARNING:

DO NOT return the u[illegible] istomer until the problem is located and corrected.

SCHEMATIC DIAGRAMS(8/8)
1U-3360 DSP UNIT (2/2)

SCHEMATIC DIAGRAMS(8/8)



1U-3360 DSP UNIT [2/2]

NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASUERD AT MO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:

Parts marked with this symbol ⚠ have critical characteristics.
Use ONLY replacement parts recommended by the manufacture.

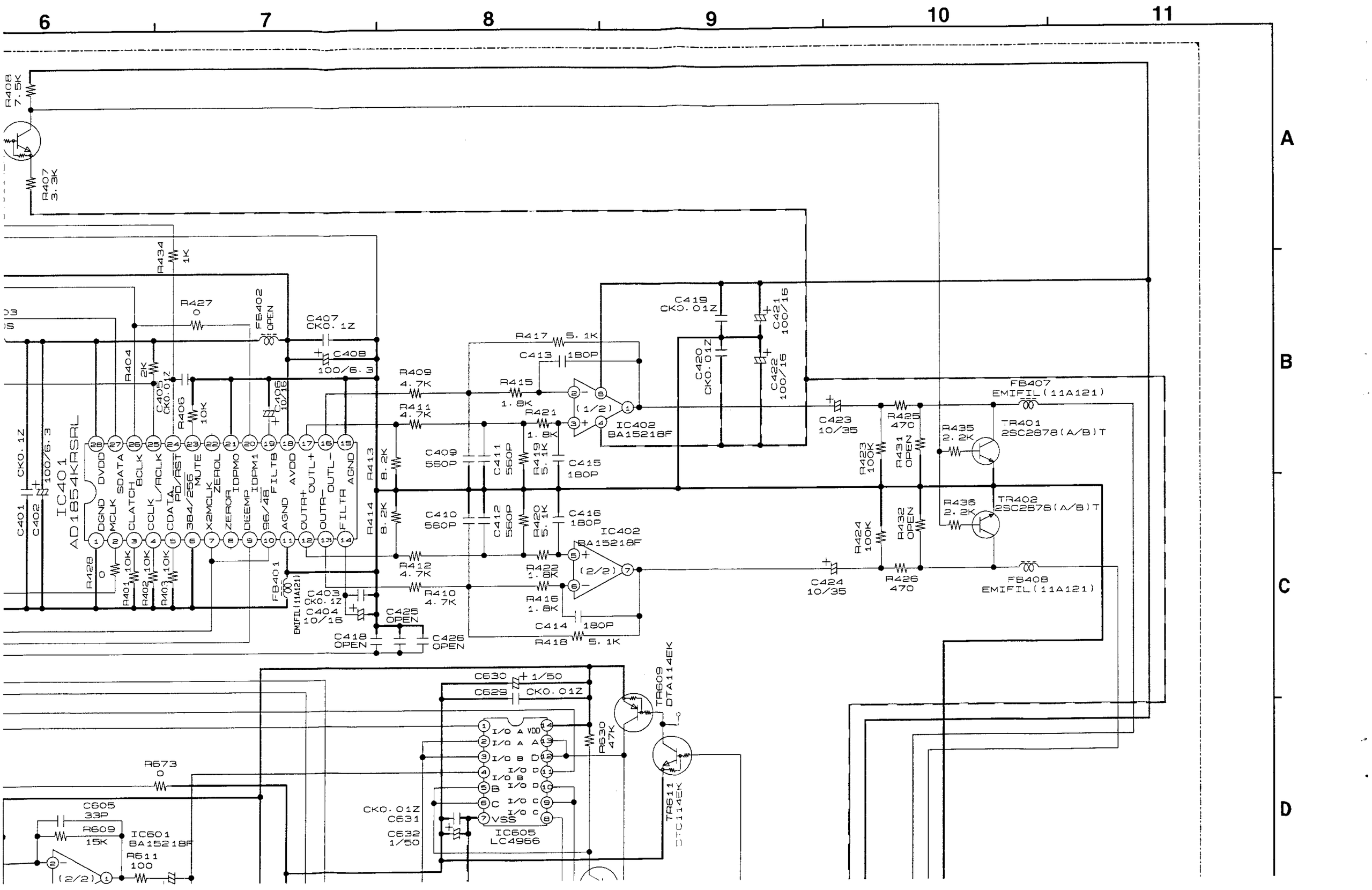
CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

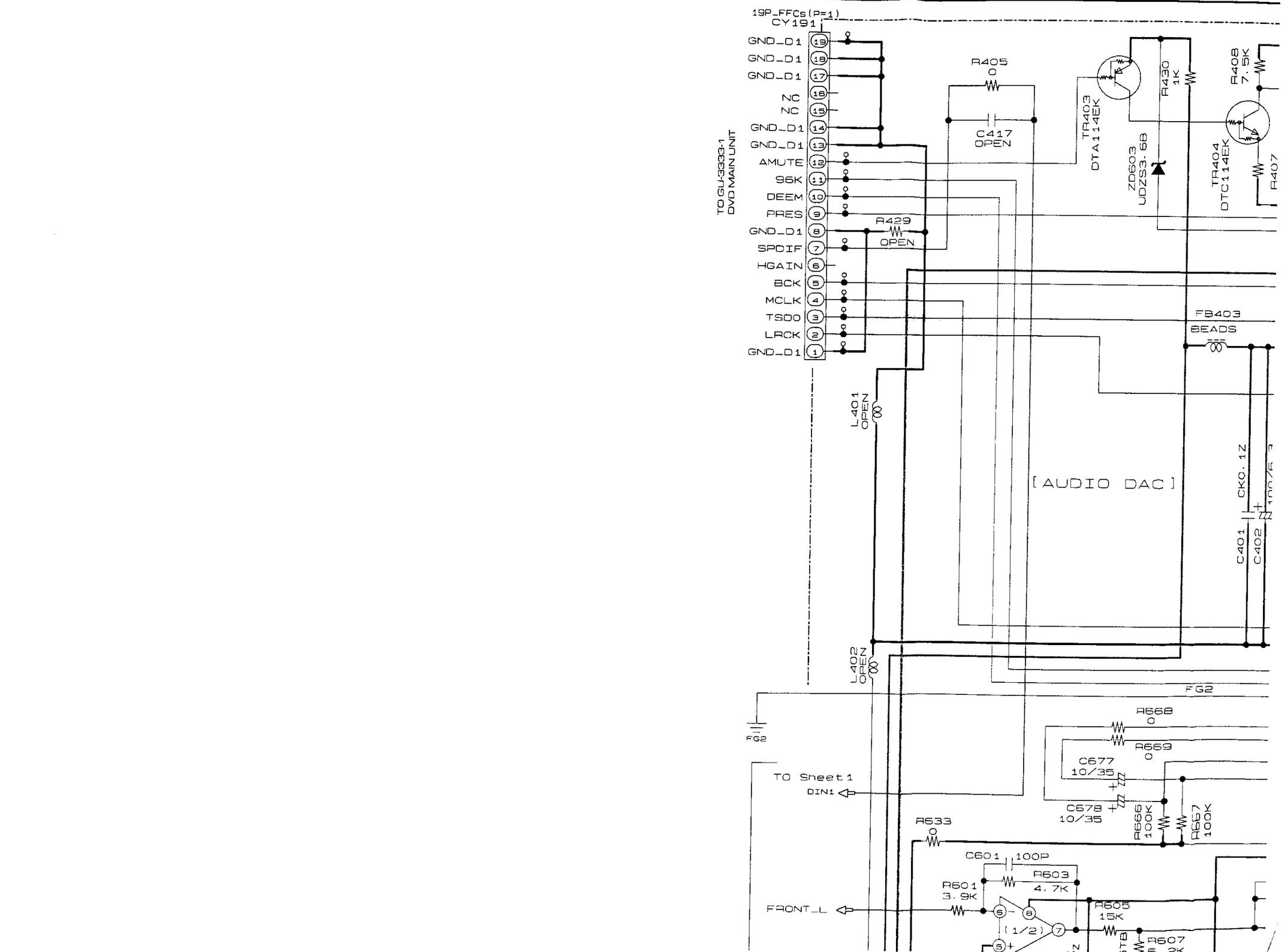
WARNING:

DO NOT return the unit to the customer until the problem is located and corrected.

SCHEMATIC DIAGRAMS(8/8)
1U-3360 DSP UNIT (2/2)


6
7
8
9
10
11
A
B
C
D
R408 7.5K
R407 3.3K
R434 1K
R427 0
FB402 OPEN
C407 CKO.1Z
C408 100/6.3
R404 2K
C405 CKO.01Z
R406 10K
C406 10/16
R409 4.7K
R411 4.7K
R413 8.2K
R414 8.2K
R412 4.7K
R410 4.7K
C403 CKO.1Z
C404 10/16
C425 OPEN
C418 OPEN
C426 OPEN
C401 CKO.1Z
C402 100/6.3
IC401
AD1854KRSRL
DGND DVDD MCLK SDATA CLATCH BCLK CCLK L/RCLK CDATA PD/RST 384/256 MUTE X2MCLK ZEROL ZEROR IDPMO DEEMP IDPM1 96/48 FILTB AGND AVDD AGND OUTR+ OUTL+ OUTR- OUTL- FILTR AGND
R428 0
R401 10K
R402 10K
R403 10K
FB401 EMIFIL(11A121)
R417 5.1K
C413 180P
R415 1.8K
R421 1.8K
C409 560P
C411 560P
R419 5.1K
C415 180P
C410 560P
C412 560P
R420 5.1K
C416 180P
R422 1.8K
R416 1.8K
C414 180P
R418 5.1K
IC402 BA15218F (1/2)
IC402 BA15218F (2/2)
C419 CKO.01Z
C420 CKO.01Z
C421 100/16
C422 100/16
C423 10/35
C424 10/35
R425 470
R426 470
R423 100K
R424 100K
R431 OPEN
R432 OPEN
R435 2.2K
R436 2.2K
TR401 2SC2878(A/B)T
TR402 2SC2878(A/B)T
FB407 EMIFIL(11A121)
FB408 EMIFIL(11A121)
C630 1/50
C629 CKO.01Z
TR609 DTA114EK
R630 47K
TR611 DTC114EK
I/O A VDD
I/O A A
I/O B D
I/O D
I/O B
B I/O D
C I/O C
VSS I/O C
IC605 LC4966
CKO.01Z C631
C632 1/50
R673 0
C605 33P
R609 15K
IC601 BA15218F (2/2)
R611 100

SCHEMATIC DIAGRAMS(8/8)



NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASUERD AT MO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:

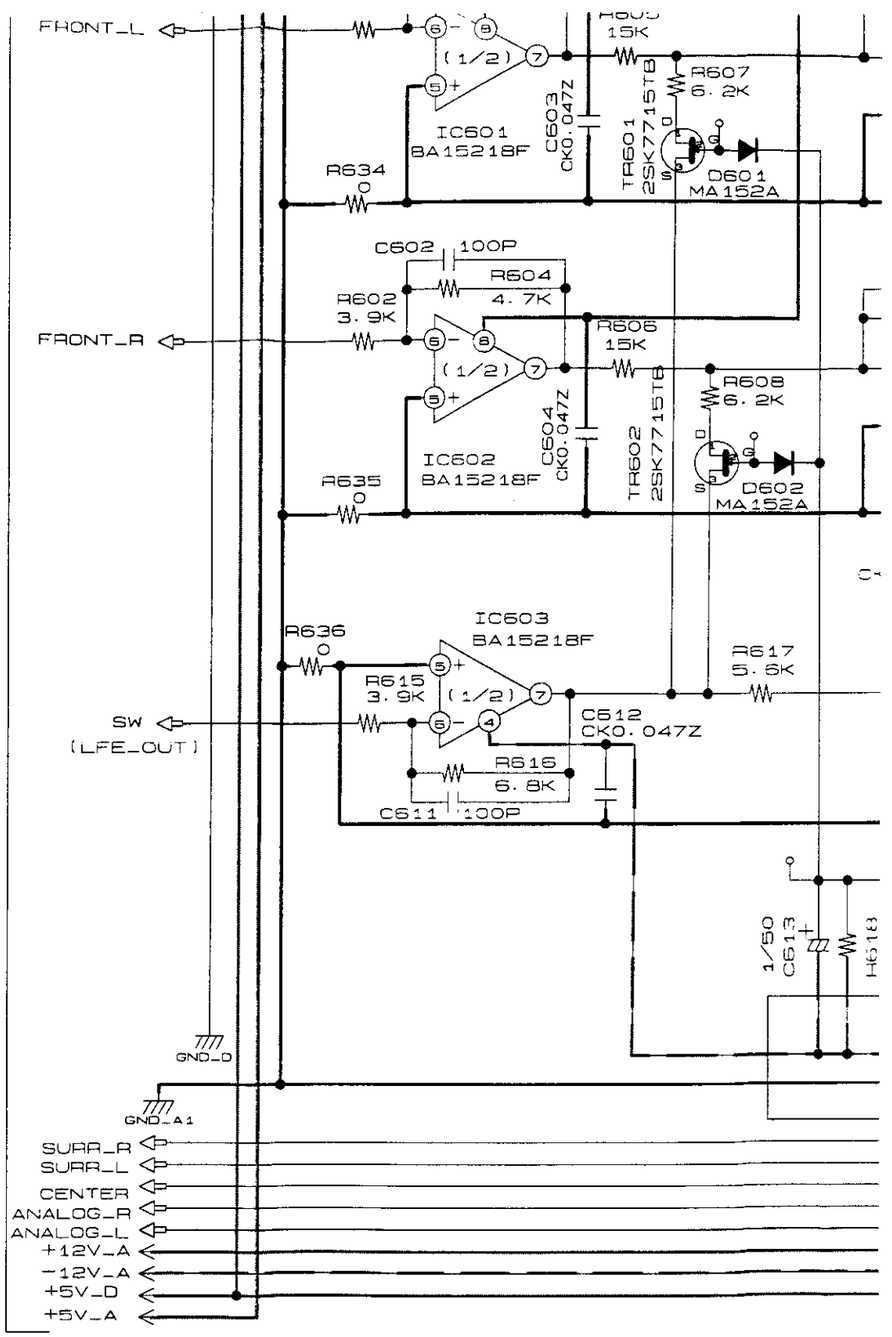
Parts marked with this symbol ⚠ ▭ have critical characteristics.
Use ONLY replacement parts recommended by the manufacture.

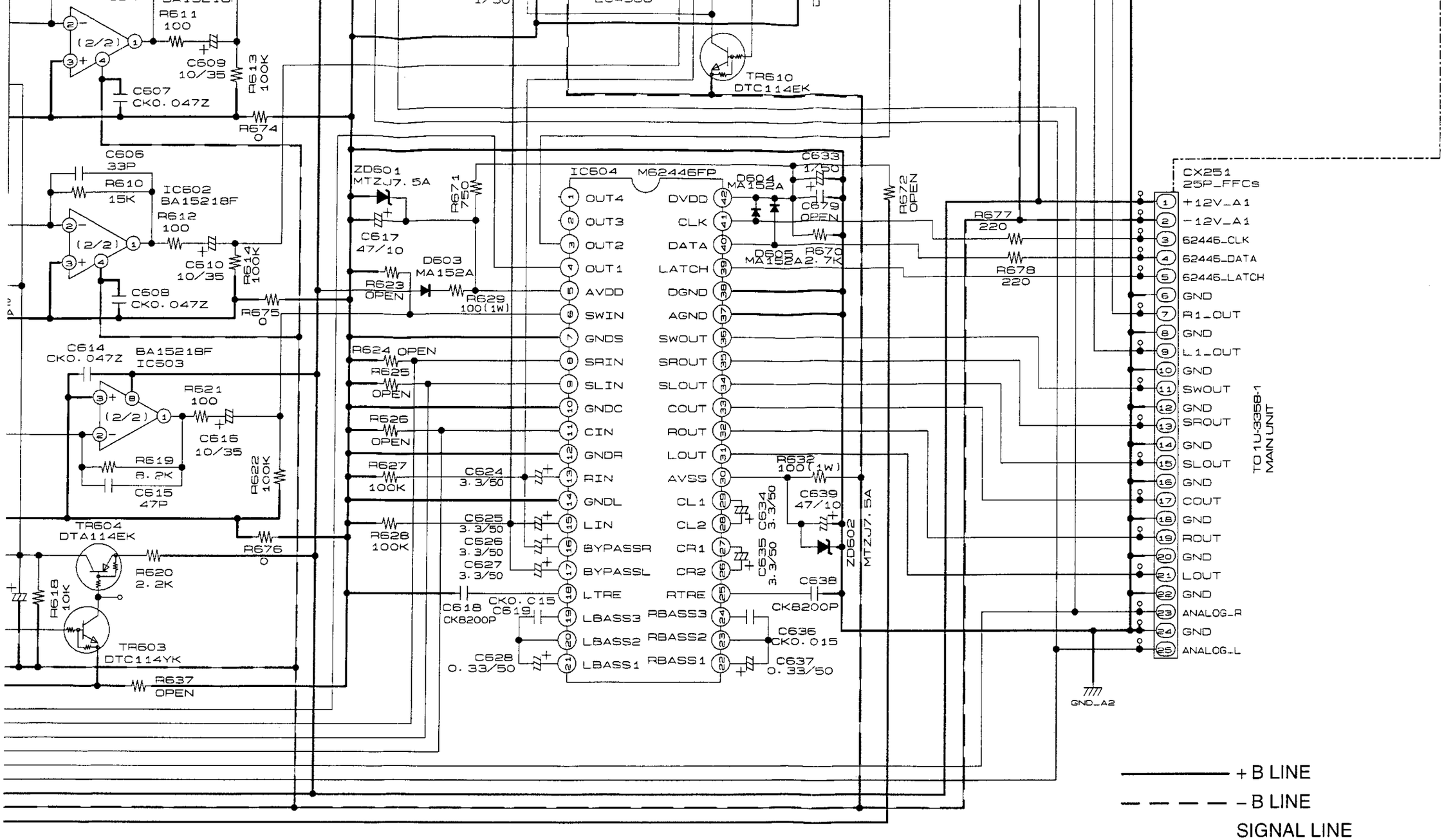
CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

WARNING:

DO NOT return the unit to the customer until the problem is located and corrected.





+ B LINE

– B LINE

SIGNAL LINE

DSP UNIT [2/2]

SCHEMATIC DIAGRAMS(8/8)

1U-3360 DSP UNIT (2/2)