

DENON

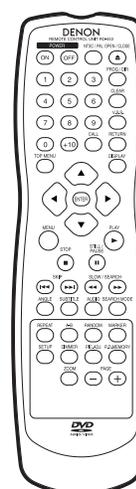
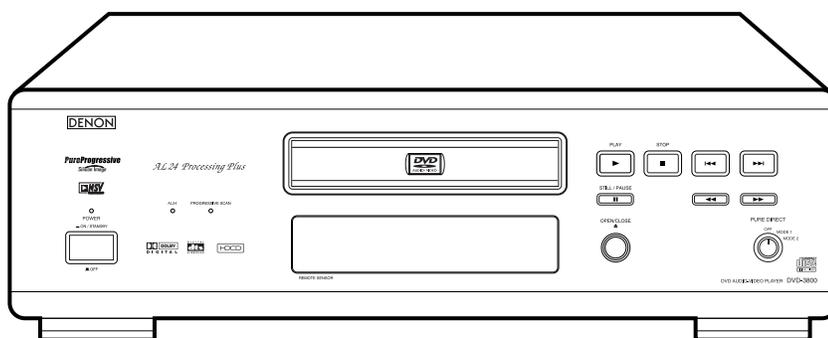
For U.S.A., Canada, Europe,
Asia & Korea model

Digital Player

SERVICE MANUAL

MODEL DVD-3800

DVD AUDIO-VIDEO PLAYER



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

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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

Signal System:	NTSC/PAL
Applicable Discs:	(1) DVD-Audio/DVD-Video discs 1-layer 12 cm single-sided discs, 2-layer 12 cm single-sided discs, 2-layer 12 cm 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
S-Video Output:	Y output level: 1 Vp-p (75 Ω /ohms) C output level: 0.286 Vp-p (For U.S.A., Canada, Asia & Korea model) 0.3 Vp-p (For Europe model) Output connectors: S connectors, 2 setS AV 1 connector, 1 set (For Europe model)
Video Output:	Output level: 1 Vp-p (75 Ω /ohms) Output connector: Pin-plug jacks, 2 setS AV 1 connector, 1 set/AV2 connector, 1 set (For Europe model)
Component Output:	Y output level: 1 Vp-p (75 Ω /ohms) PB/CB output level: 0.648 Vp-p (75 Ω /ohms) (For U.S.A., Canada, Asia & Korea model) 0.7 Vp-p (75 Ω /ohms) (For Europe model) PR/CR output level: 0.648 Vp-p (75 Ω /ohms) (For U.S.A., Canada, Asia & Korea model) 0.7 Vp-p (75 Ω /ohms) (For Europe model) Output connector: Pin jack, 1 set
RGB Output:	Output level: 0.7 Vp-p (75 Ω /ohms) (For Europe model) Output connector: AV 1 connector, 1 set (For Europe model)
Audio Output:	Output level: 2 Vrms 2 channel (FL, FR) output connector: Pin jacks, 2 sets Multi channel (C, SW, SL, SR) output connector: Pin jack, 1 set AV 1, 1 set/AV 2, 1 set (For Europe model)
Audio Output Properties:	(1) Frequency response ① DVDs (linear PCM) : 2 Hz to 22 kHz (48 kHz sampling) : 2 Hz to 44 kHz (96 kHz sampling) : 2 Hz to 88 kHz (192 kHz sampling) ② CDs : 2 Hz to 20 kHz (2) S/N ratio ① DVDs : 116 dB ② CDs : 116 dB (3) Total harmonic distortion ① DVDs : 0.0015 % ② CDs : 0.0018 % (4) Dynamic range ① DVDs : 108 dB ② CDs : 100 dB
Digital Audio Output:	Optical digital output : Optical connector, 1 set Coaxial digital output : Pin jack, 1 set
Power Supply:	AC 120 V, 60 Hz (For U.S.A. & Canada model) AC 230 V, 50 Hz (For Europe & Asia model) AC 220 V, 50 Hz (For China model) AC 220 V, 60 Hz (For Korea model)
Power Consumption:	30 W (For U.S.A. & Canada model) 32 W (For Europe, Asia & Korea model)
Maximum External Dimensions:	434 (W) \times 132 (H) \times 343 (D) mm (including protruding parts)
Mass:	10.0 kg
Remote Control Unit:	RC-553
Type:	Infrared pulse
Power Supply:	DC 3 V, 2 "AA" /R6P batteries

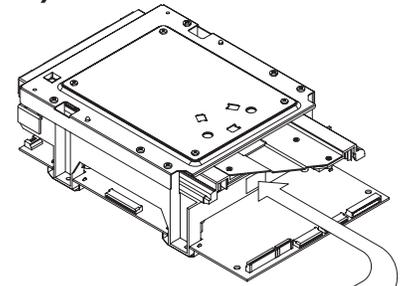
* Design and specifications are subject to change without notice in the course of product improvement.

Iop Measurement Method (Diagnostics of Traverse Unit)

Diagnostics of optical pickup (Replacing Traverse Unit) as shown as below.

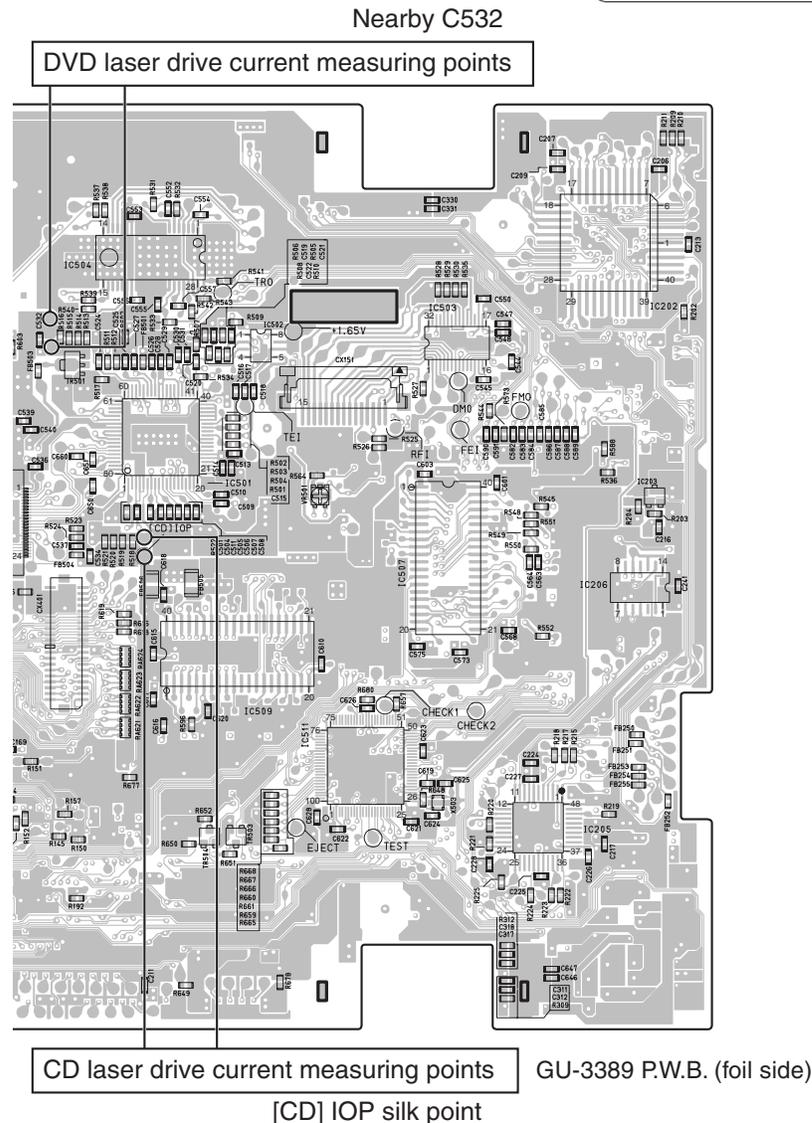
1. Arrange of Judgment

- (1) Check read discs
Disc no read, unsteady playback, etc.
- (2) Laser current (Iop) check
Check the Iop (Laser drive current).
If the present Iop value exceeds +50% of the initial value,
replace the Traverse Unit with a new one.
- (3) Replacing the Traverse Unit
Traverse Unit replacing (See page 8 and 9).
No mechanical adjustment is necessary after the replacement.



DVD _____ mA
CD _____ mA
Laser current initial value

2. Iop Measurement Method



- (1) DVD laser current measurement
 - Playback the title 1/chapter 1 of DVD test disc (DVDT-S01) or the equivalent.
 - Connect the oscilloscope to the above mentioned point.
 - DVD laser current = Measured Voltage Value / 39 (Resistance Value)
- (2) CD laser current measurement
 - Playback the track 1 of CD test disc (TCD-784) or the equivalent.
 - Connect the oscilloscope to the above mentioned point.
 - CD laser current value = Measured Voltage Value / 39 (Resistance Value)

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 should 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.

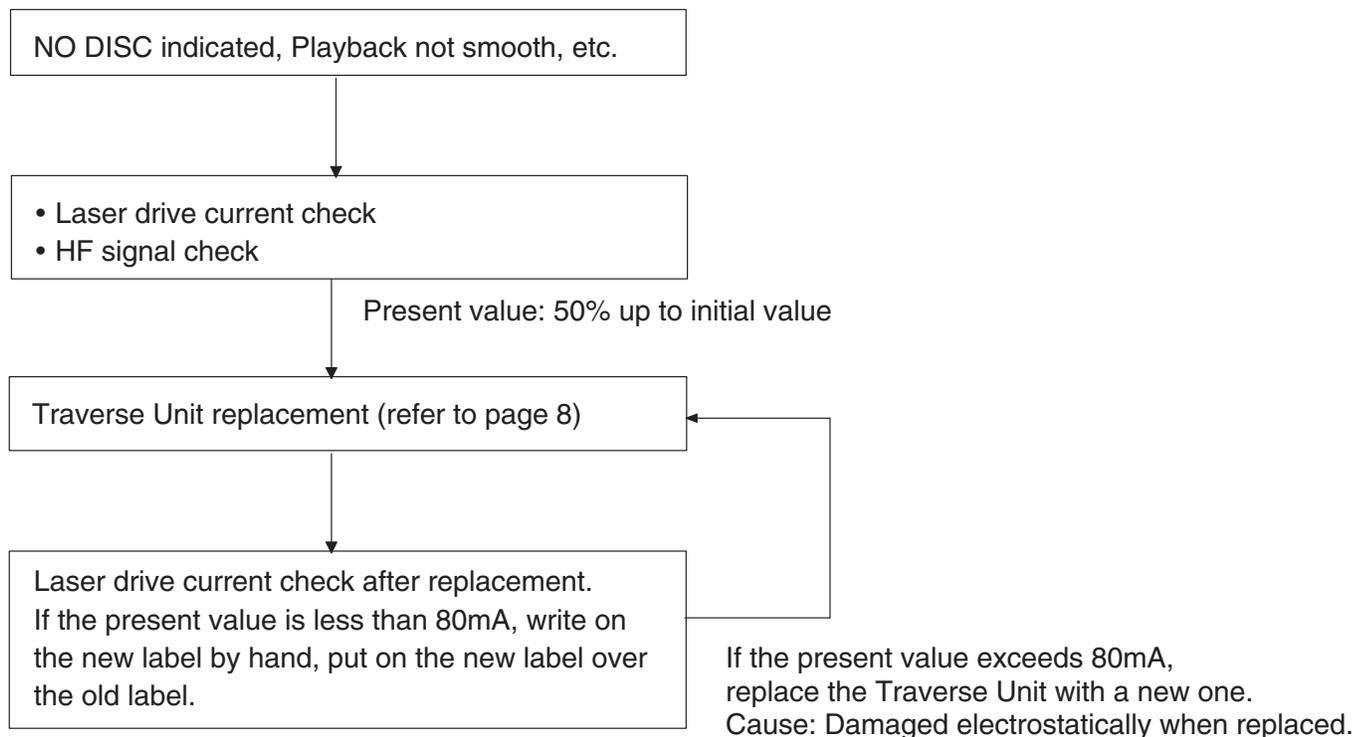
Replacement of the Traverse Unit

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.

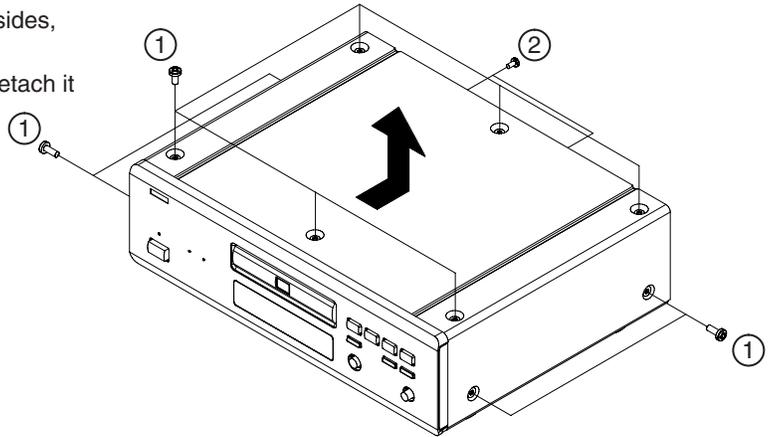


DISASSEMBLY

(Follow the procedure below in reverse order when reassembling)

1. Top Cover

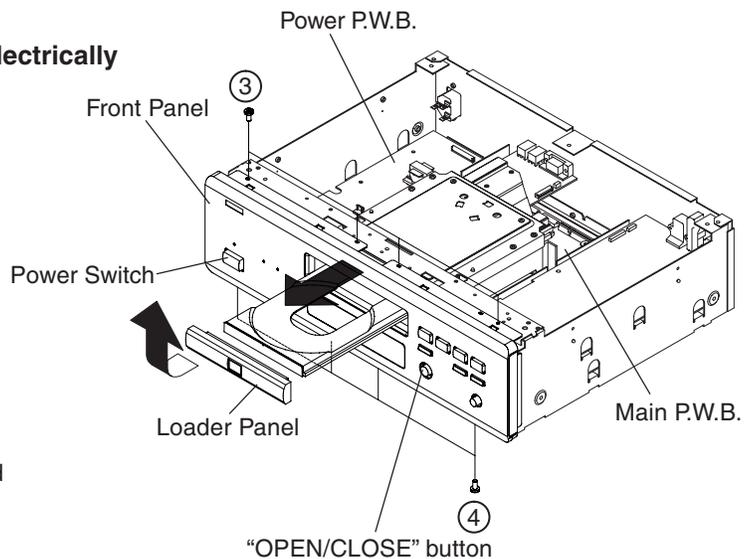
- (1) Remove 10 screws ① on the top and both sides, and 2 screws ② on the rear.
- (2) Widen the Top Cover a little laterally, then detach it with sliding in the arrow direction.



2. Loader Panel, Front Panel

2-1. When the Disc Tray can be ejected electrically

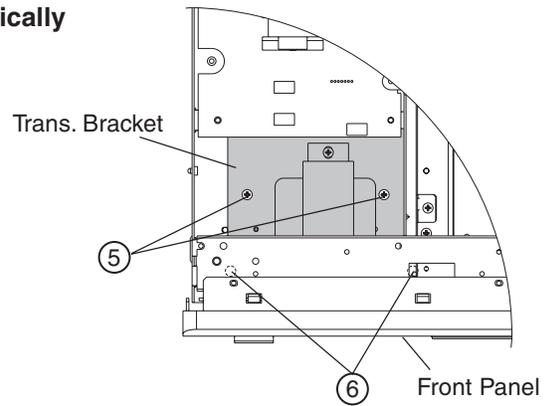
- (1) After removing the Top Cover, proceed as follows.
- (2) Plug the power cord to the wall outlet, switch on the power, and press the "OPEN/CLOSE" button to open the Disc Tray.
- (3) Detach the Loader Panel by lifting it in the arrow direction.
- (4) Press the "OPEN/CLOSE" button to close the Disc Tray, then unplug the power cord.
- (5) Disconnect the wire (CX025, CX041) connecting the Front Panel's P.W.B. and the Power PWB in the Chassis.
- (6) Remove 4 top screws ③ and 4 bottom screws ④, then detach the Front Panel to the arrow direction.
- (7) Disconnect the FFC (CX171) connecting the Front Panel's P.W.B. and the Main P.W.B. in the Chassis.



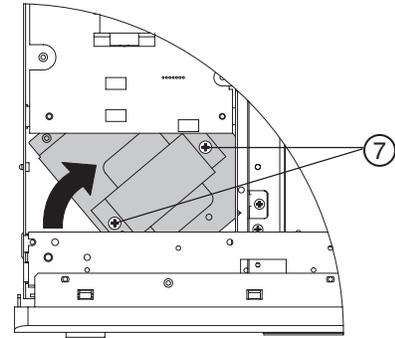
2-2. When the Disc Tray cannot be ejected electrically

(1) After removing the Top Cover, proceed as follows.

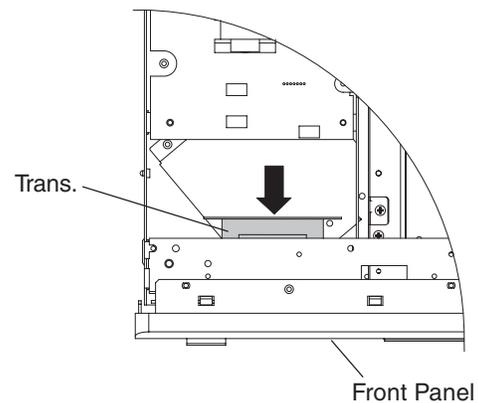
(2) Remove 2 screws ⑤ on the Trans. Bracket and 2 bottom screws ⑥.



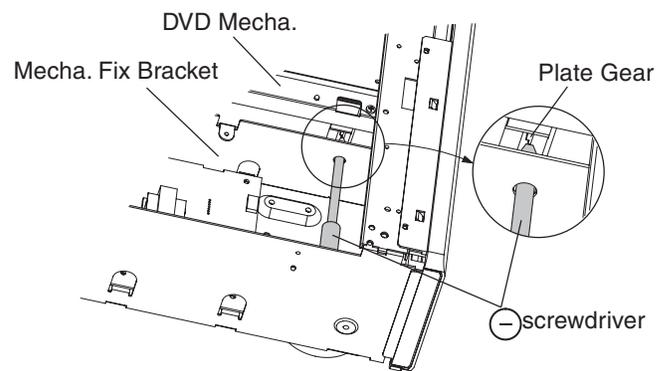
(3) Turn the Trans. and Bracket to the arrow direction, then remove 2 screws ⑦.



(4) Move the Trans. toward the Front Panel.

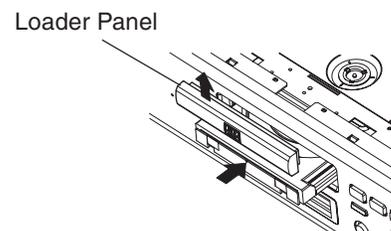


(5) Insert a screwdriver \ominus into the left hole of the Mecha. Fix Bracket, and push the Plate Gear of the DVD Mecha. slowly to open the Disc Tray.



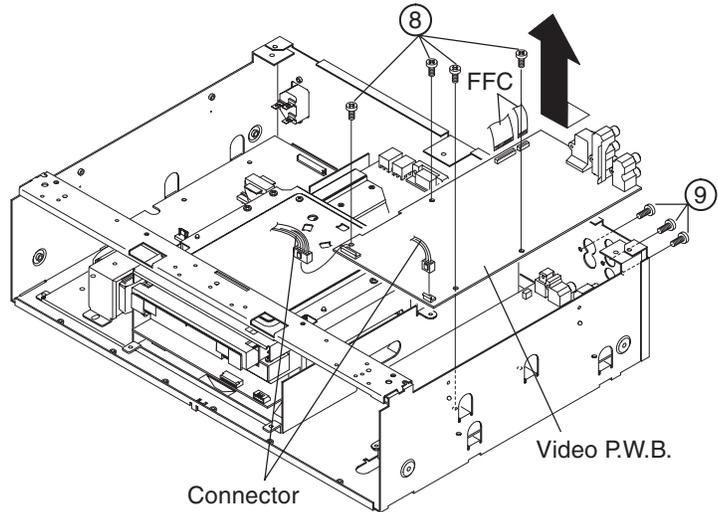
(6) Remove the Loader Panel, and close the Disc Tray.

(7) Detach the Front Panel following the same steps described on the previous page 2-1. (5)~(7).



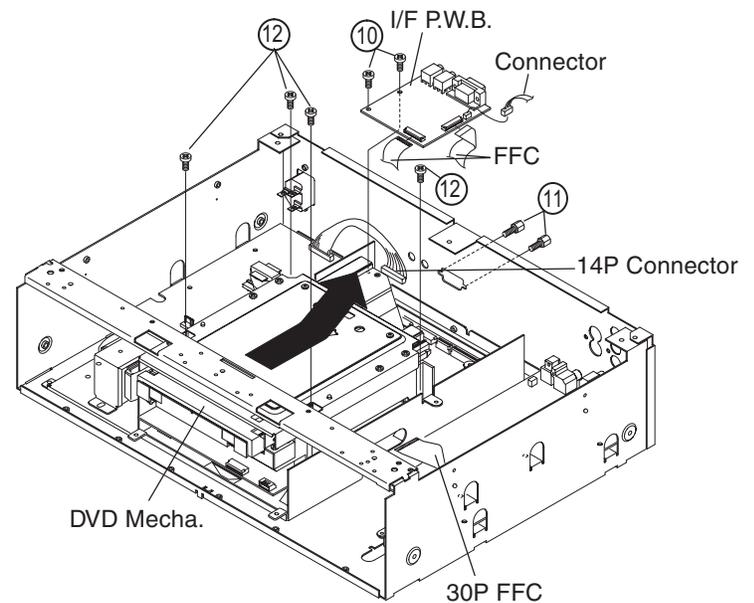
3. Video P.W.B.

- (1) Disconnect 2 connectors.
- (2) Disconnect 2 FFCs (CY272, CY131).
- (3) Remove 4 screws (8) on the Video P.W.B.
- (4) Remove 3 screws (9) from the rear.
- (5) Detach the Video P.W.B. to the arrow direction.



4. DVD Mecha.

- (1) Remove 2 screws (10) on the I/F P.W.B., 2 screws (11) from the rear, then disconnect 2 FFCs (CY211, CY212) and 1 connector (CY036) to detach the I/F P.W.B.
- (2) Disconnect each one of 30P FFC (CY301) and 14P connector (CX141) from the DVD Mecha.
- (3) Remove 4 screws (12) on the DVD Mecha., and take it off in the arrow direction.



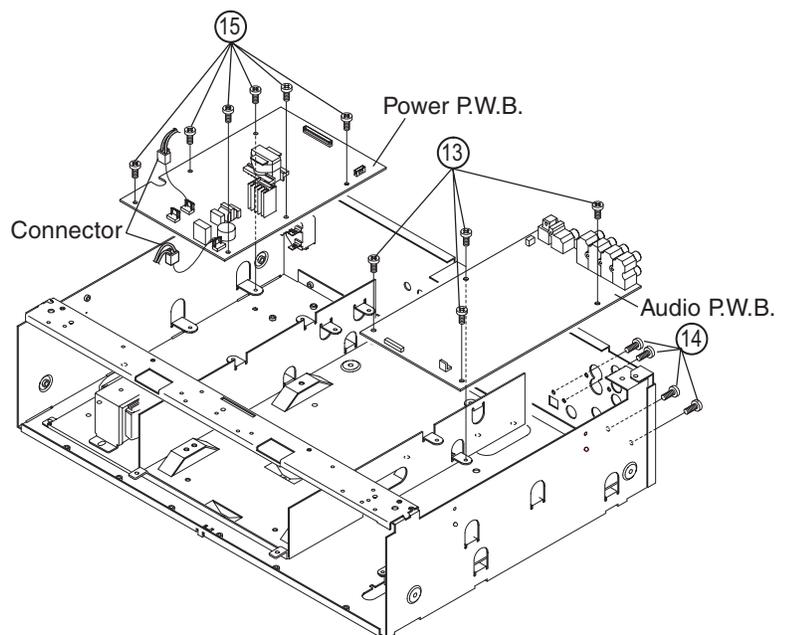
5. Audio P.W.B. / Power P.W.B.

5-1. Audio P.W.B.

Remove 4 screw (13) on the Audio P.W.B.,
4 screws (14) from the rear.

5-2. Power P.W.B.

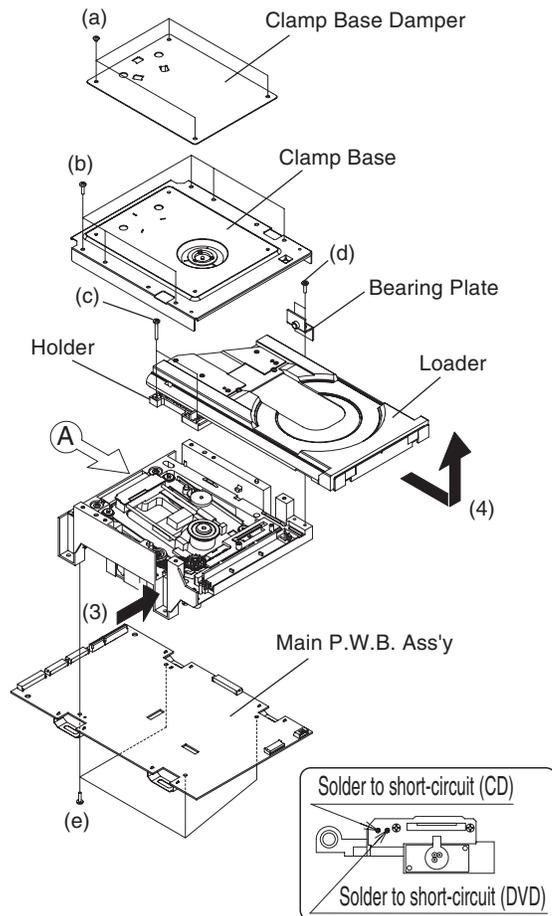
- (1) Remove 6 screws (15) on the Power P.W.B.
- (2) Disconnect 2 connectors (CX024, CX026).



How to Replace Traverse Unit

1. Preparing for Replacement

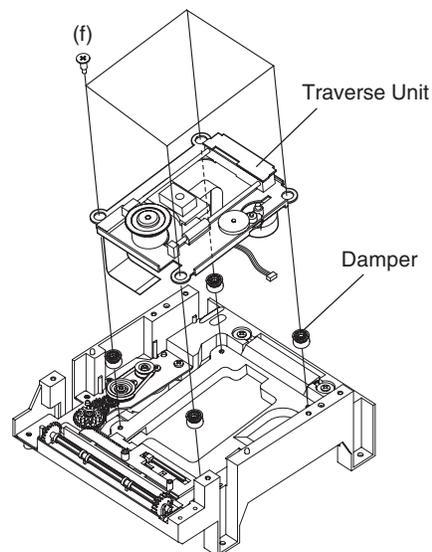
- (1) Removing Clamp Base Damper
 - Remove 4 pcs of 2.6mm machine screw (a), and detach the Clamp Base Damper upward.
- (2) Removing Clamp Base
 - Remove 6 pcs of 3mm P-tight screw (b), and detach the Clamp Base upward.
- (3) Ejecting Loader
 - Through the left rectangular hole of the Mechanism Unit, push the slider with a ruler or screwdriver until the Traverse portion lowers and the Loader comes out a little.
- (4) Removing Loader
 - Remove 2 pcs of 3mm P-tight screw (c) on the Loader Holder left.
 - Remove 2 pcs of 3mm P-tight screw (d) on the Loader Holder right, then pull up the Bearing Plate.
 - Fully pull out the Loader forward, and lift up to take it out.
- (5) Shorting Pickup
 - To protect the Pickup from static electricity, short-circuit 2 positions as shown in figure.
- (6) Removing Main P.W.B. Ass'y
 - Remove 4 pcs of 3mm P-tight screw (e), and detach the Main P.W.B. Ass'y downward.



Short-circuit with solder (enlarged fig. A)

2. Replacing Traverse Unit

- (1) Removing Wires
 - CX241: 24P-FFC for Pickup
 - CX151: 15P-FFC for Spindle
 - CX031: 3P-PH wire for PU Slide
- (2) Removing Traverse Unit
 - Remove 4 pcs of special screw (f) and dampers, then take out the Traverse Unit upward.
- (3) Mounting Traverse Unit
 - Mount the Traverse Unit following the reverse order.



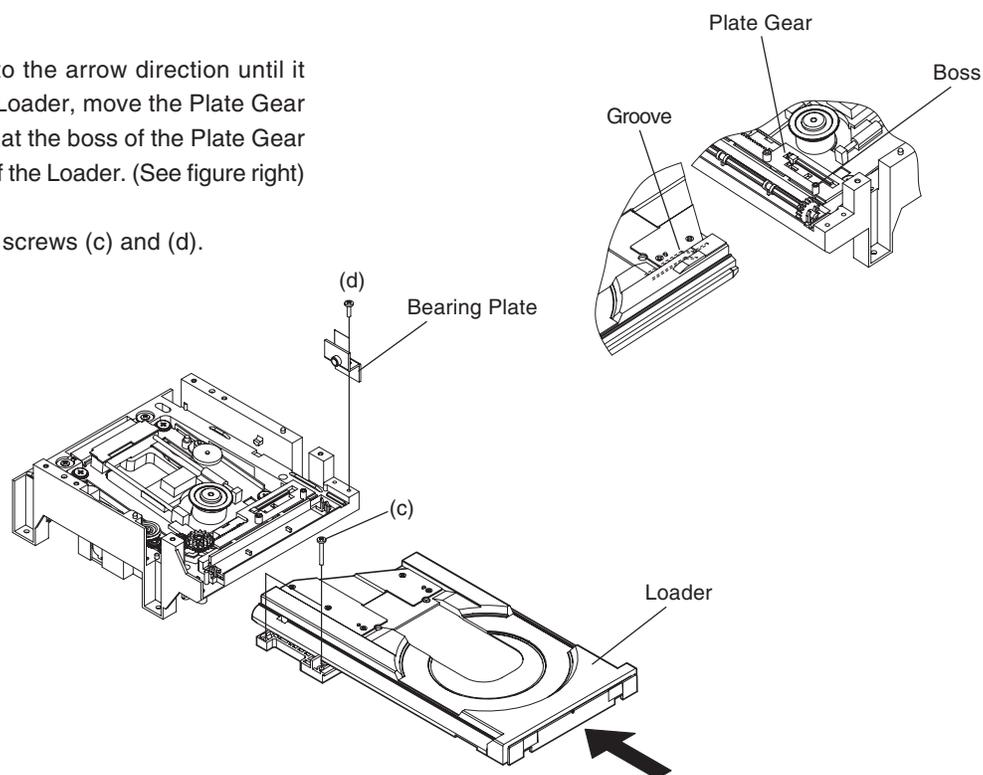
3. Installing Loader

(1) Inserting Loader

Set and push the Loader to the arrow direction until it stops. When installing the Loader, move the Plate Gear to right beforehand so as that the boss of the Plate Gear fits in the backside groove of the Loader. (See figure right)

(2) Fixing Loader

Fix the Loader with each 2 screws (c) and (d).



4. Assembly (1)

(1) Assembling Main P.W.B. Ass'y

Fix the Main P.W.B. Ass'y with 6 pcs of 3mm P-tight screw (e).

(2) Removing Pickup-short Solder

After connecting 24P-FFC of the Pickup with P.W.B., remove solder from 2 shorted positions.

(3) Temporary Positioning Clamp Base

To protect your eyes from laser light, put the Clamp Base temporarily. (At this moment, be sure to make chucking the Clamper and Turn-table securely.)

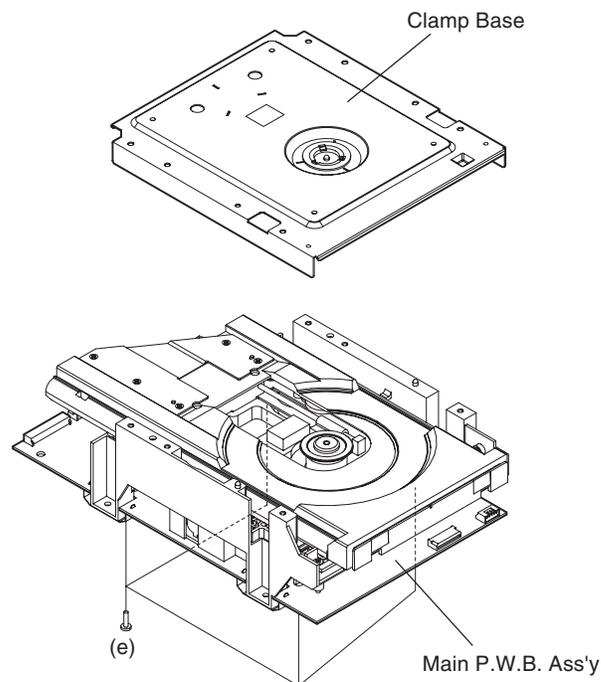
(4) Positioning up Traverse Unit

Connect the following wires of the Mechanism Unit, and operate it.

- CX141: 14P-PH wire for power
- CX131: 13P-FFC wire from Display P.W.B.

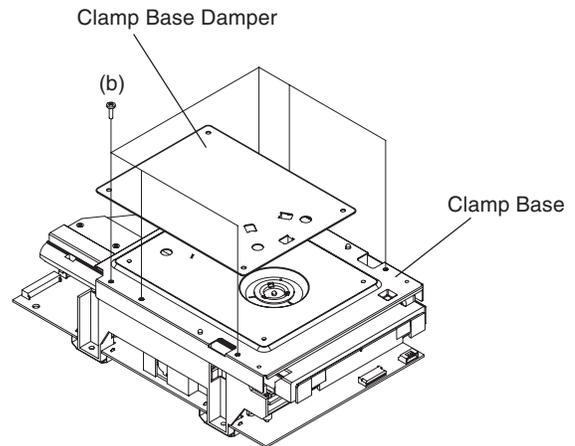
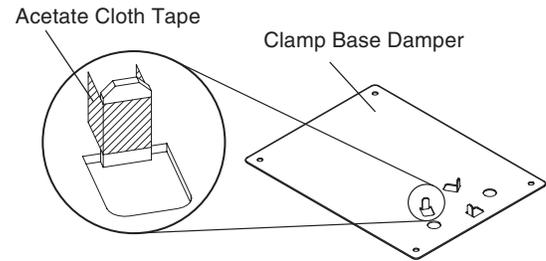
Turn on the power to the unit, and press "OPEN/CLOSE" button to close the Loader.

The Traverse Unit rises up. (display: 0h00m00s)



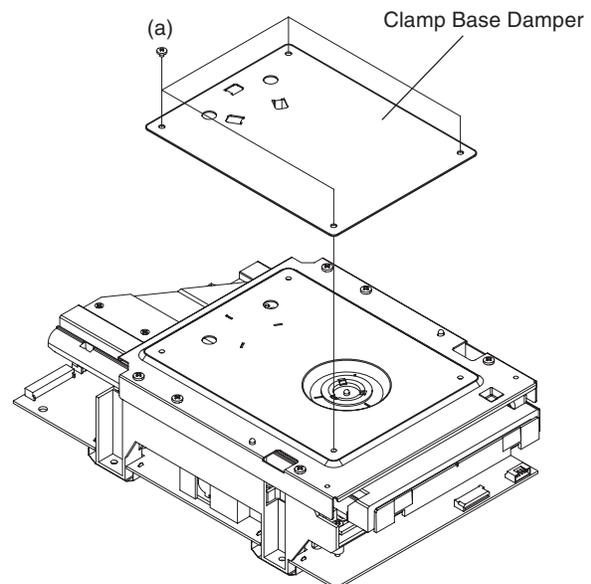
5. Assembly (2)

- (1) Attaching Tape to Clamp Base Damper
Attach acetate cloth tape to 3 projections of the Clamp Base Damper backside. (Be careful not to make it overlapped.)
- (2) Assembling Clamp Base
Set the Clamp Base Damper with positioning for clamper by 3 projections.
Fix the Clamp Base with 6 pcs of 3mm P-tight screw (b).



6. Assembly (3)

- (1) Detaching Tape from Clamp Base Damper
Detach acetate cloth tape from 3 projections of the Clamp Base Damper backside.
- (2) Assembling Clamp Base Damper
Set the Clamp Base Damper to the Clamp Base contrary to the direction set in step above.
Fix the Clamp Base Damper with 4 pcs of 3mm S-tight screw (a).



Service Mode

1. Aging Mode

(1) Preparation

- (a) Equipment used: Any one of DVD Karaoke Disc (containing more than 10 titles), CD/Video CD (Ver1.0: None playback control), or No-menu DVD. (Setting varies according to the disc used.)
- (b) Unit setting: No spec other than the following procedure (Aging mode)
At the tray open status, press the "POWER" button to turn on the power while pressing the "PLAY" and "OPEN/CLOSE" buttons for DVD operation simultaneously. ►|| mark on the FL lights, and the unit is set to the heat run mode.

(2) Procedure

- (a) According the above, set to the aging mode.
- (b) Set a DVD Karaoke disc to the tray and press the "PLAY" button once. ►|| mark on the FL blinks, and aging peration (after playback title-1 and title-10 of the disc, the tray open/close is made automatically, then playback the title-1 again) starts. This aging operation continues automatically until it is stopped or it stops caused by an error.
- (c) When using other than a DVD Karaoke disc, aging operation (after playback all titles of the disc, the tray open/close is made automatically, then playback all titles again) starts by pressing the "PLAY" button once, and ►|| mark on the FL lights. The aging operation continues automatically until it is stopped or it stops caused by an error. In case of some error in DVD, the tray opens and the following error messages are displayed on the FL.

No.	Error contents	Error code	FL display
1	During tray work, it doesn't end within the time specified.	045300	ERROR 01
2	No spindle work during playback.	040990	ERROR 02
3	Out of focus during playback, search, or pause.	031100	ERROR 04
4	No data read when spin up.	031100	ERROR 04
5	No data read when playback.	031100	ERROR 04
6	Cannot read TOC within the time specified.	025700	ERROR 05
7	No sub-code read	025700	ERROR 05
8	No response from DVD drive more than 10 sec.	0B4000	ERROR 06
9	Error not specified (other than above).	---	ERROR 07

2. Initial Setting Mode

(1) Preparation

- (a) Equipment used: None
- (b) Unit setting: No spec other than the following procedure

(2) Procedure

- (a) Initialize the DVD player when μ com, peripheral parts of μ com, or Main P.W.B. has been replaced in servicing.
- (b) Carry out the following to restore factory setting mode. At the player stop condition, press 3 buttons for DVD peration ("PLAY", "OPEN/CLOSE", and "►|| SKIP") until "INITIALIZE" appears and disappears in the FL. ("Initialized" appears and disappears on the TV screen.)
- (c) All user setting will be lost and its factory setting will be restored when this initialization is made. Be sure to memorize your setting for restoring again after the initialization.

3. P.W.B. Check Mode

(1) Preparation

- (a) Equipment used: None
- (b) Unit setting: No spec other than the following procedure

(2) Procedure

- (a) Press the "POWER" button to turn on the power while pressing the "PLAY" and "OPEN/CLOSE" buttons for DVD operation simultaneously.

- (b) FL all light/extinguish mode.

This mode is for detecting FL defects. Press "STILL/PAUSE(II)" on the remote control unit once to light all FL segments, and press it once again to extinguish them.

- (c) DVD μ com and main unit μ com firm check mode.

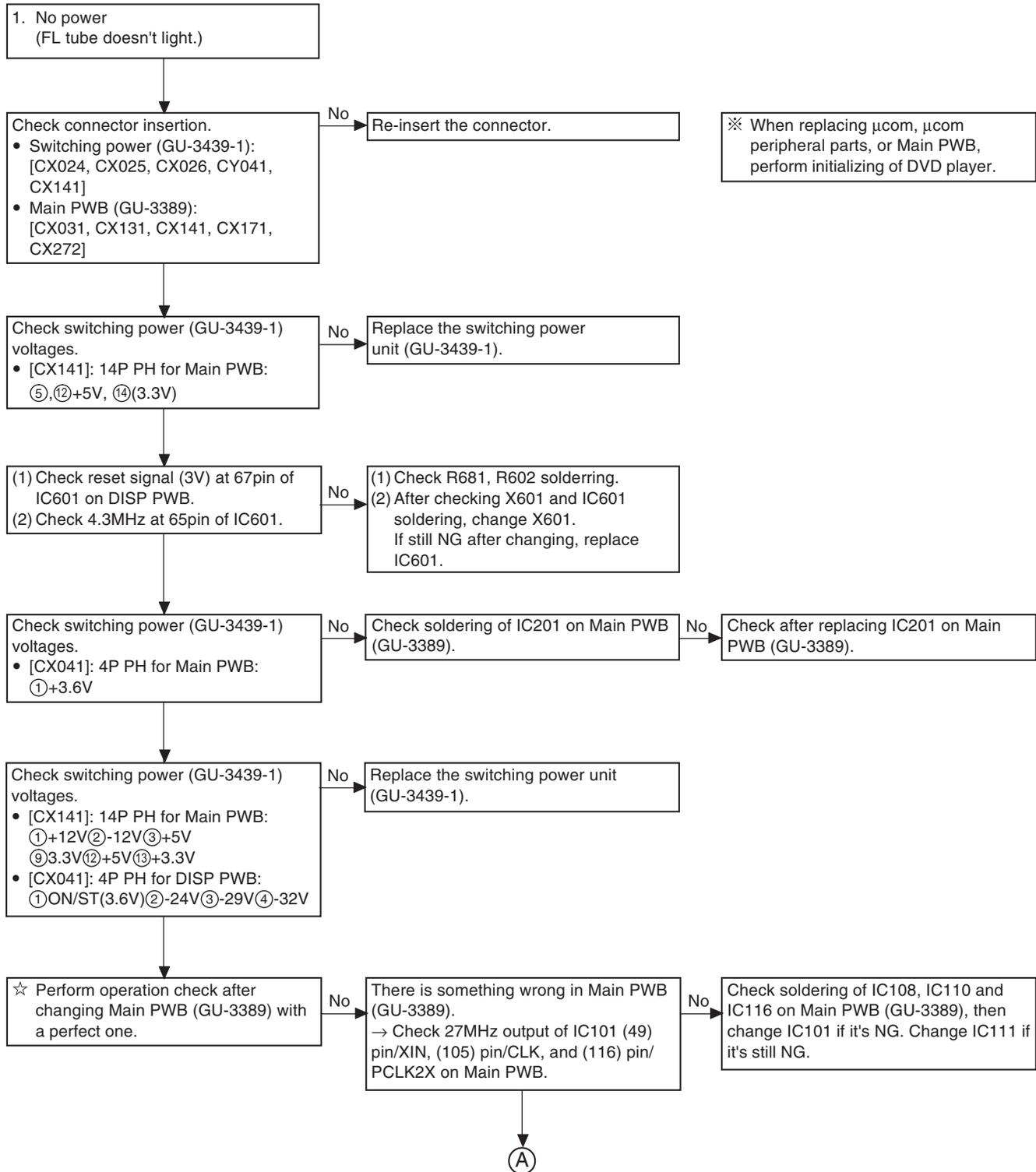
This mode is for displaying the status of each μ com employed.

- DVD μ com firm: Press the "MENU" button. Each time the "MENU" button is pressed, μ com firm is displayed one after another.

Ex.: [DRV_6067, ESS_6094, PANEL 6093]

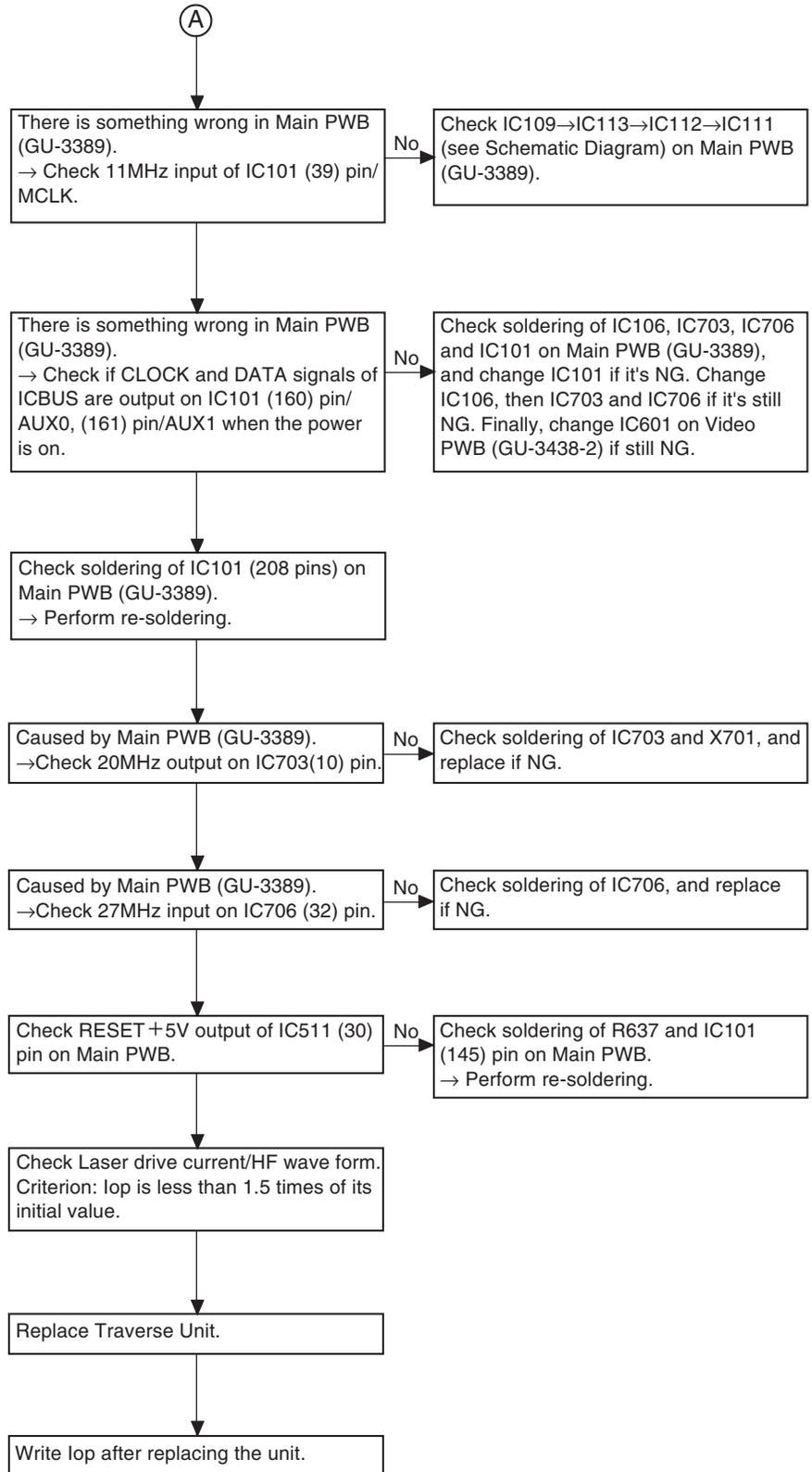
	Set Serial No. (lower 5 digits)	Bus Manager	Drive μ com	ESS μ com	Panel μ com
1	00001~	V.52	Ver. 6067 (Display) 6067	Ver. 6094 (Display) 6094	Ver. 6093 (Display) 6093
2					
3					
4					

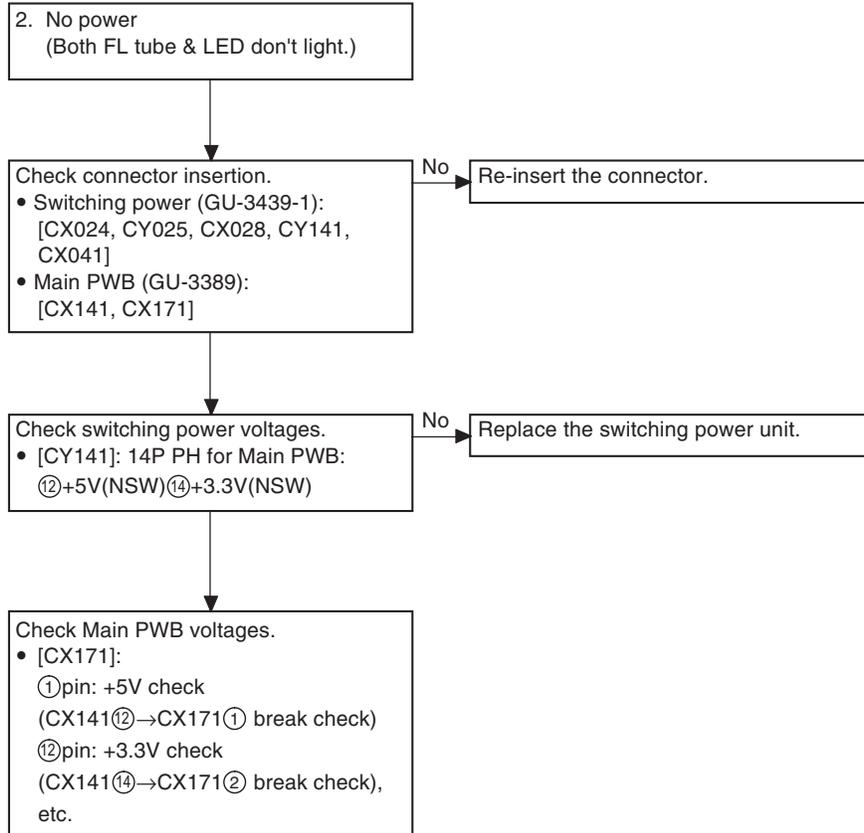
TROUBLESHOOTING



※ When replacing μ com, μ com peripheral parts, or Main PWB, perform initializing of DVD player.

Note: When switching power unit is repairable, refer to the waveforms and voltages shown in Schematic Diagram.





Electrical Adjustment for Video

SETTING

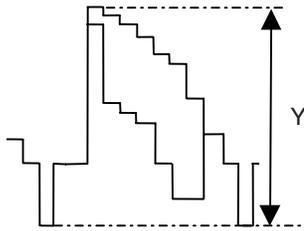
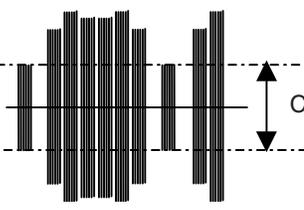
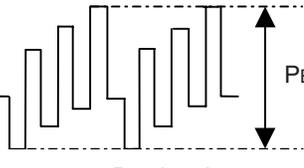
1. Connect the monitor TV to the video output 1 terminal.
2. Connect the Oscilloscope to the Y-signal and C-signal of S2 video output terminal and each terminate at 75 Ohms.
3. Connect the Oscilloscope to the Pb-signal , Cb-signal and Y-signal of Component video output terminal and each terminate at 75 Ohms.

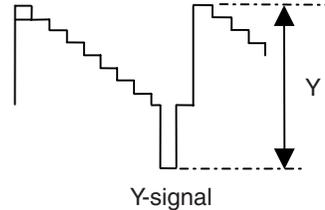
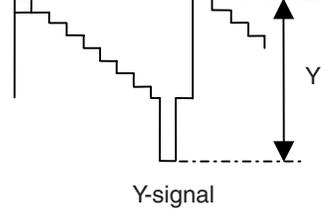
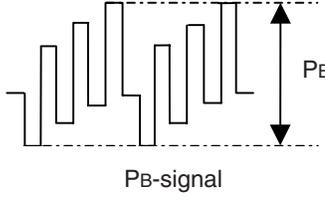
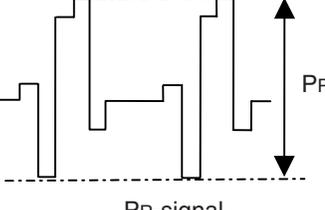
Use the 75 Ohms resistance must be 1%

4. DVD test disc : DVDT-S01

ADJUSTMENT

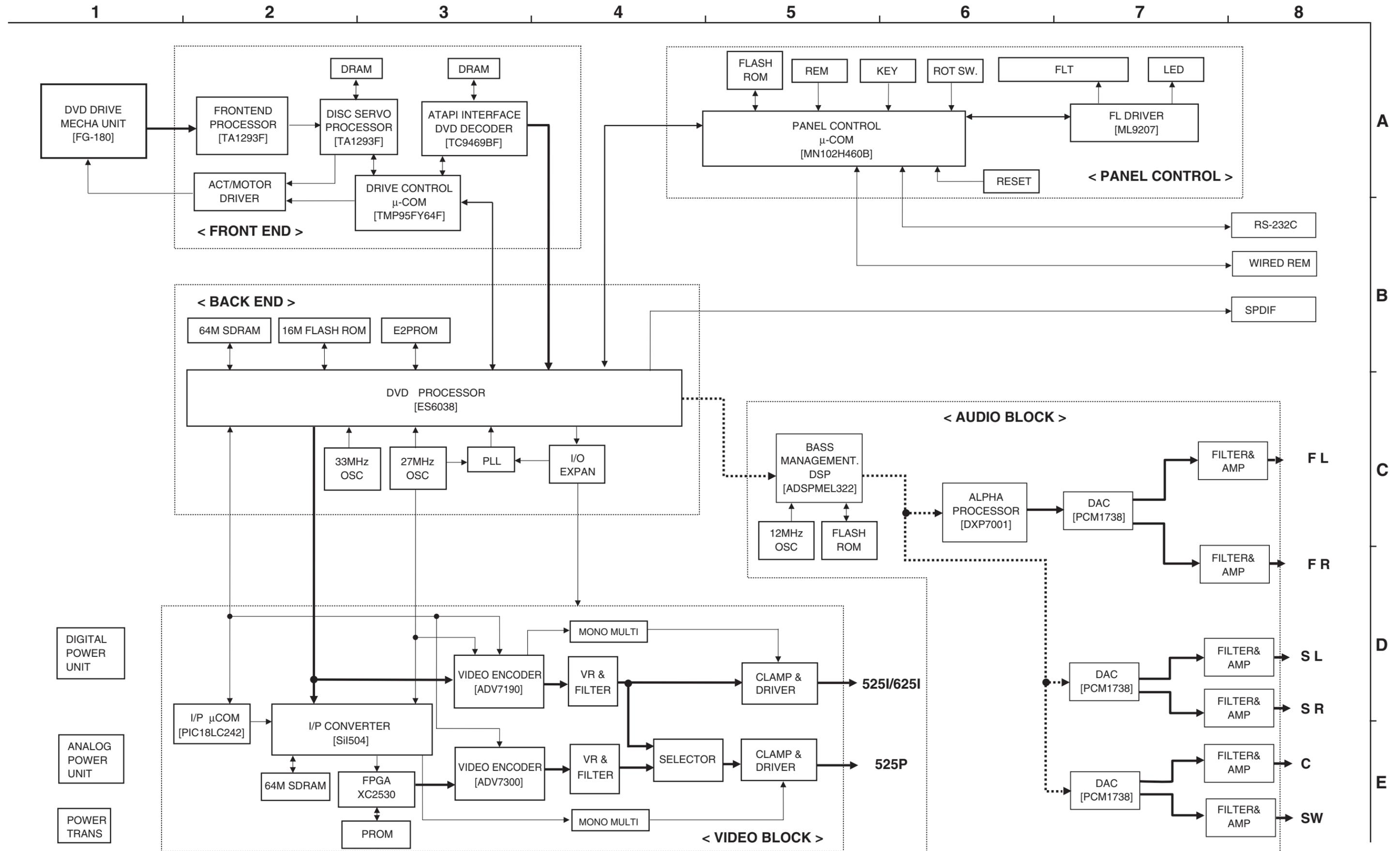
<p>Setting the Oscilloscope as bellow.</p> <p>① PB / CB / PR / CR</p> <p>(a) TIME / DIV : 2 μS</p> <p>(b) VOLT / DIV : 100 mV (use the probe : $\times 10$)</p> <p>② Y / C</p> <p>(a) TIME / DIV : 2 μS</p> <p>(b) VOLT / DIV : 50 mV (use the probe : $\times 10$)</p> <p>Power on. Power Supply</p> <p>U.S.A. & Canada : 120 V</p> <p>Asia : 230 V</p> <p>China : 220 V</p> <p>Europe : 230 V</p>	<ol style="list-style-type: none"> 1. Power on. 2. Set the [SOURCE] selector knob : DVD. 3. Push [OPEN/CLOSE] button, then open the Disc Tray. 4. Set DVD test disc (DVDT-S01) on the Disc Tray, and then push [CLOSE] button. 5. FL display appear "STOP", push [PLAY] button to playback DVD. 6. Set the Video output to INTERLACED by remote control unit. (Push the [SETUP] button, set to the mode of VIDEO SETUP.) 7. Push the [DISPLAY] button of remote control unit and then appear the ON-Screen Display (GUI) on the monitor TV. 8. Push the [12] button, select title 12 of DVD. 9. Push the [SELECT] button, playback title 12. (color bar 75%)
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Adjustment	Point & Adjustment Value	Wave
<p>Adjust the signal of S2 video out by the wave of Oscilloscope.</p> <p>① Y-signal</p>	<p>Point : VR602</p> <p>Adjustment Value : 1000 \pm20 mV</p>	 <p>Y-signal of S2 video out</p>
<p>Adjust the signal of S2 video out by the wave of Oscilloscope.</p> <p>② C-signal</p>	<p>Point : VR603</p> <p>Adjustment Value : 286 \pm5 mV</p>	 <p>C-signal of S2 video out</p>
<p>Adjust the signal of Component video out.</p> <p>① CB-signal</p>	<p>Point : VR601</p> <p>Adjustment Value : *525 \pm10 mV</p>	 <p>PB-signal</p>

Adjustment	Point & Adjustment Value	Wave
Adjust the signal of Component video out ② Y-signal	Point: VR604 Adjustment Value: $1000 \pm 20\text{mV}$	 <p>Y-signal</p>
Set the Video output to PROGRESSIVE by remote control unit. (Push the [SETUP] button, set to the mode of VIDEO SETUP.) ① Y-signal	Point: VR710 Adjustment Value: $1000 \pm 20\text{mV}$	 <p>Y-signal</p>
Set the Video output to PROGRESSIVE by remote control unit. (Push the [SETUP] button, set to the mode of VIDEO SETUP.) ② PB-signal	Point: VR709 Adjustment Value: $*525 \pm 10\text{mV}$	 <p>PB-signal</p>
Set the Video output to PROGRESSIVE by remote control unit. (Push the [SETUP] button, set to the mode of VIDEO SETUP.) ③ PR-signal	Point: VR708 Adjustment Value: $*525 \pm 10\text{mV}$	 <p>PR-signal</p>

*: $486 \pm 10\text{mV}$ for U.S.A. & Canada model

BLOCK DIAGRAM



SEMICONDUCTORS

● IC's

Note: Indications before IC numbers denote P.W.B. name.

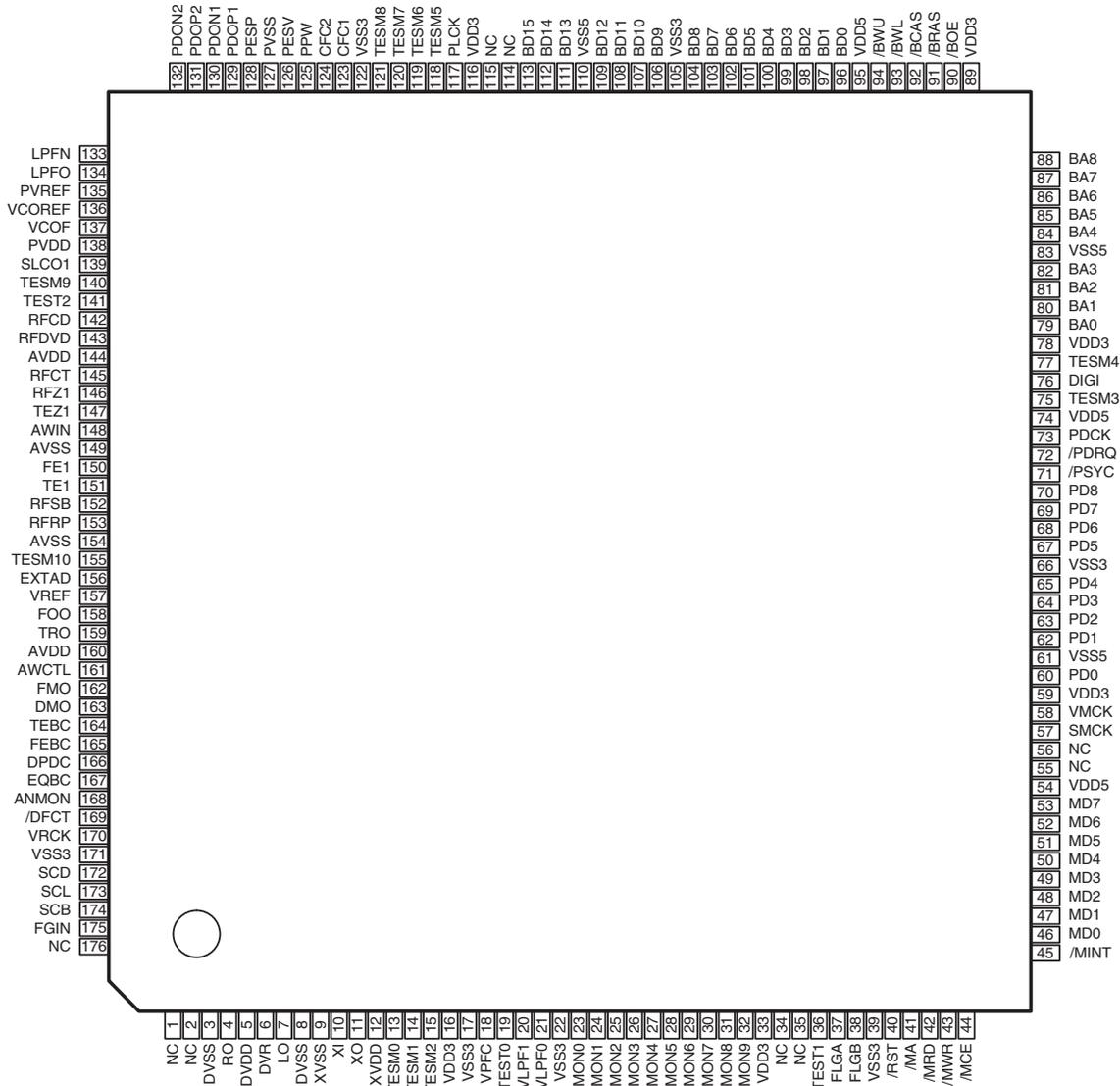
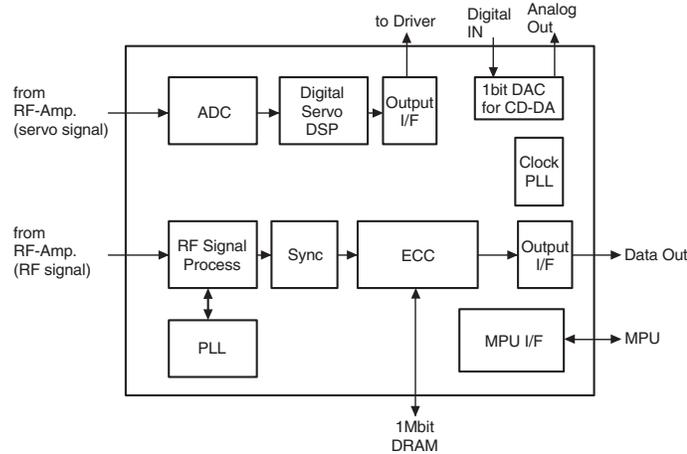
AV: AUDIO/VIDEO P.W.B.

MA: MAIN P.W.B.

PD: POWER/DISPLAY P.W.B.

SC: SCART P.W.B.

TC9453F (MA: IC505)



TC9453F Terminal Function

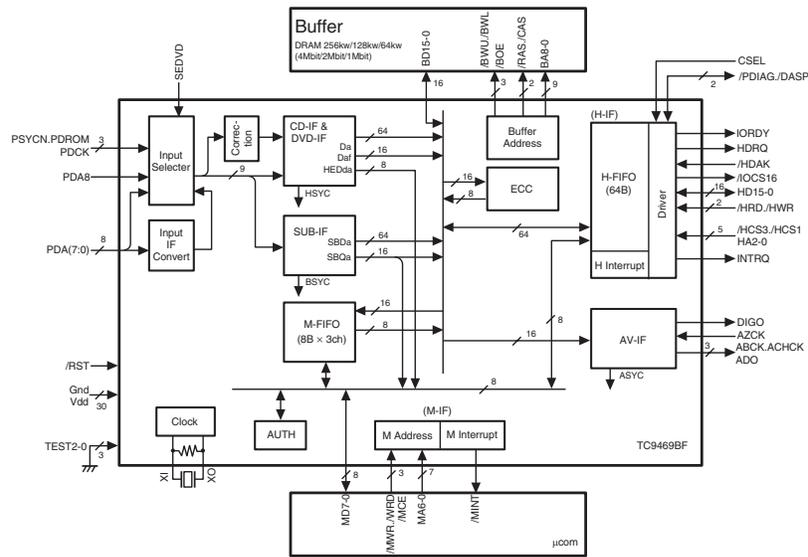
Pin No.	Pin Name	I/O	Function
1	NC		—
2	NC		—
3	DVss		GND for DAC
4	RO	O	R-ch output signal, Analog output pin
5	DVDD		Power for DAC
6	DVR	O	Amp ref. signal output, Analog input pin
7	LO	O	L-ch output signal, Analog output pin
8	DVss		GND for DAC
9	XVss		GND for oscillator
10	XI	I	X'tal osc. input, Analog 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 resistor built-in
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

Pin No.	Pin Name	I/O	Function
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
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

Pin No.	Pin Name	I/O	Function
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	CFC1	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	AVDD		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 “I” are active “L” terminals.

TC9469BF (MA: IC508)



108	(NC)	72	(NC)
107	V _{ss}	71	(NC)
106	V _{ss}	70	V _{ss}
105	V _{DD}	69	(LRCK)PDA0
104	/RST	68	(BCK)PDA1
103	ESTOUT	67	(DA1)PDA2
102	/MINT	66	(C2P1)PDA3
101	/MMWR	65	(CLCK)PDA4
100	V _{ss}	64	V _{ss}
99	/WRD	63	(SB01)PDA5
98	/WCE	62	(SFSY)PDA6
97	MA6	61	(SBSY)PDA7
96	MA5	60	PDA8
95	MA4	59	PSYCN
94	MA3	58	PDRQN
93	MA2	57	PDCK
92	MA1	56	(NC)
91	MA0	55	DIGO
90	V _{DD}	54	VDDck
89	V _{ss}	53	X0
88	MD7	52	X1
87	MD6	51	VSSck
86	MD5	50	TEST2
85	MD4	49	TEST1
84	MD3	48	TEST0
83	MD2	47	BA3
82	MD1	46	BA1
81	MD0	45	BA2
80	V _{ss}	44	V _{ss}
79	SEDVD	43	BA0
78	V _{DD}	42	BA4
77	ACHCK	41	BA5
76	AD0	40	BA6
75	ABCK	39	BA7
74	AZCK	38	V _{ss}
73	(NC)	37	(NC)

1	(NC)	30	/CAS(CASU)
2	V _{ss}	31	/RAS
3	A2	32	/BOE
4	/HCS1	33	BA8
5	/HCS3	34	V _{DD}
6	/DASP	35	(NC)
7	CSEL	36	(NC)
8	V _{ss}		
9	V _{DD}		
10	BD15		
11	BD14		
12	BD13		
13	BD12		
14	BD11		
15	BD10		
16	BD9		
17	BD8		
18	V _{DD}		
19	V _{ss}		
20	BD4		
21	BD5		
22	BD7		
23	BD6		
24	BD3		
25	BD2		
26	BD1		
27	BD0		
28	V _{ss}		
29	/BWU(BWE)		
30	/BWL(CASL)		
31	/CAS(CASU)		
32	/RAS		
33	/BOE		
34	BA8		
35	V _{DD}		
36	(NC)		

TC9469BF Terminal Function

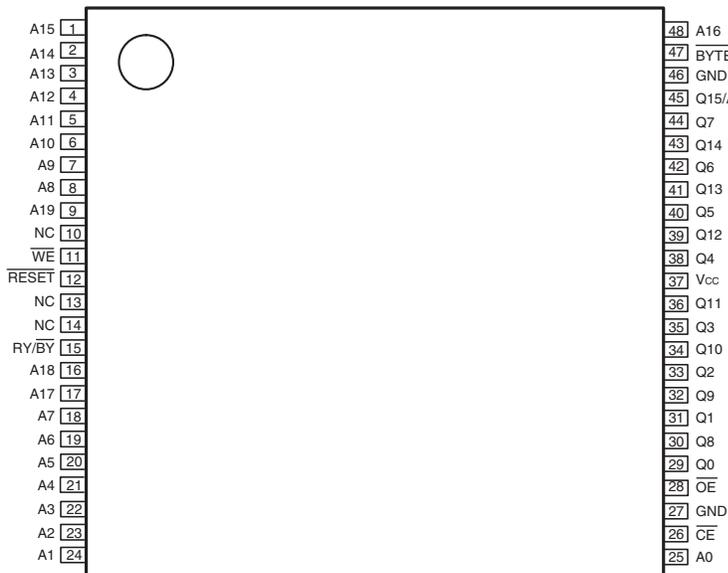
Pin No.	Pin Name	I/O	Function
1	NC	—	—
2	Vss	—	GND pin
3	HA2	I	Host address 2 input: IDE sig. DA2, TTL level input, pull-up R built-in
4	/HCS1	I	Chip select 1 input: IDE sig. /CS1FX, TTL level input, pull-up R built-in
5	HCS3	I	Chip select 3 input: IDE sig. /CS3FX, TTL level input, pull-up R built-in
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
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

Pin No.	Pin Name	I/O	Function
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
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-state 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	Host data in/output (HD[0:15]:IDE sig. DD[0:15]), TTL level, tri-state out, pull-up R built-in
116	Vss	—	GND pin

Pin No.	Pin Name	I/O	Function
117	HD4	I/O	Host data in/output (HD[0:15]:IDE sig. DD[0:15]), TTL level, tri-state 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	—	—

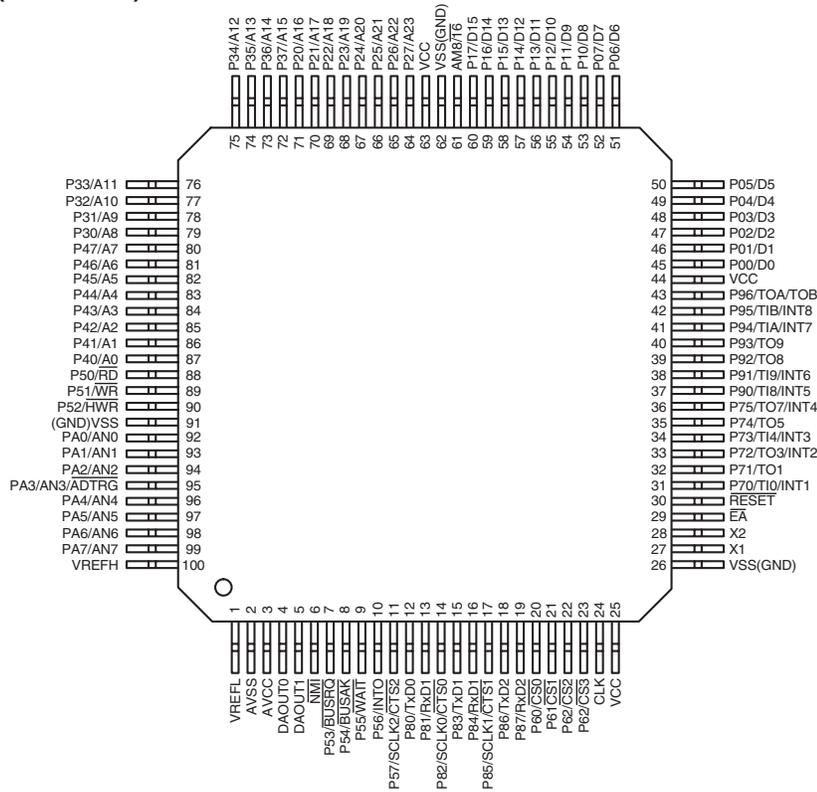
* Pin names begin with “/” PSYNCN, and PDRQN are active “L” terminals.

MX29LV160BTC-90 (MA: IC102)



SYMBOL	PIN NAME
A0~A19	Address Input
Q0~Q14	Data Input/Output
Q15/A-1	Q15 (Word mode)/LSB addr (Byte mode)
CE	Chip Enable Input
WE	Write Enable Input
BYTE	Word/Byte Selection input
RESET	Hardware Reset Pin/Sector Protect Unlock
OE	Output Enable Input
RY/BY	Ready/Busy Output
Vcc	Power Supply Pin (2.7V~3.6V)
GND	Ground Pin

TMP95FY64F (MA: IC511)

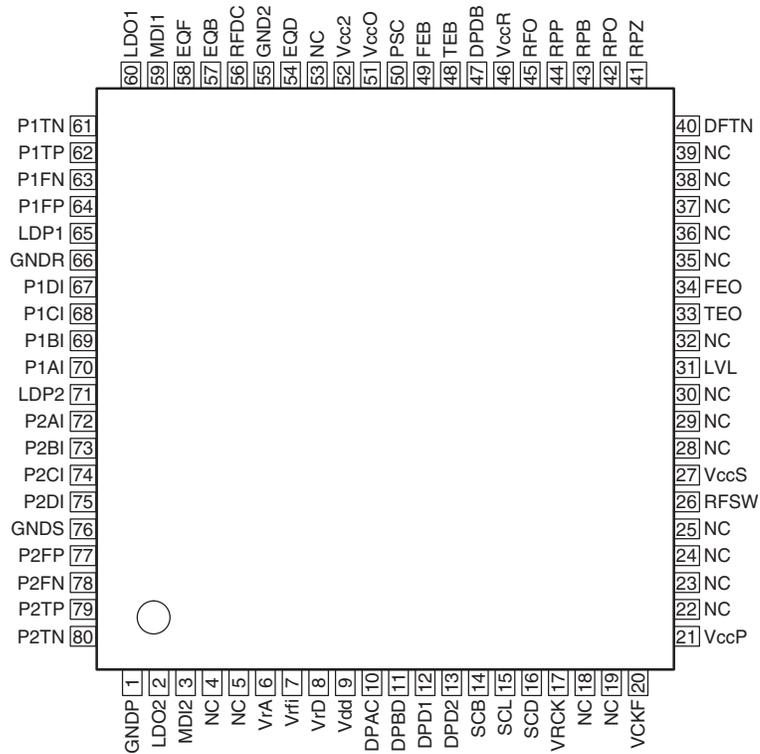


TMP95FY64F Terminal Function

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	P86	—	O	Not used
19	P87	—	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	—	INT7		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	—	O	Not used
66	P25	—	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	\overline{RD}	RDN	O	Strobe signal output for read
89	\overline{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 (MA: IC501)

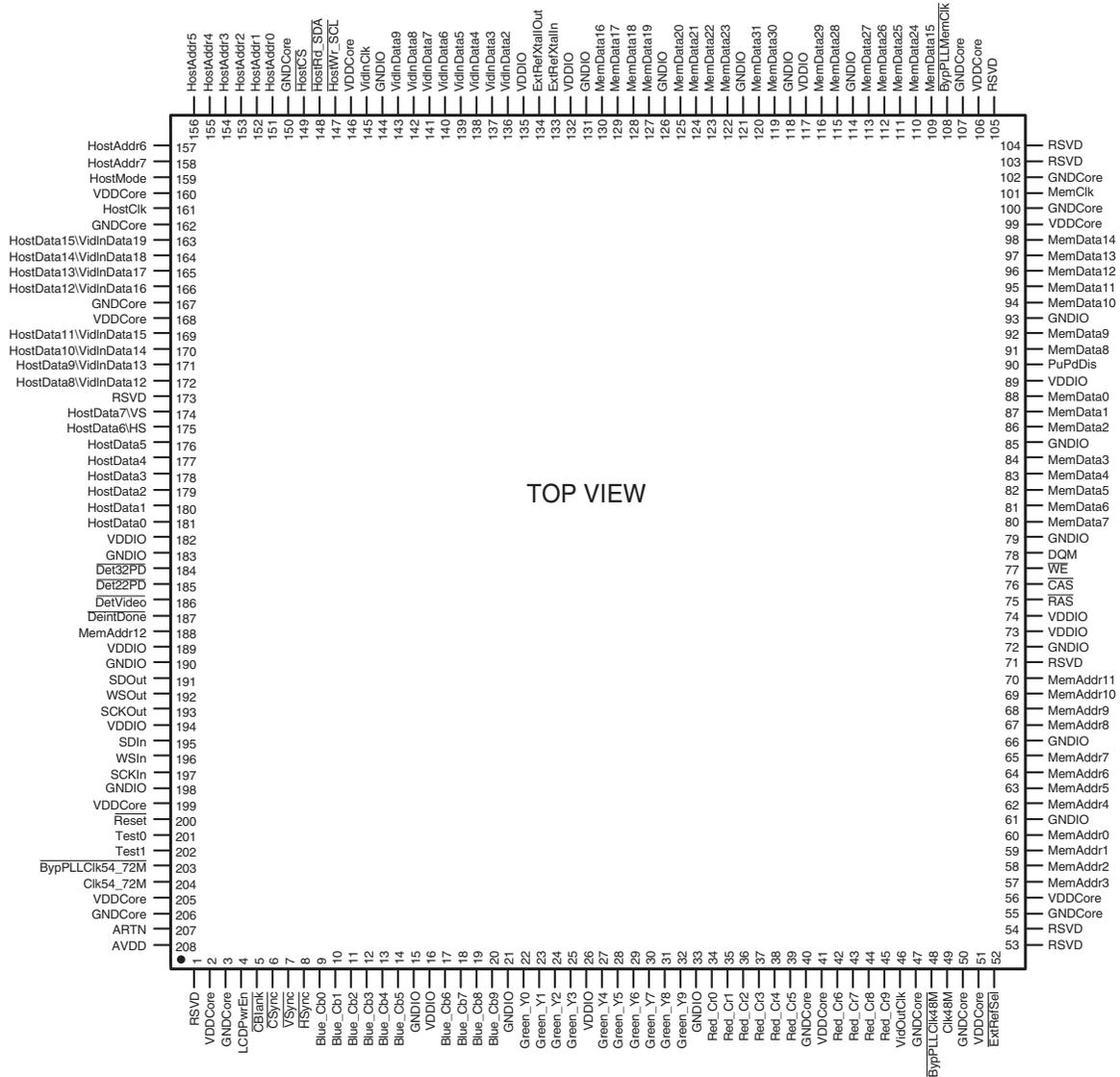


TA1293F Terminal Function

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

Pin No.	Pin Name	I/O	Function
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
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)

Sil504CM208 (MA: IC701)

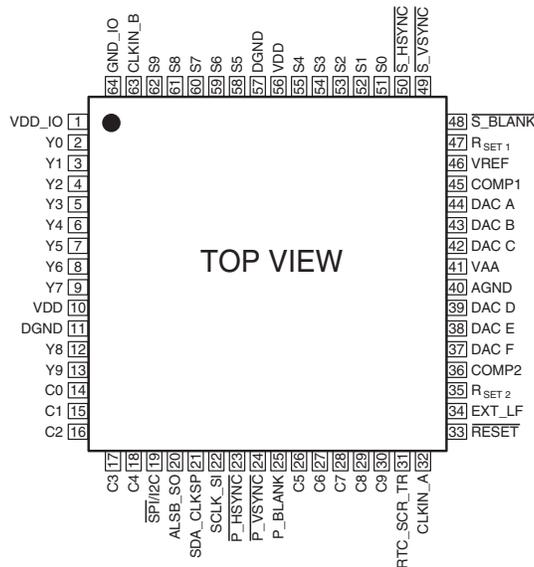


Sil504CM208 Terminal Function

Pin No.	Pin Name	I/O	Function
2, 41, 51, 56, 99, 106, 146, 160, 168, 199, 205	VDDCore	Pwr	1.8V Core Power.
3, 40, 47, 50, 55, 100, 102, 107, 150, 162, 167, 206	GNDCore	Pwr	Digital Ground for Core Power.
4	LCDPwrEn	Out	LCD Power Enable
5	CBBlank	Out	Composite Blank
6	CSync	Out	Composite Sync
7	VSync	Out	Vertical Sync
8	HSync	Out	Horizontal Sync
9~14, 17~20	Blue_Cb[9:0]	Out	Blue Data (RGB output mode); Cb Data (YCrCb output mode)
15, 21, 33, 61, 66, 72, 79, 85, 93, 114, 118, 121, 126, 131, 144, 183, 190, 198	GNDIO	Pwr	Digital Ground for I/O Power.

Pin No.	Pin Name	I/O	Function
16, 26, 73, 74, 89, 117, 132, 135, 182, 189, 194	VDDIO	Pwr	3.3V I/O Power.
22~25, 27~32	Green_Y[9:0]	Out	Green Data (RGB output mode); Y Data (YCrCb output mode)
34~39, 42~45	Red_Cr[9:0]	Out	Red Data (RGB output mode); Cr Data (YCrCb output mode)
46	VidOutClk	Out	Video Output Clock, 36, 27 or 24 MHz
48	BypPLLCIk48M	In	Bypass PLL for Clk48M.
49	Clk48M	InOut	48 MHz Clock.
52	ExtRefSel	In	External APLL Reference Select.
57~60, 62~65, 67~70, 188	MemAddr[12:0]	InOut	SDRAM Address when an output. Configuration at reset when an input.
75	RAS	Out	SDRAM Row Address Strobe.
76	CAS	Out	SDRAM Column Address Strobe.
77	WE	Out	SDRAM Write Enable.
78	DQM	Out	SDRAM Data Mask.
80~84, 86~88, 91, 92, 94~98, 109, 110~113, 115, 116, 119, 120, 122~125, 127~130	MemData[31:0]	InOut	SDRAM Data.
90	PuPdDis	In	Internal pullup and pulldown disable test function.
101	MemClk	InOut	SDRAM Clock.
108	BypPLLMemClk	In	Bypass PLL for MemClk.
133	ExtRefXtalIn	In	External APLL Reference Crystal/oscillator Input.
134	ExtRefXtalOut	Out	External APLL Reference Crystal Output.
136~143	VidInData[9:2]	In	Multiplexed Video Input Data; Y Video Input Data.
145	VidInClk	In	Video Input Clock, 27.0 MHz
147	HostWr_SCL	In	186-Compatible Write when HostMode=0. Serial Clock when HostMode=1.
148	HostRd_SDA	InOut	186-Compatible Read when HostMode=0. Serial Data when HostMode=1.
149	HostCS	In	186-Compatible Chip Select when HostMode=0. When HostMode=1, must be tied to VDD or pulled up to VDD.
151~158	HostAddr[7:0]	In	186-Compatible Address when HostMode=0. No connect when HostMode=1.
159	HostMode	In	Serial Host Interface when HostMode=1. 186-compatible host interface when HostMode=0.
161	HostClk	InOut	186-Compatible Clock when HostMode=0. No connect when HostMode=1.
163~166, 169~172	HostData[15:8] (VidInData[19:2])	InOut	186-Compatible Data when HostMode=0. Chroma video input data when HostMode=1.
174	HostData[7](VS)	InOut	186-Compatible Data when HostMode=0. Vertical sync input when HostMode=1.
175	HostData[6](HS)	InOut	186-Compatible Data when HostMode=0. Horizontal sync input when HostMode=1.
176~181	HostData[5:0]	InOut	186-Compatible Data when HostMode=0. No connect when HostMode=1.
184	Det32PD	Out	3:2 Pulldown Sequence Detected.
185	Det22PD	Out	2:2 Pulldown Sequence Detected.
186	DetVideo	Out	Interlaced Video Sequence Detected.
187	DeintDone	Out	Deinterlace processing complete for current field period.
191	SDOut	Out	Serial Digital Audio Output Data.
192	WSOut	Out	Serial Digital Audio Output Word Select.
193	SCKOut	Out	Serial Digital Audio Output Clock.
195	SDIn	In	Serial Digital Audio Input Data.
196	WSIn	In	Serial Digital Audio Input Word Select.
197	SCKIn	In	Serial Digital Audio Input Clock.
200	Reset	In	Hardware Reset.
201, 202	Test[1:0]	In	Production hardware test support.
203	BypPLLCIk54_72M	In	Bypass PLL for Clk54_72M.
204	Clk54_72M	InOut	54 or 72 MHz Clock.
207	ARTN	Pwr	Analog Return for PLLs.
208	AVDD	Pwr	1.8V Analog Power for PLL.

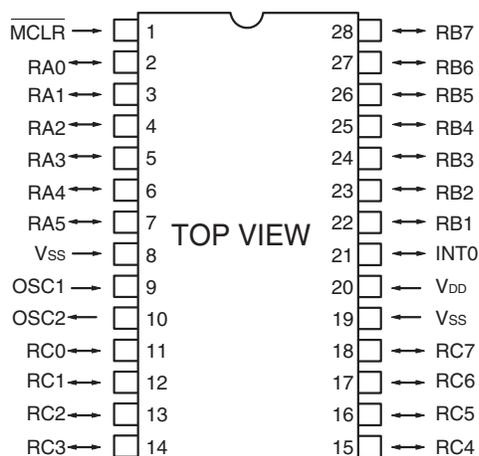
ADV7300 (MA: IC706)



ADV7300 Terminal Function

Pin No.	Pin Name	I/O	Function
1	VDD_IO	P	Digital power supply.
2~9, 12, 13	Y9-0	I	10-Bit Progressive scan/ HDTV input port for Y data.
10, 56	VDD	P	Digital power supply.
11, 57	DGND	G	Digital Ground
14~18, 26~30	C9-0	I	10-Bit Progressive scan/ HDTV input port for CrCb color data in 4:2:2 input mode.
19	SPI/I2C	I	When this input pin is brought low, the ADV7300 interfaces over the SPI port and uses this input as part of the 4 wire SPI interface. When this input pin is tied high [VDD_IO], the ADV7300 interfaces over the I2C port.
20	ALSB_SO	I/O	Multifunctional pin.
21	SDA_CLKSP	I/O	Multifunctional pin.
22	SCLK_SI	I	Multifunctional input.
23	P_HSYNC	I	Video Horizontal Sync Control Signal for HD sync in simultaneous SD/HD mode and HD only mode.
24	P_VSYNC	I	Video Vertical Sync Control Signal for HD sync in simultaneous SD/HD mode and HD only mode.
25	P_BLANK	I	Video Blanking Control Signal for HD sync in simultaneous SD/HD mode and HD only mode.
31	RTC_SCR_TR	I	Multifunctional input.
32	CLKIN_A	I	Pixel Clock Input for HD only or SD only modes.
33	RESET	I	This input resets the on-chip timing generator and sets the ADV7300 into Default Register setting. Reset is an active low signal.
34	EXT_LF	I	External Loop filter for the internal PLL.
35, 47	RSET1,2	I	A1520 Ohms resistor must be connected from this pin to AGND and is used to control the amplitudes of the DAC outputs.
36,45	COMP	O	Compensation Pin for DACs.
37	DAC F	O	In SD only mode: Chroma/RED/V analog output. In HD only mode and simultaneous HD/SD: Pb/ BLUE (HD) analog output.
38	DAC E	O	In SD only mode: Luma/BLUE/U analog output. In HD only mode and simultaneous HD/SD: Pr/ RED (HD) analog output.
39	DAC D	O	In SD only mode: CVBS/GREEN/Y analog output. In HD only mode and simultaneous HD/SD: Y/ GREEN (HD) analog output.
40	AGND	G	Analog Ground
41	VAA	P	Analog power supply.
42	DAC C	O	Chroma/ RED/ V SD analog output.
43	DAC B	O	Luma/ BLUE/ U SD analog output.
44	DAC A	O	CVBS/ GREEN/ Y SD analog output.
46	VREF	I/O	Optional External Voltage Reference Input for DACs or Voltage Reference Output (1.235V).
48	S_BLANK	I/O	Video Blanking Control Signal for SD.
49	S_VSYNC	I/O	Video Vertical Sync Control Signal for SD.
50	S_HSYNC	I/O	Video Horizontal Control Signal for SD.
51~55, 58~62	S9-S0	I	10-Bit Standard Definition input port. Or Progressive Scan/ HDTV input port for Cr [Red/V] color data in 4:4:4 input mode.
63	CLKIN_B	I	Pixel Clock Input.
64	GND_IO	G	Digital Ground

PIC18LC242-I/SO (MA: IC703)

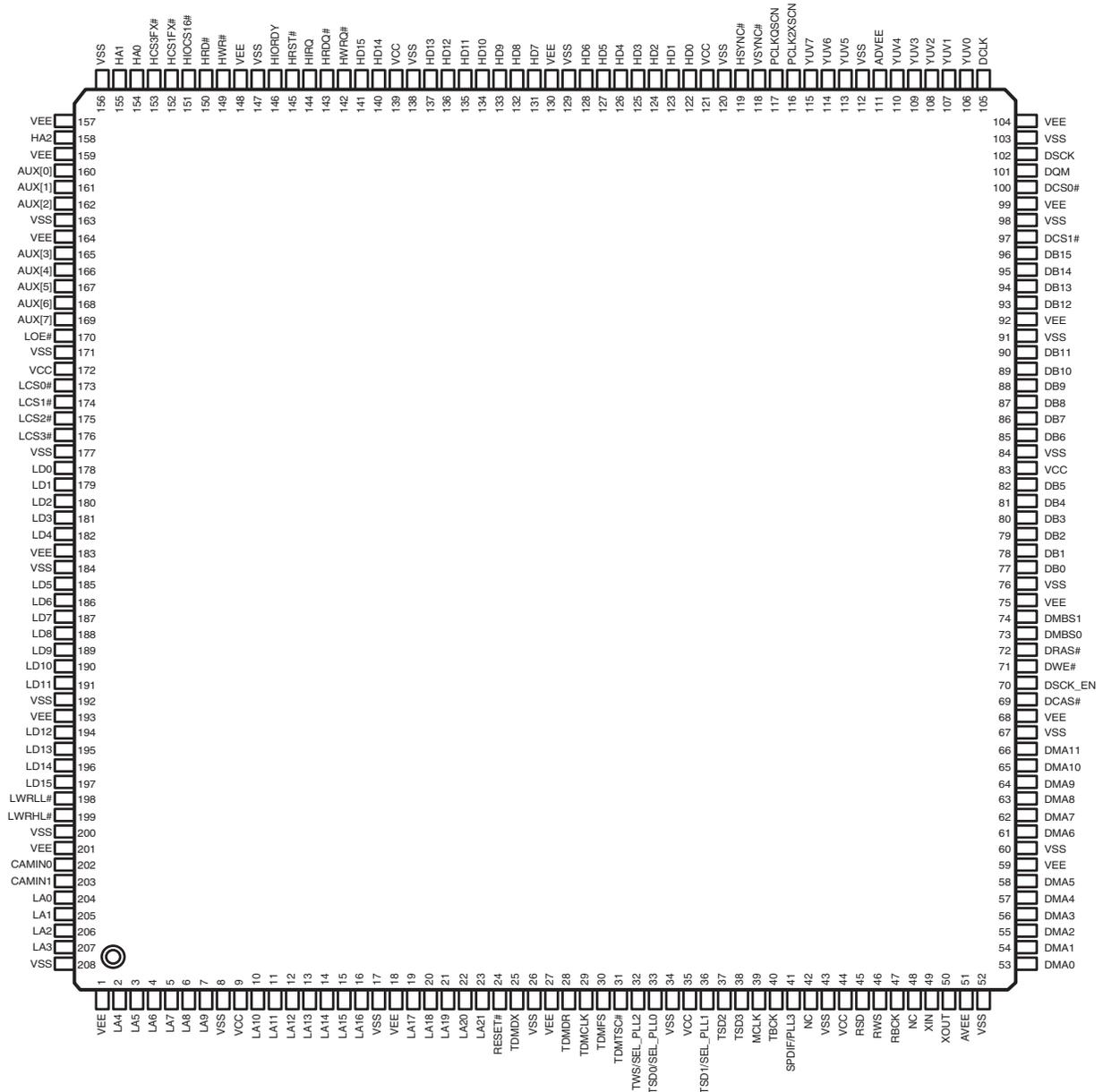


PIC18LC242-I/SO Terminal Function

Pin No.	Pin Name	I/O	Description
1	$\overline{\text{MCLR}}$	I	Master Clear (Reset) input. This pin is an active low RESET to the device.
2	RA0	I/O	Digital I/O.
3	RA1	I/O	Digital I/O.
4	RA2	I/O	Digital I/O.
5	RA3	I/O	Digital I/O.
6	RA4	I/O	Digital I/O. Open drain when configured as output.
7	RA5	I/O	Digital I/O.
8	V _{ss}	P	Ground reference for logic and I/O pins.
9	OSC1	I	Oscillator crystal input or external clock source input. ST buffer when configured in RC mode. CMOS otherwise.
10	OSC2	O	Oscillator crystal output. Connects to crystal or resonator in Crystal Oscillator mode.
11	RC0	I/O	Digital I/O.
12	RC1	I/O	Digital I/O.
13	RC2	I/O	Digital I/O.
14	RC3	I/O	Digital I/O.
15	RC4	I/O	Digital I/O.
16	RC5	I/O	Digital I/O.
17	RC6	I/O	Digital I/O.
18	RC7	I/O	Digital I/O.
19	V _{ss}	P	Ground reference for logic and I/O pins.
20	V _{DD}	P	Positive supply for logic and I/O pins.
21	INT0	I	External Interrupt 0.
22	RB1	I/O	Digital I/O.
23	RB2	I/O	Digital I/O.
24	RB3	I/O	Digital I/O.
25	RB4	I/O	Digital I/O. Interrupt-on-change pin.
26	RB5	I/O	Digital I/O. Interrupt-on-change pin.
27	RB6	I/O	Digital I/O. Interrupt-on-change pin. ICSP programming clock.
28	RB7	I/O	Digital I/O. Interrupt-on-change pin. ICSP programming data.

Legend: O=Output
I=Input
P=Power

ES6038 (MA: IC101)



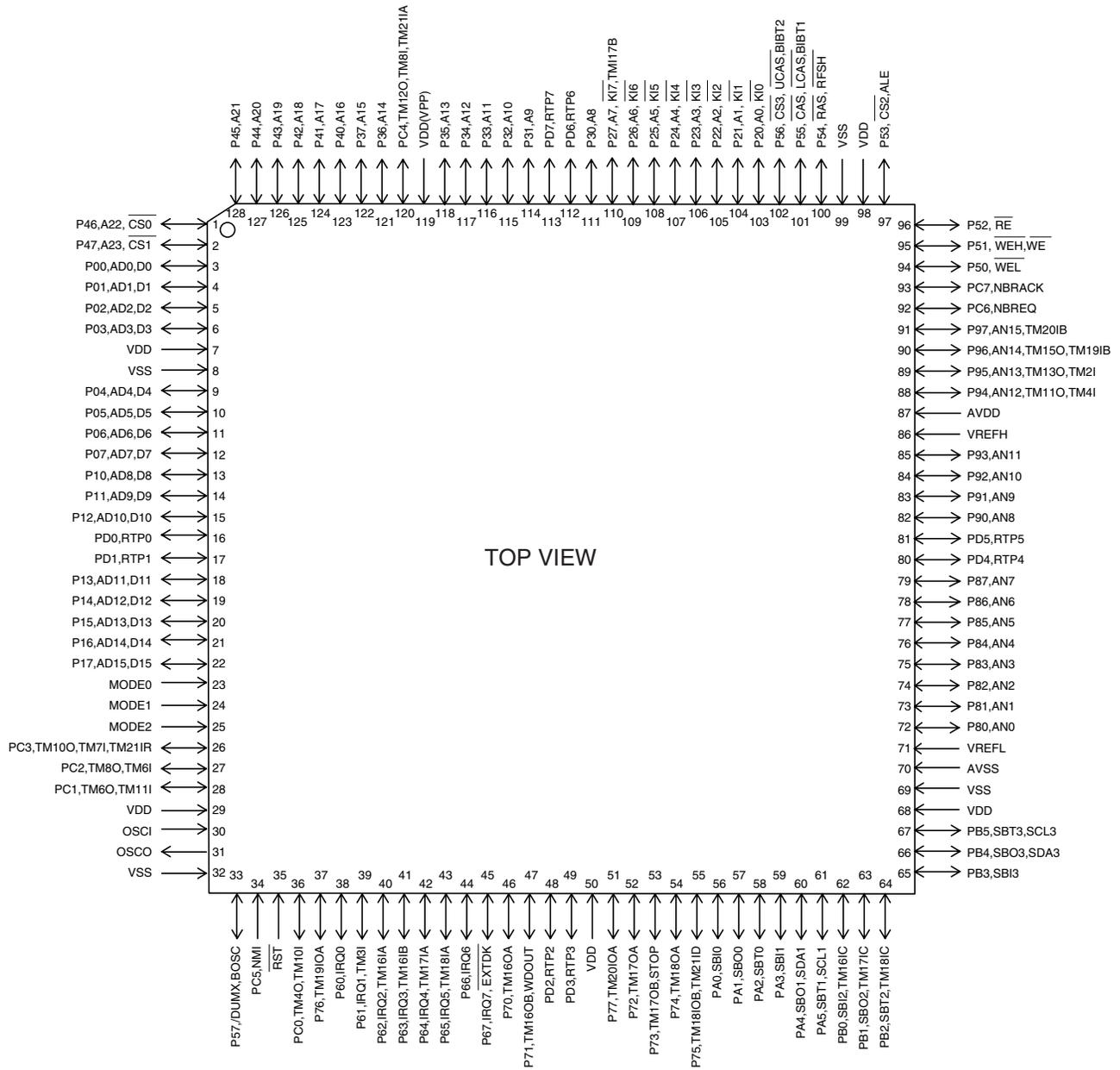
ES6038 Terminal Function

Pin No.	Pin Name	I/O	Function
1, 18, 27, 59, 68, 75, 92, 99, 104, 130, 148, 157, 159, 164, 183, 193, 201	VEE	I	I/O power supply.
8, 17, 26, 34, 43, 52, 60, 67, 76, 84, 91, 98, 103, 112, 120, 129, 138, 147, 156, 163, 171, 177, 184, 192, 200, 208	VSS	I	Ground.
23:19, 16:10, 7:2, 207:204	LA[21:0]	O	Device address output.
9, 35, 44, 83, 121, 139, 172	VCC	I	Core power supply.

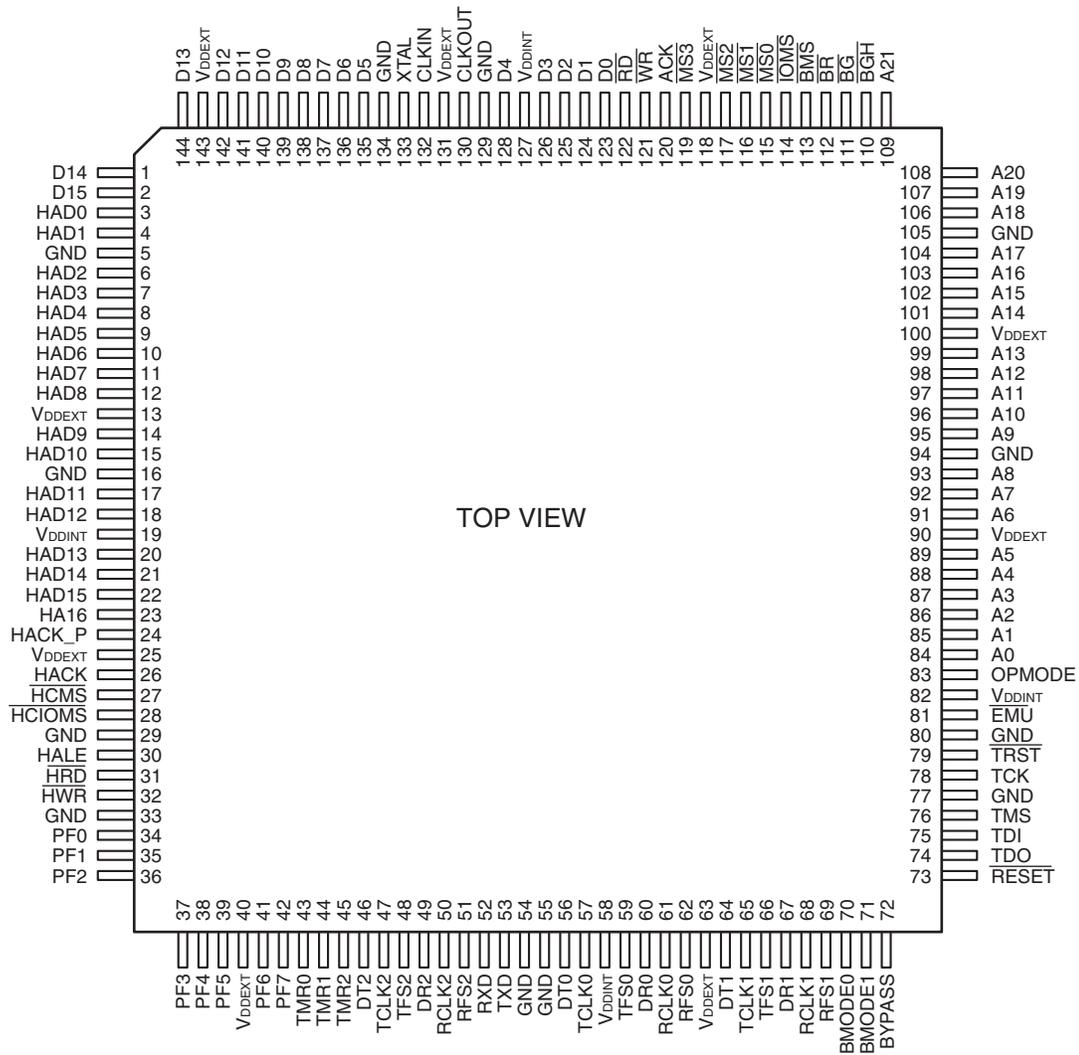
Pin No.	Pin Name	I/O	Function
24	RESET#	I	Reset input, active low.
25	TDMDX	O	TDM transmit data.
28	TDMDR	I	TDM receive data.
29	TDMCLK	I	TDM clock input.
30	TDMFS	I	TDM frame sync.
31	TDMTSC#	O	TDM output enable.
32	TWS	O	Audio transmit frame sync.
	SEL_PLL2	I	System and DSCK output clock frequency selection is made at the rising edge of RESET#. The matrix below lists the available clock frequencies and their respective PLL bit settings.
			SEL_PLL2 SEL_PLL1 SEL_PLL0 Clock Type
			0 0 0 VCO off.
			0 0 1 DCLK
			0 1 0 Bypass mode
			0 1 1 DCLK x 2
			1 0 0 DCLK x 4.5
		1 0 1 DCLK x 3	
		1 1 0 DCLK x 3.5z	
		1 1 1 DCLK x 4	
33	TSD0	O	Audio transmit serial data port 0.
	SEL_PLL0	I	Refer to the description and matrix for SEL_PLL2 pin 32.
36	TSD1	O	Audio transmit serial data port 1.
	SEL_PLL1	I	Refer to the description and matrix for SEL_PLL2 pin 32.
37	TSD[2]	O	Audio transmit serial data output 2.
38	TSD[3]	O	Audio transmit serial data output 3.
39	MCLK	I/O	Audio master clock for audio DAC.
40	TBCK	O	Audio transmit bit clock.
41	SPDIF	O	S/PDIF output.
	SEL_PLL3	I	Clock source select.
			SEL_PLL3 Clock Source 0 Crystal oscillator 1 DCLK input
42,48	NC		No connect pins. Leave open.
45	RSD	I	Audio receive serial data.
46	RWS	I	Audio receive frame sync.
47	RBCK	I	Audio receive bit clock.
49	XIN	I	Crystal input.
50	XOUT	O	Crystal output.
51	AVEE	I	Analog power for PLL.
66:61, 58:53	DMA[11:0]	O	DRAM address bus [11:0]
69	DCAS#	O	DRAM column address strobe,
70	DSCK_EN	O	DRAM clock enable.
71	DWE#	O	DRAM write enable.
72	DRAS#	O	DRAM row address strobe.
73	DMBS0	O	SDRAM bank select 0.
74	DMBS1	O	SDRAM bank select 1.
96:93, 90:85, 82:77	DB[15:0]	I/O	DRAM data bus [15:0]
97, 100	DCS[1:0]#	O	SDRAM chip select [1:0]
101	DQM	O	Data input/output mask.
102	DSCK	O	Output clock to SDRAM.
105	DCLK	I	27 MHz clock input to PLL.
106	YUV0	O	YUV0 pixel output data.
107	YUV1	O	YUV1 pixel output data.
108	YUV2	O	YUV2 pixel output data.
109	YUV3	O	YUV3 pixel output data.
110	YUV4	O	YUV4 pixel output data.
111	ADVEE	I	Analog power for video DAC.
113	YUV5	O	YUV5 pixel output data.

Pin No.	Pin Name	I/O	Function
114	YUV6	O	YUV6 pixel output data.
115	YUV7	O	YUV7 pixel output data.
116	PCLK2XSCN	I/O	27 MHz video output pixel clock.
117	PCLKQSCN	O	13.5 MHz video output pixel clock.
118	VSYNC#	I/O	Vertical sync, active low.
119	HSYNC#	I/O	Horizontal sync, active low.
127:122	HD[5:0]	I/O	Host data I/O [5:0].
128	HD[6]	I/O	Host data I/O [6].
131	HD[7]	I/O	Host data I/O [7].
132	HD[8]	I/O	Host data bus 8.
133	HD[9]	I/O	Host data bus line 9.
134	HD[10]	I/O	Host data bus line 10.
135	HD[11]	I/O	Host data bus line 11.
136	HD[12]	I/O	Host data bus line 12.
137	HD[13]	I/O	Host data bus line 13.
140	HD[14]	I/O	Host data bus line 14.
141	HD[15]	I/O	Host data bus line 15.
142	HWRQ#	O	Host write request.
143	HRRQ#	O	Host read request.
144	HIRQ	I/O	Host interrupt.
145	HRST#	O	Host reset.
146	HIORDY	I	Host I/O ready.
149	HWR#	I/O	Host write.
150	HRD#	O	Host read.
151	HIOCS16#	I	Device 16-bit data transfer.
152	HCS1FX#	O	Host select 1.
153	HCS3FX#	O	Host select 3.
158, 155:154	HA[2:0]	I/O	Host address bus.
160	AUX[1:0]	I/O	Auxiliary ports 1:0.
162	AUX[2]	I/O	Auxiliary ports 2.
165	AUX[3]	I/O	Auxiliary ports 3.
169:166	AUX[7:3]	I/O	Auxiliary ports 7:3.
170	LOE#	O	Device output enable.
176:173	LCS[3:0]#	O	Chip select [3:0].
197:194, 191:185, 182:178	LD[15:0]	I/O	EPROM device data bus.
198	LWRL#	O	Device low-byte write enable.
199	LWRHL#	O	Device high-byte write enable.
202	CAMIN0	I	Camera YUV 0.
203	CAMIN1	I	Camera YUV 1.

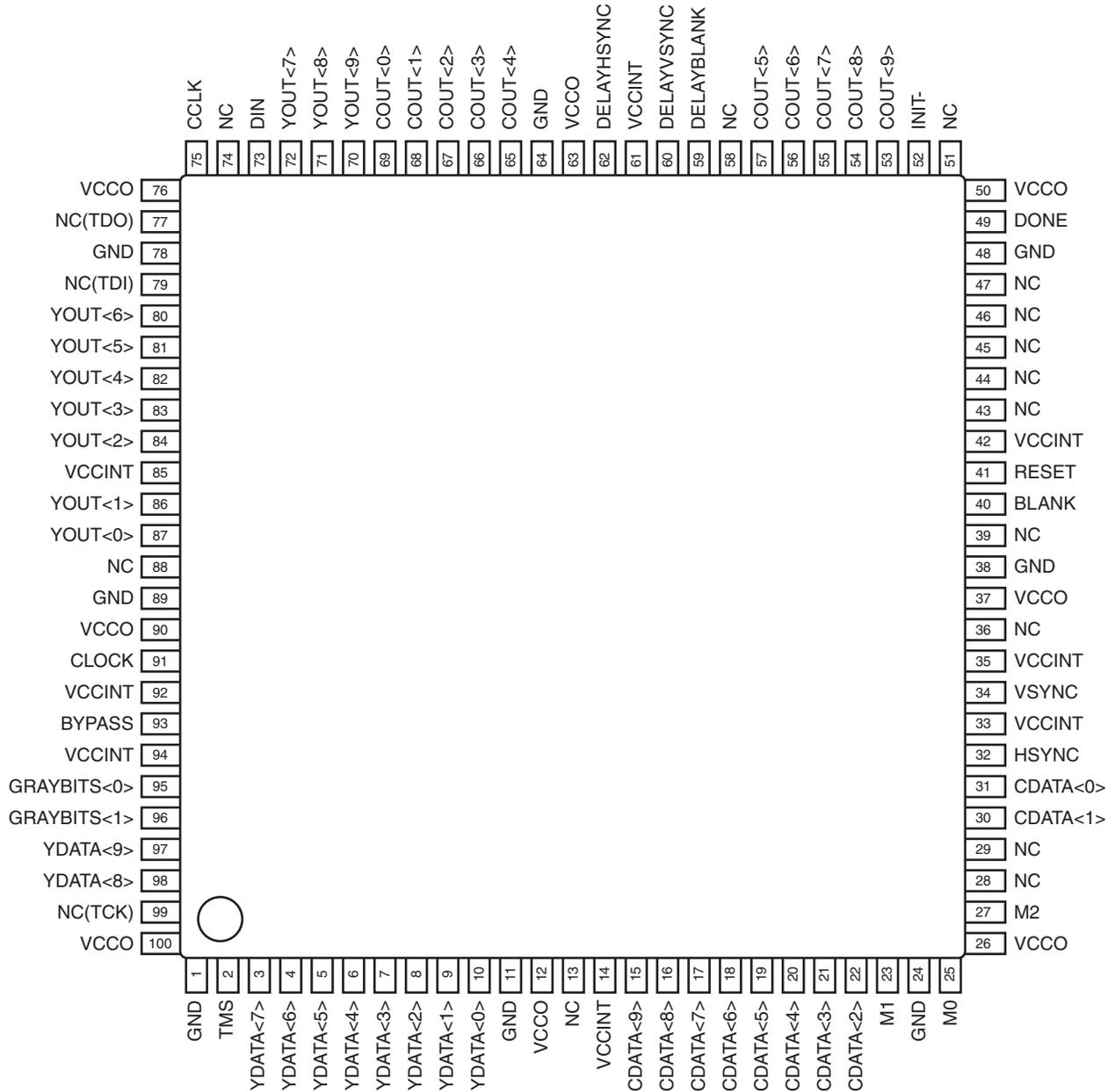
MN102H460B (MA: IC201)



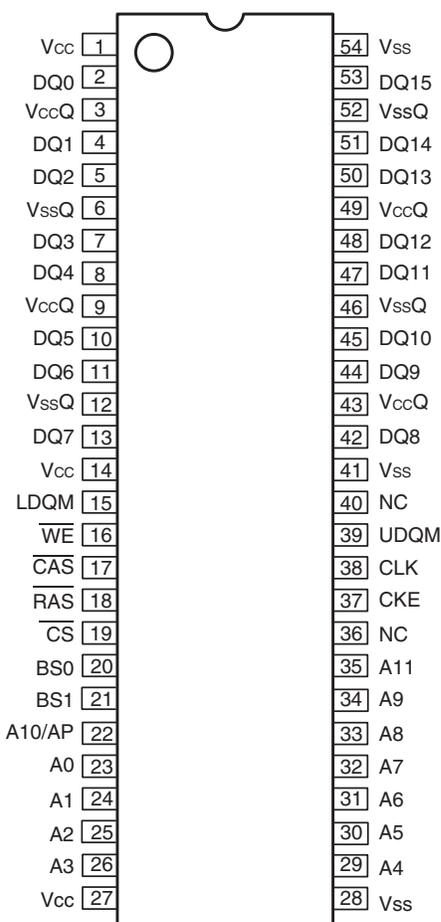
ADSPMEL322 (MA: IC207)



XC2S30-5VQ100C (MA: IC711)



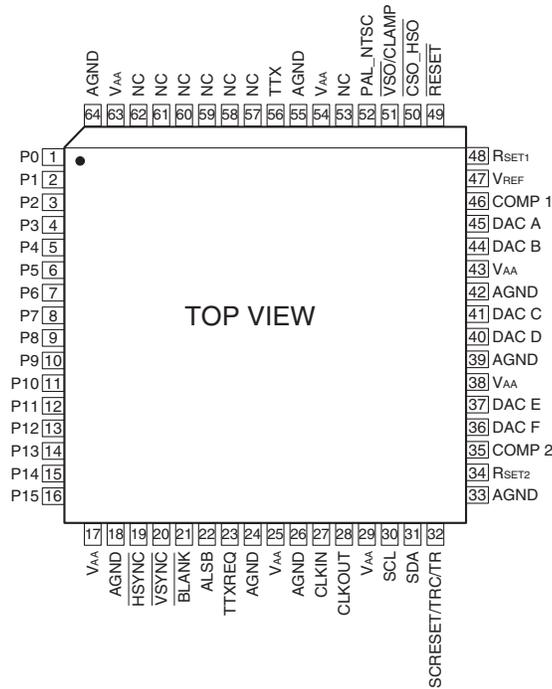
W986416DH (MA: IC103)



W986416DH Terminal Function

Pin No.	Pin Name	Function	Description
1, 14, 27	Vcc	Power (+3.3V)	Power for input buffers and logic circuit inside DRAM.
2, 4, 5, 7, 8, 10, 11, 13, 42, 44, 45, 47, 48, 50, 51, 53	DQ0-DQ15	Data Input/Output	Multiplexed pins for data output and input.
3, 9, 43, 49	VccQ	Power (+3.3V) for I/O buffer	Separated power from VCC, to improve DQ noise immunity.
6, 12, 46, 52	VssQ	Ground for I/O buffer	Separated ground from VSS, to improve DQ noise immunity.
16	WE	Write Enable	Referred to RAS.
17	CAS	Column Address Strobe	Referred to RAS.
18	RAS	Row Address Strobe	Command input. When sampled at the rising edge of the clock RAS, CAS and WE define the operation to be executed.
19	CS	Chip Select	Disable or enable the command decoder. When command decoder is disabled, new command is ignored and previous operation continues.
20, 21	BS0, BS1	Bank Select	Select bank to activate during row address latch time, or bank to read/write during address latch time.
23~26, 22, 29~35	A0-A11	Address	Multiplexed pins for row and column address. Row address: A0-A11. Column address: A0-A7. A10 is sampled during a precharge command to determine if all banks are to be precharged or bank selected by BS0, BS1.
28, 41, 54	Vss	Ground	Ground for input buffers and logic circuit inside DRAM.
36, 40	NC	No Connection	No Connection
37	CKE	Clock Enable	CKE controls the clock activation and deactivation. When CKE is low, Power Down mode, Suspend mode, or Self Refresh mode is entered.
38	CLK	Clock Inputs	System clock used to sample inputs on the rising edge of clock.
39, 15	UDQM, LDQM	Input/Output mask	The output buffer is placed at Hi-Z (with latency of 2) when DQM is sampled high in read cycle. In write cycle, sampling DQM high will block the write operation with zero latency.

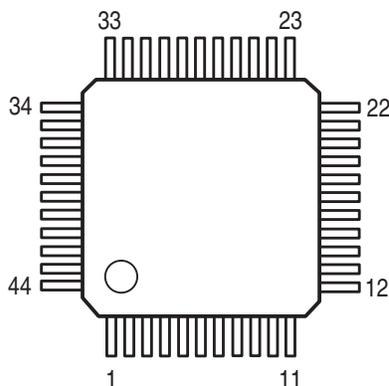
ADV7190 (AV: IC601)



ADV7190 Terminal Function

Pin No.	Pin Name	I/O	Function
1~16	P0-P15	I	8-Bit or 16-Bit 4:2:2 Multiplexed YCrCb Pixel Port. The LSB of the input data is set up on Pin P0.
17, 25, 29, 38, 43, 54, 63	VAA	P	Analog Power Supply (3.3V to 5V).
18, 24, 26, 33, 39, 42, 55, 64	AGND	G	Analog Ground.
19	HSYNC	I/O	HSYNC (Modes 1, 2, and 3) Control Signal. This pin may be configured to be an output (Master Mode) or an input (Slave Mode) and accept Sync Signals.
20	VSYNC	I/O	VSYNC Control Signal. This pin may be configured as an output (Master Mode) or as an input (Slave Mode) and accept VSYNC as a Control Signal.
21	BLANK	I/O	Video Blanking Control Signal. This signal is optional. For further information see Vertical Blanking Data Insertion and BLANK Input section.
22	ALSB	I	TTL Address Input. This signal sets up the LSB of the MPU address.
23	TTXREQ	O	Teletext Data Request Output Signal, used to control teletext data transfer.
27	CLKIN	I	TTL Clock Input. Requires a stable 27 MHz reference clock for standard operation. Alternatively, a 24.5454 MHz (NTSC) or 29.5 MHz (PAL) can be used for square pixel operation.
28	CLKOUT	O	Clock Output Pin.
30	SCL	I	MPU Port Serial Interface Clock Input.
31	SDA	I/O	MPU Port Serial Data Input/Output.
32	SCRESET/RTC/TR	I	Multifunction Input: Real-Time Control (RTC) Input, Timing Reset Input, Subcarrier Reset Input.
34	RSET2	I	A 1200 ohm resistor connected from this pin to ground is used to control full-scale amplitudes of the Video Signals from DACs D, E, and F.
35	COMP 2	O	Compensation Pin for DACs D, E, and F. Connect a 0.1µF Capacitor from COMP2 to VAA.
36	DAC F	O	S-Video C/V/RED Analog Output. This DAC is capable of providing 4.33 mA output.
37	DAC E	O	S-Video Y/U/BLUE Analog Output. This DAC is capable of providing 4.33 mA output.
40	DAC D	O	Composite/Y/GREEN Analog Output. This DAC is capable of providing 4.33 mA output.
41	DAC C	O	S-Video C/V/RED Analog Output. This DAC is capable of providing 4.33 mA output.
44	DAC B	O	S-Video Y/U/BLUE Analog Output. This DAC is capable of providing 4.33 mA output.
45	DAC A	O	Composite/Y/GREEN Analog Output. This DAC is capable of providing 4.33 mA output.
46	COMP 1	O	Compensation Pin for DACs A, B, and C. Connect a 0.1µF Capacitor from COMP1 to VAA.
47	VREF	I/O	Voltage Reference Input for DACs or Voltage Reference Output (1.235V). An external VREF cannot be used in 4x oversampling mode.
48	RSET1	I	A 1200 ohm resistor connected from this pin to ground is used to control full-scale amplitudes of the Video Signals from DACs A, B, and C.
49	RESET	I	The input resets the on-chip timing generator and sets the ADV7190/ADV7191 into default mode. See Appendix 8 for Default Register Settings.
50	CSO_HSO	O	Dual function CSO or HSO Output Sync Signal at TTL Level.
51	VSO/CLAMP	I/O	Multifunction Pin. VSO Output Sync Signal at TTL level. CLAMP TTL Output Signals can be used to drive external circuitry to enable clamping of all Video Signals.
52	PAL_NTSC	I	Input signal to select PAL or NTSC mode of operation, pin set to Logic 1 selects PAL.
53, 57~62	NC		No Connect.
56	TTX	I	Teletext Data Input Pin.

DXP7001AF (AV: IC201)



DXP7001AF Terminal Function

Pin No.	Pin Name	I/O	Description	
1	MDT	Ip	Microcomputer Interface Data	
2	MCK	Ip	Microcomputer Interface Clock	
3	MLEN	Ip	Microcomputer Interface Latch Enable	
4	RSTN	Ip	Reset Terminal	
5	DLRCK	Ip	Audio Serial Input Data L/R Clock	
6	VSS	-	Ground Terminal	
7	DBCK	Ip	Audio Serial Input Bit Clock	
8	DDT	Ip	Audio Serial Input Data	
9	TEST2N	Ip	Test Setting Terminal 2 (Alpha-processor 1 Output shifts 12-bit.)	
10	TEST3N	Ip	Test Setting Terminal 3 (Alpha-processor 2 Output stops.)	
11	TEST4N	Ip	Test Setting Terminal 4 (Lambda-processor Output stops.)	
12	DFBCK	Ip	Lambda-processor Input Bit Clock	
13	DFWCK	Ip	Lambda-processor Input Word Clock	
14	DOL	Ip	Lambda-processor Input Data L-channel	
15	DOR	Ip	Lambda-processor Input Data R-channel	
16	LMOD	Ip	Lambda-processor Operation Mode Set	
17	OMOD1	Ip	Output Mode Setting Terminal 1	
18	OMOD2	Ip	Output Mode Setting Terminal 2	
			OMOD1	
			L	H
			OMOD2	L
H	20bit Parallel	24bit Parallel		
19	INVIN	Ip	Lambda-processor Input Reversed Polarity Terminal	
20	BCKO	O	Lambda-processor Output Bit Clock	
21	WCKO	O	Lambda-processor Output Word Clock	
22	WCKO2	O	Lambda-processor Output Word Clock 2 (for Canceling OFFSET on 1DAC)	

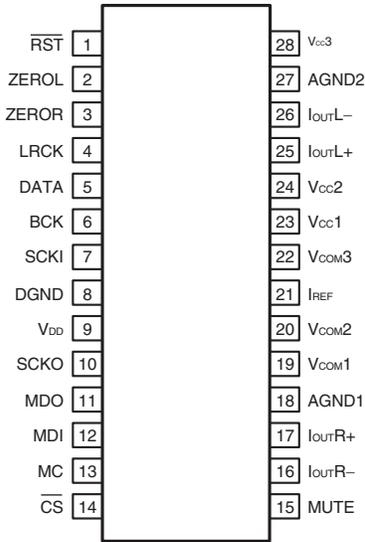
Pin No.	Pin Name	I/O	Description	
23	-P24L	O	-/Lambda-processor Lch 24 th bit Output *1, *2	
24	-P23L	O	-/Lambda-processor Lch 23 rd bit Output *1, *2	
25	-P22L	O	-/Lambda-processor Lch 22 nd bit Output *1, *2	
26	-P21L	O	-/Lambda-processor Lch 21 st bit Output *1	
27	-P20L	O	-/Lambda-processor Lch 20 th bit Output *1	
28	VDD	-	Power Supply Terminal	
29	SO2L/P19L	O	Lambda-processor Lch(-) Output /19 th bit Output *1	
30	SO1L	O	Lambda-processor Lch(+) Output	
31	SO1R	O	Lambda-processor Rch(+) Output	
32	SO2R/P19R	O	Lambda-processor Rch(-) Output /19 th bit Output *1	
33	-P20R	O	-/Lambda-processor Rch 20 th bit Output *1	
34	-P21R	O	-/Lambda-processor Rch 21 st bit Output *1, *2	
35	-P22R	O	-/Lambda-processor Rch 22 nd bit Output *1, *2	
36	-P23R	O	-/Lambda-processor Rch 23 rd bit Output *1, *2	
37	-P24R	O	-/Lambda-processor Rch 24 th bit Output *1, *2	
38	TEST1N	Ip	Test Terminal 1 (Alpha-processor 1 stops)	
39	CKSLN	Ip	System Clock Select (384fs system / 256fs system)	
40	CKDV1	Ip	System Clock Divider Select Terminal 1	
41	CKDV2	Ip	System Clock Divider Select Terminal 2	
			CKDV1	
			L	H
			CKDV2	L
H	192fs (CKSLN=H) 256fs (CKSLN=H)	384fs		
42	XTI	I	X-TAL Oscillator Input Terminal	
43	XTO	O	X-TAL Oscillator Output Terminal	
44	CKO	O	Clock Output Terminal	

(Ip = Input Terminal with pull-up)

*1: Outputted on OMOD1=L (18-bit Alternate Output or 20-bit Parallel Output)

*2: Internal Signal is outputted on OMOD1=H (24-bit Alternate Output or 24-bit Parallel Output) and one of TEST1N, TEST2N, TEST3N or TEST4N is set to L.

PCM1738-1 (AV: IC206, 209, 212)

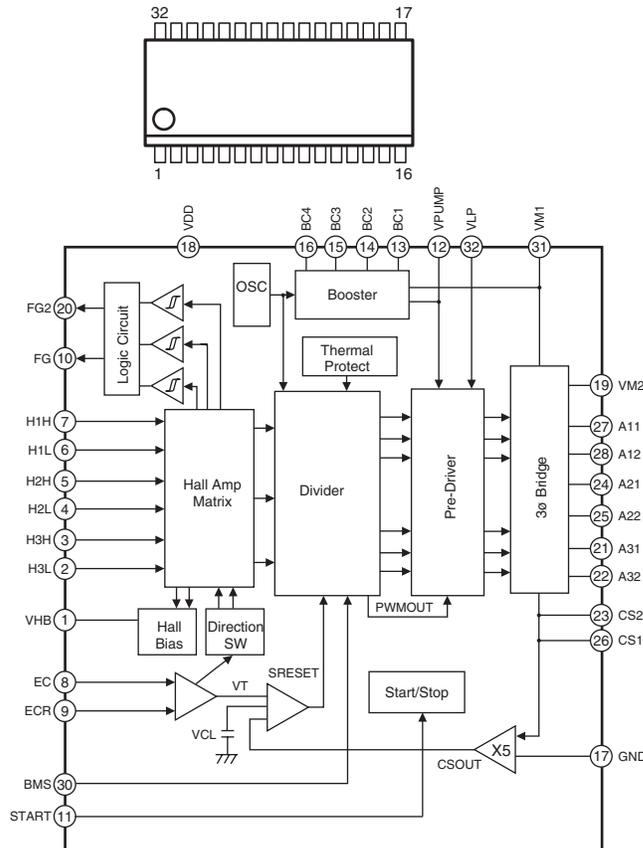


PCM1738-1 Terminal Function

Pin No.	Pin Name	I/O	Function
1	RST	I	Reset ⁽¹⁾
2	ZEROL	O	Zero-flag for Lch
3	ZEROR	O	Zero-flag for Rch
4	LRCK	I	Normal mode: L/R clock (fs) input ⁽¹⁾ Ext. DF mode: WDCK clock input DSD mode: GND connection
5	DATA	I	Normal mode: Serial audio data input ⁽¹⁾ Ext. DF & DSD mode: Lch audio data input
6	BCK	I	Normal mode: Bit clock input ⁽¹⁾ DSD mode: GND connection
7	SCKI	I	Normal mode: System clock input ⁽¹⁾ DSD mode: BCK (64fs) clock input
8	DGND	—	Digital GND
9	VDD	—	Digital power +3.3V
10	SCKO	O	System clock output
11	MDO	O	Function control register serial data output ⁽²⁾
12	MDI	I	Function control register serial data input ⁽¹⁾
13	MC	I	Function control register shift clock ⁽¹⁾
14	CS	I	Mode control chip select and latch signal ⁽¹⁾
15	MUTE	I	Normal mode: Analog output mute control ⁽¹⁾ Ext. DF & DSD mode: Rch audio data input
16	IoutR-	O	Rch analog current output (-)
17	IoutR+	O	Rch analog current output (+)
18	AGND1	—	Analog GND
19	VCOM1	—	Internal bias de-coupling pin
20	VCOM2	—	Common mode voltage of I/V
21	IREF	—	Output current reference bias pin
22	VCOM3	—	Internal bias de-coupling pin
23	Vcc1	—	Analog power +5.0V
24	Vcc2	—	Analog power +5.0V
25	IoutL+	O	Lch analog current output (+)
26	IoutL-	O	Lch analog current output (-)
27	AGND2	—	Analog GND
28	Vcc3	—	Analog power +5.0V

Note: (1) Schmitt trigger input, 5V input possible (2) Tri-state output

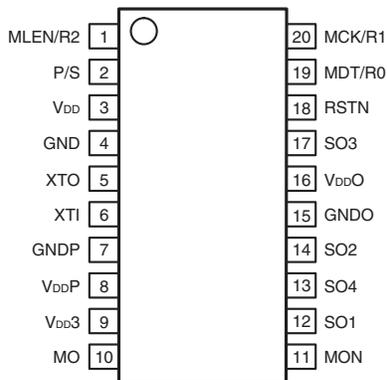
AN8471SA (MA: IC503)



AN8471SA 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 lout 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

SM8701BM (MA: IC109)

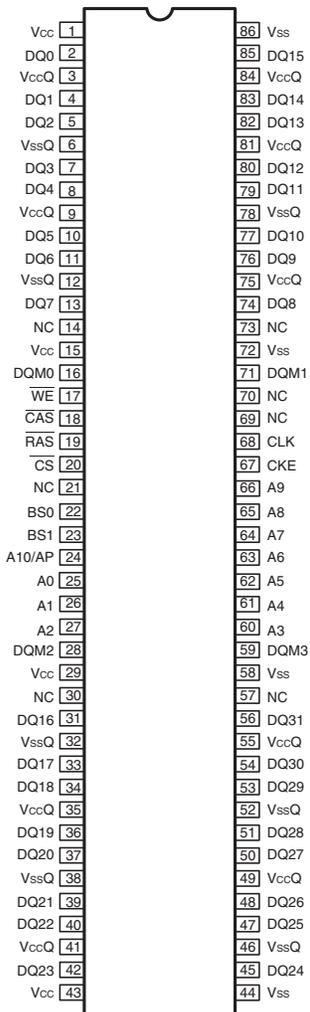


SM8701BM Terminal Function

Pin No.	Pin Name	I/O	Function
1	MLEN/R2	Ip ¹	Control signal input. In serial mode: latch enable signal In parallel mode: sampling rate select signal
2	P/S	Ip ¹	Mode select signal. LOW: serial mode, HIGH: parallel mode
3	V _{DD}	—	5V supply (Digital block)
4	GND	—	Ground (Digital block)
5	XTO	O	Reference signal crystal oscillator element connection
6	XTI	I	Reference signal crystal oscillator element connection or external clock input
7	GNDDP	—	Ground (PLL block)
8	V _{DDP}	—	5V supply (PLL block)
9	V _{DD3}	—	3.3V supply (output buffer)
10	MO	O	27 MHz fixed-frequency output
11	MON	O	27 MHz fixed-frequency output (inverted)
12	SO1	O	33.8688 MHz fixed-frequency output
13	SO4	O	768fs output
14	SO2	O	256fs output
15	GNDO	—	Ground (output buffer)
16	V _{DDO}	—	3.3V supply (output buffer)
17	SO3	O	384fs output
18	RSTN	Ip ²	LOW-level reset input
19	MDT/R0	Ip ¹	Control signal input. In serial mode: control data input signal In parallel mode: sampling frequency select signal
20	MCK/R1	Ip ¹	Control signal input. In serial mode: clock signal In parallel mode: sampling frequency select signal

Note: 1. Schmitt trigger input with pull-down resistor
2. Schmitt trigger input with pull-up resistor

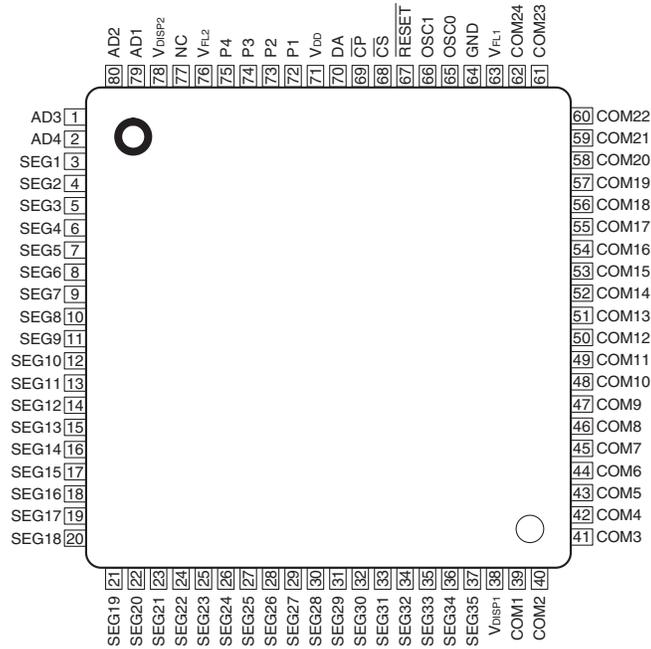
**64M SDRAM (MA: IC702)
W986432AH**



W986432AH Terminal Function

Pin No.	Pin Name	Function
25~27, 60~66, 24	A0-A10	Address for row and column
22, 23	BS0, BS1	Bank Select to activate during row address latch time
2, 4, 5, 7, 8, 10, 11, 13, 31, 33, 34, 36, 37, 39, 40, 42, 45, 47, 48, 50, 51, 53, 54, 56, 74, 76, 77, 79, 80, 82, 83, 85	DQ0-DQ31	Data Input / Output pins for data
20	\overline{CS}	Chip Select to disable or enable the command decoder
19	\overline{RAS}	Row Address Strobe
18	\overline{CAS}	Column Address Strobe
17	\overline{WE}	Write Enable
16, 28, 59, 71	DQM0-DQM3	Input / Out put Mask
68	CLK	Clock Inputs
67	CKE	Clock Enable
1, 15, 29, 43	V _{CC}	Power (+3.3V)
44, 58, 72, 86	V _{SS}	Ground
3, 9, 35, 41, 49, 55, 75, 81	V _{CCQ}	Power (+3.3V) for I/O Buffer
6, 12, 32, 38, 46, 52, 78, 84	V _{SSQ}	Ground for I/O Buffer
14, 21, 30, 57, 69, 70, 73	NC	No Connection

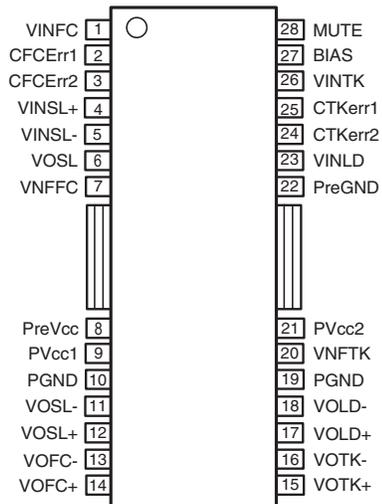
ML9207-01 (PD: IC101)



ML9207-01 Terminal Function

Pin No.	Pin Name	I/O	Function
3~37	SEG1~35	O	FL display anode drive output pin
39~62	COM1~24	O	FL display grid drive output pin
1,2, 79, 80	AD1~4	O	FL display anode drive output pin
72~75	P1~4	O	General port output pin
71	VDD	—	VDD-GND: Power supply for logic block V _{DISP} -V _{FL} : Power supply for FL display drive For V _{DD} and V _{DISP} , apply from same power source
38, 78	V _{DISP1~2}		
64	GND		
63, 76	V _{FL1~2}		
70	DA	I	Serial data input pin (positive logic)
69	CP	I	Shift clock input pin
68	CS	I	Chip select input pin
67	RESET	I	Reset input pin
65	OSC0	I	Pin for self-oscillation
66	OSC1	O	

BA5952AFP (MA: IC504)

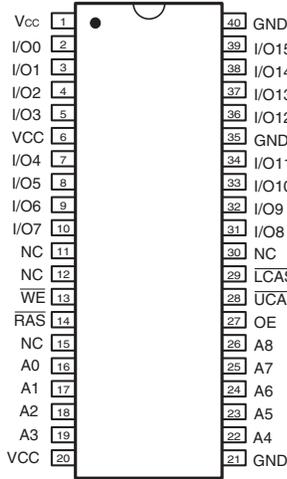


Terminal Function

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

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

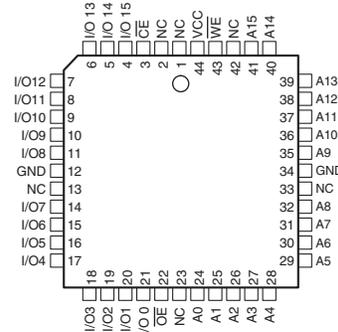
- IS41C16256
- M11B416256A



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

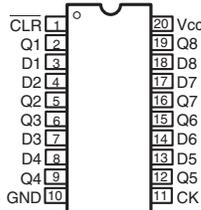
AT49LV1025 (MA: IC202)



Terminal Function

Pin Name	Function
A0-A15	Address Inputs
CE	Chip Enable
OE	Output Enable
WE	Write Enable
I/O0-I/O15	Data Inputs/Outputs
NC	No Connection

SN74AHCT273PW (MA: IC104, 105, 114)

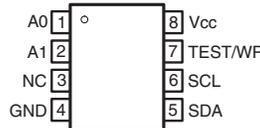


Truth Table

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

X: Don't Care

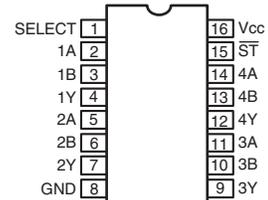
S-24C02BFJ-TB (MA: IC106)



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

TC74VHC157A (MA: IC113)



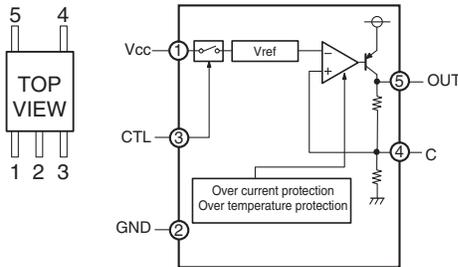
TOP VIEW

Terminal Function

INPUTS				OUTPUTS
ST	SELECT	A	B	Y
H	X	X	X	L
L	L	L	X	L
L	L	H	X	H
L	H	X	L	L
L	H	X	H	H

X: Don't Care

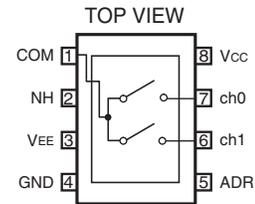
BA033LBSG (AV: IC205, 208, 211)



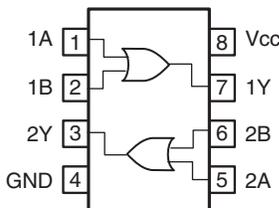
Terminal Function

Pin No.	Name	Function
1	Vcc	Power
2	GND	Ground
3	CTL	Power Save
4	C	Ripple Improve
5	OUT	Output

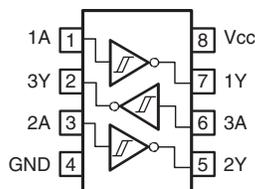
TC4W53F (SC: IC855) (Europe model only)



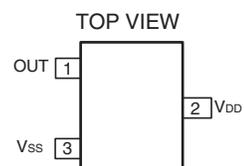
TC7W32F (MA: IC107)



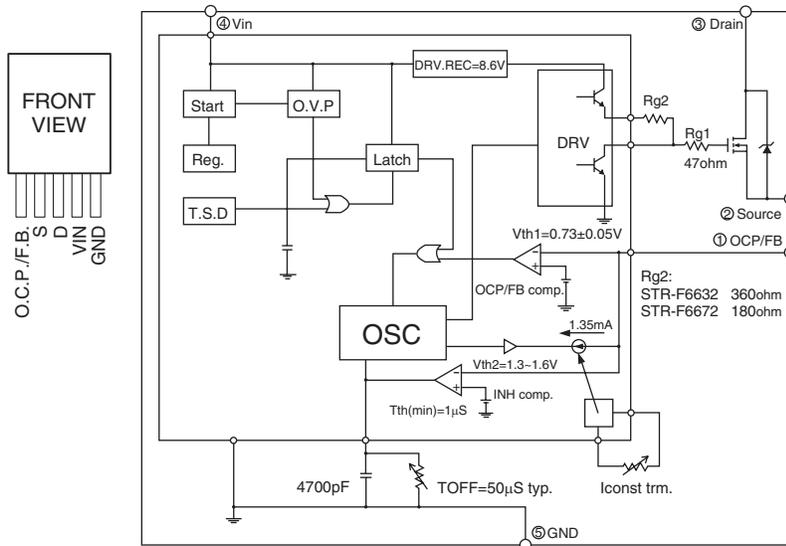
TC7W14F (MA: IC111, 115, 116)



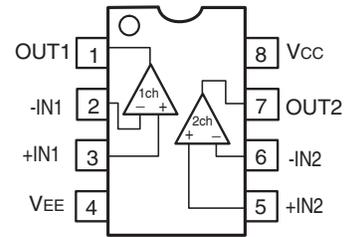
MN1382-S (MA: IC203)



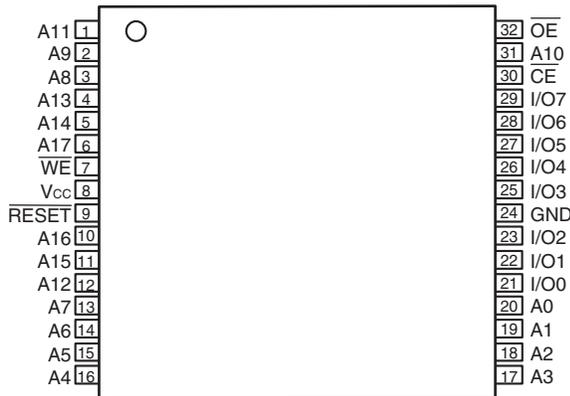
STR-F6674 (PD: IC901)



- BA15218F (MA: IC510)**
- NJM2068DD (AV: IC407, 408)**
- NJM2068MD (AV: IC301~308, 401~406)**
- NJM4558M (MA: IC502)**
- TK15420MTL (AV: IC701~707, 803, 804)**

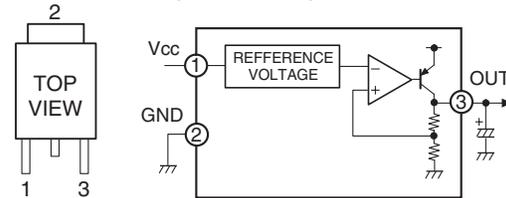


AT49LV002-70TC (MA: IC210)

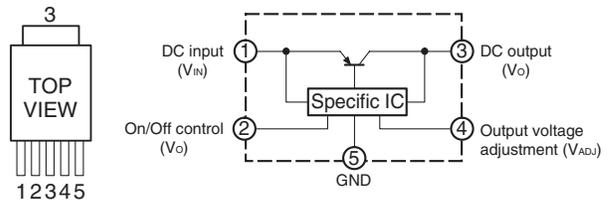


BA033FP (MA: IC302, 512)

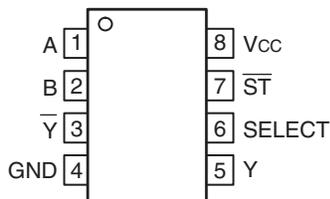
BA18BC0FP (MA: IC710)



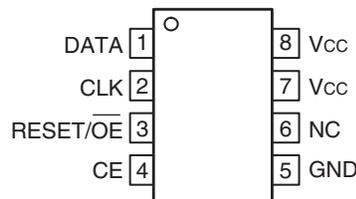
PQ070XZ01Z (MA: IC301, 303, 304, 709)



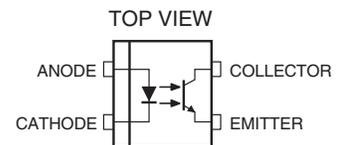
TC7WH157FU (MA: IC112)



XC17S30AV08C (MA: IC712)

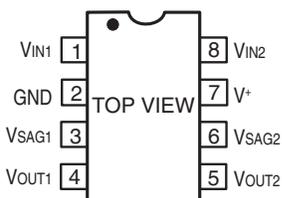


PC123 (PD: IC902)

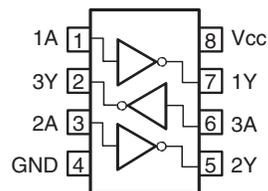


NJM2267M (SC: IC852)

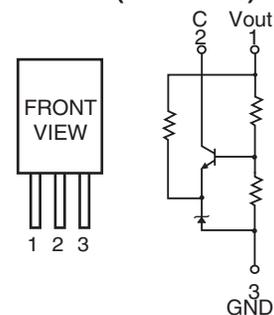
(Europe model only)



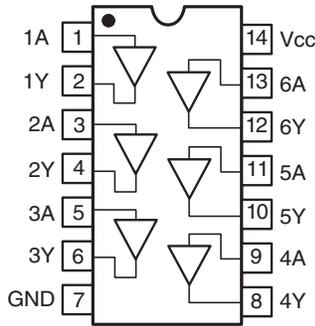
TC7WU04F (MA: IC108, 110)



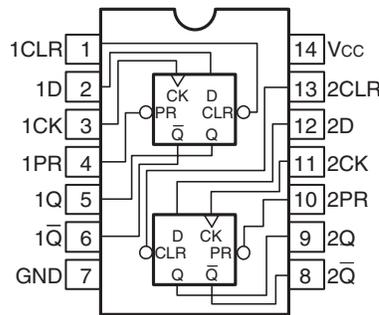
SE005N (PD: IC903)



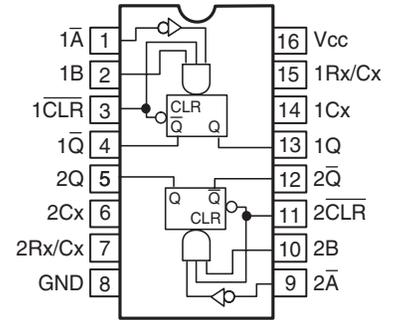
TC74HCT7007AF (MA: IC206, 209)



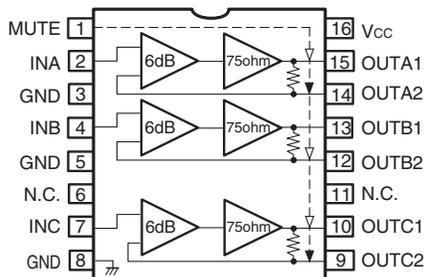
SN74LV74APW (AV: IC215)



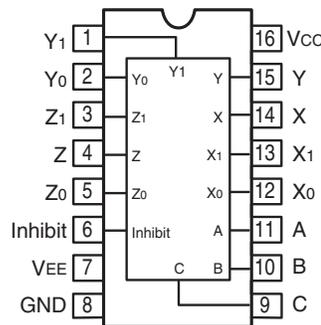
TC74VHC123AF (AV: IC602, 708)



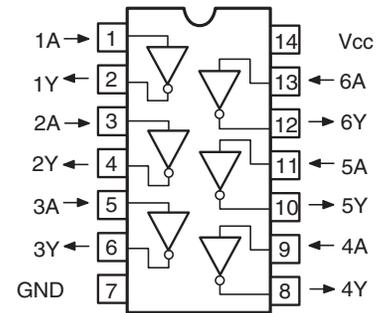
**BA7660FS (SC: IC856)
(Europe model only)**



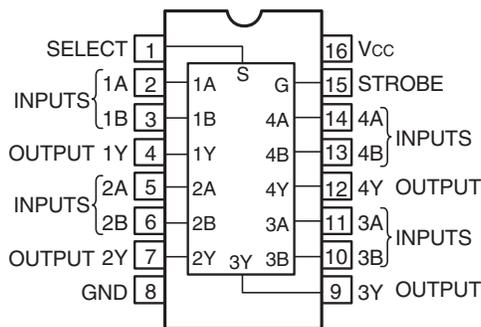
**TC4053BF (AV: IC801, 802)
(SC: IC851~854, 858)
(Europe model only)**



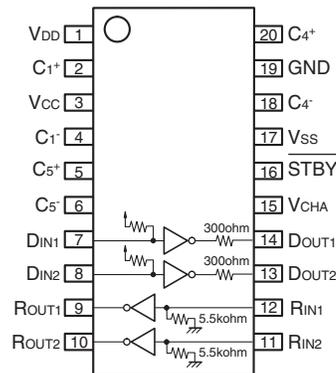
**SN74LV04APW (MA: IC208, 213)
TC74HCT04AF (AV: IC219, 506)
TC74HCU04AF (AV: IC216)**



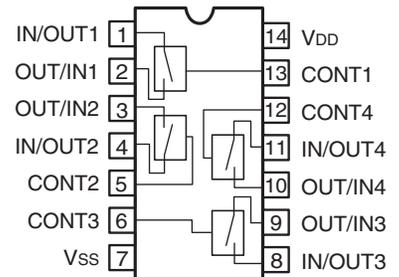
SN74LV157APW (AV: IC214)



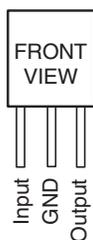
μPD4721GS (PD: IC511)



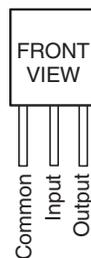
74VHC4066MTC (MA: IC506)



**BA033T (PD: IC904)
NJM7805FA(S) (AV: IC204, 207,
210, 951)
NJM7812FA(S) (AV: IC953)**



**NJM7905FA (AV: IC952)
NJM7912FA (AV: IC954)**



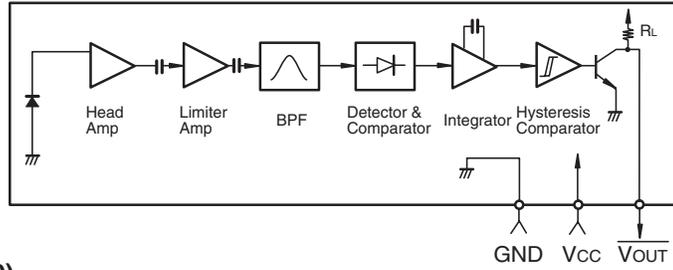
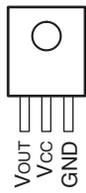
PQ1CG21H2FZ (PD: IC905)



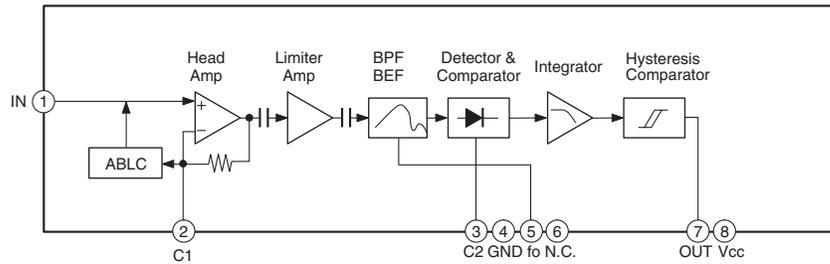
● OTHERS

GP1UM271XK (Remote Control Sensor)
(PD: IC103)

TOP VIEW



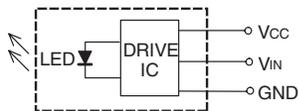
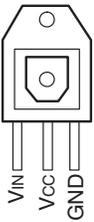
CXA1511M (PD: IC510)



● OPTICAL

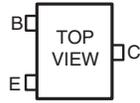
Output
GP1FA551TZ (AV: JK503)

FRONT VIEW

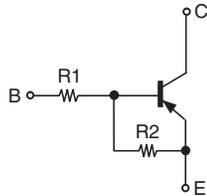


● TRANSISTORS

2SA1022
 2SA1036K (Europe model only)
 2SB709A
 2SC2411K (Europe model only)
 2SC2412K
 2SD601A
 KTC2875B
 DTA114EK
 DTA124EK
 DTC114EK
 DTC124TK (Europe model only)
 DTC143EK
 DTC143TK
 DTC144EK (Europe model only)
 DTC144TK (Europe model only)

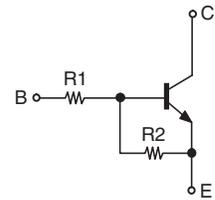


DTA114EK
 DTA124EK



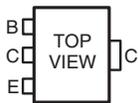
	R1	R2
DTA114EK	10kohm	10kohm
DTA124EK	22kohm	22kohm

DTC114EK
 DTC124TK
 DTC143EK
 DTC143TK
 DTC144EK
 DTC144TK

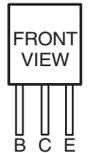


	R1	R2
DTC114EK	10kohm	10kohm
DTC124TK	22kohm	—
DTC143EK	4.7kohm	4.7kohm
DTC143TK	4.7kohm	—
DTC144EK	47kohm	47kohm
DTC144TK	47kohm	—

2SB1260



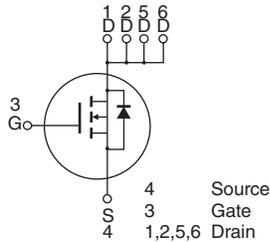
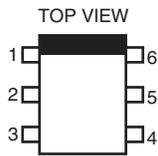
2SB1266
 2SB1274
 2SD1902



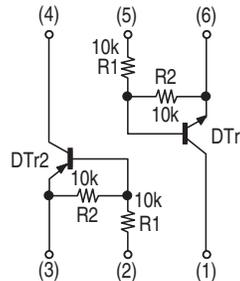
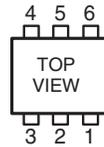
2SC1740S
 2SD468



HAT2053M

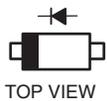


IMD3A

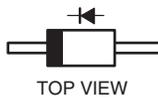


● DIODES (Including LED)

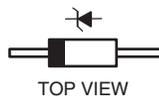
1SS355
 RB161L-40



1SR139-400
 AG01ZT(V1)
 AL01ZT(V1)
 EM01AT(V1)
 RJ43 LF015-305
 RK39 LF-C4
 SARS01T(V1)



HZS4C-1



MA152A
 (Europe model only)



MA152WK
 (Europe model only)



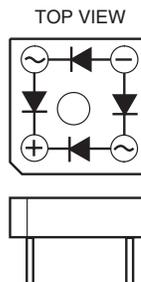
UDZS12B
 UDZS13B



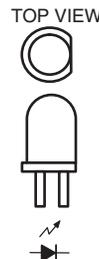
RB411D



S4VB20



SEL1210S (Red)
 SELU1E10CXM-002 (Blue)



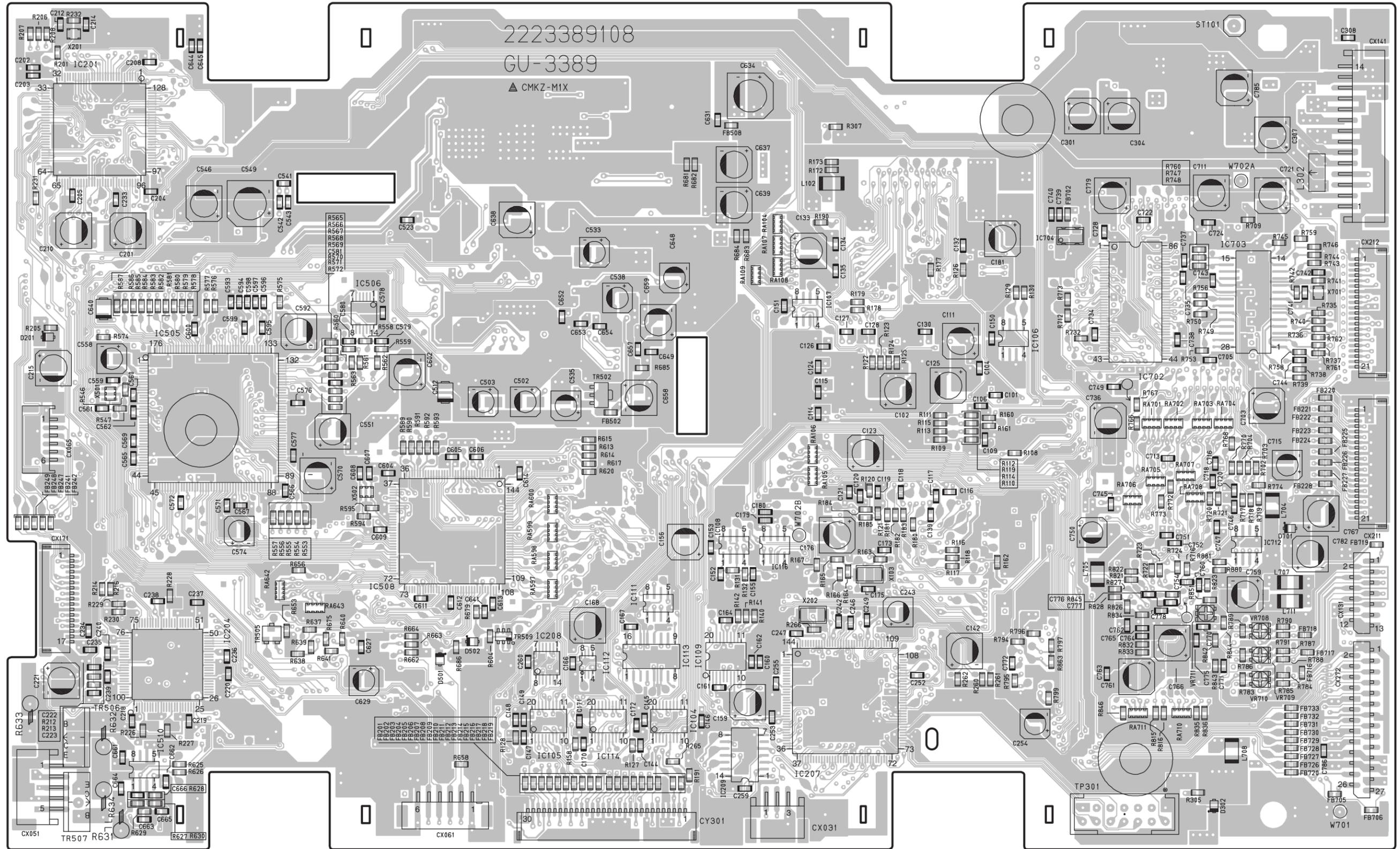
SEL2810A (Amber)



PRINTED WIRING BOARD

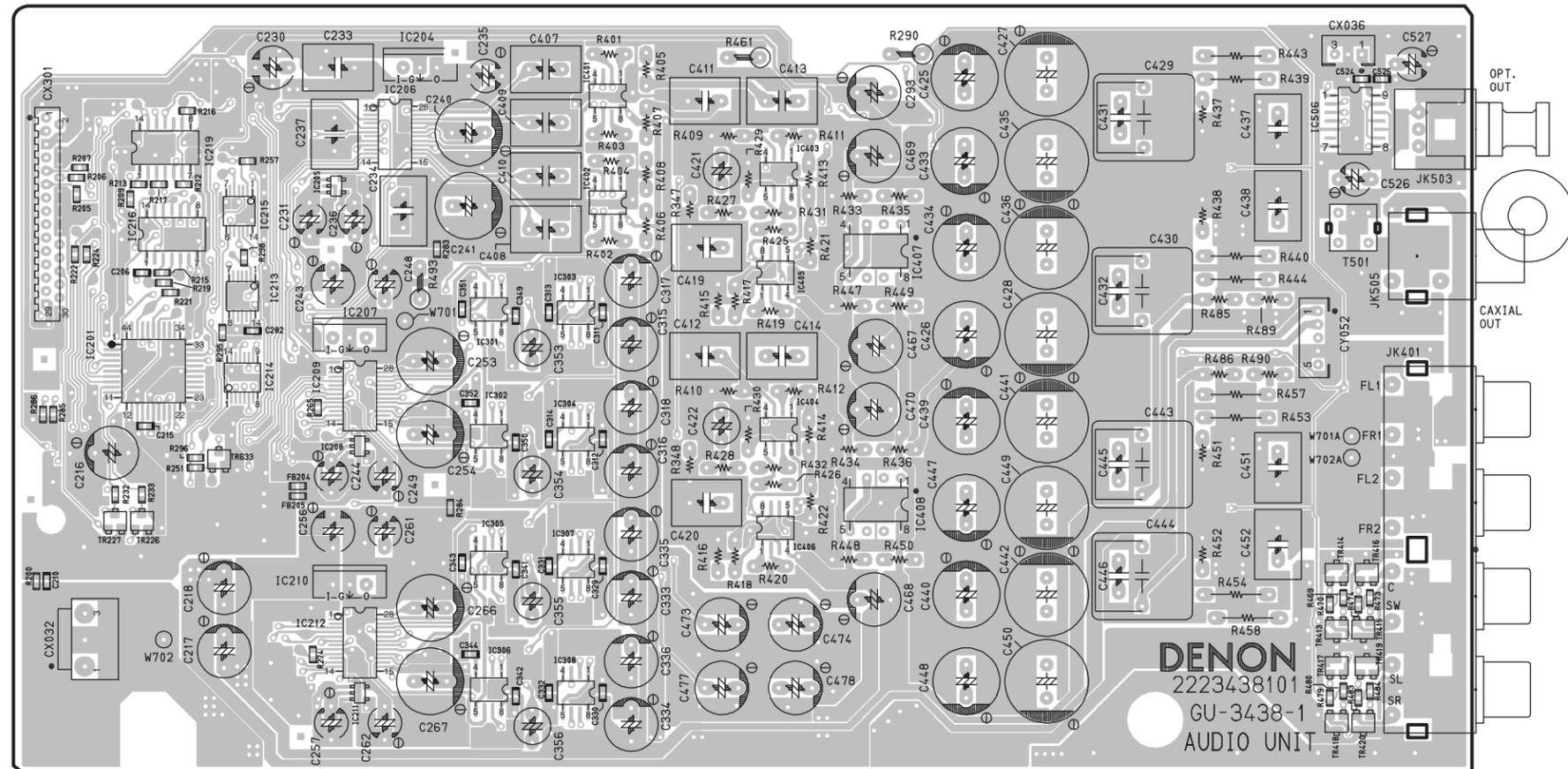
GU-3389A MAIN P.W.B. UNIT Ass'y

1 2 3 4 5 6 7 8

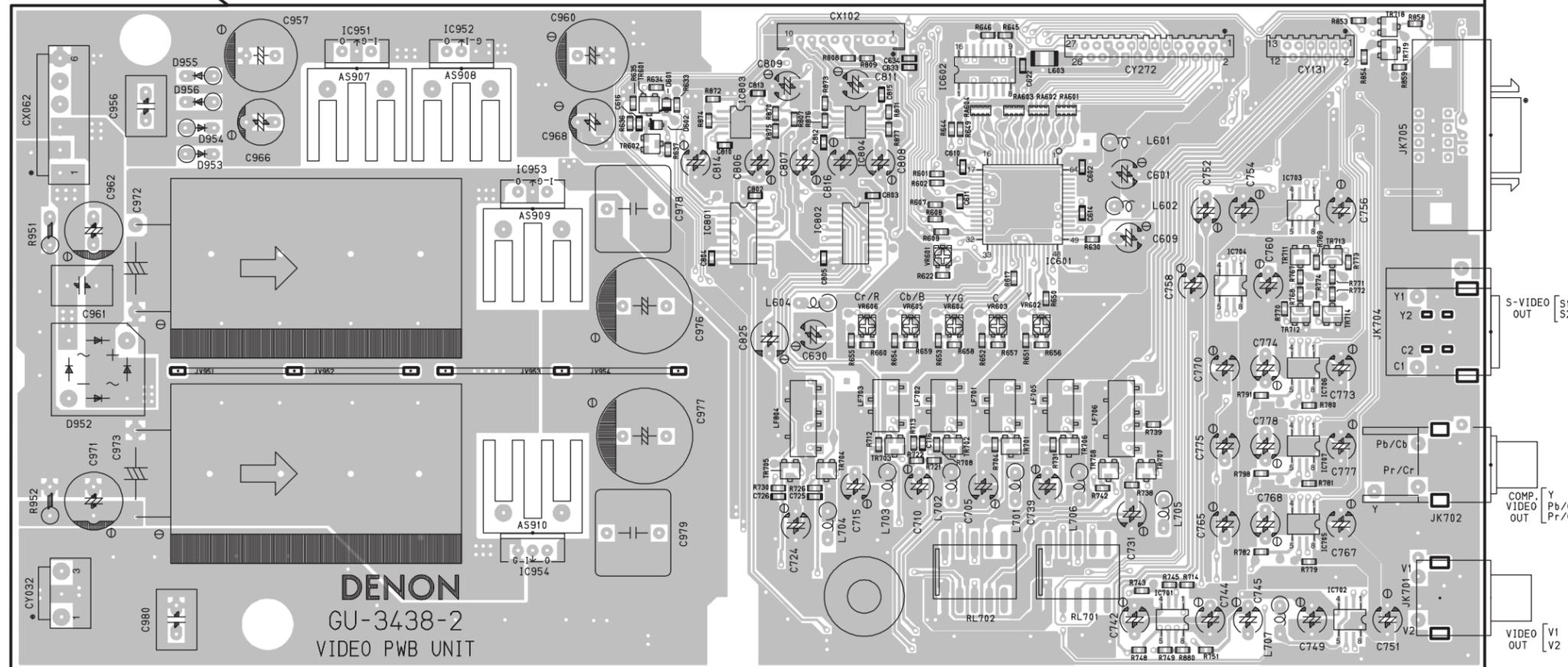


A
B
C
D
E

1 2 3 4 5 6 7 8
GU-3438 AUDIO/VIDEO P.W.B. UNIT Ass'y



GU-3438-1 AUDIO P.W.B.

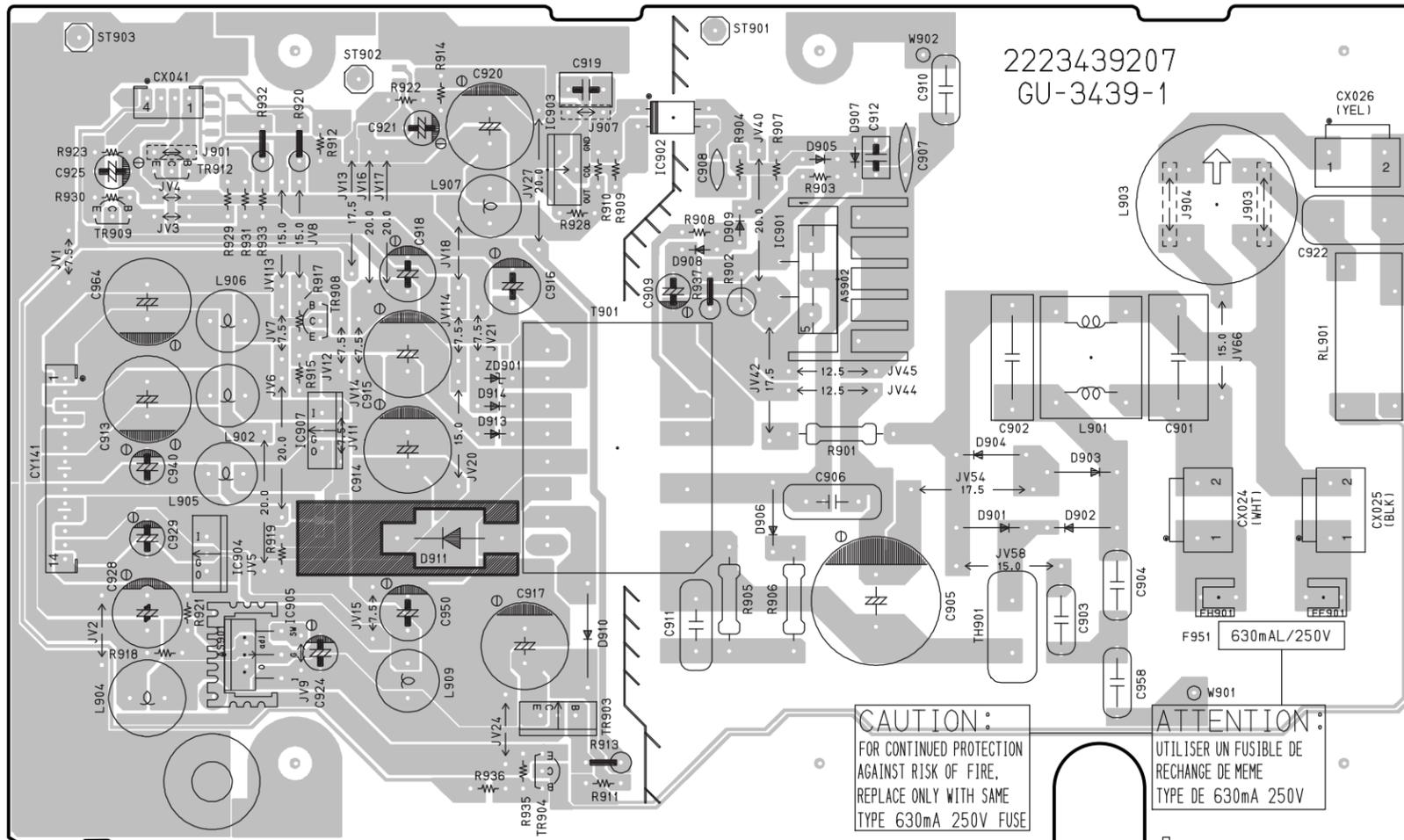


GU-3438-2 VIDEO P.W.B.

A
B
C
D
E

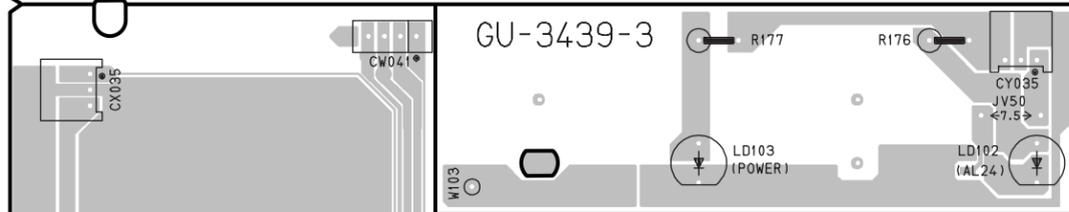
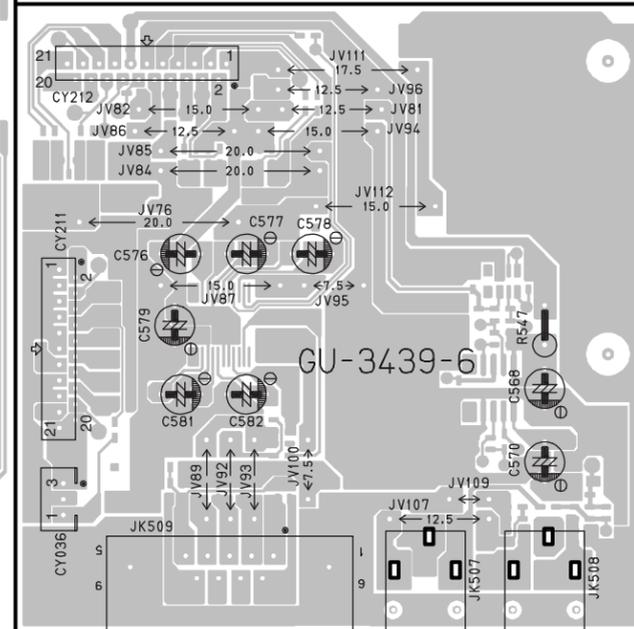
1 2 3 4 5 6 7 8

GU-3439 POWER/DISPLAY P.W.B. UNIT Ass'y

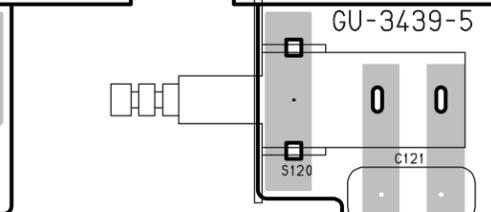


GU-3439-1 DIGI. POWER P.W.B.

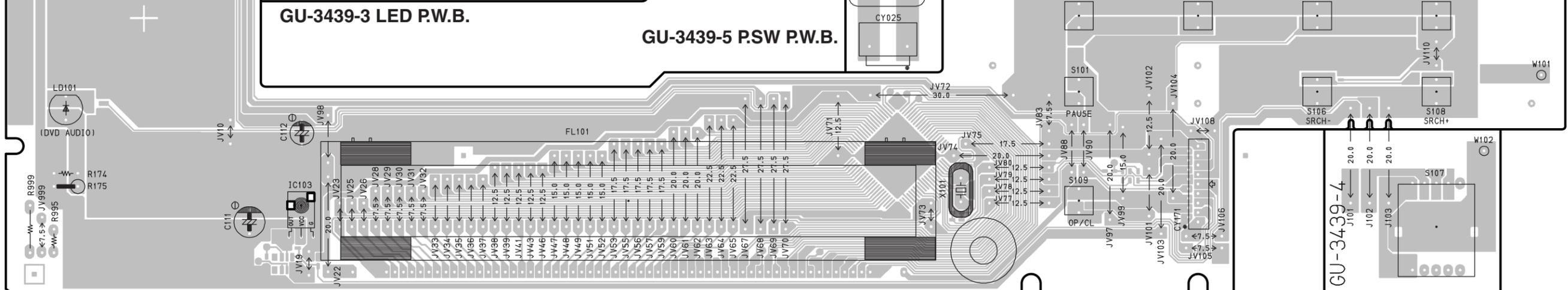
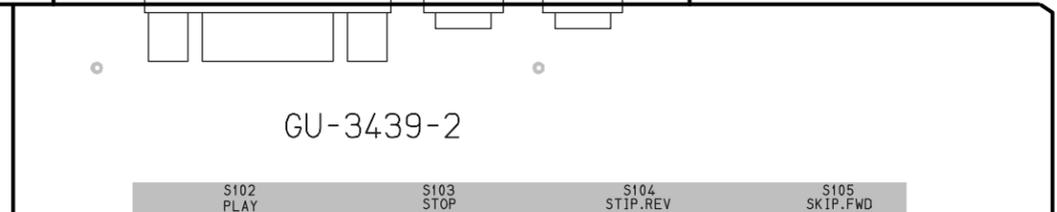
GU-3439-6 I/F P.W.B.



GU-3439-3 LED P.W.B.



GU-3439-5 PSW P.W.B.

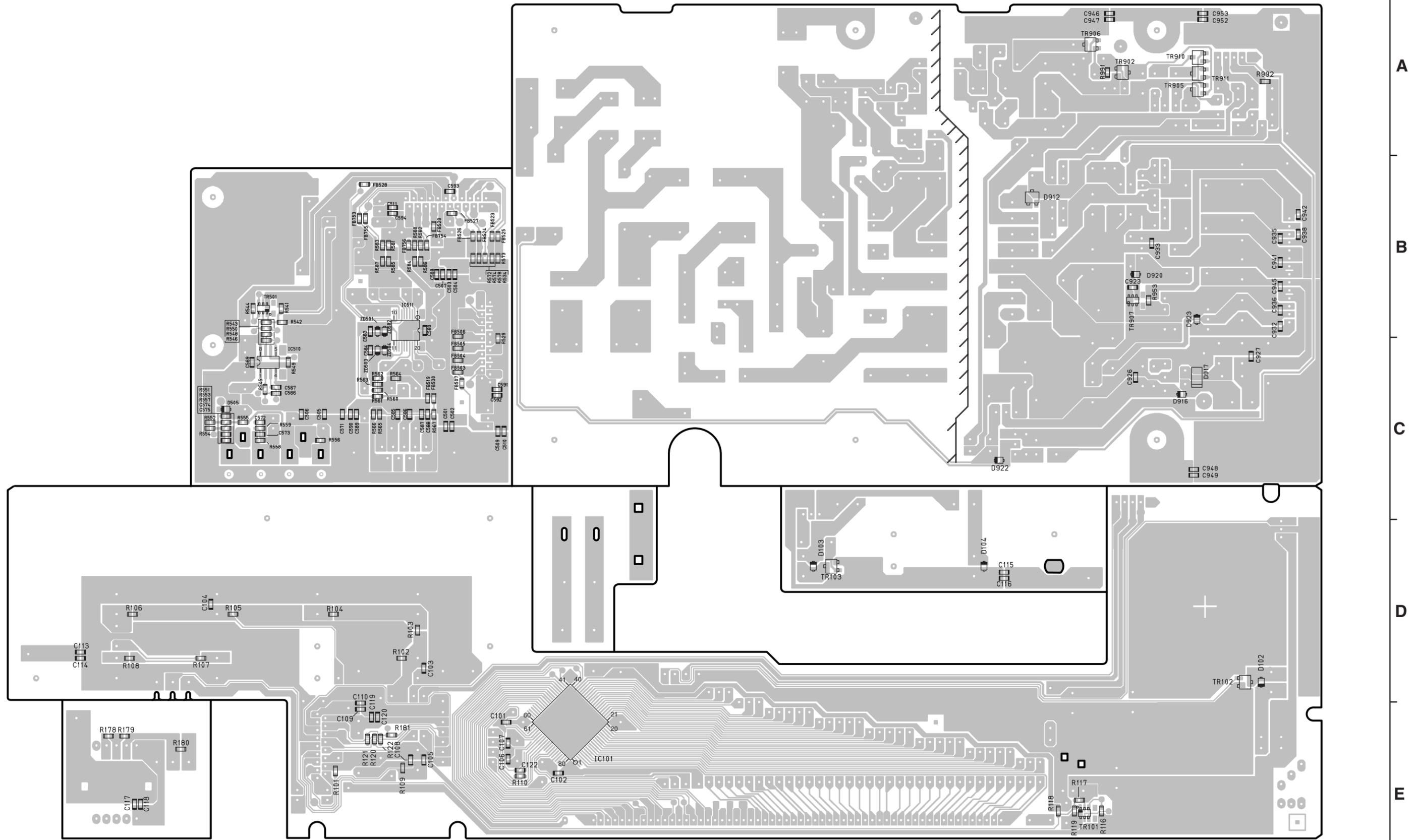


GU-3439-2 DISPLAY P.W.B.

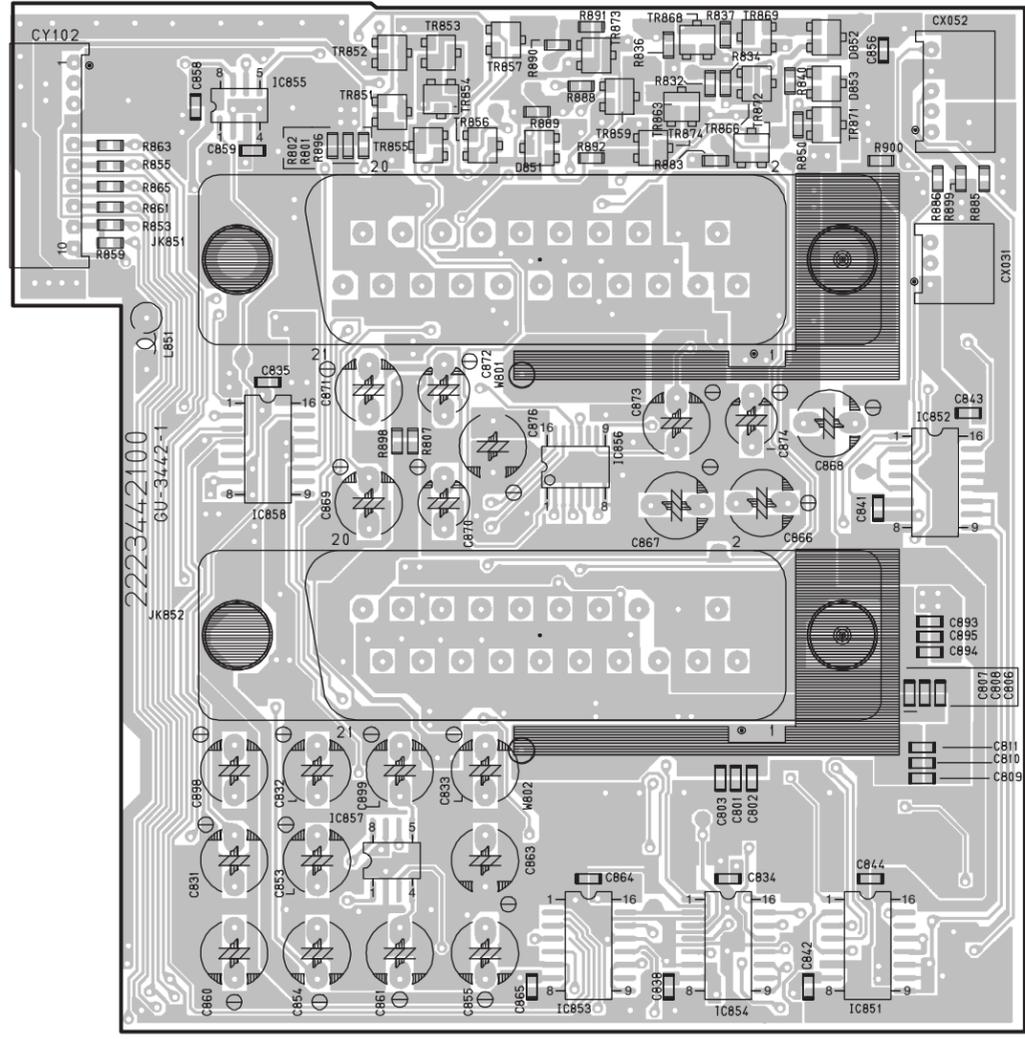
GU-3439-6 SW P.W.B. COMPONENT SIDE

A
B
C
D
E

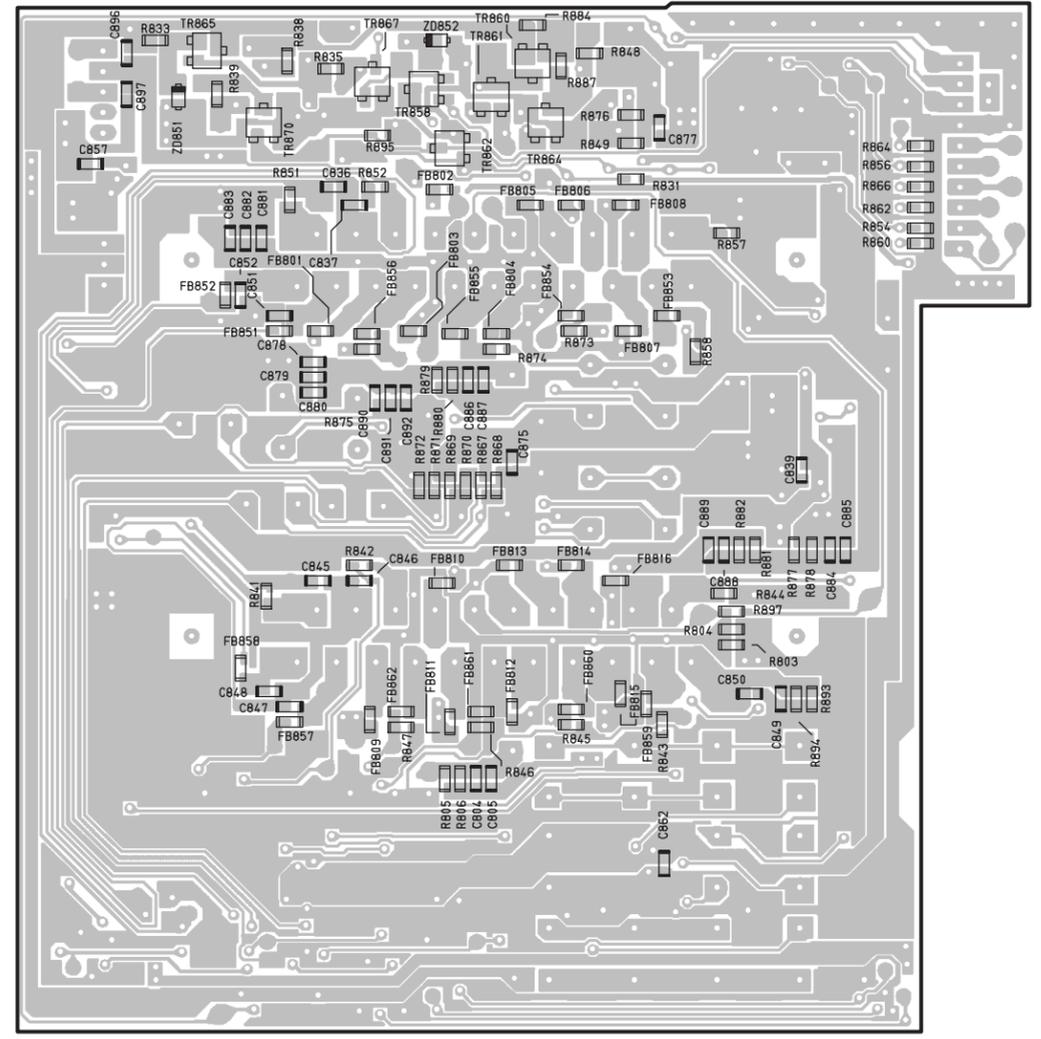
1 2 3 4 5 6 7 8
GU-3439 POWER/DISPLAY P.W.B. UNIT Ass'y



1 2 3 4 5 6 7 8
GU-3442 SCART P.W.B. UNIT Ass'y (Europe model only)



COMPONENT SIDE



FOIL SIDE

A
B
C
D
E

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 182 G FR
 Type Shape Power Resist- Allowable Others
 and per- ance error

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

* **Resistance**

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

• Units: ohm

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

• Units: ohm

● **Capacitors**

Ex.: CE 04W 1H 2R2 M BP
 Type Shape Dielectric Capacity Allowable Others
 and per- strength error

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

* **Capacity (electrolyte only)**

2 2 2 ⇒ 2200µF
 ↑ ↑ ↑
 Indicates number of zeros after effective number.
 2-digit effective number.

• Units: µF.

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

• Units: µF.

* **Capacity (except electrolyte)**

2 2 2 ⇒ 2200pF=0.0022µF
 ↑ ↑ ↑
 (More than 2) — Indicates number of zeros after effective number.
 2-digit effective number.

• Units: pF.

2 2 1 ⇒ 220pF
 ↑ ↑ ↑
 (0 or 1) — Indicates number of zeros after effective number.
 2-digit 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 ASS'Y

GU-3389A MAIN P.W.B. UNIT

Note : The symbols in the column "Remarks" indicate the following destinations.
 E3 : U.S.A. & Canada model E2 : Europe model
 E1 : Asia model

Ref. No.	Part No.	Part Name	Remarks	
SEMICONDUCTORS GROUP				
IC101	262 3051 007	IC ES6038	MX29LV160BTC-90	
IC102	GEN 6094	ROM sub Ass'y		
IC103	262 3119 004	IC W986416DH-7		
IC104,105	262 2801 902	IC SN74AHCT273PW-EL2		
IC106	262 3053 908	IC S-24C02BFJ-TB		
IC107	262 2391 904	IC TC7W32F(TE12L)		
IC108	262 1953 903	IC TC7WU04F		
IC109	262 3052 909	IC SM8701BM		
IC110	262 1953 903	IC TC7WU04F		
IC111	262 2104 900	IC TC7W14F		
IC112	262 3046 902	IC TC7WH157FU		
IC113	262 3129 900	IC TC74VHC157AF-EL		
IC114	262 2801 902	IC SN74AHCT273PW-EL2		
IC115,116	262 2104 900	IC TC7W14F		
IC201	262 3054 004	IC MN102H460B	AT49LV1025-70JC	
IC202	GEN 6093	ROM sub Ass'y		
IC203	262 1647 905	IC MN1382-S(TX)		
IC206	262 2376 903	IC TC74HCT7007AF(TP1)		
IC207	262 3121 005	IC ADSPMEL322		
IC208	262 2515 900	IC SN74LV04APW-EL2		
IC209	262 2376 903	IC TC74HCT7007AF(TP1)		
IC210	GEN 6074	Bass M.ROM sub Ass'y		
IC301	263 1110 901	IC PQ070XZ01ZP		AT49LV002-70TC
IC302	263 1079 903	IC BA033FP		
IC303,304	263 1110 901	IC PQ070XZ01ZP		
IC501	262 2802 008	IC TA1293F	TMP95FY64F	
IC502	263 0425 901	IC NJM4558M (TAPE)		
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		
IC510	263 0615 902	IC BA15218F-DXE2		
IC511	GEN 6100	DRV ROM sub Ass'y		
IC512	263 1079 903	IC BA033FP		
IC701	262 3058 000	IC SII504CM208		
IC702	262 2916 004	IC 64M SDRAM(TSOP)		
IC703	262 3059 902	IC PIC18LC242-I/SO TAPE		
IC706	262 3050 008	IC ADV7300		
IC708	262 1348 903	IC TC74HC123AF(TP1)		
IC709	263 1110 901	IC PQ070XZ01ZP		
IC710	262 2977 904	IC BA18BC0FP-E2		
IC711	262 3126 000	IC XC2S30-5VQ100C		
IC712	262 3127 009	IC XC17S30AV08C(SQZ)		

Ref. No.	Part No.	Part Name	Remarks
TR501,502	272 0156 902	Transistor 2SB1260-Q	
TR503-505	269 0091 906	Transistor DTC143TKT96	
TR506	274 0154 007	Transistor 2SD1902(R,S)	
TR507	272 0110 003	Transistor 2SB1266(R,S)	
TR509	269 0171 907	Transistor IMD3A-T108	
TR707	271 0293 901	Transistor 2SA1022-B	
TR708,709	272 0125 904	Transistor 2SB709A	
D201	276 0717 903	Diode 1SS355 TE-17	
D301-303	276 0717 903	Diode 1SS355 TE-17	
D501,502	276 0717 903	Diode 1SS355 TE-17	
D701	276 0717 903	Diode 1SS355 TE-17	
RESISTORS GROUP			
R101	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
R102-105	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470JT
R106	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R107,108	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470JT
R109	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B--472JT (1608)
R111	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B--472JT (1608)
R113	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B--472JT (1608)
R116-118	247 2009 941	Carbon chip 6.8 kohm 1/16W	RM73B--682JT
R119	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B--472JT (1608)
R120-125	247 2009 941	Carbon chip 6.8 kohm 1/16W	RM73B--682JT
R126	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R127-130	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
R131	247 2014 965	Carbon chip 1 Mohm 1/16W	RM73B--105JT
R132	247 2006 944	Carbon chip 390 ohm 1/16W	RM73B--391JT
R133	247 2003 989	Carbon chip 33 ohm 1/16W	RM73B--330JT
R135-137	247 2003 989	Carbon chip 33 ohm 1/16W	RM73B--330JT
R143	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
R144	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R145,146	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470JT
R147,148	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R150,151	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470JT
R152-155	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R157	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470JT
R158	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
R159	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R160	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R163	247 2014 965	Carbon chip 1 Mohm 1/16W	RM73B--105JT
R164	247 2005 987	Carbon chip 220 ohm 1/16W	RM73B--221JT
R166,167	247 2003 989	Carbon chip 33 ohm 1/16W	RM73B--330JT
R169-174	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R177-179	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R180-185	247 2003 989	Carbon chip 33 ohm 1/16W	RM73B--330JT
R186,187	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R189-191	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R201	247 2003 989	Carbon chip 33 ohm 1/16W	RM73B--330JT	R535	247 2018 916	Carbon chip 1 ohm 1/16W	RM73B--010KT
R202	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470JT	R536	247 2011 942	Carbon chip 47 kohm 1/16W	RM73B--473JT
R203	247 2008 984	Carbon chip 3.9 kohm 1/16W	RM73B--392JT	R537-540	247 2018 916	Carbon chip 1 ohm 1/16W	RM73B--010KT
R205	247 2005 987	Carbon chip 220 ohm 1/16W	RM73B--221JT	R541,542	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R207	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B--472JT (1608)	R543-545	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R209	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B--472JT (1608)	R546	247 2014 965	Carbon chip 1 Mohm 1/16W	RM73B--105JT
R211	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B--472JT (1608)	R547	247 2006 902	Carbon chip 330 ohm 1/16W	RM73B--331JT (1608)
R231	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	R548	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R233,234	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	R549	247 2013 982	Carbon chip 470 kohm 1/16W	RM73B--474JT
R235	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	R550	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B--472JT (1608)
R236	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	R551,552	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R237	247 2014 965	Carbon chip 1 Mohm 1/16W	RM73B--105JT	R553-557	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R238-242	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	R558	247 2012 996	Carbon chip 200 kohm 1/16W	RM73B--204JT
R243	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT	R559	247 2009 925	Carbon chip 5.6 kohm 1/16W	RM73B--562JT
R244,245	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	R560	247 2009 941	Carbon chip 6.8 kohm 1/16W	RM73B--682JT
R247,248	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	R561,562	247 2009 925	Carbon chip 5.6 kohm 1/16W	RM73B--562JT
R250,251	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	R563	247 2010 985	Carbon chip 27 kohm 1/16W	RM73B--273JT
R253	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	R564	247 2011 968	Carbon chip 56 kohm 1/16W	RM73B--563JT
R254-264	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	R565,566	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
R266	247 2007 969	Carbon chip 1.2 kohm 1/16W	RM73B--122JT	R568	247 2013 924	Carbon chip 270 kohm 1/16W	RM73B--274JT
R301	247 2007 972	Carbon chip 1.3 kohm 1/16W	RM73B--132JT	R571	247 2012 970	Carbon chip 160 kohm 1/16W	RM73B--164JT
R302	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT	R573	247 2011 942	Carbon chip 47 kohm 1/16W	RM73B--473JT
R303	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	R574	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R304	247 2008 926	Carbon chip 2.2 kohm 1/16W	RM73B--222JT	R575	247 2011 942	Carbon chip 47 kohm 1/16W	RM73B--473JT
R305-307	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT	R576	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R308	247 2010 927	Carbon chip 15 kohm 1/16W	RM73B--153JT	R577	247 2010 998	Carbon chip 30 kohm 1/16W	RM73B--303JT
R309-313	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	R578	247 2011 942	Carbon chip 47 kohm 1/16W	RM73B--473JT
R501	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	R579-585	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R502	247 2006 960	Carbon chip 470 ohm 1/16W	RM73B--471JT	R586	247 2008 968	Carbon chip 3.3 kohm 1/16W	RM73B--332JT
R503	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	R587	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
R504	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT	R589-594	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R505,506	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	R596	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R507	247 2012 925	Carbon chip 100 kohm 1/16W	RM73B--104JT	R604	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R508	247 2011 942	Carbon chip 47 kohm 1/16W	RM73B--473JT	R613-617	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R510	247 2012 925	Carbon chip 100 kohm 1/16W	RM73B--104JT	R618	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
R511,512	247 2011 942	Carbon chip 47 kohm 1/16W	RM73B--473JT	R619,620	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R513,514	247 2005 958	Carbon chip 160 ohm 1/16W	RM73B--161JT	R625,626	247 2012 941	Carbon chip 120 kohm 1/16W	RM73B--124JT
R515,516	247 2005 945	Carbon chip 150 ohm 1/16W	RM73B--151JT	R627	247 2009 954	Carbon chip 7.5 kohm 1/16W	RM73B--752JT
R517	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT	R628	247 2010 927	Carbon chip 15 kohm 1/16W	RM73B--153JT
R518,519	247 2005 958	Carbon chip 160 ohm 1/16W	RM73B--161JT	R629	247 2011 997	Carbon chip 75 kohm 1/16W	RM73B--753JT
R520,521	247 2005 945	Carbon chip 150 ohm 1/16W	RM73B--151JT	R630	247 2010 914	Carbon chip 13 kohm 1/16W	RM73B--133JT
R522	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT	R631	244 2050 904	Metal oxide 22 ohm 1W(NB)	RS14B3A220JNBST(S)
R523	247 2004 988	Carbon chip 82 ohm 1/16W	RM73B--820JT	R632	244 2052 960	Metal oxide 220 ohm 1W(NB)	RS14B3A221JNBST(S)
R524	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT	R633	244 2051 945	Metal oxide 1 ohm 1W(NB)	RS14B3A010JNBST(S)
R525	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	R634	244 2052 960	Metal oxide 220 ohm 1W(NB)	RS14B3A221JNBST(S)
R526,527	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT	R637	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
R528-530	247 2018 916	Carbon chip 1 ohm 1/16W	RM73B--010KT	R638	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R531	247 2010 972	Carbon chip 24 kohm 1/16W	RM73B--243JT	R640	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R532,533	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	R648	247 2011 900	Carbon chip 33 kohm 1/16W	RM73B--333JT
R534	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	R649	247 2005 961	Carbon chip 180 ohm 1/16W	RM73B--181JT
				R650	247 2010 969	Carbon chip 22 kohm 1/16W	RM73B--223JT

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
C133	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101MT	C241,242	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C134	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C243	254 4465 905	Electrolytic 22uF/16V	CE67C1C220MT
C135-141	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C244	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C142	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101MT	C245-253	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C143	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C254	254 4465 905	Electrolytic 22uF/16V	CE67C1C220MT
C144	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT	C255,256	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C145	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C257	257 0504 924	Ceramic chip 27pF/50V	CC73CH1H270JT
C146	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C258	257 0504 940	Ceramic chip 33pF/50V	CC73CH1H330JT
C147	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT	C259-261	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C148	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT				
C149	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C301	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101MT
C150,151	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C302,303	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C152	257 0502 997	Ceramic chip 7pF/50V	CC73CH1H7R0DT	C304	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101MT
C153	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C305,306	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C154	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C307	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101MT
C155	257 0502 997	Ceramic chip 7pF/50V	CC73CH1H7R0DT	C326-329	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C156	254 4465 918	Electrolytic 47uF/16V	CE67C1C470MT				
C159	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101MT	C501	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C160,161	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C503	254 4465 905	Electrolytic 22uF/16V	CE67C1C220MT
C162	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C504-506	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C163	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C507,508	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT
C164	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C509	257 0503 925	Ceramic chip 10pF/50V	CC73CH1H100DT
C165	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT	C510	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C166,167	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C511	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C168	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101MT	C512	257 2010 937	Electrolytic 22uF/10V	CS77B1A220MT
C169	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C513,514	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C170	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT	C515-517	257 0507 976	Ceramic chip 330pF/50V	CC73CH1H331JT
C171	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C519	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C172	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C522	257 0503 925	Ceramic chip 10pF/50V	CC73CH1H100DT
C173	257 0503 967	Ceramic chip 15pF/50V	CC73CH1H150JT	C523	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C174	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C524	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C175	257 0503 941	Ceramic chip 12pF/50V	CC73CH1H120JT	C526	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C176	254 4465 918	Electrolytic 47uF/16V	CE67C1C470MT	C527	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT
C177	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C528,529	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C178,179	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C530,531	257 0510 934	Ceramic chip 4700pF/50V	CK73B1H472KT
C180	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C532	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C181	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101MT	C533	254 4465 905	Electrolytic 22uF/16V	CE67C1C220MT
				C534	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C201	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101MT	C535	254 4465 905	Electrolytic 22uF/16V	CE67C1C220MT
C202-207	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C536,537	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C208	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C538	254 4465 905	Electrolytic 22uF/16V	CE67C1C220MT
C209	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C539,540	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C210	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101MT	C544,545	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C211	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C546	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101MT
C212	257 0503 967	Ceramic chip 15pF/50V	CC73CH1H150JT	C547	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C213	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C548	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT
C214	257 0503 967	Ceramic chip 15pF/50V	CC73CH1H150JT	C549	257 4010 906	Electrolytic 100uF/16V	CE67C1C101MT
C215	254 4465 918	Electrolytic 47uF/16V	CE67C1C470MT	C550	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C216	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT	C552	257 0516 909	Ceramic chip 0.022uF/25V	CK73B1E223KT
C229,230	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C553	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C231-233	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT	C554	257 0506 977	Ceramic chip 120pF/50V	CC73CH1H121JT
C234,235	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C555,556	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
C557	257 0506 977	Ceramic chip 120pF/50V	CC73CH1H121JT	C722-730	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C560	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C731	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C562	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C732-735	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C563	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C736	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101MT
C564	257 0501 927	Ceramic chip 0.015uF/50V	CK73B1H153KT	C737,738	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C565-569	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C741,742	257 0502 942	Ceramic chip 2pF/50V	CC73CH1H2R0CT
C570	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101MT	C743	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C571-573	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C744	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C574	254 4465 905	Electrolytic 22uF/16V	CE67C1C220MT	C745-748	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C575-577	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C750	254 4465 905	Electrolytic 22uF/16V	CE67C1C220MT
C578	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT	C751,752	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C579	257 0510 918	Ceramic chip 3300pF/50V	CK73B1H332KT	C756-758	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C580	257 0501 927	Ceramic chip 0.015uF/50V	CK73B1H153KT	C759	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101MT
C582-589	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C760	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C590,591	257 0507 976	Ceramic chip 330pF/50V	CC73CH1H331JT	C761	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101MT
C592	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101MT	C762,763	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C593	257 0510 950	Ceramic chip 6800pF/50V	CK73B1H682KT	C766,767	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101MT
C594	257 0509 945	Ceramic chip 1200pF/50V	CK73B1H122KT	C768-770	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C595	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C772	257 0507 934	Ceramic chip 220pF/50V	CC73CH1H221JT
C596	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101JT	C773	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT
C597	257 0509 990	Ceramic chip 2200pF/50V	CK73B1H222KT	C774,775	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C598	257 0509 945	Ceramic chip 1200pF/50V	CK73B1H122KT	C776	257 0510 921	Ceramic chip 3900pF/50V	CK73B1H392KT
C599-601	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C777	257 0509 903	Ceramic chip 820pF/50V	CK73B1H821KT
C602	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101MT	C778	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C603-606	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C779	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101MT
C609-618	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C782	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101MT
C619	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT	C783,784	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C620-623	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C785	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101MT
C626-628	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C786	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C629	254 4465 905	Electrolytic 22uF/16V	CE67C1C220MT	C797	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C630-633	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT				
C634	257 4010 906	Electrolytic 100uF/16V	CE67C1C101MT				
C635,636	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT				
C637	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101MT				
C639	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101MT				
C640	257 2010 937	Electrolytic 22uF/10V	CS77B1A220MT				
C641	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT				
C650	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101JT				
C660-662	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT				
C664	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT				
C701	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT				
C702	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT				
C703	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101MT				
C704-710	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT				
C711	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101MT				
C712,713	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT				
C714	254 4533 921	Electrolytic 100uF/6.3V	CE04W0J101MT SMG/RE3				
C715	254 4465 905	Electrolytic 22uF/16V	CE67C1C220MT				
C716-720	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT				
C721	254 4464 906	Electrolytic 100uF/6.3V	CE67C0J101MT				

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Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	
OTHER PARTS GROUP					SEMICONDUCTORS GROUP				
CX031	205 0863 936	3P PH connector base (L)		1	IC201	262 2978 000	IC DXP7001AF		
CX051	205 0863 952	5P PH connector base (L)		1	IC204	263 0809 006	IC NJM7805FA(S)		
CX061	205 1072 946	6P PH connector base		1	IC205	263 1136 901	IC BA033LBSG-TR		
CX131	205 1170 932	13P FFC base (FMNBMTT)		1	IC206	262 3072 905	IC PCM1738-1		
CX141	205 1172 943	14P PH connector base (L)		1	IC207	263 0809 006	IC NJM7805FA(S)		
CX151	205 1149 905	15P FFC base (52207)		1	IC208	263 1136 901	IC BA033LBSG-TR		
CX171	205 1174 909	17P FFC base (FMNSMT)		1	IC209	262 3072 905	IC PCM1738-1		
CX211,212	205 1174 938	21P FFC base (FMNSMT)		2	IC210	263 0809 006	IC NJM7805FA(S)		
CX241	205 1152 905	24P FFC base (FLZ-SM1)		1	IC211	263 1136 901	IC BA033LBSG-TR		
CX272	205 1170 929	27P FFC base (FMNBMTT)		1	IC212	262 3072 905	IC PCM1738-1		
CY301	205 1174 941	30P FFC base (FMNSMT)		1	IC213	262 2515 900	IC SN74LV04APW-EL2		
FB201-210	235 0130 903	Chip emifil (11A121)		10	IC214	262 2669 908	IC SN74LV157APW		
FB211-216	247 2018 903	Carbon chip 0 ohm 1/16W		6	IC215	262 2518 907	IC SN74LV74APW-EL2		
FB217-219	235 0130 903	Chip emifil (11A121)		3	IC216	262 1205 907	IC TC74HCU04AF(TP1)		
FB225	235 0130 903	Chip emifil (11A121)		1	IC219	262 1421 901	IC TC74HCT04AF(TAPE1)		
FB229	235 0130 903	Chip emifil (11A121)		1	IC301-308	263 0896 909	IC NJM2068MD-T1		
FB233,234	235 0130 903	Chip emifil (11A121)		2	IC401-406	263 0896 909	IC NJM2068MD-T1		
FB236-255	235 0130 903	Chip emifil (11A121)		20	IC407,408	263 0609 002	IC NJM2068DDC		
FB501	235 0136 907	Beads inductor	FBMJ1608HS280NT	1	IC506	262 1421 901	IC TC74HCT04AF(TAPE1)		
FB502-504	235 0130 903	Chip emifil (11A121)		3	IC601	262 3093 007	IC ADV7190		
FB505,506	235 0138 905	Beads inductor	FBMH3216MH501NT	2	IC602	262 1348 903	IC TC74HC123AF(TP1)		
FB507-509	235 0136 907	Beads inductor	FBMJ1608HS280NT	3	IC701-707	263 1082 903	IC TK15420MTL		
FB703,704	247 2018 903	Carbon chip 0 ohm 1/16W		2	IC801,802	262 0707 901	IC TC4053BF (TAPE)	for E2	
FB705-708	235 0130 903	Chip emifil (11A121)		4	IC803,804	263 1082 903	IC TK15420MTL	for E2	
FB716-720	235 0130 903	Chip emifil (11A121)		5	IC951	263 0809 006	IC NJM7805FA(S)		
FB721	247 2018 903	Carbon chip 0 ohm 1/16W		1	IC952	263 0554 005	IC NJM7905FA		
FB722,723	235 0130 903	Chip emifil (11A121)		2	IC953	263 0801 004	IC NJM7812FA(S)		
FB724,725	247 2018 903	Carbon chip 0 ohm 1/16W		2	IC954	263 0641 002	IC NJM7912FA		
FB726-733	235 0130 903	Chip emifil (11A121)		8	TR217	273 0384 900	Transistor 2SC2412KT96(S)		
L302	235 0048 901	Chip emifil		1	TR218	269 0083 901	Transistor DTA114EKT96		
L704,705	235 0125 905	Inductor 22uH		2	TR219	269 0119 901	Transistor DTA124EKT96(TAPE)		
L710,711	235 0125 905	Inductor 22uH		2	TR220	269 0082 902	Transistor DTC114EKT96		
W702	203 0515 039	1P SIN connector cord		1	TR226,227	269 0082 902	Transistor DTC114EKT96		
X101	399 0619 906	Crystal 27 MHz		1	TR305-308	273 0460 905	Transistor KTC2875B-RTK		
X103	399 0807 909	Crystal 33.333 MHz		1	TR401-410	273 0460 905	Transistor KTC2875B-RTK		
X201	399 0698 901	Ceramic 25.00 MHz		1	TR411	269 0119 901	Transistor DTA124EKT96(TAPE)		
X202	399 0806 900	Crystal 12.288 MHz		1	TR412	269 0082 902	Transistor DTC114EKT96		
X501	399 0697 902	Ceramic 22.57 MHz		1	TR413-420	273 0460 905	Transistor KTC2875B-RTK		
X502	399 0699 900	Ceramic 50.00 MHz		1	TR421-424	273 0460 905	Transistor KTC2875B-RTK		
X503	399 0698 901	Ceramic 25.00 MHz		1	TR425	269 0119 901	Transistor DTA124EKT96(TAPE)		
X701	399 0706 903	Ceramic 20.00 MHz		1	TR426	269 0082 902	Transistor DTC114EKT96		
	001 0130 041	1P wire		3					
	461 0415 007	Rubber sheet		3					

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
TR601	274 0163 904	Transistor 2SD601A		R254	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
TR602	272 0125 904	Transistor 2SB709A		R255	247 2010 930	Carbon chip 16 kohm 1/16W	RM73B--163JT
TR603	274 0163 904	Transistor 2SD601A		R261	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
TR604	272 0125 904	Transistor 2SB709A		R263	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
TR605	271 0293 901	Transistor 2SA1022-B		R264	247 2010 930	Carbon chip 16 kohm 1/16W	RM73B--163JT
TR606	272 0125 904	Transistor 2SB709A		R270	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
TR607	271 0293 901	Transistor 2SA1022-B		R272	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
TR608,609	272 0125 904	Transistor 2SB709A		R273	247 2010 930	Carbon chip 16 kohm 1/16W	RM73B--163JT
TR633	273 0460 905	Transistor KTC2875B-RTK		R276	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
				R278	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
TR701-705	272 0125 904	Transistor 2SB709A		R279	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470JT
TR706	271 0293 901	Transistor 2SA1022-B		R281	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470JT
TR707,708	272 0125 904	Transistor 2SB709A		R285-287	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
TR709,710	274 0163 904	Transistor 2SD601A		R288,289	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
TR715-717	274 0163 904	Transistor 2SD601A		R290	244 2051 974	Metal oxide 1 kohm 1W(NB)	RS14B3A102JNBST(S)
				R292	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT
TR801,802	269 0048 904	Transistor DTC143EK-T96		R293,294	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470JT
TR807,808	274 0163 904	Transistor 2SD601A	for E2	R295	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
				R297	247 2004 991	Carbon chip 91 ohm 1/16W	RM73B--910JT
D202,203	276 0717 903	Diode 1SS355 TE-17		R298-300	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470JT
D206,207	276 0717 903	Diode 1SS355 TE-17					
				R301	247 2007 930	Carbon chip 910 ohm 1/16W	RM73B--911JT
D601-604	276 0717 903	Diode 1SS355 TE-17		R302	247 2006 999	Carbon chip 620 ohm 1/16W	RM73B--621JT
				R303	247 2007 930	Carbon chip 910 ohm 1/16W	RM73B--911JT
D801,802	276 0717 903	Diode 1SS355 TE-17		R304-316	247 2006 999	Carbon chip 620 ohm 1/16W	RM73B--621JT
				R317-320	247 2008 913	Carbon chip 2 kohm 1/16W	RM73B--202JT
D952	276 0305 001	Diode S4VB20		R321-336	247 2006 999	Carbon chip 620 ohm 1/16W	RM73B--621JT
D953-956	276 0765 900	Diode 1SR139-400		R337,338	247 2008 913	Carbon chip 2 kohm 1/16W	RM73B--202JT
				R342	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470JT
				R345,346	247 2008 913	Carbon chip 2 kohm 1/16W	RM73B--202JT
				R349-352	247 2011 942	Carbon chip 47 kohm 1/16W	RM73B--473JT
				R439,440	241 2420 946	Carbon film 150 ohm 1/4W	RD14B2E151JT(PSNB)
				R441,442	247 2008 942	Carbon chip 2.7 kohm 1/16W	RM73B--272JT
				R443,444	241 2420 946	Carbon film 150 ohm 1/4W	RD14B2E151JT(PSNB)
				R445,446	247 2008 942	Carbon chip 2.7 kohm 1/16W	RM73B--272JT
				R453,454	241 2420 946	Carbon film 150 ohm 1/4W	RD14B2E151JT(PSNB)
				R455,456	247 2008 942	Carbon chip 2.7 kohm 1/16W	RM73B--272JT
				R457,458	241 2420 946	Carbon film 150 ohm 1/4W	RD14B2E151JT(PSNB)
				R459,460	247 2008 942	Carbon chip 2.7 kohm 1/16W	RM73B--272JT
				R461	244 2051 932	Metal oxide 3.3 kohm 1W(NB)	RS14B3A332JNBST(S)
				R462	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
				R465,466	247 2010 998	Carbon chip 30 kohm 1/16W	RM73B--303JT
				R467,468	247 2005 945	Carbon chip 150 ohm 1/16W	RM73B--151JT
				R469,470	247 2008 942	Carbon chip 2.7 kohm 1/16W	RM73B--272JT
				R471,472	247 2005 945	Carbon chip 150 ohm 1/16W	RM73B--151JT
				R473,474	247 2008 942	Carbon chip 2.7 kohm 1/16W	RM73B--272JT
				R475,476	247 2010 998	Carbon chip 30 kohm 1/16W	RM73B--303JT
				R477,478	247 2005 945	Carbon chip 150 ohm 1/16W	RM73B--151JT
				R479,480	247 2008 942	Carbon chip 2.7 kohm 1/16W	RM73B--272JT
				R481,482	247 2005 945	Carbon chip 150 ohm 1/16W	RM73B--151JT
				R483,484	247 2008 942	Carbon chip 2.7 kohm 1/16W	RM73B--272JT
RESISTORS GROUP							
R202	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT				
R203-207	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470JT				
R208-211	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT				
R215	247 2011 942	Carbon chip 47 kohm 1/16W	RM73B--473JT				
R219	247 2013 940	Carbon chip 330 kohm 1/16W	RM73B--334JT				
R221	247 2004 933	Carbon chip 51 ohm 1/16W	RM73B--510JT				
R222	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT				
R223	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT				
R224	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT				
R226	247 2006 902	Carbon chip 330 ohm 1/16W	RM73B--331JT (1608)				
R227,228	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT				
R230-234	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT				
R235	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT				
R238	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT				
R239,240	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470JT				
R241	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT				
R242	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470JT				
R243	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT				
R244	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470JT				
R245,246	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT				
R248	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT				
R252	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT				

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R487,488	247 2008 942	Carbon chip 2.7 kohm 1/16W	RM73B--272JT, for E2	R713	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R491,492	247 2008 942	Carbon chip 2.7 kohm 1/16W	RM73B--272JT, for E2	R716,717	247 2006 960	Carbon chip 470 ohm 1/16W	RM73B--471JT
R493	244 2051 932	Metal oxide 3.3 kohm 1W(NB)	RS14B3A332JNBST(S)	R718,719	247 2007 927	Carbon chip 820 ohm 1/16W	RM73B--821JT
R494	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	R720	247 2005 974	Carbon chip 200 ohm 1/16W	RM73B--201JT
R495-500	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	R723	247 2006 986	Carbon chip 560 ohm 1/16W	RM73B--561JT
R517	247 2011 942	Carbon chip 47 kohm 1/16W	RM73B--473JT	R724	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R518	247 2006 960	Carbon chip 470 ohm 1/16W	RM73B--471JT	R725	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT
R519	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	R726	247 2008 926	Carbon chip 2.2 kohm 1/16W	RM73B--222JT
R520	247 2004 975	Carbon chip 75 ohm 1/16W	RM73B--750JT	R727	247 2006 986	Carbon chip 560 ohm 1/16W	RM73B--561JT
R522	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	R728	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
				R729	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT
R601,602	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	R730,731	247 2008 926	Carbon chip 2.2 kohm 1/16W	RM73B--222JT
R603,604	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B--472JT (1608)	R732	247 2006 986	Carbon chip 560 ohm 1/16W	RM73B--561JT
R606,607	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	R733	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R608,609	247 2003 989	Carbon chip 33 ohm 1/16W	RM73B--330JT	R734	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT
R610,611	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B--472JT (1608)	R735	247 2006 986	Carbon chip 560 ohm 1/16W	RM73B--561JT
R612-615	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	R736	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R621	247 2007 969	Carbon chip 1.2 kohm 1/16W	RM73B--122JT	R737	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT
R623	247 2005 987	Carbon chip 220 ohm 1/16W	RM73B--221JT	R738	247 2008 926	Carbon chip 2.2 kohm 1/16W	RM73B--222JT
R624	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	R739	247 2006 986	Carbon chip 560 ohm 1/16W	RM73B--561JT
R627,628	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	R740	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R630	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT	R741	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT
R632	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	R742	247 2008 926	Carbon chip 2.2 kohm 1/16W	RM73B--222JT
R633,634	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	R743	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R635-637	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B--472JT (1608)	R746	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R638,639	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	R747,748	247 2008 926	Carbon chip 2.2 kohm 1/16W	RM73B--222JT
R640-642	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B--472JT (1608)	R749	247 2009 925	Carbon chip 5.6 kohm 1/16W	RM73B--562JT
R643	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT	R750	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
R644	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	R751,752	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R645	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	R753	247 2005 974	Carbon chip 200 ohm 1/16W	RM73B--201JT
R646	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	R755	247 2014 965	Carbon chip 1 Mohm 1/16W	RM73B--105JT
R647	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	R756	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R648	247 2008 913	Carbon chip 2 kohm 1/16W	RM73B--202JT	R757,758	247 2006 960	Carbon chip 470 ohm 1/16W	RM73B--471JT
R649	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	R760	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R650	247 2005 987	Carbon chip 220 ohm 1/16W	RM73B--221JT	R761	247 2014 965	Carbon chip 1 Mohm 1/16W	RM73B--105JT
R651-655	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT	R762,763	247 2006 960	Carbon chip 470 ohm 1/16W	RM73B--471JT
R659,660	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT	R764	247 2004 962	Carbon chip 68 ohm 1/16W	RM73B--680JT
R661-665	247 2003 989	Carbon chip 33 ohm 1/16W	RM73B--103JT	R765,766	247 2006 960	Carbon chip 470 ohm 1/16W	RM73B--471JT
R666-670	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT	R782	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
				R785,786	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R701	247 2006 986	Carbon chip 560 ohm 1/16W	RM73B--561JT	R787,788	247 2014 965	Carbon chip 1 Mohm 1/16W	RM73B--105JT
R702	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	R789	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R703	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT	R790	247 2006 960	Carbon chip 470 ohm 1/16W	RM73B--471JT
R704	247 2008 926	Carbon chip 2.2 kohm 1/16W	RM73B--222JT	R791-793	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R705	247 2006 986	Carbon chip 560 ohm 1/16W	RM73B--561JT	R794,795	247 2014 965	Carbon chip 1 Mohm 1/16W	RM73B--105JT
R706	247 2008 926	Carbon chip 2.2 kohm 1/16W	RM73B--222JT	R796	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT
R707	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT	R797	247 2006 960	Carbon chip 470 ohm 1/16W	RM73B--471JT
R708	247 2008 926	Carbon chip 2.2 kohm 1/16W	RM73B--222JT	R798,799	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R709	247 2006 986	Carbon chip 560 ohm 1/16W	RM73B--561JT				
R710	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	R803,804	247 2014 965	Carbon chip 1 Mohm 1/16W	RM73B--105JT, for E2
R711	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT	R806	247 2014 965	Carbon chip 1 Mohm 1/16W	RM73B--105JT, for E2
R712	247 2008 926	Carbon chip 2.2 kohm 1/16W	RM73B--222JT	R808	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT, for E2

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R811,812	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	C248,249	254 4313 921	Electrolytic 22uF/50V	CE04W1H220MT(ASF)
R813,814	247 2014 965	Carbon chip 1 Mohm 1/16W	RM73B--105JT	C250	257 3006 924	Metalized chip 0.01uF/16V	CF73=1C103JT(ECHUB5)
R815	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	C251	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103KT (1608)
R816-819	247 2006 960	Carbon chip 470 ohm 1/16W	RM73B--471JT	C253,254	254 4313 798	Electrolytic 220uF/50V	CE04W1H221MC(ASF)
R820-825	247 2004 975	Carbon chip 75 ohm 1/16W	RM73B--750JT	C256	254 4313 934	Electrolytic 47uF/50V	CE04W1H470MT(ASF)
R826-839	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	C257	254 4313 921	Electrolytic 22uF/50V	CE04W1H220MT(ASF)
R840-842	247 2004 975	Carbon chip 75 ohm 1/16W	RM73B--750JT	C258	257 3012 921	Metalized chip 0.01uF/50V	CF73=1H103JT(ECHUB5)
R843-849	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	C259,260	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103KT (1608)
R867	247 2014 965	Carbon chip 1 Mohm 1/16W	RM73B--105JT, for E2	C261,262	254 4313 921	Electrolytic 22uF/50V	CE04W1H220MT(ASF)
R868,869	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT, for E2	C263	257 3006 924	Metalized chip 0.01uF/16V	CF73=1C103JT(ECHUB5)
R870	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT, for E2	C264	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103KT (1608)
R871-874	247 2006 960	Carbon chip 470 ohm 1/16W	RM73B--471JT, for E2	C266,267	254 4313 798	Electrolytic 220uF/50V	CE04W1H221MC(ASF)
R876,877	247 2006 960	Carbon chip 470 ohm 1/16W	RM73B--471JT, for E2	C269	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
R878,879	247 2007 969	Carbon chip 1.2 kohm 1/16W	RM73B--122JT	C270	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
R881,882	247 2005 974	Carbon chip 200 ohm 1/16W	RM73B--201JT, for E2	C271	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
				C272	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
R951	244 2051 974	Metal oxide 1 kohm 1W(NB)	RS14B3A102JNBST(S)	C273	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
R952	244 2043 940	Metal oxide 2.2 kohm 1W(NB)	RS14B3A222JNBST(S)	C274	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
				C275	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
RA601-604	247 9002 909	Chip network 33 ohm 1/16W	MNR14=330JE0AB	C276	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
				C277,278	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT
VR601	211 6138 903	Semi fixed resistor 1 kohm	V03PB102MT(RH03ADC)	C279,280	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103KT (1608)
VR602-604	211 6148 906	Semi fixed resistor 470 ohm	V03PB471MT(RH03ADCS)	C281	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT
				C282	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103KT (1608)
				C283	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT
				C293	254 4319 750	Electrolytic 470uF/25V	CE04W1E471MC(ASF)
CAPACITORS GROUP							
C200	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C301	255 4232 940	Mylar film 1800pF/100V	CQ93P2A182JT(NH)
C201,202	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C302	255 4237 903	Mylar film 2700pF/100V	CQ93P2A272JT(NH)
C203	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT	C303	255 4232 940	Mylar film 1800pF/100V	CQ93P2A182JT(NH)
C204	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103KT (1608)	C304	255 4237 903	Mylar film 2700pF/100V	CQ93P2A272JT(NH)
C205	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C305,306	255 4232 953	Mylar film 4700pF/100V	CQ93P2A472JT(NH)
C206,207	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103KT (1608)	C307-310	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT
C208	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C311-314	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C209	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C315-318	254 4313 950	Electrolytic 100uF/50V	CE04W1H101MT(ASF)
C210	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C319-322	255 4237 903	Mylar film 2700pF/100V	CQ93P2A272JT(NH)
C211	253 4536 925	Ceramic 12pF/50V	CC45SL1H120JT(DD-3)	C323,324	255 4232 953	Mylar film 4700pF/100V	CQ93P2A472JT(NH)
C212-214	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103KT (1608)	C325-328	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT
C215	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C329-332	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C216-218	254 4313 950	Electrolytic 100uF/50V	CE04W1H101MT(ASF)	C333-336	254 4313 950	Electrolytic 100uF/50V	CE04W1H101MT(ASF)
C219,220	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C341-344	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C221,222	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103KT (1608)	C349-352	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C230	254 4313 934	Electrolytic 47uF/50V	CE04W1H470MT(ASF)	C353-356	254 4598 908	Electrolytic 22uF/50V	CE04W1H220MTBP(ASF)
C231	254 4313 921	Electrolytic 22uF/50V	CE04W1H220MT(ASF)	C357-360	257 0503 925	Ceramic chip 10pF/50V	CC73CH1H100DT
C232	257 3012 921	Metalized chip 0.01uF/50V	CF73=1H103JT(ECHUB5)				
C233,234	255 4235 934	Mylar film 0.01uF/100V	CQ93P2A103JT(NH)	C407-410	255 4232 940	Mylar film 1800pF/100V	CQ93P2A182JT(NH)
C235,236	254 4313 921	Electrolytic 22uF/50V	CE04W1H220MT(ASF)	C411-414	255 4235 918	Mylar film 100pF/100V	CQ93P2A101JT(NH)
C237	255 4235 934	Mylar film 0.01uF/100V	CQ93P2A103JT(NH)	C415-418	257 3011 948	Metalized chip 2200pF/50V	CF73=1H222JT(ECHUB5)
C238	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103KT (1608)	C419,420	255 4237 945	Mylar film 1200pF/100V	CQ93P2A122JT(NH)
C240,241	254 4313 798	Electrolytic 220uF/50V	CE04W1H221MC(ASF)	C421,422	254 4598 908	Electrolytic 22uF/50V	CE04W1H220MTBP(ASF)
C243	254 4313 934	Electrolytic 47uF/50V	CE04W1H470MT(ASF)	C423,424	257 0503 925	Ceramic chip 10pF/50V	CC73CH1H100DT
C244	254 4313 921	Electrolytic 22uF/50V	CE04W1H220MT(ASF)	C425,426	254 4347 751	Electrolytic 2.2uF/50V	CE04W1H2R2MC(ARSA)
C245	257 3012 921	Metalized chip 0.01uF/50V	CF73=1H103JT(ECHUB5)				
C246,247	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103KT (1608)				

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
C427,428	254 4356 713	Electrolytic 100uF/50V	CE04W1H101MC(ARS)	C711	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C431,432	255 4235 934	Mylar film 0.01uF/100V	CQ93P2A103JT(NH)	C714	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C433,434	254 4347 751	Electrolytic 2.2uF/50V	CE04W1H2R2MC(ARSA)	C715	254 4533 934	Electrolytic 220uF/6.3V	CE04W0J221MT SMG/RE3
C435,436	254 4356 713	Electrolytic 100uF/50V	CE04W1H101MC(ARS)	C717	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C437,438	255 4235 989	Mylar film 470pF/100V	CQ93P2A471JT(NH)	C720	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C439,440	254 4347 751	Electrolytic 2.2uF/50V	CE04W1H2R2MC(ARSA)	C723	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C441,442	254 4356 713	Electrolytic 100uF/50V	CE04W1H101MC(ARS)	C724	254 4533 934	Electrolytic 220uF/6.3V	CE04W0J221MT SMG/RE3
C445,446	255 4235 934	Mylar film 0.01uF/100V	CQ93P2A103JT(NH)	C727	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C447,448	254 4347 751	Electrolytic 2.2uF/50V	CE04W1H2R2MC(ARSA)	C730	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C449,450	254 4356 713	Electrolytic 100uF/50V	CE04W1H101MC(ARS)	C731	254 4533 934	Electrolytic 220uF/6.3V	CE04W0J221MT SMG/RE3
C451,452	255 4235 989	Mylar film 470pF/100V	CQ93P2A471JT(NH)	C732	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C467-470	254 4313 950	Electrolytic 100uF/50V	CE04W1H101MT(ASF)	C735	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C473,474	254 4313 950	Electrolytic 100uF/50V	CE04W1H101MT(ASF)	C738	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C475,476	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C739	254 4533 934	Electrolytic 220uF/6.3V	CE04W0J221MT SMG/RE3
C477,478	254 4313 950	Electrolytic 100uF/50V	CE04W1H101MT(ASF)	C741	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C479-481	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C742	254 4538 939	Electrolytic 47uF/16V	CE04W1C470MT SMG/RE3
C482	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103KT (1608)	C743	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C483,484	257 0508 933	Ceramic chip 560pF/50V	CC73CH1H561JT, for E2	C744	254 4538 939	Electrolytic 47uF/16V	CE04W1C470MT SMG/RE3
C485,486	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C745	254 4533 921	Electrolytic 100uF/6.3V	CE04W0J101MT SMG/RE3
C524	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C747	257 0504 940	Ceramic chip 33pF/50V	CC73CH1H330JT
C525	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C748	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C526	254 4525 900	Electrolytic 33uF/50V	CE04W1H330MT SMG/RE3	C749	254 4538 913	Electrolytic 22uF/16V	CE04W1C220MT SMG/RE3
C527	254 4524 985	Electrolytic 10uF/50V	CE04W1H100MT SMG/RE3	C750	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C528	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103KT (1608)	C751	254 4538 913	Electrolytic 22uF/16V	CE04W1C220MT SMG/RE3
C533	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C752	254 4533 921	Electrolytic 100uF/6.3V	CE04W0J101MT SMG/RE3
C534	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C753	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C535	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C754	254 4538 913	Electrolytic 22uF/16V	CE04W1C220MT SMG/RE3
C536	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C755	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C537	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C756	254 4538 913	Electrolytic 22uF/16V	CE04W1C220MT SMG/RE3
C538	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C757	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C601	254 4533 934	Electrolytic 220uF/6.3V	CE04W0J221MT SMG/RE3	C758	254 4538 913	Electrolytic 22uF/16V	CE04W1C220MT SMG/RE3
C602	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C759	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C605-608	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C760	254 4538 913	Electrolytic 22uF/16V	CE04W1C220MT SMG/RE3
C609	254 4533 934	Electrolytic 220uF/6.3V	CE04W0J221MT SMG/RE3	C761,762	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103KT (1608)
C610-614	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C764	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C615	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT	C765	254 4538 939	Electrolytic 47uF/16V	CE04W1C470MT SMG/RE3
C616-618	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C766	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C619-622	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C767	254 4538 939	Electrolytic 47uF/16V	CE04W1C470MT SMG/RE3
C623,624	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C768	254 4533 921	Electrolytic 100uF/6.3V	CE04W0J101MT SMG/RE3
C625-629	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C769	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C630	254 4533 934	Electrolytic 220uF/6.3V	CE04W0J221MT SMG/RE3	C770	254 4538 913	Electrolytic 22uF/16V	CE04W1C220MT SMG/RE3
C631	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT	C771,772	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C632	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C773	254 4538 913	Electrolytic 22uF/16V	CE04W1C220MT SMG/RE3
C701	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C774	254 4538 900	Electrolytic 10uF/16V	CE04W1C100MT SMG/RE3
C704	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C775	254 4538 913	Electrolytic 22uF/16V	CE04W1C220MT SMG/RE3
C705	254 4533 934	Electrolytic 220uF/6.3V	CE04W0J221MT SMG/RE3	C776	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C706	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C777	254 4538 913	Electrolytic 22uF/16V	CE04W1C220MT SMG/RE3
C709	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C778	254 4538 900	Electrolytic 10uF/16V	CE04W1C100MT SMG/RE3
C710	254 4533 934	Electrolytic 220uF/6.3V	CE04W0J221MT SMG/RE3	C781-786	257 0504 982	Ceramic chip 47pF/50V	CC73CH1H470JT
				C791-793	257 0504 982	Ceramic chip 47pF/50V	CC73CH1H470JT
				C802-805	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT, for E2

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks	Q'ty
C807,808	254 4538 900	Electrolytic 10uF/16V	CE04W1C100MT SMG/RE3 for E2	OTHER PARTS GROUP				
C809	254 4538 939	Electrolytic 47uF/16V	CE04W1C470MT SMG/RE3 for E2	AS909,910	417 0476 010	Radiator		2
C810	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT, for E2	CX032	205 0653 036	3P VH connector base		1
C811	254 4538 913	Electrolytic 22uF/16V	CE04W1C220MT SMG/RE3 for E2	CX036	205 0343 032	3P connector base (KR-PH)		1
C812,813	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT, for E2	CX062	205 0653 065	6P VH connector base		1
C814	254 4538 939	Electrolytic 47uF/16V	CE04W1C470MT SMG/RE3 for E2	CX102	205 0375 000	10P connector base (KR-PH)	for E2	1
C815	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT, for E2	CX301	205 0892 075	30P FFC base (P=1)		1
C816	254 4538 913	Electrolytic 22uF/16V	CE04W1C220MT SMG/RE3 for E2	CY032	205 0653 036	3P VH connector base		1
C820	257 0503 925	Ceramic chip 10pF/50V	CC73CH1H100DT	CY052	205 0343 058	5P connector base (KR-PH)	for E2	1
C823	257 0503 925	Ceramic chip 10pF/50V	CC73CH1H100DT	CY131	205 0892 088	13P FFC base		1
C825	254 4533 950	Electrolytic 470uF/6.3V	CE04W0J471MT SMG/RE3 for E2	CY272	205 1100 083	27P FFC base (P=1)		1
C956	255 4235 934	Mylar film 0.01uF/100V	CQ93P2A103JT(NH)	FB201	235 0130 903	Chip emifil (11A121)		1
C957	254 4599 703	Electrolytic 2200uF/16V	CE04W1C222MC (KMF)	FB202-207	247 2018 903	Carbon chip 0 ohm 1/16W		6
C960	254 4599 703	Electrolytic 2200uF/16V	CE04W1C222MC (KMF)	FB208,209	235 0130 903	Chip emifil (11A121)		2
C961	255 4235 934	Mylar film 0.01uF/100V	CQ93P2A103JT(NH)	FB406,407	235 0130 903	Chip emifil (11A121)		2
C963	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT	FB511,512	235 0130 903	Chip emifil (11A121)		2
C965	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT	JK401	204 8632 014	8P pin jack (AU)		1
C966	254 4368 947	Electrolytic 220uF/25V	CE04W1E221MT(ASF)	JK503	269 0187 001	Optical connector GP1FA551TZ		1
C968	254 4368 947	Electrolytic 220uF/25V	CE04W1E221MT(ASF)	JK505	204 8618 009	1P pin jack (AU)		1
C969,970	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	JK701	204 8631 002	2P pin jack (AU)		1
C972,973	254 4543 704	Electrolytic 3300uF/50V	CE04W1H332MC(ARS)	JK702	204 8620 000	3P pin jack (AU)		1
C976,977	254 4356 742	Electrolytic 470uF/50V	CE04W1H471(ARS)	JK704	204 8633 000	2P S-terminal (AU)		1
C980	255 4235 934	Mylar film 0.01uF/100V	CQ93P2A103JT(NH)	L601,602	235 0070 911	Inductor 22uH		2
C983	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	L603	235 0125 905	Inductor 22uH		1
C984	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103KT (1608)	L604	235 0070 911	Inductor 22uH		1
C985	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	L701-706	235 0070 911	Inductor 22uH		6
C986	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT	L707	235 0060 934	Inductor 47uH		1
C987	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	LF701-703	261 0159 909	Filter ELB4B584		3
C989,990	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	LF705	261 0159 909	Filter ELB4B584		1
C991	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT	LF706	261 0160 901	Filter ELB4C572		1
C992	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	LF804	261 0160 901	Filter ELB4C572		1
C993	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT	RL701,702	214 0211 906	Relay (EB2-5NU-L1)		2
C994	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	T501	231 8063 009	Pulse trans.		1
					001 0112 043	Vinyl wire		1
					001 0130 041	1P wire	for E2	1
					412 2160 015	Common plate		2
					461 0415 007	Rubber sheet		17
					471 3303 016	Screw 3x6 CBS-Z		2

GU-3439 POWER/DISPLAY P.W.B. UNIT

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP				RESISTORS GROUP			
IC101	262 3048 007	IC ML9207-01GP		R101	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
IC103	499 0303 004	Remote sensor GP1UM271XK		R102	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
IC510	262 2580 906	IC CXA1511M		R103	247 2005 945	Carbon chip 150 ohm 1/16W	RM73B--151JT
IC511	262 2114 903	IC UPD4721GS-GJG		R104	247 2005 961	Carbon chip 180 ohm 1/16W	RM73B--181JT
IC901	265 0112 003	IC STR-F6674		R105	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
IC902	262 3047 008	IC PC123 Y-22		R106	247 2005 945	Carbon chip 150 ohm 1/16W	RM73B--151JT
IC903	263 1113 005	IC SE005N		R107	247 2005 961	Carbon chip 180 ohm 1/16W	RM73B--181JT
IC904	263 1048 002	IC BA033T		R108	247 2006 915	Carbon chip 270 ohm 1/16W	RM73B--271JT
IC905	263 1114 004	IC PQ1CG21H2FZ		R109	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
TR101	269 0171 907	Transistor IMD3A-T108		R110	247 2009 967	Carbon chip 8.2 kohm 1/16W	RM73B--822JT
TR102,103	269 0082 902	Transistor DTC114EKT96		R116	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
TR501	269 0171 907	Transistor IMD3A-T108		R118	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
TR902	269 0082 902	Transistor DTC114EKT96		R120-122	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
TR903	272 0093 010	Transistor 2SB1274 (R/S)		R175	244 2051 929	Metal oxide 820 ohm 1W(NB)	RM73B--102JT
TR904	273 0303 910	Transistor 2SC1740S(S)-T		R176	244 2052 915	Metal oxide 1.8 kohm 1W(NB)	RM73B--470JT
TR905	269 0083 901	Transistor DTA114EKT96		R177	244 2055 996	Metal oxide 1.2 kohm 1W(NB)	RS14B3A122JNBST(S)
TR906	269 0082 902	Transistor DTC114EKT96		R178	247 2005 961	Carbon chip 180 ohm 1/16W	RM73B--181JT
TR907	275 0106 906	Transistor HAT2053M(TAPE)		R179	247 2005 945	Carbon chip 150 ohm 1/16W	RM73B--151JT
TR908,909	274 0036 905	Transistor 2SD468(C)TF		R180	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
TR910,911	269 0083 901	Transistor DTA114EKT96		R181	247 2008 984	Carbon chip 3.9 kohm 1/16W	RM73B--392JT
TR912	274 0036 905	Transistor 2SD468(C)TF		R529	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
D102-104	276 0717 903	Diode 1SS355 TE-17		R534	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
D901-904	276 0729 904	Diode EM01AT (V1)		R542	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
D905	276 0730 906	Diode AG01ZT (V1)		R544	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
D906	276 0724 909	Diode SARS01T (V1)		R545	247 2006 960	Carbon chip 470 ohm 1/16W	RM73B--471JT
D907-909	276 0730 906	Diode AG01ZT (V1)		R546	247 2012 996	Carbon chip 200 kohm 1/16W	RM73B--204JT
D910	276 0725 704	Diode RK39 LF-C4		R547	244 2052 928	Metal oxide 47 ohm 1W(NB)	RS14B3A470JNBST(S)
D911	276 0726 703	Diode RJ43 LF015-305		R549-551	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
D912	276 0745 904	Diode RB411DT146		R552	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
D913,914	276 0727 906	Diode AL01ZT (V1)		R553	247 2011 926	Carbon chip 39 kohm 1/16W	RM73B--393JT
D916	276 0717 903	Diode 1SS355 TE-17		R554	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
D917	276 0737 909	Diode RB161L-40 (TAPE)		R555-557	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
D922,923	276 0717 903	Diode 1SS355 TE-17		R559	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
ZD901	276 0457 904	Zener diode HZS4C-1TD		R561	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
LD101	393 9623 908	LED SEL2810A(TP7)	Amber	R563	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
LD102	393 9576 903	LED SELU1E10CXM-002	Blue	R572-574	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
LD103	393 9504 904	LED SEL1210S(TP7)	Red	R578	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT
TH901	279 0044 002	Thermistor NTH11D8R0LA		R580	247 2011 942	Carbon chip 47 kohm 1/16W	RM73B--473JT, for E3
				R581	247 2011 942	Carbon chip 47 kohm 1/16W	RM73B--473JT, for E1
				R582,583	247 2011 942	Carbon chip 47 kohm 1/16W	RM73B--473JT, for E2,E1
				R584	247 2011 942	Carbon chip 47 kohm 1/16W	RM73B--473JT, for E2,E1
				R585	247 2011 942	Carbon chip 47 kohm 1/16W	RM73B--473JT, for E3,E2
				R586,587	247 2011 942	Carbon chip 47 kohm 1/16W	RM73B--473JT, for E3
				R901	244 2675 716	Metal oxide 68 kohm 2W(NB)	RS14B3D683JNBF (ERG)
				R902	244 2671 956	Metal oxide 0.47 ohm 2W(NB)	RS14B3DR47JNBST(S)
				R905	244 2675 729	Metal oxide 220 kohm 2W(NB)	RS14B3D224JNBF (ERG)
				R906	244 2675 703	Metal oxide 47 ohm 2W(NB)	RS14B3D470JNBF (ERG)
				R913	244 2043 953	Metal oxide 470 ohm 1W(NB)	RS14B3A471JNBST(S)
				R920	244 2051 974	Metal oxide 1 kohm 1W(NB)	RS14B3A102JNBST(S)

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R932	244 2052 999	Metal oxide 10 kohm 1W(NB)	RS14B3A103JNBST(S)	C905	254 4589 700	Electrolytic 47uF/400V	CE04W2G470MC (KMG) for E2,E1
R937	244 2064 929	Metal oxide 3.3 ohm 1W(NB)	RS14B3A3R3JNBST(S)	C905	254 4589 713	Electrolytic 100uF/400V	CE04W2G101MC(KMG) for E3
R991	247 2006 902	Carbon chip 330 ohm 1/16W	RM73B--331JT (1608)	C906	253 4546 711	Ceramic 220pF/2000V	CC45SL3D221JC
R992	247 2018 916	Carbon chip 1 ohm 1/16W	RM73B--010KT	C907	253 4452 902	Ceramic 470pF/50V	CC45SL1H471JT
CAPACITORS GROUP				C908	253 9030 963	Ceramic 0.01uF/25V	CK45-1E103KT
C101,102	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C909	254 4522 945	Electrolytic 47uF/35V	CE04W1V470MT SMG/RE3
C106,107	257 0502 971	Ceramic chip 5pF/50V	CC73CH1H5R0CT	▲ C910	253 8029 700	Ceramic 2200pF/250V(AC)	CK45F2EAC222MC (KX)
C108,109	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C911	253 8028 701	Ceramic 2200pF/1000V	CK45R3A222KC
C110	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C912	255 1249 923	Mylar film 680pF/50V	CQ93M1H681JT (B)
C111	254 4299 964	Electrolytic 47uF/16V	CE04W1C470MT(SRE)	C913	254 4356 713	Electrolytic 100uF/50V	CE04W1H101MC(ARS)
C113	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C914	254 4592 700	Electrolytic 2200uF/6.3V	CE04W0J222MC K20(LXV)
C114	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT	C915	254 4593 709	Electrolytic 1200uF/16V	CE04W1C122MC K20(LXJ)
C115	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C916	254 4591 905	Electrolytic 100uF/50V	CE04W1H101MT (KMF)
C116,117	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT	C917	254 4593 709	Electrolytic 1200uF/16V	CE04W1C122MC K20(LXJ)
C118	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C918	254 4591 905	Electrolytic 100uF/50V	CE04W1H101MT (KMF)
C119	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C919	256 1058 971	Metalized 0.1uF/50V	CF93A1H104JT (JL)
C120	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C920	254 4368 947	Electrolytic 220uF/25V	CE04W1E221MT(ASF)
▲ C121	253 8022 707	Ceramic 0.01uF/250V(AC)	CK45F2EAC103MC	C921	254 4524 985	Electrolytic 10uF/50V	CE04W1H100MT SMG/RE3
C122	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	▲ C922	253 8022 707	Ceramic 0.01uF/250V(AC)	CK45F2EAC103MC
C501	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT	C923	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C502	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C924	254 4538 942	Electrolytic 100uF/16V	CE04W1C101MT SMG/RE3
C503	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C925	254 4522 945	Electrolytic 47uF/35V	CE04W1V470MT SMG/RE3
C504	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C926	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C505	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C927	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C507	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT	C928	254 4585 908	Electrolytic 470uF/6.3V	CE04W0J471MT(LXV)
C508	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C929	254 4533 921	Electrolytic 100uF/6.3V	CE04W0J101MT SMG/RE3
C509	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	C932,933	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C510	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C935	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C511	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT	C936	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C566	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101JT	C938	257 0512 903	Ceramic chip 0.1uF/25V	RM73B--103JT
C567	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103KT (1608)	C941	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C568	254 4538 939	Electrolytic 47uF/16V	CE04W1C470MT SMG/RE3	C942	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C569	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103KT (1608)	C945,946	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C570	254 4524 943	Electrolytic 1uF/50V	CE04W1H1010MT SMG/RE3	C947	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C571	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103KT (1608)	C948	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
C573	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103KT (1608)	C949	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
C574	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	C950	254 4313 950	Electrolytic 100uF/50V	CE04W1H101MT(ASF)
C575	257 0501 901	Ceramic chip 0.01uF/50V	CK73B1H103KT (1608)	C964	254 4313 950	Electrolytic 100uF/50V	CE04W1H101MT(ASF)
C576-578	254 4524 901	Electrolytic 0.1uF/50V	CE04W1H0R1MT SMG/RE3				
C579	254 4533 921	Electrolytic 100uF/6.3V	CE04W0J101MT SMG/RE3				
C580	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT				
C581,582	254 4524 901	Electrolytic 0.1uF/50V	CE04W1H0R1MT SMG/RE3				
C585,586	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101JT				
C588	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101JT				
C589,590	257 0511 917	Ceramic chip 0.022uF/50V	CK73F1H223ZT				
C591	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT				
C592-594	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT				
C901	256 8038 017	Metalized 0.22uF/250V	CF99--2EAC224M				
C902	256 8038 004	Metalized 0.1uF/250V	CF99--2EAC104M				

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
OTHER PARTS GROUP					X101	399 0151 008	Crystal 4.332 MHz		1
AS902	417 0610 009	Heat sink		1		203 5299 004	3P PH connector cord	for E2	1
CW041	203 6589 001	4P PH-SAN connector cord		1		415 0299 000	Condenser cover	for C121	1
CX024	205 0581 001	2P VH connector base		1		417 0631 004	Heat sink		1
CX025	205 0581 056	2P VH connector base		1		417 0632 003	Heat sink		1
CX026	205 1093 006	2P VH connector base		1		461 1125 118	FL spacer		4
CX035	205 0355 033	3P KR connector base (L)		1		471 3305 027	Screw 3x10 CBS-B		1
CX041	205 0343 045	4P connector base (KR-PH)		1		473 7005 002	Screw 3x10 CBTS(S)-Z		1
CY025	205 0581 056	2P VH connector base		1					
CY035	205 0355 033	3P KR connector base (L)		1					
CY036	205 0343 032	3P connector base (KR-PH)		1					
CY141	205 0375 042	14P connector base (KR-PH)		1					
CY171	205 1006 080	17P FFC base (P=1)		1					
CY211,212	205 1006 022	21P FFC base (P=1)		2					
△ F951	206 1087 002	Fuse ET0.63A	for E3	1					
	206 1015 058	Fuse 1.6A	for E2,E1	1					
FB503-507	235 0130 903	Chip emifil (11A121)		5					
FB519	235 0130 903	Chip emifil (11A121)		1					
FB523-530	235 0130 903	Chip emifil (11A121)		8					
FB753-756	235 0130 903	Chip emifil (11A121)		4					
FF901	202 0040 909	Fuse clip		1					
FH901	202 0040 909	Fuse clip		1					
FL101	393 8060 009	FLT (17-ST-04GNK)		1					
JK507,508	204 8612 005	Mini jack		2					
JK509	205 1153 001	9P S SUB connector		1					
L901	235 0141 002	Line filter (PLA10A)		1					
L902	235 0142 917	Inductor 4.7uH		1					
L903	239 8019 002	Line filter coil		1					
L904	235 0140 906	Inductor 100uH		1					
L907	235 0142 917	Inductor 4.7uH		1					
L909	235 0142 917	Inductor 4.7uH		1					
△ RL901	214 0202 009	Relay DG1U TV-8		1					
S101-106	212 5604 910	Tact switch		6					
S107	212 0389 007	Rotary switch		1					
S108,109	212 5604 910	Tact switch		2					
△ S120	212 1030 009	Power switch (TV-5)		1					
ST901-903	205 0452 017	Style pin		3					
△ T901	233 6403 007	Switching trans. (WIDE)		1					

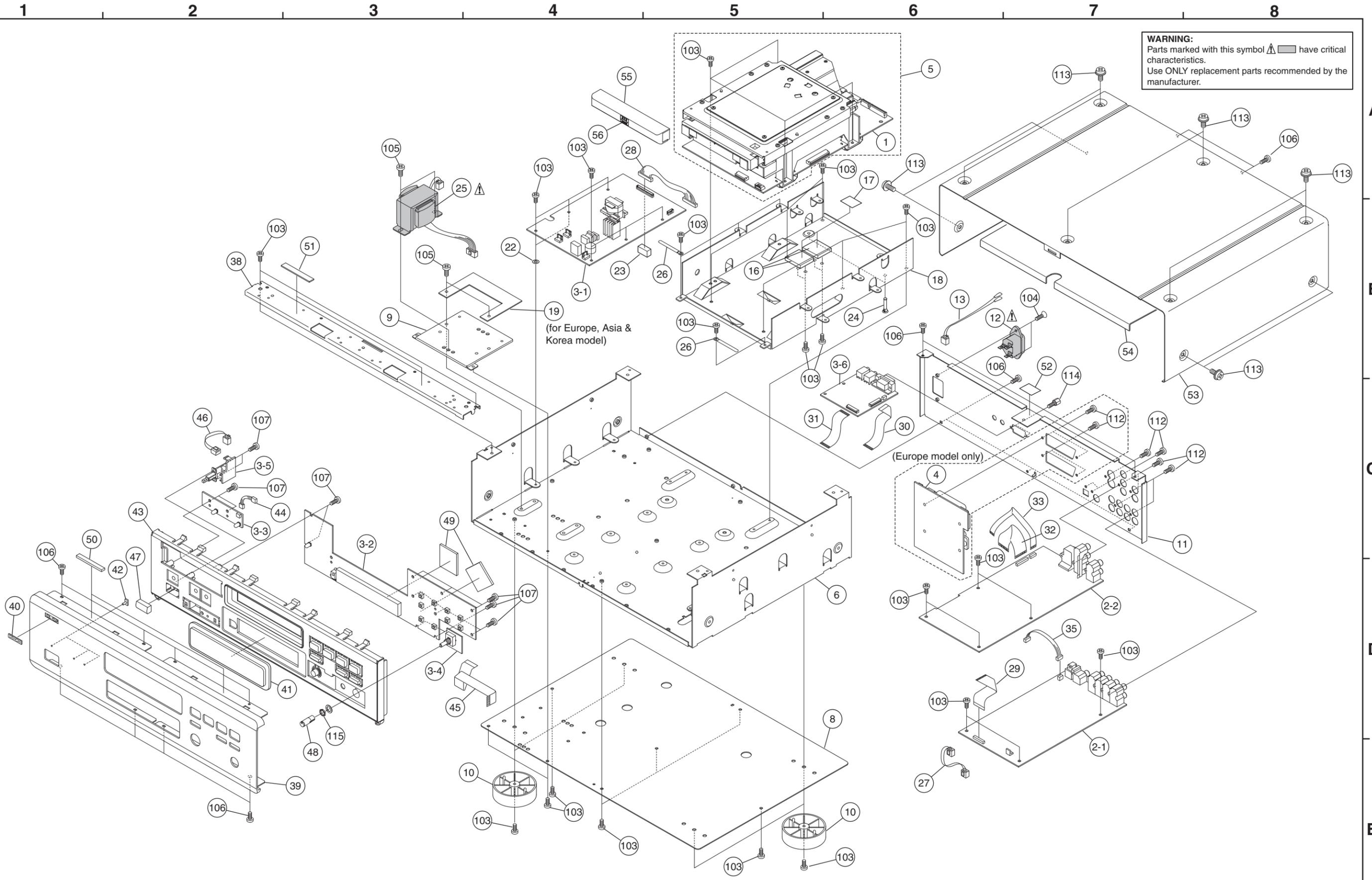
GU-3442 SCART P.W.B. UNIT

Note: Addition for Europe model

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP				CAPACITORS GROUP			
IC851-854	262 0707 901	IC TC4053BF (TAPE)		R853	247 2006 960	Carbon chip 470 ohm 1/16W	RM73B--471JT
IC855	262 1793 901	IC TC4W53F		R854,855	247 2005 945	Carbon chip 150 ohm 1/16W	RM73B--151JT
IC856	262 2534 907	IC BA7660FS-E2		R856	247 2005 958	Carbon chip 160 ohm 1/16W	RM73B--161JT
IC857	263 1115 906	IC NJM2267M (T1)		R857,858	247 2004 975	Carbon chip 75 ohm 1/16W	RM73B--750JT
IC858	262 0707 901	IC TC4053BF (TAPE)		R859,860	247 2006 902	Carbon chip 330 ohm 1/16W	RM73B--331JT (1608)
TR851,852	269 0054 901	Transistor DTC144EKT96		R861	247 2005 929	Carbon chip 120 ohm 1/16W	RM73B--121JT
TR853	269 0085 909	Transistor DTC144TKT96		R862	247 2005 945	Carbon chip 150 ohm 1/16W	RM73B--151JT
TR854,855	269 0054 901	Transistor DTC144EKT96		R863	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT
TR856	269 0123 900	Transistor DTC124TKT146		R864	247 2005 945	Carbon chip 150 ohm 1/16W	RM73B--151JT
TR857	269 0119 901	Transistor DTA124EKT96(TAPE)		R865	247 2005 929	Carbon chip 120 ohm 1/16W	RM73B--121JT
TR858	269 0123 900	Transistor DTC124TKT146		R866	247 2005 945	Carbon chip 150 ohm 1/16W	RM73B--102JT
TR859	269 0119 901	Transistor DTA124EKT96(TAPE)		R867	247 2011 900	Carbon chip 33 kohm 1/16W	RM73B--470JT
TR860	271 0260 905	Transistor 2SA1036KT146(S/R)		R868	247 2009 925	Carbon chip 5.6 kohm 1/16W	RM73B--562JT
TR861	273 0437 909	Transistor 2SC2411K-T146		R869	247 2011 900	Carbon chip 33 kohm 1/16W	RM73B--333JT
TR862-864	269 0054 901	Transistor DTC144EKT96		R870	247 2009 925	Carbon chip 5.6 kohm 1/16W	RM73B--562JT
TR865	273 0437 909	Transistor 2SC2411K-T146		R871	247 2011 900	Carbon chip 33 kohm 1/16W	RM73B--333JT
TR866	271 0260 905	Transistor 2SA1036KT146(S/R)		R872	247 2009 925	Carbon chip 5.6 kohm 1/16W	RM73B--562JT
TR867	269 0054 901	Transistor DTC144EKT96		R873-875	247 2004 975	Carbon chip 75 ohm 1/16W	RM73B--750JT
TR868	271 0260 905	Transistor 2SA1036KT146(S/R)		R876	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B--472JT (1608)
TR869	273 0437 909	Transistor 2SC2411K-T146		R877,878	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
TR870	269 0054 901	Transistor DTC144EKT96		R883	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B--472JT (1608)
TR871	271 0260 905	Transistor 2SA1036KT146(S/R)		R884	247 2008 968	Carbon chip 3.3 kohm 1/16W	RM73B--332JT
TR872	272 0125 904	Transistor 2SB709A		R885,886	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
TR873	273 0437 909	Transistor 2SC2411K-T146		R887	247 2009 925	Carbon chip 5.6 kohm 1/16W	RM73B--562JT
TR874	272 0125 904	Transistor 2SB709A		R888-891	247 2008 968	Carbon chip 3.3 kohm 1/16W	RM73B--332JT
D851	276 0679 902	Diode MA152A(TAPE)		R892	247 2004 962	Carbon chip 68 ohm 1/16W	RM73B--680JT
D852	276 0628 908	Diode MA152WK		R893,894	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
D853	276 0679 902	Diode MA152A(TAPE)		R895,896	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B--472JT (1608)
ZD851	276 0683 969	Diode UDZS12B-TE17		R897-899	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
ZD852	276 0683 972	Diode UDZS13B-TE17		RESISTORS GROUP			
R801-804	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	C801,802	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT
R807	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	C809	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
R831	247 2007 943	Carbon chip 1 kohm 1/16W	RM73B--102JT	C810	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT
R832	247 2009 925	Carbon chip 5.6 kohm 1/16W	RM73B--562JT	C811	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT
R833	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103JT	C831	254 4299 964	Electrolytic 47uF/16V	CE04W1C470MT(SRE)
R834,835	247 2008 968	Carbon chip 3.3 kohm 1/16W	RM73B--332JT	C832,833	254 4300 963	Electrolytic 100uF/6.3V	CE04W0J101MT(SRE)
R836	247 2009 925	Carbon chip 5.6 kohm 1/16W	RM73B--562JT	C834,835	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
R837	247 2008 900	Carbon chip 1.8 kohm 1/16W	RM73B--182JT	C836,837	257 0508 917	Ceramic chip 470pF/50V	CC73CH1H471JT
R838	247 2008 968	Carbon chip 3.3 kohm 1/16W	RM73B--332JT	C838,839	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
R839	247 2009 925	Carbon chip 5.6 kohm 1/16W	RM73B--562JT	C841-844	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
R840	247 2006 960	Carbon chip 470 ohm 1/16W	RM73B--471JT	C845,846	257 0508 917	Ceramic chip 470pF/50V	CC73CH1H471JT
R841,842	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT	C847,848	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101JT
R843-847	247 2004 975	Carbon chip 75 ohm 1/16W	RM73B--750JT	C851,852	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101JT
R848,849	247 2009 909	Carbon chip 4.7 kohm 1/16W	RM73B--472JT (1608)	C853	254 4299 964	Electrolytic 47uF/16V	CE04W1C470MT(SRE)
R850	247 2008 968	Carbon chip 3.3 kohm 1/16W	RM73B--332JT	C854,855	254 4300 963	Electrolytic 100uF/6.3V	CE04W0J101MT(SRE)
R851,852	247 2005 903	Carbon chip 100 ohm 1/16W	RM73B--101JT	C856-859	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
				C860,861	254 4300 963	Electrolytic 100uF/6.3V	CE04W0J101MT(SRE)
				C862	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
				C863	254 4300 963	Electrolytic 100uF/6.3V	CE04W0J101MT(SRE)
				C864,865	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT
				C866-868	254 4299 964	Electrolytic 47uF/16V	CE04W1C470MT(SRE)

Ref. No.	Part No.	Part Name	Remarks	
C869	254 4300 963	Electrolytic 100uF/6.3V	CE04W0J101MT(SRE)	
C870	254 4299 919	Electrolytic 22uF/16V	CE04W1C220MT(SRE)	
C871	254 4300 963	Electrolytic 100uF/6.3V	CE04W0J101MT(SRE)	
C872	254 4299 919	Electrolytic 22uF/16V	CE04W1C220MT(SRE)	
C873	254 4300 963	Electrolytic 100uF/6.3V	CE04W0J101MT(SRE)	
C874	254 4299 919	Electrolytic 22uF/16V	CE04W1C220MT(SRE)	
C875	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	
C876	254 4300 963	Electrolytic 100uF/6.3V	CE04W0J101MT(SRE)	
C877,878	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	
C879	257 0511 904	Ceramic chip 0.01uF/50V	CK73F1H103ZT	
C880	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102KT	
C890,891	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0KT	
C896,897	257 0512 903	Ceramic chip 0.1uF/25V	CK73F1E104ZT	
C898,899	254 4300 963	Electrolytic 100uF/6.3V	CE04W0J101MT(SRE)	
OTHER PARTS GROUP				Q'ty
CX031	205 0355 033	3P KR connector base (L)		1
CX052	205 0355 059	5P KR connector base (L)		1
CY102	205 0480 005	10P KR connector base (L)		1
FB801-816	235 0130 903	Chip emifil (11A121)		16
FB851-862	235 0130 903	Chip emifil (11A121)		12
JK851,852	204 6649 009	RGB connector		2
L851	235 0070 911	Inductor 22uH		1
W801,802	414 0903 005	SCART shield plate		2

EXPLODED VIEW



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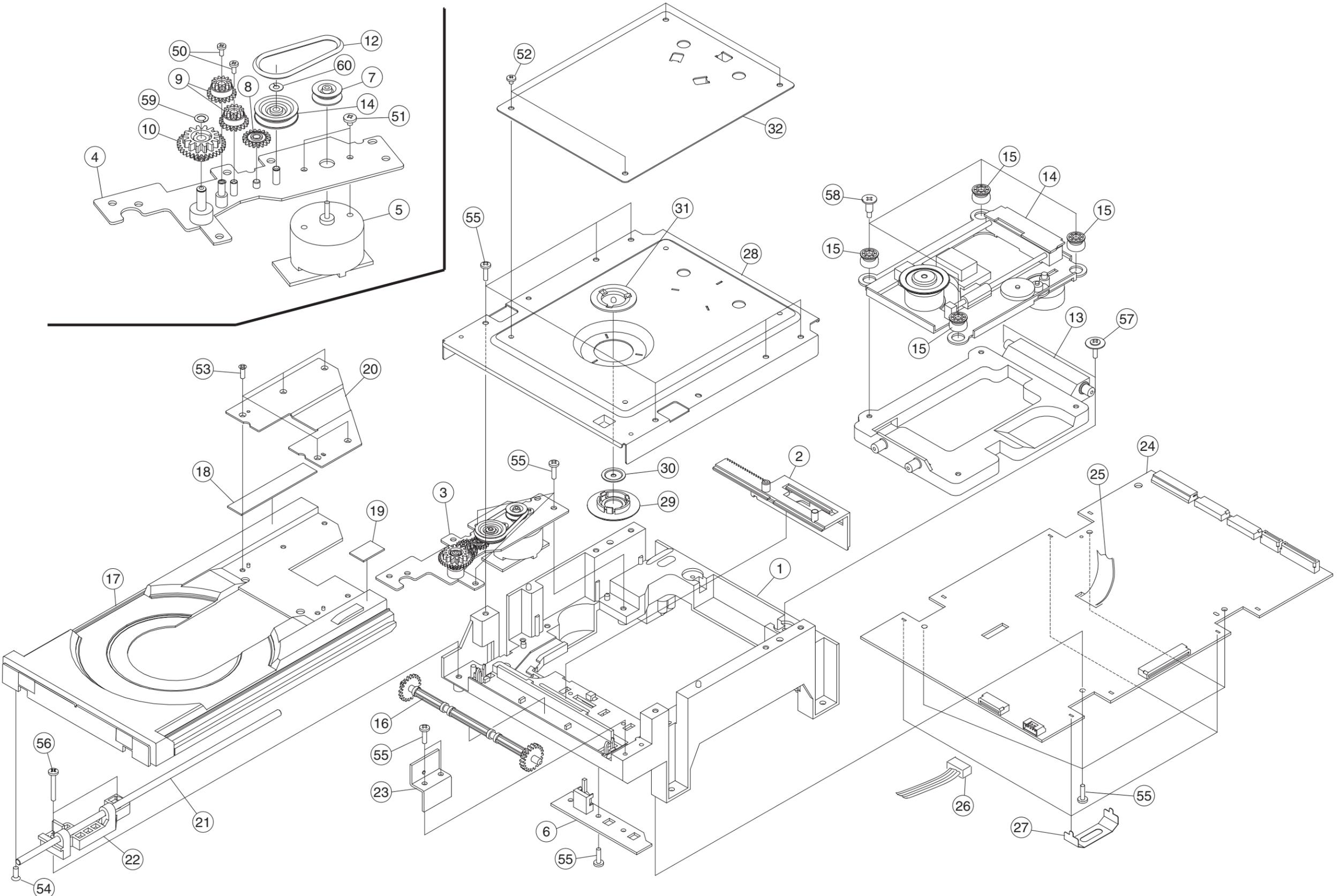
PARTS LIST OF EXPLODED VIEW

Note : The symbols in the column "Remarks" indicate the following destinations.
 E3 : U.S.A. & Canada model E2 : Europe model
 E1 : Asia model E1K : Korea model

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
1	GU- 3389 A	Main P.W.B. unit		1	35	203 5296 010	3P PH-PH connector cord	CW036	1
2	GU- 3438	Audio/Video P.W.B. unit Ass'y	for E3	1	★ 36	203 8532 001	5P PH-PH connector cord	CW052 for E2	1
2	GU- 3438 D	Audio/Video P.W.B. unit Ass'y	for E2	1	★ 37	204 2942 001	10P PH-PH connector cord	CW102 for E2	1
2	GU- 3438 E	Audio/Video P.W.B. unit Ass'y	for E1, E1K	1	38	412 4944 006	Front angle		1
2-1	—	Audio P.W.B. unit			39	144 2750 263	Front panel	for Black model	1
2-2	—	Video P.W.B. unit			39	144 2750 276	Front panel	for Gold model	1
3	GU- 3439	Power/Display P.W.B. unit Ass'y	for E3	1	40	131 9004 013	DENON mark	for Black model	1
3	GU- 3439 D	Power/Display P.W.B. unit Ass'y	for E2	1	40	131 9004 068	DENON mark	for Gold model	1
3	GU- 3439 E	Power/Display P.W.B. unit Ass'y	for E1, E1K	1	41	143 1145 009	Window		1
3-1	—	Digital power P.W.B. unit			42	143 1110 005	Lens		3
3-2	—	Display P.W.B. unit			43	146 2225 309	Inner panel	for Black model	1
3-3	—	LED P.W.B. unit			43	146 2225 312	Inner panel	for Gold model	1
3-4	—	Select P.W.B. unit			44	203 5296 007	3P PH-PH connector cord	CW035	1
3-5	—	Power switch P.W.B. unit			45	009 0234 006	17P FFC (1.0)	CW171	1
3-6	—	I/F P.W.B. unit			46	203 5294 009	3P VH-VH connector cord	CW025	1
4	GU- 3442	SCART P.W.B. unit	for E2	1	47	113 1886 008	Power switch knob	for Black model	1
5	GEN 5903	FG-180 DVD mecha. sub Ass'y		1	47	113 1886 011	Power switch knob	for Gold model	1
6	411 1961 102	Chassis		1	48	112 0855 024	Volume knob (B)	for Black model	1
7	513 3363 004	Caution label	for E3	1	48	112 0855 037	Volume knob (B)	for Gold model	1
8	105 1402 009	Bottom cover		1	49	461 1109 011	PWB rubber		2
9	441 1963 004	Trans. bracket		1	50	129 0253 048	Rubber sheet		2
10	104 0313 015	Foot		4	51	461 1131 005	Rubber foam		2
11	105 1401 000	Rear panel	for E3	1	52	461 1131 018	Rubber foam		1
11	105 1401 026	Rear panel	for E2	1	53	102 0644 005	Top cover	for Black model	1
11	105 1401 039	Rear panel	for E1	1	53	102 0644 018	Top cover	for Gold model	1
11	105 1401 042	Rear panel	for E1K	1	54	105 1403 008	Top cover damper		1
△	203 3994 000	AC inlet	for E3	1	55	146 2282 009	Loader panel	for Black model	1
	203 3995 009	AC inlet	for E2, E1, E1K	1	55	146 2282 012	Loader panel	for Gold model	1
13	203 5293 013	3P VH connector cord	CW024	1	56	135 0067 006	DVD-A plate	for Black model	1
14	342 0032 011	Ferrite clamp (RFC-9)		1	56	135 0067 019	DVD-A plate	for Gold model	1
★ 15	445 0033 005	Wire clamp band		1	★ 57	513 3747 002	Rating sheet	for E3	1
16	417 0634 001	Heat sink		2	★ 57	513 3798 006	Rating sheet	for E2	1
17	417 0636 009	Heat sheet		2	★ 57	513 3842 004	Rating sheet	for E1	1
18	412 4927 201	Mech. fix bracket		1	★ 57	513 3886 003	Rating sheet	for E1K	1
19	461 1137 009	Spacer	for E2,E1, E1K	1	★ 58	513 3437 008	Label C	for E1	1
★ 20	513 3827 016	Fuse label	for E2,E1, E1K	2	★ 59	513 1381 004	Manufac. date label	for E3	1
★ 21	513 3827 003	Fuse label	for E2,E1, E1K	1	SCREWS				
22	461 1136 013	Spacer		2	103	473 7002 018	Screw 3x8 CBTS(S)-Z		52
23	461 1125 121	FL spacer		1	104	473 7003 017	Screw 3x8 CFTS (S)-B		2
24	412 2197 046	Card stand (H=18)		2	105	473 7007 000	Screw 4x8 CBTS(S)-B		4
△	233 6404 006	Power trans.	for E3	1	106	473 7015 005	Screw 3x6 CBTS (S)-B		15
	233 6406 004	Power trans.	for E2,E1, E1K	1	107	473 7500 044	Screw 3x8 CBTS(P)-B		14
26	445 0048 016	Cord holder (L50)		5	112	477 0064 123	Fixing screw	for E3, E1, E1K	8
27	203 5295 008	3P VH-VH connector cord	CW032	1	112	477 0064 123	Fixing screw	for E2	12
28	204 6741 004	14P PH-PH connector cord	CW141	1	113	477 0263 005	3P. swelling screw	for Black model	10
29	009 0235 047	30P FFC (1.0)	CW301	1	113	477 0263 018	3P. swelling screw	for Gold model	10
30	009 0235 021	21P FFC (1.0)	CW211	1	114	—	Special screw	Attachment for 9P S SUB connector	2
31	009 0235 034	21P FFC (1.0)	CW212	1	115	—	9 SP nut	Attachment for Rotary switch	1
32	009 0235 005	27P FFC (1.0)	CW272	1					
33	009 0235 018	13P FFC (1.0)	CW131	1					
★ 34	513 3406 107	Label (A)	for E3	1					
★ 34	513 3463 001	Label (Laser)	for E2,E1, E1K	1					
★ 34	513 2065 002	E2 laser caution	for E2	1					

EXPLODED VIEW OF DVD MECHANISM

1 2 3 4 5 6 7 8



A
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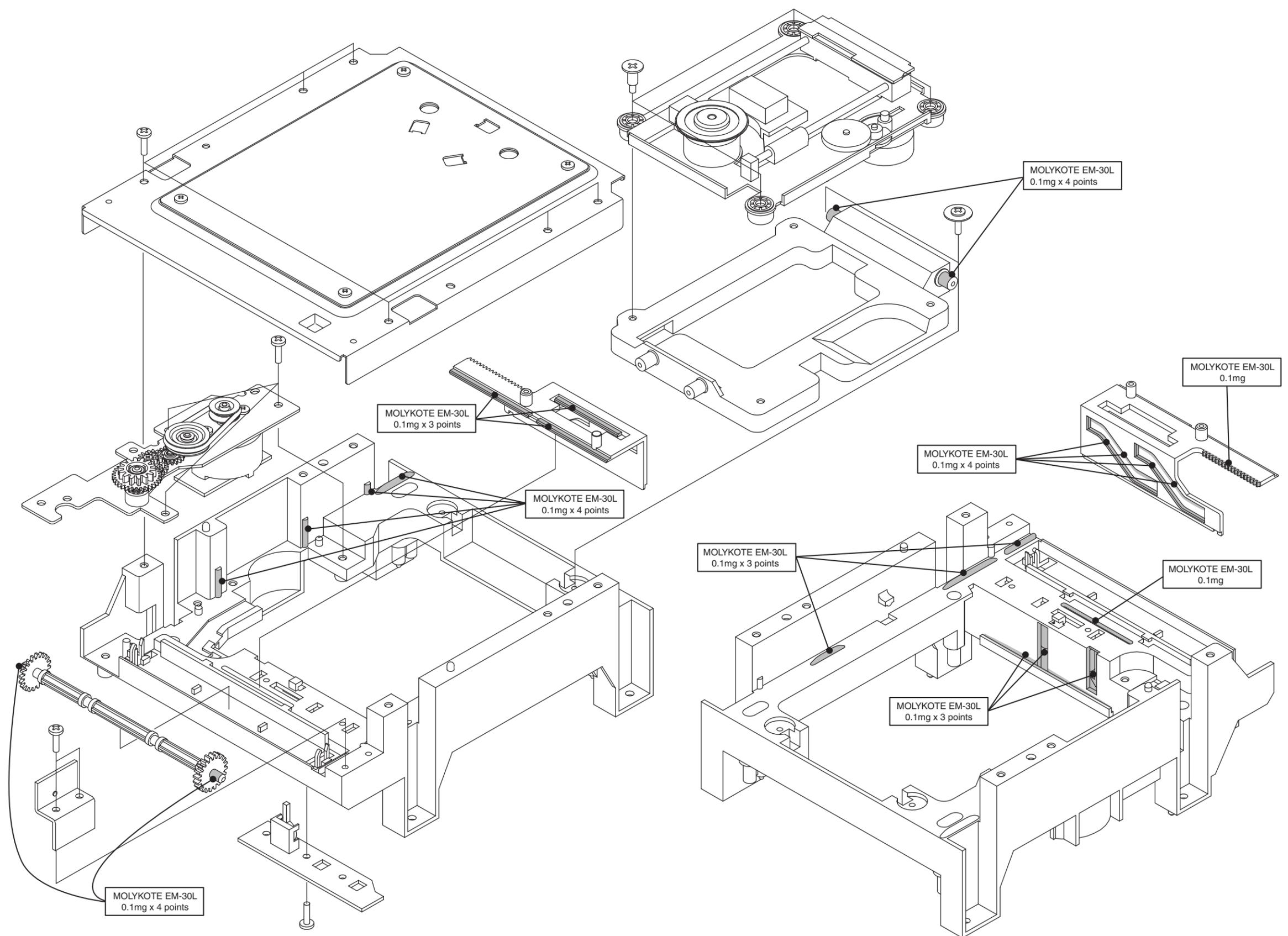
PARTS LIST OF DVD MECHANISM

Ref. No.	Part No.	Part Name	Remarks	Q'ty
1	411 1988 101	Mecha chassis		1
2	431 0426 503	Plate gear		1
3	9KA 2A40 3D	Gear base sub ass'y		1
4	441 1952 109	Gear base ass'y		1
5	9KM 01T1 32	LD Motor		1
6-1	9KA 85P0 05	Detector SW P.W.B.		1
6-2	9KA 85G0 27	2P Connector wire		1
6-3	9KA 82G3 08	2P Connector		1
6-4	9KS 01W1 48	Detector SW		1
7	421 0772 108	Motor pulley		1
8	424 0269 209	Gear C		1
9	424 0268 200	Gear B		2
10	424 0267 201	Gear A		1
11	424 0270 104	Pulley gear		1
12	423 0077 100	Belt		1
13	446 0063 007	Mecha frame		1
14	9KC 2A07 4A	TRAV. Mecha		1
15	9KC 2G08 3A	Damper-IDLE		4
16	424 0246 109	Loader gear		1
17	431 0427 405	Loader		1
18	461 1131 005	Rubber form		1
19	461 1131 018	Rubber form		1
20	412 4817 104	Loader bracket		1
21	431 0384 001	Slide shaft		1
22	431 0428 006	Holder		1
23	412 4818 006	Bearing plate Ass'y		1
24	GU- 3389	Main P.W.B. unit		1
25	009 0186 015	24P FFC cable (0.5)		1
26	203 8517 068	5P PH-PH Connector cord		1
27	414 0963 003	Earth plate		4
28	412 4820 201	Clamp base		1
29	9KA 7G20 3B	Clamper L		1
30	9KA 7P08 5A	Clamper T		1
31	9KA 7G20 2D	Clamper H		1
32	403 0061 002	Clamp base damper		1
34	513 3436 009	ROM seal		1
SCREWS				
50	471 9057 007	Special screw M1.7		2
51	9KM 01T1 32	Screw 2.6x2.5CBS-NI		2
52	471 3813 001	Screw 2.6x4 CBS-B		4
53	9KH 26P0 08	Screw 2.6x8CFTS(P)		5
54	473 7511 004	Screw 3x10 CFTS (P)-Z		1
55	473 7508 017	Screw 3x10 CBTS (P)-B		16
56	473 7508 046	Screw 3x16 CBTS (P)-B		2
57	477 0262 006	Special screw		2
58	9KC 1H01 1A	SCW-Damper		4
59	9KP 36C6 25	Slit washer		1
60	9KP 26C6 25	Slit washer		1

POINTS OF GREASING (1/2)

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POINTS OF GREASING (2/2)

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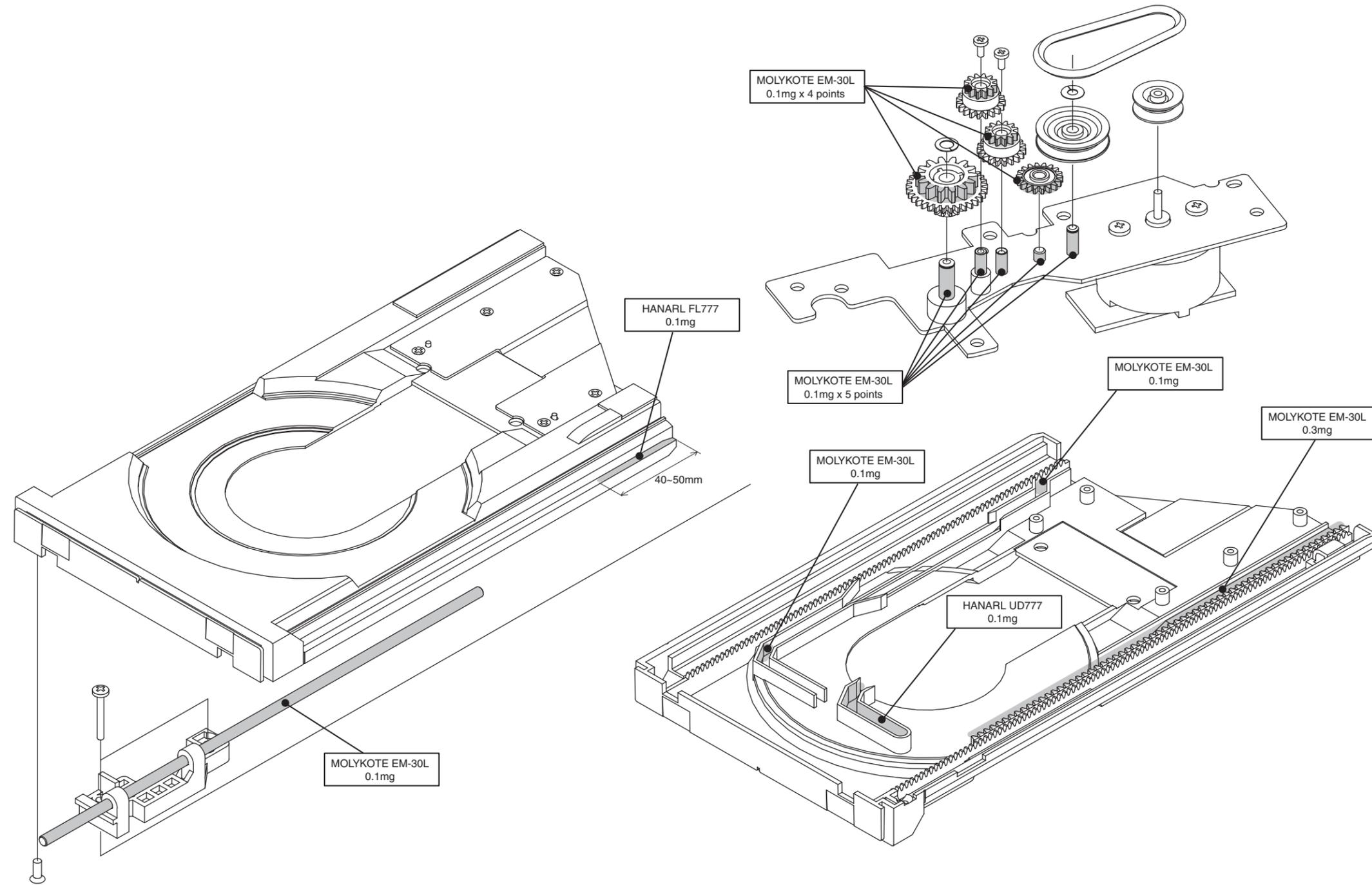
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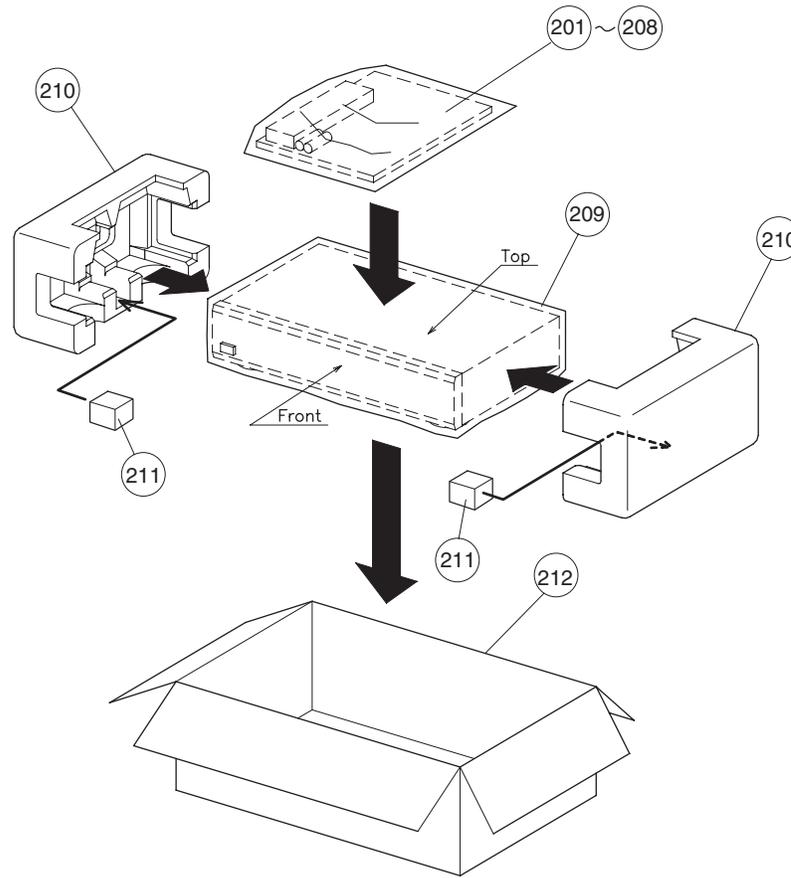
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PACKING VIEW

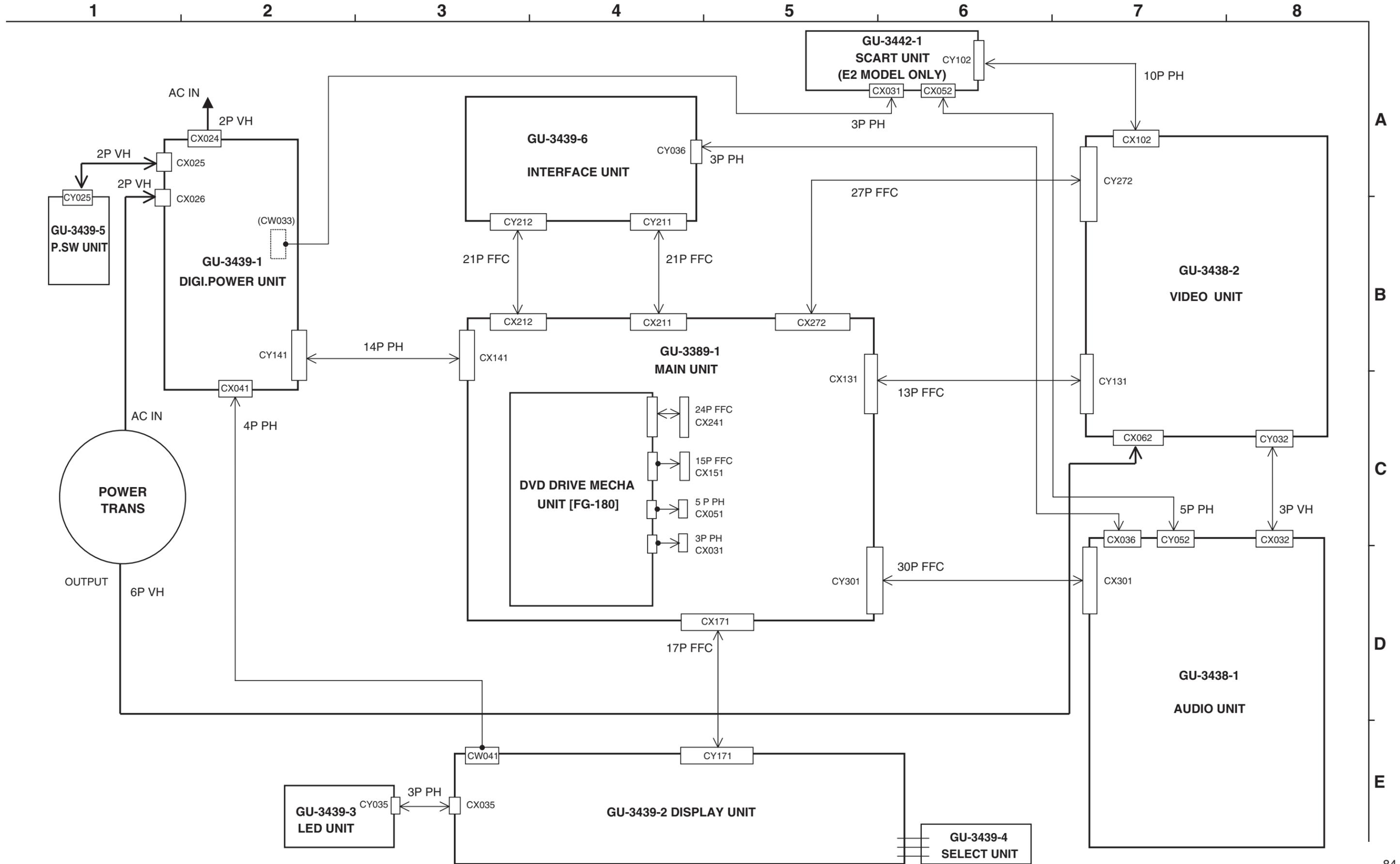


PARTS LIST OF PACKING & ACCESSORIES

Note : The symbols in the column "Remarks" indicate the following destinations.
 E3 : U.S.A. & Canada model E2 : Europe model
 E1 : Asia model E1K: Korea model

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
201	505 0038 043	Poly. cover		1	209	505 0312 028	Cabinet cover		1
202	511 3877 002	Instruction manual	for E3	1	210	503 1374 001	Cushion		2
	511 3897 008	Instruction manual	for E2	1	211	503 1440 003	Bottom cushion		2
	511 3898 007	Instruction manual	for E1	1	212	501 2172 002	Carton case	for E3, E2	1
	511 3957 003	Instruction manual	for E1K	1		501 2172 028	Carton case	for E1, E1K	1
203	511 3928 100	Correction sheet	for E3	1	★ 213	—	Control card		
	511 3934 000	Correction sheet	for E2	1	★ 214	—	UPC label	for E3	
204	515 0921 005	Service station list (EX)		1		—	POS label	for E2 Black model	
⚠ 205	206 2202 006	AC cord set	for E3	1		—	POS label	for E2 Gold model	
	206 2203 005	AC cord set	for E2,E1	1	★ 215	513 3579 005	Region label	for E3	2
	206 2210 001	AC cord	for E1K	1		513 3579 018	Region label	for E2	2
206	203 5224 008	3P pin cord		1	★ 217	513 9111 001	Color label (gold)	for Gold model	2
207	399 0795 008	Remote controller RC-553		1	★ 218	513 3580 007	Carton label (CHINA)	for E1, E1K	1
208	—	Battery (AA/R6P)			★ 219	515 0690 404	DEL warranty home	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)

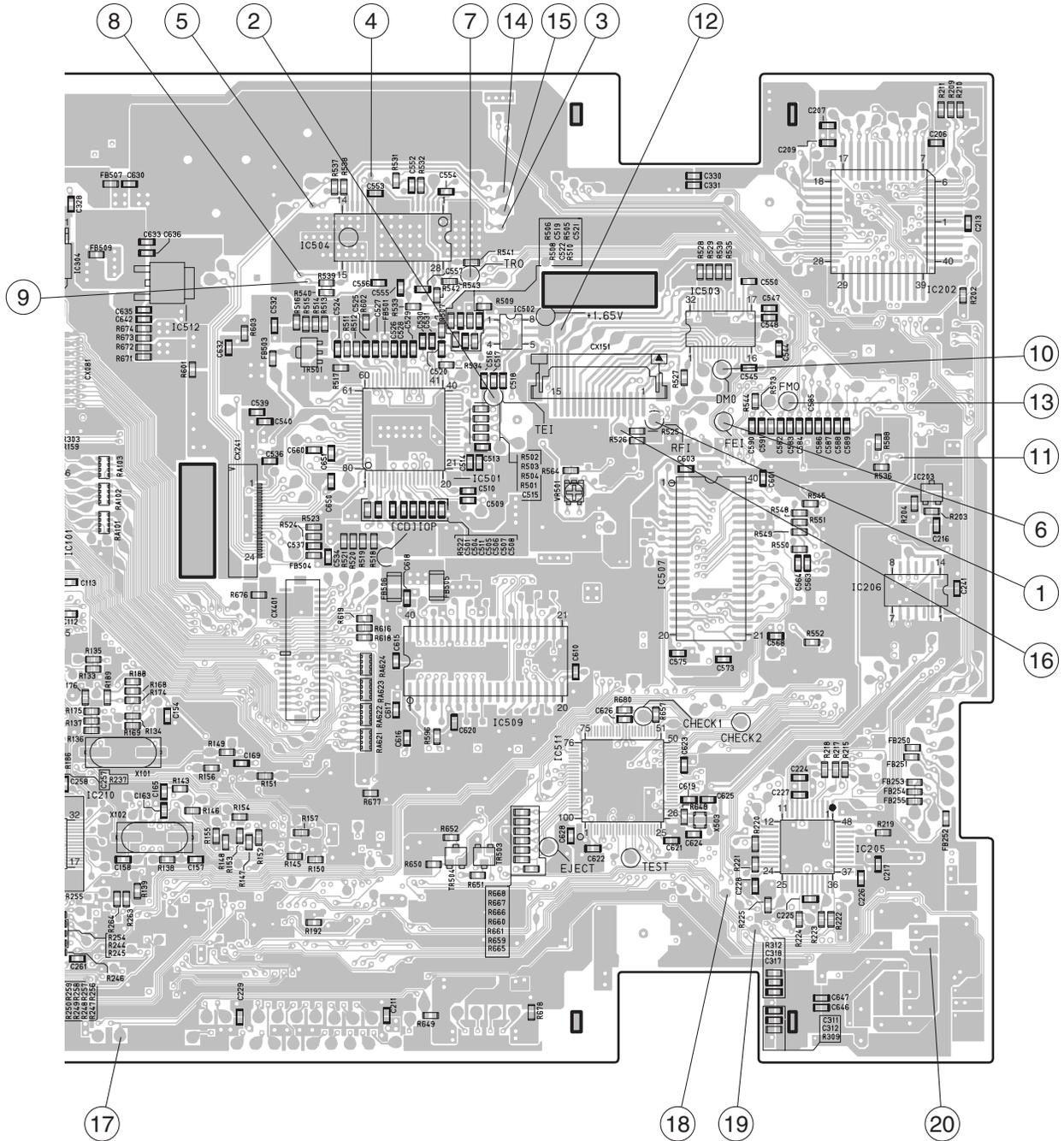
* For ⑱ ~ ㉔, connect the GND (-) probe to "GND".

NOTES

Measuring Disc: DVD/DVDT-S01 or TDV-520A
 CD/TC-D-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 lop.
- ① ~ ㉔ points have the certain test points shown below.

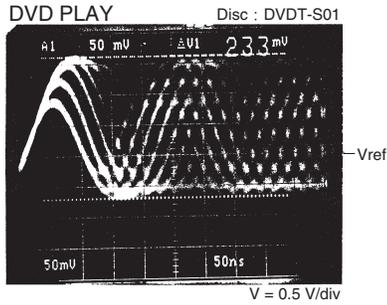


Main P.W.B. Unit Foil Side

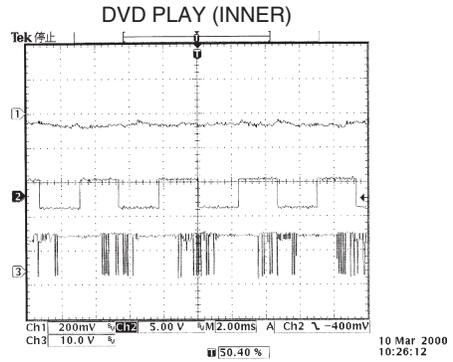
WAVEFORMS

● GU-3389-1 MAIN P.W.B.

① HF (RFI)



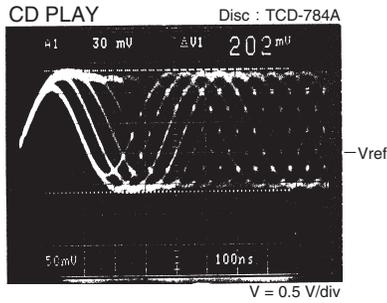
⑩ DMO



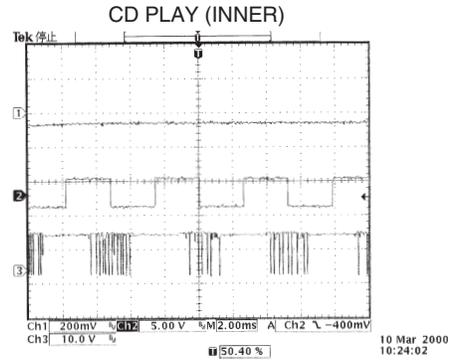
⑪ FG

⑫ A3

① HF (RFI)



⑩ DMO



⑪ FG

⑫ A3

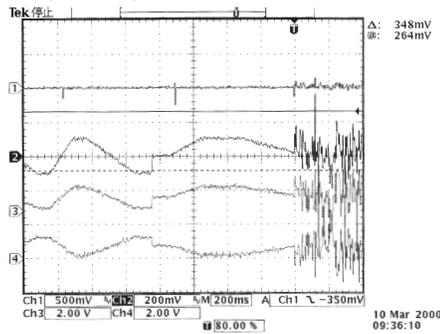
(DVD/CD) LOADING → PLAY

② FEI

③ FOO

④ FO+

⑤ FO-



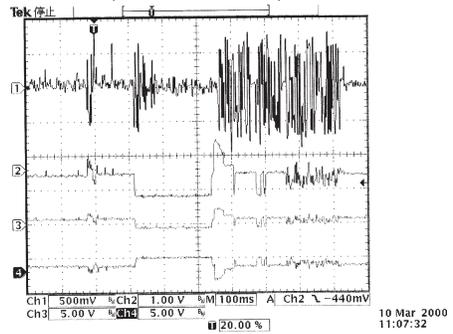
⑥ TEI

⑬ FMO

⑭ FM-

⑮ FM+

SEARCH TO OUTER CHAPTER
(INNER → OUTER)



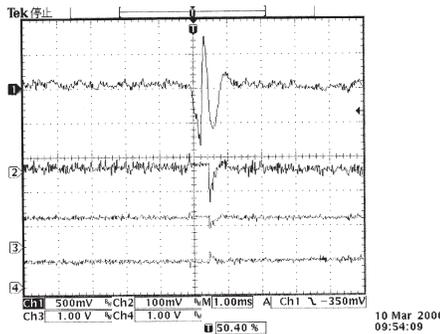
DVD PLAY

⑥ TEI

⑦ TRO

⑧ TR+

⑨ TR-



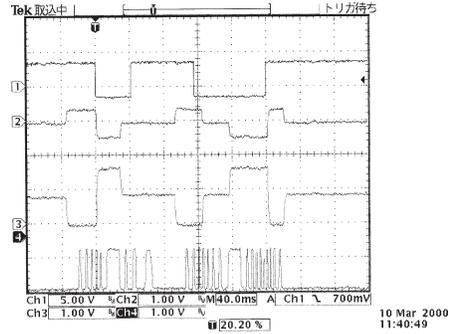
⑩ INSWN

⑬ FMO

⑭ FM+

⑰ OUT

POWER ON (INNER SWITCH ON)



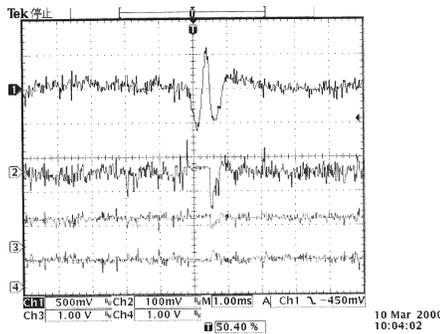
CD PLAY

⑥ TEI

⑦ TRO

⑧ TR+

⑨ TR-

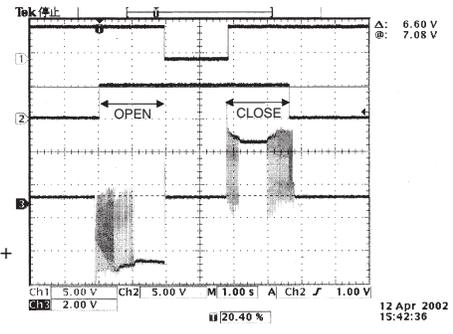


LOADER OPEN → CLOSE

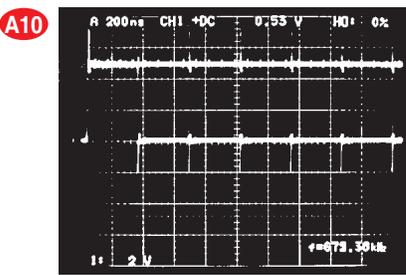
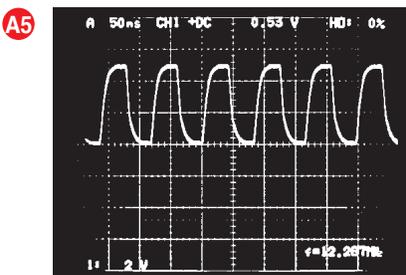
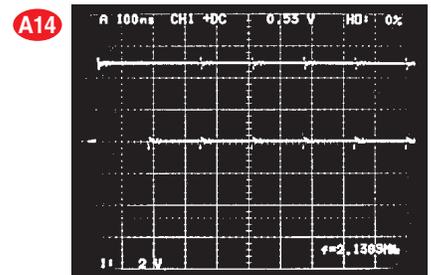
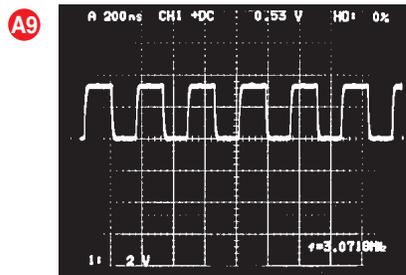
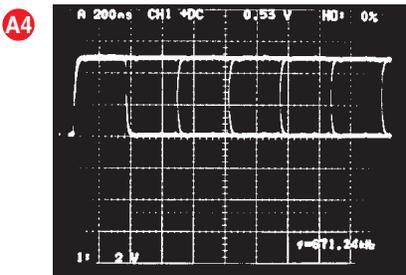
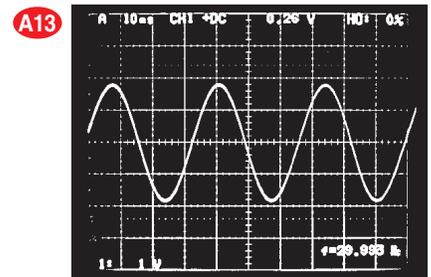
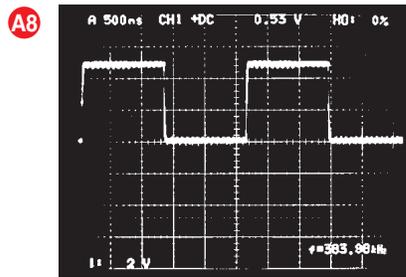
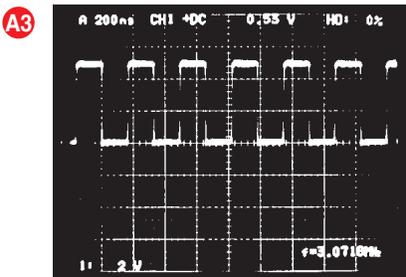
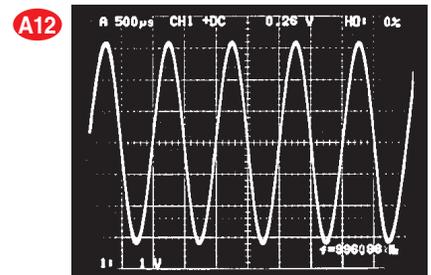
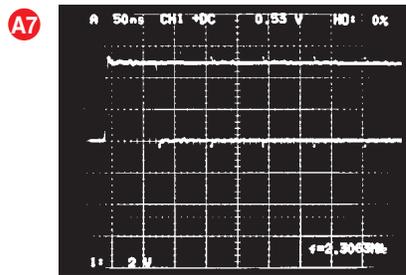
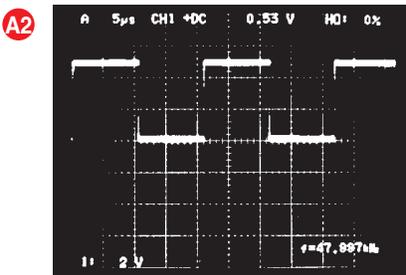
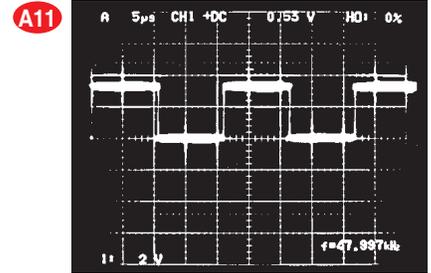
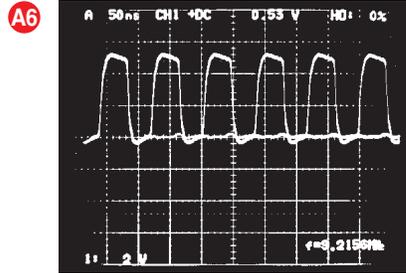
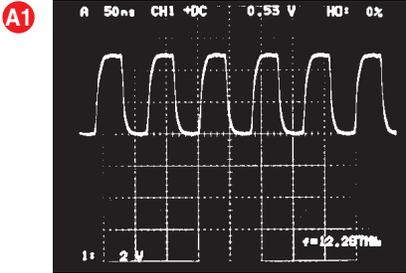
⑱ OPEN

⑲ CLOSE

⑳ LOADING+

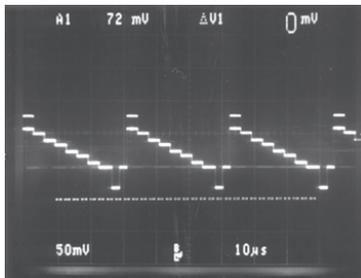


● GU-3438-1 AUDIO P.W.B.

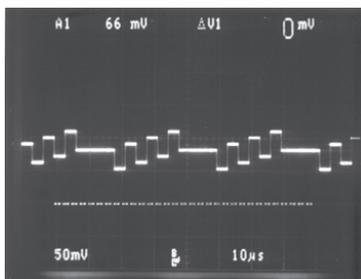


● GU-3389-1 MAIN P.W.B.

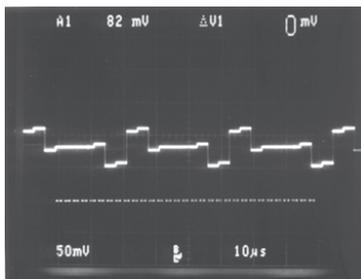
P1



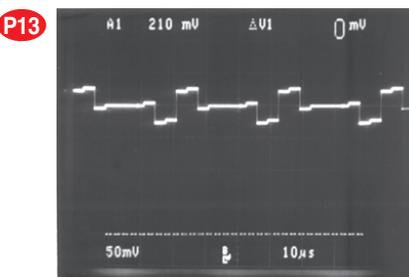
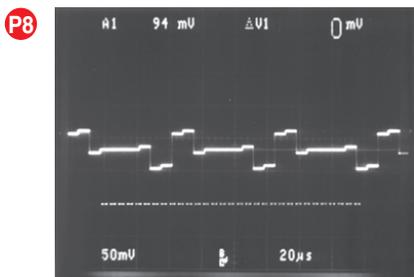
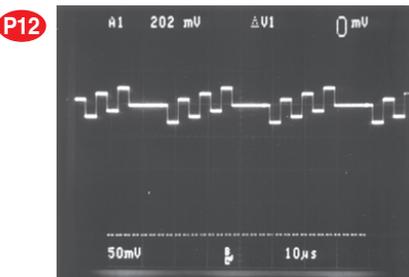
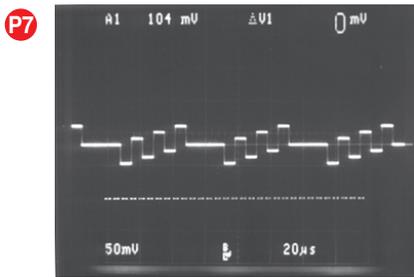
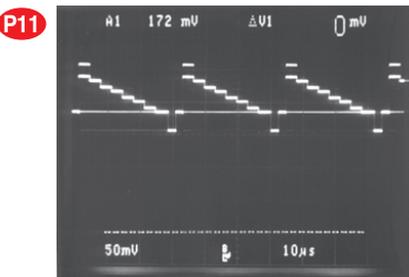
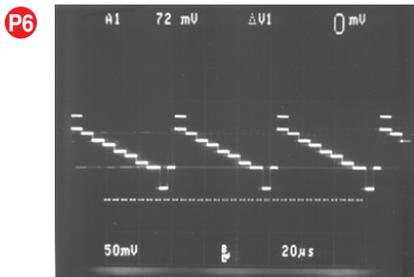
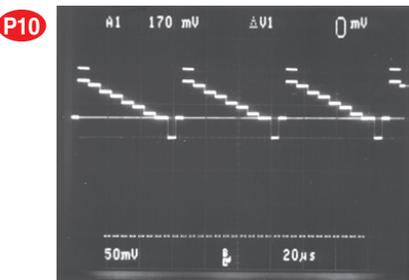
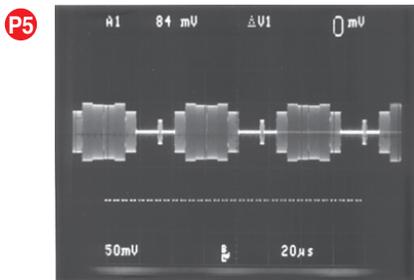
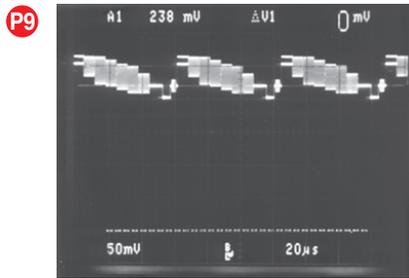
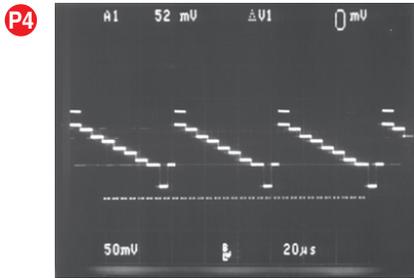
P2



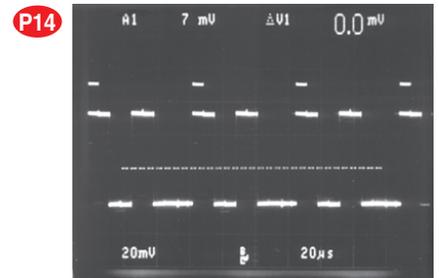
P3



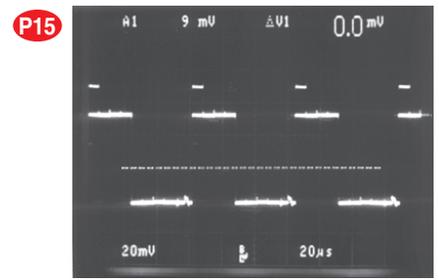
● GU-3438-2 VIDEO P.W.B.



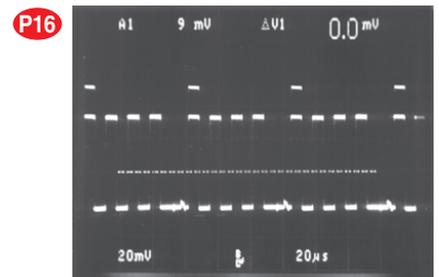
● GU-3442 SCART P.W.B.
(P14~P16: Europe model only)



75ohm terminate



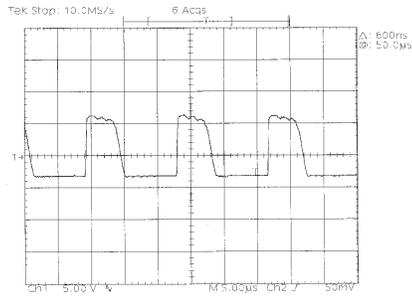
75ohm terminate



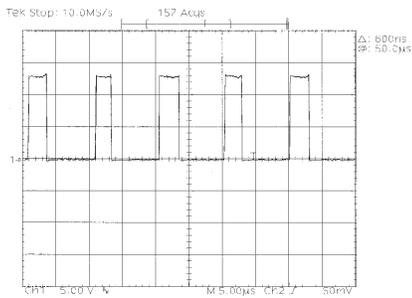
75ohm terminate

● GU-3439-1 DIGITAL POWER P.W.B.

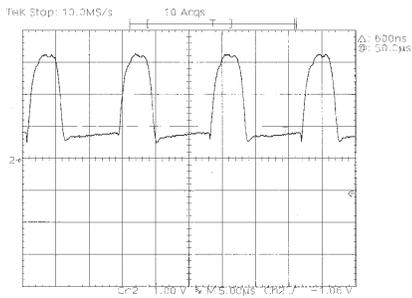
3439-A



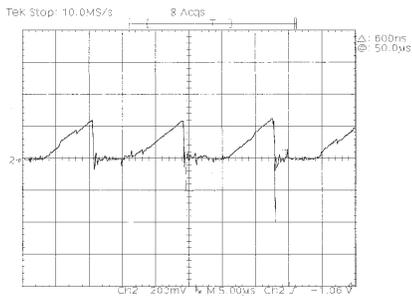
3439-B



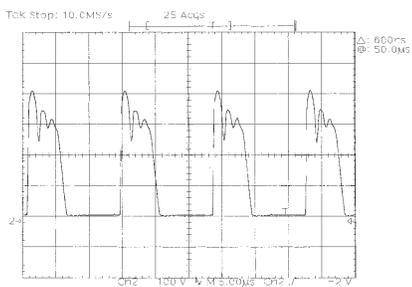
3439-C



3439-D

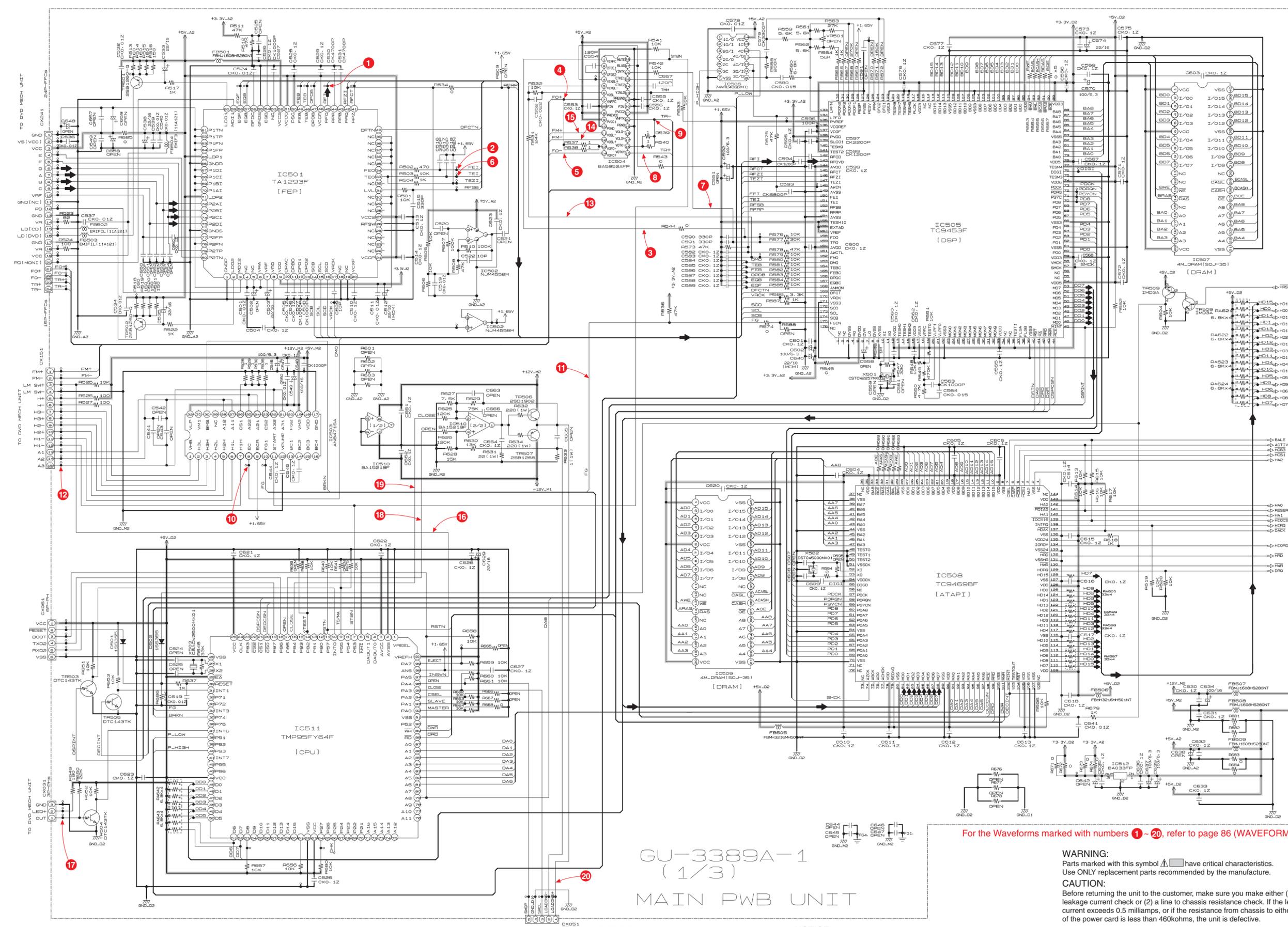


3439-E



SCHEMATIC DIAGRAMS (1/8)

1 2 3 4 5 6 7 8 9 10 11



GU-3389A-1
(1/3)
MAIN PWB UNIT

For the Waveforms marked with numbers ①~②①, refer to page 86 (WAVEFORMS).

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

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 millamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

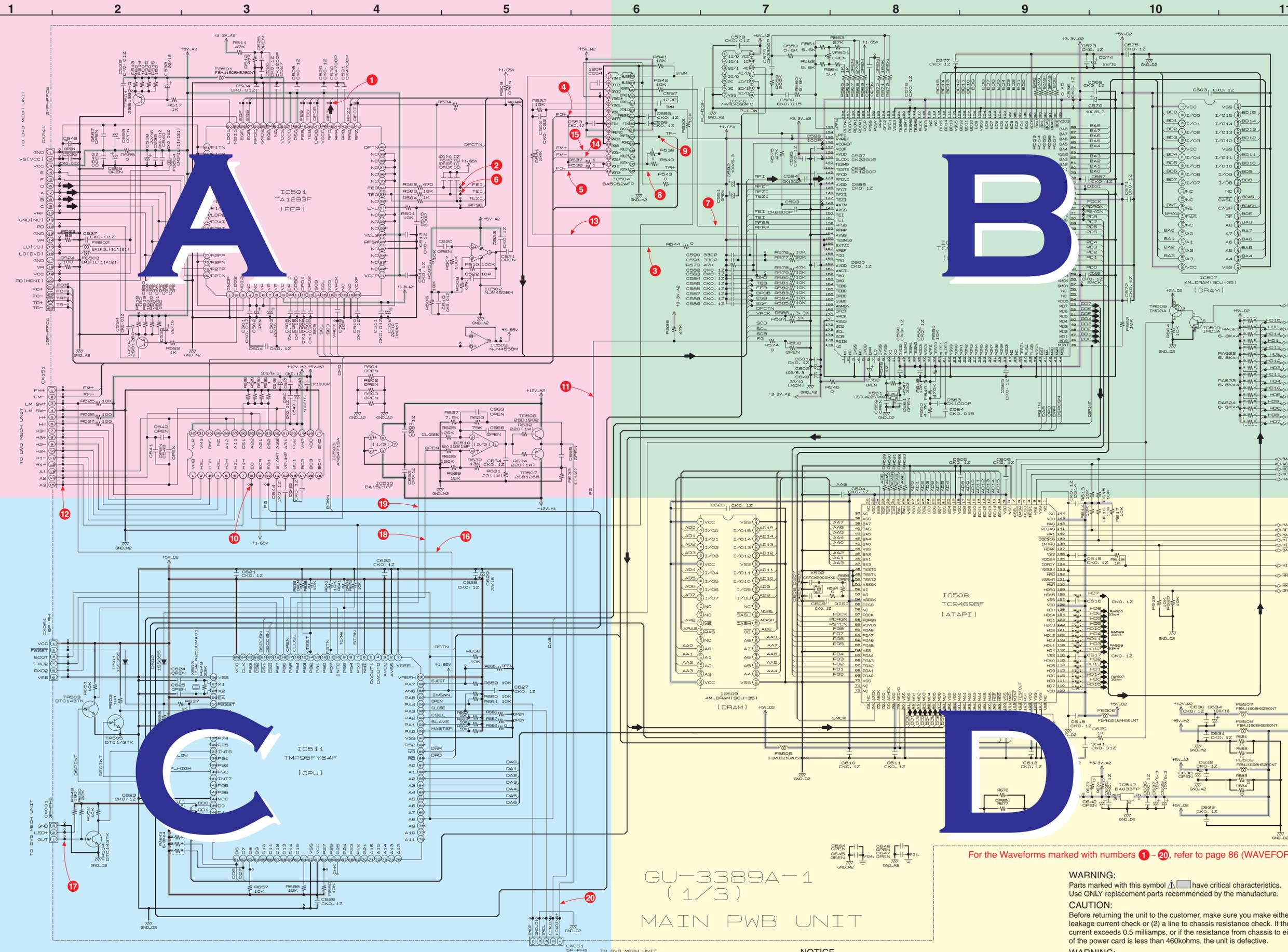
WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

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 MEASURED AT MO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

± B LINE
→ SIGNAL LINE

SCHEMATIC DIAGRAMS (1/8)
GU-3389A-1 MAIN UNIT(1/3)

SCHEMATIC DIAGRAMS (1/8)



GU-3389A-1
(1/3)
MAIN PWB UNIT

For the Waveforms marked with numbers 1~20, refer to page 86 (WAVEFORMS).

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 MEASURED AT MO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

— +B LINE
→ SIGNAL LINE

SCHEMATIC DIAGRAMS (1/8)
GU-3389A-1 MAIN UNIT(1/3)

SCHEMATIC DIAGRAMS (1/8)

1

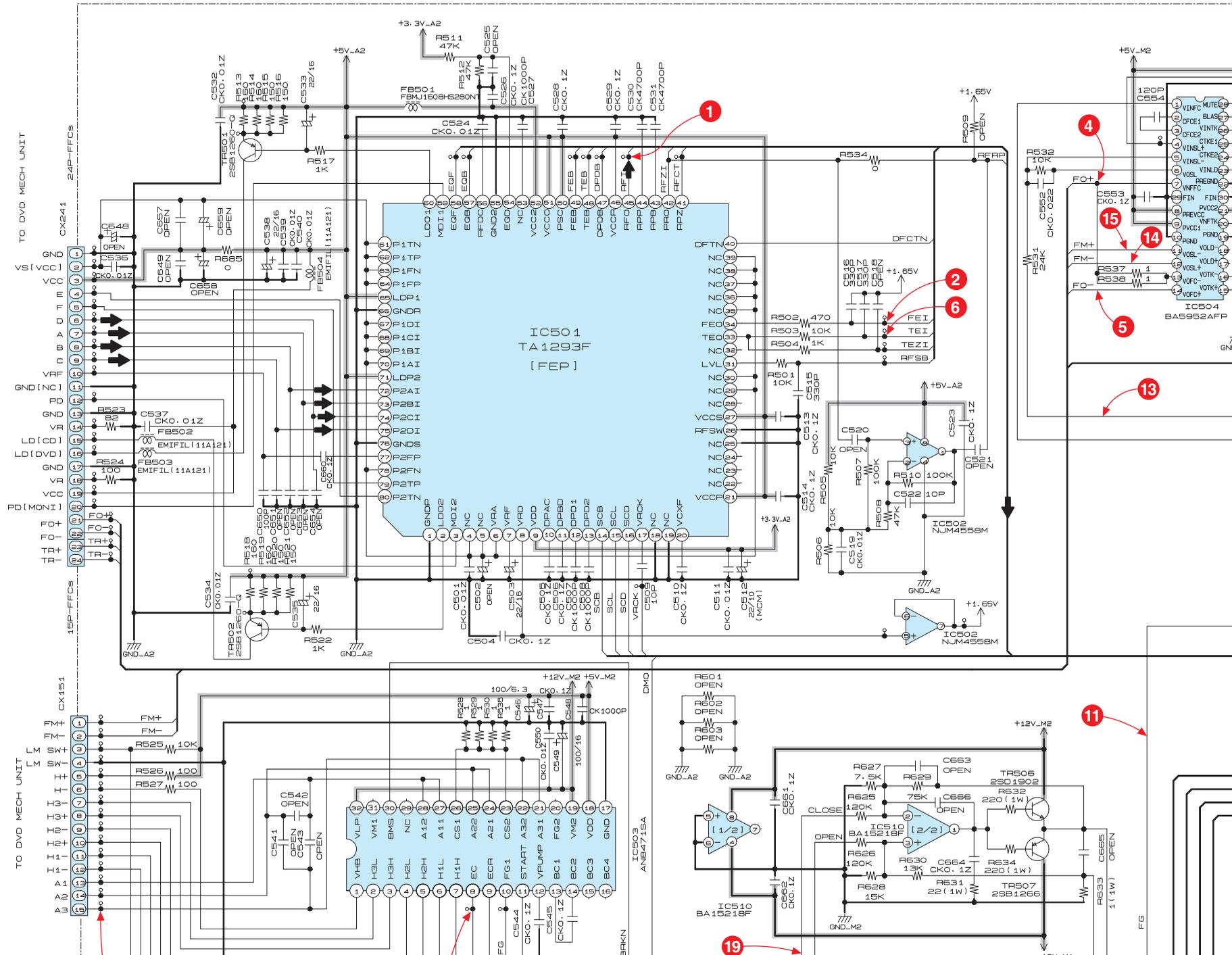
2

3

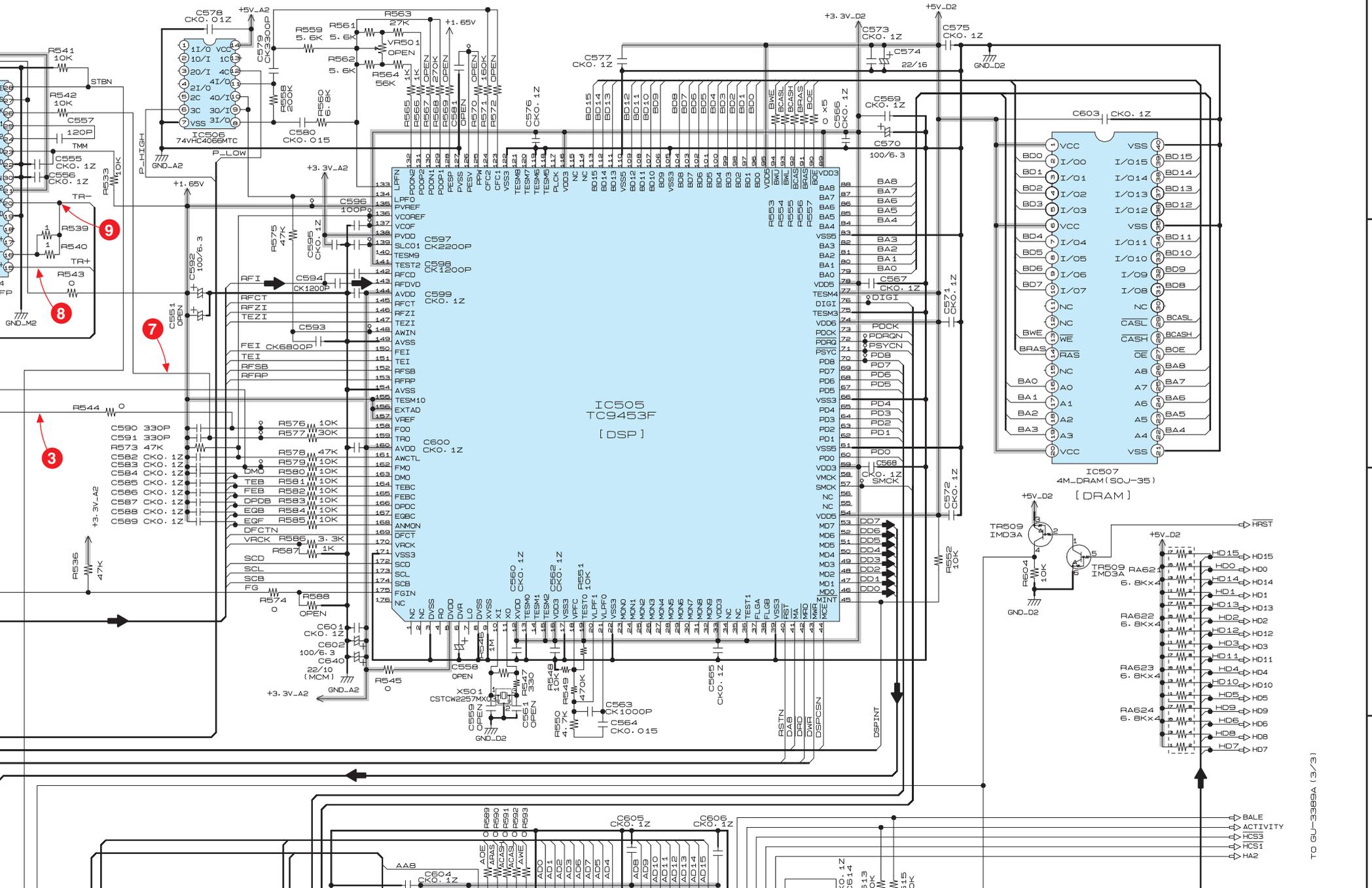
4

5

6



6 7 8 9 10 11



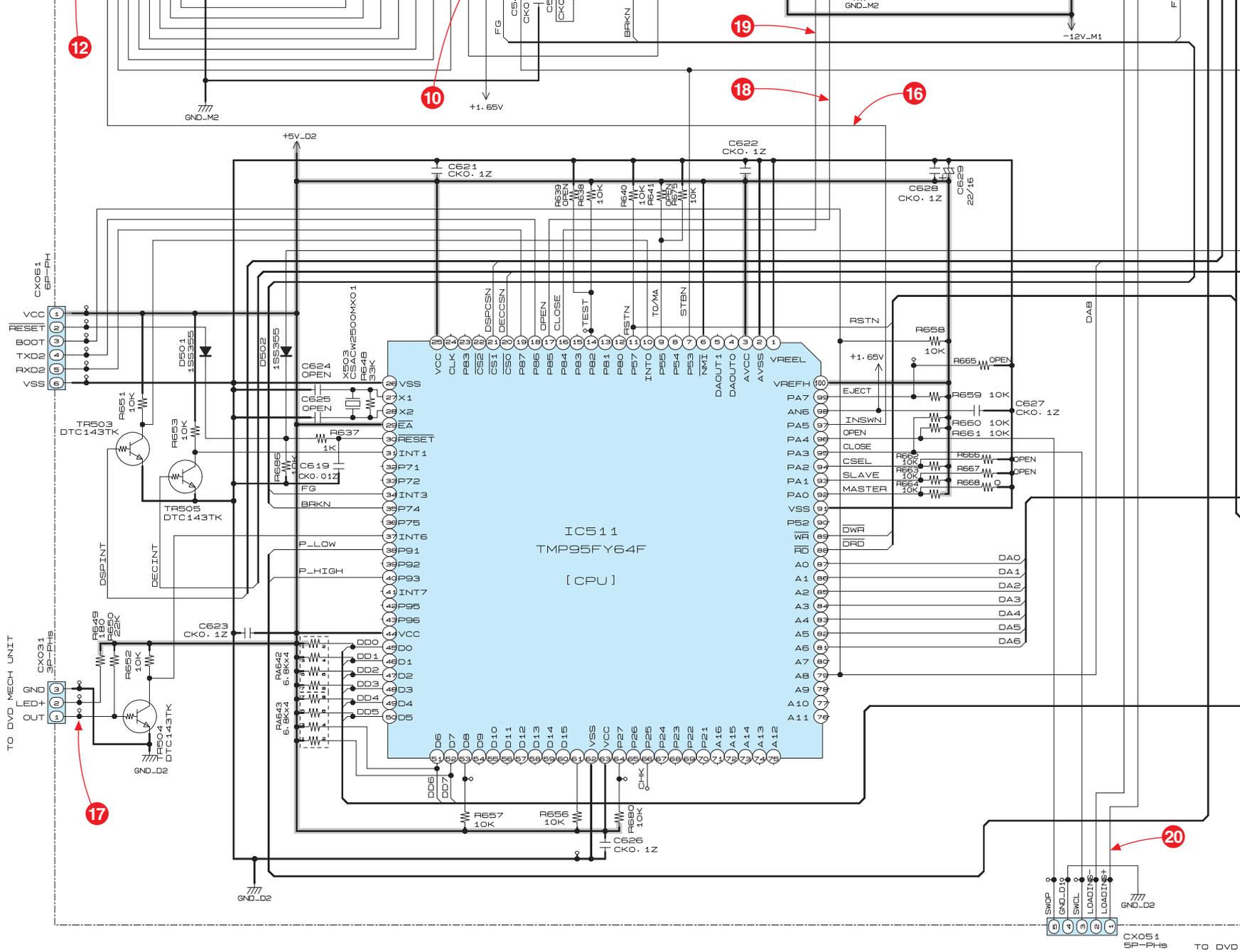
A

B

C

D

TO GU-3868A (3/3)



12

10

19

18

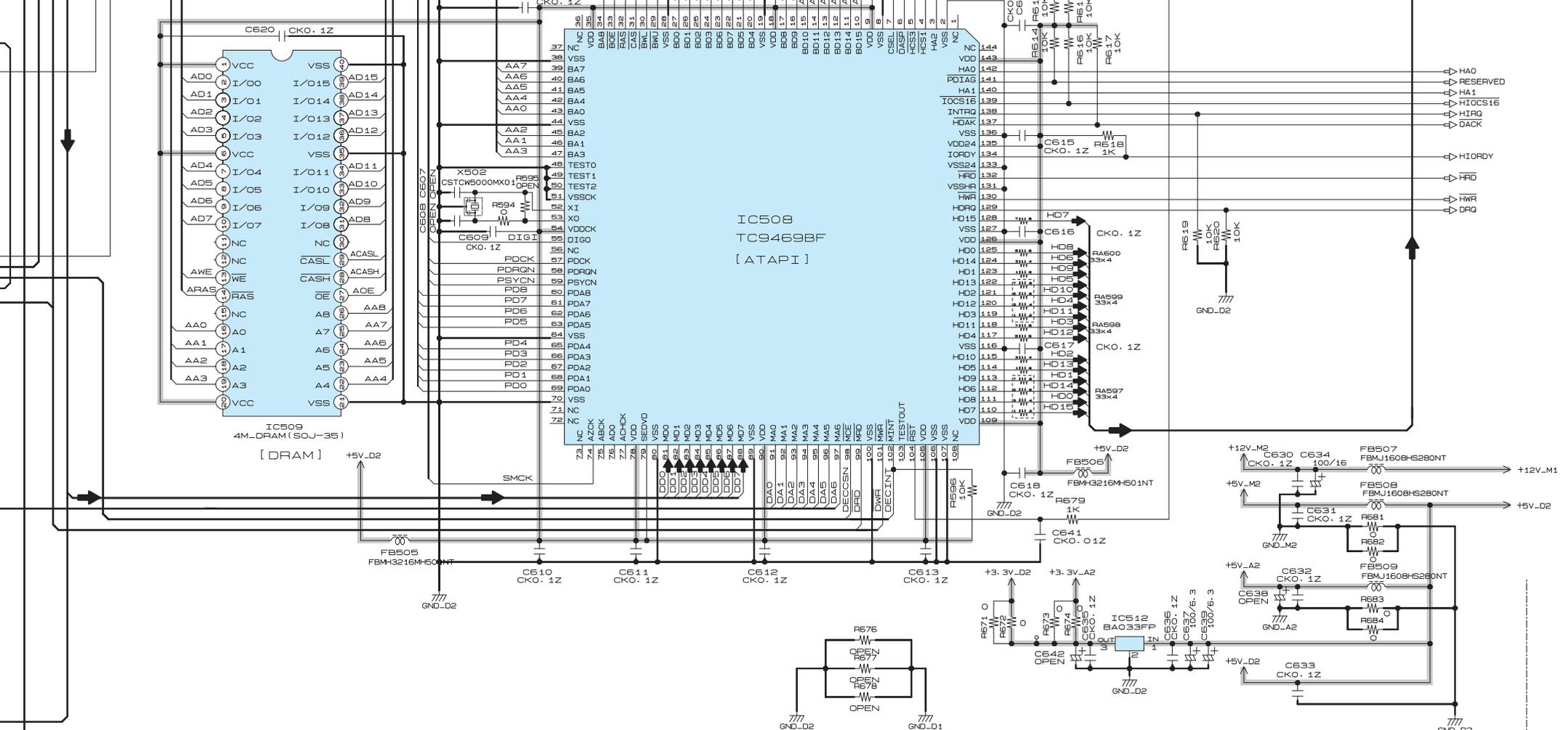
16

TO DVD_MECH_UNIT

17

20

CX051 5P-PHS TO DVD



GU-3389A-1
(1/3)
MAIN PWB UNIT

For the Waveforms marked with numbers ① ~ ②①, refer to page 86 (WAVEFORMS).

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 MEASURED AT MO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

± B LINE
➔ SIGNAL LINE

SCHEMATIC DIAGRAMS (1/8)
GU-3389A-1 MAIN UNIT(1/3)

SCHEMATIC DIAGRAMS (2/8)

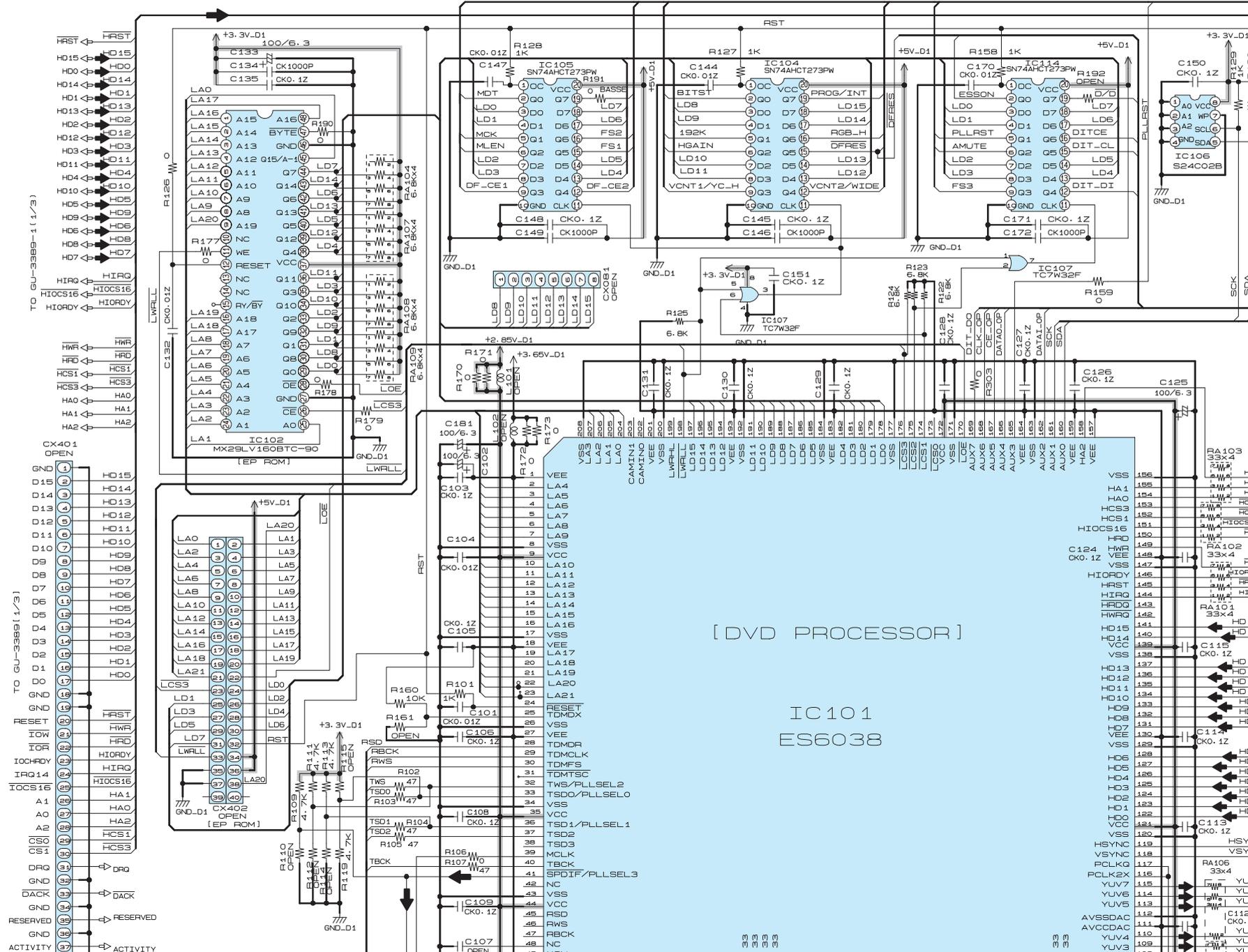
1

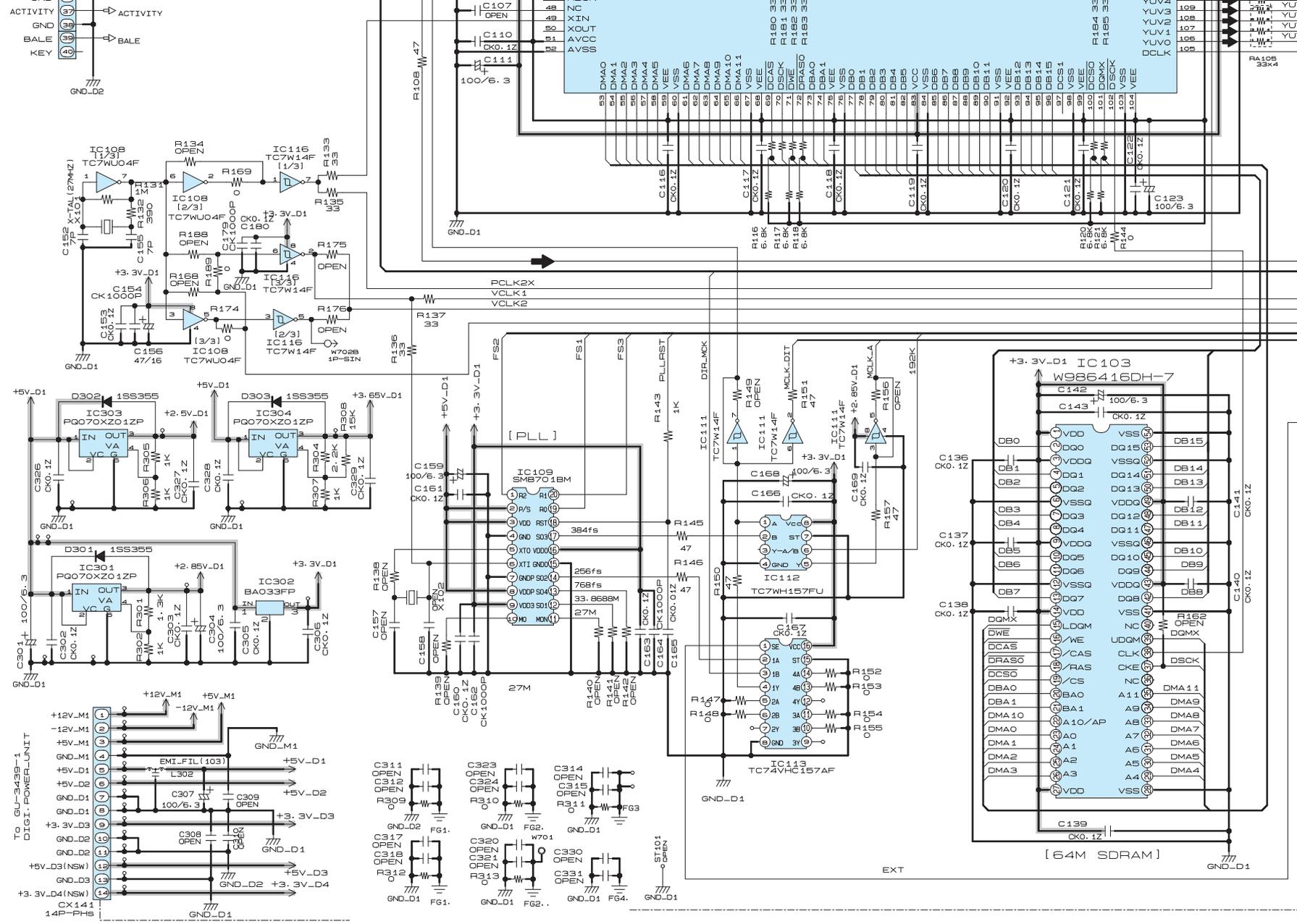
2

3

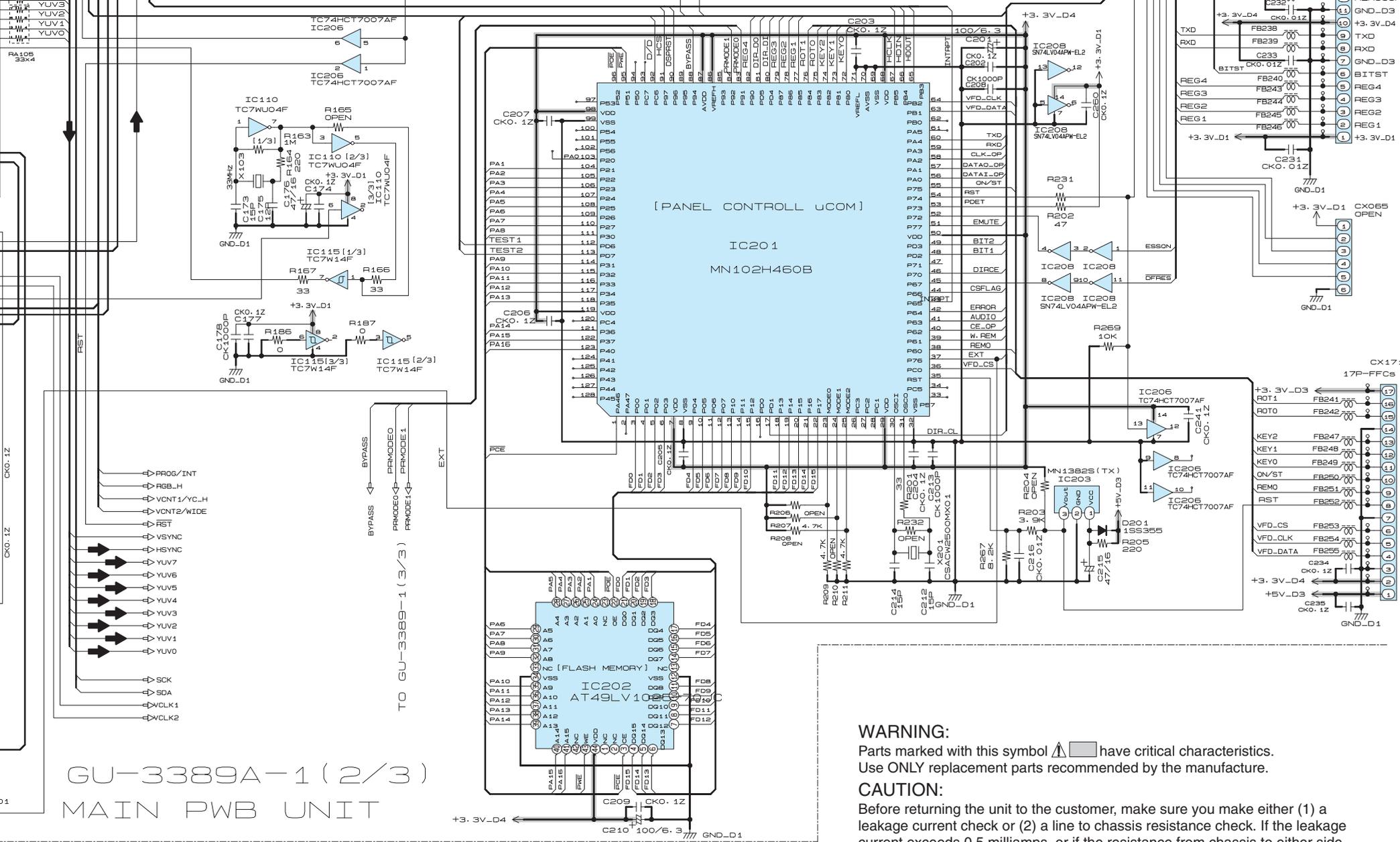
4

5





± B
 → SIG



GU-3389A-1 (2/3)
MAIN PWB UNIT

± B LINE
SIGNAL LINE

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 MEASURED 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.

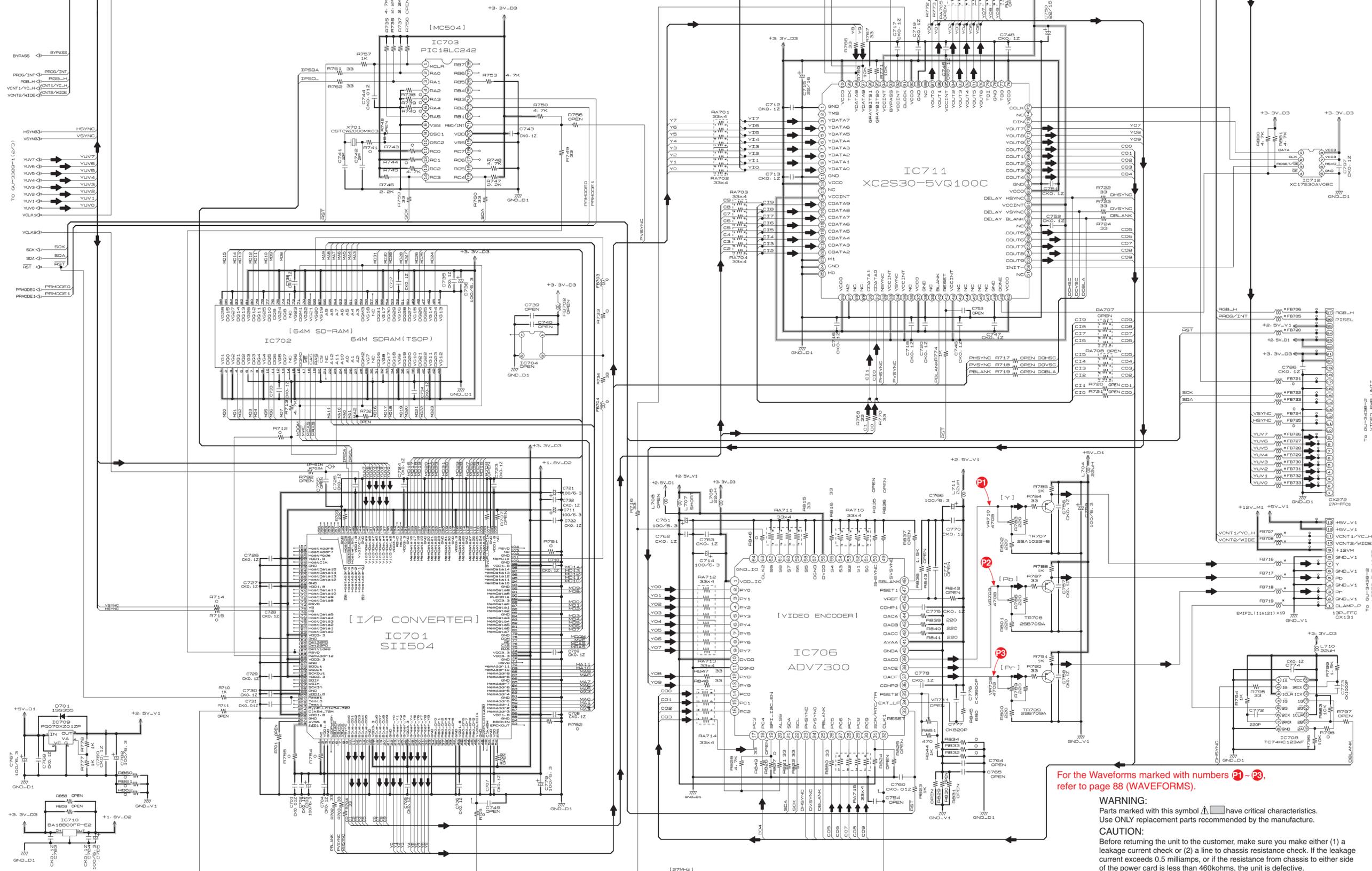
SCHEMATIC DIAGRAMS (2/8)
GU-3389A-1 MAIN UNIT(2/3)

TO GU-3439-2
DISPLAY UNIT

SCHEMATIC DIAGRAMS (3/8)

1 2 3 4 5 6 7 8 9 10 11

GU-3389A-1 (3/3)
MAIN PWB UNIT



For the Waveforms marked with numbers P1 - P3, refer to page 88 (WAVEFORMS).

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

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 MEASURED AT MO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

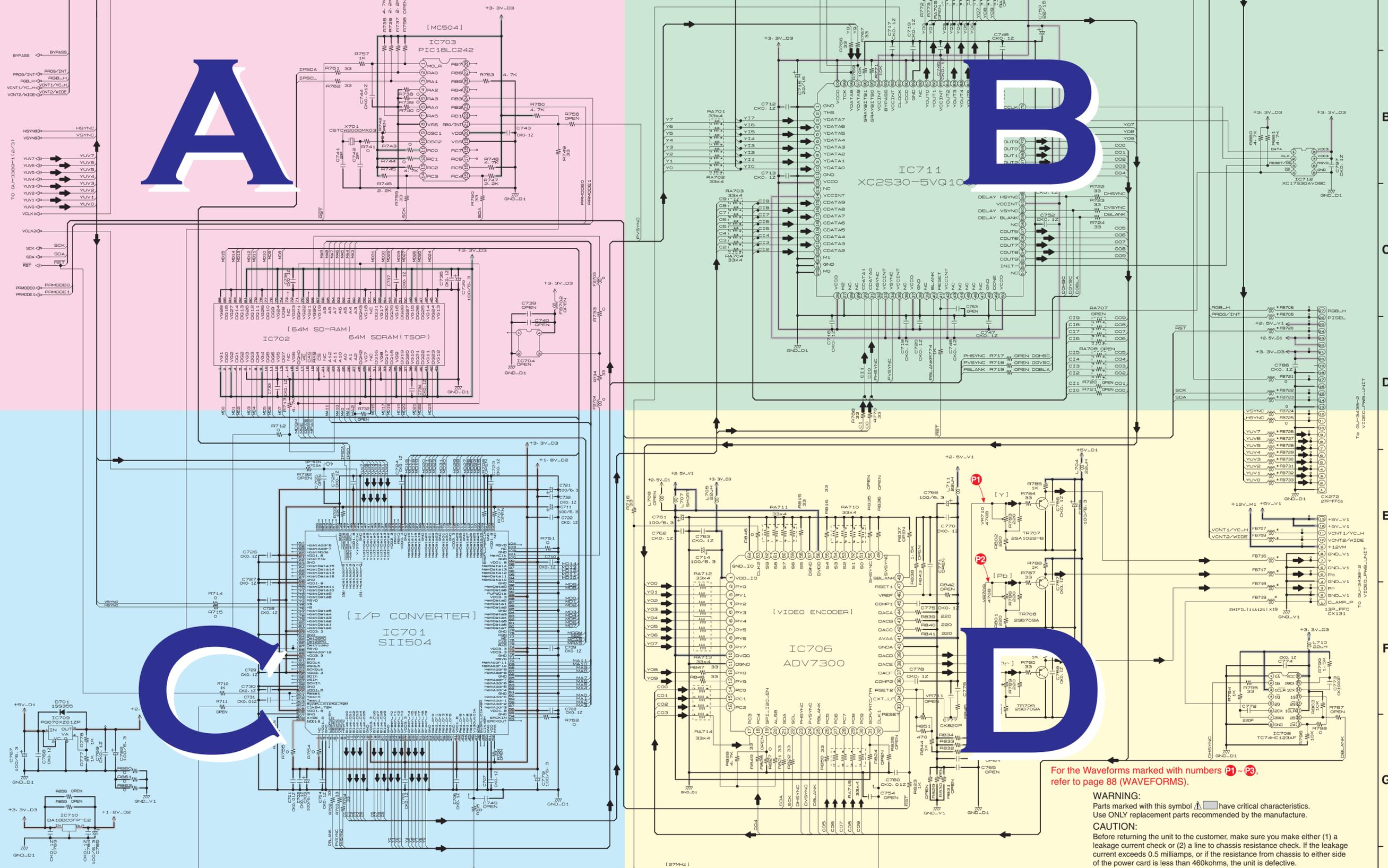
— ± B LINE
- - - SIGNAL LINE

SCHEMATIC DIAGRAMS (3/8)
GU-3389A-1 MAIN UNIT(3/3)

SCHEMATIC DIAGRAMS (3/8)

1 2 3 4 5 6 7 8 9 10 11

GU-3389A-1 (3/3)
MAIN PWB UNIT



A

B

C

D

For the Waveforms marked with numbers P1 - P3, refer to page 88 (WAVEFORMS).

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

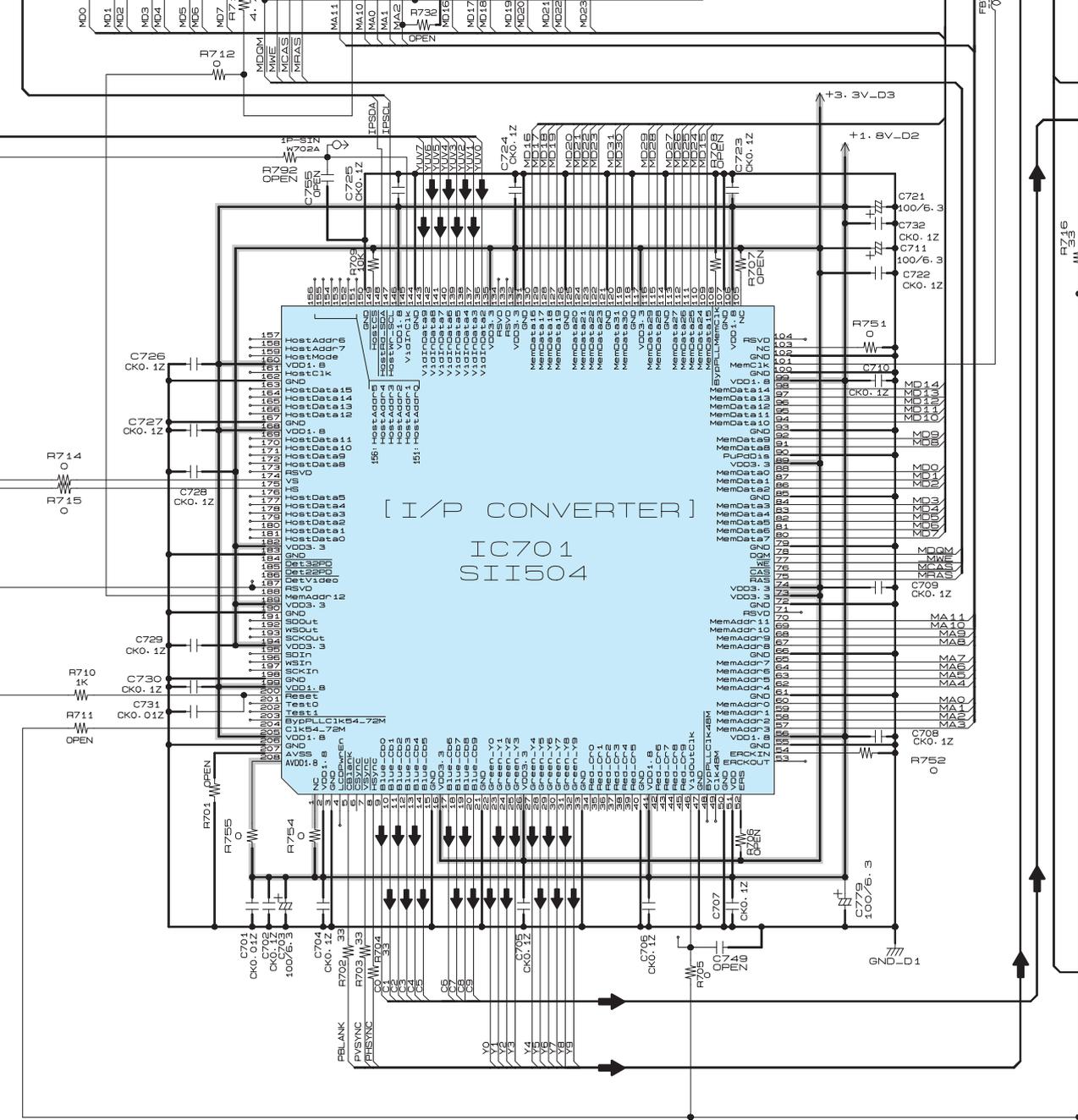
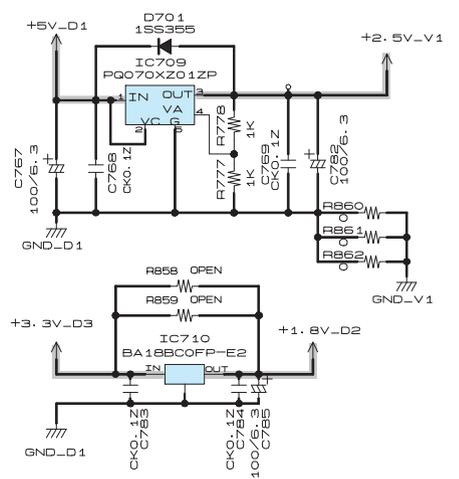
CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

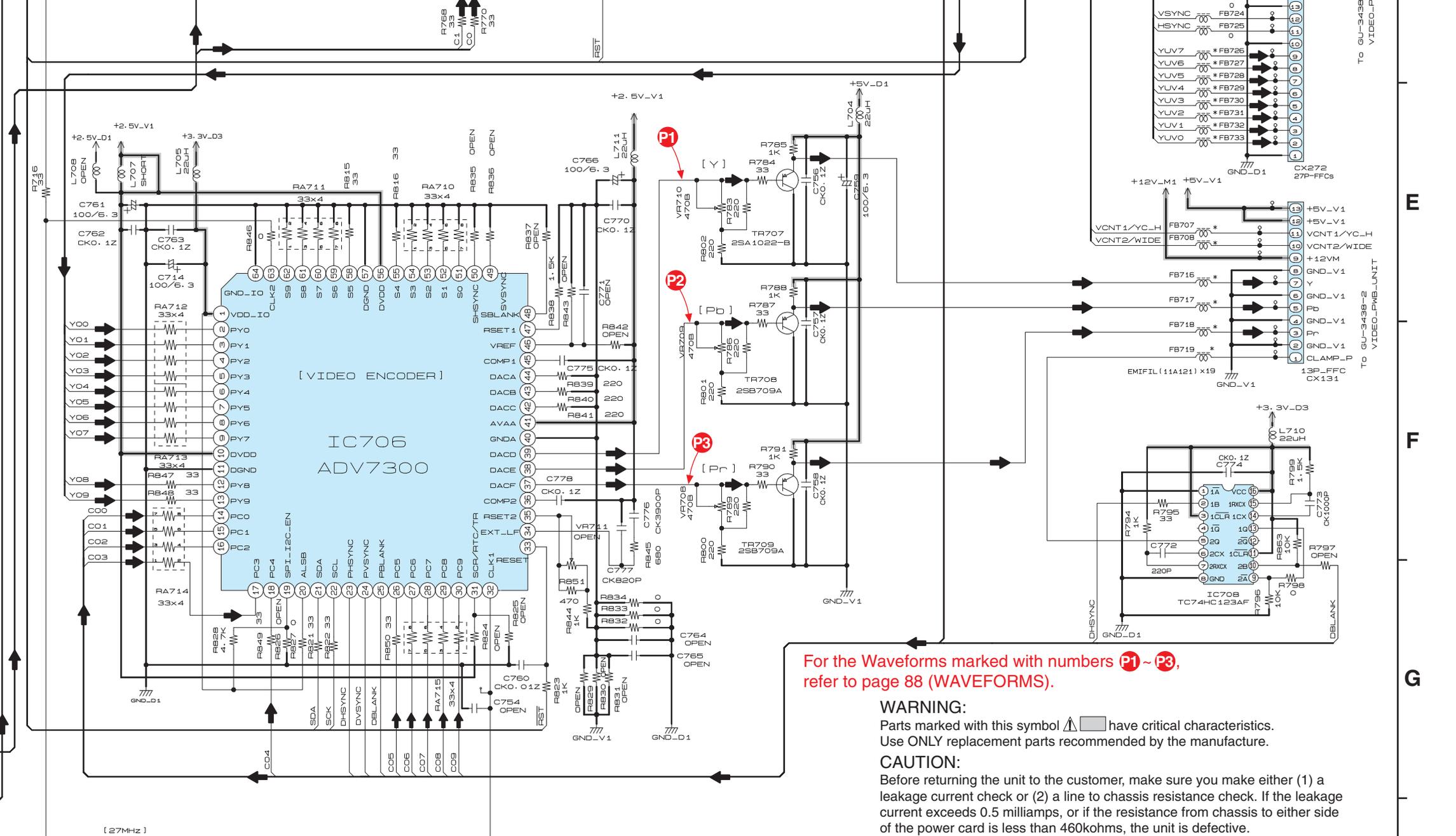
WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

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 MEASURED AT MO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

— ± B LINE
→ SIGNAL LINE

SCHEMATIC DIAGRAMS (3/8)
GU-3389A-1 MAIN UNIT(3/3)





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 MEASURED AT NO SIGNAL INPUT
 CONDITION.
 CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR
 NOTICE.

For the Waveforms marked with numbers P1 ~ P3,
 refer to page 88 (WAVEFORMS).

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

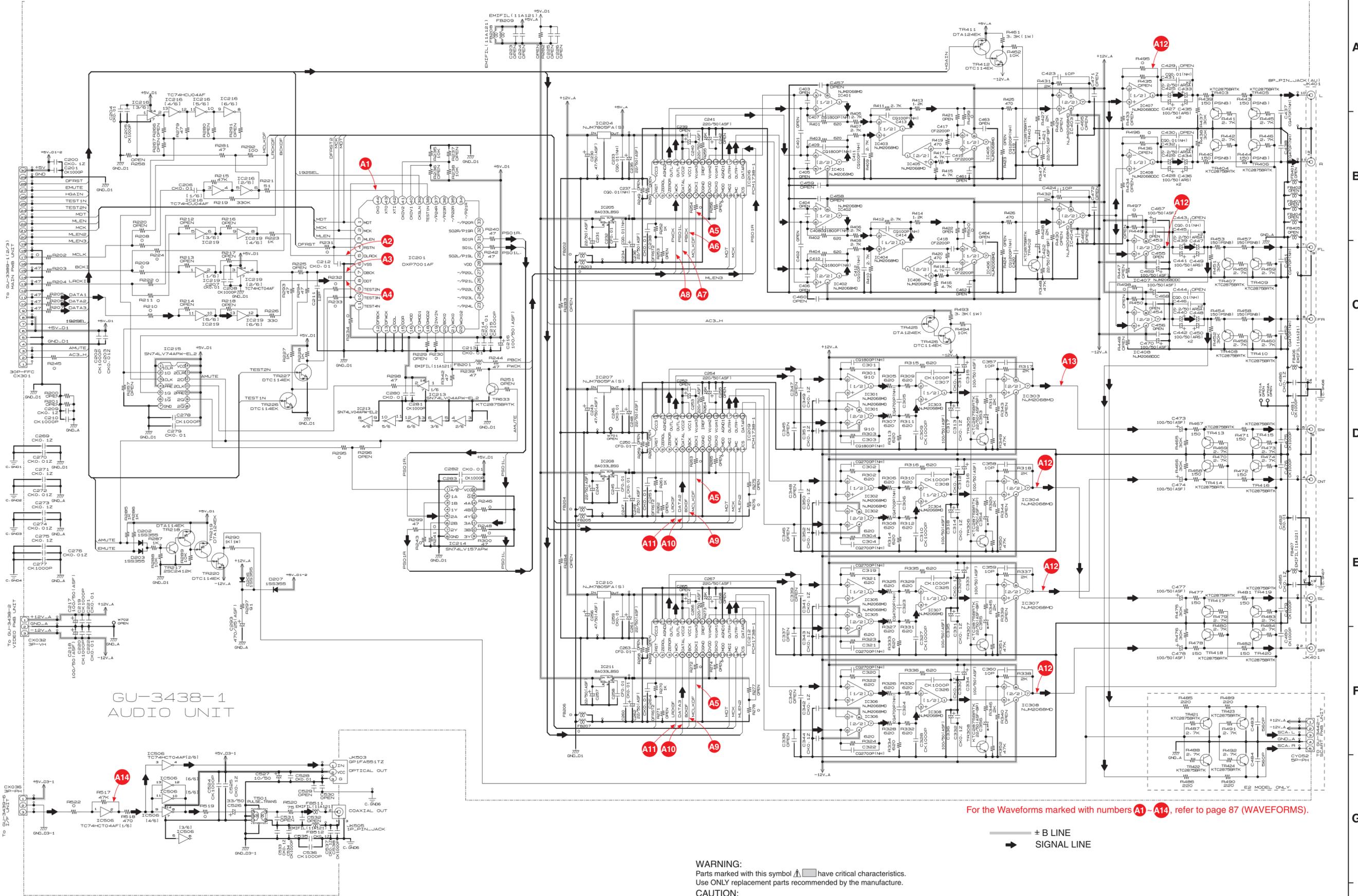
CAUTION:
 Before returning the unit to the customer, make sure you make either (1) a
 leakage current check or (2) a line to chassis resistance check. If the leakage
 current exceeds 0.5 milliamps, or if the resistance from chassis to either side
 of the power card is less than 460kohms, the unit is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

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

SCHEMATIC DIAGRAMS (3/8)
 GU-3389A-1 MAIN UNIT(3/3)

SCHMATIC DIAGRAMS (4/8)

1 2 3 4 5 6 7 8 9 10 11



GU-3438-1 AUDIO UNIT

For the Waveforms marked with numbers A1 - A14, refer to page 87 (WAVEFORMS).

Legend for B LINE and SIGNAL LINE

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

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.

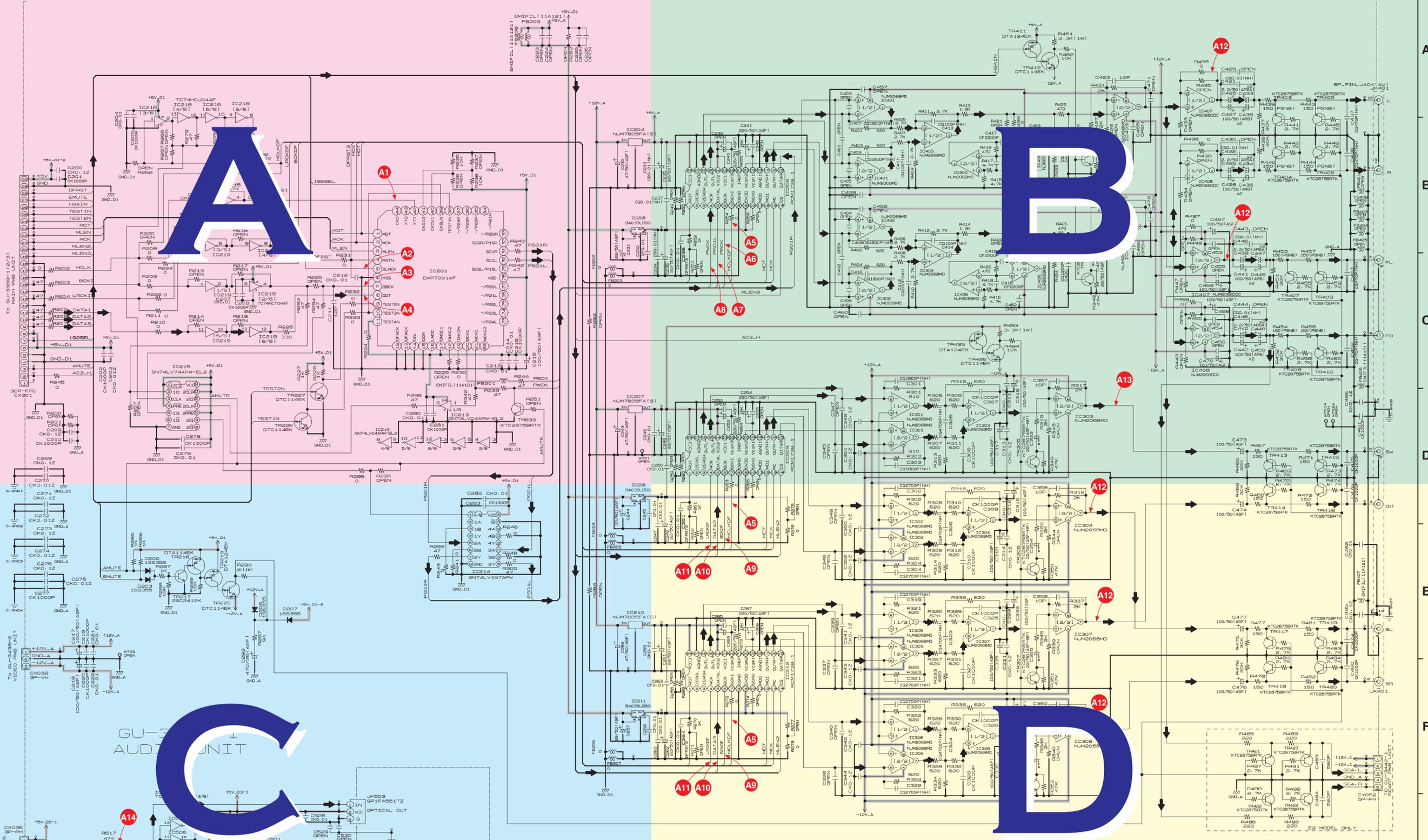
WARNING: DO NOT return the unit to the customer until the problem is located and corrected.

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 MEASURED AT MO SIGNAL INPUT CONDITION. CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

SCHMATIC DIAGRAMS (4/8) GU-3438-1 AUDIO UNIT

SCHMATIC DIAGRAMS (4/8)

1 2 3 4 5 6 7 8 9 10 11



For the Waveforms marked with numbers A1 - A14, refer to page 87 (WAVEFORMS).

— +B LINE
 — SIGNAL LINE

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

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 millamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

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 MEASURED AT NO SIGNAL INPUT CONDITION.
 CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

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

SCHMATIC DIAGRAMS (4/8)
 GU-3438-1 AUDIO UNIT

SCHEMATIC DIAGRAMS (4/8)

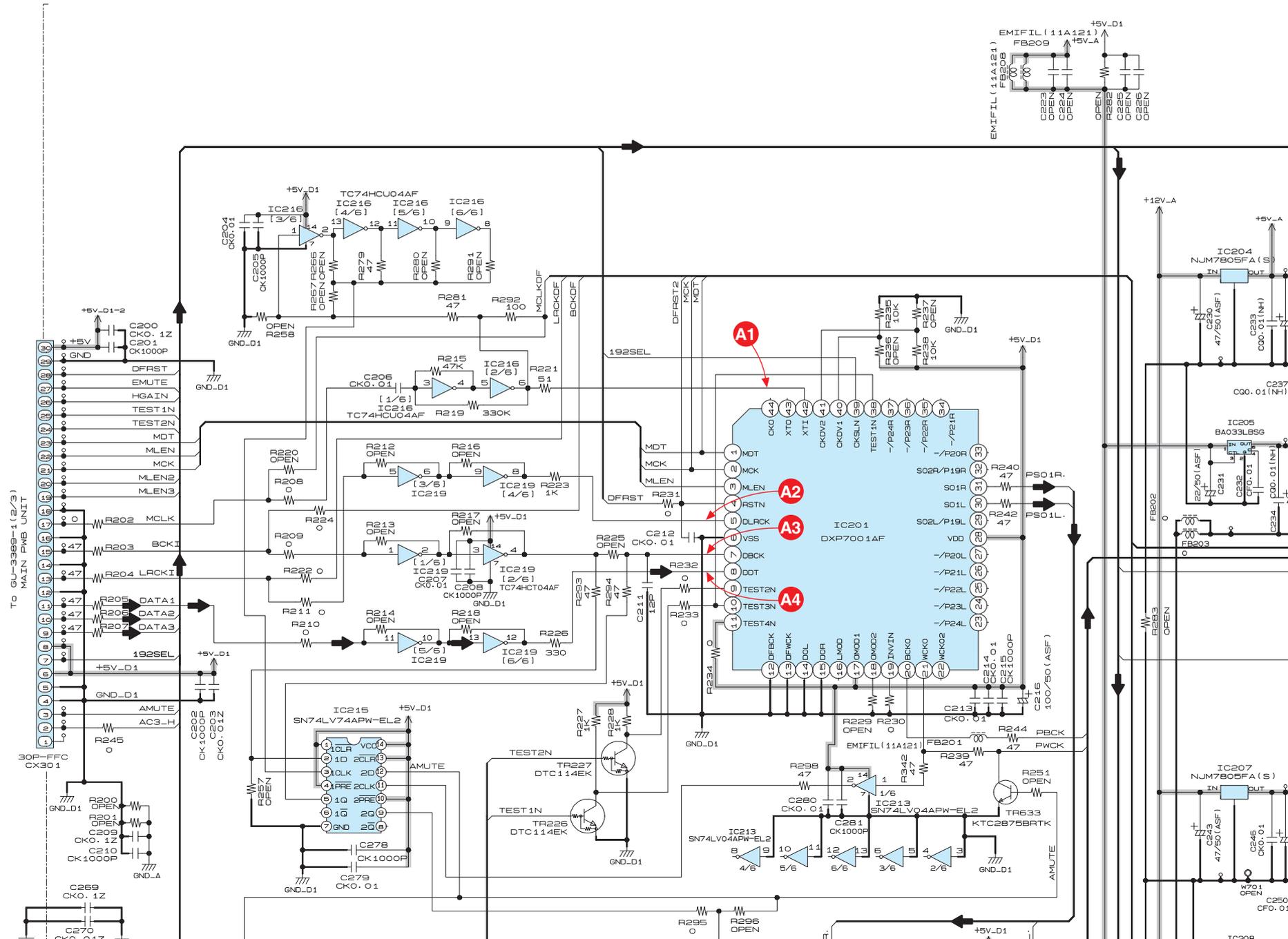
1

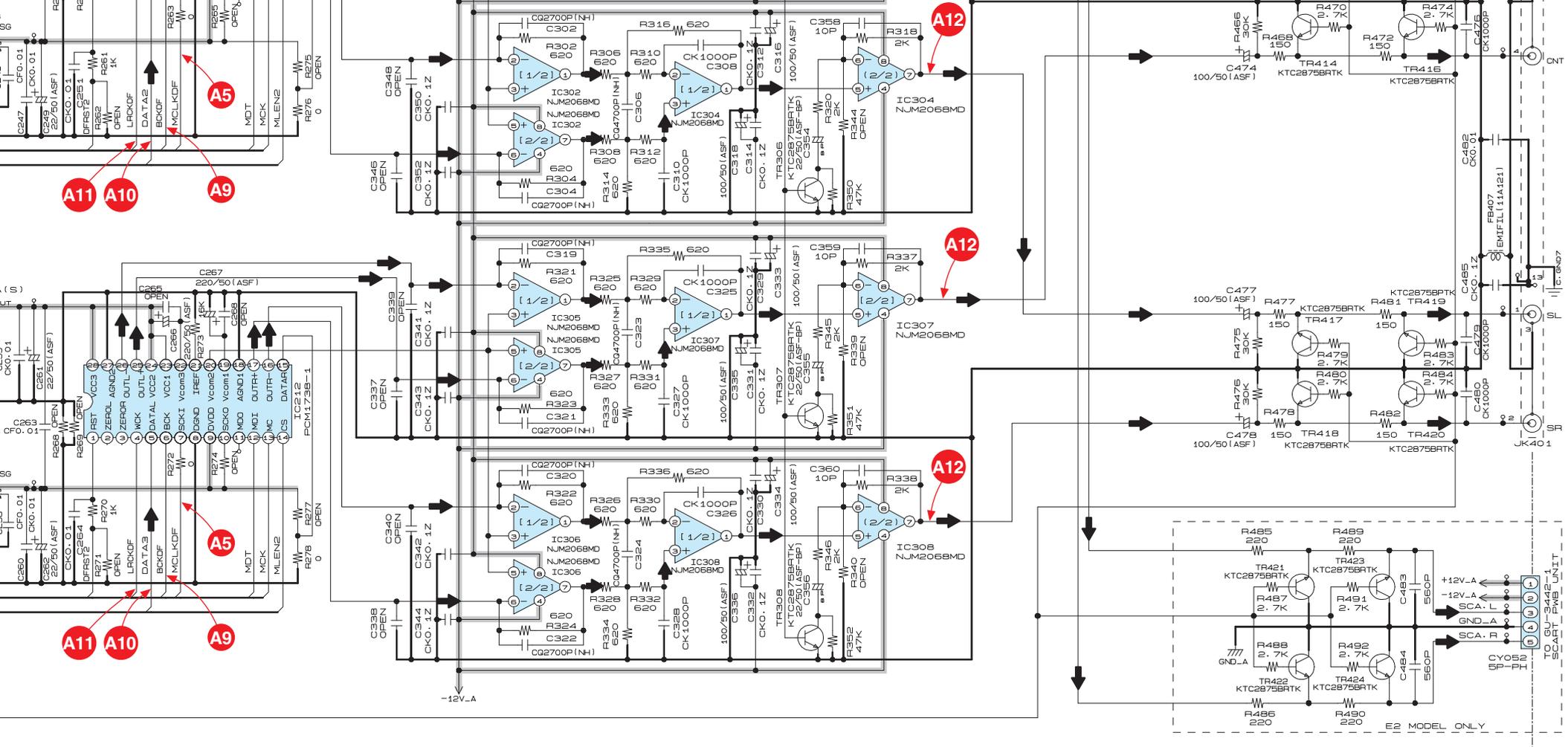
2

3

4

5





For the Waveforms marked with numbers A1 ~ A14, refer to page 87 (WAVEFORMS).



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

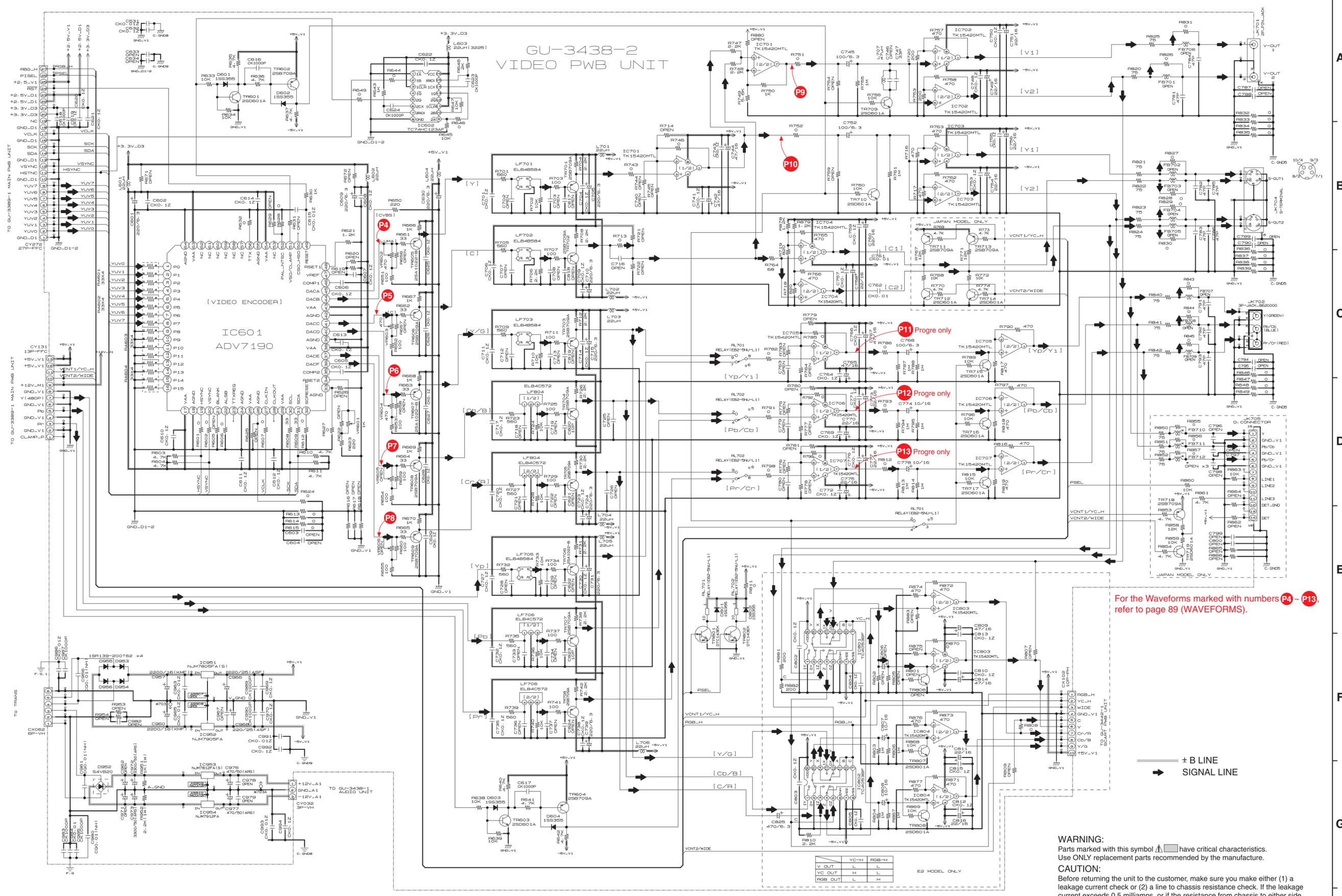
CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamperes, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

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

SCHEMATIC DIAGRAMS (4/8)
GU-3438-1 AUDIO UNIT

SCHEMATIC DIAGRAMS (5/8)

1 2 3 4 5 6 7 8 9 10 11



GU-3438-2 VIDEO PWB UNIT

For the Waveforms marked with numbers P4 ~ P13, refer to page 89 (WAVEFORMS).

± B LINE
→ SIGNAL LINE

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

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 millamps, 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.

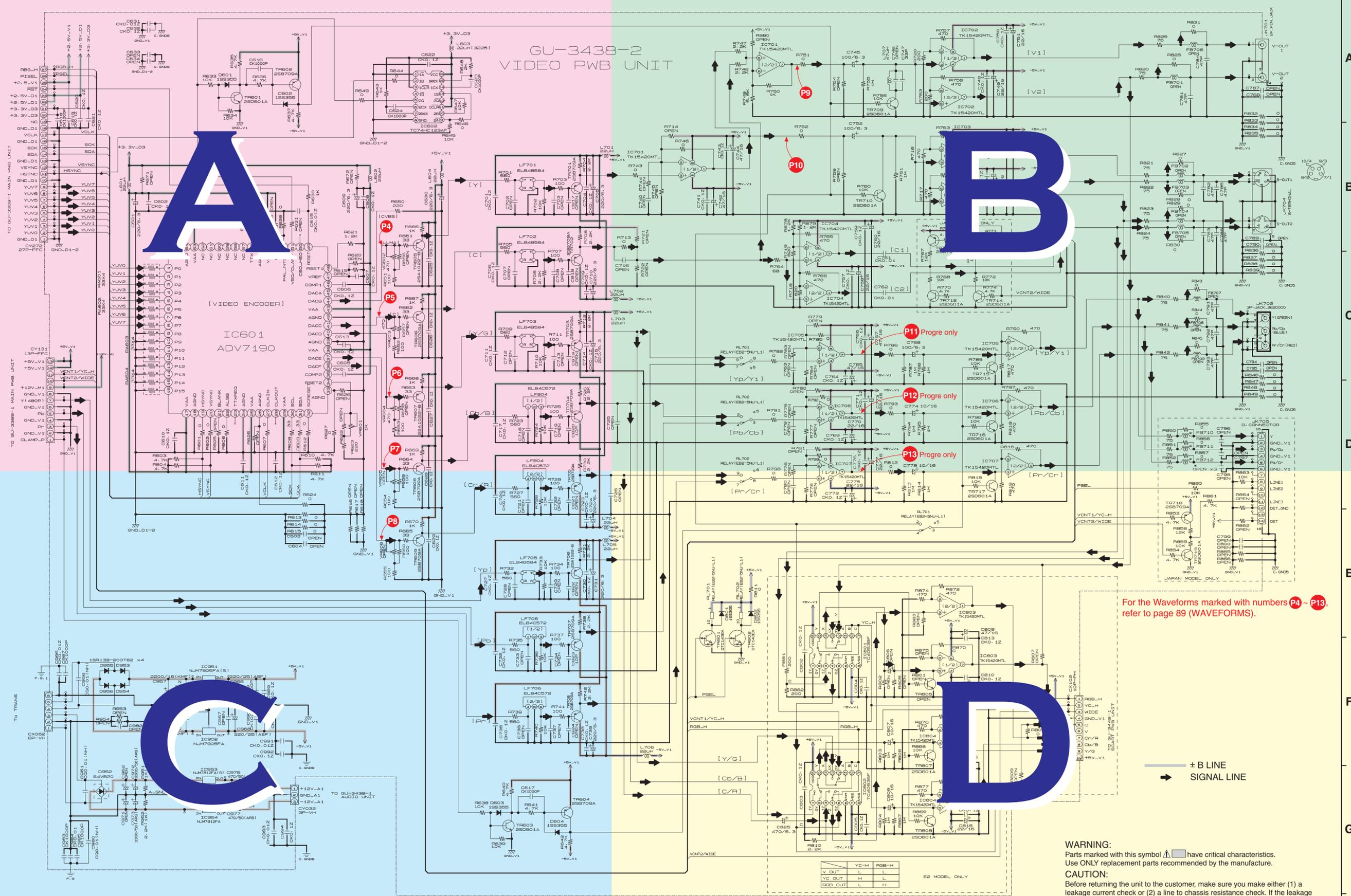
NOTICE
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT MO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

SCHEMATIC DIAGRAMS (5/8)
GU-3438-2 VIDEO UNIT

SCHEMATIC DIAGRAMS (5/8)

1 2 3 4 5 6 7 8 9 10 11

GU-3438-2 VIDEO PWB UNIT



For the Waveforms marked with numbers P4 ~ P13, refer to page 89 (WAVEFORMS).

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

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 MEASURED AT MO SIGNAL INPUT CONDITION. CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

6

7

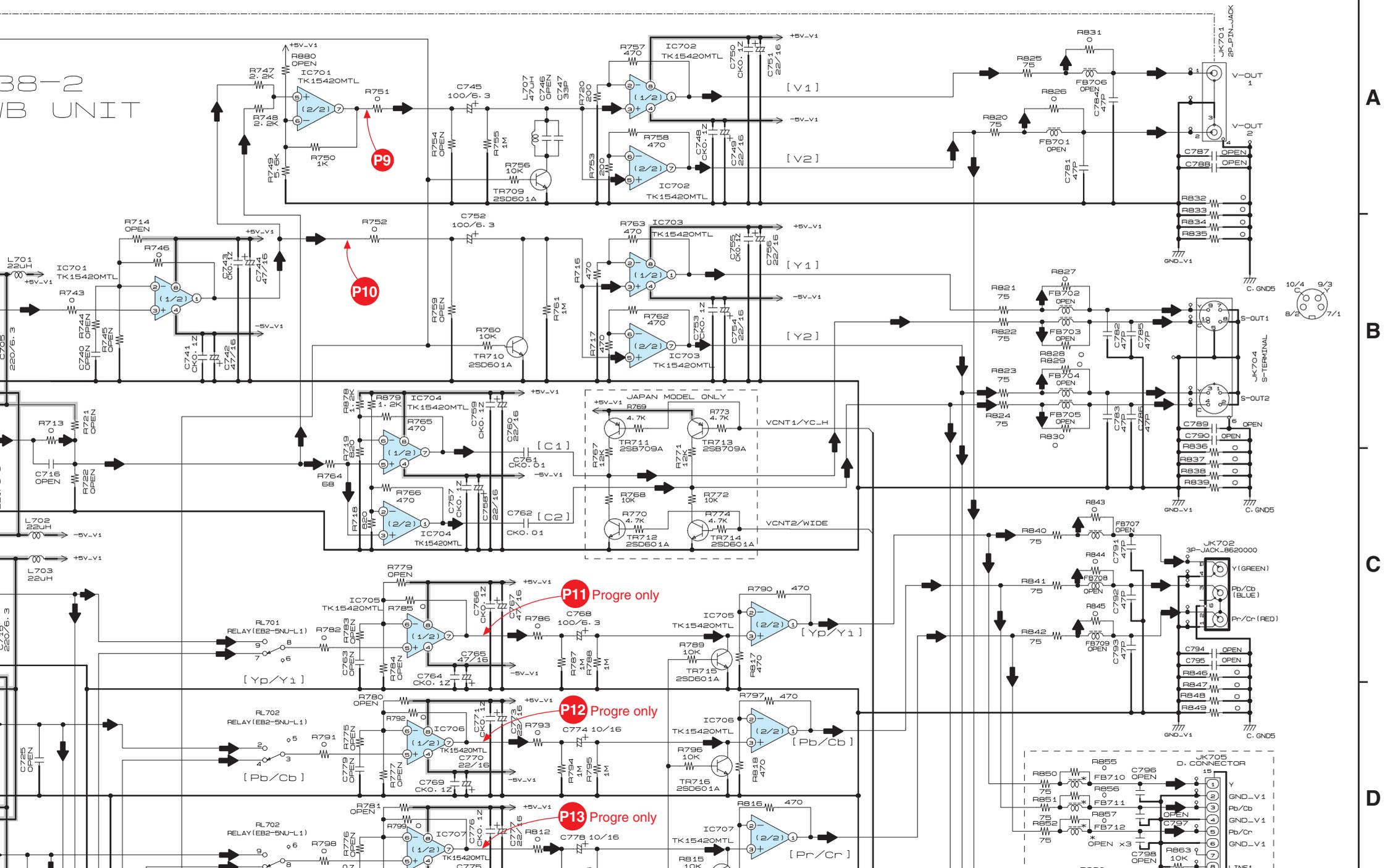
8

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10

11

380-2
WB UNIT

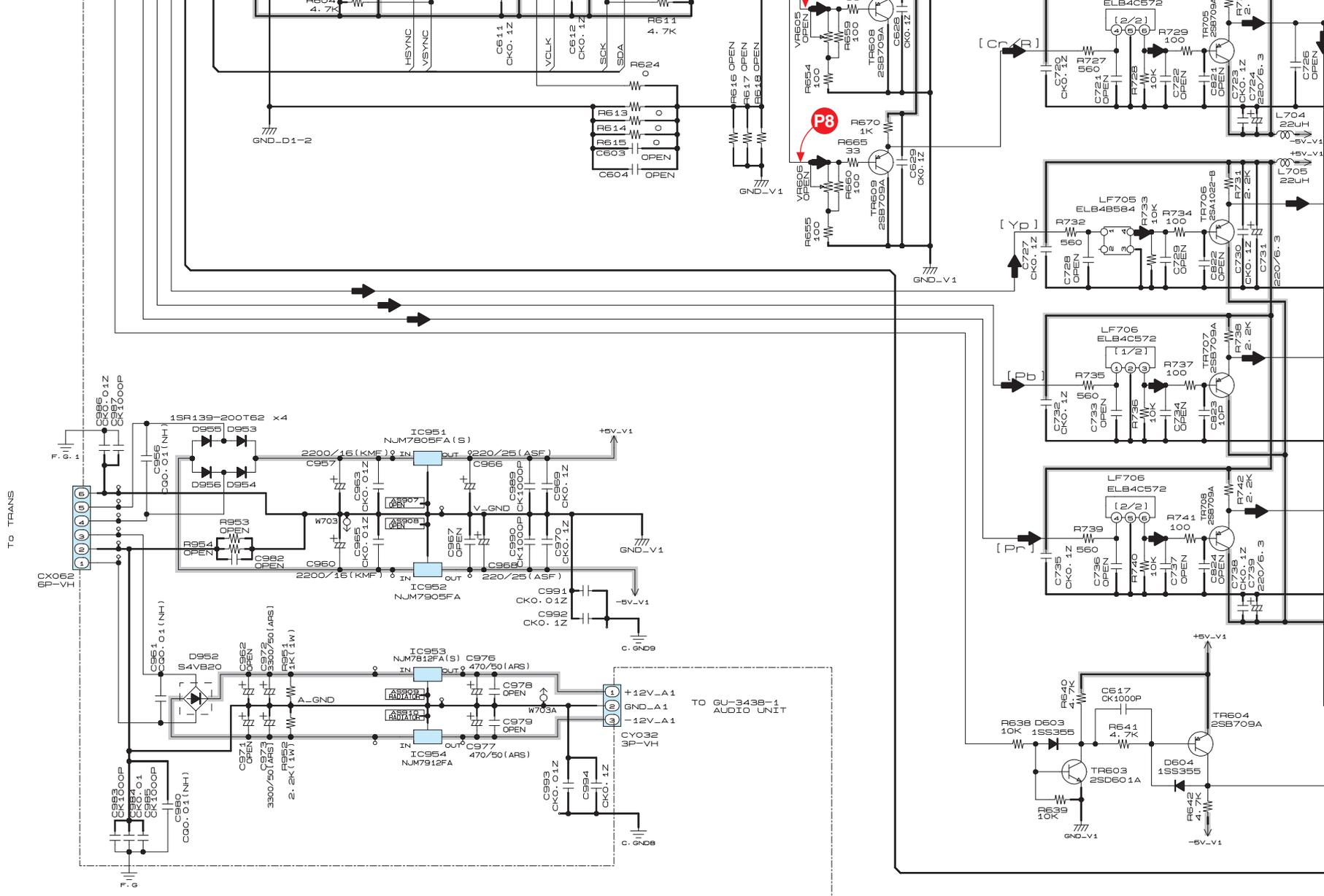


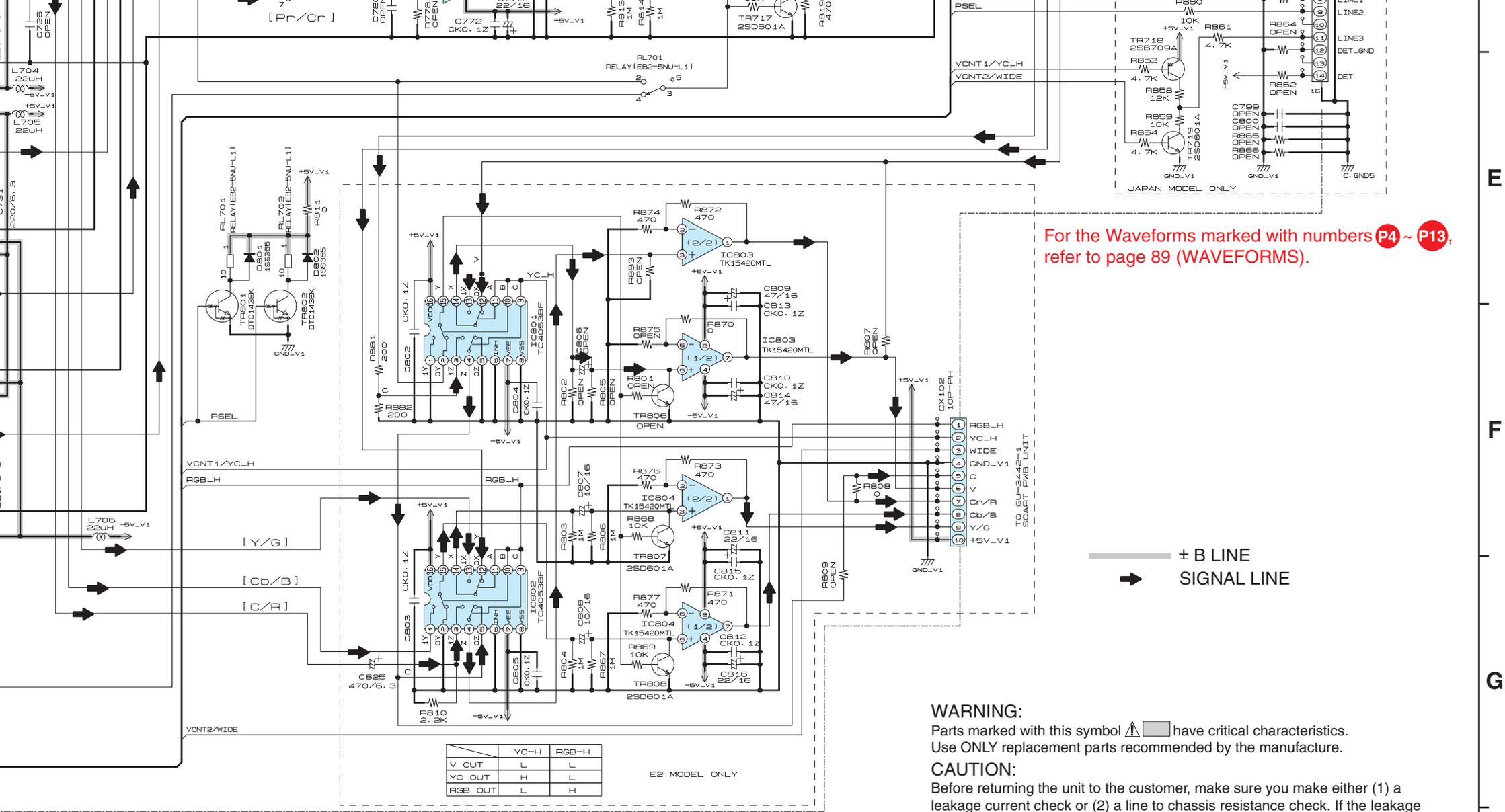
A

B

C

D





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 MEASURED AT MO SIGNAL INPUT
 CONDITION.
 CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR
 NOTICE.

	YC-H	RGB-H
V OUT	L	L
YC OUT	H	L
RGB OUT	L	H

E2 MODEL ONLY

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.

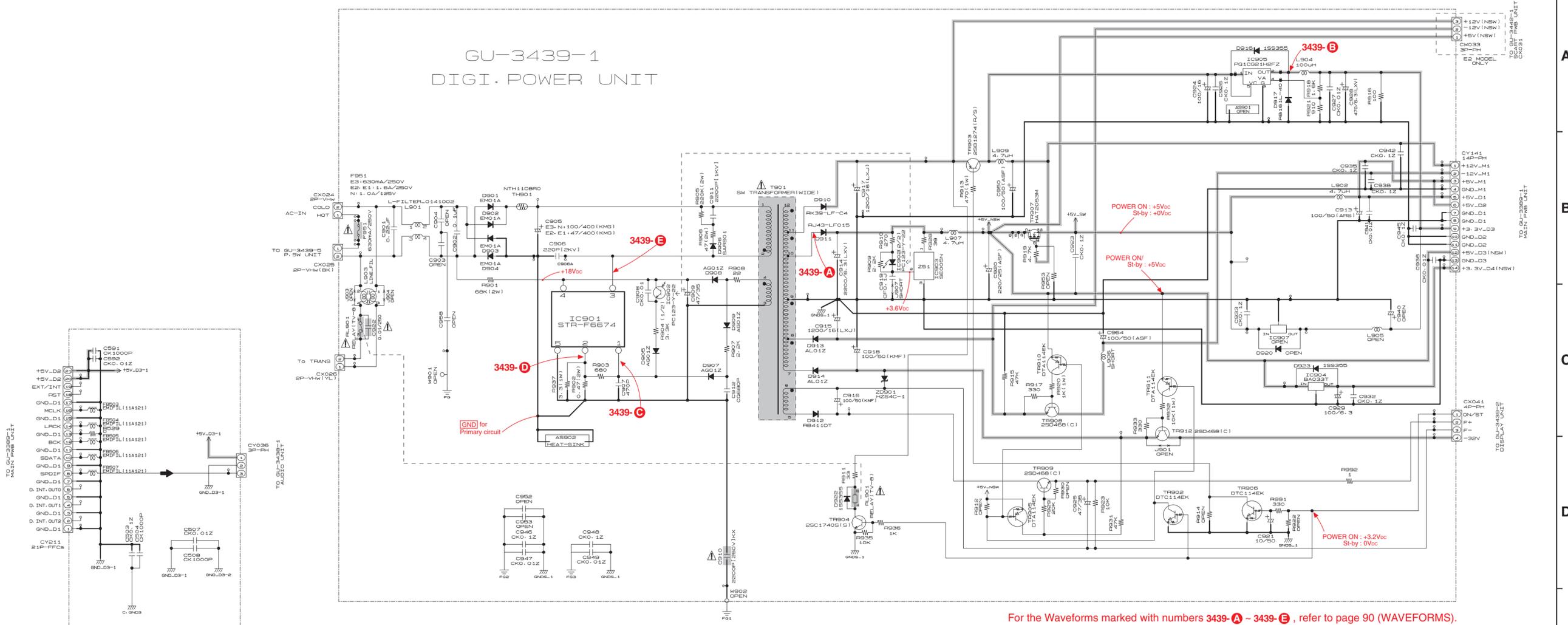
WARNING:
 DO NOT return the unit to the customer until the problem is located and corrected.

SCHEMATIC DIAGRAMS (5/8)
GU-3438-2 VIDEO UNIT

SCHEMATIC DIAGRAMS (6/8)

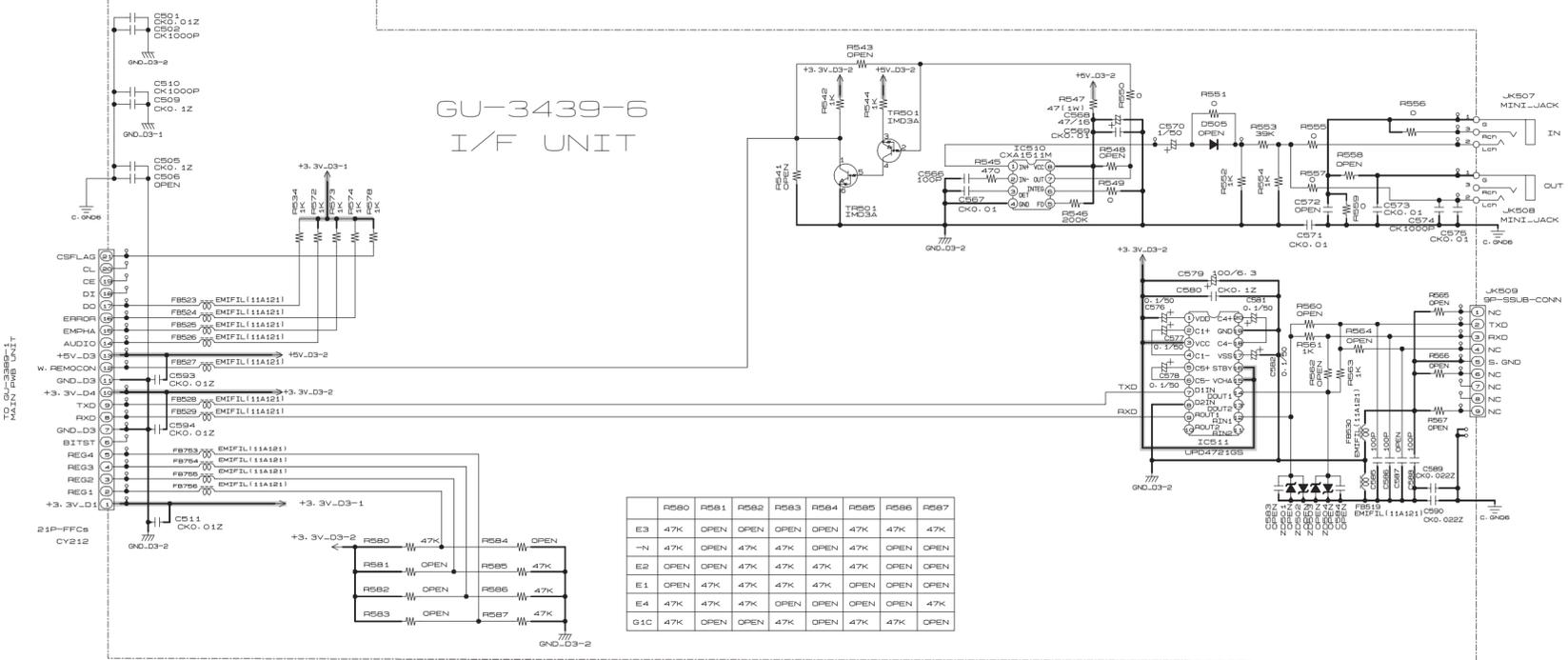
1 2 3 4 5 6 7 8 9 10 11

GU-3439-1 DIGI. POWER UNIT



For the Waveforms marked with numbers 3439-A ~ 3439-E, refer to page 90 (WAVEFORMS).

GU-3439-6 I/F UNIT



R580	R581	R582	R583	R584	R585	R586	R587
E3	47K	OPEN	OPEN	OPEN	47K	47K	47K
-N	47K	OPEN	47K	47K	47K	OPEN	OPEN
E1	OPEN	47K	47K	47K	47K	OPEN	OPEN
E4	47K	47K	47K	OPEN	OPEN	OPEN	47K
G1C	47K	OPEN	OPEN	47K	OPEN	47K	OPEN

± B LINE
→ SIGNAL LINE

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 MEASURED 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 manufacturer.

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 millamps, 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.

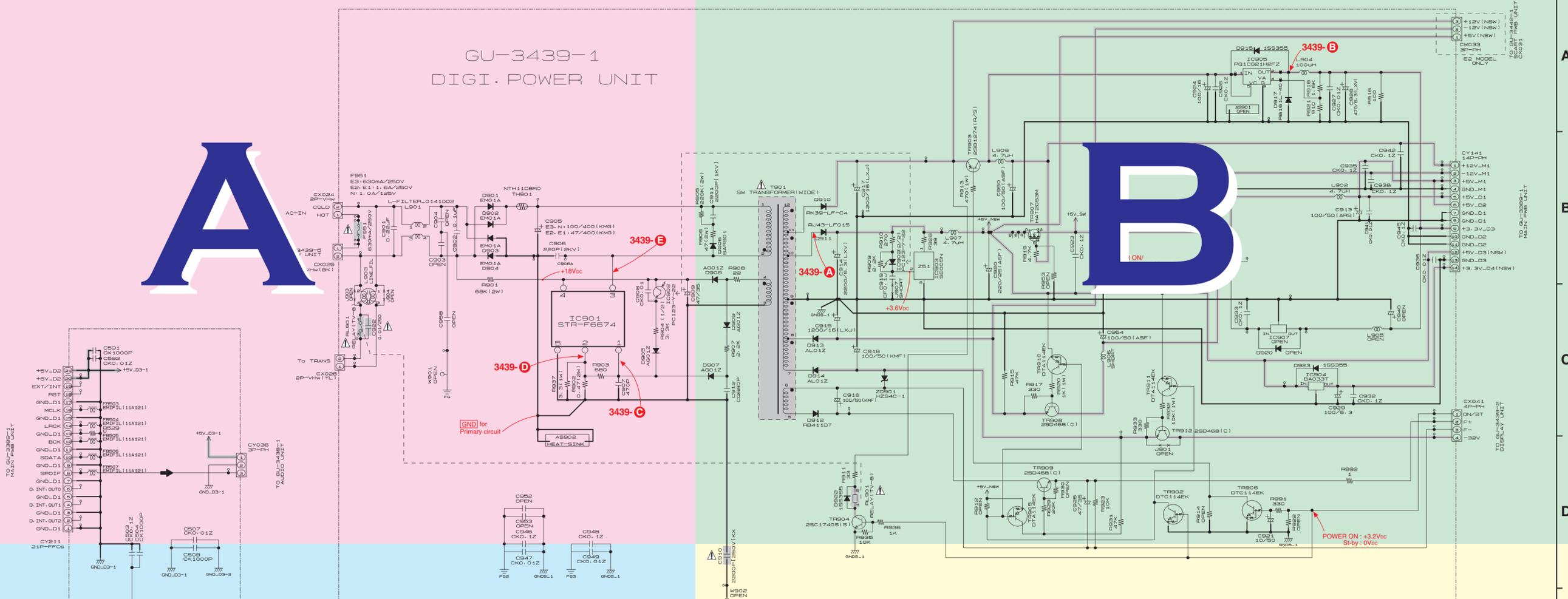
SCHEMATIC DIAGRAMS (6/8)
GU-3439-1 DIGI. POWER UNIT
GU-3439-6 I/F UNIT

SCHEMATIC DIAGRAMS (6/8)

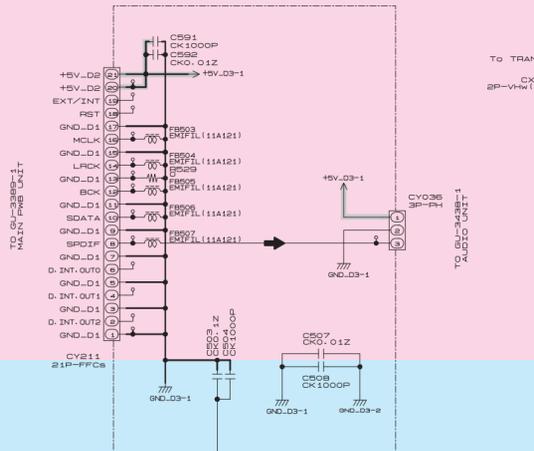
1 2 3 4 5 6 7 8 9 10 11

A

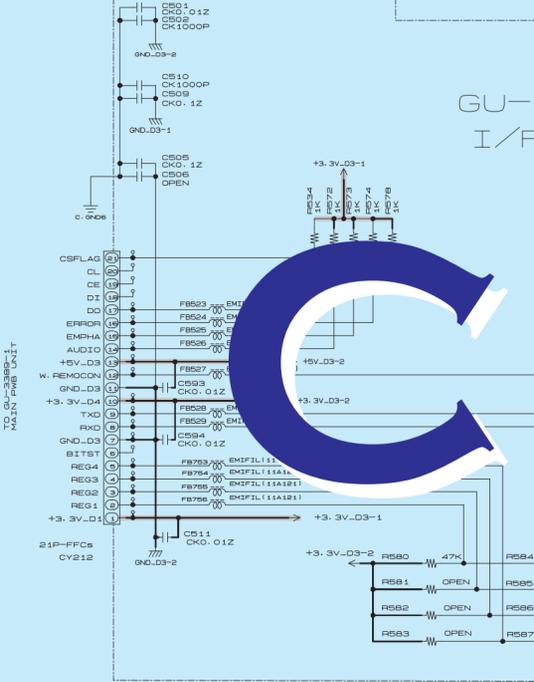
GU-3439-1
DIGI. POWER UNIT



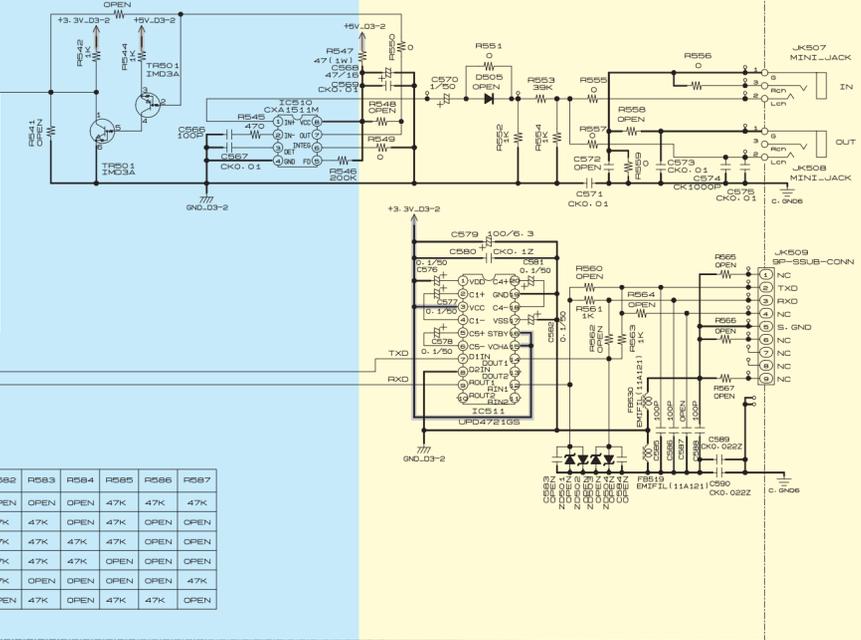
B



For the Waveforms marked with numbers 3439-A ~ 3439-E, refer to page 90 (WAVEFORMS).



GU-3439-6
I/F UNIT



D

R580	R581	R582	R583	R584	R585	R586	R587
E3	47K	OPEN	OPEN	OPEN	47K	47K	47K
-N	47K	OPEN	47K	47K	47K	OPEN	OPEN
E2	OPEN	OPEN	47K	47K	47K	OPEN	OPEN
E1	OPEN	47K	47K	47K	OPEN	OPEN	OPEN
E4	47K	47K	47K	OPEN	OPEN	OPEN	47K
G1C	47K	OPEN	OPEN	47K	OPEN	47K	OPEN

± B LINE SIGNAL LINE

NO AL...

ANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
 ANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
 AGE AND CURRENT ARE MEASURED AT MO SIGNAL INPUT
 N.
 T 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 manufacturer.

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 millamps, 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 (6/8)
GU-3439-1 DIGI. POWER UNIT
GU-3439-6 I/F UNIT

SCHEMATIC DIAGRAMS (6/8)

1

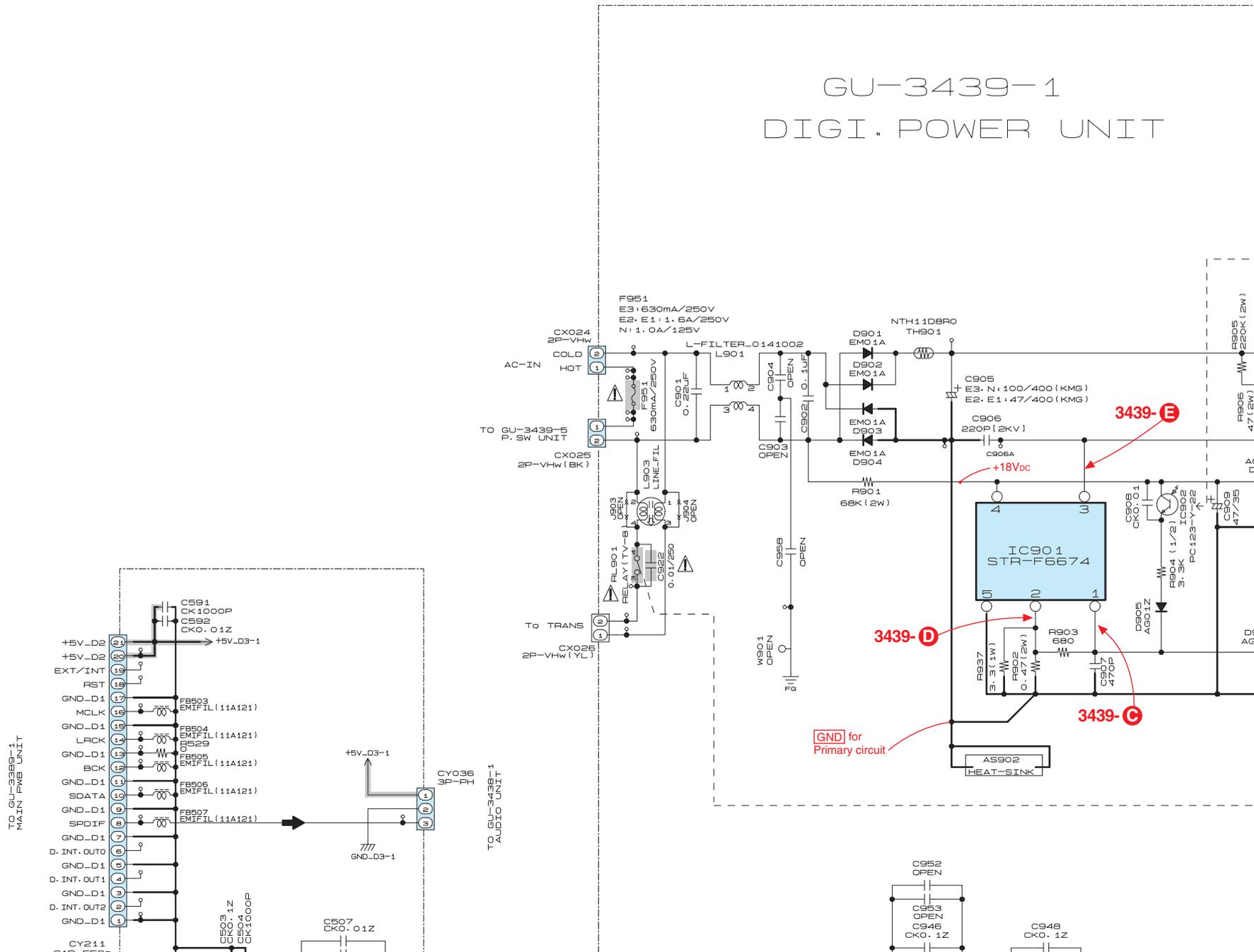
2

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GU-3439-1 DIGI. POWER UNIT



6

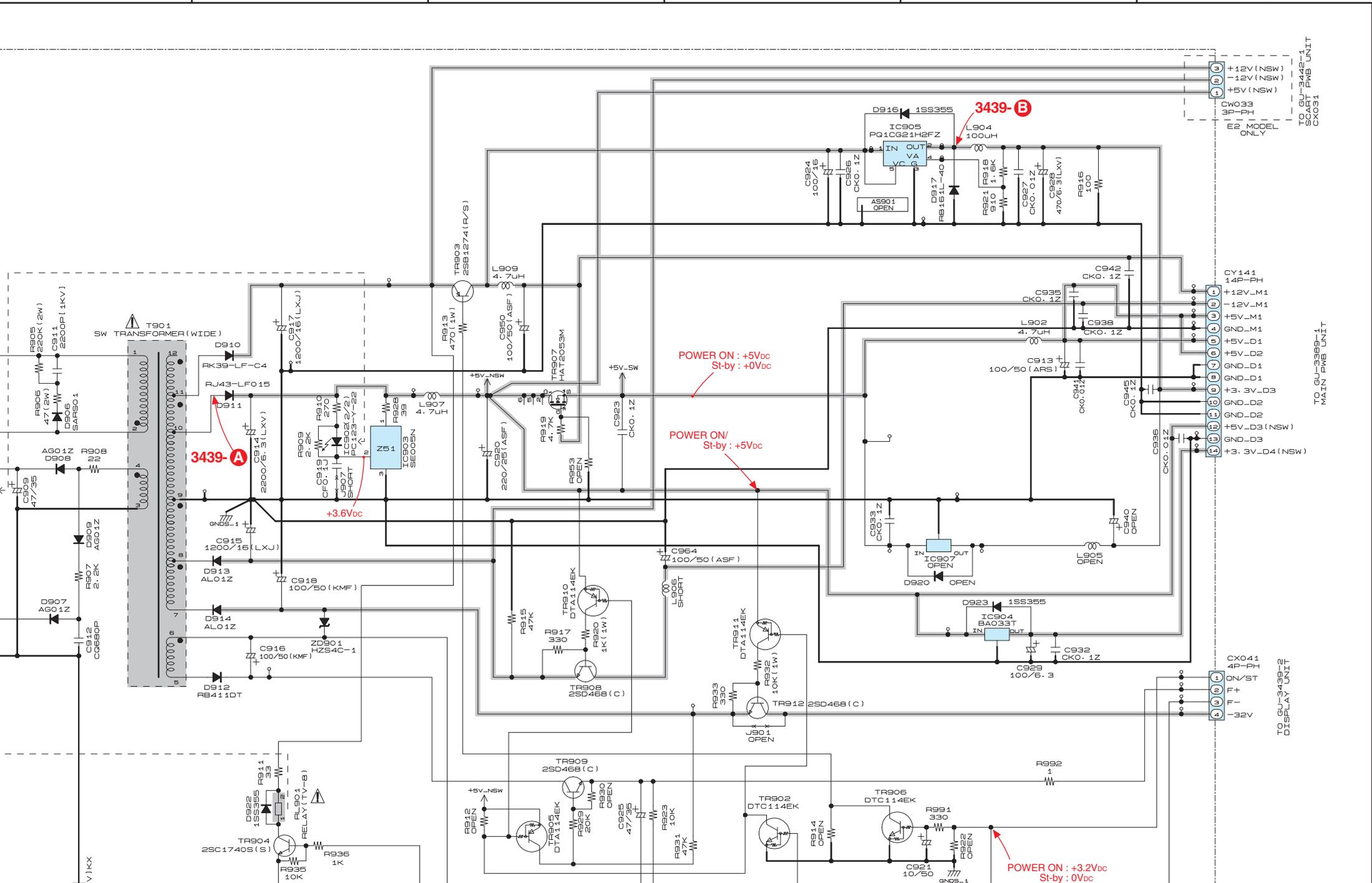
7

8

9

10

11



A

B

C

D

3439-A

3439-B

POWER ON : +5Vdc
St-by : +0Vdc

POWER ON/
St-by : +5Vdc

POWER ON : +3.2Vdc
St-by : 0Vdc

① +12V (NSW)
 ② -12V (NSW)
 ③ +5V (NSW)
 CWO33
 3P-PH
 ER MODEL
 ONLY
 TO GU-3442-1
 SCART PWB UNIT
 CX031

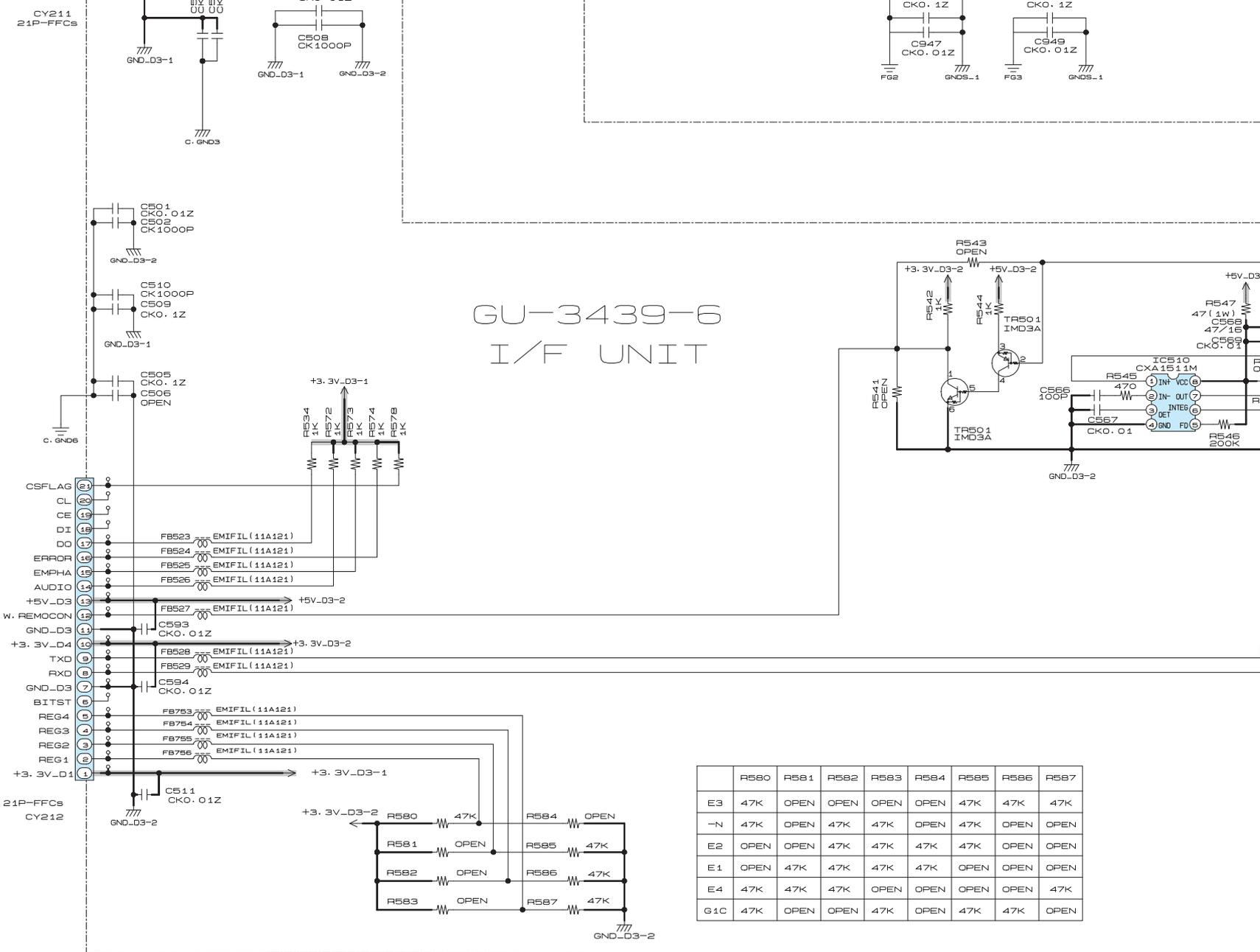
④ CY141
 14P-PH
 ⑤ +12V_M1
 ⑥ -12V_M1
 ⑦ +5V_M1
 ⑧ +5V_D1
 ⑨ +5V_D2
 ⑩ GND_D1
 ⑪ GND_D2
 ⑫ +3.3V_D3
 ⑬ GND_D3
 ⑭ +5V_D3 (NSW)
 ⑮ GND_D3
 ⑯ +3.3V_D4 (NSW)

⑰ CX041
 4P-PH
 ON/ST
 F+
 F-
 -32V
 TO GU-3439-2
 DISPLAY UNIT

TO GU-3389-1
MAIN PWB UNIT

CY211
21P-FFCs

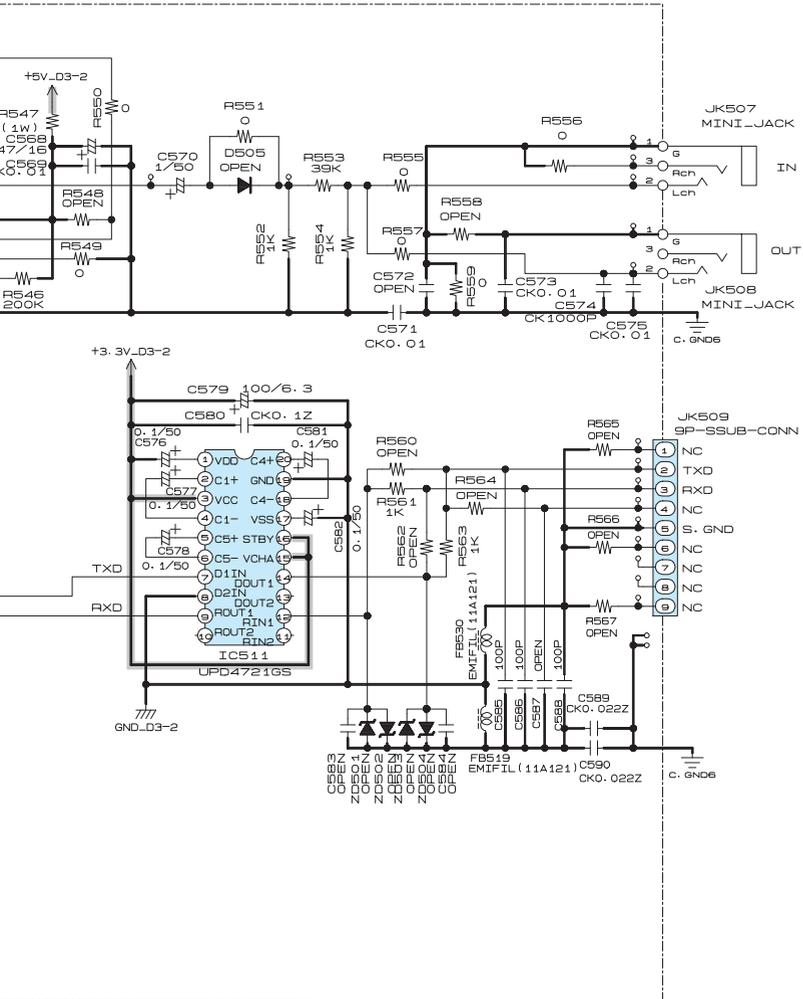
TO GU-3439-6
MAIN PWB UNIT



GU-3439-6 I/F UNIT

	R580	R581	R582	R583	R584	R585	R586	R587
E3	47K	OPEN	OPEN	OPEN	OPEN	47K	47K	47K
-N	47K	OPEN	47K	47K	OPEN	47K	OPEN	OPEN
E2	OPEN	OPEN	47K	47K	47K	47K	OPEN	OPEN
E1	OPEN	47K	47K	47K	47K	OPEN	OPEN	OPEN
E4	47K	47K	47K	OPEN	OPEN	OPEN	OPEN	47K
G1C	47K	OPEN	OPEN	47K	OPEN	47K	47K	OPEN

For the Waveforms marked with numbers 3439-**A** ~ 3439-**E** , refer to page 90 (WAVEFORMS).



— ± B LINE
 → SIGNAL LINE

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 MEASURED AT NO SIGNAL INPUT
 CONDITION.
 CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR
 NOTICE.

WARNING:

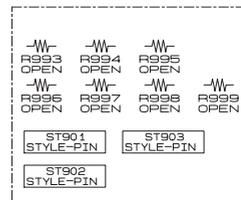
Parts marked with this symbol have critical characteristics.
 Use ONLY replacement parts recommended by the manufacture.

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 (6/8)
 GU-3439-1 DIGI. POWER UNIT
 GU-3439-6 I/F UNIT

E

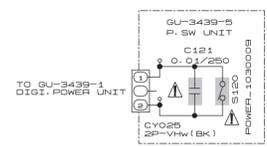
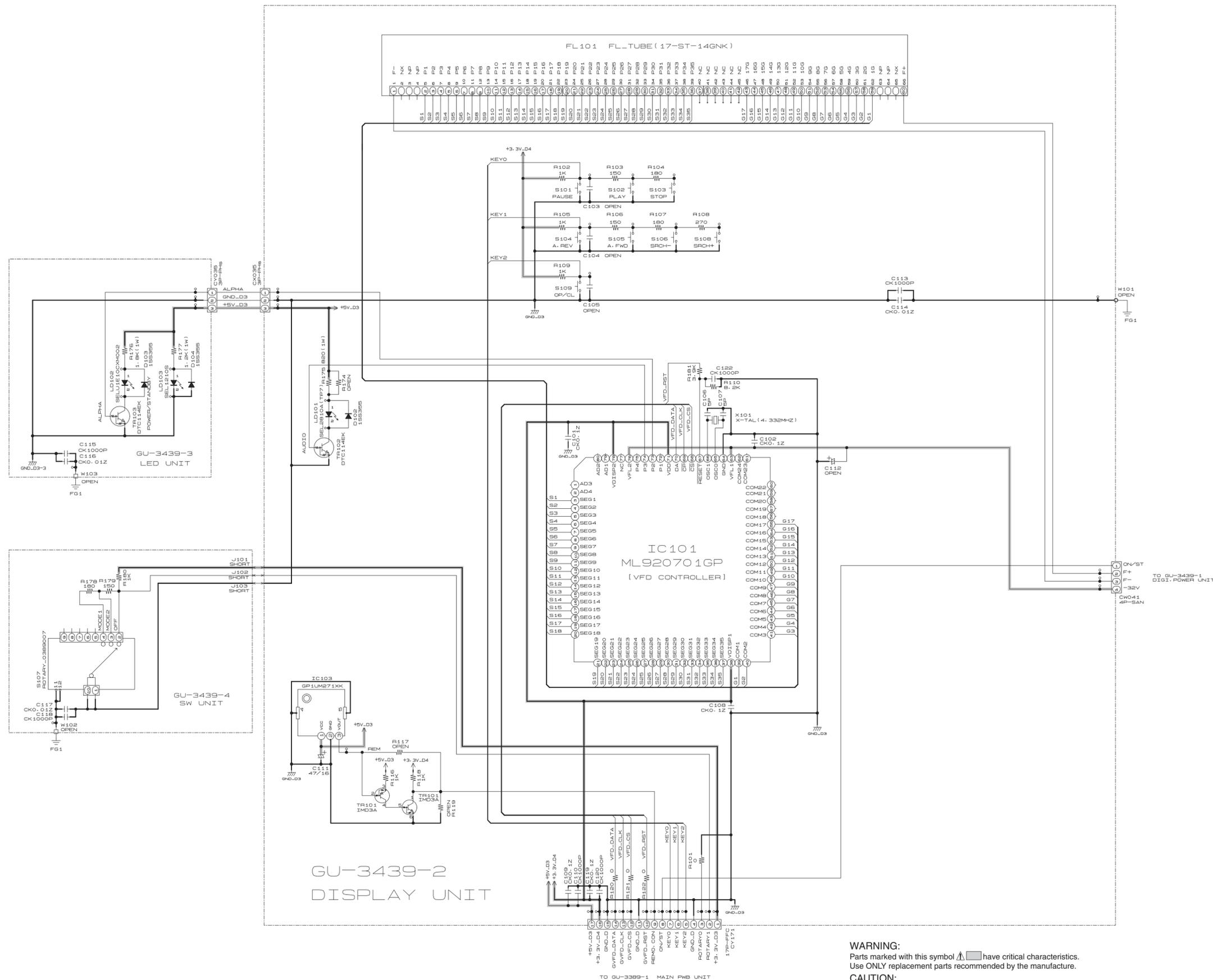
F

G

H

SCHEMATIC DIAGRAMS (7/8)

1 2 3 4 5 6 7 8 9 10 11



± B LINE
 → SIGNAL LINE

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 MEASURED 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.

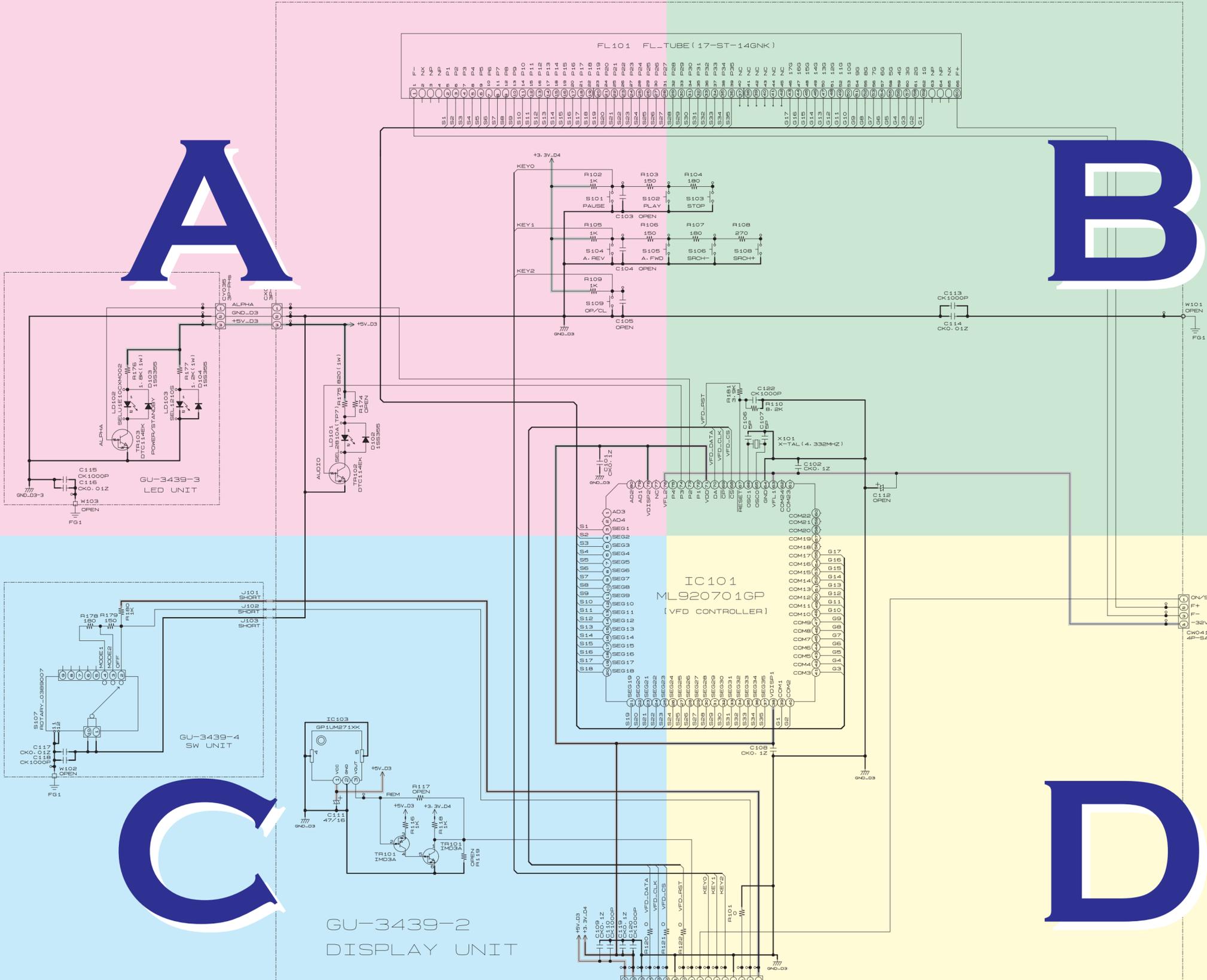
CAUTION:
 Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

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

SCHEMATIC DIAGRAMS (7/8)
 GU-3439-2 DISPLAY UNIT
 GU-3439-3 LED UNIT
 GU-3439-4 SW UNIT
 GU-3439-5 P.S.W. UNIT

SCHEMATIC DIAGRAMS (7/8)

1 2 3 4 5 6 7 8 9 10 11

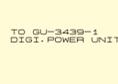
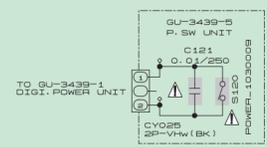


A

B

C

D



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 MEASURED AT NO SIGNAL INPUT
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 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 (7/8)
 GU-3439-2 DISPLAY UNIT
 GU-3439-3 LED UNIT
 GU-3439-4 SW UNIT
 GU-3439-5 P.S.W. UNIT

SCHEMATIC DIAGRAMS (7/8)

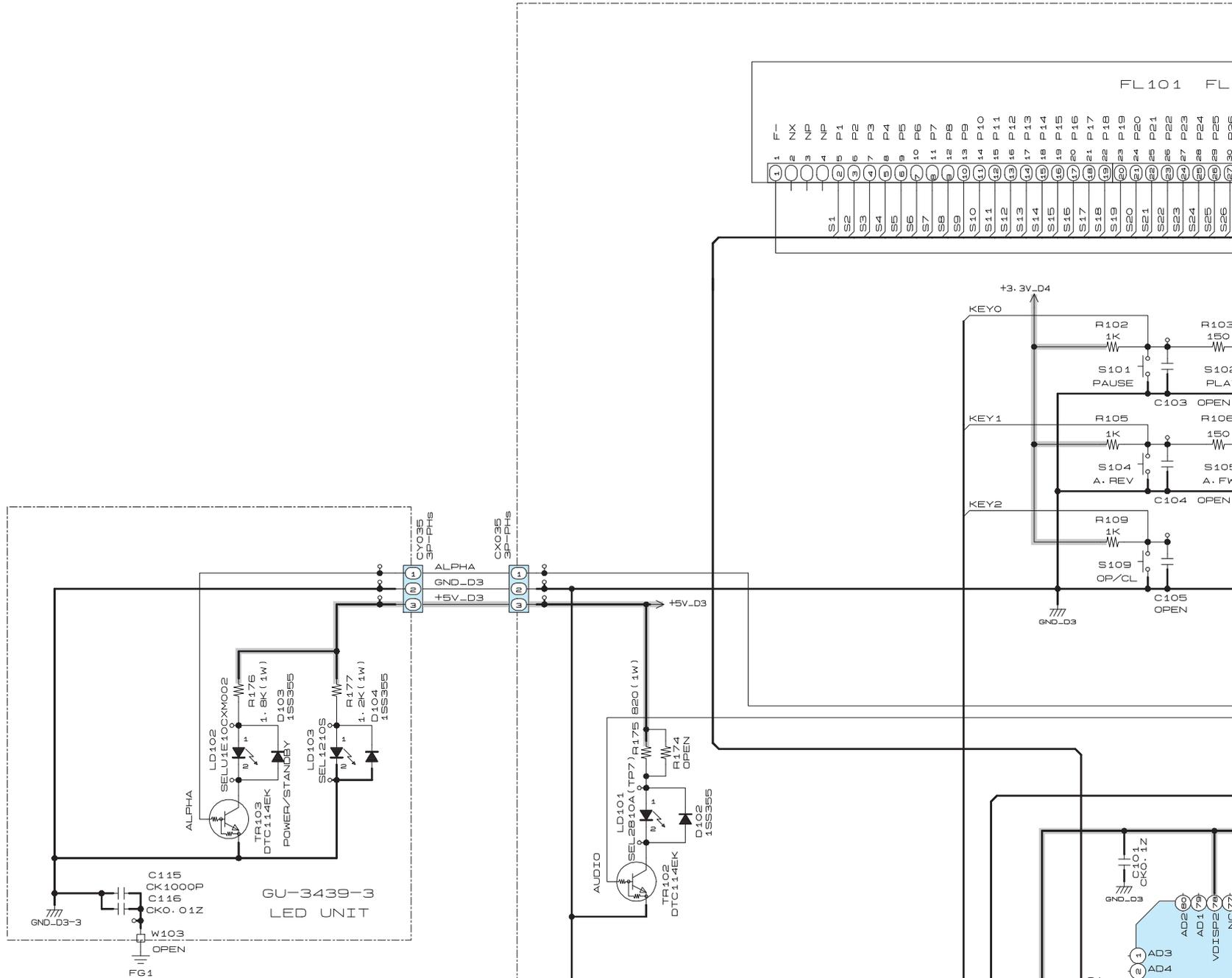
1

2

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6

7

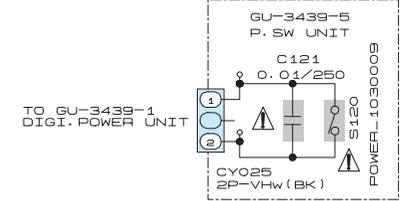
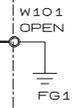
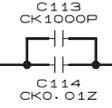
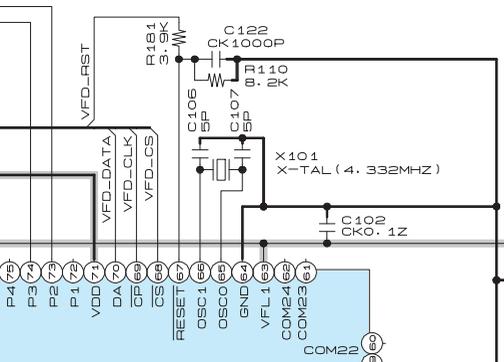
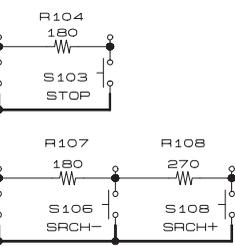
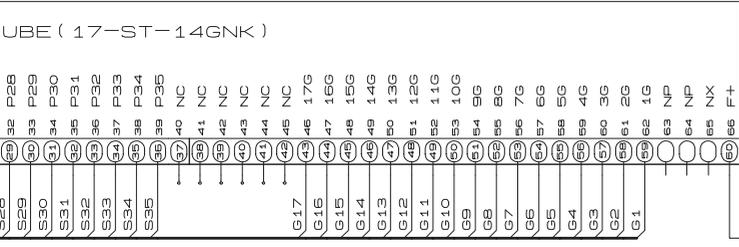
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U1 (17-ST-14GNK)

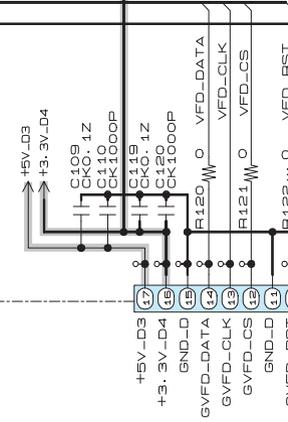
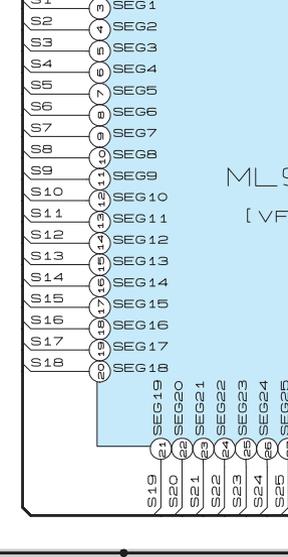
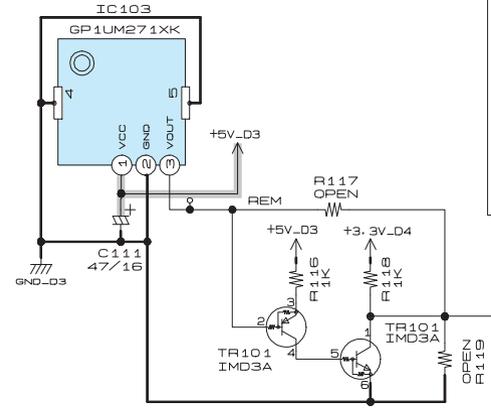
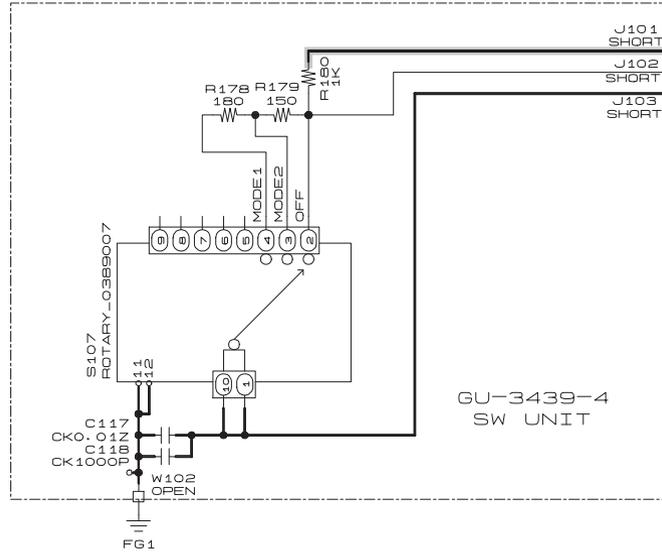


A

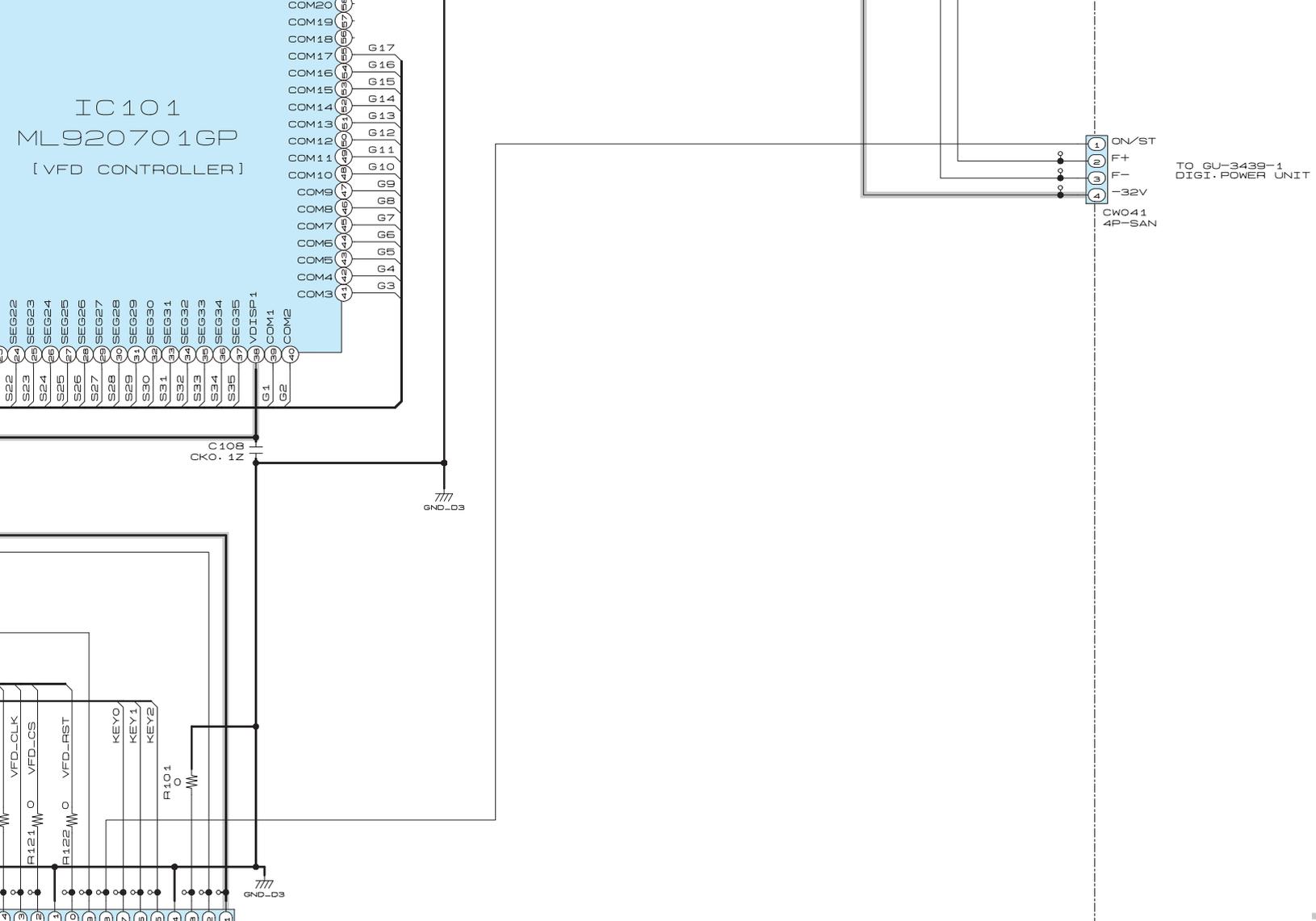
B

C

D



NOTICE
 ALL RESISTANCE VALUES
 ALL CAPACITANCE VALUES
 EACH VOLTAGE AND CURRENT
 CONDITION.
 CIRCUIT AND PARTS ARE
 NOTICE.



— ± B LINE
 → SIGNAL LINE

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

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.

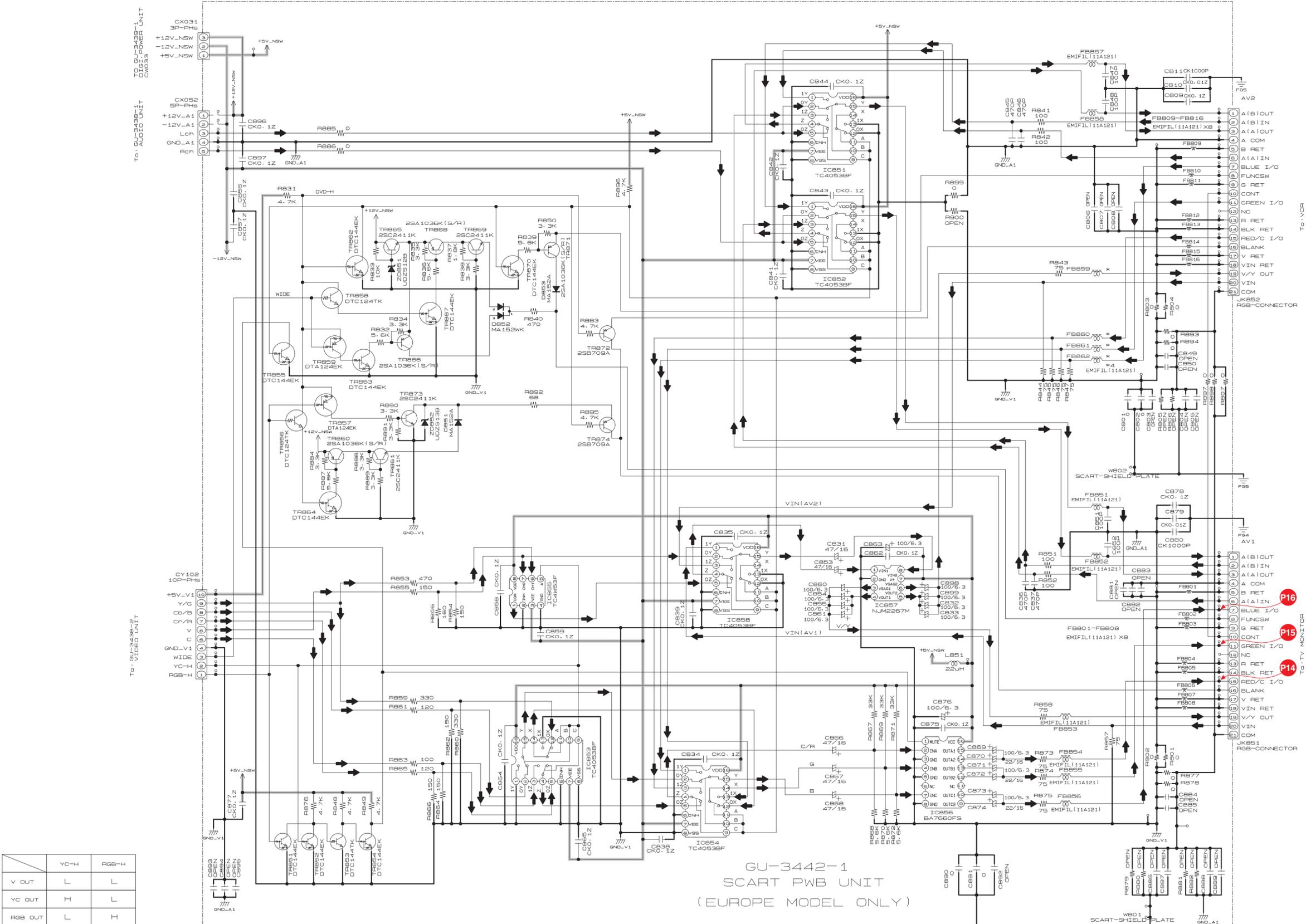
SCHEMATIC DIAGRAMS (7/8)
 GU-3439-2 DISPLAY UNIT
 GU-3439-3 LED UNIT
 GU-3439-4 SW UNIT
 GU-3439-5 P.SW UNIT

VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
 E VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
 AND CURRENT ARE MEASUERD AT MO SIGNAL INPUT

PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR

SCHEMATIC DIAGRAMS (8/8)

1 2 3 4 5 6 7 8 9 10 11



	YC-H	RGB-H
V OUT	L	L
YC OUT	H	L
RGB OUT	L	H

GU-3442-1
SCART PWB UNIT
(EUROPE MODEL ONLY)

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

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 millamps, 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 MEASURED AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

For the Waveforms marked with numbers P14 - P16, refer to page 89 (WAVEFORMS).

± B LINE
→ SIGNAL LINE

SCHEMATIC DIAGRAMS (8/8)
GU-3442-1 SCART UNIT (Europe model only)

SCHEMATIC DIAGRAMS (8/8)

1 2 3 4 5 6 7 8 9 10 11

A

B

C

D

	YC-H	RGB
V OUT	L	L
YC OUT	H	L
RGB OUT	L	H

NOTICE
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WARNING:
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GU-3442-1
 SCART PWB UNIT
 (EUROPE MODEL ONLY)

For the Waveforms marked with numbers P14 - P16, refer to page 89 (WAVEFORMS).

± B LINE
 → SIGNAL LINE

SCHEMATIC DIAGRAMS (8/8)
 GU-3442-1 SCART UNIT (Europe model only)

SCHEMATIC DIAGRAMS (8/8)

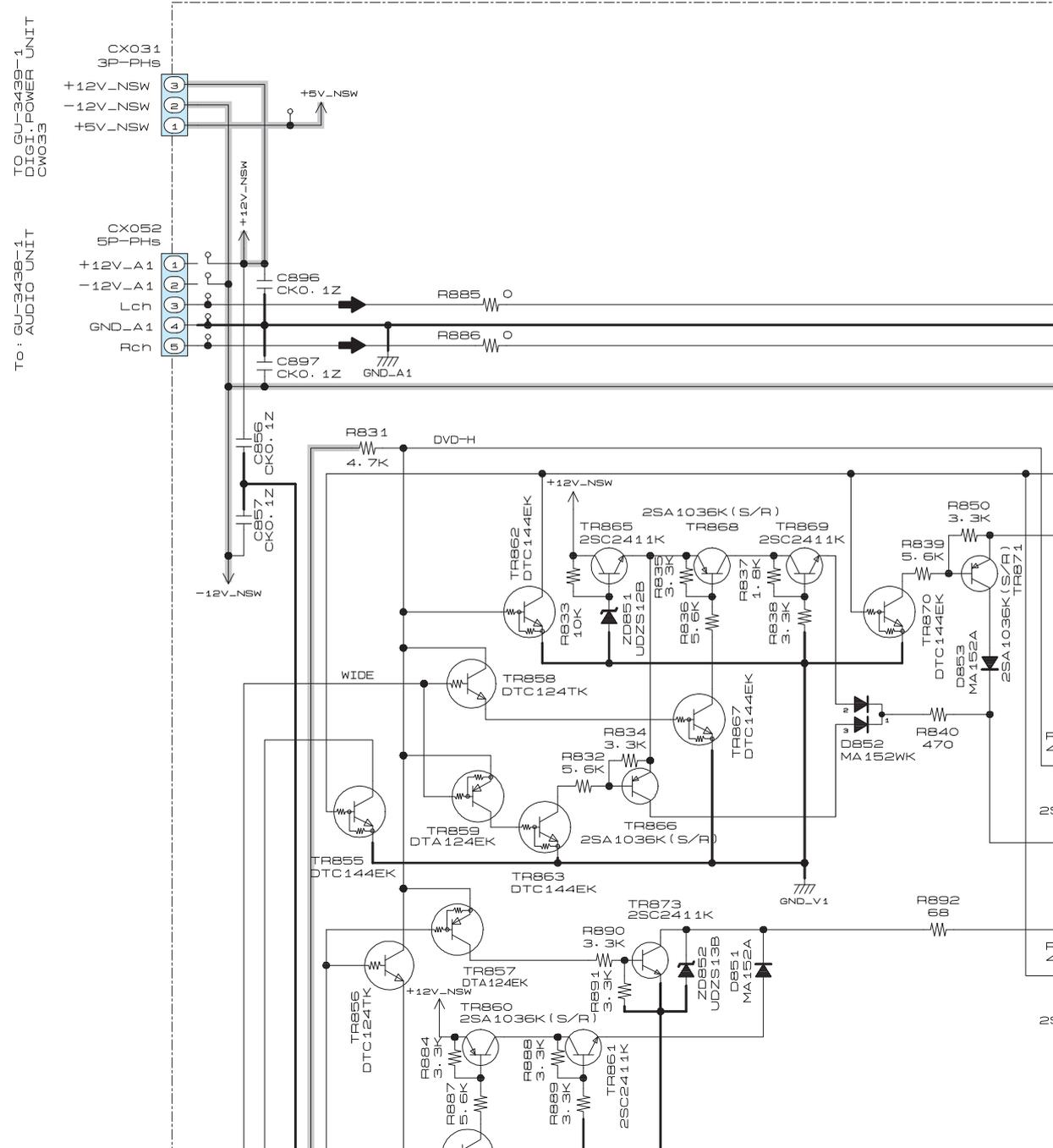
1

2

3

4

5



6

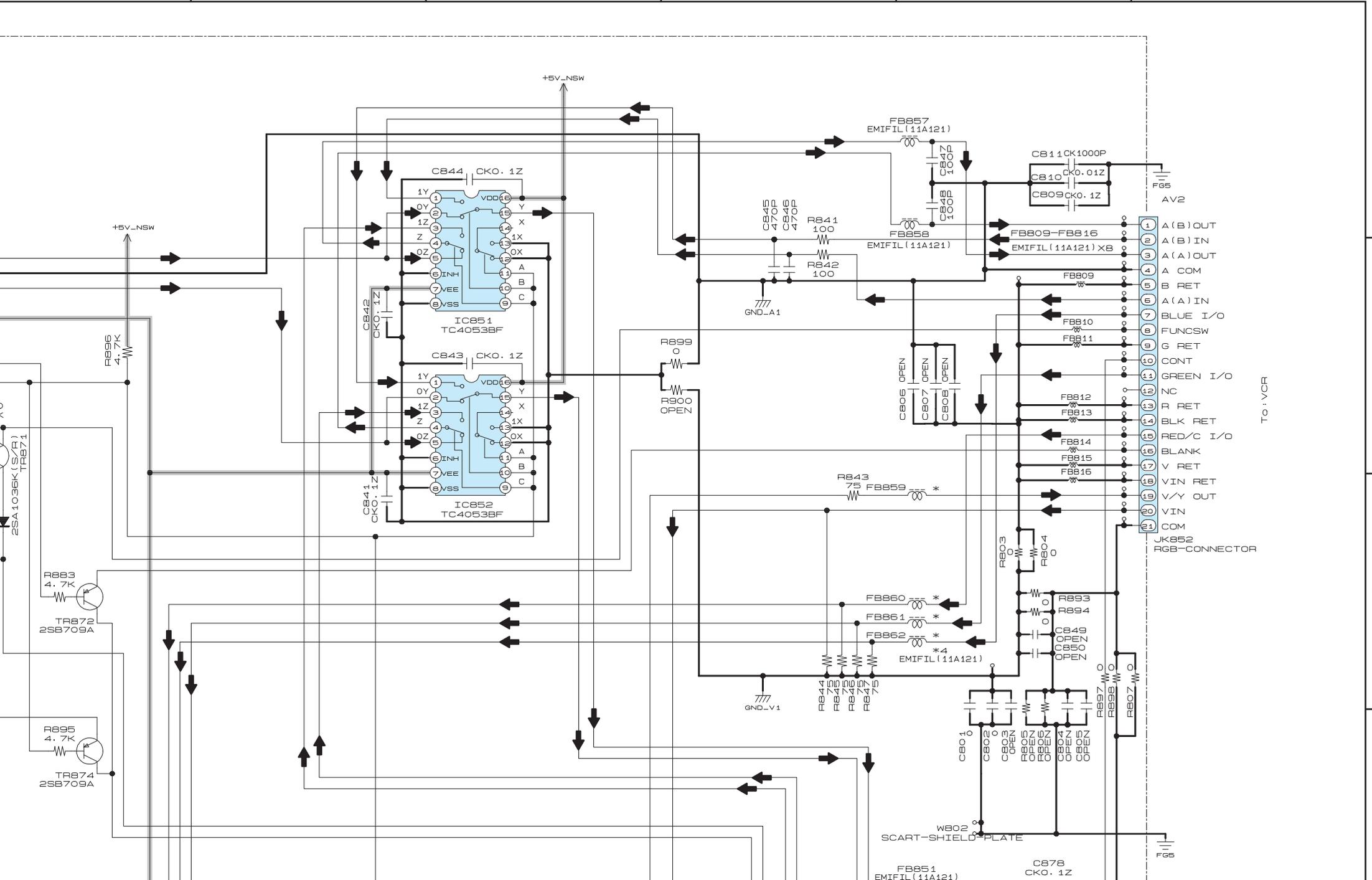
7

8

9

10

11



A

B

C

D

- 1 A(B) OUT
- 2 A(B) IN
- 3 A(A) OUT
- 4 A COM
- 5 B RET
- 6 A(A) IN
- 7 BLUE I/O
- 8 FUNCSW
- 9 G RET
- 10 CONT
- 11 GREEN I/O
- 12 NC
- 13 R RET
- 14 BLK RET
- 15 RED/C I/O
- 16 BLANK
- 17 V RET
- 18 VIN RET
- 19 V/Y OUT
- 20 VIN
- 21 COM
- JK852 RGB-CONNECTOR

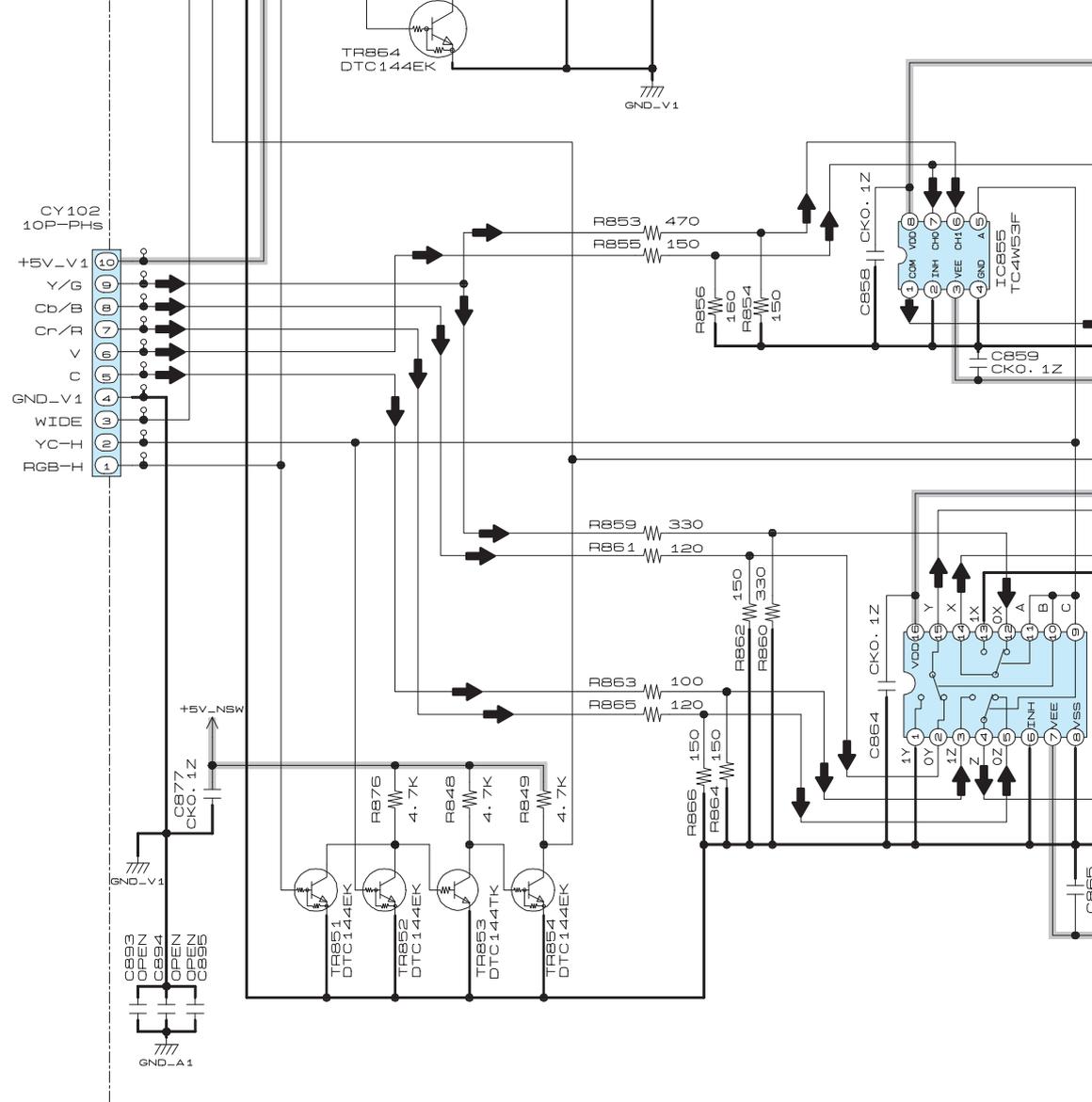
To:VCR

	YC-H	RGB-H
V OUT	L	L
YC OUT	H	L
RGB OUT	L	H

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 MEASURED AT MO SIGNAL INPUT
 CONDITION.
 CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR
 NOTICE.

To : GU-3438-2
 VIDEO UNIT



WARNING:

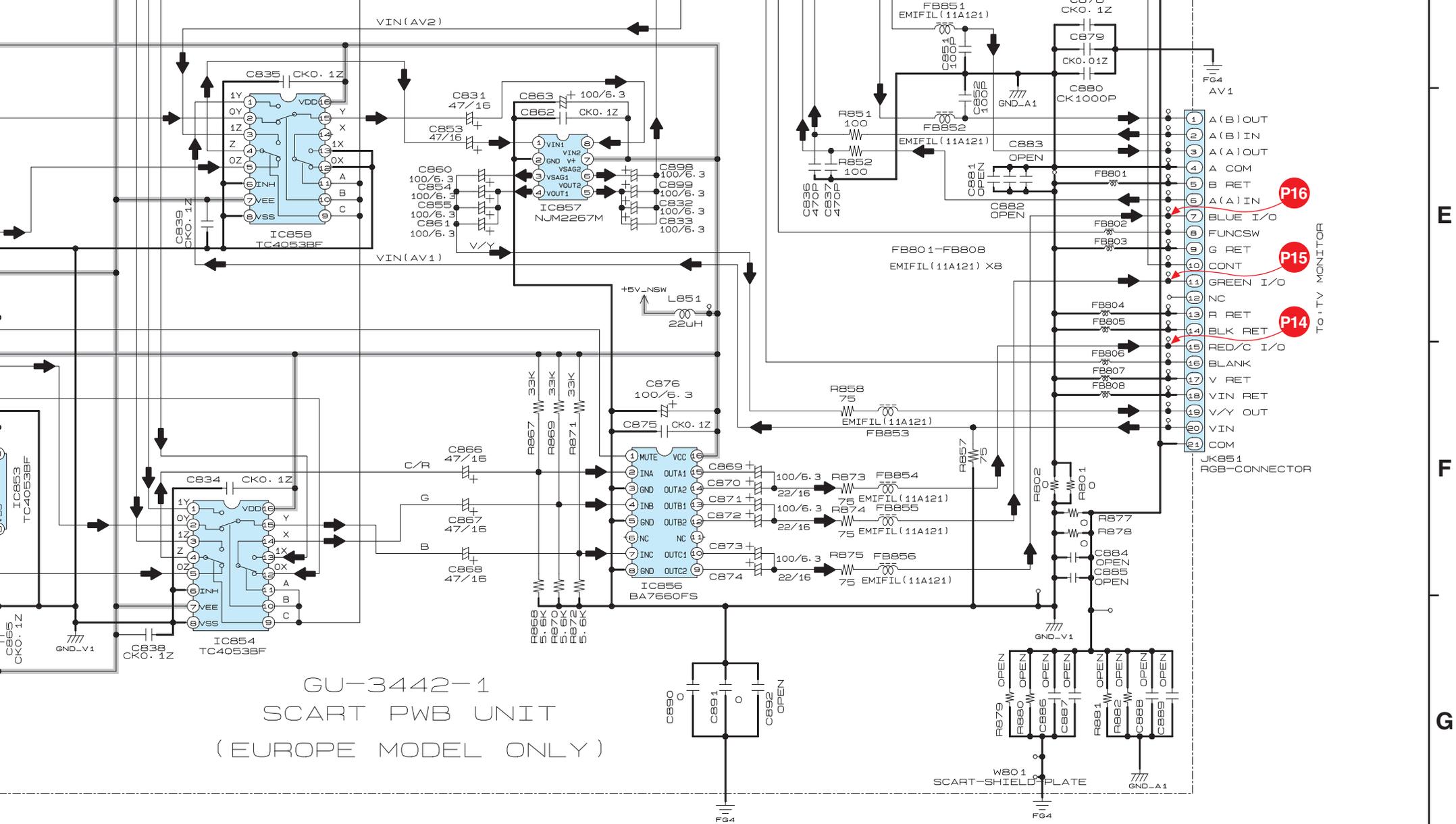
Parts marked with this symbol have critical characteristics. Use ONLY replacement parts recommended by the manufacture.

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.



GU-3442-1
SCART PWB UNIT
(EUROPE MODEL ONLY)

For the Waveforms marked with numbers P14 ~ P16, refer to page 89 (WAVEFORMS).

— ± B LINE
→ SIGNAL LINE

SCHEMATIC DIAGRAMS (8/8)
GU-3442-1 SCART UNIT (Europe model only)