

STR-W770

SERVICE MANUAL

*E Model
Australian Model*



STR-W770 is RECEIVER section in
MHC-W770AV.

Manufactured under license from Dolby Laboratories
Licensing Corporation.

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trademarks of Dolby Laboratories Licensing Corporation.

SPECIFICATIONS

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range 87.5-108.0MHz
Aerial FM lead aerial
Aerial terminals 75 ohm unbalanced
Intermediate frequency 10.7MHz

AM tuner section

Tuning range (Thai,Australian,E)
AM: 530-1,710kHz
(with interval set at 10kHz)
531-1,710kHz
(with interval set at 9kHz)
(EXCEPT Thai,Australian,E)
MW: 531-1,602kHz
(with interval set at 9kHz)
(EXCEPT Thai,Australian,E)
SW: 5.95-17.90MHz
(with interval set at 9kHz)
Intermediate frequency 450kHz
Aerial AM loop aerial,
External aerial terminal

Video section

Inputs
AV INPUT VIDEO
(phone jack) :
1 Vp-p, 75 ohms
MONITOR OUT
(phone jack) :
1 Vp-p, 75 ohms

Amplifier section

DIN power output 80W +80W
(6 ohms at 1kHz, DIN)
190W + 190W
(6 ohms at 1kHz, 10%, THD)
Music power output
Inputs MD/VIDEO 1 IN (phono jacks) : voltage 250 mV,
impedance 47 kilo ohms AV INPUT AUDIO
(phone jacks) : voltage 250 mV, impedance 47
kilo ohms
MIX/MIC (phone jack) :sensitivity 1mV,
impedance 10 kilo ohms
Outputs MD/VIDEO 1 OUT
(phone jacks) : voltage 250
mV, impedance 1 kilo ohm
PHONES (stereo phone
jack) : accepts headphone
of 8 ohms or more.
SPEAKER : accepts
impedance of 6 to 16
ohms
SUPER WOOFER :
Voltage 1 V, impedance 1
kilo ohms

— Continued on next page —

FM STEREO/FM-AM RECEIVER



SONY

General

Power requirements 240V AC, 50/60 Hz (Australian)
220V AC, 50/60 Hz (Thai)
110 - 120V/220-240V AC adjustable, 50/60 Hz
(OTHER MODEL)

Power consumption 170 watts

Dimensions (w / h / d) Approx. 280 × 205 × 336 mm

Mass Approx. 7.0 kg

Design and specifications are subject to change without notice.

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Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

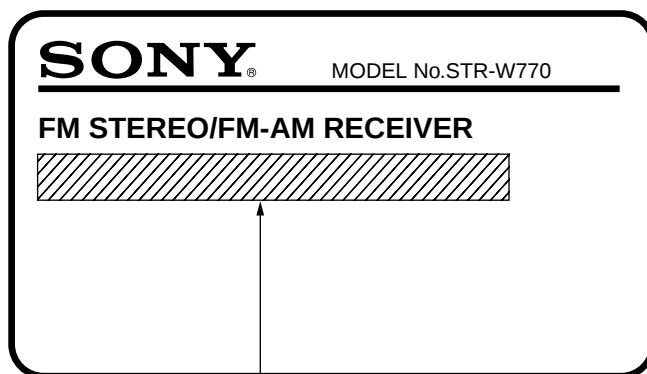
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK $\triangle$ OR DOTTED LINE WITH MARK $\triangle$ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

MODEL IDENTIFICATION

— Model Number Label —

MODEL IDENTIFICATION



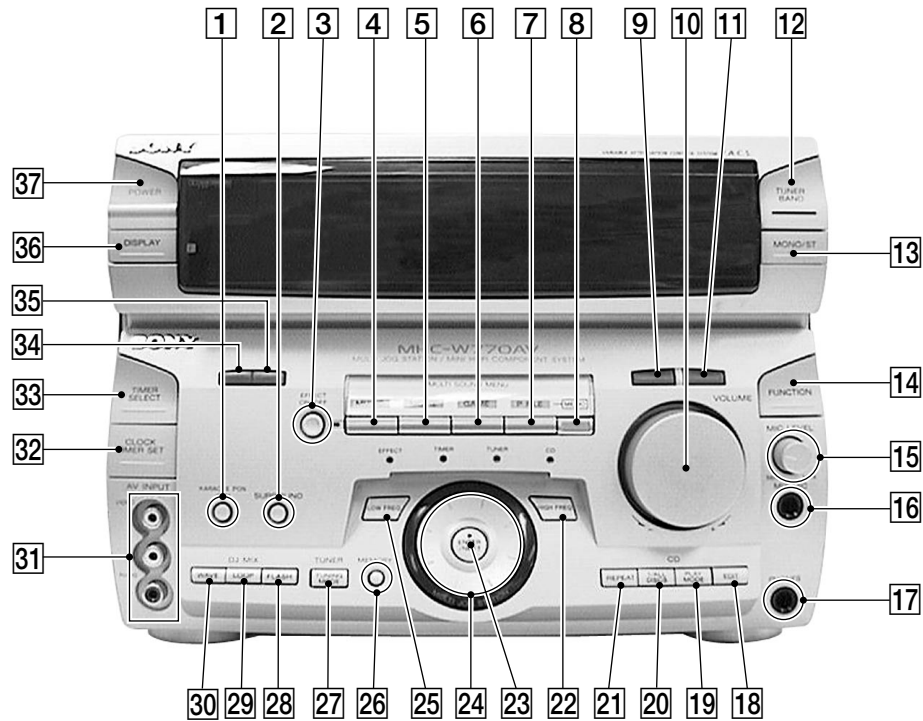
Australian : AC 240V AC, ~ 50/60Hz 170W

Thai : AC 220V AC, ~ 50/60Hz 170W

OTHER MODEL : AC 110-120V, 220-240V selectable
~ 50/60Hz 170W

SECTION 1 GENERAL

— FRONT PANEL —



- | | |
|---------------------------------|----------------------------------|
| 1 KARAOKE PON/MPX button | 20 1/ALL DISCS button |
| 2 SURROUND button | 21 REPEAT button |
| 3 EFFECT ON/OFF button | 22 HIGH FREQ button |
| 4 MUSIC button | 23 ENTER/NEXT button |
| 5 MOVIE button | 24 MULTI JOG STATION dial |
| 6 GAME button | 25 LOW FREQ button |
| 7 P FILE button | 26 MEMORY button |
| 8 MEMO button | 27 TUNING MODE button |
| 9 DBFB button | 28 FLASH button |
| 10 VOLUME | 29 LOOP button |
| 11 GROOVE button | 30 WAVE button |
| 12 TUNER BAND button | 31 AV INPUT jack |
| 13 MONO/ST button | 32 CLOCK TIMER SET button |
| 14 FUNCTION button | 33 TIMER SELECT button |
| 15 MIC LEVEL | 34 DOLBY PROLOGIC button |
| 16 MIX MIC jack | 35 MODE button |
| 17 PHONES jack | 36 DISPLAY button |
| 18 EDIT button | 37 POWER button |
| 19 PLAY MODE button | |

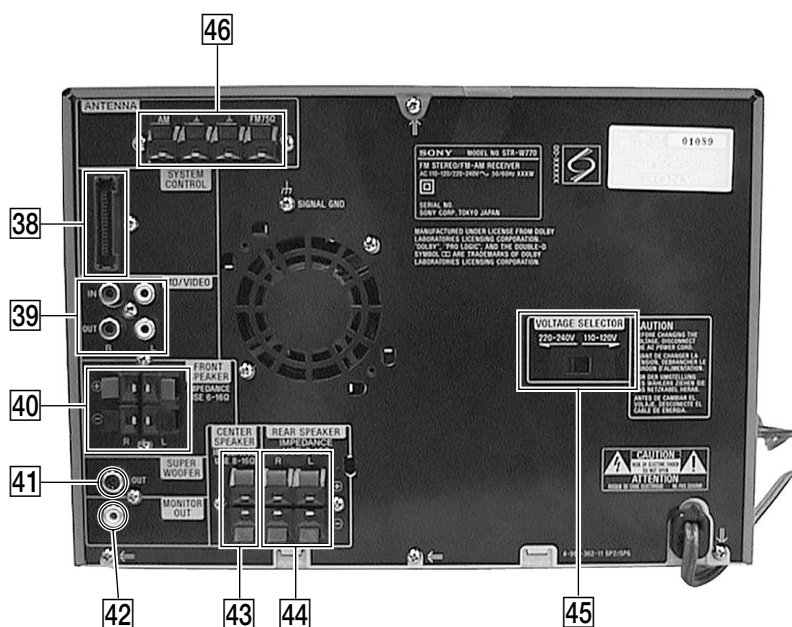


Photo : E MODEL

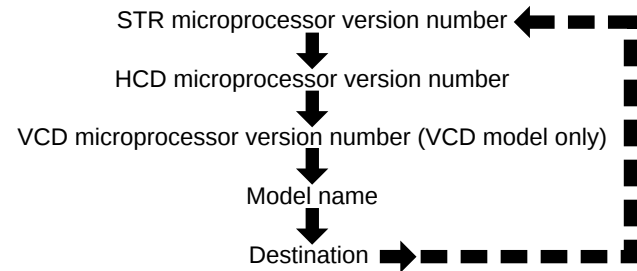
- 38 SYSTEM CONTROL
- 39 MD/VIDEO jack
- 40 FRONT SPEAKER terminal
- 41 SUPER WOOFER jack
- 42 MONITOR OUT jack
- 43 CENTER SPEAKER terminal
- 44 REAR SPEAKER terminal
- 45 VOLTAGE SELECTOR switch
(EXCEPT Thai, Australian model)
- 46 ANTENNA terminal

SECTION 2
TEST MODE

FL DISPLAY/KEY LED TEST MODE

Press the REPEAT, ENTER/NEXT and SURROUND buttons simultaneously.

1. All FL segments and all LEDs turn on.
2. To access the microprocessor information, press the PFILE key. Each pressing of the PFILE key advances the display on the FL tube in the following sequence.



3. To check the encoder, press the MUSIC key. The following display appears on the FL tube.

"K 0 J 0 V 0"

The number after K indicates the number of times that the key is pressed. The key which was pressed in the past, is not counted. The key which is pressed hereafter is counted. Pressing any key increases the number after K.

The number after J indicates the number of rotations that the JOG dial is rotated. Turning the JOG dial clockwise increases the number after J. Turning the JOG dial counter-clockwise decreases the number after J.

The number after V indicates the number of rotations that the VOLUME dial is rotated. Turning the VOLUME dial clockwise increases the number after V. Turning the VOLUME dial counter-clockwise decreases the number after V.

To exit this mode, perform the "Cold Reset" (reset clearing memory) as described below.

GENERAL TEST MODE
(INCLUDING AMPLIFIER AND TUNER)

Press the REPEAT, ENTER/NEXT and CLOCK TIMER SET buttons simultaneously while the main power is on.

1. Sound volume display segment starts blinking.
2. The tuning enters the PRESET mode.
3. Rotating the VOLUME control clockwise increases the volume level to maximum. Rotating the VOLUME control counter-clockwise decreases the volume level to minimum.
4. Pressing the MUSIC key decreases the equalizer curve to minimum and "EQCHECK" appears on the display. Pressing the MOVIE key increases the equalizer curve to maximum. Pressing the GAME key makes the equalizer curve flat.
5. Pressing any of the DBFB, GROOVE or SURROUND keys disappears "EQCHECK" on the display.

To exit this mode, perform the "Cold Reset" (reset clearing memory) as described below.

AGING MODE

1. CD aging mode
To execute the CD aging, set the three discs to the CD tray and set the function to CD. REPEAT, ENTER/NEXT and LOOP buttons simultaneously. The CD aging mode starts and the disc calendar starts blinking.
2. Tape aging mode
To execute the tape aging, set the two tapes to the tape A and B drives. Set the function to TAPE. Press the REPEAT, ENTER/NEXT and LOOP buttons simultaneously. Press the Advance key to start the tape aging mode. "AGING" appears on the display.

CD SERVICE MODE

Turn on the main power. Press the REPEAT, ENTER/NEXT and KARAOKE PON/MPX buttons simultaneously. VACS toggles between ON and OFF.

VACS LEVEL DISPLAY

Turn on the main power. Press the EDIT, ENTER/NEXT and KARAOKE PON/MPX buttons simultaneously. VACS level appears on the display.

CD SHIP MODE

Turn on the main power. Press the PLAY MODE and POWER buttons simultaneously. The main power is turned off and LOCK appears on the display.

TUNER STEP CHANGE

Turn on the main power. Set the function to TUNER. Select MW band from the present tuning. Turn off the main power. Press the ENTER/NEXT and POWER buttons simultaneously. The main power is turned on and the changed step appears on the display.

MD/VIDEO 1 FUNCTION CHANGE

Press the FUNCTION and POWER buttons simultaneously while the main power is on. When the function is set to VIDEO 1, the function is changed to MD and MD appears on the display. When the function is set to MD, the function is changed to VIDEO 1 and VIDEO 1 appears on the display.

COLD RESET (Reset which clears memory.)

Press the REPEAT, ENTER/NEXT and DISPLAY buttons simultaneously at any time. The system is reset while clearing memory.

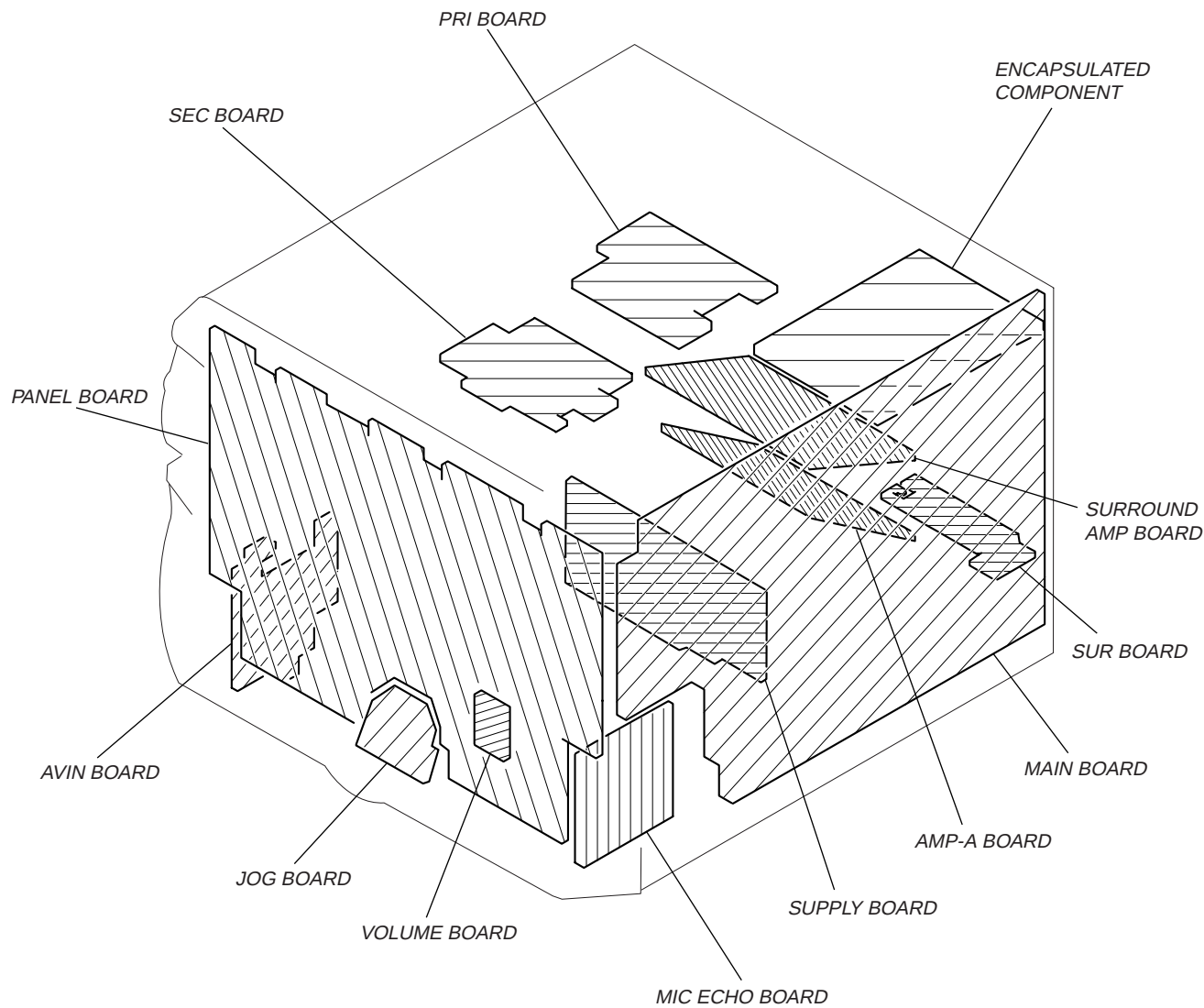
HOT RESET

(Reset which does not clear memory.)

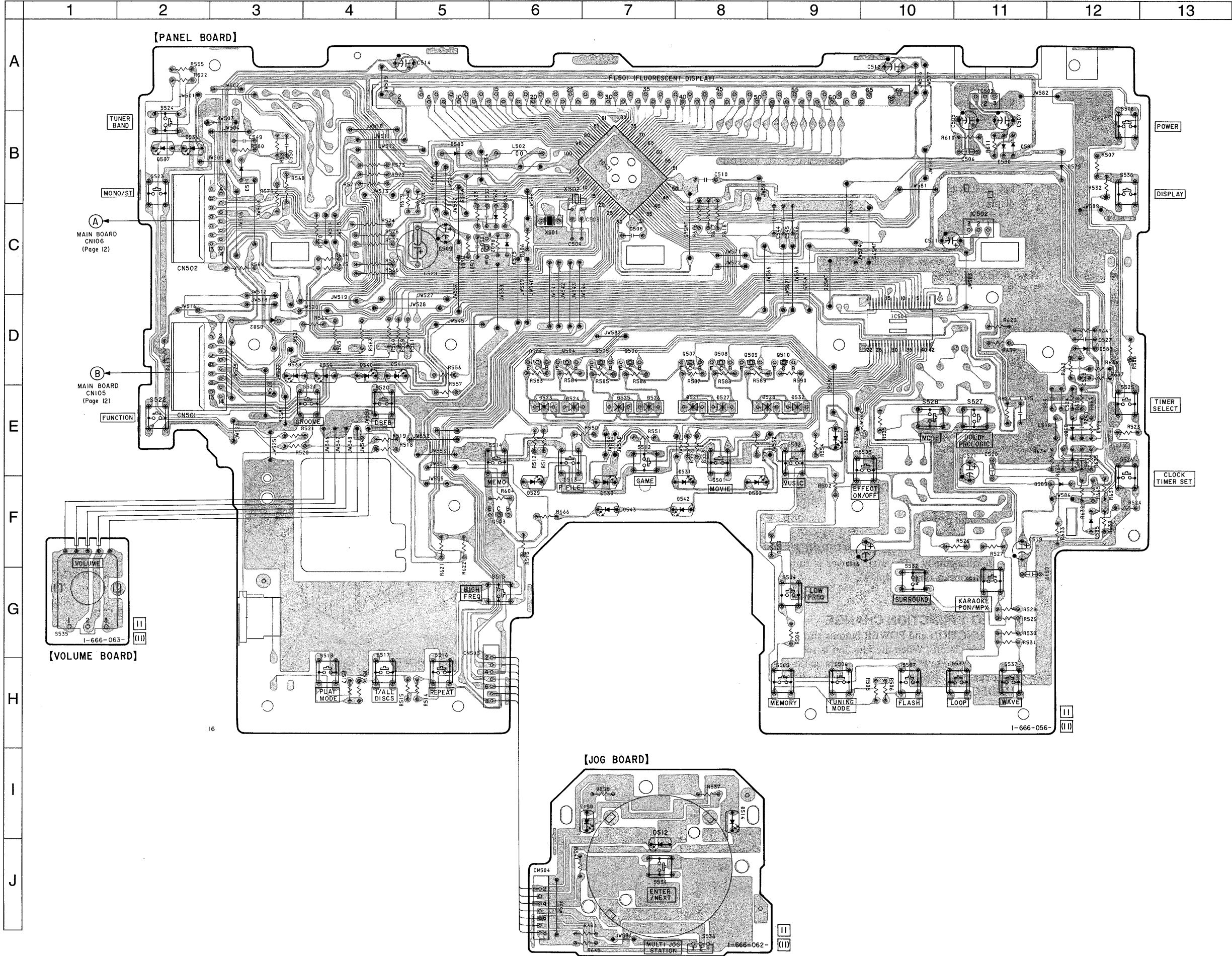
Press the REPEAT, ENTER/NEXT and TIMER SELECT buttons simultaneously at any time. The system is reset without clearing memory.

SECTION 3
DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



3-2. PRINTED WIRING BOARD — PANEL SECTION —



• Semiconductor Location

Ref. No.	Location
D511	B-3
D512	J-7
D513	I-7
D514	I-8
D521	E-8
D523	E-6
D524	E-6
D525	E-7
D526	E-7
D527	E-8
D528	E-8
D529	F-6
D530	F-7
D531	F-8
D532	E-9
D533	F-8
D534	E-9
D536	B-2
D537	B-2
D538	D-3
D539	D-4
D540	D-4
D541	D-5
D542	F-8
D543	F-7
D575	C-6
D576	B-6
D579	B-12
D580	B-11
D581	B-11
D582	D-3
D583	B-5
D585	F-12
D586	E-12
D587	E-12
D588	D-12
D589	F-12
IC501	B-7
IC502	C-11
IC503	A-11
IC504	D-10
Q501	C-5
Q502	D-6
Q503	F-6
Q504	D-6
Q505	D-7
Q506	D-7
Q507	D-8
Q508	D-8
Q509	D-8
Q510	D-9

Note:
• — : parts extracted from the component side.
• — : parts on the side which is seen.

The schematic diagram illustrates the control system for a VCR, organized into several functional boards:

- MAIN BOARD (CN106):** The central processing unit, featuring IC501 (Display Control), IC502 (Remote Sensor), IC503 (Reset Gen), and IC504 (LED Drive). It includes various resistors (R1-R100), capacitors (C1-C100), and switches (S1-S100).
- PANEL BOARD:** Contains the 'FLUORESCENT DISPLAY' (FL501) and a 'BOTTOM VIEW' of the display tube. It includes a 'DISPLAY CONTROL' section with a '32KHz' oscillator and a 'RESET GEN' section with a 'RESET SW'.
- VOLUME BOARD:** Features a 'VOLUME' control section with a 'VOLUME' potentiometer and a 'VOLUME' switch. It includes a 'VOLUME' section with a 'VOLUME' potentiometer and a 'VOLUME' switch.
- JOG BOARD:** Includes a 'JOG BOARD' section with a 'MULTI JOB STATION' and a 'JOG BOARD' section with a 'MULTI JOB STATION'.

The diagram also shows a 'FLUORESCENT DISPLAY' section with a 'BOTTOM VIEW' of the display tube, a 'JOG BOARD' section with a 'MULTI JOB STATION', and a 'JOG BOARD' section with a 'MULTI JOB STATION'.

Note:

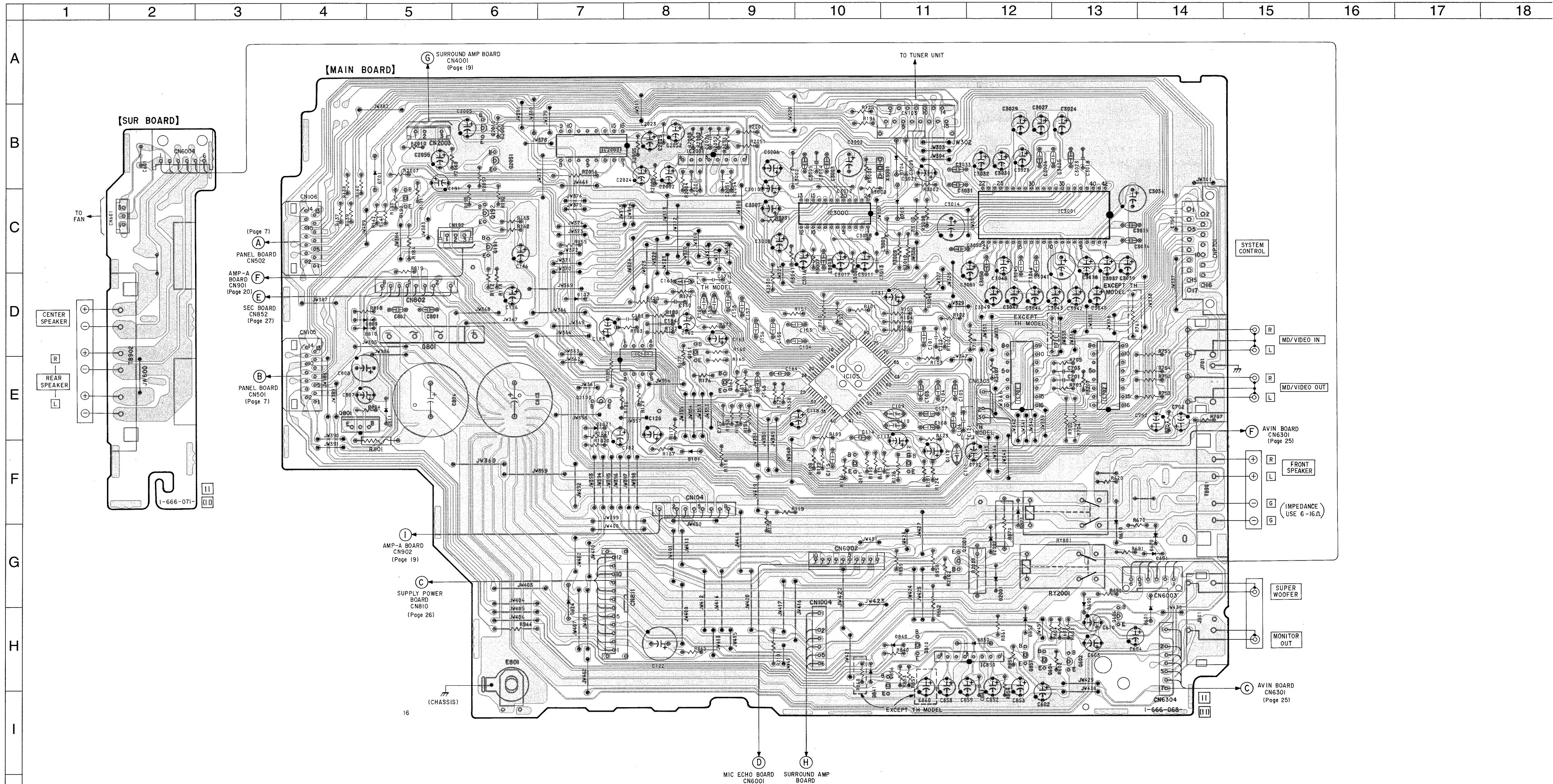
- All capacitors are in μF unless otherwise noted. pF: $\mu\mu\text{F}$ 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- $\triangle$: Internal component.
- $\boxed{\text{B}+}$: B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
No mark: FM
- Voltages are taken with a VOM (Input impedance $10\text{M}\Omega$).
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal production tolerances.

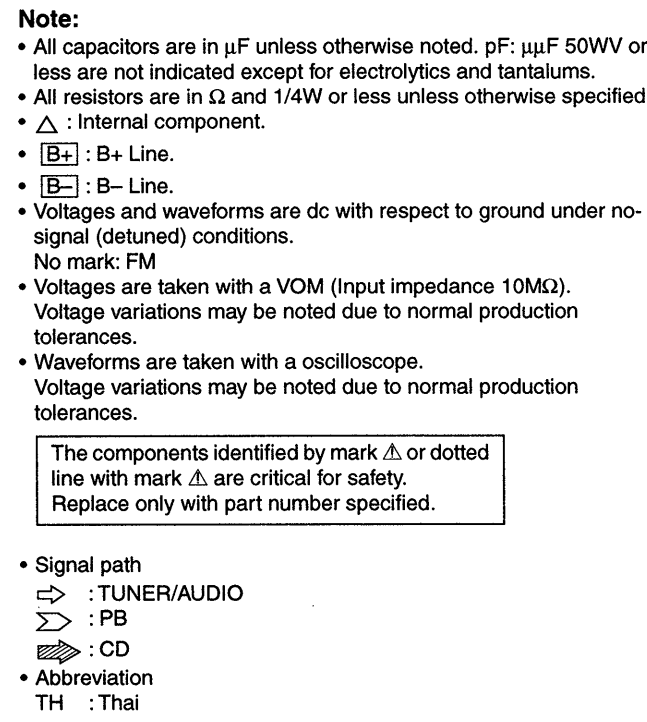
• Semiconductor Location

Ref. No.	Location
D101	H-8
D102	D-7
D601	H-14
D610	G-13
D670	G-14
D690	G-13
D691	G-14
D701	B-5
D703	C-11
D704	B-11
D801	D-5
D809	D-4
D810	D-4
D811	E-5
D821	F-12
D824	H-7
D830	H-12
D840	H-11
D841	H-10
D852	H-12
D1021	E-7
D2001	G-12
D2002	G-12
IC101	E-8
IC105	E-10
IC701	E-12
IC702	E-13
IC850	H-12
IC2001	B-8
IC2002	B-7
IC3000	C-10
IC3001	C-12
Q111	F-10
Q112	F-11
Q161	D-8
Q162	E-7
Q190	C-5
Q191	C-6
Q192	C-6
Q602	H-13
Q604	H-12
Q606	H-12
Q801	E-4
Q810	H-11
Q856	H-11
Q857	H-12
Q2001	G-11
Q2010	B-6
Q2051	B-6
Q2100	E-7

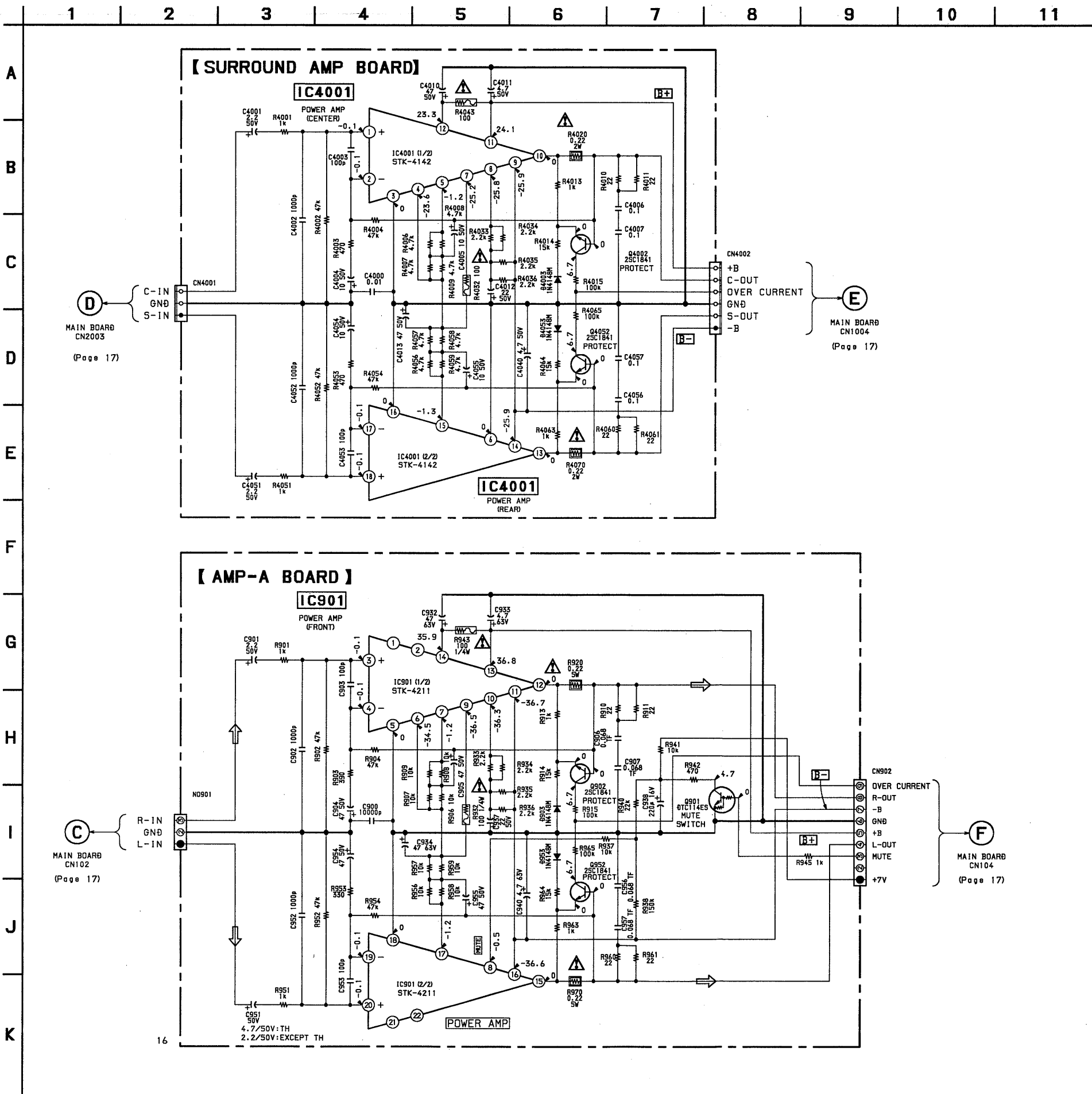
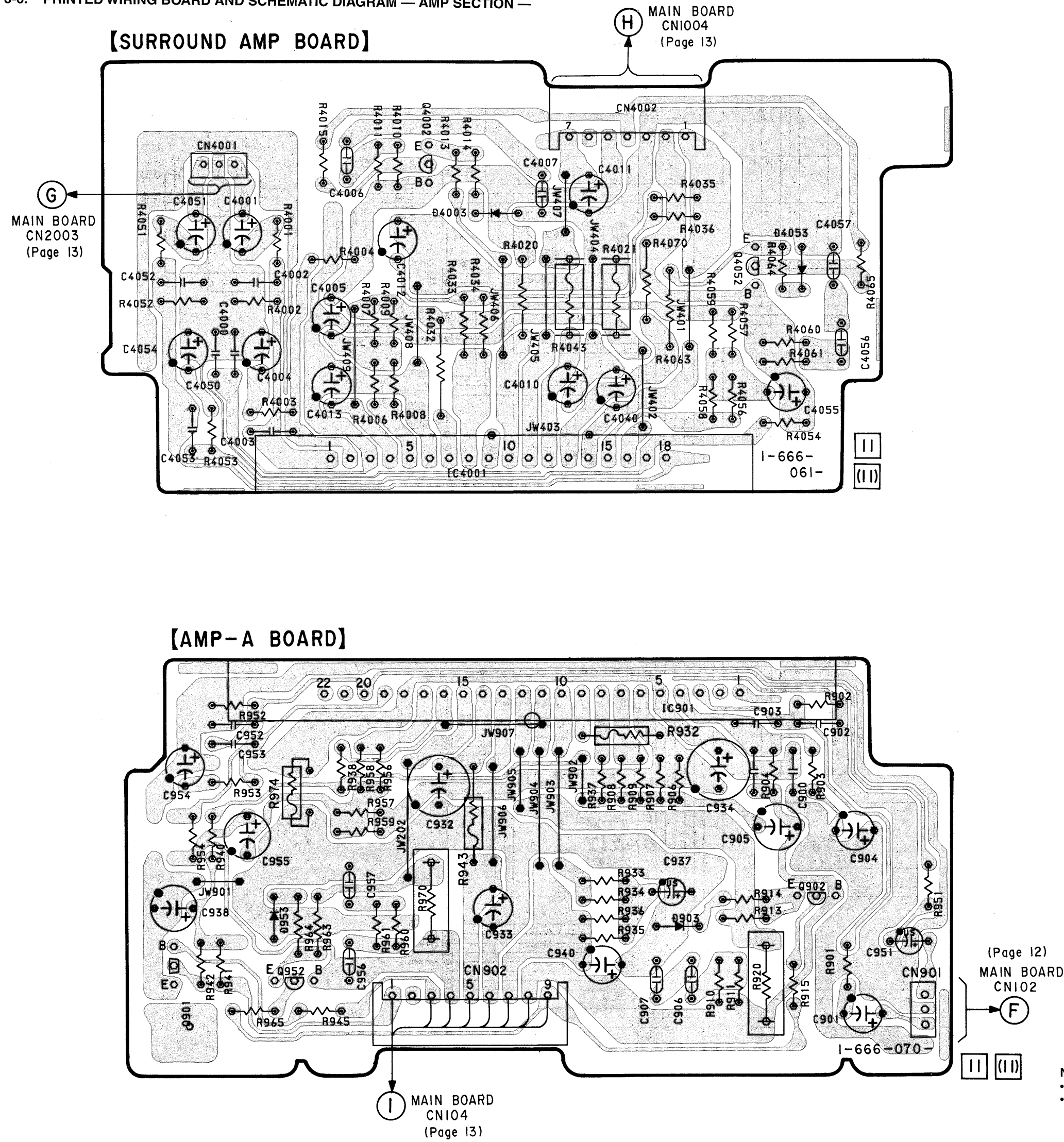
Note:

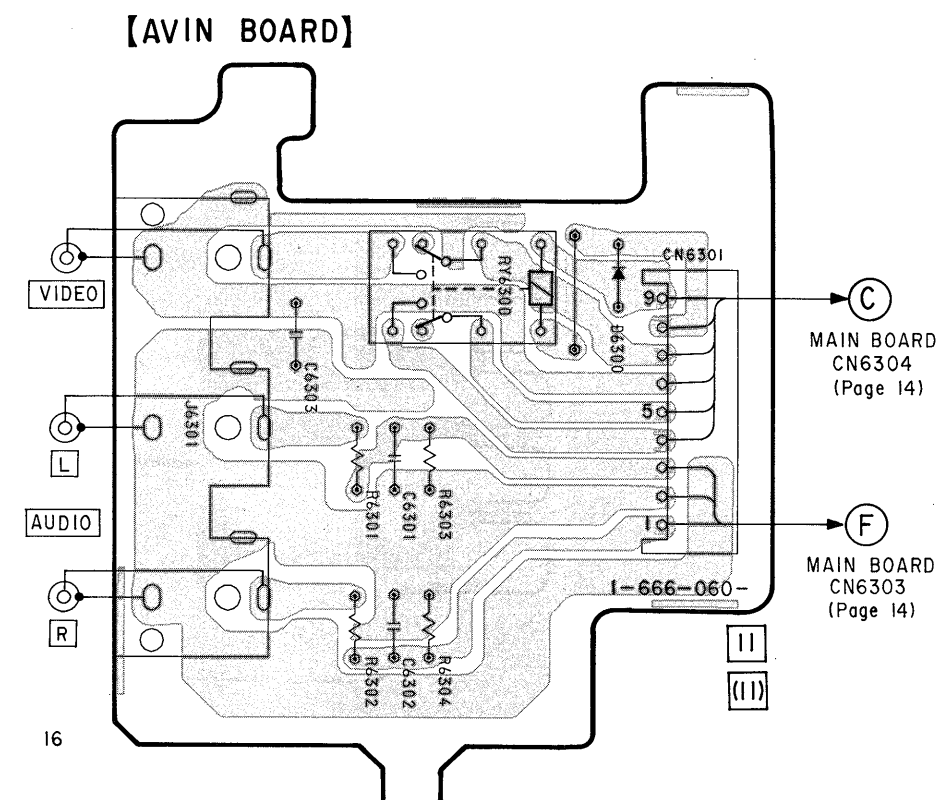
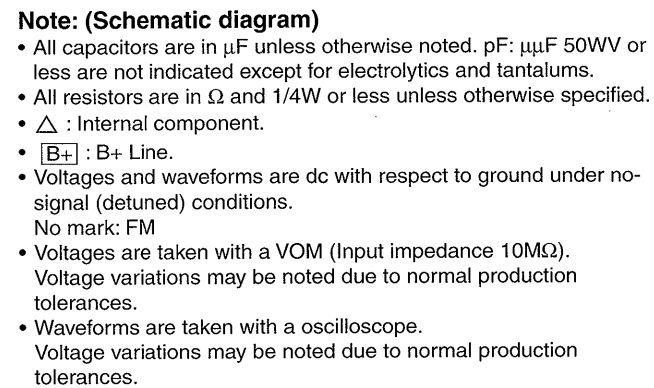
- — : parts extracted from the component side.
- : parts on the side which is seen.
- Abbreviation
TH : Thai





3-6. PRINTED WIRING BOARD AND SCHEMATIC DIAGRAM — AMP SECTION —

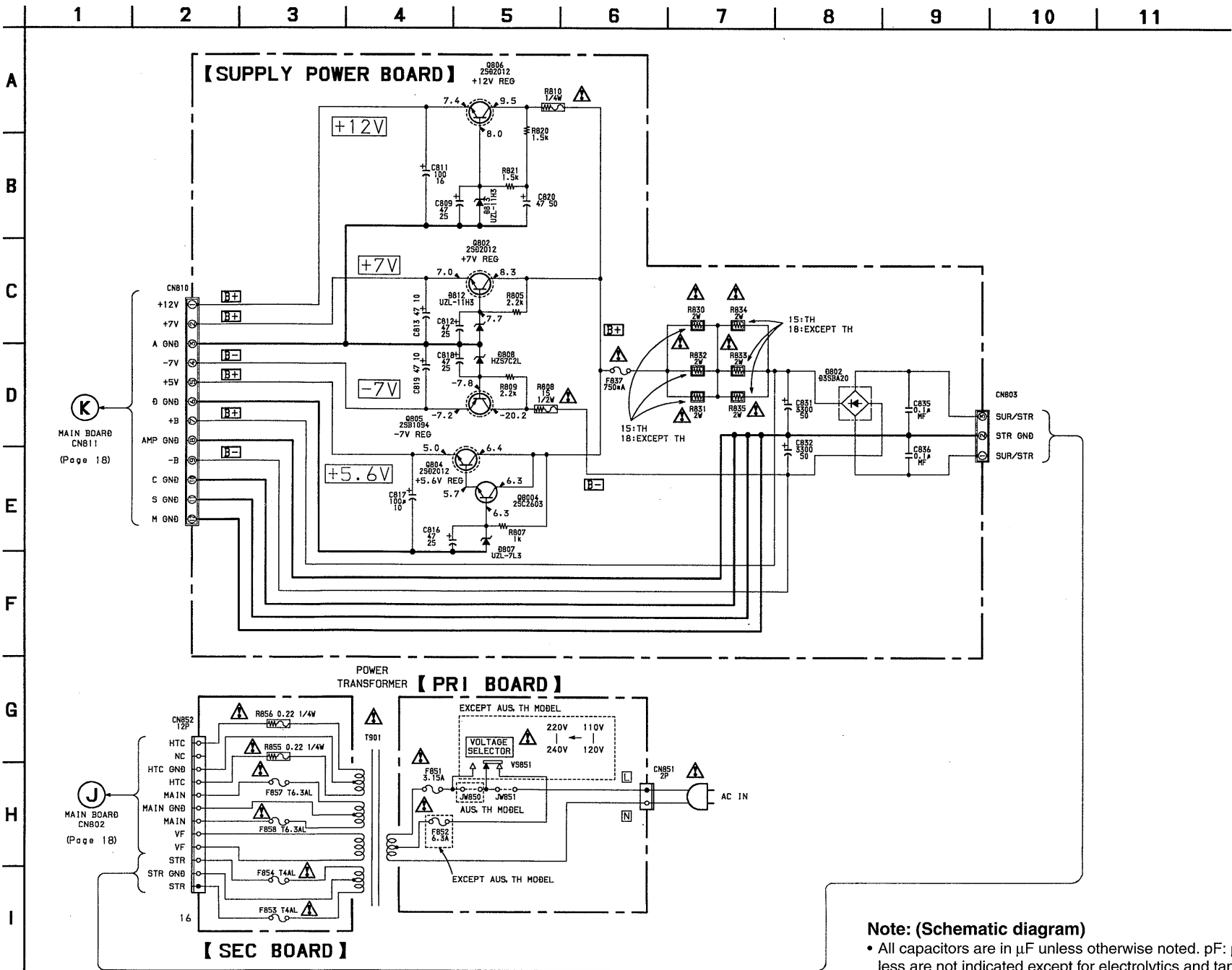
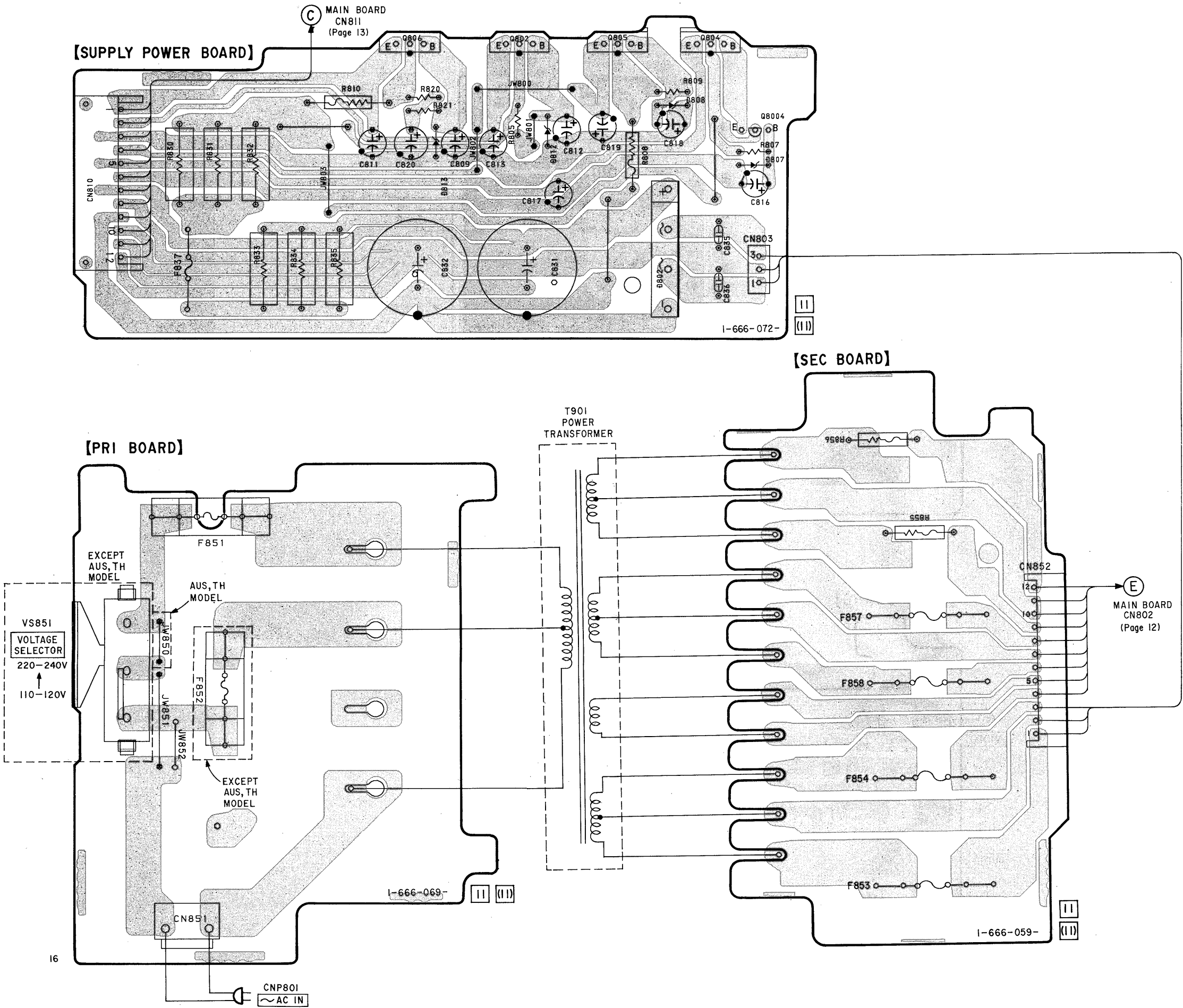




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STR-W770

3-8. PRINTED WIRING BOARD AND SCHEMATIC DIAGRAM — POWER SECTION —



Note: (Schematic diagram)

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- $\triangle$: Internal component.
- $[B+]$: B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
No mark: FM
- Voltages are taken with a VOM (Input impedance 10M Ω).
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal production tolerances.

The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety.
Replace only with part number specified.

Note: (Printed Wiring Board)

- $\bullet$: parts extracted from the component side.
- --- : parts on the side which is seen.

• Abbreviations
TH : Thai
AUS : Australian

3-9. IC PIN FUNCTION

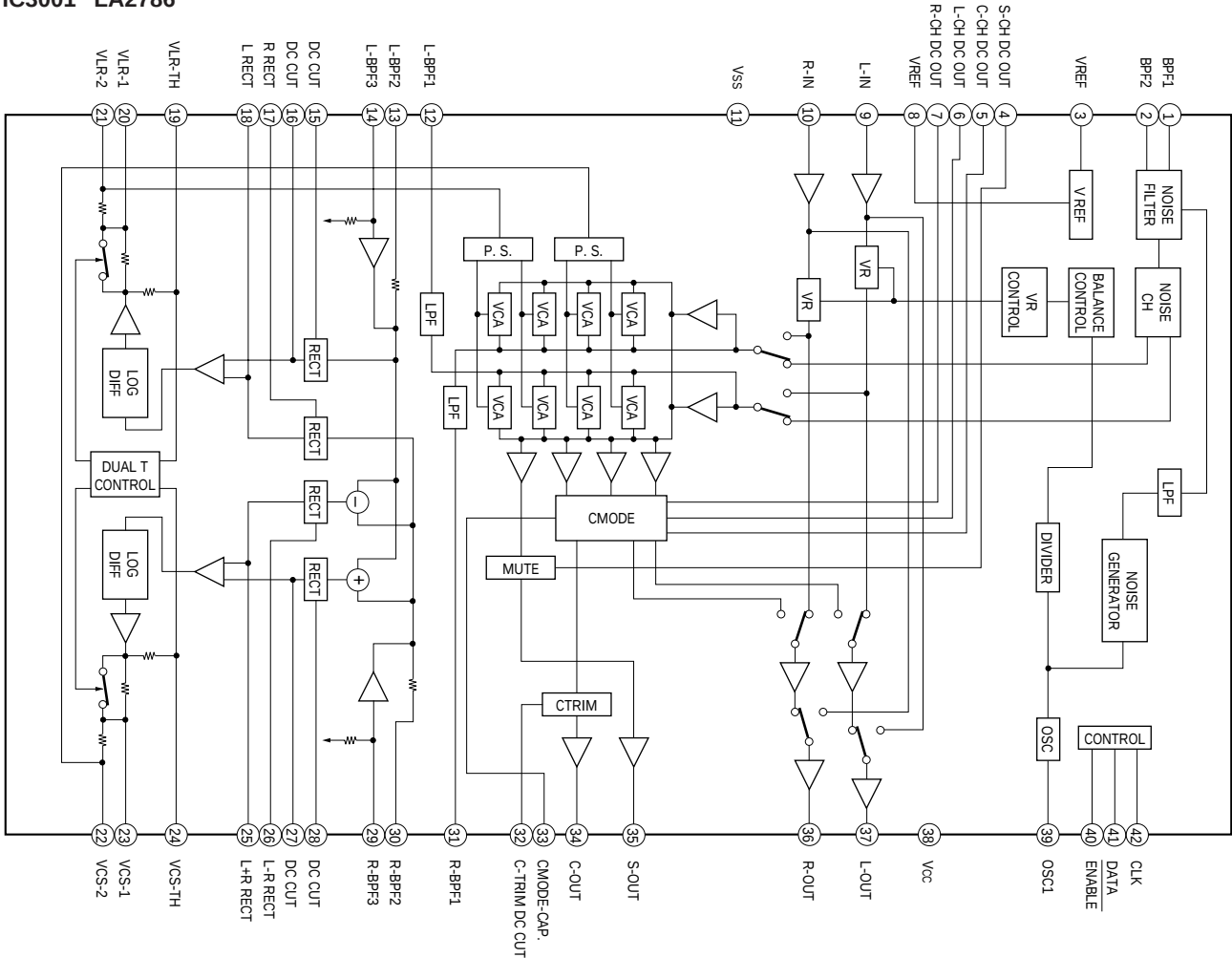
• IC501 TMP87CM75F-6623 (DISPLAY CONTROL)

Pin No.	Pin Name	I/O	Description
1	NC	—	Not used
2	VG	—	Power supply (–35V)
3	COM CLK	O	Transfer clock output serial data
4	ST DATA IN	I	Serial data input
5	COM DATA	O	Serial data output
6	ST CE	O	Chip enable output
7	LED LAT	O	Latch output to IC504
8	POWER ON/OFF	O	H : D542, D543 ON
9	STEREO	I	Stereo signal input
10	TUNED	I	Tuned signal input
11	Vss	—	Power supply (Ground)
12	X OUT	O	Oscillator connection terminal (8MHz)
13	X IN	I	Oscillator connection terminal (8MHz)
14	RESET	I	Reset signal input terminal
15	XT OUT	O	Oscillator connection terminal (32.768kHz)
16	XT IN	I	Oscillator connection terminal (32.768kHz)
17	GND	—	Not used (Ground)
18	BACK UP	I	AC Power supply off
19	RDS DATA	I	RDS DATA input
20	RDS CLK	I	RDS clock input
21	SIRCS IN	I	SIRCS signal input
22	JOG IN B	I	JOG dial encoder input
23	VOL IN B	I	Volum encoder input
24	VOL IN A	I	Volum encoder input
25	JOG IN A	I	JOG dial encoder input
26	AUB IN	—	Not used
27	12C CLK	I/O	12C clock I/O
28	12C DATA	I/O	12C data I/O
29	AUB OUT	—	Not used
30	VDD	—	Power supply (5V)
31	Vss	—	Power supply (Ground)
32	EQ LAT	O	Latch output to IC105
33	VR LAT	O	Latch output to IC2002
34	TA MUTE	O	Mute output to transistor L : Mute ON
35	VIDEO MD	O	DBFB level control output L : DBFB HIGH
36	KEY CON LAT	O	Latch output to IC6003
37	KEY CON ON/OFF	O	H : Key con ON
38	POWER ON/OFF	O	L : SP relay ON
39	P LOG RELAY	—	Not used
40	KEY IN 0	I	Key data input (A/D converter)
41	KEY IN 1	I	Key data input (A/D converter)
42	KEY IN 2	I	Key data input (A/D converter)
43	SPEANA 0	I	Spectrum analyzer signal input
44	SPEANA 1	I	Spectrum analyzer signal input
45	SPEANA 2	I	Spectrum analyzer signal input
46	SPEANA 3	I	Spectrum analyzer signal input
47	SUFFIX	I	Input for model select
48	VASS	—	Power supply for analog (Ground)
49	VAREF	—	Power supply (+5V)
50	VDD	—	Power supply (Ground)

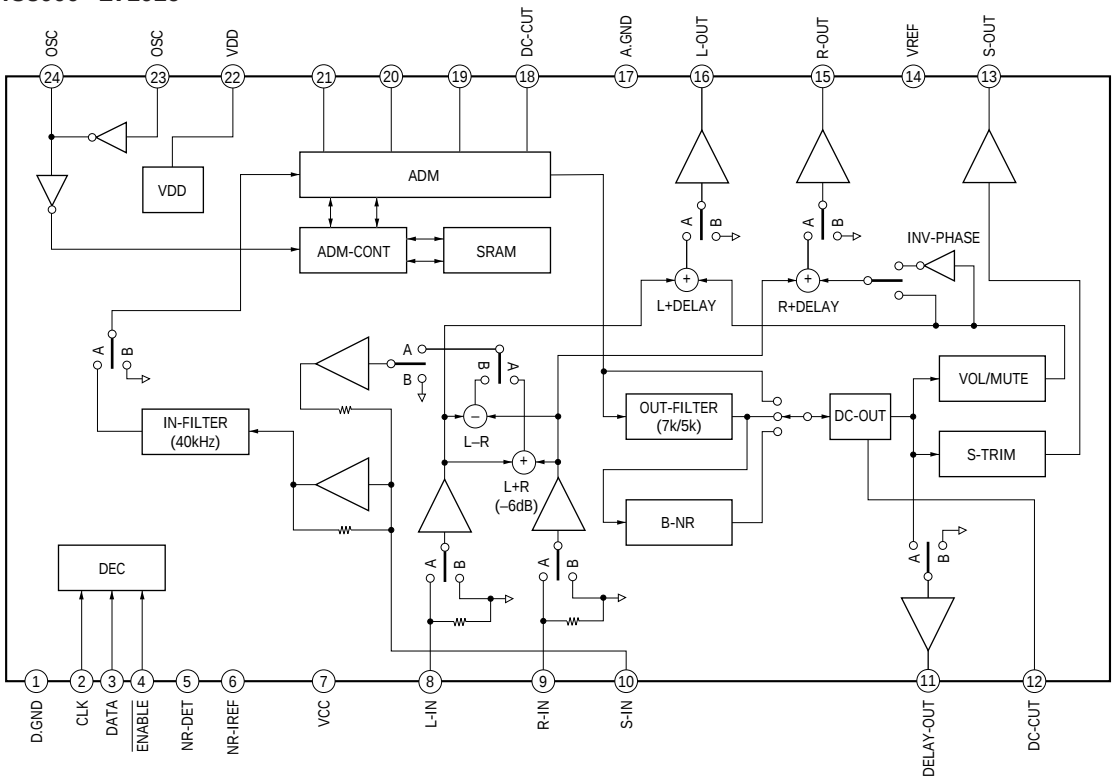
Pin No.	Pin Name	I/O	Description
51	FL-1G	O	
52	FL-2G	O	
53	FL-3G	O	
54	FL-4G	O	
55	FL-5G	O	
56	FL-6G	O	
57	FL-7G	O	Grid output to FL501
58	FL-8G	O	
59	FL-9G	O	
60	FL-10G	O	
61	FL-11G	O	
62	FL-12G	O	
63	FL-13G	O	
64	FL-14G	O	
65	FL-P1	O	
66	FL-P2	O	
67	FL-P3	O	
68	FL-P4	O	
69	FL-P5	O	
70	FL-P6	O	
71	FL-P7	O	
72	FL-P8	O	
73	FL-P9	O	
74	FL-P10	O	
75	FL-P11	O	
76	FL-P12	O	
77	FL-P13	O	
78	FL-P14	O	
79	FL-P15	O	
80	FL-P16	O	
81	FL-P17	O	Segment output to FL501
82	FL-P18	O	
83	FL-P19	O	
84	FL-P20	O	
85	FL-P21	O	
86	FL-P22	O	
87	FL-P23	O	
88	FL-P24	O	
89	FL-P25	O	
90	FL-P26	O	
91	FL-P27	O	
92	FL-P28	O	
93	FL-P29	O	
94	FL-P30	O	
95	FL-P31	O	
96	FL-P32	O	
97	FL-P33	O	
98	FL-P34	O	
99	ST MUTE	O	H : MUTE L : Signal Receiving
100	NC	—	Not used

3-10. IC BLOCK DIAGRAMS

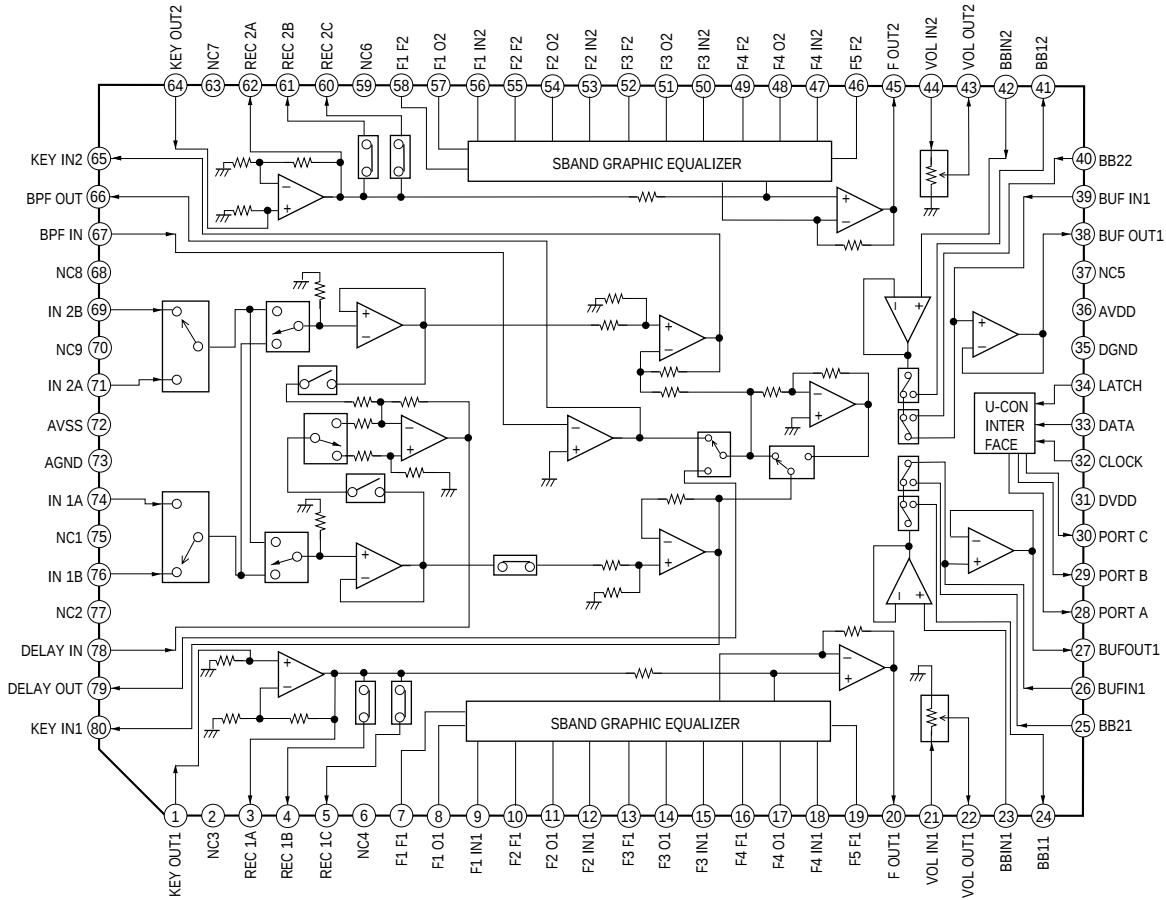
IC3001 LA2786



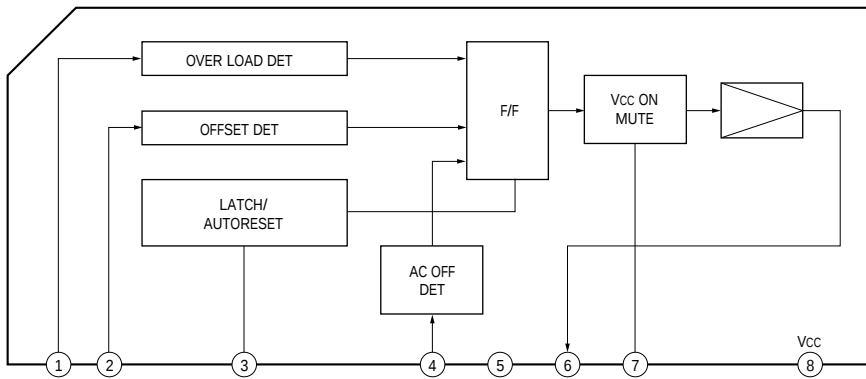
IC3000 LV1016



IC105 M62427FP-A



IC850 μ PC1237HA



SECTION 4 EXPLODED VIEWS

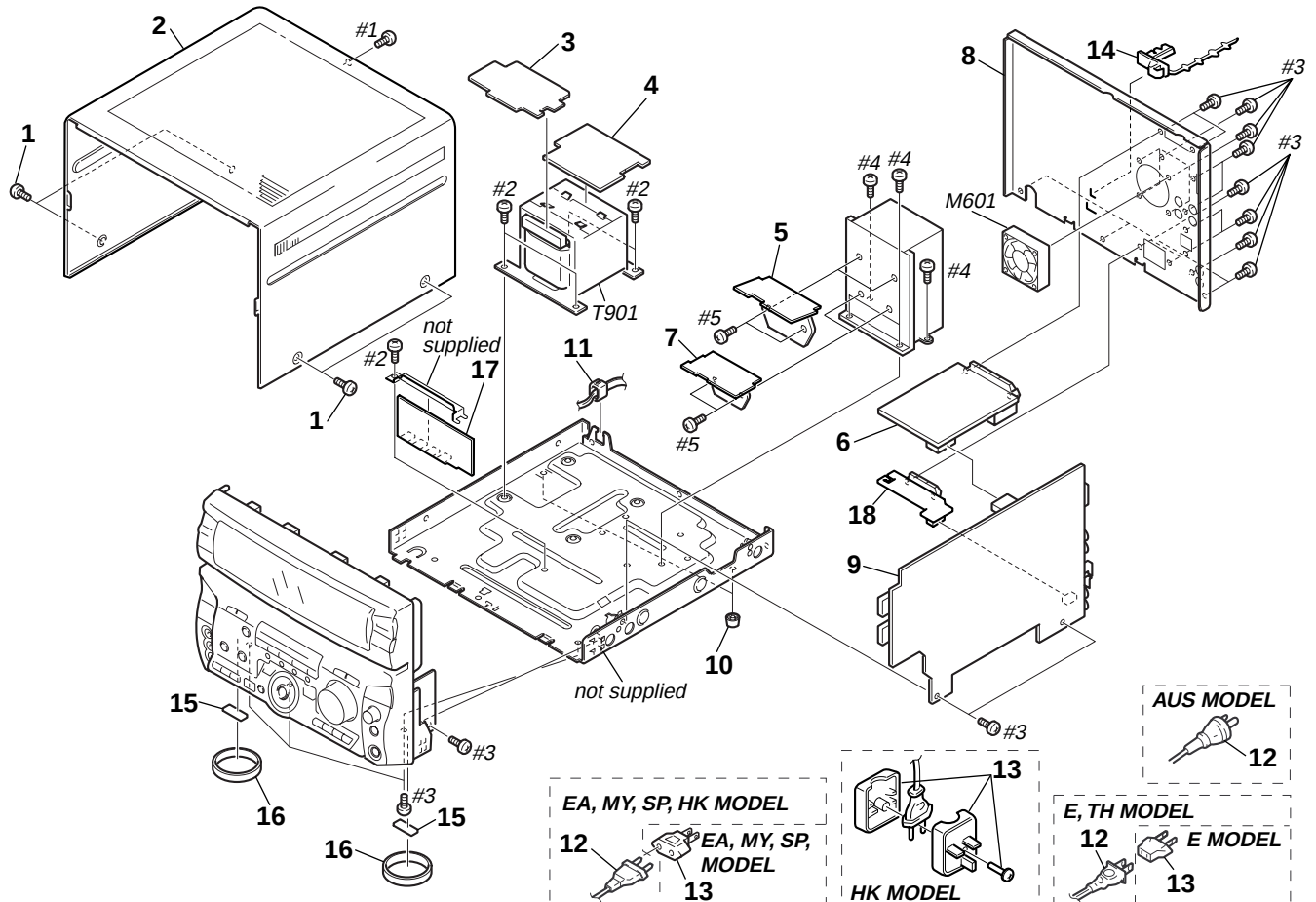
Note:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- The mechanical parts with no reference number in the exploded views are not supplied.
- Abbreviations
TH : Thai SP : Singapore
HK : Hong Kong EA : Saudi Arabia
AUS : Australian MY : Malaysia

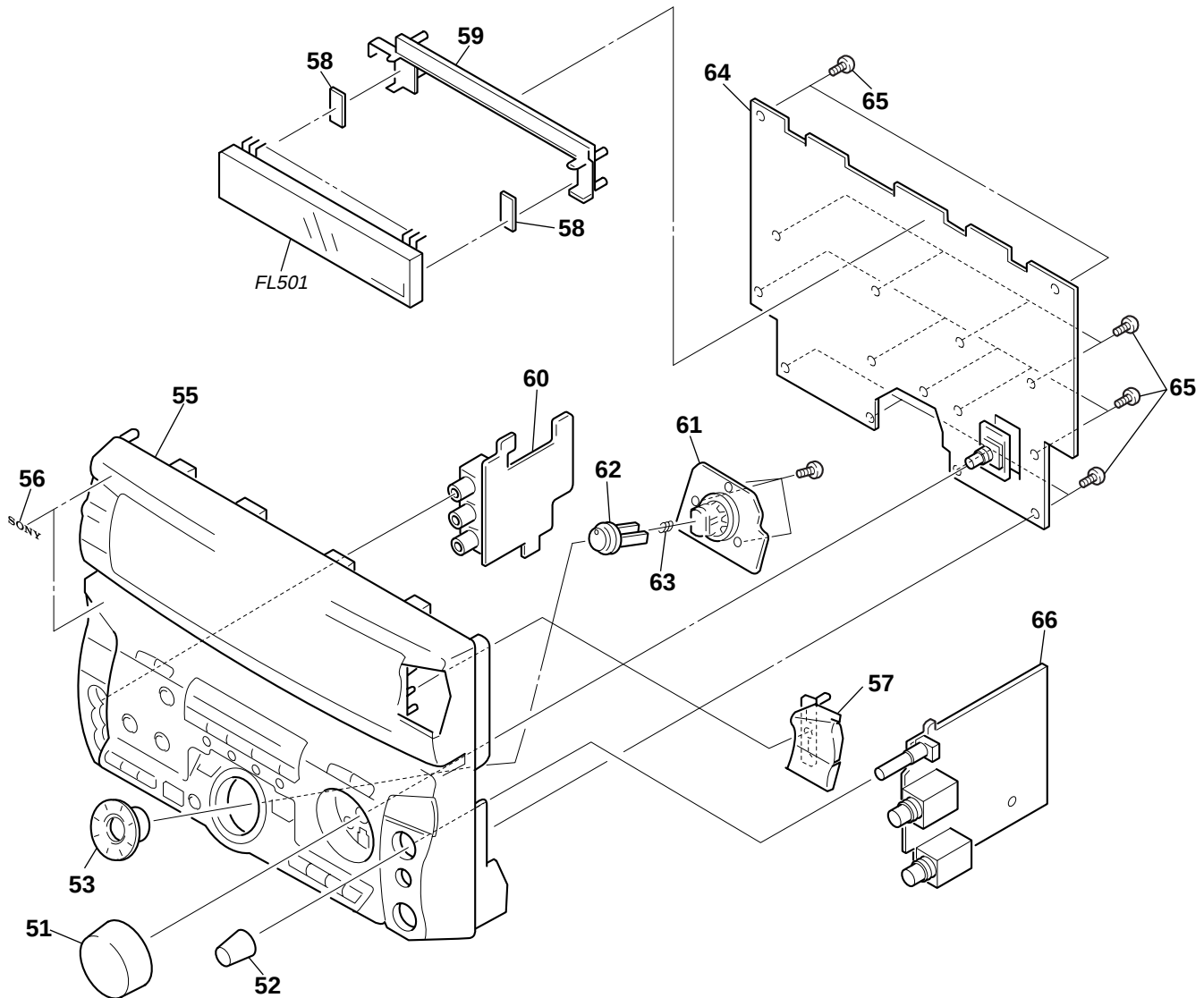
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

4-1. MAIN SECTION



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	3-363-099-11	SCREW (CASE 3 TP2)		* 9	A-4403-208-A	MAIN BOARD, COMPLETE (TH)	
* 2	4-991-364-11	CASE		10	4-970-381-11	FOOT (REAR)	
* 3	1-666-059-11	SEC BOARD		* 11	3-703-244-00	BUSHING (2104), CORD (EXCEPT TH)	
* 4	1-666-069-11	PRI BOARD		11	3-703-571-11	BUSHING (S) (4516), CORD (TH)	
* 5	A-4398-466-A	SURROUND AMP BOARD, COMPLETE (EXCEPT TH)		Δ 12	1-690-608-11	CORD, POWER (AUS)	
				Δ 12	1-751-326-31	CORD, POWER (TH)	
* 5	A-4403-217-A	SURROUND AMP BOARD, COMPLETE (TH)		Δ 12	1-777-071-21	CORD, POWER (EA, HK, MY, SP)	
6	1-233-545-21	ENCAPSULATED COMPONENT (AUS, TH)		Δ 12	1-782-315-11	CORD, POWER (E)	
6	1-233-546-21	ENCAPSULATED COMPONENT (EXCEPT AUS, TH)		Δ 13	1-569-007-11	ADAPTOR, CONVERSION 2P (E)	
* 7	1-666-070-11	AMP-A BOARD		Δ 13	1-569-008-21	ADAPTOR, CONVERSION 2P (EA, MY, SP)	
* 8	4-991-362-01	PANEL (WH3), BACK (E)		Δ 13	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (HK)	
* 8	4-991-362-11	PANEL (WH3), BACK (MY, SP)		14	4-956-370-12	BAND, PLUG FIXED (HK, AUS)	
* 8	4-991-362-21	PANEL (WH3), BACK (HK)		15	4-977-358-11	CUSHION (8X12.5)	
* 8	4-991-362-31	PANEL (WH3), BACK (AUS)		16	4-970-385-41	ORNAMENT (FOOT)	
* 8	4-991-362-41	PANEL (WH3), BACK (TH)		* 17	A-4398-997-A	SUPPLY POWER BOARD, COMPLETE	
* 8	4-991-362-51	PANEL (WH3), BACK (EA)		* 18	1-666-071-11	SUR BOARD	
* 9	A-4398-455-A	MAIN BOARD, COMPLETE (EXCEPT AUS, TH)		* 19	3-378-760-01	CUSHION, FIBER	
* 9	A-4398-456-A	MAIN BOARD, COMPLETE (AUS)		M601	1-698-792-11	FAN, DC	
				Δ T901	1-431-363-11	TRANSFORMER, POWER	

4-2. PANEL SECTION



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
51	4-991-318-01	KNOB (VOL)		* 60	1-666-060-11	AVIN BOARD	
52	4-991-324-01	KNOB (MIC)		* 61	1-666-062-11	JOG BOARD	
53	4-991-317-01	KNOB (JOG)		62	X-4948-611-1	BUTTON (E/N) ASSY	
55	X-4948-613-1	PANEL ASSY, FRONT		63	4-984-085-01	SPRING (ENTER), COMPRESSION	
56	4-962-708-11	EMBLEM (4-A), SONY		* 64	A-4398-467-A	PANEL BOARD, COMPLETE (EXCEPT AUS,TH)	
				* 64	A-4398-468-A	PANEL BOARD, COMPLETE (AUS)	
57	X-4948-612-1	DISPLAY ASSY, BUTTON		* 64	A-4403-218-A	PANEL BOARD, COMPLETE (TH)	
* 58	4-932-810-11	CUSHION (FL)		65	4-951-620-01	SCREW (2.6X8), +BVTP	
* 59	4-986-870-01	HOLDER, FL TUBE		* 66	1-666-057-11	MIC ECHO BOARD	
				FL501	1-517-618-11	INDICATOR TUBE, FLUORESCENT	

SECTION 5 ELECTRICAL PARTS LIST

AMP-A

Note:

When indicating parts by reference number, please include the board name.

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Abbreviations

TH : Thai SP : Singapore
HK : Hong Kong EA : Saudi Arabia
AUS : Australian MY : Malaysia

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
uF: μ F

- RESISTORS
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable
- COILS
uH: μ H
- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A..., uP A..., μ PA...,
uPB..., μ PB..., uPC..., μ PC...,
uPD..., μ PD...

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
*	1-666-070-11	AMP-A BOARD *****				< RESISTOR >	
		< CAPACITOR >		R901	1-249-417-11	CARBON 1K 5%	1/4W F
C900	1-162-306-11	CERAMIC 0.01uF 20% 16V		R902	1-249-437-11	CARBON 47K 5%	1/4W
C901	1-126-961-11	ELECT 2.2uF 20% 50V		R903	1-249-411-11	CARBON 330 5%	1/4W
C902	1-162-294-31	CERAMIC 0.001uF 10% 50V		R904	1-249-437-11	CARBON 47K 5%	1/4W
C903	1-162-282-31	CERAMIC 100PF 10% 50V		R906	1-249-429-11	CARBON 10K 5%	1/4W
C904	1-126-967-11	ELECT 47uF 20% 50V		R907	1-249-429-11	CARBON 10K 5%	1/4W
C905	1-126-967-11	ELECT 47uF 20% 50V		R908	1-249-429-11	CARBON 10K 5%	1/4W
C906	1-136-495-11	FILM 0.068uF 5% 50V		R909	1-249-429-11	CARBON 10K 5%	1/4W
C907	1-136-495-11	FILM 0.068uF 5% 50V		R910	1-249-397-11	CARBON 22 5%	1/4W F
C932	1-128-552-51	ELECT 47uF 20% 63V		R911	1-249-397-11	CARBON 22 5%	1/4W F
C933	1-128-581-11	ELECT 4.7uF 20% 63V		R913	1-249-417-11	CARBON 1K 5%	1/4W F
C934	1-128-552-51	ELECT 47uF 20% 63V		R914	1-249-431-11	CARBON 15K 5%	1/4W
C937	1-126-965-11	ELECT 22uF 20% 50V		R915	1-249-441-11	CARBON 100K 5%	1/4W
C938	1-126-934-11	ELECT 220uF 20% 16V		Δ R920	1-217-156-00	WIREWOUND 0.22 10%	5W F
C940	1-128-581-11	ELECT 4.7uF 20% 63V		Δ R932	1-212-881-11	FUSIBLE 100 5%	1/4W F
C951	1-126-961-11	ELECT 2.2uF 20% 50V		R933	1-249-421-11	CARBON 2.2K 5%	1/4W F
		(EXCEPT TH)		R934	1-249-421-11	CARBON 2.2K 5%	1/4W F
C951	1-126-963-11	ELECT 4.7uF 20% 50V	(TH)	R935	1-249-421-11	CARBON 2.2K 5%	1/4W F
C952	1-162-294-31	CERAMIC 0.001uF 10% 50V		R936	1-249-421-11	CARBON 2.2K 5%	1/4W F
C953	1-162-282-31	CERAMIC 100PF 10% 50V		R937	1-249-429-11	CARBON 10K 5%	1/4W
C954	1-126-967-11	ELECT 47uF 20% 50V		R938	1-247-883-00	CARBON 150K 5%	1/4W
C955	1-126-967-11	ELECT 47uF 20% 50V		R940	1-249-433-11	CARBON 22K 5%	1/4W
C956	1-136-495-11	FILM 0.068uF 5% 50V		R941	1-249-429-11	CARBON 10K 5%	1/4W
C957	1-136-495-11	FILM 0.068uF 5% 50V		R942	1-249-413-11	CARBON 470 5%	1/4W F
		< CONNECTOR >		Δ R943	1-212-881-11	FUSIBLE 100 5%	1/4W F
CN902	1-564-524-11	PLUG, CONNECTOR 9P		R944	1-249-417-11	CARBON 1K 5%	1/4W F
		< DIODE >		R945	1-249-417-11	CARBON 1K 5%	1/4W F
D903	8-719-987-63	DIODE 1N4148M		R951	1-249-417-11	CARBON 1K 5%	1/4W F
D953	8-719-987-63	DIODE 1N4148M		R952	1-249-437-11	CARBON 47K 5%	1/4W
		< IC >		R953	1-249-411-11	CARBON 330 5%	1/4W
IC901	8-749-921-04	IC STK-4211MK-2		R954	1-249-437-11	CARBON 47K 5%	1/4W
		< TRANSISTOR >		R956	1-249-429-11	CARBON 10K 5%	1/4W
Q901	8-729-900-80	TRANSISTOR DTC114ES		R957	1-249-429-11	CARBON 10K 5%	1/4W
Q902	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA		R958	1-249-429-11	CARBON 10K 5%	1/4W
Q952	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA		R959	1-249-429-11	CARBON 10K 5%	1/4W
				R960	1-249-397-11	CARBON 22 5%	1/4W F
				R961	1-249-397-11	CARBON 22 5%	1/4W F
				R963	1-249-417-11	CARBON 1K 5%	1/4W F
				R964	1-249-431-11	CARBON 15K 5%	1/4W
				R965	1-249-441-11	CARBON 100K 5%	1/4W
				Δ R970	1-217-156-00	WIREWOUND 0.22 10%	5W F

Ref. No.	Part No.	Description	Remarks			
*	1-666-060-11	AVIN BOARD *****				
< CAPACITOR >						
C6301	1-162-286-31	CERAMIC	220PF	10%	50V	
C6302	1-162-286-31	CERAMIC	220PF	10%	50V	
C6303	1-162-306-11	CERAMIC	0.01uF	20%	16V	
< CONNECTOR >						
CN6301	1-564-524-11	PLUG, CONNECTOR 9P				
< DIODE >						
D6300	8-719-987-63	DIODE 1N4148M				
< JACK >						
J6301	1-779-583-11	JACK, PIN 3P (AV INPUT)				
< RESISTOR >						
R6301	1-249-417-11	CARBON	1K	5%	1/4W	F
R6302	1-249-417-11	CARBON	1K	5%	1/4W	F
R6303	1-249-441-11	CARBON	100K	5%	1/4W	
R6304	1-249-441-11	CARBON	100K	5%	1/4W	
< RELAY >						
RY6300	1-515-622-11	RELAY				

*	1-666-062-11	JOG BOARD *****				
< DIODE >						
D512	8-719-046-44	DIODE SEL5221S				
D513	8-719-046-44	DIODE SEL5221S				
D514	8-719-046-44	DIODE SEL5221S				
< RESISTOR >						
R537	1-249-407-11	CARBON	150	5%	1/4W	F
R538	1-249-401-11	CARBON	47	5%	1/4W	F
R541	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R644	1-249-429-11	CARBON	10K	5%	1/4W	
R645	1-249-429-11	CARBON	10K	5%	1/4W	
< SWITCH >						
S534	1-762-751-11	SWITCH, TACTILE (ENTER/NEXT)				
S536	1-762-874-11	SWITCH, JOG (MULTI JOG STATION)				

*	A-4398-455-A	MAIN BOARD, COMPLETE (EXCEPT AUS TH) *****				
*	A-4398-456-A	MAIN BOARD, COMPLETE (AUS) *****				
*	A-4403-208-A	MAIN BOARD, COMPLETE (TH) *****				
< CAPACITOR >						
C101	1-136-167-00	FILM	0.15uF	5%	50V	
C102	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C103	1-136-169-00	FILM	0.22uF	5%	50V	
C104	1-136-169-00	FILM	0.22uF	5%	50V	
C105	1-137-375-11	FILM	0.068uF	5%	50V	

Ref. No.	Part No.	Description	Remarks			
C106	1-137-375-11	FILM	0.068uF	5%	50V	
C107	1-137-440-11	FILM	0.018uF	5%	50V	
C108	1-137-440-11	FILM	0.018uF	5%	50V	
C109	1-137-437-11	FILM	0.0056uF	5%	50V	
C110	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C111	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C112	1-126-964-11	ELECT	10uF	20%	50V	
C113	1-126-963-11	ELECT	4.7uF	20%	50V	
C114	1-136-167-00	FILM	0.15uF	5%	50V	(TH)
C114	1-136-166-00	FILM	0.12uF	5%	50V	(EXCEPT TH)
C115	1-136-167-00	FILM	0.15uF	5%	50V	(TH)
C115	1-136-166-00	FILM	0.12uF	5%	50V	(EXCEPT TH)
C116	1-126-961-11	ELECT	2.2uF	20%	50V	
C117	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C118	1-126-964-11	ELECT	10uF	20%	50V	
C120	1-126-959-11	ELECT	0.47uF	20%	50V	
C121	1-162-303-11	CERAMIC	0.0033uF	30%	16V	(TH)
C122	1-126-934-11	ELECT	220uF	20%	16V	
C130	1-164-159-11	CERAMIC	0.1uF		50V	
C153	1-136-169-00	FILM	0.22uF	5%	50V	
C154	1-136-169-00	FILM	0.22uF	5%	50V	
C155	1-137-375-11	FILM	0.068uF	5%	50V	
C156	1-137-375-11	FILM	0.068uF	5%	50V	
C157	1-137-440-11	FILM	0.018uF	5%	50V	
C158	1-137-440-11	FILM	0.018uF	5%	50V	
C159	1-137-437-11	FILM	0.0056uF	5%	50V	
C160	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C161	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C162	1-126-964-11	ELECT	10uF	20%	50V	
C163	1-126-963-11	ELECT	4.7uF	20%	50V	
C164	1-136-167-00	FILM	0.15uF	5%	50V	(TH)
C164	1-136-166-00	FILM	0.12uF	5%	50V	(EXCEPT TH)
C165	1-136-167-00	FILM	0.15uF	5%	50V	(TH)
C165	1-136-166-00	FILM	0.12uF	5%	50V	(EXCEPT TH)
C166	1-126-961-11	ELECT	2.2uF	20%	50V	
C171	1-162-303-11	CERAMIC	0.0033uF	30%	16V	(TH)
C181	1-162-292-31	CERAMIC	680PF	10%	50V	
C182	1-126-960-11	ELECT	1uF	20%	50V	
C183	1-126-961-11	ELECT	2.2uF	20%	50V	
C184	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C191	1-126-963-11	ELECT	4.7uF	20%	50V	
C602	1-104-664-11	ELECT	47uF	20%	25V	
C603	1-104-664-11	ELECT	47uF	20%	25V	
C604	1-104-664-11	ELECT	47uF	20%	25V	
C610	1-126-964-11	ELECT	10uF	20%	50V	
C702	1-126-963-11	ELECT	4.7uF	20%	50V	
C731	1-126-964-11	ELECT	10uF	20%	50V	
C732	1-126-964-11	ELECT	10uF	20%	50V	
C752	1-126-963-11	ELECT	4.7uF	20%	50V	
C801	1-136-165-00	FILM	0.1uF	5%	50V	

Ref. No.	Part No.	Description				Remarks	Ref. No.	Part No.	Description				Remarks
C802	1-136-165-00	FILM	0.1uF	5%	50V		C3038	1-126-964-11	ELECT	10uF	20%	50V	
C803	1-104-482-11	ELECT	4700uF	20%	63V		C3039	1-126-964-11	ELECT	10uF	20%	50V	
C804	1-104-482-11	ELECT	4700uF	20%	63V		C3040	1-126-964-11	ELECT	10uF	20%	50V	
C807	1-126-964-11	ELECT	10uF	20%	50V		C3041	1-126-923-11	ELECT	220uF	20%	10V	
C808	1-126-948-11	ELECT	100uF	20%	35V		C3042	1-126-962-11	ELECT	3.3uF	20%	50V	
(TH)							C3043	1-126-962-11	ELECT	3.3uF	20%	50V	
C808	1-126-964-11	ELECT	10uF	20%	50V		C3044	1-136-165-00	FILM	0.1uF	5%	50V	
(EXCEPT TH)							C3045	1-136-165-00	FILM	0.1uF	5%	50V	
C852	1-126-923-11	ELECT	220uF	20%	10V		C3046	1-126-959-11	ELECT	0.47uF	20%	50V	
C853	1-126-933-11	ELECT	100uF	20%	10V		C3047	1-126-963-11	ELECT	4.7uF	20%	50V	
C858	1-126-967-11	ELECT	47uF	20%	10V								
C859	1-126-961-11	ELECT	2.2uF	20%	50V		C3048	1-126-959-11	ELECT	0.47uF	20%	50V	
C860	1-126-964-11	ELECT	10uF	20%	50V		C3049	1-126-963-11	ELECT	4.7uF	20%	50V	
(EXCEPT TH)							C3050	1-136-167-00	FILM	0.15uF	5%	50V	
C861	1-164-159-11	CERAMIC	0.1uF		50V		C3051	1-126-962-11	ELECT	3.3uF	20%	50V	
C2001	1-162-215-31	CERAMIC	47PF	5%	50V		C3052	1-136-167-00	FILM	0.15uF	5%	50V	
C2002	1-126-963-11	ELECT	4.7uF	20%	50V								
C2005	1-126-961-11	ELECT	2.2uF	20%	50V		C3058	1-164-159-11	CERAMIC	0.1uF		50V	
< CONNECTOR >													
C2023	1-126-964-11	ELECT	10uF	20%	50V								
C2024	1-126-964-11	ELECT	10uF	20%	50V		CN102	1-564-506-11	PLUG, CONNECTOR 3P				
C2025	1-162-306-11	CERAMIC	0.01uF	20%	16V		CN103	1-774-289-11	PIN, CONNECTOR (PC BOARD) 15P				
C2026	1-162-306-11	CERAMIC	0.01uF	20%	16V		CN105	1-774-336-11	SOCKET, CONNECTOR(PC BOARD)14P				
C2051	1-162-215-31	CERAMIC	47PF	5%	50V		CN106	1-774-336-11	SOCKET, CONNECTOR(PC BOARD)14P				
C2052	1-126-963-11	ELECT	4.7uF	20%	50V		* CN811	1-569-498-11	SOCKET, CONNECTOR 12P				
C2055	1-126-961-11	ELECT	2.2uF	20%	50V								
C3002	1-126-923-11	ELECT	220uF	20%	10V		CN2003	1-691-765-41	PLUG (MICRO CONNECTOR) 3P				
C3003	1-136-164-00	FILM	0.082uF	5%	50V		* CN6002	1-568-937-11	PIN, CONNECTOR 10P				
C3004	1-162-303-11	CERAMIC	0.0033uF	30%	16V		CN6003	1-770-722-11	CONNECTOR, BOARD TO BOARD 6P				
< CONNECTOR >													
C3005	1-136-164-00	FILM	0.082uF	5%	50V								
C3006	1-126-959-11	ELECT	0.47uF	20%	50V		* CNP701	1-764-017-21	HOUSING,CONNECTOR(PC BOARD)17P				
C3007	1-126-964-11	ELECT	10uF	20%	50V								(SYSTEM CONTROL)
C3008	1-126-964-11	ELECT	10uF	20%	50V		< DIODE >						
C3009	1-162-294-31	CERAMIC	0.001uF	10%	50V								
C3010	1-126-963-11	ELECT	4.7uF	20%	50V		D101	8-719-987-63	DIODE	1N4148M			
C3011	1-126-961-11	ELECT	2.2uF	20%	50V		D102	8-719-987-63	DIODE	1N4148M			
C3012	1-164-159-11	CERAMIC	0.1uF		50V		D601	8-719-024-99	DIODE	11ES2-NTA2B			
C3013	1-164-159-11	CERAMIC	0.1uF		50V		D610	8-719-987-63	DIODE	1N4148M			
C3014	1-126-923-11	ELECT	220uF	20%	10V		D670	8-719-987-63	DIODE	1N4148M			
C3015	1-136-159-00	FILM	0.033uF	5%	50V		D690	8-719-987-63	DIODE	1N4148M			
C3016	1-124-252-00	ELECT	0.33uF	20%	50V		D691	8-719-987-63	DIODE	1N4148M			
C3017	1-126-933-11	ELECT	100uF	20%	10V		D701	8-719-024-99	DIODE	11ES2-NTA2B			
C3018	1-162-292-31	CERAMIC	680PF	10%	50V		D703	8-719-024-99	DIODE	11ES2-NTA2B			
C3022	1-126-963-11	ELECT	4.7uF	20%	50V		D704	8-719-024-99	DIODE	11ES2-NTA2B			
C3023	1-136-173-00	FILM	0.47uF	5%	50V		D801	8-719-302-38	DIODE	RBV-602-01			
C3024	1-126-967-11	ELECT	47uF	20%	10V		D809	8-719-987-63	DIODE	1N4148M			
C3025	1-136-165-00	FILM	0.1uF	5%	50V		D810	8-719-987-63	DIODE	1N4148M			
C3026	1-136-165-00	FILM	0.1uF	5%	50V		D811	8-719-934-22	DIODE	HZS30-2L			
C3027	1-126-959-11	ELECT	0.47uF	20%	50V		D821	8-719-987-63	DIODE	1N4148M			
C3028	1-126-963-11	ELECT	4.7uF	20%	50V		D824	8-719-024-99	DIODE	11ES2-NTA2B			
C3029	1-126-959-11	ELECT	0.47uF	20%	50V		D830	8-719-024-99	DIODE	11ES2-NTA2B			
C3030	1-126-963-11	ELECT	4.7uF	20%	50V		D840	8-719-987-63	DIODE	1N4148M			
C3031	1-136-167-00	FILM	0.15uF	5%	50V		D841	8-719-987-63	DIODE	1N4148M			
C3032	1-126-962-11	ELECT	3.3uF	20%	50V		D852	8-719-987-63	DIODE	1N4148M			
C3033	1-136-167-00	FILM	0.15uF	5%	50V		D1021	8-719-987-63	DIODE	1N4148M			
C3034	1-136-157-00	FILM	0.022uF	5%	50V		D2001	8-719-987-63	DIODE	1N4148M			
C3035	1-136-161-00	FILM	0.047uF	5%	50V		D2002	8-719-024-99	DIODE	11ES2-NTA2B			
C3036	1-126-923-11	ELECT	220uF	20%	10V		< TERMINAL >						
C3037	1-126-964-11	ELECT	10uF	20%	50V		* E801	1-537-738-21	TERMINAL, EARTH				

MAIN

Ref. No.	Part No.	Description	Remarks
< IC >			
IC101	8-759-634-51	IC M5218AP	
IC105	8-759-460-02	IC M62427FP-A	
IC701	8-759-000-47	IC MC14051BCP	
IC702	8-759-000-47	IC MC14051BCP	
IC850	8-759-111-68	IC uPC1237HA	
IC2001	8-759-634-50	IC M5218AL	
IC2002	8-759-281-42	IC TC9210P	
IC3000	8-759-442-97	IC LV1016	
IC3001	8-759-442-96	IC LA2786	
< JACK >			
J701	1-770-614-11	JACK, PIN 4P (MD/VIDEO)	
J901	1-779-379-11	JACK, PIN 2P (SUPER WOOFER/MONITOR)	
< COIL >			
L3001	1-410-509-11	INDUCTOR 10uH	
L3002	1-410-509-11	INDUCTOR 10uH	
< TRANSISTOR >			
Q111	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q111	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q112	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q112	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q161	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q161	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q162	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q162	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q190	8-729-422-57	TRANSISTOR UN4111	
Q191	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q192	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q602	8-729-111-29	TRANSISTOR 2SD1616A-K	
Q604	8-729-422-57	TRANSISTOR UN4111	
Q606	8-729-801-94	TRANSISTOR 2SD1387-4	
Q801	8-729-141-83	TRANSISTOR 2SB1094-LK	
Q810	8-729-900-80	TRANSISTOR DTC114ES	
Q856	8-729-900-80	TRANSISTOR DTC114ES	
Q857	8-729-900-63	TRANSISTOR DTA124ES	
Q2001	8-729-111-29	TRANSISTOR 2SD1616A-K	
Q2010	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q2051	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q2100	8-729-141-26	TRANSISTOR 2SC3622A-LK	
< RESISTOR >			
R101	1-249-429-11	CARBON 10K 5%	1/4W
R102	1-249-429-11	CARBON 10K 5%	1/4W
R103	1-249-429-11	CARBON 10K 5%	1/4W
R104	1-249-429-11	CARBON 10K 5%	1/4W
R105	1-249-429-11	CARBON 10K 5%	1/4W
R108	1-247-887-00	CARBON 220K 5%	1/4W
R108	1-247-897-11	CARBON 560K 5%	1/4W
R109	1-249-417-11	CARBON 1K 5%	1/4W F
R109	1-249-419-11	CARBON 1.5K 5%	1/4W F
R110	1-249-433-11	CARBON 22K 5%	1/4W

Ref. No.	Part No.	Description	Remarks
R111	1-249-441-11	CARBON 100K 5%	1/4W
R112	1-249-421-11	CARBON 2.2K 5%	1/4W F
R113	1-249-435-11	CARBON 33K 5%	1/4W
R115	1-249-441-11	CARBON 100K 5%	1/4W
R115	1-249-439-11	CARBON 68K 5%	1/4W
R116	1-249-437-11	CARBON 47K 5%	1/4W
R117	1-247-903-00	CARBON 1M 5%	1/4W
R118	1-249-417-11	CARBON 1K 5%	1/4W F
R119	1-249-437-11	CARBON 47K 5%	1/4W
R119	1-249-433-11	CARBON 22K 5%	1/4W
R120	1-249-437-11	CARBON 47K 5%	1/4W
R122	1-247-903-00	CARBON 1M 5%	1/4W
R123	1-249-433-11	CARBON 22K 5%	1/4W
R124	1-249-437-11	CARBON 47K 5%	1/4W
R125	1-247-807-31	CARBON 100 5%	1/4W
R126	1-249-429-11	CARBON 10K 5%	1/4W
R129	1-247-887-00	CARBON 220K 5%	1/4W
R137	1-247-807-31	CARBON 100 5%	1/4W
R138	1-247-807-31	CARBON 100 5%	1/4W
R139	1-247-807-31	CARBON 100 5%	1/4W
R140	1-247-807-31	CARBON 100 5%	1/4W
R141	1-247-807-31	CARBON 100 5%	1/4W
R142	1-247-807-31	CARBON 100 5%	1/4W
R151	1-249-429-11	CARBON 10K 5%	1/4W
R152	1-249-429-11	CARBON 10K 5%	1/4W
R153	1-249-429-11	CARBON 10K 5%	1/4W
R154	1-249-429-11	CARBON 10K 5%	1/4W
R155	1-249-429-11	CARBON 10K 5%	1/4W
R156	1-249-429-11	CARBON 10K 5%	1/4W
R158	1-247-887-00	CARBON 220K 5%	1/4W
R158	1-247-897-11	CARBON 560K 5%	1/4W
R159	1-249-417-11	CARBON 1K 5%	1/4W F
R159	1-249-419-11	CARBON 1.5K 5%	1/4W F
R160	1-249-433-11	CARBON 22K 5%	1/4W
R161	1-249-441-11	CARBON 100K 5%	1/4W
R162	1-249-421-11	CARBON 2.2K 5%	1/4W F
R163	1-249-435-11	CARBON 33K 5%	1/4W
R165	1-249-441-11	CARBON 100K 5%	1/4W
R165	1-249-439-11	CARBON 68K 5%	1/4W
R167	1-249-441-11	CARBON 100K 5%	1/4W
R172	1-247-903-00	CARBON 1M 5%	1/4W
R173	1-249-433-11	CARBON 22K 5%	1/4W
R174	1-249-437-11	CARBON 47K 5%	1/4W
R176	1-249-429-11	CARBON 10K 5%	1/4W
R177	1-249-437-11	CARBON 47K 5%	1/4W
R178	1-249-437-11	CARBON 47K 5%	1/4W
R178	1-249-433-11	CARBON 22K 5%	1/4W
R180	1-249-429-11	CARBON 10K 5%	1/4W
R181	1-247-895-00	CARBON 470K 5%	1/4W
R182	1-247-895-00	CARBON 470K 5%	1/4W

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R183	1-249-441-11	CARBON	100K	5%	1/4W	R2003	1-249-429-11	CARBON	10K	5%	1/4W
R184	1-249-425-11	CARBON	4.7K	5%	1/4W F	R2004	1-249-429-11	CARBON	10K	5%	1/4W
					(TH)	R2005	1-249-441-11	CARBON	100K	5%	1/4W
R184	1-249-429-11	CARBON	10K	5%	1/4W	R2006	1-249-421-11	CARBON	2.2K	5%	1/4W F
					(EXCEPT TH)	R2007	1-249-425-11	CARBON	4.7K	5%	1/4W F
R185	1-249-425-11	CARBON	4.7K	5%	1/4W F						
R186	1-249-441-11	CARBON	100K	5%	1/4W	R2010	1-249-441-11	CARBON	100K	5%	1/4W
						△ R2030	1-215-863-11	METAL OXIDE	100	5%	1W F
R190	1-249-441-11	CARBON	100K	5%	1/4W	R2051	1-249-417-11	CARBON	1K	5%	1/4W F
R191	1-249-417-11	CARBON	1K	5%	1/4W F	R2052	1-249-441-11	CARBON	100K	5%	1/4W
R192	1-249-425-11	CARBON	4.7K	5%	1/4W F	R2053	1-249-431-11	CARBON	15K	5%	1/4W
R195	1-249-425-11	CARBON	4.7K	5%	1/4W F						
R196	1-247-807-31	CARBON	100	5%	1/4W	R2054	1-249-429-11	CARBON	10K	5%	1/4W
						R2055	1-249-441-11	CARBON	100K	5%	1/4W
R601	1-249-425-11	CARBON	4.7K	5%	1/4W F	R2056	1-249-421-11	CARBON	2.2K	5%	1/4W F
R602	1-249-429-11	CARBON	10K	5%	1/4W	R2057	1-249-425-11	CARBON	4.7K	5%	1/4W F
R603	1-249-421-11	CARBON	2.2K	5%	1/4W F	R2060	1-249-441-11	CARBON	100K	5%	1/4W
R604	1-249-435-11	CARBON	33K	5%	1/4W						
R620	1-249-431-11	CARBON	15K	5%	1/4W	R2101	1-249-425-11	CARBON	4.7K	5%	1/4W F
						R2102	1-249-437-11	CARBON	47K	5%	1/4W
R670	1-249-431-11	CARBON	15K	5%	1/4W	R3000	1-247-903-00	CARBON	1M	5%	1/4W
R690	1-249-432-11	CARBON	18K	5%	1/4W	R3001	1-249-411-11	CARBON	330	5%	1/4W
R691	1-249-432-11	CARBON	18K	5%	1/4W	R3002	1-249-432-11	CARBON	18K	5%	1/4W
R702	1-249-417-11	CARBON	1K	5%	1/4W F						
R703	1-249-441-11	CARBON	100K	5%	1/4W	R3006	1-249-436-11	CARBON	39K	5%	1/4W
						R3007	1-249-436-11	CARBON	39K	5%	1/4W
R704	1-249-425-11	CARBON	4.7K	5%	1/4W F	R3008	1-249-417-11	CARBON	1K	5%	1/4W F
R705	1-249-425-11	CARBON	4.7K	5%	1/4W F	R3009	1-249-417-11	CARBON	1K	5%	1/4W F
R707	1-249-441-11	CARBON	100K	5%	1/4W	R3010	1-249-417-11	CARBON	1K	5%	1/4W F
R710	1-249-417-11	CARBON	1K	5%	1/4W F						
R711	1-249-417-11	CARBON	1K	5%	1/4W F	R3030	1-249-417-11	CARBON	1K	5%	1/4W F
					(EXCEPT TH)	R3031	1-249-441-11	CARBON	100K	5%	1/4W
						R3040	1-249-417-11	CARBON	1K	5%	1/4W F
R752	1-249-417-11	CARBON	1K	5%	1/4W F	R3041	1-249-441-11	CARBON	100K	5%	1/4W
R753	1-249-441-11	CARBON	100K	5%	1/4W	R3100	1-247-807-31	CARBON	100	5%	1/4W
R754	1-249-425-11	CARBON	4.7K	5%	1/4W F						
R755	1-249-425-11	CARBON	4.7K	5%	1/4W F	R3107	1-249-441-11	CARBON	100K	5%	1/4W
R757	1-249-441-11	CARBON	100K	5%	1/4W	R3207	1-249-441-11	CARBON	100K	5%	1/4W
								< RELAY >			
R760	1-249-417-11	CARBON	1K	5%	1/4W F						
R761	1-249-417-11	CARBON	1K	5%	1/4W F						
					(EXCEPT TH)	RY801	1-515-920-11	RELAY (24V)			
△ R801	1-212-982-00	FUSIBLE	100	5%	1/2W F	RY2001	1-515-920-11	RELAY (24V)			
R804	1-249-417-11	CARBON	1K	5%	1/4W F						
R818	1-249-431-11	CARBON	15K	5%	1/4W			< TERMINAL >			
R819	1-249-431-11	CARBON	15K	5%	1/4W	TB901	1-537-240-31	TERMINAL BOARD (CHECKER PIN)			
R840	1-249-429-11	CARBON	10K	5%	1/4W			(FRONT SPEAKER)			
R851	1-249-430-11	CARBON	12K	5%	1/4W						
R853	1-249-397-11	CARBON	22	5%	1/4W F			< VIBRATOR >			
R854	1-249-441-11	CARBON	100K	5%	1/4W						
						X3001	1-579-952-21	VIBRATOR, CERAMIC 8MHz			
R856	1-249-429-11	CARBON	10K	5%	1/4W	*****					
R857	1-249-435-11	CARBON	33K	5%	1/4W						
R858	1-249-437-11	CARBON	47K	5%	1/4W	*	1-666-057-11	MIC ECHO BOARD			
R859	1-249-439-11	CARBON	68K	5%	1/4W			*****			
R860	1-249-425-11	CARBON	4.7K	5%	1/4W F						
					(TH)			< CAPACITOR >			
R860	1-249-431-11	CARBON	15K	5%	1/4W	C6001	1-162-306-11	CERAMIC	0.01uF	20%	16V
					(EXCEPT TH)	C6003	1-124-257-00	ELECT	2.2uF	20%	50V
R861	1-249-439-11	CARBON	68K	5%	1/4W	C6005	1-162-215-31	CERAMIC	47PF	5%	50V
R862	1-249-437-11	CARBON	47K	5%	1/4W	C6006	1-162-290-31	CERAMIC	470PF	10%	50V
△ R865	1-249-389-11	CARBON	4.7	5%	1/4W F	C6023	1-162-215-31	CERAMIC	47PF	5%	50V
△ R870	1-215-887-00	METAL OXIDE	150	5%	2W F						
R1001	1-249-429-11	CARBON	10K	5%	1/4W	C6024	1-162-282-31	CERAMIC	100PF	10%	50V
						C6025	1-124-257-00	ELECT	2.2uF	20%	50V
R1002	1-249-429-11	CARBON	10K	5%	1/4W	C6026	1-124-261-00	ELECT	10uF	20%	50V
R1020	1-249-425-11	CARBON	4.7K	5%	1/4W F	C6027	1-124-261-00	ELECT	10uF	20%	50V
R1021	1-249-417-11	CARBON	1K	5%	1/4W F	C6030	1-124-465-00	ELECT	0.47uF	20%	50V
R2001	1-249-417-11	CARBON	1K	5%	1/4W F						
R2002	1-249-441-11	CARBON	100K	5%	1/4W						
						The components identified by mark △ or dotted					

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

MIC ECHO

PANEL

VOLUME

Ref. No.	Part No.	Description				Remarks
C6032	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C6033	1-162-306-11	CERAMIC	0.01uF	20%	16V	
< TERMINAL >						
* G6001	1-537-738-21	TERMINAL, EARTH				
< IC >						
IC6001	8-759-634-51	IC M5218AP				
< JACK >						
J6001	1-770-226-11	JACK (LARGE TYPE)(MIX MIC)				
J6003	1-770-226-11	JACK (LARGE TYPE)(PHONES)				
< RESISTOR >						
R6001	1-249-429-11	CARBON	10K	5%	1/4W (TH)	
R6003	1-249-417-11	CARBON	1K	5%	1/4W F	
R6005	1-249-417-11	CARBON	1K	5%	1/4W F	
R6006	1-249-425-11	CARBON	4.7K	5%	1/4W F	
R6017	1-249-417-11	CARBON	1K	5%	1/4W F	
R6018	1-247-881-00	CARBON	120K	5%	1/4W	
R6019	1-247-807-31	CARBON	100	5%	1/4W	
R6030	1-247-895-00	CARBON	470K	5%	1/4W	
R6201	1-249-419-11	CARBON	1.5K	5%	1/4W F	
R6202	1-249-418-11	CARBON	1.2K	5%	1/4W F	
R6251	1-249-419-11	CARBON	1.5K	5%	1/4W F	
R6252	1-249-418-11	CARBON	1.2K	5%	1/4W F	
< VARIABLE RESISTOR >						
RV6001	1-225-410-11	RES, VAR, CARBON 50K (MIC LEVEL)				

*	A-4398-467-A	PANEL BOARD, COMPLETE (EXCEPT AUS,TH)				

*	A-4398-468-A	PANEL BOARD, COMPLETE (AUS)				

*	A-4403-218-A	PANEL BOARD, COMPLETE (TH)				

VOLUME BOARD						

*	4-932-810-11	CUSHION (FL)				
*	4-986-870-01	HOLDER, FL TUBE				
< CAPACITOR >						
C501	1-164-159-11	CERAMIC	0.1uF		50V	
C502	1-164-159-11	CERAMIC	0.1uF		50V	
C503	1-162-203-31	CERAMIC	15PF	5%	50V	
C504	1-162-205-31	CERAMIC	18PF	5%	50V	
C505	1-124-261-00	ELECT	10uF	20%	50V	
C506	1-137-399-11	FILM	0.1uF	5%	50V	
C507	1-124-248-00	ELECT	22uF	20%	35V	
C508	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C509	1-124-261-00	ELECT	10uF	20%	50V	
C510	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C511	1-124-584-00	ELECT	100uF	20%	10V	
C512	1-124-261-00	ELECT	10uF	20%	50V	
C514	1-124-261-00	ELECT	10uF	20%	50V	
C515	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C516	1-124-261-00	ELECT	10uF	20%	50V	

Ref. No.	Part No.	Description				Remarks
C517	1-137-374-11	FILM	0.047uF	5%	50V	
C518	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C519	1-124-464-11	ELECT	0.22uF	20%	50V	
C520	1-137-371-11	FILM	0.015uF	5%	50V	
C521	1-124-463-00	ELECT	0.1uF	20%	50V	
C522	1-164-159-11	CERAMIC	0.1uF		50V	
C523	1-162-302-11	CERAMIC	0.0022uF	30%	16V	
C524	1-162-301-11	CERAMIC	0.0015uF	30%	16V	
C525	1-162-288-31	CERAMIC	330PF	10%	50V	
C526	1-164-159-11	CERAMIC	0.1uF		50V	
C527	1-164-159-11	CERAMIC	0.1uF		50V	
C528	1-104-905-11	CAPACITOR	0.22F		5.5V	
C544	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C545	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C546	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C549	1-162-284-31	CERAMIC	150PF	10%	50V	
C550	1-162-286-31	CERAMIC	220PF	10%	50V	
< CONNECTOR >						
CN501	1-774-342-11	PLUG, CONNECTOR (PC BOARD) 14P				
CN502	1-774-342-11	PLUG, CONNECTOR (PC BOARD) 14P				
* CN810	1-569-507-11	PIN, CONNECTOR 12P				
< DIODE >						
D508	8-719-046-36	DIODE	SEL5921A-TH15			
D509	8-719-046-36	DIODE	SEL5921A-TH15			
D510	8-719-046-36	DIODE	SEL5921A-TH15			
D511	8-719-987-63	DIODE	1N4148M			
D521	8-719-046-80	DIODE	SML19416W-TP4			
D523	8-719-046-80	DIODE	SML19416W-TP4			
D524	8-719-046-80	DIODE	SML19416W-TP4			
D525	8-719-046-80	DIODE	SML19416W-TP4			
D526	8-719-046-80	DIODE	SML19416W-TP4			
D527	8-719-046-80	DIODE	SML19416W-TP4			
D528	8-719-046-80	DIODE	SML19416W-TP4			
D529	8-719-046-39	DIODE	SEL5821A-TH15			
D530	8-719-046-39	DIODE	SEL5821A-TH15			
D531	8-719-046-39	DIODE	SEL5821A-TH15			
D532	8-719-046-80	DIODE	SML19416W-TP4			
D533	8-719-046-39	DIODE	SEL5821A-TH15			
D534	8-719-046-44	DIODE	SEL5221S			
D535	8-719-046-36	DIODE	SEL5921A-TH15			
D536	8-719-032-86	DIODE	SEL5420E			
D537	8-719-032-86	DIODE	SEL5420E			
D538	8-719-046-44	DIODE	SEL5221S			
D539	8-719-046-44	DIODE	SEL5221S			
D540	8-719-046-36	DIODE	SEL5921A-TH15			
D541	8-719-046-36	DIODE	SEL5921A-TH15			
D542	8-719-064-63	DIODE	SELU5823A-TP15			
D543	8-719-064-63	DIODE	SELU5823A-TP15			
D575	8-719-987-63	DIODE	1N4148M			
D576	8-719-987-63	DIODE	1N4148M			
D579	8-719-024-99	DIODE	11ES2-NTA2B			
D580	8-719-987-63	DIODE	1N4148M			
D581	8-719-987-63	DIODE	1N4148M			
D582	8-719-014-73	DIODE	UZP-5.6BC-TP			
D583	8-719-024-99	DIODE	11ES2-NTA2B			
D585	8-719-987-63	DIODE	1N4148M			
D586	8-719-987-63	DIODE	1N4148M			

PANEL

VOLUME

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
D587	8-719-987-63	DIODE 1N4148M		R528	1-247-843-11	CARBON 3.3K 5%	1/4W
D588	8-719-987-63	DIODE 1N4148M		R529	1-249-427-11	CARBON 6.8K 5%	1/4W F
D589	8-719-987-63	DIODE 1N4148M		R530	1-249-431-11	CARBON 15K 5%	1/4W
		< FILTER >		R531	1-249-437-11	CARBON 47K 5%	1/4W
				R532	1-249-409-11	CARBON 220 5%	1/4W F
FL501	1-517-618-11	INDICATOR TUBE, FLUORESCENT		R550	1-249-407-11	CARBON 150 5%	1/4W F
		< IC >		R551	1-249-407-11	CARBON 150 5%	1/4W F
				R552	1-249-407-11	CARBON 150 5%	1/4W F
IC501	8-759-483-31	IC TMP87CM75F-6623		R553	1-249-407-11	CARBON 150 5%	1/4W F
IC502	8-759-332-18	IC GP1U27XB		R554	1-249-407-11	CARBON 150 5%	1/4W F
IC503	8-759-165-82	IC PST600E-T					
IC504	8-759-372-64	IC M66313FP-200C		R555	1-249-401-11	CARBON 47 5%	1/4W F
		< COIL >		R556	1-249-403-11	CARBON 68 5%	1/4W F
				R557	1-249-399-11	CARBON 33 5%	1/4W
L502	1-408-074-00	INDUCTOR 56uH		R557	1-249-401-11	CARBON 47 5%	1/4W F
		< TRANSISTOR >		R558	1-249-399-11	CARBON 33 5%	1/4W F
Q501	8-729-119-78	TRANSISTOR 2SC403SP-51		R559	1-247-807-31	CARBON 100 5%	1/4W
Q501	8-729-620-05	TRANSISTOR 2SC2603-EF		R560	1-247-807-31	CARBON 100 5%	1/4W
Q502	8-729-422-57	TRANSISTOR UN4111		R561	1-247-807-31	CARBON 100 5%	1/4W
Q503	8-729-119-78	TRANSISTOR 2SC403SP-51		R563	1-247-807-31	CARBON 100 5%	1/4W
Q503	8-729-620-05	TRANSISTOR 2SC2603-EF		R564	1-247-807-31	CARBON 100 5%	1/4W
Q504	8-729-422-57	TRANSISTOR UN4111		R565	1-247-807-31	CARBON 100 5%	1/4W
Q505	8-729-422-57	TRANSISTOR UN4111		R566	1-247-807-31	CARBON 100 5%	1/4W
Q506	8-729-422-57	TRANSISTOR UN4111		R567	1-247-807-31	CARBON 100 5%	1/4W
Q507	8-729-422-57	TRANSISTOR UN4111		R568	1-247-807-31	CARBON 100 5%	1/4W
Q508	8-729-422-57	TRANSISTOR UN4111		R569	1-247-807-31	CARBON 100 5%	1/4W
Q509	8-729-422-57	TRANSISTOR UN4111		R570	1-247-807-31	CARBON 100 5%	1/4W
Q510	8-729-422-57	TRANSISTOR UN4111		R571	1-247-807-31	CARBON 100 5%	1/4W
		< RESISTOR >		R572	1-247-807-31	CARBON 100 5%	1/4W
				R573	1-247-807-31	CARBON 100 5%	1/4W
				R574	1-247-807-31	CARBON 100 5%	1/4W
R501	1-249-407-11	CARBON 150 5%	1/4W F	R575	1-247-807-31	CARBON 100 5%	1/4W
R502	1-249-409-11	CARBON 220 5%	1/4W F	R576	1-247-807-31	CARBON 100 5%	1/4W
R503	1-249-411-11	CARBON 330 5%	1/4W	R577	1-247-807-31	CARBON 100 5%	1/4W
R504	1-249-413-11	CARBON 470 5%	1/4W F	R578	1-247-807-31	CARBON 100 5%	1/4W
R505	1-249-415-11	CARBON 680 5%	1/4W F	R579	1-249-399-11	CARBON 33 5%	1/4W F
R506	1-249-417-11	CARBON 1K 5%	1/4W F	R580	1-249-426-11	CARBON 5.6K 5%	1/4W
R507	1-249-407-11	CARBON 150 5%	1/4W F	R581	1-249-426-11	CARBON 5.6K 5%	1/4W
R508	1-249-411-11	CARBON 330 5%	1/4W	R582	1-249-429-11	CARBON 10K 5%	1/4W
R511	1-249-407-11	CARBON 150 5%	1/4W F	R583	1-249-403-11	CARBON 68 5%	1/4W F
R512	1-249-409-11	CARBON 220 5%	1/4W F	R584	1-249-403-11	CARBON 68 5%	1/4W F
R513	1-249-411-11	CARBON 330 5%	1/4W	R585	1-249-403-11	CARBON 68 5%	1/4W F
R514	1-249-413-11	CARBON 470 5%	1/4W F	R586	1-249-403-11	CARBON 68 5%	1/4W F
R515	1-249-415-11	CARBON 680 5%	1/4W F	R587	1-249-403-11	CARBON 68 5%	1/4W F
R516	1-249-417-11	CARBON 1K 5%	1/4W F	R588	1-249-403-11	CARBON 68 5%	1/4W F
R517	1-249-419-11	CARBON 1.5K 5%	1/4W F	R589	1-249-403-11	CARBON 68 5%	1/4W F
R518	1-249-421-11	CARBON 2.2K 5%	1/4W F	R590	1-249-403-11	CARBON 68 5%	1/4W F
R519	1-247-843-11	CARBON 3.3K 5%	1/4W	R601	1-249-433-11	CARBON 22K 5%	1/4W
R520	1-249-427-11	CARBON 6.8K 5%	1/4W F	R602	1-249-437-11	CARBON 47K 5%	1/4W
R521	1-249-431-11	CARBON 15K 5%	1/4W	R603	1-249-437-11	CARBON 47K 5%	1/4W
R522	1-249-437-11	CARBON 47K 5%	1/4W	R604	1-249-429-11	CARBON 10K 5%	1/4W
R523	1-249-413-11	CARBON 470 5%	1/4W F	R605	1-249-441-11	CARBON 100K 5%	1/4W
R524	1-249-415-11	CARBON 680 5%	1/4W F	R606	1-249-425-11	CARBON 4.7K 5%	1/4W F
R525	1-249-417-11	CARBON 1K 5%	1/4W F	R610	1-249-429-11	CARBON 10K 5%	1/4W
R526	1-249-419-11	CARBON 1.5K 5%	1/4W F	R611	1-249-429-11	CARBON 10K 5%	1/4W
R527	1-249-421-11	CARBON 2.2K 5%	1/4W F	R613	1-249-429-11	CARBON 10K 5%	1/4W
				R614	1-249-409-11	CARBON 220 5%	1/4W F
				R615	1-249-409-11	CARBON 220 5%	1/4W F
				R616	1-247-843-11	CARBON 3.3K 5%	1/4W
				R617	1-247-843-11	CARBON 3.3K 5%	1/4W
				R618	1-247-843-11	CARBON 3.3K 5%	1/4W

PANEL	VOLUME	PRI	SEC	SURROUND AMP
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Ref. No.	Part No.	Description	Remarks
R619	1-249-429-11	CARBON	10K 5% 1/4W
R620	1-249-429-11	CARBON	10K 5% 1/4W
R621	1-249-429-11	CARBON	10K 5% 1/4W
R622	1-249-429-11	CARBON	10K 5% 1/4W
R623	1-249-429-11	CARBON	10K 5% 1/4W
R624	1-249-429-11	CARBON	10K 5% 1/4W
R630	1-249-435-11	CARBON	33K 5% 1/4W
R631	1-249-435-11	CARBON	33K 5% 1/4W
R632	1-249-437-11	CARBON	47K 5% 1/4W
R633	1-247-903-00	CARBON	1M 5% 1/4W
R634	1-249-437-11	CARBON	47K 5% 1/4W
R635	1-247-903-00	CARBON	1M 5% 1/4W
R636	1-249-435-11	CARBON	33K 5% 1/4W
R637	1-249-429-11	CARBON	10K 5% 1/4W
R638	1-249-437-11	CARBON	47K 5% 1/4W
R639	1-249-437-11	CARBON	47K 5% 1/4W
R640	1-247-903-00	CARBON	1M 5% 1/4W
R641	1-247-903-00	CARBON	1M 5% 1/4W
R642	1-249-410-11	CARBON	270 5% 1/4W F (EXCEPT AUS,TH)
R643	1-249-427-11	CARBON	6.8K 5% 1/4W F
R662	1-247-903-00	CARBON	1M 5% 1/4W
R663	1-247-903-00	CARBON	1M 5% 1/4W
R664	1-247-903-00	CARBON	1M 5% 1/4W
R665	1-247-903-00	CARBON	1M 5% 1/4W
R666	1-249-403-11	CARBON	68 5% 1/4W F (EXCEPT TH)
R666	1-249-417-11	CARBON	1K 5% 1/4W F
R667	1-247-807-31	CARBON	100 5% 1/4W
< SWITCH >			
S159	1-762-751-11	SWITCH, TACTILE	
S501	1-762-751-11	SWITCH, TACTILE (MOVIE)	
S502	1-762-751-11	SWITCH, TACTILE	
S503	1-762-751-11	SWITCH, TACTILE (EFFECT ON/OFF)	
S504	1-762-751-11	SWITCH, TACTILE (LOW FREQ)	
S505	1-762-751-11	SWITCH, TACTILE (MEMORY)	
S506	1-762-751-11	SWITCH, TACTILE (TUNING MODE)	
S507	1-762-751-11	SWITCH, TACTILE (FLASH)	
S508	1-762-751-11	SWITCH, TACTILE (POWER)	
S512	1-762-751-11	SWITCH, TACTILE (GAME)	
S513	1-762-751-11	SWITCH, TACTILE (P FILE)	
S514	1-762-751-11	SWITCH, TACTILE (MEMO)	
S515	1-762-751-11	SWITCH, TACTILE (HIGH FREQ)	
S516	1-762-751-11	SWITCH, TACTILE (REPEAT)	
S517	1-762-751-11	SWITCH, TACTILE (1/ALL DISCS)	
S518	1-762-751-11	SWITCH, TACTILE (PLAY MODE)	
S520	1-762-751-11	SWITCH, TACTILE (DBFB)	
S521	1-762-751-11	SWITCH, TACTILE (GROOVE)	
S522	1-762-751-11	SWITCH, TACTILE (FUNCTION)	
S523	1-762-751-11	SWITCH, TACTILE (MONO/ST)	
S524	1-762-751-11	SWITCH, TACTILE (TUNER BAND)	
S525	1-762-751-11	SWITCH, TACTILE (TIMER SELECT)	
S526	1-762-751-11	SWITCH, TACTILE (CLOCK TIMER SET)	
S527	1-762-751-11	SWITCH, TACTILE (DOLBY PRO LOGIC)	
S528	1-762-751-11	SWITCH, TACTILE (MODE)	
S531	1-762-751-11	SWITCH, TACTILE (KARAOKE PON)	
S532	1-762-751-11	SWITCH, TACTILE (SURROUND)	
S533	1-762-751-11	SWITCH, TACTILE (LOOP)	
S535	1-467-869-11	ENCODER, ROTARY (VOLUME)	
S537	1-762-751-11	SWITCH, TACTILE (WAVE)	

Ref. No.	Part No.	Description	Remarks
S538	1-762-751-11	SWITCH, TACTILE (DISPLAY)	
< VIBRATOR >			
X501	1-579-125-11	VIBRATOR, CERAMIC 5MHz	
X502	1-567-098-41	VIBRATOR, CRYSTAL 32KHz	

*	1-666-069-11	PRI BOARD	*****
	1-533-293-11	FUSE HOLDER	
< CONNECTOR >			
CN851	1-564-321-00	PIN, CONNECTOR 2P	
< FUSE >			
△ F851	1-532-465-51	FUSE, TIME LAG 3.15A 250V	
△ F852	1-532-506-51	FUSE TIME LAG 6.3A 250V (EXCEPT AUS,TH)	
< SWITCH >			
△ VS851	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR)(EXCEPT AUS,TH)	

*	1-666-059-11	SEC BOARD	*****
	1-533-293-11	FUSE HOLDER	
< CONNECTOR >			
* CN852	1-564-527-11	PLUG, CONNECTOR 12P	
< FUSE >			
△ F853	1-532-350-00	FUSE TIME LAG 4A 250V	
△ F854	1-532-350-00	FUSE TIME LAG 4A 250V	
△ F857	1-532-506-51	FUSE TIME LAG 6.3A 250V	
△ F858	1-532-506-51	FUSE TIME LAG 6.3A 250V	
< RESISTOR >			
△ R855	1-219-121-11	FUSIBLE 0.22 5% 1/4W F	
△ R856	1-219-121-11	FUSIBLE 0.22 5% 1/4W F	

*	A-4398-466-A	SURROUND AMP BOARD, COMPLETE (EXCEPT TH)	

*	A-4403-217-A	SURROUND AMP BOARD, COMPLETE (TH)	

< CAPACITOR >			
C4000	1-162-306-11	CERAMIC 0.01uF 20% 16V	
C4001	1-126-961-11	ELECT 2.2uF 20% 50V	
C4002	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C4003	1-162-282-31	CERAMIC 100PF 10% 50V	
C4004	1-126-964-11	ELECT 10uF 20% 50V	
C4005	1-126-964-11	ELECT 10uF 20% 50V	
C4006	1-136-165-00	FILM 0.1uF 5% 50V	
C4007	1-136-165-00	FILM 0.1uF 5% 50V	
C4010	1-126-967-11	ELECT 47uF 20% 50V	
C4011	1-126-963-11	ELECT 4.7uF 20% 50V	

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

SURROUND AMP

SUR

SUPPLY POWER

Ref. No.	Part No.	Description				Remarks	Ref. No.	Part No.	Description				Remarks
C4012	1-126-965-11	ELECT	22uF	20%	50V		R4063	1-249-417-11	CARBON	1K	5%	1/4W	F
C4013	1-126-967-11	ELECT	47uF	20%	50V		R4064	1-249-431-11	CARBON	15K	5%	1/4W	
C4040	1-126-963-11	ELECT	4.7uF	20%	50V		R4065	1-249-441-11	CARBON	100K	5%	1/4W	
C4051	1-126-961-11	ELECT	2.2uF	20%	50V		△ R4070	1-208-602-11	WIREWOUND	0.22	10%	2W	F
C4052	1-162-294-31	CERAMIC	0.001uF	10%	50V		*****						
C4053	1-162-282-31	CERAMIC	100PF	10%	50V		*	1-666-071-11	SUR BOARD				
C4054	1-126-964-11	ELECT	10uF	20%	50V		*****						
C4055	1-126-964-11	ELECT	10uF	20%	50V		< CAPACITOR >						
C4056	1-136-165-00	FILM	0.1uF	5%	50V		C601	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C4057	1-136-165-00	FILM	0.1uF	5%	50V		< CONNECTOR >						
< CONNECTOR >							< CONNECTOR >						
* CN4001	1-564-522-11	PLUG, CONNECTOR 7P					CN601	1-564-506-11	PLUG, CONNECTOR 3P				
< DIODE >						CN6004	1-770-726-11	CONNECTOR, BOARD TO BOARD 6P					
< DIODE >							*****						
D4003	8-719-987-63	DIODE 1N4148M					*	A-4398-997-A	SUPPLY POWER BOARD, COMPLETE				
D4053	8-719-987-63	DIODE 1N4148M					*****						
< IC >						< CAPACITOR >							
IC4001	8-749-900-96	IC STK-4142MK2					C809	1-104-664-11	ELECT	47uF	20%	25V	
< TRANSISTOR >						C811	1-126-933-11	ELECT	100uF	20%	16V		
Q4002	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA					C812	1-104-664-11	ELECT	47uF	20%	25V	
Q4052	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA					C813	1-126-967-11	ELECT	47uF	20%	10V	
< RESISTOR >						C816	1-104-664-11	ELECT	47uF	20%	25V		
R4001	1-249-417-11	CARBON	1K	5%	1/4W	F	C817	1-126-933-11	ELECT	100uF	20%	10V	
R4002	1-249-437-11	CARBON	47K	5%	1/4W		C818	1-104-664-11	ELECT	47uF	20%	25V	
R4003	1-249-413-11	CARBON	470	5%	1/4W	F	C819	1-126-967-11	ELECT	47uF	20%	10V	
R4004	1-249-437-11	CARBON	47K	5%	1/4W		C820	1-126-967-11	ELECT	47uF	20%	50V	
R4006	1-249-425-11	CARBON	4.7K	5%	1/4W	F	C831	1-126-974-11	ELECT	3300uF	20%	50V	
R4007	1-249-425-11	CARBON	4.7K	5%	1/4W	F	C832	1-126-974-11	ELECT	3300uF	20%	50V	
R4008	1-249-425-11	CARBON	4.7K	5%	1/4W	F	C835	1-136-165-00	FILM	0.1uF	5%	50V	
R4009	1-249-425-11	CARBON	4.7K	5%	1/4W	F	C836	1-136-165-00	FILM	0.1uF	5%	50V	
R4010	1-249-397-11	CARBON	22	5%	1/4W	F	< DIODE >						
R4011	1-249-397-11	CARBON	22	5%	1/4W	F	D802	8-719-028-23	DIODE D3SBA20-4101				
R4013	1-249-417-11	CARBON	1K	5%	1/4W	F	D807	8-719-000-81	DIODE UZL-7L3				
R4014	1-249-431-11	CARBON	15K	5%	1/4W		D808	8-719-933-50	DIODE HZS7C2L				
R4015	1-249-441-11	CARBON	100K	5%	1/4W		D812	8-719-933-50	DIODE HZS7C2L				
△ R4020	1-208-602-11	WIREWOUND	0.22	10%	2W	F	D813	8-719-001-57	DIODE UZL-11H3-TP				
△ R4032	1-212-881-11	FUSIBLE	100	5%	1/4W	F	< TRANSISTOR >						
R4033	1-249-421-11	CARBON	2.2K	5%	1/4W	F	Q802	8-729-209-15	TRANSISTOR 2SD2012				
R4034	1-249-421-11	CARBON	2.2K	5%	1/4W	F	Q804	8-729-209-15	TRANSISTOR 2SD2012				
R4035	1-249-421-11	CARBON	2.2K	5%	1/4W	F	Q805	8-729-141-83	TRANSISTOR 2SB1094-LK				
R4036	1-249-421-11	CARBON	2.2K	5%	1/4W	F	Q806	8-729-209-15	TRANSISTOR 2SD2012				
△ R4043	1-212-881-11	FUSIBLE	100	5%	1/4W	F	Q8004	8-729-620-05	TRANSISTOR 2SC2603-EF				
R4051	1-249-417-11	CARBON	1K	5%	1/4W	F	< RESISTOR >						
R4052	1-249-437-11	CARBON	47K	5%	1/4W		R805	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R4053	1-249-413-11	CARBON	470	5%	1/4W	F	R807	1-249-417-11	CARBON	1K	5%	1/4W	F
R4054	1-249-437-11	CARBON	47K	5%	1/4W		△ R808	1-212-962-00	FUSIBLE	15	5%	1/2W	F
R4056	1-249-425-11	CARBON	4.7K	5%	1/4W	F	R809	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R4057	1-249-425-11	CARBON	4.7K	5%	1/4W	F	△ R810	1-213-036-51	FUSIBLE	1	5%	1W	F
R4058	1-249-425-11	CARBON	4.7K	5%	1/4W	F	△ R811	1-212-962-00	FUSIBLE	15	5%	1/2W	F
R4059	1-249-425-11	CARBON	4.7K	5%	1/4W	F	△ R813	1-213-060-51	FUSIBLE	10	5%	1W	F
R4060	1-249-397-11	CARBON	22	5%	1/4W	F	R820	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R4061	1-249-397-11	CARBON	22	5%	1/4W	F	R821	1-249-419-11	CARBON	1.5K	5%	1/4W	F
							△ R830	1-216-446-00	METAL OXIDE	18	5%	2W	F
(EXCEPT TH)													

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

SUPPLY POWER

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
△ R830	1-215-881-11	METAL OXIDE	15 5% 2W F (TH)			MISCELLANEOUS *****	
△ R831	1-216-446-00	METAL OXIDE	18 5% 2W F (EXCEPT TH)	6	1-233-545-21	ENCAPSULATED COMPONENT (AUS,TH)	
△ R831	1-215-881-11	METAL OXIDE	15 5% 2W F (TH)	6	1-233-546-21	ENCAPSULATED COMPONENT (EXCEPT AUS,TH)	
△ R832	1-216-446-00	METAL OXIDE	18 5% 2W F (EXCEPT TH)	△ 12	1-690-608-11	CORD, POWER (AUS)	
△ R832	1-215-881-11	METAL OXIDE	15 5% 2W F (TH)	△ 12	1-751-326-31	CORD, POWER (TH)	
				△ 12	1-777-071-21	CORD, POWER (EA,HK,MY,SP)	
△ R833	1-216-446-00	METAL OXIDE	18 5% 2W F (EXCEPT TH)	△ 12	1-782-315-11	CORD, POWER (E)	
△ R833	1-215-881-11	METAL OXIDE	15 5% 2W F (TH)	△ 13	1-569-007-11	ADAPTOR, CONVERSION 2P (E)	
△ R834	1-216-446-00	METAL OXIDE	18 5% 2W F (EXCEPT TH)	△ 13	1-569-008-21	ADAPTOR, CONVERSION 2P (EA,MY,SP)	
△ R834	1-215-881-11	METAL OXIDE	15 5% 2W F (TH)	△ 13	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (HK)	
△ R835	1-216-446-00	METAL OXIDE	18 5% 2W F (EXCEPT TH)	M601	1-698-792-11	FAN, DC	
				△ T901	1-431-363-11	TRANSFORMER, POWER	
				***** ***** HARDWARE LIST *****			
△ R835	1-215-881-11	METAL OXIDE	15 5% 2W F (TH)	#1	7-685-872-09	SCREW +BVTT 3X8 (S)	
△ R836	1-215-884-11	METAL OXIDE	47 5% 2W F (EXCEPT TH)	#2	7-685-881-09	SCREW +BVTT 4X8 (S)	
△ R836	1-215-885-00	METAL OXIDE	68 5% 2W F (TH)	#3	7-685-646-79	SCREW +BVTT 3X8 TYPE2 N-S	
				#4	7-685-647-79	SCREW +BVTT 3X10 TYPE2 N-S	
				#5	7-685-650-79	SCREW +BVTT 3X16 TYPE2 IT-3	

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.