

STR-VX700

SERVICE MANUAL

E Model



This set is the tuner and amplifier section in MHC-VX700AV.

SPECIFICATIONS

Amplifier section

The following measured at AC 120, 220, 240V 50/60 Hz
DIN power output (Rated) (FRONT)

120 + 120W (6 Ω at 1kHz DIN)

Continuous RMS power output (Reference)

FRONT SPEAKER: 150 + 150W

(6 Ω at 1kHz, 10% THD)

CENTER SPEAKER: 60W

(8 Ω at 1kHz, 10% THD)

REAR SPEAKER: 40 + 40W

(8 Ω at 1kHz, 10% THD)

Inputs

MD/VIDEO 1 IN (phono jacks): voltage
450/250mV, impedance 47k Ω

AV INPUT AUDIO (phono jacks): voltage
250mV, impedance 47k Ω

MIX MIC 1/2 (phone jack): sensitivity 1mV,
impedance 10k Ω

Output

MD/VIDEO 1 OUT (phono jacks): voltage
450/250mV, impedance 1k Ω

PHONES (stereo phone jack): accepts
headphones of 8 Ω or more.

FRONT SPEAKER:
accepts impedance of 6 to 16 Ω

CENTER SPEAKER:
accepts impedance of 8 to 16 Ω

REAR SPEAKER:
accepts impedance of 8 to 16 Ω

SUPER WOOFER:
Voltage 1V, impedance 1k Ω

Tuning range

Thai models:

531 – 1,602kHz (with the AM tuning
interval set at 9kHz)

530 – 1,710kHz (with the AM tuning
interval set at 10kHz)

Other models:

MW: 531 – 1,602kHz (with the MW tuning
interval set at 9kHz)

530 – 1,710kHz (with the MW tuning
interval set at 10kHz)

SW: 5.95 – 17.90MHz (with the SW tuning
interval set at 5kHz)

Intermediate frequency

Antenna

450kHz

AM loop antenna External antenna terminal

General

Power requirements

Thai models:

220V AC, 50/60Hz

Other models:

120V, 220V or 230 – 240V AC, 50/60Hz

Adjustable with voltage selector

Power consumption

340W

Dimensions (w/h/d)

Approx. 288 × 205 × 375mm

Mass

Approx. 8.7kg

Design and specifications are subject to change without notice.

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range 87.5 – 108.0MHz

Antenna terminals 75 Ω unbalanced

Intermediate frequency 10.7MHz

AM tuner section

FM STEREO/FM-AM RECEIVER



SONY®

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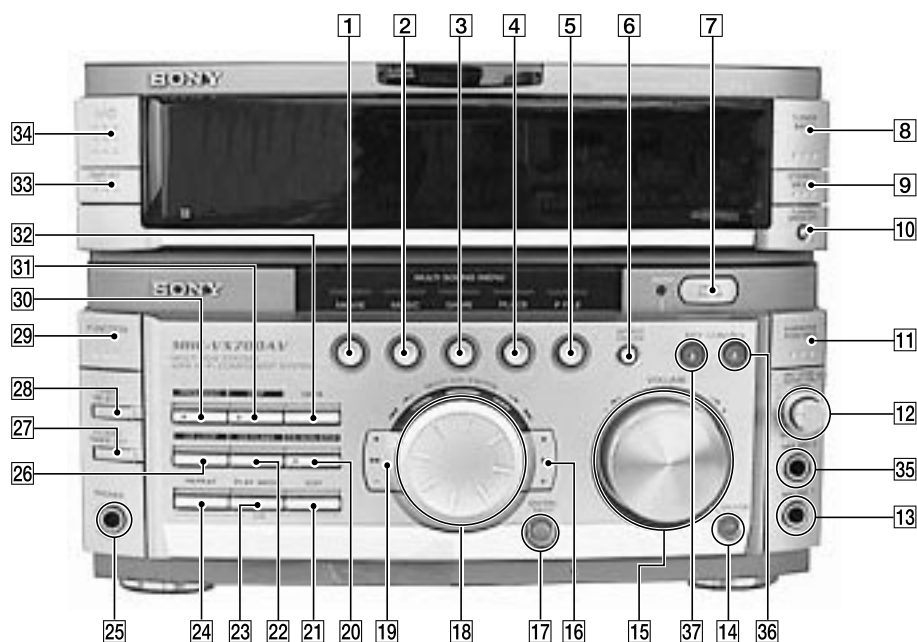
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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  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.

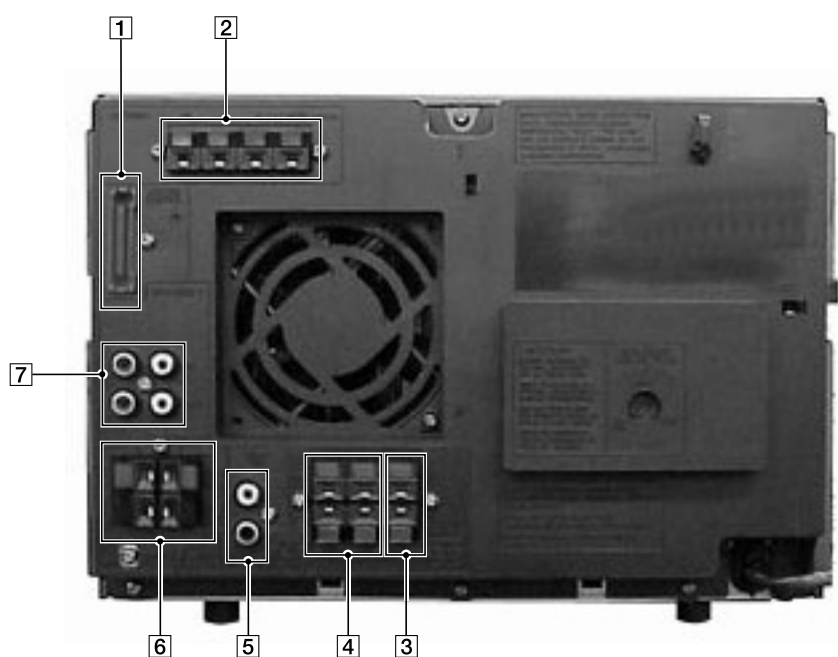
SECTION 1 GENERAL

Front Panel



- | | |
|-----------------------------------|----------------------------------|
| 1 MOVIE button | 19 ◀ – button |
| 2 MUSIC button | 20 NON-STOP button |
| 3 GAME button | 21 EDIT button |
| 4 PLACE button | 22 FLASH button |
| 5 P FILE button | 23 PLAY MODE button |
| 6 EFFECT ON/OFF button | 24 REPEAT button |
| 7 OPEN/CLOSE button | 25 PHONES jack |
| 8 TUNER BAND button | 26 LOOP button |
| 9 STEREO/MONO button | 27 CLOCK/TIMER SET button |
| 10 MEMORY button | 28 TIMER SELECT button |
| 11 KARAOKE PON/MIX button | 29 FUNCTION button |
| 12 MIC LEVEL/ECHO VOL dial | 30 PROLOGIC button |
| 13 MIX MIC1 jack | 31 DSP button |
| 14 GROOVE button | 32 DBFB button |
| 15 VOLUME dial | 33 DISPLAY/DEMO button |
| 16 ▶▶ + button | 34 I/⏻ (POWER) button |
| 17 ENTER/NEXT button | 35 MIX MIC2 jack |
| 18 MULTI JOG STATION dial | 36 KEY CONTROL (#) |
| | 37 KEY CONTROL (b) |

Rear Panel

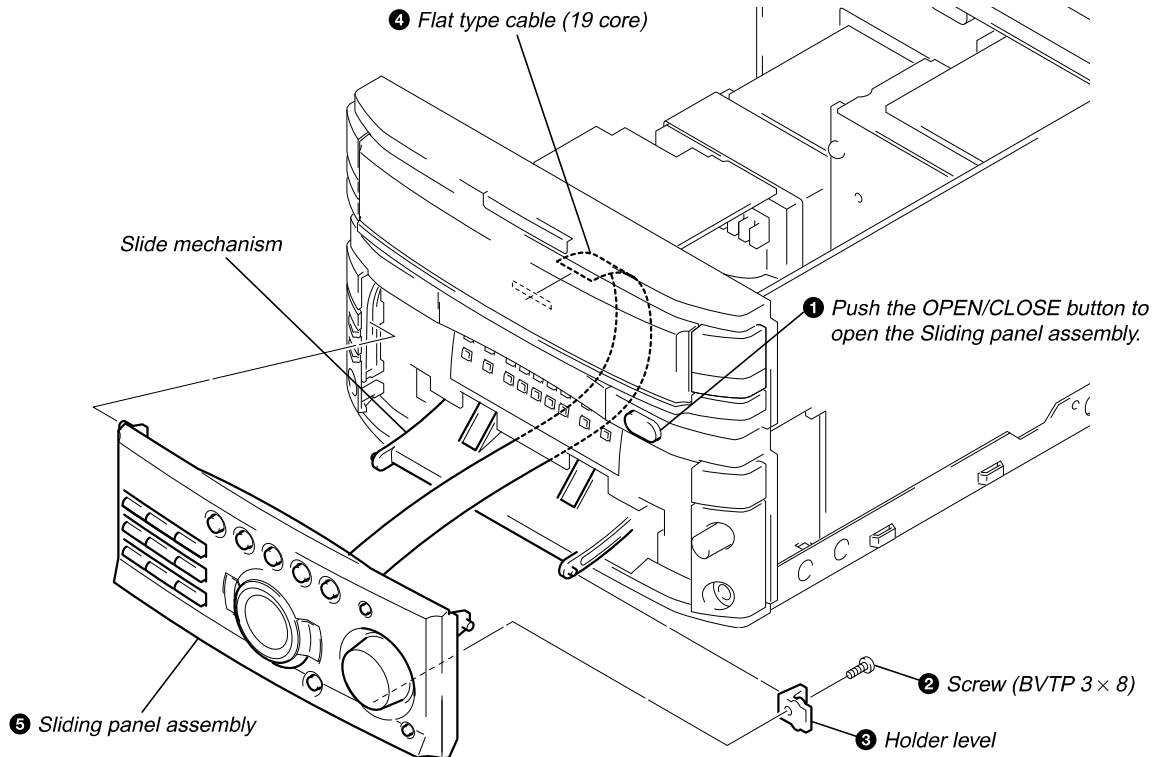


- 1 SYSTEM CONTROL jack
- 2 ANTENNA terminal
- 3 CENTER SPEAKER terminal
- 4 REAR SPEAKER terminal
- 5 MONITOR OUT jack
- 6 FRONT SPEAKER terminal
- 7 MD/VIDEO 1 jack

SECTION 2 DISASSEMBLY

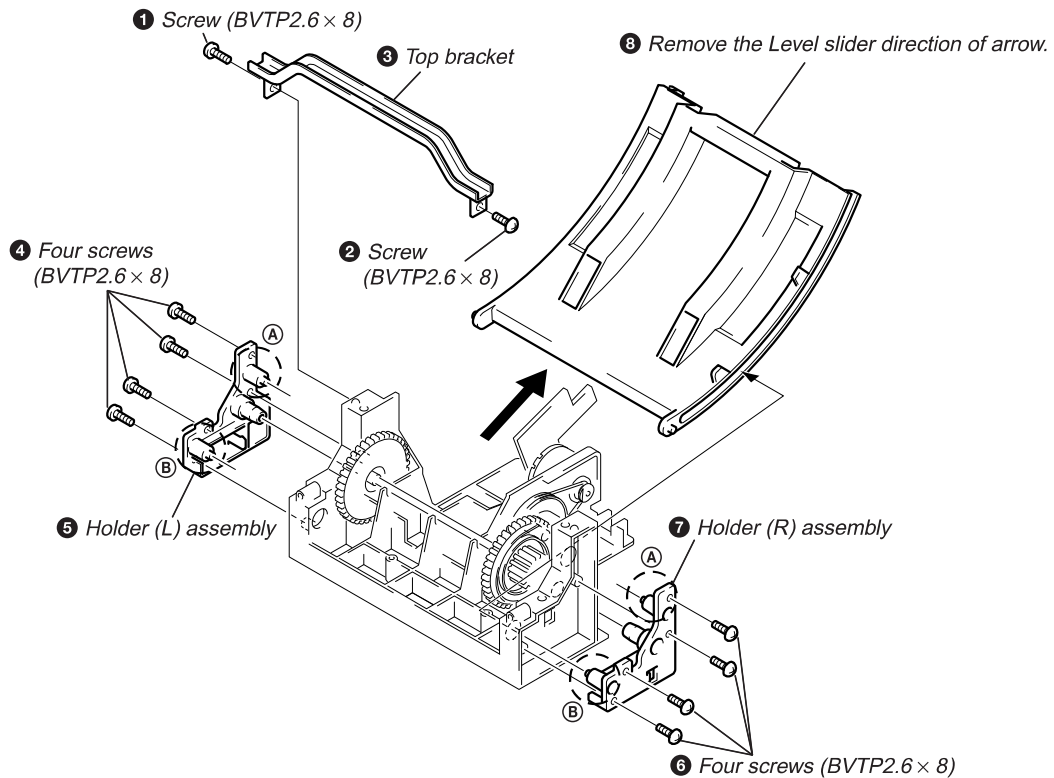
Note: Follow the disassembly procedure in the numerical order given.

2-1. SLIDING PANEL ASSEMBLY



2-2. LEVEL SLIDER

(Perform this DISASSEMBLY after the front panel is removed.)



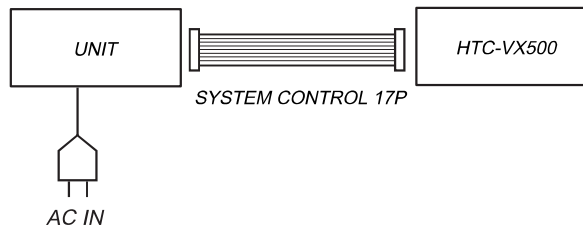
NOTE FOR INSTALLATION :

Attach in the reverse order, but make sure the rollers (A, B) of the holder (L) assembly and holder (R) assembly fit into the grooves of the level slider.

SECTION 3 SERVICE MODE

Connections and Operations When Used Alone

Normally, use the unit connected to the HTC-VX500 as follows.
Basically, when servicing the unit, connect the unit as follows.



Even when not connected to the HTC-VX500, the unit can operate alone as it mounts a power supply (some functions will however not be available).

MC Cold Reset

- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. Press three buttons **[EDIT]**, **[ENTER/NEXT]**, and **[DISPLAY/DEMO]** simultaneously.
2. The fluorescent indicator tube becomes blink instantaneously, and the set is reset.

CD Delivery Mode (This mode can be used only when the HTC-VX500 is connected.)

- This mode moves the pick-up to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press **[I/⏻]** button to turn the set ON.
2. Press **[LOOP]** button and **[I/⏻]** button simultaneously.
3. A message “LOCK” is displayed on the fluorescent indicator tube, and the CD delivery mode is set.

MC Hot Reset

- This mode resets the set with the preset data kept stored in the memory. The hot reset mode functions same as if the power cord is plugged in and out.

Procedure:

1. Press three buttons **[REPEAT]**, **[ENTER/NEXT]**, and **[DISPLAY/DEMO]** simultaneously.
2. The fluorescent indicator tube becomes blink instantaneously, and the set is reset.

Sled Servo Mode (This mode can be used only when the HTC-VX500 is connected.)

- This mode can run the CD sled motor freely. Use this mode, for instance, when cleaning the pick-up.

Procedure:

1. Select the function “CD”.
2. Press three buttons **[FLASH]**, **[ENTER/NEXT]**, and **[KARAOKE PON/MIX]** simultaneously.
3. The Sled Servo mode is selected, if “CD” is blinking on the fluorescent indicator tube.
4. With the CD in stop status, press **[▶▶+]** button move the pick-up to outside track, or **[◀◀-]** button to inside track.
5. To exit from this mode, perform as follows:
 - 1) Move the pick-up to the most inside track.
 - 2) Press three buttons in the same manner as step 2.

Note:

- Always move the pick-up to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
- Do not run the sled motor excessively, otherwise the gear can be chipped.

Change-over of FUNCTION Name

- The FUNCTION name of external input terminal can be changed over to VIDEO 1 or MD. With the FUNCTION selected to “MD”, about 5dB mute is applied to the input gain.

Procedure:

1. Press **[I/⏻]** button to turn the set OFF.
2. Press **[I/⏻]** button together with **[FUNCTION]** button, and the power is turned on, the display of fluorescent indicator tube changes to “MD” or “VIDEO 1” instantaneously, and thus the FUNCTION is changed over.

Change-over of AM Tuner Step between 9kHz and 10kHz

- A step of AM channels can be changed over between 9kHz and 10kHz.

Procedure:

1. Press **[I/⏻]** button to turn the set ON.
2. Select the function “TUNER”, and press **[TUNER/BAND]** button to select the BAND “MW”.
3. Press **[I/⏻]** button to turn the set OFF.
4. Press **[ENTER/NEXT]** and **[I/⏻]** buttons simultaneously, and the display of fluorescent indicator tube changes to “MW step 10” or “MW step 9”, and thus the channel step is changed over.

LED and Fluorescent Indicator Tube All Lit, Key Check Mode (Do not connect the HTC-VX500.)

Procedure:

1. Press **I/O** button to turn the set ON.
2. Press the **OPEN/CLOSE** button to open the sliding panel.
3. Press three buttons **DELAY**, **ENTER/NEXT**, and **DISPLAY/DEMO** simultaneously.
4. LEDs and fluorescent indicator tube are all turned on. Each time the **MOVIE** button is pressed, the fluorescent indicator tube lights up as follows:
lights up completely → lights up partially 1 → lights up partially 2 → lights up completely.
5. Press **GAME** button, and the key check mode is activated.
6. In the key check mode, the fluorescent indicator tube displays “K @@ V0 J0”. Each time a button is pressed, “K” value decreases. However, once a button is pressed, it is no longer taken into account. (@@ means the total of buttons)
“J” Value increases like 1, 2, 3 ... if rotating **JOG** knob in “+” direction, or it decreases like 0, 9, 8 ... if rotating in “-” direction.
“V” Value increases like 1, 2, 3 ... if rotating **VOLUME** knob in “+” direction, or it decreases like 0, 9, 8 ... if rotating in “-” direction.
7. Pressing all buttons lights up the fluorescent indicator tube completely.
8. To exit from this mode, press three buttons **EDIT**, **ENTER/NEXT** and **DISPLAY/DEMO** simultaneously. (COLD RESET)
9. To exit from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

CD, TAPE Deck Aging Mode (This mode can be used only when the HTC-VX500 is connected.)

This mode can be used for checking the operations of the CD player and tape deck.

- When problems occur;
Aging stops, and the stopped state is displayed on the fluorescent indicator tube.
- When no problems;
Aging continues.

Preparations:

- Set the CD on the DISC1 tray.
- Insert a commercially available tape for recording (tapes which contents can be erased, etc.) in decks A and B.

Setting the aging mode:

Press the **PLAY MODE** button, **ENTER/NEXT** button, and **STEREO/MONO** button together.

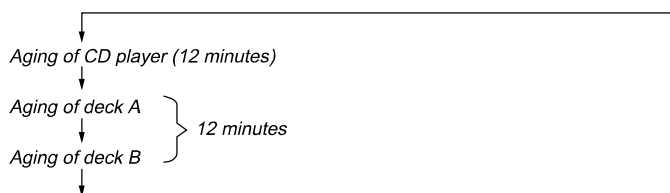
When the aging mode is set, the CD roulette mark blinks. To exit the mode, press the **I/O** button and turn OFF the power.

Sequence:

The aging mode is executed in the following sequence.

If the function is set to “CD” when the aging mode is set, aging is performed starting from the CD player. When set to “TAPE A” or “TAPE B”, aging is started from deck A.

If the function is set to others, aging will not be started until the function is switched to CD or TAPE.



Display of status:

- The aging status is displayed on the fluorescent indicator tube.
- Normally, the CD player displays the remaining aging time. But if operations ended abnormally, it displays the cause.
- During the aging of the tape deck, the operations performed will be displayed. If operations ended abnormally, this will be displayed at the fluorescent display tube.

CD Player

- During normal operations:
Display of fluorescent indicator tube

**1-@@

**: Displays “CD” and the remaining aging time (minutes) alternately. The remaining aging time is counted down from 12.

@@: Track number being accessed.

• **When operations end abnormally:**

Display of fluorescent display tube

Display	Main Cause
NO DISC ERR	DISC 1 is NO DISC from the beginning
FOCUS1 ERR	Focus is not imposed properly
FOCUS2 ERR	The focus deviated several times after the disc rotated normally
GFS ERR	GFS ERROR
FBIAS ERR	Error during focus bias adjustment
SENSOR ERR	DISC 1 was found to be NO DISC by the disc sensor
TABLE ERR	The table did not rotate normally
TRAY ERR	The tray containing the BD did not operate normally

Tape Deck

Display of Operations	Operation	Timing of Ending
TAPE A AG-1	TAPE A REW	Shutoff
TAPE A AG-2	TAPE A FWD	2 minute playback
TAPE A AG-3	TAPE A FF	20 seconds or shutoff
TAPE A AG-4	TAPE A REV	2 minutes playback
TAPE A AG-5	TAPE A REW	Shutoff
TAPE B AG-1	TAPE B REW	Shutoff
TAPE B AG-2	TAPE B FWD	2 minute playback
TAPE B AG-3	TAPE B FF	20 seconds or shutoff
TAPE B AG-4	TAPE B REV	2 minute playback
TAPE B AG-5	TAPE B REW	Shutoff

Operations during aging

- Operations are performed in the following sequence during aging.

<CD player>

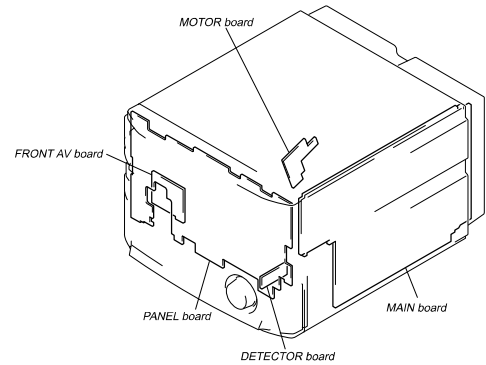
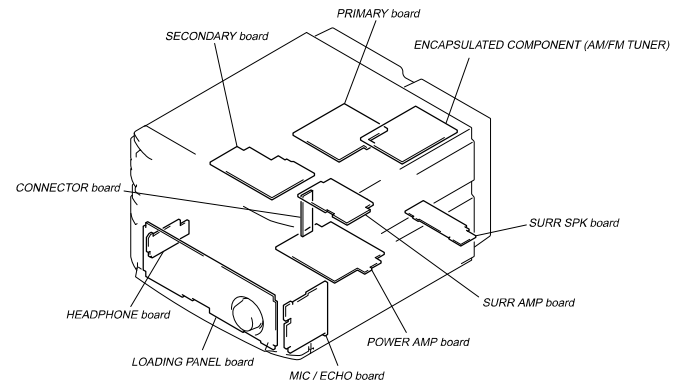
1. The CD tray rotates and disc 1 is selected.
2. Chucking is performed.
3. TOC is read.
4. Track 1 played back for 2 seconds.
5. The last track is played back for 2 seconds.
6. 1 to 5 is repeated.
7. After 12 minutes of aging, aging is switched to the tape deck.

<Tape Deck>

1. The tape in deck A is rewound to the head.
2. The FWD side is played back for 2 minutes.
3. The tape is fast forwarded (FF) for 20 seconds. The following procedure is performed when the tape end is reached before the 20 seconds.
4. The REV side is played back for 2 minutes.
5. The tape is rewound to the head (REW).
6. The tape in deck B is rewound to the head.
7. The FWD side is played back for 2 minutes.
8. The tape is fast forwarded (FF) for 20 seconds. The following procedure is performed when the tape end is reached before the 20 seconds.
9. The REV side is played back for 2 minutes.
10. The tape is rewound to the head (REW).
11. Aging is switched to the CD player.

SECTION 4 DIAGRAMS

4-1. CIRCUIT BOARDS LOCATION



PANEL Aging Mode

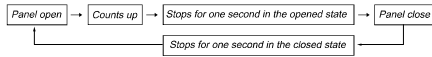
This mode is used for opening and closing the sliding panel continuously.

Setting the aging mode :

With the set at standby condition, press **[FLASH]** button, **[ENTER/NEXT]** button and **[STEREO/MONO]** button together. The aging will start and sliding panel will follow aging sequence as described below.

- When problems occur ;
Aging stops and "AGING ERROR" is displayed on the fluorescent indicator tube.
- When no problems;
Aging is carried out repeatedly. After 65000 times, "AGING STOP" is displayed and aging stops.

Aging Sequence



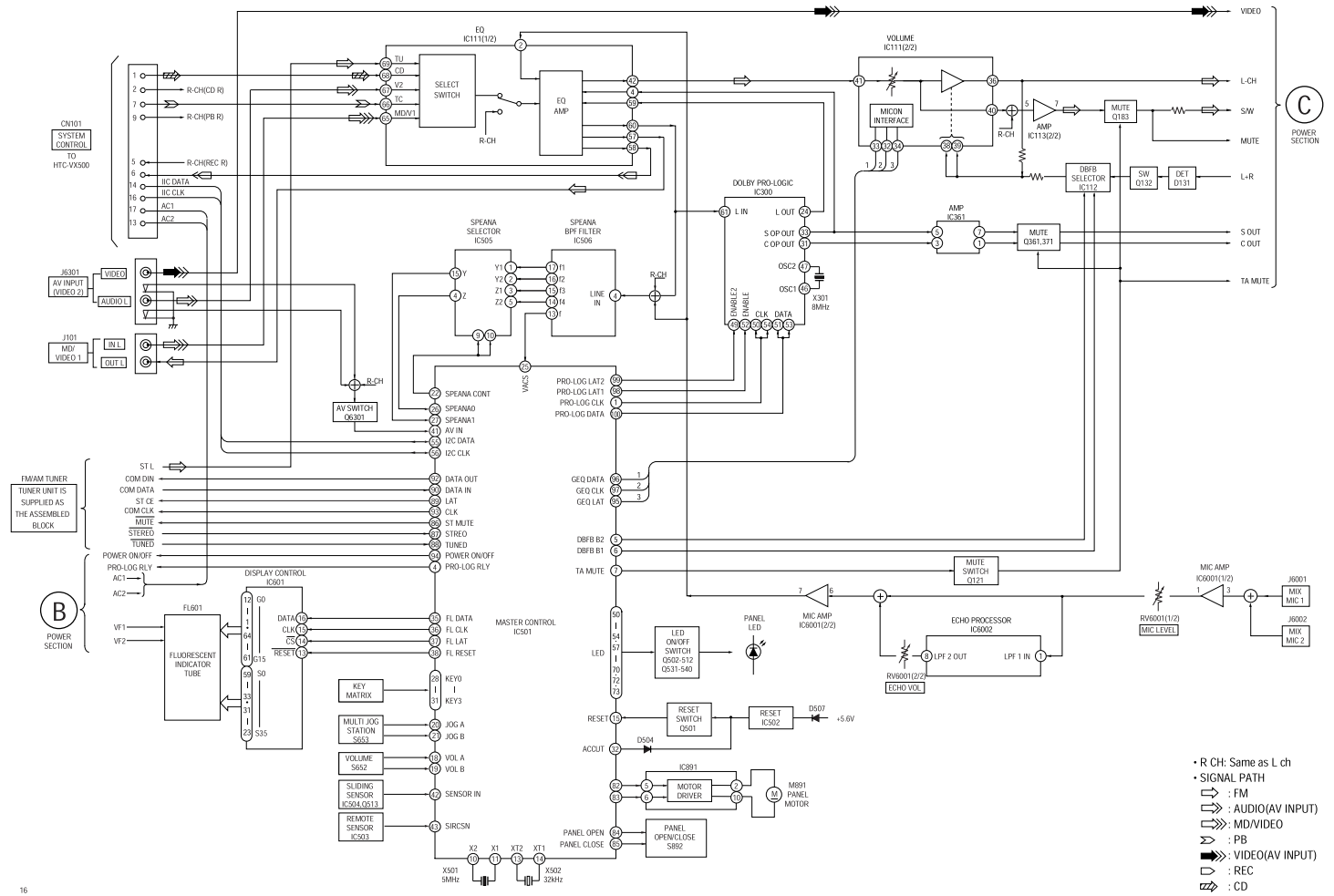
Each time the **[DISPLAY/DEMO]** button is pressed, the display switches as follows.

```

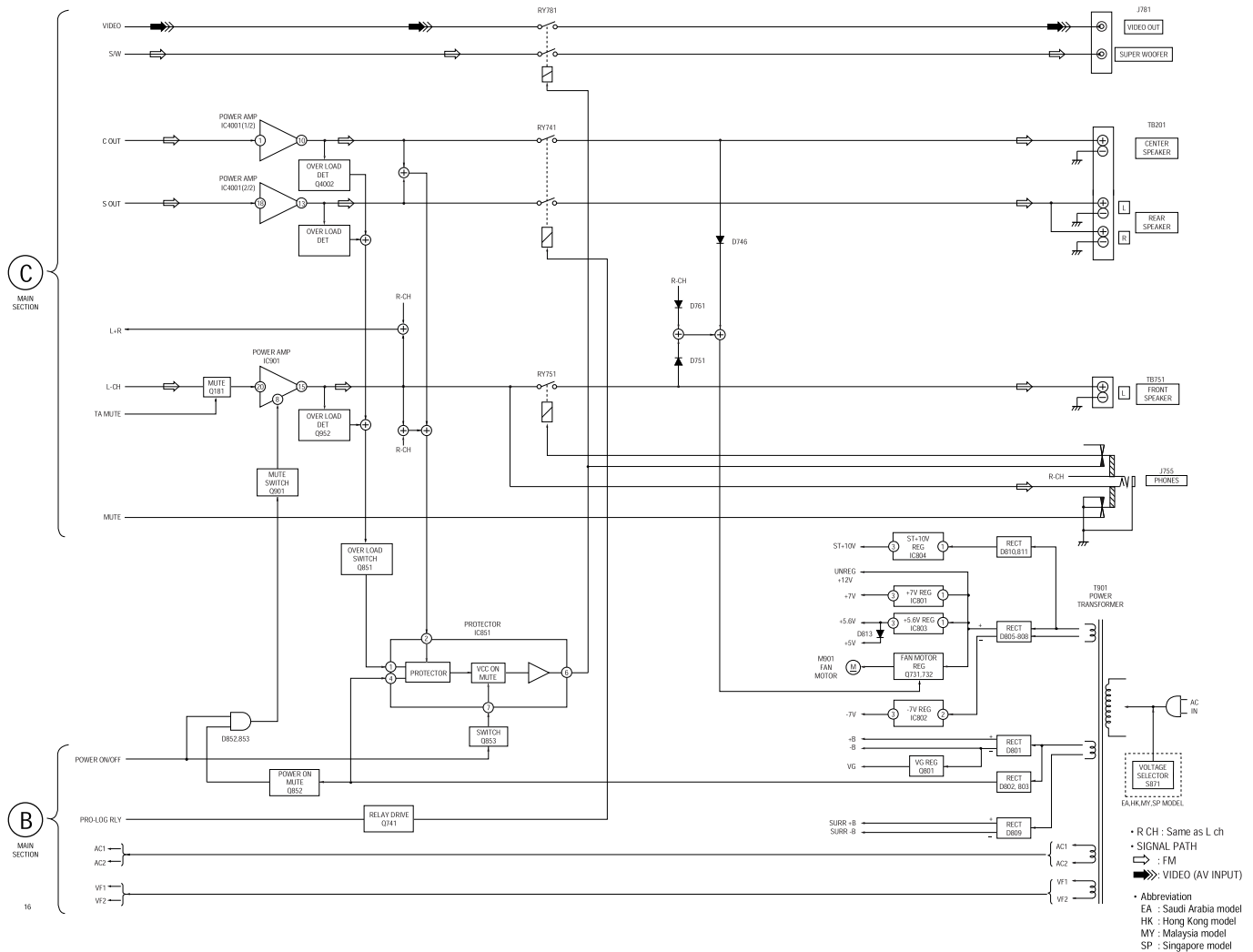
Aging @@@@ (No. of agings carried out)
OP Max @@@ (Maximum time taken for OPEN:In seconds)
OP Min @@@ (Minimum time taken for OPEN:In seconds)
CL Max @@@ (Maximum time taken for CLOSE:In seconds)
CL Min @@@ (Minimum time taken for CLOSE:In seconds)
  
```

STR-VX700

4-2. BLOCK DIAGRAMS MAIN SECTION



POWER SECTION



THIS NOTE IS COMMON FOR PRINTED WIRING
BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed
in each block.)

For schematic diagrams.

Note:

- All capacitors are in μF unless otherwise noted. pF ; μF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- Δ : internal component.
- $\text{---}\frac{\text{W}}{\text{---}}$: nonflammable resistor.
- $\text{---}\frac{\text{FW}}{\text{---}}$: fusible resistor.
- --- : panel designation.

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

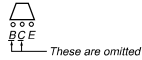
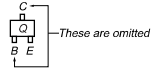
- $\text{B} +$: B+ Line.
- $\text{B} -$: B- Line.
- --- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 - --- : FM
 - --- : AM
 - --- : AUDIO (AV INPUT)
 - --- : MD/VIDEO
 - --- : VIDEO (AV INPUT)
 - --- : PB (DECK A)
 - --- : REC (DECK B)
 - --- : CD
- Abbreviation
 - HK : Hong Kong model
 - SP : Singapore model
 - MY : Malaysia model
 - TH : Thai model
 - EA : Saudi Arabia model

For printed wiring boards.

Note:

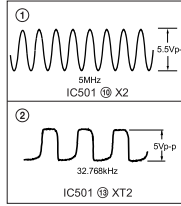
- --- : parts extracted from the component side.
- --- : parts extracted from the conductor side.
- $\blacksquare$: parts mounted on the conductor side.
- $\bigcirc$: Through hole.
- Δ : internal component.
- --- : Pattern from the side which enables seeing.

• Indication of transistor



Waveforms

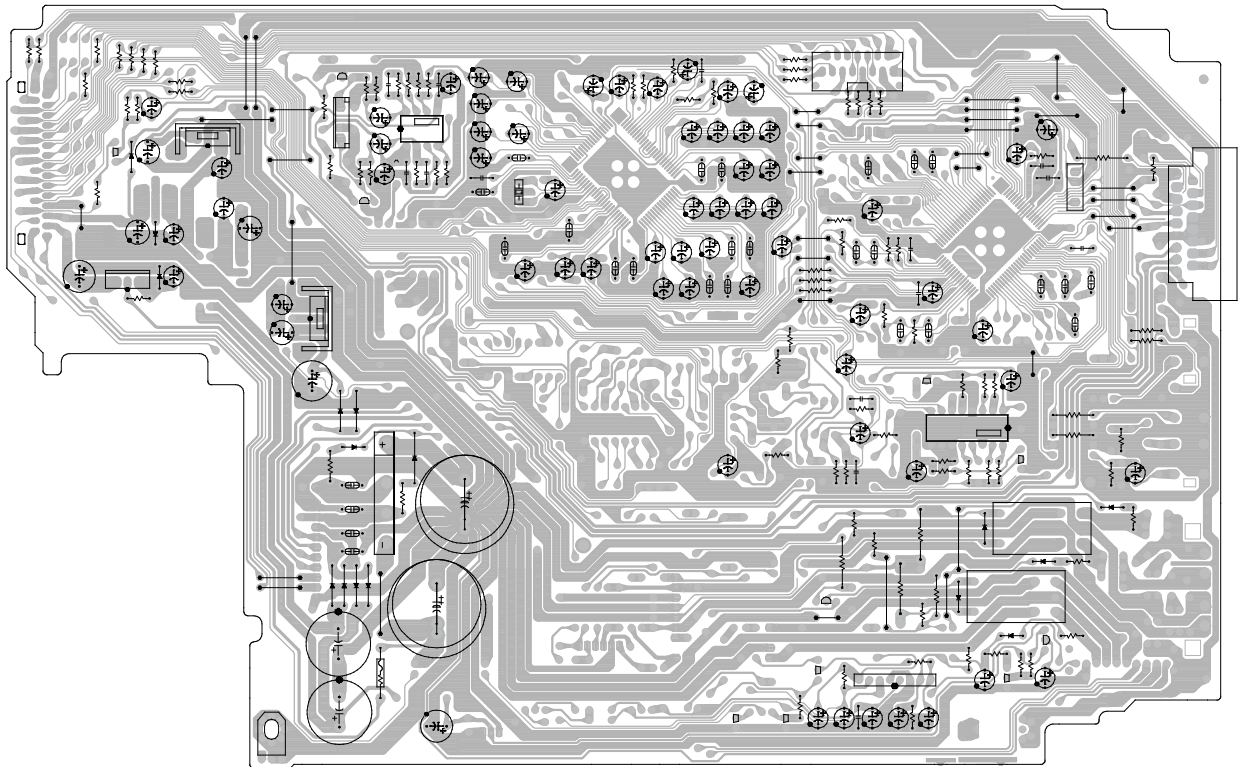
DISPLAY Section



4-3. PRINTED WIRING BOARD MAIN SECTION • Refer to page 9 for Circuit Boards Location.

• Semiconductor
Location

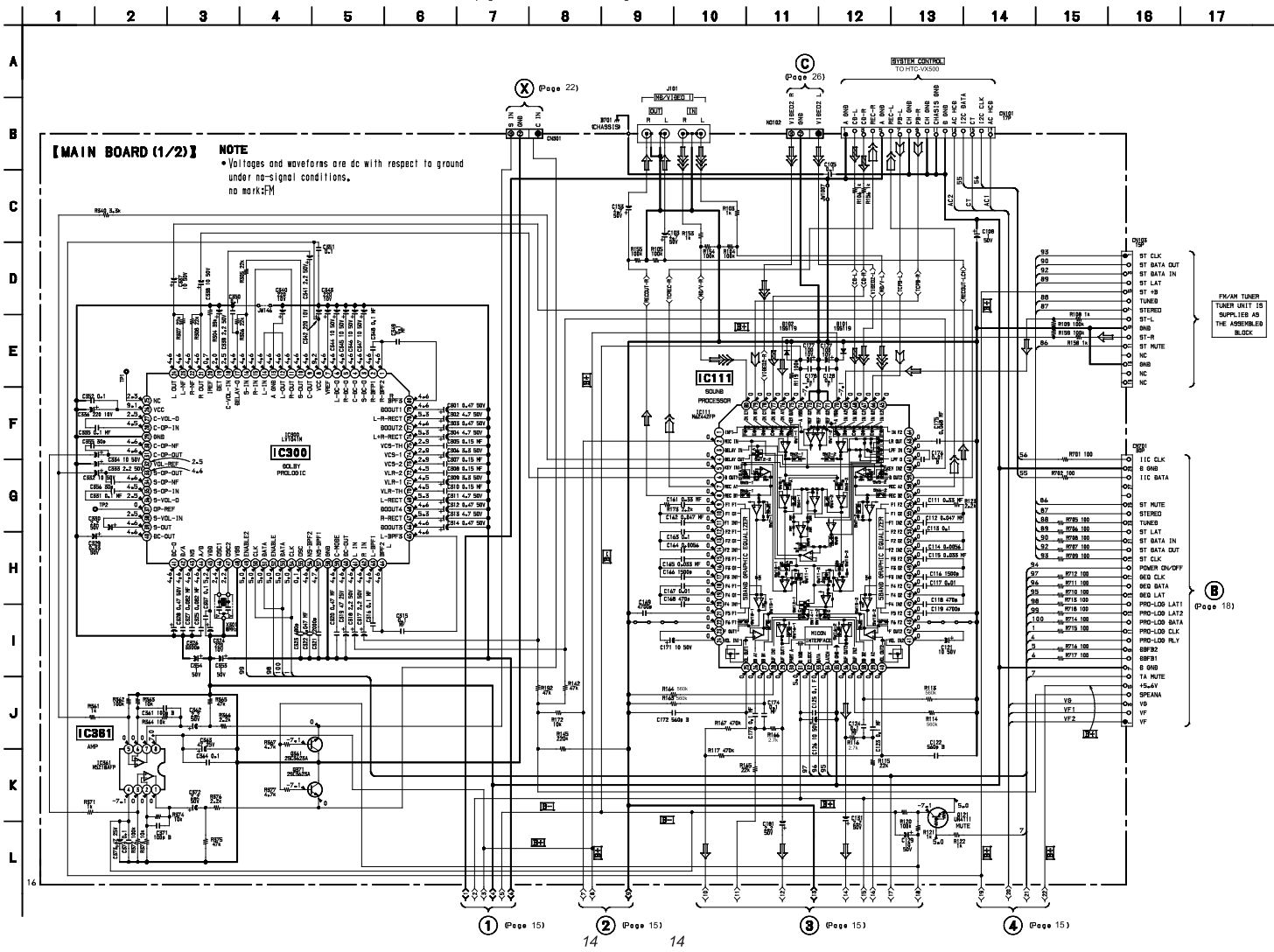
Ref. No.	Location
D101	B-11
D102	B-11
D131	E-9
D742	F-8
D743	F-10
D746	F-11
D751	F-11
D752	E-10
D761	E-12
D781	G-10
D801	E-4
D802	F-5
D803	E-4
D804	C-2
D805	F-4
D806	F-4
D807	F-4
D808	F-4
D810	E-4
D811	E-4
D812	C-2
D813	B-2
D851	F-8
D852	G-8
D853	G-8
IC111	C-10
IC112	E-10
IC113	E-9
IC300	A-7
IC361	A-5
IC801	B-2
IC802	C-3
IC803	B-2
IC804	D-4
IC851	G-9
Q121	B-2
Q132	D-10
Q182	E-11
Q183	E-8
Q361	B-4
Q371	A-4
Q731	F-11
Q732	G-10
Q741	F-9
Q801	C-2
Q851	G-9
Q852	H-8
Q853	H-8
Q854	G-7
Q855	G-6



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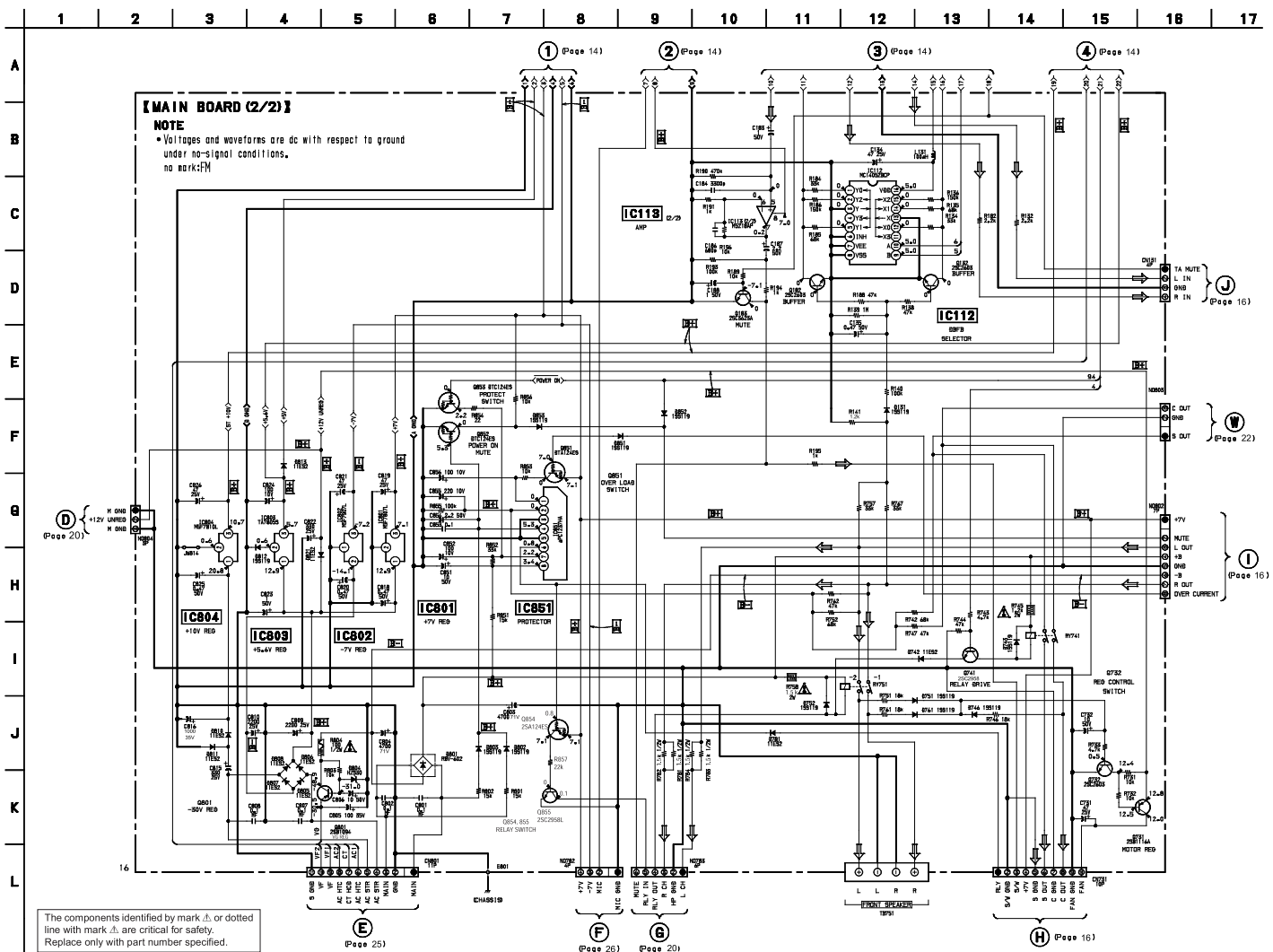
4-4. SCHEMATIC DIAGRAM MAIN (1/2) SECTION

• Refer to page 13 for Printed Wiring Board..
• Refer to page 28 to 29 for IC Block Diagrams.

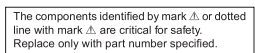


4-5. SCHEMATIC DIAGRAM MAIN (2/2) SECTION

- Refer to page 13 for Printed Wiring Board.
- Refer to page 29 for IC Block Diagrams.

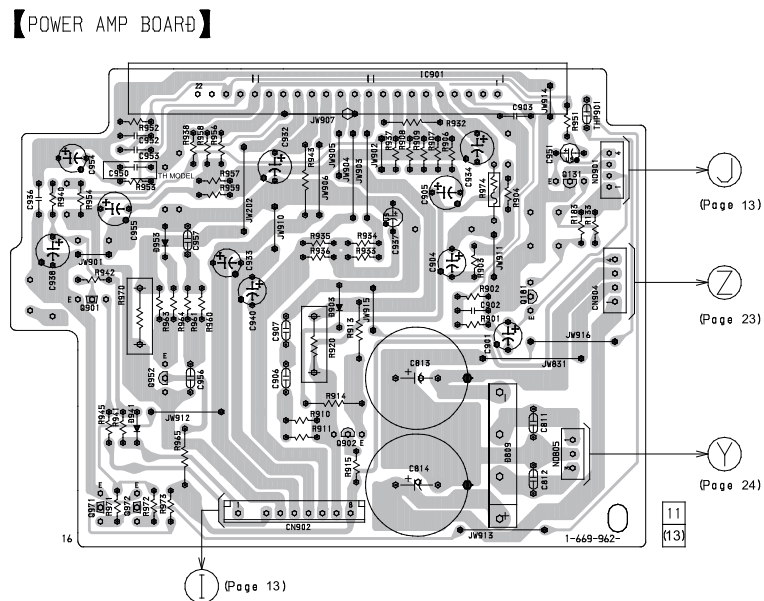
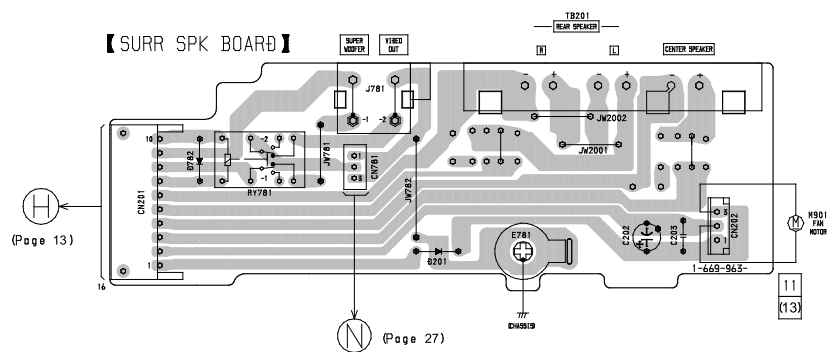


4-6. SCHEMATIC DIAGRAM POWER AMP SECTION



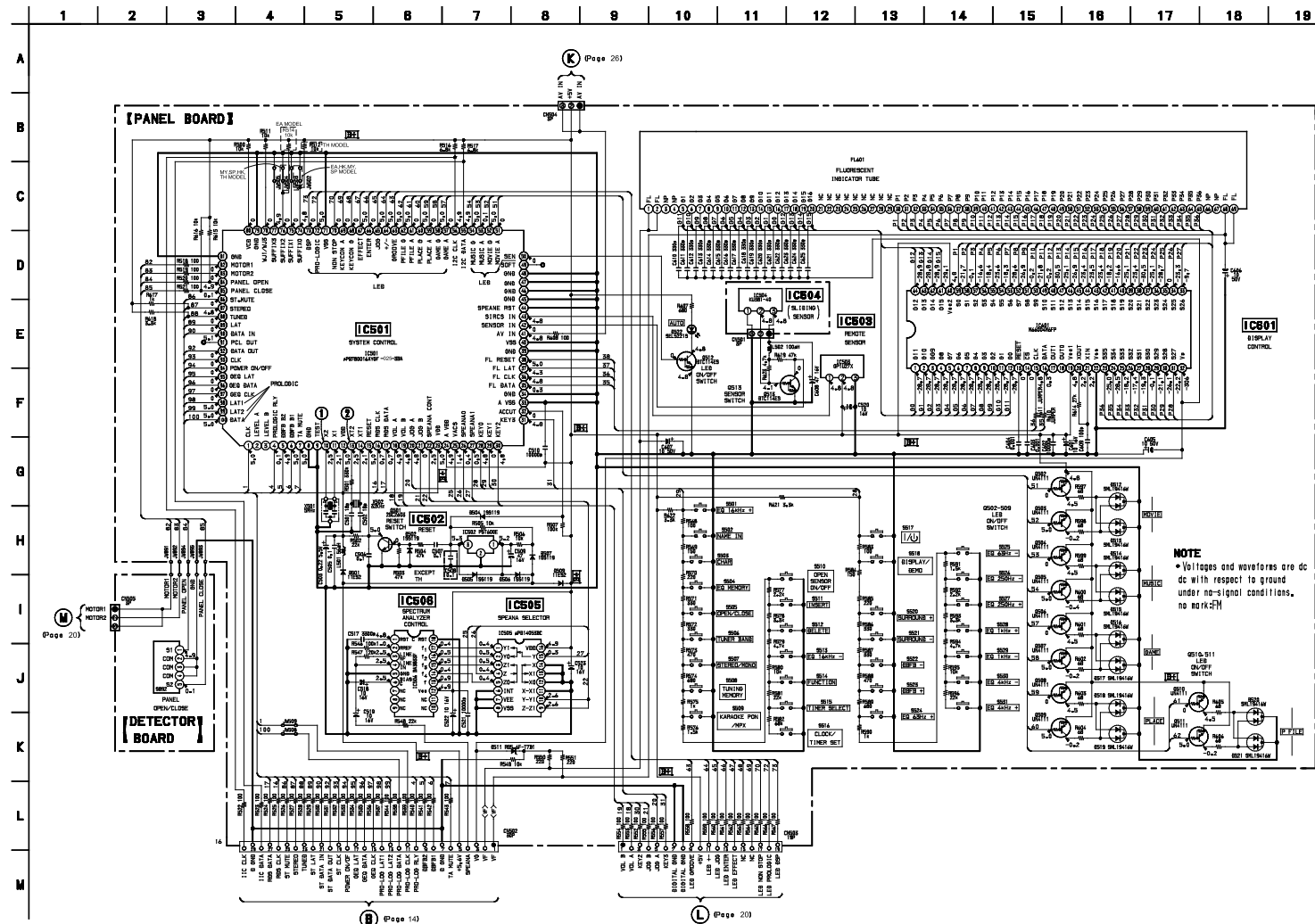
4-7. PRINTED WIRING BOARD POWER AMP SECTION

- Refer to page 9 for Circuit Boards Location.

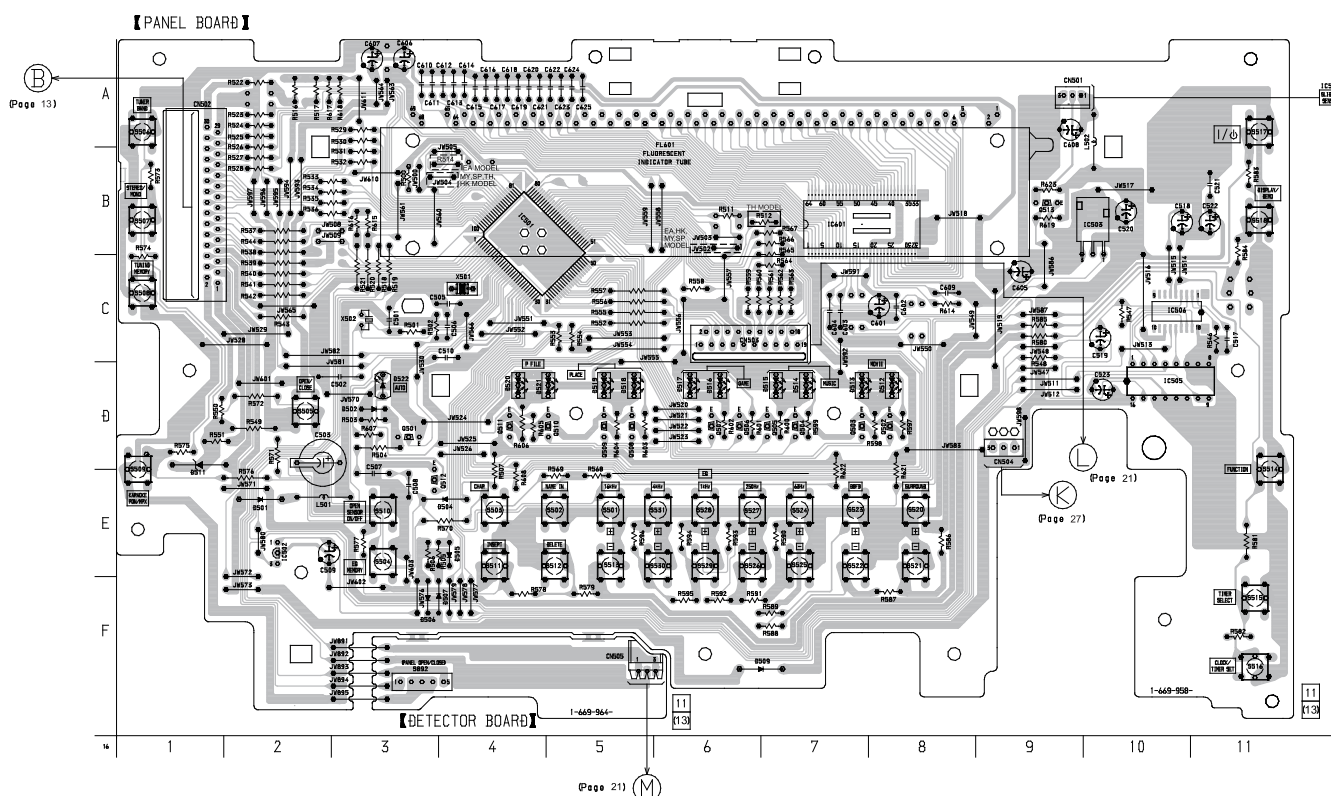


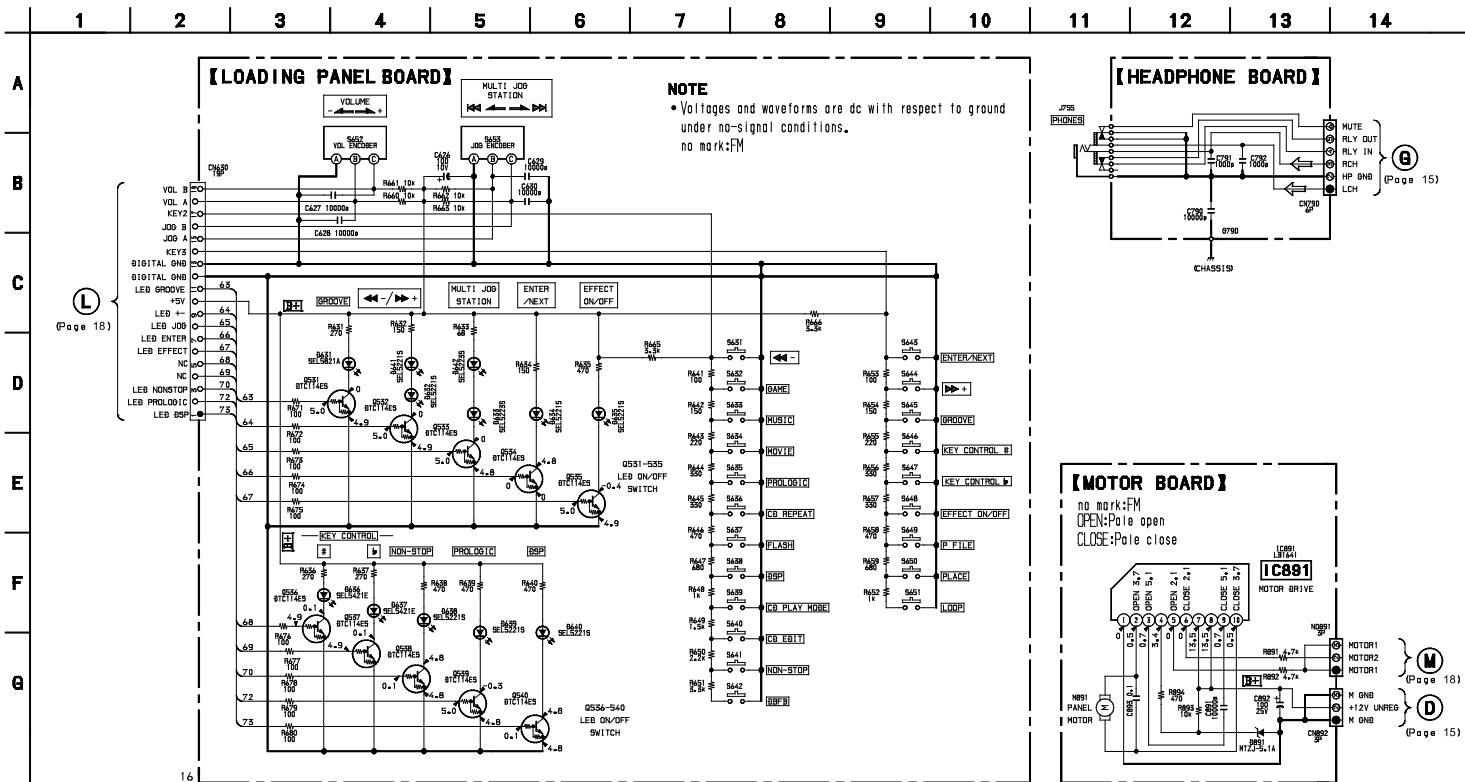
4-8. SCHEMATIC DIAGRAM DISPLAY SECTION

- Refer to page 30 for IC Block Diagrams.
- Refer to page 12 for Waveform.



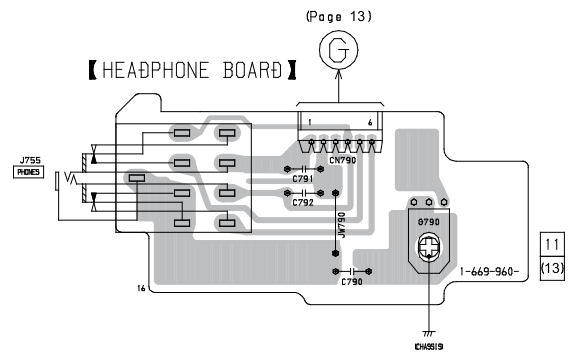
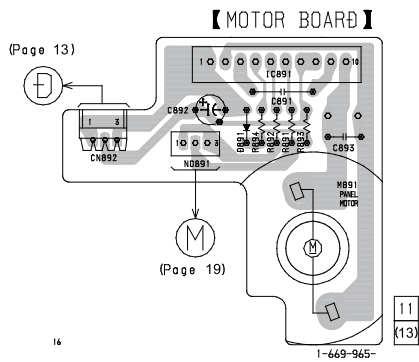
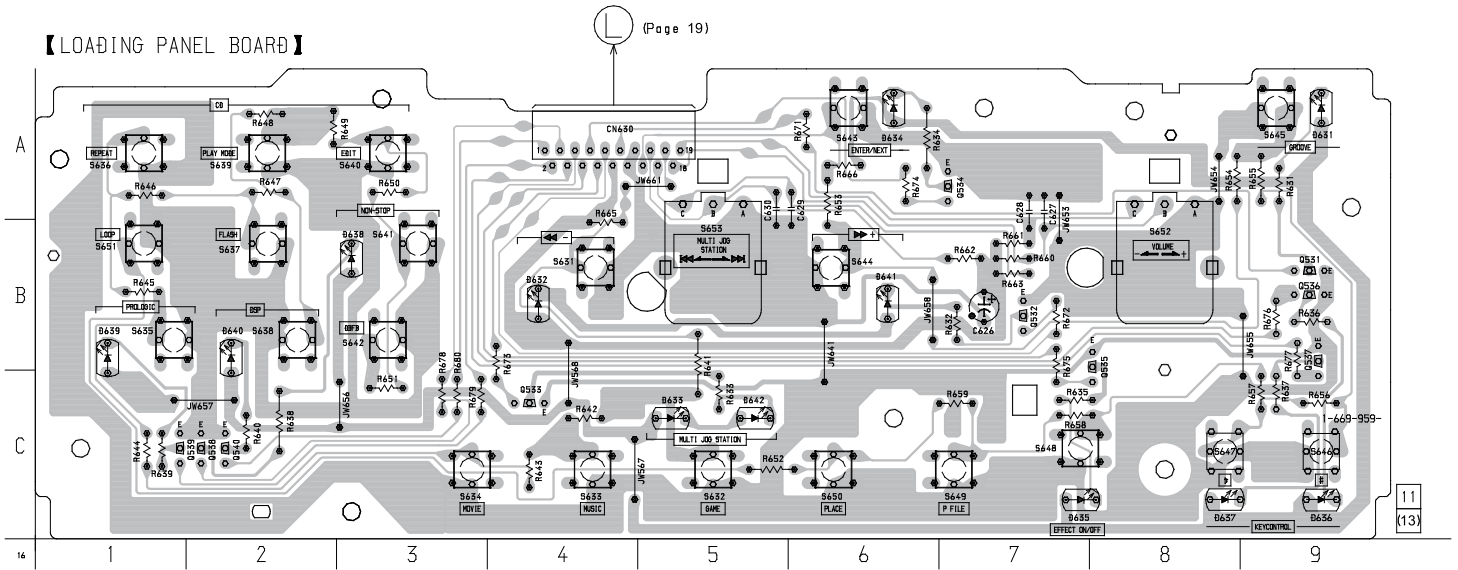
- Refer to page 9 for Circuit Boards Location.

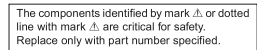




4-11. PRINTED WIRING BOARD SLIDING PANEL SECTION

• Refer to page 9 for Circuit Boards Location.

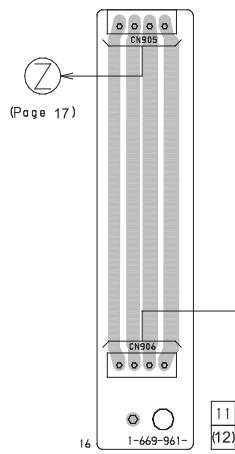




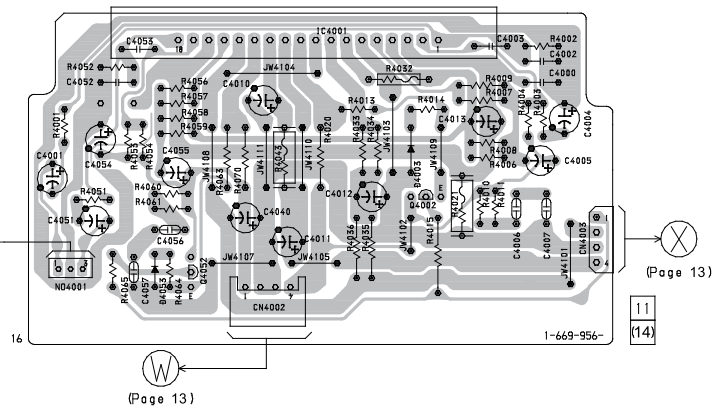
4-13. PRINTED WIRING BOARD SURROUND AMP SECTION

• Refer to page 9 for Circuit Boards Location.

【CONNECTOR BOARD】

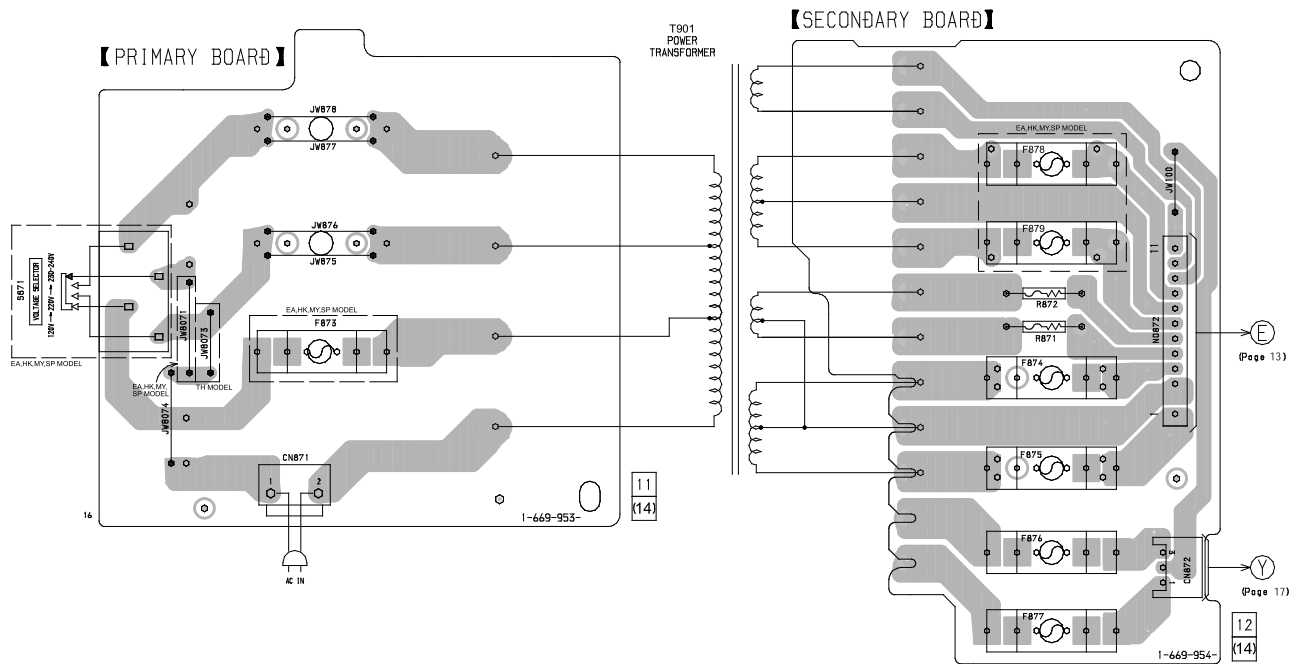


【Surr AMP BOARD】

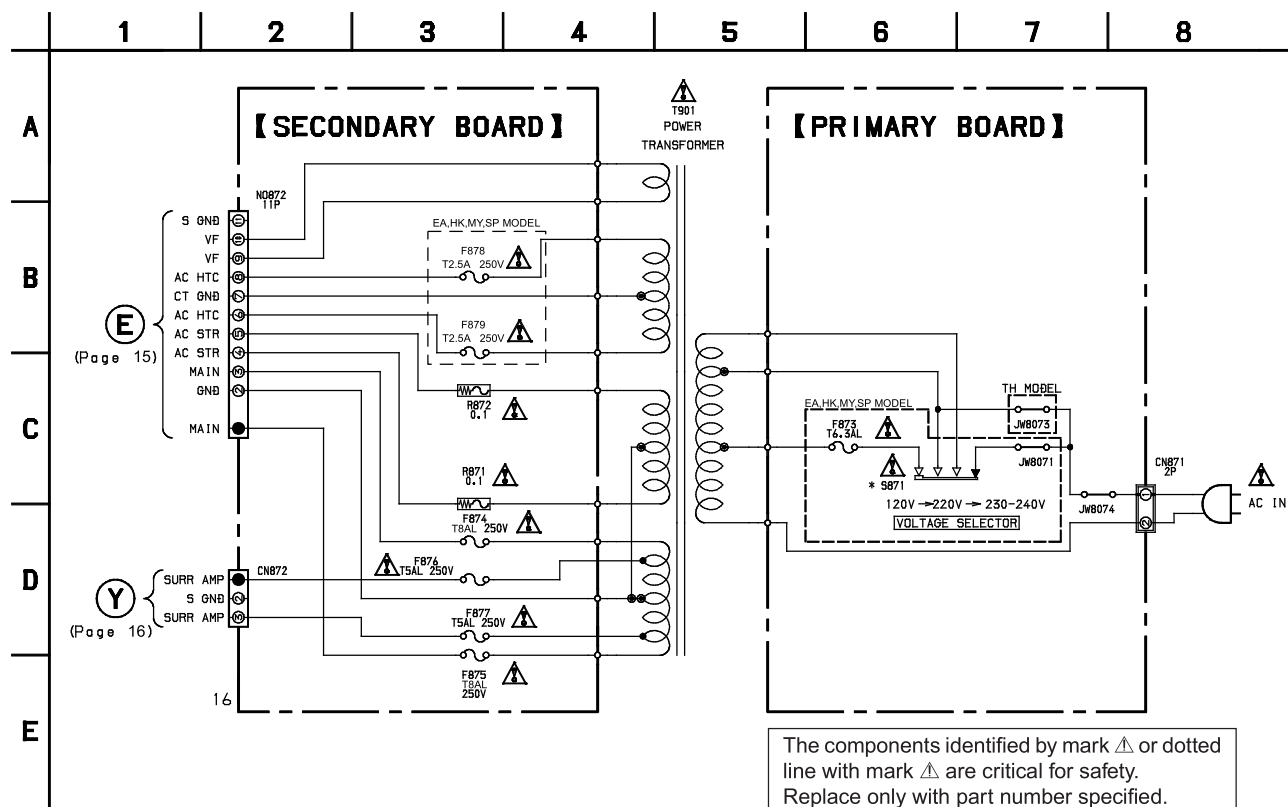


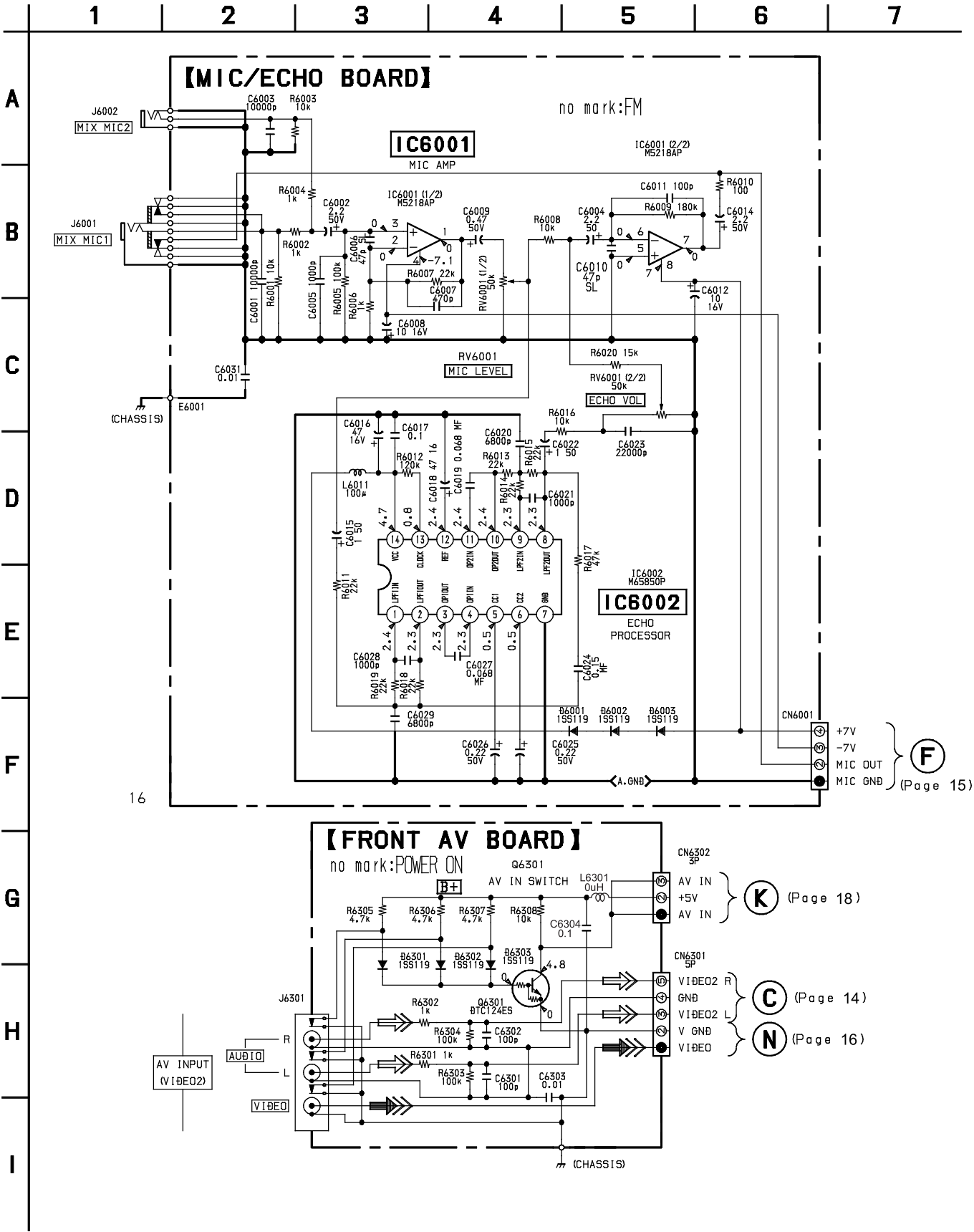
STR-VX700

4-14. PRINTED WIRING BOARD TRANS SECTION • Refer to page 9 for Circuit Boards Location.



4-15. SCHEMATIC DIAGRAM TRANS SECTION

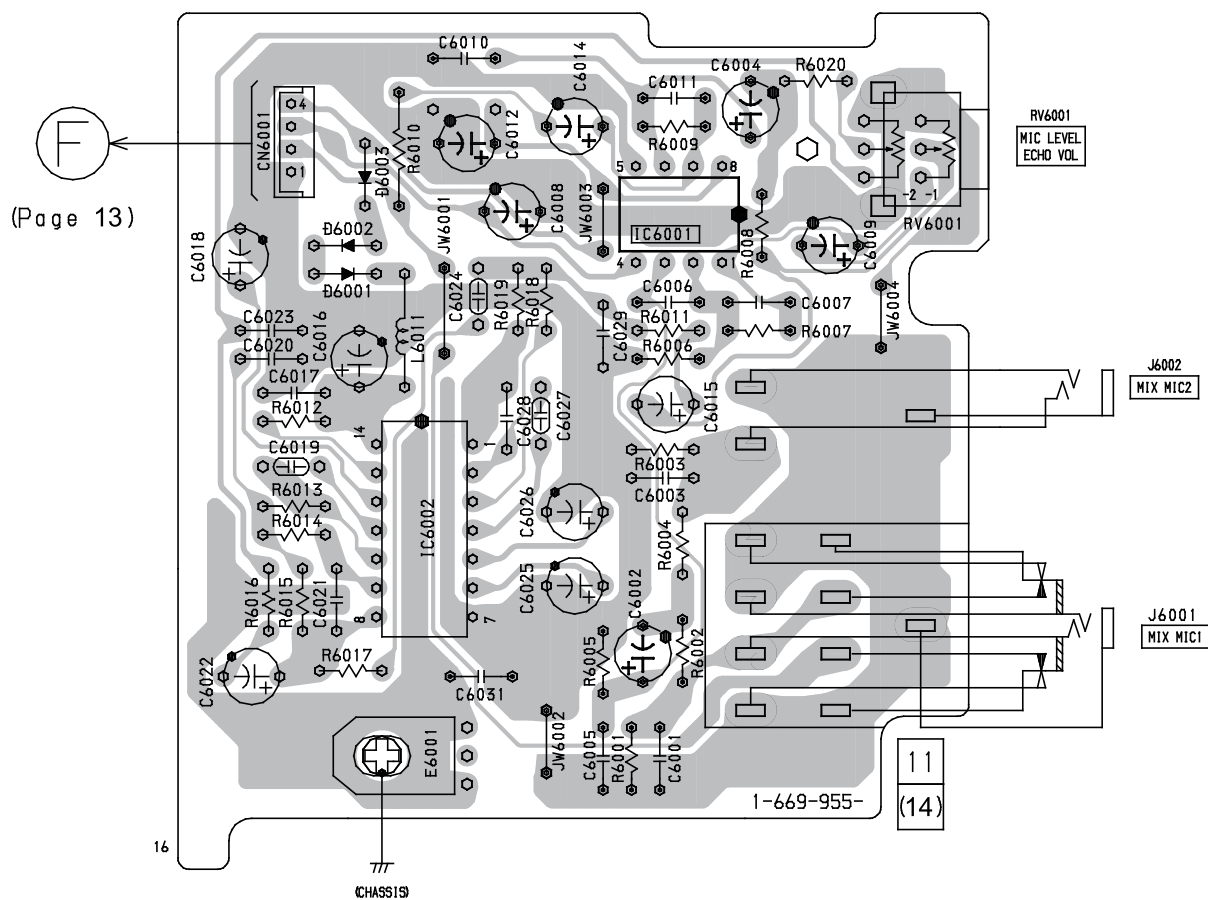




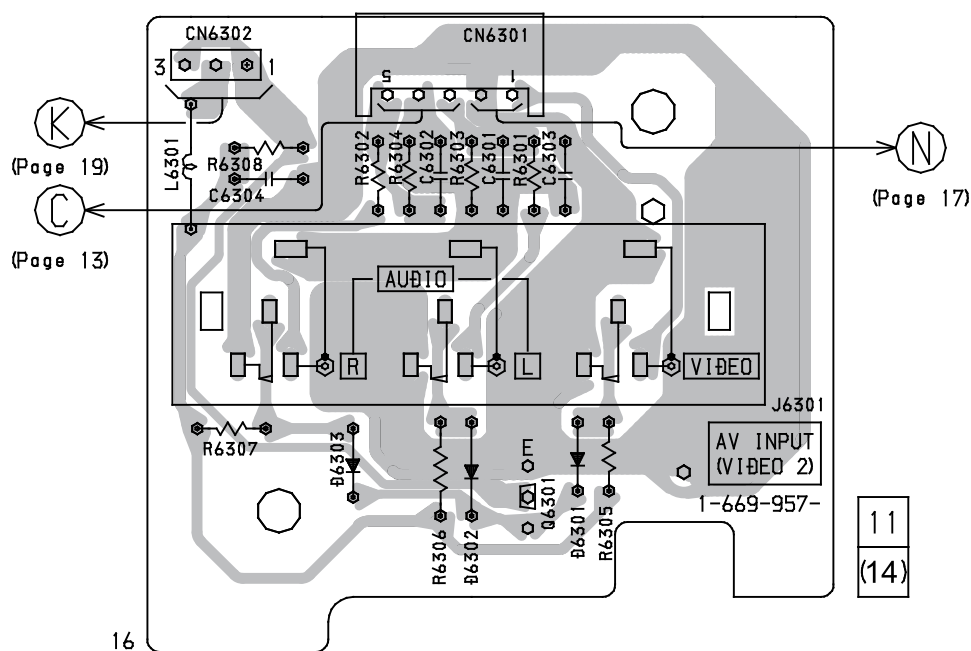
4-17. PRINTED WIRING BOARD AV/MIC SECTION

• Refer to page 9 for Circuit Boards Location.

【MIC/ECHO BOARD】



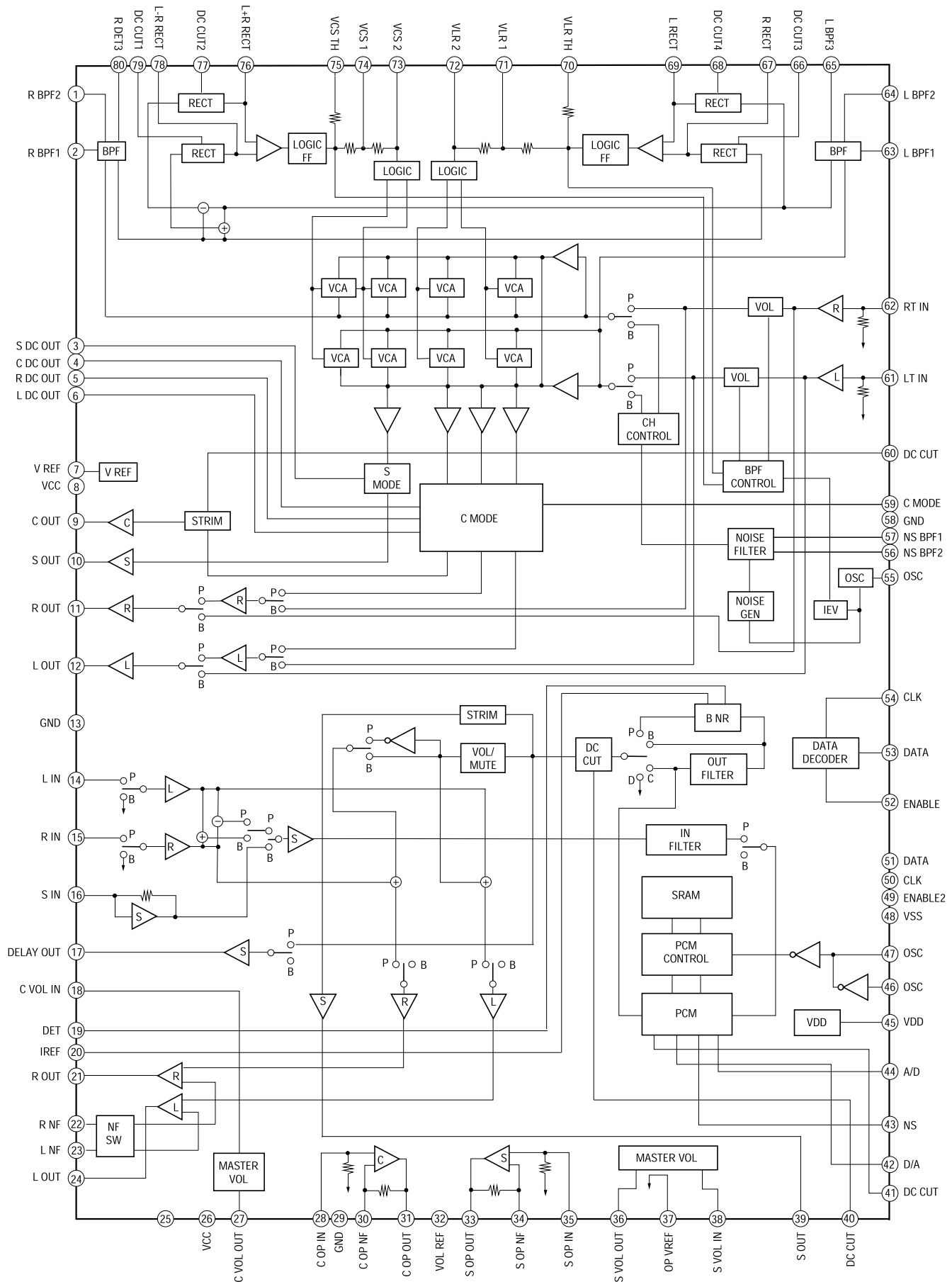
【FRONT AV BOARD】



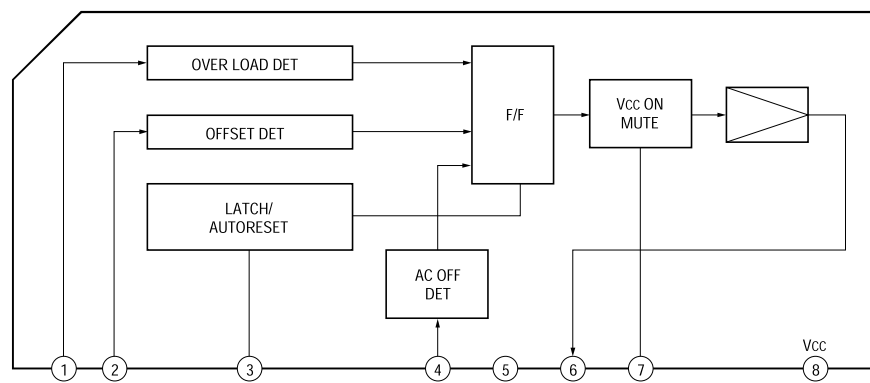
4-18. IC BLOCK DIAGRAMS

• MAIN BOARD

IC300 LV1041M

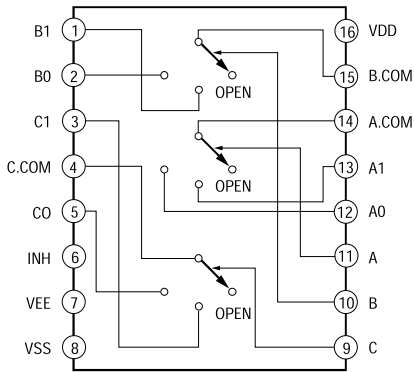


IC851 μ PC1237HA

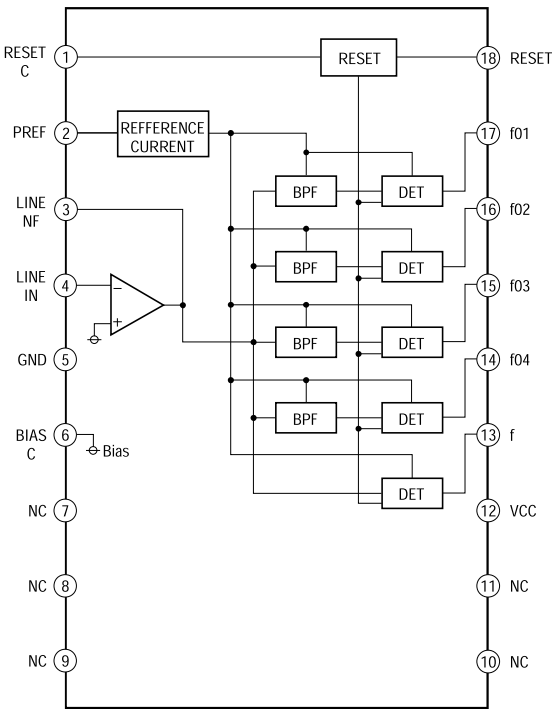


• PANEL BOARD

IC505 μ PD4053BC

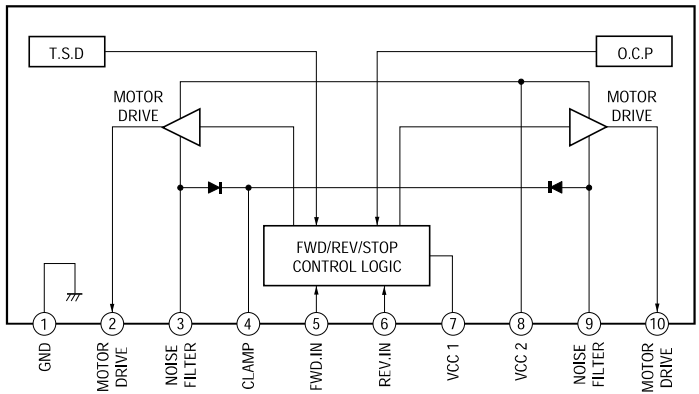


IC506 BA3833F-E2



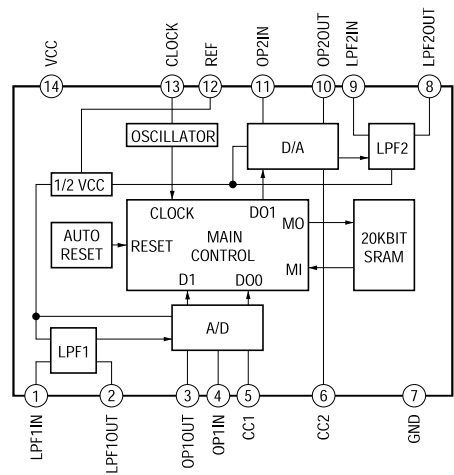
• MOTOR BOARD

IC891 LB1641



• MIC/ECHO BOARD

IC6002 M65850P



4-19. IC PIN FUNCTION

• IC501 SYSTEM CONTROL (uPD780016AYGF-025-3BA)(PANEL BOARD)

Pin No.	Pin Name	I/O	Description
1	CLK	O	Prologic clock output
2	LEVEL A	O	Not used
3	LEVEL B	O	Not used
4	PROLOGIC RLY	O	Prologic relay drive signal output
5	DBFB B2	O	DBFB level 2 signal output
6	DBFB B1	O	DBFB level 1 signal output
7	TA MUTE	O	Mute signal output
8	GND	—	Ground
9	TEST	—	Test terminal (Connected to ground)
10	X2	O	X' tal (5MHz)
11	X1	I	
12	VDD	—	Power supply (+5V)
13	XT2	O	X' tal (32kHz)
14	XT1	I	
15	RESET	I	Reset signal input
16	RDS CLK	I	RDS clock input
17	RDS DATA	I	RDS data input
18	VOL A	I	Rotary encoder (VOLUME) pulse input
19	VOL B	I	
20	JOG A	I	Rotary encoder (MULTI JOG STATION) pulse input
21	JOG B	I	
22	SPEANA CONT	O	Spectrum analyzer control output
23	VDD	—	Power supply (+5V)
24	A VDD	—	Analog power supply (+5V)
25	VACS	I	Audio input for VACS control
26	SPEANA0	I	Spectrum analyzer data input
27	SPEANA1	I	
28	KEY0	I	Key data input
29	KEY1	I	
30	KEY2	I	
31	KEY3	I	
32	ACCUT	I	Back up signal input
33	A VSS	—	Analog ground
34	GND	—	Ground
35	FL DATA	O	FL data output
36	FL CLK	O	FL clock output
37	FL LAT	O	FL latch output
38	FL RESET	O	FL reset output
39	GND	—	Ground
40	VSS	—	Ground

• Abbreviation

FL : Fluorescent indicator tube

Pin No.	Pin Name	I/O	Description
41	AV IN	I	AV INPUT (VIDEO 2) switch input
42	SENSOR IN	I	Sliding (panel) sensor signal input
43	SIRCS IN	I	Remote sensor signal input
44	SPEANE RST	O	Spectrum analyzer reset output
45	GND	—	Ground
46	GND	—	
47	GND	—	
48	GND	—	
49	SOFT	O	Soft test terminal
50	SEN	O	Audio indicator output
51	MOVIE A	O	LED driver output
52	MOVIE G	O	
53	MUSIC A	O	
54	MUSIC G	O	
55	I2C DATA	I/O	Serial data input/output
56	I2C CLK	I/O	Serial clock input/output
57	GAME A	O	LED driver output
58	GAME G	O	
59	PLACE A	O	
60	PLACE G	O	
61	PFILE A	O	
62	PFILE G	O	
63	GROOVE	O	
64	+/-	O	
65	JOG	O	
66	ENTER	O	
67	EFFECT	O	
68	KEYCON G	—	Not used
69	KEYCON A	—	
70	NON STOP	O	LED driver output
71	VSS	—	Ground
72	DELAY	O	LED driver output
73	REVER B	O	
74	SUFFIX0	I	Destination terminal
75	SUFFIX1	I	
76	SUFFIX2	I	
77	SUFFIX3	I	
78	WJ1/WJ3	I	Model select terminal
79	GND	—	Ground
80	VCD	I	VCD select terminal “L”: NON-VCD (Connected to ground)

Pin No.	Pin Name	I/O	Description
81	GND	—	Ground
82	MOTOR1	O	Panel motor control output
83	MOTOR2	O	
84	PANEL OPEN	O	Panel open switch output
85	PANEL CLOSE	O	Panel close switch output
86	ST. MUTE	O	ST mute signal output
87	STEREO	I	Stereo detection input for tuner
88	TUNED	I	Tuner detection input for tuner
89	LAT	O	Tuner PLL latch output
90	DATA IN	I	Tuner PLL data input
91	PCL OUT	O	Sub clock output
92	DATA OUT	O	Tuner PLL data output
93	CLK	O	Tuner clock output
94	POWER ON/OFF	O	Power on/off control output
95	GEQ LAT	O	GEQ latch output
96	GEQ DATA	O	GEQ data output
97	GEQ CLK	O	GEQ clock output
98	LAT1	O	Prologic latch 1 output
99	LAT2	O	Prologic latch 2 output
100	DATA	O	Prologic DATA output

- Abbreviation
 GEQ : Graphic Equalizer
 PLL : Phase Locked Loop

SECTION 5 EXPLODED VIEWS

NOTE:

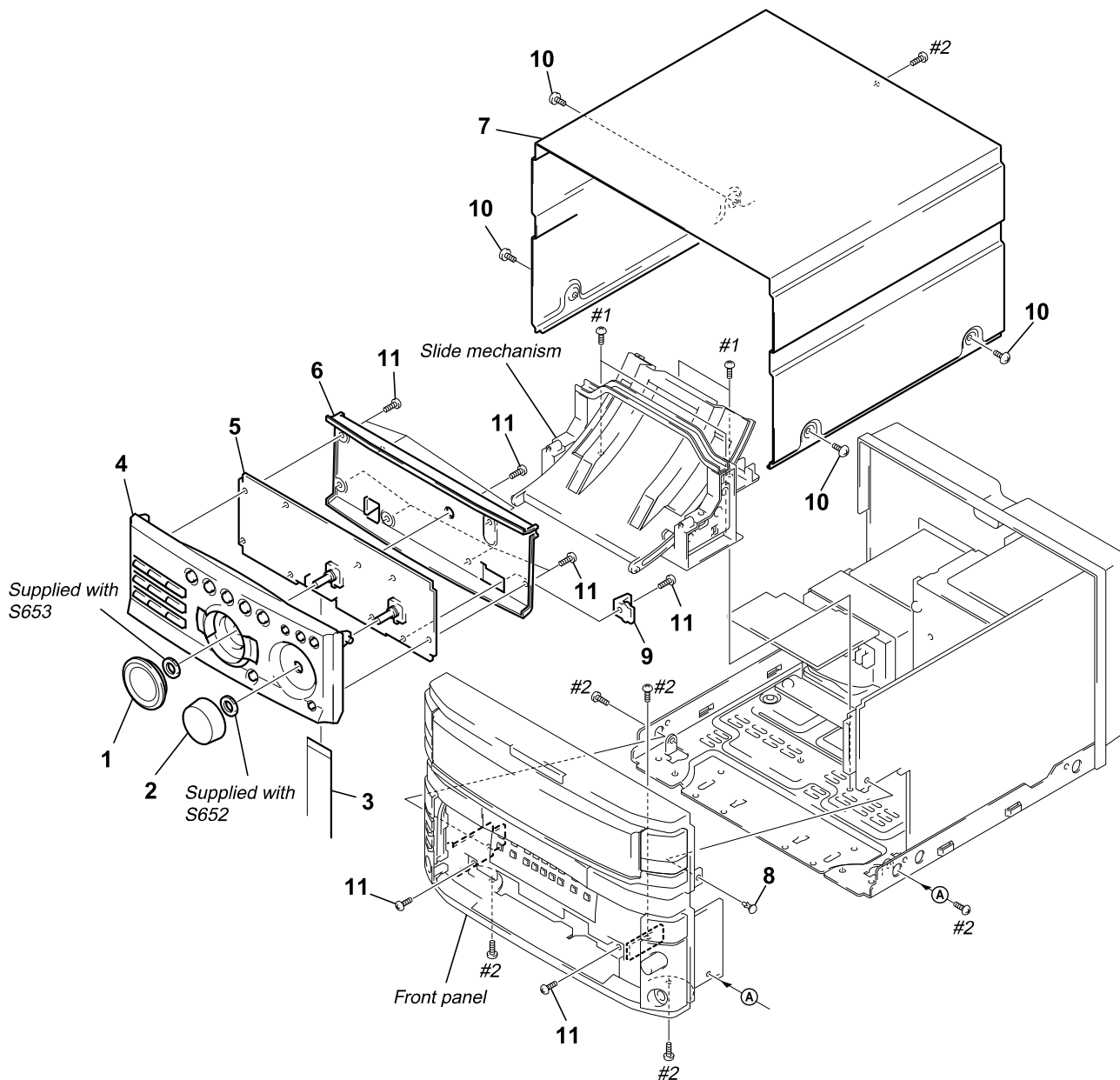
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
 - HK : Hong Kong model
 - SP : Singapore model
 - MY : Malaysia model
 - TH : Thai model
 - EA : Saudi Arabia model

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

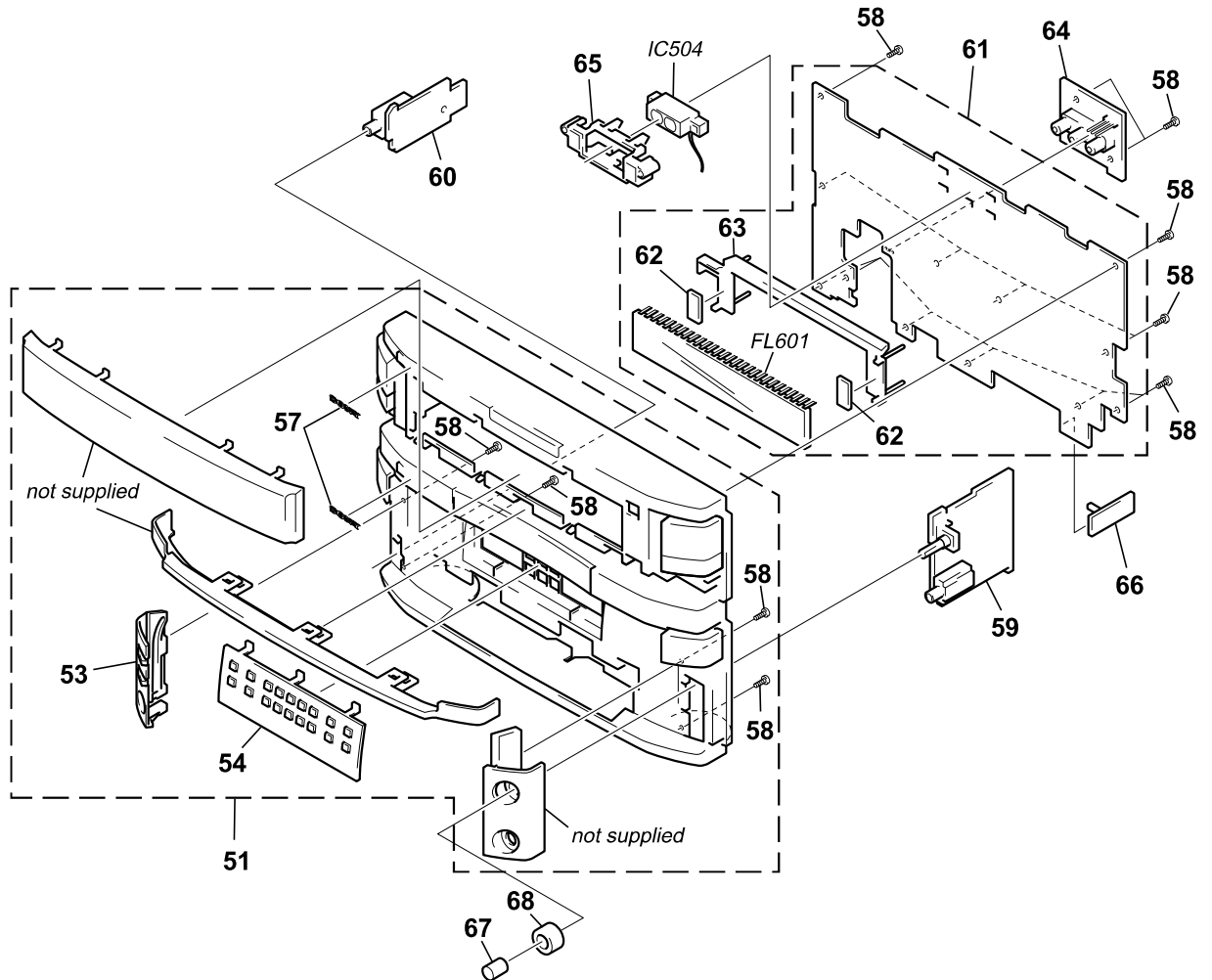
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

5-1. CASE AND SLIDING PANEL SECTION



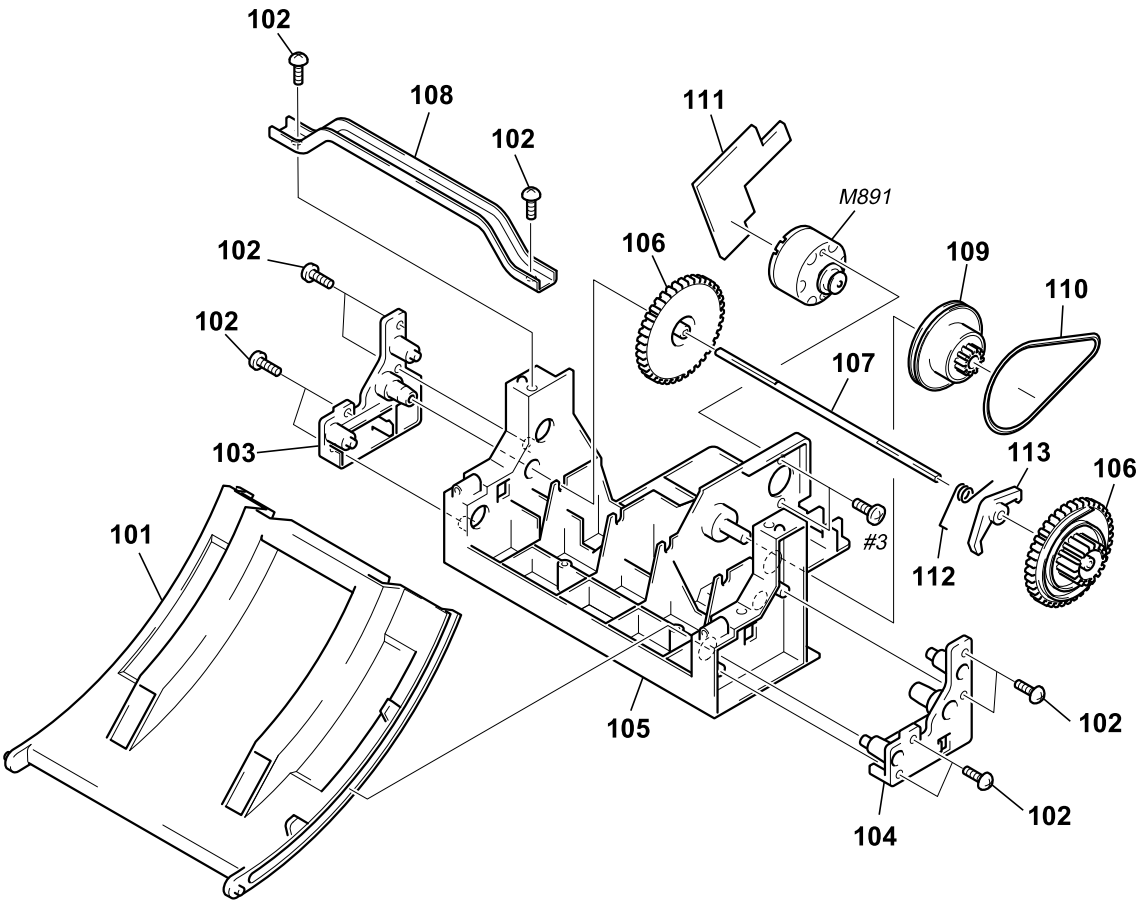
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	4-219-918-01	KNOB (JOG)		6	4-900-855-02	COVER	
	X-4951-659-1	KNOB VOL ASSY		* 7	4-900-858-01	UPPER CASE	
3	1-773-125-11	WIRE (FLAT TYPE) (19 CORE)		8	4-812-134-00	RIVET (DIA. 3.5), NYLON	
4	X-4951-773-1	SLIDING PANEL SUB ASSY		* 9	4-900-852-02	HOLDER LEVEL	
* 5	A-4414-709-A	LOADING PANEL BOARD, COMPLETE (EA,HK,MY,SP)		10	3-363-099-01	SCREW (CASE 3 TP2)	
* 5	A-4414-692-A	LOADING PANEL BOARD, COMPLETE (TH)		11	4-951-620-11	SCREW (2.6 × 10), +BVTP	

5-2. FRONT PANEL SECTION



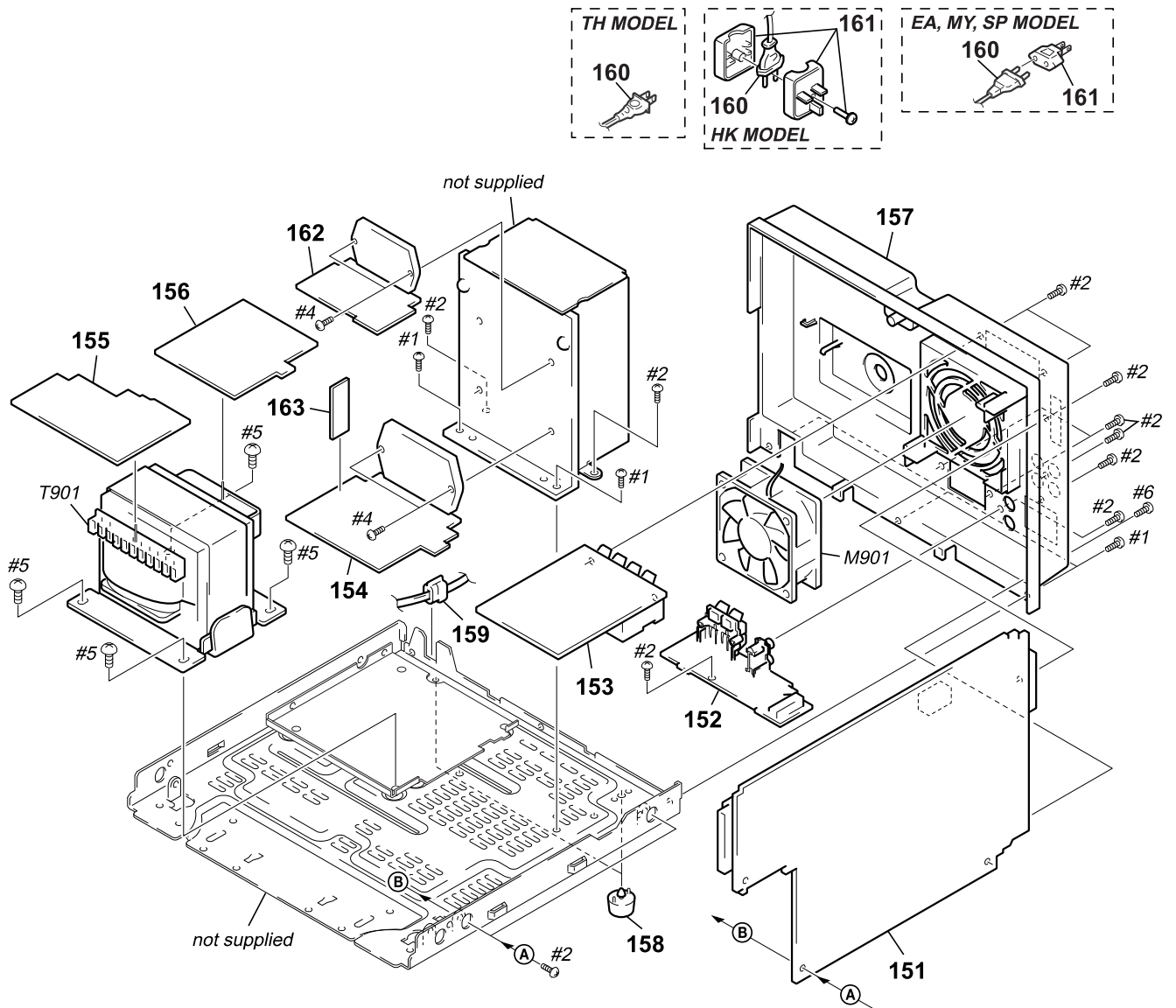
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
51	X-4951-774-1	FRONT PANEL ASSY		* 61	A-4426-835-A	PANEL BOARD, COMPLETE (EA)	
53	X-4951-665-1	ESCUTCHEON (L) ASSY		* 62	4-932-810-11	CUSHION (FL)	
54	X-4949-994-1	ESCUTCHEON (EQ) ASSY		* 63	4-900-849-01	HOLDER (FL)	
57	4-962-708-11	EMBLEM (4-A), SONY		* 64	1-669-957-11	FRONT AV BOARD	
58	4-951-620-01	SCREW (2.6 × 8), +BVTP		65	4-900-845-01	BRACKET SLIDER	
* 59	A-4414-708-A	MIC/ECHO BOARD, COMPLETE (EA, HK, MY, SP)		* 66	1-669-964-11	DETECTOR BOARD	
* 59	A-4414-691-A	MIC/ECHO BOARD, COMPLETE (TH)		67	4-900-868-11	KNOB (CENTER)	
* 60	1-669-960-11	HEADPHONE BOARD		68	4-900-867-11	KNOB (CONTROL)	
* 61	A-4417-076-A	PANEL BOARD, COMPLETE (HK, MY, SP)		FL601	1-517-775-11	INDICATOR TUBE, FLUORESCENT	
* 61	A-4417-069-A	PANEL BOARD, COMPLETE (TH)		IC504	8-719-070-85	IC KU381-40	

5-3. SLIDE MECHANISM SECTION



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
101	4-900-844-01	LEVEL SLIDER		108	4-900-864-01	BRACKET TOP	
102	4-951-620-01	SCREW (2.6X8), +BVTP		109	4-900-847-01	GEAR (2)	
103	X-4950-394-2	HOLDER (L) ASSY		110	3-344-059-01	BELT (L)	
104	X-4950-395-2	HOLDER (R) ASSY		* 111	1-669-965-11	MOTOR BOARD	
* 105	4-210-042-01	BRACKET (SENSOR)		112	4-212-966-01	SPRING LEVEL	
106	4-900-846-01	GEAR (1)		113	4-212-965-01	STOPPER LEVEL	
107	4-900-862-01	SHAFT CENTER		M891	A-4660-926-A	MOTOR (CDM) ASSY	

5-4. CIRCUIT BOARDS AND BACK PANEL SECTION



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
* 151	A-4419-955-A	MAIN BOARD, COMPLETE (EA,HK,MY,SP)		158	4-970-381-11	FOOT (REAR)	
* 151	A-4426-816-A	MAIN BOARD, COMPLETE (TH)		* 159	3-703-244-00	BUSHING (2104), CORD (EA,HK,MY,SP)	
* 152	1-669-963-11	SURR SPK BOARD		* 159	3-703-571-11	BUSHING (S) (4516), CORD (TH)	
153	1-233-545-32	ENCAPSULATED COMPONENT (AM/FM TUNER) (TH)		△ 160	1-751-326-31	CORD, POWER (TH)	
153	1-233-546-32	ENCAPSULATED COMPONENT (AM/FM TUNER) (EA,HK,MY,SP)		△ 160	1-777-071-21	CORD, POWER (EA,HK,MY,SP)	
* 154	A-4419-957-A	POWER AMP BOARD, COMPLETE (EA,HK,MY,SP)		△ 161	1-569-008-21	ADAPTOR, CONVERSION 2P (EA,MY,SP)	
* 154	A-4426-819-A	POWER AMP BOARD, COMPLETE (TH)		△ 161	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (HK)	
* 155	1-669-954-12	SECONDARY BOARD		* 162	A-4414-775-A	SURR AMP BOARD, COMPLETE (TH)	
* 156	1-669-953-11	PRIMARY BOARD		* 162	A-4414-219-A	SURR AMP BOARD, COMPLETE (EA,HK,MY,SP)	
* 157	4-900-848-61	BACK PANEL (EA,HK,MY,SP)		* 163	1-669-961-11	CONNECTOR BOARD	
* 157	4-900-848-71	BACK PANEL (TH)		M901	1-763-372-11	FAN, DC	
				△ T901	1-433-931-11	TRANSFORMER, POWER	

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

CONNECTOR

DETECTOR

FRONT AV

HEADPHONE

LOADING PANEL

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

- 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: μF
- RESISTORS
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable
 - COILS
uH: μH
 - SEMICONDUCTORS
In each case, u: μ, for example:
uA...: μA... , uPA... , μPA... ,
uPB... , μPB... , uPC... , μPC... ,
uPD..., μPD...
- Abbreviation
HK : Hong Kong model
SP : Singapore model
MY : Malaysia model
TH : Thai model
EA : Saudi Arabia model
- When indicating parts by reference number, please include the board name.
- The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remarks				Ref. No.	Part No.	Description	Remarks			
*	1-669-961-11	CONNECTOR BOARD *****							< RESISTOR >				
		< CONNECTOR >					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	
* CN905	1-691-174-11	CONNECTOR (BOARD TO BOARD) 4P					R6304	1-249-441-11	CARBON	100K	5%	1/4W	
CN906	1-691-161-11	PIN, CONNECTOR 4P					R6305	1-249-425-11	CARBON	4.7K	5%	1/4W F	

*	1-669-964-11	DETECTOR BOARD *****					R6306	1-249-425-11	CARBON	4.7K	5%	1/4W F	
							R6307	1-249-425-11	CARBON	4.7K	5%	1/4W F	
							R6308	1-249-429-11	CARBON	10K	5%	1/4W	

* CN505	1-568-941-11	PIN, CONNECTOR 3P					*	1-669-960-11	HEADPHONE BOARD *****				
		< SWITCH >											
S892	1-571-300-21	SWITCH, ROTARY (PANEL OPEN/CLOSE)							< CAPACITOR >				

*	1-669-957-11	FRONT AV BOARD *****					C790	1-162-306-11	CERAMIC	0.01uF	30%	16V	
							C791	1-162-294-31	CERAMIC	0.001uF	10%	50V	
							C792	1-162-294-31	CERAMIC	0.001uF	10%	50V	
		< CAPACITOR >							< CONNECTOR >				
C6301	1-162-282-31	CERAMIC	100PF	10%	50V								
C6302	1-162-282-31	CERAMIC	100PF	10%	50V	* CN790	1-568-944-11	PIN, CONNECTOR 6P					
C6303	1-162-306-11	CERAMIC	0.01uF	30%	16V			< TERMINAL >					
C6304	1-164-159-11	CERAMIC	0.1uF		50V								
		< CONNECTOR >					* G790	1-537-738-21	TERMINAL, EARTH				
									< JACK >				
* CN6301	1-564-520-11	PLUG, CONNECTOR 5P					J755	1-774-728-41	JACK (PHONES)(EA,HK,MY,SP)				
* CN6302	1-560-666-00	PIN, CONNECTOR 3P					J755	1-770-226-11	JACK (LARGE TYPE)(PHONES) (TH)				
		< DIODE >					*****						
D6301	8-719-911-19	DIODE 1SS119-25					*	A-4414-709-A	LOADING PANEL BOARD, COMPLETE				
D6302	8-719-911-19	DIODE 1SS119-25							(EA,HK,MY,SP)				
D6303	8-719-911-19	DIODE 1SS119-25							*****				
		< JACK >					*	A-4414-692-A	LOADING PANEL BOARD, COMPLETE (TH)				

J6301	1-784-901-11	JACK, PIN 3P (AV INPUT)							< CAPACITOR >				
		< COIL >					C626	1-124-584-00	ELECT	100uF	20%	10V	
L6301	1-412-473-21	INDUCTOR	0uH				C627	1-162-306-11	CERAMIC	0.01uF	30%	16V	
							C628	1-162-306-11	CERAMIC	0.01uF	30%	16V	
		< TRANSISTOR >					C629	1-162-306-11	CERAMIC	0.01uF	30%	16V	
							C630	1-162-306-11	CERAMIC	0.01uF	30%	16V	
Q6301	8-729-900-36	TRANSISTOR	DTC124ES						< CONNECTOR >				
							CN630	1-569-308-11	SOCKET, CONNECTOR (L TYRE) 19P				

Ref. No.	Part No.	Description	Remarks				Ref. No.	Part No.	Description	Remarks				
< DIODE >								R661	1-249-429-11	CARBON	10K	5%	1/4W	
							R662	1-249-429-11	CARBON	10K	5%	1/4W		
D631	8-719-046-39	DIODE	SEL5821A-TP15 (GROOVE)				R663	1-249-429-11	CARBON	10K	5%	1/4W		
D632	8-719-046-44	DIODE	SEL5221S-TP15 (REW)				R665	1-247-843-11	CARBON	3.3K	5%	1/4W		
D633	8-719-058-04	DIODE	SEL5223S-TP15 (MULTI JOG STATION)				R666	1-247-843-11	CARBON	3.3K	5%	1/4W		
D634	8-719-046-44	DIODE	SEL5221S-TP15 (ENTER/NEXT)											
D635	8-719-046-44	DIODE	SEL5221S-TP15 (EFFECT ON/OFF)				R671	1-247-807-31	CARBON	100	5%	1/4W		
						R672	1-247-807-31	CARBON	100	5%	1/4W			
D636	8-719-046-43	DIODE	SEL5421E-TP15 (KEY CONTROL #)				R673	1-247-807-31	CARBON	100	5%	1/4W		
D637	8-719-046-39	DIODE	SEL5821A-TP15 (KEY CONTROL b)				R674	1-247-807-31	CARBON	100	5%	1/4W		
D638	8-719-046-44	DIODE	SEL5221S-TP15 (NON-STOP)				R675	1-247-807-31	CARBON	100	5%	1/4W		
D639	8-719-046-44	DIODE	SEL5221S-TP15 (DSP)											
D640	8-719-046-44	DIODE	SEL5221S-TP15 (PROLOGIC)				R676	1-247-807-31	CARBON	100	5%	1/4W		
						R677	1-247-807-31	CARBON	100	5%	1/4W			
D641	8-719-046-44	DIODE	SEL5221S-TP15 (FF)				R678	1-247-807-31	CARBON	100	5%	1/4W		
D642	8-719-058-04	DIODE	SEL5223S-TP15 (MULTI JOG STATION)				R679	1-247-807-31	CARBON	100	5%	1/4W		
						R680	1-247-807-31	CARBON	100	5%	1/4W			
< TRANSISTOR >								< SWITCH >						
Q531	8-729-900-80	TRANSISTOR	DTC114ES				S631	1-762-751-11	SWITCH, TACTILE (REW)					
Q532	8-729-900-80	TRANSISTOR	DTC114ES				S632	1-762-751-11	SWITCH, TACTILE (GAME)					
Q533	8-729-900-80	TRANSISTOR	DTC114ES				S633	1-762-751-11	SWITCH, TACTILE (MUSIC)					
Q534	8-729-900-80	TRANSISTOR	DTC114ES				S634	1-762-751-11	SWITCH, TACTILE (MOVIE)					
Q535	8-729-900-80	TRANSISTOR	DTC114ES				S635	1-762-751-11	SWITCH, TACTILE (PROLOGIC)					
Q536	8-729-900-80	TRANSISTOR	DTC114ES				S636	1-762-751-11	SWITCH, TACTILE (CD FLASH)					
Q537	8-729-900-80	TRANSISTOR	DTC114ES				S637	1-762-751-11	SWITCH, TACTILE (FLASH)					
Q538	8-729-900-80	TRANSISTOR	DTC114ES				S638	1-762-751-11	SWITCH, TACTILE (DSP)					
Q539	8-729-900-80	TRANSISTOR	DTC114ES				S639	1-762-751-11	SWITCH, TACTILE (CD PLAY MODE)					
Q540	8-729-900-80	TRANSISTOR	DTC114ES				S640	1-762-751-11	SWITCH, TACTILE (CD EDIT)					
< RESISTOR >								S641	1-762-751-11	SWITCH, TACTILE (NON-STOP)				
R631	1-249-410-11	CARBON	270	5%	1/4W	F	S642	1-762-751-11	SWITCH, TACTILE (DBFB)					
R632	1-249-407-11	CARBON	150	5%	1/4W	F	S643	1-762-751-11	SWITCH, TACTILE (ENTER/NEXT)					
R633	1-249-403-11	CARBON	68	5%	1/4W	F	S644	1-762-751-11	SWITCH, TACTILE (FF)					
R634	1-249-407-11	CARBON	150	5%	1/4W	F	S645	1-762-751-11	SWITCH, TACTILE (GROOVE)					
R635	1-249-413-11	CARBON	470	5%	1/4W	F								
							S646	1-762-751-11	SWITCH, TACTILE (KEY CONTROL #)					
R636	1-249-410-11	CARBON	270	5%	1/4W	F	S647	1-762-751-11	SWITCH, TACTILE (KEY CONTROL b)					
R637	1-249-410-11	CARBON	270	5%	1/4W	F	S648	1-762-751-11	SWITCH, TACTILE (EFFECT ON/OFF)					
R638	1-249-413-11	CARBON	470	5%	1/4W	F	S649	1-762-751-11	SWITCH, TACTILE (P FILE)					
R639	1-249-413-11	CARBON	470	5%	1/4W	F	S650	1-762-751-11	SWITCH, TACTILE (PLACE)					
R640	1-249-413-11	CARBON	470	5%	1/4W	F								
							S651	1-762-751-11	SWITCH, TACTILE (LOOP)					
R641	1-247-807-31	CARBON	100	5%	1/4W		S652	1-473-392-11	ENCODER, ROTARY (VOLUME)					
R642	1-249-407-11	CARBON	150	5%	1/4W	F	S653	1-467-968-11	ENCODER, ROTARY (MULTI JOG STATION)					
R643	1-249-409-11	CARBON	220	5%	1/4W	F	*****							
R644	1-249-411-11	CARBON	330	5%	1/4W		A-4419-955-A	MAIN BOARD, COMPLETE (EA,HK,MY,SP)						
R645	1-249-411-11	CARBON	330	5%	1/4W		*****							
							A-4426-816-A	MAIN BOARD, COMPLETE (TH)						
R646	1-249-413-11	CARBON	470	5%	1/4W	F	*****							
R647	1-249-415-11	CARBON	680	5%	1/4W	F								
R648	1-249-417-11	CARBON	1K	5%	1/4W	F								
R649	1-249-419-11	CARBON	1.5K	5%	1/4W	F	7-685-872-09	SCREW +BVTT	3X8	(S)				
R650	1-249-421-11	CARBON	2.2K	5%	1/4W	F	< CAPACITOR >							
R651	1-247-843-11	CARBON	3.3K	5%	1/4W		C103	1-126-963-11	ELECT	4.7uF	20%	50V		
R652	1-249-417-11	CARBON	1K	5%	1/4W	F	C105	1-164-159-11	CERAMIC	0.1uF		50V		
R653	1-247-807-31	CARBON	100	5%	1/4W		C108	1-126-160-11	ELECT	1uF	20%	50V		
R654	1-249-407-11	CARBON	150	5%	1/4W	F	C111	1-136-171-00	FILM	0.33uF	5%	50V		
R655	1-249-409-11	CARBON	220	5%	1/4W	F	C112	1-136-161-00	FILM	0.047uF	5%	50V		
R656	1-249-411-11	CARBON	330	5%	1/4W		C113	1-164-159-11	CERAMIC	0.1uF		50V		
R657	1-249-411-11	CARBON	330	5%	1/4W		C114	1-130-480-00	MYLAR	0.0056uF	5%	50V		
R658	1-249-413-11	CARBON	470	5%	1/4W	F	C115	1-136-159-00	FILM	0.033uF	5%	50V		
R659	1-249-415-11	CARBON	680	5%	1/4W	F	C116	1-162-301-11	CERAMIC	0.0015uF	20%	16V		
R660	1-249-429-11	CARBON	10K	5%	1/4W		C117	1-162-306-11	CERAMIC	0.01uF	30%	16V		

MAIN

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
C118	1-162-290-31	CERAMIC	470PF	10%	50V	C318	1-126-961-11	ELECT	2.2uF	20%	50V
C119	1-162-600-11	CERAMIC	0.0047uF	30%	16V	C319	1-104-664-11	ELECT	47uF	20%	25V
C121	1-126-964-11	ELECT	10uF	20%	50V	C320	1-136-173-00	FILM	0.47uF	5%	50V
C122	1-162-291-31	CERAMIC	560PF	10%	50V	C321	1-161-494-00	CERAMIC	0.022uF	25V	
C123	1-136-165-00	FILM	0.1uF	5%	50V	C322	1-136-161-00	FILM	0.047uF	5%	50V
C124	1-136-165-00	FILM	0.1uF	5%	50V	C323	1-162-292-31	CERAMIC	680PF	10%	50V
C125	1-164-159-11	CERAMIC	0.1uF		50V	C324	1-126-934-11	ELECT	220uF	20%	10V
C126	1-126-964-11	ELECT	10uF	20%	50V	C325	1-136-164-00	FILM	0.082uF	5%	50V
C127	1-104-665-11	ELECT	100uF	20%	10V	C326	1-162-303-11	CERAMIC	0.0033uF	30%	16V
C128	1-164-159-11	CERAMIC	0.1uF		50V	C327	1-136-164-00	FILM	0.082uF	5%	50V
C129	1-126-964-11	ELECT	10uF	20%	50V	C328	1-126-959-11	ELECT	0.47uF	20%	50V
C131	1-126-961-11	ELECT	2.2uF	20%	50V	C329	1-124-252-00	ELECT	0.33uF	20%	50V
C134	1-104-664-11	ELECT	47uF	20%	25V	C330	1-126-961-11	ELECT	2.2uF	20%	50V
C135	1-126-959-11	ELECT	0.47uF	20%	50V	C331	1-136-165-00	FILM	0.1uF	5%	50V
C153	1-126-963-11	ELECT	4.7uF	20%	50V	C332	1-126-964-11	ELECT	10uF	20%	50V
C161	1-136-171-00	FILM	0.33uF	5%	50V	C333	1-126-961-11	ELECT	2.2uF	20%	50V
C162	1-136-161-00	FILM	0.047uF	5%	50V	C334	1-126-964-11	ELECT	10uF	20%	50V
C163	1-164-159-11	CERAMIC	0.1uF		50V	C335	1-136-165-00	FILM	0.1uF	5%	50V
C164	1-130-480-00	MYLAR	0.0056uF	5%	50V	C336	1-126-934-11	ELECT	220uF	20%	10V
C165	1-136-159-00	FILM	0.033uF	5%	50V	C337	1-126-964-11	ELECT	10uF	20%	50V
C166	1-162-301-11	CERAMIC	0.0015uF	20%	16V	C338	1-126-964-11	ELECT	10uF	20%	50V
C167	1-162-306-11	CERAMIC	0.01uF	30%	16V	C339	1-126-961-11	ELECT	2.2uF	20%	50V
C168	1-162-290-31	CERAMIC	470PF	10%	50V	C340	1-126-934-11	ELECT	220uF	20%	10V
C169	1-162-600-11	CERAMIC	0.0047uF	30%	16V	C341	1-126-961-11	ELECT	2.2uF	20%	50V
C171	1-126-964-11	ELECT	10uF	20%	50V	C342	1-126-934-11	ELECT	220uF	20%	10V
C172	1-162-291-31	CERAMIC	560PF	10%	50V	C343	1-126-934-11	ELECT	220uF	20%	10V
C173	1-136-165-00	FILM	0.1uF	5%	50V	C344	1-126-964-11	ELECT	10uF	20%	50V
C174	1-136-165-00	FILM	0.1uF	5%	50V	C345	1-126-964-11	ELECT	10uF	20%	50V
C175	1-136-495-11	FILM	0.068uF	5%	50V	C346	1-126-964-11	ELECT	10uF	20%	50V
C176	1-162-306-11	CERAMIC	0.01uF	30%	16V	C347	1-126-964-11	ELECT	10uF	20%	50V
C177	1-104-665-11	ELECT	100uF	20%	10V	C348	1-136-165-00	FILM	0.1uF	5%	50V
C178	1-164-159-11	CERAMIC	0.1uF		50V	C349	1-136-165-00	FILM	0.1uF	5%	50V
C181	1-126-961-11	ELECT	2.2uF	20%	50V	C350	1-164-159-11	CERAMIC	0.1uF		50V
C183	1-126-960-11	ELECT	1uF	20%	50V	C351	1-164-159-11	CERAMIC	0.1uF		50V
C184	1-162-303-11	CERAMIC	0.0033uF	30%	16V	C352	1-164-159-11	CERAMIC	0.1uF		50V
C186	1-162-292-31	CERAMIC	680PF	10%	50V	C353	1-126-960-11	ELECT	1uF	20%	50V
C187	1-126-961-11	ELECT	2.2uF	20%	50V	C354	1-126-960-11	ELECT	1uF	20%	50V
C188	1-126-960-11	ELECT	1uF	20%	50V	C355	1-162-210-31	CERAMIC	30PF	5%	50V
C301	1-126-959-11	ELECT	0.47uF	20%	50V	C356	1-162-210-31	CERAMIC	30PF	5%	50V
C302	1-126-963-11	ELECT	4.7uF	20%	50V	C357	1-164-159-11	CERAMIC	0.1uF		50V
C303	1-126-959-11	ELECT	0.47uF	20%	50V	C361	1-162-282-31	CERAMIC	100PF	10%	50V
C304	1-126-963-11	ELECT	4.7uF	20%	50V	C362	1-126-961-11	ELECT	2.2uF	20%	50V
C305	1-136-167-00	FILM	0.15uF	5%	50V	C363	1-104-664-11	ELECT	47uF	20%	25V
C306	1-126-962-11	ELECT	3.3uF	20%	50V	C364	1-164-159-11	CERAMIC	0.1uF		50V
C307	1-136-167-00	FILM	0.15uF	5%	50V	C371	1-162-282-31	CERAMIC	100PF	10%	50V
C308	1-136-167-00	FILM	0.15uF	5%	50V	C372	1-126-961-11	ELECT	2.2uF	20%	50V
C309	1-126-962-11	ELECT	3.3uF	20%	50V	C373	1-104-664-11	ELECT	47uF	20%	25V
C310	1-136-167-00	FILM	0.15uF	5%	50V	C374	1-164-159-11	CERAMIC	0.1uF		50V
C311	1-126-963-11	ELECT	4.7uF	20%	50V	C731	1-104-664-11	ELECT	47uF	20%	25V
C312	1-126-959-11	ELECT	0.47uF	20%	50V	C732	1-126-964-11	ELECT	10uF	20%	50V
C313	1-126-963-11	ELECT	4.7uF	20%	50V	C801	1-136-165-00	FILM	0.1uF	5%	50V
C314	1-126-959-11	ELECT	0.47uF	20%	50V	C802	1-136-165-00	FILM	0.1uF	5%	50V
C315	1-136-165-00	FILM	0.1uF	5%	50V	C803	1-128-493-11	ELECT	4700uF	20%	71V
C316	1-136-165-00	FILM	0.1uF	5%	50V	C804	1-128-493-11	ELECT	4700uF	20%	71V
C317	1-126-961-11	ELECT	2.2uF	20%	50V	C805	1-126-948-11	ELECT	100uF	20%	35V

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C806	1-126-964-11	ELECT	10uF 20% 50V	D853	8-719-911-19	DIODE 1SS119-25	
C807	1-136-165-00	FILM	0.1uF 5% 50V			< TERMINAL >	
C808	1-136-165-00	FILM	0.1uF 5% 50V				
C809	1-126-943-11	ELECT	2200uF 20% 25V	* E801	1-537-738-21	TERMINAL, EARTH	
C810	1-126-943-11	ELECT	2200uF 20% 25V			< IC >	
C815	1-126-940-11	ELECT	330uF 20% 25V	IC111	8-759-495-24	IC M62442FP-TP	
C816	1-126-952-11	ELECT	1000uF 20% 35V	IC112	8-759-000-48	IC MC14052BCP	
C818	1-126-959-11	ELECT	0.47uF 20% 50V	IC113	8-759-634-51	IC M5218AP	
C819	1-104-664-11	ELECT	47uF 20% 25V	IC300	8-759-526-39	IC LV1041M	
C820	1-126-959-11	ELECT	0.47uF 20% 50V	IC361	8-759-634-51	IC M5218AP	
C821	1-104-664-11	ELECT	47uF 20% 25V	IC801	8-759-604-86	IC M5F7807L	
C822	1-126-940-11	ELECT	330uF 20% 25V	IC802	8-759-604-90	IC M5F7907L	
C823	1-126-960-11	ELECT	1uF 20% 50V	IC803	8-759-231-53	IC TA7805L	
C824	1-104-665-11	ELECT	100uF 20% 10V	IC804	8-759-604-32	IC M5F7810L	
C825	1-126-959-11	ELECT	0.47uF 20% 50V	IC851	8-759-111-68	IC uPC1237HA	
C826	1-104-664-11	ELECT	47uF 20% 25V			< JACK >	
C851	1-126-964-11	ELECT	10uF 20% 50V	J101	1-770-613-11	JACK, PIN 4P (MD/VIDEO 1)	
C852	1-104-665-11	ELECT	100uF 20% 10V			< COIL >	
C853	1-164-159-11	CERAMIC	0.1uF 50V	L131	1-410-521-11	INDUCTOR 100uH	
C854	1-126-961-11	ELECT	2.2uF 20% 50V			< TRANSISTOR >	
C855	1-126-934-11	ELECT	220uF 20% 10V	Q121	8-729-422-57	TRANSISTOR UN4111	
C856	1-104-665-11	ELECT	100uF 20% 10V	Q132	8-729-620-05	TRANSISTOR 2SC2603TP-EF	
< CONNECTOR >				Q182	8-729-620-05	TRANSISTOR 2SC2603TP-EF	
* CN101	1-764-017-21	HOUSING,CONNECTOR(PC BOARD)17P		Q183	8-729-141-30	TRANSISTOR 2SC3623A-LK	
CN103	1-774-289-11	PIN, CONNECTOR (PC BOARD) 15P		Q361	8-729-141-30	TRANSISTOR 2SC3623A-LK	
* CN131	1-564-507-11	PLUG, CONNECTOR 4P		Q371	8-729-141-30	TRANSISTOR 2SC3623A-LK	
CN301	1-691-765-21	PLUG (MICRO CONNECTOR) 3P		Q731	8-729-140-04	TRANSISTOR 2SB1116A-L	
CN701	1-778-311-11	SOCKET, CONNECTOR(PC BOARD)30P		Q732	8-729-620-05	TRANSISTOR 2SC2603TP-EF	
* CN731	1-569-496-11	SOCKET, CONNECTOR 10P		Q741	8-729-195-82	TRANSISTOR 2SC2958-L	
CN801	1-691-773-11	PLUG (MICRO CONNECTOR) 11P		Q801	8-729-141-83	TRANSISTOR 2SB1094-LK	
< DIODE >				Q851	8-729-900-63	TRANSISTOR DTC124ES	
D101	8-719-911-19	DIODE 1SS119-25		Q852	8-729-900-36	TRANSISTOR DTC124ES	
D102	8-719-911-19	DIODE 1SS119-25		Q853	8-729-900-36	TRANSISTOR DTC124ES	
D131	8-719-911-19	DIODE 1SS119-25		Q854	8-729-900-63	TRANSISTOR DTC124ES	
D742	8-719-024-99	DIODE 11ES2-NTA2B		Q855	8-729-195-82	TRANSISTOR 2SC2958-TL	
D743	8-719-911-19	DIODE 1SS119-25		< RESISTOR >			
D746	8-719-911-19	DIODE 1SS119-25		R103	1-249-417-11	CARBON 1K 5% 1/4W F	
D751	8-719-911-19	DIODE 1SS119-25		R104	1-249-441-11	CARBON 100K 5% 1/4W	
D752	8-719-911-19	DIODE 1SS119-25		R105	1-249-441-11	CARBON 100K 5% 1/4W	
D761	8-719-911-19	DIODE 1SS119-25		R106	1-249-417-11	CARBON 1K 5% 1/4W F	
D781	8-719-024-99	DIODE 11ES2-NTA2B		R108	1-249-417-11	CARBON 1K 5% 1/4W F	
D801	8-719-302-38	DIODE RBV-602-01		R109	1-249-441-11	CARBON 100K 5% 1/4W	
D802	8-719-911-19	DIODE 1SS119-25		R113	1-247-897-11	CARBON 560K 5% 1/4W	
D803	8-719-911-19	DIODE 1SS119-25		R114	1-247-897-11	CARBON 560K 5% 1/4W	
D804	8-719-934-22	DIODE HZS30-2LTA		R115	1-249-433-11	CARBON 22K 5% 1/4W	
D805	8-719-024-99	DIODE 11ES2-NTA2B		R116	1-249-422-11	CARBON 2.7K 5% 1/4W F	
D806	8-719-024-99	DIODE 11ES2-NTA2B		R117	1-247-895-00	CARBON 470K 5% 1/4W	
D807	8-719-024-99	DIODE 11ES2-NTA2B		R119	1-249-441-11	CARBON 100K 5% 1/4W	
D808	8-719-024-99	DIODE 11ES2-NTA2B		R120	1-249-441-11	CARBON 100K 5% 1/4W	
D810	8-719-024-99	DIODE 11ES2-NTA2B		R121	1-249-417-11	CARBON 1K 5% 1/4W F	
D811	8-719-024-99	DIODE 11ES2-NTA2B		R122	1-249-417-11	CARBON 1K 5% 1/4W F	
D812	8-719-911-19	DIODE 1SS119-25					
D813	8-719-024-99	DIODE 11ES2-NTA2B					
D821	8-719-024-99	DIODE 11ES2-NTA2B					
D851	8-719-911-19	DIODE 1SS119-25					
D852	8-719-911-19	DIODE 1SS119-25					

MAIN

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R123	1-249-421-11	CARBON	2.2K	5%	1/4W F	R375	1-249-437-11	CARBON	47K	5%	1/4W
R132	1-249-421-11	CARBON	2.2K	5%	1/4W F	R376	1-249-421-11	CARBON	2.2K	5%	1/4W F
R134	1-249-435-11	CARBON	33K	5%	1/4W	R377	1-249-425-11	CARBON	4.7K	5%	1/4W F
R135	1-249-439-11	CARBON	68K	5%	1/4W	R701	1-247-807-31	CARBON	100	5%	1/4W
R136	1-247-883-00	CARBON	150K	5%	1/4W	R702	1-247-807-31	CARBON	100	5%	1/4W
R138	1-249-437-11	CARBON	47K	5%	1/4W	R705	1-247-807-31	CARBON	100	5%	1/4W
R139	1-247-903-00	CARBON	1M	5%	1/4W	R706	1-247-807-31	CARBON	100	5%	1/4W
R140	1-249-441-11	CARBON	100K	5%	1/4W	R707	1-247-807-31	CARBON	100	5%	1/4W
R141	1-249-418-11	CARBON	1.2K	5%	1/4W F	R708	1-247-807-31	CARBON	100	5%	1/4W
R142	1-249-437-11	CARBON	47K	5%	1/4W	R709	1-247-807-31	CARBON	100	5%	1/4W
R145	1-247-887-00	CARBON	220K	5%	1/4W	R710	1-247-807-31	CARBON	100	5%	1/4W
R153	1-249-417-11	CARBON	1K	5%	1/4W F	R711	1-247-807-31	CARBON	100	5%	1/4W
R154	1-249-441-11	CARBON	100K	5%	1/4W	R712	1-247-807-31	CARBON	100	5%	1/4W
R155	1-249-441-11	CARBON	100K	5%	1/4W	R713	1-247-807-31	CARBON	100	5%	1/4W
R156	1-249-417-11	CARBON	1K	5%	1/4W F	R714	1-247-807-31	CARBON	100	5%	1/4W
R158	1-249-417-11	CARBON	1K	5%	1/4W F	R715	1-247-807-31	CARBON	100	5%	1/4W
R159	1-249-441-11	CARBON	100K	5%	1/4W	R716	1-247-807-31	CARBON	100	5%	1/4W
R163	1-247-897-11	CARBON	560K	5%	1/4W	R717	1-247-807-31	CARBON	100	5%	1/4W
R164	1-247-897-11	CARBON	560K	5%	1/4W	R718	1-247-807-31	CARBON	100	5%	1/4W
R165	1-249-433-11	CARBON	22K	5%	1/4W	R731	1-249-429-11	CARBON	10K	5%	1/4W
R166	1-249-422-11	CARBON	2.7K	5%	1/4W F	R732	1-249-429-11	CARBON	10K	5%	1/4W
R167	1-247-895-00	CARBON	470K	5%	1/4W	R733	1-249-425-11	CARBON	4.7K	5%	1/4W F
R172	1-249-429-11	CARBON	10K	5%	1/4W	R742	1-249-439-11	CARBON	68K	5%	1/4W
R173	1-249-421-11	CARBON	2.2K	5%	1/4W F	R743	1-249-425-11	CARBON	4.7K	5%	1/4W F
R182	1-249-421-11	CARBON	2.2K	5%	1/4W F	R744	1-249-437-11	CARBON	47K	5%	1/4W
R184	1-249-435-11	CARBON	33K	5%	1/4W	R745	1-215-893-11	METAL OXIDE	1.5K	5%	2W F
R185	1-249-439-11	CARBON	68K	5%	1/4W	R746	1-249-432-11	CARBON	18K	5%	1/4W
R186	1-247-883-00	CARBON	150K	5%	1/4W	R747	1-249-437-11	CARBON	47K	5%	1/4W
R188	1-249-437-11	CARBON	47K	5%	1/4W	R751	1-249-432-11	CARBON	18K	5%	1/4W
R189	1-249-429-11	CARBON	10K	5%	1/4W	R752	1-249-439-11	CARBON	68K	5%	1/4W
R190	1-247-895-00	CARBON	470K	5%	1/4W	R757	1-249-435-11	CARBON	33K	5%	1/4W
R191	1-249-417-11	CARBON	1K	5%	1/4W F	△ R758	1-215-893-11	METAL OXIDE	1.5K	5%	2W F
R192	1-249-437-11	CARBON	47K	5%	1/4W	R761	1-249-432-11	CARBON	18K	5%	1/4W
R193	1-249-441-11	CARBON	100K	5%	1/4W	R762	1-249-437-11	CARBON	47K	5%	1/4W
R194	1-249-417-11	CARBON	1K	5%	1/4W F	R767	1-249-435-11	CARBON	33K	5%	1/4W
R195	1-249-417-11	CARBON	1K	5%	1/4W F	R781	1-260-101-11	CARBON	1.5K	5%	1/2W
R196	1-249-429-11	CARBON	10K	5%	1/4W	R782	1-260-101-11	CARBON	1.5K	5%	1/2W
R304	1-249-436-11	CARBON	39K	5%	1/4W	R783	1-260-101-11	CARBON	1.5K	5%	1/2W
R305	1-249-433-11	CARBON	22K	5%	1/4W	R784	1-260-101-11	CARBON	1.5K	5%	1/2W
R306	1-249-433-11	CARBON	22K	5%	1/4W	R801	1-249-431-11	CARBON	15K	5%	1/4W
R307	1-249-433-11	CARBON	22K	5%	1/4W	R802	1-249-431-11	CARBON	15K	5%	1/4W
R308	1-249-433-11	CARBON	22K	5%	1/4W	R803	1-249-429-11	CARBON	10K	5%	1/4W
R310	1-247-903-00	CARBON	1M	5%	1/4W	△ R804	1-212-982-00	FUSIBLE	100	5%	1/2W F
R340	1-247-843-11	CARBON	3.3K	5%	1/4W	R851	1-249-431-11	CARBON	15K	5%	1/4W
R361	1-249-417-11	CARBON	1K	5%	1/4W F	R852	1-249-435-11	CARBON	33K	5%	1/4W
R362	1-249-441-11	CARBON	100K	5%	1/4W	R853	1-249-429-11	CARBON	10K	5%	1/4W
R363	1-249-429-11	CARBON	10K	5%	1/4W	R854	1-249-397-11	CARBON	22	5%	1/4W F
R364	1-249-429-11	CARBON	10K	5%	1/4W	R855	1-249-441-11	CARBON	100K	5%	1/4W
R365	1-249-437-11	CARBON	47K	5%	1/4W	R856	1-249-429-11	CARBON	10K	5%	1/4W
R366	1-249-421-11	CARBON	2.2K	5%	1/4W F	R857	1-249-433-11	CARBON	22K	5%	1/4W
R367	1-249-425-11	CARBON	4.7K	5%	1/4W F	< RELAY >					
R371	1-249-417-11	CARBON	1K	5%	1/4W F	RY741	1-515-920-11	RELAY (24V)			
R372	1-249-441-11	CARBON	100K	5%	1/4W	RY751	1-755-168-11	RELAY			
R373	1-249-429-11	CARBON	10K	5%	1/4W	< TERMINAL >					
R374	1-249-429-11	CARBON	10K	5%	1/4W	TB751	1-537-240-31	TERMINAL BOARD (FRONT SPEAKER)			

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

Ref. No.	Part No.	Description	Remarks
< VIBRATOR >			
X301	1-579-952-21	VIBRATOR, CERAMIC 8MHz	

*	A-4414-708-A	MIC/ECHO BOARD, COMPLETE (EA,HK,MY,SP)	

*	A-4414-691-A	MIC/ECHO BOARD, COMPLETE (TH)	

< CAPACITOR >			
C6001	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C6002	1-124-257-00	ELECT 2.2uF 20% 50V	
C6003	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C6004	1-124-257-00	ELECT 2.2uF 20% 50V	
C6005	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C6006	1-162-215-31	CERAMIC 47PF 5% 50V	
C6007	1-162-290-31	CERAMIC 470PF 10% 50V	
C6008	1-126-157-11	ELECT 10uF 20% 16V	
C6009	1-124-465-00	ELECT 0.47uF 20% 50V	
C6010	1-162-215-31	CERAMIC 47PF 5% 50V	
C6011	1-162-282-31	CERAMIC 100PF 10% 50V	
C6012	1-126-157-11	ELECT 10uF 20% 16V	
C6014	1-124-257-00	ELECT 2.2uF 20% 50V	
C6015	1-126-160-11	ELECT 1uF 20% 50V	
C6016	1-104-664-11	ELECT 47uF 20% 16V	
C6017	1-164-159-11	CERAMIC 0.1uF 50V	
C6018	1-104-664-11	ELECT 47uF 20% 16V	
C6019	1-136-495-11	FILM 0.068uF 5% 50V	
C6020	1-162-305-11	CERAMIC 0.0068uF 20% 16V	
C6021	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C6022	1-126-160-11	ELECT 1uF 20% 50V	
C6023	1-161-494-00	CERAMIC 0.022uF 25V	
C6024	1-136-167-00	FILM 0.15uF 5% 50V	
C6025	1-126-957-11	ELECT 0.22uF 20% 50V	
C6026	1-126-957-11	ELECT 0.22uF 20% 50V	
C6027	1-136-495-11	FILM 0.068uF 5% 50V	
C6028	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C6029	1-162-305-11	CERAMIC 0.0068uF 20% 16V	
C6031	1-162-306-11	CERAMIC 0.01uF 30% 16V	
< CONNECTOR >			
CN6001	1-506-469-11	PIN, CONNECTOR 4P	
< DIODE >			
D6001	8-719-911-19	DIODE 1SS119-25	
D6002	8-719-911-19	DIODE 1SS119-25	
D6003	8-719-911-19	DIODE 1SS119-25	
< TERMINAL >			
* E6001	1-537-738-21	TERMINAL, EARTH	
< IC >			
IC6001	8-759-634-51	IC M5218AP	
IC6002	8-759-450-96	IC M65850P	

Ref. No.	Part No.	Description	Remarks
< JACK >			
J6001	1-770-226-11	JACK (LARGE TYPE)(MIX MIC 1)	
J6002	1-750-733-11	JACK (LARGE TYPE)(MIX MIC 2)	
< COIL >			
L6011	1-410-521-11	INDUCTOR 100uH	
< RESISTOR >			
R6001	1-249-429-11	CARBON 10K 5% 1/4W	
R6002	1-249-417-11	CARBON 1K 5% 1/4W F	
R6003	1-249-429-11	CARBON 10K 5% 1/4W	
R6004	1-249-417-11	CARBON 1K 5% 1/4W F	
R6005	1-249-441-11	CARBON 100K 5% 1/4W	
R6006	1-249-417-11	CARBON 1K 5% 1/4W F	
R6007	1-249-433-11	CARBON 22K 5% 1/4W	
R6008	1-249-429-11	CARBON 10K 5% 1/4W	
R6009	1-247-885-00	CARBON 180K 5% 1/4W	
R6010	1-247-807-31	CARBON 100 5% 1/4W	
R6011	1-249-433-11	CARBON 22K 5% 1/4W	
R6012	1-247-881-00	CARBON 120K 5% 1/4W	
R6013	1-249-433-11	CARBON 22K 5% 1/4W	
R6014	1-249-433-11	CARBON 22K 5% 1/4W	
R6015	1-249-433-11	CARBON 22K 5% 1/4W	
R6016	1-249-429-11	CARBON 10K 5% 1/4W	
R6017	1-249-437-11	CARBON 47K 5% 1/4W	
R6018	1-249-433-11	CARBON 22K 5% 1/4W	
R6019	1-249-433-11	CARBON 22K 5% 1/4W	
R6020	1-249-431-11	CARBON 15K 5% 1/4W	
< VARIABLE RESISTOR >			
RV6001	1-225-511-21	RES, VAR, CARBON 50K/50K	
(MIC LEVEL/ECHO VOL)			

*	1-669-965-11	MOTOR BOARD	

< CAPACITOR >			
C891	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C892	1-124-478-11	ELECT 100uF 20% 25V	
C893	1-164-159-11	CERAMIC 0.1uF 50V	
< CONNECTOR >			
* CN892	1-568-941-11	PIN, CONNECTOR 3P	
< DIODE >			
D891	8-719-947-16	DIODE MTZJ-T-72-5.1A	
< IC >			
IC891	8-759-822-09	IC LB1641	
< RESISTOR >			
R891	1-249-425-11	CARBON 4.7K 5% 1/4W F	
R892	1-249-425-11	CARBON 4.7K 5% 1/4W F	
R893	1-249-429-11	CARBON 10K 5% 1/4W	
R894	1-249-413-11	CARBON 470 5% 1/4W F	

PANEL

Ref. No.	Part No.	Description	Remarks			
*	A-4426-835-A	PANEL BOARD, COMPLETE (EA) *****				
*	A-4417-076-A	PANEL BOARD, COMPLETE (HK,MY,SP) *****				
*	A-4417-069-A	PANEL BOARD, COMPLETE (TH) *****				
*	4-900-849-01	HOLDER (FL)				
*	4-932-810-11	CUSHION (FL)				
< CAPACITOR >						
C501	1-162-205-31	CERAMIC	18PF	5%	50V	
C502	1-162-205-31	CERAMIC	18PF	5%	50V	
C503	1-104-905-11	CAPACITOR	0.22F		5.5V	
C505	1-164-159-11	CERAMIC	0.1uF		50V	
C506	1-164-159-11	CERAMIC	0.1uF		50V	
C507	1-164-159-11	CERAMIC	0.1uF		50V	
C508	1-164-159-11	CERAMIC	0.1uF		50V	
C509	1-124-589-11	ELECT	47uF	20%	16V	
C510	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C517	1-162-303-11	CERAMIC	0.0033uF	30%	16V	
C518	1-126-157-11	ELECT	10uF	20%	16V	
C519	1-126-157-11	ELECT	10uF	20%	16V	
C520	1-126-157-11	ELECT	10uF	20%	16V	
C521	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C522	1-126-157-11	ELECT	10uF	20%	16V	
C523	1-126-157-11	ELECT	10uF	20%	16V	
C601	1-126-157-11	ELECT	10uF	20%	16V	
C602	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C603	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C604	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C605	1-124-261-00	ELECT	10uF	20%	50V	
C606	1-124-261-00	ELECT	10uF	20%	50V	
C607	1-124-261-00	ELECT	10uF	20%	50V	
C608	1-124-589-11	ELECT	47uF	20%	16V	
C609	1-162-282-31	CERAMIC	100PF	10%	50V	
C610	1-162-288-31	CERAMIC	330PF	10%	50V	
C611	1-162-288-31	CERAMIC	330PF	10%	50V	
C612	1-162-288-31	CERAMIC	330PF	10%	50V	
C613	1-162-288-31	CERAMIC	330PF	10%	50V	
C614	1-162-288-31	CERAMIC	330PF	10%	50V	
C615	1-162-288-31	CERAMIC	330PF	10%	50V	
C616	1-162-288-31	CERAMIC	330PF	10%	50V	
C617	1-162-288-31	CERAMIC	330PF	10%	50V	
C618	1-162-288-31	CERAMIC	330PF	10%	50V	
C619	1-162-288-31	CERAMIC	330PF	10%	50V	
C620	1-162-288-31	CERAMIC	330PF	10%	50V	
C621	1-162-288-31	CERAMIC	330PF	10%	50V	
C622	1-162-288-31	CERAMIC	330PF	10%	50V	
C623	1-162-288-31	CERAMIC	330PF	10%	50V	
C624	1-162-288-31	CERAMIC	330PF	10%	50V	
C625	1-162-288-31	CERAMIC	330PF	10%	50V	
< CONNECTOR >						
* CN501	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P				
CN502	1-778-312-11	PLUG, CONNECTOR (PC BOARD) 30P				
CN503	1-691-650-11	SOCKET, CONNECTOR 19P				
* CN504	1-565-835-11	SOCKET, CONNECTOR 3P				

Ref. No.	Part No.	Description	Remarks			
< DIODE >						
D501	8-719-024-99	DIODE	11ES2-NTA2B			
D502	8-719-911-19	DIODE	1SS119-25			
D504	8-719-911-19	DIODE	1SS119-25			
D505	8-719-911-19	DIODE	1SS119-25			
D506	8-719-911-19	DIODE	1SS119-25			
D507	8-719-911-19	DIODE	1SS119-25			
D509	8-719-024-99	DIODE	11ES2-NTA2B			
D511	8-719-118-62	DIODE	RD5.6F-T7B1			
D512	8-719-046-80	DIODE	SML19416W-TP4 (MOVIE)			
D513	8-719-046-80	DIODE	SML19416W-TP4 (MOVIE)			
D514	8-719-046-80	DIODE	SML19416W-TP4 (MUSIC)			
D515	8-719-046-80	DIODE	SML19416W-TP4 (MUSIC)			
D516	8-719-046-80	DIODE	SML19416W-TP4 (GAME)			
D517	8-719-046-80	DIODE	SML19416W-TP4 (GAME)			
D518	8-719-046-80	DIODE	SML19416W-TP4 (PLACE)			
D519	8-719-046-80	DIODE	SML19416W-TP4 (PLACE)			
D520	8-719-046-80	DIODE	SML19416W-TP4 (P FILE)			
D521	8-719-046-80	DIODE	SML19416W-TP4 (P FILE)			
D522	8-719-046-44	DIODE	SEL5221S-TP15 (AUTO)			
< FILTER >						
FL601	1-517-775-11	INDICATOR TUBE, FLUORESCENT				
< IC >						
IC501	8-759-595-12	IC	uPD780016AYGF-025-3BA			
IC502	8-759-165-82	IC	PST600E-T			
IC503	8-749-011-22	IC	GP1U27X			
IC505	8-759-140-53	IC	UPD4053BC			
IC506	8-759-495-25	IC	BA3833F-E2			
IC601	8-759-261-63	IC	M66004M6FP			
< COIL >						
L501	1-408-074-00	INDUCTOR	56uH			
L502	1-410-521-11	INDUCTOR	100uH			
< TRANSISTOR >						
Q501	8-729-119-78	TRANSISTOR	2SC2785-HFE			
Q502	8-729-422-57	TRANSISTOR	UN411			
Q503	8-729-422-57	TRANSISTOR	UN411			
Q504	8-729-422-57	TRANSISTOR	UN411			
Q505	8-729-422-57	TRANSISTOR	UN411			
Q506	8-729-422-57	TRANSISTOR	UN411			
Q507	8-729-422-57	TRANSISTOR	UN411			
Q508	8-729-422-57	TRANSISTOR	UN411			
Q509	8-729-422-57	TRANSISTOR	UN411			
Q510	8-729-422-57	TRANSISTOR	UN411			
Q511	8-729-422-57	TRANSISTOR	UN411			
Q512	8-729-900-80	TRANSISTOR	DTC114ES			
Q513	8-729-900-80	TRANSISTOR	DTC114ES			
< RESISTOR >						
R500	1-249-429-11	CARBON	10K	5%	1/4W	
R501	1-247-891-00	CARBON	330K	5%	1/4W	
R502	1-249-433-11	CARBON	22K	5%	1/4W	
R503	1-249-437-11	CARBON	47K	5%	1/4W	
R504	1-249-437-11	CARBON	47K	5%	1/4W	

Ref. No.	Part No.	Description				Remarks	Ref. No.	Part No.	Description				Remarks
R505	1-249-429-11	CARBON	10K	5%	1/4W		R566	1-247-807-31	CARBON	100	5%	1/4W	
R506	1-249-429-11	CARBON	10K	5%	1/4W		R567	1-247-807-31	CARBON	100	5%	1/4W	
R507	1-249-441-11	CARBON	100K	5%	1/4W		R568	1-247-807-31	CARBON	100	5%	1/4W	
R511	1-249-429-11	CARBON	10K	5%	1/4W		R569	1-249-407-11	CARBON	150	5%	1/4W	F
R512	1-249-429-11	CARBON	10K	5%	1/4W	(TH)	R570	1-249-409-11	CARBON	220	5%	1/4W	F
							R571	1-249-411-11	CARBON	330	5%	1/4W	
R514	1-249-429-11	CARBON	10K	5%	1/4W	(EA)	R572	1-249-411-11	CARBON	330	5%	1/4W	
R516	1-249-427-11	CARBON	6.8K	5%	1/4W	F	R573	1-249-413-11	CARBON	470	5%	1/4W	F
R517	1-249-427-11	CARBON	6.8K	5%	1/4W	F	R574	1-249-415-11	CARBON	680	5%	1/4W	F
R518	1-247-807-31	CARBON	100	5%	1/4W		R575	1-249-417-11	CARBON	1K	5%	1/4W	F
R519	1-247-807-31	CARBON	100	5%	1/4W		R576	1-249-419-11	CARBON	1.5K	5%	1/4W	F
							R577	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R520	1-247-807-31	CARBON	100	5%	1/4W		R578	1-247-843-11	CARBON	3.3K	5%	1/4W	
R521	1-247-807-31	CARBON	100	5%	1/4W		R579	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R522	1-247-807-31	CARBON	100	5%	1/4W		R580	1-249-429-11	CARBON	10K	5%	1/4W	
R523	1-247-807-31	CARBON	100	5%	1/4W								
R524	1-247-807-31	CARBON	100	5%	1/4W		R581	1-249-433-11	CARBON	22K	5%	1/4W	
							R582	1-249-439-11	CARBON	68K	5%	1/4W	
R525	1-247-807-31	CARBON	100	5%	1/4W		R583	1-247-807-31	CARBON	100	5%	1/4W	
R526	1-247-807-31	CARBON	100	5%	1/4W		R584	1-249-407-11	CARBON	150	5%	1/4W	F
R527	1-247-807-31	CARBON	100	5%	1/4W		R585	1-249-409-11	CARBON	220	5%	1/4W	F
R528	1-247-807-31	CARBON	100	5%	1/4W								
R529	1-247-807-31	CARBON	100	5%	1/4W		R586	1-249-411-11	CARBON	330	5%	1/4W	
							R587	1-249-411-11	CARBON	330	5%	1/4W	
R530	1-247-807-31	CARBON	100	5%	1/4W		R588	1-249-413-11	CARBON	470	5%	1/4W	F
R531	1-247-807-31	CARBON	100	5%	1/4W		R589	1-249-415-11	CARBON	680	5%	1/4W	F
R532	1-247-807-31	CARBON	100	5%	1/4W		R590	1-249-417-11	CARBON	1K	5%	1/4W	F
R533	1-247-807-31	CARBON	100	5%	1/4W								
R534	1-247-807-31	CARBON	100	5%	1/4W		R591	1-249-419-11	CARBON	1.5K	5%	1/4W	F
							R592	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R535	1-247-807-31	CARBON	100	5%	1/4W		R593	1-247-843-11	CARBON	3.3K	5%	1/4W	
R536	1-247-807-31	CARBON	100	5%	1/4W		R594	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R537	1-247-807-31	CARBON	100	5%	1/4W		R595	1-249-429-11	CARBON	10K	5%	1/4W	
R538	1-247-807-31	CARBON	100	5%	1/4W								
R539	1-247-807-31	CARBON	100	5%	1/4W		R596	1-249-433-11	CARBON	22K	5%	1/4W	
							R597	1-249-403-11	CARBON	68	5%	1/4W	F
R540	1-247-807-31	CARBON	100	5%	1/4W		R598	1-249-403-11	CARBON	68	5%	1/4W	F
R541	1-247-807-31	CARBON	100	5%	1/4W		R599	1-249-403-11	CARBON	68	5%	1/4W	F
R542	1-247-807-31	CARBON	100	5%	1/4W		R600	1-249-403-11	CARBON	68	5%	1/4W	F
R543	1-247-807-31	CARBON	100	5%	1/4W								
R544	1-247-807-31	CARBON	100	5%	1/4W		R601	1-249-403-11	CARBON	68	5%	1/4W	F
							R602	1-249-403-11	CARBON	68	5%	1/4W	F
R546	1-249-441-11	CARBON	100K	5%	1/4W		R603	1-249-403-11	CARBON	68	5%	1/4W	F
R547	1-247-881-00	CARBON	120K	5%	1/4W		R604	1-249-403-11	CARBON	68	5%	1/4W	F
R548	1-249-433-11	CARBON	22K	5%	1/4W		R605	1-249-403-11	CARBON	68	5%	1/4W	F
R549	1-249-429-11	CARBON	10K	5%	1/4W								
R550	1-249-409-11	CARBON	220	5%	1/4W	F	R606	1-249-403-11	CARBON	68	5%	1/4W	F
							R607	1-249-415-11	CARBON	680	5%	1/4W	F
R551	1-249-409-11	CARBON	220	5%	1/4W	F	R608	1-247-807-31	CARBON	100	5%	1/4W	
R552	1-247-807-31	CARBON	100	5%	1/4W		R614	1-249-434-11	CARBON	27K	5%	1/4W	
R553	1-247-807-31	CARBON	100	5%	1/4W		R615	1-249-429-11	CARBON	10K	5%	1/4W	
R554	1-247-807-31	CARBON	100	5%	1/4W								
R555	1-247-807-31	CARBON	100	5%	1/4W		R616	1-249-429-11	CARBON	10K	5%	1/4W	
							R617	1-249-417-11	CARBON	1K	5%	1/4W	F
R556	1-247-807-31	CARBON	100	5%	1/4W		R618	1-247-843-11	CARBON	3.3K	5%	1/4W	
R557	1-247-807-31	CARBON	100	5%	1/4W		R619	1-249-437-11	CARBON	47K	5%	1/4W	
R558	1-247-807-31	CARBON	100	5%	1/4W		R621	1-247-843-11	CARBON	3.3K	5%	1/4W	
R559	1-247-807-31	CARBON	100	5%	1/4W								
R560	1-247-807-31	CARBON	100	5%	1/4W		R622	1-247-843-11	CARBON	3.3K	5%	1/4W	
							R623	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R561	1-247-807-31	CARBON	100	5%	1/4W								
R562	1-247-807-31	CARBON	100	5%	1/4W								
R563	1-247-807-31	CARBON	100	5%	1/4W								
R564	1-247-807-31	CARBON	100	5%	1/4W								
R565	1-247-807-31	CARBON	100	5%	1/4W								

PANEL

POWER AMP

Ref. No.	Part No.	Description	Remarks
< SWITCH >			
S501	1-762-751-11	SWITCH, TACTILE (EQ 16kHz+)	
S502	1-762-751-11	SWITCH, TACTILE (NAME IN)	
S503	1-762-751-11	SWITCH, TACTILE (CHAR)	
S504	1-762-751-11	SWITCH, TACTILE (EQ MEMORY)	
S505	1-762-751-11	SWITCH, TACTILE (OPEN/CLOSE)	
S506	1-762-751-11	SWITCH, TACTILE (TUNER BAND)	
S507	1-762-751-11	SWITCH, TACTILE (STEREO/MONO)	
S508	1-762-751-11	SWITCH, TACTILE (TUNING MEMORY)	
S509	1-762-875-21	SWITCH, KEYBOARD (KARAOKE PON/MPX)	
S510	1-762-751-11	SWITCH, TACTILE (OPEN SENSOR ON/OFF)	
S511	1-762-751-11	SWITCH, TACTILE (INSERT)	
S512	1-762-751-11	SWITCH, TACTILE (DELETE)	
S513	1-762-751-11	SWITCH, TACTILE (EQ 16kHz-)	
S514	1-762-751-11	SWITCH, TACTILE (FUNCTION)	
S515	1-762-751-11	SWITCH, TACTILE (TIMER SELECT)	
S516	1-762-751-11	SWITCH, TACTILE (CLOCK/TIMER SET)	
S517	1-762-751-11	SWITCH, TACTILE (POWER)	
S518	1-762-751-11	SWITCH, TACTILE (DISPLAY/DEMO)	
S520	1-762-751-11	SWITCH, TACTILE (SURROUND+)	
S521	1-762-751-11	SWITCH, TACTILE (SURROUND-)	
S522	1-762-751-11	SWITCH, TACTILE (DBFB-)	
S523	1-762-751-11	SWITCH, TACTILE (DBFB+)	
S524	1-762-751-11	SWITCH, TACTILE (EQ 63Hz+)	
S525	1-762-751-11	SWITCH, TACTILE (EQ 63Hz-)	
S526	1-762-751-11	SWITCH, TACTILE (EQ 250Hz-)	
S527	1-762-751-11	SWITCH, TACTILE (EQ 250Hz+)	
S528	1-762-751-11	SWITCH, TACTILE (EQ 1kHz+)	
S529	1-762-751-11	SWITCH, TACTILE (EQ 1kHz-)	
S530	1-762-751-11	SWITCH, TACTILE (EQ 4kHz-)	
S531	1-762-751-11	SWITCH, TACTILE (EQ 4kHz+)	
< VIBRATOR >			
X501	1-760-489-11	VIBRATOR, CERAMIC 5MHz	
X502	1-567-098-41	VIBRATOR, CRYSTAL 32.768kHz	

*	A-4419-957-A	POWER AMP BOARD, COMPLETE (EA,HK,MY,SP)	

*	A-4426-819-A	POWER AMP BOARD, COMPLETE (TH)	

< CAPACITOR >			
C811	1-136-165-00	FILM 0.1uF 5% 50V	
C812	1-136-165-00	FILM 0.1uF 5% 50V	
C813	1-126-974-11	ELECT 3300uF 20% 50V	
C814	1-126-974-11	ELECT 3300uF 20% 50V	
C901	1-126-963-11	ELECT 4.7uF 20% 50V	
C902	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C903	1-162-282-31	CERAMIC 100PF 10% 50V	
C904	1-126-967-11	ELECT 47uF 20% 50V	
C905	1-126-967-11	ELECT 47uF 20% 50V	
C906	1-136-495-11	FILM 0.068uF 5% 50V	
C907	1-136-495-11	FILM 0.068uF 5% 50V	
C932	1-128-560-11	ELECT 22uF 20% 100V	
C933	1-128-581-11	ELECT 4.7uF 20% 100V	
C934	1-128-552-51	ELECT 47uF 20% 63V	
C936	1-162-282-31	CERAMIC 100PF 10% 50V	

Ref. No.	Part No.	Description	Remarks
C937	1-128-560-11	ELECT 22uF 20% 100V	
C938	1-126-934-11	ELECT 220uF 20% 16V	
C940	1-128-581-11	ELECT 4.7uF 20% 100V	
C950	1-162-306-11	CERAMIC 0.01uF 30% 16V	(TH)
C951	1-126-963-11	ELECT 4.7uF 20% 50V	
C952	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C953	1-162-282-31	CERAMIC 100PF 10% 50V	
C954	1-126-967-11	ELECT 47uF 20% 50V	
C955	1-126-967-11	ELECT 47uF 20% 50V	
C956	1-136-495-11	FILM 0.068uF 5% 50V	
C957	1-136-495-11	FILM 0.068uF 5% 50V	
< CONNECTOR >			
CN902	1-691-770-11	PLUG (MICRO CONNECTOR) 8P	
CN904	1-691-161-11	PIN, CONNECTOR 4P	
< DIODE >			
D809	8-719-028-23	DIODE D3SBA20-4101	
D903	8-719-911-19	DIODE 1SS119-25	
D941	8-719-911-19	DIODE 1SS119-25	
D953	8-719-911-19	DIODE 1SS119-25	
< IC >			
IC901	8-749-010-34	IC STK4241MK2	
< TRANSISTOR >			
Q131	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q181	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q901	8-729-900-36	TRANSISTOR DTC124ES	
Q902	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
Q952	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
Q971	8-729-900-36	TRANSISTOR DTC124ES	
Q972	8-729-119-78	TRANSISTOR 2SC2785-HFE	
< RESISTOR >			
R133	1-249-425-11	CARBON 4.7K 5% 1/4W F	
R134	1-249-437-11	CARBON 47K 5% 1/4W	
R183	1-249-425-11	CARBON 4.7K 5% 1/4W F	
R184	1-249-437-11	CARBON 47K 5% 1/4W	
R901	1-249-417-11	CARBON 1K 5% 1/4W F	
R902	1-249-437-11	CARBON 47K 5% 1/4W	
R903	1-249-412-11	CARBON 390 5% 1/4W F	
R904	1-249-437-11	CARBON 47K 5% 1/4W	
R906	1-249-429-11	CARBON 10K 5% 1/4W	
R907	1-249-429-11	CARBON 10K 5% 1/4W	
R908	1-249-429-11	CARBON 10K 5% 1/4W	
R909	1-249-429-11	CARBON 10K 5% 1/4W	
R910	1-249-397-11	CARBON 22 5% 1/4W F	
R911	1-249-397-11	CARBON 22 5% 1/4W F	
R913	1-249-417-11	CARBON 1K 5% 1/4W F	
R914	1-249-431-11	CARBON 15K 5% 1/4W	
R915	1-249-441-11	CARBON 100K 5% 1/4W	
△R920	1-217-156-00	REGISTER 0.22 10% 5W F	
△R932	1-212-881-11	FUSIBLE 100 5% 1/4W F	
R933	1-249-421-11	CARBON 2.2K 5% 1/4W F	

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

SURR AMP

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

SURR AMP

SURR SPK

Ref. No.	Part No.	Description	Remarks		
< RESISTOR >					
R4001	1-249-417-11	CARBON	1K	5%	1/4W F
R4002	1-249-437-11	CARBON	47K	5%	1/4W
R4003	1-249-413-11	CARBON	470	5%	1/4W F
R4004	1-249-437-11	CARBON	47K	5%	1/4W
R4006	1-249-425-11	CARBON	4.7K	5%	1/4W F
R4007	1-249-425-11	CARBON	4.7K	5%	1/4W F
R4008	1-249-425-11	CARBON	4.7K	5%	1/4W F
R4009	1-249-425-11	CARBON	4.7K	5%	1/4W F
R4010	1-249-397-11	CARBON	22	5%	1/4W F
R4011	1-249-397-11	CARBON	22	5%	1/4W F
R4013	1-249-417-11	CARBON	1K	5%	1/4W F
R4014	1-249-431-11	CARBON	15K	5%	1/4W
R4015	1-249-441-11	CARBON	100K	5%	1/4W
△ R4020	1-208-602-11	REGISTER	0.22	10%	2W F
△ R4021	1-217-641-00	FUSIBLE	4.7	5%	1/4W F
△ R4032	1-212-881-11	FUSIBLE	100	5%	1/4W F
R4033	1-249-421-11	CARBON	2.2K	5%	1/4W F
R4034	1-249-421-11	CARBON	2.2K	5%	1/4W F
R4035	1-249-421-11	CARBON	2.2K	5%	1/4W F
R4036	1-249-421-11	CARBON	2.2K	5%	1/4W F
△ R4043	1-212-881-11	FUSIBLE	100	5%	1/4W F
R4051	1-249-417-11	CARBON	1K	5%	1/4W F
R4052	1-249-437-11	CARBON	47K	5%	1/4W
R4053	1-249-413-11	CARBON	470	5%	1/4W F
R4054	1-249-437-11	CARBON	47K	5%	1/4W
R4056	1-249-425-11	CARBON	4.7K	5%	1/4W F
R4057	1-249-425-11	CARBON	4.7K	5%	1/4W F
R4058	1-249-425-11	CARBON	4.7K	5%	1/4W F
R4059	1-249-425-11	CARBON	4.7K	5%	1/4W F
R4060	1-249-397-11	CARBON	22	5%	1/4W F
R4061	1-249-397-11	CARBON	22	5%	1/4W F
R4063	1-249-417-11	CARBON	1K	5%	1/4W F
R4064	1-249-431-11	CARBON	15K	5%	1/4W
R4065	1-249-441-11	CARBON	100K	5%	1/4W
△ R4070	1-208-602-11	REGISTER	0.22	10%	2W F

*	1-669-963-11	SURR SPK BOARD	*****		
< CAPACITOR >					
C202	1-104-666-11	ELECT	220uF	20%	25V
C203	1-162-306-11	CERAMIC	0.01uF	30%	16V
< CONNECTOR >					
* CN201	1-569-505-11	PIN, CONNECTOR 10P			
* CN202	1-564-506-11	PLUG, CONNECTOR 3P			
CN781	1-506-468-11	PIN, CONNECTOR 3P			
< DIODE >					
D201	8-719-024-99	DIODE	11ES2-NTA2B		
D782	8-719-911-19	DIODE	1SS119-25		
< JACK >					
J781	1-785-011-11	JACK, PIN 2P (SUPER WOOFER/VIDEO OUT)			

Ref. No.	Part No.	Description	Remarks
< RELAY >			
RY781	1-515-622-11	RELAY	
< TERMINAL >			
TB201	1-537-923-11	TERMINAL BOARD (SPEAKER) (6P) (CENTER SPEAKER/REAR SPEAKER)	

MISCELLANEOUS			

3	1-773-125-11	WIRE (FLAT TYPE) (19 CORE)	
153	1-233-545-32	ENCAPSULATED COMPONENT (AM/FM TUNER) (TH)	
153	1-233-546-32	ENCAPSULATED COMPONENT (AM/FM TUNER) (EXCEPT TH)	
△ 160	1-751-326-31	CORD, POWER (TH)	
△ 160	1-777-071-21	CORD, POWER (EA,HK,MY,SP)	
△ 161	1-569-008-21	ADAPTOR, CONVERSION 2P (EA,MY,SP)	
△ 161	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (HK)	
IC504	8-719-070-85	IC KU381-4	
M891	A-4660-926-A	MOTOR (CDM) ASSY	
M901	1-763-372-11	FAN, DC	
△ T901	1-433-931-11	TRANSFORMER, POWER	

HARDWARE LIST			

#1	7-685-647-79	SCREW +BVTP 3 × 10 TYPE2 N-S	
#2	7-685-646-79	SCREW +BVTP 3 × 8 TYPE2 N-S	
#3	7-621-775-20	SCREW +B 2.6 × 5	
#4	7-685-650-79	SCREW +BVTP 3 × 16 TYPE2 IT-3	
#5	7-685-881-09	SCREW +BVTT 4 × 8 (S)	
#6	7-685-872-09	SCREW +BVTT 3 × 8 (S)	

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