

STR-W55

SERVICE MANUAL

*E Model
Australian Model
Tourist Model*



STR-W55 is RECEIVER section in MHC-W55.

SPECIFICATIONS

Tuner section

FM stereo, FM/ AM superheterodyne tuner

FM tuner section

Tuning range 87.5 – 108.0 MHz (EXCEPT JE)
(76.0 – 108.0 MHz)†(JE)
Aerial terminals 75 ohm unbalanced
Intermediate frequency 10.7 MHz

AM tuner section

Tuning range Latin-American and Australian models:
AM: 530 – 1,710 kHz
(with the AM tuning interval set at 10 kHz)
531 – 1,710 kHz
(with the AM tuning interval set at 9 kHz)
Other models:
MW: 531 – 1,602 kHz
(with the MW tuning interval set at 9 kHz)
SW: 5.95 – 17.90 MHz
Aerial AM loop aerial
External aerial terminals
Intermediate frequency 450 kHz

Amplifier section

Continuous RMS power output 75 + 75 watts
(6 ohms at 1 kHz, 5% THD)
Peak music power output 1,200 watts

Inputs

MD IN (phono jacks):
voltage 450 mV,
impedance 47 kilohms
MIX MIC (phone jacks):
sensitivity 1 mV,
impedance 10 kilohms

Outputs

MD OUT (phono jacks):
voltage 250 mV
impedance 1 kilohms
PHONES (stereo phone jack):
accepts headphones of 8 ohms or more.
FRONT SPEAKER:
accepts impedance of 6 to 16 ohms.
SURROUND SPEAKER:
accepts impedance of 16 ohms.

Supplied accessories

AM loop aerial (1)
Remote RM-SW55 (1)
Sony SUM-3 (NS) batteries (2)
FM lead aerial (1)
Speaker cords (2)

General

Power requirements
Australian model:
240 V AC, 50/60 Hz
EXCEPT Australian model :
110 – 120 V or 220 – 240 V AC
Adjustable, 50/60 Hz

— Continued on page 2 —

FM STEREO/FM-AM RECEIVER
SONY®

Power consumption
230 watts

Dimensions
Amplifier/Tuner section:
Approx. 280 x 205 x 345 mm
(w/h/d)

Mass
Amplifier/Tuner section:
Approx. 6.4 kg

Design and specifications are subject to
change without notice.

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!!



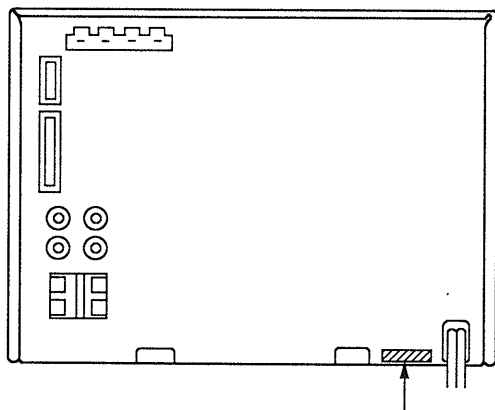
COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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MODEL IDENTIFICATION

— BACK PANEL —



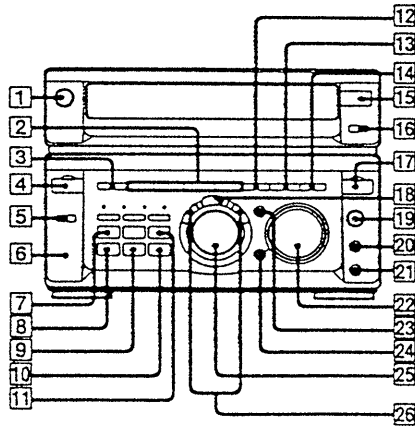
Parts No.	Model
4-978-033-1 <input type="checkbox"/>	E, Saudi Arabia, Argentine, Tourist
4-978-033-3 <input type="checkbox"/>	Australian
4-978-033-4 <input type="checkbox"/>	Hong Kong
4-978-033-5 <input type="checkbox"/>	Malaysia, Singapore, Mexican
4-980-482-0 <input type="checkbox"/>	Thailand

SECTION 1 GENERAL

This section is extracted from instruction manual.

Front Panel

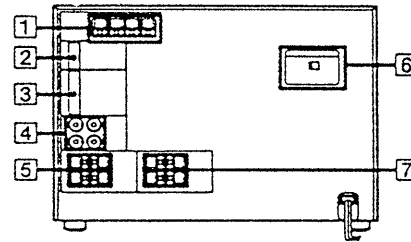
Amplifier/Tuner section



- 1 SYSTEM POWER button
- 2 MENU 1-4 buttons
- 3 EFFECT ON/OFF button
- 4 TIMER button
- 5 SLEEP button
- 6 KARAOKE PON/MPX button
- 7 TUNER MEMORY button*
- 8 CLOCK SET button*
- 9 TIMER SET button*
- 10 TIMER SELECT button*
- 11 TUNING MODE button*
- 12 P FILE button
- 13 MEMORY button
- 14 SURROUND button
- 15 TUNER/BAND button
- 16 DISPLAY button
- 17 FUNCTION button
- 18 ENTER/NEXT button*
- 19 MIC LEVEL knob
- 20 MIX MIC jack
- 21 PHONES jack
- 22 VOLUME knob
- 23 DBFB button
- 24 GROOVE button
- 25 JOG dial
- 26 FREQUENCY +/- buttons

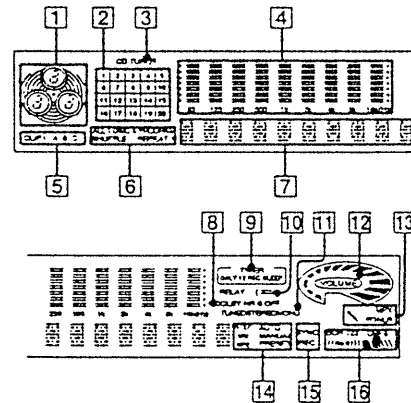
Rear panel

Amplifier/Tuner section



- 1 ANTENNA terminals
- 2 SYSTEM CONTROL 2 terminal
- 3 SYSTEM CONTROL 1 terminal
- 4 MD IN/OUT jacks
- 5 FRONT SPEAKER connectors
- 6 Voltage Selector
(Except for Australian, Thailand models)
- 7 SURROUND SPEAKER connectors

Display Window



- 1 Disc tray indicator
- 2 Music calendar
- 3 CD/TUNER indicator
- 4 Graphic Equalizer indication
- 5 CLIP indicators
- 6 CD playback indicators
- 7 Multi-display
- 8 DOLBY NR indicator
- 9 Timer indicators
- 10 Direction mode indicators
- 11 Tuner indicators
- 12 VOLUME indicators
- 13 Karaoke PON/MPX indicators
- 14 Tuning indicators
- 15 SYNC REC indicator
- 16 DBFB/SUR indicators

SECTION 2

TEST MODE

DISPLAY/KEY TEST MODE

Press the ENTER/NEXT and FUNCTION buttons simultaneously.

Then press the MENU 1 button with the following 4 seconds to set the Test Mode.

1. The message "W1 J(destination)" appears on the screen and a 32 cycle square wave of the subcrystal oscillator is output from Pin 24 (AUB. OUT).
2. Press any key to rotate JOG and all FL indicators light up.
When you rotate JOG at this point, the display changes as follows.
← all FL indicators on ↔ FL pattern 1 ↔ FL pattern 2 →
The changes and all LED indicators light up.
3. Again press any key to set the key count check. The following display appears.
0 0 0
The numbers in order from left to right show; the number of keys pressed, the JOG count (1 click per 4 counts), and the VOL count. (1 cycle is a count of 96.)
4. Press the Power button to reset to the factory settings.

AMP TEST MODE

Press the ENTER/NEXT and FUNCTION buttons simultaneously.

Then press the MENU 2 button with the following 4 seconds to set the Test Mode.

1. The message "AMP TEST" appears on the screen. Press the MENU button to call up the Equalizer Curve for the Amp Test.
However when the function is set to the tuner, use the MENU button to call up each tuner preset from 1 through 5.
2. Press the Power button to reset to the factory settings.

MICROCOMPUTER COLD START

Press the ENTER/NEXT and FUNCTION buttons simultaneously.

Then press the MENU 3 button with the following 4 seconds to reset the microcomputer to the factory settings.

SUBCRYSTAL TEST MODE

Press the ENTER/NEXT and FUNCTION buttons simultaneously.

Then press the MENU 4 button with the following 4 seconds.

The message "XTAL TEST" appears on the screen and a 32 cycle square wave of the subcrystal oscillator is output from Pin 24 (AUB. OUT).

In addition, a square wave of the same frequency as the subcrystal oscillator, is output from 4PIN (POWER. ON/OFF).

Press the Power button to reset to the factory settings.

SECTION 3 ELECTRICAL ADJUSTMENTS

Precautions in Repairing

Note. 1 : The adjustment should be performed in the publication.
(MW → FM → SW)

Note. 2 : As a front-end (FE1) is difficult to repair if faulty, replace it with new one.

● Abbreviation

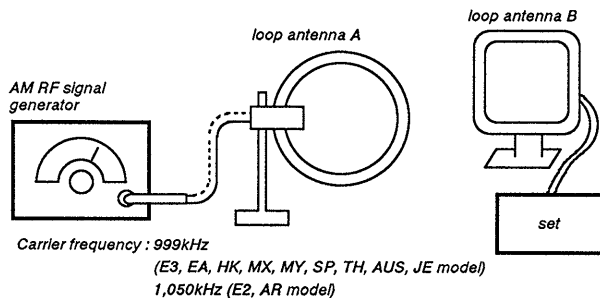
EA : Saudi Arabia	E2 : Tuner sections SW BAND do not exist.
HK : Hong Kong	E3 : Tuner sections SW BAND exist.
SP : Singapore	MX : Mexican
MY : Malaysia	TH : Thailand
AUS : Australian	
JE : Tourist	
AR : Argentine	

MW SECTION

MW Tuned Indication Lighting Level

Setting :

Band : MW



Procedure :

1. Set loop antenna A so that the loop antenna B input level becomes 55dB μ /m (0.6mV/m)
2. Tune the set to 999kHz (E3, EA, HK, MX, MY, SP, TH, AUS, JE model), 1,050kHz (E2, AR model).
3. Adjust RV41 so that the TUNED indicator goes on.

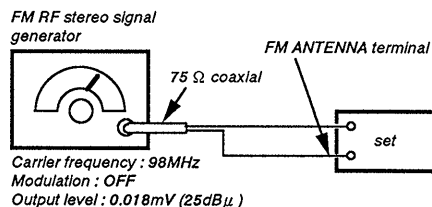
FM SECTION

FM Tuned Indication Lighting Level

Note : Always make the tuning level adjustment first.
(Since it affects the the FM tuning level.)

Setting :

Band : FM



Procedure :

1. Tune the set to 98MHz.
2. Adjust RV42 so that the TUNED indicator goes on.

SW Control Voltage Adjustment

(Frequency Coverage Adjustment)

(E3, EA, MX, MY, SP, HK, JE model)

Setting :

Band : SW

Procedure :

1. Connect digital Voltmeter to diode D1 center lead and ground.
2. Adjust for a following value reading on digital voltmeter.

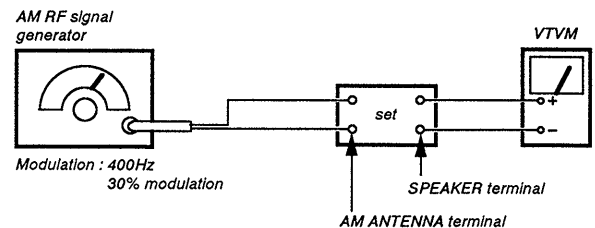
	Set frequency	Adjustment part	Reading on digital voltmeter
SW	5.95MHz	T2	1.2Vdc
	17.9MHz	CV2	8.5Vdc

SW Tracking Adjustment

(E3, EA, MX, MY, SP, HK, JE model)

Setting :

Band : SW



Procedure :

Adjust for maximum reading on VTVM

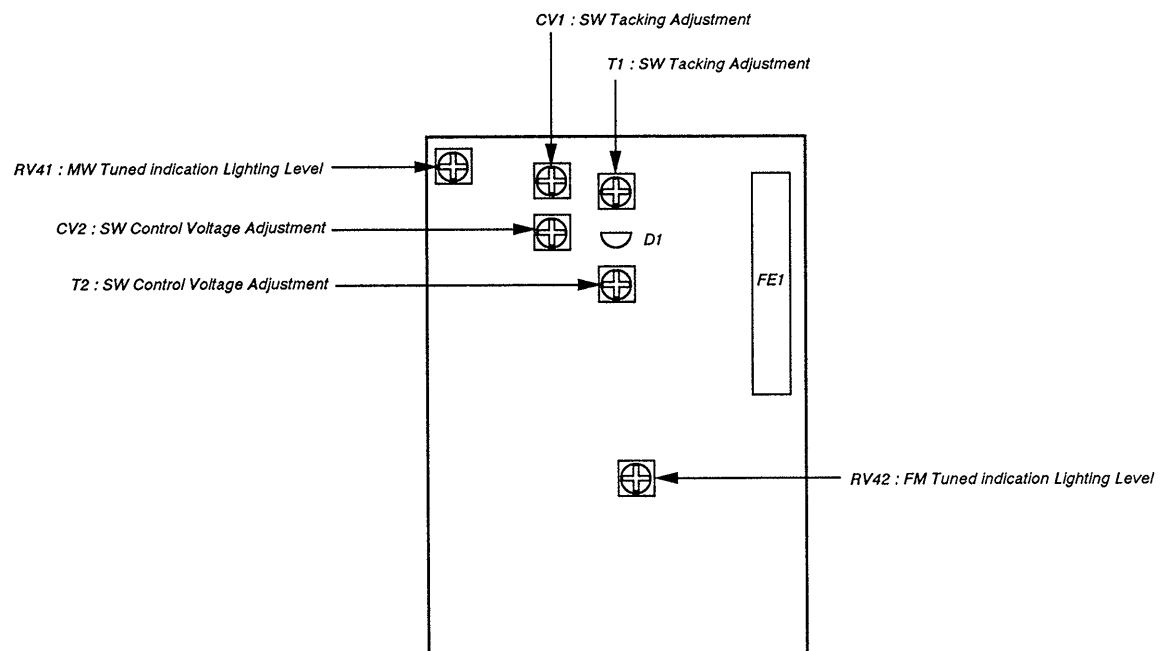
	Set frequency	Adjustment part
SW	7MHz	T1
	17MHz	CV1

- Repeat the procedures is each adjustment several times, and the frequency coverage and tracking adjustment should be finally done by the trimmer capacitors.

Adjustment Location : TCB board

Adjustment Location :

[TCB BOARD] (Component side)



SECTION 4

EXPLANATION OF IC TERMINALS

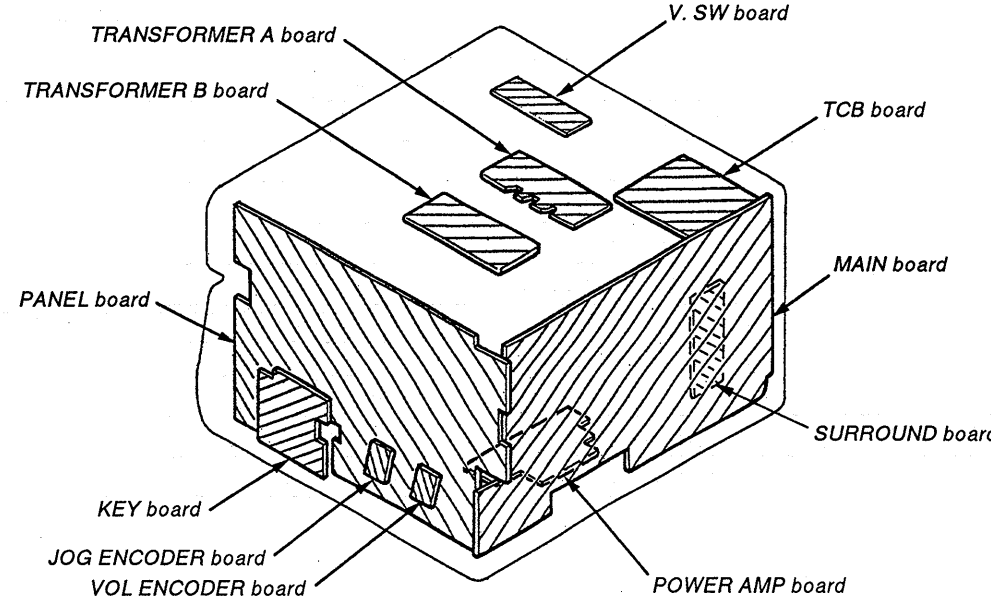
IC501 ASD0204GF-011-3BA (SYSTEM CONTROL)

Pin No.	Pin name	I/O	Description
1	V _{DD}	—	Power supply.
2	CLK OUT	O	Direct output for communications with HTC.
3	RDY IN	I/O	Direct input/output for communications with HTC.
4	POWER ON/OFF	O	L : Relay ON
5	MUTE	O	Mute output to transistor. L : Mute ON
6, 7	—	—	Not used.
8	427LAT	O	Latch output to IC105 (M62427FP).
9	LED LAT	O	Latch output to IC504 (M66313FP).
10	RESET	I	Reset terminal.
11	X2	—	Oscillator connection terminal. (5MHz)
12	X1	—	Oscillator connection terminal. (5MHz)
13	IC	—	GND connection.
14	XT2	—	Oscillator connection terminal. (32kHz)
15	XT1	—	Oscillator connection terminal. (32kHz)
16	V _{DD}	—	Power supply.
17	BACK UP	I	AC Power supply OFF.
18	COM CLK	O	Transfer clock output serial data.
19	COM DATA	O	Serial data output.
20	ST DATA IN	I	Serial data input from IC1.
21	ST CE	O	Chip enable output to IC1.
22	STEREO	I	Stereo signal input.
23	TUNED	I	Tuned signal input.
24	AUB OUT	O	Audio bus output.
25	AV _{ss}	—	GND
26	—	—	Not used.
27	SUFFIX	I	Input for model select.
28	SPE	I	Spectrum analyzer signal input.
29	SPE	I	Spectrum analyzer signal input.
30	SPE	I	Spectrum analyzer signal input.
31	SPE	I	Spectrum analyzer signal input.
32	KEY 1	I	Key data input (A/D converter).
33	KEY 2	I	Key data input (A/D converter).
34	AV _{DD}	—	Power supply for analog.
35	AV REF	—	Reference voltage for A/D converter.
36	VOL IN A	I	Volume encoder input.
37	JOG IN A	I	JOG dial encoder input.
38	RDS CLK	I	Not used.
39	AUB IN	I	Audio bus output.
40	V _{ss}	—	GND

Pin No.	Pin name	I/O	Description												
41	RDS DATA	I	Not used.												
42	D3	I/O	System control data signal input/output.												
43	D2	I/O	System control data signal input/output.												
44	D1	I/O	System control data signal input/output.												
45	D0	I/O	System control data signal input/output.												
46	V _{DD}	—	Power supply +5V.												
47	SIRCS IN	I	SIRCS signal input.												
48	VOL IN B	I	Volume encoder input.												
49	JOG IN B	I	JOG dial encoder input.												
50	ST FM	O	<div>BAND select output.<table><tr><td></td><td>FM Receiving</td><td>AM Receiving</td><td>MUTE</td></tr><tr><td>Ⓔ Pin</td><td>H</td><td>L</td><td>H</td></tr><tr><td>Ⓕ Pin</td><td>L</td><td>L</td><td>H</td></tr></table></div>		FM Receiving	AM Receiving	MUTE	Ⓔ Pin	H	L	H	Ⓕ Pin	L	L	H
	FM Receiving	AM Receiving		MUTE											
Ⓔ Pin	H	L		H											
Ⓕ Pin	L	L	H												
51	ST MUTE	O													
52	EMG OUT	O	Urgent signal standby output. “H” : standby												
53	EMG IN	I	Urgent signal start input. “H” → “L” : start												
57 – 78	P32 – P8	O	Segment output to FL501.												
79	VG	—	Power supply for fluorescent indicator tube.												
80 – 86	P7 – P1	O	Segment output to FL501.												
87 – 100	14G – 1G	O	Grid output for FL501.												

SECTION 5
DIAGRAMS

● CIRCUIT BOARDS LOCATION



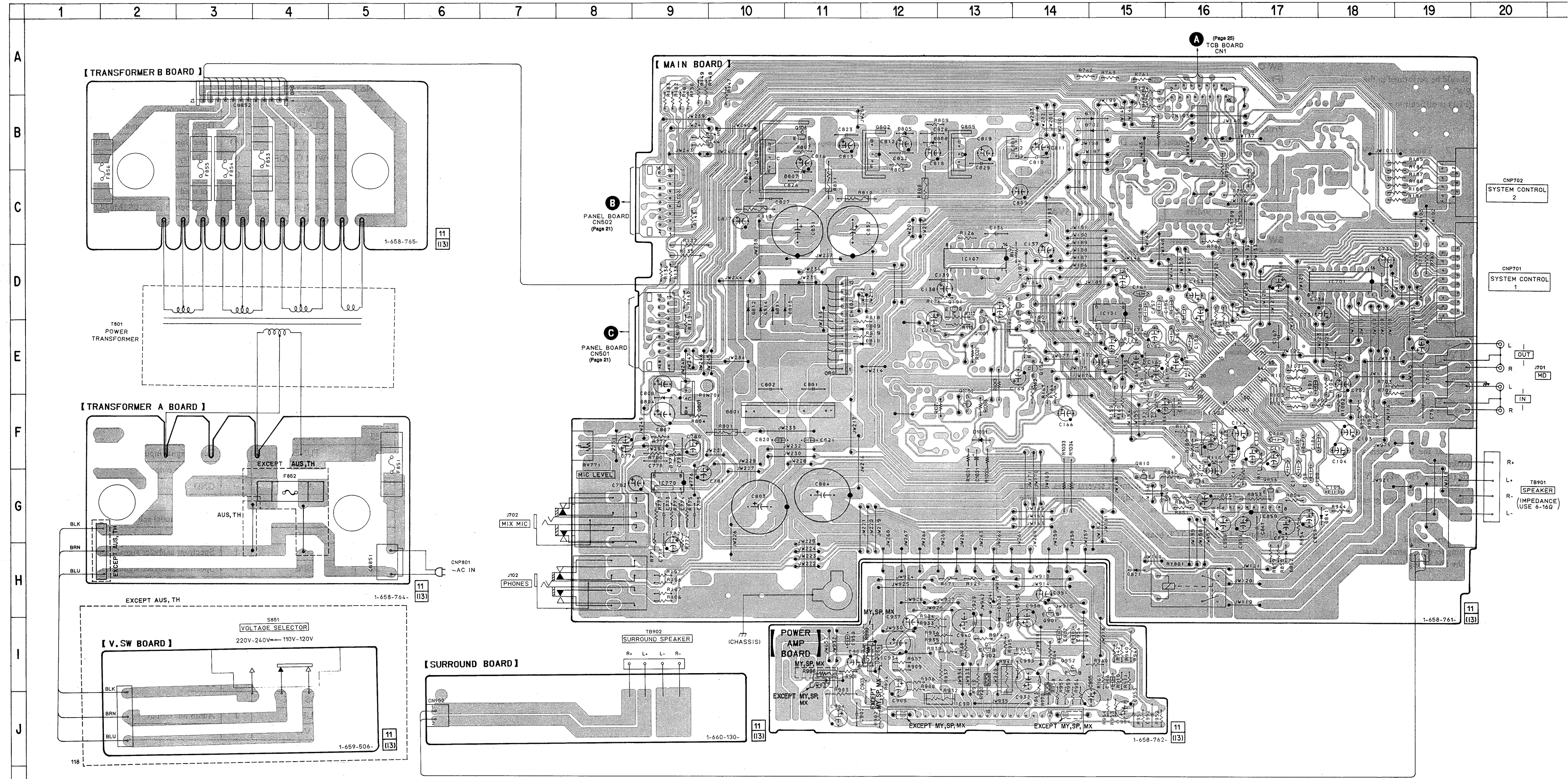
● SEMICONDUCTOR
LOCATION

Ref. No.	Location
D701	B - 15
D702	B - 15
D801	F - 10
D804	F - 9
D805	B - 12
D807	C - 11
D808	B - 12
D809	E - 12
D810	E - 12
D811	D - 10
D812	D - 10
D813	D - 10
D814	D - 10
D821	H - 15
D824	C - 10
D840	G - 15
D841	G - 17
D852	H - 17
D903	H - 13
D953	H - 14
D1031	F - 13
IC101	D - 15
IC105	E - 16
IC107	D - 13
IC701	D - 18
IC770	D - 18
IC801	B - 13
IC850	G - 17
IC901	J - 13
Q106	D - 11
Q190	D - 14
Q191	D - 13
Q192	E - 14
Q801	F - 9
Q802	B - 12
Q804	B - 10
Q805	B - 13
Q810	G - 15
Q856	G - 17
Q857	G - 16
Q901	H - 14
Q902	I - 13
Q952	I - 14
Q1001	E - 13
Q1051	F - 13

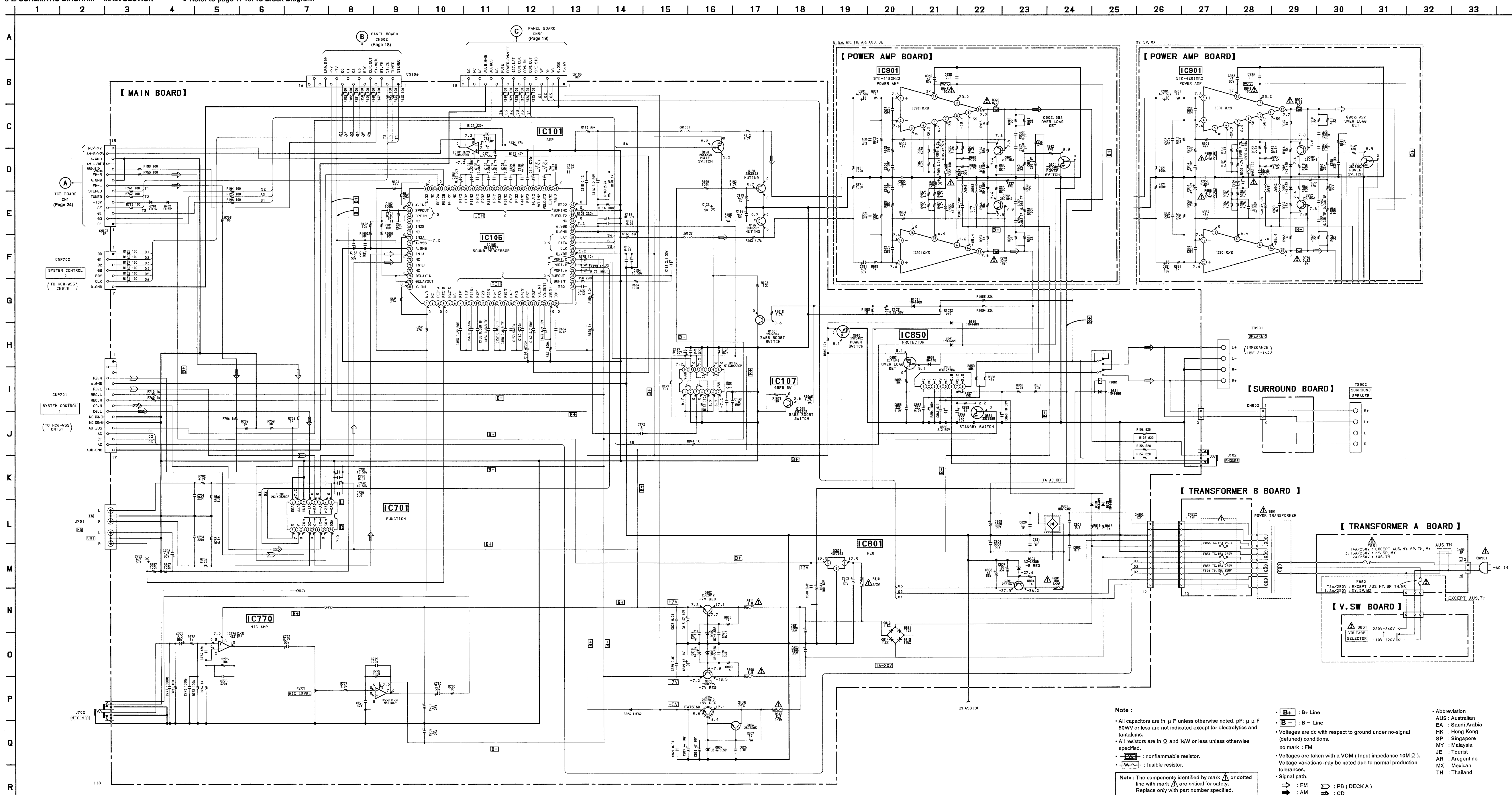
Note:

- — : parts extracted from the component side.
- ▨ : Pattern on the side which is seen.
- Abbreviation
AUS : Australian
EA : Saudi Arabia
HK : Hong Kong
SP : Singapore
MY : Malaysia
JE : Tourist
AR : Argentine
MX : Mexican
TH : Thailand

5-1. PRINTED WIRING BOARDS — MAIN SECTION —

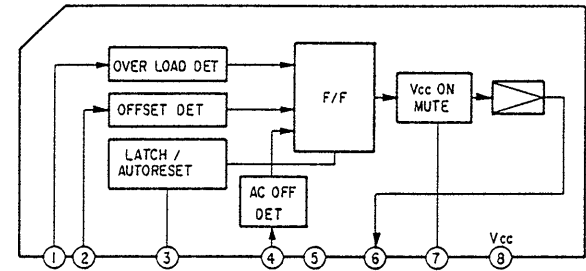


5-2. SCHEMATIC DIAGRAM – MAIN SECTION – ● Refer to page 17 for IC Block Diagram.



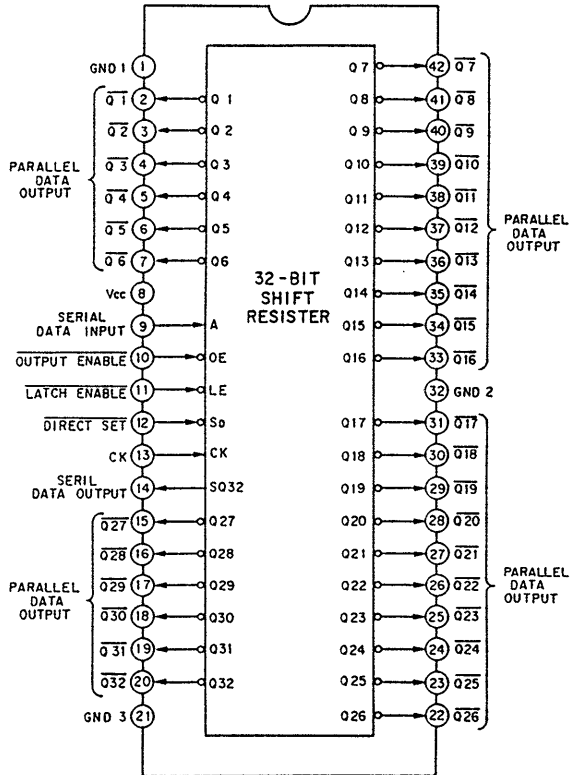
• IC BLOCK DIAGRAM – MAIN SECTION –

IC850 μ PC1237HA



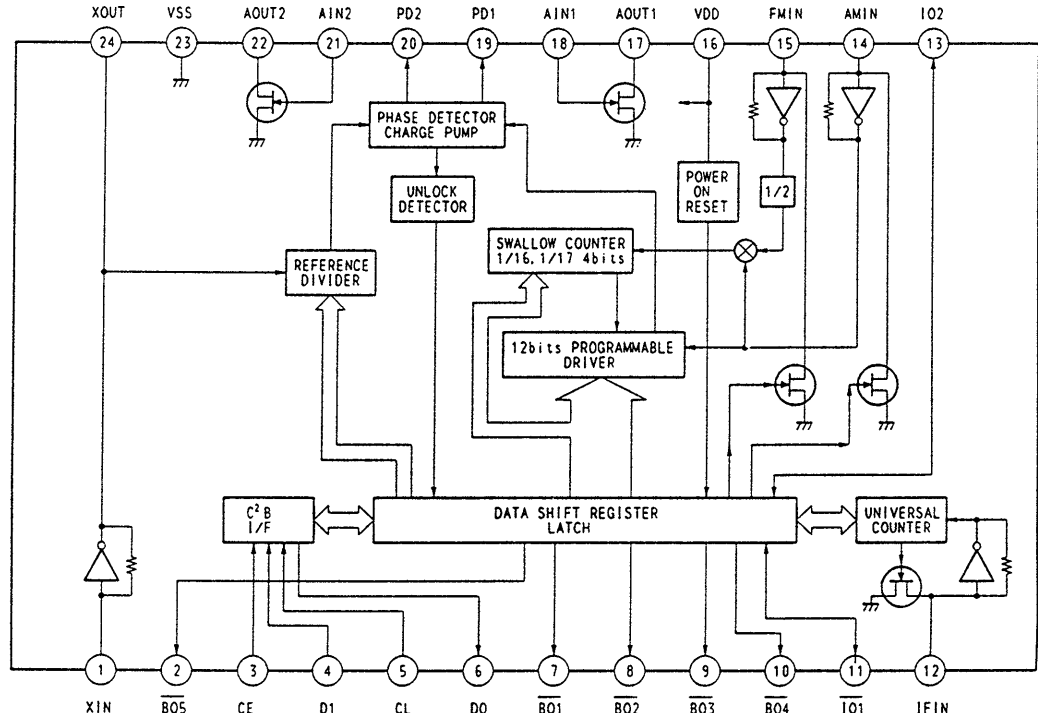
• IC BLOCK DIAGRAM – PANEL SECTION –

IC504 M66313FP-200C

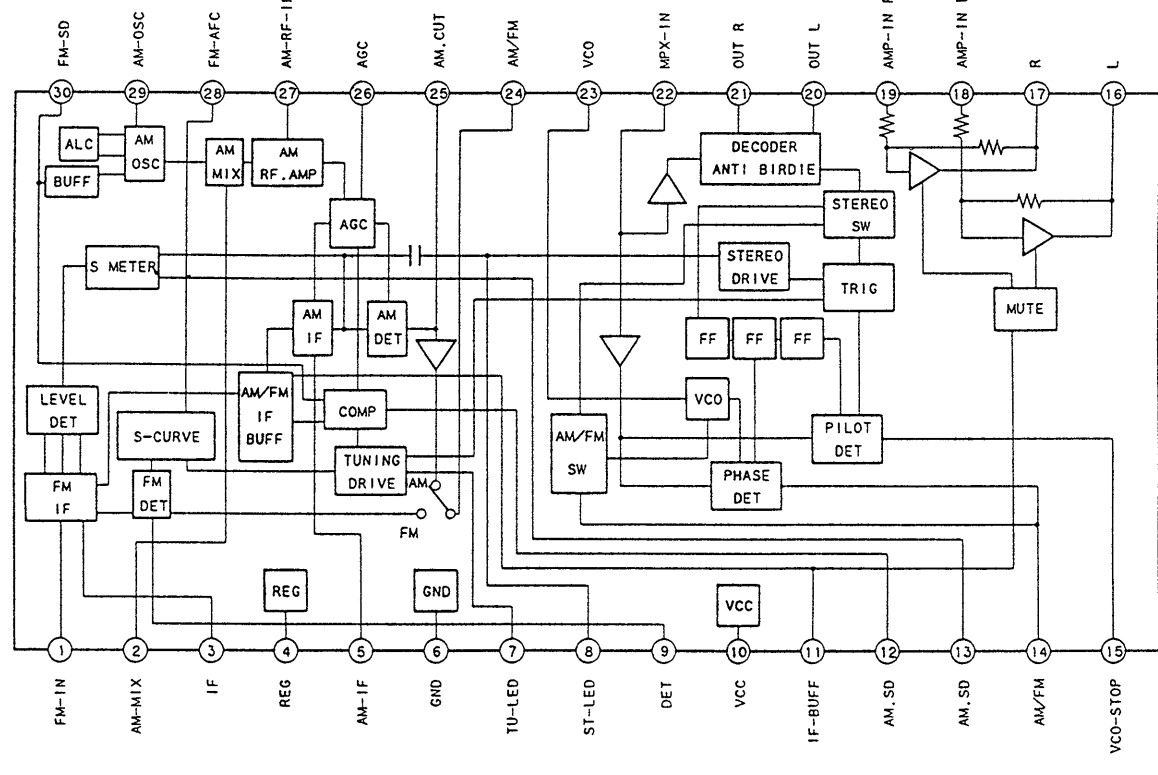


• IC BLOCK DIAGRAMS – TCB SECTION –

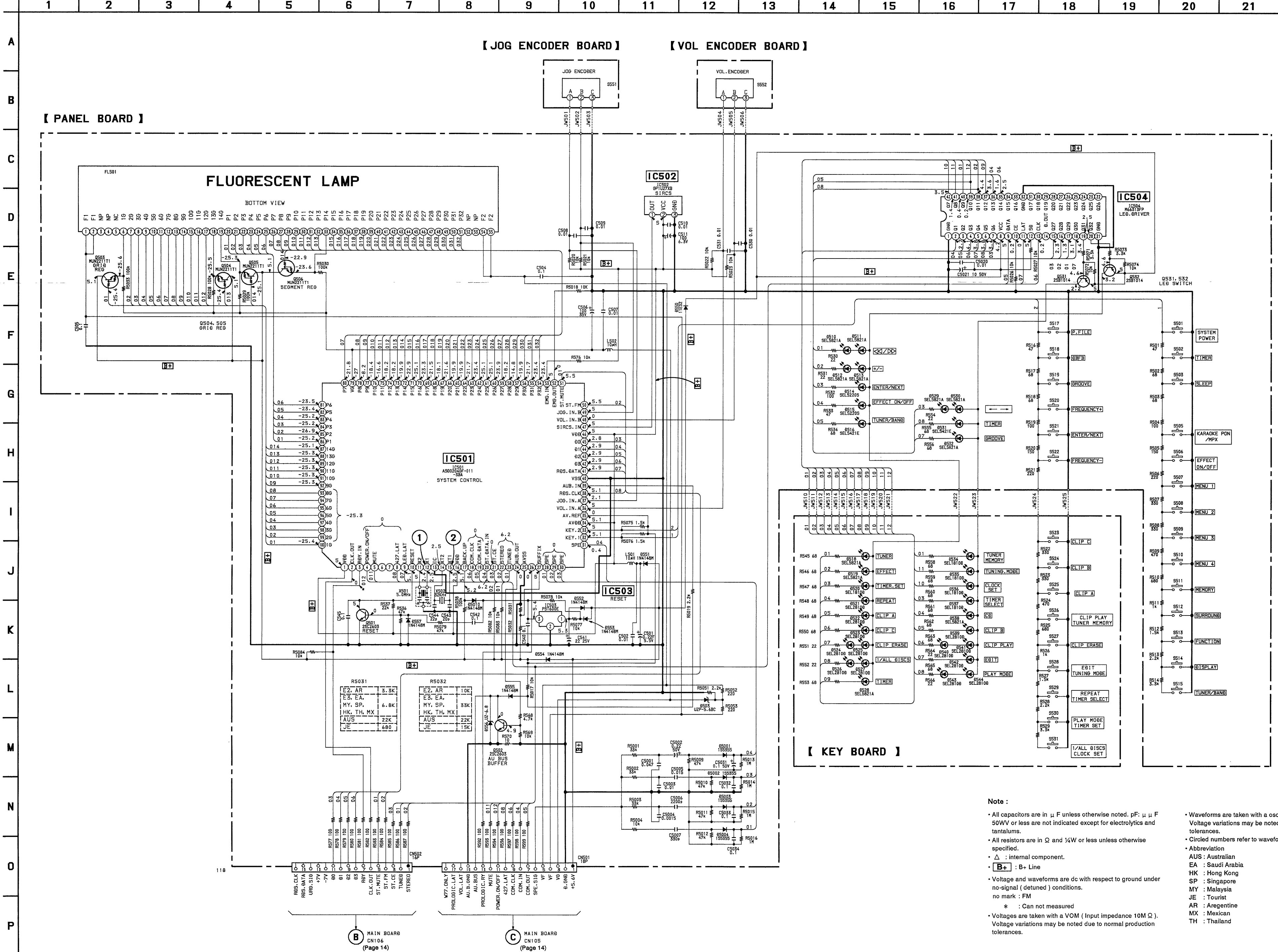
IC21 LC72130



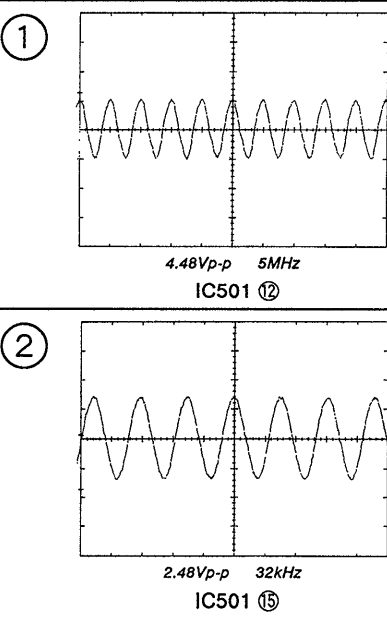
IC41 LA1835



5-3. SCHEMATIC DIAGRAM – PANEL SECTION –



WAVEFORMS – PANEL SECTION –

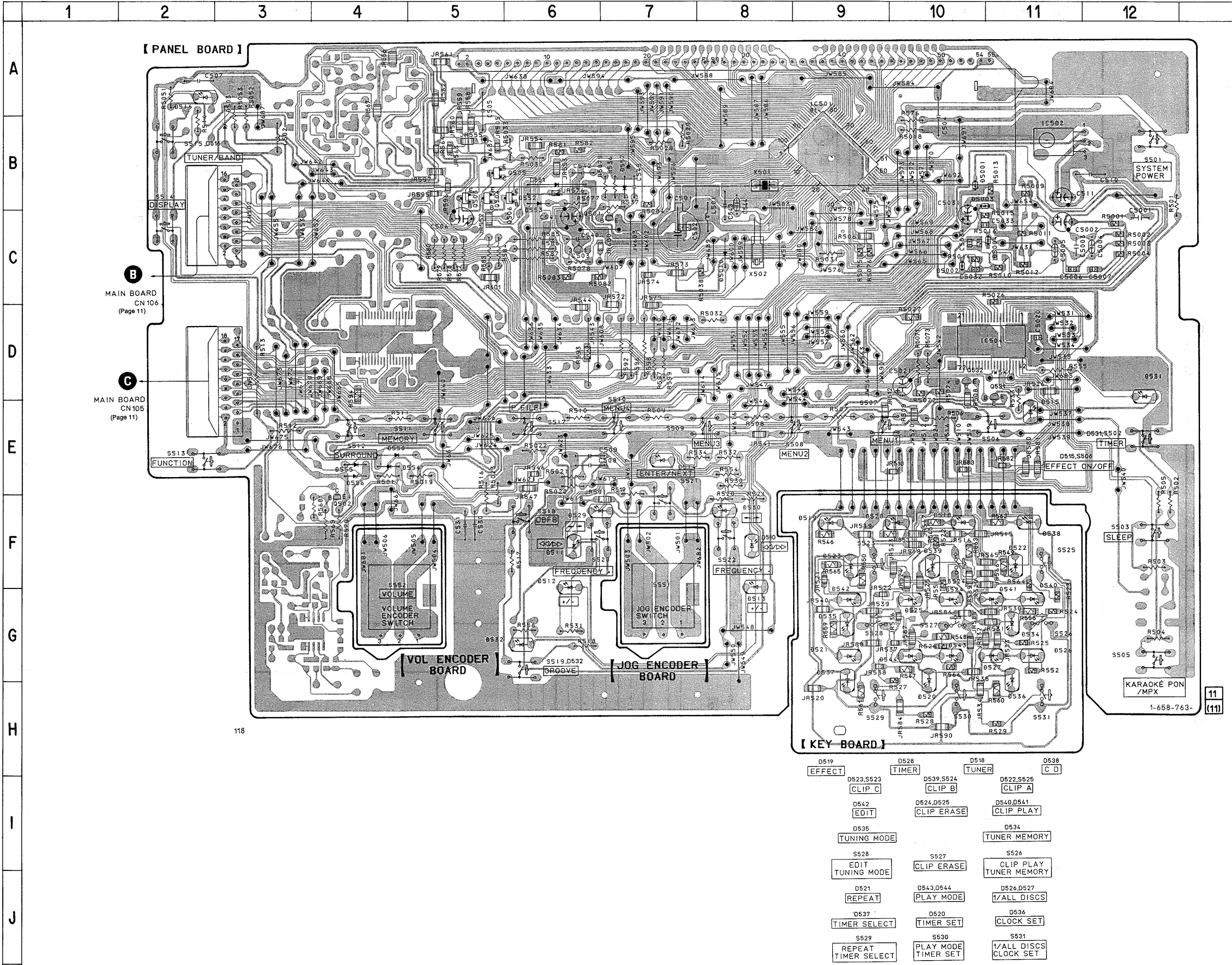


Note :

- All capacitors are in μ F unless otherwise noted. pF: μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
- Δ : internal component.
- [B+]: B+ Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark : FM
- * : Can not measured
- 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.
- Abbreviation
- AUS : Australian
- EA : Saudi Arabia
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5-4. PRINTED WIRING BOARDS – PANEL SECTION –



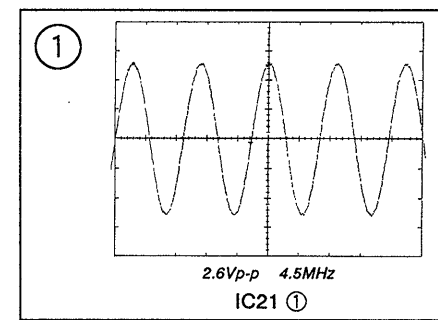
● SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D503	B - 3	D551	B - 6
D510	F - 8	D552	B - 6
D511	F - 6	D553	B - 6
D512	F - 6	D554	E - 4
D513	G - 8	D555	E - 4
D514	E - 7	D556	E - 4
D515	E - 11	D557	B - 7
D516	A - 2	D5001	B - 10
D518	F - 10	D5002	C - 10
D519	F - 9	D5003	B - 10
D520	H - 10	D5004	C - 11
D521	G - 9	D5010	C - 8
D522	F - 11	IC501	B - 9
D523	F - 9	IC502	B - 11
D524	G - 10	IC503	C - 6
D525	G - 10	IC504	D - 11
D526	G - 11	Q501	C - 7
D527	G - 11	Q502	F - 4
D528	F - 10	Q503	B - 5
D529	F - 6	Q504	B - 5
D530	F - 8	Q505	B - 5
D531	D - 12	Q506	B - 6
D532	F - 6	Q531	D - 11
D534	G - 11	Q532	D - 10
D535	G - 9		
D536	H - 11		
D537	G - 9		
D538	F - 11		
D539	F - 10		
D540	G - 11		
D541	G - 11		
D542	G - 9		
D543	G - 10		
D544	G - 10		
D550	E - 4		

Note:

- : parts extracted from the component side.
- ⊙ : Pattern on the side which is seen.
- Abbreviation
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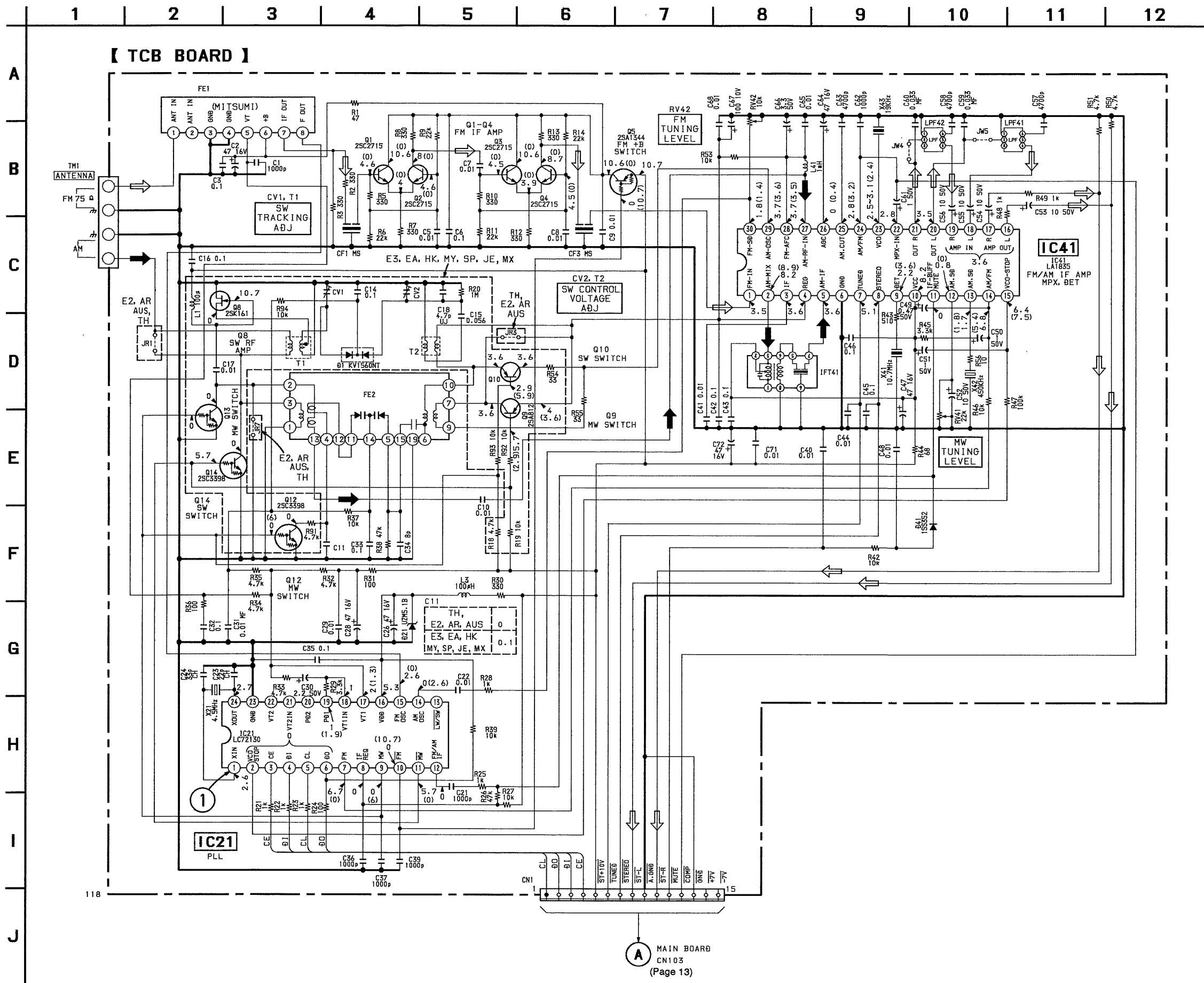
WAVEFORM – TCB SECTION –



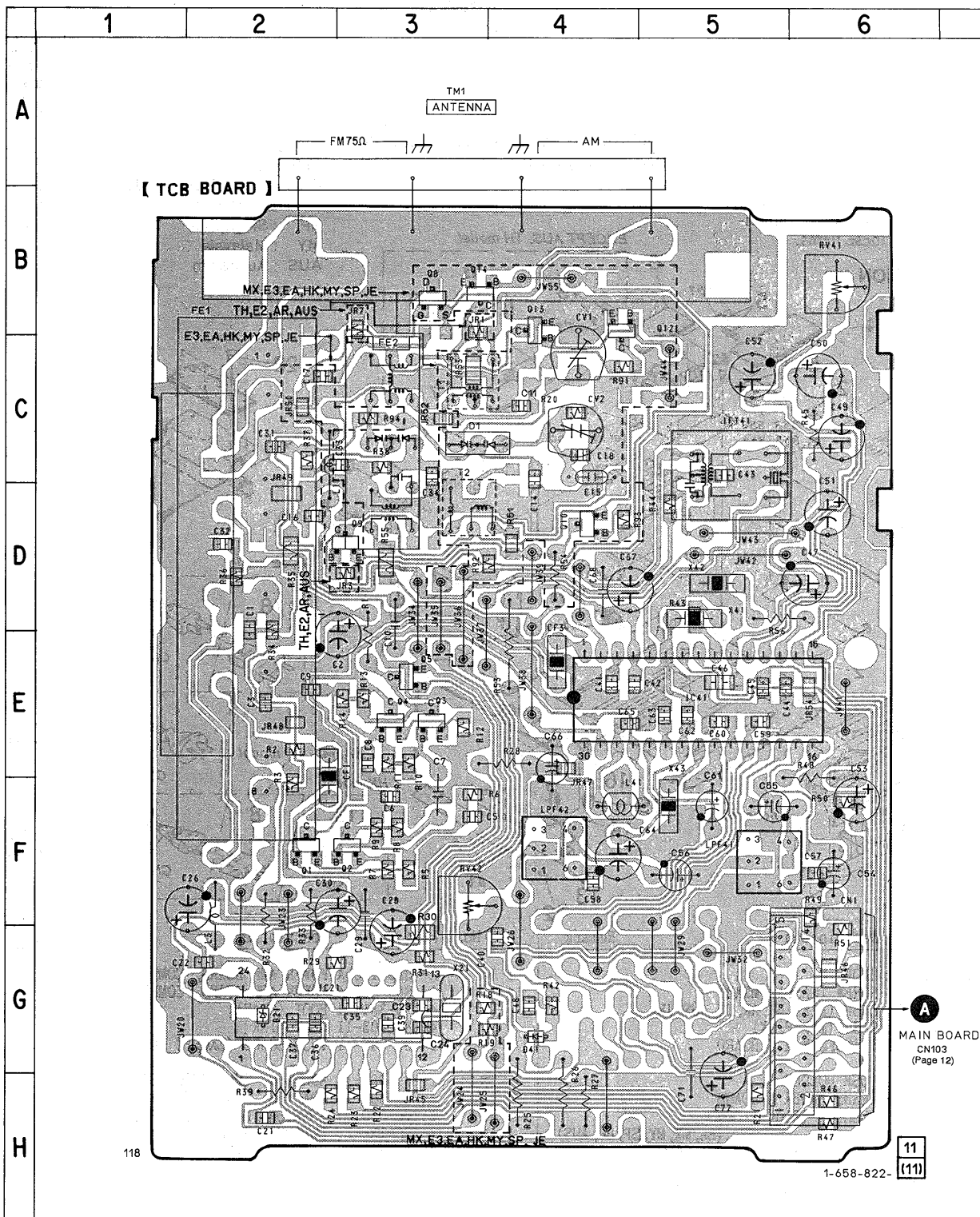
Note :

- All capacitors are in μ F unless otherwise noted, pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.
- Δ : internal component.
- **B+** : B+ Line
- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM
() : AM
- 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.
- Circled numbers refer to waveforms.
- Signal path.
 \Rightarrow : FM \Rightarrow : AM
- Abbreviation
AUS : Australian
EA : Saudi Arabia
HK : Hong Kong
SP : Singapore
MY : Malaysia
JE : Tourist
AR : Aregentine
MX : Mexican
TH : Thailand

5-5. SCHEMATIC DIAGRAM – TCB SECTION – • Refer to page 17 for IC Block Diagrams.



5-6. PRINTED WIRING BOARDS – TCB SECTION –



● SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D1	C-3	Q1	F-2	Q9	D-3
D21	C-2	Q2	F-3	Q10	D-4
D41	G-4	Q3	E-3	Q12	B-4
		Q4	E-3	Q13	B-4
		Q5	E-3	Q14	B-3
IC21	G-3				
IC41	E-5	Q8	B-3		

Note:

- — : parts extracted from the component side.
- : Pattern on the side which is seen.
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 - SP : Singapore
 - MY : Malaysia
 - JE : Tourist
 - AR : Argentine
 - MX : Mexican
 - TH : Thailand

SECTION 6 EXPLODED VIEWS

NOTE :

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

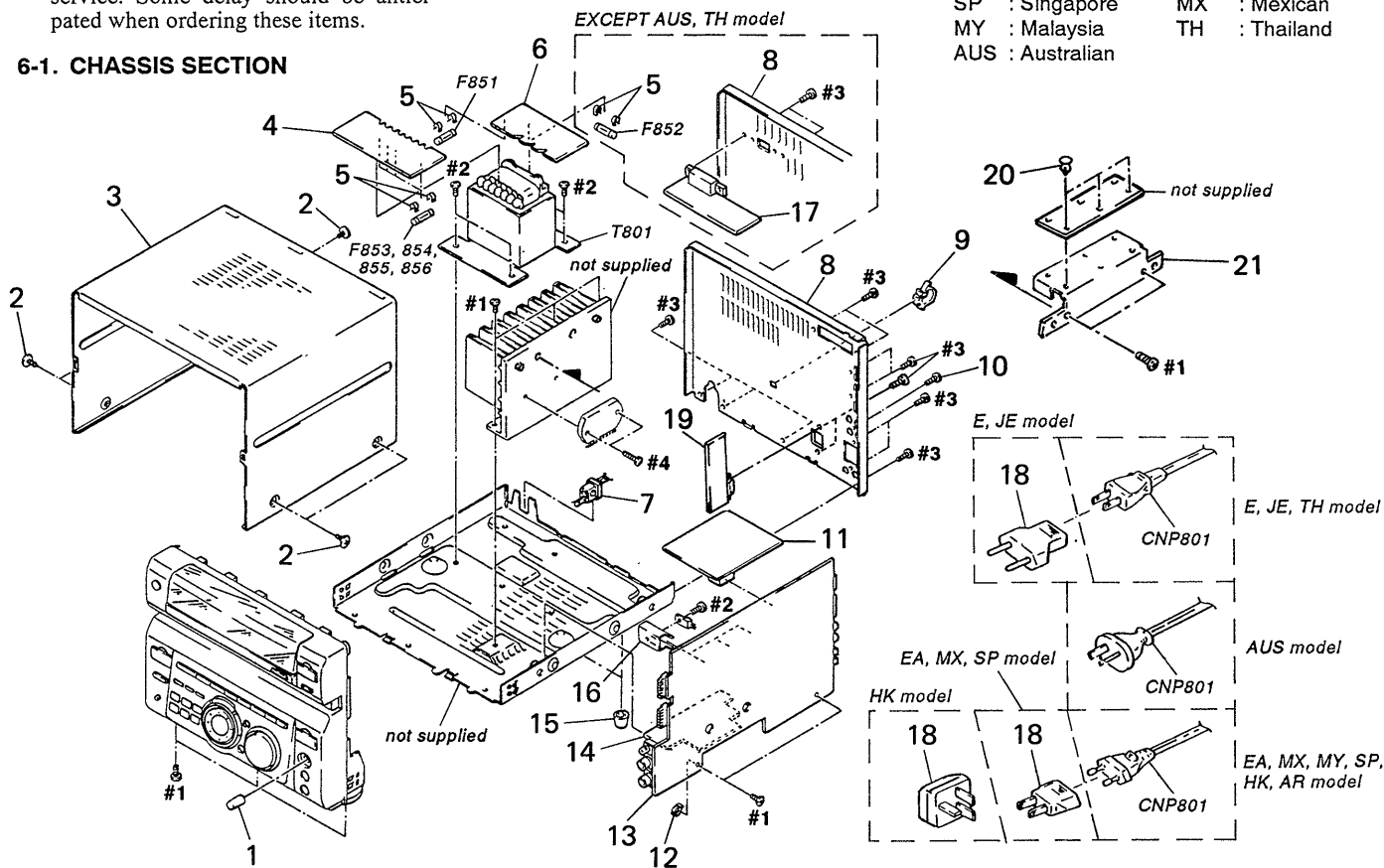
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

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

● Abbreviation

EA : Saudi Arabia	JE : Tourist
HK : Hong Kong	AR : Argentine
SP : Singapore	MX : Mexican
MY : Malaysia	TH : Thailand
AUS : Australian	

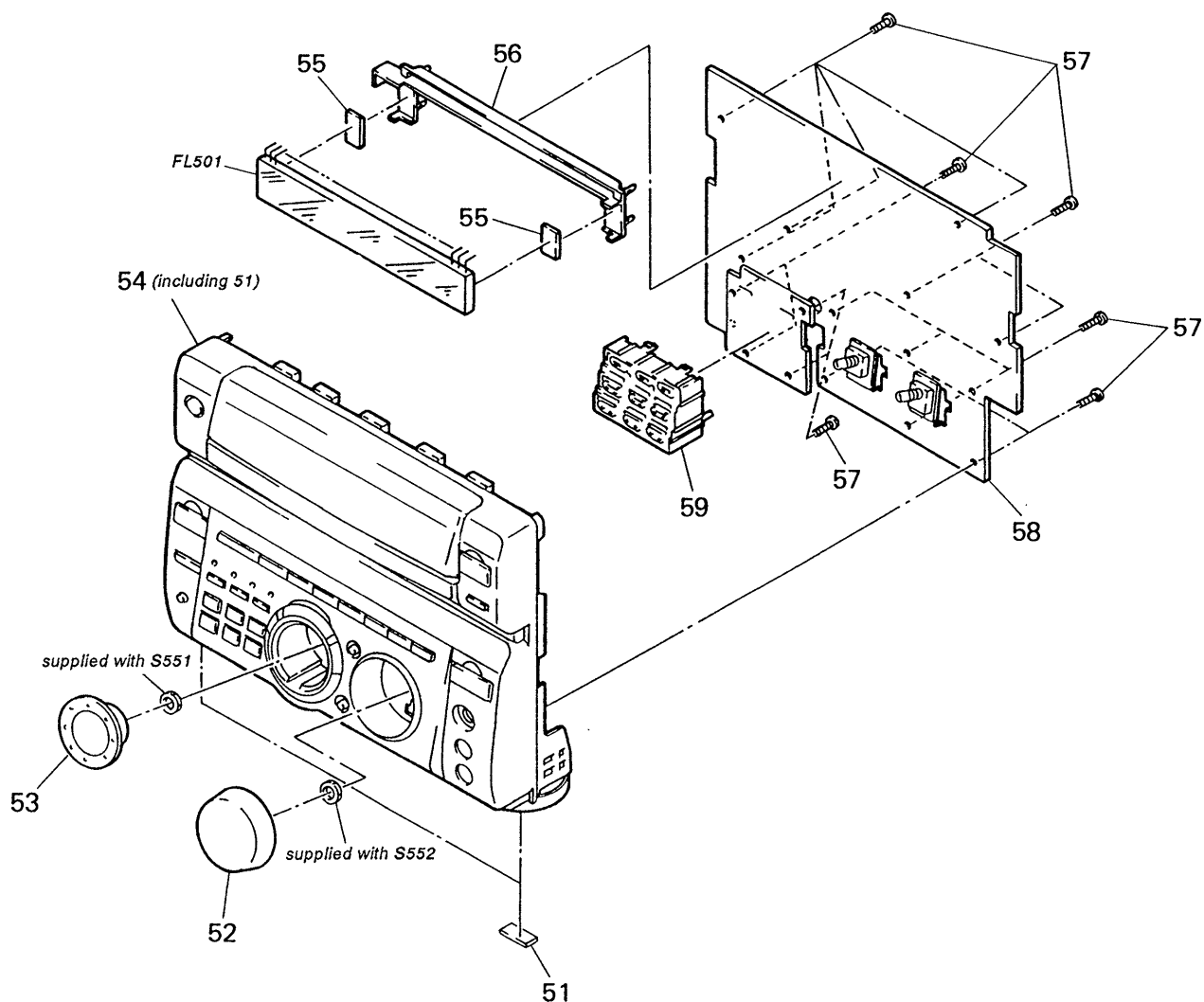
6-1. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
1	4-978-037-11	KNOB (M)	
2	3-704-366-01	SCREW (CASE) (M3X8)	
3	4-979-348-71	CASE (E, EA, HK, AR, TH, AUS, JE)	
3	4-979-348-91	CASE (MY, SP, MX)	
* 4	1-658-765-11	TRANSFORMER B BOARD	
5	1-533-293-11	FUSE HOLDER	
* 6	1-658-764-11	TRANSFORMER A BOARD	
* 7	3-703-244-00	BUSHING (2104), CORD	
7	4-966-266-11	BUSHING (S) (FBS002), CORD	(EA, MX, MY, SP, HK, AUS)
			(E, AR, TH, JE)
* 8	4-978-033-11	PLATE, JACK (E, EA, AR, JE)	
* 8	4-978-033-31	PLATE, JACK (AUS)	
* 8	4-978-033-41	PLATE, JACK (HK)	
* 8	4-978-033-51	PLATE, JACK (MX, MY, SP)	
* 8	4-980-482-01	PLATE, JACK (TH)	
* 9	4-949-235-01	HOOK	
10	7-621-849-00	SCREW, TAPPING	
* 11	A-4303-499-A	TCB BOARD, COMPLETE (E3, EA3, MX, MY, SP, HK)	
* 11	A-4303-525-A	TCB BOARD, COMPLETE (E2, AUS, AR, TH)	
* 11	A-4303-528-A	TCB BOARD, COMPLETE (JE)	
* 12	4-942-204-01	PLATE, GROUND	
* 13	A-4378-812-A	MAIN BOARD, COMPLETE	(E, EA, HK, AR, TH, AUS, JE)
* 13	A-4389-119-A	MAIN BOARD, COMPLETE (MY)	
* 13	A-4389-121-A	MAIN BOARD, COMPLETE (SP, MX)	
* 14	A-4378-813-A	POWER AMP BOARD, COMPLETE	(E, EA, HK, AR, TH, AUS, JE)

Ref. No.	Part No.	Description	Remark
* 14	A-4389-120-A	POWER AMP BOARD, COMPLETE (MY)	
* 14	A-4389-122-A	POWER AMP BOARD, COMPLETE (SP, MX)	
15	4-970-381-01	FOOT (REAR)	
* 16	4-880-403-11	HEAT SINK	
* 17	1-659-506-11	V. SW BOARD (EXCEPT AUS, TH)	
18	1-569-007-11	ADAPTER, CONVERSION 2P (E3, JE)	
18	1-569-008-11	ADAPTER, CONVERSION 2P (EA, SP, MX)	
18	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (HK)	
* 19	1-660-130-11	SURROUND BOARD	
20	3-531-576-01	RIVET (MX, MY, SP)	
* 21	4-979-688-01	COVER (MX, MY, SP)	
	CNP801	1-574-805-11 CORD, POWER (EA, MX, MY, SP, HK, AR)	
	CNP801	1-574-902-11 CORD, POWER (E, TH, JE)	
	CNP801	1-696-847-11 CORD, POWER (AUS)	
	F851	1-532-203-00 FUSE, TIME LAG (2A 250V) (AUS, TH)	
	F851	1-532-237-00 FUSE, TIME LAG (3.15A 250V) (MX, MY, SP)	
	F851	1-532-350-00 FUSE, TIME LAG (4A 250V)	(EXCEPT MX, MY, SP, AUS, TH)
	F852	1-532-203-00 FUSE, TIME LAG (2A 250V)	(EXCEPT AUS, TH, MX, MY, SP)
	F852	1-532-259-00 FUSE, TIME LAG (1.6A 250V) (MX, MY, SP)	
	F853	1-532-237-00 FUSE, TIME LAG (3.15A 250V)	
	F854	1-532-237-00 FUSE, TIME LAG (3.15A 250V)	
	F855	1-532-237-00 FUSE, TIME LAG (3.15A 250V)	
	F856	1-532-237-00 FUSE, TIME LAG (3.15A 250V)	
	T801	1-429-257-11 TRANSFORMER, POWER	

6-2. FRONT CABINET SECTION



Ref.No.	Part No.	Description	Remark
51	4-930-336-21	FOOT (FELT)	
52	4-978-034-11	KNOB (V) (VOLUME)	
53	4-978-035-11	KNOB (J) (JOG)	
54	X-4946-511-1	PANEL ASSY, FRONT	
* 55	4-932-810-01	CUSHION (FL)	
* 56	4-971-014-01	HOLDER, FL TUBE	
57	4-951-620-01	SCREW (2.6×8), +BVTP	

Ref.No.	Part No.	Description	Remark
* 58	A-4378-809-A	PANEL BOARD, COMPLETE (E3, EA, MY, SP, HK, MX, TH)	
* 58	A-4389-018-A	PANEL BOARD, COMPLETE (AUS)	
* 58	A-4389-214-A	PANEL BOARD, COMPLETE (E2, AR)	
* 58	A-4389-215-A	PANEL BOARD, COMPLETE (JE)	
* 59	4-978-036-01	HOUSE, LAMP	
FL501	1-517-483-11	INDICATOR TUBE, FLUORESCENT	

SECTION 7 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.
- RESISTORS
All resistors are in ohms
METAL : Metal-film resistor
METAL OXIDE : Metal oxide-film resistor
F : nonflammable

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

● SEMICONDUCTORS

In each case, u : μ , for example :

uA.... : μ A.... , uPA.... : μ PA....

uPB.... : μ PB.... , uPC.... : μ PC....

uPD.... : μ PD....

● CAPACITORS

uF : μ F

● COILS

uH : μ H

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

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

● Abbreviation

EA : Saudi Arabia

JE : Tourist

HK : Hong Kong

AR : Argentine

SP : Singapore

MX : Mexican

MY : Malaysia

TH : Thailand

AUS : Australian

Ref.No.	Part No.	Description	Remark
*	A-4378-812-A	MAIN BOARD, COMPLETE (E, EA, HK, AR, TH, AUS, JE)	
*	A-4389-119-A	MAIN BOARD, COMPLETE (MY)	
*	A-4389-121-A	MAIN BOARD, COMPLETE (MX, SP)	

*	4-880-403-11	HEAT SINK	
	7-682-548-04	SCREW +BVTT 3×8 (S)	
		< CAPACITOR >	
C101	1-136-167-00	FILM 0.15uF 5% 50V	
C102	1-102-074-00	CERAMIC 0.001uF 10% 50V	
C103	1-124-464-11	ELECT 0.22uF 20% 50V	
C104	1-124-464-11	ELECT 0.22uF 20% 50V	
C105	1-136-163-00	FILM 0.068uF 5% 50V	
C106	1-136-163-00	FILM 0.068uF 5% 50V	
C107	1-136-156-00	FILM 0.018uF 5% 50V	
C108	1-136-156-00	FILM 0.018uF 5% 50V	
C109	1-102-126-00	CERAMIC 0.0056uF 10% 50V	
C110	1-164-093-11	CERAMIC 0.0047uF 10% 25V	
C111	1-164-093-11	CERAMIC 0.0047uF 10% 25V	
C112	1-126-963-11	ELECT 4.7uF 20% 50V	
C113	1-126-963-11	ELECT 4.7uF 20% 50V	
C114	1-136-166-00	FILM 0.12uF 5% 50V	
C115	1-136-166-00	FILM 0.12uF 5% 50V	
C116	1-126-961-11	ELECT 2.2uF 20% 50V	
C117	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C118	1-124-907-11	ELECT 10uF 20% 50V	
C119	1-126-963-11	ELECT 4.7uF 20% 50V	
C121	1-126-963-11	ELECT 4.7uF 20% 50V	
C122	1-124-903-11	ELECT 1uF 20% 50V	
C134	1-124-907-11	ELECT 10uF 20% 50V	
C135	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C136	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C137	1-124-907-11	ELECT 10uF 20% 50V	
C138	1-124-907-11	ELECT 10uF 20% 50V	
C139	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C153	1-124-464-11	ELECT 0.22uF 20% 50V	
C154	1-124-464-11	ELECT 0.22uF 20% 50V	
C155	1-136-163-00	FILM 0.068uF 5% 50V	
C156	1-136-163-00	FILM 0.068uF 5% 50V	
C157	1-136-156-00	FILM 0.018uF 5% 50V	
C158	1-136-156-00	FILM 0.018uF 5% 50V	

Ref.No.	Part No.	Description	Remark
C159	1-102-126-00	CERAMIC 0.0056uF 10% 50V	
C160	1-164-093-11	CERAMIC 0.0047uF 10% 25V	
C161	1-164-093-11	CERAMIC 0.0047uF 10% 25V	
C162	1-126-963-11	ELECT 4.7uF 20% 50V	
C163	1-126-963-11	ELECT 4.7uF 20% 50V	
C164	1-136-166-00	FILM 0.12uF 5% 50V	
C165	1-136-166-00	FILM 0.12uF 5% 50V	
C166	1-126-961-11	ELECT 2.2uF 20% 50V	
C167	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C168	1-124-907-11	ELECT 10uF 20% 50V	
C169	1-126-963-11	ELECT 4.7uF 20% 50V	
C171	1-126-963-11	ELECT 4.7uF 20% 50V	
C172	1-124-903-11	ELECT 1uF 20% 50V	
C701	1-162-286-31	CERAMIC 220PF 10% 50V	
C702	1-126-963-11	ELECT 4.7uF 20% 50V	
C731	1-124-907-11	ELECT 10uF 20% 50V	
C732	1-124-907-11	ELECT 10uF 20% 50V	
C738	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C739	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C751	1-162-286-31	CERAMIC 220PF 10% 50V	
C752	1-126-963-11	ELECT 4.7uF 20% 50V	
C771	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C772	1-126-961-11	ELECT 2.2uF 20% 50V	
C773	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C774	1-162-215-31	CERAMIC 47PF 5% 50V	
C775	1-162-290-31	CERAMIC 470PF 10% 50V	
C776	1-124-902-00	ELECT 0.47uF 20% 50V	
C778	1-162-215-31	CERAMIC 47PF 5% 50V	
C779	1-162-282-31	CERAMIC 100PF 10% 50V	
C780	1-126-961-11	ELECT 2.2uF 20% 50V	
C781	1-124-477-11	ELECT 47uF 20% 25V	
C782	1-124-477-11	ELECT 47uF 20% 25V	
C801	1-164-159-11	CERAMIC 0.1uF 50V	
C802	1-164-159-11	CERAMIC 0.1uF 50V	
C803	1-126-974-11	ELECT 3300uF 20% 50V	
C804	1-126-974-11	ELECT 3300uF 20% 50V	
C807	1-126-968-11	ELECT 100uF 20% 35V	
C808	1-126-967-11	ELECT 47uF 20% 35V	
C809	1-124-907-11	ELECT 10uF 20% 50V	
C810	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C811	1-104-665-11	ELECT 100uF 20% 16V	
C812	1-104-664-11	ELECT 47uF 20% 10V	

Ref.No.	Part No.	Description	Remark			
C813	1-104-664-11	ELECT	47uF	20%	10V	
C816-819						
	1-104-664-11	ELECT	47uF	20%	10V	
C820	1-136-165-00	FILM	0. 1uF	5%	50V	
C821	1-136-165-00	FILM	0. 1uF	5%	50V	
C822	1-162-306-11	CERAMIC	0. 01uF	30%	16V	
C823	1-162-306-11	CERAMIC	0. 01uF	30%	16V	
C826-829						
	1-162-306-11	CERAMIC	0. 01uF	30%	16V	
C831	1-124-636-00	ELECT	3300uF	20%	25V	
C832	1-124-636-00	ELECT	3300uF	20%	25V	
C852	1-104-666-11	ELECT	220uF	20%	6. 3V	
C853	1-104-666-11	ELECT	220uF	20%	6. 3V	
C858	1-124-443-00	ELECT	100uF	20%	10V	
C859	1-126-961-11	ELECT	2. 2uF	20%	50V	
C860	1-124-907-11	ELECT	10uF	20%	50V	
C861	1-164-159-11	CERAMIC	0. 1uF		50V	
C1031	1-124-464-11	ELECT	0. 22uF	20%	50V	
< CONNECTOR >						
CN103	1-774-289-11	PIN, CONNECTOR (PC BOARD) 15P				
CN105	1-774-338-11	SOCKET, CONNECTOR (PC BOARD) 18P				
CN106	1-774-337-11	SOCKET, CONNECTOR (PC BOARD) 16P				
CN802	1-691-773-11	PLUG (MICRO CONNECTOR) 11P				
* CNP701	1-569-624-11	SOCKET, CONNECTOR 17P (SYSTEM CONTROL 1)				
CNP702	1-566-857-11	SOCKET, CONNECTOR 7P (SYSTEM CONTROL 2)				
< DIODE >						
D701	8-719-200-82	DIODE 11ES2				
D702	8-719-200-82	DIODE 11ES2				
D801	8-719-302-38	DIODE RBV-602-01				
D804	8-719-011-09	DIODE UZ-27BSD-TP				
D805	8-719-010-52	DIODE UZ-7. 5BS-TP				
D807	8-719-013-05	DIODE UZ-6. 8BSC-TP				
D808	8-719-010-52	DIODE UZ-7. 5BS-TP				
D809	8-719-987-63	DIODE 1N4148M				
D810	8-719-987-63	DIODE 1N4148M				
D811-814						
	8-719-200-02	DIODE 10E2				
D821	8-719-987-63	DIODE 1N4148M				
D824	8-719-200-82	DIODE 11ES2				
D840	8-719-987-63	DIODE 1N4148M				
D841	8-719-987-63	DIODE 1N4148M				
D852	8-719-987-63	DIODE 1N4148M				
D1031	8-719-987-63	DIODE 1N4148M				
< IC >						
IC101	8-759-634-51	IC M5218AP				

Ref.No.	Part No.	Description	Remark			
IC105	8-759-331-39	IC M62427FP				
IC107	8-759-000-49	IC MC14066BCP				
IC701	8-759-000-48	IC MC14052BCP				
IC770	8-759-634-51	IC M5218AP				
IC801	8-759-231-58	IC TA7812S				
IC850	8-759-111-68	IC uPC1237HA				
< JACK >						
J102	1-507-854-00	JACK, PHONE (PHONES)				
J701	1-565-258-11	JACK, PIN 4P (MD)				
J702	1-507-854-00	JACK, PHONE (MIX MIC)				
< JUMPER RESISTOR >						
* JW257-268						
	1-535-730-21	LEAD, JUMPER (OFC)				
< TRANSISTOR >						
Q106	8-729-620-05	TRANSISTOR 2SC2603-EF				
Q190	8-729-900-61	TRANSISTOR DTA114ES				
Q191	8-729-141-26	TRANSISTOR 2SC3622A-LK				
Q192	8-729-141-26	TRANSISTOR 2SC3622A-LK				
Q801	8-729-118-01	TRANSISTOR 2SB1116				
Q802	8-729-209-15	TRANSISTOR 2SD2012				
Q804	8-729-209-15	TRANSISTOR 2SD2012				
Q805	8-729-141-83	TRANSISTOR 2SB1094-LK				
Q810	8-729-900-80	TRANSISTOR DTC114ES				
Q856	8-729-900-89	TRANSISTOR DTC144ES				
Q857	8-729-900-63	TRANSISTOR DTA124ES				
Q1001	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1051	8-729-119-78	TRANSISTOR 2SC2785-HFE				
< RESISTOR >						
R101-103						
	1-249-429-11	CARBON 10K 5% 1/4W				
R104	1-249-437-11	CARBON 47K 5% 1/4W				
R105	1-249-437-11	CARBON 47K 5% 1/4W				
R106	1-249-416-11	CARBON 820 5% 1/4W				
R107	1-249-416-11	CARBON 820 5% 1/4W				
R108	1-247-887-00	CARBON 220K 5% 1/4W				
R109	1-249-421-11	CARBON 2. 2K 5% 1/4W				
R110	1-249-417-11	CARBON 1K 5% 1/4W				
R111	1-249-441-11	CARBON 100K 5% 1/4W				
R112	1-249-425-11	CARBON 4. 7K 5% 1/4W				
R113	1-249-435-11	CARBON 33K 5% 1/4W				
R114	1-249-441-11	CARBON 100K 5% 1/4W				
R124	1-249-437-11	CARBON 47K 5% 1/4W				
R125	1-247-807-31	CARBON 100 5% 1/4W				
R126	1-247-883-00	CARBON 150K 5% 1/4W				

MAIN

Ref.No.	Part No.	Description	Remark		
R129	1-247-887-00	CARBON	220K	5%	1/4W
R135	1-247-807-31	CARBON	100	5%	1/4W
R136-140	1-247-807-31	CARBON	100	5%	1/4W
R143-145	1-247-807-31	CARBON	100	5%	1/4W
R147-150	1-247-807-31	CARBON	100	5%	1/4W
R151	1-249-437-11	CARBON	47K	5%	1/4W
R152	1-249-437-11	CARBON	47K	5%	1/4W
R156	1-249-416-11	CARBON	820	5%	1/4W
R157	1-249-416-11	CARBON	820	5%	1/4W
R158	1-247-887-00	CARBON	220K	5%	1/4W
R159	1-249-421-11	CARBON	2. 2K	5%	1/4W
R160	1-249-417-11	CARBON	1K	5%	1/4W
R161	1-249-441-11	CARBON	100K	5%	1/4W
R162	1-249-425-11	CARBON	4. 7K	5%	1/4W
R163	1-249-435-11	CARBON	33K	5%	1/4W
R164	1-249-441-11	CARBON	100K	5%	1/4W
R172	1-249-429-11	CARBON	10K	5%	1/4W
R173	1-249-429-11	CARBON	10K	5%	1/4W
R174	1-249-437-11	CARBON	47K	5%	1/4W
R175	1-249-429-11	CARBON	10K	5%	1/4W
R176	1-247-883-00	CARBON	150K	5%	1/4W
R177	1-249-429-11	CARBON	10K		1/4W
R181-183	1-247-807-31	CARBON	100	5%	1/4W
R185-189	1-247-807-31	CARBON	100	5%	1/4W
R190	1-249-441-11	CARBON	100K	5%	1/4W
R191	1-247-807-31	CARBON	100	5%	1/4W
R192	1-249-425-11	CARBON	4. 7K	5%	1/4W
R193	1-247-807-31	CARBON	100	5%	1/4W
R194	1-247-807-31	CARBON	100	5%	1/4W
R195	1-249-425-11	CARBON	4. 7K	5%	1/4W
R196	1-247-807-31	CARBON	100	5%	1/4W
R702	1-249-425-11	CARBON	4. 7K	5%	1/4W
R703	1-249-427-11	CARBON	6. 8K	5%	1/4W
R705	1-247-807-31	CARBON	100	5%	1/4W
R706	1-249-417-11	CARBON	1K	5%	1/4W
R707	1-249-441-11	CARBON	100K	5%	1/4W
R709	1-249-429-11	CARBON	10K	5%	1/4W
R710	1-249-417-11	CARBON	1K	5%	1/4W
R752	1-249-425-11	CARBON	4. 7K	5%	1/4W
R753	1-249-427-11	CARBON	6. 8K	5%	1/4W
R755	1-247-807-31	CARBON	100	5%	1/4W
R756	1-249-417-11	CARBON	1K	5%	1/4W
R757	1-249-441-11	CARBON	100K	5%	1/4W
R759	1-249-429-11	CARBON	10K	5%	1/4W

Ref.No.	Part No.	Description	Remark		
R760	1-249-417-11	CARBON	1K	5%	1/4W
R761-763	1-247-807-31	CARBON	100	5%	1/4W
R771	1-249-429-11	CARBON	10K	5%	1/4W
R772	1-249-417-11	CARBON	1K	5%	1/4W
R773	1-249-441-11	CARBON	100K	5%	1/4W
R774	1-249-417-11	CARBON	1K	5%	1/4W
R775	1-249-429-11	CARBON	10K	5%	1/4W
R777	1-249-423-11	CARBON	3. 3K	5%	1/4W
R779	1-249-441-11	CARBON	100K	5%	1/4W
R780	1-247-807-31	CARBON	100	5%	1/4W
△R801	1-212-982-00	FUSIBLE	100	5%	1/2W F
R804	1-249-417-11	CARBON	1K	5%	1/4W
R805	1-249-417-11	CARBON	1K	5%	1/4W
R807	1-249-417-11	CARBON	1K	5%	1/4W
△R808	1-212-853-00	FUSIBLE	6. 8	5%	1/4W F
R809	1-249-417-11	CARBON	1K	5%	1/4W
△R810	1-212-934-00	FUSIBLE	1	5%	1/2W F
△R811	1-212-853-00	FUSIBLE	6. 8	5%	1/4W F
△R813	1-212-946-11	FUSIBLE	3. 3	5%	1/2W F
R818	1-249-417-11	CARBON	1K	5%	1/4W
R819	1-249-417-11	CARBON	1K	5%	1/4W
R840	1-249-429-11	CARBON	10K	5%	1/4W
R851	1-249-429-11	CARBON	10K	5%	1/4W
R853	1-249-397-11	CARBON	22	5%	1/4W
R854	1-249-441-11	CARBON	100K	5%	1/4W
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
R859	1-249-439-11	CARBON	68K	5%	1/4W
R860	1-249-425-11	CARBON	4. 7K	5%	1/4W
R944	1-249-417-11	CARBON	1K	5%	1/4W
R1002	1-249-429-11	CARBON	10K	5%	1/4W
R1013	1-249-425-11	CARBON	4. 7K	5%	1/4W
R1021	1-249-429-11	CARBON	10K	5%	1/4W
R1031	1-247-903-00	CARBON	1M		1/4W
R1032	1-249-412-11	CARBON	390	5%	1/4W
R1033	1-249-433-11	CARBON	22K		1/4W
R1034	1-249-433-11	CARBON	22K		1/4W
R1063	1-249-425-11	CARBON	4. 7K	5%	1/4W
R1071	1-249-429-11	CARBON	10K	5%	1/4W

< VARIABLE RESISTOR >

RV771 1-223-672-11 RES, VAR, CARBON 10K (MIC LEVEL)

< RELAY >

RY801 1-515-921-11 RELAY (12V)

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

MAIN

PANEL

KEY

JOG ENCODER

VOL ENCODER

Ref.No.	Part No.	Description	Remark
< TERMINAL >			
TB901	1-537-240-31	TERMINAL BOARD (CHECKER PIN) (SPEAKER)	

*	A-4389-214-A	PANEL BOARD, COMPLETE (E2, AR)	
*	A-4378-809-A	PANEL BOARD, COMPLETE	
		(E3, EA, MX, MY, SP, HK, TH)	
*	A-4389-018-A	PANEL BOARD, COMPLETE (AUS)	
*	A-4389-215-A	PANEL BOARD, COMPLETE (JE)	

		KEY BOARD	
		JOG ENCODER BOARD	
		VOL ENCODER BOARD	

< CAPACITOR >			
C501	1-104-905-11	CAPACITOR 0.22F	5. 5V
C502	1-163-059-00	CERAMIC CHIP 0.01uF	10% 50V
C504	1-164-159-11	CERAMIC 0.1uF	50V
C505	1-164-159-11	CERAMIC 0.1uF	50V
C506	1-126-968-11	ELECT 100uF	20% 35V
C507-510			
	1-162-306-11	CERAMIC 0.01uF	30% 16V
C511	1-126-968-11	ELECT 100uF	20% 6. 3V
C530	1-162-306-11	CERAMIC 0.01uF	30% 16V
C531	1-162-306-11	CERAMIC 0.01uF	30% 16V
C540	1-164-159-11	CERAMIC 0.1uF	50V
C541	1-126-233-11	ELECT 22uF	20% 50V
C542	1-164-159-11	CERAMIC 0.1uF	50V
C543	1-162-206-31	CERAMIC 20PF	5% 50V
C544	1-164-027-11	CERAMIC 22PF	5% 50V
C545	1-164-159-11	CERAMIC 0.1uF	50V
C5001	1-101-006-00	CERAMIC 0.047uF	50V
C5002	1-124-464-11	ELECT 0.22uF	20% 50V
C5003	1-101-004-00	CERAMIC 0.01uF	50V
C5004	1-130-473-00	MYLAR 0.0015uF	5% 50V
C5005	1-136-155-00	FILM 0.015uF	5% 50V
C5006	1-164-161-11	CERAMIC CHIP 0.0022uF	10% 100V
C5007	1-163-003-11	CERAMIC CHIP 330PF	10% 50V
C5020	1-163-031-11	CERAMIC CHIP 0.01uF	50V
C5021	1-124-907-11	ELECT 10uF	20% 50V
C5031	1-124-463-00	ELECT 0.1uF	20% 50V
C5032-5034			
	1-163-038-91	CERAMIC CHIP 0.1uF	25V
< CONNECTOR >			
* CN501	1-774-344-11	PLUG, CONNECTOR (PC BOARD) 18P	
* CN502	1-774-343-11	PLUG, CONNECTOR (PC BOARD) 16P	

Ref.No.	Part No.	Description	Remark
< DIODE >			
D503	8-719-014-73	LED UZP-5.6BC-TP	
D510	8-719-046-39	LED SEL5821A-TH15 (<K/>D>)	
D511	8-719-046-39	LED SEL5821A-TH15 (<K/>D>)	
D512	8-719-046-39	LED SEL5821A-TH15 (+/-)	
D513	8-719-046-39	LED SEL5821A-TH15 (+/-)	
D514	8-719-812-44	LED TLO124 (ENTER/NEXT)	
D515	8-719-812-44	LED TLO124 (EFFECT ON/OFF)	
D516	8-719-046-42	LED SEL5421E-TH8F (TUNER/BAND)	
D518	8-719-046-39	LED SEL5821A-TH15 (TUNER)	
D519	8-719-046-39	LED SEL5821A-TH15 (EFFECT)	
D520	8-719-057-62	LED SEL1810D-TP3 (TIMER/SET)	
D521	8-719-311-61	LED SEL2810D-D (REPEAT)	
D522	8-719-311-61	LED SEL2810D-D (CLIP A)	
D523	8-719-311-61	LED SEL2810D-D (CLIP C)	
D524	8-719-311-61	LED SEL2810D-D (CLIP ERASE)	
D525	8-719-311-61	LED SEL2810D-D (CLIP ERASE)	
D526	8-719-311-61	LED SEL2810D-D (1/ALL DISCS)	
D527	8-719-311-61	LED SEL2810D-D (1/ALL DISCS)	
D528	8-719-046-39	LED SEL5821A-TH15 (TIMER)	
D529	8-719-046-39	LED SEL5821A-TH15 (← →)	
D530	8-719-046-39	LED SEL5821A-TH15 (← →)	
D531	8-719-046-42	LED SEL5421E-TH8F (TIMER)	
D532	8-719-046-39	LED SEL5821A-TH15 (GROOVE)	
D534	8-719-057-62	LED SEL1810D-TP3 (TUNER MEMORY)	
D535	8-719-057-62	LED SEL1810D-TP3 (TUNING MODE)	
D536	8-719-057-62	LED SEL1810D-TP3 (CLOCK SET)	
D537	8-719-057-62	LED SEL1810D-TP3 (TIMER SELECT)	
D538	8-719-046-39	LED SEL5821A-TH15 (CD)	
D539	8-719-311-61	LED SEL2810D-D (CLIP B)	
D540	8-719-311-61	LED SEL2810D-D (CLIP MODE)	
D541	8-719-311-61	LED SEL2810D-D (CLIP MODE)	
D542	8-719-311-61	LED SEL2810D-D (EDIT)	
D543	8-719-311-61	LED SEL2810D-D (PLAY MODE)	
D544	8-719-311-61	LED SEL2810D-D (PLAY MODE)	
D550	8-719-200-82	DIODE 11ES2	
D551-555			
	8-719-987-63	DIODE 1N4148M	
D556	8-719-010-48	DIODE UZ-6.8BS	
D557	8-719-987-63	DIODE 1N4148M	
D5001-5004			
	8-719-988-62	DIODE 1SS355	
D5010	8-719-987-63	DIODE 1N4148M	
< INDICATOR TUBE >			
FL501	1-517-483-11	INDICATOR TUBE, FLUORESCENT	

PANEL

KEY

JOG ENCODER

VOL ENCODER

Ref. No.	Part No.	Description	Remark
< IC >			
IC501	8-759-362-86	IC ASD0204GF-011-3BA	
IC502	8-759-332-18	IC GPIU27XB	
IC503	8-759-165-82	IC PST600E-T	
IC504	8-759-372-64	IC M66313FP-200C	
< JUMPER RESISTOR >			
JR505	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR506	1-216-296-91	METAL CHIP 0 5% 1/8W	
JR508	1-216-296-91	METAL CHIP 0 5% 1/8W	
JR509	1-216-296-91	METAL CHIP 0 5% 1/8W	
JR510	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR512	1-216-296-91	METAL CHIP 0 5% 1/8W	
JR515-520			
	1-216-296-91	METAL CHIP 0 5% 1/8W	
JR521	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR522	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR523-526			
	1-216-296-91	METAL CHIP 0 5% 1/8W	
JR529-535			
	1-216-296-91	METAL CHIP 0 5% 1/8W	
JR536-538			
	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR539-541			
	1-216-296-91	METAL CHIP 0 5% 1/8W	
JR543	1-216-296-91	METAL CHIP 0 5% 1/8W	
JR544	1-216-296-91	METAL CHIP 0 5% 1/8W	
JR546	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR547	1-216-296-91	METAL CHIP 0 5% 1/8W	
JR552-556			
	1-216-296-91	METAL CHIP 0 5% 1/8W	
JR558-562			
	1-216-296-91	METAL CHIP 0 5% 1/8W	
JR563	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR564	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR565-567			
	1-216-296-91	METAL CHIP 0 5% 1/8W	
JR572	1-216-296-91	METAL CHIP 0 5% 1/8W	
JR573	1-216-296-91	METAL CHIP 0 5% 1/8W	
JR574	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR575	1-216-296-91	METAL CHIP 0 5% 1/8W	
JR576	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR580	1-216-296-91	METAL CHIP 0 5% 1/8W	
JR581	1-216-296-91	METAL CHIP 0 5% 1/8W	
JR582	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR583	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR584-591			
	1-216-296-91	METAL CHIP 0 5% 1/8W	
JR595	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR596	1-216-295-91	METAL CHIP 0 5% 1/10W	

Ref. No.	Part No.	Description	Remark
JR597	1-216-296-91	METAL CHIP 0 5% 1/8W	
JR600	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR601	1-216-296-91	METAL CHIP 0 5% 1/8W	
< JUMPER RESISTOR >			
* JW501-506			
	1-535-730-21	LEAD, JUMPER (OFC)	
* JW681	1-535-730-21	LEAD, JUMPER (OFC)	
* JW682	1-535-730-21	LEAD, JUMPER (OFC)	
< COIL >			
L501	1-410-509-11	INDUCTOR 10uH	
L502	1-410-509-11	INDUCTOR 10uH	
< TRANSISTOR >			
Q501	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q502	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q503-506			
	8-729-421-22	TRANSISTOR UN2211	
Q531	8-729-118-01	TRANSISTOR 2SB1116	
Q532	8-729-118-01	TRANSISTOR 2SB1116	
< RESISTOR >			
R501	1-249-401-11	CARBON 47 5% 1/4W	
R502	1-249-403-11	CARBON 68 5% 1/4W	
R503	1-249-403-11	CARBON 68 5% 1/4W	
R504	1-247-807-31	CARBON 100 5% 1/4W	
R505	1-249-407-11	CARBON 150 5% 1/4W	
R506	1-249-409-11	CARBON 220 5% 1/4W	
R507	1-249-411-11	CARBON 330 5% 1/4W	
R508	1-249-411-11	CARBON 330 5% 1/4W	
R509	1-249-413-11	CARBON 470 5% 1/4W	
R510	1-249-415-11	CARBON 680 5% 1/4W	
R511	1-249-417-11	CARBON 1K 5% 1/4W	
R512	1-249-419-11	CARBON 1.5K 5% 1/4W	
R513	1-249-421-11	CARBON 2.2K 5% 1/4W	
R514	1-249-423-11	CARBON 3.3K 5% 1/4W	
R516	1-249-401-11	CARBON 47 5% 1/4W	
R517	1-249-403-11	CARBON 68 5% 1/4W	
R518	1-249-403-11	CARBON 68 5% 1/4W	
R519	1-247-807-31	CARBON 100 5% 1/4W	
R520	1-249-407-11	CARBON 150 5% 1/4W	
R521	1-249-409-11	CARBON 220 5% 1/4W	
R522	1-216-037-00	METAL CHIP 330 5% 1/10W	
R523	1-216-037-00	METAL CHIP 330 5% 1/10W	
R524	1-216-041-00	METAL CHIP 470 5% 1/10W	
R525	1-216-045-00	METAL CHIP 680 5% 1/10W	
R526	1-216-049-91	METAL GLAZE 1K 5% 1/10W	

PANEL

KEY

JOG ENCODER

VOL ENCODER

Ref. No.	Part No.	Description	Remark		
R527	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R528	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R529	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R530	1-249-397-11	CARBON	22	5%	1/4W
R531	1-249-397-11	CARBON	22	5%	1/4W
R532	1-247-807-31	CARBON	100	5%	1/4W
R533	1-249-401-11	CARBON	47	5%	1/4W
R534	1-249-403-11	CARBON	68	5%	1/4W
R536	1-249-437-11	CARBON	47K	5%	1/4W
R537	1-249-433-11	CARBON	22K	5%	1/4W
R545-550					
	1-216-170-00	METAL GLAZE	68	5%	1/8W
R551	1-216-158-00	METAL GLAZE	22	5%	1/8W
R552	1-216-158-00	METAL GLAZE	22	5%	1/8W
R553	1-216-170-00	METAL GLAZE	68	5%	1/8W
R554	1-249-397-11	CARBON	22	5%	1/4W
R555	1-249-403-11	CARBON	68	5%	1/4W
R556	1-249-403-11	CARBON	68	5%	1/4W
R558-563					
	1-216-170-00	METAL GLAZE	68	5%	1/8W
R564	1-216-158-00	METAL GLAZE	22	5%	1/8W
R565	1-216-170-00	METAL GLAZE	68	5%	1/8W
R566	1-216-158-00	METAL GLAZE	22	5%	1/8W
R568	1-249-425-11	CARBON	4.7K	5%	1/4W
R569	1-249-429-11	CARBON	10K	5%	1/4W
R570	1-249-393-11	CARBON	10	5%	1/4W
R576	1-249-429-11	CARBON	10K	5%	1/4W
R577-580					
	1-247-807-31	CARBON	100	5%	1/4W
R581	1-216-025-91	METAL GLAZE	100	5%	1/10W
R582	1-216-025-91	METAL GLAZE	100	5%	1/10W
R583-587					
	1-247-807-31	CARBON	100	5%	1/4W
R592	1-247-807-31	CARBON	100	5%	1/4W
R593	1-247-807-31	CARBON	100	5%	1/4W
R594	1-216-174-00	METAL GLAZE	100	5%	1/8W
R596-599					
	1-247-807-31	CARBON	100	5%	1/4W
R5001-5003					
	1-216-085-00	METAL CHIP	33K	5%	1/10W
R5004	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R5009-5012					
	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R5013-5016					
	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R5017	1-249-429-11	CARBON	10K	5%	1/4W
R5018	1-249-429-11	CARBON	10K	5%	1/4W
R5019	1-249-421-11	CARBON	2.2K	5%	1/4W
R5020-5023					
	1-249-429-11	CARBON	10K	5%	1/4W

Ref. No.	Part No.	Description	Remark		
R5026	1-216-073-00	METAL CHIP	10K	5%	1/10W
R5027	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R5028-5030					
	1-249-441-11	CARBON	100K	5%	1/4W
R5031	1-249-423-11	CARBON	3.3K	5%	1/4W (E2, AR)
R5031	1-249-427-11	CARBON	6.8K	5%	1/4W (E3, EA, MX, MY, SP, HK, TH)
R5031	1-249-433-11	CARBON	22K	5%	1/4W (AUS)
R5031	1-249-415-11	CARBON	680	5%	1/4W (JE)
R5032	1-249-429-11	CARBON	10K	5%	1/4W (E2, AR)
R5032	1-249-435-11	CARBON	33K	5%	1/4W (E3, EA, MX, MY, SP, HK, TH)
R5032	1-249-433-11	CARBON	22K	5%	1/4W (AUS)
R5032	1-249-431-11	CARBON	15K	5%	1/4W (JE)
R5033	1-249-441-11	CARBON	100K	5%	1/4W
R5038	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R5051	1-249-421-11	CARBON	2.2K	5%	1/4W
R5052	1-249-409-11	CARBON	220	5%	1/4W
R5053	1-249-409-11	CARBON	220	5%	1/4W
R5071	1-249-423-11	CARBON	3.3K	5%	1/4W
R5072	1-216-073-00	METAL CHIP	10K	5%	1/10W
R5073	1-249-423-11	CARBON	3.3K	5%	1/4W
R5074	1-216-073-00	METAL CHIP	10K	5%	1/10W
R5075	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R5076	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R5077	1-249-429-11	CARBON	10K	5%	1/4W
R5078	1-249-429-11	CARBON	10K	5%	1/4W
R5079	1-249-437-11	CARBON	47K	5%	1/4W
R5082-5084					
	1-216-073-00	METAL CHIP	10K	5%	1/10W
< SWITCH >					
S501	1-554-303-21	SWITCH, TACTILE (SYSTEM POWER)			
S502	1-554-303-21	SWITCH, TACTILE (TIMER)			
S503	1-554-303-21	SWITCH, TACTILE (SLEEP)			
S505	1-554-303-21	SWITCH, TACTILE (KARAOKE PON/MPX)			
S506	1-554-303-21	SWITCH, TACTILE (EFFECT ON/OFF)			
S507	1-554-303-21	SWITCH, TACTILE (MENU 1)			
S508	1-554-303-21	SWITCH, TACTILE (MENU 2)			
S509	1-554-303-21	SWITCH, TACTILE (MENU 3)			
S510	1-554-303-21	SWITCH, TACTILE (MENU 4)			
S511	1-554-303-21	SWITCH, TACTILE (MEMORY)			
S512	1-554-303-21	SWITCH, TACTILE (SURROUND)			
S513	1-554-303-21	SWITCH, TACTILE (FUNCTION)			
S514	1-554-303-21	SWITCH, TACTILE (DISPLAY)			
S515	1-554-303-21	SWITCH, TACTILE (TUNER/BAND)			
S517	1-554-303-21	SWITCH, TACTILE (P FILE)			
S518	1-554-303-21	SWITCH, TACTILE (DBFB)			
S519	1-554-303-21	SWITCH, TACTILE (GROOVE)			

PANEL

KEY

JOG ENCODER

VOL ENCODER

POWER AMP

Ref. No.	Part No.	Description	Remark
S520	1-554-303-21	SWITCH, TACTILE (FREQUENCY +)	
S521	1-554-303-21	SWITCH, TACTILE (ENTER/NEXT)	
S522	1-554-303-21	SWITCH, TACTILE (FREQUENCY -)	
S523	1-572-184-11	SWITCH, KEY BOARD (CLIP C)	
S524	1-572-184-11	SWITCH, KEY BOARD (CLIP B)	
S525	1-572-184-11	SWITCH, KEY BOARD (CLIP A)	
S526	1-572-184-11	SWITCH, KEY BOARD (CLIP PLAY TUNER MEMORY)	
S527	1-572-184-11	SWITCH, KEY BOARD (CLIP ERASE)	
S528	1-572-184-11	SWITCH, KEY BOARD (EDIT TUNING MODE)	
S529	1-572-184-11	SWITCH, KEY BOARD (REPEAT TIMER SELECT)	
S530	1-572-184-11	SWITCH, KEY BOARD (PLAY MODE TIMER SET)	
S531	1-572-184-11	SWITCH, KEY BOARD (1/ALL DISCS CLOCKSET)	
S551	1-473-480-11	ENCODER, ROTARY (JOG ENCODER)	
S552	1-467-869-11	ENCODER, ROTARY (VOL ENCODER)	
< VIBRATOR >			
X501	1-579-233-11	VIBRATOR, CERAMIC (5MHZ)	
X502	1-567-098-41	VIBRATOR, CRYSTAL (32.768KHZ)	

*	A-4378-813-A	POWER AMP BOARD, COMPLETE (E, EA, HK, AR, TH, AUS, JE)	
*	A-4389-120-A	POWER AMP BOARD, COMPLETE (MY)	
*	A-4389-122-A	POWER AMP BOARD, COMPLETE (MX, SP) *****	
< CAPACITOR >			
C901	1-124-927-11	ELECT 4.7uF 20% 100V	
C902	1-162-293-31	CERAMIC 820PF 10% 50V	
C903	1-162-286-31	CERAMIC 220PF 10% 50V	
C904	1-126-967-11	ELECT 47uF 20% 50V	
C905	1-126-967-11	ELECT 47uF 20% 50V	
C906	1-136-163-00	FILM 0.068uF 5% 50V	
C907	1-136-163-00	FILM 0.068uF 5% 50V	
C929	1-164-159-11	CERAMIC 0.1uF 50V	
C932	1-124-910-11	ELECT 47uF 20% 50V	
C933	1-164-159-11	CERAMIC 0.1uF 50V	
C934	1-124-122-11	ELECT 100uF 20% 50V	
C937	1-126-965-11	ELECT 22uF 20% 50V	
C938	1-126-934-11	ELECT 220uF 20% 16V	
C940	1-124-910-11	ELECT 47uF 20% 50V	
C950	1-136-161-00	FILM 0.047uF 5% 50V	
C951	1-124-927-11	ELECT 4.7uF 20% 100V	
C952	1-162-293-31	CERAMIC 820PF 10% 50V	
C953	1-162-286-31	CERAMIC 220PF 10% 50V	
C954	1-126-967-11	ELECT 47uF 20% 50V	
C955	1-126-967-11	ELECT 47uF 20% 50V	
C956	1-136-163-00	FILM 0.068uF 5% 50V	

Ref. No.	Part No.	Description	Remark
C957	1-136-163-00	FILM 0.068uF 5% 50V	
< DIODE >			
D903	8-719-987-63	DIODE 1N4148M	
D953	8-719-987-63	DIODE 1N4148M	
< IC >			
IC901	8-749-900-34	IC STK-4182MK2 (E, EA, HK, AR, TH, AUS, JE)	
IC901	8-749-920-90	IC STK-4201MK2 (MX, MY, SP)	
< TRANSISTOR >			
Q901	8-729-900-80	TRANSISTOR DTC114ES	
Q902	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q952	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
< RESISTOR >			
R121	1-249-441-11	CARBON 100K 5% 1/4W	
R171	1-249-441-11	CARBON 100K 5% 1/4W	
R901	1-249-417-11	CARBON 1K 5% 1/4W	
R902	1-249-437-11	CARBON 47K 5% 1/4W	
R903	1-249-412-11	CARBON 390 5% 1/4W	
R904	1-249-437-11	CARBON 47K 5% 1/4W	
R906-909	1-249-425-11	CARBON 4.7K 5% 1/4W	
R910	1-249-397-11	CARBON 22 5% 1/4W	
R911	1-249-397-11	CARBON 22 5% 1/4W	
R913	1-249-417-11	CARBON 1K 5% 1/4W	
R914	1-249-431-11	CARBON 15K 5% 1/4W	
R915	1-249-441-11	CARBON 100K 5% 1/4W	
△R920	1-217-151-00	METAL PLATE 0.22	F
△R932	1-212-881-11	FUSIBLE 100 5% 1/4W	F
R933-936	1-249-421-11	CARBON 2.2K 5% 1/4W	
R937	1-249-437-11	CARBON 47K 5% 1/4W	
R938	1-249-441-11	CARBON 100K 5% 1/4W	
R939	1-249-433-11	CARBON 22K 5% 1/4W	
R940	1-249-433-11	CARBON 22K 5% 1/4W	
R941	1-249-429-11	CARBON 10K 5% 1/4W	
R942	1-249-413-11	CARBON 470 5% 1/4W	
△R943	1-212-881-11	FUSIBLE 100 5% 1/4W	F
R951	1-249-417-11	CARBON 1K 5% 1/4W	
R952	1-249-437-11	CARBON 47K 5% 1/4W	
R953	1-249-412-11	CARBON 390 5% 1/4W	
R954	1-249-437-11	CARBON 47K 5% 1/4W	
R956-959	1-249-425-11	CARBON 4.7K 5% 1/4W	
R960	1-249-397-11	CARBON 22 5% 1/4W	
R961	1-249-397-11	CARBON 22 5% 1/4W	

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

POWER AMP

SURROUND

TCB

Ref. No.	Part No.	Description	Remark		
R963	1-249-417-11	CARBON	1K	5%	1/4W
R964	1-249-431-11	CARBON	15K	5%	1/4W
R965	1-249-441-11	CARBON	100K	5%	1/4W
△R970	1-217-151-00	METAL PLATE	0.22		F
△R998	1-217-641-00	FUSIBLE	4.7	5%	1/4W F (MX, MY, SP)
△R999	1-217-641-00	FUSIBLE	4.7	5%	1/4W F (MX, MY, SP)

*	1-660-130-11	SURROUND BOARD	*****		
		< CONNECTOR >			
CN902	1-564-517-11	PLUG CONNECTOR 2P			
		< TERMINAL >			
TB902	1-537-240-31	TERMINAL BOARD (SURROUND SPEAKER)			

*	A-4303-499-A	TCB BOARD, COMPLETE (E3, EA, MX, MY, SP, HK)			
*	A-4303-525-A	TCB BOARD, COMPLETE (E2, AUS, AR, TH)			
*	A-4303-528-A	TCB BOARD, COMPLETE (JE)	*****		
		< CAPACITOR >			
C1	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C2	1-126-967-11	ELECT	47uF	20%	50V
C3	1-163-038-91	CERAMIC CHIP	100000PF		
C5	1-163-031-11	CERAMIC CHIP	10000PF		
C6	1-163-038-91	CERAMIC CHIP	100000PF		
C7	1-101-004-00	CERAMIC	0.01uF		50V
C8	1-163-031-11	CERAMIC CHIP	10000PF		
C9	1-163-031-11	CERAMIC CHIP	10000PF		
C10	1-162-306-11	CERAMIC	10000PF	20%	16V
C11	1-163-038-91	CERAMIC CHIP	100000PF		(E3, EA, HK, MX, MY, SP, JE)
C11	1-216-295-91	CONDUCTOR CHIP	0		(E2, AR, TH, AUS)
C14	1-163-038-91	CERAMIC CHIP	100000PF		(E3, EA, HK, MX, MY, SP, JE)
C15	1-136-162-00	METALIZED FILM	0.056uF	5%	50V (E3, EA, HK, MX, MY, SP, JE)
C16	1-163-038-91	CERAMIC CHIP	100000PF		25V
C17	1-163-031-11	CERAMIC CHIP	10000PF		25V (E3, EA, HK, MX, MY, SP, JE)
C18	1-163-088-00	CERAMIC CHIP	5PF		50V (E3, EA, HK, MX, MY, SP, JE)
C21	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C22	1-163-031-11	CERAMIC CHIP	10000PF		
C23	1-163-235-11	CERAMIC CHIP	22PF		
C24	1-163-239-11	CERAMIC CHIP	33PF		

Ref. No.	Part No.	Description	Remark		
C26	1-126-967-11	ELECT	47uF	20%	50V
C28	1-126-967-11	ELECT	47uF	20%	50V
C29	1-162-306-11	CERAMIC	10000PF	20%	16V
C30	1-124-925-11	ELECT	2.2uF	20%	100V
C31	1-163-031-11	CERAMIC CHIP	10000PF		25V
C32	1-163-038-91	CERAMIC CHIP	100000PF		25V
C33	1-163-038-91	CERAMIC CHIP	100000PF		
C34	1-163-091-00	CERAMIC CHIP	8PF		50V
C35	1-163-038-91	CERAMIC CHIP	100000PF		
C36	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C37	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C39	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C40	1-163-031-11	CERAMIC CHIP	10000PF		
C41	1-163-031-11	CERAMIC CHIP	10000PF		
C42	1-163-038-91	CERAMIC CHIP	100000PF		
C43	1-163-038-91	CERAMIC CHIP	100000PF		
C44	1-163-031-11	CERAMIC CHIP	10000PF		
C45	1-163-038-91	CERAMIC CHIP	100000PF		
C46	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C47	1-126-967-11	ELECT	47uF	20%	50V
C48	1-163-031-11	CERAMIC CHIP	10000PF		
C49	1-124-902-00	ELECT	0.47uF	20%	50V
C50	1-124-903-11	ELECT	1.0uF	20%	50V
C51	1-124-903-11	ELECT	1.0uF	20%	50V
C52	1-126-964-11	ELECT	10uF	20%	50V
C53	1-126-964-11	ELECT	10uF	20%	50V
C54-56	1-126-157-11	ELECT	10uF	20%	16V
C57	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C58	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C59	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C60	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C61	1-126-301-11	ELECT	1uF	20%	50V
C62	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C63	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C64	1-126-967-11	CAP, ELECT	47uF	20%	50V
C66	1-126-162-11	ELECT	3.3uF	20%	50V
C67	1-126-933-11	ELECT	100uF	20%	16V
C68	1-162-306-11	CERAMIC	10000PF	20%	16V
C71	1-162-306-11	CERAMIC	10000PF	20%	16V
C72	1-126-967-11	ELECT	47uF	20%	50V
		< FILTER >			
CF1	1-567-389-11	FILTER, CERAMIC			
CF3	1-567-389-11	FILTER, CERAMIC			
		< CONNECTOR >			
CN1	1-774-292-11	HOUSING, CONNECTOR (PC BOARD) 15P			

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Ref.No.	Part No.	Description	Remark
< VARIABLE CAPACITOR >			
CV1	1-141-227-00	CAP, TRIMMER 20PF (E3, EA, HK, MX, MY, SP, JE)	
CV2	1-141-227-00	CAP, TRIMMER 20PF (E3, EA, HK, MX, MY, SP, JE)	
< DIODE >			
D1	8-719-976-30	DIODE KV1560NT (E3, EA, HK, MX, MY, SP, JE)	
D21	8-719-420-90	DIODE DTZ-TT11-5.1	
D41	8-719-016-74	DIODE ISS352-TPH3	
< FRONT END >			
FE1	1-465-673-11	FRONT END (2 BAND) (E, EA, MY, SP, HK, AR, MX, TH, AUS)	
FE1	1-693-251-11	FRONT END (JE)	
FE2	1-239-260-11	ENCAPSULATED COMPONENT (E2, AR, TH, AUS)	
FE2	1-239-262-11	ENCAPSULATED COMPONENT (E3, EA, HK, MX, MY, SP, JE)	
< IC >			
IC21	8-759-288-54	IC LC72130	
IC41	8-759-176-03	IC LA1835	
< IFT >			
IFT41	1-409-636-11	TRANSFORMER, IF (CERAMIC FILTER)	
< JUMPER RESISTOR >			
JR1	1-216-295-91	METAL GLAZE 0 5% 1/10W (E2, AR, TH, AUS)	
JR3	1-216-295-91	METAL GLAZE 0 5% 1/10W (E2, AR, TH, AUS)	
JR7	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR7	1-216-295-91	METAL GLAZE 0 5% 1/10W (E2, AR, TH, AUS)	
JR45	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR46	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR47	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR48	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR49	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR50	1-216-295-91	METAL GLAZE 0 5% 1/10W (E3, EA, HK, MX, MY, SP, JE)	
JR51	1-216-295-91	METAL GLAZE 0 5% 1/10W (E3, EA, HK, MX, MY, SP, JE)	
JR52	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR53	1-216-296-91	METAL GLAZE 0 5% 1/8W (E3, EA, HK, MX, MY, SP, JE)	
JR54	1-216-295-91	METAL GLAZE 0 5% 1/10W	

Ref.No.	Part No.	Description	Remark
< COIL >			
L1	1-410-521-11	MICRO INDUCTOR 100uH (E3, EA, HK, MX, MY, SP, JE)	
L3	1-410-521-11	MICRO INDUCTOR 100uH	
L41	1-410-119-11	MICRO INDUCTOR (EL TYPE) 1mH	
< FILTER >			
LPF41	1-239-845-11	FILTER, LOW PASS	
LPF42	1-239-845-11	FILTER, LOW PASS	
< TRANSISTOR >			
Q1-4	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L	
Q5	8-729-424-08	TRANSISTOR MUN2111T1 (E2, AR, TH, AUS)	
Q5	8-729-805-65	TRANSISTOR 2SA1344-TA (E3, EA, HK, MX, MY, SP, JE)	
Q8	8-729-033-67	TRANSISTOR 2SK211-Y-TE85L (E3, EA, HK, MX, MY, SP, JE)	
Q9	8-729-216-22	TRANSISTOR 2SA812-T1-M5M6 (E3, EA, HK, MX, MY, SP, JE)	
Q10	8-729-216-22	TRANSISTOR 2SA812-T1-M5M6 (E3, EA, HK, MX, MY, SP, JE)	
Q12-14	8-729-805-41	TRANSISTOR 2SC3398-TB (E3, EA, HK, MX, MY, SP, JE)	
< RESISTOR >			
R1	1-249-401-11	CARBON 47 5% 1/4W	
R2	1-216-037-00	METAL CHIP 330 5% 1/10W	
R3	1-216-037-00	METAL CHIP 330 5% 1/10W	
R5	1-216-037-00	METAL CHIP 330 5% 1/10W	
R6	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R7	1-216-037-00	METAL CHIP 330 5% 1/10W	
R8	1-216-037-00	METAL CHIP 330 5% 1/10W	
R9	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R10	1-216-037-00	METAL CHIP 330 5% 1/10W	
R11	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R12	1-216-037-00	METAL CHIP 330 5% 1/10W	
R13	1-216-037-00	METAL CHIP 330 5% 1/10W	
R14	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R18	1-216-065-00	METAL CHIP 4.7K 5% 1/10W (E3, EA, HK, MX, MY, SP, JE)	
R19	1-216-073-00	METAL CHIP 10K 5% 1/10W (E3, EA, HK, MX, MY, SP, JE)	
R20	1-216-121-91	METAL CHIP 1.0M 5% 1/10W (E3, EA, HK, MX, MY, SP, JE)	
R21-23	1-216-049-91	METAL CHIP 1.0K 5% 1/10W	
R24	1-216-025-91	METAL CHIP 100 5% 1/10W	
R25	1-249-417-11	CARBON 1K 5% 1/4W	
R26	1-249-437-11	CARBON 47K 5% 1/4W	
R27	1-249-429-11	CARBON 10K 5% 1/4W	

TCB

TRANSFORMER A

TRANSFORMER B

V.SW

Ref. No.	Part No.	Description	Remark
R28	1-249-417-11	CARBON	1K 5% 1/4W
R29	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
R30	1-216-186-00	METAL CHIP	330 5% 1/8W
R31	1-216-025-91	METAL CHIP	100 5% 1/10W
R32	1-249-425-11	CARBON	4.7K 5% 1/4W
R33	1-249-425-11	CARBON	4.7K 5% 1/4W
R34	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R35	1-216-214-00	METAL CHIP	4.7K 5% 1/8W
R36	1-216-025-91	METAL CHIP	100 5% 1/10W
R37	1-216-073-00	METAL CHIP	10K 5% 1/10W
R38	1-216-089-91	METAL CHIP	47K 5% 1/10W
R39	1-249-429-11	CARBON	10K 5% 1/4W
R42	1-216-073-00	METAL CHIP	10K 5% 1/10W
R43	1-216-042-00	METAL CHIP	510 5% 1/10W
R44	1-216-021-00	METAL CHIP	68 5% 1/10W
R45	1-249-423-11	CARBON	3.3K 5% 1/4W
R46	1-216-073-00	METAL CHIP	10K 5% 1/10W
R47	1-216-097-91	METAL CHIP	100K 5% 1/10W
R48	1-249-417-11	CARBON	1K 5% 1/4W
R49	1-216-049-91	METAL CHIP	1.0K 5% 1/10W
R50	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R51	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R53	1-249-429-11	CARBON	10K 5% 1/4W
R54	1-249-399-11	CARBON	33 5% 1/4W (E3, EA, HK, MX, MY, SP, JE)
R55	1-216-162-00	METAL CHIP	33 5% 1/10W
R56	1-249-393-11	CARBON	10 5% 1/4W
R91	1-216-065-00	METAL CHIP	4.7K 5% 1/10W (E3, EA, HK, MX, MY, SP, JE)
R92-94	1-216-073-00	METAL CHIP	10K 5% 1/10W (E3, EA, HK, MX, MY, SP, JE)
< VARIABLE RESISTOR >			
RV41	1-238-601-11	RES, ADJ, CARBON 22K	
RV42	1-238-600-11	RES, ADJ, CARBON 10K	
< TRANSFORMER >			
T1	1-409-505-11	COIL (ANT. SW3) (E3, EA, HK, MX, MY, SP, JE)	
T2	1-402-960-11	COIL (OSC SW3) (E3, EA, HK, MX, MY, SP, JE)	
< TERMINAL >			
TM1	1-537-238-21	TERMINAL BOARD (ANTENNA)	
< VIBRATOR >			
X21	1-760-549-11	VIBRATOR, CRYSTAL (4.5MHz)	
X41	1-760-220-11	FILTER, CERAMIC (10.7MHz)	
X42	1-527-981-00	FILTER, CERAMIC (450kHz)	
X43	1-577-075-11	OSCILLATOR, CERAMIC (19kHz)	

Ref. No.	Part No.	Description	Remark
*	1-658-764-11	TRANSFORMER A BOARD	*****
	1-533-293-11	FUSE HOLDER	
< CONNECTOR >			
CN851	1-564-321-00	PIN, CONNECTOR 2P	
< FUSE >			
△F851	1-532-203-00	FUSE, TIME LAG (2A 250V) (AUS, TH)	
△F851	1-532-237-00	FUSE, TIME LAG (3.15A 250V) (MX, MY, SP)	
△F851	1-532-350-00	FUSE, TIME LAG (4A 250V)	(EXCEPT AUS, TH)
△F852	1-532-203-00	FUSE, TIME LAG (2A 250V)	(EXCEPT AUS, TH)
△F852	1-532-259-00	FUSE, TIME LAG (1.6A 250V) (MX, MY, SP)	*****
*	1-658-765-11	TRANSFORMER B BOARD	*****
	1-533-293-11	FUSE HOLDER	
< CONNECTOR >			
* CN852	1-564-527-11	PLUG, CONNECTOR 12P	
< FUSE >			
△F853-856	1-532-237-00	FUSE, TIME LAG (3.15A 250V)	*****
*	1-659-506-11	V. SW BOARD (EXCEPT AUS, TH)	*****
< SWITCH >			
△S851	1-572-367-11	SWITCH, VOLTAGE SELECTION (VOLTAGE SELECTOR) (EXCEPT AUS, TH)	*****

		MISCELLANEOUS	*****
5	1-533-293-11	FUSE HOLDER	
18	1-569-007-11	ADAPTER, CONVERSION 2P (E3, JE)	
18	1-569-008-11	ADAPTER, CONVERSION 2P (EA, SP, MX)	
18	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (HK)	
* 19	1-660-130-11	SURROUND BOARD	
△CNP801	1-574-805-11	CORD, POWER (EA, MX, MY, SP, HK, AR)	
△CNP801	1-574-902-11	CORD, POWER (E, JE, TH)	
△CNP801	1-696-847-11	CORD, POWER (AUS)	
△F851	1-532-203-00	FUSE, TIME LAG (2A 250V) (AUS, TH)	
△F851	1-532-237-00	FUSE, TIME LAG (3.15A 250V) (MX, MY, SP)	

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Replace only with part number
specified.

Ref. No.	Part No.	Description	Remark
△F851	1-532-350-00	FUSE, TIME LAG (4A 250V) (EXCEPT AUS, MX, MY, SP, TH)	
△F852	1-532-203-00	FUSE, TIME LAG (2A 250V) (EXCEPT AUS, MX, MY, SP, TH)	
△F852	1-532-259-00	FUSE, TIME LAG (1.6A 250V) (MX, MY, SP)	
△F853	1-532-237-00	FUSE, TIME LAG (3.15A 250V)	
△F854	1-532-237-00	FUSE, TIME LAG (3.15A 250V)	
△F855	1-532-237-00	FUSE, TIME LAG (3.15A 250V)	
△F856	1-532-237-00	FUSE, TIME LAG (3.15A 250V)	
FL501	1-517-483-11	INDICATOR TUBE, FLUORESCENT	
△T801	1-429-257-11	TRANSFORMER, POWER	

ACCESSORIES & PACKING MATERIALS

1-501-695-11 ANTENNA, FM

1-776-017-11 CORD (WITH CONNECTOR) (17P)
(SYSTEM CONTROL 1)1-776-018-11 CODE (WITH CONNECTOR) (7P)
(SYSTEM CONTROL 2)

HARDWARE LIST

- | | | |
|----|--------------|-----------------------------|
| #1 | 7-685-646-79 | SCREW +BVTP 3×8 TYPE2 N-S |
| #2 | 7-682-548-04 | SCREW +BVTT 3×8 (S) |
| #3 | 7-685-647-79 | SCREW +BVTP 3×10 TYPE2 N-S |
| #4 | 7-685-650-79 | SCREW +BVTP 3×16 TYPE2 IT-3 |

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specified.