

# STR-NX5MD

## SERVICE MANUAL

*AEP Model  
UK Model  
E Model*



STR-NX5MD is the  
Tuner and Amplifier  
Section in DHC-NX5MD.

### SPECIFICATIONS

#### Amplifier section

##### European model

DIN power output (rated) 80 + 80 watts  
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference)  
100 + 100 watts  
(6 ohms at 1 kHz, 10% THD)

Music power output (reference)  
160 + 160 watts  
(6 ohms at 1 kHz, 10% THD)

##### Other models

DIN power output (rated) 90 + 90 watts  
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference)  
110 + 110 watts  
(6 ohms at 1 kHz, 10% THD)

#### Inputs

VIDEO IN:  
(phono jacks) voltage 250 mV  
impedance 47 kilohms

TAPE IN:  
(phono jacks) voltage 250 mV  
impedance 47 kilohms

#### Outputs

TAPE OUT:  
(phono jacks) voltage 250 mV  
impedance 1 kilohms

PHONES:  
(stereo mini jack) accepts headphones of 8 ohms or  
more

FRONT SPEAKER:  
accepts impedance of 6 to 16 ohms

REAR SPEAKER:  
accepts impedance of 16 ohms

SUPER WOOFER:  
voltage 1 V, impedance 1 kilohms

#### Tuner section

FM stereo, FM/AM superheterodyne tuner

#### FM tuner section

##### Tuning range

Tourist model: 76.0 – 108.0 MHz

Other models: 87.5 – 108.0 MHz

Aerial FM lead aerial

Aerial terminals 75 ohm unbalanced

Intermediate frequency 10.7 MHz

#### AM tuner section

##### Tuning range

European models: 531 – 1,602 kHz  
(with the interval set at 9 kHz)

Other models: 531 – 1,602 kHz  
(with the interval set at 9 kHz)  
530 – 1,710 kHz  
(with the interval set at 10 kHz)

Aerial AM loop aerial

Aerial terminals External aerial terminal

Intermediate frequency 450 kHz

#### General

##### Power requirements

European models: 230 V AC, 50/60 Hz

Other models: 120 V, 220 V or 230 – 240 V AC,  
50/60 Hz Adjustable with voltage  
selector

##### Power consumption

European models: 190 watts

Other models: 220 watts

##### Dimensions (w/h/d)

Approx. 225 × 202 × 356 mm

##### Mass

European models: Approx. 7.8 kg

Other models: Approx. 7.6 kg

##### Supplied accessories:

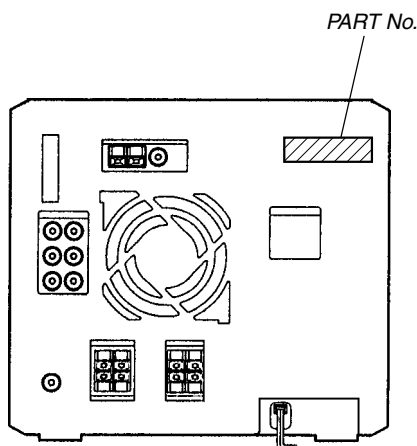
AM loop aerial (1)  
Remote Commander (1)  
Batteries (2)  
FM lead aerial (1)  
Speaker cords (2)  
Front speaker pads (8)

Design and specifications are subject to change  
without notice.

**TUNER/AMPLIFIER**

**SONY®**

• **MODEL IDENTIFICATION**  
 – Rear Panel –



MODEL	PART No.
AEP, UK, G, AED and CIS models	4-221-391-8□
Malaysia and Singapore models	4-221-391-9□

- Abbreviation  
 G : German model  
 AED : North European model

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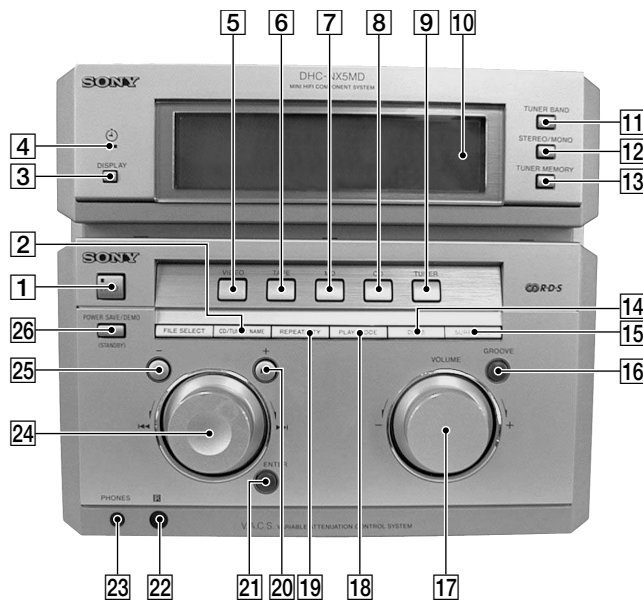
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**SAFETY-RELATED COMPONENT WARNING!!**

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

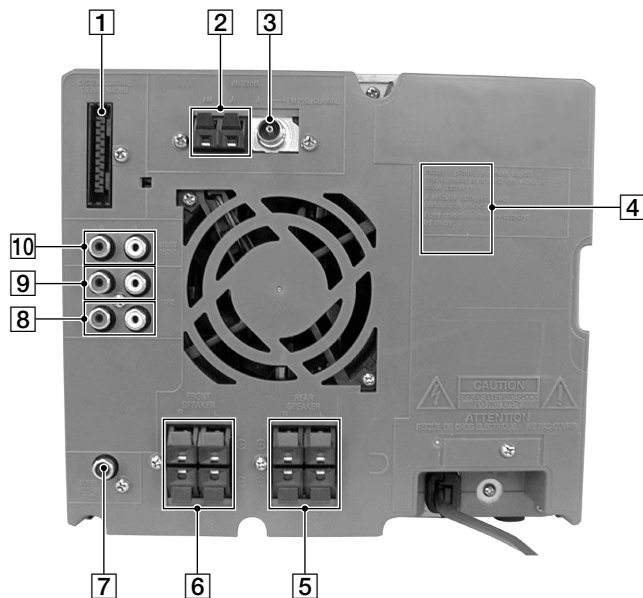
# SECTION 1 GENERAL

## • LOCATION OF CONTROLS – Front Panel –



- 1 I/⏻ (Power) button and indicator
- 2 CD/TUNER NAME button
- 3 DISPLAY button
- 4 TIMER indicator  
(AEP, UK, German, AED and CIS models)
- 5 VIDEO button
- 6 TAPE button
- 7 MD button
- 8 CD button
- 9 TUNER button
- 10 Display window
- 11 TUNER BAND button
- 12 STEREO/MONO button
- 13 TUNER MEMORY button
- 14 DBFB button
- 15 SURROUND button
- 16 GROOVE button and indicator
- 17 VOLUME knob
- 18 PLAY MODE button
- 19 REPEAT/PTY button
- 20 + ►► button
- 21 ENTER button and indicator
- 22 Remote sensor
- 23 PHONES jack
- 24 Jog dial
- 25 – ◀◀ button
- 26 POWER SAVE/DEMO (STANDBY) button
- 27 FILE SELECT button

## – Rear Panel –



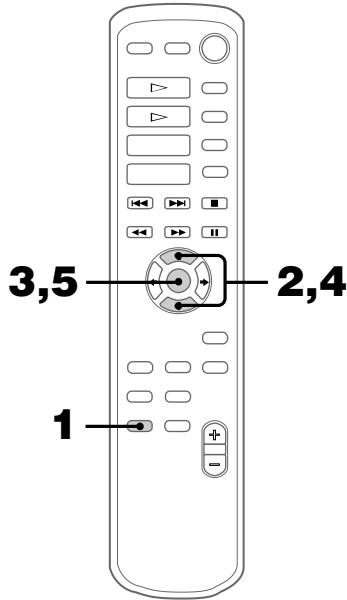
- 1 SYSTEM CONTROL terminals
- 2 AM ANTENNA terminals
- 3 FM ANTENNA terminal
- 4 VOLTAGE SELECTOR switch  
(Malaysia and Singapore models)
- 5 REAR SPEAKER terminals
- 6 CENTER SPEAKER terminals
- 7 SUPER WOOFER OUT jack
- 8 MD OUT jacks
- 9 MD IN jacks
- 10 VIDEO (AUDIO) jacks

- Abbreviation  
AED : North European model


Photo: AEP model

## Step 2: Setting the time

You must set the time beforehand to use the timer functions.  
The clock is on a 24-hour system for the European model, and a 12-hour system for other models.  
The 24-hour system is used for illustration purposes.




**1** Press CLOCK/TIMER SET.  
The hour indication flashes.



**2** Press  $\uparrow$  or  $\downarrow$  to set the hour.

**3** Press ENTER.  
The minute indication flashes.



**4** Press  $\uparrow$  or  $\downarrow$  to set the minute.

**5** Press ENTER.  
The clock starts.

**Getting Started**

### Tips

- If you've made a mistake, start over from step 1.
- Setting the time deactivates the demo mode.  
If you want to display the demo mode, press DISPLAY (European model) or DEMO (STANDBY) (other models) when the power is off.

### To change the time

The previous explanation shows you how to set the time while the power is off. To change the time while the power is on, do the following:

- 1** Press CLOCK/TIMER SET.
- 2** Press  $\uparrow$  or  $\downarrow$  to select the SET CLOCK.
- 3** Press ENTER.
- 4** Perform steps 2 through 5 above.

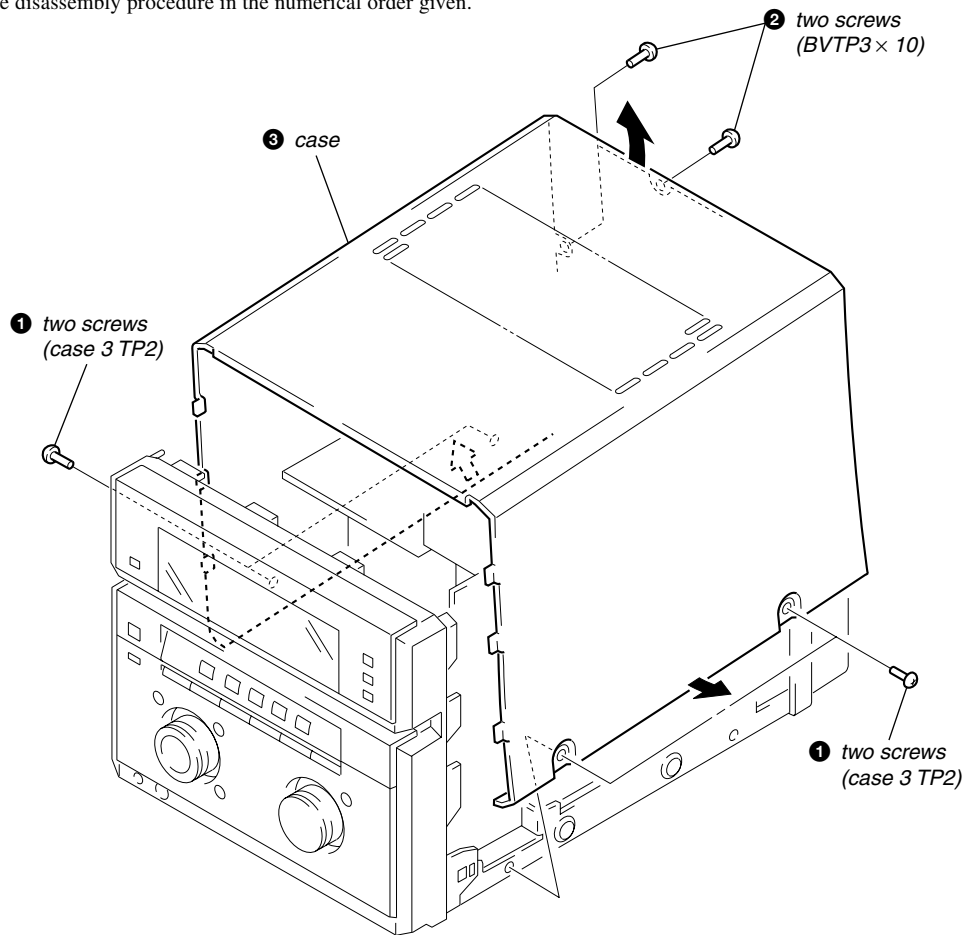
### Note

The clock settings are cancelled when you disconnect the mains lead or if a power failure occurs.

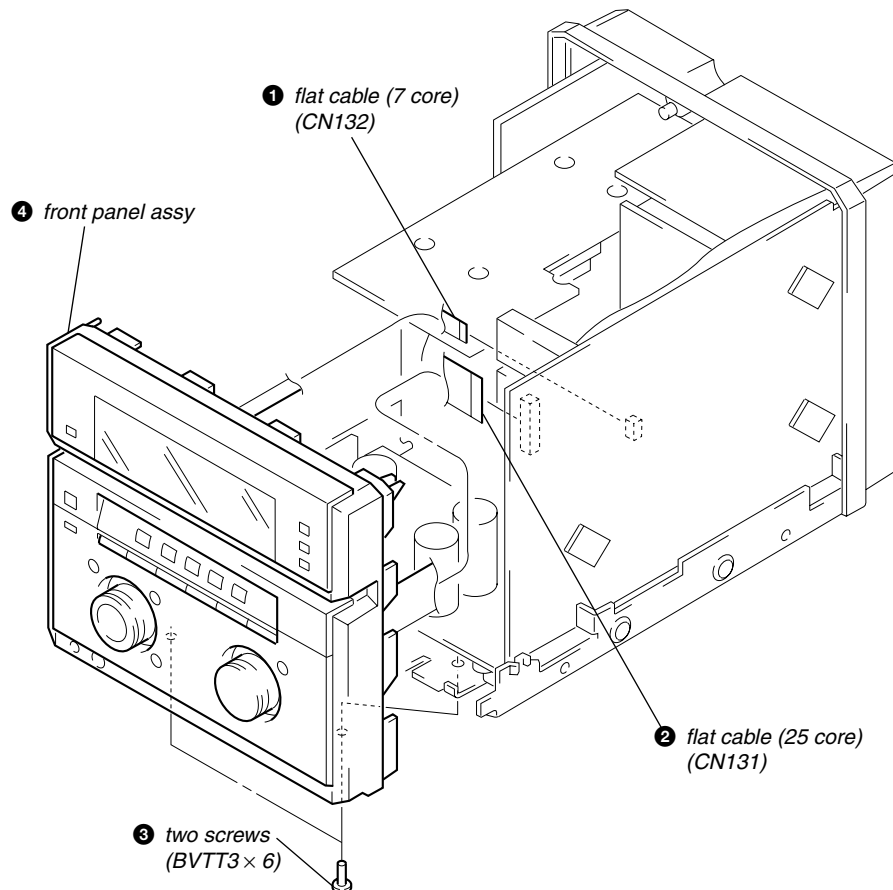
## SECTION 2 DISASSEMBLY

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

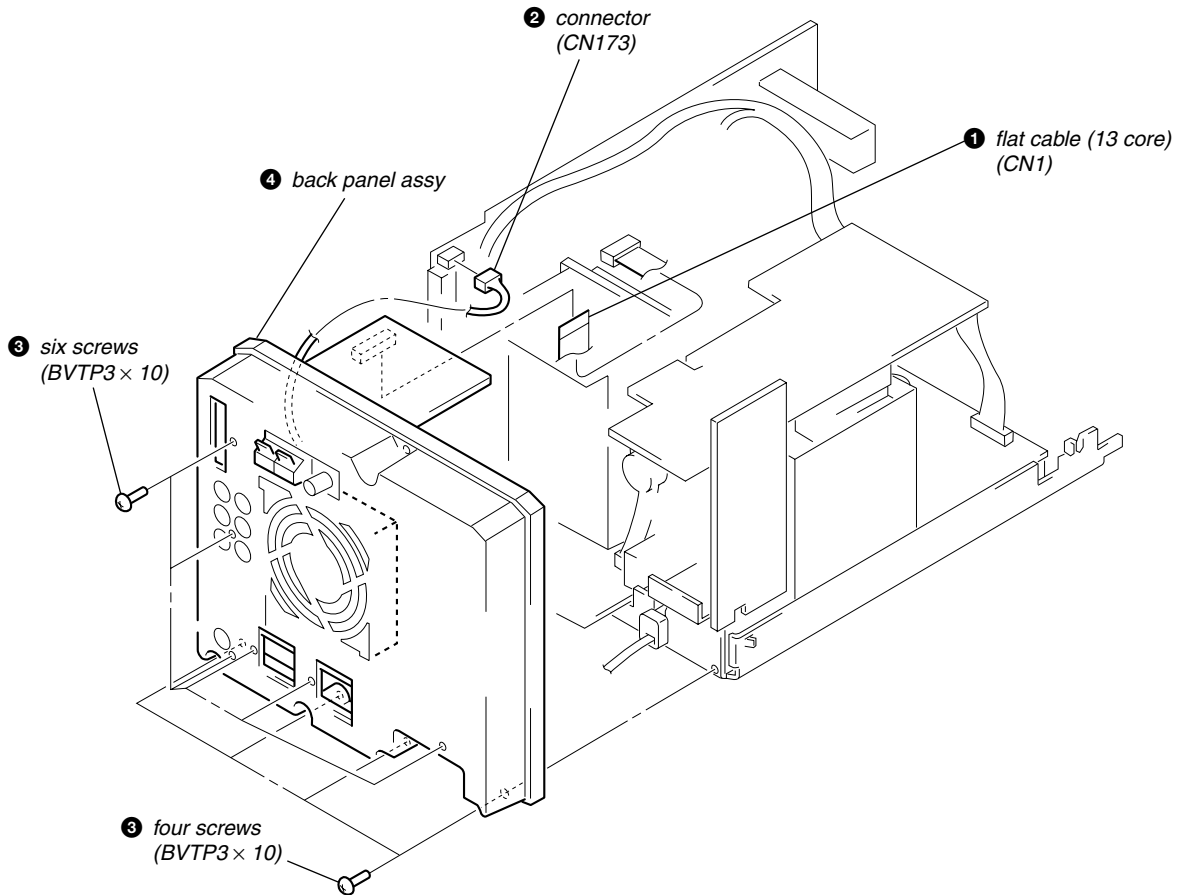
### 2-1. CASE



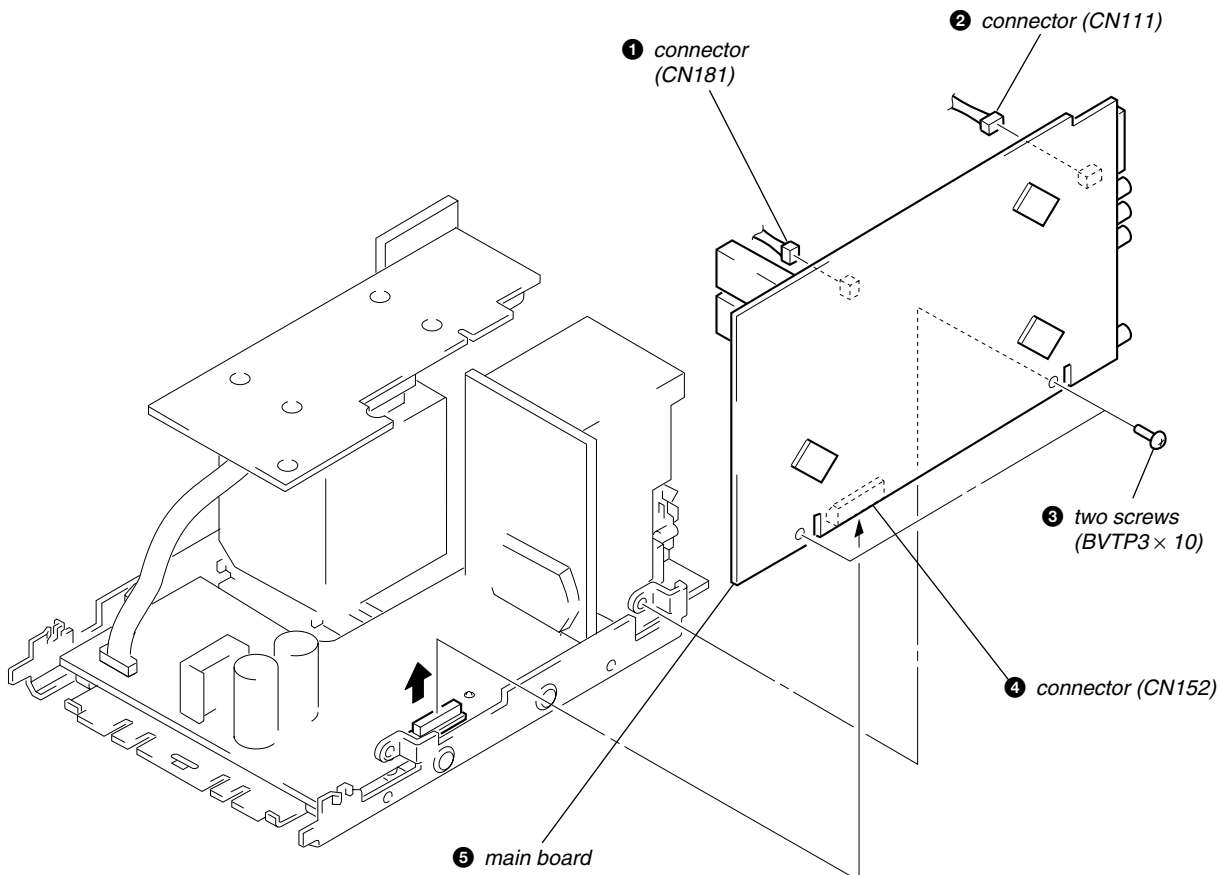
### 2-2. FRONT PANEL ASSY



## 2-3. BACK PANEL ASSY



## 2-4. MAIN BOARD






## SECTION 3 TEST MODE

### [CD Delivery Mode]

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







#### Procedure:

1. Press the  button to turn the power ON.
2. Press the  and  buttons simultaneously.
3. A message "LOCK" is displayed on the liquid crystal display, and the CD delivery mode is set.

### [Change-over the MW Tuning Interval]

- The MW tuning interval can be changed over 9 kHz or 10 kHz.



#### Procedure:

1. Press the  button to turn the power ON.
2. Press the  button to select the function "TUNER", and press the  button to select the BAND "MW".
3. Press the  button to turn the power OFF.
4. Press the  and  buttons simultaneously, and the display on the liquid crystal display changes to "MW 9 k STEP" or "MW 10 k STEP", and thus the tuning interval is changed over.

### [MC Cold Reset]


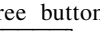

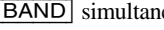
- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

#### Procedure:

1. Turn the power ON or set to the DEMO mode.
2. Press the  and  buttons simultaneously.
3. The set is reset, and displays "COLD RESET", then becomes DEMO mode.


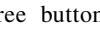






### [Amplifier Test Mode]

#### Procedure:

1. Press the  button to turn the power ON.
2. Press three buttons of  ,  , and  simultaneously.
3. "ALC OFF" is displayed, then the function which was set before the test mode became active is displayed.

### [LED and Liquid Crystal Display All Lit, Software Version Display, Key Check, VACS Level Display Mode]




#### Procedure:

1. Press the  button to turn the power ON.
2. Press three buttons of  ,  , and  simultaneously.
3. LEDs and liquid crystal display are all turned on. Rotating the JOG dial changes over the check patterns of liquid crystal display.
4. Successively, the following three modes can be activated.
  - (1) Press the  button, and the software version is displayed on the liquid crystal display.
  - (2) Press the  button, and the key check mode is activated. In the key check mode, the liquid crystal display displays "K 0 J0 V0". Each time a button is pressed, "K" value increases. However, once a button is pressed, it is no longer taken into account.  
"J" value increases like 1, 2, 3 ... if turn the JOG dial clockwise, or it decreases like 0, 9, 8 ... if turn the JOG dial counter-clockwise.  
"V" value increases like 1, 2, 3 ... if turn the  dial clockwise, or it decreases like 0, 9, 8 ... if turn the JOG dial counter-clockwise.
  - (3) Press the  button, and the VACS level is displayed on the liquid crystal display.
5. To release from these mode, press three buttons in the same manner as step 2, or remove the power cord.

### [MC Hot Reset]



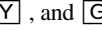

- This mode resets the set with the preset data kept stored in the memory. The hot reset mode functions same as if the power cord is plugged in and out.

#### Procedure:

1. Turn the power ON or set to the DEMO mode.
2. Press three buttons of  ,  , and  simultaneously.
3. The set is reset, and becomes standby state.





### [Change-over of VACS ON/OFF]

#### Procedure:

1. Press the  button to turn the power ON.
2. Press three buttons of  ,  , and  simultaneously, and the display on the liquid crystal display changes to "VACS ON" or "VACS OFF", and thus the VACS ON/OFF is changed over.

### [VIDEO input, Record and CD play in CD function]





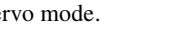
#### Procedure:

1. Press the  button to turn the power ON.
2. Press three buttons of  ,  , and  simultaneously.
3. "DVD 5.1CH" is displayed on liquid crystal display, and at the same time, CD is played and the deck B is placed in the record status.

### [CD Service Mode]

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

#### Procedure:

1. Press the  button to turn the power ON.
2. Press the  button to select the function "CD".
3. Press three buttons of  ,  , and  simultaneously.
4. Set to the Sled Servo mode.
5. With the CD in stop status, turn the JOG dial clockwise to move the optical pick-up to outside track, or turn it counter-clockwise to inside track.
6. To release from this mode, perform as follows.
  - 1) Move the optical pick-up to the most inside track.
  - 2) Remove the power cord.

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



### [Aging Mode]

This mode can be used for operation check of CD section and tape deck section.

CD section and tape deck section work in parallel.

- If an error occurred:  
The aging operation stops only an error occurred sections and display then status.
- If no error occurs:  
The aging operation continues repeatedly.

#### Procedure:

1. Set disc in DISC5 tray.
2. Load the tapes into the decks A and B respectively.
3. Press the [PLAY MODE] button to set the "ALL DISCS" mode, and press the [REPEAT/PTY] button to "REPEAT" off.
4. Press the [CD] button to select the function "CD".
5. Press three buttons of [ENTER], [POWER SAVE/DEMO (STANDBY)], and [TUNER BAND] simultaneously.
6. The aging mode is activated, if the indicator of disc tray number on the liquid crystal display is blinking.
7. To release from the aging mode, press the [I/O] button to turn the power OFF and operate the cold reset. (Refer to the "MC Cold Reset")

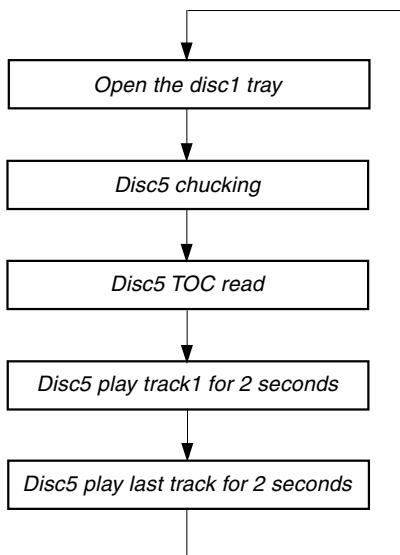
#### 1. Display at the Aging Mode

- Display operating state of CD section and tape deck section alternately.
- If an error occurred, stop display which that section.

#### 2. CD Section

- Display at the aging mode is the same as the normal operation.
- The sequence during the aging mode is following as below.

#### Aging mode sequence (CD section) :



- Display at an error occurred

#### 1) Display of the error count

- (1) Press three buttons of [ENTER], [POWER SAVE/DEMO (STANDBY)], and [GROOVE] simultaneously.
- (2) Display of the error count following as below.

Display

EMC\*\*EDC\*\*

#### Notes:

EMC\*\* : The number of mechanical error.

EDC\*\* : The number of no disc error after chucking the disc.

#### 2) Display of mechanical error

Display

E\*\*M##\$\$&&

#### Notes:

\*\* : The number of mechanical error. ("00" is latest one)

(Press the [PLAY MODE] button to changes next error display)

## : Not used.

\$\$ : Loading error. (Second figure is not used)

D : The error in the midst of close at the except mechanical trouble.

E : The error in the midst of open at the except mechanical trouble.

C : The error in the midst of chuck up at the except mechanical trouble.

F : The error in the midst of EX-open at the except mechanical trouble.

&& : Loading error. (Second figure in not used)

1 : The error in the midst of chuck up.

2 : The error in the midst of chuck down.

3 : Time up of EX-open

4 : Time up of EX-close.

#### 3) Display of no disc error

Display

E\*\*D##\$\$&&

#### Notes:

\*\* : The number of mechanical error. ("00" is latest one)

(Press the [REPEAT] button to changes next error display)

## :

01 : Focus error

02 : GFS error

03 : Set up error

\$\$ :

00 : No disc error when does not chucking retry.

02 : No disc error when chucking retry to completion.

&& : The state when judged no disc error. (Second figure is not used)

1 : Stop

2 : Set up

3 : TOC read

4 : Access

5 : Play

6 : Pause

7 : Manual search (Play)

8 : Manual search (Pause)

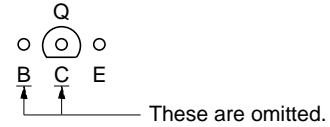
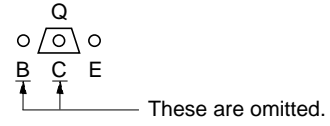


# SECTION 4 DIAGRAMS

## 4-1. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

### Note on Printed Wiring Board:

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : parts mounted on the conductor side.
- ▨ : Pattern from the side which enables seeing. (The other layers' patterns are not indicated)
- : Indication of transistor.



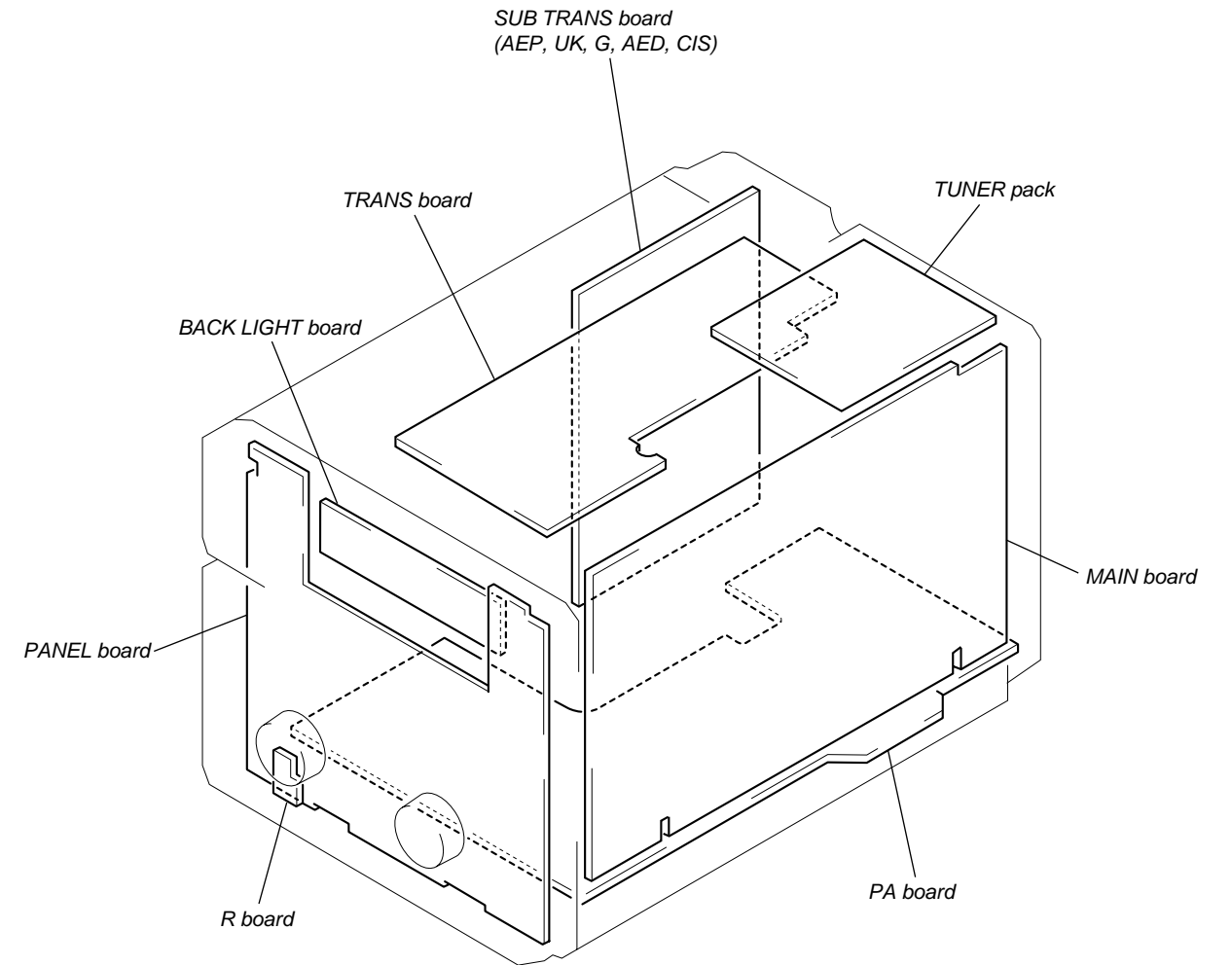
### Note on Schematic Diagram:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\mu\text{F}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $1/4\text{W}$  or less unless otherwise specified.
- $\Delta$  : internal component.
- $\square$  : nonflammable resistor.
- $\square$  : fusible resistor.
- $\square$  : panel designation.

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

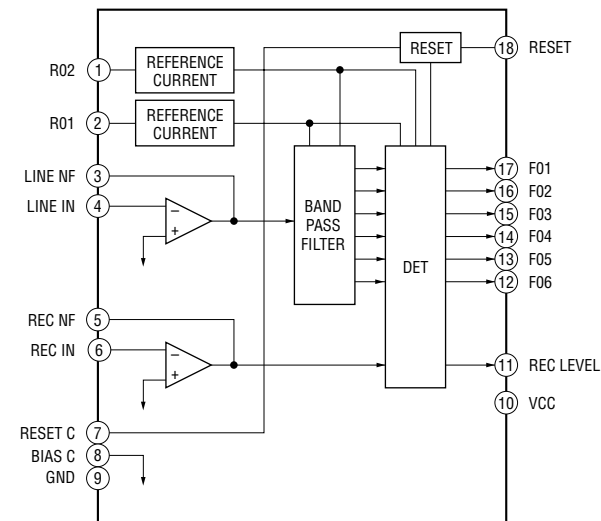
- $\square$  : B+ Line.
- $\square$  : B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark : TUNER (FM)
- Voltages are taken with a VOM (Input impedance  $10\text{M}\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- $\rightarrow$  : FM
- $\rightarrow$  : MD PLAY
- $\rightarrow$  : CD PLAY
- $\rightarrow$  : MD REC
- Abbreviation
- MY : Malaysia model
- SP : Singapore model
- G : German model
- AED : North European model

## • Circuit Boards Location



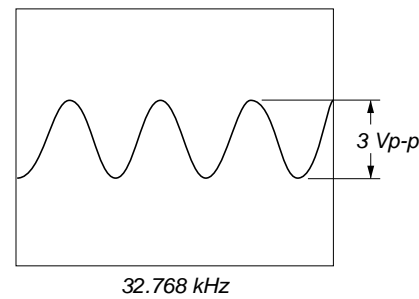
## • IC Block Diagram – MAIN Board –

### IC401 BA3830F

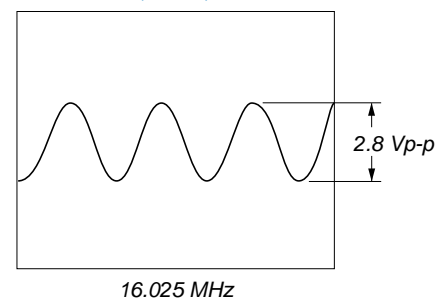


## • Waveforms – MAIN Board –

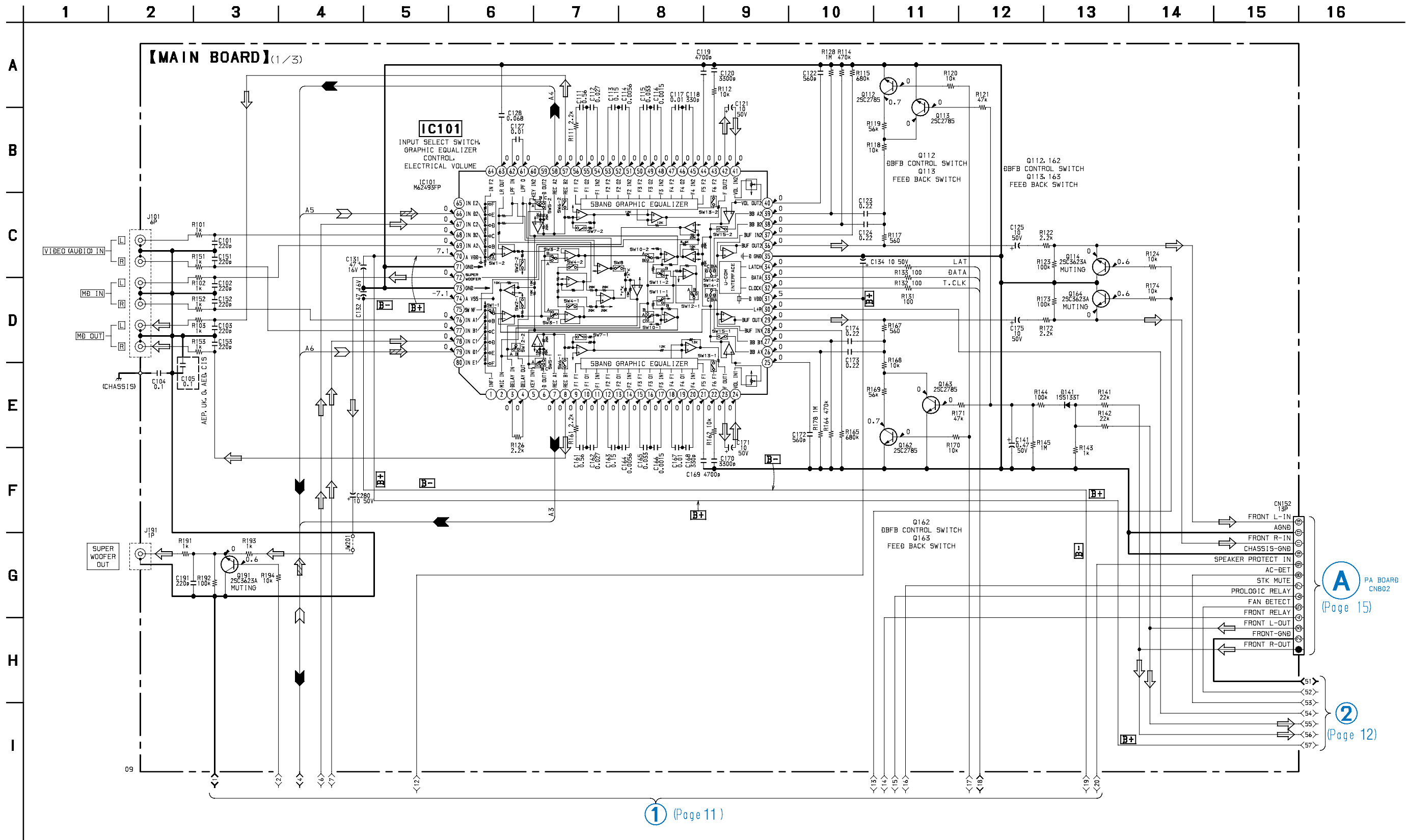
### 1 IC501 ⑪ (XCOUT)



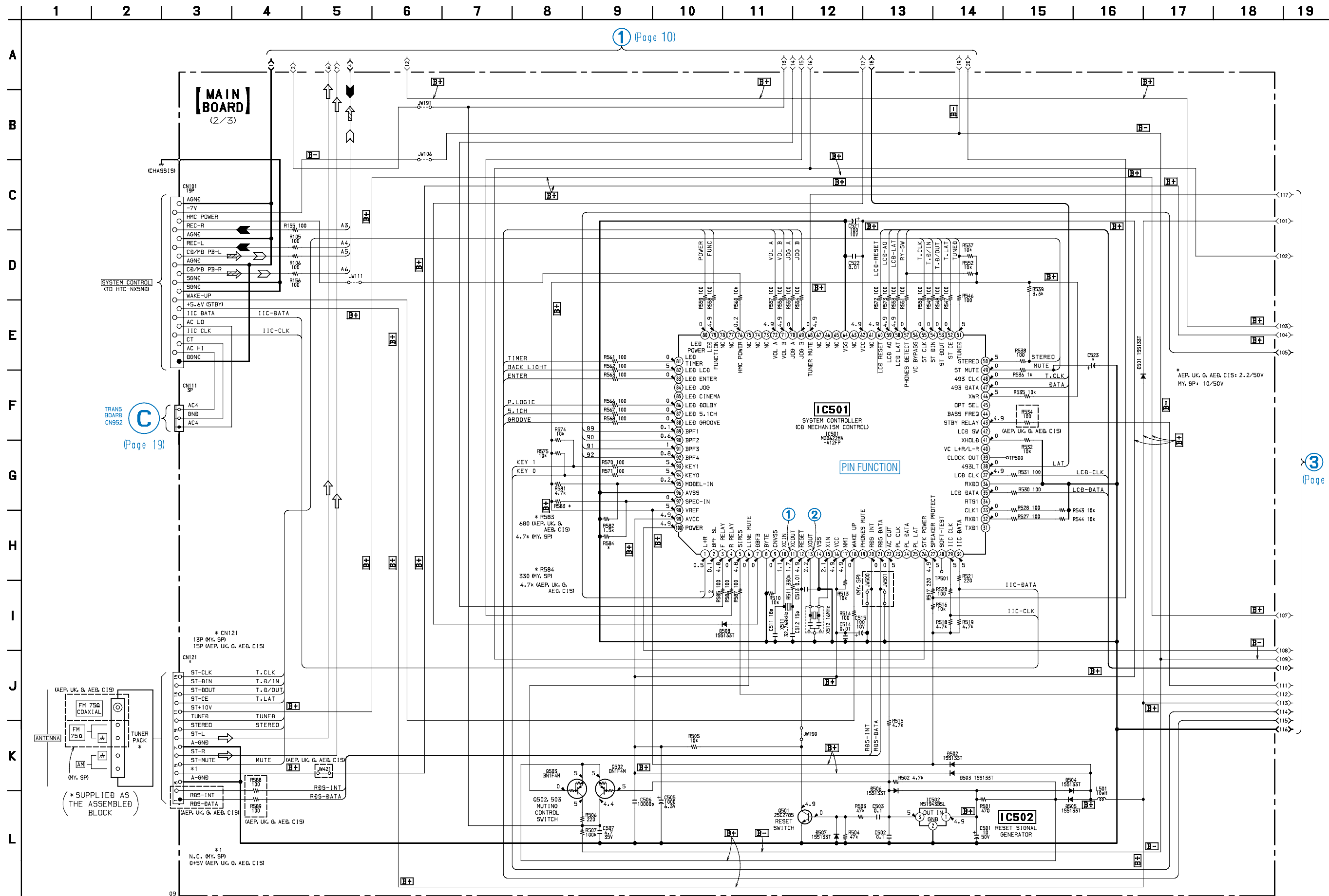
### 2 IC501 ⑬ (XOUT)



4-2. SCHEMATIC DIAGRAM – MAIN Board (1/3) – • See page 13 for Printed Wiring Board.



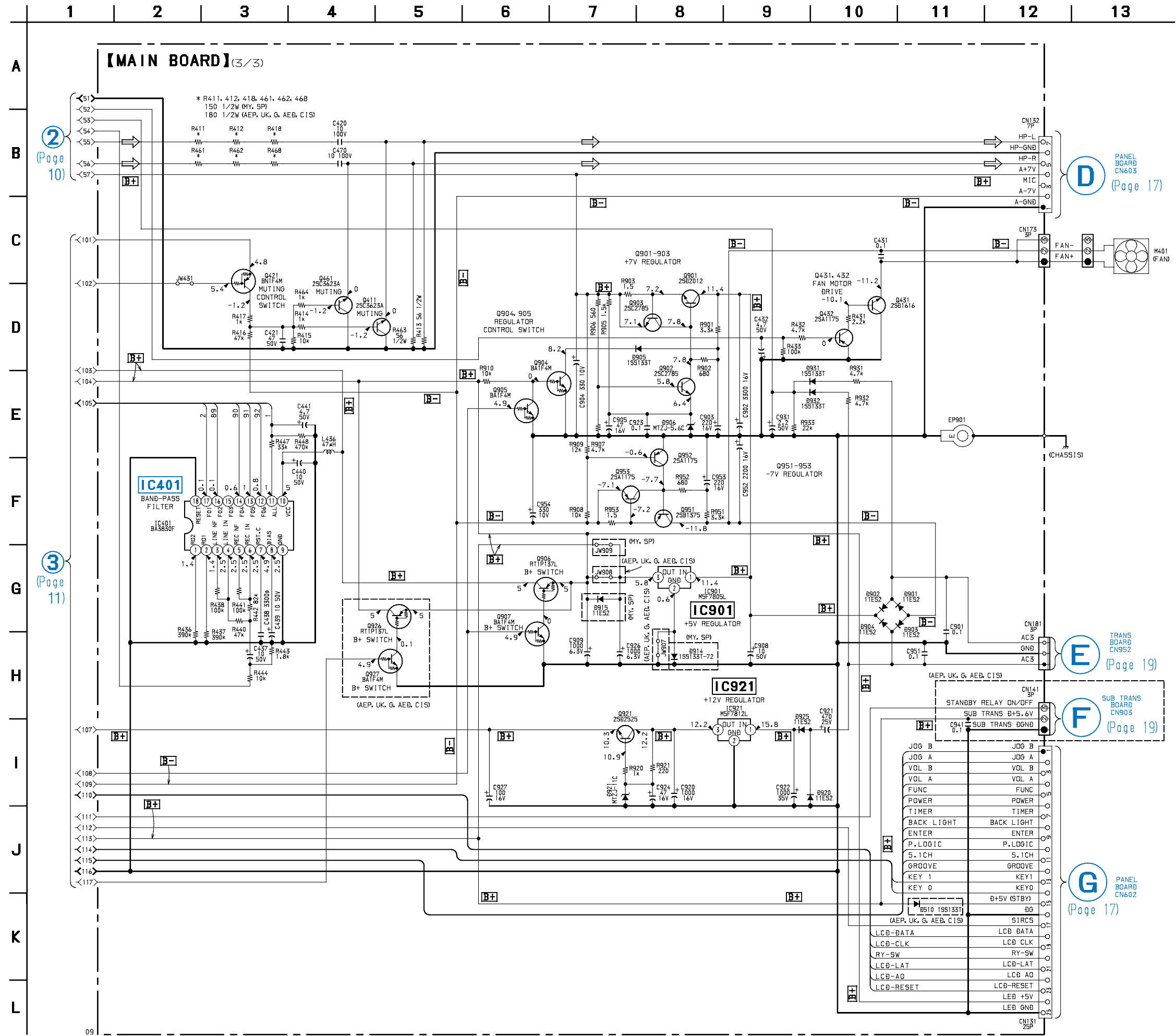
4-3. SCHEMATIC DIAGRAM – MAIN Board (2/3) – • See page 9 for Waveforms. • See page 13 for Printed Wiring Board.



1 (Page 10)

3 (Page 12)

4-4. SCHEMATIC DIAGRAM – MAIN Board (3/3) – • See page 9 for IC Block Diagram.



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D141	A-8	Q112	A-8
D501	B-2	Q113	A-8
D502	D-1	Q114	G-6
D503	D-1	Q162	A-9
D504	E-1	Q163	A-9
D505	E-1	Q164	G-6
D506	E-1	Q191	G-11
D507	F-1	Q411	D-5
D508	E-2	Q421	C-3
D510	C-1	Q431	E-6
D901	B-5	Q432	D-6
D902	B-5	Q461	D-5
D903	B-5	Q501	F-1
D904	B-4	Q502	F-1
D905	A-6	Q503	F-1
D906	A-6	Q901	A-6
D914	A-3	Q902	A-6
D915	B-3	Q903	A-6
D920	B-4	Q904	A-3
D921	B-3	Q905	A-3
D925	B-4	Q906	B-3
D931	A-4	Q907	B-4
D932	A-4	Q921	B-3
		Q926	B-3
		Q927	B-3
IC101	B-9	Q951	B-6
IC401	E-5	Q952	B-6
IC501	E-3	Q953	B-6
IC502	E-1		
IC901	A-2		
IC921	C-2		

2 (Page 10)

3 (Page 11)

D PANEL BOARD CN603 (Page 17)

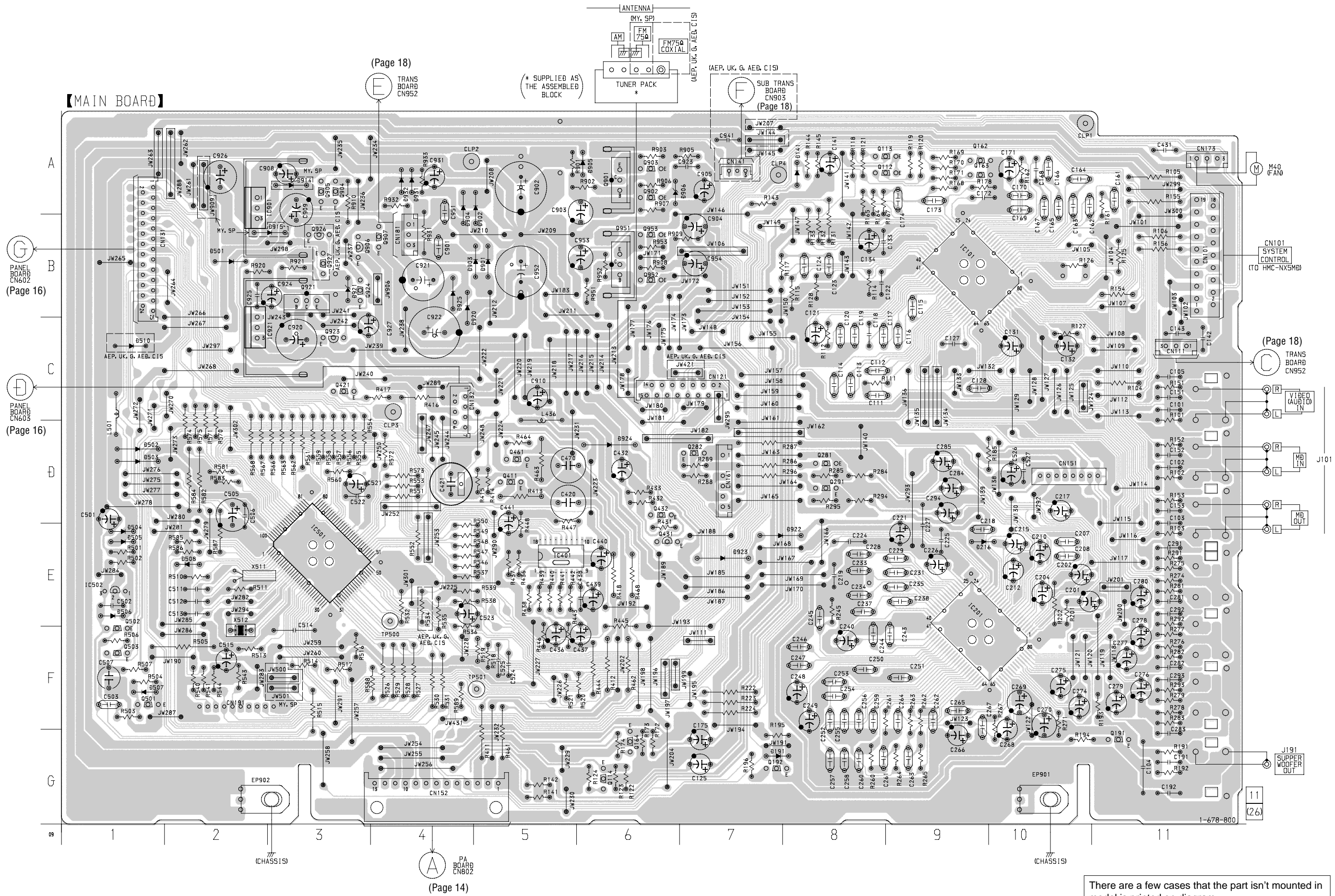
E TRANS BOARD CN952 (Page 19)

F SUB TRANS BOARD CN903 (Page 19)

G PANEL BOARD CN602 (Page 17)



4-5. PRINTED WIRING BOARD – MAIN Board – • See page 9 for Circuit Boards Location.

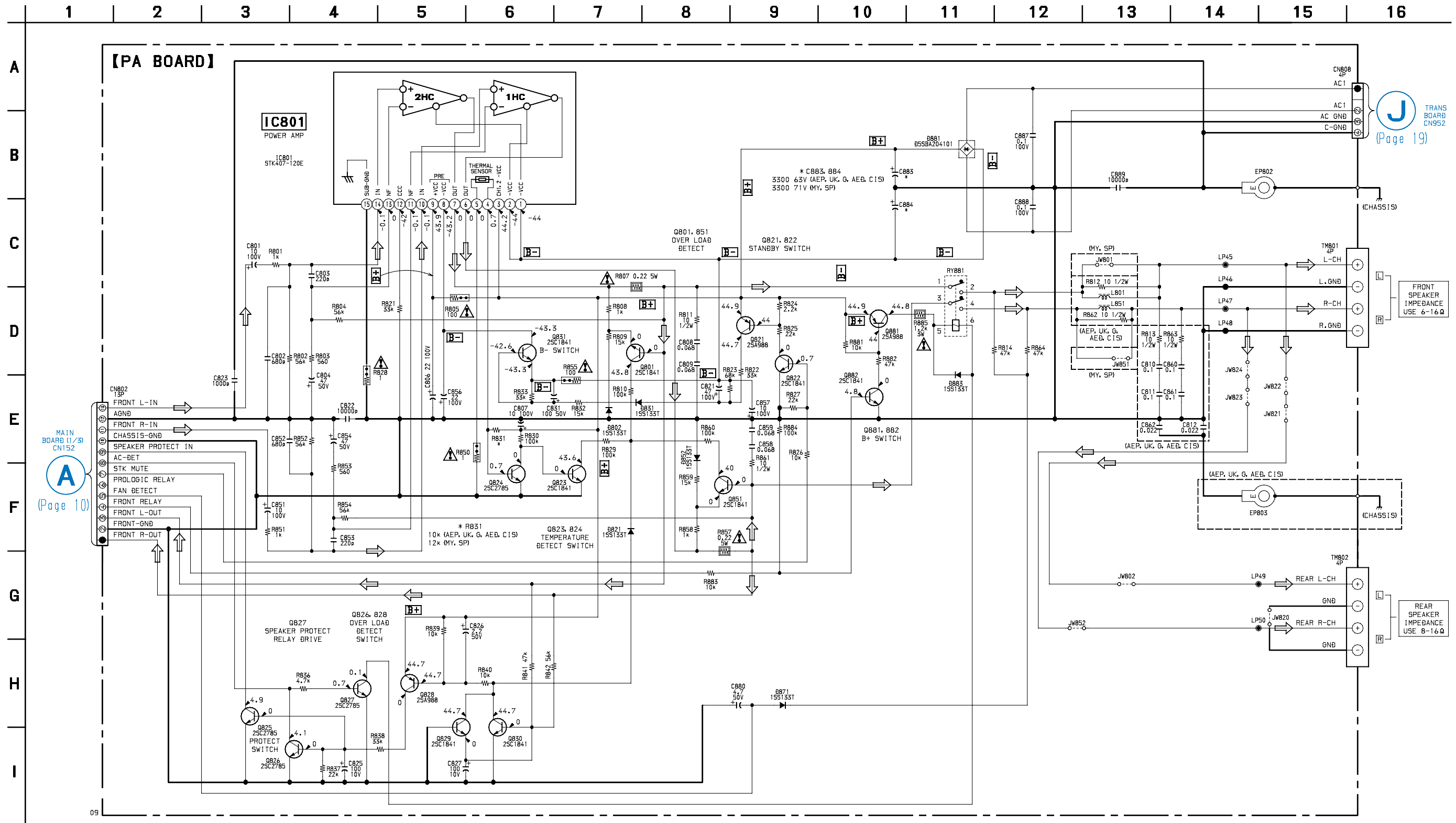


There are a few cases that the part isn't mounted in model is printed on diagram.





4-7. SCHEMATIC DIAGRAM – PA Board –



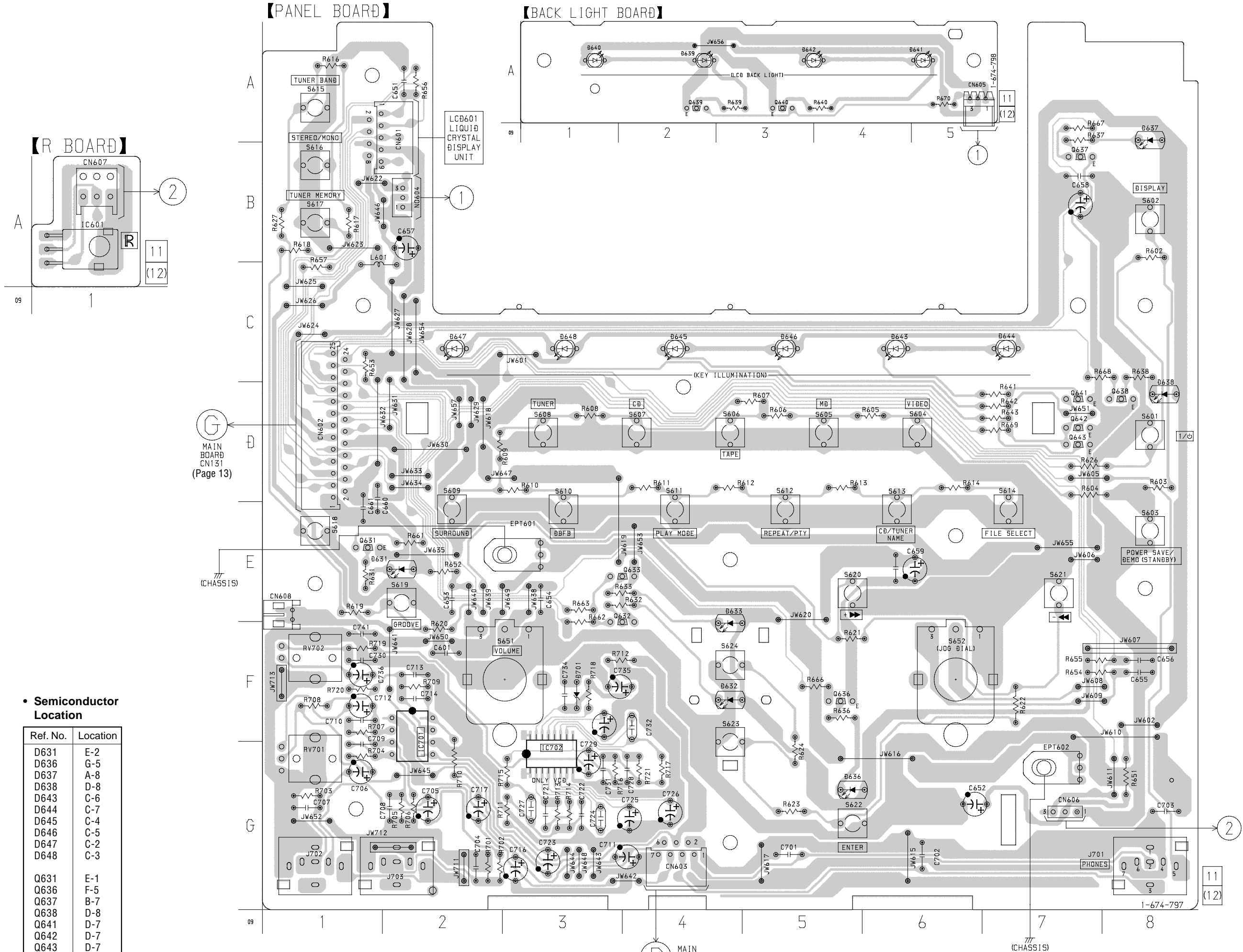
MAIN BOARD (1/3) CN152 (Page 10)

TRANS BOARD CN952 (Page 19)

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



4-8. PRINTED WIRING BOARDS – PANEL Section – • See page 9 for Circuit Boards Location.



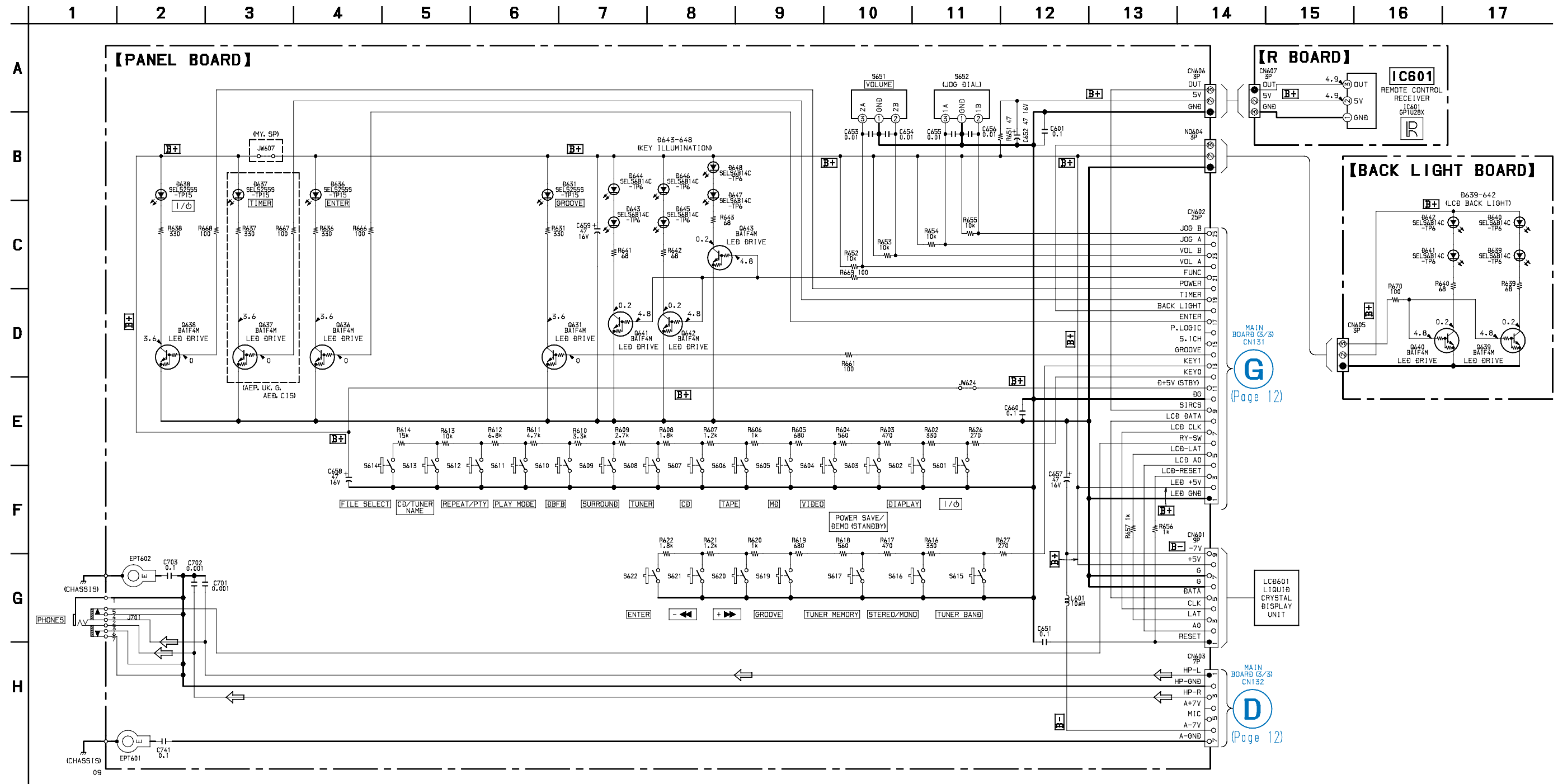
• Semiconductor Location

Ref. No.	Location
D631	E-2
D636	G-5
D637	A-8
D638	D-8
D643	C-6
D644	C-7
D645	C-4
D646	C-5
D647	C-2
D648	C-3
Q631	E-1
Q636	F-5
Q637	B-7
Q638	D-8
Q641	D-7
Q642	D-7
Q643	D-7

MAIN BOARD CN132 (Page 13)

There are a few cases that the part isn't mounted in model is printed on diagram.

4-9. SCHEMATIC DIAGRAM – PANEL Section –

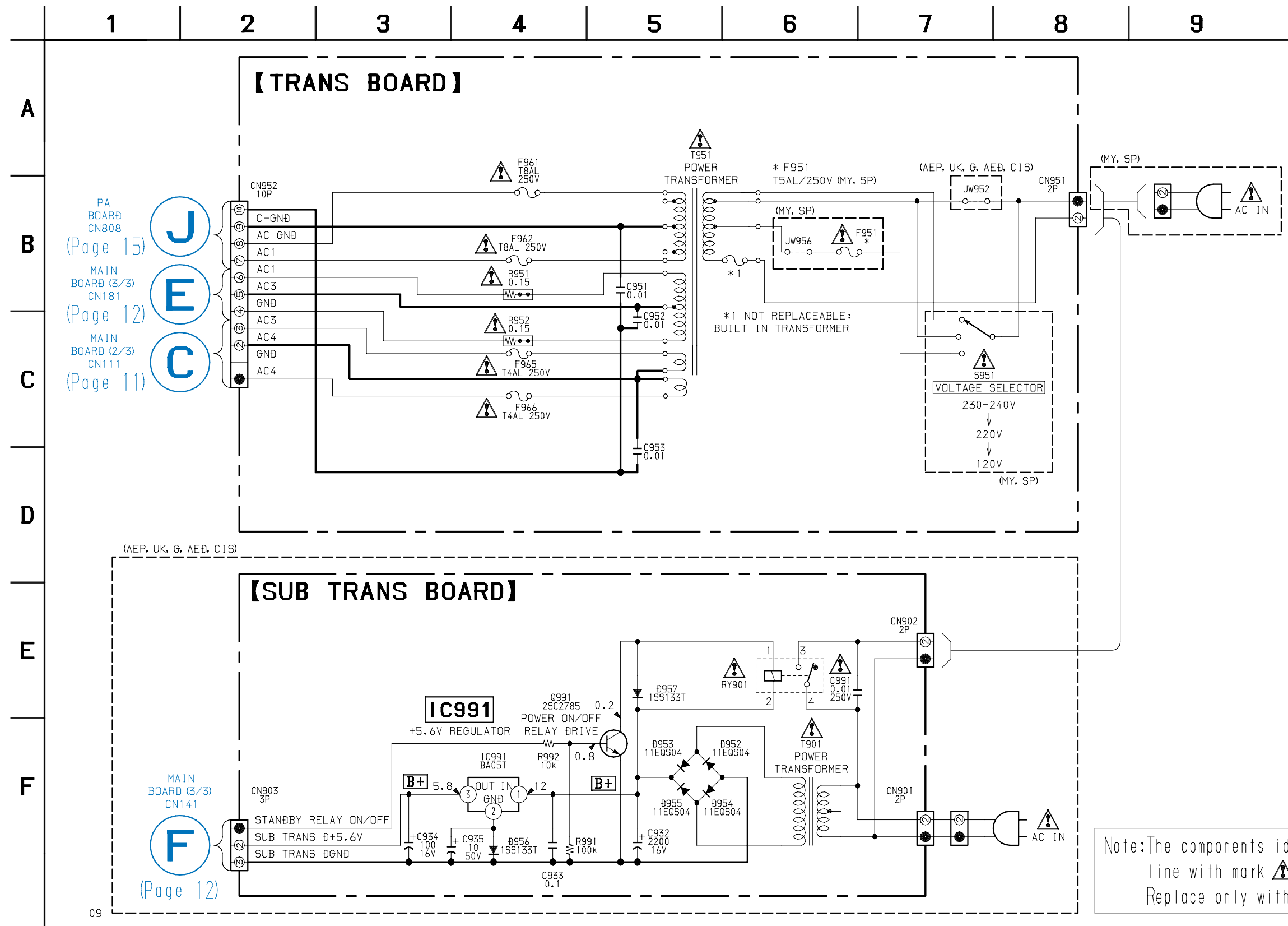


(Page 12)

(Page 12)



4-11. SCHEMATIC DIAGRAM – TRANSFORMER Section –



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

#### 4-12. IC PIN FUNCTION DESCRIPTION

##### • MAIN BOARD IC501 M30622MAA-A39FP (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Descriptions
1	L+R	I	Spectrum analyzer drive signal input from the spectrum analyzer band-pass filter (IC401) (for VACS, non-stop signal)
2	BPF SL	I	Spectrum analyzer drive (super low frequency) signal input from the spectrum analyzer band-pass filter (IC401) (for 40 Hz)
3	F RELAY	O	Speaker protect relay drive signal output for the front side speaker "H": relay on
4	R RELAY	O	Speaker protect relay drive signal output for the rear side speaker "H": relay on
5	SIRCS	I	Remote control signal input from the remote control receiver (IC601)
6	LINE MUTE	O	Line muting on/off control signal output terminal "L": muting on
7	DBFB	O	DBFB normal/high selection signal output to the M62493FP (IC101) "L": DBFB high, "H": DBFB low/off
8	BYTE	I	External data bus line byte selection signal input terminal Fixed at "L" in this set
9	CNVSS	—	Ground terminal
10	XCIN	I	Sub system clock input terminal (32.768 kHz)
11	XCOU	O	Sub system clock output terminal (32.768 kHz)
12	RESET	I	System reset signal input from the reset signal generator (IC502) "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
13	XOUT	O	Main system clock output terminal (16 MHz)
14	VSS	—	Ground terminal
15	XIN	I	Main system clock input terminal (16 MHz)
16	VCC	—	Power supply terminal (+5V)
17	NMI	I	Non-maskable interrupt input terminal Fixed at "H" in this set
18	WAKE UP	O	Wakeup control signal output to the CPU on the HMC-NX5MD "H" active
19	PHONES MUTE	O	Muting on/off control signal output terminal "L": muting on Not used (open)
20	RDS INT	I	RDS serial data transfer clock signal input from the tuner pack (Used for the AEP, UK, G*, AED* and CIS models only)
21	RDS DATA	I	RDS serial data input from the tuner pack (Used for the AEP, UK, G*, AED* and CIS models only)
22	AC CUT	I	AC off detection signal input from the reset signal generator (IC502) "L": AC cut checked
23	PL CLK	O	Not used (open)
24	PL DATA	O	Not used (open)
25	PL LAT	O	Not used (open)
26	STK POWER	O	Power amplifier on/off selection signal output terminal "L": standby mode, "H": on
27	SPEAKER PROTECT	I	Protect on/off detection signal input from the speaker protect circuit "L": protect on, "H": protect off
28	SOFT-TEST	O	Output terminal for the software test Not used (open)
29	IIC CLK	I/O	Communication data reading clock signal input or transfer clock signal output with the CPU on the HMC-NX5MD
30	IIC DATA	I/O	Communication data bus with the CPU on the HMC-NX5MD
31	TXD1	O	Not used (open)
32	RXD1	I	Not used (fixed at "L")
33	CLK1	I	Not used (fixed at "L")
34	RTS1	O	Not used (open)
35	LCD DATA	O	Serial data output to the liquid crystal display unit (LCD601)
36	RXD0	I	Not used (fixed at "L")
37	LCD CLK	O	Serial data transfer clock signal output to the liquid crystal display unit (LCD601)
38	493 LT	O	Serial data latch pulse output to the M62493FP (IC101)
39	CLOCK OUT	O	Output terminal for the clock signal check Not used (open)
40	VC L+R/L-R	O	Virtual cinema L+R/L-R selection signal output terminal Not used (open)

Pin No.	Pin Name	I/O	Descriptions
41	XHOLD	I	Not used (fixed at "L")
42	LCD SW	O	Liquid crystal display on/off selection signal output terminal "L": on, "H": off Not used (open)
43	STBY RELAY	O	Main power on/off control signal output terminal "L": standby mode, "H": power on (Used for the AEP, UK, G*, AED* and CIS models only)
44	BASS FREQ	O	Sync bass frequency normal/high selection signal output to the M62493FP (IC101) "L": sync bass off (normal), "H": sync bass high Not used (open)
45	OPT SEL	O	Not used (open)
46	XWR	I	Not used (fixed at "H")
47	493 DATA	O	Serial data output to the M62493FP (IC101)
48	493 CLK	O	Serial data transfer clock signal output to the M62493FP (IC101)
49	ST MUTE	O	Tuner muting control signal output to the tuner pack "H": muting on
50	STEREO	I	FM stereo detection signal input from the tuner pack "L": stereo
51	TUNED	I	Tuning detection signal input from the tuner pack "L": tuned
52	ST CE	O	PLL chip enable signal output to the tuner pack
53	ST DOUT	O	PLL serial data output to the tuner pack
54	ST DIN	I	PLL serial data input from the tuner pack
55	ST CLK	O	PLL serial data transfer clock signal output to the tuner pack
56	VC BYPASS	O	Virtual cinema bypass control signal output terminal Not used (open)
57	PHONES DETECT	I	Connection detect signal input of the headphone jack (J701) "L": no connected, "H": headphone connected
58	LCD LAT	O	Serial data latch pulse output to the liquid crystal display unit (LCD601)
59	LCD A0	O	Address signal output to the liquid crystal display unit (LCD601)
60	LCD RESET	O	Reset signal output to the liquid crystal display unit (LCD601) "L": reset
61	NC	O	Not used (open)
62	VCC	—	Power supply terminal (+5V)
63	NC	O	Not used (open)
64	VSS	—	Ground terminal
65 to 67	NC	O	Not used (open)
68	TUNER MUTE	O	TUNER 5V ON/OFF SW
69	JOG B	I	Jog dial pulse input from the rotary encoder (S652 JOG) (B phase input)
70	JOG A	I	Jog dial pulse input from the rotary encoder (S652 JOG) (A phase input)
71	VOL B	I	Jog dial pulse input from the rotary encoder (S651 VOLUME) (B phase input)
72	VOL A	I	Jog dial pulse input from the rotary encoder (S651 VOLUME) (A phase input)
73 to 75	NC	O	Not used (open)
76	HMC POWER	O	HMC POWER detection
77, 78	NC	O	Not used (open)
79	LED FUNCTION	O	LED drive signal output of the key illumination indicator (D643 to D648) "H": LED on
80	LED POWER	O	LED drive signal output of the I/1 indicator (D638) "H": LED on
81	LED TIMER	O	LED drive signal output of the TIMER indicator (D637) "H": LED on (Used for the AEP, UK, G*, AED* and CIS models only)
82	LED LCD	O	LED drive signal output of the liquid crystal display back light indicator (D639 to D642) "H": LED on
83	LED ENTER	O	LED drive signal output of the ENTER indicator (D636) "H": LED on
84	LED JOG	O	LED drive signal output terminal Not used (open)
85	LED CINEMA	O	LED drive signal output terminal Not used (open)
86	LED DOLBY	O	LED drive signal output of the PRO LOGIC indicator (D633) "H": LED on Not used (open)



Pin No.	Pin Name	I/O	Descriptions
87	LED 5.1CH	O	LED drive signal output of the DVD 5.1CH indicator (D632) “H”: LED on Not used (open)
88	LED GROOVE	O	LED drive signal output of the GROOVE indicator (D631) “H”: LED on
89	BPF 1	I	Spectrum analyzer drive (low frequency) signal input from the spectrum analyzer band-pass filter (IC401) (for 100 Hz)
90	BPF 2	I	Spectrum analyzer drive (low and middle frequency) signal input from the spectrum analyzer band-pass filter (IC401) (for 400 Hz)
91	BPF 3	I	Spectrum analyzer drive (middle and high frequency) signal input from the spectrum analyzer band-pass filter (IC401) (for 2 kHz)
92	BPF 4	I	Spectrum analyzer drive (high frequency) signal input from the spectrum analyzer band-pass filter (IC401) (for 6 kHz)
93	KEY1	I	Key input terminal (A/D input) S615 to S617, S619 to S622 (TUNER BAND, STEREO/MONO, TUNER MEMORY, GROOVE, +▶▶, -◀◀) keys input
94	KEY0	I	Key input terminal (A/D input) S601 to S614 (I/1, DISPLAY, POWER SAVE/DEMO (STANDBY), VIDEO/DVD, MD, TAPE, CD, TUNER, DSB, DBFB, PLAY MODE, REPEAT, EDIT, FILE SELECT) keys input
95	MODEL-IN	I	Destination setting terminal
96	AVSS	—	Ground terminal (for A/D conversion)
97	SPEC-IN	I	Setting terminal for the version
98	VREF	I	Reference voltage (+5V) input terminal (for A/D conversion)
99	AVCC	—	Power supply terminal (+5V) (for A/D conversion)
100	POWER	O	Power on/off control signal output terminal “L”: standby mode, “H”: power on

\* Abbreviation

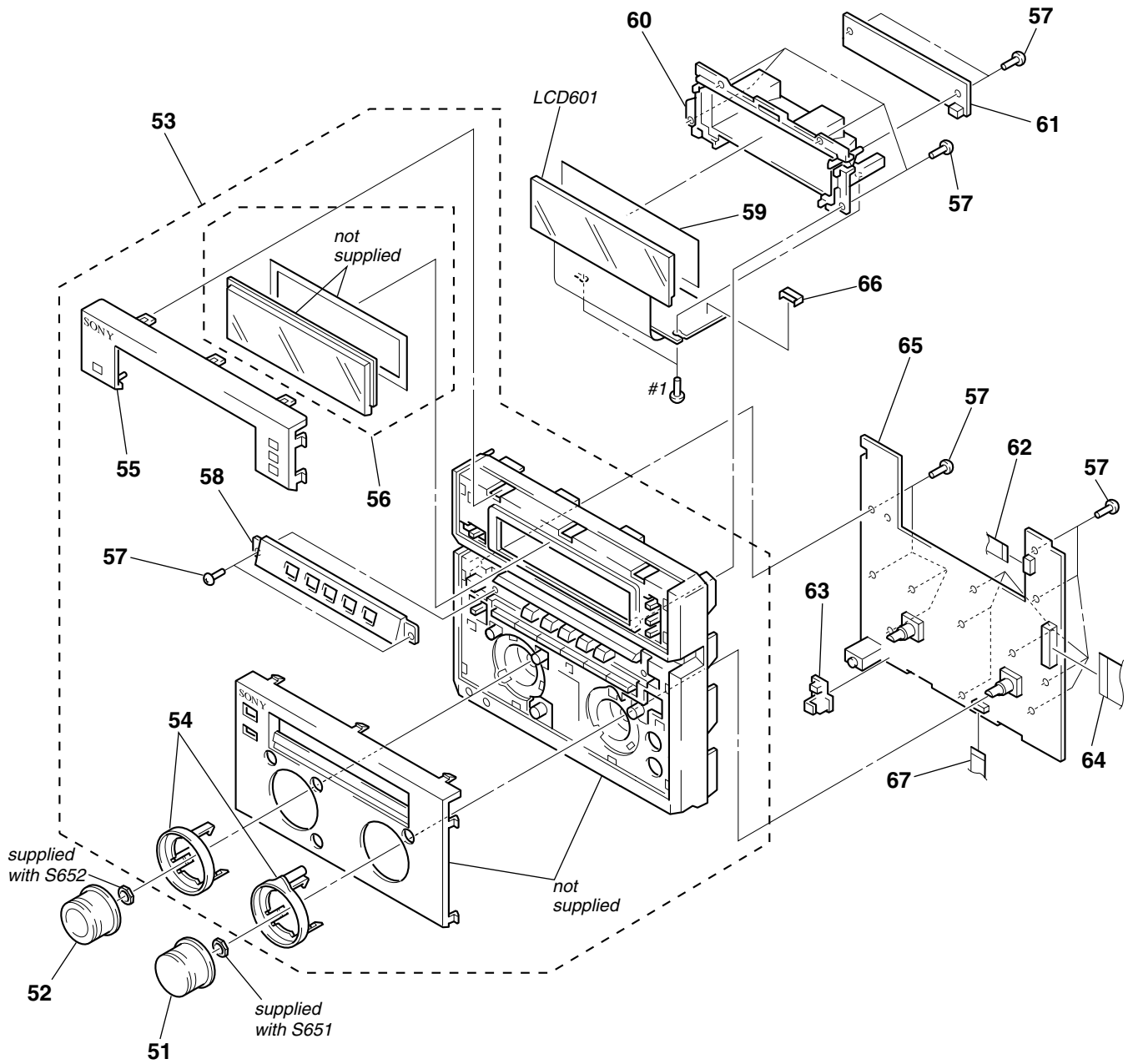
G : German model

AED : North European model



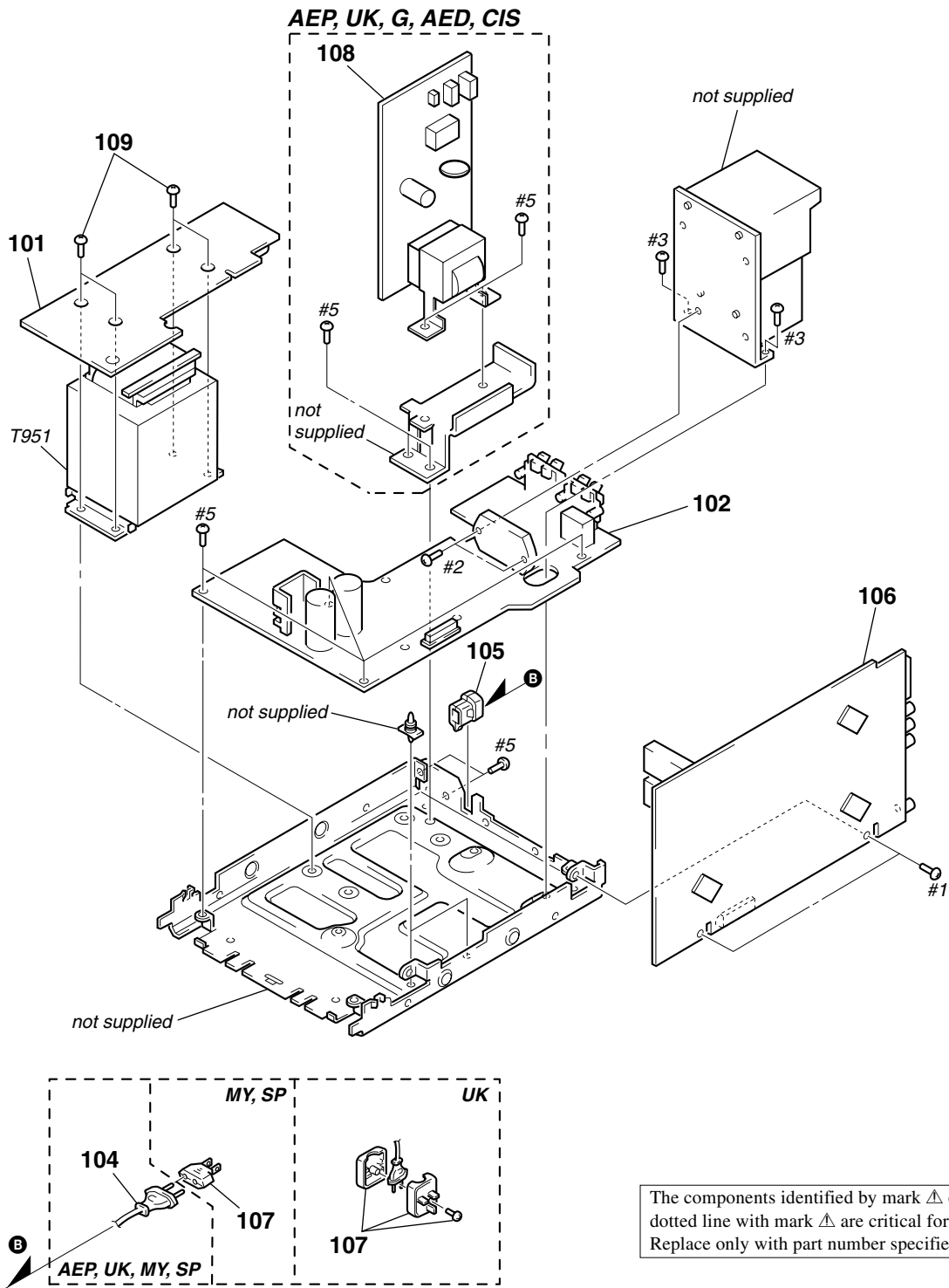


## 5-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-4951-814-2	KNOB(VOL) ASSY		60	4-221-369-01	HOLDER (LCD)	
52	X-4951-831-2	KNOB(JOG) ASSY		61	1-674-798-11	BACKLIGHT BOARD	
53	X-4952-907-1	PANEL ASSY, FRONT(AEP,UK,G,AED,CIS)		62	1-769-908-11	WIRE(FLAT TYPE) (9 CORE)	
53	X-4952-908-1	PANEL ASSY, FRONT(MY,SP)		63	1-675-197-11	R BOARD	
54	4-221-378-01	RING		64	1-773-213-11	WIRE(FLAT TYPE) (25 CORE)	
55	4-221-380-31	PANEL (ST)(AEP,UK,G,AED,CIS)		65	A-4473-303-A	PANEL BOARD, COMPLETE	
55	4-221-380-61	PANEL (ST)(MY,SP)				(AEP,UK,G,AED,CIS)	
56	X-4952-249-1	WINDOW (STR) ASSY		65	A-4473-312-A	PANEL BOARD, COMPLETE(MY,SP)	
57	4-951-620-01	SCREW (2.6X8), +BVTP		66	1-568-441-11	SOCKET, CONNECTOR 9P	
58	4-221-377-21	PLATE (TA-HL), ORNAMENTAL		67	1-769-885-11	WIRE(FLAT TYPE) (7 CORE)	
59	4-221-370-01	SHEET, DIFFUSION		LCD601	1-803-738-11	DISPLAY PANEL, LIQUID CRYSTAL	

### 5-3. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	1-674-803-11	TRANS BOARD		106	A-4473-314-A	MAIN BOARD, COMPLETE(MY,SP)	
102	A-4473-309-A	PA BOARD, COMPLETE(AEP,UK,G,AED,CIS)		△ 107	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P(UK)	
102	A-4473-318-A	PA BOARD, COMPLETE(MY,SP)		△ 107	1-569-008-21	ADAPTOR, CONVERSION(MY,SP)	
△ 104	1-777-071-51	CORD, POWER(MY,SP)		108	1-674-801-11	SUBTRANS BOARD(AEP,UK,G,AED,CIS)	
△ 104	1-777-071-61	CORD, POWER(AEP,UK,G,AED,CIS)		109	4-900-386-01	SCREW	
* 105	3-703-244-00	BUSHING (2104), CORD		△ T951	1-435-566-11	TRANSFORMER, POWER(AEP,UK,G,AED,CIS)	
106	A-4473-305-A	MAIN BOARD, COMPLETE(AEP,UK,G,AED,CIS)		△ T951	1-435-567-11	TRANSFORMER, POWER(MY,SP)	

## SECTION 6 ELECTRICAL PARTS LIST

BACK LIGHT

MAIN

**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 and -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
- Abbreviation  
MY : Malaysia model  
SP : Singapore model  
G : German model  
AED : North European model

- 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:  $\mu$ , for example:  
uA. . . :  $\mu$ A. . .      uPA. . . :  $\mu$ PA. . .  
uPB. . . :  $\mu$ PB. . .    uPC. . . :  $\mu$ PC. . .  
uPD. . . :  $\mu$ PD. . .
- CAPACITORS  
uF:  $\mu$ F
- COILS  
uH:  $\mu$ H

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	1-674-798-11	BACK LIGHT BOARD *****		C119	1-137-368-11	MYLAR	0.0047uF 5.00% 50V
		< CONNECTOR >		C120	1-137-367-11	MYLAR	0.0033uF 5.00% 50V
CN605	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE)3P  < DIODE >		C121	1-126-964-11	ELECT	10uF 20.00% 50V
D639	8-719-076-15	DIODE SELS6B14C-TP6 (LCD BACK LIGHT)		C122	1-162-291-31	CERAMIC	560PF 10.00% 50V
D640	8-719-076-15	DIODE SELS6B14C-TP6 (LCD BACK LIGHT)		C123	1-136-169-00	FILM	0.22uF 5.00% 50V
D641	8-719-076-15	DIODE SELS6B14C-TP6 (LCD BACK LIGHT)		C124	1-136-169-00	FILM	0.22uF 5.00% 50V
D642	8-719-076-15	DIODE SELS6B14C-TP6 (LCD BACK LIGHT)		C125	1-126-964-11	ELECT	10uF 20.00% 50V
		< TRANSISTOR >		C127	1-162-306-11	CERAMIC	0.01uF 30.00% 16V
Q639	8-729-900-36	TRANSISTOR BA1F4M-TP		C128	1-136-495-11	FILM	0.068uF 5.00% 50V
Q640	8-729-900-36	TRANSISTOR BA1F4M-TP		C131	1-104-664-11	ELECT	47uF 20.00% 16V
		< RESISTOR >		C132	1-104-664-11	ELECT	47uF 20.00% 16V
R639	1-249-403-11	CARBON 68 5% 1/4W F		C134	1-126-964-11	ELECT	10uF 20.00% 50V
R640	1-249-403-11	CARBON 68 5% 1/4W F		C141	1-126-959-11	ELECT	0.47uF 20.00% 50V
R670	1-247-807-31	CARBON 100 5% 1/4W		C151	1-162-286-31	CERAMIC	220PF 10% 50V
*****				C152	1-162-286-31	CERAMIC	220PF 10% 50V
A-4473-305-A	MAIN BOARD, COMPLETE (AEP,UK,G,AED,CIS) *****			C153	1-162-286-31	CERAMIC	220PF 10% 50V
A-4473-314-A	MAIN BOARD, COMPLETE (MY,SP) *****			C161	1-137-195-11	FILM	0.56uF 5.00% 50V
7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S  < CAPACITOR >			C162	1-136-158-00	FILM	0.027uF 5.00% 50V
C101	1-162-286-31	CERAMIC 220PF 10% 50V		C163	1-136-167-00	FILM	0.15uF 5.00% 50V
C102	1-162-286-31	CERAMIC 220PF 10% 50V		C164	1-137-437-11	MYLAR	0.0056uF 5.00% 50V
C103	1-162-286-31	CERAMIC 220PF 10% 50V		C165	1-136-159-00	FILM	0.033uF 5.00% 50V
C104	1-164-159-11	CERAMIC 0.1uF 50V		C166	1-137-365-11	MYLAR	0.0015uF 5.00% 50V
C105	1-164-159-11	CERAMIC 0.1uF 50V	(AEP,UK,G,AED,CIS)	C167	1-136-153-00	FILM	0.01uF 5% 50V
C111	1-137-195-11	FILM 0.56uF 5.00% 50V		C168	1-162-288-31	CERAMIC	330PF 10% 50V
C112	1-136-158-00	FILM 0.027uF 5.00% 50V		C169	1-137-368-11	MYLAR	0.0047uF 5.00% 50V
C113	1-136-167-00	FILM 0.15uF 5.00% 50V		C170	1-137-367-11	MYLAR	0.0033uF 5.00% 50V
C114	1-137-437-11	MYLAR 0.0056uF 5.00% 50V		C171	1-126-964-11	ELECT	10uF 20.00% 50V
C115	1-136-159-00	FILM 0.033uF 5.00% 50V		C172	1-162-291-31	CERAMIC	560PF 10.00% 50V
C116	1-137-365-11	MYLAR 0.0015uF 5.00% 50V		C173	1-136-169-00	FILM	0.22uF 5.00% 50V
C117	1-136-153-00	FILM 0.01uF 5% 50V		C174	1-136-169-00	FILM	0.22uF 5.00% 50V
C118	1-162-288-31	CERAMIC 330PF 10% 50V		C175	1-126-964-11	ELECT	10uF 20.00% 50V
				C191	1-162-286-31	CERAMIC	220PF 10% 50V
				C280	1-126-964-11	ELECT	10uF 20.00% 50V
				C420	1-110-518-91	ELECT	10uF 20.00% 100V
				C421	1-107-717-11	ELECT	47uF 20.00% 50V
				C431	1-164-159-11	CERAMIC	0.1uF 50V
				C432	1-126-963-11	ELECT	4.7uF 20.00% 50V
				C437	1-126-964-11	ELECT	10uF 20.00% 50V
				C438	1-162-303-11	CERAMIC	0.0033uF 30.00% 16V
				C439	1-126-964-11	ELECT	10uF 20.00% 50V
				C440	1-126-964-11	ELECT	10uF 20.00% 50V
				C441	1-126-963-11	ELECT	4.7uF 20.00% 50V
				C470	1-110-518-91	ELECT	10uF 20.00% 100V
				C501	1-126-964-11	ELECT	10uF 20.00% 50V

# MAIN

Ref. No.	Part No.	Description	Remark		Ref. No.	Part No.	Description	Remark
C502	1-164-159-11	CERAMIC	0.1uF	50V	D508	8-719-911-19	DIODE 1SS133T-72	
C503	1-136-165-00	FILM	0.1uF	5.00% 50V	D510	8-719-911-19	DIODE 1SS133T-72 (AEP,UK,G,AED,CIS)	
C505	1-126-916-11	ELECT	1000uF	20.00% 6.3V	D901	8-719-024-99	DIODE 11ES2-NTA2B	
C506	1-162-306-11	CERAMIC	0.01uF	30.00% 16V	D902	8-719-024-99	DIODE 11ES2-NTA2B	
C507	1-107-713-11	ELECT	4.7uF	20.00% 35V	D903	8-719-024-99	DIODE 11ES2-NTA2B	
C511	1-162-205-31	CERAMIC	18PF	5% 50V	D904	8-719-024-99	DIODE 11ES2-NTA2B	
C512	1-162-203-31	CERAMIC	15PF	5.00% 50V	D905	8-719-911-19	DIODE 1SS133T-72	
C513	1-162-306-11	CERAMIC	0.01uF	30.00% 16V	D906	8-719-921-48	DIODE MTZJ-T-72-5.6C	
C514	1-162-306-11	CERAMIC	0.01uF	30.00% 16V	D914	8-719-911-19	DIODE 1SS133T-72 (MY,SP)	
C515	1-104-665-11	ELECT	100uF	20.00% 10V	D915	8-719-024-99	DIODE 11ES2-NTA2B (MY,SP)	
C521	1-104-665-11	ELECT	100uF	20.00% 10V	D920	8-719-024-99	DIODE 11ES2-NTA2B	
C522	1-162-306-11	CERAMIC	0.01uF	30.00% 16V	D921	8-719-110-23	DIODE MTZJ-T-72-11C	
C523	1-126-961-11	ELECT	2.2uF	20.00% 50V	D925	8-719-024-99	DIODE 11ES2-NTA2B	
C523	1-126-964-11	ELECT	10uF	20.00% 50V	D931	8-719-911-19	DIODE 1SS133T-72	
C901	1-136-165-00	FILM	0.1uF	5.00% 50V	D932	8-719-911-19	DIODE 1SS133T-72	
C902	1-126-936-11	ELECT	3300uF	20.00% 16V			< EARTH TERMINAL >	
C903	1-126-934-11	ELECT	220uF	20.00% 16V	* EP901	1-537-738-21	TERMINAL, EARTH	
C904	1-126-924-11	ELECT	330uF	20.00% 10V	* EP902	1-537-738-21	TERMINAL, EARTH	
C905	1-104-664-11	ELECT	47uF	20.00% 16V			< IC >	
C908	1-126-964-11	ELECT	10uF	20.00% 50V	IC101	8-759-571-54	IC M62493FP	
C909	1-126-916-11	ELECT	1000uF	20.00% 6.3V	IC401	8-759-083-77	IC BA3830F	
C920	1-126-767-11	ELECT	1000uF	20.00% 16V	IC501	8-759-668-66	IC M30622MAA-A39FP	
C921	1-126-941-11	ELECT	470uF	20.00% 25V	IC502	8-759-635-63	IC M51943BSL-TP	
C922	1-126-952-11	ELECT	1000uF	20.00% 35V	IC901	8-759-231-53	IC M5F7805L	
C923	1-164-159-11	CERAMIC	0.1uF	50V	IC921	8-759-231-58	IC M5F7812L	
C924	1-126-786-11	ELECT	47uF	20.00% 16V			< JACK >	
C926	1-126-916-11	ELECT	1000uF	20.00% 6.3V	J101	1-784-275-11	JACK, PIN 6P (VIDEO (AUDIO) IN/MD IN/MD OUT)	
C927	1-126-933-11	ELECT	100uF	20.00% 16V	J191	1-774-785-11	JACK, PIN 1P (SUPER WOOFER OUT)	
C931	1-126-961-11	ELECT	2.2uF	20.00% 50V			< COIL >	
C941	1-164-159-11	CERAMIC	0.1uF	50V	L436	1-410-517-11	INDUCTOR 47uH	
C951	1-136-165-00	FILM	0.1uF	5.00% 50V	L501	1-410-509-11	INDUCTOR 10uH	
C952	1-126-768-11	ELECT	2200uF	20.00% 16V			< TRANSISTOR >	
C953	1-126-934-11	ELECT	220uF	20.00% 16V	Q112	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
C954	1-126-924-11	ELECT	330uF	20.00% 10V	Q113	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
		< CONNECTOR >			Q114	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
CN101	1-793-351-11	SOCKET, CONNECTOR 19P			Q162	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
* CN111	1-564-506-11	PLUG, CONNECTOR 3P			Q163	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
CN121	1-784-774-11	CONNECTOR, FFC 13P(MY,SP)			Q164	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
CN121	1-784-776-11	CONNECTOR, FFC 15P(AEP,UK,G,AED,CIS)			Q191	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
CN131	1-784-786-11	CONNECTOR, FFC 25P			Q411	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
CN132	1-568-826-11	CONNECTOR, FFC 7P			Q421	8-729-900-63	TRANSISTOR BN1F4M-TP	
CN141	1-506-468-11	PIN, CONNECTOR 3P(AEP,UK,G,AED,CIS)			Q431	8-729-111-29	TRANSISTOR 2SD1616-TP-LK	
CN152	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P			Q432	8-729-119-76	TRANSISTOR 2SA1175TP-HFE	
* CN173	1-564-506-11	PLUG, CONNECTOR 3P			Q461	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
* CN181	1-564-506-11	PLUG, CONNECTOR 3P			Q501	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
		< DIODE >			Q502	8-729-900-63	TRANSISTOR BN1F4M-TP	
D141	8-719-911-19	DIODE 1SS133T-72			Q503	8-729-900-63	TRANSISTOR BN1F4M-TP	
D501	8-719-911-19	DIODE 1SS133T-72			Q901	8-729-018-60	TRANSISTOR 2SD2012-LC	
D502	8-719-911-19	DIODE 1SS133T-72			Q902	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
D503	8-719-911-19	DIODE 1SS133T-72			Q903	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
D504	8-719-911-19	DIODE 1SS133T-72			Q904	8-729-900-36	TRANSISTOR BA1F4M-TP	
D505	8-719-911-19	DIODE 1SS133T-72			Q905	8-729-900-36	TRANSISTOR BA1F4M-TP	
D506	8-719-911-19	DIODE 1SS133T-72						
D507	8-719-911-19	DIODE 1SS133T-72						

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q906	8-729-040-20	TRANSISTOR RT1P137L-TP		R193	1-249-417-11	CARBON	1K 5% 1/4W F
Q907	8-729-900-36	TRANSISTOR BA1F4M-TP		R194	1-249-429-11	CARBON	10K 5% 1/4W
Q921	8-729-026-68	TRANSISTOR 2SD2525(TP)		R411	1-260-089-11	CARBON	150 5% 1/2W
Q926	8-729-040-20	TRANSISTOR RT1P137L-TP	(AEP,UK,G,AED,CIS)				
Q927	8-729-900-36	TRANSISTOR BA1F4M-TP(AEP,UK,G,AED,CIS)		R411	1-260-319-51	CARBON	180 5% 1/2W (MY,SP)
Q951	8-729-018-59	TRANSISTOR 2SB1375(LB-SONY)		R412	1-260-089-11	CARBON	150 5% 1/2W (AEP,UK,G,AED,CIS)
Q952	8-729-119-76	TRANSISTOR 2SA1175TP-HFE					
Q953	8-729-119-76	TRANSISTOR 2SA1175TP-HFE		R412	1-260-319-51	CARBON	180 5% 1/2W (MY,SP)
< RESISTOR >							
R101	1-249-417-11	CARBON	1K 5% 1/4W F	R413	1-260-084-11	CARBON	56 5% 1/2W
R102	1-249-417-11	CARBON	1K 5% 1/4W F	R414	1-249-417-11	CARBON	1K 5% 1/4W F
R103	1-249-417-11	CARBON	1K 5% 1/4W F	R415	1-249-429-11	CARBON	10K 5% 1/4W
R105	1-247-807-31	CARBON	100 5% 1/4W	R416	1-249-437-11	CARBON	47K 5% 1/4W
R106	1-247-807-31	CARBON	100 5% 1/4W	R417	1-249-417-11	CARBON	1K 5% 1/4W F
R111	1-249-421-11	CARBON	2.2K 5% 1/4W F	R418	1-260-089-11	CARBON	150 5% 1/2W (AEP,UK,G,AED,CIS)
R112	1-249-429-11	CARBON	10K 5% 1/4W	R418	1-260-319-51	CARBON	180 5% 1/2W (MY,SP)
R114	1-247-895-00	CARBON	470K 5% 1/4W	R431	1-249-421-11	CARBON	2.2K 5% 1/4W F
R115	1-247-899-11	CARBON	680K 5% 1/4W	R432	1-249-425-11	CARBON	4.7K 5% 1/4W F
R117	1-249-414-11	CARBON	560 5% 1/4W F	R433	1-249-441-11	CARBON	100K 5% 1/4W
R118	1-249-429-11	CARBON	10K 5% 1/4W	R436	1-247-893-11	CARBON	390K 5% 1/4W
R119	1-249-438-11	CARBON	56K 5% 1/4W	R437	1-247-893-11	CARBON	390K 5% 1/4W
R120	1-249-429-11	CARBON	10K 5% 1/4W	R438	1-249-441-11	CARBON	100K 5% 1/4W
R121	1-249-437-11	CARBON	47K 5% 1/4W	R440	1-249-437-11	CARBON	47K 5% 1/4W
R122	1-249-421-11	CARBON	2.2K 5% 1/4W F	R441	1-249-441-11	CARBON	100K 5% 1/4W
R123	1-249-441-11	CARBON	100K 5% 1/4W	R442	1-249-440-11	CARBON	82K 5% 1/4W
R124	1-249-425-11	CARBON	4.7K 5% 1/4W	R443	1-249-420-11	CARBON	1.8K 5% 1/4W F
R126	1-249-421-11	CARBON	2.2K 5% 1/4W F	R444	1-249-429-11	CARBON	10K 5% 1/4W
R128	1-247-903-00	CARBON	1M 5% 1/4W	R447	1-249-435-11	CARBON	33K 5% 1/4W
R131	1-247-807-31	CARBON	100 5% 1/4W	R448	1-247-895-00	CARBON	470K 5% 1/4W
R132	1-247-807-31	CARBON	100 5% 1/4W	R461	1-260-089-11	CARBON	150 5% 1/2W (AEP,UK,G,AED,CIS)
R133	1-247-807-31	CARBON	100 5% 1/4W	R461	1-260-319-51	CARBON	180 5% 1/2W (MY,SP)
R141	1-249-433-11	CARBON	22K 5% 1/4W	R462	1-260-089-11	CARBON	150 5% 1/2W (AEP,UK,G,AED,CIS)
R142	1-249-433-11	CARBON	22K 5% 1/4W	R462	1-260-319-51	CARBON	180 5% 1/2W (MY,SP)
R143	1-249-417-11	CARBON	1K 5% 1/4W F	R463	1-260-084-11	CARBON	56 5% 1/2W
R144	1-249-441-11	CARBON	100K 5% 1/4W	R464	1-249-417-11	CARBON	1K 5% 1/4W F
R145	1-247-903-00	CARBON	1M 5% 1/4W	R468	1-260-089-11	CARBON	150 5% 1/2W (AEP,UK,G,AED,CIS)
R151	1-249-417-11	CARBON	1K 5% 1/4W F	R468	1-260-319-51	CARBON	180 5% 1/2W (MY,SP)
R152	1-249-417-11	CARBON	1K 5% 1/4W F	R501	1-249-413-11	CARBON	470 5% 1/4W F
R153	1-249-417-11	CARBON	1K 5% 1/4W F	R502	1-249-425-11	CARBON	4.7K 5% 1/4W F
R155	1-247-807-31	CARBON	100 5% 1/4W	R503	1-249-437-11	CARBON	47K 5% 1/4W
R156	1-247-807-31	CARBON	100 5% 1/4W	R504	1-249-437-11	CARBON	47K 5% 1/4W
R161	1-249-421-11	CARBON	2.2K 5% 1/4W F	R505	1-249-429-11	CARBON	10K 5% 1/4W
R162	1-249-429-11	CARBON	10K 5% 1/4W	R506	1-249-409-11	CARBON	220 5% 1/4W F
R164	1-247-895-00	CARBON	470K 5% 1/4W	R507	1-249-441-11	CARBON	100K 5% 1/4W
R165	1-247-899-11	CARBON	680K 5% 1/4W	R510	1-249-429-11	CARBON	10K 5% 1/4W
R167	1-249-414-11	CARBON	560 5% 1/4W F	R511	1-247-891-00	CARBON	330K 5% 1/4W
R168	1-249-429-11	CARBON	10K 5% 1/4W	R513	1-249-429-11	CARBON	10K 5% 1/4W
R169	1-249-438-11	CARBON	56K 5% 1/4W	R514	1-247-807-31	CARBON	100 5% 1/4W
R170	1-249-429-11	CARBON	10K 5% 1/4W	R515	1-249-425-11	CARBON	4.7K 5% 1/4W F
R171	1-249-437-11	CARBON	47K 5% 1/4W				
R172	1-249-421-11	CARBON	2.2K 5% 1/4W F	R516	1-249-429-11	CARBON	10K 5% 1/4W
R173	1-249-441-11	CARBON	100K 5% 1/4W	R517	1-247-807-31	CARBON	100 5% 1/4W
R174	1-249-425-11	CARBON	4.7K 5% 1/4W				
R178	1-247-903-00	CARBON	1M 5% 1/4W				
R191	1-249-417-11	CARBON	1K 5% 1/4W F				
R192	1-249-441-11	CARBON	100K 5% 1/4W				

Ref. No.	Part No.	Description	Remark
R518	1-249-425-11	CARBON	4.7K 5% 1/4W F
R519	1-249-425-11	CARBON	4.7K 5% 1/4W F
R520	1-247-807-31	CARBON	100 5% 1/4W
R521	1-247-807-31	CARBON	100 5% 1/4W
R527	1-247-807-31	CARBON	100 5% 1/4W
R528	1-247-807-31	CARBON	100 5% 1/4W
R530	1-247-807-31	CARBON	100 5% 1/4W
R531	1-247-807-31	CARBON	100 5% 1/4W
R532	1-249-429-11	CARBON	10K 5% 1/4W
R534	1-247-807-31	CARBON	100 5% 1/4W (AEP,UK,G,AED,CIS)
R535	1-249-429-11	CARBON	10K 5% 1/4W
R536	1-249-417-11	CARBON	1K 5% 1/4W F
R537	1-249-429-11	CARBON	10K 5% 1/4W
R538	1-247-807-31	CARBON	100 5% 1/4W
R539	1-247-843-11	CARBON	3.3K 5% 1/4W
R543	1-249-429-11	CARBON	10K 5% 1/4W
R544	1-249-429-11	CARBON	10K 5% 1/4W
R546	1-247-807-31	CARBON	100 5% 1/4W
R547	1-247-807-31	CARBON	100 5% 1/4W
R548	1-247-807-31	CARBON	100 5% 1/4W
R549	1-247-807-31	CARBON	100 5% 1/4W
R550	1-247-807-31	CARBON	100 5% 1/4W
R551	1-247-807-31	CARBON	100 5% 1/4W
R552	1-249-429-11	CARBON	10K 5% 1/4W
R553	1-247-807-31	CARBON	100 5% 1/4W
R554	1-247-807-31	CARBON	100 5% 1/4W
R555	1-247-807-31	CARBON	100 5% 1/4W
R556	1-247-807-31	CARBON	100 5% 1/4W
R557	1-247-807-31	CARBON	100 5% 1/4W
R558	1-247-807-31	CARBON	100 5% 1/4W
R559	1-247-807-31	CARBON	100 5% 1/4W
R560	1-249-429-11	CARBON	10K 5% 1/4W
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
R566	1-247-807-31	CARBON	100 5% 1/4W
R567	1-247-807-31	CARBON	100 5% 1/4W
R568	1-247-807-31	CARBON	100 5% 1/4W
R570	1-247-807-31	CARBON	100 5% 1/4W
R571	1-247-807-31	CARBON	100 5% 1/4W
R572	1-247-807-31	CARBON	100 5% 1/4W
R573	1-247-807-31	CARBON	100 5% 1/4W
R574	1-249-429-11	CARBON	10K 5% 1/4W
R575	1-249-429-11	CARBON	10K 5% 1/4W
R581	1-249-425-11	CARBON	4.7K 5% 1/4W F
R582	1-249-419-11	CARBON	1.5K 5% 1/4W F
R583	1-249-415-11	CARBON	680 5% 1/4W F (AEP,UK,G,AED,CIS)
R583	1-249-425-11	CARBON	4.7K 5% 1/4W F (MY,SP)
R584	1-249-411-11	CARBON	330 5% 1/4W (MY,SP)
R584	1-249-425-11	CARBON	4.7K 5% 1/4W F (AEP,UK,G,AED,CIS)
R585	1-247-807-31	CARBON	100 5% 1/4W
R586	1-247-807-31	CARBON	100 5% 1/4W
R587	1-247-807-31	CARBON	100 5% 1/4W

Ref. No.	Part No.	Description	Remark
R588	1-247-807-31	CARBON	100 5% 1/4W (AEP,UK,G,AED,CIS)
R589	1-247-807-31	CARBON	100 5% 1/4W (AEP,UK,G,AED,CIS)
R901	1-247-843-11	CARBON	3.3K 5% 1/4W
R902	1-249-415-11	CARBON	680 5% 1/4W F
R903	1-249-383-11	CARBON	1.5 5% 1/6W F
R905	1-249-419-11	CARBON	1.5K 5% 1/4W F
R906	1-249-414-11	CARBON	560 5% 1/4W F
R907	1-249-425-11	CARBON	4.7K 5% 1/4W F
R908	1-249-429-11	CARBON	10K 5% 1/4W
R909	1-249-430-11	CARBON	12K 5% 1/4W
R910	1-249-429-11	CARBON	10K 5% 1/4W
R920	1-249-417-11	CARBON	1K 5% 1/4W F
R921	1-249-409-11	CARBON	220 5% 1/4W F
R931	1-249-425-11	CARBON	4.7K 5% 1/4W F
R932	1-249-425-11	CARBON	4.7K 5% 1/4W F
R933	1-249-433-11	CARBON	22K 5% 1/4W
R951	1-247-843-11	CARBON	3.3K 5% 1/4W
R952	1-249-415-11	CARBON	680 5% 1/4W F
R953	1-249-383-11	CARBON	1.5 5% 1/6W F
< VIBRATOR >			
X511	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)	
X512	1-781-107-21	VIBRATOR, SERAMIC (16MHz)	
*****			
A-4473-309-A	PA BOARD, COMPLETE (AEP,UK,G,AED,CIS) *****		
A-4473-318-A	PA BOARD, COMPLETE (MY,SP) *****		
7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S		
< CAPACITOR >			
C801	1-128-582-11	ELECT	10uF 20.00% 100V
C802	1-162-292-31	CERAMIC	680PF 10% 50V
C803	1-162-286-31	CERAMIC	220PF 10% 50V
C804	1-126-967-11	ELECT	47uF 20.00% 50V
C806	1-128-560-11	ELECT	22uF 20.00% 100V
C807	1-128-582-11	ELECT	10uF 20.00% 100V
C808	1-136-495-11	FILM	0.068uF 5.00% 50V
C809	1-136-495-11	FILM	0.068uF 5.00% 50V
C810	1-136-165-00	FILM	0.1uF 5.00% 50V (AEP,UK,G,AED,CIS)
C811	1-136-165-00	FILM	0.1uF 5.00% 50V (AEP,UK,G,AED,CIS)
C812	1-161-494-00	CERAMIC	0.022uF 25V (AEP,UK,G,AED,CIS)
C821	1-128-562-11	ELECT	47uF 20.00% 100V
C822	1-162-306-11	CERAMIC	0.01uF 30.00% 16V
C823	1-162-294-31	CERAMIC	0.001uF 10% 50V
C825	1-104-665-11	ELECT	100uF 20.00% 10V
C826	1-126-961-11	ELECT	2.2uF 20.00% 50V
C827	1-104-665-11	ELECT	100uF 20.00% 10V
C831	1-126-968-11	ELECT	100uF 20.00% 50V
C851	1-128-582-11	ELECT	10uF 20.00% 100V
C852	1-162-292-31	CERAMIC	680PF 10% 50V
C853	1-162-286-31	CERAMIC	220PF 10% 50V



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C854	1-126-967-11	ELECT	47uF 20.00% 50V	Q829	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
C856	1-128-560-11	ELECT	22uF 20.00% 100V	Q830	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
C857	1-128-582-11	ELECT	10uF 20.00% 100V	Q831	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
C858	1-136-495-11	FILM	0.068uF 5.00% 50V	Q851	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
C859	1-136-495-11	FILM	0.068uF 5.00% 50V	Q881	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
C860	1-136-165-00	FILM	0.1uF 5.00% 50V (AEP,UK,G,AED,CIS)	Q882	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
C861	1-136-165-00	FILM	0.1uF 5.00% 50V (AEP,UK,G,AED,CIS)	< RESISTOR >			
C862	1-161-494-00	CERAMIC	0.022uF 25V (AEP,UK,G,AED,CIS)	R801	1-249-417-11	CARBON 1K 5% 1/4W F	
C880	1-126-163-11	ELECT	4.7uF 20% 50V	R802	1-249-438-11	CARBON 56K 5% 1/4W	
C883	1-127-752-11	ELECT	3300uF 20% 63V (AEP,UK,G,AED,CIS)	R803	1-249-414-11	CARBON 560 5% 1/4W F	
C883	1-127-813-11	ELECT	3300uF 20% 71V (MY,SP)	R804	1-249-438-11	CARBON 56K 5% 1/4W	
C884	1-127-752-11	ELECT	3300uF 20% 63V (AEP,UK,G,AED,CIS)	△ R805	1-212-881-11	FUSIBLE 100 5% 1/4W	
C884	1-127-813-11	ELECT	3300uF 20% 71V (MY,SP)	△ R807	1-217-156-00	METAL 0.22 10% 5W	
C887	1-130-777-00	MYLAR	0.1uF 10.00% 100V	R808	1-249-417-11	CARBON 1K 5% 1/4W F	
C888	1-130-777-00	MYLAR	0.1uF 10.00% 100V	R809	1-249-431-11	CARBON 15K 5% 1/4W	
C889	1-162-306-11	CERAMIC	0.01uF 30.00% 16V	R810	1-249-441-11	CARBON 100K 5% 1/4W	
< CONNECTOR >				R811	1-260-076-11	CARBON 10 5% 1/2W	
CN802	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P		R812	1-260-076-11	CARBON 10 5% 1/2W (AEP,UK,G,AED,CIS)	
CN808	1-691-766-11	PLUG (MICRO CONNECTOR) 4P		R813	1-260-076-11	CARBON 10 5% 1/2W (AEP,UK,G,AED,CIS)	
< DIODE >				R814	1-249-437-11	CARBON 47K 5% 1/4W	
D802	8-719-911-19	DIODE 1SS133T-72		R821	1-249-435-11	CARBON 33K 5% 1/4W	
D821	8-719-911-19	DIODE 1SS133T-72		R822	1-249-435-11	CARBON 33K 5% 1/4W	
D831	8-719-911-19	DIODE 1SS133T-72		R823	1-249-439-11	CARBON 68K 5% 1/4W	
D852	8-719-911-19	DIODE 1SS133T-72		R824	1-249-421-11	CARBON 2.2K 5% 1/4W F	
D871	8-719-911-19	DIODE 1SS133T-72		R825	1-249-433-11	CARBON 22K 5% 1/4W	
D881	8-719-510-68	DIODE D5SBA204101		R826	1-249-429-11	CARBON 10K 5% 1/4W	
D883	8-719-911-19	DIODE 1SS133T-72		R827	1-249-433-11	CARBON 22K 5% 1/4W	
< EARTH TERMINAL >				△ R828	1-202-972-61	FUSIBLE 1 5% 1/4W	
* EP802	1-537-738-21	TERMINAL, EARTH		R829	1-249-441-11	CARBON 100K 5% 1/4W	
* EP803	1-537-738-21	TERMINAL, EARTH (AEP,UK,G,AED,CIS)		R830	1-249-441-11	CARBON 100K 5% 1/4W	
< IC >				R831	1-249-429-11	CARBON 10K 5% 1/4W (AEP,UK,G,AED,CIS)	
IC801	8-749-015-39	IC STK407-120E		R831	1-249-430-11	CARBON 12K 5% 1/4W (MY,SP)	
< COIL >				R832	1-249-431-11	CARBON 15K 5% 1/4W	
L801	1-420-872-00	COIL, AIR-CORE (AEP,UK,G,AED,CIS)		R833	1-249-435-11	CARBON 33K 5% 1/4W	
L851	1-420-872-00	COIL, AIR-CORE (AEP,UK,G,AED,CIS)		R836	1-249-425-11	CARBON 4.7K 5% 1/4W F	
< TRANSISTOR >				R837	1-249-433-11	CARBON 22K 5% 1/4W	
Q801	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA		R838	1-249-435-11	CARBON 33K 5% 1/4W	
Q821	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA		R839	1-249-429-11	CARBON 10K 5% 1/4W	
Q822	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA		R840	1-249-429-11	CARBON 10K 5% 1/4W	
Q823	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA		R841	1-249-437-11	CARBON 47K 5% 1/4W	
Q824	8-729-119-78	TRANSISTOR 2SC2785TP-HFE		R842	1-249-438-11	CARBON 56K 5% 1/4W	
Q825	8-729-119-78	TRANSISTOR 2SC2785TP-HFE		△ R850	1-202-972-61	FUSIBLE 1 5% 1/4W	
Q826	8-729-119-78	TRANSISTOR 2SC2785TP-HFE		R851	1-249-417-11	CARBON 1K 5% 1/4W F	
Q827	8-729-119-78	TRANSISTOR 2SC2785TP-HFE		R852	1-249-438-11	CARBON 56K 5% 1/4W	
Q828	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA		R853	1-249-414-11	CARBON 560 5% 1/4W F	
				R854	1-249-438-11	CARBON 56K 5% 1/4W	
				△ R855	1-212-881-11	FUSIBLE 100 5% 1/4W	
				△ R857	1-217-156-00	METAL 0.22 10% 5W	
				R858	1-249-417-11	CARBON 1K 5% 1/4W F	
				R859	1-249-431-11	CARBON 15K 5% 1/4W	
				R860	1-249-441-11	CARBON 100K 5% 1/4W	
				R861	1-260-076-11	CARBON 10 5% 1/2W	

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**PA** **PANEL**

Ref. No.	Part No.	Description	Remark		
R862	1-260-076-11	CARBON	10	5%	1/2W (AEP,UK,G,AED,CIS)
R863	1-260-076-11	CARBON	10	5%	1/2W (AEP,UK,G,AED,CIS)
R864	1-249-437-11	CARBON	47K	5%	1/4W
R881	1-249-429-11	CARBON	10K	5%	1/4W
R882	1-249-437-11	CARBON	47K	5%	1/4W
R883	1-249-429-11	CARBON	10K	5%	1/4W
R884	1-249-441-11	CARBON	100K	5%	1/4W
△R885	1-216-481-11	METAL OXIDE	1.2K	5%	3W
< RELAY >					
RY881	1-755-168-11	RELAY			
< TERMINAL >					
TM801	1-537-240-11	TERMINAL BOARD (CHECKER PIN)			
TM802	1-537-240-11	TERMINAL BOARD (CHECKER PIN)			
*****					
A-4473-303-A	PANEL BOARD, COMPLETE		(AEP,UK,G,AED,CIS)		
*****					
A-4473-312-A	PANEL BOARD, COMPLETE (MY,SP)		*****		
< CAPACITOR >					
C601	1-164-159-11	CERAMIC	0.1uF		50V
C651	1-164-159-11	CERAMIC	0.1uF		50V
C652	1-104-664-11	ELECT	47uF	20.00%	16V
C653	1-162-306-11	CERAMIC	0.01uF	30.00%	16V
C654	1-162-306-11	CERAMIC	0.01uF	30.00%	16V
C655	1-162-306-11	CERAMIC	0.01uF	30.00%	16V
C656	1-162-306-11	CERAMIC	0.01uF	30.00%	16V
C657	1-104-664-11	ELECT	47uF	20.00%	16V
C658	1-104-664-11	ELECT	47uF	20.00%	16V
C659	1-104-664-11	ELECT	47uF	20.00%	16V
C660	1-164-159-11	CERAMIC	0.1uF		50V
C701	1-162-294-31	CERAMIC	0.001uF	10%	50V
C702	1-162-294-31	CERAMIC	0.001uF	10%	50V
C703	1-164-159-11	CERAMIC	0.1uF		50V
C741	1-164-159-11	CERAMIC	0.1uF		50V
< CONNECTOR >					
CN601	1-784-731-11	CONNECTOR, FFC 9P			
CN602	1-784-747-11	CONNECTOR, FFC 25P			
CN603	1-568-850-11	CONNECTOR, FFC 7P			
* CN606	1-560-666-00	PIN, CONNECTOR 3P			
CN608	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P			
< DIODE >					
D631	8-719-076-21	DIODE SEL5255S-TP15 (GROOVE)			
D636	8-719-076-21	DIODE SEL5255S-TP15 (ENTER)			
D637	8-719-076-21	DIODE SEL5255S-TP15 (TIMER)	(AEP,UK,G,AED,CIS)		
D638	8-719-076-21	DIODE SEL5255S-TP15 (I/⊂)			
D643	8-719-076-15	DIODE SELS6B14C-TP6 (KEY ILLUMINATION)			
D644	8-719-076-15	DIODE SELS6B14C-TP6 (KEY ILLUMINATION)			
D645	8-719-076-15	DIODE SELS6B14C-TP6 (KEY ILLUMINATION)			
D646	8-719-076-15	DIODE SELS6B14C-TP6 (KEY ILLUMINATION)			

Ref. No.	Part No.	Description	Remark		
D647	8-719-076-15	DIODE SELS6B14C-TP6 (KEY ILLUMINATION)			
D648	8-719-076-15	DIODE SELS6B14C-TP6 (KEY ILLUMINATION)			
< EARTH TERMINAL >					
* EPT601	1-537-738-21	TERMINAL, EARTH			
* EPT602	1-537-738-21	TERMINAL, EARTH			
< JACK >					
J701	1-785-569-11	JACK (SMALL TYPE) (PHONES)			
< COIL >					
L601	1-410-509-11	INDUCTOR 10uH			
< TRANSISTOR >					
Q631	8-729-900-36	TRANSISTOR BA1F4M-TP			
Q636	8-729-900-36	TRANSISTOR BA1F4M-TP			
Q637	8-729-900-36	TRANSISTOR BA1F4M-TP (AEP,UK,G,AED,CIS)			
Q638	8-729-900-36	TRANSISTOR BA1F4M-TP			
Q641	8-729-900-36	TRANSISTOR BA1F4M-TP			
Q642	8-729-900-36	TRANSISTOR BA1F4M-TP			
Q643	8-729-900-36	TRANSISTOR BA1F4M-TP			
< RESISTOR >					
R602	1-249-411-11	CARBON	330	5%	1/4W
R603	1-249-413-11	CARBON	470	5%	1/4W F
R604	1-249-414-11	CARBON	560	5%	1/4W F
R605	1-249-415-11	CARBON	680	5%	1/4W F
R606	1-249-417-11	CARBON	1K	5%	1/4W F
R607	1-249-418-11	CARBON	1.2K	5%	1/4W F
R608	1-249-420-11	CARBON	1.8K	5%	1/4W F
R609	1-249-422-11	CARBON	2.7K	5%	1/4W F
R610	1-247-843-11	CARBON	3.3K	5%	1/4W
R611	1-249-425-11	CARBON	4.7K	5%	1/4W F
R612	1-249-427-11	CARBON	6.8K	5%	1/4W F
R613	1-249-429-11	CARBON	10K	5%	1/4W
R614	1-249-431-11	CARBON	15K	5%	1/4W
R616	1-249-411-11	CARBON	330	5%	1/4W
R617	1-249-413-11	CARBON	470	5%	1/4W F
R618	1-249-414-11	CARBON	560	5%	1/4W F
R619	1-249-415-11	CARBON	680	5%	1/4W F
R620	1-249-417-11	CARBON	1K	5%	1/4W F
R621	1-249-418-11	CARBON	1.2K	5%	1/4W F
R622	1-249-420-11	CARBON	1.8K	5%	1/4W F
R626	1-249-410-11	CARBON	270	5%	1/4W F
R627	1-249-410-11	CARBON	270	5%	1/4W F
R631	1-249-411-11	CARBON	330	5%	1/4W
R636	1-249-411-11	CARBON	330	5%	1/4W
R637	1-249-411-11	CARBON	330	5%	1/4W (AEP,UK,G,AED,CIS)
R638	1-249-411-11	CARBON	330	5%	1/4W
R641	1-249-403-11	CARBON	68	5%	1/4W F
R642	1-249-403-11	CARBON	68	5%	1/4W F
R643	1-249-403-11	CARBON	68	5%	1/4W F
R651	1-249-401-11	CARBON	47	5%	1/4W F
R652	1-249-429-11	CARBON	10K	5%	1/4W
R653	1-249-429-11	CARBON	10K	5%	1/4W

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**PANEL**

**R**

**SUB TRANS**

**TRANS**

Ref. No.	Part No.	Description	Remark
R654	1-249-429-11	CARBON 10K 5%	1/4W
R655	1-249-429-11	CARBON 10K 5%	1/4W
R656	1-249-417-11	CARBON 1K 5%	1/4W F
R657	1-249-417-11	CARBON 1K 5%	1/4W F
R661	1-247-807-31	CARBON 100 5%	1/4W
R666	1-247-807-31	CARBON 100 5%	1/4W
R667	1-247-807-31	CARBON 100 5%	1/4W (AEP,UK,G,AED,CIS)
R668	1-247-807-31	CARBON 100 5%	1/4W
R669	1-247-807-31	CARBON 100 5%	1/4W
< SWITCH >			
S601	1-762-875-21	SWITCH, KEYBOARD (I/⏻)	
S602	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)	
S603	1-762-875-21	SWITCH, KEYBOARD (POWER SAVE/DEMO (STANDBY))	
S604	1-762-875-21	SWITCH, KEYBOARD (VIDEO)	
S605	1-762-875-21	SWITCH, KEYBOARD (MD)	
S606	1-762-875-21	SWITCH, KEYBOARD (TAPE)	
S607	1-762-875-21	SWITCH, KEYBOARD (CD)	
S608	1-762-875-21	SWITCH, KEYBOARD (TUNER)	
S609	1-762-875-21	SWITCH, KEYBOARD (SURROUND)	
S610	1-762-875-21	SWITCH, KEYBOARD (DBFB)	
S611	1-762-875-21	SWITCH, KEYBOARD (PLAY MODE)	
S612	1-762-875-21	SWITCH, KEYBOARD (REPEAT/PTY)	
S613	1-762-875-21	SWITCH, KEYBOARD (CD/TUNER NAME)	
S614	1-762-875-21	SWITCH, KEYBOARD (FILE SELECT)	
S615	1-762-875-21	SWITCH, KEYBOARD (TUNER BAND)	
S616	1-762-875-21	SWITCH, KEYBOARD (STEREO/MONO)	
S617	1-762-875-21	SWITCH, KEYBOARD (TUNER MEMORY)	
S619	1-762-875-21	SWITCH, KEYBOARD (GROOVE)	
S620	1-762-875-21	SWITCH, KEYBOARD (+ ▶▶)	
S621	1-762-875-21	SWITCH, KEYBOARD (- ◀◀)	
S622	1-762-875-21	SWITCH, KEYBOARD (ENTER)	
S651	1-473-392-11	ENCODER, ROTARY (VOLUME)	
S652	1-473-534-11	ENCODER, ROTARY (JOG DIAL)	
*****			
	1-675-197-11	R BOARD	*****
< CONNECTOR >			
* CN607	1-565-835-11	SOCKET, CONNECTOR 3P	
< IC >			
IC601	8-749-011-05	IC GP1U28X (REMOTE CONTROL RECIEVER)	
*****			
	1-674-801-11	SUB TRANS BOARD (AEP,UK,G,AED,CIS)	*****
< CAPACITOR >			
C932	1-126-768-11	ELECT 2200uF 20.00% 16V (AEP,UK,G,AED,CIS)	
C933	1-164-159-11	CERAMIC 0.1uF 50V (AEP,UK,G,AED,CIS)	
C934	1-126-933-11	ELECT 100uF 20.00% 16V (AEP,UK,G,AED,CIS)	
C935	1-126-964-11	ELECT 10uF 20.00% 50V (AEP,UK,G,AED,CIS)	

Ref. No.	Part No.	Description	Remark
△ C991	1-113-925-11	CERAMIC 0.01uF 20.00% 250V (AEP,UK,G,AED,CIS)	
< CONNECTOR >			
* CN901	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P (AEP,UK,G,AED,CIS)	
CN902	1-564-321-00	PIN, CONNECTOR 2P (AEP,UK,G,AED,CIS)	
< DIODE >			
D952	8-719-024-99	DIODE 11ES2-NTA2B (AEP,UK,G,AED,CIS)	
D953	8-719-024-99	DIODE 11ES2-NTA2B (AEP,UK,G,AED,CIS)	
D954	8-719-024-99	DIODE 11ES2-NTA2B (AEP,UK,G,AED,CIS)	
D955	8-719-024-99	DIODE 11ES2-NTA2B (AEP,UK,G,AED,CIS)	
D956	8-719-911-19	DIODE 1SS133T-72 (AEP,UK,G,AED,CIS)	
D957	8-719-911-19	DIODE 1SS133T-72 (AEP,UK,G,AED,CIS)	
< IC >			
IC991	8-759-450-47	IC BA05T (AEP,UK,G,AED,CIS)	
< TRANSISTOR >			
Q991	8-729-119-78	TRANSISTOR 2SC2785TP-HFE (AEP,UK,G,AED,CIS)	
< RESISTOR >			
R991	1-249-441-11	CARBON 100K 5% 1/4W (AEP,UK,G,AED,CIS)	
R992	1-249-429-11	CARBON 10K 5% 1/4W (AEP,UK,G,AED,CIS)	
< RELAY >			
△ RY901	1-755-276-11	RELAY, POWER (AEP,UK,G,AED,CIS)	
< TRANSFORMER >			
△ T901	1-433-999-11	TRANSFORMER, POWER (AEP,UK,G,AED,CIS)	
*****			
	1-674-803-11	TRANS BOARD	*****
	1-533-293-11	FUSE HOLDER	
< CAPACITOR >			
C951	1-162-306-11	CERAMIC 0.01uF 30.00% 16V	
C952	1-162-306-11	CERAMIC 0.01uF 30.00% 16V	
C953	1-162-306-11	CERAMIC 0.01uF 30.00% 16V	
< CONNECTOR >			
CN951	1-564-321-00	PIN, CONNECTOR 2P (MY,SP)	
< FUSE >			
△ F951	1-532-505-31	FUSE (TIME LUG) T5AL/250 V(MY,SP)	
△ F961	1-533-949-31	FUSE, CYLINDRICAL (TIME LUG) T8AL/250V	
△ F962	1-533-949-31	FUSE, CYLINDRICAL (TIME LUG) T8AL/250V	
△ F965	1-532-504-31	FUSE (TIME LUG) T4AL/250V	
△ F966	1-532-504-31	FUSE (TIME LUG) T4AL/250V	

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**TRANS**

Ref. No.	Part No.	Description	Remark
< RESISTOR >			
△ R951	1-219-120-11	FUSIBLE 0.15 5% 1/4W	
△ R952	1-219-120-11	FUSIBLE 0.15 5% 1/4W	
< SWITCH >			
△ S951	1-771-291-11	SWITCH, POWER (VOLTAGE SELECTOR) (MY,SP)	
< TRANSFORMER >			
△ T951	1-435-566-11	TRANSFORMER, POWER (AEP,UK,G,AED,CIS)	
△ T951	1-435-567-11	TRANSFORMER, POWER (MY,SP)	
*****			
MISCELLANEOUS *****			
4	1-751-688-11	WIRE (FLAT TYPE) (13 CORE) (MY,SP)	
4	1-773-011-11	WIRE (FLAT TYPE) (15 CORE) (AEP,UK,G,AED,CIS)	
6	1-693-482-11	TUNER (FM/AM) (MY,SP)	
6	1-693-490-11	TUNER (FM/AM) (AEP,UK,G,AED,CIS)	
62	1-769-908-11	WIRE (FLAT TYPE) (9 CORE)	
64	1-773-213-11	WIRE (FLAT TYPE) (25 CORE)	
66	1-568-441-11	SOCKET, CONNECTOR 9P	
67	1-769-885-11	WIRE (FLAT TYPE) (7 CORE)	
△ 104	1-777-071-51	CORD, POWER (MY,SP)	
△ 104	1-777-071-61	CORD, POWER (AEP,UK,G,AED,CIS)	
△ 107	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK)	
△ 107	1-569-008-21	ADAPTOR, CONVERSION (MY,SP)	
LCD601	1-803-738-11	DISPLAY PANEL, LIQUID CRYSTAL	
M401	1-763-478-11	FAN, DC	
△ T951	1-435-566-11	TRANSFORMER, POWER (AEP,UK,G,AED,CIS)	
△ T951	1-435-567-11	TRANSFORMER, POWER (MY,SP)	
*****			
***** HARDWARE LIST *****			
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#2	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
#3	7-685-872-09	SCREW +BVTT 3X8 (S)	
#4	7-685-871-01	SCREW +BVTT 3X6 (S)	
#5	7-685-646-79	SCREW +BVTT 3X8 TYPE2 N-S	

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