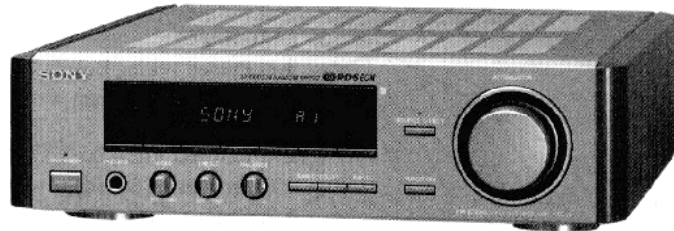


STR-S1

SERVICE MANUAL

*AEP Model
UK Model*



This set is the receiver section in SHC-S3.

SPECIFICATIONS

Amplifier section

Continuous RMS power output

40 + 40 watts (4 ohms at 1 kHz,
DIN)

50 + 50 watts (4 ohms at 1 kHz,
10 % THD)

30 + 30 watts (8 ohms at 1 kHz,
DIN)

37 + 37 watts (8 ohms at 1 kHz,
10 % THD)

Music power output

100 + 100 watts (4 ohms at 1
kHz, 10 % THD)

60 + 60 watts (8 ohms at 1 kHz,
10 % THD)

Total harmonic distortion

0.025% at rated 15 W 1 kHz
output (SOURCE DIRECT ON)

Residual noise

Less than 150 μ V, 6 ohms,
Network A

Frequency response

PHONO MM (20 Hz - 20 kHz):
RIAA equalization curve ± 0.5
dB

TUNER, CD, TAPE, MD: 10 Hz
- 50 kHz ± 3 dB

Input sensitivity

PHONO: MM, 2.5 mV, 50
kilohms

TUNER, CD, TAPE, MD: 150
mV, 50 kilohms

Maximum input capability (1 kHz)

PHONO: MM, 150 mV at 1 kHz
(SOURCE DIRECT ON)

S/N (network)

PHONO: 85 dB(A) (SOURCE

DIRECT ON, 10 mV)

CD: 100 dB(A) (SOURCE

DIRECT ON, 150 mV)

Output voltage impedance

TAPE, MD: 150 mV, 2 kilohms

PHONES: 25 milliwatts at 8
ohms, Accepts low and high
impedance headphones.

Tone controls

BASS: ± 7 dB at 100 Hz

TREBLE: ± 6 dB at 10 kHz

FM tuner section

Frequency range

87.5 - 108 MHz

Aerial terminals

75 Ω unbalanced

Intermediate frequency

10.7 MHz

Sensitivity

(mono 26 dB quieting)

12.1 dBf, 1.1 μ V

(stereo 46 dB quieting)

40.0 dBf, 27 μ V

Usable sensitivity (IHF)

19.5 dBf, 2.6 μ V

Signal-to-noise ratio (at 40 kHz deviation)

74 dB (mono)

69 dB (stereo)

— Continued on page 2 —



FM STEREO/FM-AM RECEIVER
SONY[®]

Harmonic distortion	0.3% (mono); 0.5% (stereo) (at 1 kHz)
Frequency response	30 Hz - 15 kHz (+0.5 dB, -1.0 dB)
Separation	40 dB (at 1 kHz)
Selectivity	80 dB (at 400 kHz) 60 dB (at 300 kHz)

AM tuner section

Frequency range	MW: 531 to 1,602 kHz LW: 153 to 279 kHz
Intermediate frequency	450 kHz
Usable sensitivity (with AM loop aerial)	MW: 300 μ V/m (999 kHz) LW: 1 mV/m (216 kHz)
Signal-to-noise ratio	52 dB (50 mV/m, 999 kHz) 50 dB (50 mV/m, 216 kHz)
Harmonic distortion	0.5% (50 mV/m, 400 Hz)
Selectivity	32 dB

General



Power requirements	220 - 230 V AC, 50/60 Hz
Power consumption	95 W
Mains	1 switched, 175 W max.
Dimensions	Approx. 310 × 90 × 360 mm (12 1/4 × 3 5/8 × 14 1/4 inches) (w/h/d)
Mass	Approx. 5 kg (11 lb)
Supplied accessories	Remote commander RM-S1 (1) Sony SUM-3 (NS) (2) Audio bus cable (1) FM wire aerial (1) AM loop aerial (1) Screws M3×6 (4)

Design and specifications are subject to change without notice.

TABLE OF CONTENTS

Section	Title	Page
	specifications	1
1. GENERAL	3
2. EXPLANATION OF IC TERMINALS	4
3. DIAGRAMS		
	3-1. Printed Wiring Boards	8
	3-2. Schematic Diagram	11
4. EXPLODED VIEWS		
	4-1. Front panel Section	18
	4-2. Chassis Section	19
5. ELECTRICAL PARTS LIST	20

SAFETY-RELATED COMPONENT WARNING!!

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

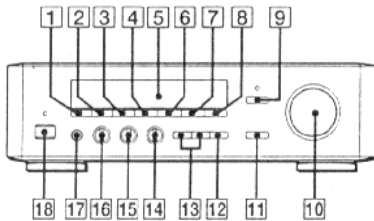
SECTION 1 GENERAL

This section is extracted from instruction manual.

Index to Parts and Controls

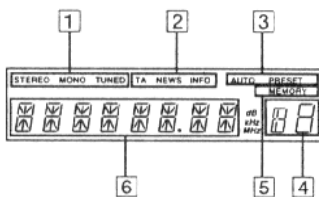
Front Panel

Refer to the pages indicated in parenthesis for details.



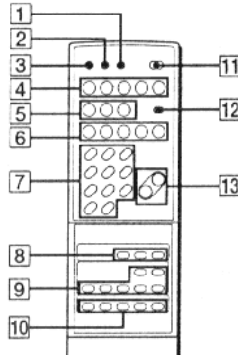
- 1 EON button (11)(12)
- 2 PTY button (12)
- 3 DISPLAY button (9)(11)
- 4 CHARACTER button (9)
- 5 Display window
- 6 STEREO/MONO button (8)(9)
- 7 TUNING MODE button (8)(9)(10)
- 8 MEMORY/ENTER button (9)(12)
- 9 SOURCE DIRECT control (7)
- 10 ATTENUATOR control (7)
- 11 FUNCTION button (7)
- 12 BAND button (8)
- 13 TUNING/SELECT +/- buttons (8)(9)(10)(12)
- 14 BALANCE control (7)
- 15 TREBLE control (7)
- 16 BASS control (7)
- 17 PHONES jack (7)
- 18 POWER switch (7, 8)

Display window



- 1 Receiving status indicator
- 2 RDS receiving indicator
- 3 Tuning mode indication
- 4 Multi-display
- 5 MEMORY indicator
- 6 Preset number indication

Remote Commander



- 1 MUTING button (7)
- 2 SOURCE DIRECT button
- 3 FUNCTION button
Each time you press FUNCTION, the function changes as follows:
MD → TAPE → CD → TUNER → PHONO →...
- 4 Cassette deck operating buttons
◀ (reverse side play)
▷ (upper side play)
■ (stop)
◀◀/▶▶ fast leftward / rightward (AMS*)
- 5 Tuner operating buttons
SHIFT: Each time you press SHIFT, the letter (A - C) changes as follows:
A → B → C →...
PRESET +/-: Press - or + to select the number (0 - 9).
- 6 CD operating buttons
▷ (play)
|| (pause)
■ (stop)
◀◀/▶▶ (AMS*)
- 7 Tuner/CD numeric buttons
- 8 Tape control buttons
● REC (recording)
○ REC MUTE (recording mute)
|| (pause)
- 9 CD control buttons
CHECK: Press the button to check the programme.
CLEAR: Press the button to erase a specific track.
CONTINUE: Press the button to play tracks continuously.
SHUFFLE: Press the button to play tracks in random order.
PROGRAM: Press the button to play tracks in the desired order.
REPEAT: Press the button to play tracks repeatedly.
TIME: Press the button to change the time to be displayed.
- 10 MD control buttons
▷ (play)
|| (pause)
■ (stop)
◀◀/▶▶ (AMS*)
- 11 SYSTEM POWER switch (8)
- 12 TUNER/CD switch
- 13 ATTENUATOR +/- buttons

*AMS: Automatic Music Sensor

SECTION 2 EXPLANATION OF IC TERMINALS

IC701 (μ PD78044AGF-109-3B9) SYSTEM CONTROL, FL DRIVE

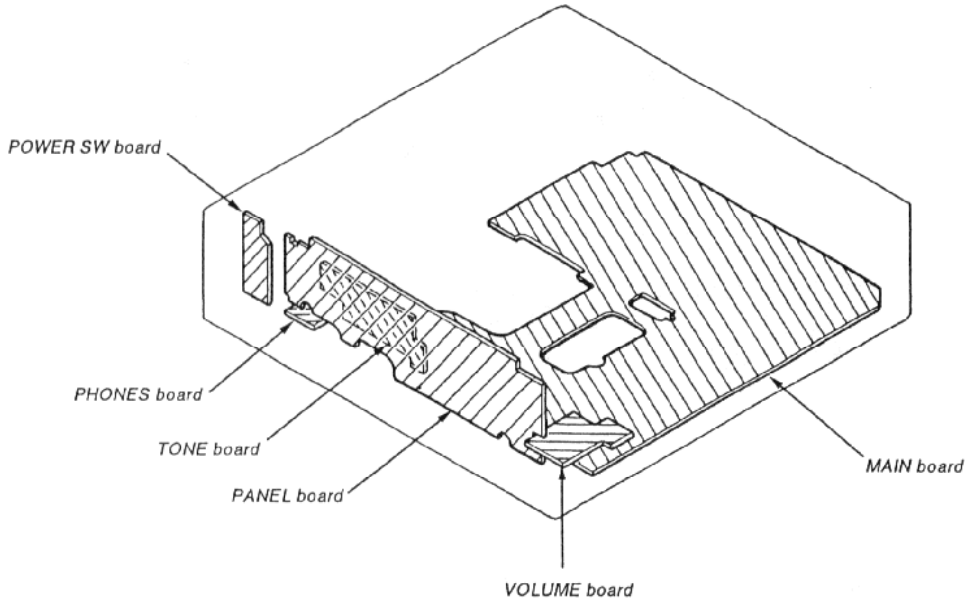
Pin No	Pin Name	I/O	Description
1	FIP6	O	FL grid output.
2	FIP5	O	FL grid output.
3	FIP4	O	FL grid output.
4	FIP3	O	FL grid output.
5	FIP2	O	FL grid output.
6	FIP1	O	FL grid output.
7	FIP0	O	FL grid output.
8	VDD	-	Power supply +5V
9	—	-	Not used.(Open)
10	PLL CE OUT	O	Chip enable output to TB301.
11	PLL SO OUT	O	Serial data output to TB301.
12	PLL CLOCK OUT	O	Serial clock output to TB301.
13	PLL SI IN	I	Serial data input from TB301.
14	TUNED IN	I	Tuned signal input.
15	STEREO IN	I	Stereo signal input.
16	MUTING OUT(ST)	O	Tuner mute output. "L":Mute
17	RESET	I	Reset signal input.
18	—	-	Not used.(Open)
19	—	-	Not used.(Open)
20	A/D GND	-	GND
21	MUTING OUT(TA)	O	Amp mute output. "L":Mute
22	FUNC A OUT	O	Function switch output.
23	FUNC B OUT	O	Function switch output.
24	FUNC C OUT	O	Function switch output.
25	FUNC D OUT	O	Function switch output.
26	VOL UP	O	Volume motor control output.(UP)
27	VOL DOWN	O	Volume motor control output.(DOWN)
28	KEY IN	I	Key input.(Analog)
29	A/D +5V	-	A/D power supply +5V
30	A/D REF +5V	-	A/D reference voltage. +5V
31	—	-	Not used.(GND)
32	—	-	Not used.(Open)
33	GND	-	GND
34	X1	-	System clock. 5MHz
35	X2	-	System clock. 5MHz
36	SOURCE DIRECT LED OUT	O	Source direct LED output.
37	—	-	Not used.(Open)
38	VOL LED OUT	O	Volume LED output.
39	STANDBY LED OUT	O	Standby LED output.
40	POWER LED OUT	O	Power LED output.
41	RELAY IN	I	SP relay ON/OFF signal input.
42	POWER OUT	O	Power relay control output.
43	AUB OUT	O	AU BUS output.
44	AC CUT IN	I	AC off detect input.
45	RDS CLOCK IN	I	RDS clock input.
46	RDS DATA IN	I	RDS data input.
47	SIRCS IN	I	SIRCS input.
48	(GND)	-	Not used.(GND)
49	AUB IN	I	AU BUS input.
50	—	-	Not used.(Open)

Pin No	Pin Name	I/O	Description
51	—	-	Not used.(Open)
52	VDD	-	Power supply +5V
53	—	-	Not used.(Open)
54	—	-	Not used.(Open)
55	—	-	Not used.(Open)
56	—	-	Not used.(Open)
57	—	-	Not used.(Open)
58	VERSION C	I	Destination identification input.
59	VERSION B	I	Destination identification input.
60	VERSION A	I	Destination identification input.
61	—	-	Not used.(Open)
62	FIP24	O	FL segment output.
63	FIP23	O	FL segment output.
64	FIP22	O	FL segment output.
65	FIP21	O	FL segment output.
66	FIP20	O	FL segment output.
67	FIP19	O	FL segment output.
68	FIP18	O	FL segment output.
69	FIP17	O	FL segment output.
70	FIP16	O	FL segment output.
71	-29V	-	-29V driving power for FL tube.
72	FIP15	O	FL segment output.
73	FIP14	O	FL segment output.
74	FIP13	O	FL segment output.
75	FIP12	O	FL segment output.
76	FIP11	O	FL segment output.
77	FIP10	O	FL segment output.
78	FIP9	O	FL grid output.
79	FIP8	O	FL grid output.
80	FIP7	O	FL grid output.

STR-S1

SECTION 3
DIAGRAMS

● CIRCUIT BOARDSLOCATION



● SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Loca
D101	G - 4	D707	D - 1
D102	F - 4	D708	I - 2
D103	F - 5		
D104	F - 5		
D105	G - 4	IC101	I - 4
		IC102	F - 4
D106	H - 4	IC103	F - 4
D201	G - 11	IC104	F - 4
D202	G - 11	IC105	G - 1
D203	H - 11		
D204	H - 10	IC203	D - 1
		IC301	J - 7
D205	G - 10	IC302	J - 8
D206	J - 10	IC401	I - 1
D207	I - 10	IC501	G - 1
D208	I - 10		
D209	I - 12	IC601	I - 5
		IC701	D - 1
D210	I - 12	IC702	D - 1
D211	I - 12	IC703	D - 1
D212	J - 12		
D213	D - 6	Q101	H - 1
D214	D - 6	Q151	H - 1
		Q201	D - 1
D215	C - 5	Q202	J - 1
D216	C - 5	Q203	H - 1
D217	H - 11		
D218	C - 5	Q204	I - 1
D219	D - 7	Q205	I - 1
		Q206	J - 1
D220	D - 7	Q301	J - 6
D221	D - 8	Q302	J - 6
D222	D - 8		
D401	I - 18	Q601	H - 1
D601	H - 7	Q651	H - 1
		Q701	D - 1
D602	H - 7	Q702	D - 1
D603	D - 13	Q703	D - 1
D651	H - 7		
D652	H - 7	Q704	E - 1
D701	C - 17	Q705	E - 1
D702	C - 16		
D703	D - 15		
D704	D - 16		
D705	E - 17		
D706	D - 20		

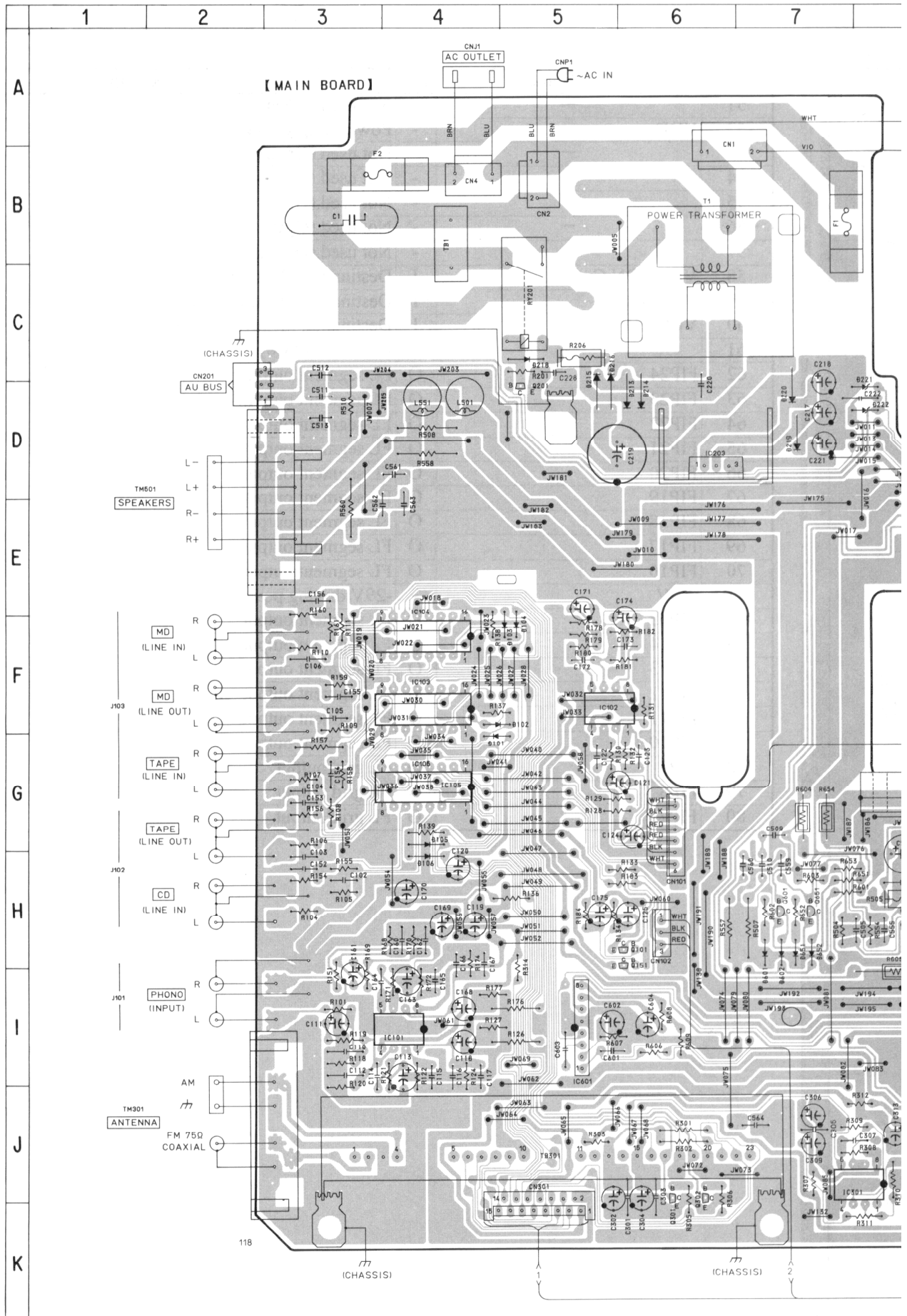
Note:

- ○ — : parts extracted from the compone
- □□□□ : Pattern on the side which is see
- Abbreviation
G : German

3-1. PRINTED WIRING BOARDS

CAUTION

Ref. No.	Location
707	D-20
708	I-20
7101	I-4
7102	F-5
7103	F-4
7104	F-4
7105	G-4
7203	D-6
7301	J-7
7302	J-8
7401	I-17
7501	G-9
7601	I-5
7701	D-19
7702	D-15
7703	D-22
101	H-6
151	H-6
201	D-5
202	J-10
203	H-11
204	I-10
205	I-10
206	J-11
301	J-6
302	J-6
601	H-7
651	H-7
701	D-16
702	D-17
703	D-17
704	E-18
705	E-16



from the component side.
side which is seen.

8

9

10

11

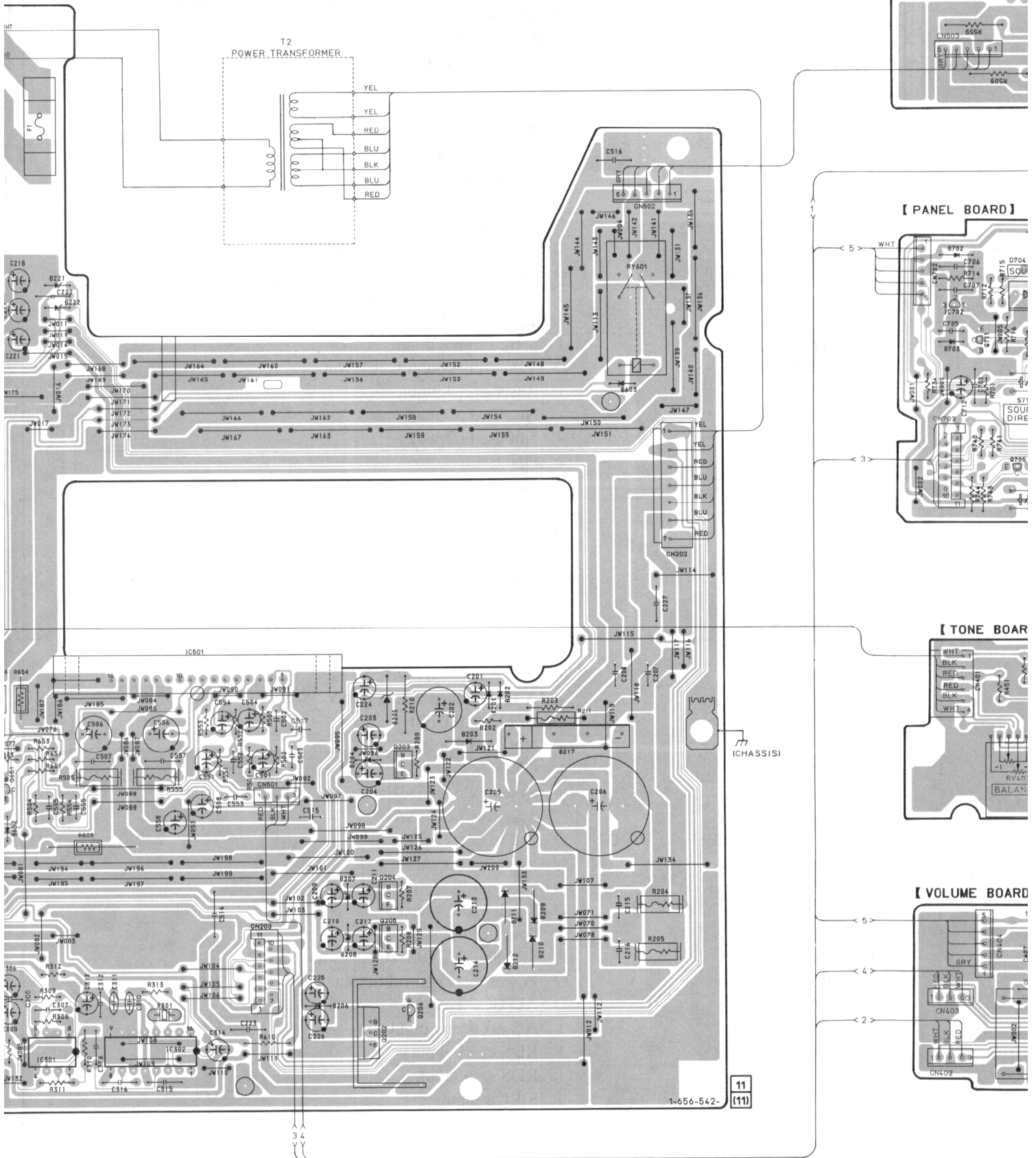
12

13

14

15

16



【 PHONES BOARD 】

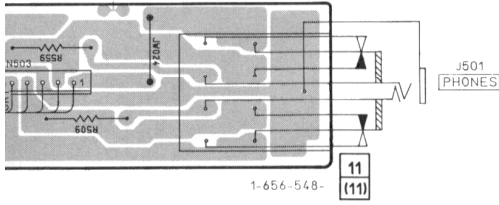
【 PANEL BOARD 】

【 TONE BOARD 】

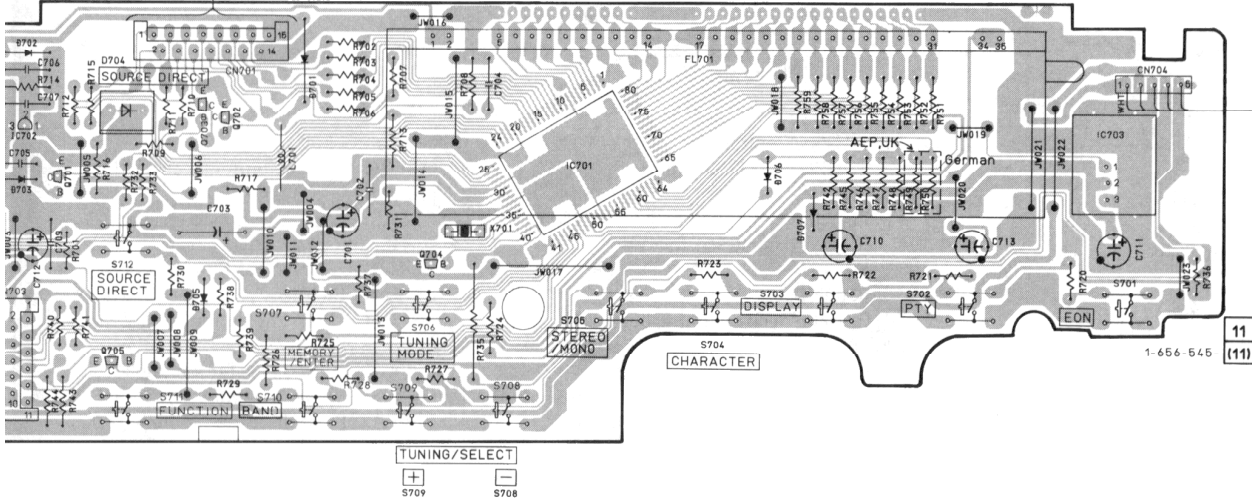
【 VOLUME BOARD 】

16	17	18	19	20	21	22	23
----	----	----	----	----	----	----	----

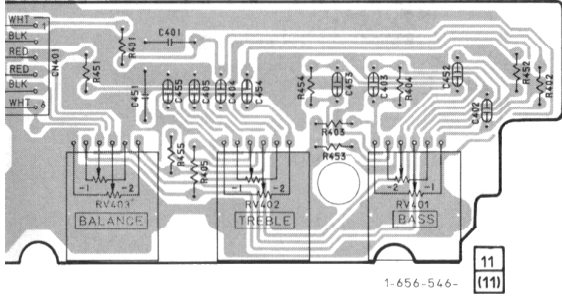
S BOARD]



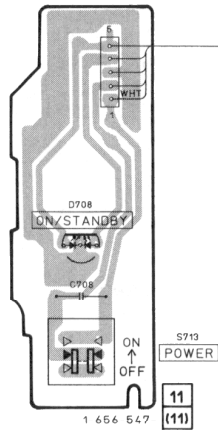
EL BOARD]



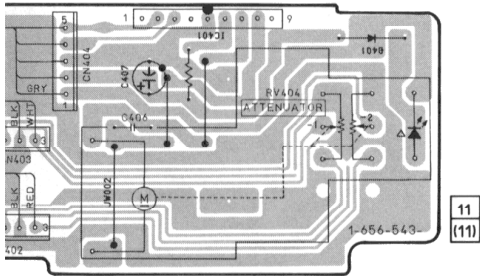
[TONE BOARD]



[POWER SW BOARD]

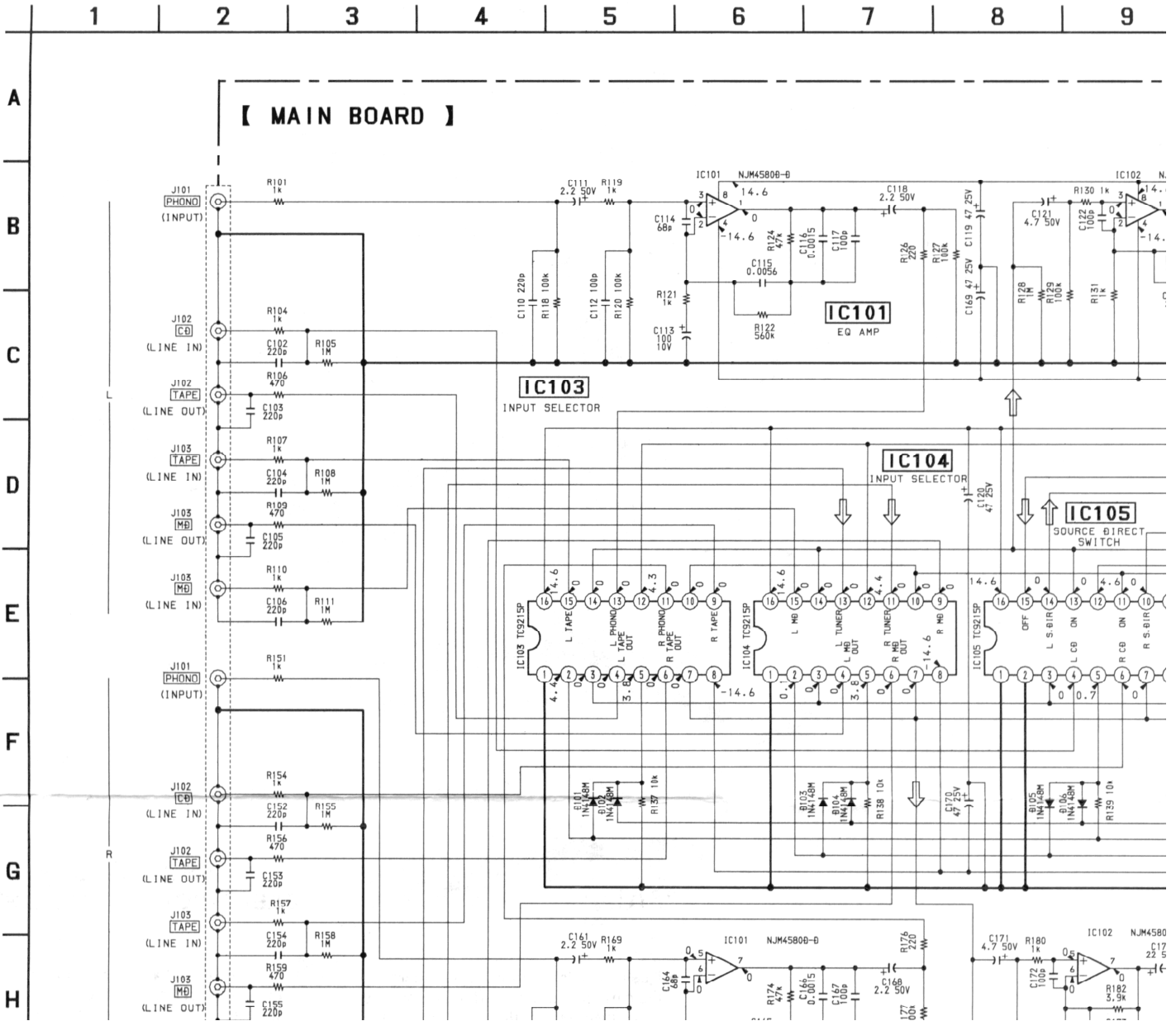


[VOLUME BOARD]

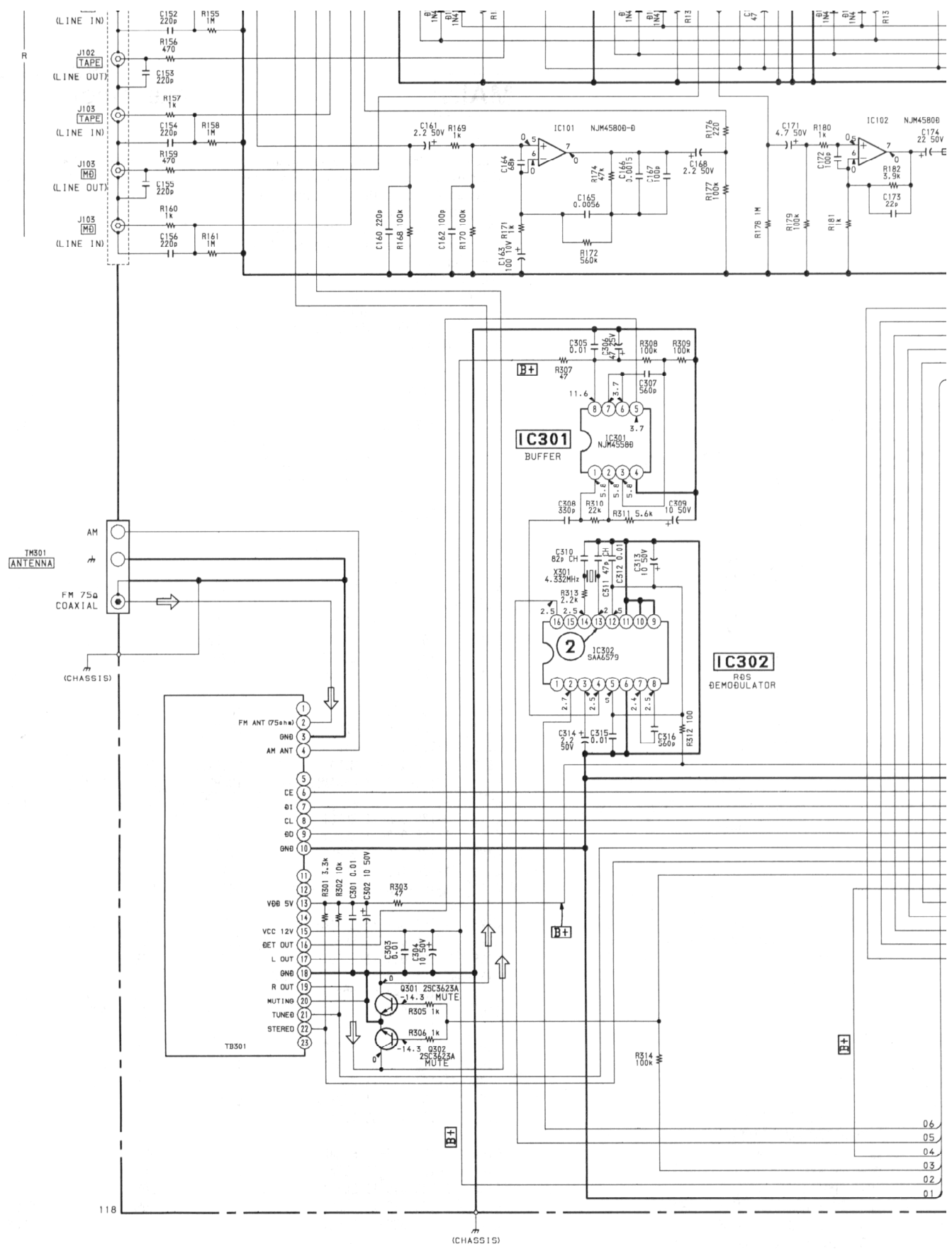


3-2. SCHEMATIC DIAGRAM

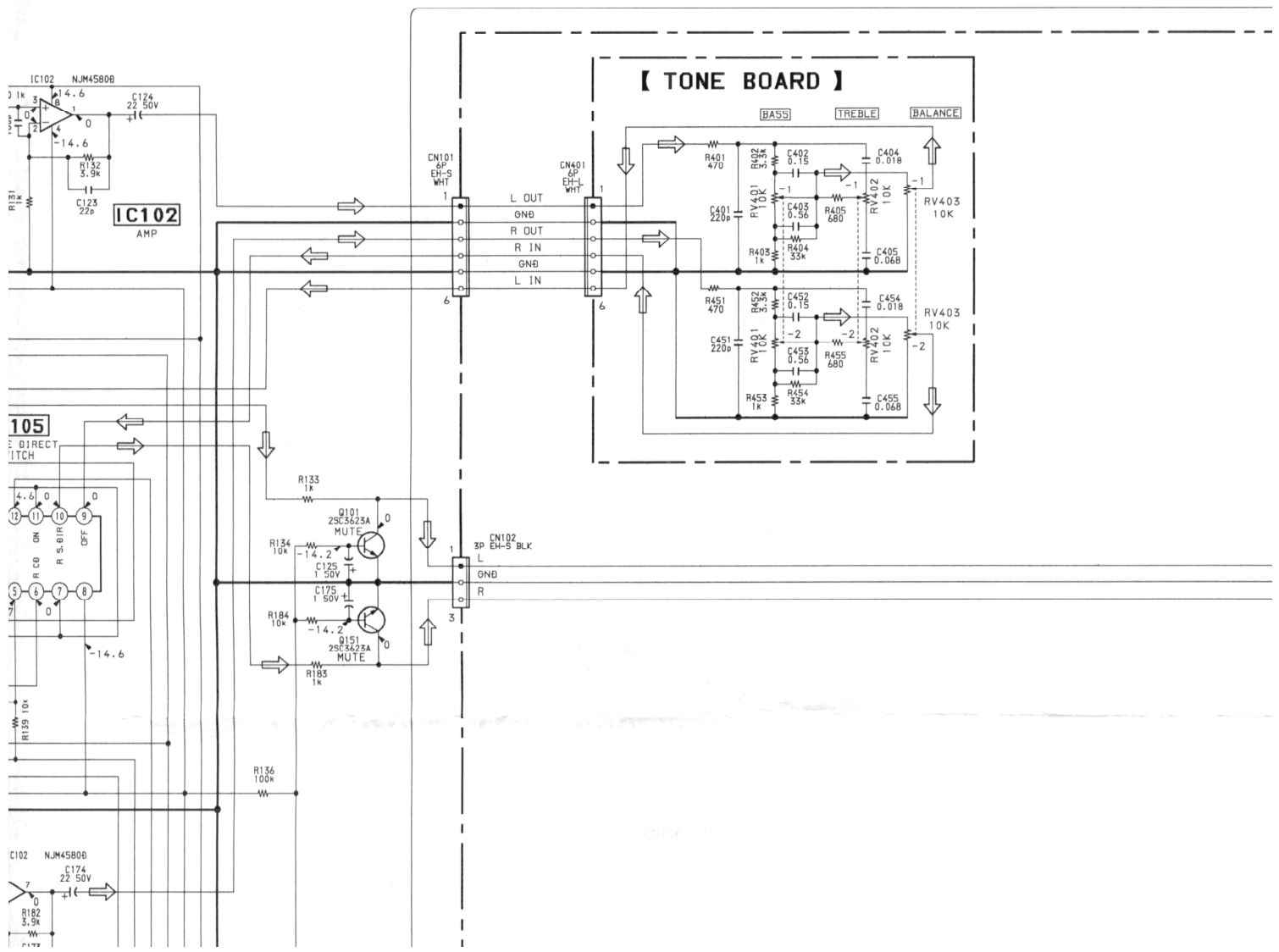
● Refer to page 16 for IC Block Diagrams.

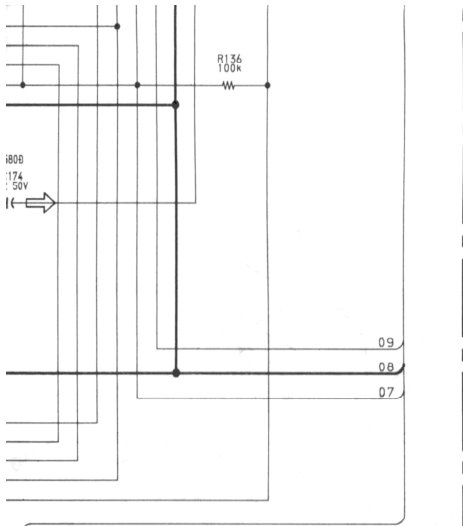


G
H
I
J
K
L
M
N
O
P
Q
R

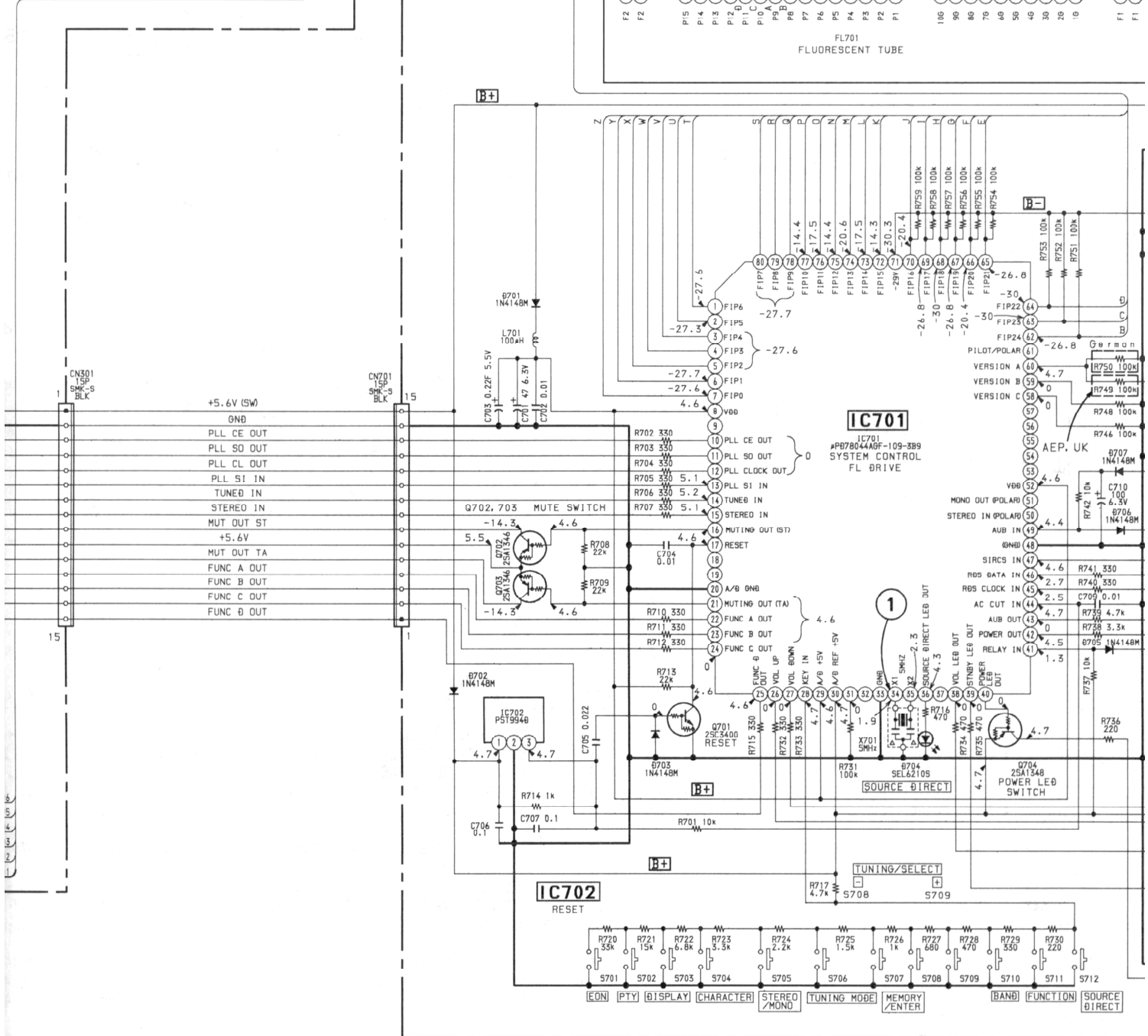


9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18





[PANEL BOARD]



19

20

21

22

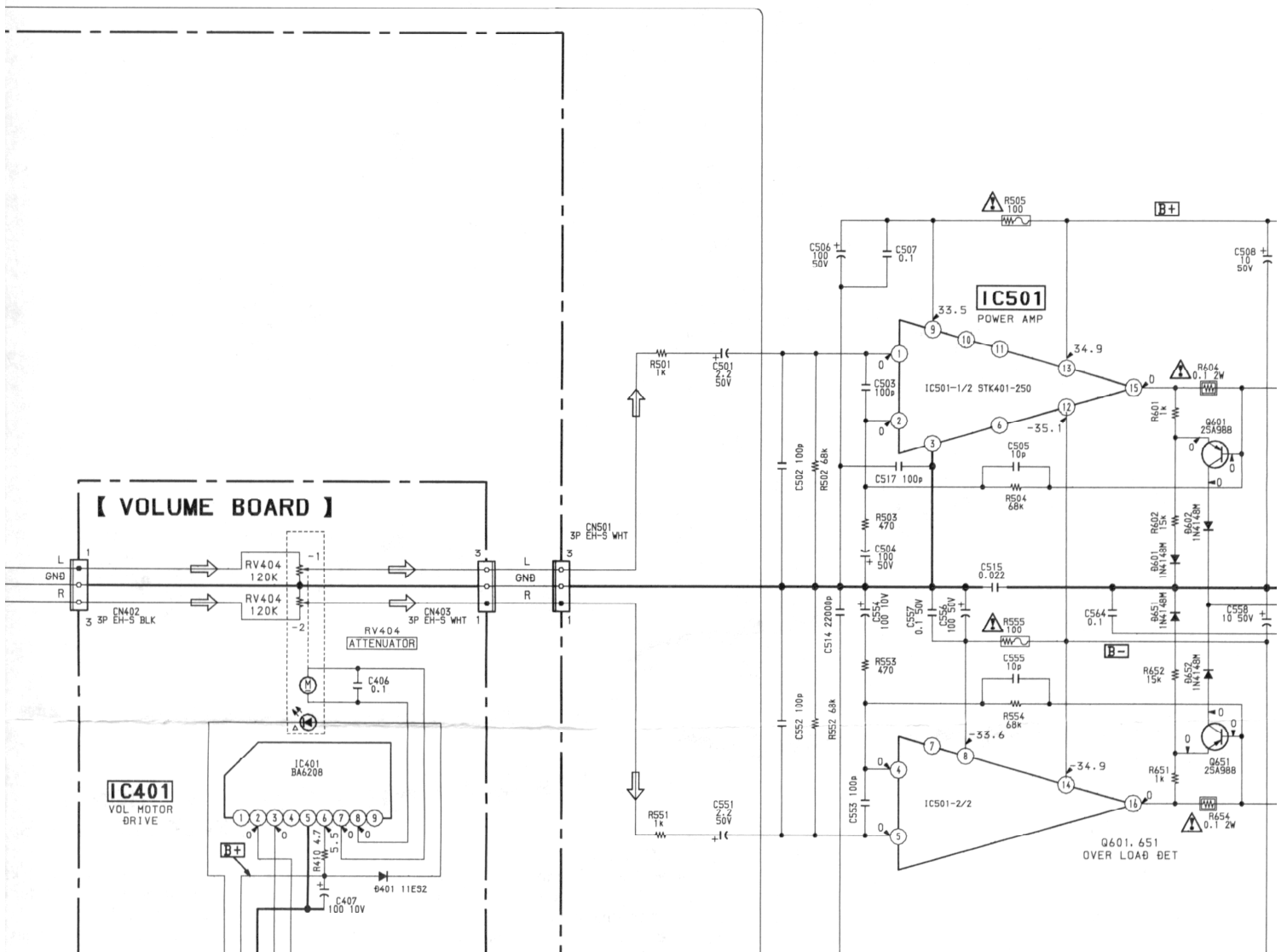
23

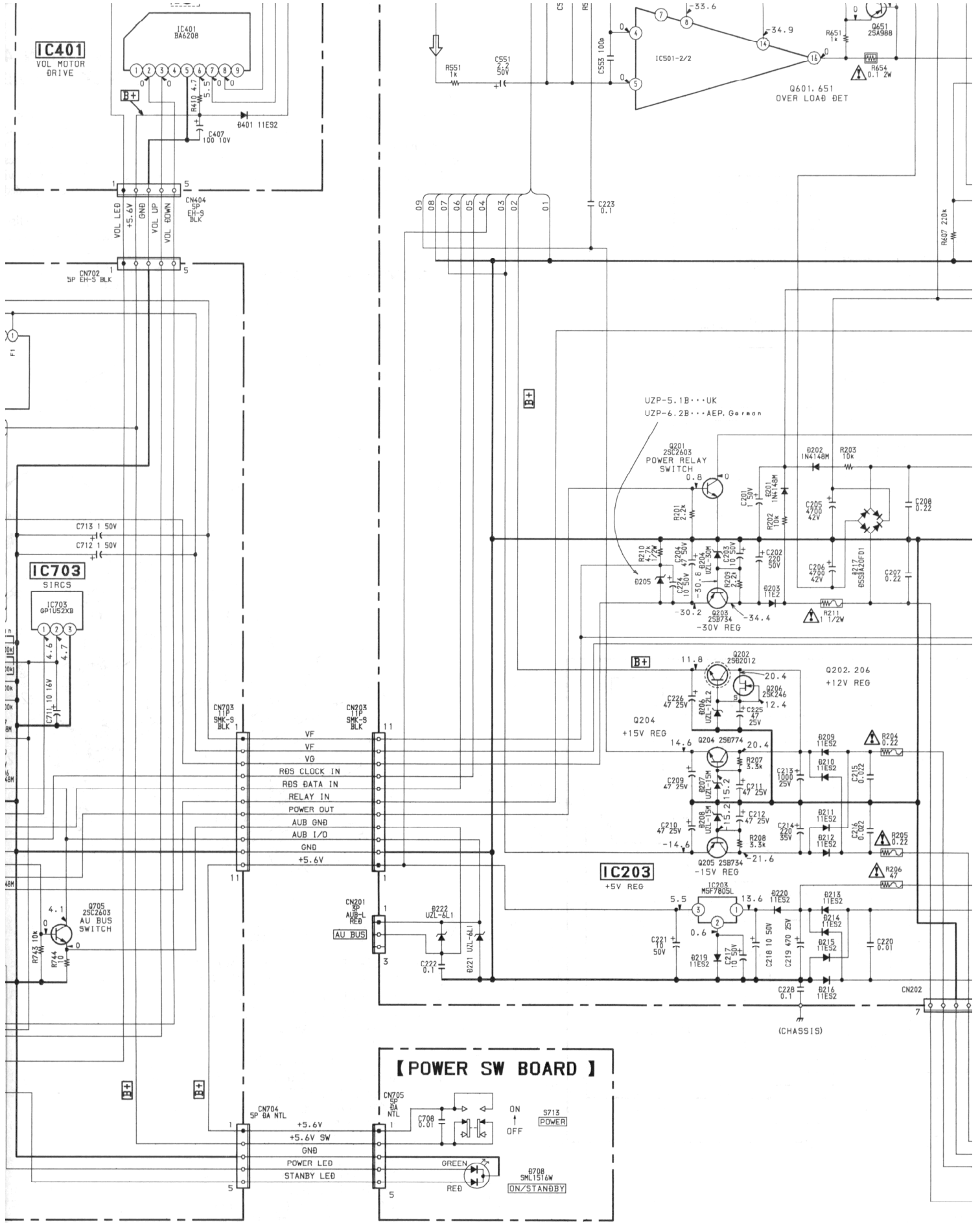
24

25

26

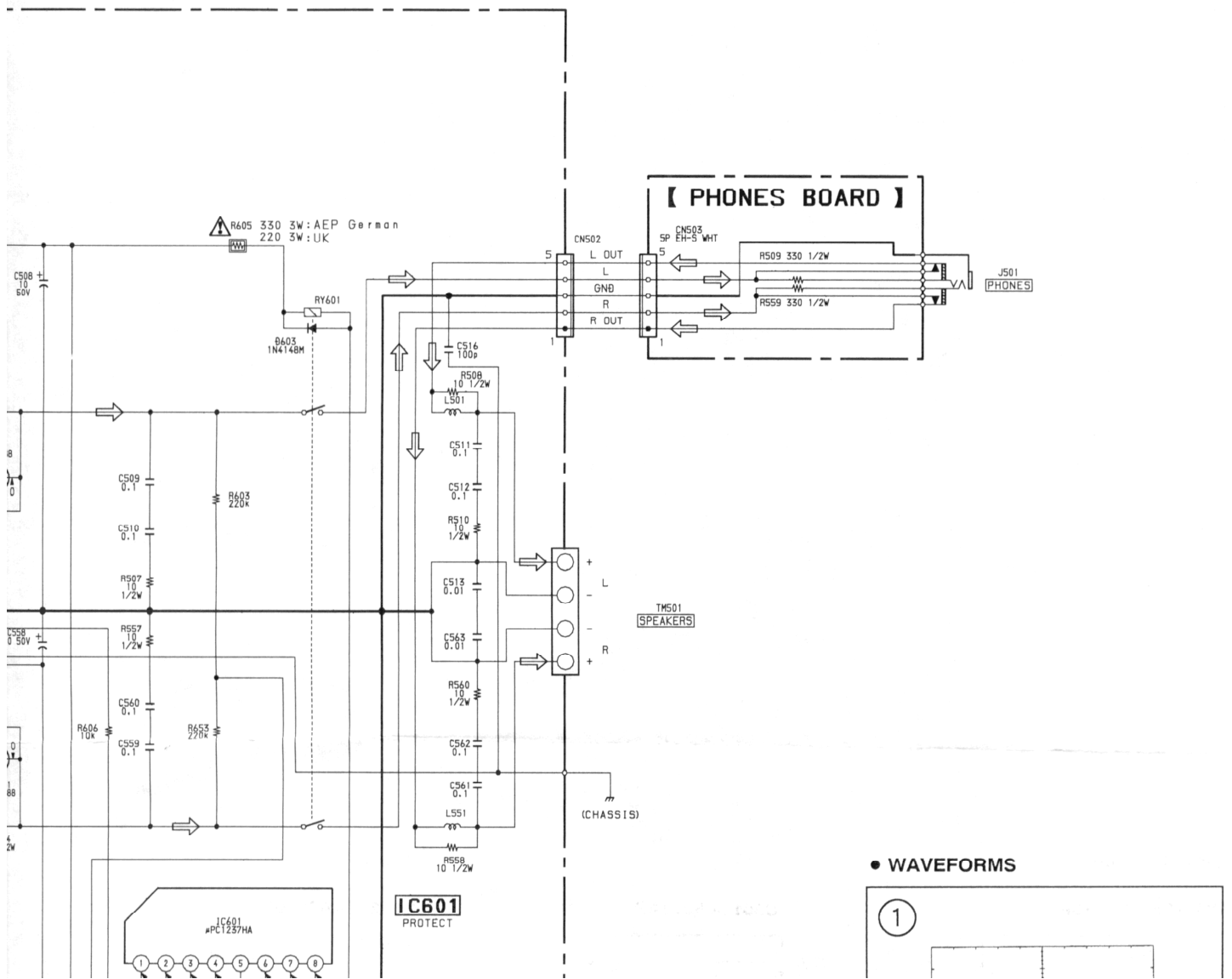
27

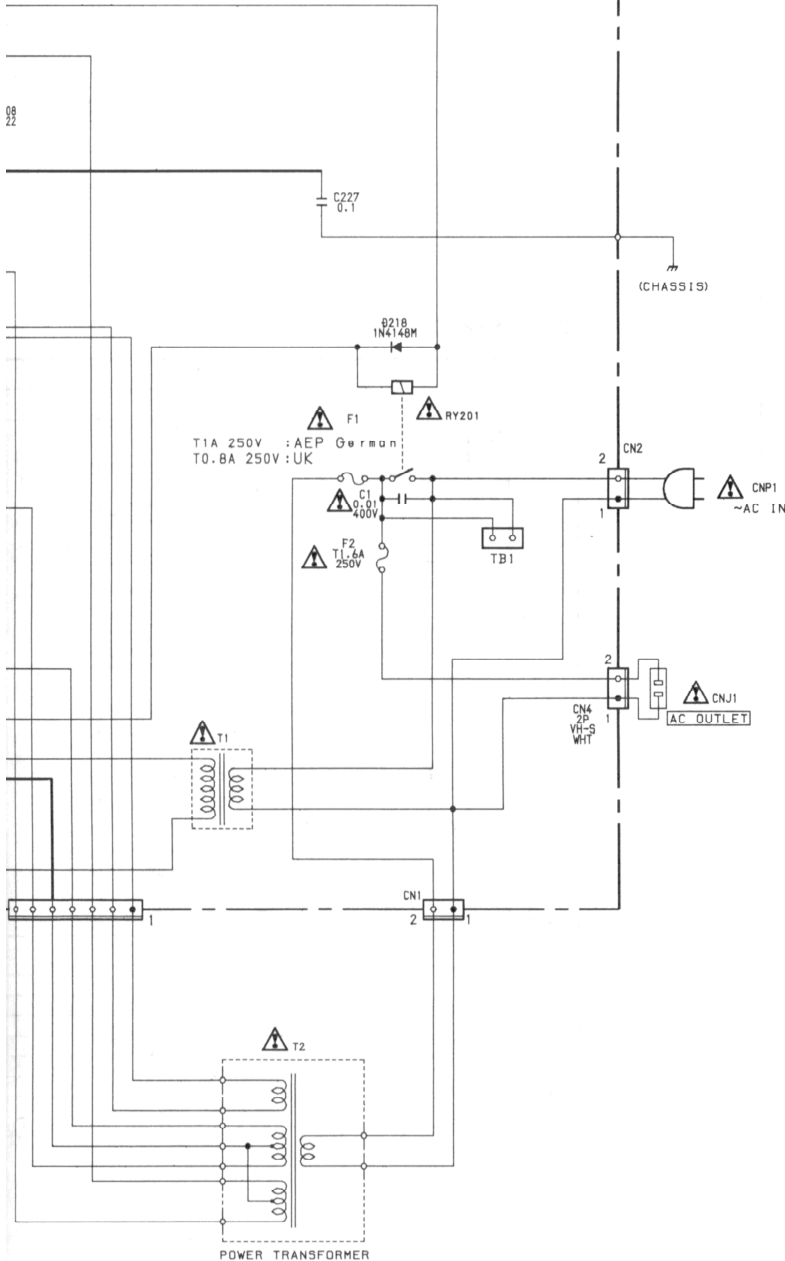
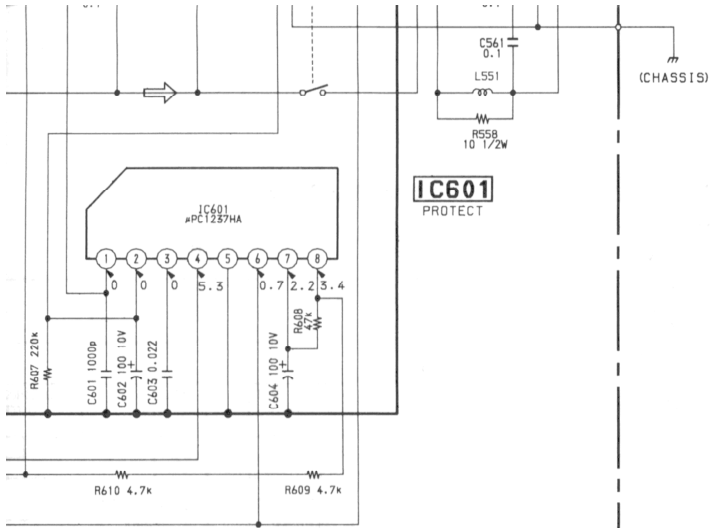




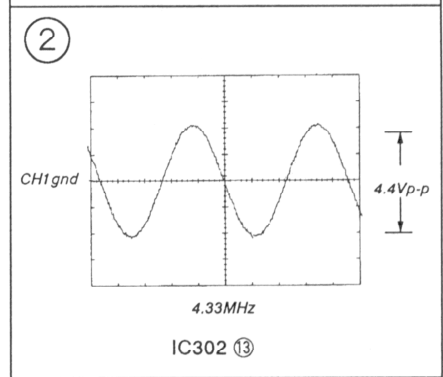
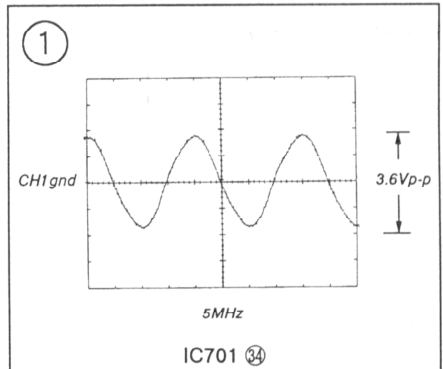
STF

28	29	30	31	32	33	34	35
----	----	----	----	----	----	----	----





• WAVEFORMS



Note :

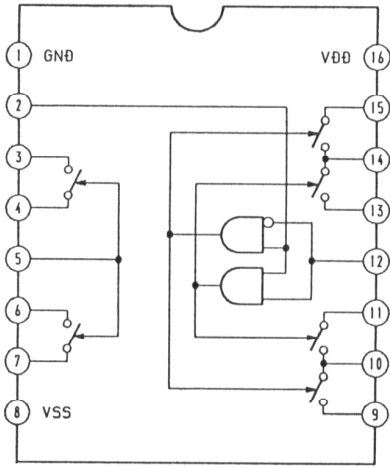
- All capacitors are in μ F unless otherwise noted. pF: μ pF
- All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.
- Δ : internal component.
- : nonflammable resistor.
- : fusible resistor.

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

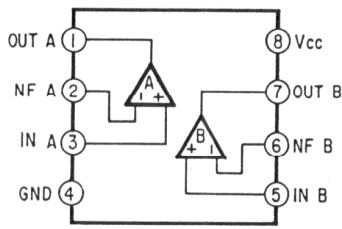
- **B+** : B+ Line
- **B-** : B- Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM
- Voltages are taken with a VOM (Input impedance $10M \Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 : FM
- Abbreviation
G : German

• IC BLOCK DIAGRAMS

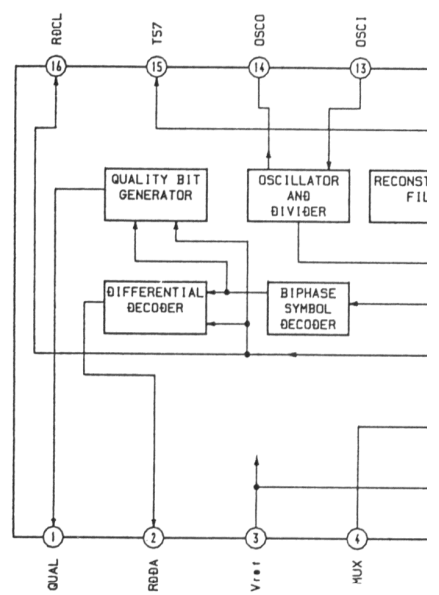
IC103, 104, 105 TC9215P



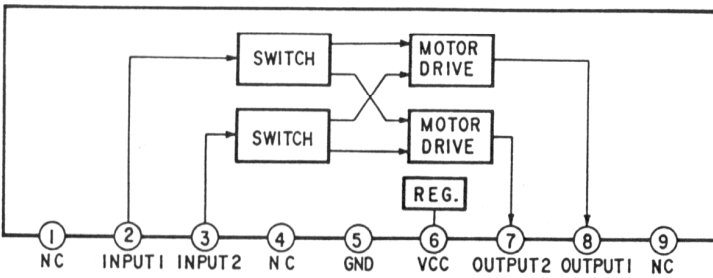
IC301 M5218AP



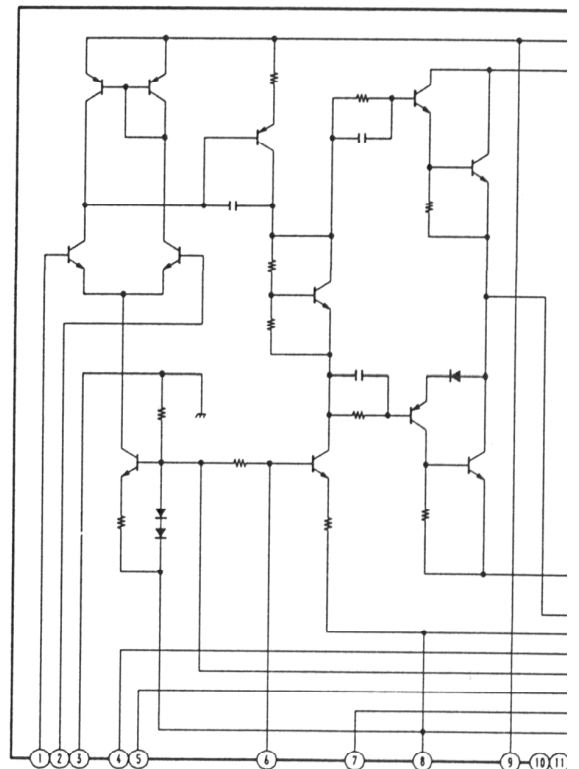
IC302 SAA6579



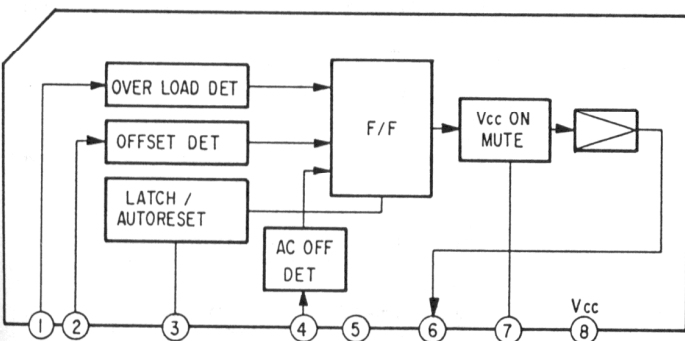
IC401 BA6208



IC501 STK401-250



IC601 μ PC1237HA

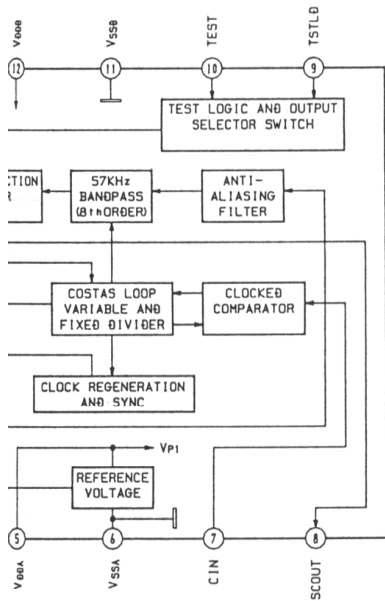


SECTION 4 EXPLODED VIEWS

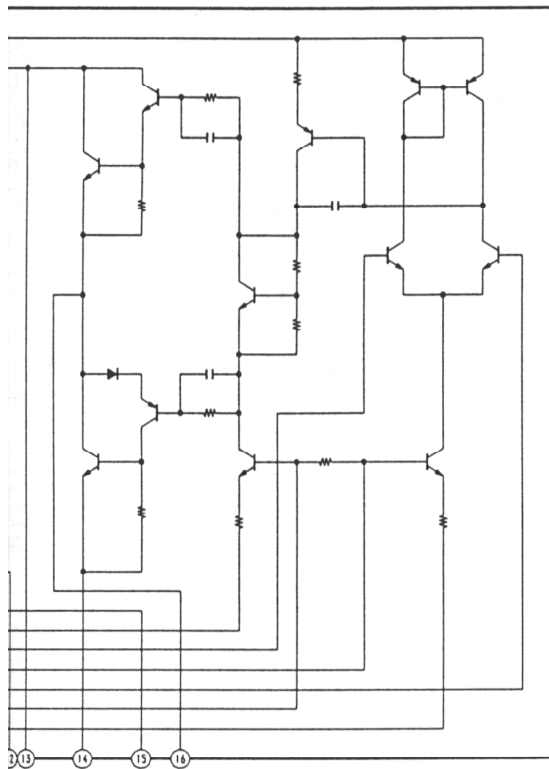
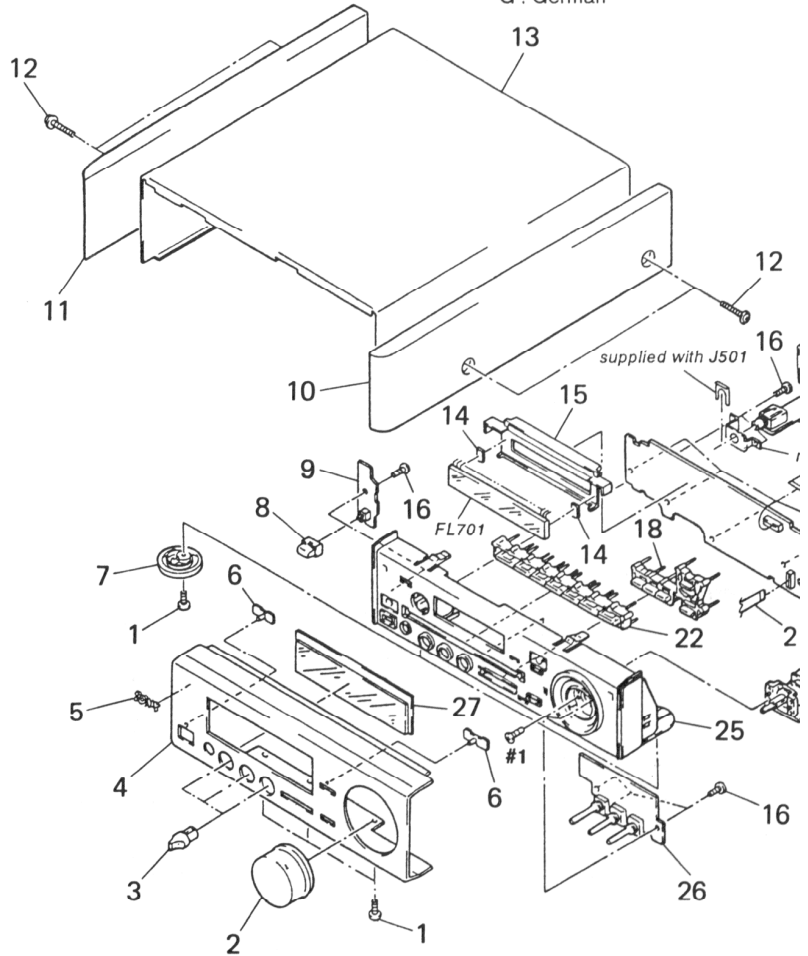
NOTE :

- -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 stock they are seldom required for service. Some delay should be expected when ordering these items
- The mechanical parts with no reference number in the exploded views supplied.
- Hardware (# mark) list and accessories and packing materials are given at the last of this parts list.
- Abbreviation
G : German



4-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.
1	3-704-515-21	SCREW (BV/RING)		16	4-9
2	X-4945-130-1	KNOB (DIA. 43) ASSY	*	17	1-6
3	4-975-516-01	KNOB (DIA 13) (B)		18	4-9
4	4-975-496-01	PANEL (STR), FRONT		19	1-7
5	4-969-961-11	EMBLEM (NO. 4), SONY	*	20	A-4
6	4-969-275-01	INDICATOR	*	20	A-4
7	X-4945-079-1	RING ASSY, FOOT		21	1-7
8	4-968-098-01	BUTTON (P)		22	4-9
* 9	1-656-547-11	POWER SW BOARD	*	23	1-6
10	X-4945-477-1	PANEL (R) ASSY, SIDE		24	3-9
11	X-4945-476-1	PANEL (L) ASSY, SIDE		25	X-4
12	4-969-954-01	SCREW (SIDE PANEL)	*	26	1-6
13	4-977-076-11	CASE		27	4-9
* 14	4-945-305-01	CUSHION (FL TUBE)		FL701	1-9
* 15	4-942-301-51	HOLDER, FL TUBE			

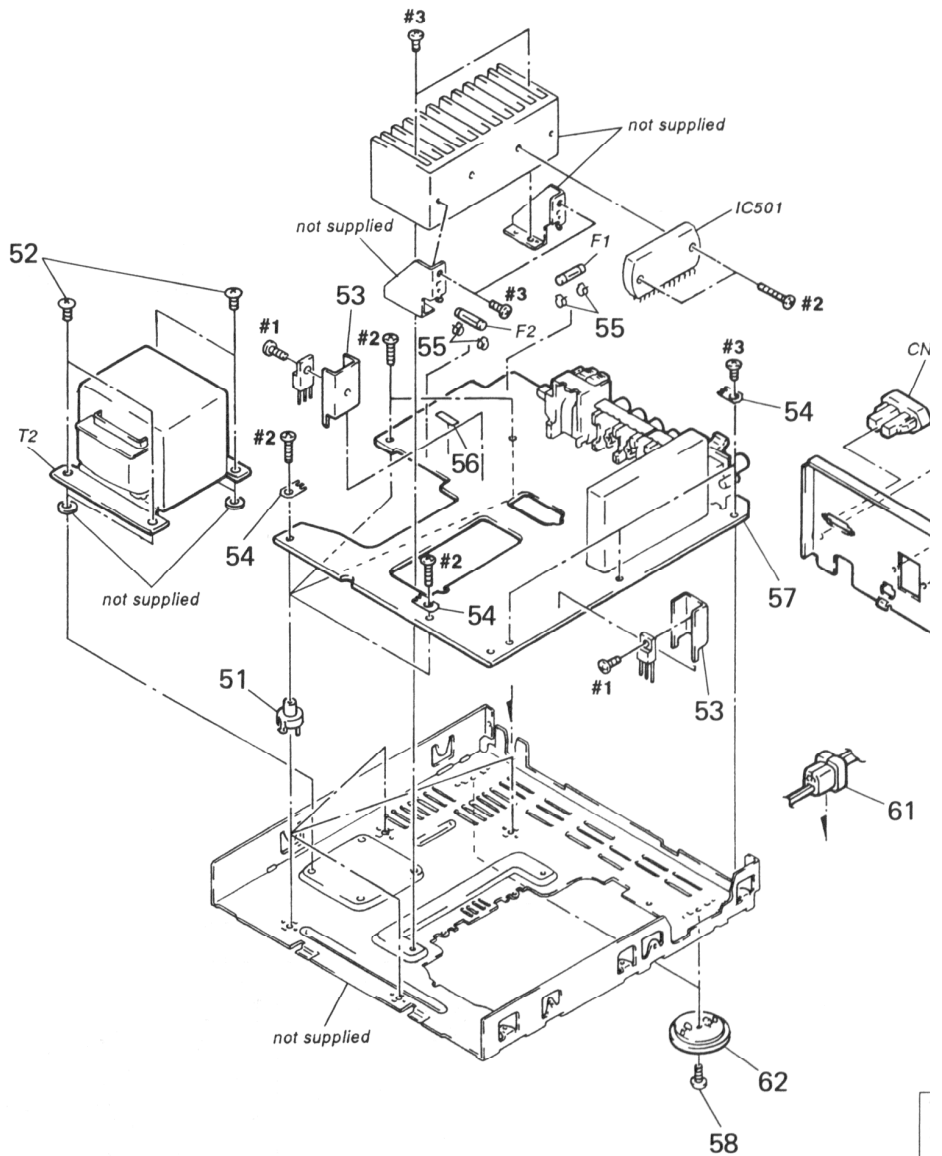
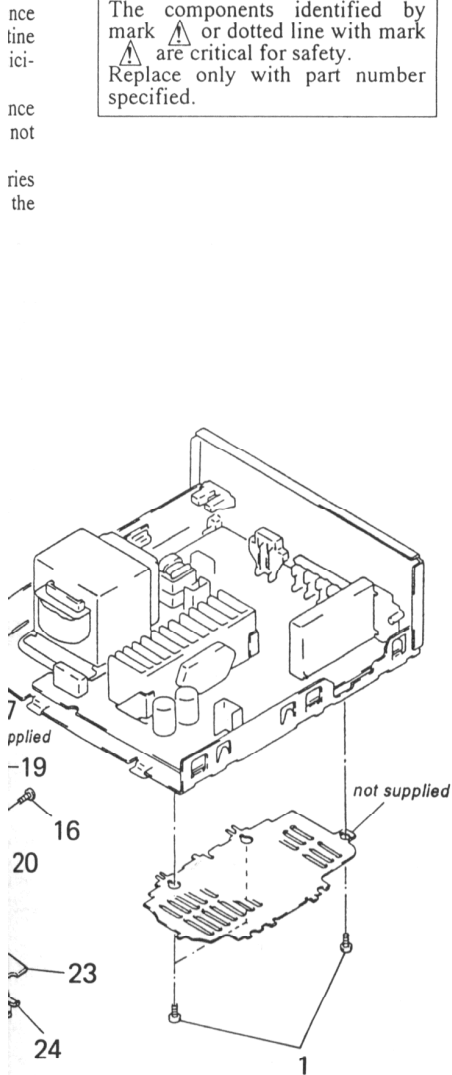
nce
line
ici-

nce
not

ries
the

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

4-2. CHASSIS SECTION



Description	Remark	Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Descrip
20-01 SCREW (2.6×8), +BVTP		51	4-968-100-01	SUPPORT, PC		60	4-975-498-31	PANEL,
48-11 PHONES BOARD		52	4-381-962-11	SCREW +BVTT 4×8 (S)		61	3-703-244-00	BUSHING
94-01 BUTTON (5)		* 53	4-880-403-11	HEAT SINK		62	X-4945-129-1	FOOT AS
28-11 WIRE (FLAT TYPE) (15 CORE)		54	1-537-770-21	TERMINAL BOARD, GROUND		63	4-947-010-01	SCREW,
532-A PANEL BOARD, COMPLETE (AEP, UK)		55	1-533-293-11	FUSE HOLDER		\triangle CNJ1	1-526-794-11	OUTLET,
537-A PANEL BOARD, COMPLETE (G)		56	3-701-947-10	LABEL (T800MA), FUSE (UK)		\triangle CNP1	1-575-651-21	CORD, F
25-11 WIRE (FLAT TYPE) (11 CORE)		* 57	A-4378-530-A	MAIN BOARD, COMPLETE (UK)		\triangle CNP1	1-696-571-11	CORD, F
93-01 BUTTON (7)		* 57	A-4378-780-A	MAIN BOARD, COMPLETE (AEP)		\triangle F1	1-532-078-00	FUSE, T1
43-11 VOLUME BOARD		* 57	A-4378-536-A	MAIN BOARD, COMPLETE (G)		\triangle F1	1-532-215-00	FUSE, T1
47-21 HOLDER, PCB		58	3-704-515-21	SCREW (BV/RING)		\triangle F2	1-532-259-00	FUSE, T1
243-1 BASE ASSY, PANEL		59	3-704-515-41	SCREW (BV/RING)		IC501	8-749-011-51	IC STK4
46-11 TONE BOARD		60	4-975-498-11	PANEL, BACK (AEP)		\triangle T2	1-427-974-11	TRANSFC
95-01 WINDOW		60	4-975-498-21	PANEL, BACK (G)		\triangle T2	1-427-975-11	TRANSFC
41-11 INDICATOR TUBE, FLUORESCENT								

MAIN

**SECTION 5
ELECTRICAL PARTS LIST**

NOTE :

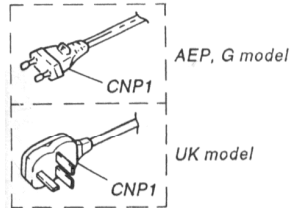
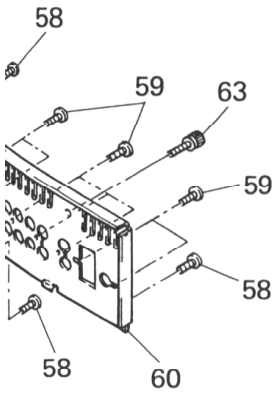
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms
METAL : Metal-film resistor
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 marked Δ or dotted line with mark Δ are critical. Replace only with the part number specified.

When indicating the part number, board.

- Abbreviation
G : German



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

ion	Remark
ACK (UK)	
(2104), CORD	
Y	
FEEDER FIXED	
AC (AC OUTLET)	
WER (AEP, G)	
WER (UK)	
B-LAG (T1A 250V) (AEP, G)	
B-LAG (T0.8A 250V) (UK)	
B-LAG (T1.6A 250V)	

1-250
WER, POWER (AEP, G)
WER, POWER (UK)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	A-4378-530-A	MAIN BOARD, COMPLETE (UK)		C171	1-126-163-11	ELECT	4.7
*	A-4378-536-A	MAIN BOARD, COMPLETE (G)		C172	1-164-070-11	CERAMIC	100
*	A-4378-780-A	MAIN BOARD, COMPLETE (AEP)		C173	1-164-027-11	CERAMIC	220
		*****		C174	1-126-049-11	ELECT	220
	1-533-293-11	FUSE HOLDER		C175	1-126-044-11	ELECT	1uF
		< CAPACITOR >		C201	1-126-044-11	ELECT	1uF
Δ C1	1-161-744-51	CERAMIC	0.01uF 400V	C202	1-126-969-11	ELECT	220
	C102-106			C203	1-126-059-11	ELECT	100
	1-162-286-31	CERAMIC	220PF 10% 50V	C204	1-126-051-11	ELECT	470
C110	1-162-286-31	CERAMIC	220PF 10% 50V	C205	1-126-975-11	ELECT	470
C111	1-126-045-11	ELECT	2.2uF 20% 50V	C206	1-126-975-11	ELECT	470
C112	1-162-282-31	CERAMIC	100PF 10% 50V	C207	1-137-190-00	FILM	0.1
				C208	1-137-190-00	FILM	0.1
C113	1-124-994-11	ELECT	100uF 20% 10V	C209-212			
C114	1-162-219-31	CERAMIC	68PF 5% 50V		1-126-022-11	ELECT	470
C115	1-130-480-00	MYLAR	0.0056uF 5% 50V	C213	1-126-027-11	ELECT	100
C116	1-130-473-00	MYLAR	0.0015uF 5% 50V	C214	1-126-037-91	ELECT	220
C117	1-164-070-11	CERAMIC	100PF 5% 50V	C215	1-136-157-00	FILM	0.1
				C216	1-136-157-00	FILM	0.1
C118	1-126-045-11	ELECT	2.2uF 20% 50V	C217	1-126-059-11	ELECT	100
C119	1-126-022-11	ELECT	47uF 20% 25V	C218	1-126-059-11	ELECT	100
C120	1-126-022-11	ELECT	47uF 20% 25V				
C121	1-126-163-11	ELECT	4.7uF 20% 50V	C219	1-126-941-11	ELECT	470
C122	1-164-070-11	CERAMIC	100PF 5% 50V	C220	1-136-153-00	FILM	0.1
				C221	1-126-059-11	ELECT	100
C123	1-164-027-11	CERAMIC	22PF 5% 50V	C222	1-164-159-11	CERAMIC	0.1
C124	1-126-049-11	ELECT	22uF 20% 50V	C223	1-164-159-11	CERAMIC	0.1
C125	1-126-044-11	ELECT	1uF 20% 50V				
	C152-156			C224	1-126-059-11	ELECT	100
	1-162-286-31	CERAMIC	220PF 10% 50V	C225	1-126-022-11	ELECT	470
C160	1-162-286-31	CERAMIC	220PF 10% 50V	C226	1-126-022-11	ELECT	470
				C227	1-164-159-11	CERAMIC	0.1
C161	1-126-045-11	ELECT	2.2uF 20% 50V	C228	1-164-159-11	CERAMIC	0.1
C162	1-162-282-31	CERAMIC	100PF 10% 50V				
C163	1-124-994-11	ELECT	100uF 20% 10V	C301	1-162-306-11	CERAMIC	0.1
C164	1-162-219-31	CERAMIC	68PF 5% 50V	C302	1-126-059-11	ELECT	100
C165	1-130-480-00	MYLAR	0.0056uF 5% 50V	C303	1-162-306-11	CERAMIC	0.1
				C304	1-126-059-11	ELECT	100
C166	1-130-473-00	MYLAR	0.0015uF 5% 50V	C305	1-162-306-11	CERAMIC	0.1
C167	1-164-070-11	CERAMIC	100PF 5% 50V				
C168	1-126-045-11	ELECT	2.2uF 20% 50V	C306	1-126-022-11	ELECT	470
C169	1-126-022-11	ELECT	47uF 20% 25V	C307	1-162-291-31	CERAMIC	560
C170	1-126-022-11	ELECT	47uF 20% 25V	C308	1-162-288-31	CERAMIC	330

SECTION 5 ELECTRICAL PARTS LIST

- 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
G : German

Remark			Ref. No.	Part No.	Description	Remark		
E (UK)			C171	1-126-163-11	ELECT	4.7uF	20%	50V
E (G)			C172	1-164-070-11	CERAMIC	100PF	5%	50V
E (AEP)			C173	1-164-027-11	CERAMIC	22PF	5%	50V
*			C174	1-126-049-11	ELECT	22uF	20%	50V
			C175	1-126-044-11	ELECT	1uF	20%	50V
			C201	1-126-044-11	ELECT	1uF	20%	50V
			C202	1-126-969-11	ELECT	220uF	20%	50V
			C203	1-126-059-11	ELECT	10uF	20%	50V
1uF	400V		C204	1-126-051-11	ELECT	47uF	20%	50V
			C205	1-126-975-11	ELECT	4700uF	20%	42V
PF	10%	50V						
PF	10%	50V	C206	1-126-975-11	ELECT	4700uF	20%	42V
uF	20%	50V	C207	1-137-190-00	FILM	0.22uF	5%	50V
PF	10%	50V	C208	1-137-190-00	FILM	0.22uF	5%	50V
			C209-212					
uF	20%	10V		1-126-022-11	ELECT	47uF	20%	25V
F	5%	50V	C213	1-126-027-11	ELECT	1000uF	20%	25V
056uF	5%	50V						
015uF	5%	50V	C214	1-126-037-91	ELECT	220uF	20%	35V
PF	5%	50V	C215	1-136-157-00	FILM	0.022uF	5%	50V
			C216	1-136-157-00	FILM	0.022uF	5%	50V
uF	20%	50V	C217	1-126-059-11	ELECT	10uF	20%	50V
F	20%	25V	C218	1-126-059-11	ELECT	10uF	20%	50V
F	20%	25V						
uF	20%	50V	C219	1-126-941-11	ELECT	470uF	20%	25V
PF	5%	50V	C220	1-136-153-00	FILM	0.01uF	5%	50V
			C221	1-126-059-11	ELECT	10uF	20%	50V
F	5%	50V	C222	1-164-159-11	CERAMIC	0.1uF		50V
F	20%	50V	C223	1-164-159-11	CERAMIC	0.1uF		50V
	20%	50V						
			C224	1-126-059-11	ELECT	10uF	20%	50V
PF	10%	50V	C225	1-126-022-11	ELECT	47uF	20%	25V
PF	10%	50V	C226	1-126-022-11	ELECT	47uF	20%	25V
			C227	1-164-159-11	CERAMIC	0.1uF		50V
uF	20%	50V	C228	1-164-159-11	CERAMIC	0.1uF		50V
PF	10%	50V						
uF	20%	10V	C301	1-162-306-11	CERAMIC	0.01uF	30%	16V
F	5%	50V	C302	1-126-059-11	ELECT	10uF	20%	50V
056uF	5%	50V	C303	1-162-306-11	CERAMIC	0.01uF	30%	16V
			C304	1-126-059-11	ELECT	10uF	20%	50V
015uF	5%	50V	C305	1-162-306-11	CERAMIC	0.01uF	30%	16V
PF	5%	50V						
uF	20%	50V	C306	1-126-022-11	ELECT	47uF	20%	25V
uF	20%	25V	C307	1-162-291-31	CERAMIC	560PF	10%	50V
uF	20%	25V	C308	1-162-288-31	CERAMIC	330PF	10%	50V

Ref. No.	Part No.
C309	1-126-
C310	1-102-
C311	1-101-
C312	1-162-
C313	1-126-
C314	1-126-
C315	1-162-
C316	1-162-
C501	1-126-
C502	1-164-
C503	1-164-
C504	1-124-
C505	1-164-
C506	1-126-
C507	1-164-
C508	1-126-
C509-512	
	1-136-
C513	1-136-
C514	1-161-
C515	1-136-
C516	1-162-
C517	1-162-
C551	1-126-
C552	1-164-
C553	1-164-
C554	1-124-
C555	1-164-
C556	1-126-
C557	1-164-
C558	1-126-
C559-562	
	1-136-
C563	1-136-
C564	1-164-
C601	1-164-
C602	1-124-
C603	1-161-
C604	1-124-
* CN1	1-565-
CN2	1-580-
CN4	1-564-
* CN101	1-564-
* CN102	1-564-
* CN201	1-565-
* CN202	1-564-
* CN203	1-568-

MAIN

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C309	1-126-059-11	ELECT	10uF 20% 50V	* CN301	1-568-834-11	SOCKET, CONNECTOR 15P	
C310	1-102-527-11	CERAMIC	82PF 5% 50V	* CN501	1-564-506-11	PLUG, CONNECTOR 3P	
C311	1-101-880-00	CERAMIC	47PF 5% 50V	* CN502	1-564-508-11	PLUG, CONNECTOR 5P	
C312	1-162-306-11	CERAMIC	0.01uF 30% 16V			< DIODE >	
C313	1-126-059-11	ELECT	10uF 20% 50V				
C314	1-126-045-11	ELECT	2.2uF 20% 50V	D101-106			
C315	1-162-306-11	CERAMIC	0.01uF 30% 16V		8-719-987-63	DIODE 1N4148M	
C316	1-162-291-31	CERAMIC	560PF 10% 50V	D201	8-719-987-63	DIODE 1N4148M	
C501	1-126-045-11	ELECT	2.2uF 20% 50V	D202	8-719-987-63	DIODE 1N4148M	
C502	1-164-070-11	CERAMIC	100PF 5% 50V	D203	8-719-200-02	DIODE 10E2	
C503	1-164-070-11	CERAMIC	100PF 5% 50V	D204	8-719-934-22	DIODE HZS30-2L	
C504	1-124-994-11	ELECT	100uF 20% 10V	D205	8-719-014-56	DIODE UZP-5.1B (UK)	
C505	1-164-019-11	CERAMIC	10PF 0.5PF 50V	D205	8-719-014-74	DIODE UZP-6.2B (AEP, G)	
C506	1-126-052-91	ELECT	100uF 20% 50V	D206	8-719-001-64	DIODE UZL-12L2	
C507	1-164-159-11	CERAMIC	0.1uF 50V	D207	8-719-001-91	DIODE UZL-15M	
C508	1-126-059-11	ELECT	10uF 20% 50V	D208	8-719-001-91	DIODE UZL-15M	
C509-512				D209	8-719-200-82	DIODE 11ES2	
	1-136-165-00	FILM	0.1uF 5% 50V	D210-216			
C513	1-136-153-00	FILM	0.01uF 5% 50V		8-719-200-82	DIODE 11ES2	
C514	1-161-494-00	CERAMIC	0.022uF 25V	D217	8-719-510-68	DIODE D5SBA20F01	
C515	1-136-157-00	FILM	0.022uF 5% 50V	D218	8-719-987-63	DIODE 1N4148M	
C516	1-162-282-31	CERAMIC	100PF 10% 50V	D219	8-719-200-82	DIODE 11ES2	
C517	1-162-282-31	CERAMIC	100PF 10% 50V	D220	8-719-200-82	DIODE 11ES2	
C551	1-126-045-11	ELECT	2.2uF 20% 50V	D221	8-719-933-33	DIODE HZS6A1L	
C552	1-164-070-11	CERAMIC	100PF 5% 50V	D222	8-719-933-33	DIODE HZS6A1L	
C553	1-164-070-11	CERAMIC	100PF 5% 50V	D601-603			
C554	1-124-994-11	ELECT	100uF 20% 10V		8-719-987-63	DIODE 1N4148M	
C555	1-164-019-11	CERAMIC	10PF 0.5PF 50V	D651	8-719-987-63	DIODE 1N4148M	
C556	1-126-052-91	ELECT	100uF 20% 50V	D652	8-719-987-63	DIODE 1N4148M	
C557	1-164-159-11	CERAMIC	0.1uF 50V			< FUSE >	
C558	1-126-059-11	ELECT	10uF 20% 50V	△F1	1-532-078-00	FUSE, TIME-LAG (T1A 250V) (AEP, G)	
C559-562				△F1	1-532-215-00	FUSE, TIME-LAG (T0.8A 250V) (UK)	
	1-136-165-00	FILM	0.1uF 5% 50V	△F2	1-532-259-00	FUSE, TIME-LAG (T1.6A 250V)	
C563	1-136-153-00	FILM	0.01uF 5% 50V			< IC >	
C564	1-164-159-11	CERAMIC	0.1uF 50V	IC101	8-759-710-59	IC NJM4580D-D	
C601	1-164-085-11	CERAMIC	0.001uF 10% 50V	IC102	8-759-711-35	IC NJM4580D	
C602	1-124-994-11	ELECT	100uF 20% 10V	IC103-105			
C603	1-161-494-00	CERAMIC	0.022uF 25V		8-759-051-63	IC TC9215P	
C604	1-124-994-11	ELECT	100uF 20% 10V	IC203	8-759-231-53	IC TA7805S	
		< CONNECTOR >		IC301	8-759-634-51	IC M5218AP	
* CN1	1-565-792-11	PIN, CONNECTOR 2P		IC302	8-759-169-99	IC SAA6579	
CN2	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P		IC501	8-749-011-51	IC STK401-250	
CN4	1-564-321-00	PIN, CONNECTOR 2P		IC601	8-759-111-68	IC uPC1237HA	
* CN101	1-564-509-11	PLUG, CONNECTOR 6P				< JACK >	
* CN102	1-564-506-11	PLUG, CONNECTOR 3P		J101	1-565-352-11	JACK, PIN 2P (PHONO INPUT)	
* CN201	1-565-561-11	PIN, CONNECTOR 3P (AU BUS)		J102	1-770-765-11	JACK, PIN 4P (CD LINE IN, TAPE LINE OUT)	
* CN202	1-564-915-11	PIN, CONNECTOR 7P					
* CN203	1-568-830-11	SOCKET, CONNECTOR 11P					

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

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
J103	1-565-320-61	JACK, PIN 6P (TAPE LINE IN, MD LINE OUT, MD LINE IN)		R138	1-259-452-11	CARBON	10K 5% 1/6W
		< COIL >		R139	1-259-452-11	CARBON	10K 5% 1/6W
* L501	1-420-872-00	COIL, AIR CORE		R151	1-259-428-11	CARBON	1K 5% 1/6W
* L551	1-420-872-00	COIL, AIR CORE		R154	1-259-428-11	CARBON	1K 5% 1/6W
		< TRANSISTOR >		R155	1-259-500-11	CARBON	1M 5% 1/6W
Q101	8-729-141-30	TRANSISTOR 2SC3623A-LK		R156	1-259-420-11	CARBON	470 5% 1/6W
Q151	8-729-141-30	TRANSISTOR 2SC3623A-LK		R157	1-259-428-11	CARBON	1K 5% 1/6W
Q201	8-729-620-05	TRANSISTOR 2SC2603-EF		R158	1-259-500-11	CARBON	1M 5% 1/6W
Q202	8-729-209-15	TRANSISTOR 2SD2012		R159	1-259-420-11	CARBON	470 5% 1/6W
Q203	8-729-140-97	TRANSISTOR 2SB734-34		R160	1-259-428-11	CARBON	1K 5% 1/6W
Q204	8-729-140-96	TRANSISTOR 2SD774-34		R161	1-259-500-11	CARBON	1M 5% 1/6W
Q205	8-729-140-97	TRANSISTOR 2SB734-34		R168	1-259-476-11	CARBON	100K 5% 1/6W
Q206	8-729-202-67	TRANSISTOR 2SK246-GR3		R169	1-259-428-11	CARBON	1K 5% 1/6W
Q301	8-729-141-30	TRANSISTOR 2SC3623A-LK		R170	1-259-476-11	CARBON	100K 5% 1/6W
Q302	8-729-141-30	TRANSISTOR 2SC3623A-LK		R171	1-259-428-11	CARBON	1K 5% 1/6W
Q601	8-729-140-82	TRANSISTOR 2SA988-PAFAEA		R172	1-259-494-11	CARBON	560K 5% 1/6W
Q651	8-729-140-82	TRANSISTOR 2SA988-PAFAEA		R174	1-259-468-11	CARBON	47K 5% 1/6W
		< RESISTOR >		R176	1-259-412-11	CARBON	220 5% 1/6W
R101	1-259-428-11	CARBON	1K 5% 1/6W	R177	1-259-476-11	CARBON	100K 5% 1/6W
R104	1-259-428-11	CARBON	1K 5% 1/6W	R178	1-259-500-11	CARBON	1M 5% 1/6W
R105	1-259-500-11	CARBON	1M 5% 1/6W	R179	1-259-476-11	CARBON	100K 5% 1/6W
R106	1-259-420-11	CARBON	470 5% 1/6W	R180	1-259-428-11	CARBON	1K 5% 1/6W
R107	1-259-428-11	CARBON	1K 5% 1/6W	R181	1-259-428-11	CARBON	1K 5% 1/6W
R108	1-259-500-11	CARBON	1M 5% 1/6W	R182	1-259-442-11	CARBON	3.9K 5% 1/6W
R109	1-259-420-11	CARBON	470 5% 1/6W	R183	1-259-428-11	CARBON	1K 5% 1/6W
R110	1-259-428-11	CARBON	1K 5% 1/6W	R184	1-259-452-11	CARBON	10K 5% 1/6W
R111	1-259-500-11	CARBON	1M 5% 1/6W	R201	1-259-435-11	CARBON	2.2K 5% 1/6W
R118	1-259-476-11	CARBON	100K 5% 1/6W	R202	1-259-452-11	CARBON	10K 5% 1/6W
R119	1-259-428-11	CARBON	1K 5% 1/6W	R203	1-259-452-11	CARBON	10K 5% 1/6W
R120	1-259-476-11	CARBON	100K 5% 1/6W	△R204	1-219-136-11	FUSIBLE	0.22 10% 1/4W F
R121	1-259-428-11	CARBON	1K 5% 1/6W	△R205	1-219-136-11	FUSIBLE	0.22 10% 1/4W F
R122	1-259-494-11	CARBON	560K 5% 1/6W	△R206	1-212-873-11	FUSIBLE	47 5% 1/4W F
R124	1-259-468-11	CARBON	47K 5% 1/6W	R207	1-259-440-11	CARBON	3.3K 5% 1/6W
R126	1-259-412-11	CARBON	220 5% 1/6W	R208	1-259-440-11	CARBON	3.3K 5% 1/6W
R127	1-259-476-11	CARBON	100K 5% 1/6W	R209	1-259-436-11	CARBON	2.2K 5% 1/6W
R128	1-259-500-11	CARBON	1M 5% 1/6W	R210	1-249-689-11	CARBON	4.7K 5% 1/2W
R129	1-259-476-11	CARBON	100K 5% 1/6W	△R211	1-212-934-00	FUSIBLE	1 5% 1/2W F
R130	1-259-428-11	CARBON	1K 5% 1/6W	R301	1-259-440-11	CARBON	3.3K 5% 1/6W
R131	1-259-428-11	CARBON	1K 5% 1/6W	R302	1-259-452-11	CARBON	10K 5% 1/6W
R132	1-259-442-11	CARBON	3.9K 5% 1/6W	R303	1-249-401-11	CARBON	47 5% 1/4W
R133	1-259-428-11	CARBON	1K 5% 1/6W	R305	1-259-428-11	CARBON	1K 5% 1/6W
R134	1-259-452-11	CARBON	10K 5% 1/6W	R306	1-259-428-11	CARBON	1K 5% 1/6W
R136	1-259-476-11	CARBON	100K 5% 1/6W	R307	1-249-401-11	CARBON	47 5% 1/4W
R137	1-259-452-11	CARBON	10K 5% 1/6W	R308	1-259-476-11	CARBON	100K 5% 1/6W
				R309	1-259-476-11	CARBON	100K 5% 1/6W
				R310	1-259-460-11	CARBON	22K 5% 1/6W
				R311	1-259-446-11	CARBON	5.6K 5% 1/6W
				R312	1-249-405-11	CARBON	100 5% 1/4W
				R313	1-259-436-11	CARBON	2.2K 5% 1/6W

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

MAIN	PANEL
-------------	--------------

Ref. No.	Part No.	Description	Remark
R314	1-259-476-11	CARBON	100K 5% 1/6W
R501	1-259-428-11	CARBON	1K 5% 1/6W
R502	1-259-472-11	CARBON	68K 5% 1/6W
R503	1-259-420-11	CARBON	470 5% 1/6W
R504	1-259-472-11	CARBON	68K 5% 1/6W
△R505	1-212-881-11	FUSIBLE	100 5% 1/4W F
R507	1-247-727-11	CARBON	10 5% 1/2W
R508	1-247-727-11	CARBON	10 5% 1/2W
R510	1-247-727-11	CARBON	10 5% 1/2W
R551	1-259-428-11	CARBON	1K 5% 1/6W
R552	1-259-472-11	CARBON	68K 5% 1/6W
R553	1-259-420-11	CARBON	470 5% 1/6W
R554	1-259-472-11	CARBON	68K 5% 1/6W
△R555	1-212-881-11	FUSIBLE	100 5% 1/4W F
R557	1-247-727-11	CARBON	10 5% 1/2W
R558	1-247-727-11	CARBON	10 5% 1/2W
R560	1-247-727-11	CARBON	10 5% 1/2W
R601	1-259-428-11	CARBON	1K 5% 1/6W
R602	1-259-456-11	CARBON	15K 5% 1/6W
R603	1-259-484-11	CARBON	220K 5% 1/6W
△R604	1-217-611-00	RES, METAL PLATE	0.1 F
△R605	1-215-914-11	METAL OXIDE	330 5% 3W F (AEP, G)
△R605	1-215-913-11	METAL OXIDE	220 5% 3W F (UK)
R606	1-259-452-11	CARBON	10K 5% 1/6W
R607	1-259-484-11	CARBON	220K 5% 1/6W
R608	1-259-468-11	CARBON	47K 5% 1/6W
R609	1-259-444-11	CARBON	4.7K 5% 1/6W
R610	1-259-444-11	CARBON	4.7K 5% 1/6W
R651	1-259-428-11	CARBON	1K 5% 1/6W
R652	1-259-456-11	CARBON	15K 5% 1/6W
R653	1-259-484-11	CARBON	220K 5% 1/6W
△R654	1-217-611-00	RES, METAL PLATE	0.1 F
< RELAY >			
△RY201	1-515-849-11	RELAY	
RY601	1-515-920-11	RELAY (24V)	
< TRANSFORMER >			
△T1	1-449-071-21	TRANSFORMER, POWER	
< TUNER UNIT >			
TB301	1-693-287-11	TUNER UNIT (G)	
TB301	1-233-375-11	TUNER UNIT (AEP, UK)	
< TERMINAL >			
TB1	1-535-139-00	BASE POST 22MM (10MM PITCH) 2P	
TM301	1-537-714-11	TERMINAL BOARD (ANTENNA)	
TM501	1-537-494-11	TERMINAL BOARD (SPEAKERS)	

Ref. No.	Part No.	Description	Remark
< VIBRATOR >			
X301	1-579-900-21	VIBRATOR, CRYSTAL (4.332MHz)	

*	A-4378-532-A	PANEL BOARD, COMPLETE (AEP, UK)	
*	A-4378-537-A	PANEL BOARD, COMPLETE (G)	

< CAPACITOR >			
C701	1-126-154-11	ELECT	47uF 20% 6.3V
C702	1-162-306-11	CERAMIC	0.01uF 30% 16V
C703	1-125-486-11	DOUBLE LAYERS	0.22F 5.5V
C704	1-162-306-11	CERAMIC	0.01uF 30% 16V
C705	1-161-494-00	CERAMIC	0.022uF 25V
C706	1-164-159-11	CERAMIC	0.1uF 50V
C707	1-164-159-11	CERAMIC	0.1uF 50V
C709	1-162-306-11	CERAMIC	0.01uF 30% 16V
C710	1-126-177-11	ELECT	100uF 20% 10V
C711	1-126-157-11	ELECT	10uF 20% 16V
C712	1-126-301-11	ELECT	1uF 20% 50V
C713	1-126-301-11	ELECT	1uF 20% 50V
< CONNECTOR >			
* CN701	1-568-834-11	SOCKET, CONNECTOR 15P	
* CN702	1-564-508-11	PLUG, CONNECTOR 5P	
* CN703	1-568-830-11	SOCKET, CONNECTOR 11P	
< DIODE >			
D701-703	8-719-987-63	DIODE 1N4148M	
D704	8-719-313-43	LED SEL6210S-TH10 (SOURCE DIRECT)	
D705-707	8-719-987-63	DIODE 1N4148M	
< INDICATOR TUBE >			
FL701	1-517-141-11	INDICATOR TUBE, FLUORESCENT	
< IC >			
IC701	8-759-346-89	IC uPD78044AGF-109-3B9	
IC702	8-759-256-72	IC PST994D	
IC703	8-749-920-83	IC GP1U52XB	
< COIL >			
L701	1-410-521-11	INDUCTOR	100uH
< TRANSISTOR >			
Q701	8-729-900-36	TRANSISTOR DTC124ES	
Q702	8-729-900-63	TRANSISTOR DTA124ES	

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

PANEL

PHONES

POWER SW

Ref. No.	Part No.	Description	Remark
Q703	8-729-900-63	TRANSISTOR	DTA124ES
Q704	8-729-900-61	TRANSISTOR	DTA114ES
Q705	8-729-620-05	TRANSISTOR	2SC2603-EF
< RESISTOR >			
R701	1-249-429-11	CARBON	10K 5% 1/4W
R702-707	1-249-411-11	CARBON	330 5% 1/4W
R708	1-249-433-11	CARBON	22K 5% 1/4W
R709	1-249-433-11	CARBON	22K 5% 1/4W
R710-712	1-249-411-11	CARBON	330 5% 1/4W
R713	1-249-433-11	CARBON	22K 5% 1/4W
R714	1-249-417-11	CARBON	1K 5% 1/4W
R715	1-249-411-11	CARBON	330 5% 1/4W
R716	1-249-413-11	CARBON	470 5% 1/4W
R717	1-249-425-11	CARBON	4.7K 5% 1/4W
R720	1-249-435-11	CARBON	33K 5% 1/4W
R721	1-249-431-11	CARBON	15K 5% 1/4W
R722	1-249-427-11	CARBON	6.8K 5% 1/4W
R723	1-249-423-11	CARBON	3.3K 5% 1/4W
R724	1-249-421-11	CARBON	2.2K 5% 1/4W
R725	1-249-419-11	CARBON	1.5K 5% 1/4W
R726	1-249-417-11	CARBON	1K 5% 1/4W
R727	1-249-415-11	CARBON	680 5% 1/4W
R728	1-249-413-11	CARBON	470 5% 1/4W
R729	1-249-411-11	CARBON	330 5% 1/4W
R730	1-249-409-11	CARBON	220 5% 1/4W
R731	1-249-441-11	CARBON	100K 5% 1/4W
R732	1-249-411-11	CARBON	330 5% 1/4W
R733	1-249-411-11	CARBON	330 5% 1/4W
R734	1-249-413-11	CARBON	470 5% 1/4W
R735	1-249-413-11	CARBON	470 5% 1/4W
R736	1-249-409-11	CARBON	220 5% 1/4W
R737	1-249-429-11	CARBON	10K 5% 1/4W
R738	1-249-423-11	CARBON	3.3K 5% 1/4W
R739	1-249-425-11	CARBON	4.7K 5% 1/4W
R740	1-249-411-11	CARBON	330 5% 1/4W
R741	1-249-411-11	CARBON	330 5% 1/4W
R742	1-249-429-11	CARBON	10K 5% 1/4W
R743	1-249-429-11	CARBON	10K 5% 1/4W
R744	1-249-393-11	CARBON	10 5% 1/4W
R746	1-249-441-11	CARBON	100K 5% 1/4W
R748	1-249-441-11	CARBON	100K 5% 1/4W
R749	1-249-441-11	CARBON	100K 5% 1/4W (AEP, UK)
R750	1-249-441-11	CARBON	100K 5% 1/4W (G)
R751-759	1-249-441-11	CARBON	100K 5% 1/4W

Ref. No.	Part No.	Description	Remark
< SWITCH >			
S701	1-554-303-21	SWITCH, TACTILE (EON)	
S702	1-554-303-21	SWITCH, TACTILE (PTY)	
S703	1-554-303-21	SWITCH, TACTILE (DISPLAY)	
S704	1-554-303-21	SWITCH, TACTILE (CHARACTER)	
S705	1-554-303-21	SWITCH, TACTILE (STEREO/MONO)	
S706	1-554-303-21	SWITCH, TACTILE (TUNING MODE)	
S707	1-554-303-21	SWITCH, TACTILE (MEMORY/ENTER)	
S708	1-554-303-21	SWITCH, TACTILE (TUNING/SELECT -)	
S709	1-554-303-21	SWITCH, TACTILE (TUNING/SELECT +)	
S710	1-554-303-21	SWITCH, TACTILE (BAND)	
S711	1-554-303-21	SWITCH, TACTILE (FUNCTION)	
S712	1-554-303-21	SWITCH, TACTILE (SOURCE DIRECT)	
< VIBRATOR >			
X701	1-579-233-11	VIBRATOR, CERAMIC (5MHz)	

*	1-656-548-11	PHONES BOARD	

< CONNECTOR >			
* CN503	1-564-508-11	PLUG, CONNECTOR 5P	
< JACK >			
J501	1-507-854-21	JACK, LARGE TYPE (PHONES)	
< RESISTOR >			
R509	1-249-661-11	CARBON	330 5% 1/2W
R559	1-249-661-11	CARBON	330 5% 1/2W

*	1-656-547-11	POWER SW BOARD	

< CAPACITOR >			
C708	1-162-306-11	CERAMIC	0.01uF 30% 16V
< DIODE >			
D708	8-719-313-40	LED	SML1516W (ON/STANDBY)
< SWITCH >			
S713	1-554-118-00	SWITCH, PUSH (1 KEY) (POWER)	

TRONIC VOLUME

Ref. No.	Part No.	Description	Remark
*	1-656-546-11	TONE BOARD *****	
		< CAPACITOR >	
C401	1-162-286-31	CERAMIC 220PF	10% 50V
C402	1-136-167-00	FILM 0.15uF	5% 50V
C403	1-137-195-11	FILM 0.56uF	5% 50V
C404	1-136-156-00	FILM 0.018uF	5% 50V
C405	1-136-495-11	FILM 0.068uF	5% 50V
C451	1-162-286-31	CERAMIC 220PF	10% 50V
C452	1-136-167-00	FILM 0.15uF	5% 50V
C453	1-137-195-11	FILM 0.56uF	5% 50V
C454	1-136-156-00	FILM 0.018uF	5% 50V
C455	1-136-495-11	FILM 0.068uF	5% 50V
		< CONNECTOR >	
* CN401	1-564-521-11	PLUG, CONNECTOR 6P	
		< RESISTOR >	
R401	1-259-420-11	CARBON 470 5%	1/6W
R402	1-259-440-11	CARBON 3.3K 5%	1/6W
R403	1-259-428-11	CARBON 1K 5%	1/6W
R404	1-259-464-11	CARBON 33K 5%	1/6W
R405	1-259-424-11	CARBON 680 5%	1/6W
R451	1-259-420-11	CARBON 470 5%	1/6W
R452	1-259-440-11	CARBON 3.3K 5%	1/6W
R453	1-259-428-11	CARBON 1K 5%	1/6W
R454	1-259-464-11	CARBON 33K 5%	1/6W
R455	1-259-424-11	CARBON 680 5%	1/6W
		< VARIABLE RESISTOR >	
RV401	1-223-919-11	RES, VAR, CARBON 10K/10K (BASS)	
RV402	1-223-919-11	RES, VAR, CARBON 10K/10K (TREBLE)	
RV403	1-223-920-11	RES, VAR, CARBON 100K/100K (BALANCE)	

*	1-656-543-11	VOLUME BOARD *****	
		< CAPACITOR >	
C406	1-164-159-11	CERAMIC 0.1uF	50V
C407	1-124-994-11	ELECT 100uF	20% 10V
		< CONNECTOR >	
* CN402	1-564-506-11	PLUG, CONNECTOR 3P	
CN403	1-564-506-11	PLUG, CONNECTOR 3P	
* CN404	1-564-508-11	PLUG, CONNECTOR 5P	

Ref. No.	Part No.	Description	Remark
		< DIODE >	
D401	8-719-200-82	DIODE 11ES2	
		< IC >	
IC401	8-759-962-08	IC BA6208	
		< RESISTOR >	
R410	1-249-389-11	CARBON 4.7 5% 1/4W	
		< VARIABLE RESISTOR >	
RV404	1-241-921-11	RES, VAR, CARBON 120K/120K (ATTENUATOR)	

		MISCELLANEOUS *****	
19	1-773-028-11	WIRE (FLAT TYPE) (15 CORE)	
21	1-765-325-11	WIRE (FLAT TYPE) (11 CORE)	
54	1-537-770-21	TERMINAL BOARD, GROUND	
55	1-533-293-11	FUSE HOLDER	
△CNJ1	1-526-794-11	OUTLET, AC (AC OUTLET)	
△CNP1	1-575-651-21	CORD, POWER (AEP, G)	
△CNP1	1-696-571-11	CORD, POWER (UK)	
△T2	1-427-974-11	TRANSFORMER, POWER (AEP, G)	
△T2	1-427-975-11	TRANSFORMER, POWER (UK)	

		ACCESSORIES & PACKING MATERIALS *****	
		1-467-796-11 REMOTE COMMANDER (RM-S1)	
		1-501-594-31 ANTENNA (FM)	
		1-501-721-11 ANTENNA (LOOP)	
		1-775-411-11 CORD (WITH CONNECTOR)	
		3-363-099-21 SCREW (CASE 3 TP2)	
		3-800-465-11 MANUAL, INSTRUCTION (ENGLISH/FRENCH/ SPANISH/PORTUGUESE) (AEP)	
		3-800-465-41 MANUAL, INSTRUCTION (GERMAN/DUTCH/ SWEDISH/ITALIAN) (AEP, G)	
		3-800-465-51 MANUAL, INSTRUCTION (ENGLISH) (UK)	
		4-955-381-01 CASE, BATTERY (FOR RM-S1)	
*		4-968-991-01 CUSHION	
		4-976-722-01 PLATE (PIN JACK 10P), INDICATION	
*		4-977-250-01 INDIVIDUAL CARTON (AEP, G)	
*		4-977-251-01 INDIVIDUAL CARTON (UK)	
		X-4945-464-1 SCREW ASSY (4)	

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