ORDER NO. AD9605131A2

Service Manual

Stereo Integrated Amplifier

Amplifier

SU-A600MK3

Colour (K) ..... Black Type

Areas

(E) ..... Europe
(EB) ..... Great Britain
(EM) ..... Switzerland

Note1: • Please file and use this manual together with the service manual for Model No. SU-A700MK3, Order No. AD9605130C2.

Note2: • This simplified service manual is provided to indicate the main differences between the original No. SU-A700MK3 and the subsequent model No. SU-A600MK3.

Note3: • Major differences between SU-A700MK3 and SU-A600MK3.

Main Volume:	SU-A700MK3.....	Motor Drive
	SU-A600MK3.....	Manual
Remote Sensor:	SU-A700MK3.....	Built-in
	SU-A600MK3.....	Nothing

Note4: • However, in regard to the sections of the "Replacement Parts List", "Schmatic Diagram" and "Printed Circuit Board Diagram", are printed in this manual.

Specifications (DIN 45 500)

20 Hz – 20 kHz continuous power output both channels driven
2 x 37 W (8 ohm)
1 kHz continuous power output both channels driven (THD: 1%)
2 x 45 W (8 ohm), 2 x 60 W (4 ohm)
63 Hz – 12.5 kHz continuous power output both channels driven (THD: 0.7%)
2 x 40 W (8 ohm), 2 x 55 W (4 ohm)
Total harmonic distortion rated power at 20 Hz – 20 kHz
0.01% (8 ohm)
Intermodulation distortion (50 Hz: 7 kHz = 4:1, SMPTE) rated power
0.007% (8 ohm)
Residual hum and noise
1 mV
Damping factor
60 (8 ohm), 30 (4 ohm)
Headphones output level/impedance
540 mV/330 ohm
Load impedance
A or B, 4 – 16 ohm
A and B, 8 – 16 ohm
Input sensitivity/impedance
PHONO MM, 2.5 mV/47 k ohm
TUNER, CD, AUX, TAPE 1, TAPE 2/DCC, 150 mV/22 k ohm
Phono maximum input voltage (1 kHz, RMS)
MM, 150 mV (150 mV, IHF '66)
S/N (rated power, 4 ohm)
PHONO MM, 76 dB (78 dB, IHF '66)
TUNER, CD, AUX, TAPE 1, TAPE 2/DCC
91 dB (99 dB, IHF '66)
S/N at – 26 dB power (4 ohm)
PHONO MM, 68 dB
TUNER, CD, AUX, TAPE 1, TAPE 2/DCC, 70 dB
S/N at 50 mW power (4 ohm)
PHONO MM, 64 dB
TUNER, CD, AUX, TAPE 1, TAPE 2/DCC, 64 dB
Frequency response
PHONO MM, RIAA standard curve +1 to -1 dB (30 Hz – 15 kHz)
TUNER, CD, AUX, TAPE 1, TAPE 2/DCC
3 Hz – 80 kHz (+0, –3 dB) 20 Hz – 20 kHz (+0, – 0.3 dB)
Tone controls
BASS, 50 Hz, +10 to –10 dB
TREBLE, 20 kHz, +10 to –10 dB
Output voltage
TAPE 1, TAPE 2/DCC REC OUT, 150 mV
Channel balance (AUX 250 Hz – 6.3 kHz), +1 to -1 dB
Channel separation (AUX 1 kHz), 50 dB

GENERAL
Power consumption, 170 W
Power supply
For (E) and (EM) areas, 50 Hz AC, 230 V
For (EB) area, 50 Hz AC, 230 V – 240 V
Dimensions, 430 **(Wide)**/ 125 **(High)**/ 318 **(Depth)** mm
Weight, 6.1 kg

Notes:
1. Specifications are subject to change without notice. Weight and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

⚠WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Technics®

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Before Repair

(1) Turn off the power supply. Using a 10 Ω, 10 W resistor, connect both ends of power supply capacitors (C701, C702) in order to discharge the voltage.
(2) Before turning the power supply on, after completion of repair, slowly apply the primary voltage by using a power supply voltage controller to make sure that the consumed current at 50 Hz in NO SIGNAL mode should be shown below with respect to supply voltage 230 V—240 V.

Power supply voltage : AC 230 V ⇨ 50~250 mA (Consumed current 50Hz)
Power supply voltage : AC 240 V ⇨ 40~240 mA (Consumed current 50Hz)

Protection circuitry

The protection circuitry may have operated if either of the following conditions is noticed:
* No sound is heard when the power is switched ON.
* Sound stops during a performance.

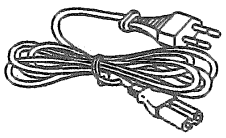
The functions of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.
If this occurs, follow the procedure outlined below:
1. Switch OFF the power.
2. Determine the cause of the problem and correct it.
3. Switch ON the power once again.

Note:
When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

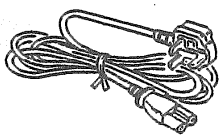
Accessories

* AC power supply cord 1

for (E), (EM) areas : (RJA0019-2K)



for (EB) area : (RJA0049-K)



■ Function of IC Terminals

IC801 (M37470M2232S)

Pin No.	Terminal Name	I/O	Function
1	P17/SRDY	O	Relay (Power SW) drive signal output.
2	P16/CLK	O	Remote control signal output.
3	P15/SOUT	O	LED (TAPE 1) drive signal output.
4	P14/SIN	O	LED (TAPE 2) drive signal output.
5	P13/TI	O	LED (SOURCE) drive signal output.
6	P12/TO	O	Input select LED drive signal output.
7	P11	O	
8	P10	O	
9	P23/IN3	O	Motor (volume control) drive signal output.
10	P22/IN2	O	
11	P21/IN1	I	Input select switch signal input.
12	P20/IN0	I	Switch (POWER, SPEAKER A/B) signal input.
13	VREF	I	Reference voltage input.
14	XIN	I	Oscillator signal I/O terminal. (4 MHz)
15	XOUT	O	
16	VSS	—	GND terminal.

Pin No.	Terminal Name	I/O	Function
17	VCC	I	Power supply (+5V).
18	RESET	I	System reset signal input.
19	P30/INTO	I	Back-up detect signal input.
20	P31/INTI	I	Remote control receive signal input.
21	P32/CNRO	I	Power SW signal input.
22	P33/CNRI	—	No used. Connected to GND.
23	P40	O	Strobe signal input for Input Selector IC (IC201).
24	P41	O	Clock signal input for Input Selector IC (IC201).
25	P00	O	Data signal input for Input Selector IC (IC201).
26	P01	O	SPEAKER A select signal output.
27	P02	O	SPEAKER B select signal output.
28	P03	O	Selector Relay drive signal output.
29	P04	O	
30	P05	O	
31	P06	O	
32	P07	O	Audio muting control signal output.

■ Schematic Diagram

Notes:

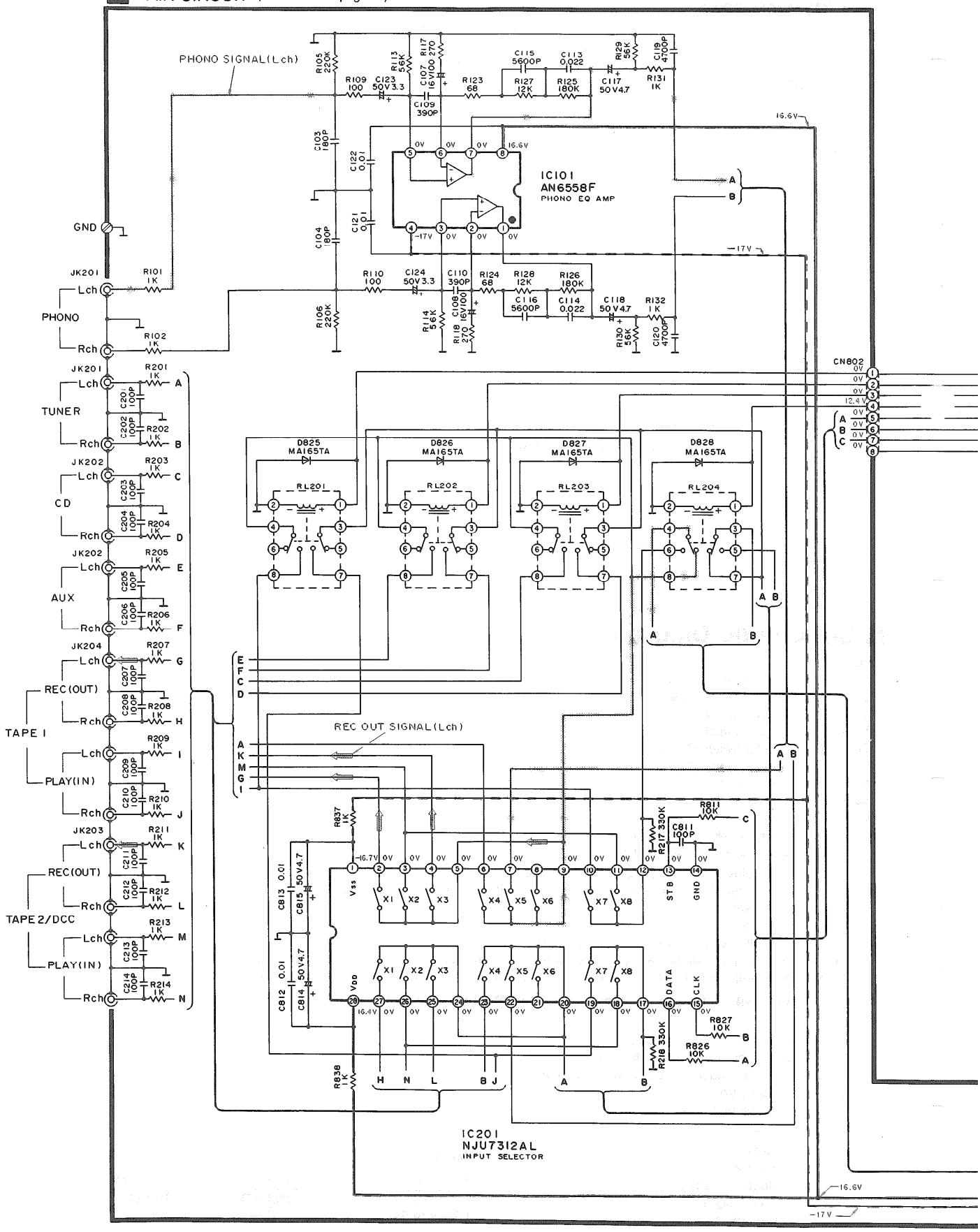
- **S1** : Power Standby ⏻ /ON switch.
- **S204**: TONE control switch (ON/DEFEAT).
- **S801**: TAPE MONITOR switch.
- **S802**: Input selector switch (TAPE 1).
- **S803**: Input selector switch (TAPE 2/DCC).
- **S804**: Input selector switch (AUX).
- **S805**: Input selector switch (CD).
- **S806**: Input selector switch (TUNER).
- **S807**: Input selector switch (PHONO).
- **S810**: Speaker select switch (SPEAKER A).
- **S811**: Speaker select switch (SPEAKER B).

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
  No mark: Power ON
- Important safety notice:
  Components identified by ⚠ mark have special characteristics important for safety.
  Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
- **This schematic diagram may be modified at any time with the development of new technology.**
- **Caution!**
  IC and LSI are sensitive to static electricity.
  Secondary trouble can be prevented by taking care during repair.
  Cover the parts boxes made of plastics with aluminum foil.
  Ground the soldering iron.
  Put a conductive mat on the work table.
  Do not touch the legs of IC or LSI with the fingers directly.
- **Voltage and signal line**
  ——— : Positive voltage line.
  — — — : Negative voltage line.
  : Phono signal line.
  : Recording output signal line.

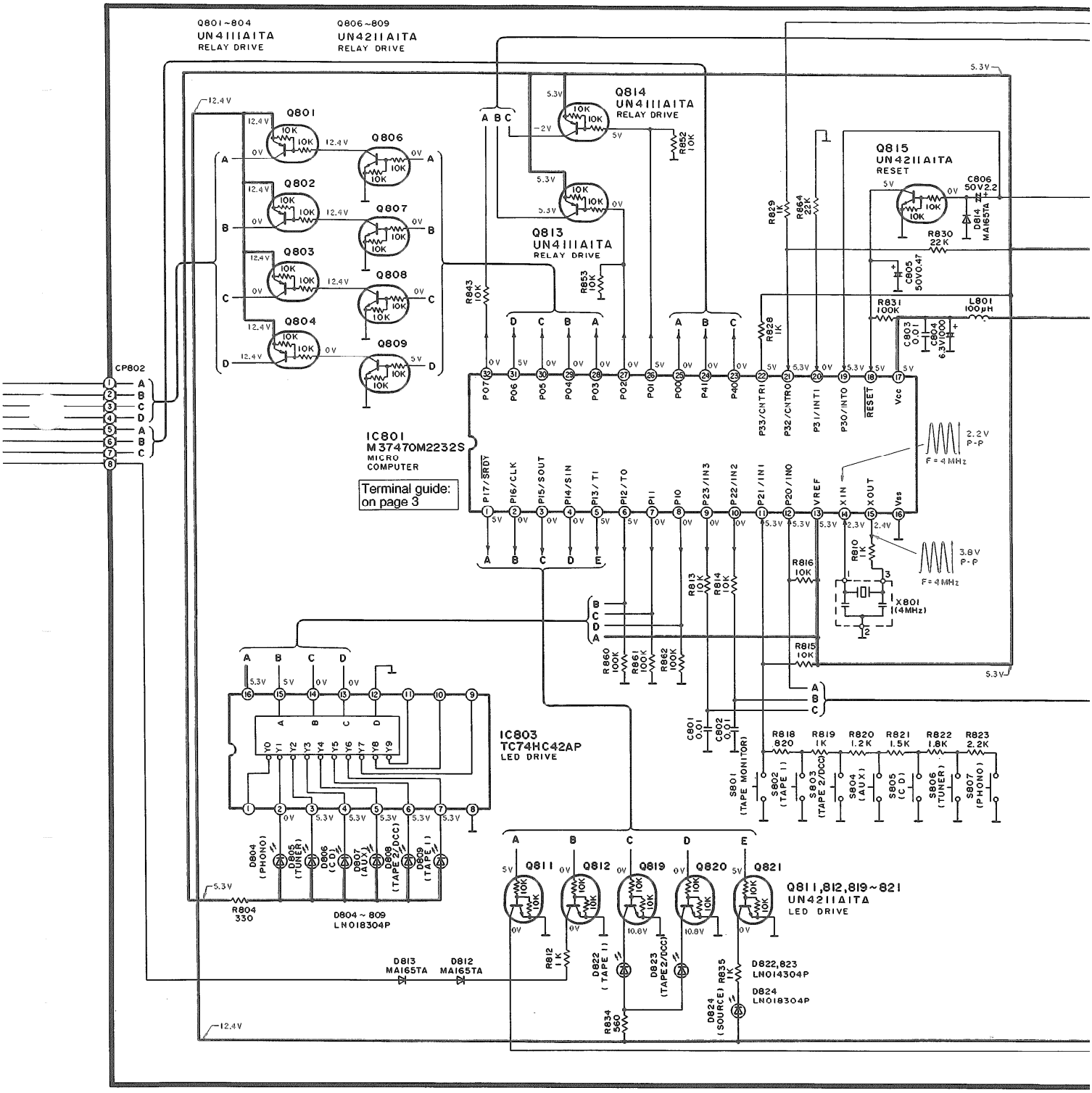
- **Major differences between SU-A700MK3 and SU-A600MK3.**

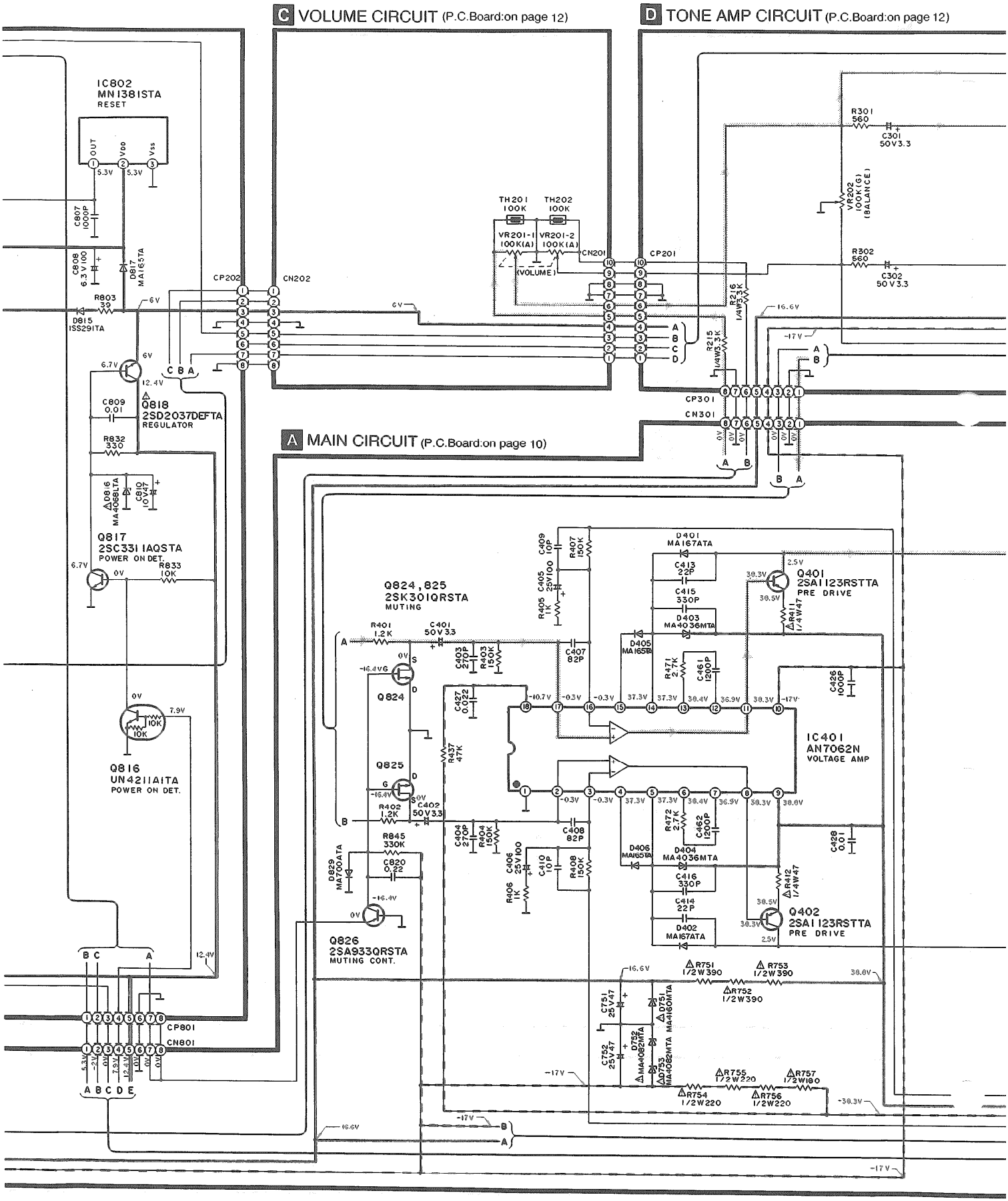
Functions	SU-A700MK3	SU-A600MK3
Main Volume	Motor Drive	Manual
Remote Sensor	Built-in	———

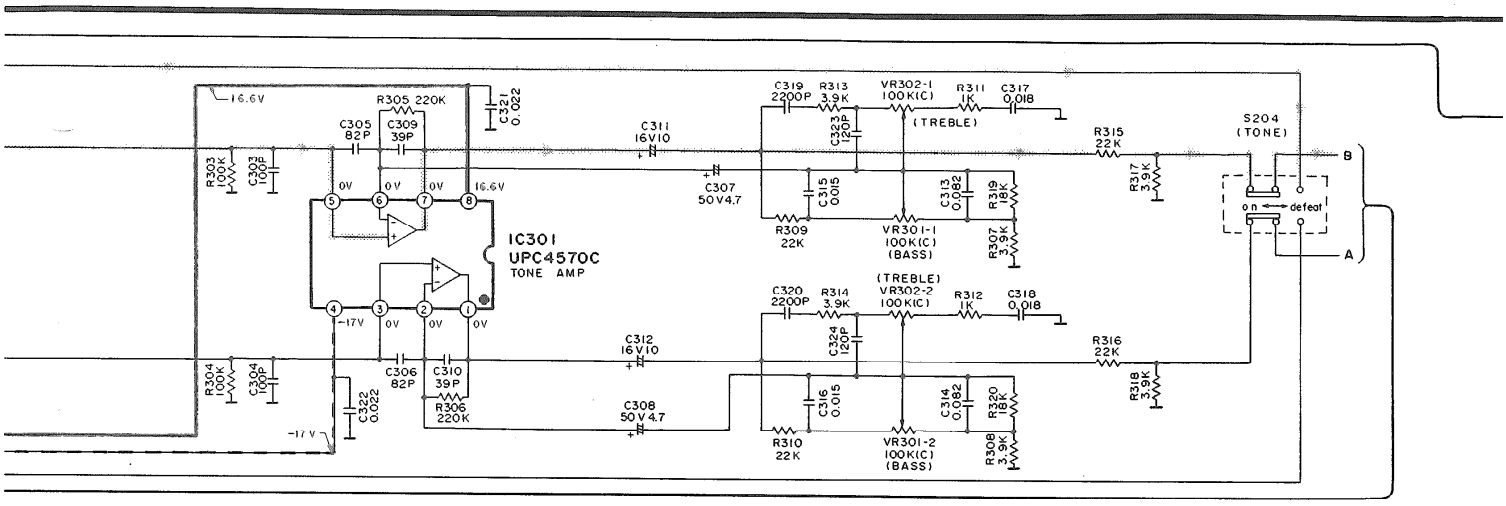
A MAIN CIRCUIT (P.C.Board:on page 10)

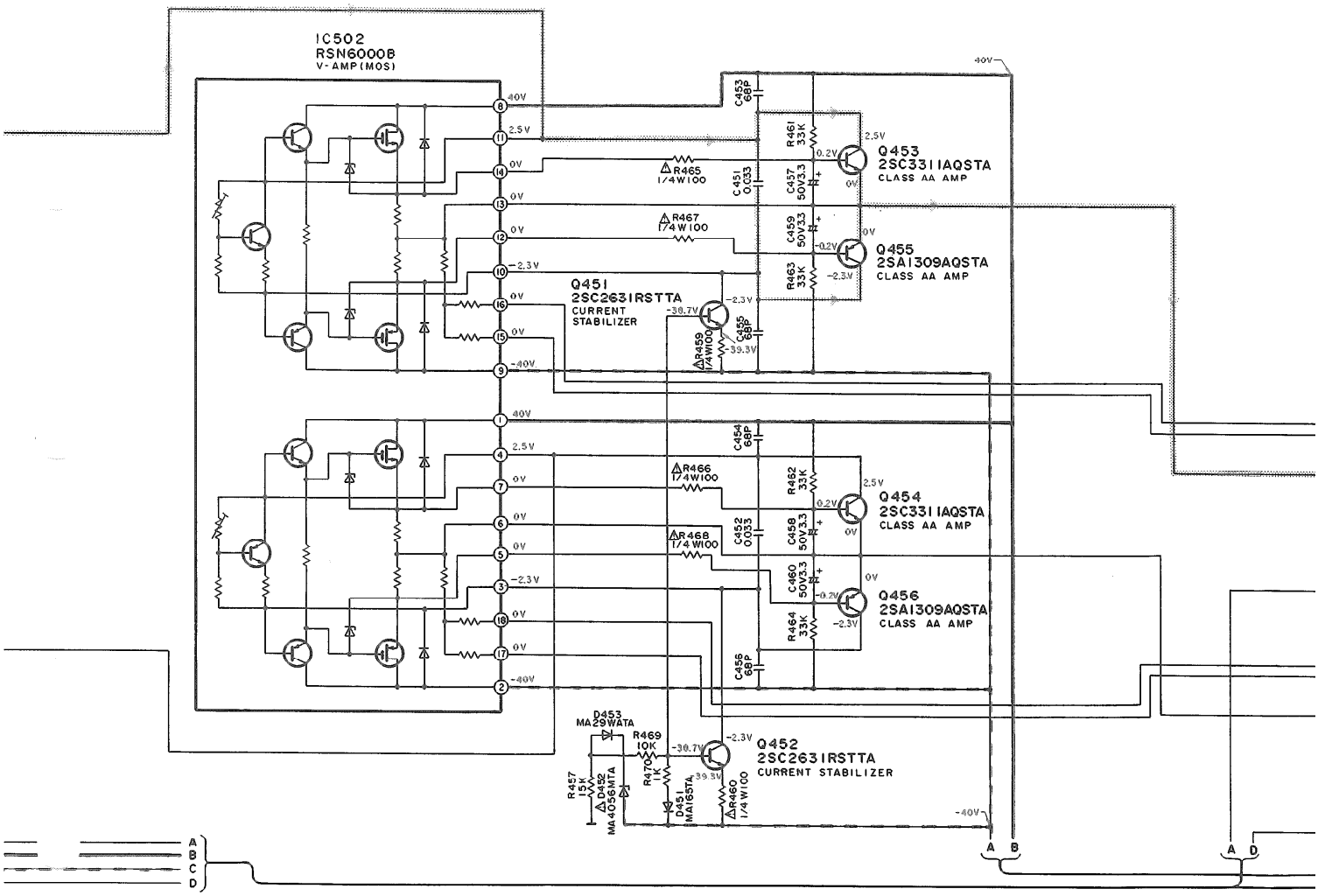


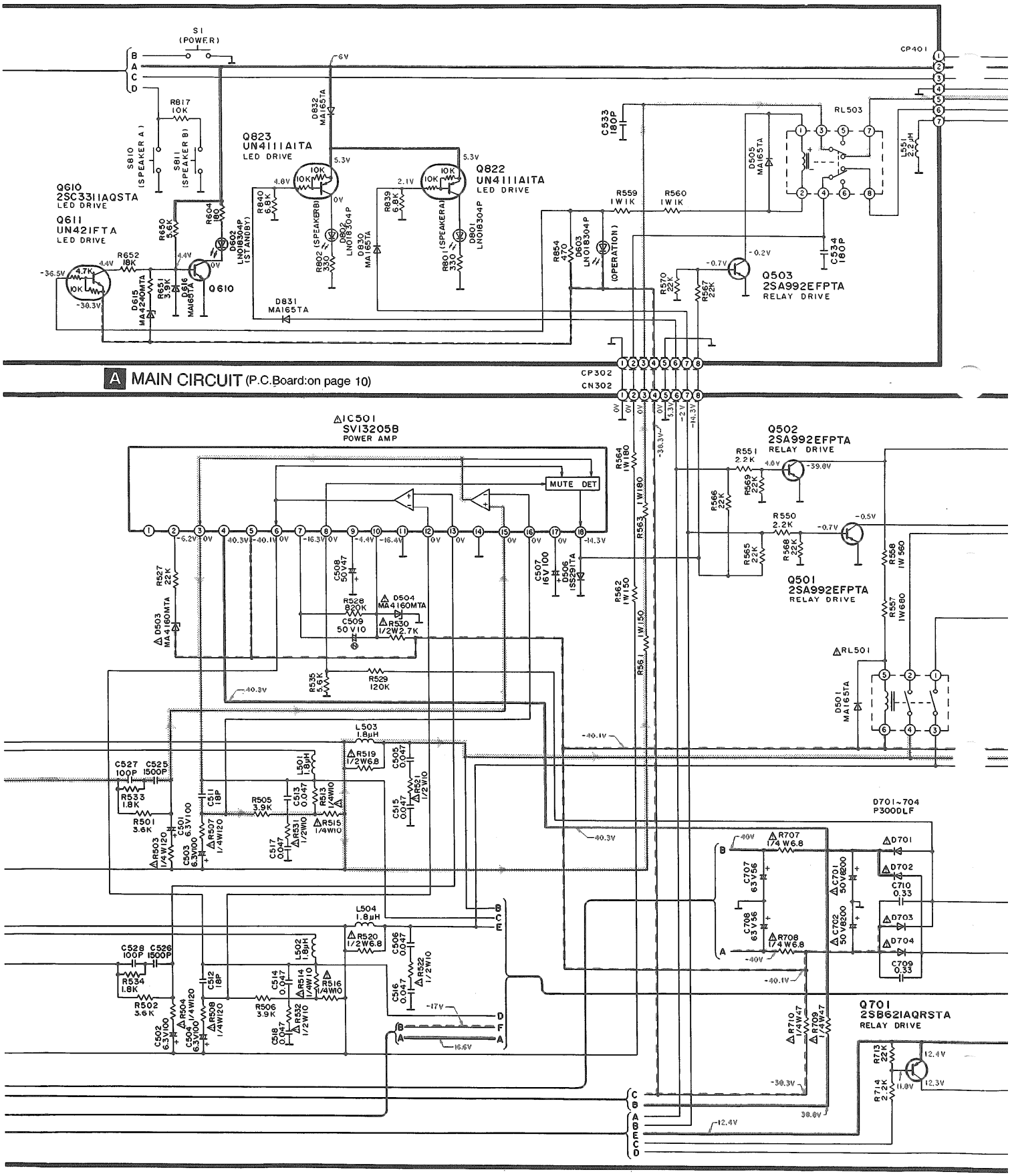
B OPERATION CIRCUIT (P.C.Board:on page 11)




C VOLUME CIRCUIT (P.C.Board:on page 12)
D TONE AMP CIRCUIT (P.C.Board:on page 12)
A MAIN CIRCUIT (P.C.Board:on page 10)
IC802
MN1381STA
RESET
Q818
2SD2037DEFTA
REGULATOR
Q817
2SC3311AQSTA
POWER ON DET.
Q816
UN4211AITA
POWER ON DET.
Q824,825
2SK301QRSTA
MUTING
Q826
2SA933QRSTA
MUTING CONT.
Q401
2SA1123RSTTA
PRE DRIVE
Q402
2SA1123RSTTA
PRE DRIVE
IC401
AN7062N
VOLTAGE AMP
VR201-1
100K(A)
VR201-2
100K(A)
(VOLUME)
VR202
100K(G)
(BALANCE)
CP201
CN201
CP202
CN202
CP301
CN301
CP801
CN801
ABCDE

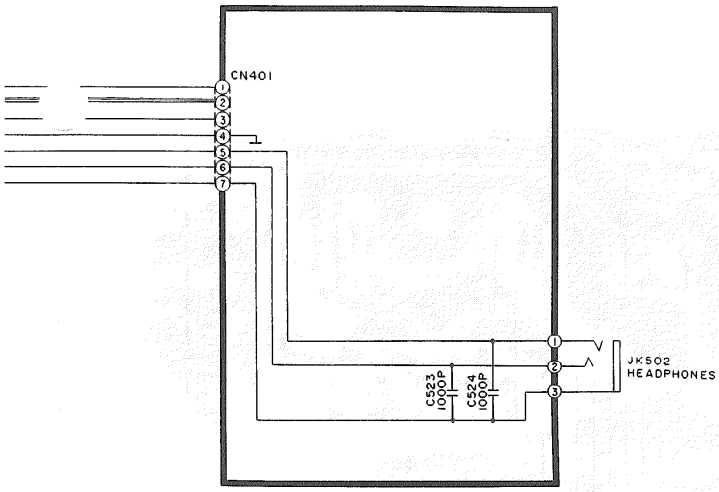

IC301
UPC4570C
TONE AMP
(TREBLE)
(BASS)
S204
(TONE)
on ↔ defeat

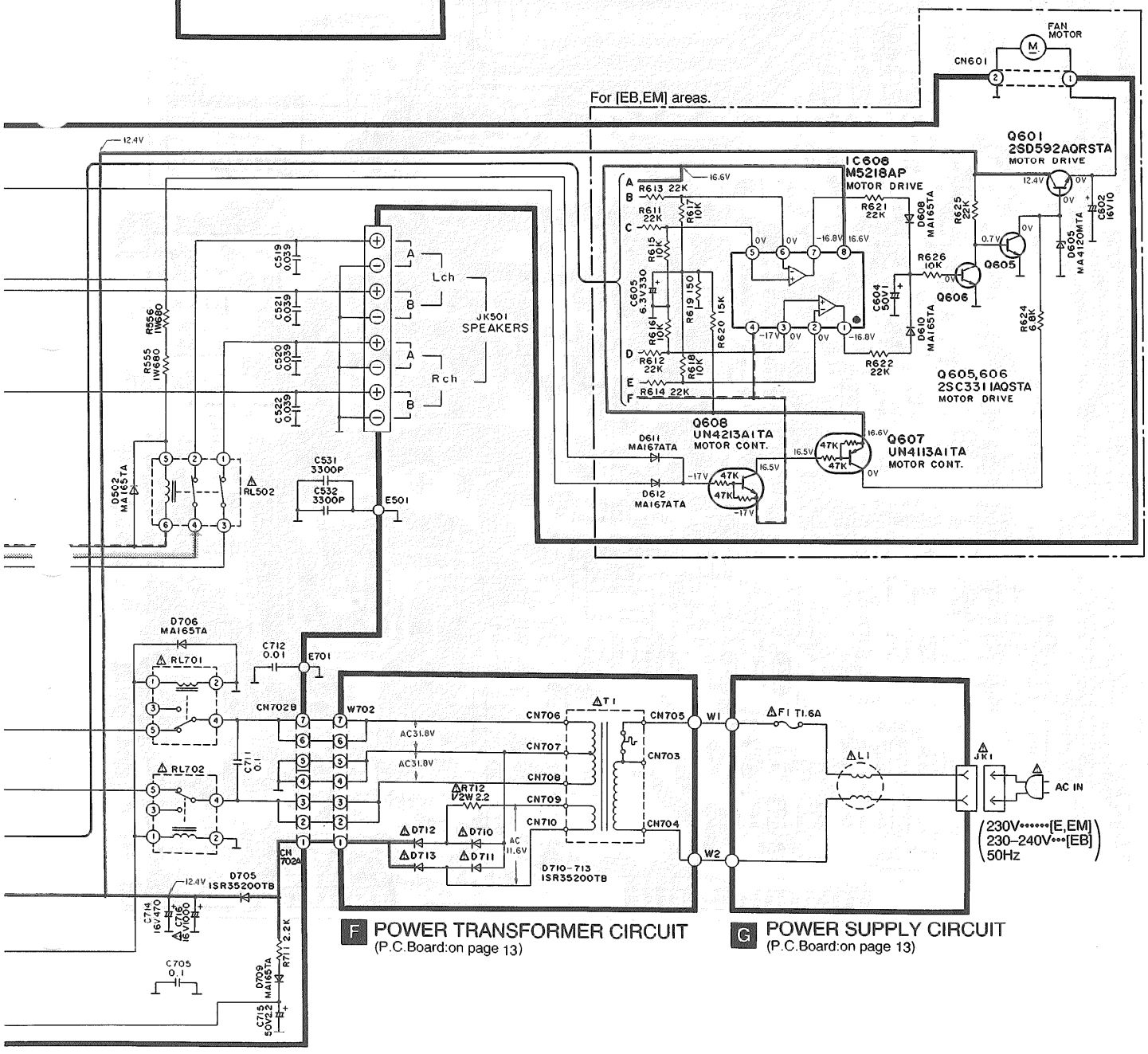

IC502
RSN6000B
V-AMP(MOS)
Q453
2SC3311AQSTA
CLASS AA AMP
Q455
2SA1309AQSTA
CLASS AA AMP
Q451
2SC2631RSTTA
CURRENT STABILIZER
Q454
2SC3311AQSTA
CLASS AA AMP
Q456
2SA1309AQSTA
CLASS AA AMP
Q452
2SC2631RSTTA
CURRENT STABILIZER
D453
MA29WATA
D451
MA165TA
D452
MA4056MTA



A MAIN CIRCUIT (P.C.Board:on page 10)

E HEADPHONES JACK CIRCUIT (P.C.Board:on page 11)



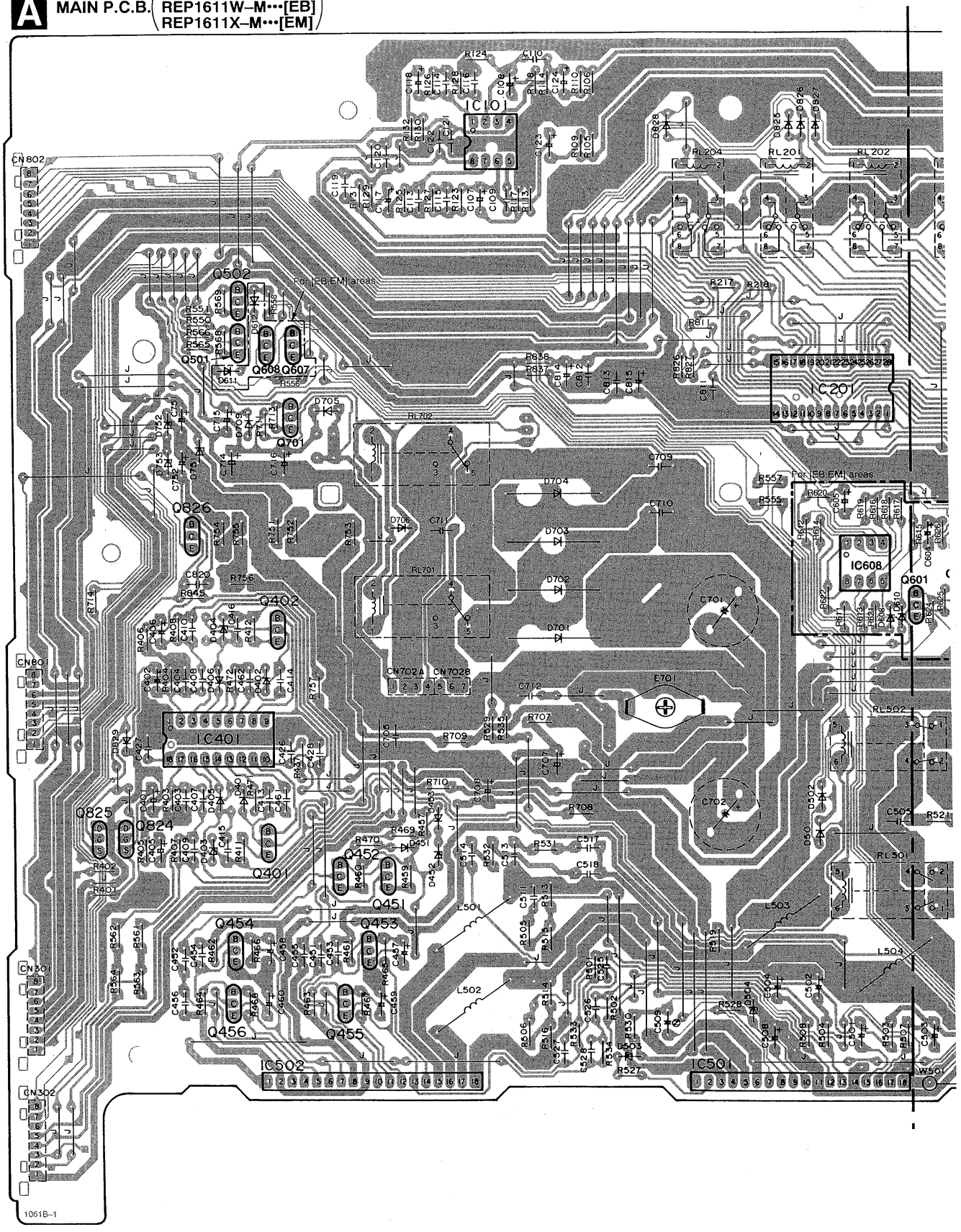


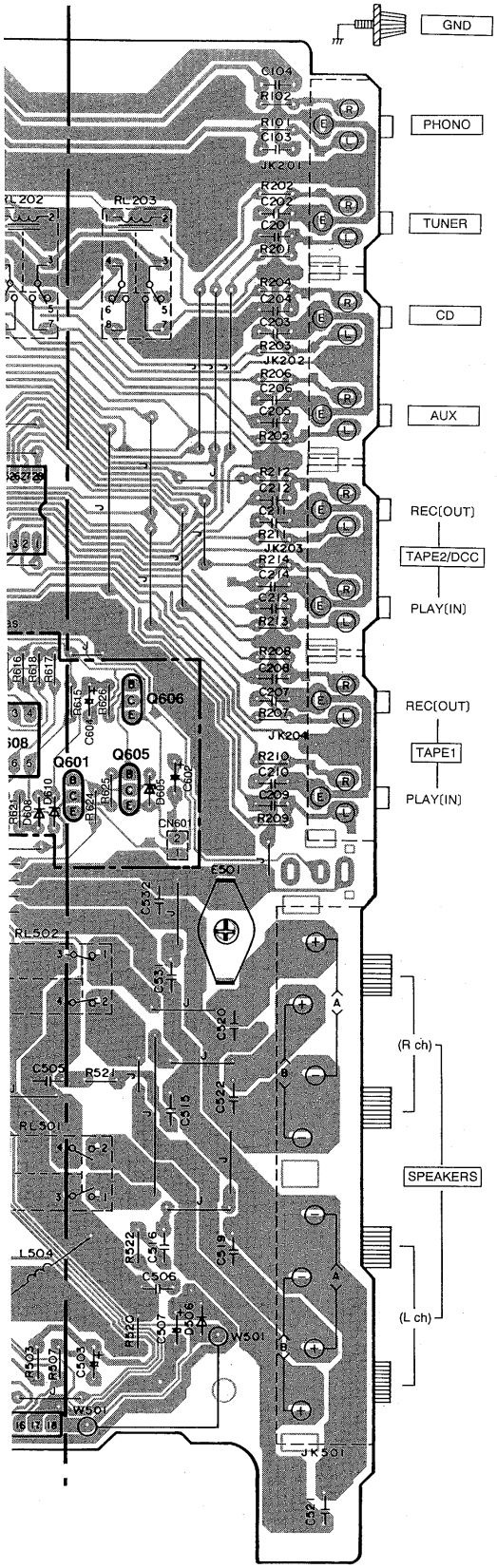
F POWER TRANSFORMER CIRCUIT (P.C.Board:on page 13)

G POWER SUPPLY CIRCUIT (P.C.Board:on page 13)

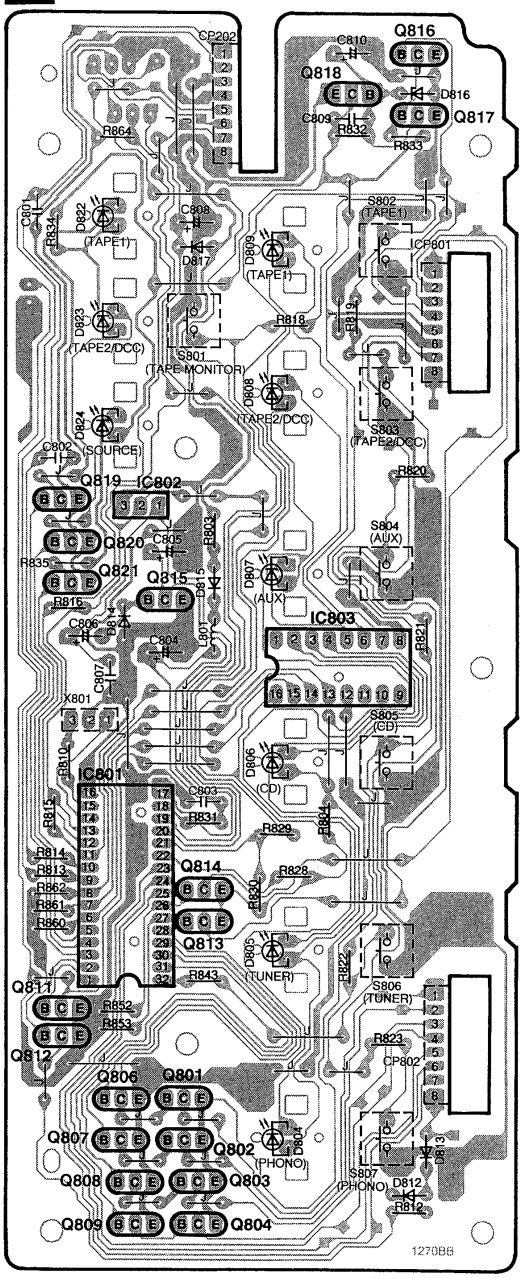
■ Printed Circuit Board Diagram

A MAIN P.C.B. (REP1611V–M···[E] REP1611W–M···[EB] REP1611X–M···[EM])

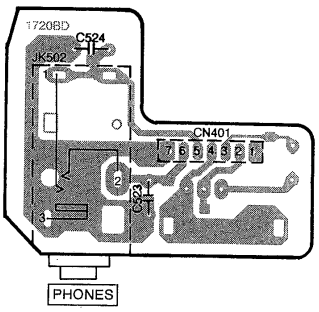




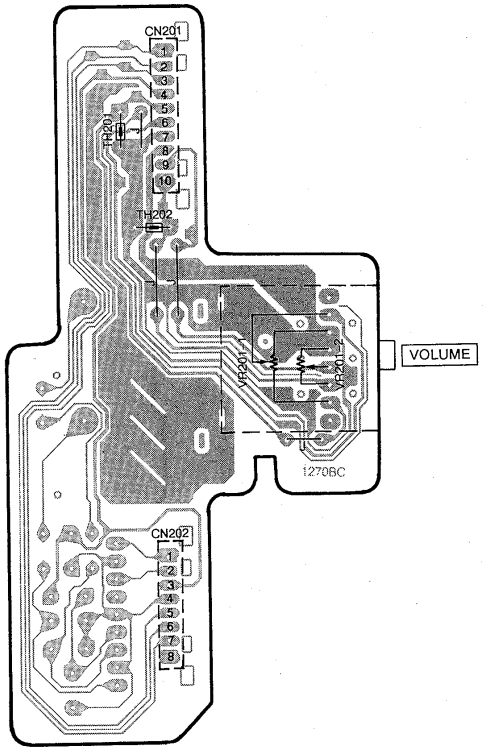
B OPERATION P.C.B. (REP1869E–S)



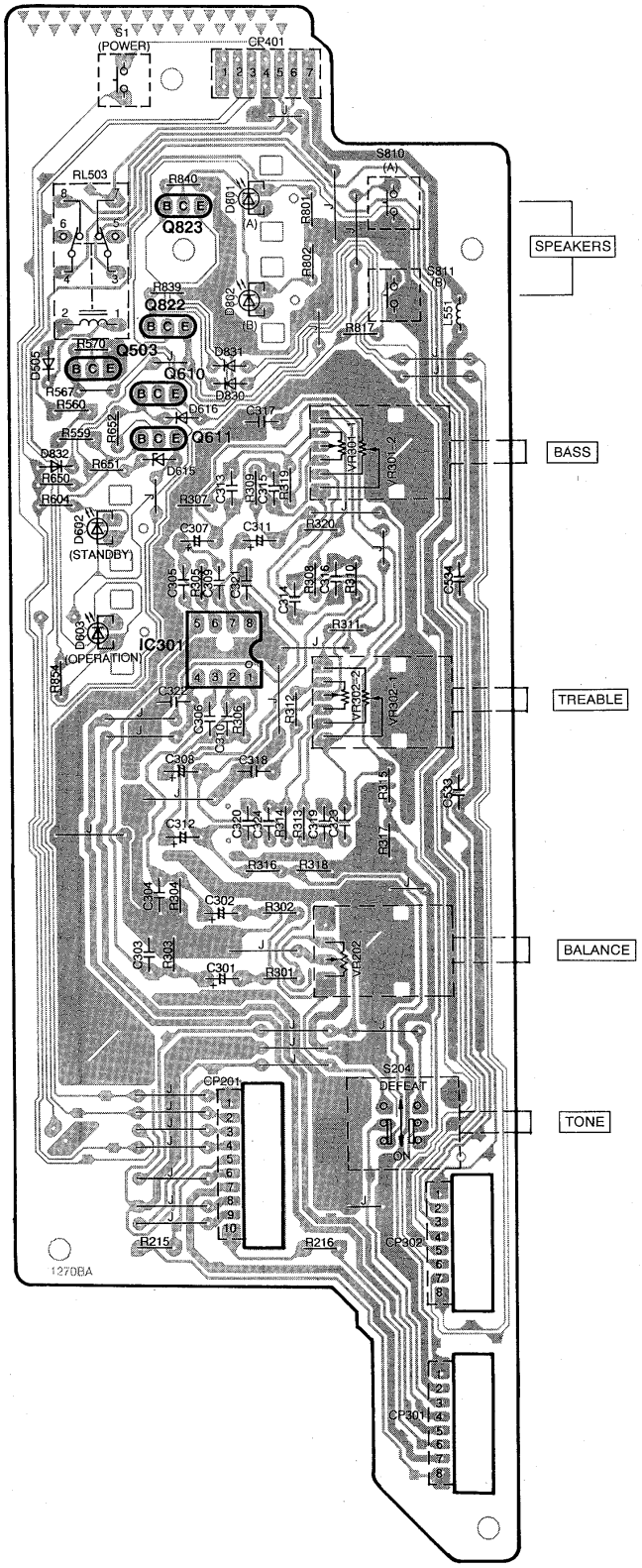
E HEADPHONES JACK P.C.B. (REP1869E–S)



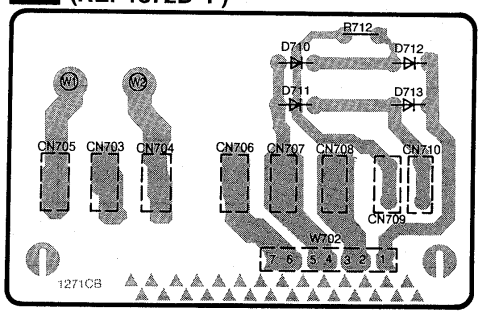
C VOLUME P.C.B. (REP1869E–S)



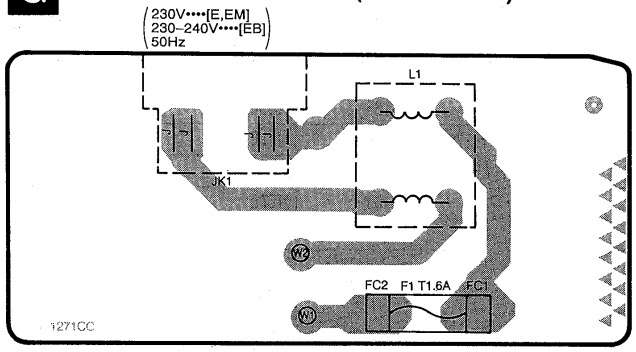
D TONE AMP P.C.B. (REP1869E–S)



F POWER TRANSFORMER P.C.B. (REP1872D–P)



G POWER SUPPLY P.C.B. (REP1872D–P)



■ Replacement Parts List

Notes: *Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.
*The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.
*The "(SF)" mark denotes the standard part.

Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)	
IC101	AN6558F	IC, PHONO EQ AMP.	
IC201	NJU7312AL	IC, INPUT SELECTOR	
IC301	UPC4570C	IC, TONE AMP.	
IC401	AN7062N	IC, VOLTAGE AMP.	
IC501	SVI3205B	IC, POWER AMP.	⚠
IC502	RSN6000A	IC, V. AMP. (MOS)	
IC608	M5218AP	IC, MOTOR DRIVE	(EB, EM)
IC801	M37470M2232S	IC, MICRO COMPUTER	
IC802	MN1381STA	IC, RESET	
IC803	TC74HC42AP	IC, LED DRIVE	
		TRANSISTOR(S)	
Q401, 402	2SA1123RSTTA	TRANSISTOR	
Q451, 452	2SC2631RSTTA	TRANSISTOR	
Q453, 454	2SC3311A-Q	TRANSISTOR	
Q455, 456	2SA1309A-R	TRANSISTOR	
Q501-503	2SA992EFPTA	TRANSISTOR	
Q601	2SD592AQRSTA	TRANSISTOR	(EB, EM)
Q605, 606	2SC3311AQSTA	TRANSISTOR	(EB, EM)
Q607	UN4113	TRANSISTOR	(EB, EM)
Q608	UN4213AITA	TRANSISTOR	(EB, EM)
Q610	2SC3311A-Q	TRANSISTOR	
Q611	UN421FTA	TRANSISTOR	
Q701	2SB621A-R	TRANSISTOR	
Q801-804	UN4111	TRANSISTOR	
Q806-809	UN4211	TRANSISTOR	
Q811, 812	UN4211	TRANSISTOR	
Q813, 814	UN4111	TRANSISTOR	
Q815, 816	UN4211	TRANSISTOR	
Q817	2SC3311A-Q	TRANSISTOR	
Q818	2SD2037DEFTA	TRANSISTOR	⚠
Q819-821	UN4211	TRANSISTOR	
Q822, 823	UN4111	TRANSISTOR	
Q824, 825	2SK301QRS	TRANSISTOR	
Q826	2SA933QRSTA	TRANSISTOR	
		DIODE(S)	
D401, 402	MA167	DIODE	
D403, 404	MA4036MTA	DIODE	
D405, 406	MA165	DIODE	
D451	MA165	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D452	MA4056MTA	DIODE	⚠
D453	MA29WA	DIODE	
D501, 502	MA165	DIODE	
D503, 504	MA4160M	DIODE	⚠
D505	MA165	DIODE	
D506	1SS291TA	DIODE	
D602, 603	LN018304P	L. E. D.	
D605	MA4120MTA	DIODE	(EB, EM)
D608	MA165	DIODE	(EB, EM)
D610	MA165	DIODE	(EB, EM)
D611, 612	MA167ATA	DIODE	(EB, EM)
D615	MA4240H	DIODE	
D616	MA165	DIODE	
D701-704	P300DLF	DIODE	⚠
D705	1SR35200TB	DIODE	
D706	MA165	DIODE	
D709	MA165	DIODE	
D710-713	1SR35200TB	DIODE	⚠
D751	MA4160M	DIODE	⚠
D752, 753	MA4082MTA	DIODE	⚠
D801, 802	LN018304P	L. E. D.	
D804-809	LN018304P	L. E. D.	
D812-814	MA165	DIODE	
D815	1SS291TA	DIODE	
D816	MA4068L	DIODE	⚠
D817	MA165	DIODE	
D822, 823	LN014304P	L. E. D.	
D824	LN018304P	L. E. D.	
D825-828	MA165	DIODE	
D829	MA700	DIODE	
D830-832	MA165	DIODE	
		VARIABLE RESISTOR(S)	
VR201	EUWM3RF20A15	V. R, MAIN VOLUME	
VR202	EVJ02QF04G15	V. R, BALANCE	
VR301	EVJYA1F04C15	V. R, BASS	
VR302	EVJYA1F04C15	V. R, TREBLE	
		THERMISTOR(S)	
TH201, 202	ERTD2ZHL104T	THERMISTOR	
		COIL(S)	
L1	RLQZ271M	COIL	⚠

Ref. No.	Part No.	Part Name & Description	Remarks
L501-504	SLQY18G-10	COIL	
L551	ELEPK2R2MA	COIL	
L801	ELEXT101KA9	COIL	
		TRANSFORMER(S)	
T1	RTP7K5E008-W	POWER TRANSFORMER	⚠(E, EM)
T1	RTP7K5B004-W	POWER TRANSFORMER	⚠(EB)
		OSCILLATOR(S)	
X801	EF0GC4004A4	OSCILLATOR(4 MHz)	
		FUSE(S)	
F1	XBA2C16TB0	FUSE, 250V T1.6A	⚠
		SWITCH(ES)	
S1	EVQ21405R	SW, POWER	
S204	ESB68046	SW, TONE CONTROL	
S801	EVQ21405R	SW, TAPE MONITOR	
S802	EVQ21405R	SW, TAPE 1	
S803	EVQ21405R	SW, TAPE 2/DCC	
S804	EVQ21405R	SW, AUX	
S805	EVQ21405R	SW, CD	
S806	EVQ21405R	SW, TUNER	
S807	EVQ21405R	SW, PHONO	
S810	EVQ21405R	SW, SPEAKER A	
S811	EVQ21405R	SW, SPEAKER B	
		CONNECTOR(S)	
CN201	RJU003K010M1	SOCKET(10P)	
CN202	RJU003K008M1	SOCKET(8P)	
CN301, 302	RJU003K008M1	SOCKET(8P)	
CN401	RJU057W007	SOCKET(7P)	
CN601	SJT3213	CONNECTOR(2P)	(EB, EM)
CN702A	RJS1A6604	CONNECTOR(4P)	
CN702B	RJS1A6603	CONNECTOR(3P)	
CN703-710	RJS1A1101T1	CONNECTOR(1P)	
CN801, 802	RJU003K008M1	SOCKET(8P)	
CP201	RJT003K010-1	CONNECTOR(10P)	
CP202	RJT003K008-1	CONNECTOR(8P)	
CP301, 302	RJT003K008-1	CONNECTOR(8P)	
CP401	RJT057W007-1	CONNECTOR(7P)	
CP801, 802	RJT003K008-1	CONNECTOR(8P)	
		EARTH TERMINAL	
E501	SNE1004-2	GND PLATE	
E701	SNE1004-2	GND PLATE	

Ref. No.	Part No.	Part Name & Description	Remarks
		FUSE HOLDER(S)	
FC1, 2	EYF52BC	FUSE HOLDER	
		RELAY(S)	
RL201-204	RSY0020M-R	RELAY	
RL501, 502	RSY0013M-0	RELAY	⚠
RL503	RSY0020M-R	RELAY	
RL701, 702	RSY0019-0	RELAY	⚠
		JACK(S)	
JK1	SJS9236	AC INLET	⚠
JK201	SJF3069N	INPUT TERMINAL (PHONO/TUNER)	
JK202	SJF3069N	INPUT TERMINAL (CD/AUX)	
JK203	SJF3069N	IN/OUT PUT (TAPE 2/DCC)	
JK204	SJF3069N	IN/OUT PUT (TAPE 1)	
JK501	RJH4801M-1	SPEAKER TERMINAL	(E, EM)
JK501	RJH4801M-2	SPEAKER TERMINAL	(EB)
JK502	RJJ63TA01	HEADPHONES JACK	

■ Resistors and Capacitors

Notes : * Capacity values are in microfarads (uF) unless specified otherwise, P=Pico-farads(pF) F=Farads(F)
* Resistance values are in ohms, unless specified otherwise, 1K=1,000(OHM) , 1M=1,000k(OHM)

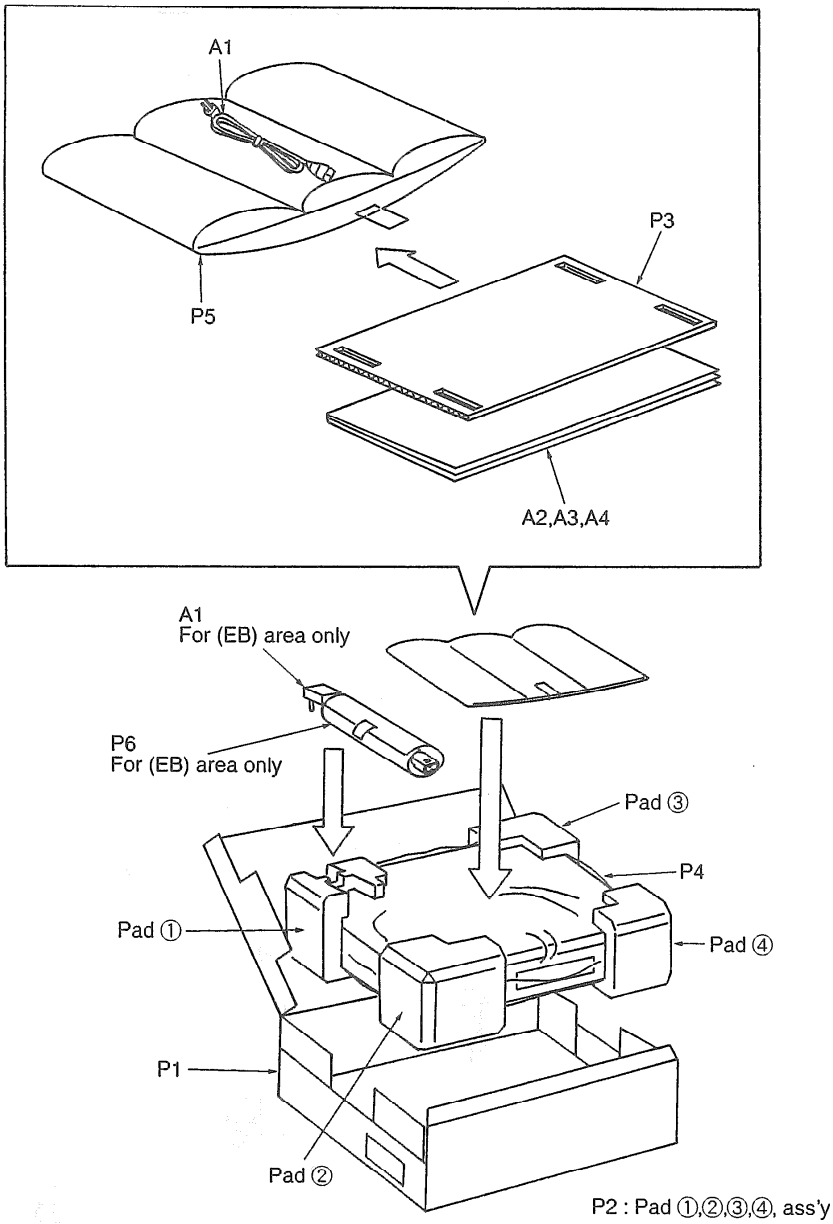
Ref. No.	Part No.	Values & Remarks
		RESISTORS
R101, 102	ERDS2TJ102	1/4W 1K
R105, 106	ERDS2TJ224T	1/4W 220K
R109, 110	ERDS2TJ101	1/4W 100
R113, 114	ERDS2TJ563	1/4W 56K
R117, 118	ERDS2TJ271	1/4W 270
R123, 124	ERDS2TJ680T	1/4W 68
R125, 126	ERDS2TJ184T	1/4W 180K
R127, 128	ERDS2TJ123	1/4W 12K
R129, 130	ERDS2TJ563	1/4W 56K
R131, 132	ERDS2TJ102	1/4W 1K
R201-206	ERDAS3G102T	1/4W 1K
R207, 208	ERDS2TJ102	1/4W 1K
R209, 210	ERDAS3G102T	1/4W 1K
R211, 212	ERDS2TJ102	1/4W 1K
R213, 214	ERDAS3G102T	1/4W 1K
R215, 216	ERDLS2VJ332T	1/4W 3.3K
R217, 218	ERDS2TJ334	1/4W 330K
R301, 302	ERDAS3G561	1/4W 560
R303, 304	ERDS2TJ104	1/4W 100K
R305, 306	ERDS2TJ224T	1/4W 220K
R307, 308	ERDS2TJ392T	1/4W 3.9K
R309, 310	ERDS2TJ223	1/4W 22K
R311, 312	ERDS2TJ102	1/4W 1K
R313, 314	ERDS2TJ392T	1/4W 3.9K
R315, 316	ERDS2TJ223	1/4W 22K
R317, 318	ERDS2TJ392T	1/4W 3.9K
R319, 320	ERDS2TJ183T	1/4W 18K
R401, 402	ERDAS3G122	1/4W 1.2K
R403, 404	ERDAS3G154T	1/4W 150K
R405, 406	ERDAS3G102T	1/4W 1K
R407, 408	ERDAS3G154T	1/4W 150K
R411, 412⚠	ERDAF2VJ470T	1/4W 47
R437	ERDS2TJ473	1/4W 47K
R457	ERDAS3G153T	1/4W 15K
R459, 460⚠	ERDAF2VJ101T	1/4W 100
R461-464	ERDS2TJ333	1/4W 33K
R465-468⚠	ERDAF2VJ101T	1/4W 100
R469	ERDAS3G103T	1/4W 10K
R470	ERDAS3G102T	1/4W 1K
R471, 472	ERDAS3G272T	1/4W 2.7K
R501, 502	ERDS2TJ362T	1/4W 3.6K
R503, 504⚠	ERDAF2VJ121T	1/4W 120
R505, 506	ERDS2TJ392T	1/4W 3.9K
R507, 508⚠	ERDAF2VJ121T	1/4W 120
R513-516⚠	ERDAF2VJ100T	1/4W 10
R519, 520⚠	ERDS1FVJ6R8T	1/2W 6.8

Ref. No.	Part No.	Values & Remarks
R521, 522⚠	ERDS1FVJ100T	1/2W 10
R527	ERDS2TJ223	1/4W 22K
R528	ERDS2TJ824	1/4W 820K
R529	ERDS2TJ124T	1/4W 120K
R530⚠	ERDS1FVJ272T	1/2W 2.7K
R531, 532⚠	ERDS1FVJ100T	1/2W 10
R533, 534	ERDS2TJ182	1/4W 1.8K
R535	ERDS2TJ562	1/4W 5.6K
R550, 551	ERDS2TJ222	1/4W 2.2K
R555-558	ERG1SJ681E	1W 680
R559, 560	ERG1SJ102E	1W 1K
R561, 562	ERG1SJ151E	1W 150
R563, 564	ERG1SJ181E	1W 180
R565-570	ERDS2TJ223	1/4W 22K
R604	ERDS2TJ181T	1/4W 180
R611-614	ERDS2TJ223T	1/4W 22K (EB, EM)
R615-618	ERDS2TJ103T	1/4W 10K (EB, EM)
R619	ERDS2TJ151T	1/4W 150 (EB, EM)
R620	ERDS2TJ153T	1/4W 15K (EB, EM)
R621, 622	ERDS2TJ223T	1/4W 22K (EB, EM)
R624	ERDS2TJ682T	1/4W 6.8K (EB, EM)
R625	ERDS2TJ223T	1/4W 22K (EB, EM)
R626	ERDS2TJ103T	1/4W 10K (EB, EM)
R650	ERDS2TJ562	1/4W 5.6K
R651	ERDS2TJ392T	1/4W 3.9K
R652	ERDS2TJ183T	1/4W 18K
R707, 708⚠	ERDAF2VJ6R8T	1/4W 6.8
R709, 710⚠	ERDAF2VJ470T	1/4W 47
R711	ERDS2TJ222	1/4W 2.2K
R712⚠	ERDS1FVJ2R2T	1/2W 2.2
R713	ERDS2TJ223	1/4W 22K
R714	ERDS2TJ222	1/4W 2.2K
R751-753⚠	ERDS1FVJ391T	1/2W 390
R754-756⚠	ERDS1FVJ221T	1/2W 220
R757⚠	ERDS1FVJ181T	1/2W 180
R801, 802	ERDS2TJ331	1/4W 330
R803	ERDS2TJ390	1/4W 39
R804	ERDS2TJ331	1/4W 330
R810	ERDS2TJ102	1/4W 1K
R811	ERDS2TJ103	1/4W 10K
R812	ERDS2TJ102	1/4W 1K
R813-817	ERDS2TJ103	1/4W 10K
R818	ERDS2TJ821	1/4W 820
R819	ERDS2TJ102	1/4W 1K
R820	ERDS2TJ122	1/4W 1.2K
R821	ERDS2TJ152	1/4W 1.5K
R822	ERDS2TJ182	1/4W 1.8K
R823	ERDS2TJ222	1/4W 2.2K
R826, 827	ERDS2TJ103	1/4W 10K

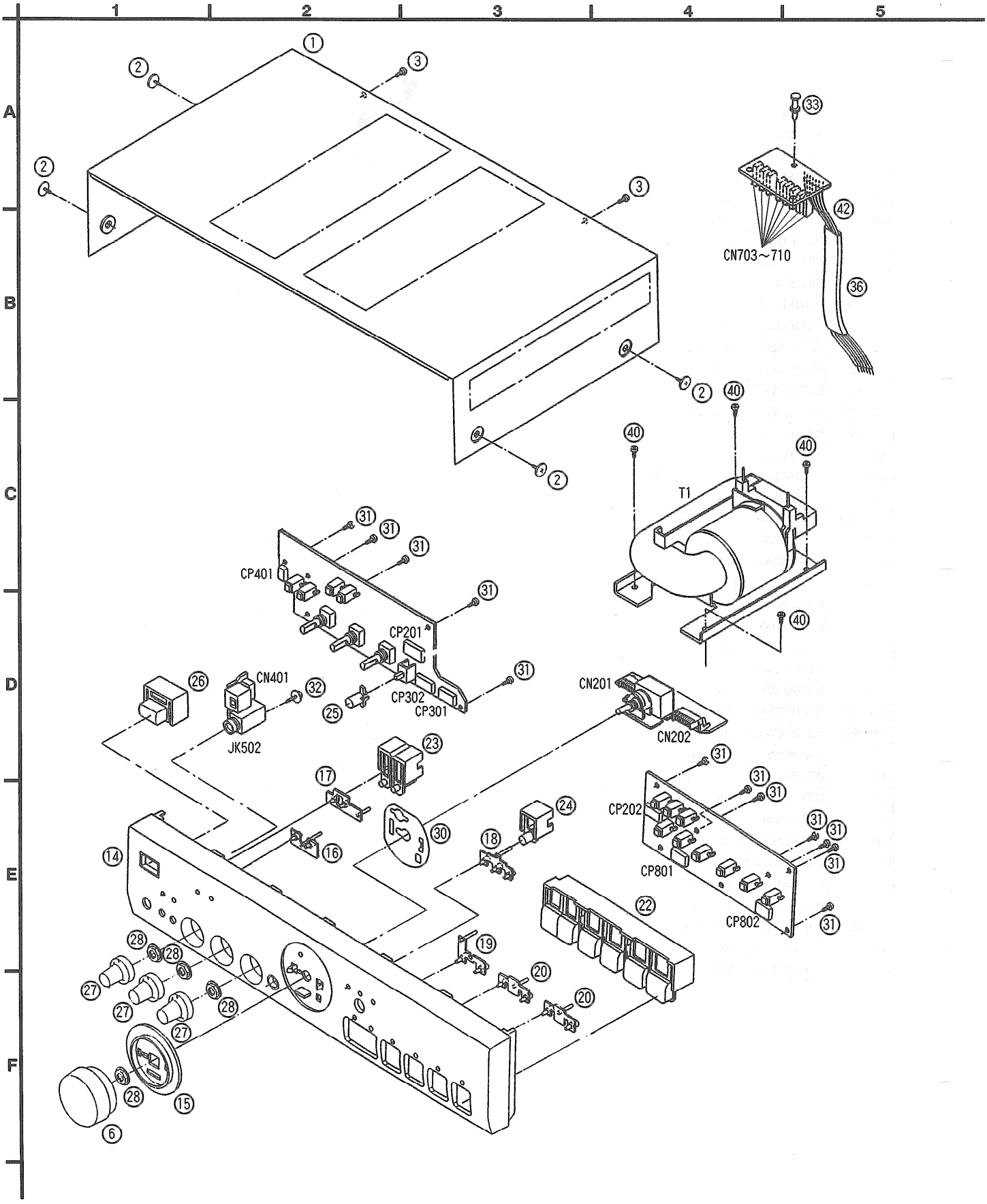
Ref. No.	Part No.	Values & Remarks
R828, 829	ERDS2TJ102	1/4W 1K
R830	ERDS2TJ223	1/4W 22K
R831	ERDS2TJ104	1/4W 100K
R832	ERDS2TJ331	1/4W 330
R833	ERDS2TJ103	1/4W 10K
R834	ERDS2TJ561	1/4W 560
R835	ERDS2TJ102	1/4W 1K
R837, 838	ERDS2TJ102	1/4W 1K
R839, 840	ERDS2TJ682T	1/4W 6.8K
R843	ERDS2TJ103	1/4W 10K
R845	ERDS2TJ334	1/4W 330K
R852, 853	ERDS2TJ103	1/4W 10K
R854	ERDS2TJ471	1/4W 470
R860-862	ERDS2TJ104	1/4W 100K
R864	ERDS2TJ223	1/4W 22K
		CAPACITORS
C103, 104	ECBT1H181KB5	50V 180P
C107, 108	ECEA1CKA101B	16V 100U
C109, 110	ECBT1H391KB5	50V 390P
C113, 114	ECQB1H223JF3	50V 0.022U
C115, 116	ECQB1H562JF3	50V 5600P
C117, 118	ECEA1HKA4R7B	50V 4.7U
C119, 120	ECQB1H472JF3	50V 4700P
C121, 122	ECBT1C103NS5	16V 0.01U
C123, 124	RCE1HKA3R3BG	50V 3.3U
C201-214	ECKT1H101KB	50V 100P
C301, 302	ECA1HPXS3R3B	50V 3.3U
C303, 304	ECCR1H101K5	50V 100P
C305, 306	ECBT1H820KB5	50V 82P
C307, 308	ECA1HPXS4R7B	50V 4.7U
C309, 310	ECBT1H390J5	50V 39P
C311, 312	ECA1CPXS100B	16V 10U
C313, 314	ECQV1H823JM3	50V 0.082U
C315, 316	ECQB1H153JF3	50V 0.015U
C317, 318	ECQB1H183JF3	50V 0.018U
C319, 320	ECQB1H222JF3	50V 2200P
C321, 322	ECBT1E223ZF	25V 0.022U
C323, 324	ECBT1H121KB5	50V 120P
C401, 402	ECA1HBX3R3B	50V 3.3U
C403, 404	ECCR1H271K5	50V 270P
C405, 406	ECA1EPXS101B	25V 100U
C407, 408	ECBT1H820KB5	50V 82P
C409, 410	ECCR2H100K5	500V 10P
C413, 414	ECCR2H220J5	500V 22P
C415, 416	ECKR1H331KB5	50V 330P
C426	ECBT1H102KB5	50V 1000P
C427	ECBT1E223ZF	25V 0.022U

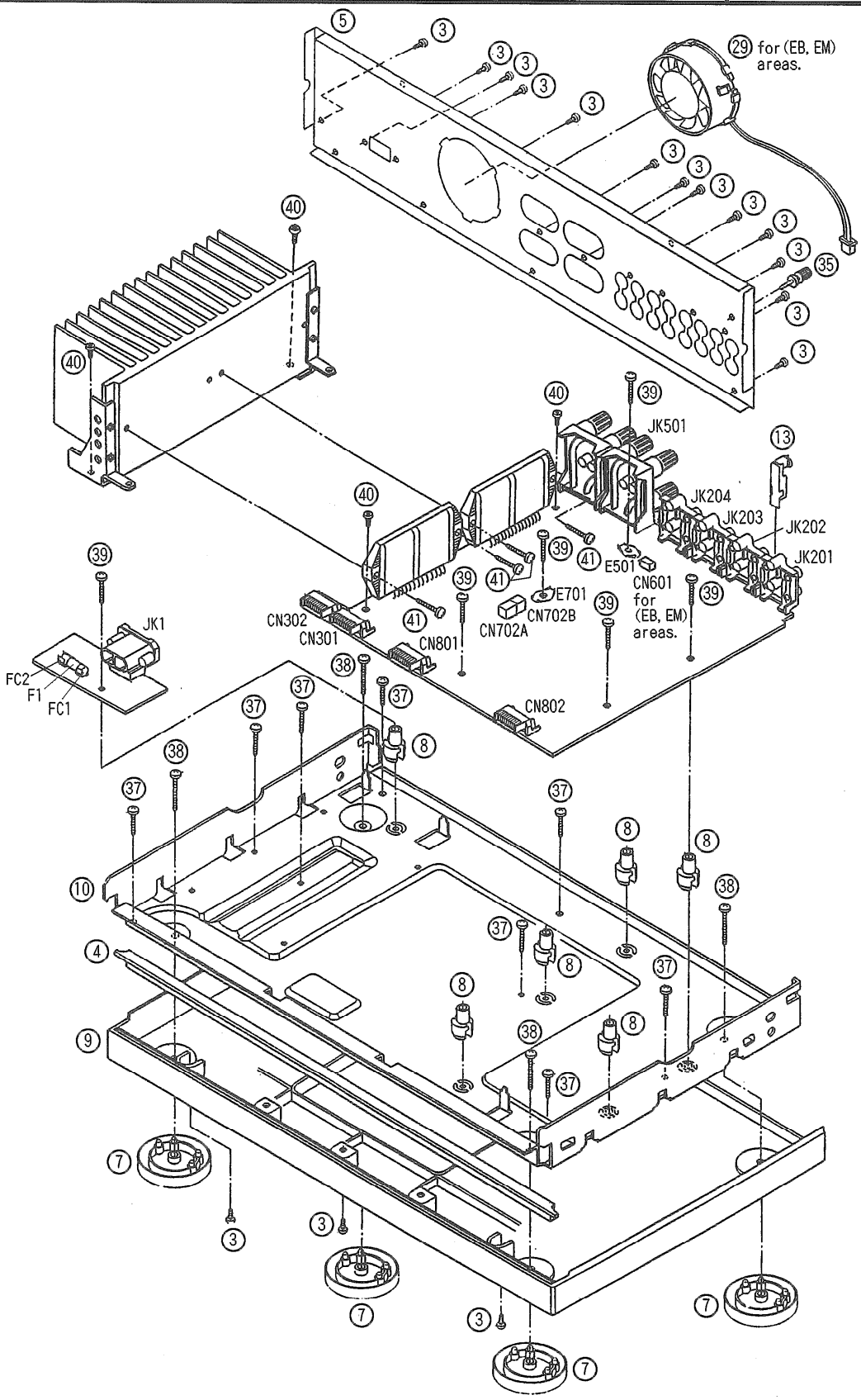
■ Packaging

Ref. No.	Part No.	Values & Remarks
C428	ECHR1H103JZ3	50V 0.01U
C451, 452	ECKR1H333ZF5	50V 0.033U
C453-456	ECCV2H680K	500V 68P
C457-460	RCE1HKA3R3BG	50V 3.3U
C461, 462	ECQB1H122JF3	50V 1200P
C501-504	ECA0JPXS101B	6.3V 100U
C505, 506	ECQV1H473JM3	50V 0.047U
C507	ECEA1CKA101B	16V 100U
C508	ECA1HM470B	50V 47U
C509	ECEA1HN100SB	50V 10U
C511, 512	ECBT1H180J5	50V 18P
C513-518	ECQV1H473JM3	50V 0.047U
C519-522	ECQB1H393JF3	50V 0.039U
C523, 524	ECBT1H102KB5	50V 1000P
C525, 526	ECBT1C152JR5	16V 1500P
C527, 528	ECBT1H101KB5	50V 100P
C531, 532	ECBT1C332KR5	16V 3300P
C533, 534	ECBT1H181KB5	50V 180P
C602	RCE1CKA100BG	16V 10U (EB, EM)
C604	ECEA1HKA010B	50V 1U (EB, EM)
C605	ECEA0JKA331B	6.3V 330U (EB, EM)
C701, 702⚠	ECESX1H822UM	50V 8200U
C705	ECQV1H104JM3	50V 0.1U
C707, 708	ECA1JPXH560E	63V 56U
C709, 710	ECQE2334KF3	250V 0.33U
C711	ECQE2104KF3	250V 0.1U
C712	ECBT1C103NS5	16V 0.01U
C714	ECA1CM471B	16V 470U
C715	ECEA1HKA2R2B	50V 2.2U
C716⚠	RCE1CM102BV	16V 1000U
C751, 752	ECA1EPX470TB	25V 47U
C801-803	ECBT1C103NS5	16V 0.01U
C804	ECA0JM102B	6.3V 1000U
C805	RCE1HKAR47BG	50V 0.47U
C806	ECEA1HKA2R2B	50V 2.2U
C807	ECBT1H102KB5	50V 1000P
C808	ECEA0JKA101B	6.3V 100U
C809	ECBT1C103NS5	16V 0.01U
C810	RCE1AKA470BG	10V 47U
C811	ECBT1H101KB5	50V 100P
C812, 813	ECKR1H103ZF5	50V 0.01U
C814, 815	ECA1HPXS4R7B	50V 4.7U
C820	ECQV1H224JM3	50V 0.22U



■ Cabinet Parts Location




(29) for (EB, EM) areas.
JK501
JK204
JK203
JK202
JK201
E501
E701
CN601 for (EB, EM) areas.
CN702B
CN702A
CN302
CN301
CN801
CN802
JK1
FC2
F1
FC1

■ Replacement Parts List

Note: The reference number SA represent the grease and tool used for this unit.

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS	
1	RKM0114A-K	TOP CABINET	(E)
1	RKM0114B-K	TOP CABINET	(EB, EM)
2	RHD30035-K1	SCREW	
3	XTBS3+8JFZ1	SCREW	
4	RGK0550-T	ORNAMENT	
5	RGR0170D-FB	REAR PANEL	(E)
5	RGR0170E-CB	REAR PANEL	(EB)
5	RGR0170J-CB	REAR PANEL	(EM)
6	RGW0202-K	KNOB, VOLUME	
7	RKA0053-A	FOOT	
8	RKQ0089	P. C. B. SUPPORT	
9	RKU0049-K	BOTTOM BASE	
10	RMK0202-2	BOTTOM CHASSIS	
13	RSC0105-2	SHIELD PLATE	
14	RFKGUA600MK3	FRONT PANEL ASS'Y	
15	RGK0549-S1	ORNAMENT RING	
16	RGL0184-Q1	PANEL LIGHT A	
17	RGL0185-Q	PANEL LIGHT B	
18	RGL0186-Q	PANEL LIGHT C	
19	RGL0187-Q	PANEL LIGHT D	
20	RGL0188-Q	PANEL LIGHT E	
22	RGU0886A-K	BUTTON, SELECTOR	
23	RGU0887-K	BUTTON, SPEAKER	
24	RGU0888-K	BUTTON, TAPE MONITOR	
25	RGU0889-K	BUTTON, TONE	
26	RGU1042-K	BUTTON, POWER	
27	RGW0177A-K	KNOB, TONE	
28	RHN90001	NUT	
29	REM0040	FAN	(EB, EM)
30	RSC0323	SHIELD PLATE	
31	XTBS26+8J	SCREW	
32	XTWS3+10T	SCREW	
33	SHR8006	RIVET	
35	SNE2123	GND SCREW	
36	RWZ120UNW240	PROTECTION TUBE	
37	XTB3+10G	SCREW	
38	XTB3+16CFN	SCREW	
39	XTB3+20JFZ	SCREW	
40	XTB3+8JFZ	SCREW	
41	XTW3+15T	SCREW	
42	RWJ3907290QQ	FLAT CABLE(7P) (W702)	

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPG3044	PACKING CASE	
P2	RPN0684-2	PAD	
P3	RPQ0164	ACCESSORY PAD	
P4	SPP756	PROTECTION COVER	
P5	RPF0139	PROTECTION COVER	
P6	RPH0032	PROTECTION SHEET	(EB)
		ACCESSORIES	
A1	RJA0019-2K	AC POWER SUPPLY CORD	⚠(SF) (E, EM)
A1	RJA0049-K	AC POWER SUPPLY CORD	⚠(EB)
A2	RQA0117	WARRANTY CARD	
A3	RQCB0169	SERVICE CENTER LIST	
A4	RFKSA600MK3E	INSTRUCTION MANUAL ASS'Y	(E, EM)
A4	RQT3524-B	INSTRUCTION MANUAL	(EB)
		GREASE OR JIG/TOOL	
SA1	RFKX0002	COMPOUND GREASE	

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