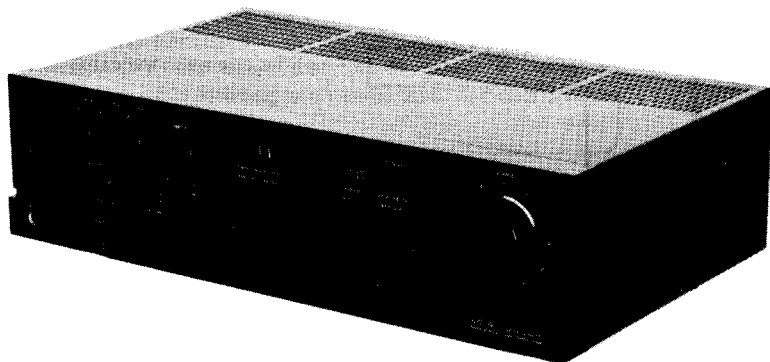


Service Manual

Stereo Integrated Amplifier

Amplifier
SU-V55A

**Color**

(S)Silver Type
(K)Black Type

Area

Color	Area
(S)(K)	(E)Continental Europe.
(S)(K)	(Ei)Italy.
(S)(K)	(EG)F.R.Germany.
(S)(K)	(EB)Belgium.
(S)(K)	(EK)United Kingdom.
(S)(K)	(EF)France.
(S)(K)	(EH)Holland.
(S)(K)	(XL)Australia.
(S)(K)	(XA)Asia, Latin America, Middle Near East, Africa and Oceania.

SPECIFICATIONS

(DIN 45 500)

■ AMPLIFIER SECTION

20 Hz ~ 20 kHz continuous power output both channels driven	2 x 60 W (8Ω)
1 kHz continuous power output both channels driven	2 x 100 W (4Ω)
Total harmonic distortion rated power at 20 Hz ~ 20 kHz	0.002% (8Ω)
rated power at 1 kHz	0.005% (4Ω)
	0.0009% (8Ω)
half power at 20 Hz ~ 20 kHz	0.002% (8Ω)
half power at 1 kHz	0.002% (4Ω)
	0.0008% (8Ω)
Intermodulation distortion rated power at 250 Hz:8 kHz = 4:1, 8Ω	0.005%
rated power at 60 Hz:7 kHz = 4:1, SMPTE, 8Ω	0.005%
Power bandwidth both channels driven, -3dB	5 Hz ~ 60 kHz (8Ω, 0.03%)
Residual hum and noise	0.8 mV
Damping factor	30 (4Ω), 60 (8Ω)
Input sensitivity and impedance PHONO MM	2.5mV/47 kΩ
PHONO MC	170 μV/220 Ω
TUNER, CD, AUX, TAPE 1/DA TAPE, TAPE 2/EXT	150mV/22 kΩ
PHONO maximum input voltage (1 kHz, RMS)	
MM	160 mV
MC	12 mV
S/N	
rated power (4Ω)	
PHONO MM	77 dB (83 dB: IHF, A)
PHONO MC	64 dB (65 dB: IHF, A)
TUNER, CD, AUX, TAPE 1/DA TAPE, TAPE 2/EXT	91 dB (100 dB: IHF, A)
-26 dB power (4Ω)	
PHONO MM	68 dB
PHONO MC	62 dB

TUNER, CD, AUX, TAPE 1/DA TAPE, TAPE 2/EXT	70 dB
50 mW power (4Ω)	
PHONO MM	62 dB
PHONO MC	61 dB
TUNER, CD, AUX, TAPE 1/DA TAPE, TAPE 2/EXT	62 dB
Frequency response PHONO	RIAA standard curve ± 0.8dB (30 Hz ~ 15 kHz)
TUNER, CD, AUX, TAPE 1/DA TAPE, TAPE 2/EXT	5 Hz ~ 120 kHz (-3 dB) + 0, -0.2 dB (20 Hz ~ 20 kHz)
Tone controls BASS	50 Hz, +10 dB ~ -10 dB
TREBLE	20 kHz, +10 dB ~ -10 dB
Loudness control (volume at -30 dB)	50 Hz, +9 dB
Output voltage TAPE 1, 2 REC OUT	150 mV
Channel balance, AUX 250 Hz ~ 6,300 Hz	±1 dB
Channel separation, AUX 1 kHz	50dB
Headphones output level and impedance	500 mV/330 Ω
Load impedance MAIN or REMOTE	4 Ω ~ 16 Ω
MAIN and REMOTE	8 Ω ~ 16 Ω

■ GENERAL

Power consumption	490 W
Power supply	
For United Kingdom and Australia	AC 50 Hz/60 Hz, 240 V
For continental Europe	AC 50 Hz/60 Hz, 220 V
For others	AC 50 Hz/60 Hz, 110 V/127 V/220 V/240 V
Dimensions (W x H x D)	430 x 126 x 290 mm (16-15/16" x 4-31/32" x 11-7/16")
Weight	7.5 kg (16.5 lb.)

Notes:

- Specifications are subject to change without notice.
- Weight and dimensions are approximate.
- Total harmonic distortion is measured by the digital spectrum analyzer (H.P. 3045 system).

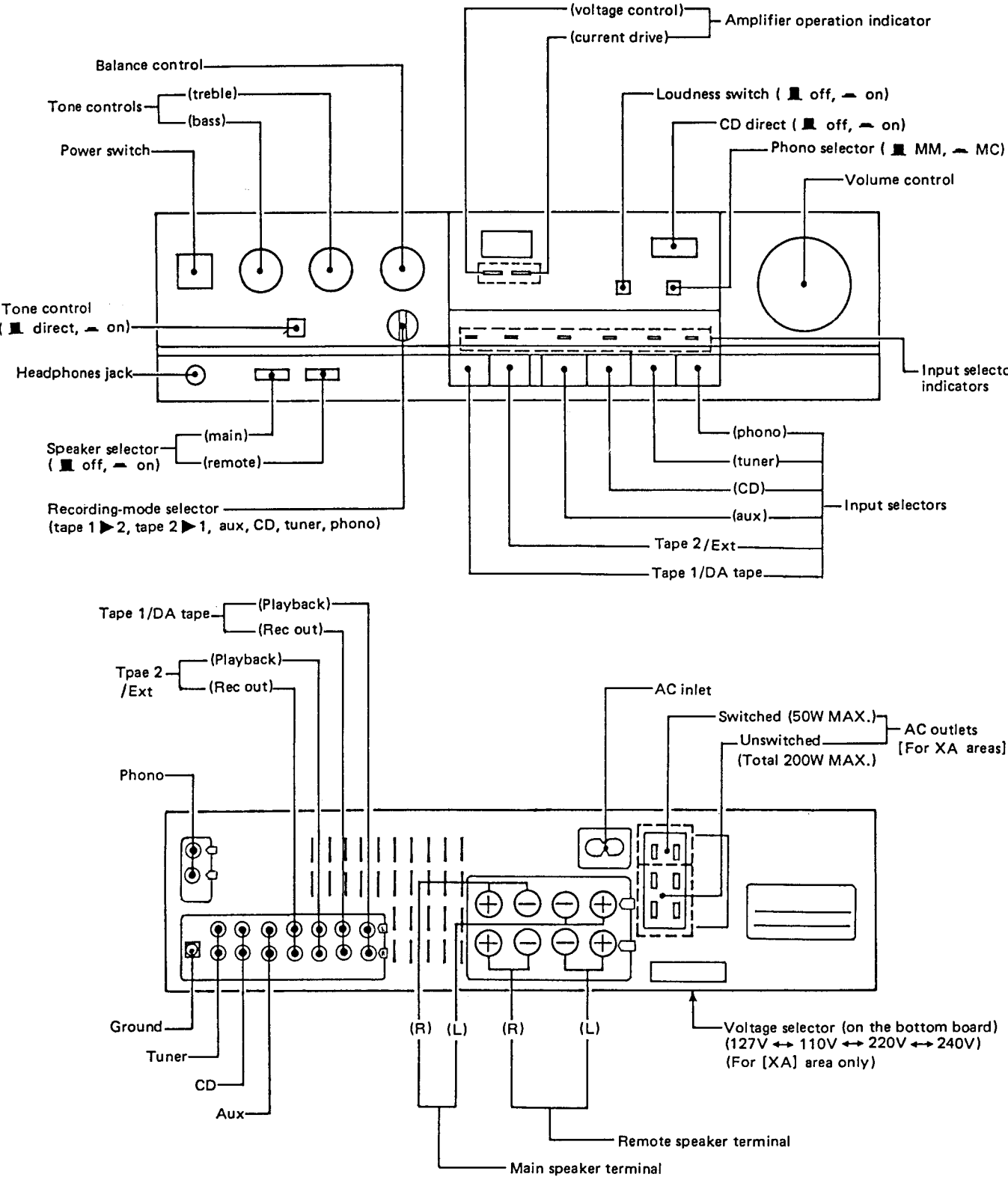
Technics

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

CONTENTS

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LOCATION OF CONTROLS



- The power supply for this unit varies depending upon the areas. Also, the parts used for power supply are different. So, refer to the circuit diagram and replacement parts list.
- * [XA] area is provided with voltage selector and AC outlets.
- * 240V (50/60Hz) for Australia and United Kingdom.
- * 220V (50/60Hz) for Continental Europe.
- * 127V/110V/220V/240V (50/60Hz) for other [XA] area.
- * Phono input capacitance is about 100pF.

Suggestions

- If noise is very annoying while listening to an FM or AM broadcast, switch OFF the video disc player, compact-disc player and turntable.
- Switch OFF the video disc player power if noise is excessive while listening to an audio tape, compact disc or regular phono disc.

Notes:

- To record sounds from a compact disc, press the input selector marked "CD". The compact-disc-direct switch is for listening only; it cannot be used to select the compact disc as a recording source.

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 function 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.

BEFORE REPAIR AND ADJUSTMENT

- (1) Turn off the power supply. Using a 10Ω, 5W resistor, shortcircuit both ends of power supply capacitors (C705, C706, 8200 μF) in order to discharge the voltage.
 - (2) Before turning on the power switch of the set .
 - A. Connect the voltage controller to the primary side.
 - B. Connect the AC ampere meter to the primary side or connect the DC voltage meter to the "±B" circuit of the secondary side.
 - C. Turn the VR of ICQ (VR401 and VR402) to minimum (counterclockwise).
 - D. After setting the output to zero of the voltage controller, turn on the power switch of the set. And increase the output of voltage controller gradually. Then, check carefully whether the current value of primary side become more than followings value or whether the DC voltage of secondary side is increasing slowly.
 - E. If the value of current is increasing unusually or the DC voltage is not increasing, lower the output level of voltage controller immediately.
 - F. Check the transistors of voltage amplifier and current amplifier IC501.
 - G. After repairing, adjust the ICQ.
- The current value of the primary side at no signal. (Confirm the power supply voltage of each area and provided voltage of the set.)

Power supply voltage		AC110V	AC127V	AC220V	AC240V
Consumed current	50/60Hz	280 ~ 560mA	260 ~ 520mA	140 ~ 280mA	130 ~ 260mA

■ DISASSEMBLY INSTRUCTIONS

" ATTENTION SERVICER "

SOME CHASSIS COMPONENTS MAY HAVE SHARP EDGES.
BE CAREFUL WHEN DISASSEMBLING AND SERVICING.

Ref. No.
1

How to remove the cabinet

Procedure
1

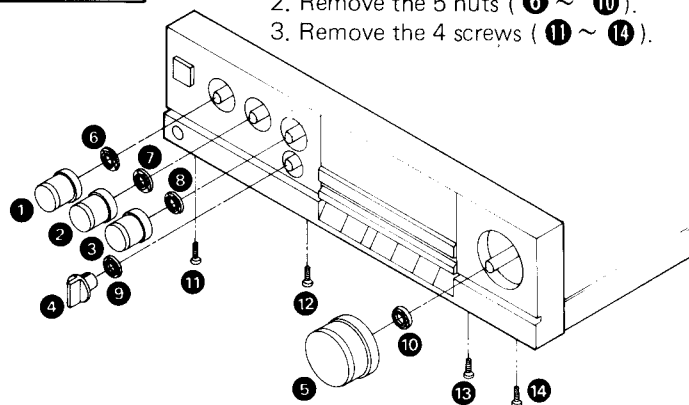
- Remove the 5 screws.

Ref. No.
2

How to remove the front panel

Procedure
1 → 2

1. Remove the 5 knobs (① ~ ⑤).
2. Remove the 5 nuts (⑥ ~ ⑩).
3. Remove the 4 screws (⑪ ~ ⑭).



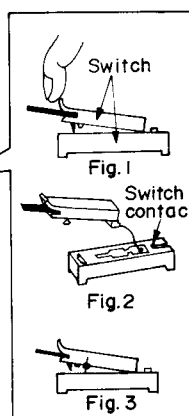
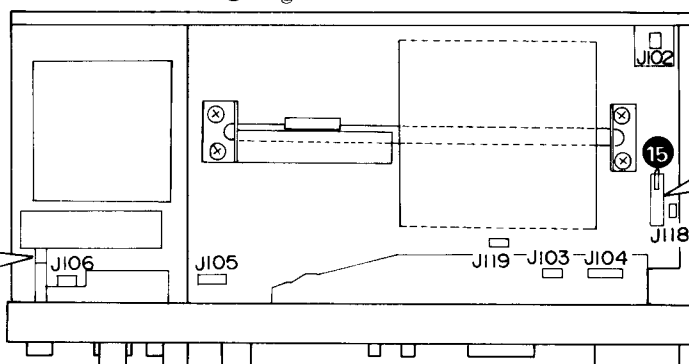
4. Remove the connection rod.
5. Remove the connector (J102, J103, J106, J118, J119).
6. Remove the flat cable (J104, J105).
7. Remove the "Rec-select" switch (⑮).

● How to remove the "Rec-select" switch

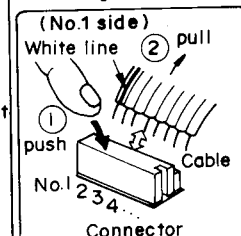
Pushing the rec switch, shift it up as in Fig. 1.

● How to fit the rec switch

- (1) Shift the switch contact inside.
- (2) Turn the "Rec-select" switch (selector knob) counterclockwise.
- (3) Let the "Rec-select" switch claw change with the switch, and shift the "Rec-select" switch down while pushing in.



Removing the flat cable

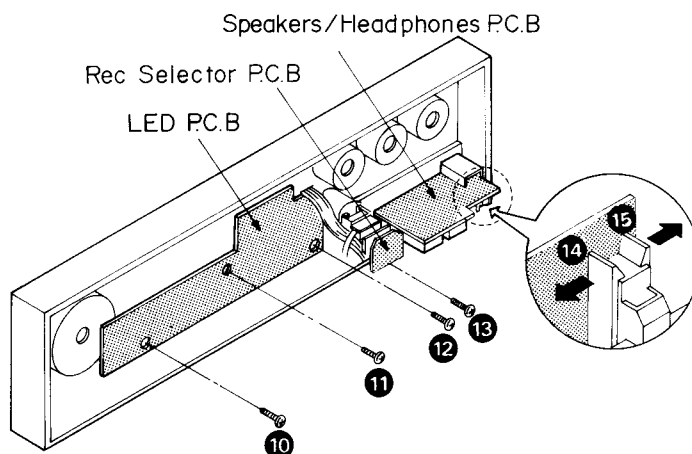
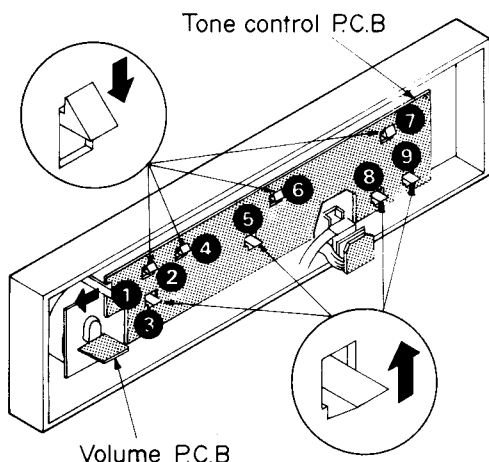


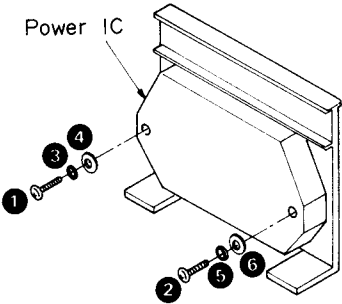
Ref. No.
3

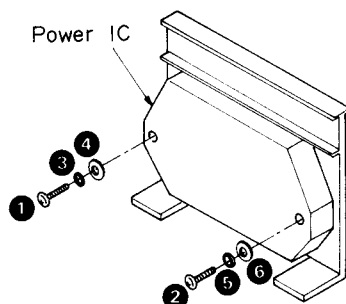
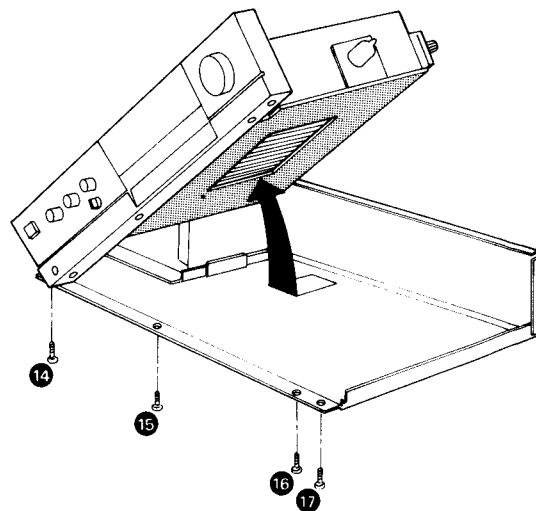
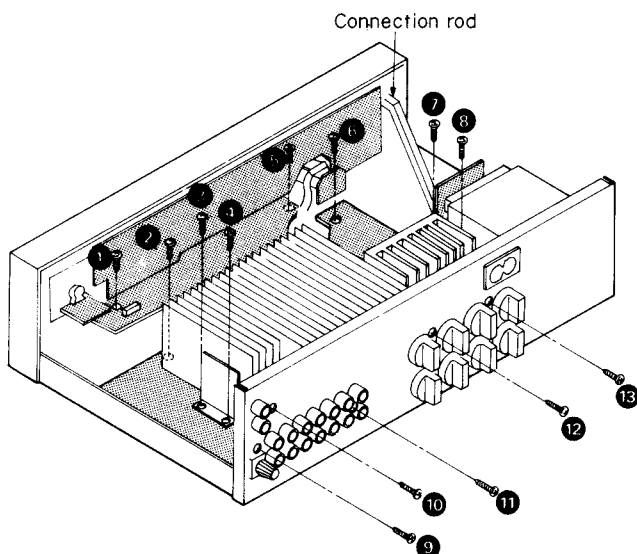
How to remove the P.C.B.

Procedure
1 → 2 → 3

1. Push the 9 tabs (① ~ ⑨).
2. Remove the tone and volume P.C.B.
3. Remove the 3 screws (⑩ ~ ⑫).
4. Remove the LED P.C.B.
5. Remove the 1 screw (⑬).
6. Push the 2 tabs (⑭, ⑮).
7. Remove the speakers/headphones P.C.B.



Ref. No. 4	How to remove the main P.C.B.	
Procedure 1 → 4	1. Remove the 15 screws (❶ ~ ❷). 2. Remove the connection rod. 3. Remove the main P.C.B.	
Ref. No. 5	How to remove the power IC.	
Procedure 1 → 4 → 5	 1. Unsolder the power IC. 2. Remove the 2 screws (❶ , ❷). 3. Remove the 4 washer (❸ ~ ❹). ● When mounting the power IC, apply silicon thermal compound (SZZ0L15 or equivalent) to the rear of the power IC.	



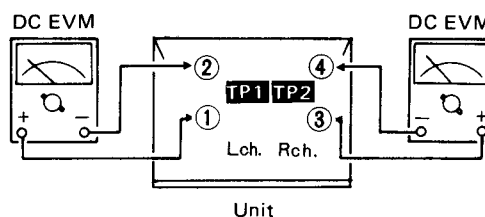
MEASUREMENTS AND ADJUSTMENTS

Control positions and equipment used.

- Volume knob 0 (Minimum)
- Main speaker selector off
- Remote speaker selector off
- Speaker impedance switch $8\Omega \sim 16\Omega$
- DC electronic voltmeter (EVM)

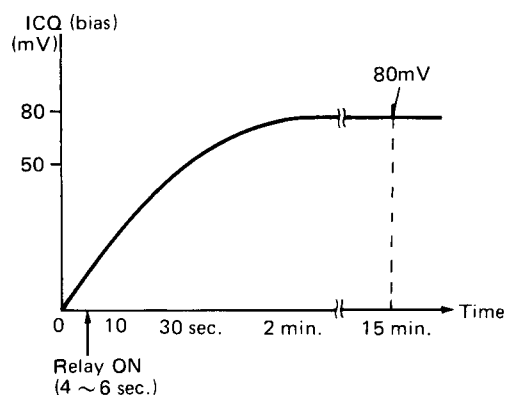
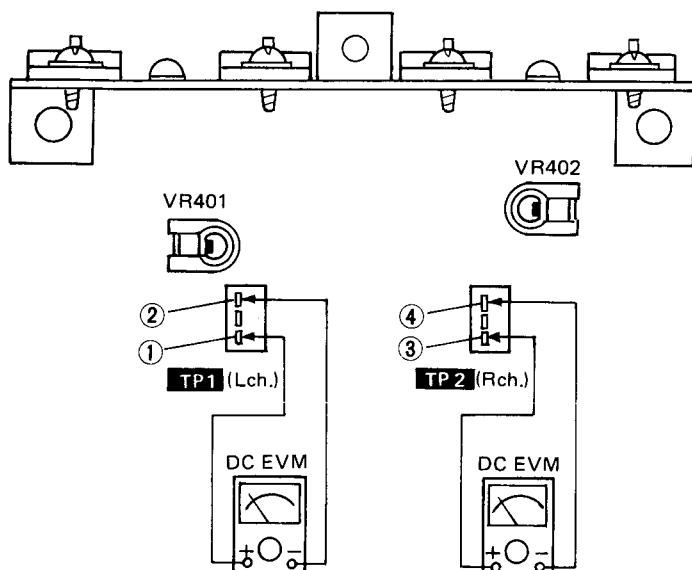
IDLING (ICQ) ADJUSTMENT

1. Test equipment connection is shown in figure.
(Connect the DC EVM. on both channels.)
2. Turn the ICQ control volume (**VR401, VR402**) counter-clockwise.
3. Turn ON the set when it is cold, and 15 sec. later, adjust **VR401** and **VR402** so that the voltage is **50mV**. Also, check that the voltage is **60 ~ 85mV** (standard: **80mV**) after lapse of **10 ~ 15 minutes**. (Below **85mV** after lapse of **60 min.**.)



Adjustment points

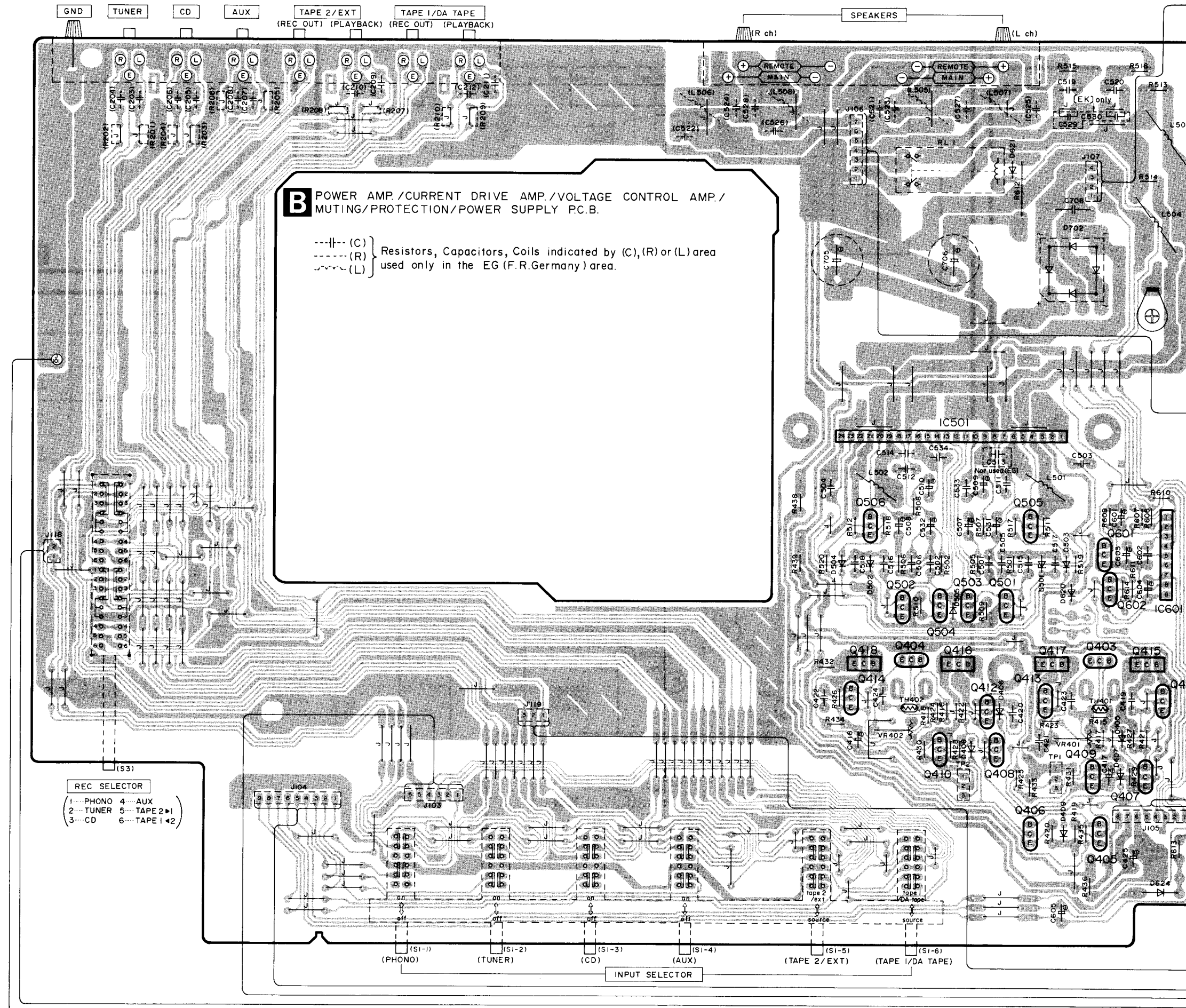
Voltage control Amp.

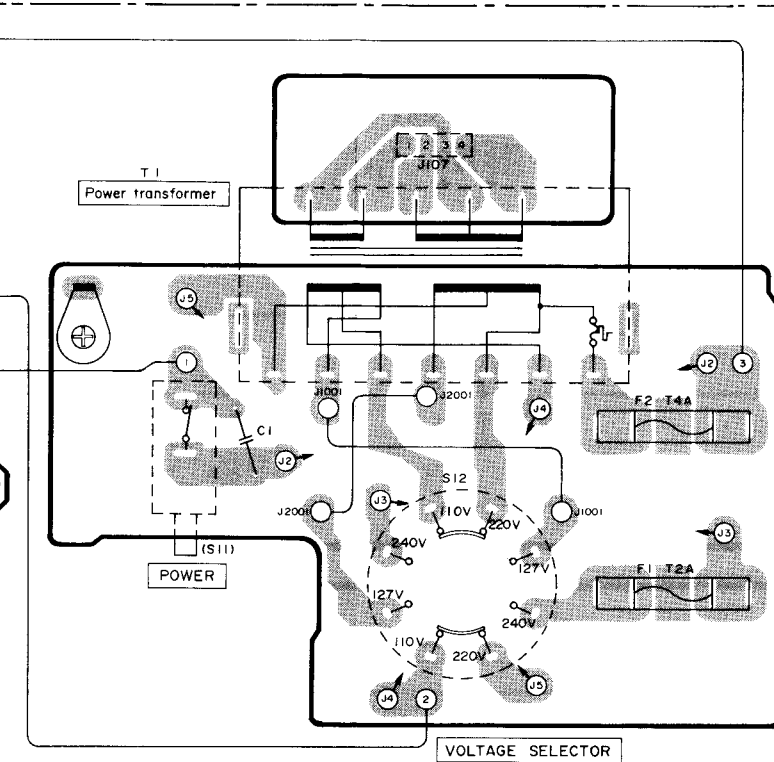
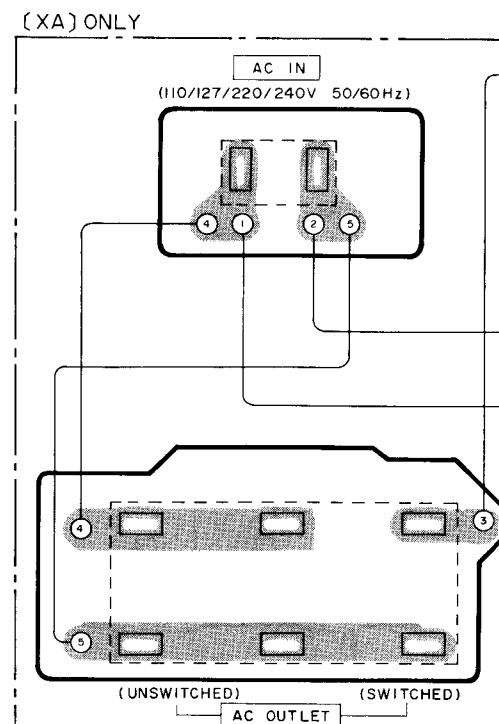
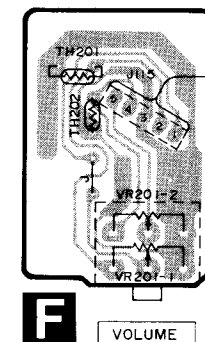
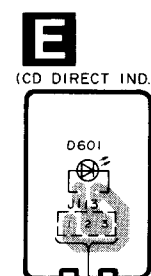
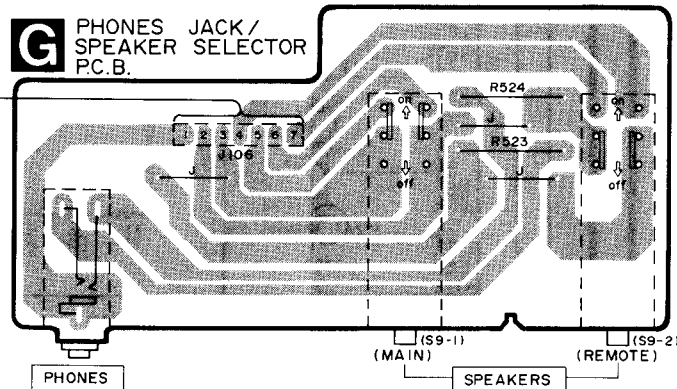
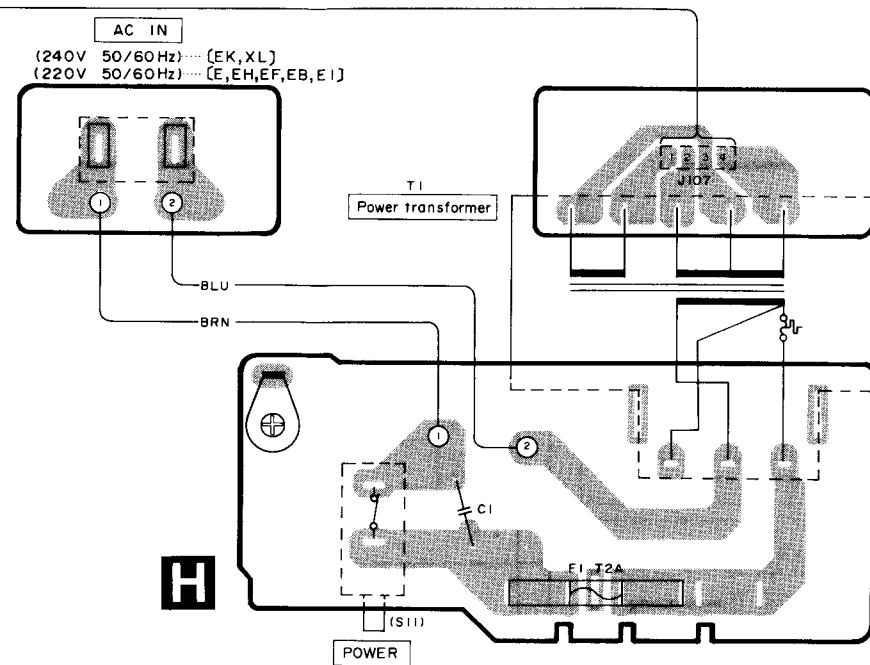


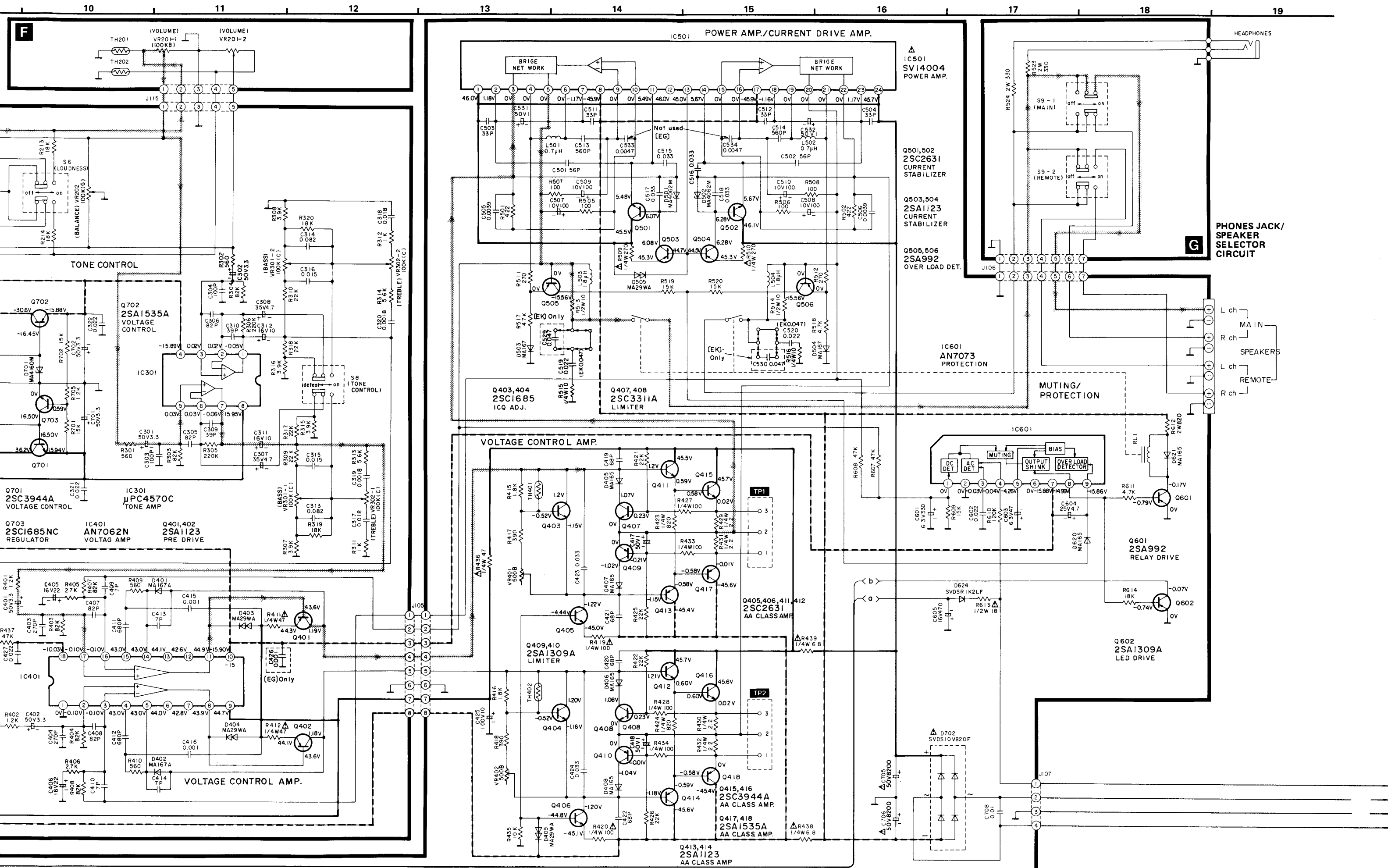
Terminal guide of IC, transistor and diodes

<table><tr><td>AN6558F</td><td>8pin</td></tr><tr><td>μ PC4570C</td><td>8pin</td></tr><tr><td>AN7062N</td><td>18pin</td></tr></table>	AN6558F	8pin	μ PC4570C	8pin	AN7062N	18pin	SVI4004 24pin	AN7073 9pin	2SA1123, 2SA992 2SC1685, 2SC2631
AN6558F	8pin								
μ PC4570C	8pin								
AN7062N	18pin								
2SA1309 2SC3311	2SA1535 2SC3944	MA165, MA167 SVDS10VB20F SVDSR1K2LF MA29WA Ca ○ — >— ○ A	MA4062M, MA4033M MA4160M Ca ○ — >— ○ A	LN021315P LN014314PH1 LN064316P Ca ○ — >— ○ A					

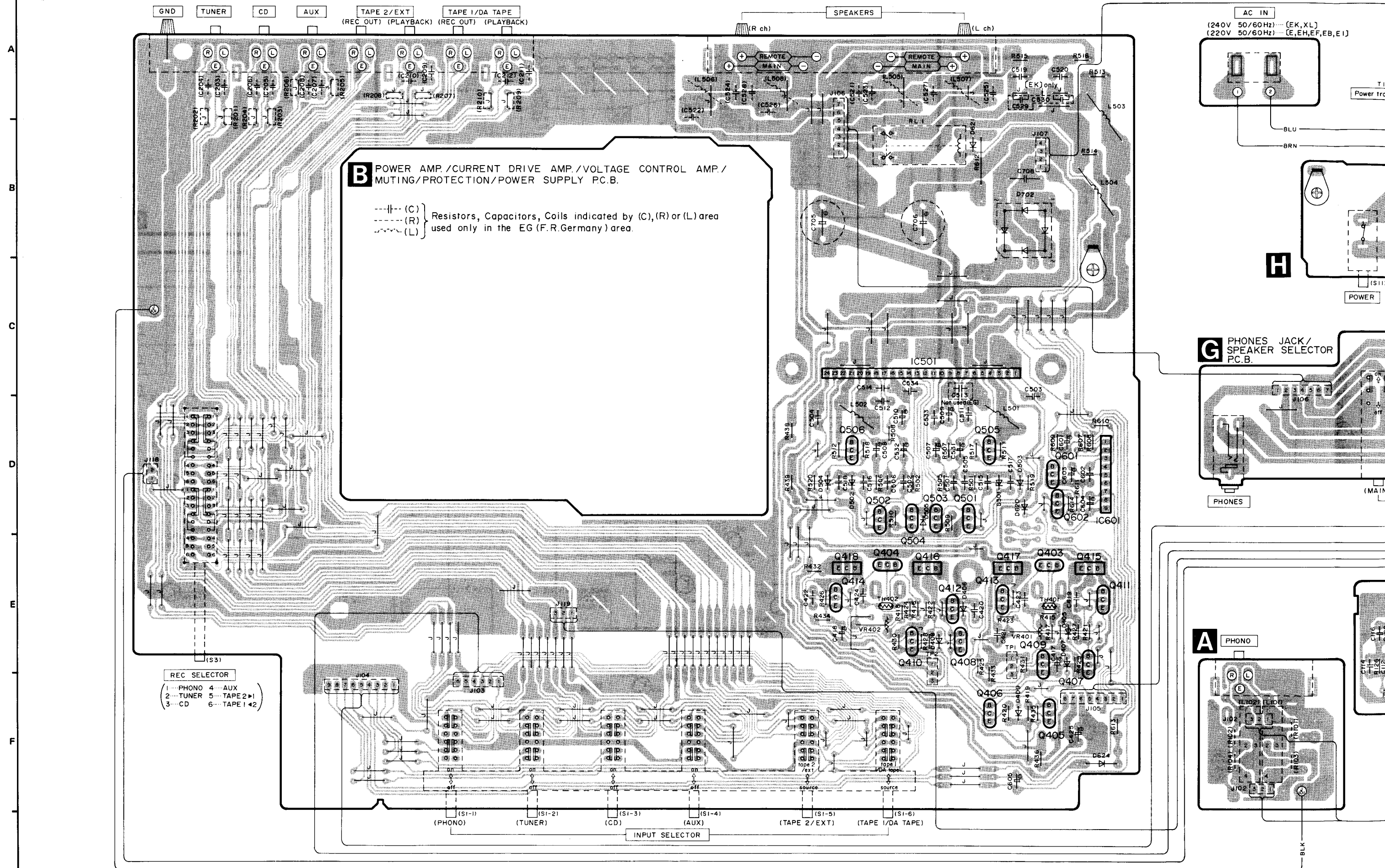
PRINTED CIRCUIT BOARDS AND WIRING CONNECTION DIAGRAM

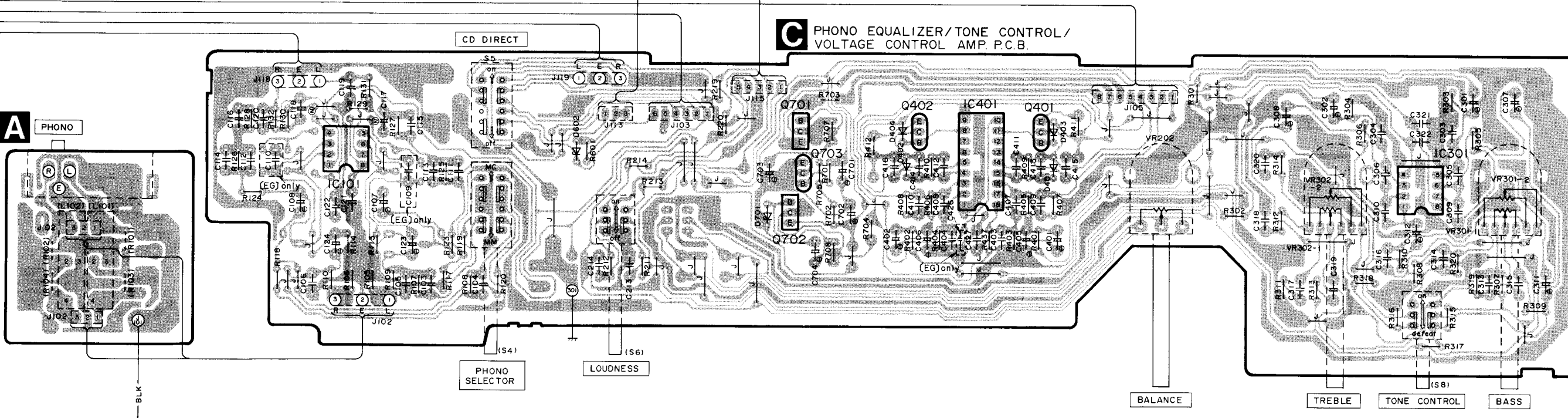
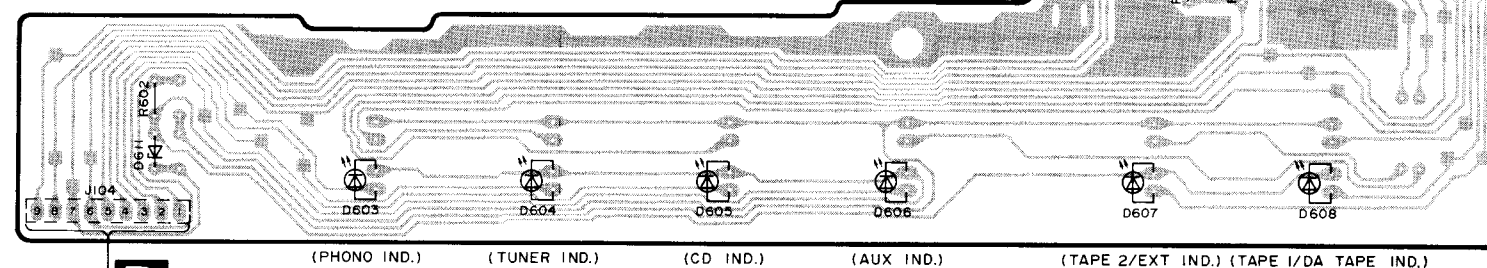
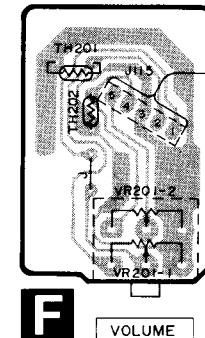
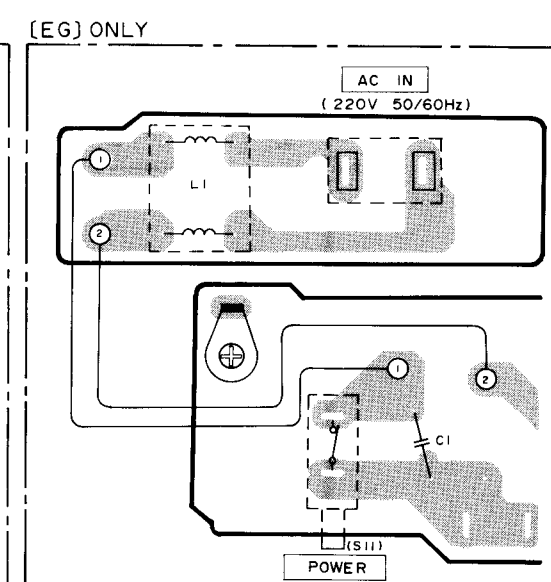






PRINTED CIRCUIT BOARDS AND WIRING CONNECTION DIAGRAM



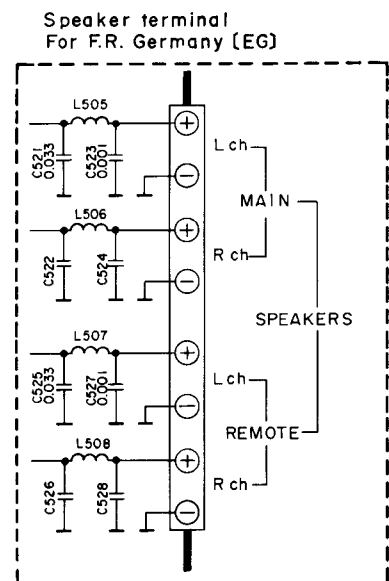


■ SCHEMATIC DIAGRAM

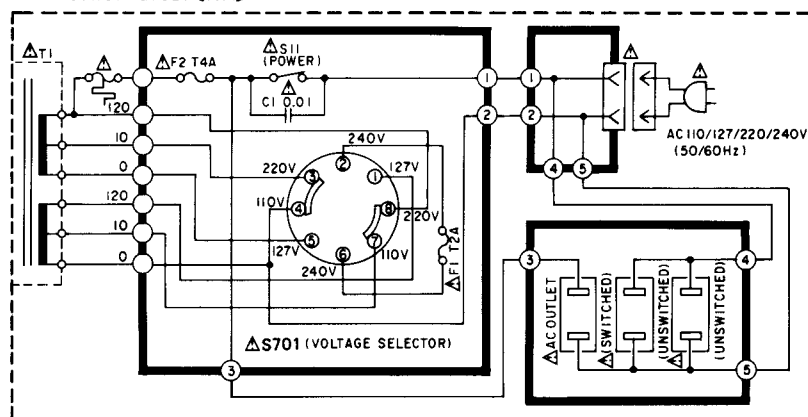
(This schematic diagram may be modified at any time with the development of new technology.)

Note:

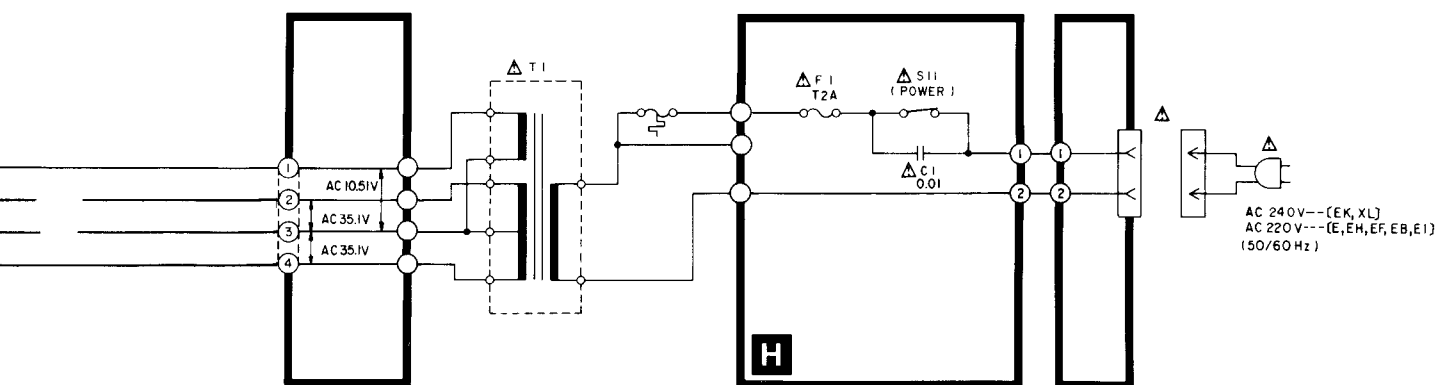
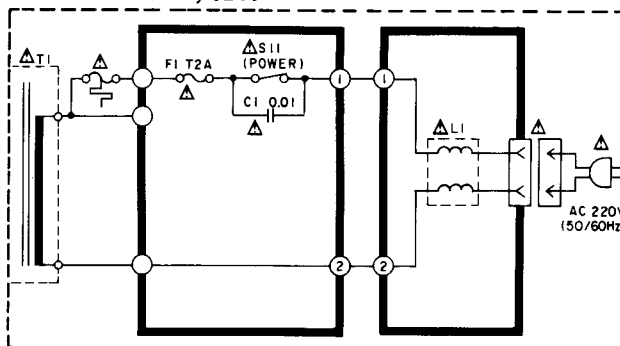
1. **S1-1 ~ S1-4:** Input selector switch in "phono" position.
S1-1: phono S1-2: tuner S1-3: CD
S1-4: aux S1-5: Tape 2/ext S1-6: Tape 1/DA tape
2. **S3-1, S3-2:** Recording selector in "CD" position.
3. **S4:** Phono selector in "MM" position.
(■ MM, ▲ MC)
4. **S5:** CD direct switch in "off" position.
(■ off, ▲ on)
5. **S6:** Loudness switch in "off" position.
(■ off, ▲ on)
6. **S8:** Tone control switch in "defeat" position.
(■ defeat, ▲ on)
7. **S9-1:** Main speaker switch in "on" position.
(■ off, ▲ on)
8. **S9-2:** Remote speaker switch in "off" position.
(■ off, ▲ on)
9. **S11:** Power switch in "on" position.
(■ off, ▲ on)
10. **S701:** (For [XA] area only): Voltage selector switch in "110V" position.
(127V ↔ 110V ↔ 220V ↔ 240V)
11. 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.
 ■ Phono signal (Lch)
 ■ Positive voltage lines ■ Negative voltage lines.
12. Important safety notice:
Components identified by ▲ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.



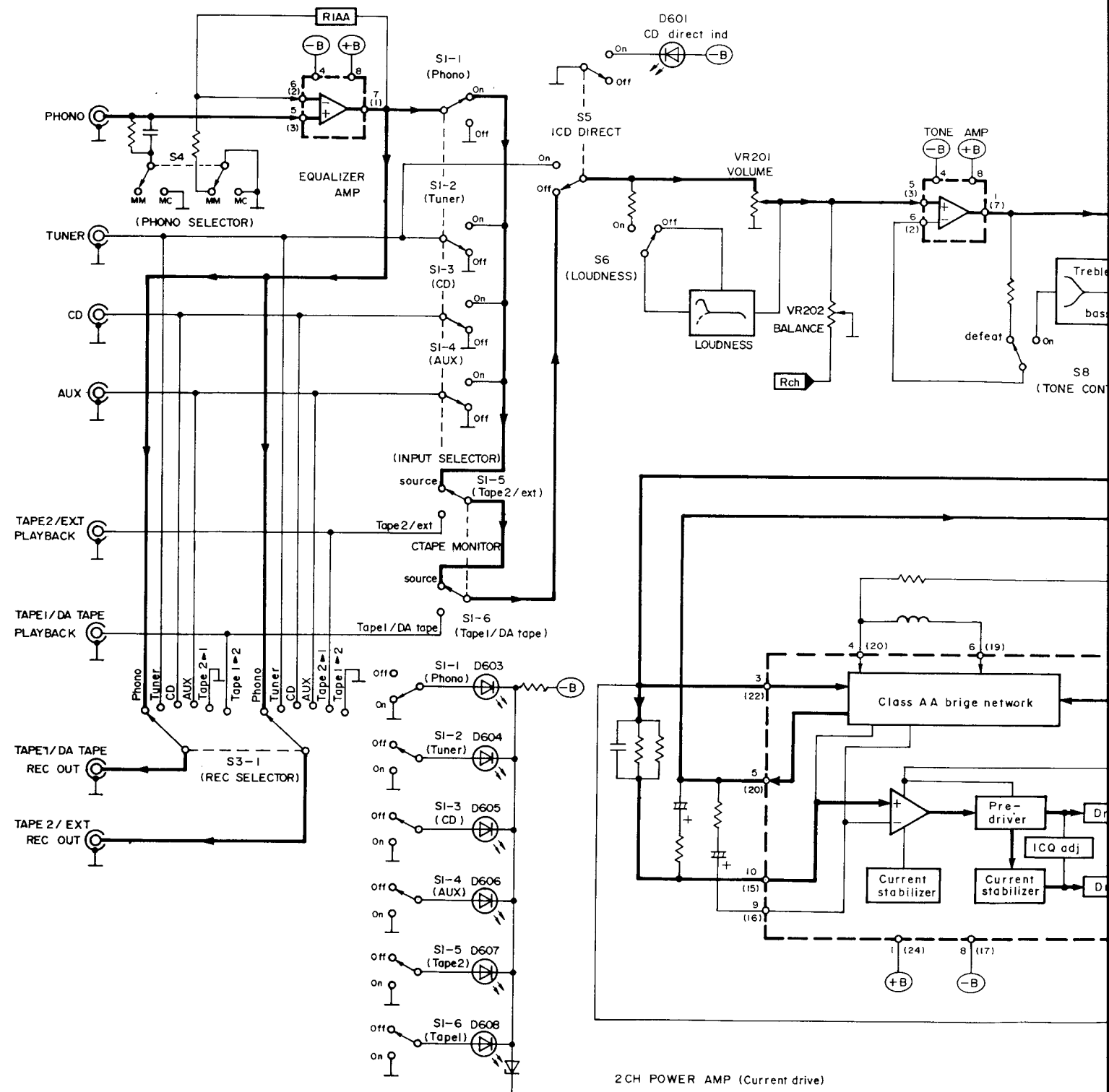
For other areas [XA]



For F.R. Germany [EG]



■ BLOCK DIAGRAM



2CH POWER AMP (Current drive)

() Indicates pin NO. of right channel.

REPLACEMENT PARTS LIST

Notes: * Important safety notice:

Components identified by Δ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

* Bracketed indications in Ref. No. columns specify the area.

Parts without these indications can be used for all areas.

Numbering System of Resistor

Example

ERD	25	F	J	102
Type	Wattage	Shape	Tolerance	Value
ERX	2	AN	J	471
Type	Wattage	Shape	Tolerance	Value
				47×10^1 (ohm)

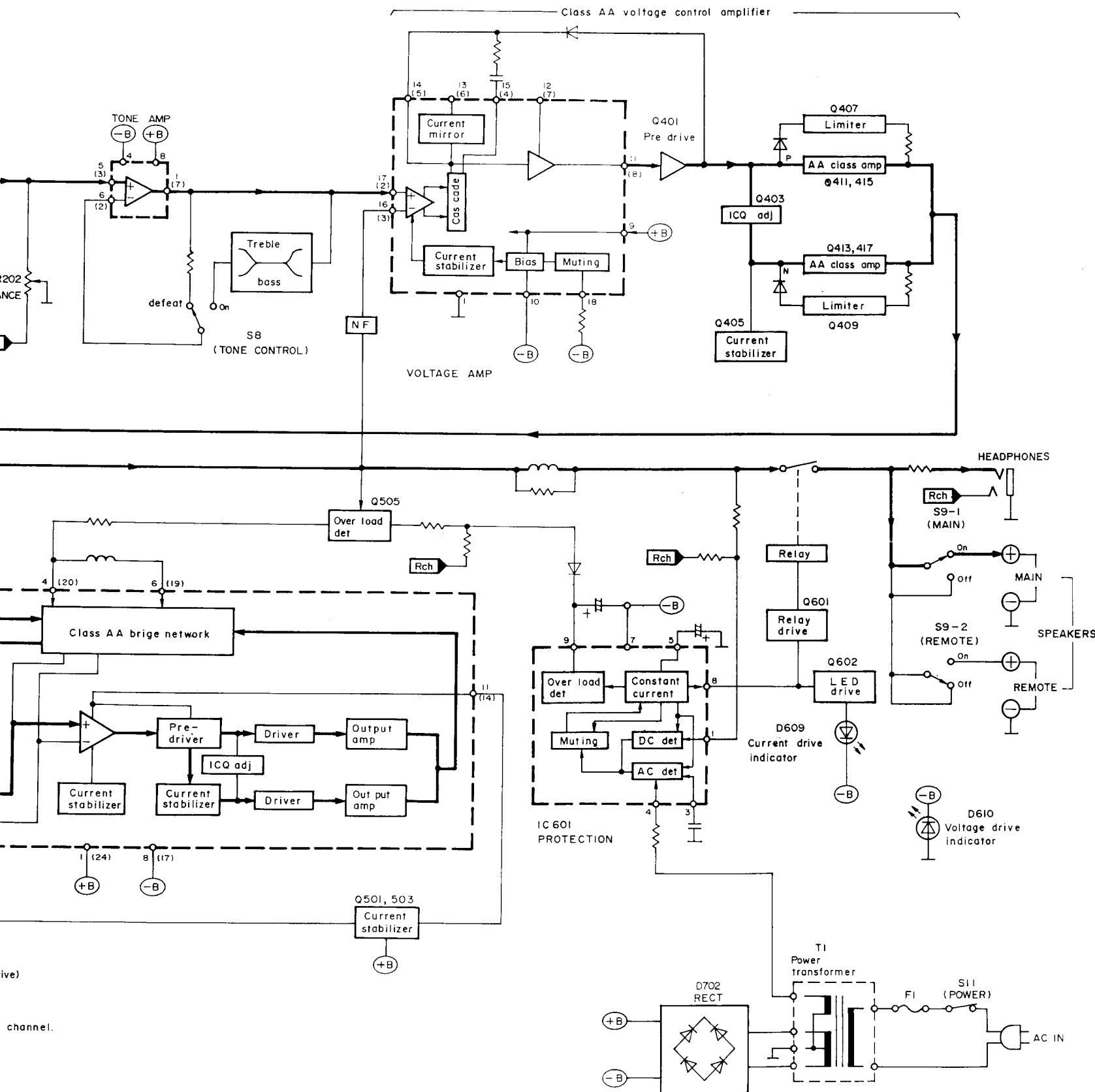
Numbering System of Capacitor

Example

ECKD	1H	102	Z	F
Type	Voltage	Value	Tolerance	Peculiarity
ECEA	50		M	330
Type	Voltage		Peculiarity	Value
				$(33 \times 10^0 \text{ microfarad})$

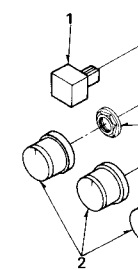
Resistor Type	Wattage	Tolerance
ERD : Carbon	10 : 1/8W	J : $\pm 5\%$
ERG : Metal Oxide	12 : 1/2W	F : $\pm 1\%$
ERX : Metal Film	25 : 1/4W	G : $\pm 2\%$
ERQ : Fuse Type Metal	1A : 1W	K : $\pm 10\%$
ERD L : Carbon (chip)	18 : 1/8W	
ERD K : Metal Film (chip)	S2 : 1/4W	
ERC : Solid	S1 : 1/2W	
	2F : 1/4W	
	50 : 1/2W	
	2A : 2W	

Capacitor Type	Voltage	Tolerance
ECE : Electrolytic	0J : 6.3V	C : $\pm 0.25\text{pF}$
ECCD : Ceramic	1A : 10V	J : $\pm 5\%$
ECKD : Ceramic	1C : 16V	K : $\pm 10\%$
ECQM : Polyester	1E : 25V	Z : $\pm 80\%$
	1H : 50V	-20%
ECQP : Polypropylene	1V : 35V	P : $\pm 100\%$
	50 : 50V	-0%
ECG : Ceramic	05 : 50V	M : $\pm 20\%$
ECEADDN : Non Polar Electrolytic	2H : 500V	
QCU : Ceramic (Chip Type)	2A : 100V	D : $\pm 0.5\text{pF}$
ECUX : Ceramic (Chip Type)	1 : 100V	G : $\pm 2\%$
ECF : Semiconductor	KC : 400V AC	
	KC : 125VAC (UL)	
	1J : 63V	
EECW : Liquid electrolyte double layer capacitor		



Ref. No.	Part No.	Part Code	Ref. No.	Part No.	Part Code	Ref. No.	Part No.	Part Code
RESISTORS			CAPACITORS					
R101, R102 (EG)	ERDS2TJ102	001 152 2346 4	R407, R408 R409, R410 R411, R412 R415, R416 R417, R418 R419, R420 R421, R422 R423, R424 R425, R426 R427, R428 R429, R430 R431, R432 R433, R434 R435 R436 R437 R438, R439 R501, R502 R505, R506 R507, R508 R509, R510 R511, R512 R513, R514 R515, R516 R517, R518 R519, R520 R523, R524 R601 R602 R604 R605 R607, R608 R609 R610 R611 R612 R613 R614 R701, R702 R703, R704 R705 R707, R708	FSR25TJ823T2 ERDS2TJ561 Δ ERD25FJ470 ERDS2TJ182 ERDS2TJ391 ERD25FJ101 ERDS2TJ223 ERD25FJ821 ERDS2TJ223 ERD25FJ101 ERD25FJ2R2 ERD25FJ2R2 ERD25FJ101 ERDS2TJ103 ERD25FJ470 ERDS2TJ473 ERD25FJ6R8 ERDS2TKF4220 ERDS2TJ101 ERDS2TJ101 Δ ERD25FJ271 ERDS2TJ271 ERDS1FJ100 ERD25FJ100 ERDS2TJ472 ERDS2TJ153 ERG2SJ331 ERDS2TJ391 ERDS2TJ331 ERDS2TJ471 ERDS2TJ331 ERDS2TJ473 ERDS2TJ153 ERDS2TJ124 ERDS2TJ472 ERG2SJ821 ERDS1FJ180 ERDS2TJ183 ERDS2TJ153 ERD25FJ821 ERDS2TJ122 ERDS1FJ822	001 152 2364 2 001 152 0309 7 001 152 2352 6 001 152 2360 6 001 152 0214 3 001 152 2432 7 001 152 0354 2 001 152 2432 7 001 152 0214 3 001 152 0251 8 001 152 0251 8 001 152 0214 3 001 152 2347 3 001 152 0309 7 001 152 2363 3 001 152 0335 5 001 151 5927 2 001 152 2421 0 001 152 2421 0 001 152 0272 3 001 152 2435 4 001 152 2612 5 001 152 0213 4 001 152 2362 4 001 152 2361 7 001 151 3570 9 001 152 2360 6 001 152 2356 2 001 152 2361 5 001 152 2356 2 001 152 2363 3 001 152 2351 7 001 152 2425 6 001 152 2362 4 001 151 4940 9 001 152 2620 5 001 152 2429 2 001 152 2351 7 001 152 0354 2 001 152 2423 8 001 152 5897 6	C1 [XA] C1 [E, EG, EF] [EH, EB, EI] [XL] C103 (EG) C103 [E, EK, EF] [EH, EB, EI] [XL, XA] C104 (EG) C104 [E, EK, EF] [EH, EB, EI] [XL, XA] C105, C106 [E, EK, EF] [EH, EB, EI] [XL, XA] C107, C108 C109, C110 [EG] C111, C112 C113, C114 C115, C116 C117, C118 C119, C120 C121, C122 C123, C124 C203, C204 [EG] C205, C206 [EG] C207, C208 [EG] C209, C210 [EG] C211, C212	ECKDKC103PF2 ECKWNS103ZVS ECCD1H102KB ECQM1H103JZ ECCD1H102KB ECQM1H103JZ ECCD1H181K ECCD1H122JZ ECQM1H103JZ ECQM1H393JZ ECEA1H10101S ECQM1H472JZ ECCD1H103PF ECEA1HPS3R3 ECCD1H101K ECCD1H101K ECCD1H101K ECCD1H101K ECCD1H101K ECCD1H101K	001 103 3734 7 001 103 9317 6 001 103 1414 8 001 106 0667 8 001 103 1414 8 001 106 0667 8 001 103 0466 0 001 120 3161 5 001 103 1551 0 001 106 0683 8 001 106 0667 8 001 106 0794 2 001 120 0354 0 001 106 0801 0 001 103 1449 7 001 120 6064 3 001 103 0341 2 001 103 0341 2 001 103 0341 2 001 103 0341 2 001 103 0341 2 001 103 0341 2
R103, R104 (EG)	ERDS2TJ102	001 152 2346 4						
R105, R106	ERDS2TJ274	001 152 2437 2						
R107, R108	ERDS2TJ221	001 152 2431 8						
R109, R110	ERDS2TJ220	001 152 2430 9						
R113, R114	ERDS2TJ563	001 152 2446 1						
R117, R118	ERDS2TJ151	001 152 2426 5						
R119, R120	ERDS2TJ100	001 152 2420 1						
R123, R124	ERDS2TJ151	001 152 2426 5						
R125, R126	ERDS2TJ682	001 152 2365 1						
R127, R128	ERDS2TJ823	001 152 2456 9						
R129, R130	ERDS2TJ334	001 152 2438 1						
R131, R132	ERDS2TJ561	001 152 2364 2						
R201, R202 (EG)	ERDS2TJ102	001 152 2346 4						
R203, R204 (EG)	ERDS2TJ102	001 152 2346 4						
R205, R206 (EG)	ERDS2TJ102	001 152 2346 4						
R207, R208 (EG)	ERDS2TJ102	001 152 2346 4						
R209, R210 (EG)	ERDS2TJ102	001 152 2346 4						
R211, R212	ERDS2TJ473	001 152 2363 3						
R213, R214	ERDS2TJ183	001 152 2429 2						
R219, R220	FSR25TJ272T2							
R301, R302	FSR25TJ561T2							
R303, R304	ERDS2TJ823	001 152 2456 9						
R305, R306	ERDS2TJ224	001 152 2433 6						
R307, R308	ERDS2TJ392	001 152 2439 0						
R309, R310	ERDS2TJ223	001 152 2432 7						
R311, R312	ERDS2TJ102	001 152 2346 4						
R313, R314	ERDS2TJ562	001 152 2445 2						
R315, R316	FSR25TJ392T2							
R317, R318	FSR25TJ223T2							
R319, R320	ERDS2TJ183	001 152 2429 2						
R401, R402	ERDS2TJ122	001 152 2423 8						
R403, R404	ERDS2TJ823	001 152 2456 9						
R405, R406	FSR25TJ272T2							

A
B
C
D
E
F



Ref. No.	Part No.	Part Code	Description	Ref. No.	Part No.	Part Code	Description
CABINET AND CHASSIS				40	SJS9231A	003 410 5984 5	SOCKET COVER
1	SBC666	016 702 5545 6	BUTTON, POWER	(E, EG, EK)			
1	SBC666-5	016 702 6679 9	BUTTON, POWER	(EF, EH, EB)			
2	SBN1206	016 700 1846 2	KNOB	(E, I, XA)			
2	SBN1207-1	016 700 1845 3	KNOB	(XL)	SJS9234A	003 400 5921 6	AC INLET COVER
3	SBN1089-3	016 700 1861 3	KNOB	41	SMX477-1	016 600 0501 5	SHIELD SPACER
3	SBN1089-4	016 700 1860 4	KNOB	(EG)			
4	SBN1210	016 700 1859 7	KNOB	42	SJF3062N	003 410 6082 0	TERMINAL BOARD
4	SBN1210-1	016 700 1862 2	KNOB	43	SJF3057-5N	003 410 6144 3	TERMINAL BOARD
5	SGWUV55A-KE	016 840 7886 9	FRONT PANEL	44	SMX910	016 600 0495 6	SHIELD SPACER
5	SGWUV55A-SE	016 840 8024 3	FRONT PANEL	(E, EG, EK)			
6	SGX7914	016 846 3856 1	ORNAMENT	(EF, EH, EB)			
6	SGX7914-1		ORNAMENT	(E, I, XL)			
7	SGL246	016 846 3894 5	ORNAMENT	45	SNE4021	005 507 0372 5	NUT
9	SGXUV55A-KE	016 846 3904 0	ORNAMENT	46	XTBS3+10JFZ1	005 501 3413 1	TAPPING SCREW
9	SGXUV55A-SE	016 846 3927 3	ORNAMENT	47	XTB3+10GFR	005 501 3126 5	SCREW
10	SXE1129		HEAT SINK	48	XTW3+10T	005 501 0596 9	SCREW
11	SMC6407-1	016 601 0633 9	SHIELD COVER	49	SNE2129	005 500 8058 5	SCREW
13	SBC439	016 702 0695 6	BUTTON	49	SNE2129-1	005 500 7938 6	SCREW
13	SBC439-2	016 702 6011 7	BUTTON	50	XTBS3+10JFZ1	005 501 3413 1	TAPPING SCREW
14	SJJ126B	003 400 5320 7	JACK	51	XTB3+8FFZ	005 501 2531 0	TAPPING SCREW
15	SBC719	016 702 6143 6	BUTTON	52	XYN3+F8	005 503 0513 0	SCREW
15	SBC719-1	016 702 1277 3	BUTTON	(XA)			
16	LN014314PH1		DIODE, GAASP	53	XTB3+20J	005 501 3410 4	SCREW
17	SBC820	016 702 6431 1	BUTTON	54	XTW3+8T	005 501 1358 9	SCREW
17	SBC820-1	016 702 6432 0	BUTTON	55	XTBS3+20F1	005 501 2522 1	SCREW
18	LN021315P	001 032 8371 8	DIODE, GAASP	56	XYN3+F14	005 503 0346 7	TAPPING SCREW
19	LN064316P	001 032 8373 6	DIODE, GAASP	57	SHR301	016 645 0044 0	CLAMPER
20	SUB233	016 712 0272 6	ROD	58	SJS5341	003 403 4292 1	CONNECTOR
21	SJT388	003 410 6092 8	LUG TERMINAL	59	SJT3311	003 410 1819 3	PLUG
(E, EG, EK)				60	SJT3711	003 410 6955 6	CONNECTOR
(EF, EH, EB)				61	SJT30840LX-V	003 410 5998 9	LUG TERMINAL
(E, I, XL)				61	SJT30840LX-V	003 410 6150 5	LUG TERMINAL
22	SHR415	016 652 0088 7	LOCK PIN	62	SJT783	003 410 6001 7	CONTACT
23	SJS305-1		JACK, SOCKET	63	SJS5215	003 400 5923 4	CONNECTOR
(E, EG, EK)				63	SJS5331	003 400 5924 3	CONNECTOR
(EF, EH, EB)				63	SJS5629	003 400 5917 2	CONNECTOR
(E, I, XL)				63	SJS5715	003 400 6034 4	SOCKET(7P)
24	SKC1760K992	016 800 2648 5	CABINET	64	SJT3213	003 410 6011 5	CONNECTOR
24	SKC1760S982	016 800 2689 6	CABINET	64	SJT3319	003 403 3892 7	CONNECTOR
25	SKL308	016 828 0330 0	FOOT	64	SJT3321	003 410 5999 8	POST(3P)
26	SKL309	016 828 0329 3	FOOT	64	SJT3611	003 410 6000 8	CONNECTOR
27	SUB254	016 712 0318 9	ROD				
28	SKU11280-3	016 802 1927 5	BOTTOM BOARD	PACKINGS			
(XA)				P1	SPG5958	016 971 5141 1	CARTON BOX
28	SKU11280-4	016 802 1889 4	BOTTOM BOARD	(E, EG, EK)			
(E, EG, EK)				(EH, EB, E1)			
(EF, EH, EB)				(XL, XA)			
(E, I, XL)				P1	SPG5959	016 971 5140 2	CARTON BOX
29	SHE187-1	016 918 0584 9	SPACER	(E, EG, EK)			
30	SUS227	016 727 0111 1	SPRING	(EH, EB, E1)			
31	SJT347	003 410 1830 8	FUSE HOLDER	(XL, XA)			
(XA)				P1	SPG5960	016 971 5119 9	CARTON BOX
32	SJS702-1		JACK, SOCKET	(EF)			
(XA)				P2	SPSK101-1	016 977 3351 1	PAD
33	SMX916	016 600 0494 7	SHIELD SPACER	P3	SPSK102-1	016 977 3350 2	PAD
(XA)				P4	SPS4613-1	016 977 2965 4	PAD
34	SJS93288	003 410 6976 1	SOCKET	P5	SPP723	016 978 0207 5	PROTECTION COVER
(XA)				ACCESSORIES			
35	SJS9231-1B	003 400 7442 8	SOCKET	A1	SJP9215	003 402 1437 9	AC PLUG ADAPTOR
(E, EG, EK)				(XA)			
(EF, EH, EB)				A2	SFDAC05E03	003 490 4809 5	POWER CORD
(E, I, XA)				(E, EG, EF)			
35	SJS9234B	003 400 5922 5	AC INLET	(EH, EB, E1)			
(XL)				A2	SFDAC05G02	003 490 2613 3	POWER CORD
36	SJF4815-2	003 410 3831 9	TERMINAL BOARD	(EK)			
37	SMX909	016 600 0482 1	SHIELD SPACER	A2	SJA168-1	003 490 4122 9	POWER CORD
38	SGP6810-4A	016 840 8022 5	REAR PANEL	(XA)			
(E)				A2	SJA173	003 490 4161 2	POWER CORD
38	SGP6810-4B	016 840 7906 2	REAR PANEL	(XL)			
(EG, EF, EH)				A3	SQF12881	018 983 5261 8	INSTRUCTION BOOK
(EB, E1)				(E, EK, EF)			
38	SGP6810-4C	016 840 7869 0	REAR PANEL	(EH, EB, E1)			
(EK)				(XL)			
38	SGP6810-4D	016 840 7940 0	REAR PANEL	A3	SQF12882	016 983 5350 8	INSTRUCTION BOOK
(XL)				(EG)			
38	SGP6810-5A	016 840 7787 1	REAR PANEL	A3	SQF12883	016 983 5286 9	INSTRUCTION BOOK
(XA)				(XA)			
39	SJS9328A	003 410 6975 2	SOCKET COVER				
(XA)							

Ref. No.	Part No.	Part Code	Ref. No.	Part No.	Part Code	Ref. No.	Part No.	Part Code
C213, C214	ECQM1H563JZ	001 106 0827 0	C427	ECKD1H223PF	001 103 1510 9	(EG)		
C301, C302	ECEA1HPS3R3	001 120 6064 3	C501, C502	ECCD1H560K	001 103 0660 0	C527, C528	ECKD1H102MD	001 103 1424 6
C303, C304	ECCD1H101K	001 103 0341 2	C503, C504	ECCD2H330K	001 103 0754 5	(EG)		
C305, C306	ECCD1H820K	001 103 0703 6	C505, C506	ECQM1H392JZ	001 106 0790 6	C529, C530	ECQM1H473JZ	001 106 0810 9
C307, C308	ECEA1VPS4R7		C507, C508	ECEA1AU101	001 120 2830 5	(EK)		
C309, C310	ECCD1H390K	001 103 0597 0	C509, C510	ECEA1AU101	001 120 2830 5	C531, C532	ECEA1HU010	001 120 2842 1
C311, C312	ECEA1CPS100	001 120 6036 7	C511, C512	ECCD2H330K	001 103 0754 5	C533, C534	ECFTD472XXL	001 108 0746 0
C313, C314	ECQM1H823JZ	001 106 0852 9	C513, C514	ECKD1H561KB	001 103 1576 1	(E, EK, EF)		
C315, C316	ECQM1H153JZ	001 106 0704 0	C515, C516	ECKD1H333PF	001 103 1539 6	(EH, EB, E1)		
C317, C318	ECQM1H183JZ	001 106 0723 7	C517, C518	ECKD1H333PF	001 103 1539 6	(XL, XA)		
C319, C320	ECQM1H182JZ	001 106 0718 4	C519	ECQM1H223JZ	001 106 0739 9	C601	ECEA0JS331	001 120 2975 9
C321, C322	ECKD1H223PF	001 103 1510 9	(E, EG, EF)			C602	ECFTD223KXL	001 108 0342 6
C401, C402	ECEA1HPS3R3	001 120 6064 3	(EH, EB, E1)			C603	ECEA0JU470	001 120 3125 9
C403, C404	ECKD1H271KB	001 103 1515 4	(XL, XA)			C604	ECEA1EU47	001 120 2840 3
C405, C406	ECEA1CPS220	001 120 6060 7	C519	ECQM1H473JZ	001 106 0810 9	C605	ECEA1CU471	001 120 3202 3
C407, C408	ECCD1H820K	001 103 0703 6	(EK)			C701, C702	ECEA1HU3R3	001 120 3254 1
C409, C410	ECCD1H070D	001 103 0274 6	C520	ECQM1H223JZ	001 106 0739 9	C703, C704	ECEA1ES330	001 120 2927 7
C411, C412	ECKD1H681K	001 103 1580 5	(E, EG, EF)			C705, C706	ECEA1HV822UM	001 120 6259 4
C413, C414	ECCD2H070D	001 103 0727 8	(EH, EB, E1)			C708	ECKD2H103PE	001 103 1626 8
C415, C416	ECQM1H102JZ	001 106 0661 4	(XL, XA)			(E, EK, EF)		
C417, C418	ECEA1HU010	001 120 2842 1	C520	ECQM1H473JZ	001 106 0810 9	(EH, EB, E1)		
C419, C420	ECCD2H680K	001 103 0772 3	(EK)			(XL, XA)		
C421, C422	ECCD2H680K	001 103 0772 3	C521, C522	ECQM1H333JZ	001 106 0779 1	C708	ECQE2104KS	001 106 0232 1
C423, C424	ECKD1H333PF	001 103 1539 6	(EG)			(EG)		
C425	ECEA2AU100	001 120 4922 4	C523, C524	ECKD1H102MD	001 103 1424 6	C712	ECKD1H223PF	001 103 1510 9
C426	ECKD1H102KB	001 103 1414 8	(EG)			(EG)		
(EG)			C525, C526	ECQM1H333JZ	001 106 0779 1			

Ref. No.	Part No.	Part Code	Description	Ref. No.	Part No.	Part Code	Description
INTEGRATED CIRCUITS				COILS AND TRANSFORMERS			
IC101	AN6558F	001 060 4009 1	I.C., EQUALIZER	L1	SLQ2650MH49	001 210 7126 1	COIL
IC301	SV1UPC4570C	001 060 8992 7	I.C., EQUALIZER, VOLUME	(EG)			
IC401	AN7062N	001 060 8240 0	I.C., AMP	L101, L102	SLM1Z33	001 210 7084 4	MPX COIL
IC501	SV14004	001 061 1230 5	I.C., POWER AMP, POWER AMP	(EG)			
IC601	AN7073	001 060 8241 9	I.C., PROTECTION	L501, L502	SLQY07G-40	001 211 2149 9	CHOKE COIL
TRANSISTORS				L503, L504	SLQY18G-10	001 211 2185 5	CHOKE COIL
Q401, Q402	2SA1123-R	001 030 0242 8	TRANSISTOR	L505, L506	SLQY07G-40	001 211 2149 9	CHOKE COIL
Q403, Q404	2SC1685-QNC	001 030 2729 2	TRANSISTOR	(EG)			
Q405, Q406	2SC2631-Q	001 030 2505 6	TRANSISTOR	L507, L508	SLQY07G-40	001 211 2149 9	CHOKE COIL
Q407, Q408	2SC3311A-Q	001 030 5279 5	TRANSISTOR	(EG)			
Q409, Q410	2SA1309Q	001 030 4058 0	TRANSISTOR	T1	SLT5N467	001 202 9077 1	POWER TRANSFORMER
Q411, Q412	2SC2631-Q	001 030 2505 6	TRANSISTOR	(E, EG, EF)			
Q413, Q414	2SA1123-R	001 030 0242 8	TRANSISTOR	(EH, EB, E1)			
Q415, Q416	2SC3944AQRS	001 030 5941 8	TRANSISTOR	T1	SLT5N468	001 202 9078 0	POWER TRANSFORMER
Q417, Q418	2SA1535AQRS	001 030 6991 4	TRANSISTOR	(EK)			
Q501, Q502	2SC2631-Q	001 030 2505 6	TRANSISTOR	T1	SLT5N469		POWER TRANSFORMER
Q503, Q504	2SA1123-R	001 030 0242 8	TRANSISTOR	(XA)			
Q505, Q506	2SA992E	001 030 0513 4	TRANSISTOR	FUSES			
Q601	2SA992E	001 030 0513 4	TRANSISTOR	F1	XBA2C20TB0	002 380 1352 0	FUSE, T2A250V
Q602	2SA1309Q	001 030 4058 0	TRANSISTOR	(EK)			
Q701	2SC3944AQRS	001 030 5941 8	TRANSISTOR	F1	XBAS2A2001	002 380 0410 1	FUSE, T2A250V
Q702	2SA1535AQRS	001 030 6991 4	TRANSISTOR	(E, EG, EF)			
Q703	2SC1685-QNC	001 030 2729 2	TRANSISTOR	(EH, EB, E1)			
DIODES				(XL, XA)			
D401, D402	MA167	001 032 4142 5	DIODE	F2	XBA2C40TR0	002 380 0417 4	FUSE, T4A250V
D403, D404	MA29WA	001 032 7250 0	DIODE	(XA)			
D405, D406	MA165	001 032 0494 0	DIODE	SWITCHES			
D407, D408	MA165	001 032 0494 0	DIODE	S1-1, S1-2	SSH656	003 435 5817 2	SWITCH
D409	MA29WA	001 032 7250 0	DIODE	S1-3, S1-4	SSH656	003 435 5817 2	SWITCH
D501, D502	MA4062-M	001 032 7211 7	DIODE	S1-5, S1-6	SSH656	003 435 5817 2	SWITCH
D503, D504	MA167	001 032 4142 5	DIODE	S3	ESA2682	003 439 0120 8	SWITCH
D505	MA29WA	001 032 7250 0	DIODE	S3	ESA3350288	003 439 1919 3	SWITCH
D602, D611	MA4033M	001 032 5623 9	DIODE	S4	SSH2114	003 435 5808 3	SWITCH
D620, D621	MA165	001 032 0494 0	DIODE	S5	SSH1215	003 435 5784 4	SWITCH
D624	SVDSR1K2	001 032 1343 0	DIODE	S6	SSH2114	003 435 5808 3	SWITCH
D701	MA4160M	001 032 5616 8	DIODE, S1	S8	SSH1218	003 435 5984 8	SWITCH
D702	SVDS10VB20F	001 032 1338 7	RECTIFIER	S9-1, S9-2	SSH2115	003 435 5785 3	SWITCH
VARIABLE RESISTORS				S11	ESB8215V	003 435 4958 4	PUSH SWITCH
VR201	EWJXXA090B15	001 174 8555 1	VARIABLE RESISTOR	S701	ESE37263	003 430 2327 2	SWITCH
VR202	EVHYA015G15	001 174 8584 6	VARIABLE RESISTOR	(XA)			
VR301, VR302	EWCRYA023C15	001 174 8586 4	VARIABLE RESISTOR	RELAYS			
VR401, VR402	EVNKGAA00B52	001 180 0496 1	VARIABLE RESISTOR	RL1	SSY126	003 450 2686 0	RELAY
THERMISTORS AND VARISTORS							
TH201, TH202	ERTD2WHL104S		THERMISTOR, THERMISTOR				
TH401, TH402	ERTD2WHL104S		THERMISTOR, THERMISTOR				

EXPLODED VIEW

