

Service Manual

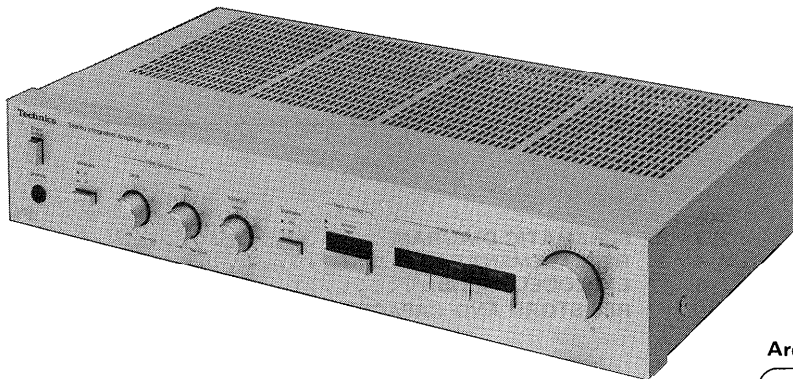
Stereo Integrated Amplifier

SU-Z25

[E],[EG],[EK],[EH],[Ei],
[EB],[EF],[XA],[XL]

SU-Z25(K)

[E],[EG],[EH],[Ei]



- * The cabinet and front panel are available in black color and silver types.
- * The black type model is provided with (K) in the Service Manual.

Areas

- * [E] is available in Switzerland and Scandinavia.
- * [EG] is available in F. R. Germany.
- * [EK] is available in United Kingdom.
- * [EH] is available in Holland.
- * [Ei] is available in Italy.
- * [EB] is available in Belgium.
- * [EF] is available in France.
- * [XA] is available in Southeast Asia, Oceania, Africa, Middle Near East and Central South America.
- * [XL] is available in Australia.

Specifications (Specifications are subject to change without notice for further improvement.)

(DIN 45 500)

■ AMPLIFIER SECTION

20 Hz~20 kHz continuous power output both channels driven	2 × 25W (4Ω) 2 × 25W (8Ω)
40 Hz~16 kHz continuous power output both channels driven	2 × 25W (4Ω) 2 × 25W (8Ω)
1 kHz continuous power output both channels driven	2 × 30W (4Ω) 2 × 30W (8Ω)
Total harmonic distortion	
rated power at 20 Hz~20 kHz	0.05% (4Ω) 0.03% (8Ω)
rated power at 40 Hz~16 kHz	0.05% (4Ω) 0.03% (8Ω)
rated power at 1 kHz	0.01% (4Ω) 0.005% (8Ω)
half power at 20 Hz~20 kHz	0.03% (8Ω)
half power at 1 kHz	0.005% (8Ω)
-26 dB power at 1 kHz	0.01% (4Ω)
50 mW power at 1 kHz	0.01% (4Ω)
Intermodulation distortion	
rated power at 250 Hz: 8 kHz=4:1, 4Ω	0.05%
rated power at 60 Hz: 7 kHz=4:1, SMPTE, 8Ω	0.03%
Power bandwidth	
both channels driven, -3 dB	10 Hz~25 kHz (4Ω) 10 Hz~25 kHz (8Ω)
Residual hum and noise	0.6 mV
Damping factor	20 (4Ω), 40 (8Ω)

Input sensitivity and impedance

PHONO	2.5 mV/47kΩ
TUNER, AUX	150 mV/22kΩ
TAPE	150 mV/22kΩ

PHONO maximum input voltage (1 kHz, RMS) 150 mV
S/N

rated power (4Ω)

PHONO	73 dB (IHF, A: 78 dB)
TUNER, AUX, TAPE	86 dB (IHF, A: 97 dB)

-26 dB power (4Ω)

PHONO	65 dB
TUNER, AUX, TAPE	65 dB

50 mW power (4Ω)

PHONO	62 dB
TUNER, AUX, TAPE	62 dB

Frequency response

PHONO	RIIA standard curve ±0.8 dB (30 Hz~15 kHz)
TUNER, AUX, TAPE	5 Hz~80 kHz (-3 dB)

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

REC OUT 150 mV

Channel balance, AUX 250 Hz~6,300 Hz

±1 dB

Channel separation, AUX 1 kHz

50 dB

Headphones output level and impedance

340 mV/330Ω

Load impedance

4Ω~16Ω

■ GENERAL

Power consumption 260W
Power supply AC 50 Hz/60 Hz, 220V
 (For continental Europe)
 AC 50 Hz/60 Hz, 240V
 (For United Kingdom and Australia)
 AC 50 Hz/60 Hz, 110V/120V/220V/240V
 (For others)

Dimensions (W×H×D) 430 × 86 × 252 mm
 (16-15/16" × 3-3/8" × 9-15/16")
Weight 4.8 kg
 (10.6 lb.)

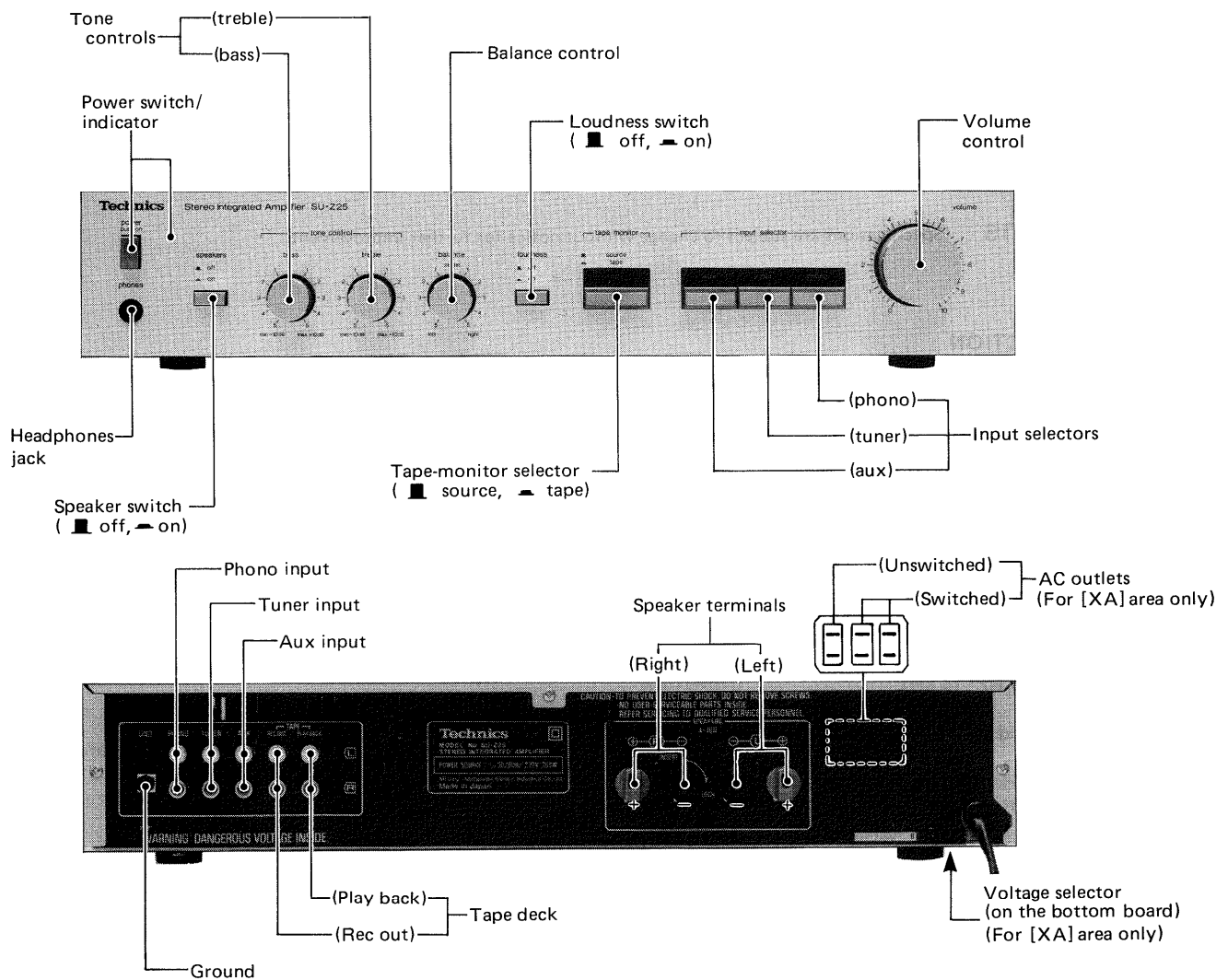
Note:
 Total harmonic distortion is measured by the digital spectrum analyzer (H.P. 3045 system).

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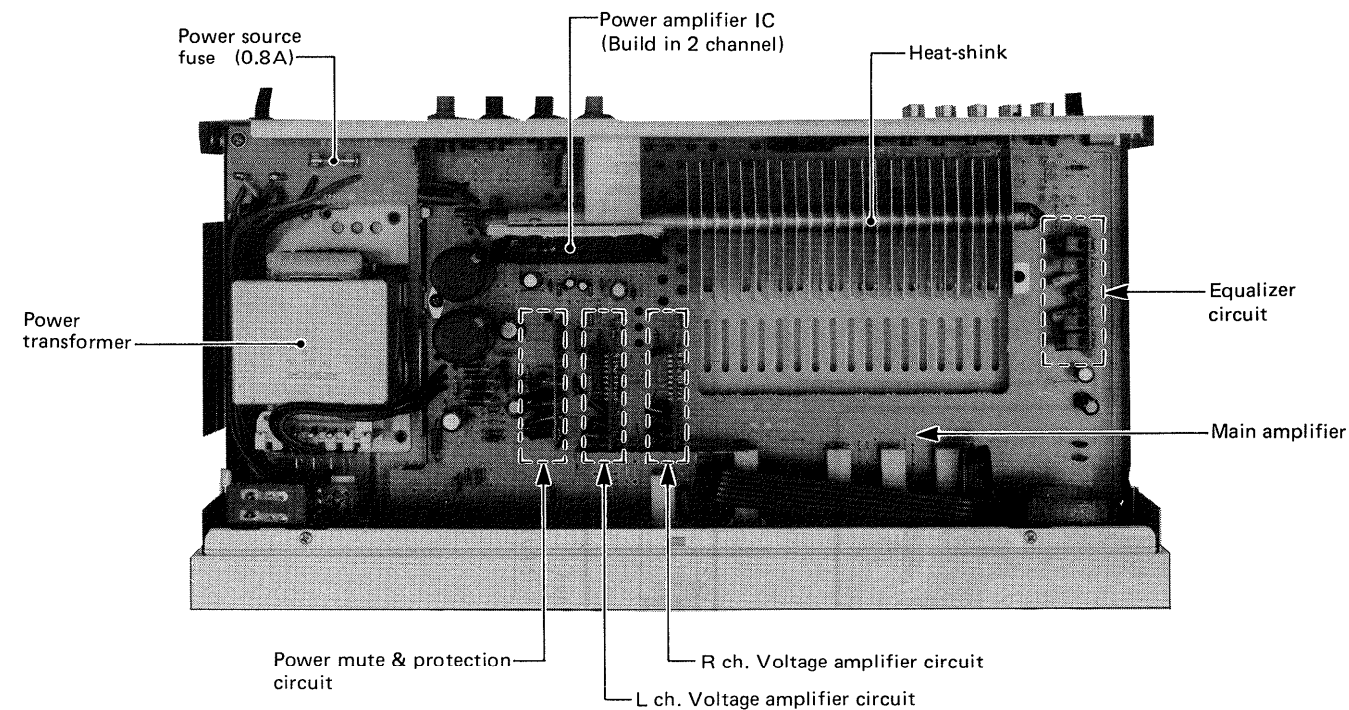
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■ LOCATION OF CONTROLS

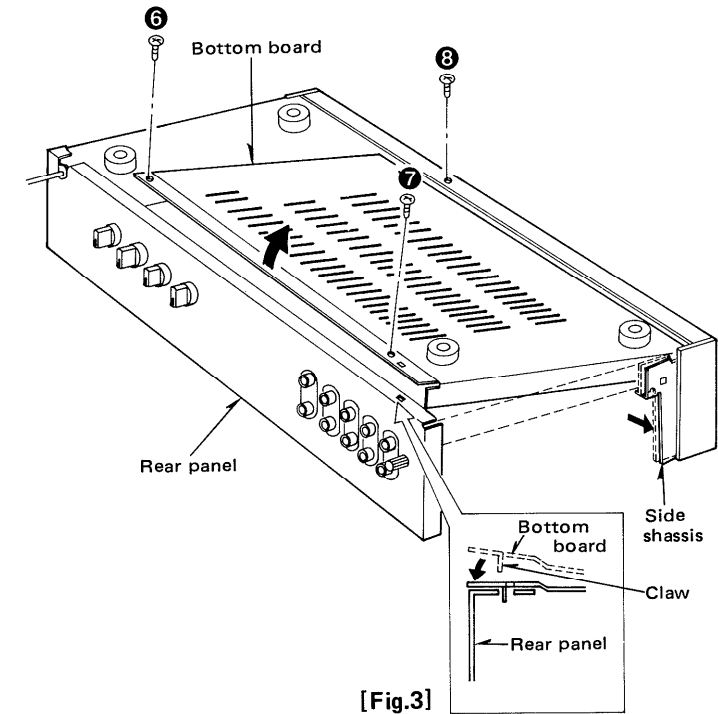


- The power supply for this unit varies depending upon the areas. Also, the parts used for power supply are different. So, refer to the circuit diagram and the replacement parts list.
- * 220V (50/60Hz) for continental Europe.
- * 240V (50/60Hz) for United Kingdom and Australia.
- * 110V/120V/220V/240V (50/60Hz) for other areas.
- [XA area] for other areas is provided with voltage selector and AC outlets.
- * Phono input capacitance is about 150pF.



3. How to the remove the bottom board

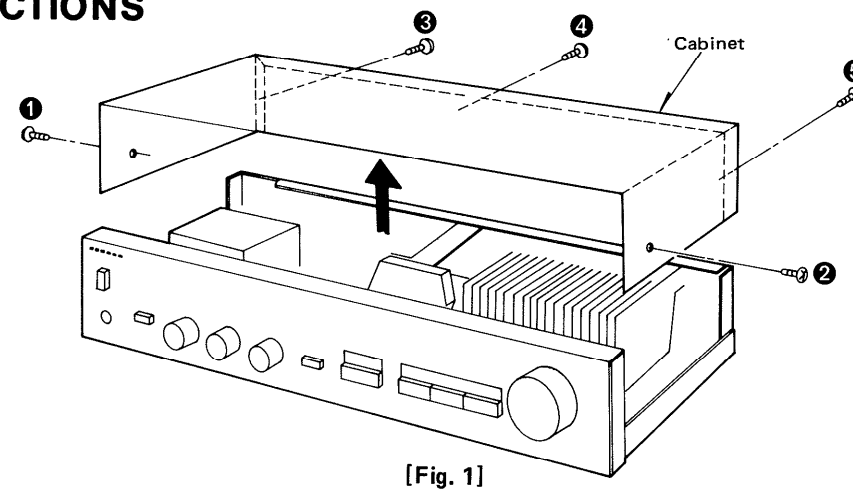
1. Remove the 3 setscrews (Fig. 3: ⑥ ~ ⑧) of the bottom board. Next, slightly widen side chassis to remove the bottom board in the direction of the arrow.
2. When fitting the bottom board, insert the claws of the bottom board into the holes in the rear panel before tightening the setscrews. (Fig. 3)



DISASSEMBLY INSTRUCTIONS

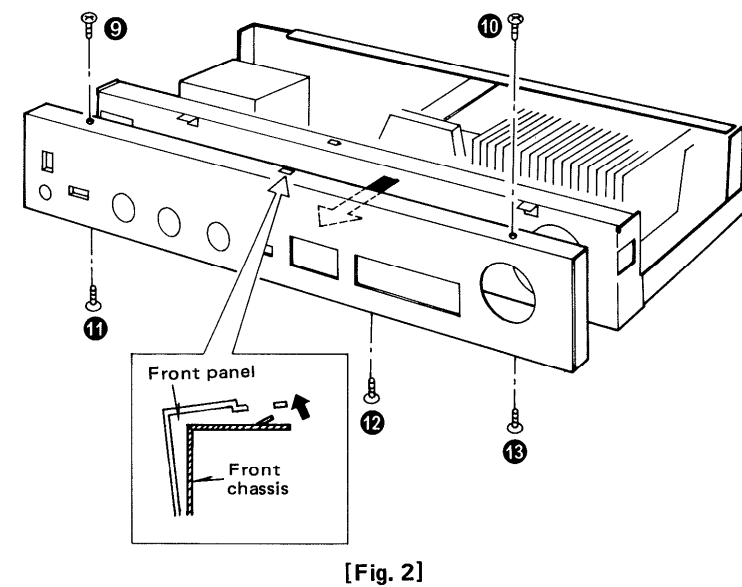
1. How to remove the cabinet

1. Remove the 2 setscrews (Fig. 1: ①, ②) on the side and 3 setscrews (Fig. 1: ③ ~ ⑤) on the back of the cabinet.
2. Remove the cabinet.



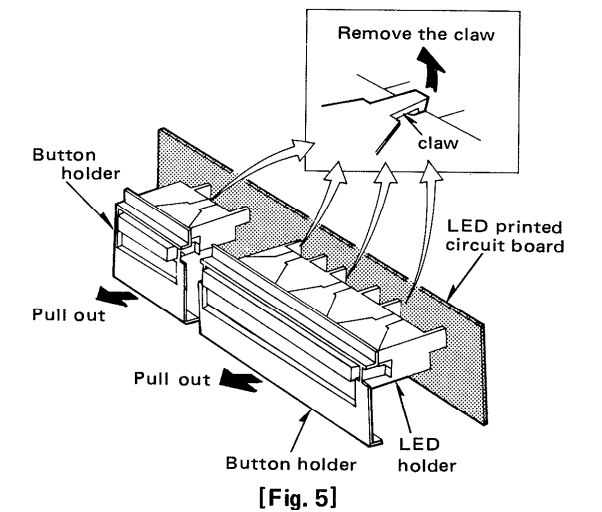
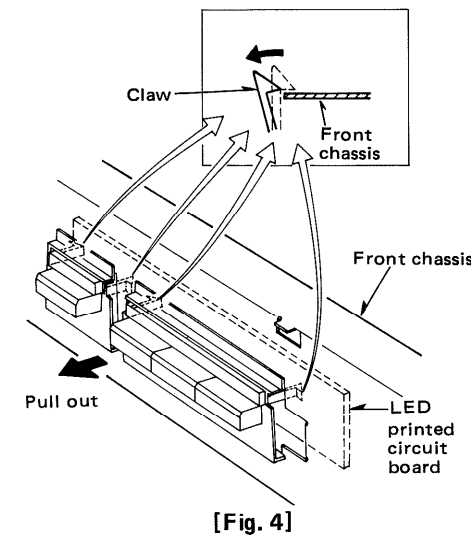
2. How to remove the front panel

1. Remove the cabinet. (Refer to "How to remove the cabinet.")
2. Remove the 5 setscrews (Fig. 2: ⑨ ~ ⑬) of the front panel. The center of the front panel is secured by the claw projected from the front chassis. So, release the front panel from the claw by using a screwdriver to remove it as shown in Fig. 2.



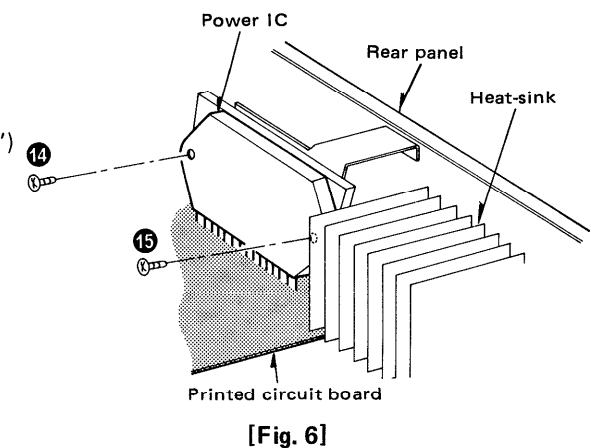
4. How to remove the input selector and tape monitor button.

1. Remove the cabinet and front panel. (Refer to "How to remove the cabinet" and "How to remove the front panel")
2. As in Fig. 4, release the 4 claws of the input selector and tape monitor button sleeves, then draw out the front panel. Next, the button sleeves can be removed by releasing the claw which fastens the LED holder. (Fig. 5)



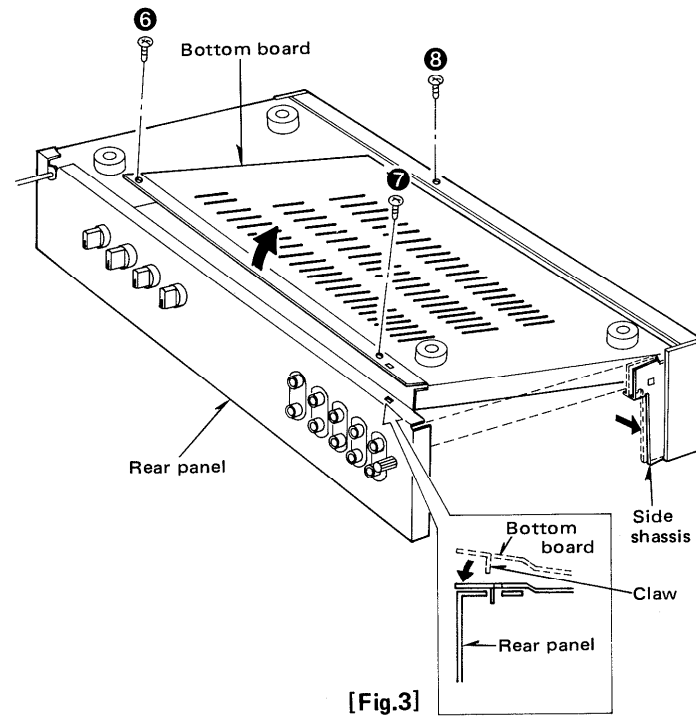
How to remove the power IC

1. Remove the cabinet and bottom board. (Refer to "How to remove the cabinet" and "How to remove the bottom board")
2. Unsolder the power IC.
3. Remove the 2 setscrews (Fig. 6: ⑭, ⑮) used to secure the power IC on the heat-sink, and then pull out the power IC.
4. When installing the power IC, apply heat diffusing agent (silicon powder, etc.) to back side of the IC, and secure it on the heat-sink with setscrews.



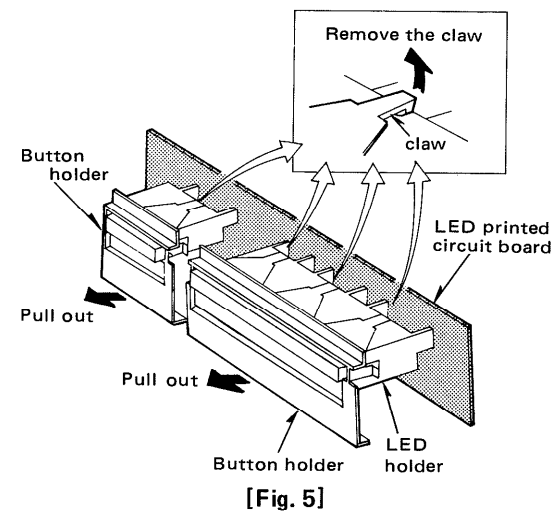
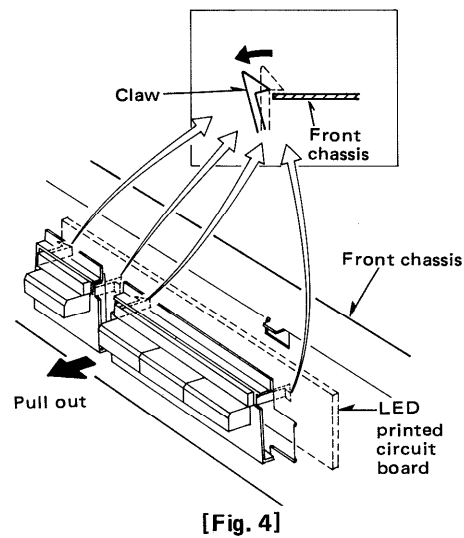
3. How to remove the bottom board

1. Remove the 3 setscrews (Fig. 3: ⑥ ~ ⑧) of the bottom board. Next, slightly widen side chassis to remove the bottom board in the direction of the arrow.
2. When fitting the bottom board, insert the claws of the bottom board into the holes in the rear panel before tightening the setscrews. (Fig. 3)



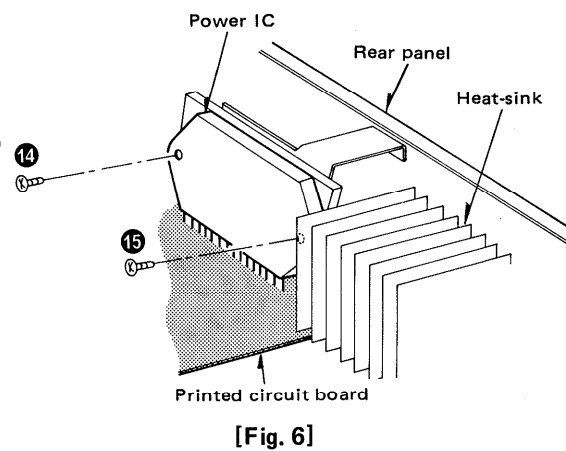
4. How to remove the input selector and tape monitor button.

1. Remove the cabinet and front panel. (Refer to "How to remove the cabinet" and "How to remove the front panel")
2. As in Fig. 4, release the 4 claws of the input selector and tape monitor button sleeves, then draw out the front panel. Next, the button sleeves can be removed by releasing the claw which fastens the LED holder. (Fig. 5)

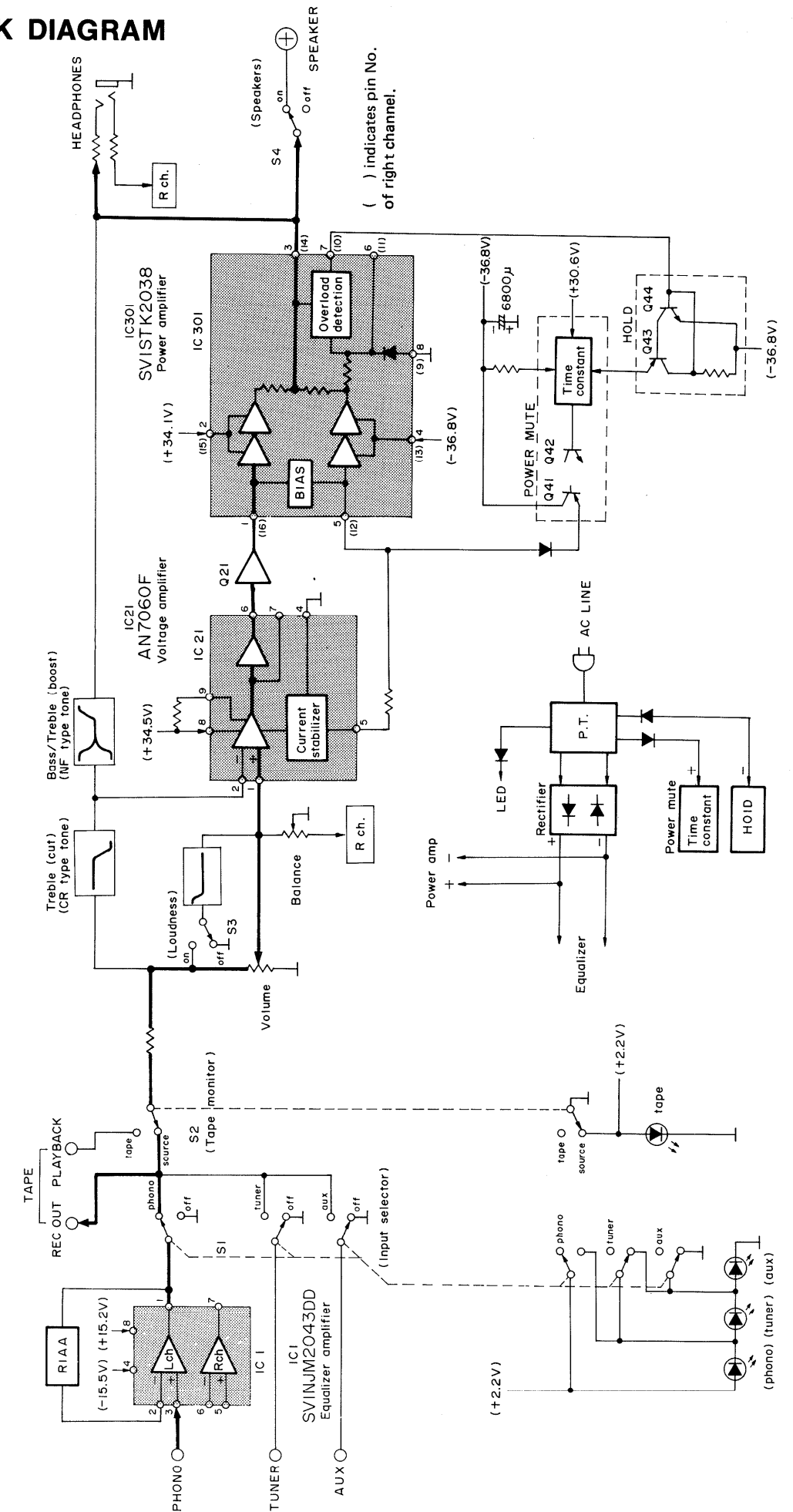


• How to remove the power IC

1. Remove the cabinet and bottom board. (Refer to "How to remove the cabinet" and "How to remove the bottom board")
2. Unsolder the power IC.
3. Remove the 2 setscrews (Fig. 6: ⑭, ⑮) used to secure the power IC on the heat-sink, and then pull out the power IC.
4. When installing the power IC, apply heat diffusing agent (silicon powder, etc.) to back side of the IC, and secure it on the heat-sink with setscrews.

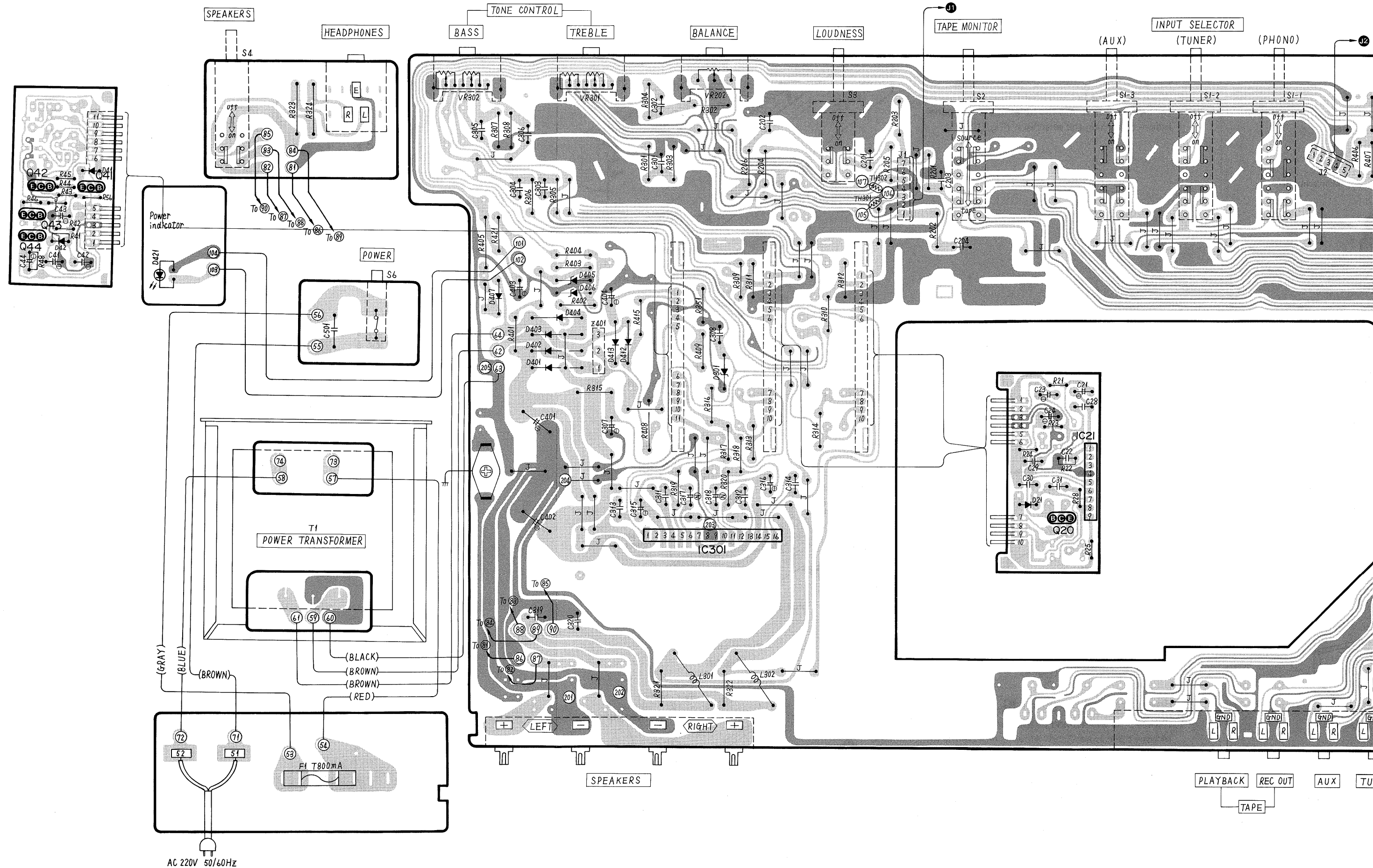


■ BLOCK DIAGRAM

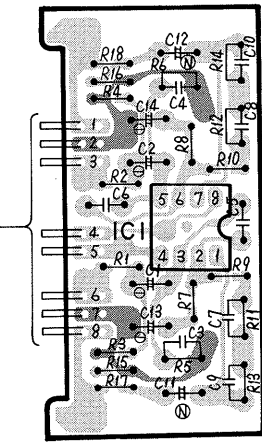
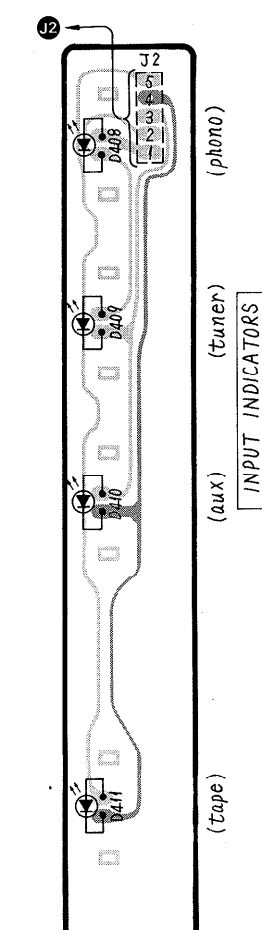
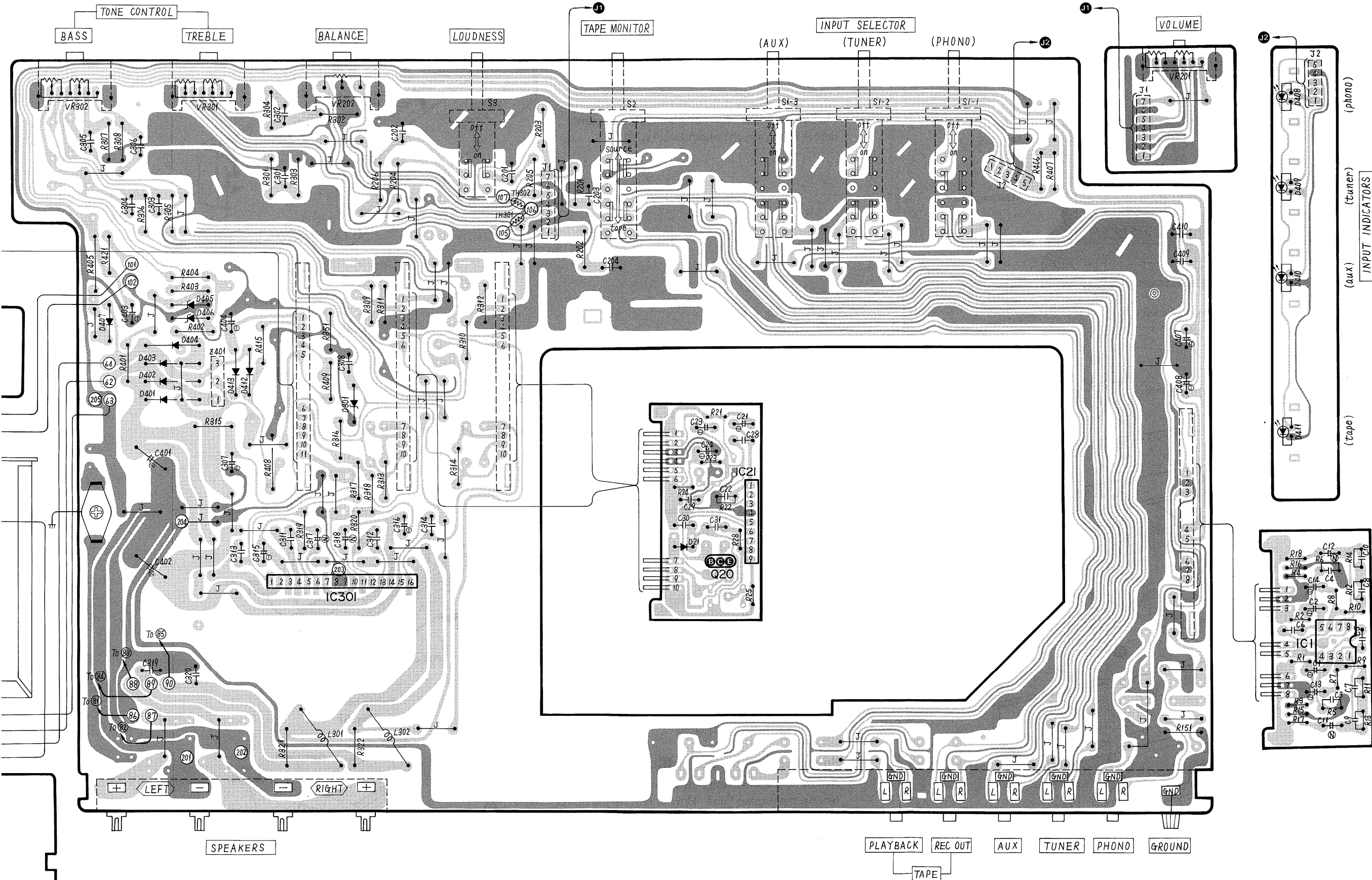


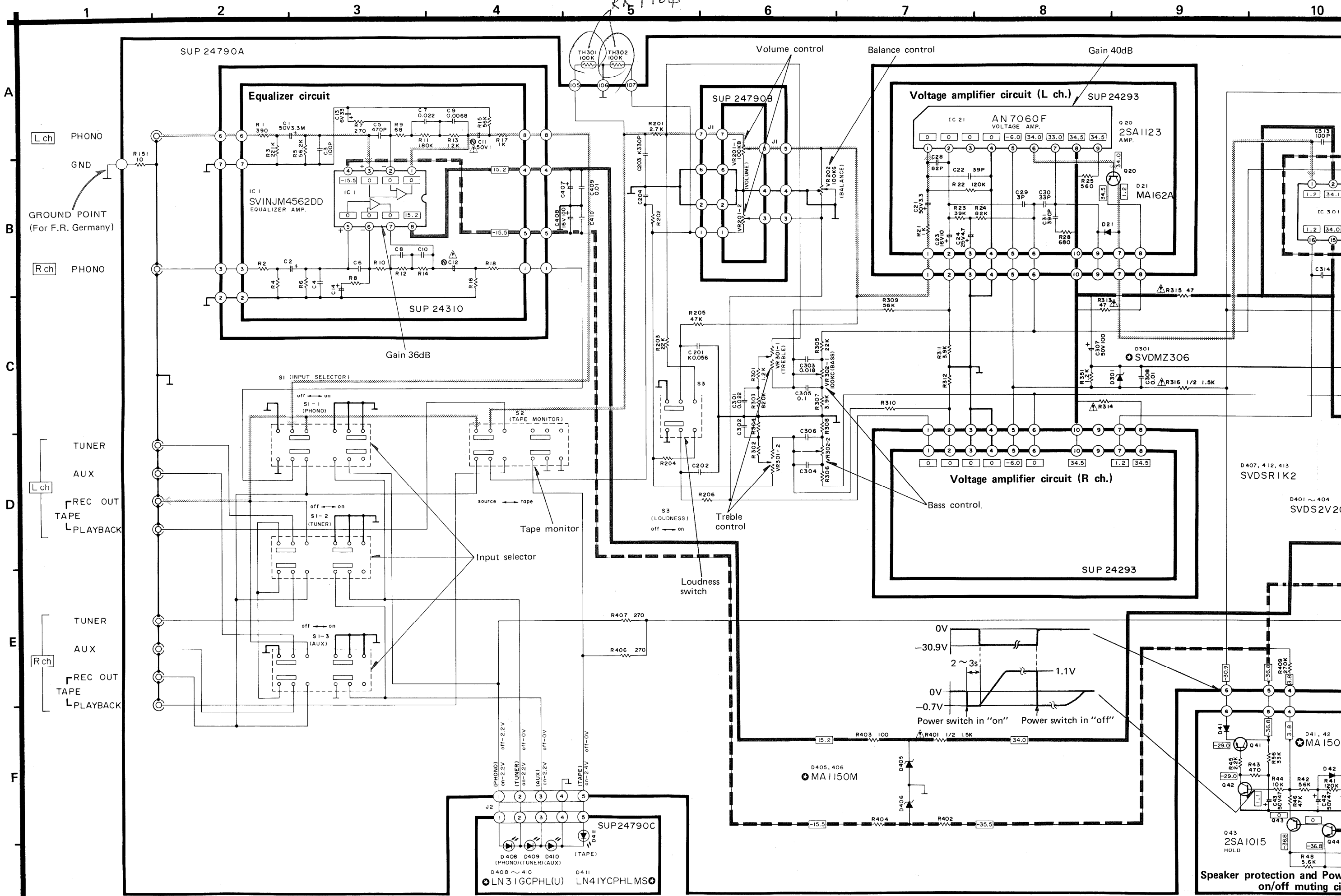
CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM

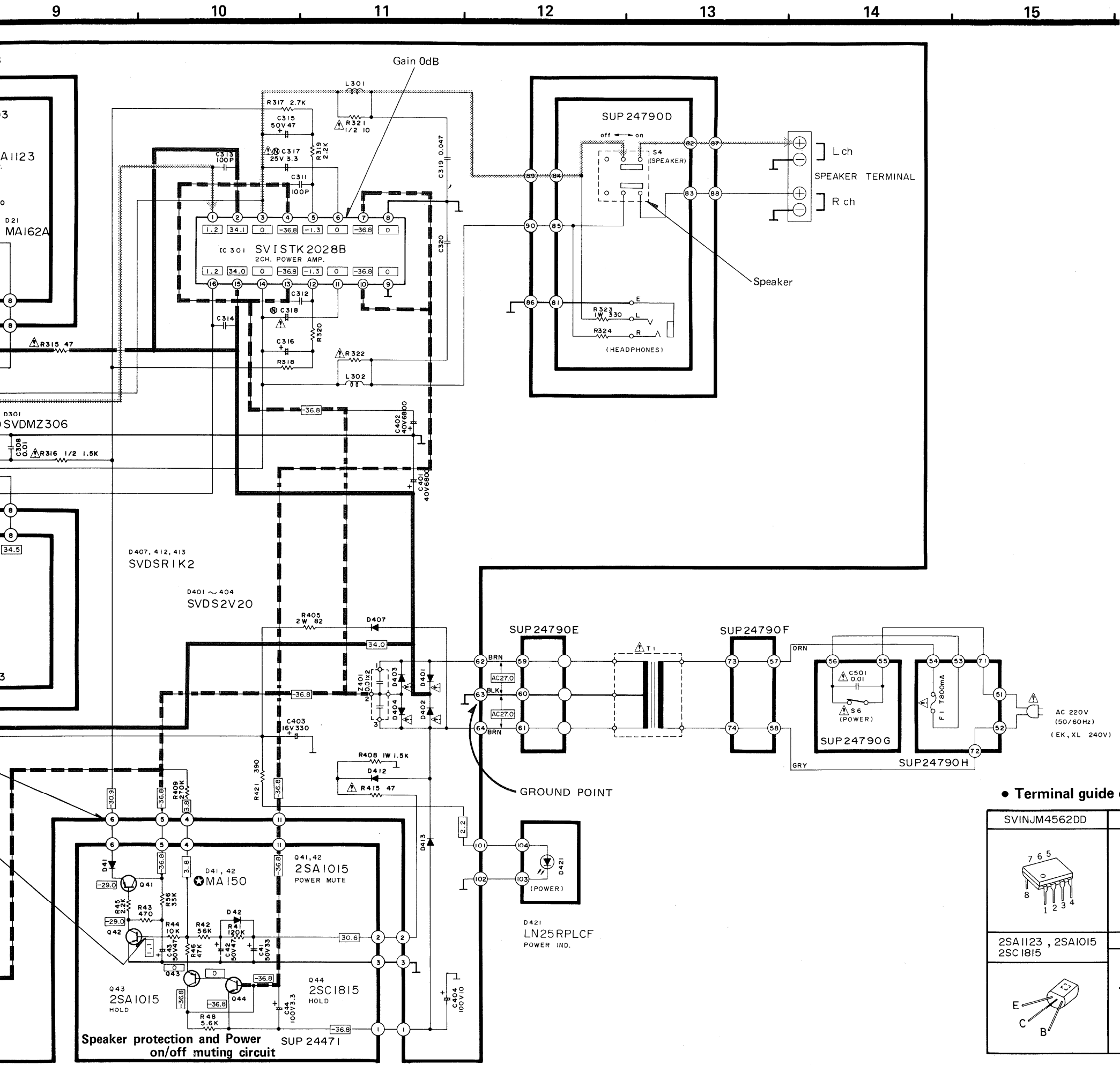
Ground (Earth) circuit



Ground (Earth) circuit







SCHEMATIC DIAGRAM

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

* The part No. of transistors, IC and diodes mentioned in the schematic diagram stand for production part No. Regarding the part No. without Ⓢ mark, the production part No. are different from the replacement part No. Therefore, when placing an order for replacement parts, please use the part No. in the replacement parts list.

Notes:

- This is the basic circuit diagram (For continental Europe) of this unit. Note that part of the circuit is subject to change depending on the areas.
- Regarding the circuits to be changed in the basic circuit diagram (For continental Europe) and related areas [EG], [EF], [XL] and [XA], refer to the separate service manual (Order No. SD82032140C8-A).
- S1-1 ~ S1-3:** Input selector switch in "phono" position.
 [S1-1: phono
 S1-2: tuner
 S1-3: aux]
- S2:** Tape-monitor selector switch in "source" position.
 source ↔ tape
- S3:** Loudness switch in "off" position.
 on ↔ off
- S4:** Speaker switch in "on" position.
 on ↔ off
- S6:** Power switch in "on" position.
- S7:** Voltage selector switch in "240V" position.
 (Product for South East Asia, Oceania, Africa, Middle Near East and Central South America [XA])
 120V ↔ 110V ↔ 220V ↔ 240V
- Same circuit is used for both L and R channels. For the resistance and capacity of R channel (lower of circuit diagram), refer to L channel. For the voltage value, refer to R channel.
- Indicated voltage values are the standard values for 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 lines of left channel
- Positive (+B) voltage lines.
- Negative (-B) voltage lines.
- Important safety notice:
 Component identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
- Description of "GROUND POINT"**
 The GND terminal of the rear panel and the chassis can serve as ground (earth) for signals. However, for direct current, they may sometimes fail to work as ground to check the DC voltage because they are connected to the ground line through 10Ω resistor - except for F.R. Germany [EG]. For DC voltage check, the "GROUND POINT" shown in "Printed circuit board" must be used.

Terminal guide of transistors, IC's and diodes

SVINJM4562DD	AN7060F	SVISTK2028B	SVDMZ306	SVD2V20, SVDSRIK2	LN31GCPHL LN41YCPHL
2SA1123, 2SA1015 2SC1815	MA162A	MA150	MA1150M	LN25PR	
	Black mark 		Mark 		

REPLACEMENT PARTS LIST

- Notes:**
- Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
 - Important safety notice: Componentys identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
 - The "S" mark is service standard parts and may differ from production parts.
 - \square - marked parts are used for black only, whole \circ - marked parts are for silver type only.
 - Parts other than \square - and \circ - marked are used for both black and silver types.

- Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.
- The encircled numbers in the column of description stand for the quantity per set.

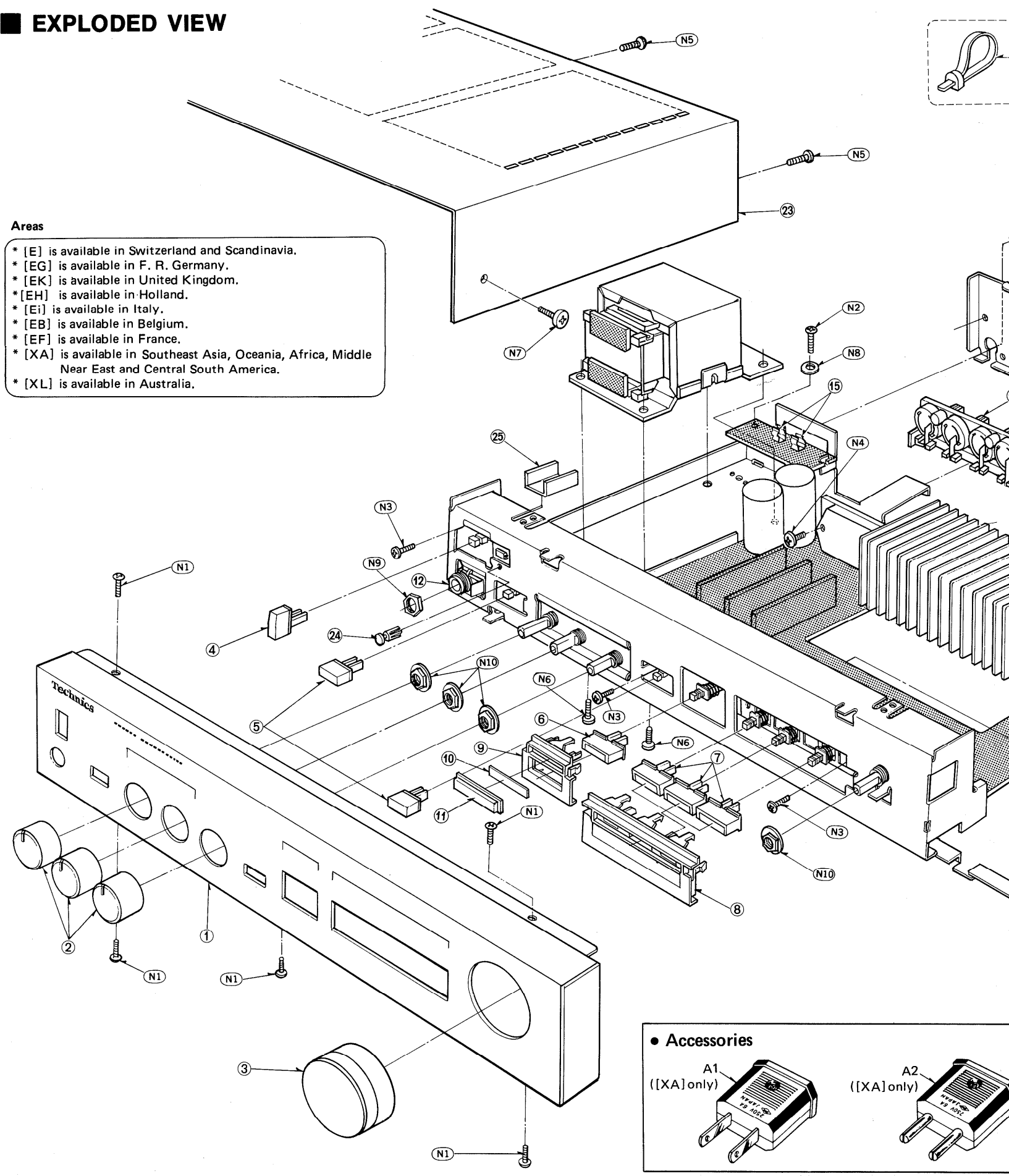
Black type model No. : SU-Z25 (K)

Ref. No.	Part No.	Description
INTEGRATED CIRCUITS		
IC1	SVINJM4562DD	Equalizer Amplifier
IC21	AN7060F	Differential Amplifier
IC301	SVISTK2028B	Power Amplifier
TRANSISTORS		
Q20(X2)	S 2SA1123-R	Pre Drive
Q41. 42. 43	S 2SA1015-Y	Regulator
Q44	S 2SC1815-Y	Muting
DIODES		
D21(X2)	S MA162A	Switching
D41. 42	S MA162A	Switching
D405. 406	S MA1150A	15V. Zener
D301	S RVDEQA0106S	6V. Zener
D401. 402. 403	Δ SVDS2V20	Rectifier
404		
D408. 409. 410	LN31GCPHL	L.E.D.(Input Selector Ind.)
D411	LN41YCPHL	L.E.D.(Tape Monitor Ind.)
D412. 413. 407	SVDSR1K2	Rectifier
D421	S LN25RP	L.E.D.(Power Ind.)
COILES		
L301. 302	SLQY15G-30	Choke
L303. 304(EG)only	SLQY07G-30	Choke
L101. 102. 103	ELQS181KB	Choke
104	[EG] only	
TRANSFORMERS		
T1 (EK. XL)	Δ SLT5M215-W	Power Transformer
T1 (XA)	Δ SLT5M217-W	Power Transformer
T1 (Other Areas)	Δ SLT5M213-W	Power Transformer
COMPONENT COMBINATION		
Z401	SXRFS203ZSM	Component Combination, 0.01 μ F \times 2
FUSE		
F1	Δ XBA2C08TRO	250V, 800mA
VARIABLE RESISTORS		
VR201	EWCSXA020B15	Volume Control, 100k Ω (B)
VR202	EWHFNAF20G15	Balance Control, 100k Ω (G)
VR301	EWCS5AF20012	Treble Control, 100k Ω (C)
VR302	EWCSWAF20C15	Bass Control, 100k Ω (C)
SWITCHES		
S1	SSH3033	Input Selector
S2	SSH1045	Tape Selector
S3	SSH165	Loudness
S4	SSH104	Speakers
S6 (E. EK)	Δ ESB822S	Power
S6 (XA. EG)	Δ ESB90217S	Power
S6 (Other Areas)	Δ SSH1057	Power
S7	Δ ES37219	Voltage Adjuster

Ref. No.	Part No.	Description & Pcs
CABINET and CHASSIS PARTS		
1	\circ SYW571	Panel, Front A'ssy (Silver) ①
1	\square SYW571-1	Panel, Front A'ssy (Black) ①
2	SBN1113	Knob, Bass, Treble, Balance ③
3	SBN1125	Knob, Main ①
4	SBC337-1	Button, Power ①
5	SBC433-1	Button, Speaker, Loudness ②
6	SBC445	Button, Tape ①
7	SBC443	Button, Selector ③
8	\circ SGXUZ45E	Holder (Silver) ①
8	\square SGXUZ45KE	Holder (Black) ①
9	\circ SGX7329	Holder (Silver) ①
9	\square SGX7329-1	Holder (Black) ①
10	SDU129	Filter ①
11	SGU285	Transparent Plate ①
12	SJJ71B	Jack, Headphone ①
13	SKU9950	Bottom Board ①
14	SKL249	Foot ④
15	SJT347	Clip Fuse ②
16	SJF4433	Terminal Speaker ①
17	SJF3051-4N	Terminal Input ①
18	SMP323-1	Holder Tape ①
19	SMP321-1	Holder Selector ①
20 (XA)	SGP3150-1A	Panel, Rear ①
20 (XL)	SGP3150-2A	Panel, Rear ①
20 (E)	SGP3150A	Panel, Rear ①
20 (EK)	SGPUZ25E	Panel, Rear Ass'y ①
20 (Other Areas)	SGP3150B	Panel, Rear ①
21 (EK)	Δ QFC1205M	AC Cord ①
21 (XA)	Δ SJA111	AC Cord ①
21 (XL)	Δ QFC1207MA	AC Cord ①
21 (Other Areas)	Δ SJA88	AC Cord ①
22 (EK)	SHR129	Bushing, AC Cord ①
22 (XL)	SHR131	Bushing, AC Cord ①
22 (Other Areas)	SHR127	Bushing, AC Cord ①
23	\circ SKC1050S1	Cabinet, (Silver) ①
23	\square SKC1050BB1	Cabinet, (Black) ①
24	SHR401-1	Latch ①
25 (EG, XA)	SMX453	Cover ①
25 (Other Areas)	SMX609	Cover ①
26 (XA)	Δ SJS601-2	Socket ①
27	SHR301	Clamper ①

Ref. No.	Part No.	Description & Pcs
SCREWS		
N1	XTBS3+8BFZ1	Tapping, \oplus 3 \times 8 ⑩
N2	S XTB3+10B	Tapping, \oplus 3 \times 10 ④
N3	S XSN3+6S	\oplus 3 \times 6 ④
N4	S XTB3+16BFN	Tapping, \oplus 3 \times 16 ②
N5	\circ S XTB3+8BFN	Tapping, \oplus 3 \times 8 ③
N5	\square S XTB3+8BFZ	Tapping, \oplus 3 \times 8 ③
N6	S XTB4+10BFZ	Tapping, \oplus 4 \times 10 ④
N7	\circ SNE2095-2	Cabinet ②
N7	\square SNE2095-3	Cabinet ②
WASHERS		
N8	XWG3	Plain, ϕ 3 ⑤
NUTS		
N9	XNS12	ϕ 12, Head Phone ①
N10	SNE4021	Volume, Tone Control ④
ACCESSORIES		
A1 (XA)	Δ SJP5213-1	Plug ①
A2 (XA)	Δ SJP5215	Plug ①
A4 (E, EH, EB)	SQF11201	Instructions Book ①
A4 (EG)	SQF11203	Instructions Book ①
A4 (EK, XL)	SQF11205	Instructions Book ①
A4 (EF)	SQF11207	Instructions Book ①
A4 (XA)	SQF11209	Instructions Book ①
A4 (E)	SQF11361	Instructions Book ①
PACKING PARTS		
P1 (EK)	\circ SPG3887	Carton Box ①
P1 (EF)	Δ SPG3889	Carton Box ①
P1 (E)	\circ SPG3891	Carton Box ①
P1 (XL)	\circ SPG3893	Carton Box ①
P1 (Other Areas)	SPG3885	Carton Box ①
P1 (E, EH, E)	\square SPG3987	Carton Box (Black) ①
P1 (EG)	\square SPG3989	Carton Box (Black) ①
P2	SPS3657	Pad, Left ①
P2 (XL) Only	SPS3657-1	Pad, Left ①
P3	SPS3659	Pad, Right ①
P3 (XL) Only	SPS3659-1	Pad, Right ①
P4	\circ SPP699	Polyethylene Bag (Silver) ①
P4	\square SPP649	Polyethylene Bag (Black) ①

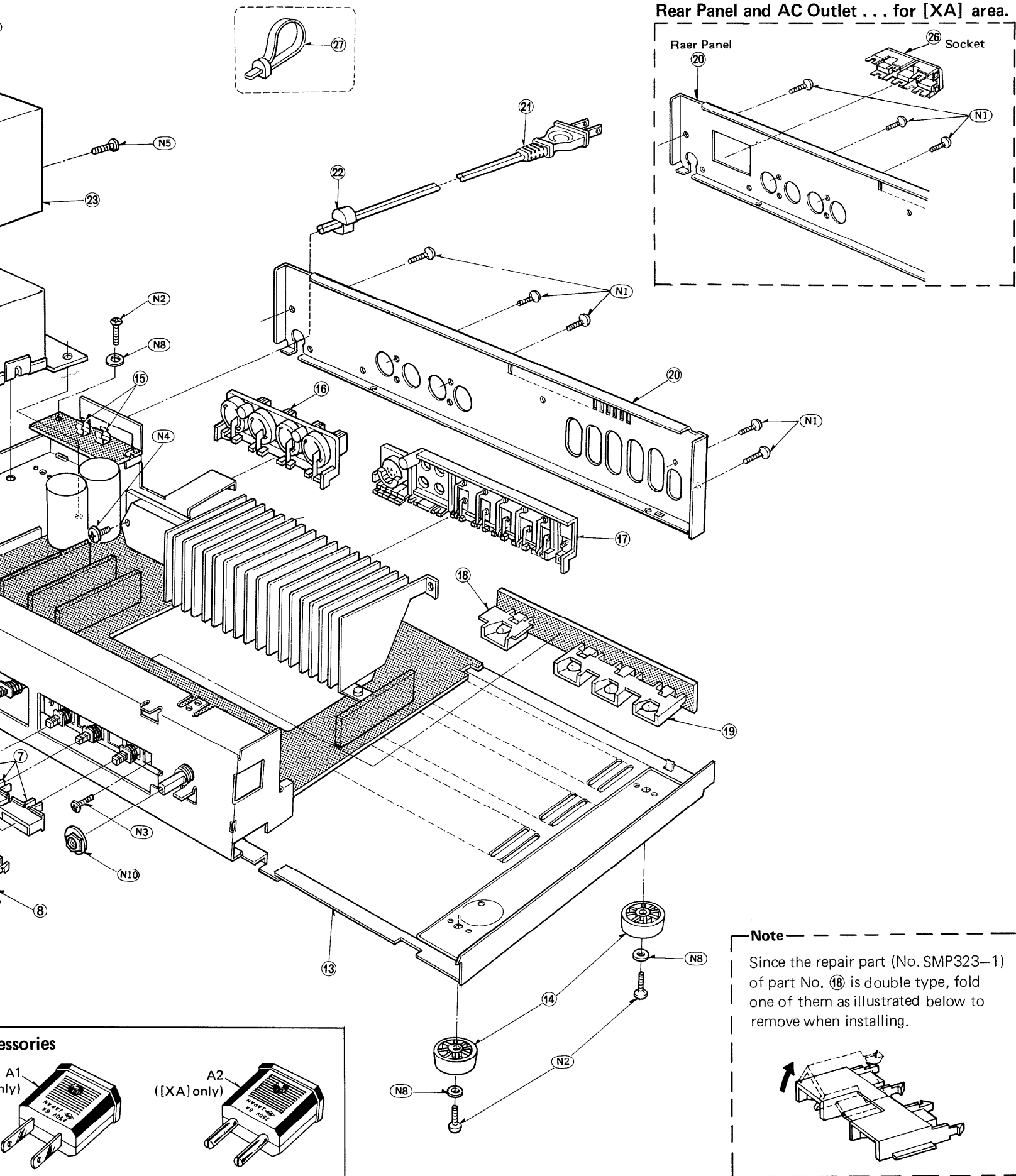
EXPLODED VIEW



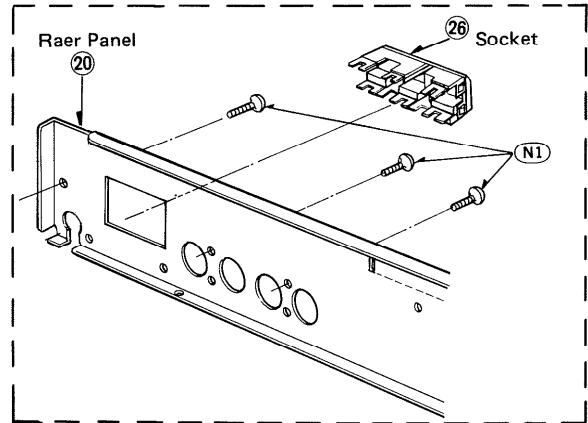
Areas

- * [E] is available in Switzerland and Scandinavia.
- * [EG] is available in F. R. Germany.
- * [EK] is available in United Kingdom.
- * [EH] is available in Holland.
- * [Ei] is available in Italy.
- * [EB] is available in Belgium.
- * [EF] is available in France.
- * [XA] is available in Southeast Asia, Oceania, Africa, Middle Near East and Central South America.
- * [XL] is available in Australia.

TH 20. 302 RR T104



Rear Panel and AC Outlet . . . for [XA] area.



RESISTORS & CAPACITORS

- Notes:**
1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
 2. 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.
 3. Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.
 4. The "S" mark is service standard parts and may differ from production parts.
 5. Unless otherwise specified. All resistors are in OHMS (Ω) K = 1000 Ω , M = 1000k Ω . All capacitors are in MICROFARADS (μ F) P = μ μ F

Numbering System of Resistor

Example

ERD	25	F	J	101
Type	Wattage	Shape	Tolerance	Value
ERD	Carbon	10	1/8W	G : \pm 2%
ERG	Metal Oxide	25	1/4W	J : \pm 5%
ERO	Metal Film	1	1W	S1 : 1/2W

ERD10TLJ□□□□ → Chip type carbon
 ERO10MKG□□□□ → Chip type metal film

Numbering System of Capacitor

Example

ECKD	1H	103	Z	F	ECEA	50	M	R47	R
Type	Voltage	Value	Tolerance	Peculiarity	Type	Voltage	Peculiarity use	Value	Special use

Capacitor Type	Voltage		Tolerance	
	ECEA Type	Others		
ECEA	: Electrolytic	1A : 10V	1H : 50V DC	C : \pm 0.25pF J : \pm 5% K : \pm 10% M : \pm 20% Z : +80%, -20% P : +100%, -0%
ECEA...N	: Non Polar Electrolytic	1C : 16V	2H : 500V DC	
ECCD	: Ceramic	1E : 25V	MY : 125V AC	
ECKD	: Ceramic	1V : 35V	KC : 400VAC	
ECQM	: Polyester	1H : 50V	2A : 250VAC	
ECQE	: Polyester	1J : 63V		
ECET	: Electrolytic	50 : 50V		
		25 : 25V		
		2A : 100V		

Ref. No.	Part No.	Value	Ref. No.	Part No.	Value	Ref. No.	Part No.	Value	Ref. No.	Part No.	Value	
RESISTORS			R201, 202			CAPACITORS						
R1, 2	ERD10TLJ391U	390	(Except for [EG])	ERD25FJ272	2.7K	C1, 2	S ECEA50M3R3R	3.3	C391, 392	S ECKD1H103ZF	0.01	
R3, 4	ERO10MKG2213	221K	[EG] only	ERD25FJ122	1.2K	C3, 4	S ECCD1H101K	100P	(for [EG] only)	ECKD1H472ZF	0.0047	
R5, 6	ERO10MKG5622	56.2K	R201, 202	ERD25FJ122	1.2K	C5, 6	S ECKD1H471KB	470P	C393	(for [EG] only)	ECKD1H333ZF	0.033
R7, 8	ERD10TLJ271U	270	[EG] only	ERD25TJ223	22K	C7, 8	S ECQM1H223JZ	0.022	C394, 395	(for [EG] only)		
R9, 10	ERD10TLJ680U	68	R203, 204	S ERD25TJ473	47K	C9, 10	S ECQM1H682JZ	0.0068				
R11, 12	ERD10TLJ184U	180K	R205, 206	S ERD25TJ473	47K	C11, 12	Δ ECEA1HN010S	1				
R13, 14	ERD10TLJ123U	12K	R301, 302	S ERD25FJ122	1.2K	C13, 14	S ECEA1CS330	33	C401, 402	ECETS40V682U	6800	
R15, 16	ERD10TLJ563U	56K	R303, 304	S ERD25TJ824	820K	(C21) x 2	S ECEA50Z3R3	3.3	C403	S ECEA1CS331	330	
R17, 18	ERD10TLJ102U	1K	R305, 306	S ERD25TJ223	22K	(C22) x 2	S ECCD1H390K	39P	C404	S ECEA2AS100	10	
(R21) x 2	ERD10TLJ102U	1K	R307, 308	S ERD25FJ392	3.9K	(C23) x 2	S ECEA1HS100	10	C407, 408	S ECEA1ES101	100	
(R22) x 2	ERD10TLJ124U	120K	R309, 310	S ERD25TJ563	56K				C409, 410	S ECKD1H103ZF	0.01	
(R23) x 2	ERD10TLJ393U	39K	R311, 312	S ERD25FJ392	3.9K	(C24) x 2	S ECEA25Z4R7	4.7	C501 (Except Δ	ECKDKC103PF	0.01	
(R24) x 2	ERD10TLJ823U	82K	R313, 314	Δ S ERD25FJ470	47	(C26) x 2	S ECKD1H681KB	680P	for [EG] and [XA])			
(R25) x 2	ERD10TLJ561U	560	R315	Δ S ERD25FJ470	47	(C28) x 2	S ECCD1H820K	82P				
(R28) x 2	ERD10TLJ681U	680	R316	Δ S ERD1FJ152	1.5K	(C29) x 2	S ECCD1H030CC	3P				
R41	ERD10TLJ124U	120K	R317, 318	S ERD25FJ272	2.7K	(C30) x 2	S ECCD1H330K	33P				
R42	ERD10TLJ563U	56K	R319, 320	S ERD25FJ222	2.2K	(C31) x 2	S ECKD1H391KB	390P				
R43	ERD10TLJ471U	470	R321, 322	Δ ERD1FJ100	10	C41	S ECEA1JS330	33				
R44	ERD10TLJ103U	10K	R323, 324	S ERG1ANJ331	330	C42, 43	S ECEA1JS470	47				
R45	ERD10TLJ222U	2.2K	R351	S ERD25FJ122	1.2K	C44	S ECEA2AS3R3	3.3				
R46	ERD10TLJ473U	47K	R401, 402	Δ ERD1FJ152	1.5K	C101, 102	S ECCD1H180KC	18P				
R48	ERD10TLJ562U	5.6K	R403, 404	S ERD25FJ101	100	[EG] only						
R56	ERD10TLJ333U	33K	R405	S ERG2ANJ820	82	C201, 202	ECQM1H563KV	0.056				
R101, 102	S ERD25FJ391	390	R406, 407	S ERD25FJ271	270	C203, 204	ECKD1H331KB	330P				
[EG] only			R408	S ERG1ANJ152	1.5K	(Except for [EG])						
R103, 104	S ERD25FJ272	2.7K	R409	S ERD25TJ274	270K	C301, 302	S ECQM1H223JZ	0.022				
[EG] only			R415	Δ S ERD2FCG470	47	C303, 304	S ECQM1H183JZ	0.018				
R105, 106	S ERD25FJ222	2.2K	R421	S ERD25FJ391	390	C305, 306	S ECQM1H104KV	0.1				
[EG] only						C307	S ECEA1HS101	100				
R107, 108	S ERD25FJ222	2.2K				C308	S ECKD1H103ZF	0.01				
[EG] only						C311, 312	S ECCD1H101K	100P				
R109, 110	S ERD25FJ222	2.2K				C313, 314	S ECCD1H101K	100P				
[EG] only						C315, 316	S ECEA1HS470	47				
R151 Exsept for [EG]	S ERD25FJ100	10				C317, 318	Δ ECEA1EN3R3S	3.3				
						C319, 320	S ECQM1H473KV	0.047				

Note
 Since the repair part (No. SMP323-1) of part No. (18) is double type, fold one of them as illustrated below to remove when installing.

