

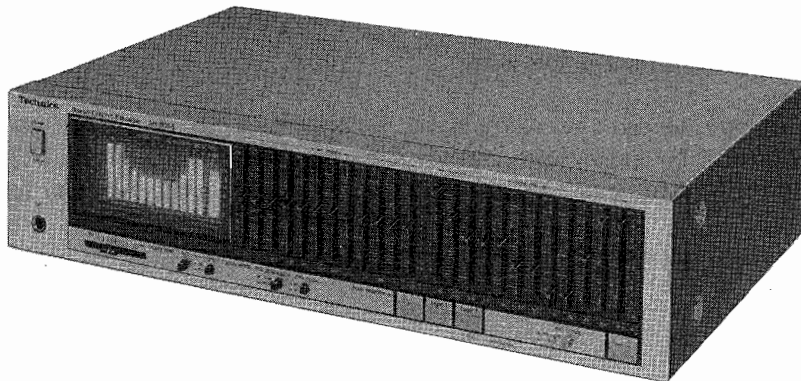
Service Manual

Stereo Graphic Equalizer

SH-8055

[E],[EK],[EF],[EB],[EH],[EGA],
[XA],[XL],[PA],[PE],[Ei]

SH-8055(K)

[E],[EK],[EF],[EB],[EH],
[EGA],[XA],[XL]

Areas

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

- * The colors of this model include silver and black.
- * The black type model is provided with (K) in the Service Manual.

Specifications

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

(DIN 45 500)

Frequency response (center position)	: 5 Hz~100 kHz, -1 dB
Maximum output voltage	: 8 V (1 kHz, THD 0.01%)
Rated output vc	V
Rated total harr distortion	003% (20 Hz~20 kHz) 002% (1 kHz)
Input sensitivity	V
Signal-to-noise	32 dB (110 dB, IHF' A)
Maximum input voltage	V (1 kHz)
Input impedanc	7 kΩ
Gain	±1 dB
Channel balanc	
250 Hz~6300	0.5 dB
Channel separa	
1 kHz	: 70 dB

Band level controls	: +12 dB~-12 dB (12 elements continuously variable per channel)
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Center frequency	: 25 Hz, 40 Hz, 63 Hz, 100 Hz, 160 Hz, 250 Hz, 500 Hz, 1 kHz, 2 kHz, 4 kHz, 8 kHz, 16 kHz
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Pink noise output voltage	: 50 mV
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Compatible microphone sensitivity	: above -74 dBV/μbar (1 kHz)
Microphone attenuator	: -20 dB

GENERAL

Power supply	: AC 110 V/120 V/220 V/240 V, 50 Hz/60 Hz.
Power consumption	: 17 W
Dimensions	: 108×430×270 mm (4-1/4"×16-15/16"×10-5/8") : 4.1 kg (9.0 lb)

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Technics

Panasonic
Matsushita Electric
1-2, 1-chome, Shiba-koen

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

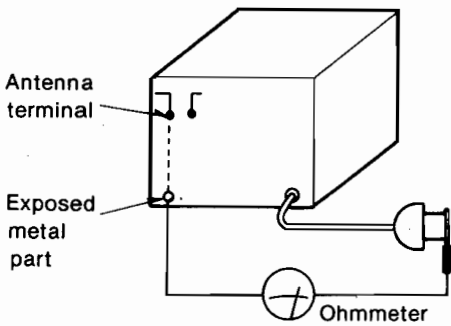
SAFETY PRECAUTIONS

- 1. Before servicing, unplug the power cord to prevent an electric shock.
- 2. When replacing parts, use only manufacturer's recommended components for safety.
- 3. Check the condition of the power cord. Replace if wear or damage is evident.
- 4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
- 5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

INSULATION RESISTANCE TEST

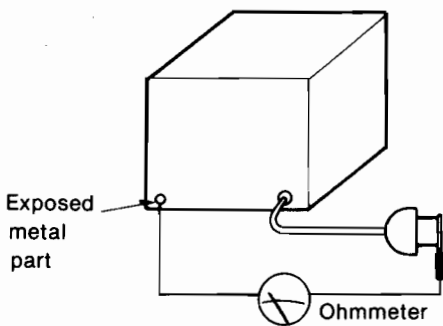
- 1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
- 2. Turn on the power switch.
- 3. Measure the resistance value with ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between 3MΩ and 5.2MΩ to all exposed parts. (Fig. A) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig. B)

Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.



(Fig. A)

Resistance = 3MΩ—5.2MΩ

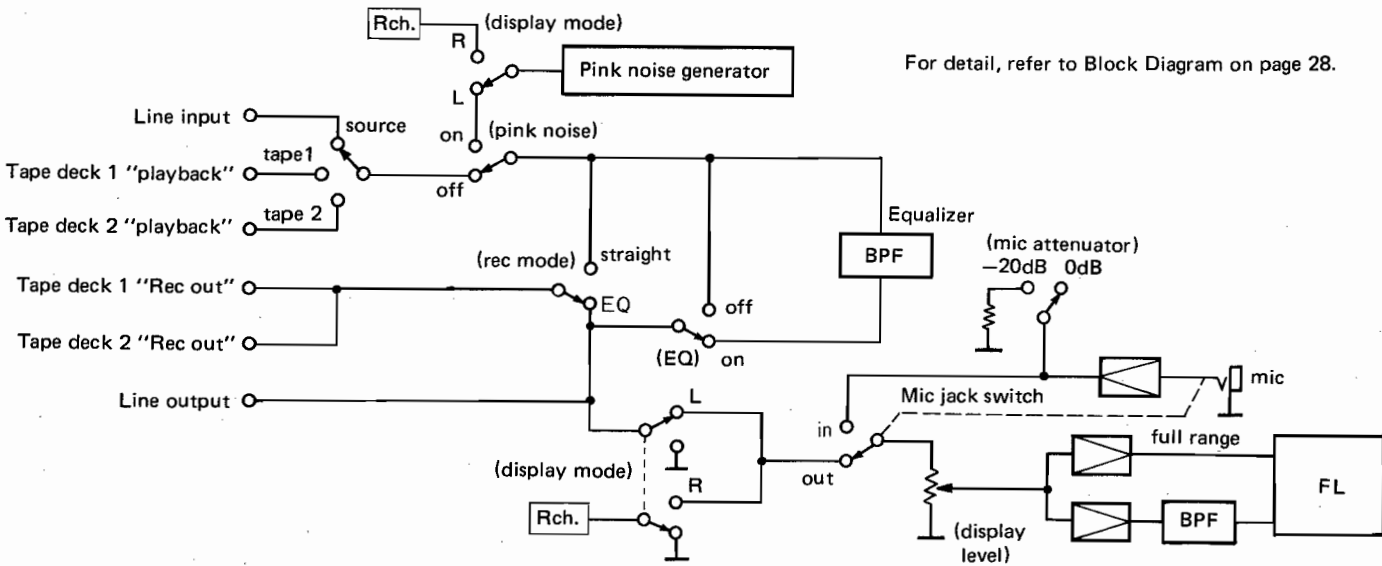


(Fig. B)

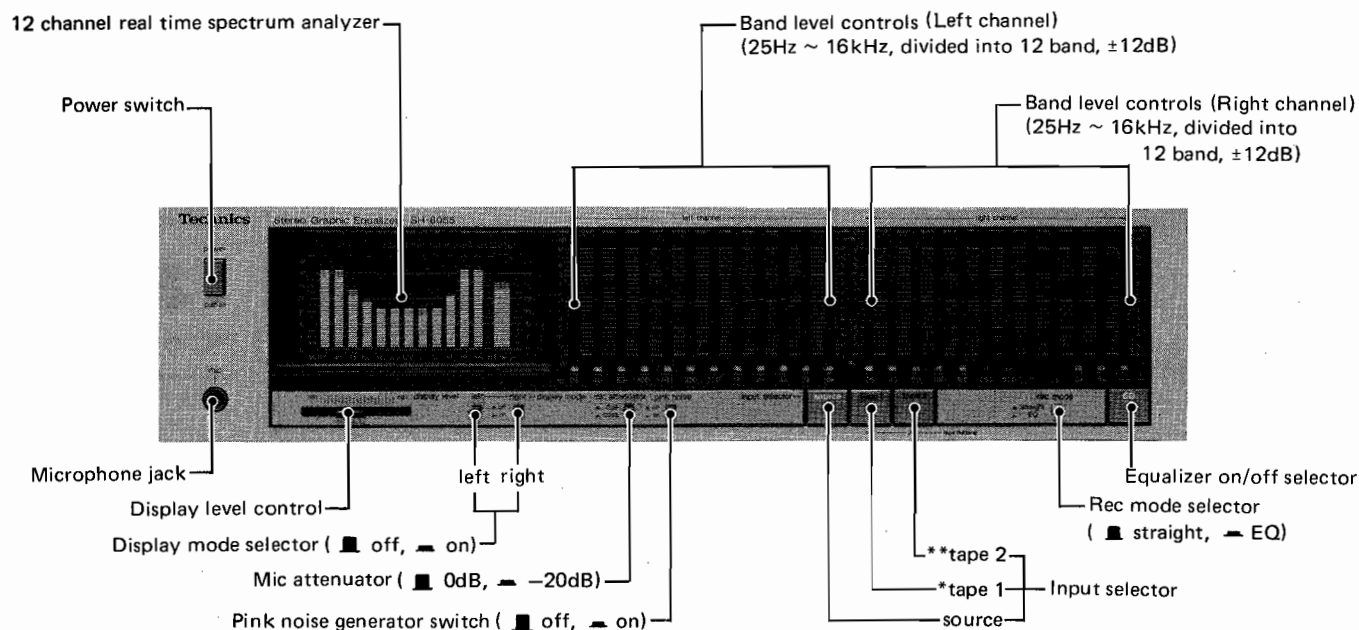
Resistance = Approx ∞

- 4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

BLOCK DIAGRAM OF FUNCTION

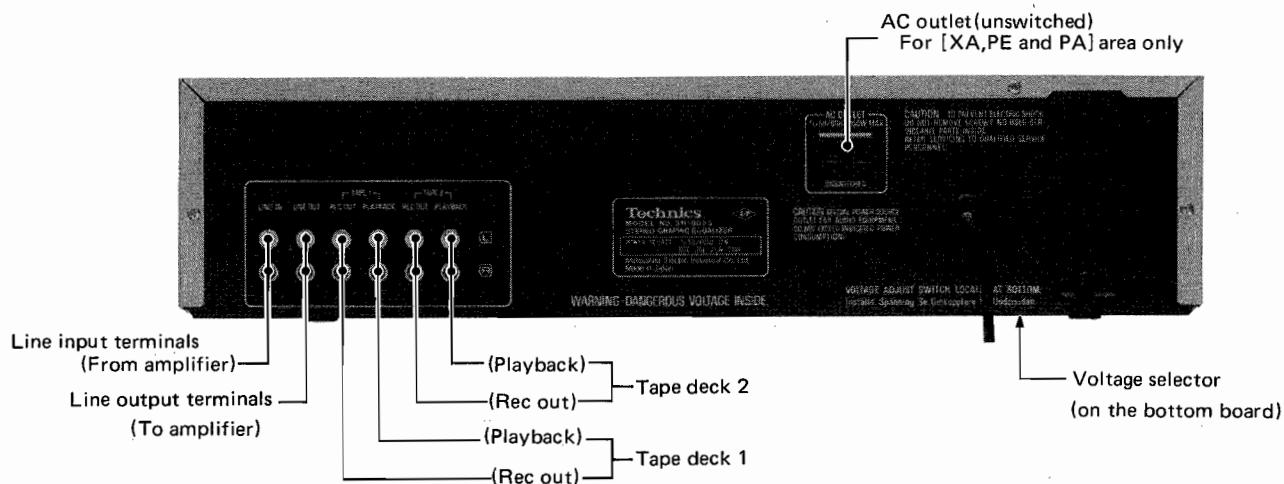


LOCATION OF CONTROLS



* Mic Jack of this unit is not for mixing.

* Dubbing from tape deck 1 to 2 is possible with tape 1 switch.
 ** Dubbing from tape deck 2 to 1 is possible with tape 2 switch.



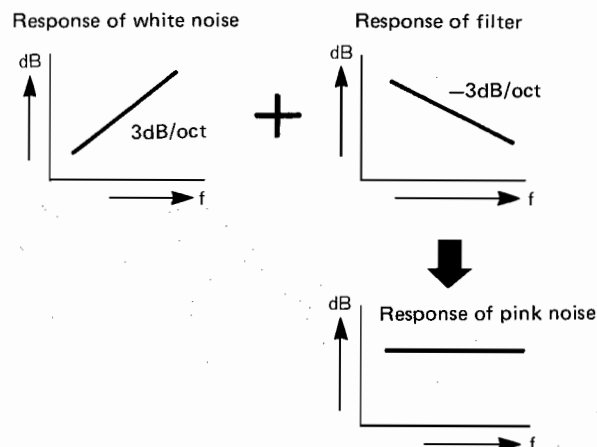
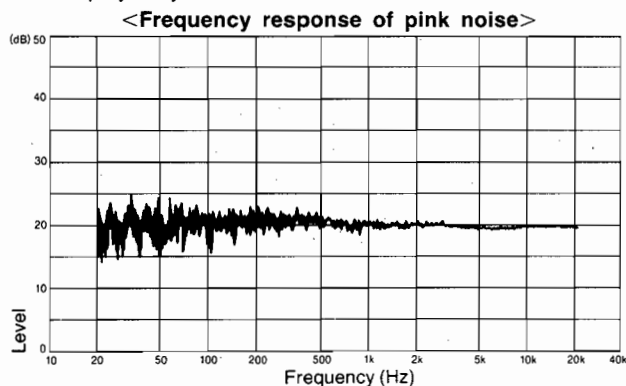
- The power supply for this unit varies depending upon the areas. Also, the parts used for power supply are different. So, refer to the circuit diagram and the replacement parts list.

REAL TIME SPECTRUM ANALYZER

- This can be used to measure and correct the sound field frequency response of a listening room and to measure the frequency components of a sound source.
- The same 12-band frequency divider as for the band level controls allows the levels of the frequency components of voices, music, etc., to be visually displayed.
- The "full range" area on the right side displays the combined level of all of the frequency bands.
- The display is in 12 points for each frequency band and a level width of 30 dB can be displayed.
- The real time spectrum analyzer is connected to the output terminals of this unit. When the equalizer switch is "on", the level of the corrected source is displayed; when pink noise switch is "on", the level of the corrected pink noise is displayed; when the microphone is connected, the microphone input level is displayed.
- The attack time and recovery time of the display is fast for source and slow for pink noise; thus the responsiveness to the source is good and the display is easy to see during sound field correction.

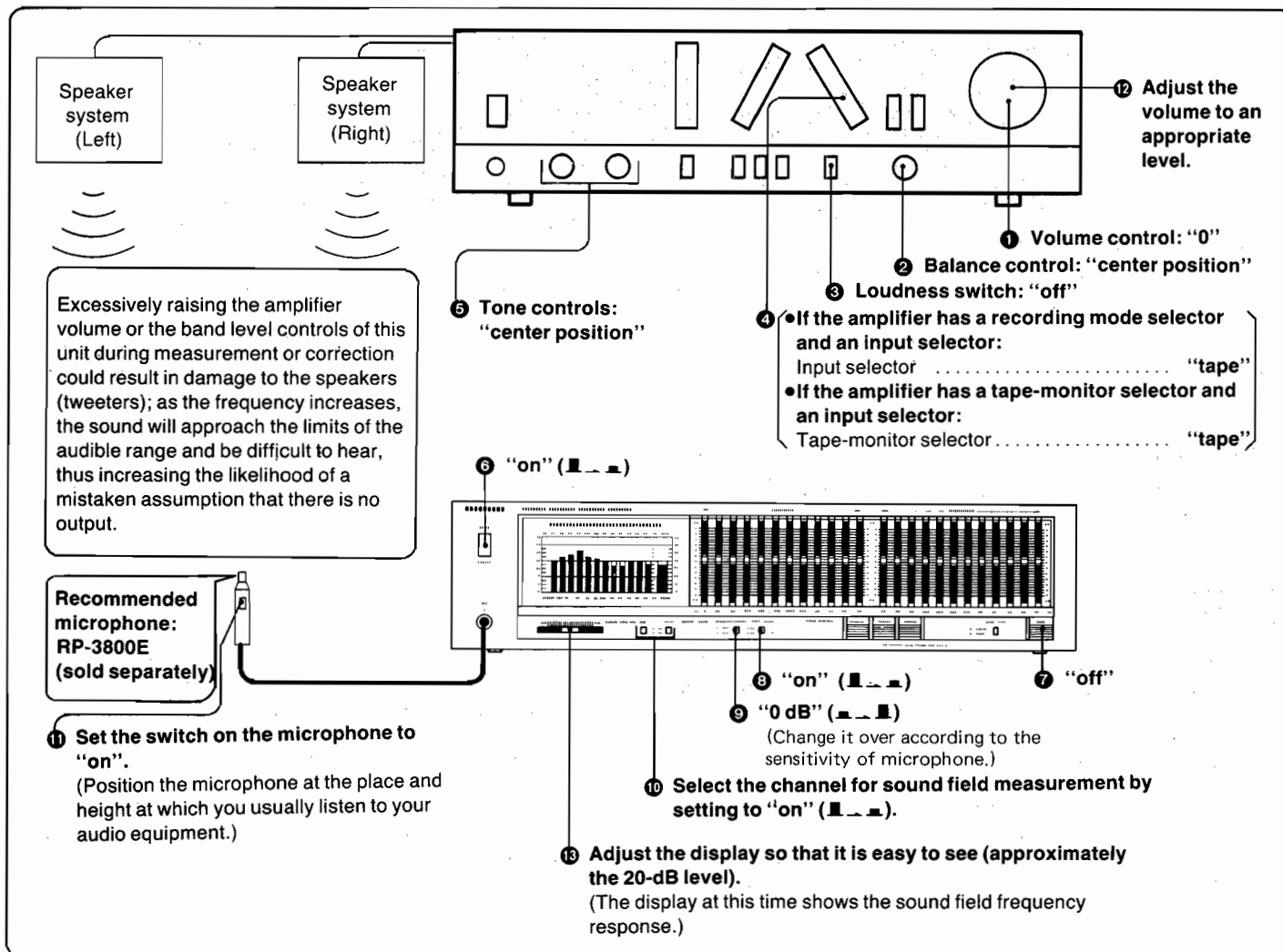
PINK NOISE

- Pink noise is used for measurement and correction of the sound field frequency response because it is mostly within the audible range, its energy distribution is uniform, and it has a wide frequency band.
- Because pink noise has large instantaneous level fluctuations, the display may fluctuate.

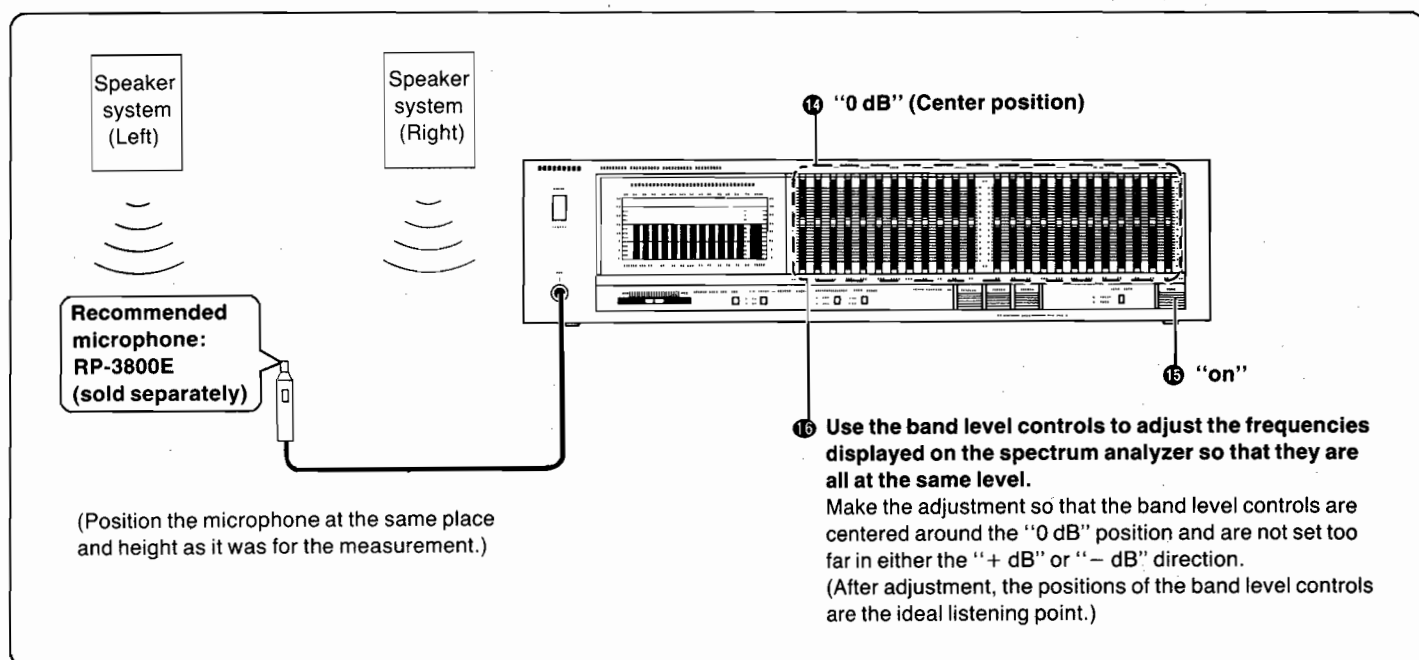


HOW TO USE THE REAL-TIME SPECTRUM ANALYZER

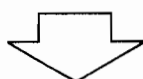
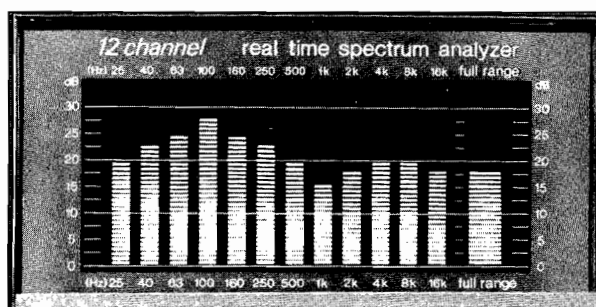
- With the sound volume of amplifier set at minimum, the frequency characteristics of sound sources such as human voice, live music and noise can be measured (displayed on spectrum analyzer) through operations in numerical order as shown below.
- As the sound volume of amplifier is increased through operations as shown below, the sound volume of pink noise increases, and then the sound field frequency characteristics can be measured (displayed on spectrum analyzer).



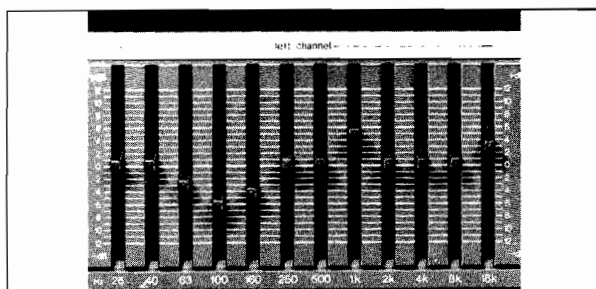
- Correct the sound field in order as shown below according to the data obtained through measurement on page 4.
- Correct is on each of the channels.



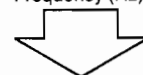
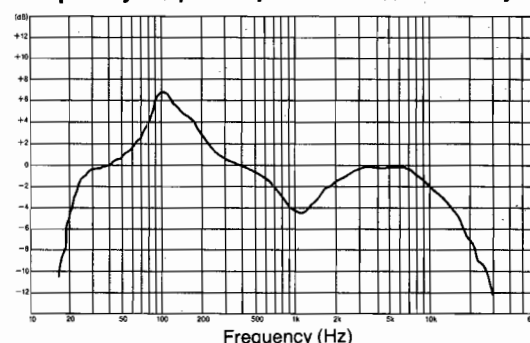
(Example of sound field frequency response obtained through measurement)



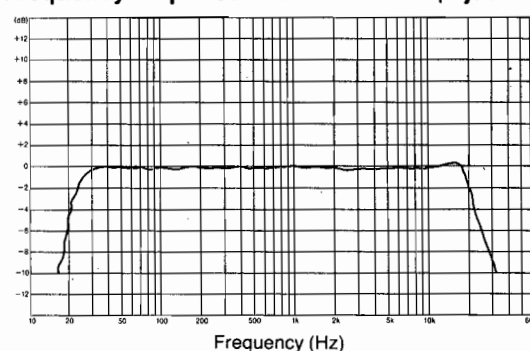
(Position of the band level controls after correction adjustment)



Frequency response prior to correction adjustment



Frequency response after correction adjustment



- Depending on the listening room, it is not always possible to obtain a perfectly flat response for equalization correction.
- When making the correction adjustment, the spectrum analyzer display may not always visually agree with the positions of the band level controls.

<Microphone to be used with this unit>

The microphone that should be used with this unit is the RP-3800E (sold separately). If any other microphone is used, the frequency response displayed on the spectrum analyzer may differ from the actual sound field frequency response.

DISASSEMBLY INSTRUCTIONS

1. How to remove the cabinet

1. Remove the screws (Fig. 1: ① ~ ⑦) of the cabinet.
2. Remove the cabinet.

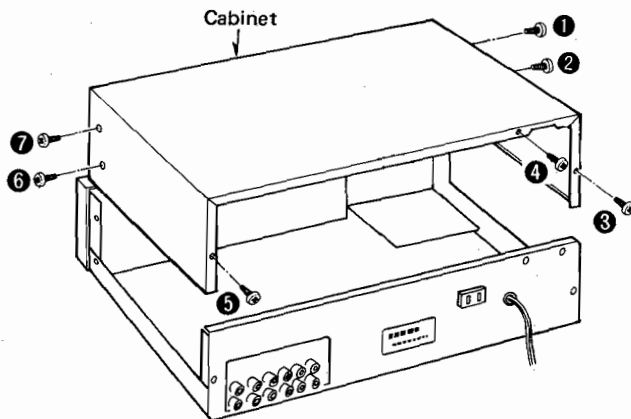


Fig. 1

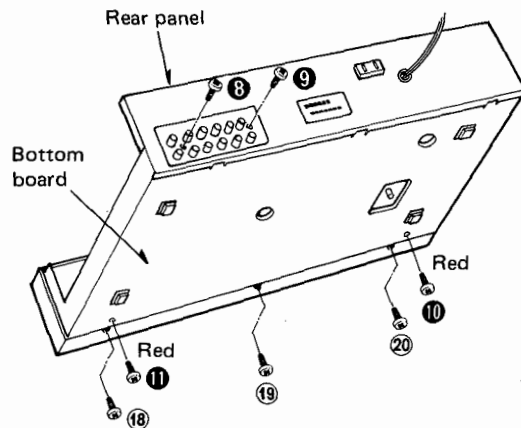


Fig. 2

2. How to remove the printed circuit board

1. Remove the cabinet. (Refer to "How to remove the cabinet")
2. Remove the screws (Fig. 2: ⑧ ~ ⑪) of the rear panel and the bottom board.
3. Remove the screws (Fig. 3: ⑫ ~ ⑭) of the main printed circuit board.
4. Remove the stopper A (P.C.B. holder) of the FL printed circuit board. (Refer to Fig. 4)

(Note) Claw screws or ordinary screws (3 x 8 mm) and toothed washers should be used for screws ⑫ and ⑭.

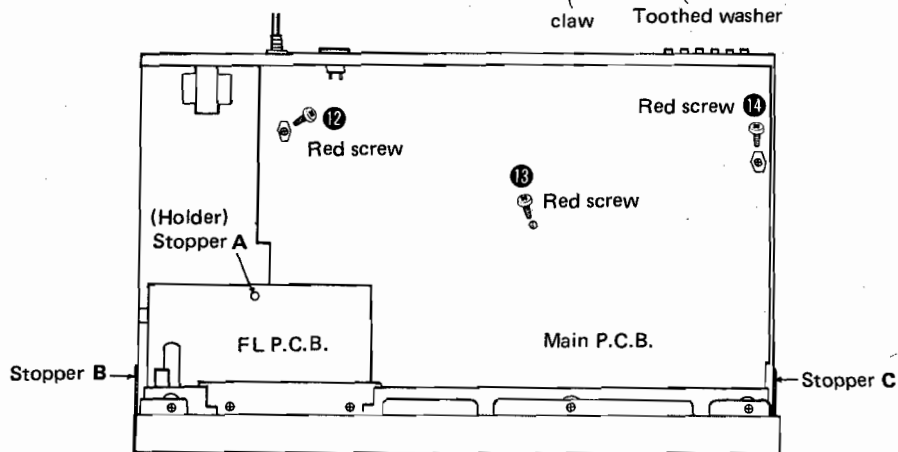
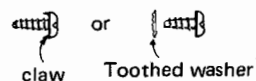


Fig. 3

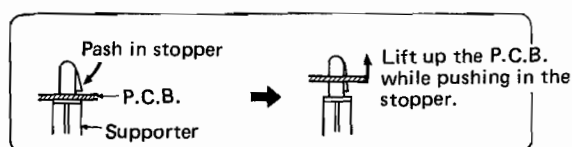


Fig. 4

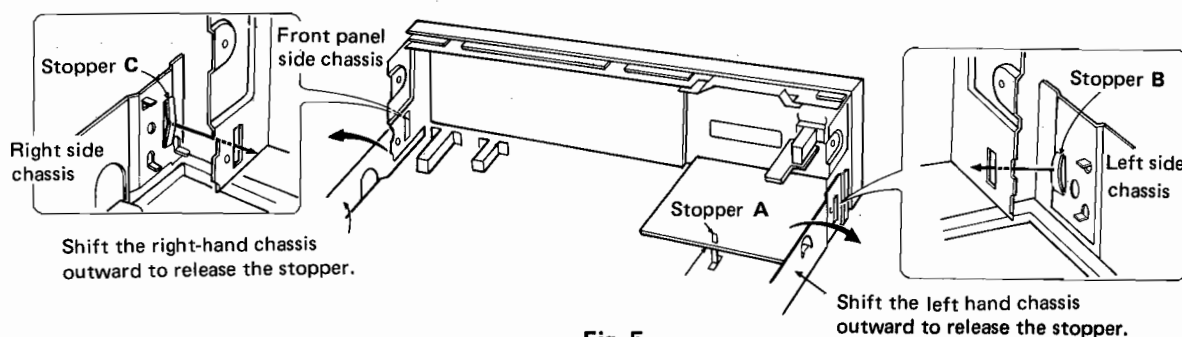


Fig. 5

5. Shift the right and left chassis outward as shown in **Fig. 5** to release the stoppers **B** and **C** out of the chassis holes on the front panel side.

6. Slightly draw out the front panel toward you along with the P.C.B., then raise the chassis as in **Fig. 6** and check.

* When checking the voltage, removing screws ⑫ and ⑭ of **Fig. 3**, touch the ground side of circuit tester rod to the ground line of P.C.B. (power supply circuit terminal (3), etc.) because the chassis is not grounded.

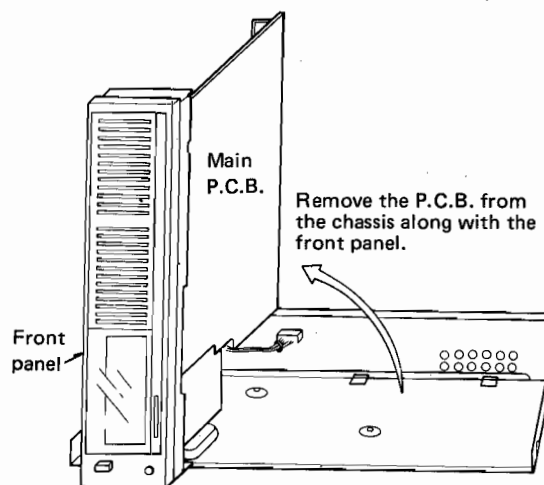


Fig. 6

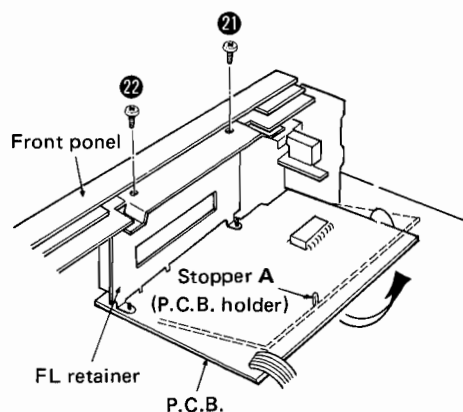


Fig. 7

3. How to remove the FL P.C.B.

1. Remove the cabinet. (See **Fig. 1**.)
2. Remove screws ⑫ and ⑭ as in **Fig. 7**.
3. Remove stopper A. (See **Fig. 4**.)
4. Remove P.C.B. together with FL from the chassis in the direction of the arrow in **Fig. 7**.

4. How to remove front panel

1. Remove the cabinet. (See **Fig. 1**.)
2. Remove screws ⑮ ~ ⑳ as in **Fig. 8**. (For screws ⑮ ~ ⑳, See **Fig. 2**.)
3. Remove the front panel from the chassis.
4. Input switch LED P.C.B. and EQ switch LED P.C.B. are fitted to the front panel. Release the claws as in **Fig. 9** to remove the P.C.B. from the front panel.

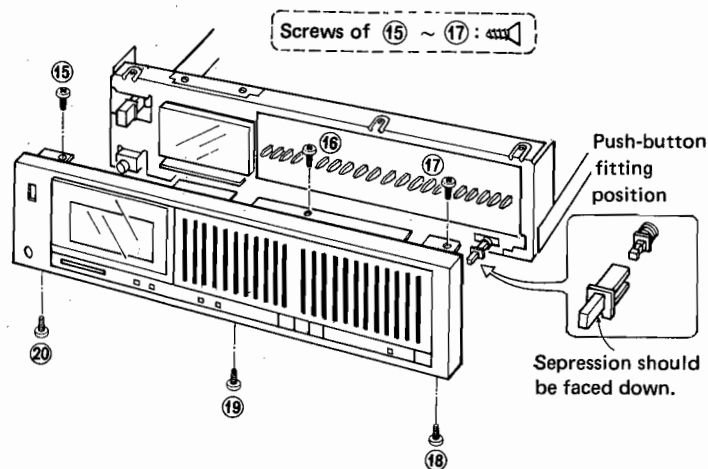


Fig. 8

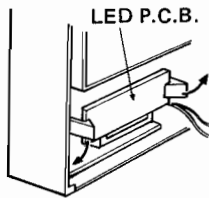


Fig. 9

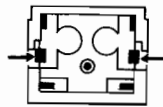


Fig. 10

6. How to remove band level control P.C.B.

1. Remove the front panel. (See Fig. 8.)
 2. Remove the light shielding cloth as in Fig. 11.
 3. Remove the 12 screws shown in Fig. 12 to remove the P.C.B. (It can be removed together with the knobs.)
- * The light shielding cloth and control P.C.B. can be removed together with the knobs. When removing the knobs, refer to Fig. 11.

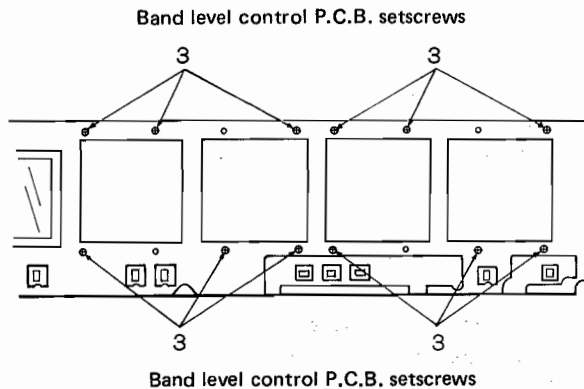


Fig. 12

5. How to remove input select/EQ switch

1. Remove the front panel. (See Fig. 8.)
2. Push the claw of the button from the back of front panel in the direction of the arrow as in Fig. 10 to shift it out toward the front panel.

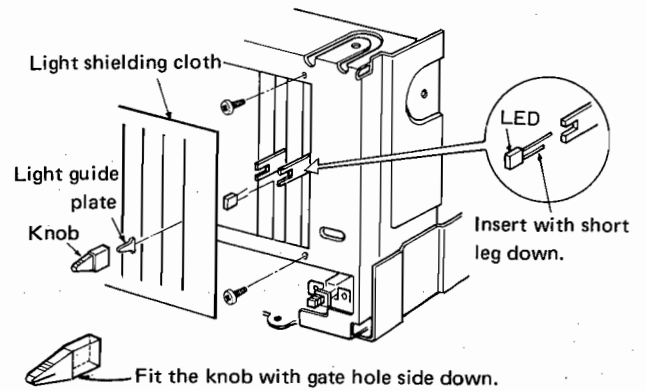
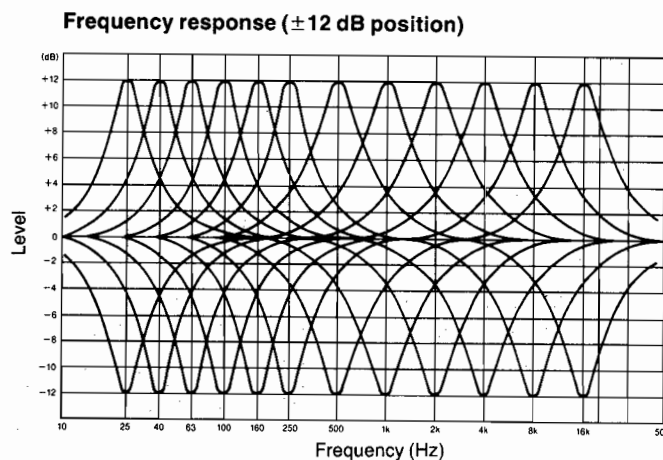


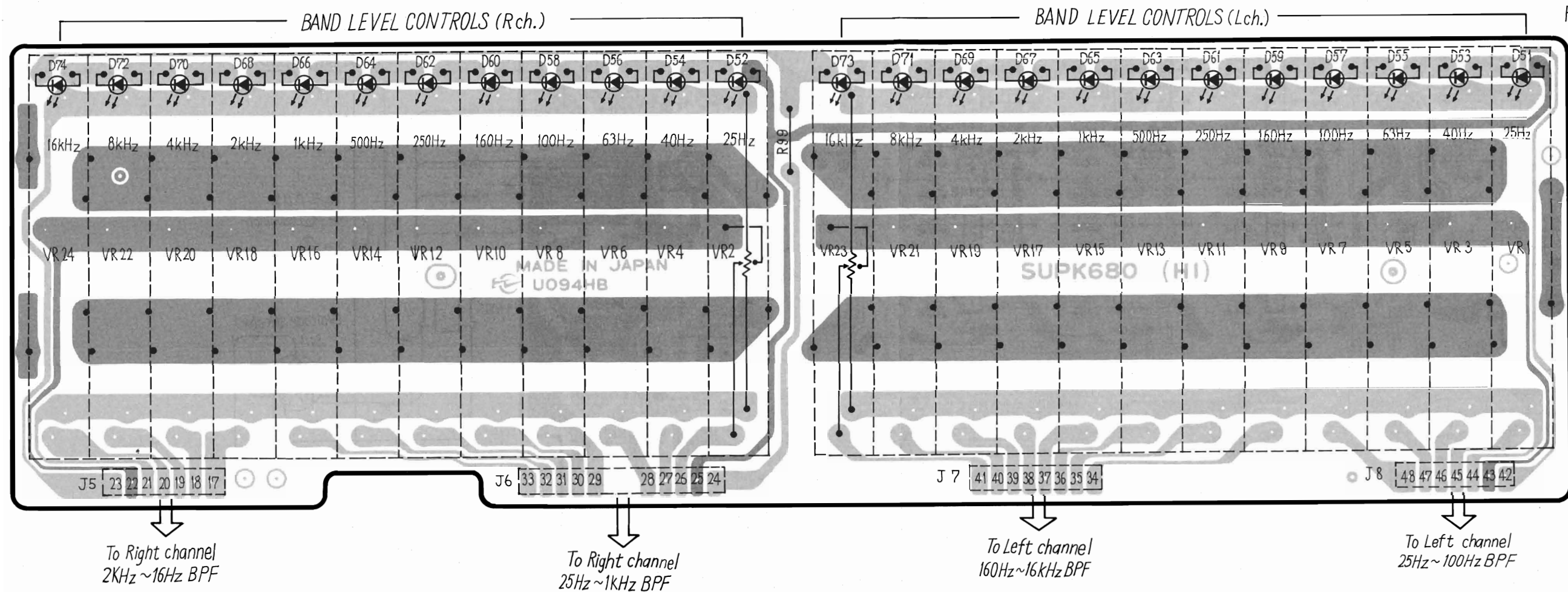
Fig. 11

TOTAL FREQUENCY RESPONSE



PRINTED CIRCUIT BOARDS

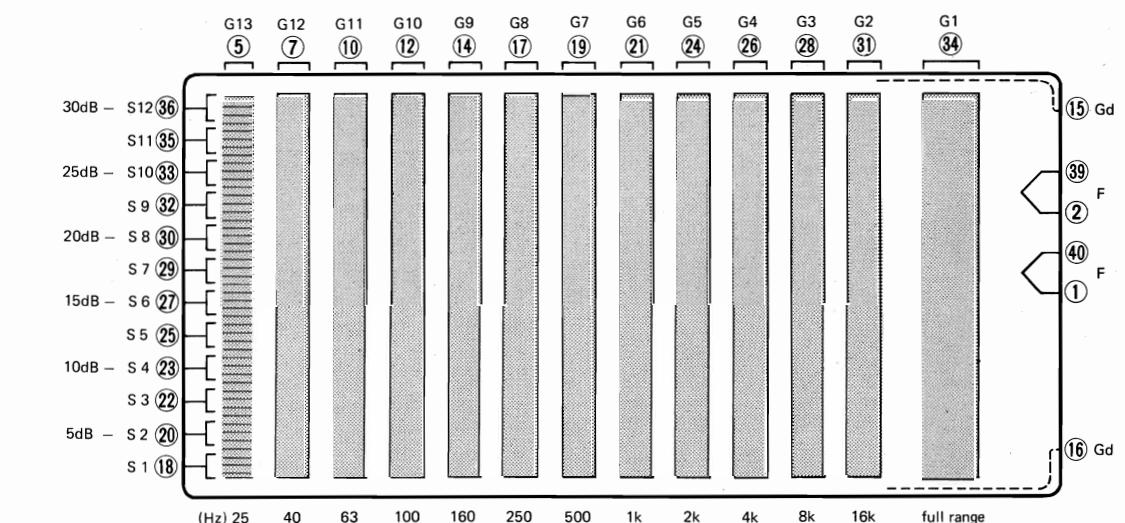
- Band level control P.C.B. of left and right channel



- Terminal guide of transistors, diodes and IC's

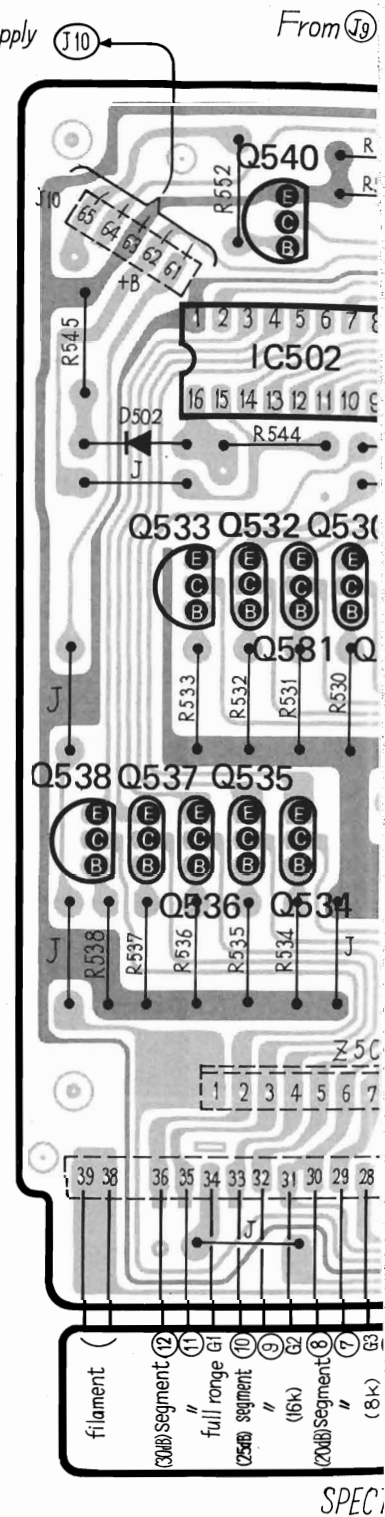
SVIHA12010 16 pins SVIM54834P 22 pins	2SA564, 2SA921, 2SA1246, 2SC1815, 2SC2878	2SB941, 2SD1265	SVINJM2043SE SVITA75559S
AN78N12	SVD1SR35200F	SVD1B4B42	OA90 SVD1S2076
MA27-W	LN251RCPP	MA1160	LN41YCPH, LN81RCPH

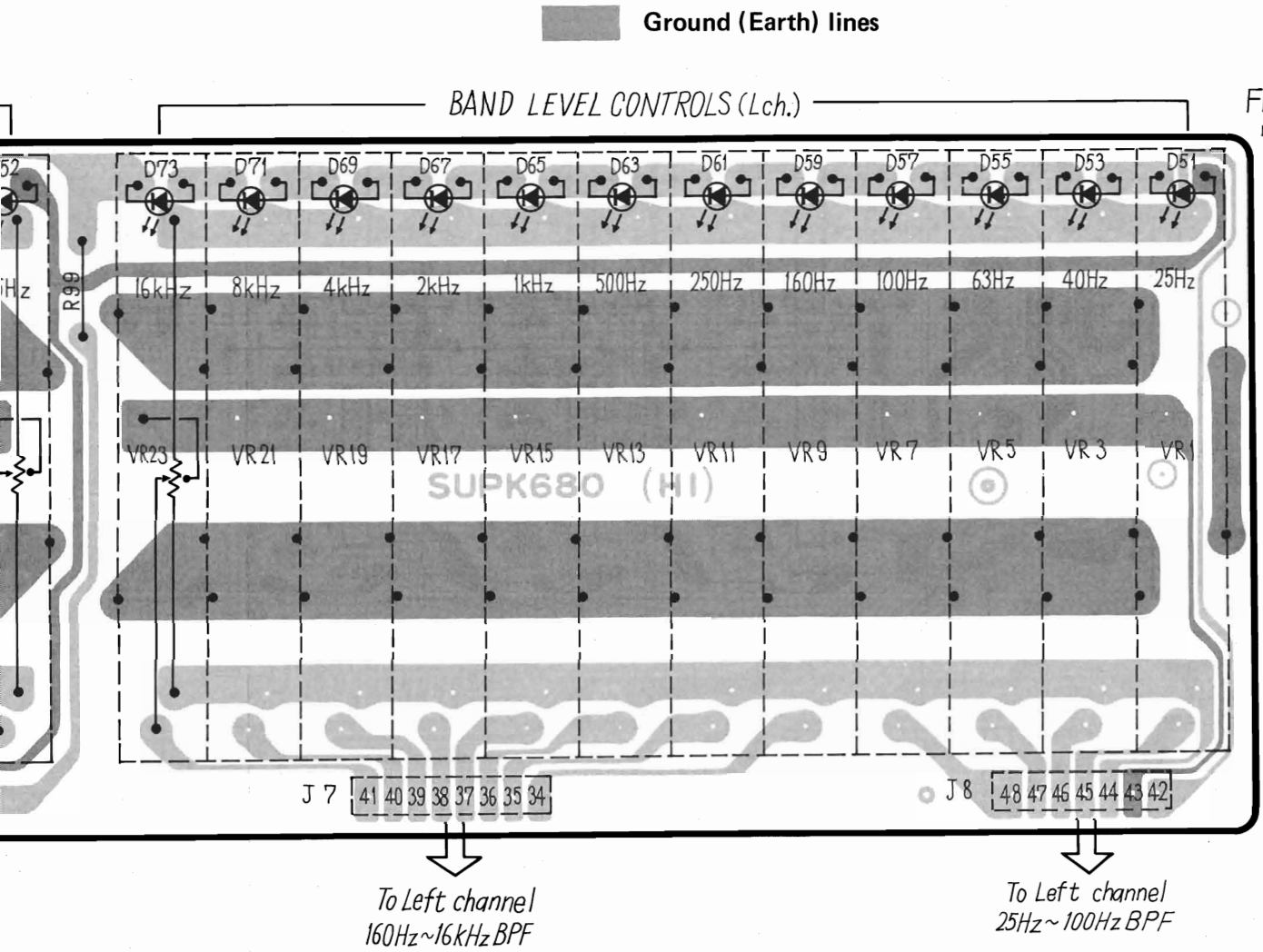
- Terminal number of FL (Spectrum analyzer)



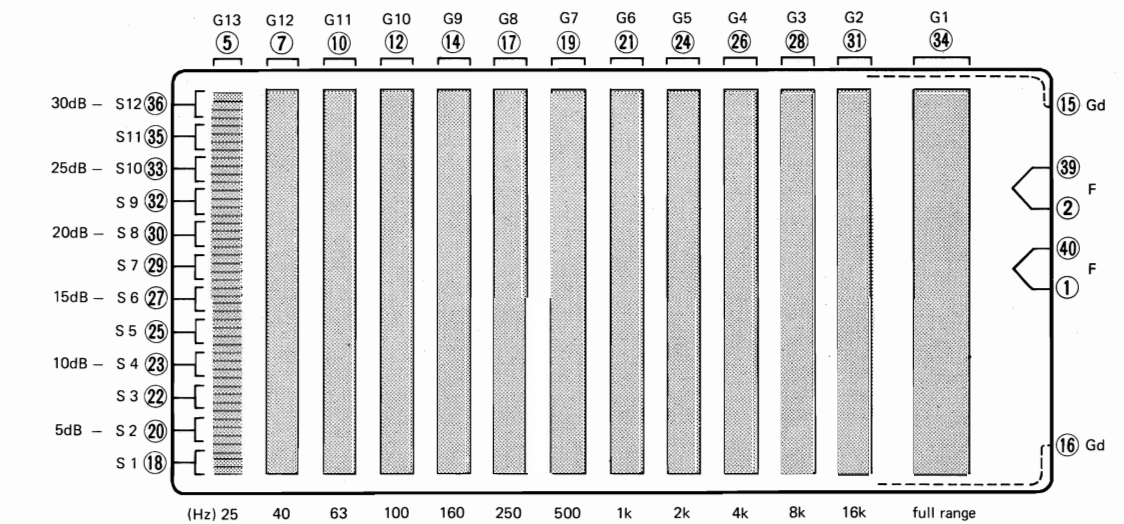
PIN No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39		
PIN CONNECTION	F	F	No	Nc	G	Nc	G	Nc	Nc	G	Nc	G	Nc	G	Nc	G	Nc	G	Nc	G	Nc	G	Nc	G	Nc	G	Nc	G	Nc	G	Nc	G	Nc	G	Nc	G	Nc	G	Nc	G	Nc

- Spectrum analyzer display



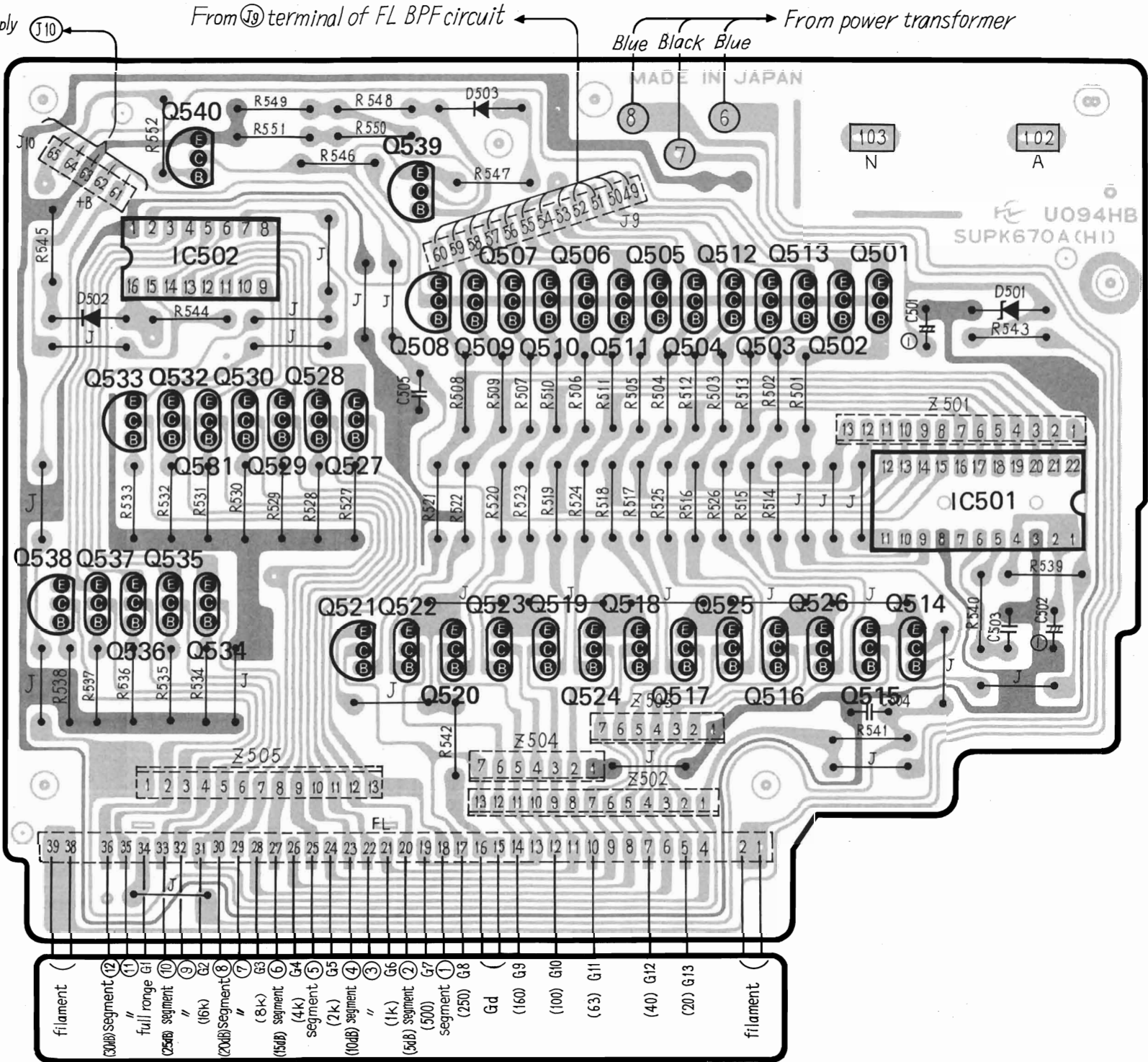


• Terminal number of FL (Spectrum analyzer)



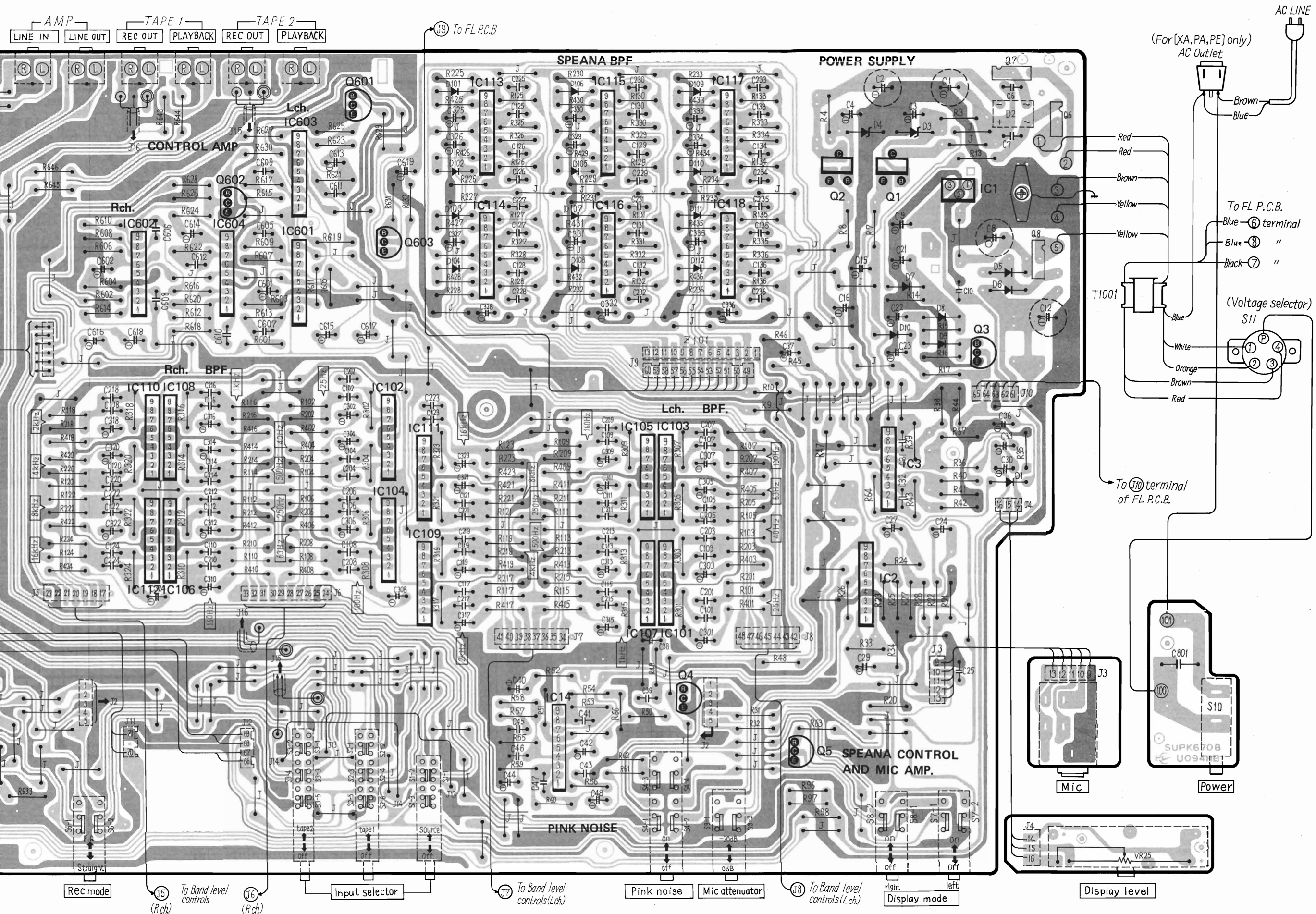
PIN No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
PIN CONNECTION	F	F	Np	Nc	G	G	Nc	Nc	Nc	G	Nc	G	Nc	G	Gd	Gd	G	S	G	S	G	S	S	G	S	S	G	S	S	S	S	S	G	S	S	S	Np	F	F

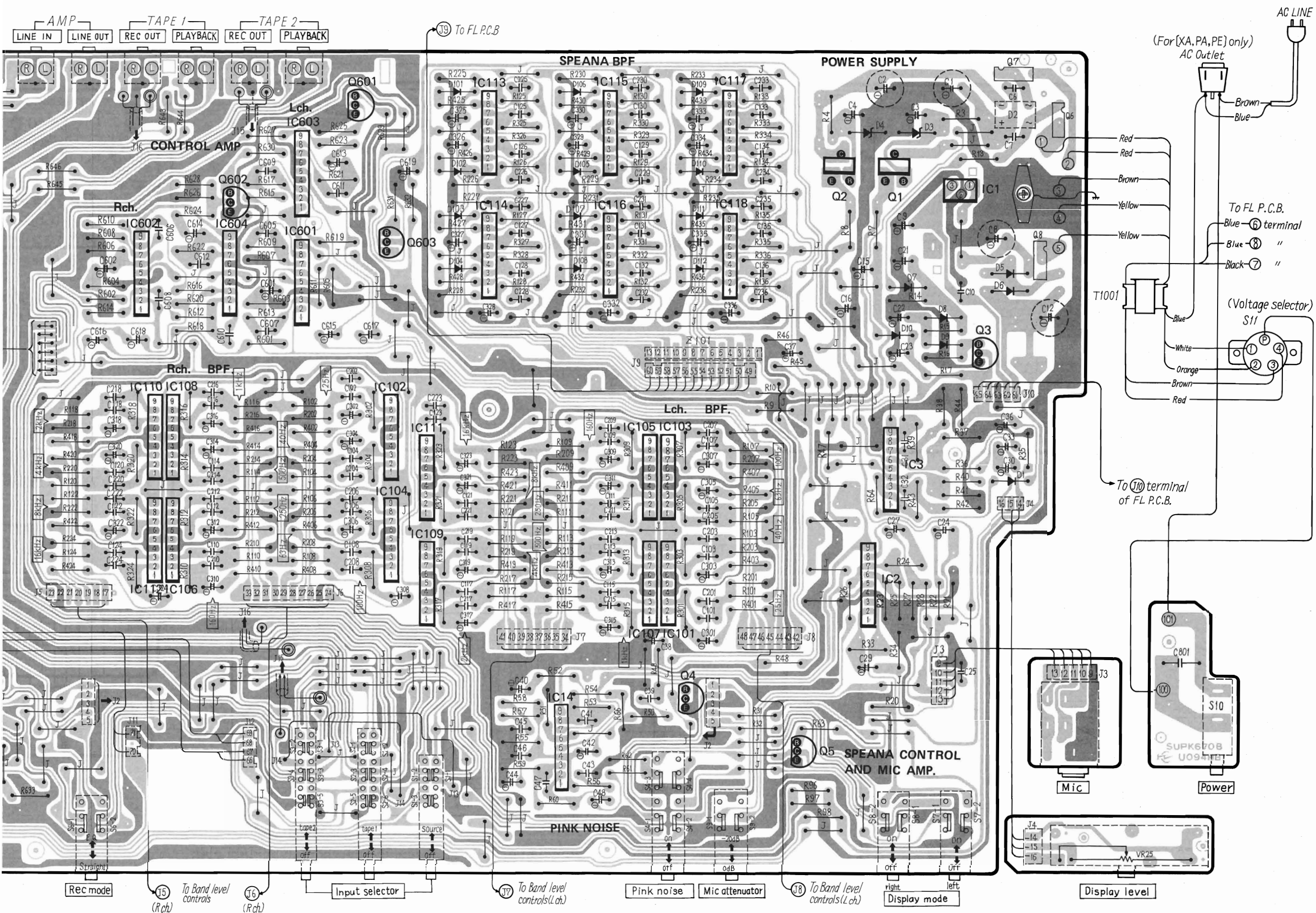
• Spectrum analyzer display P.C.B.



SPECTRUM ANALIZER DISPLAY (FL)







REPLACEMENT PARTS LIST

- Notes: 1. Part numbers are indicated on most mechanical parts. Please use this part number for parts order.
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. $\otimes$ —marked parts are used for black only, while $\bigcirc$ —marked parts are for silver type only.
4. Part other than $\otimes$ —and $\bigcirc$ —marked are used for both black and silver type.
5. Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.
6. The " S " mark is service standard parts and may differ from production parts.
7. The parenthesized numbers in the column of description stand for the quantity per set.

Black type model No. : SH-8055(K)

Numbering System of Resistor

Example

ERD	25	F	J	101
Type	Wattage	Shape	Tolerance	Value
(carbon)	(%W)		($\pm 5\%$)	(100 Ω)

- The unit of resistance is Ω (ohm),
K = 1000 Ω , M = 1000k Ω .
- The unit of capacitance is μ F (microfarad).
P = 10⁻⁶ μ F

Numbering System of Capacitor

Example

ECKD	1H	103	Z	F
Type	Voltage	Value	Tolerance	Peculiarity

Capacitor Type	Voltage		Tolerance
	ECEA type	Others	
ECEA	: Electrolytic	0J : 6.3V	J : $\pm 5\%$
ECCD	: Ceramic	1A : 10V	K : $\pm 10\%$
ECKD	: Ceramic	1C : 16V	Z : $+80\%$
ECQM	: Polyester	1E : 25V	—20%
ECF	: Semi conductor	1V : 35V	P : $+100\%$
ECQV	: TF	1H : 50V	—0%

Resistors

Ref. No.	Part No.	Value	Ref. No.	Part No.	Value	Ref. No.	Part No.	Value	Ref. No.	Part No.	Value
RESISTORS			RESISTORS			RESISTORS			RESISTORS		
R3,4	Δ S	ERD25FJ681	680	R56	S	ERD25FJ331	330	R215, 216	S	ERD25FJ222	2.2K
R7,8	Δ S	ERD25FJ2R7	2.7	R57	S	ERD25FJ332	3.3K	R217, 218	S	ERD25FJ222	2.2K
R9,10	Δ S	ERD25FJ2R7	2.7	R58, 59	S	ERD25FJ102	1K	R219, 220	S	ERD25FJ152	1.5K
R13	S	ERD25FJ332	3.3K	R60	S	ERD25TJ473	47K	R221, 222	S	ERD25FJ222	2.2K
R14	S	ERD25FJ472	4.7K	R61	S	ERD25FJ182	1K	R223, 224	S	ERD25FJ222	2.2K
R15	S	ERD25TJ273	27K	R62	S	ERD25TJ104	100K	R225, 226	S	ERD25FJ222	2.2K
R16	S	ERD25TJ123	12K	R63	S	ERD25FJ102	1K	R227	S	ERD25FJ222	2.2K
R17	S	ERD25FJ562	5.6K	R64	S	ERD25FJ182	1.8K	R228	S	ERD25FJ182	1.8K
R20	S	ERD25FJ102	1K	R66	S	ERD25TJ104	100K	R229, 230	S	ERD25FJ222	2.2K
R21	S	ERD25FJ472	4.7K	R96, 97	Δ	ERDS1FJ222	2.2K	R231, 232	S	ERD25FJ222	2.2K
R22	S	ERD25FJ102	1K	R98	Δ	ERDS1FJ182	1.8K	R233, 234	S	ERD25FJ222	2.2K
R23	S	ERD25TJ153	15K	R99	S	ERD25FJ101	100	R235, 236	S	ERD25FJ222	2.2K
R24	S	ERD25TJ224	220K	R101, 102	S	ERD25TJ274	270K	R301, 302	S	ERD25TJ564	560K
R25	S	ERD25FJ472	4.7K	R103, 104	S	ERD25TJ274	270K	R303, 304	S	ERD25TJ564	560K
R26	S	ERD25FJ561	560	R105, 106	S	ERD25TJ274	270K	R305, 306	S	ERD25TJ564	560K
R27	S	ERD25TJ104	100K	R107, 108	S	ERD25TJ274	270K	R307, 308	S	ERD25TJ564	560K
R28	S	ERD25FJ222	2.2K	R109, 110	S	ERD25TJ124	120K	R309, 310	S	ERD25TJ224	220K
R31, 32	S	ERD25TJ124	120K	R111, 112	S	ERD25TJ124	120K	R311, 312	S	ERD25TJ224	220K
R33	S	ERD25TJ274	270K	R113, 114	S	ERD25TJ123	12K	R313, 314	S	ERD25TJ223	22K
R34	S	ERD25TJ104	100K	R115, 116	S	ERD25TJ123	12K	R315, 316	S	ERD25TJ223	22K
R35	S	ERD25FJ561	560	R117, 118	S	ERD25FJ103	10K	R317, 318	S	ERD25TJ223	22K
R36	S	ERD25FJ102	1K	R119, 120	S	ERD25TJ123	12K	R319, 320	S	ERD25TJ223	22K
R37	S	ERD25TJ104	100K	R121, 122	S	ERD25TJ123	12K	R321, 322	S	ERD25TJ223	22K
R38	S	ERD25FJ681	680	R123, 124	S	ERD25FJ103	10K	R323, 324	S	ERD25TJ223	22K
R39	S	ERD25TJ104	100K	R125, 126	S	ERD25TJ333	33K	R325, 326	S	ERD25TJ274	270K
R40, 41	S	ERD25FJ102	1K	R127	S	ERD25TJ333	33K	R327	S	ERD25TJ224	220K
R42	S	ERD25FJ471	470	R128	S	ERD25TJ393	39K	R328	S	ERD25TJ274	270K
R43	S	ERD25TJ124	120K	R129	S	ERD25TJ333	33K	R329	S	ERD25TJ224	220K
R44	S	ERD25TJ683	68K	R130	S	ERD25TJ393	39K	R330	S	ERD25TJ274	270K
R45	S	ERD25TJ124	120K	R131	S	ERD25TJ333	33K	R331	S	ERD25TJ224	220K
R46	S	ERD25FJ822	8.2K	R132, 133	S	ERD25TJ333	33K	R332	S	ERD25TJ274	270K
R47	S	ERD25TJ334	330K	R134, 135	S	ERD25TJ393	39K	R333, 334	S	ERD25TJ224	220K
R48	S	ERD50FJ181	180	R136	S	ERD25TJ273	27K	R335, 336	S	ERD25TJ224	220K
R49	S	ERD25TJ564	560K	R201, 202	S	ERD25TJ153	15K	R401, 402	S	ERD25FJ152	1.5K
R50	S	ERD25TJ334	330K	R203, 204	S	ERD25TJ153	15K	R403, 404	S	ERD25FJ152	1.5K
R51	S	ERD25TJ104	100K	R205, 206	S	ERD25FJ153	15K	R405, 406	S	ERD25FJ152	1.5K
R52	S	ERD25FJ102	1K	R207, 208	S	ERD25TJ153	15K	R407, 408	S	ERD25FJ152	1.5K
R53	S	ERD25TJ104	100K	R209, 210	S	ERD25FJ682	6.8K	R409, 410	S	ERD25FJ152	1.5K
R54	S	ERD25FJ682	6.8K	R211, 212	S	ERD25FJ682	6.8K	R411, 412	S	ERD25FJ152	1.5K
R55	S	ERD25TJ104	100K	R213, 214	S	ERD25FJ222	2.2K	R413, 414	S	ERD25FJ152	1.5K

Resistors

Ref. No.	Part No.		Value	Ref. No.	Part No.		Value
RESISTORS				RESISTORS			
R546	S	ERD25TJ123	12K	R601, 602	S	ERD25FJ102	1K
R547	S	ERD25TJ273	27K	R603, 604	S	ERD25TJ683	68K
R548	S	ERD25TJ823	82K	R605, 606	S	ERD25TJ104	100K
R549	S	ERD25TJ223	22K	R607, 608	S	ERD25TJ104	100K
R550	S	ERD25TJ473	47K	R609, 610	S	ERD25FJ682	6.8K
R551	S	ERD25FJ103	10K	R611, 612	S	ERD25FJ103	10K
R552	S	ERD25FJ472	4.7K	R613, 614	S	ERD25FJ103	10K

Capacitors

Ref. No.	Part No.	Value	Ref. No.	Part No.	Value		
CAPACITORS			CAPACITORS				
C1, 2	ECEA1EU471	470	C47	S	ECCD1H100KC	10P	
C3, 4	ECEA1EU101	100	C48		ECEA1EU4R7	4.7	
C5, 6	S	ECKD1H223ZF	0.022	C101, 102		ECFTD683KXL	0.068
C8		ECEA1VU221	220	C103, 104		ECFTD473KXL	0.047
C9		ECEA1CU470	47	C105, 106		ECFTD333KXL	0.033
C10	S	ECKD1H223ZF	0.022	C107, 108		ECFTD183KXL	0.018
C12		ECEA1VU221	220	C109, 110		ECFTD273KXL	0.027
C15, 16		ECEA1EU470	47	C111, 112		ECFTD183KXL	0.018
C21		ECEA1HU010	1	C113, 114		ECFTD563KXL	0.056
C22		ECEA0JU101	100	C115, 116		ECFTD273KXL	0.027
C23		ECEA1EU101	100	C117, 118		ECFTD123KXL	0.012
C24		ECEA1EU3R3	3.3	C119, 120		ECFTD682KXL	0.068
C25		ECFTD332KXL	0.0033	C121, 122		ECFTD332KXL	0.0033
C27		ECEA1EU3R3	3.3	C123, 124		ECFTD152KXL	0.0015
C29, 30		ECEA1EU4R7	4.7	C125		ECQM1H274JZ	0.27
C31	S	ECCD1H220K	22P	C126		ECQM1H184JZ	0.18
C32	S	ECCD1H330K	33P	C127		ECQV05124JZ	0.12
C33		ECEA1EU4R7	4.7	C128		ECFTD823KXL	0.082
C36		ECEA1CU100	10	C129		ECFTD473KXL	0.047
C37		ECEA0JU101	100	C130		ECFTD273KXL	0.027
C38		ECEA1CU470	47	C131		ECFTD153KXL	0.015
C39		ECFTD683KXL	0.068	C132		ECFTD682KXL	0.068
C40		ECEA1AU470	47	C133		ECFTD392KXL	0.0039
C41	S	ECCD1H100KC	10P	C134		ECFTD222KXL	0.0022
C42		ECEA1CU470	47	C135		ECFTD102KXL	0.001
C43		ECFTD823KXL	0.082	C136	S	ECKD1H471KB	470P
C44		ECEA1HU010	1	C201, 202		ECFTD683KXL	0.068
C45		ECQV05184JZ	0.18	C203, 204		ECFTD473KXL	0.047
C46		ECFTD333KXL	0.033	C205, 206		ECFTD273KXL	0.027

Electronic parts

Ref. No.	Part No.	Description
INTEGRATED CIRCUITS		
IC1	AN78N12	12V Regulator
IC2~4, 101~118	SVITA75559S	Ope Amp, BPF
IC501	SVIM54834	14CH, Selector
IC502	SVIHA12010	FL Driver
IC601, 602	SVITA75559S	Buffer
IC603, 604	SVINJM2043SE	Inverter
TRANSISTORS		
Q1	2SD1265—P	Regulator
Q2	2SB941—P	Regulator
Q3	2SC1815L—G	Muting
Q4	2SA921—T	White Noise
Q5, 601, 602	2SC2878A—T	Muting
Q501~513	2SA1246T—A	Sampling Gate
Q514~526	2SA1015—Y	Inverter
Q527~539, 603	2SA722—S	Inverter, Buffer
Q540	2SC2878A—T	Muting
IC PROTECTORS		
O6~8	SVIICPF10	1A, 0.2 Ω

Ref. No.	Part No.	Description
DIODES		
D1, 7, 8, 10, 101~112	SVD1S2076A	Switching
D2	Δ SVD1B4B42	Rectifire
D3, 4	Δ SVDRD16EB	16V Zener
D5, 6	Δ SVD1SR35200F	Rectifire
D9	MA27W—A	Bias
D11~16	LN41YCPH	LED, Input Selector
D17, 18	LN81RCPP	LED, EQ
D51~74	LN251RCPP	LED, Level Controll
D501	MA1200	20V Zener
D502	SVD1S2076A	Bias
D503	S 20A90	Bias
COMPONENT COMBINATIONS		
Z101, 502	RGSD12X104K	100k Ω ×12
Z501	RGSD12X472K	4.7k Ω ×12
Z503, 504	PJB6XC221K	220pF×6
Z505	RGHD12X562K	5.6k Ω ×12

Ref. No.	Part No.	Description
POWER TRANSFORMER		
T1001	Δ SLTK5V3—W	Power Source
VARIABLE RESISTORS		
VR1~24	EVAJN2J15G25	Band Level
VR25	EWANH0C15B24	Controll Display Level
FLUORESCENT DISPLAY TUBE		
FL	SADBG188Z	Spectrum analyzer
SWITCHES		
S1~3	SSHK37	Input Selector
S4, 9	SSHK38	Pink Noise, Mic ATT
S5	SSHK35	Equalizer, on-off
S6	SSHK36	Rec Mode
S7, 8	SSHK39	Display Mode
S10	SSH1057	Power Source
S11	Δ ESE3787	Voltage Selector

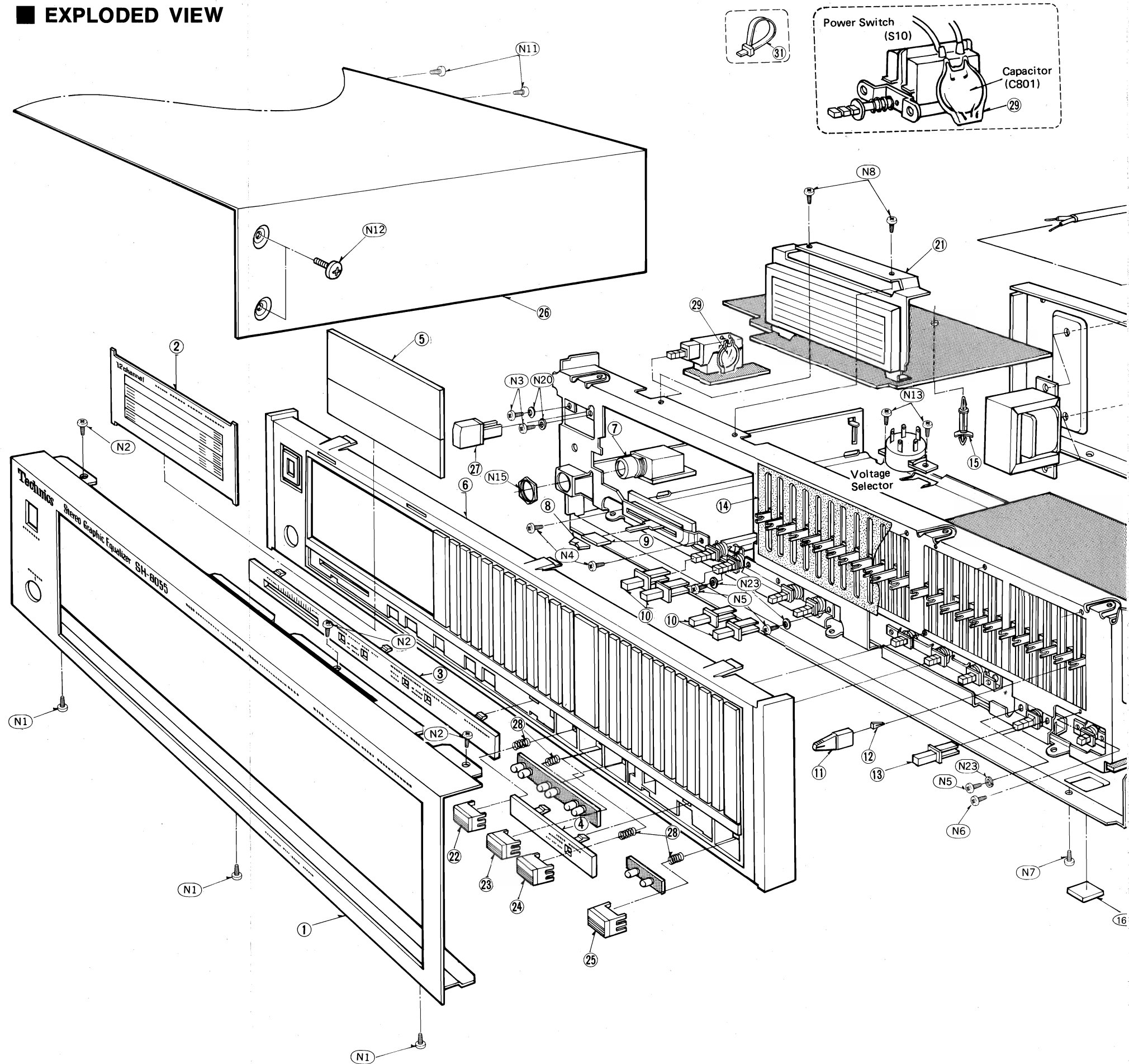
Cabinet an

Ref. No.		
CABINET and C		
1	○	SG
1	⊗	SG
2	○	SD
2	⊗	SD
3	○	SG
3	⊗	SG
4	○	SG
4	⊗	SG
5	○	SG
5	⊗	SG
6	○	SG
6	⊗	SG
7		SJ
8	○	SB
8	⊗	SB
9		SU
10	○	SB
10	⊗	SB
11		SB
12		SB
13		SB
14		SG
15		SH
16		SK
16-1		SH
17		SJF
18(E)		SG
18(XA, PA, PE)		SG
18(other)		SG
19(EK)	△	QF
19(PA, PE)	△	RJ
19(XL)	△	QF
19(other)	△	SJ
20(XA, PA, PE) only	△	SJ
21		SU
22		SB
23		SB
24		SB
25		SB
26	○	SK
26	⊗	SK
27		SB
28		SU
29		SM
30(EK)		SH
30(other)		SH
31		SH

● Cabinet and Chassis parts

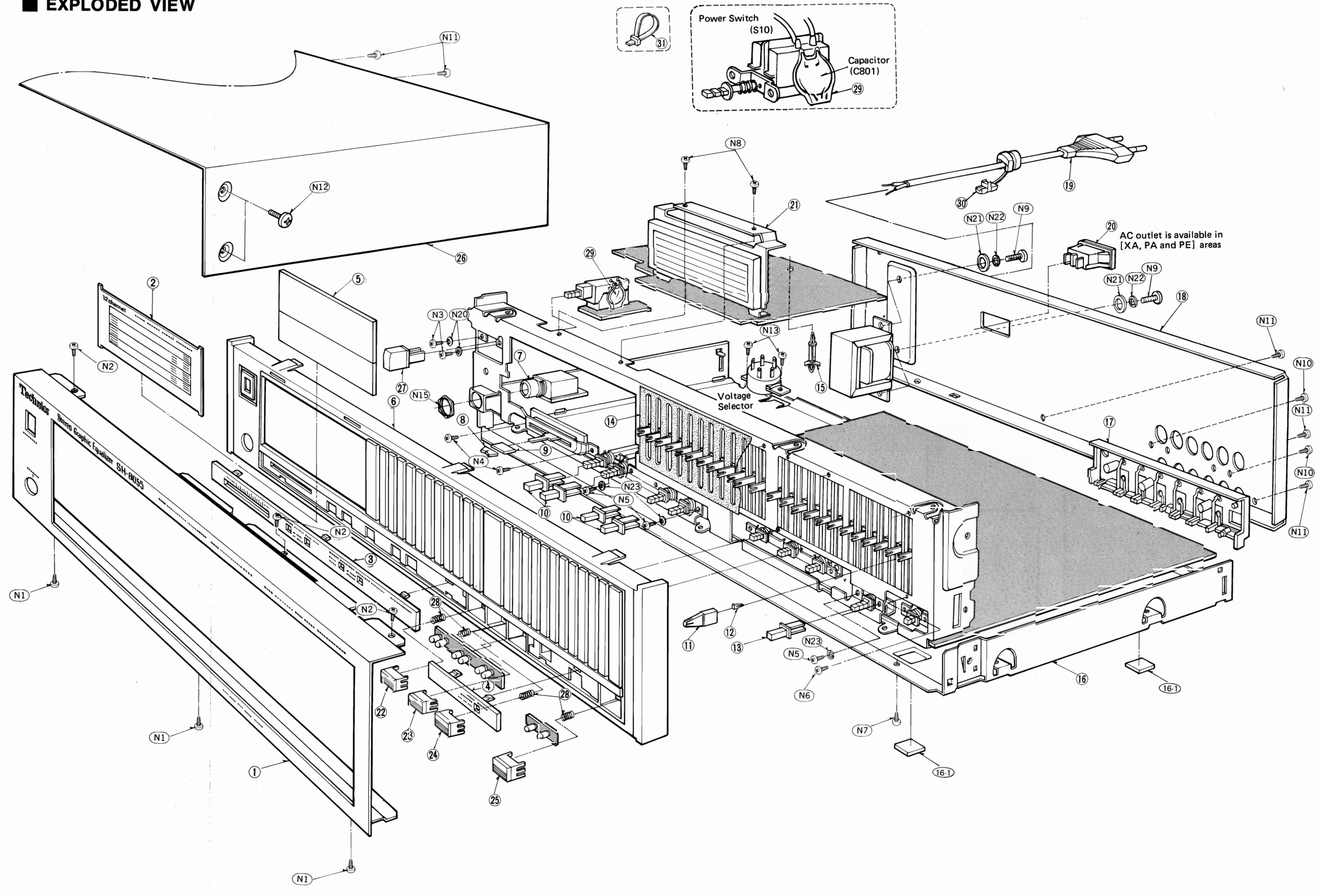
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
CABINET and CHASSIS PARTS					
1	○ SGWK210PA	Front Panel (Silver) (1)	N1	S XTB3+8B	Tapping, $\oplus 3 \times 8$ (3)
1	⊗ SGWK210BA	Front Panel (Black) (1)	N2	S XTB3+8B	Tapping, $\oplus 3 \times 8$ (3)
2	○ SDUK8	Dial Plate(Silver) (1)	N3	S XSN3+6S	$\oplus 3 \times 6$ (2)
2	⊗ SDUK8-1	Dial Plate(Black) (1)	N4	S XSN2+2AFZ	$\oplus 2 \times 2$ (2)
3	○ SGXK75	Ornament Cover (Silver) (1)	N5	S XSN3+6S	$\oplus 3 \times 6$ (2)
3	⊗ SGXK75-1	Ornament Cover (Black) (1)	N6	S XSN2+4FZ	$\oplus 2 \times 4$ (12)
4	○ SGXK76	Ornament Cover (Silver) (1)	N7	S XTB3+8B	Tapping, $\oplus 3 \times 8$ (3)
4	⊗ SGXK76-1	Ornament Cover (Black) (1)	N8	S XTB3+8B	Tapping, $\oplus 3 \times 8$ (2)
5	○ SGUK10	Transparent Plate (Silver) (1)	N9	S XSN4+8FZ	$\oplus 4 \times 8$ (2)
5	⊗ SGUK10-1	Transparent Plate (Black) (1)	N10	S XTB3+10BFZ	Tapping, $\oplus 3 \times 10$ (2)
6	○ SGXK74	Sub Front Panel (Silver) (1)	N11	S XTB3+8BFZ	Tapping, $\oplus 3 \times 8$ (5)
6	⊗ SGXK74-1	Sub Front Panel (Black) (1)	N12	○ SNE2095-2	Cabinet (Silver) (4)
7	SJJ22	Jack, Headphone(1)	N13	⊗ SNE2095-3	Cabinet (Black) (4)
8	○ SBD69-3K	Button, Display Level(Silver) (1)			
8	⊗ SBD69-1	Button, Display Level(Black) (1)			
9	SUBK9	Connection Rod (1)			
10	○ SBC475-1	Button(Silver) (4)			
10	⊗ SBC475	Button(Black) (4)			
11	SBDK9	Button (24)			
12	SBZK29	Connection Rod (24)			
13	SBC475-2	Button, Rec Mode (1)			
14	SGXK77	Spacer (1)			
15	SHRK918	Holder (1)			
16	SKUH8055N	Bottom Board(W/ Feet) (1)			
16-1	SHS2481	Foot (4)			
17	SJF3059-2N	Terminal Board, In/Output (1)			
18(E)	SGPK210-2A	Rear Panel (1)			
18(XA, PA, PE)	SGPK210-3A	Rear Panel (1)			
18(other)	SGPH8055-SH	Rear Panel Ass'y (1)			
19(EK)	△ QFC1205M	Cord, Power Source (1)			
19(PA, PE)	△ RJA52YA	Cord, Power Source (1)			
19(XL)	△ QFC1208M	Cord, Power Source (1)			
19(other)	△ SJA138-3	Cord, Power Source (1)			
20(XA, PA, PE) only	△ SJS9221-1	Socket, AC Outlet Holder (1)			
21	SUWK390	Button, Source (1)			
22	SBCKH8055N	Button, Tape 1 (1)			
23	SBCKH8055N1	Button, Tape 2 (1)			
24	SBCKH8055N2	Button, EQ (1)			
25	SBCKH8055N3				
26	○ SKCK110S	Cabinet(Silver) (1)			
26	⊗ SKCK110B	Cabinet(Black) (1)			
27	SBC337-1	Button, Power (1)			
28	SUSK30-1	Spring (4)			
29	SMXK26	Cover (1)			
30(EK)	SHR129	Bushing (1)			
30(other)	SHR127	Bushing (1)			
31	SHR301	Clamper, Lead Wire (2)			

EXPLODED VIEW



EXPLODED VIEW

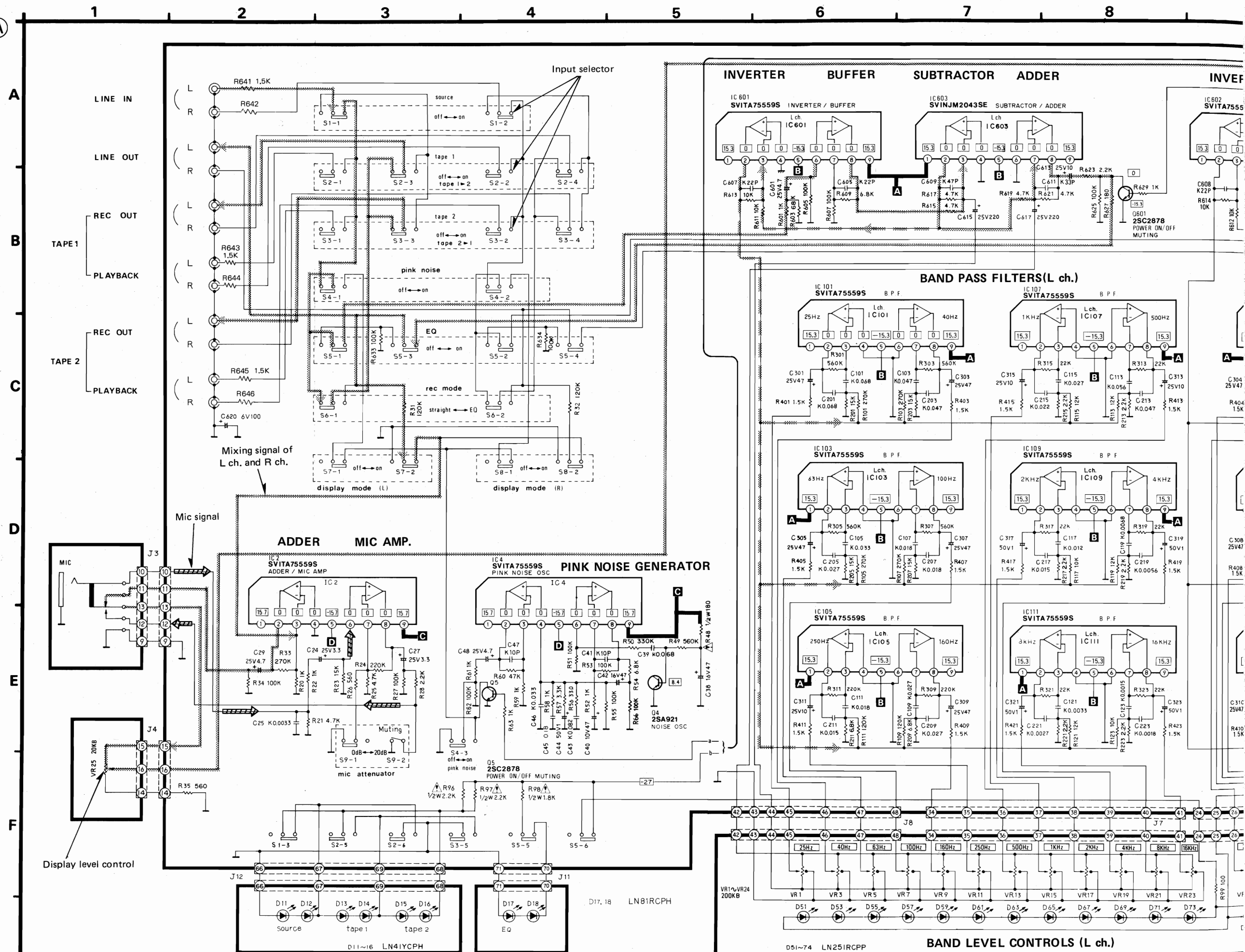
No.	Description
B	Tapping, $\oplus 3 \times 8$ (3)
B	Tapping, $\oplus 3 \times 8$ (3)
S	$\oplus 3 \times 6$ (2)
AFZ	$\oplus 2 \times 2$ (2)
S	$\oplus 3 \times 6$ (2)
FZ	$\oplus 2 \times 4$ (12)
B	Tapping, $\oplus 3 \times 8$ (3)
B	Tapping, $\oplus 3 \times 8$ (3)
FZ	$\oplus 4 \times 8$ (2)
JBZ	Tapping, $\oplus 3 \times 10$ (2)
BFZ	Tapping, $\oplus 3 \times 8$ (5)
-2	Cabinet (Silver) (4)
-3	Cabinet (Black) (4)
3	Tapping, $\oplus 3 \times 8$ (2)
Headphones, $\phi 12$ (1)	
Spring, $\phi 3$ (2)	
Power Transformer, $\phi 4$ (2)	
Power Transformer, $\phi 4$ (2)	
Spring, $\phi 3$ (1)	
4	Instruction Book (1)
7	Instruction Book (1)
5	Instruction Book (1)
9	Instruction Book (1)
8	Instruction Book (1)
6	Instruction Book (1)
1	Plug Adaptor (1)
	Plug Adaptor (1)
5	Cord, Pin-pin (2)
Carton Box (1)	
Carton Box (1)	
Pad, Left (1)	
Pad, Right (1)	
Polythylene Bag (1)	



SCHEMATIC DIAGRAM (A)

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

- Input/Output control
- Microphone amplifier
- Pink noise generator
- Band level control
- Band pass filter
- Power source



SUBTRACTOR ADDER

INVERTER BUFFER

SUBTRACTOR ADDER

FULL RANGE BAND LEVEL AMP.

IC603 SVINJM2043SE SUBTRACTOR / ADDER

IC602 SVITA75559S INVERTER/BUFFER

IC604 SVINJM2043SE SUBTRACTOR/ADDER

IC3 SVITA75559S SPE ANA BAND LEVEL AMP

D1 Signal detector SVDIS2076

BAND PASS FILTERS (L ch.)

BAND PASS FILTERS (R ch.)

POWER ON/OFF

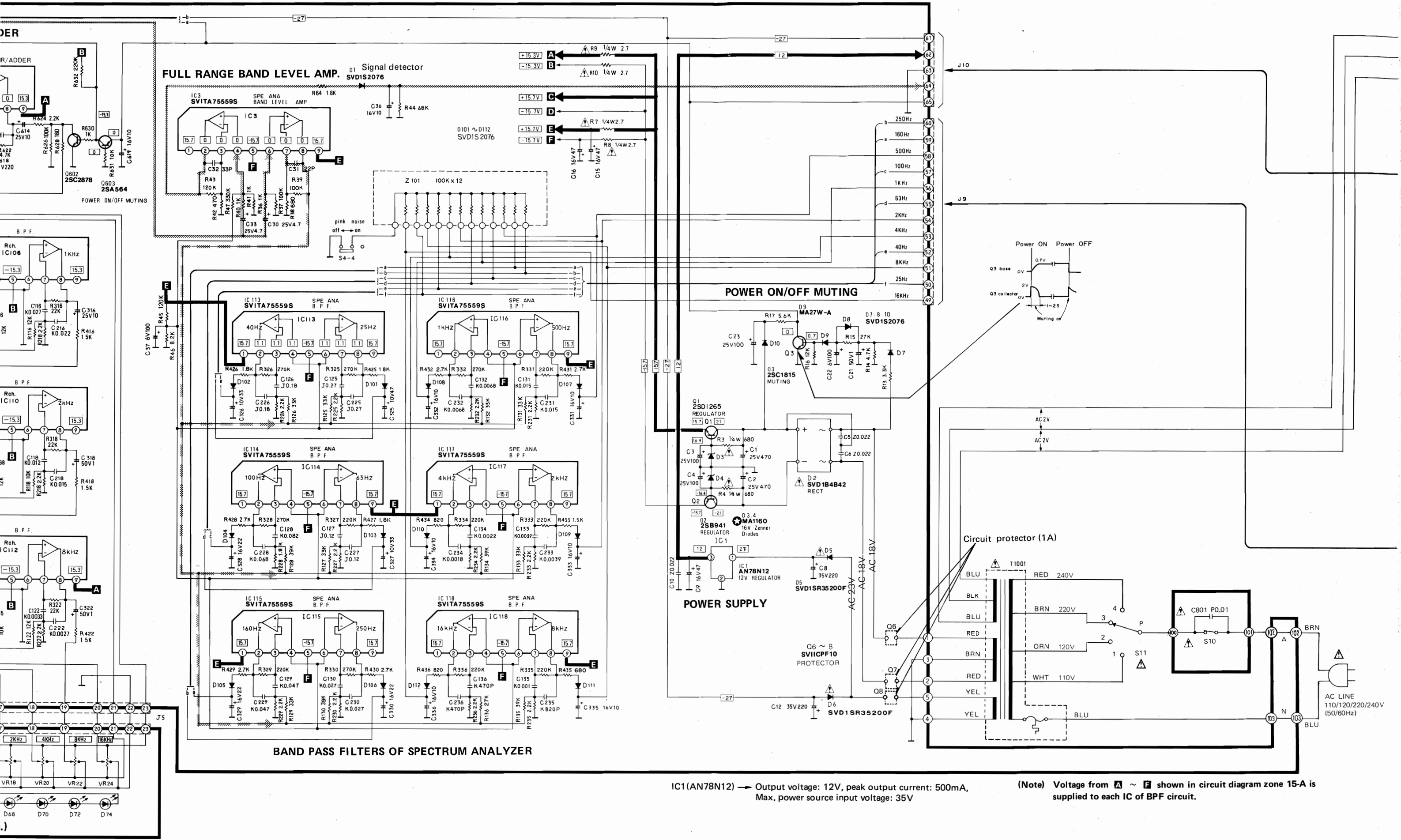
POWER SUPPLY

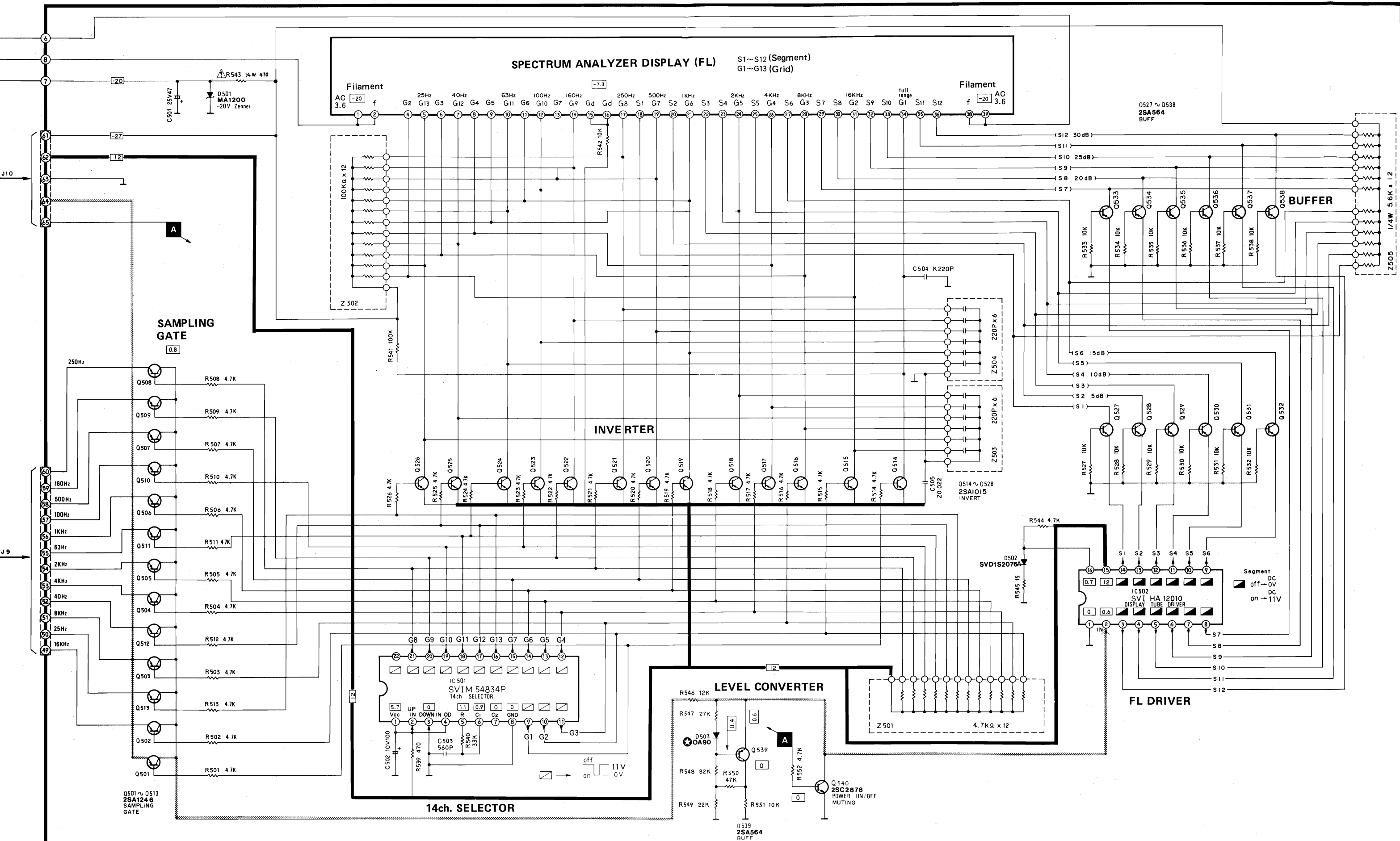
BAND PASS FILTERS OF SPECTRUM ANALYZER

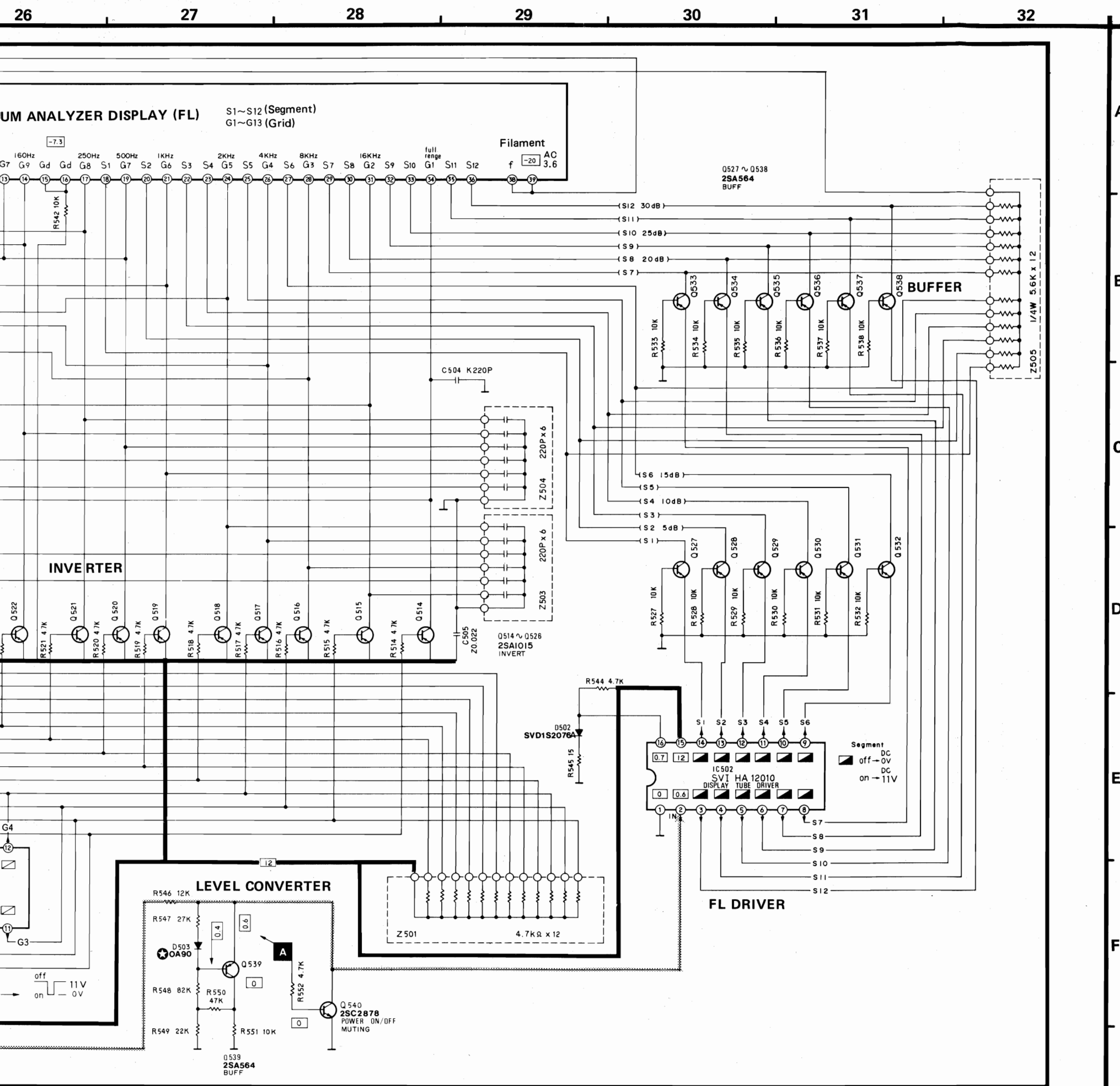
BAND LEVEL CONTROLS (L ch.)

BAND LEVEL CONTROLS (R ch.)

IC1 (AN78N12) → Output voltage
Max. power:







SCHEMATIC DIAGRAM ⑧

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

• Spectrum analyzer

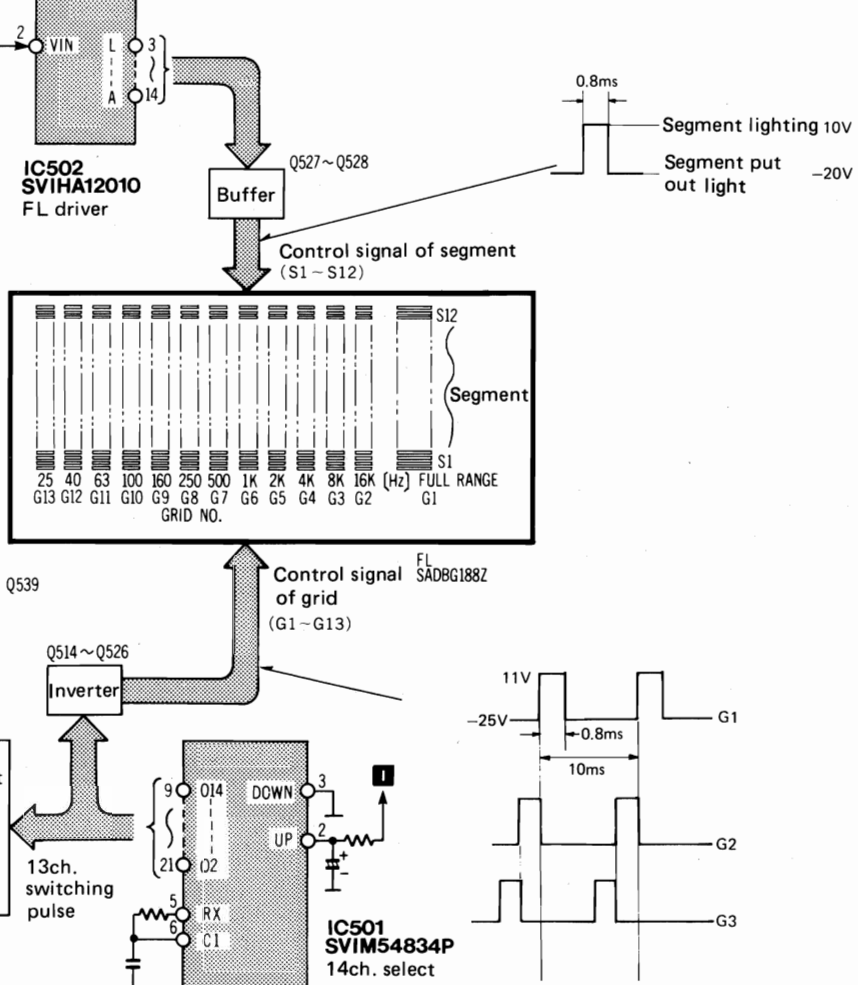
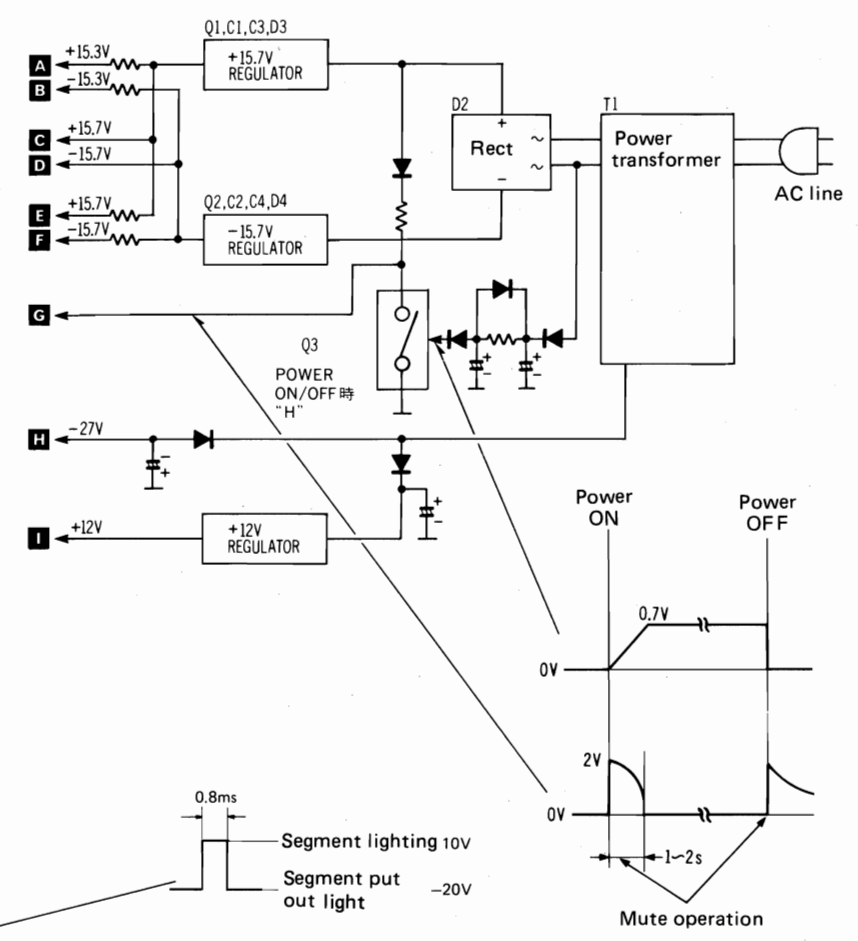
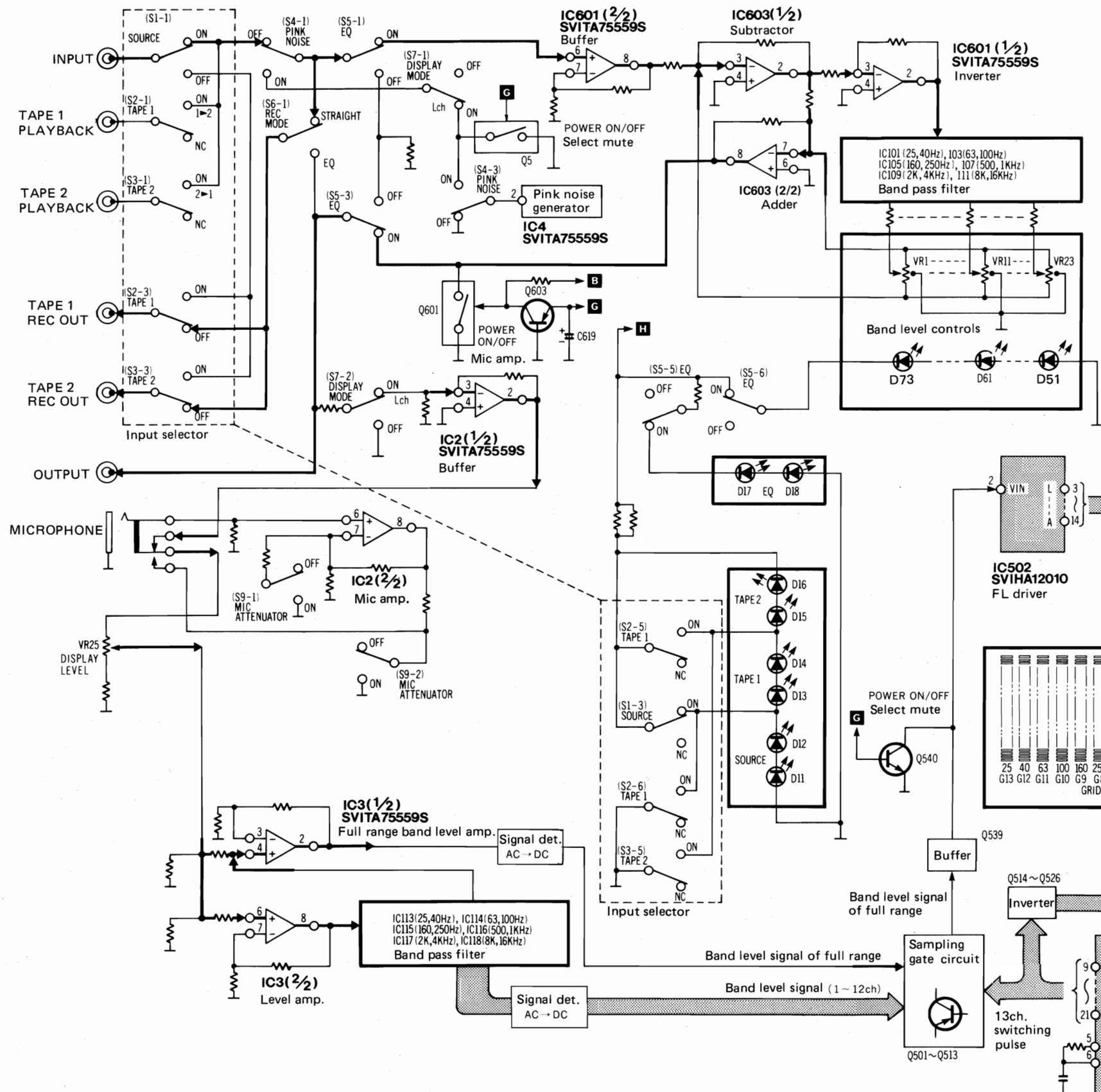
• The part No. of transistors, IC and diodes mentioned in the schematic diagram stand for production part No. Regarding the part No. with Δ mark, the production part No. are different from the replacement part No. Therefore, when placing an order for replacement parts, please use the part No. in the replacement parts list.

Notes:

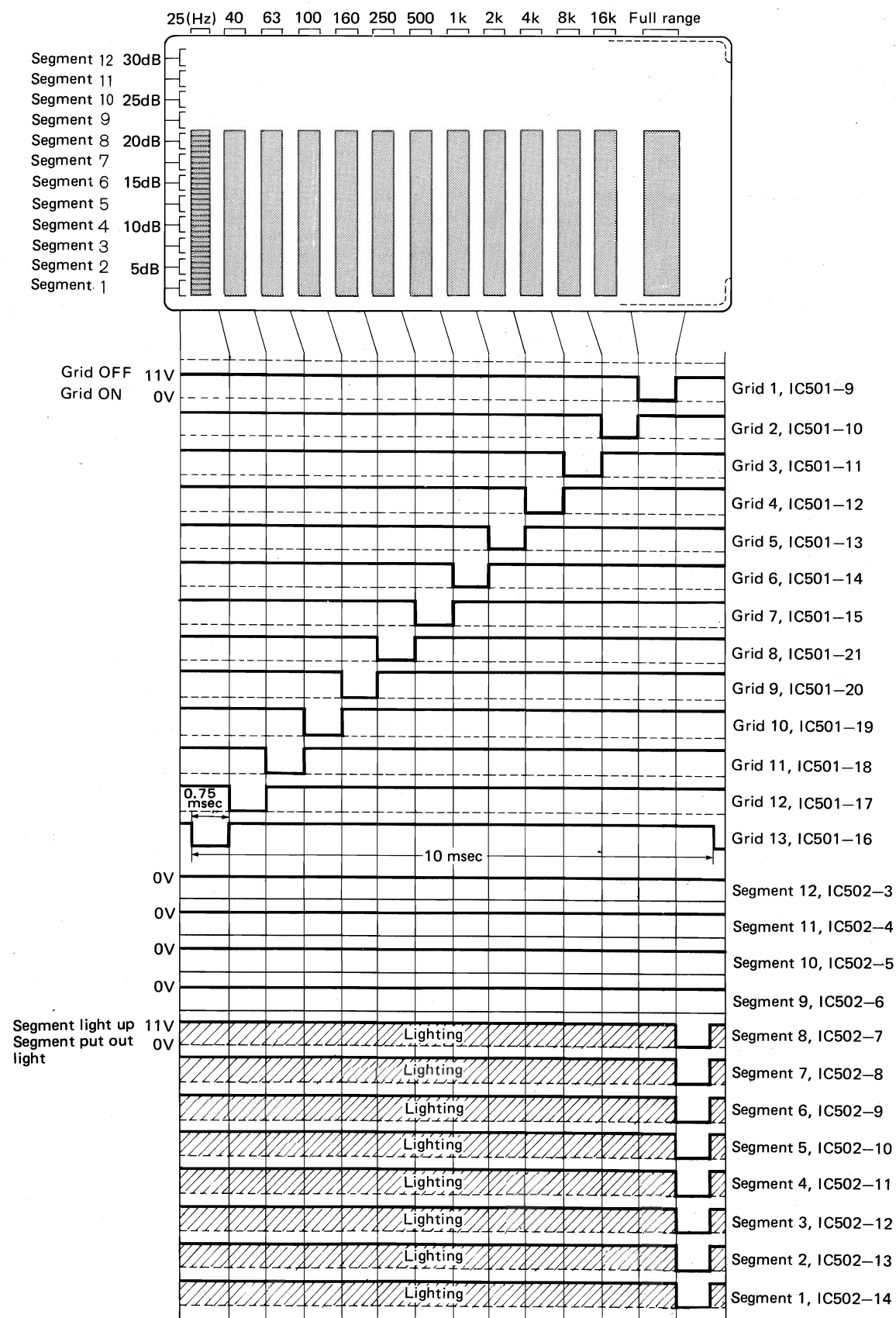
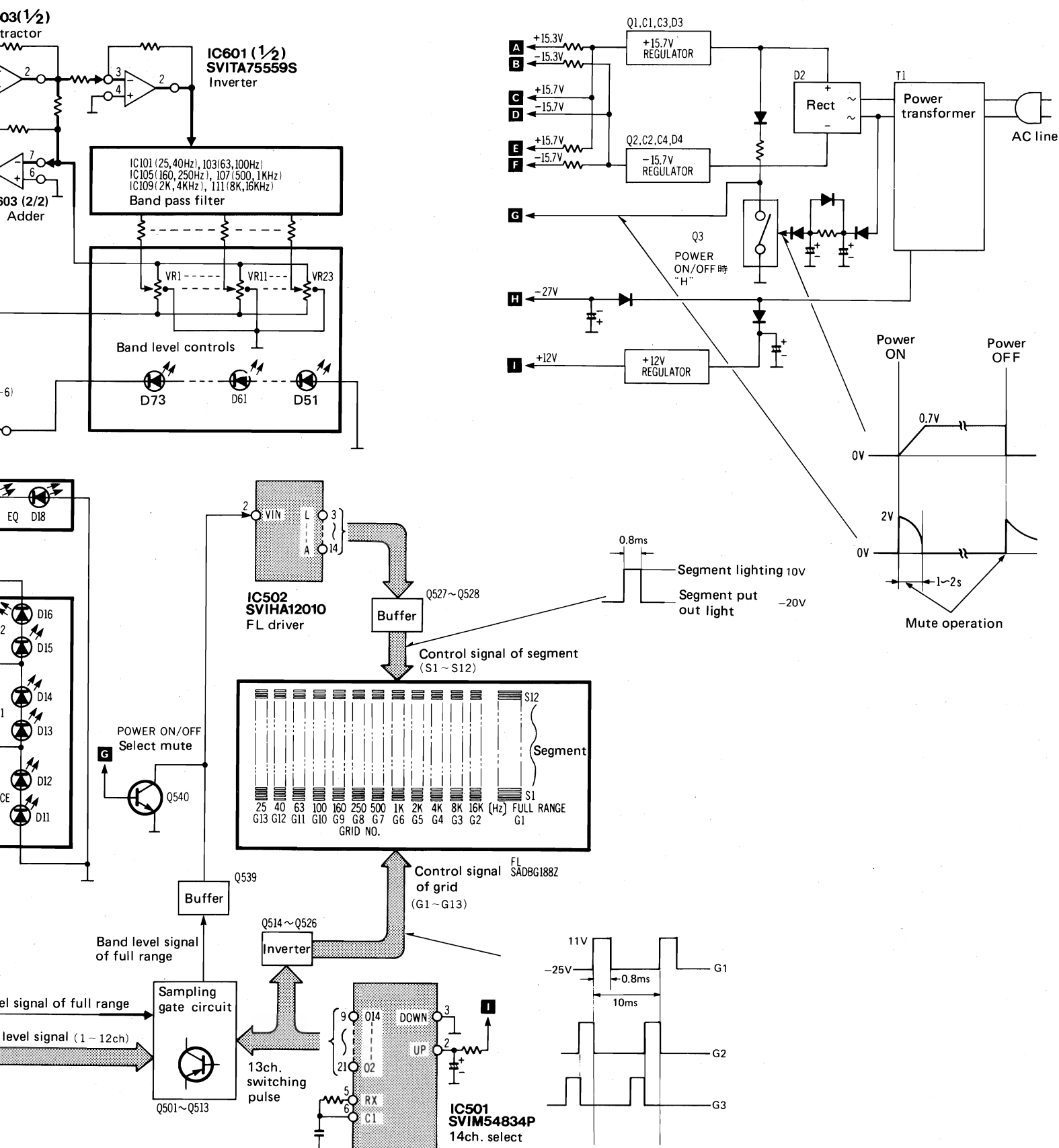
- This is basic circuit diagram (For continental Europe) of this unit.
- Regarding the circuits to be changed in the basic circuit diagram (For continental Europe) and related areas ([PA], [PE] and [XA]) refer to the booklet contains (Order No. SD83062526C9-A).
- S1 ~ S3** : Input selector in "source" position.
(S1-1 ~ S1-3 : source, S2-1 ~ S2-6 : Tape 1, S3-1 ~ S3-5 : Tape 2)
- S4-1 ~ S4-2** : Pink noise generator switch in "off" position.
- S5-1 ~ S5-6** : Equalizer on/off selector in "on" position.
- S6-1 ~ S6-2** : Recording mode selector in "EQ" position.
(straight ↔ EQ)
- S7-1 ~ S7-2** : Display mode (left channel) switch in "on" position.
- S8-1 ~ S8-2** : Display mode (right channel) switch in "on" position.
- S9-1** : Microphone attenuator switch in "0dB" position.
(0dB ↔ -20dB)
* S9-2 is muting switch incase attenuator selection.
- S10** : Power source switch in "on" position.
- S11** : Voltage selector in "220V" position.
(110V ↔ 120V ↔ 220V ↔ 240V)
- The circuit is same for both L and R channels.
- Indicated voltage values are the standard values for the DC electronic circuit tester (high impedance) with the ground point taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
- Signal lines of left channel.
- Signal lines of band pass filter.
- Signal lines of mic.
- Positive (+B) voltage lines.
- 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.

BLOCK DIAGRAM

SPECTRUM



■ SPECTRUM ANALYZER(FL) AND TIMING CHART



Service Manual

Stereo Graphic Equalizer
(With Spectrum Analyzer)

Equalizer

SH-8055

Color

(K) . . . Black Type

Color	Area
(K)	[PA] . . . Far East PX
(K)	[PE] . . . European Military

Please use this manual together with the service manual for Model No. SH-8055, Order No. SD83062526C9.

CHANGE

REPLACEMENT PARTS LIST

Notes:

- Mentioned in this parts list are only those changed in Model No. SH-8055 for destination [PA, PE] area (silver type).
- 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.

Ref. No.	Change of Parts No.		Part Name & Description	Per Set (Pcs.)	Remarks
	SH-8055 [PA,PE] Silver Type	SH-8055 [PA,PE] Black Type			
RESISTORS					
R45	ERD25TJ124	ERD25TJ154	Carbon, 150kΩ, 1/4W, ±5%	1	
R539	ERD25FJ471	ERD25FJ561	Carbon, 560Ω, 1/4W, ±5%	1	Fig. 1
R556	—————	ERD25FJ472	Carbon, 4.7kΩ, 1/4W, ±5%	1	Fig. 1
R643~646	ERD25FJ152	ERD25FJ222	Carbon, 2.2kΩ, 1/4W, ±5%	4	
CABINET and CHASSIS PARTS					
1	SGWK210PA	SGWK210BA	Front Panel	1	
2	SDUK8	SDUK8—1	Dial Plate	1	
3	SGXK75	SGXK75—1	Ornament Cover	1	
4	SGXK76	SGXK76—1	Ornament Cover	1	
5	SGUK10	SGUK10—1	Transparent Plate	1	
6	SGXK74	SGXK74—1	Sub Front Panel	1	
8	SBD69—3K	SBD69—1	Button, Display Level	1	
10	SBC475—1	SBC475	Button	4	
26	SKCK110S	SKCK110B	Cabinet	1	
SCREWS					
N1	XTB3+8B	XTB3+8BFZ	Screw, Panel M'tg.	3	
N12	SNE2095—2	SNE2095—5	Screw, Cabinet M'tg.	4	
PACKING PARTS					
P1	SPGK116	SPGK208	Carton Box	1	
P4	SPP699	SPPK47	Polyethylene Bag	1	

Technics

Panasonic Tokyo Office
Matsushita Electric Trading Co., Ltd.
1-2, 1-chome, Shiba-koen, Minato-ku, Tokyo 105 Japan

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

■ ADDITION OF RESISTOR

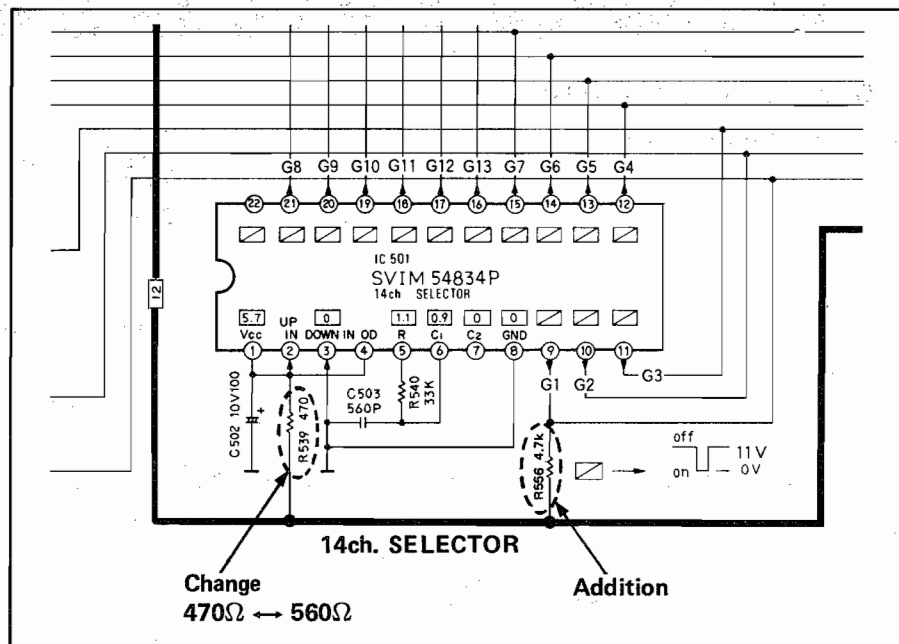


Fig. 1

■ POWER SOURCE CIRCUIT

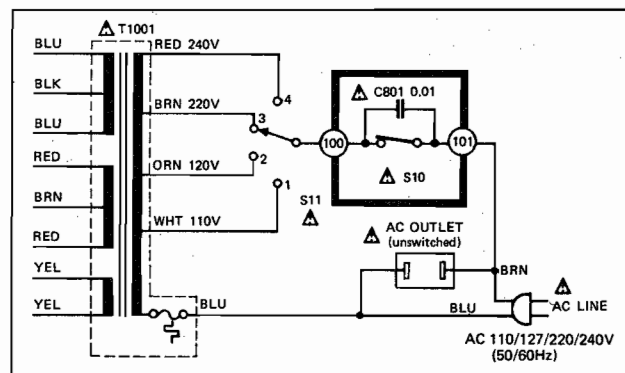


Fig. 2

Parts Change Notice

SH-8055 [M, MC]

Model No. SH-8055 S/K [E, EK, EF, EB, EH, EGA, XA, XL]

Service Manual

Order No. SD83062579C1

Order No. SD83062569C9

Please revise the original parts list in the Service Manual to conform to the change (s) shown herein. If new part numbers are shown, be sure to use them when ordering parts.

Reason for Change *The circled item indicates the reason. If no marking, see the Notes in the bottom column.						
1.	Improve performance					
2.	Change of material or dimension					
3.	To meet approved specification					
4.	Standardization					
5.	Addition					
6.	Deletion					
7.	Correction					
8.	Other					
Interchangeability Code **The circled item Indicates the interchangeability. If no marking, see the Notes in the bottom column.						
	Parts	Set Production				
A	Original New	Early Late		Early Late	Original or new parts may be used in early or late production set. Use original parts until exhausted, then stock new parts.	
B	Original New	Early Late		Early Late	Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts where possible, then stock new parts.	
C	Original New	Early Late		Early Late	New parts only may be used in early or late production sets. Stock new parts.	
D	Original New	Early Late		Early Late	Original parts may be used in early production sets only. New parts may be used in late production sets only. Stock both original and new parts.	
E	Other					
Part Number						
Model No.	Ref. No.	Original Part No.	New Part No.	Notes (***)	Part Name & Descriptions	
CABINET and CHASSIS PARTS						
SH-8055	3	SGX75	SGX76	7, E	Ornament	1
	4	SGX76	SGX75	7, E	Ornament	1
SH-8055(S/K)	3	SGXK75	SGX76	7, E	Ornament	1
	3	SGX75-1	SGX76-1	7, E	Ornament	1
	4	SGX76	SGX75	7, E	Ornament	1
	4	SGX76-1	SGX75-1	7, E	Ornament	1

File this Parts Change Notice with your copy of the Service Manual.

Technics

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Service Manual

Stereo Graphic Equalizer
(With Spectrum Analyzer)

Equalizer
SH-8055

Color

(K) . . . Black Type

Color	Area
(K)	[PA] . . . Far East PX
(K)	[PE] . . . European Military

Please use this manual together with the service manual for Model No. SH-8055, Order No. SD83062526C9.

CHANGE

REPLACEMENT PARTS LIST

Notes:

- (1) Mentioned in this parts list are only those changed in Model No. SH-8055 for destination [PA, PE] area (silver type).
 (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.

Ref. No.	Change of Parts No.		Part Name & Description	Per Set (Pcs.)	Remarks
	SH-8055 [PA,PE] Silver Type	SH-8055 [PA,PE] Black Type			
RESISTORS					
R45	ERD25TJ124	ERD25TJ154	Carbon, 150k Ω , 1/4W, $\pm 5\%$	1	
R539	ERD25FJ471	ERD25FJ561	Carbon, 560 Ω , 1/4W, $\pm 5\%$	1	Fig. 1
R556	—————	ERD25FJ472	Carbon, 4.7k Ω , 1/4W, $\pm 5\%$	1	Fig. 1
R643~646	ERD25FJ152	ERD25FJ222	Carbon, 2.2k Ω , 1/4W, $\pm 5\%$	4	
CABINET and CHASSIS PARTS					
1	SGWK210PA	SGWK210BA	Front Panel	1	
2	SDUK8	SDUK8-1	Dial Plate	1	
3	SGXK75	SGXK75-1	Ornament Cover	1	
4	SGXK76	SGXK76-1	Ornament Cover	1	
5	SGUK10	SGUK10-1	Transparent Plate	1	
6	SGXK74	SGXK74-1	Sub Front Panel	1	
8	SBD69-3K	SBD69-1	Button, Display Level	1	
10	SBC475-1	SBC475	Button	4	
26	SKCK110S	SKCK110B	Cabinet	1	
SCREWS					
N1	XTB3+8B	XTB3+8BFZ	Screw, Panel M'tg.	3	
N12	SNE2095-2	SNE2095-5	Screw, Cabinet M'tg.	4	
PACKING PARTS					
P1	SPGK116	SPGK208	Carton Box	1	
P4	SPP699	SPPK47	Polyethylene Bag	1	

Technics

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■ ADDITION OF RESISTOR

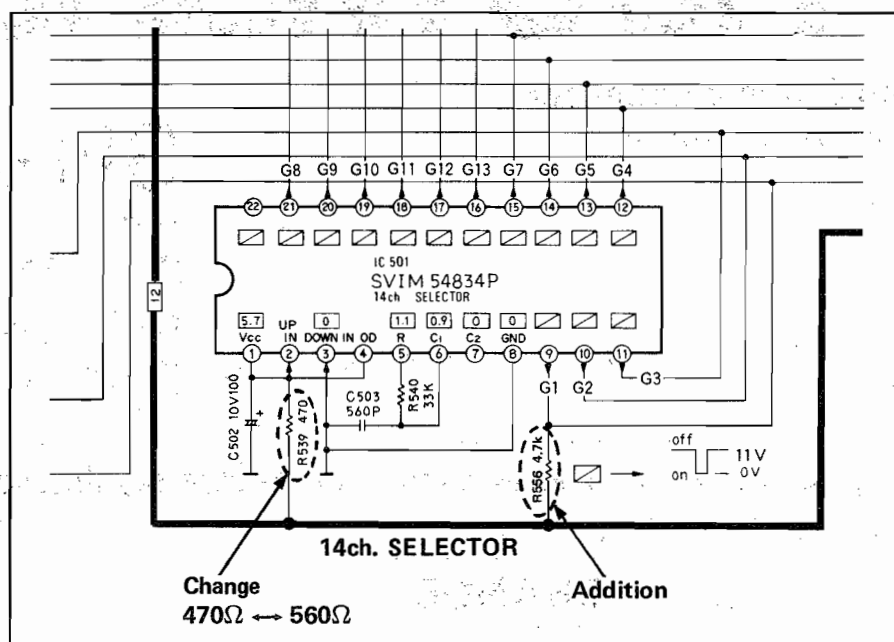


Fig. 1

■ POWER SOURCE CIRCUIT

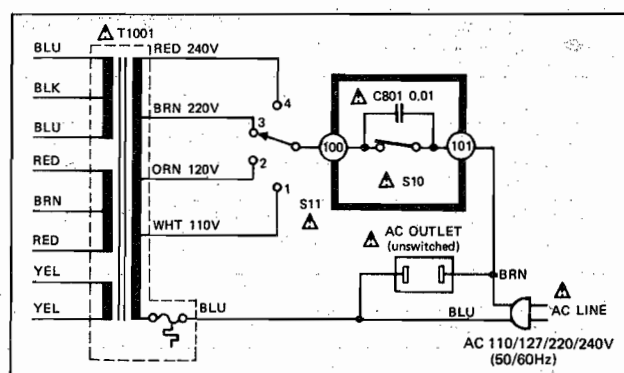


Fig. 2

Stereo Graphic Equalizer SH-8055/SH-8055(K)

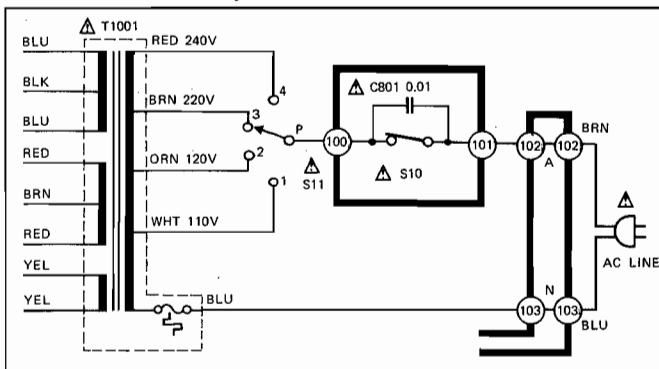
DEUTSCH

- This booklet contains the specifications for SH-8055, written in German, French and Spanish, and the circuits to be changed according to areas.
- File this manual together with the SH-8055 service manual (Order No. SD83062526C9).
- Das vorliegende Büchlein enthält die Spezifikationen für SH-8055 in deutscher, französischer und spanischer Sprache.
- Bewahren Sie das Büchlein zusammen mit der Bedienungsanleitung für SH-8055 (Bestell-Nr. SD83062526C9).
- Cette brochure contient les spécifications pour le SH-8055, écrites en allemand, en français et en espagnol.
- Classer ce manuel en même temps qu'avec le manuel de service du SH-8055 (N° d'ordre : (SD83062526C9).
- Este librito contiene la especificaciones para SH-8055, escritos en alemán, francés y español.
- Guardar este manual juntamente con el manual de servicio de SH-8055 (Pedido N°. SD83062526C9).

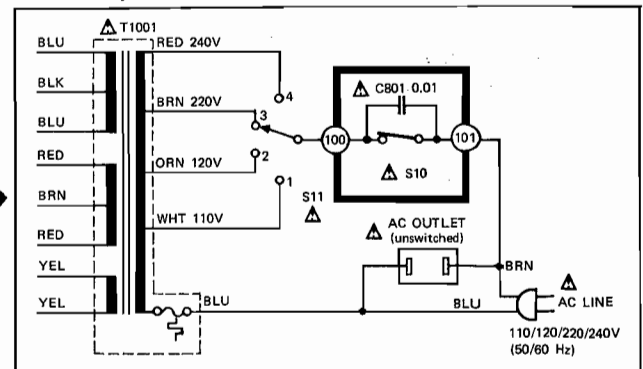
CHANGE OF SCHEMATIC DIAGRAM

Power source

For continental Europe



For [XA], [PA] and [PE] areas



DEUTSCH

TECHNISCHE DATEN (Spezifikationen Können infolge von Verbesserungen ohne Ankündigung geändert werden.)

(DIN 45 500)

Frequenzgang (mittelstellung drehen)	: 5 Hz~100 kHz, -1 dB
Maximalausgangsspannung	: 8 V (1 kHz, THD 0,01%)
Nennausgangsspannung	: 1 V
Nennklirrfaktor	: 0,003% (20 Hz~20 kHz) 0,002% (1 kHz)
Eingangsspannung	: 1 V
Geräuschabstand	: 102 dB (110 dB, IHF, A)
Maximaleingangsspannung	: 8 V (1 kHz)
Eingangsimpedanz	: 47 kΩ
Verstärkung	: 0±1 dB
Kanalsymmetrie	
250 Hz~6300 Hz	: ±0,5 dB
Kanaltrennung 1 kHz	: 70 dB

Frequenzgangregler	: +12 dB~-12 dB (12 Regler, stufenlos verstellbar)
Mittelfrequenzen	: 25 Hz, 40 Hz, 63 Hz, 100 Hz, 160 Hz, 250 Hz, 500 Hz, 1 kHz, 2 kHz, 4 kHz, 8 kHz, 16 kHz
Ausgangsspannung für rosa Rauschen	: 50 mV
Mikrofonempfindlichkeit	: über -74 dBV/μ bar (1 kHz)
Mikrofondämpfung	: -20 dB
ALLGEMEINE DATEN	
Stromversorgung	: Wechselstrom, 110 V/120 V/220 V/ 240 V, 50 Hz/60 Hz
Leistungsaufnahme	: 17 W
Abmessungen (H×B×T)	: 108×430×270 mm (4-1/4"×16-15/16"×10-5/8")
Gewicht	: 4,1 kg (9,0 lb)

FRANÇAIS

CARACTERISTIQUES

(Sujet a changement sans preavis.)

(DIN 45 500)

Réponse de fréquence (position centrale)	: 5 Hz~100 kHz, -1 dB
Tension de sortie maximale	: 8 V (1 kHz, THD 0,01%)
Tension de sortie nominale	: 1 V
Distortion harmonique total	: 0,003% (20 Hz~20 kHz) 0,002% (1 kHz)
Sensibilité d'entrée	: 1 V
Signal/Bruit	: 102 dB (110 dB, IHF' A)
Tension d'entrée maximale	: 8 V (1 kHz)
Impédance d'entrée	: 47 kΩ
Gain	: 0±1 dB
Equilibrage de canal 250 Hz~6300 Hz	: ±0,5 dB
Séparation de canal 1 kHz	: 70 dB

Commandes de niveau de gamme

: +12 dB~-12 dB
(12 éléments, continuellement
variables)

Fréquences charnières : 25 Hz, 40 Hz, 63 Hz, 100 Hz,
160 Hz, 250 Hz, 500 Hz, 1 kHz,
2 kHz, 4 kHz, 8 kHz, 16 kHz

**Tension de sortie des
bruits roses** : 50 mV

**Sensibilité de microphone
compatible** : plus de -74 dBV/μbar (1 kHz)

**Atténuateur de
microphone** : -20 dB

GENERALITES

Alimentation : CA. 110 V/120 V/220 V/240 V,
50 Hz/60 Hz

Consommation : 17 W

**Dimensions
(h×l×pr)** : 108×430×270 mm
(4-1/4"×16-15/16"×10-5/8")

Poids : 4,1 kg (9,0 lb)

ESPAÑOL

ESPECIFICACIONES

(Estas especificaciones estan sujetas a cualquier cambio sin previo aviso.)

(DIN 45 500)

Respuesta de frecuencia (posición central)	: 5 Hz~100 kHz, -1 dB
Tensión de salida máxima	: 8 V (1 kHz, THD 0.01%)
Tensión de salida de régimen	: 1 V
Distorsión armónica total nominal	: 0.003% (20 Hz~20 kHz) 0.002% (1 kHz)
Sensibilidad de entrada	: 1 V
Relación d señal ruido	: 102 dB (110 dB, IHF' A)
Tensión de entrada máxima	: 8 V (1 kHz)
Impedancia de entrada	: 47 kΩ
Ganancia	: 0±1 dB
Equilibrio de canales 250 Hz~6300 Hz	: ±0,5 dB
Separación de canales 1 kHz	: 70 dB

Controles de nivel de banda

: +12 dB~-12 dB
(12 elementos, continuamente
variables)

Frecuencia central : 25 Hz, 40 Hz, 63 Hz, 100 Hz,
160 Hz, 250 Hz, 500 Hz, 1 kHz,
2 kHz, 4 kHz, 8 kHz, 16 kHz

**Voltaje de salida del
ruido rosado** : 50 mV

**Sensibilidad del
micrófono compatible** : por sobre -74 dBV/μbar (1 kHz)

Atenuador de micrófono : -20 dB

EN GENERAL

**Alimentación de
corriente** : C.A. de 110 V/120 V/220 V/240 V,
50 Hz/60 Hz

Consumo de corriente : 17 W

**Dimensiones
(alto×ancho×prof.)** : 108×430×270 mm
(4-1/4"×16-15/16"×10-5/8")

Peso : 4,1 kg (9,0 lb)