

STEREO AMPLIFIER

SA-8500II

S, HG, KC

<ART-207-0>

Additional **Original**
Service Manual

MODEL SA-8500II COMES IN FOUR VERSIONS DISTINGUISHED AS FOLLOWS:

Type	Voltage	Remarks
KU	120V only	UL (U.S.A.) approved
KC	120V only	CSA (Canada) approved
HG	220V and 240V (Switchable)	SEMKO (Sweden), NEMKO (Norway), DEMKO (Denmark) and EI (Finland) approved
S	110V, 120V, 220V and 240V (Switchable)	General export model

This additional service manual is applicable to the S, HG and KC types. For servicing of the S, HG and KC types please refer to the KU type manual <ART-197> with exception of descriptions in this manual.

CONTRAST OF MISCELLANEOUS PARTS

NOTE:

- Capacitors: in μF unless otherwise noted p:pF
- Resistors: in Ω , $\frac{1}{4}W$ unless otherwise noted k:k Ω , M:M Ω

SWITCHES

Symbol	Description	Part No.			
		KU-type	KC-type	HG-type	S-type
S13	Lever switch (POWER)	ASK-124	ASK-124	ASK-127	ASK-128
S16	Plug in selector	.....	.....	AKX-037*	AKR-031**

* 2-position line voltage selector (220V/240V)

** 4-position line voltage selector (110V/120V/220V/240V) with fuse holder

TRANSFORMERS

Symbol	Description	Part No.			
		KU-type	KC-type	HG-type	S-type
T1	Power transformer (L)	ATT-366	ATT-368	ATT-370	ATT-372
T2	Power transformer (R)	ATT-367	ATT-369	ATT-371	ATT-373

FUSES

Symbol	Description	Part No.			
		KU-type	KC-type	HG-type	S-type
FU1	Fuse 3A (for 120V)	AEK-101	AEK-101	.....	.....
	Fuse 2.5A (for 220V or 240V)	.....	.....	.....	AEK-102
	Fuse 1.6A (for 220V or 240V)	.....	.....	AEK-405	.....
	Fuse 5A (for 110V or 120V)	.....	.....	.....	AEK-108
FU2	Fuse 3A (for 120V)	AEK-101	AEK-101	.....	.....
	Fuse 1.6A (for 220V or 240V)	.....	.....	AEK-405	.....

OTHERS

Symbol	Description	Part No.			
		KU-type	KC-type	HG-type	S-type
	AC socket (AC OUTLETS)	AKP-004	AKP-004	.....	AKP-004
	Recessed plug (AC INLET)	.....	.....	AKP-008	.....
	AC power cord	ADG-005	ADG-005	.....	ADG-017
	Packing case	AHD-430	AHD-431	AHD-432	AHD-430
	Switch assembly	AWS-108	AWS-110	AWS-112	AWS-113
	5P connector assembly	.....	.....	AWX-062	AWX-062
	Power amplifier assembly	AWH-051	AWH-051	AWH-061	AWH-051

CAPACITORS

Symbol	Description	Part No.			
		KU-type	KC-type	HG-type	S-type
C11	Ceramic 0.01 125V	.....	ACG-014	.....	.....
C12	Ceramic 0.01 250V	ACG-001	.....	.....	ACG-001
	Ceramic 0.01 250V	.....	.....	.....	ACG-001

FURNISHED PARTS

Symbol	Description	Part No.			
		KU-type	KC-type	HG-type	S-type
	Operating instructions (English)	ARB-205	ARB-205	ARB-216	ARB-216
	Operating instructions (German/French)	.....	.....	ARD-106	.....
	Fuse 2.5A	.....	.....	.....	AEK-102
	Fuse 5A	.....	.....	.....	AEK-108
	Vinyl pouch (for fuses)	.....	.....	.....	E11-033

SA-8500II/KC

Miscellaneous Parts for KC-type

NOTE:

- Capacitors: in μF unless otherwise noted p:pF
- Resistors: in Ω , $\frac{1}{4}W$ unless otherwise noted k:k Ω , M:M Ω

SEMICONDUCTORS

Symbol	Description	Part No.
Q1	Transistor	2SD587A/A/-R or Q
Q2	Transistor	2SD587A/A/-R or Q
Q3	Transistor	2SB617A/A/-R or Q
Q4	Transistor	2SB617A/A/-R or Q
Q5	Transistor	2SD587A/A/-R or Q
Q6	Transistor	2SD587A/A/-R or Q
Q7	Transistor	2SB617A/A/-R or Q
Q8	Transistor	2SB617A/A/-R or Q

CAPACITORS

Symbol	Description	Part No.
C2	Ceramic 0.047 50V	CKDYF 473Z 50
C3	Ceramic 0.047 50V	CKDYF 473Z 50
C4	Ceramic 0.047 50V	CKDYF 473Z 50
C5	Ceramic 0.047 50V	CKDYF 473Z 50
C6	Ceramic 0.047 50V	CKDYF 473Z 50
C7	Electrolytic 10,000 50V	ACH-064
C8	Electrolytic 10,000 50V	ACH-064
C9	Electrolytic 10,000 50V	ACH-064
C10	Electrolytic 10,000 50V	ACH-064
C11	Ceramic 0.01 125V	ACG-014

- The rear panel components of KC-type are the same as KU-type.

LAMP, FUSES

Symbol	Description	Part No.
PL1	Lamp with leads 8V, 50mA	AEL-081
FU1	Fuse 3A	AEK-101
FU2	Fuse 3A	AEK-101

SWITCH

Symbol	Description	Part No.
S13	Lever switch (POWER)	ASK-124

TRANSFORMERS

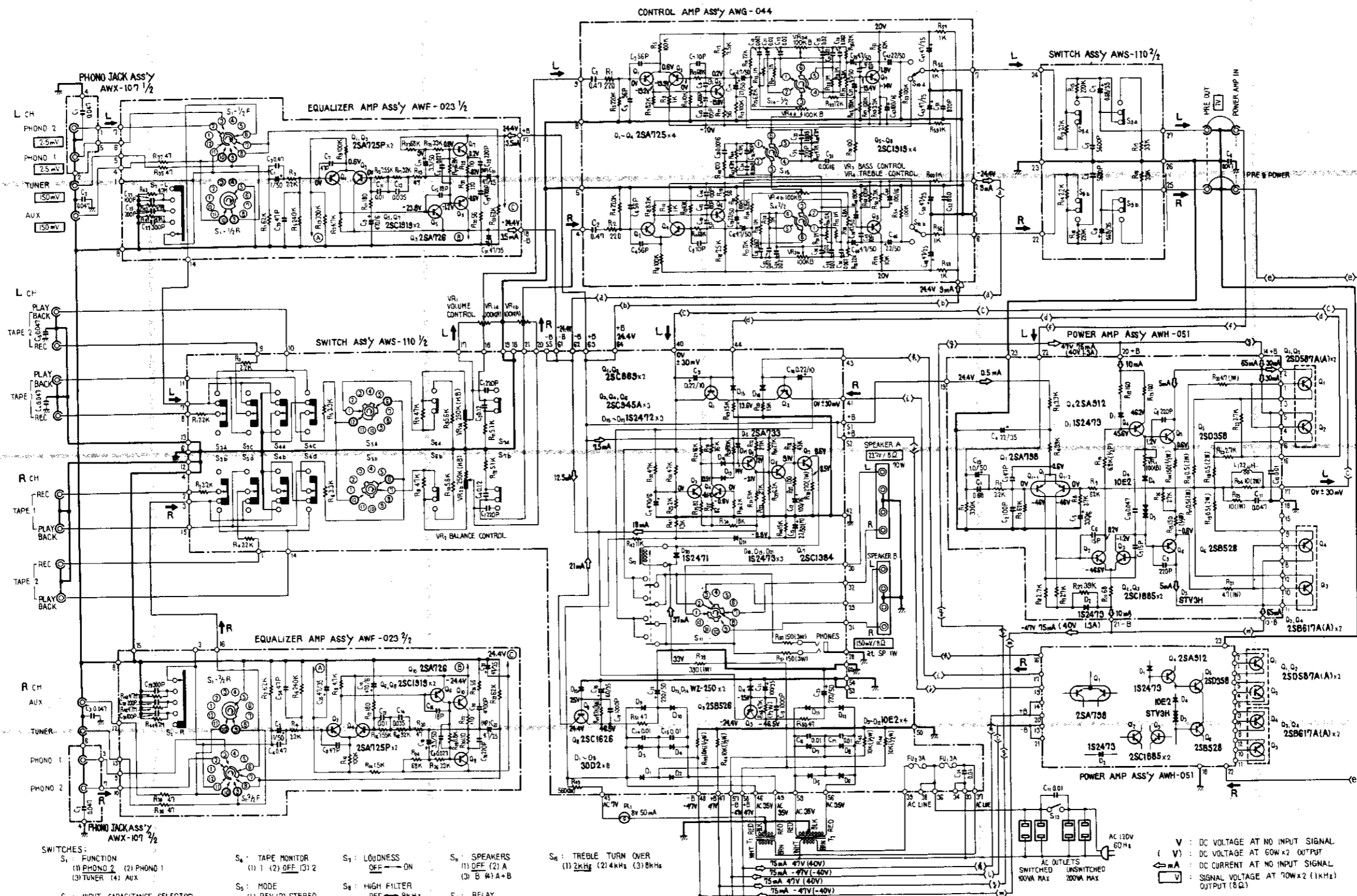
Symbol	Description	Part No.
T1	Power transformer (L)	ATT-368
T2	Power transformer (R)	ATT-369

RESISTOR

Symbol	Description	Part No.
VR1	Variable resistor 100k 32-step (VOLUME)	ACV-171

Schematic Diagram for KC-type

NOTE:
The indicated semiconductors are representative ones only. Other alternative semiconductors may be used and are listed in the parts list.



- SWITCHES:
- S₁: FUNCTION
(1) PHONO 2 (2) PHONO 1
(3) TUNER (4) AUX
 - S₂: INPUT CAPACITANCE SELECTOR
(1) 100 (2) 220 (3) 300 (4) 400
 - S₃: DUPLICATE
(1) 1 → 2 (2) OFF (3) 2 → 1
 - S₄: TAPE MONITOR
(1) 1 (2) OFF (3) 2
 - S₅: MODE
(1) REV (2) STEREO
(3) L-R (4) L 151 R
 - S₆: MUTING
OFF → ON
 - S₇: LOUDNESS
OFF → ON
 - S₈: HIGH FILTER
OFF → 8KHz
 - S₉: LOW FILTER
OFF → 15Hz
 - S₁₀: TONE
OFF → ON
 - S₁₁: SPEAKERS
(1) OFF (2) A
(3) B (4) A+B
 - S₁₂: RELAY
 - S₁₃: POWER
OFF → ON
 - S₁₄: BASS TURN OVER
(1) 100Hz (2) 200Hz (3) 400Hz
 - S₁₅: TREBLE TURN OVER
(1) 2KHz (2) 4KHz (3) 8KHz

RESISTORS:
IN OHM, 1/4W, ±5% TOLERANCE
UNLESS OTHERWISE NOTED
K: KΩ M: MΩ

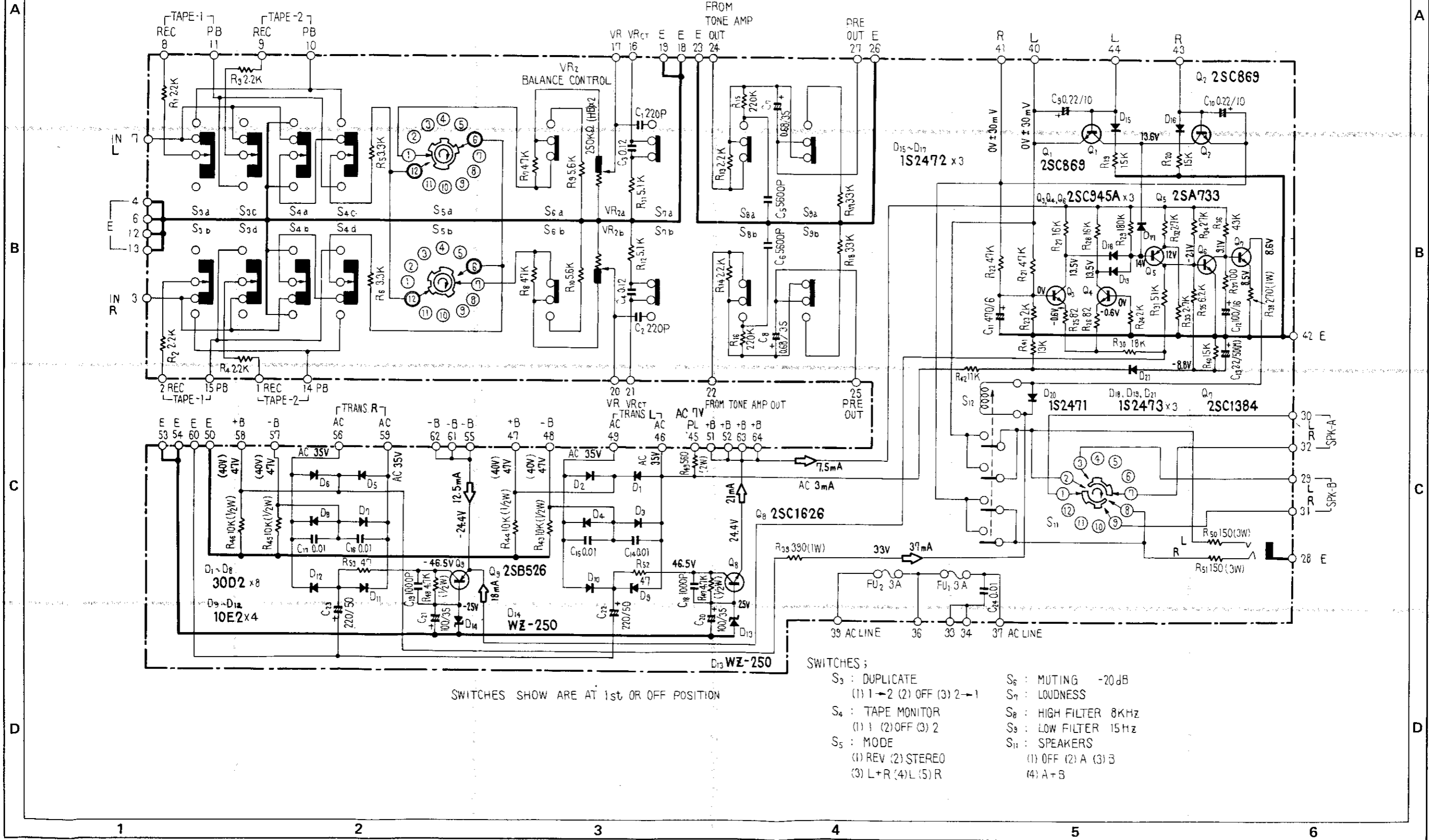
CAPACITORS:
IN μF UNLESS OTHERWISE
NOTED P: pF

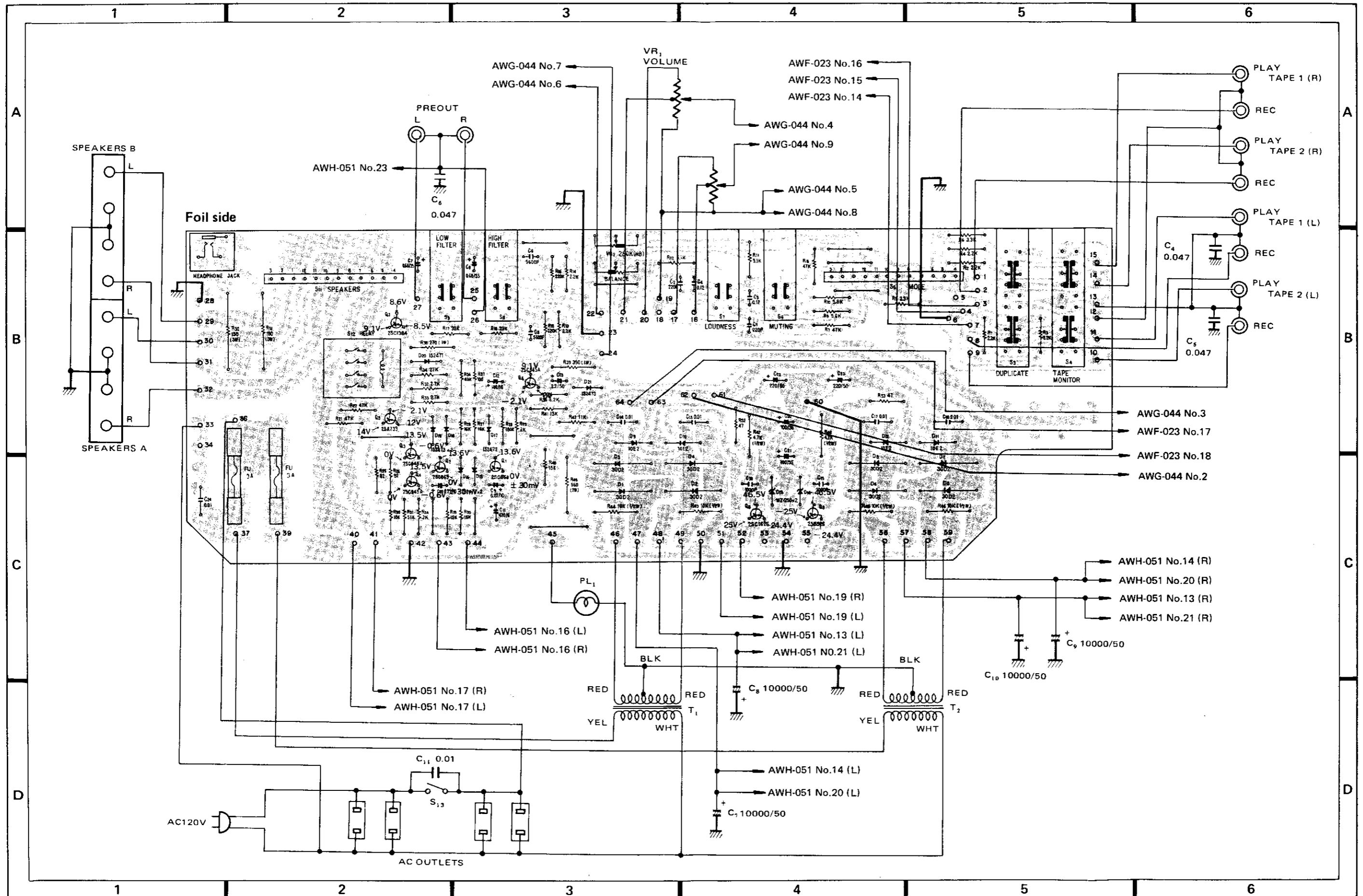
V: DC VOLTAGE AT NO INPUT SIGNAL
() V: DC VOLTAGE AT 60W X2 OUTPUT
mA: DC CURRENT AT NO INPUT SIGNAL
V: SIGNAL VOLTAGE AT 70W X2 (1KHz) OUTPUT (8Ω)

SA-8500II/KC

Switch Assembly (AWS-110)

NOTE:
This assembly is applicable to the KC-type.





SA-8500II/KC

Parts List of Switch Assembly (AWS-110, for KC)

SEMICONDUCTORS

Symbol	Description	Part No.
Q1	Transistor	2SC869-D or C
Q2	Transistor	2SC869-D or C
Q3	Transistor	2SC945A-Q or R
Q4	Transistor	2SC945A-Q or R
Q5	Transistor	2SA733-Q or R (2SA823-Q or R)
Q6	Transistor	2SC945A-Q or R
Q7	Transistor	2SC1384-Q or R
Q8	Transistor	2SC1626-O or Y (2SD381-M or L)
Q9	Transistor	2SB526-C or D (2SA816-O or Y)
D1	Diode	30D2 (GP-25D) (ERC01-02)
D2	Diode	30D2 (GP-25D) (ERC01-02)
D3	Diode	30D2 (GP-25D) (ERC01-02)
D4	Diode	30D2 (GP-25D) (ERC01-02)
D5	Diode	30D2 (GP-25D) (ERC01-02)
D6	Diode	30D2 (GP-25D) (ERC01-02)
D7	Diode	30D2 (GP-25D) (ERC01-02)
D8	Diode	30D2 (GP-25D) (ERC01-02)
D9	Diode	10E2 (S1B01-02) (1S1886)
D10	Diode	10E2 (S1B01-02) (1S1886)
D11	Diode	10E2 (S1B01-02) (1S1886)

Symbol	Description	Part No.
D12	Diode	10E2 (S1B01-02) (1S1886)
D13	Zener diode	WZ-250
D14	Zener diode	WZ-250
D15	Diode	1S2472 (1S1554)
D16	Diode	1S2472 (1S1554)
D17	Diode	1S2472 (1S1554)
D18	Diode	1S2473 (1S1555)
D19	Diode	1S2473 (1S1555)
D20	Diode	1S2471
D21	Diode	1S2473 (1S1555)

SWITCHES

Symbol	Description	Part No.
S3	Lever switch (DUPLICATE)	ASK-113
S4	Lever switch (MONITOR)	ASK-113
S5	Rotary switch (MODE)	ASD-053
S6	Lever switch (MUTING)	ASK-110
S7	Lever switch (LOUDNESS)	ASK-110
S8	Lever switch (HIGH FILTER)	ASK-110
S9	Lever switch (LOW FILTER)	ASK-110
S11	Rotary switch (SPEAKERS)	ASD-054
S12	Relay	ASR-023

RESISTORS

Symbol	Description	Part No.
R1	Carbon film 2.2k	RD½PS 222J
R2	Carbon film 2.2k	RD½PS 222J
R3	Carbon film 2.2k	RD½PS 222J
R4	Carbon film 2.2k	RD½PS 222J
R5	Carbon film 3.3k	RD½PS 332J
R6	Carbon film 3.3k	RD½PS 332J
R7	Carbon film 47k	RD½PS 473J
R8	Carbon film 47k	RD½PS 473J
R9	Carbon film 5.6k	RD½PS 562J
R10	Carbon film 5.6k	RD½PS 562J
R11	Carbon film 5.1k	RD½PS 512J
R12	Carbon film 5.1k	RD½PS 512J
R13	Carbon film 2.2k	RD½PS 222J

Symbol	Description	Part No.
R14	Carbon film 2.2k	RD½PS 222J
R15	Carbon film 220k	RD½PS 224J
R16	Carbon film 220k	RD½PS 224J
R17	Carbon film 33k	RD½PS 333J
R18	Carbon film 33k	RD½PS 333J
R19	Carbon film 15k	RD½PS 153J
R20	Carbon film 15k	RD½PS 153J
R21	Carbon film 47k	RD½PS 473J
R22	Carbon film 47k	RD½PS 473J
R23	Carbon film 2k	RD½PS 202J
R24	Carbon film 2k	RD½PS 202J
R25	Carbon film 82	RD½PS 820J
R26	Carbon film 82	RD½PS 820J
R27	Carbon film 16k	RD½PS 163J
R28	Carbon film 16k	RD½PS 163J
R29	Carbon film 180k	RD½PS 184J
R30	Carbon film 18k	RD½PS 183J
R31	Carbon film 51k	RD½PS 513J
R32	Carbon film 2.7k	RD½PS 272J
R33	Carbon film 2.7k	RD½PS 272J
R34	Carbon film 27k	RD½PS 273J
R35	Carbon film 6.2k	RD½PS 622J
R36	Carbon film 43k	RD½PS 433J
R37	Carbon film 100	RD½PS 101J
R38	Metal oxide 270 1W	RS1P 271J
R39	Metal oxide 390 1W	RS1P 391J
R40	Carbon film 15k	RD½PS 153J
R41	Carbon film 13k	RD½PS 133J
R42	Carbon film 11k	RD½PS 113J
R43	Carbon film 10k ½W	RD½PS 103J
R44	Carbon film 10k ½W	RD½PS 103J
R45	Carbon film 10k ½W	RD½PS 103J
R46	Carbon film 10k ½W	RD½PS 103J
R47	Carbon film 4.7k ½W	RD½PS 472J
R48	Carbon film 4.7k ½W	RD½PS 472J
R49	Metal oxide 560 2W	RS2P 561J
R50	Metal oxide 150 3W	RS3P 151J
R51	Metal oxide 150 3W	RS3P 151J
R52	Carbon film 47	RD½PSF 470J
R53	Carbon film 47	RD½PSF 470J
VR2	Variable resistor 250k-HB (BALANCE)	ACV-172

CAPACITORS

Symbol	Description	Part No.
C1	Ceramic 220p 50V	CCDSL 221K 50
C2	Ceramic 220p 50V	CCDSL 221K 50
C3	Mylar 0.12 50V	CQMA 124K 50
C4	Mylar 0.12 50V	CQMA 124K 50
C5	Mylar 0.0056 50V	CQMA 562J 50

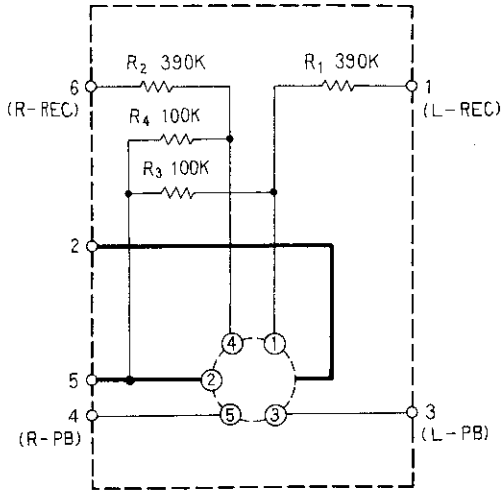
Symbol	Description	Part No.
C6	Mylar 0.0056 50V	CQMA 562J 50
C7	Electrolytic 0.68 35V	CSZA R68M 35
C8	Electrolytic 0.68 35V	CSZA R68M 35
C9	Electrolytic 0.22 10V	CSSA R22M 10
C10	Electrolytic 0.22 10V	CSSA R22M 10
C11	Electrolytic 470 6V	CEA 471P 6
C12	Electrolytic 100 16V	CEA 101P 16
C13	Electrolytic 2.2 50V	ACH-317
C14	Ceramic 0.01 150V	ACG-004
C15	Ceramic 0.01 150V	ACG-004
C16	Ceramic 0.01 150V	ACG-004
C17	Ceramic 0.01 150V	ACG-004
C18	Ceramic 0.001 50V	CKDYF 102Z 50
C19	Ceramic 0.001 50V	CKDYF 102Z 50
C20	Electrolytic 100 35V	CEA 101P 35
C21	Electrolytic 100 35V	CEA 101P 35
C22	Electrolytic 220 50V	CEA 221P 50
C23	Electrolytic 220 50V	CEA 221P 50
C24	Ceramic 0.01 125V	ACG-014

OTHERS

Symbol	Description	Part No.
	Phone jack (PHONES)	AKN-008
	Fuse clip	AKR-013
	Washer faced nut M9	ABN-024
	Special nut	ABN-027

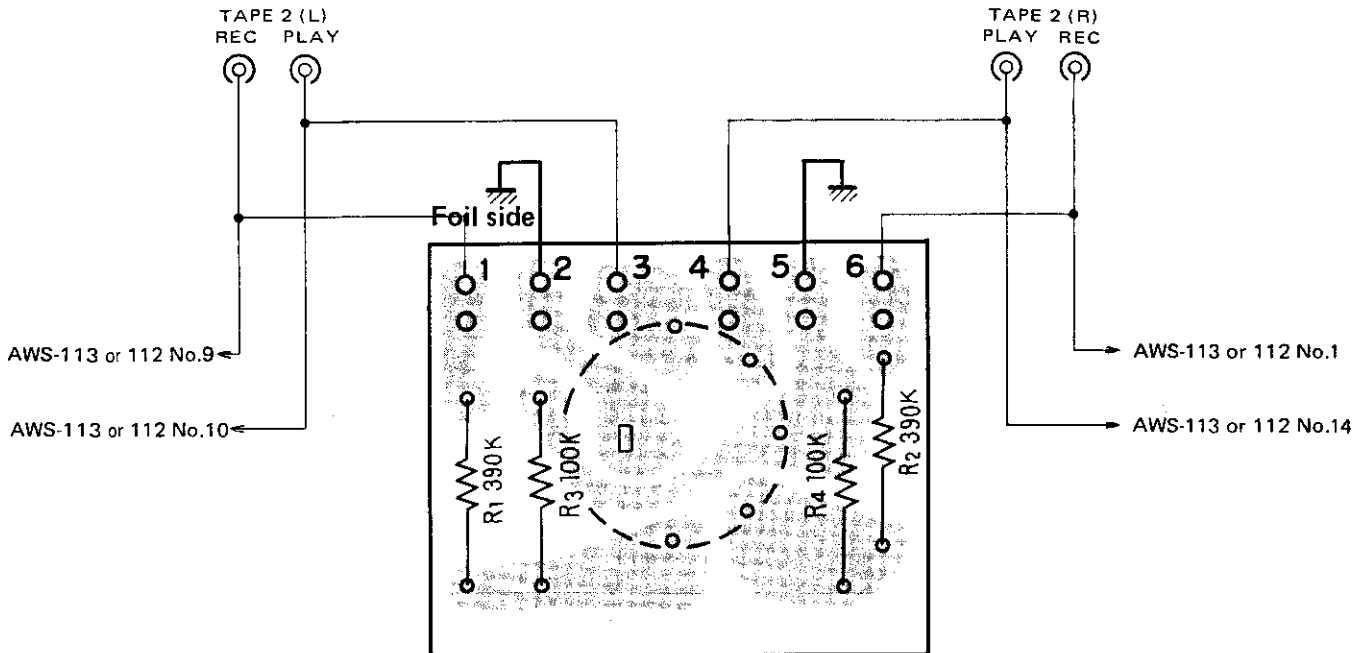
5P CONNECTOR ASSEMBLY(AWX-062)

NOTE:
This assembly (AWX-062) is applicable to the S and HG types.



Parts List

Symbol	Description	Part No.
R1	Carbon film resistor 390k	RD¼PS 394J
R2	Carbon film resistor 390k	RD¼PS 394J
R3	Carbon film resistor 100k	RD¼PS 104J
R4	Carbon film resistor 100k	RD¼PS 104J
	Connector socket (REC/PLAY)	AKP-007



SA-8500II/S

Miscellaneous Parts for S-type

NOTE:

- Capacitors: in μF unless otherwise noted p:pF
- Resistors: in Ω , $\frac{1}{4}W$ unless otherwise noted k:k Ω , M:M Ω

SEMICONDUCTORS

Symbol	Description	Part No.
Q1	Transistor	2SD587A/A/-R or Q
Q2	Transistor	2SD587A/A/-R or Q
Q3	Transistor	2SB617A/A/-R or Q
Q4	Transistor	2SB617A/A/-R or Q
Q5	Transistor	2SD587A/A/-R or Q
Q6	Transistor	2SD587A/A/-R or Q
Q7	Transistor	2SB617A/A/-R or Q
Q8	Transistor	2SB617A/A/-R or Q

CAPACITORS

Symbol	Description	Part No.
C2	Ceramic 0.047 50V	CKDYF 473Z 50
C3	Ceramic 0.047 50V	CKDYF 473Z 50
C4	Ceramic 0.047 50V	CKDYF 473Z 50
C5	Ceramic 0.047 50V	CKDYF 473Z 50
C6	Ceramic 0.047 50V	CKDYF 473Z 50
C7	Electrolytic 10,000 50V	ACH-064
C8	Electrolytic 10,000 50V	ACH-064
C9	Electrolytic 10,000 50V	ACH-064
C10	Electrolytic 10,000 50V	ACH-064
C11	Ceramic 0.01 250V	ACG-001
C12	Ceramic 0.01 250V	ACG-001

LAMP, FUSES

Symbol	Description	Part No.
PL1	Lamp with leads 8V, 50mA	AEL-081
FU1	Fuse 2.5A (for 220V or 240V)	AEK-102
	Fuse 5A (for 110V or 120V)	AEK-108

SWITCHES

Symbol	Description	Part No.
S13	Lever switch (POWER)	ASK-128
S16	Plug in selector (4-position)	AKR-031

TRANSFORMERS

Symbol	Description	Part No.
T1	Power transformer (L)	ATT-372
T2	Power transformer (R)	ATT-373

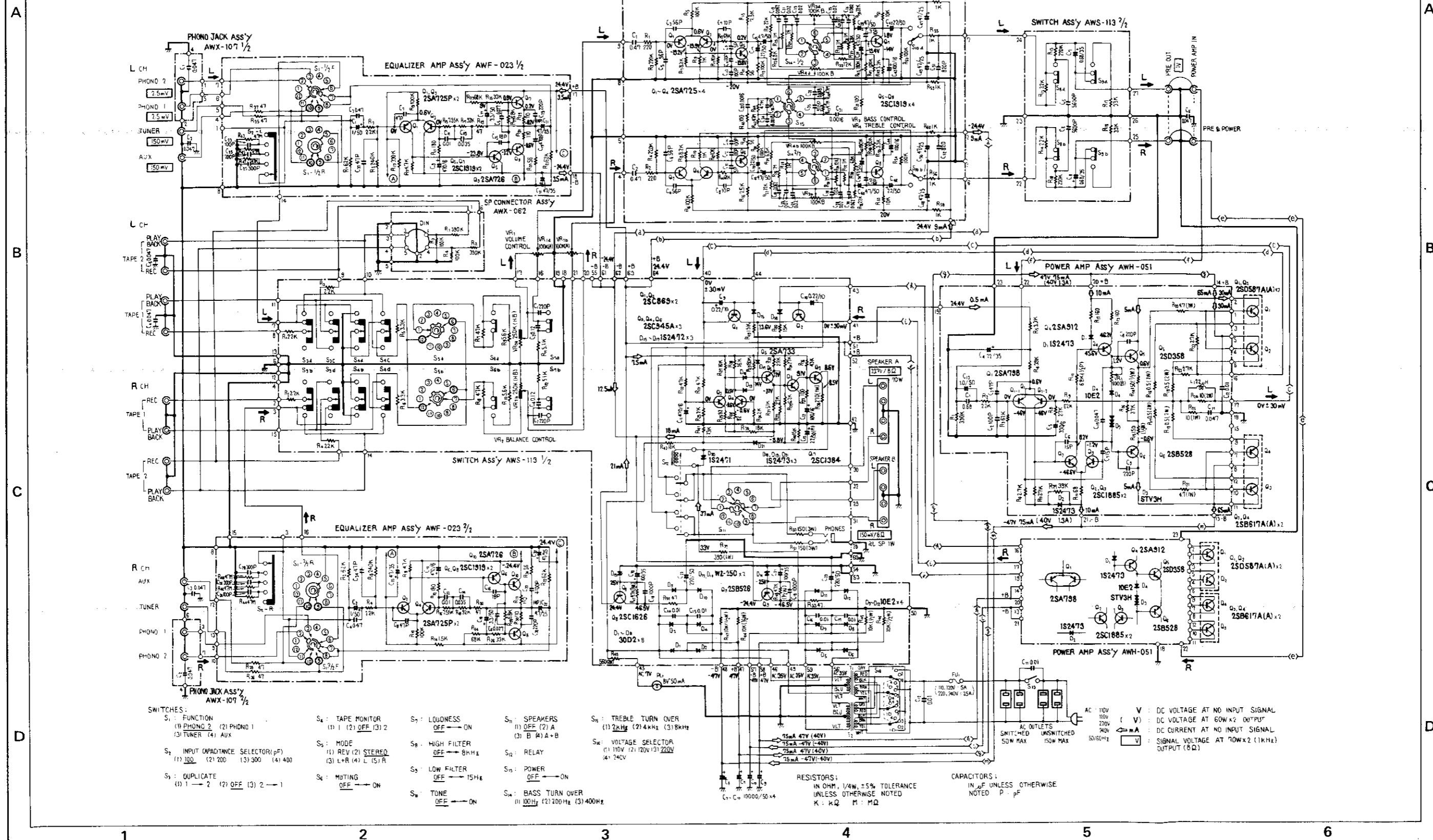
RESISTOR

Symbol	Description	Part No.
VR1	Variable resistor 100k 32-step (VOLUME)	ACV-171

Schematic Diagram for S-type

NOTE:

The indicated semiconductors are representative ones only. Other alternative semiconductors may be used and are listed in the parts list.



- SWITCHES:
- S₁: FUNCTION
(1) PHONO 2 (2) PHONO 1
(3) TUNER (4) AUX
 - S₂: INPUT CAPACITANCE SELECTOR (pF)
(1) 100 (2) 200 (3) 300 (4) 400
 - S₃: DUPLICATE
(1) 1 → 2 (2) OFF (3) 2 → 1
 - S₄: TAPE MONITOR
(1) 1 (2) OFF (3) 2
 - S₅: MODE
(1) REV (2) STEREO
(3) L+R (4) L (5) R
 - S₆: MUTING
OFF → ON
 - S₇: LOUDNESS
OFF → ON
 - S₈: HIGH FILTER
OFF → 8kHz
 - S₉: LOW FILTER
OFF → 15kHz
 - S₁₀: TONE
OFF → ON
 - S₁₁: SPEAKERS
(1) OFF (2) A
(3) 'B' (4) A+B
 - S₁₂: RELAY
 - S₁₃: POWER
OFF → ON
 - S₁₄: BASS TURN OVER
(1) 100Hz (2) 200Hz (3) 400Hz
 - S₁₅: TREBLE TURN OVER
(1) 2kHz (2) 4kHz (3) 8kHz
 - S₁₆: VOLTAGE SELECTOR
(1) 110V (2) 120V (3) 220V
(4) 240V

RESISTORS:
IN OHM, 1/4W, ±5% TOLERANCE
UNLESS OTHERWISE NOTED
K: KΩ M: MΩ

CAPACITORS:
IN μF UNLESS OTHERWISE
NOTED P: pF

AC: 100V 100V 220V 240V
DC: V (V) mA (mA)
SWITCHED: 50W MAX 150W MAX
UNSWITCHED: 100V 250V 50/60Hz

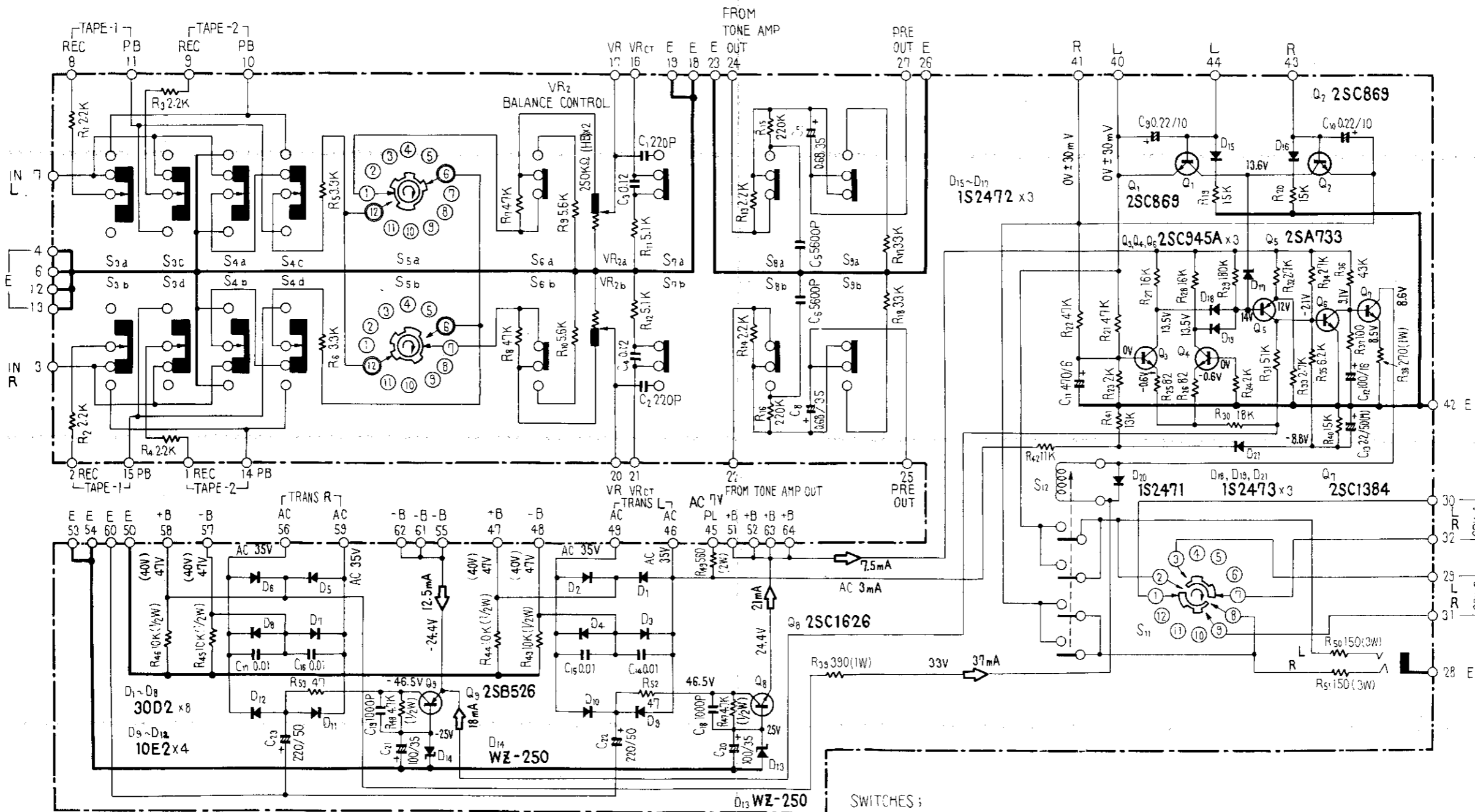
AL OUTLETS:
SWITCHED: 50W MAX 150W MAX
UNSWITCHED: 100V 250V 50/60Hz

V: DC VOLTAGE AT NO INPUT SIGNAL
V: DC VOLTAGE AT 60W x 2 OUTPUT
mA: DC CURRENT AT NO INPUT SIGNAL
V: SIGNAL VOLTAGE AT 70W x 2 (1kHz) OUTPUT (8Ω)

SA-8500II/S

Switch Assembly (AWS-113)

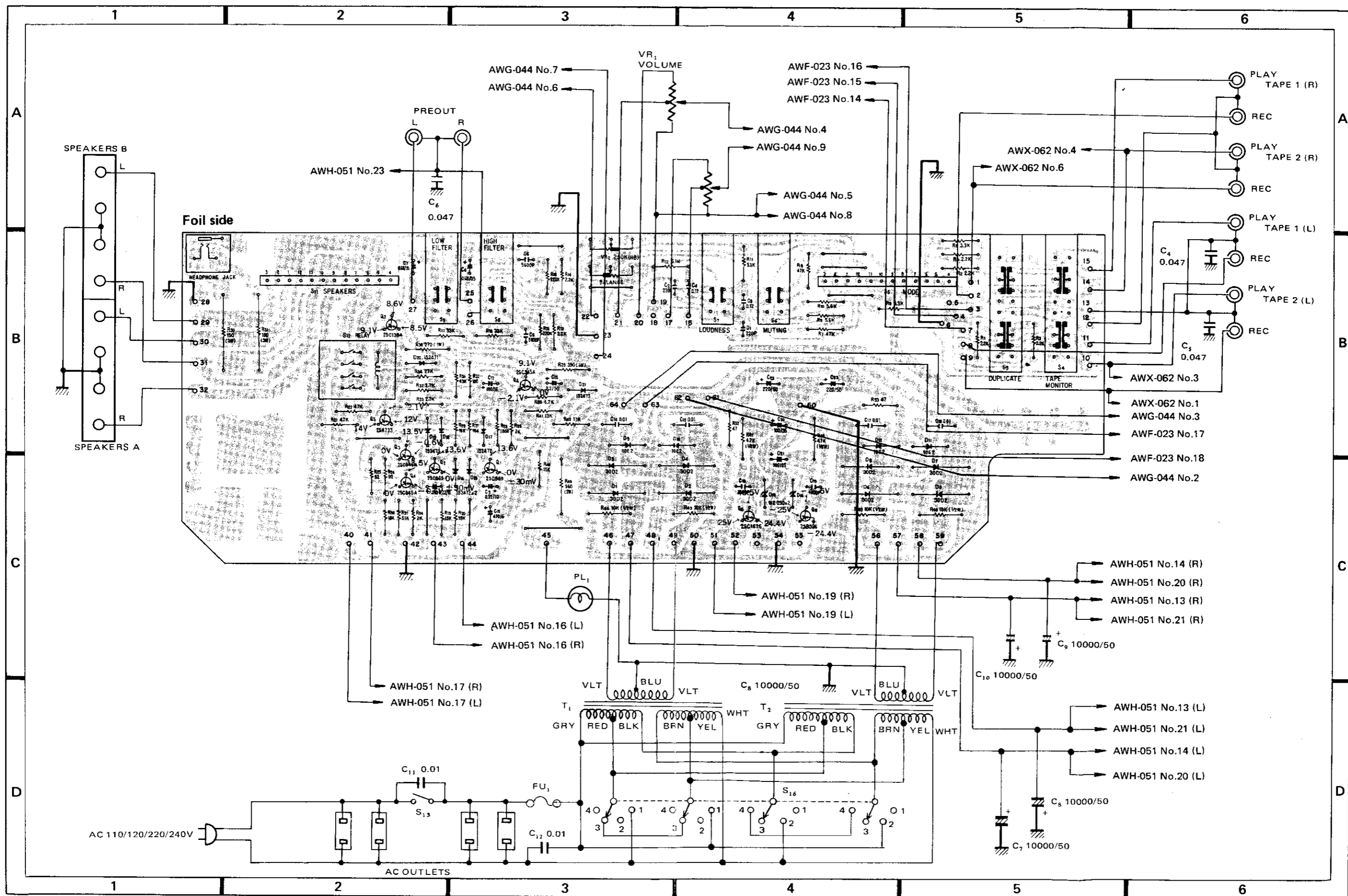
NOTE:
This assembly is applicable to the S-type.



SWITCHES SHOW ARE AT 1st OR OFF POSITION

SWITCHES :

- | | |
|--|--|
| S ₃ : DUPLICATE
(1) 1 → 2 (2) OFF (3) 2 → 1 | S ₆ : MUTING -20dB |
| S ₄ : TAPE MONITOR
(1) 1 (2) OFF (3) 2 | S ₇ : LOUDNESS |
| S ₅ : MODE
(1) REV (2) STEREO
(3) L+R (4) L (5) R | S ₈ : HIGH FILTER 8KHz |
| | S ₉ : LOW FILTER 15Hz |
| | S ₁₁ : SPEAKERS
(1) OFF (2) A (3) B
(4) A+B |



SA-8500II/S

Parts List of Switch Assembly (AWS-113, for S-type)

SEMICONDUCTORS

Symbol	Description	Part No.
Q1	Transistor	2SC869-D or C
Q2	Transistor	2SC869-D or C
Q3	Transistor	2SC945A-Q or R
Q4	Transistor	2SC945A-Q or R
Q5	Transistor	2SA733-Q or R (2SA823-Q or R)
Q6	Transistor	2SC945A-Q or R
Q7	Transistor	2SC1384-Q or R
Q8	Transistor	2SC1626-Q or Y (2SD381-M or L)
Q9	Transistor	2SB526-C or D (2SA816-O or Y)
D1	Diode	30D2 (GP-25D) (ERC01-02)
D2	Diode	30D2 (GP-25D) (ERC01-02)
D3	Diode	30D2 (GP-25D) (ERC01-02)
D4	Diode	30D2 (GP-25D) (ERC01-02)
D5	Diode	30D2 (GP-25D) (ERC01-02)
D6	Diode	30D2 (GP-25D) (ERC01-02)
D7	Diode	30D2 (GP-25D) (ERC01-02)
D8	Diode	30D2 (GP-25D) (ERC01-02)
D9	Diode	10E2 (SIB01-02) (1S1886)
D10	Diode	10E2 (SIB01-02) (1S1886)
D11	Diode	10E2 (SIB01-02) (1S1886)

Symbol	Description	Part No.
D12	Diode	10E2 (SIB01-02) (1S1886)
D13	Zener diode	WZ-250
D14	Zener diode	WZ-250
D15	Diode	1S2472 (1S1554)
D16	Diode	1S2472 (1S1554)
D17	Diode	1S2472 (1S1554)
D18	Diode	1S2473 (1S1555)
D19	Diode	1S2473 (1S1555)
D20	Diode	1S2471
D21	Diode	1S2473 (1S1555)

SWITCHES

Symbol	Description	Part No.
S3	Lever switch (DUPLICATE)	ASK-113
S4	Lever switch (MONITOR)	ASK-113
S5	Rotary switch (MODE)	ASD-053
S6	Lever switch (MUTING)	ASK-110
S7	Lever switch (LOUDNESS)	ASK-110
S8	Lever switch (HIGH FILTER)	ASK-110
S9	Lever switch (LOW FILTER)	ASK-110
S11	Rotary switch (SPEAKERS)	ASD-054
S12	Relay	ASR-023

RESISTORS

Symbol	Description	Part No.
R1	Carbon film 2.2k	RD½PS 222J
R2	Carbon film 2.2k	RD½PS 222J
R3	Carbon film 2.2k	RD½PS 222J
R4	Carbon film 2.2k	RD½PS 222J
R5	Carbon film 3.3k	RD½PS 332J
R6	Carbon film 3.3k	RD½PS 332J
R7	Carbon film 47k	RD½PS 473J
R8	Carbon film 47k	RD½PS 473J
R9	Carbon film 5.6k	RD½PS 562J
R10	Carbon film 5.6k	RD½PS 562J
R11	Carbon film 5.1k	RD½PS 512J
R12	Carbon film 5.1k	RD½PS 512J
R13	Carbon film 2.2k	RD½PS 222J

Symbol	Description	Part No.
R14	Carbon film 2.2k	RD½PS 222J
R15	Carbon film 220k	RD½PS 224J
R16	Carbon film 220k	RD½PS 224J
R17	Carbon film 33k	RD½PS 333J
R18	Carbon film 33k	RD½PS 333J
R19	Carbon film 15k	RD½PS 153J
R20	Carbon film 15k	RD½PS 153J
R21	Carbon film 47k	RD½PS 473J
R22	Carbon film 47k	RD½PS 473J
R23	Carbon film 2k	RD½PS 202J
R24	Carbon film 2k	RD½PS 202J
R25	Carbon film 82	RD½PS 820J
R26	Carbon film 82	RD½PS 820J
R27	Carbon film 16k	RD½PS 163J
R28	Carbon film 16k	RD½PS 163J
R29	Carbon film 180k	RD½PS 184J
R30	Carbon film 18k	RD½PS 183J
R31	Carbon film 51k	RD½PS 513J
R32	Carbon film 2.7k	RD½PS 272J
R33	Carbon film 2.7k	RD½PS 272J
R34	Carbon film 27k	RD½PS 273J
R35	Carbon film 6.2k	RD½PS 622J
R36	Carbon film 43k	RD½PS 433J
R37	Carbon film 100	RD½PS 101J
R38	Metal oxide 270 1W	RS1P 271J
R39	Metal oxide 390 1W	RS1P 391J
R40	Carbon film 15k	RD½PS 153J
R41	Carbon film 13k	RD½PS 133J
R42	Carbon film 11k	RD½PS 113J
R43	Carbon film 10k ½W	RD½PS 103J
R44	Carbon film 10k ½W	RD½PS 103J
R45	Carbon film 10k ½W	RD½PS 103J
R46	Carbon film 10k ½W	RD½PS 103J
R47	Carbon film 4.7k ½W	RD½PS 472J
R48	Carbon film 4.7k ½W	RD½PS 472J
R49	Metal oxide 560 2W	RS2P 561J
R50	Metal oxide 150 3W	RS3P 151J
R51	Metal oxide 150 3W	RS3P 151J
R52	Carbon film 47	RD½PSF 470J
R53	Carbon film 47	RD½PSF 470J
VR2	Variable resistor 250k-HB (BALANCE)	ACV-172

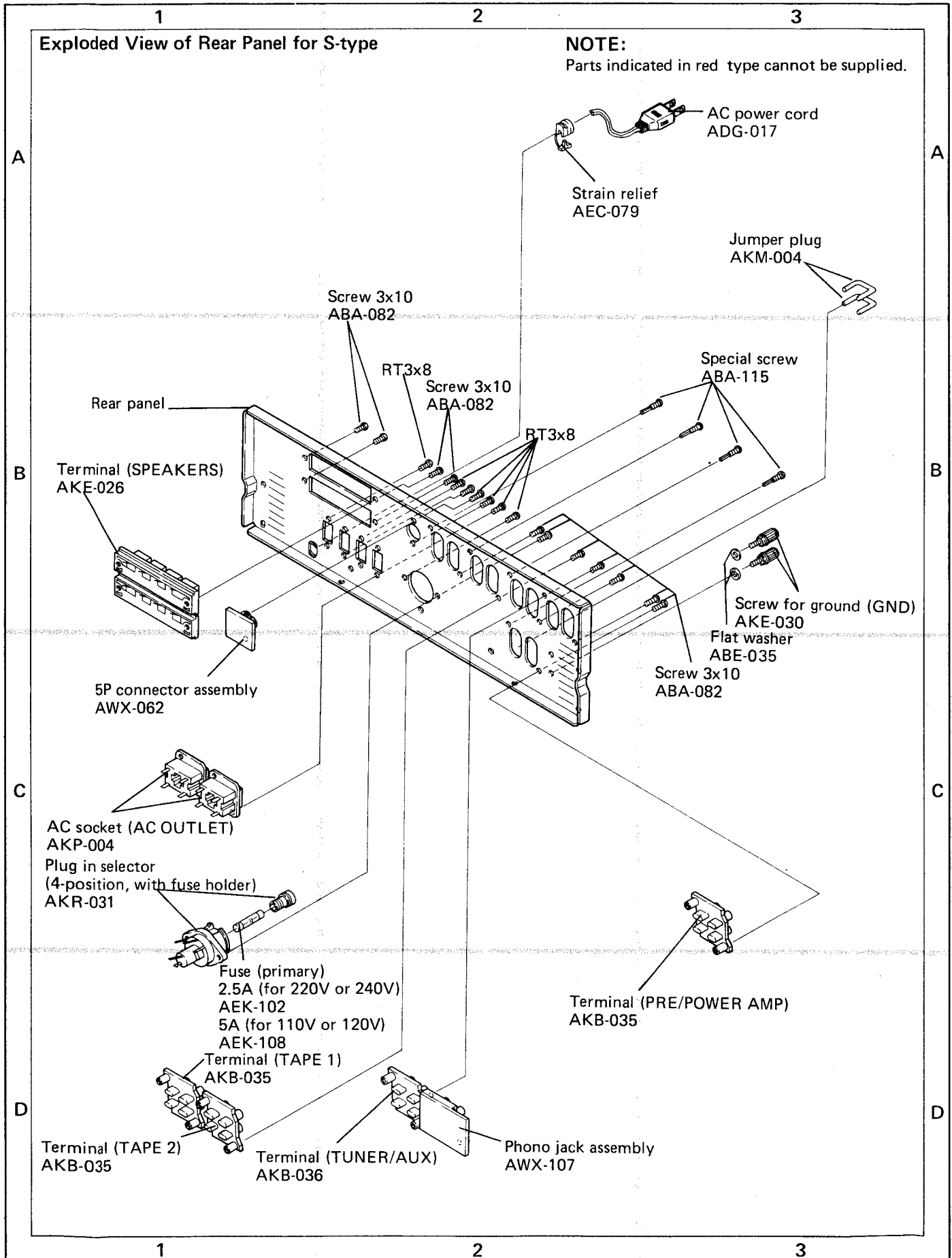
CAPACITORS

Symbol	Description	Part No.
C1	Ceramic 220p 50V	CCDSL 221K 50
C2	Ceramic 220p 50V	CCDSL 221K 50
C3	Mylar 0.12 50V	CQMA 124K 50
C4	Mylar 0.12 50V	CQMA 124K 50
C5	Mylar 0.0056 50V	CQMA 562J 50

Symbol	Description	Part No.
C6	Mylar 0.0056 50V	CQMA 562J 50
C7	Electrolytic 0.68 35V	CSZA R68M 35
C8	Electrolytic 0.68 35V	CSZA R68M 35
C9	Electrolytic 0.22 10V	CSSA R22M 10
C10	Electrolytic 0.22 10V	CSSA R22M 10
C11	Electrolytic 470 6V	CEA 471P 6
C12	Electrolytic 100 16V	CEA 101P 16
C13	Electrolytic 2.2 50V	ACH-317
C14	Ceramic 0.01 150V	ACG-004
C15	Ceramic 0.01 150V	ACG-004
C16	Ceramic 0.01 150V	ACG-004
C17	Ceramic 0.01 150V	ACG-004
C18	Ceramic 0.001 50V	CKDYF 102Z 50
C19	Ceramic 0.001 50V	CKDYF 102Z 50
C20	Electrolytic 100 35V	CEA 101P 35
C21	Electrolytic 100 35V	CEA 101P 35
C22	Electrolytic 220 50V	CEA 221P 50
C23	Electrolytic 220 50V	CEA 221P 50

OTHERS

Symbol	Description	Part No.
	Phone jack (PHONES)	AKN-008
	Washer faced nut M9	ABN-024
	Special nut	ABN-027



SA-8500II/HG

Miscellaneous Parts for HG-type

NOTE:

- Capacitors: in μF unless otherwise noted p:pF
- Resistors: in Ω , $\frac{1}{4}W$ unless otherwise noted k:k Ω , M:M Ω

SEMICONDUCTORS

Symbol	Description	Part No.
Q1	Transistor	2SD587A/A/-R or Q
Q2	Transistor	2SD587A/A/-R or Q
Q3	Transistor	2SB617A/A/-R or Q
Q4	Transistor	2SB617A/A/-R or Q
Q5	Transistor	2SD587A/A/-R or Q
Q6	Transistor	2SD587A/A/-R or Q
Q7	Transistor	2SB617A/A/-R or Q
Q8	Transistor	2SB617A/A/-R or Q

CAPACITORS

Symbol	Description	Part No.
C2	Ceramic 0.047 50V	CKDYF 473Z 50
C3	Ceramic 0.047 50V	CKDYF 473Z 50
C4	Ceramic 0.047 50V	CKDYF 473Z 50
C5	Ceramic 0.047 50V	CKDYF 473Z 50
C6	Ceramic 0.047 50V	CKDYF 473Z 50
C7	Electrolytic 10,000 50V	ACH-064
C8	Electrolytic 10,000 50V	ACH-064
C9	Electrolytic 10,000 50V	ACH-064
C10	Electrolytic 10,000 50V	ACH-064

LAMP, FUSES

Symbol	Description	Part No.
PL1	Lamp with leads 8V, 50mA	AEL-081
FU1	Fuse 1.6A	AEK-405
FU2	Fuse 1.6A	AEK-405

SWITCHES

Symbol	Description	Part No.
S13	Lever switch (POWER)	ASK-127
S16	Plug in selector (2-position)	AKX-037

TRANSFORMERS

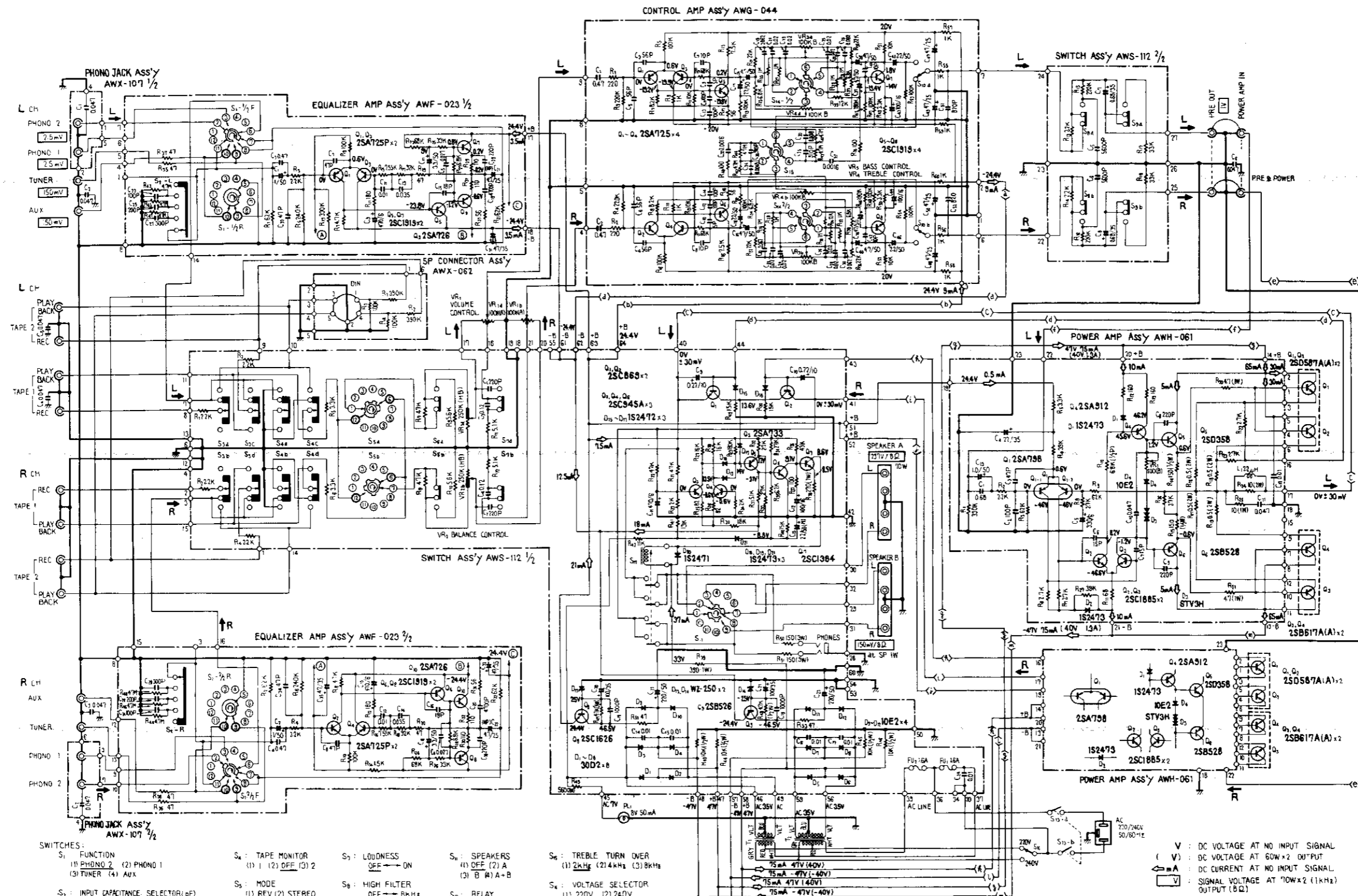
Symbol	Description	Part No.
T1	Power transformer (L)	ATT-370
T2	Power transformer (R)	ATT-371

RESISTOR

Symbol	Description	Part No.
VR1	Variable resistor 100k 32-step (VOLUME)	ACV-171

Schematic Diagram for HG-type

NOTE:
The indicated semiconductors are representative ones only. Other alternative semiconductors may be used and are listed in the parts list.



- SWITCHES:
- S₁: FUNCTION
(1) PHONO 2 (2) PHONO 1
(3) TUNER (4) AUX
 - S₂: INPUT CAPACITANCE SELECTOR (pF)
(1) 100 (2) 200 (3) 300 (4) 400
 - S₃: DUPLICATE
(1) 1 → 2 (2) OFF (3) 2 → 1
 - S₄: TAPE MONITOR
(1) 1 (2) OFF (3) 2
 - S₅: MODE
(1) REV (2) STEREO
(3) L+R (4) L (5) R
 - S₆: MUTING
OFF → ON
 - S₇: LOUDNESS
OFF → ON
 - S₈: HIGH FILTER
OFF → 8kHz
 - S₉: LOW FILTER
OFF → 15Hz
 - S₁₀: TONE
DEF → ON
 - S₁₁: SPEAKERS
(1) DEF (2) A
(3) B (4) A+B
 - S₁₂: RELAY
 - S₁₃: POWER
OFF → ON
 - S₁₄: BASS TURN OVER
(1) 80Hz (2) 200Hz (3) 400Hz
 - S₁₅: TREBLE TURN OVER
(1) 2kHz (2) 4kHz (3) 8kHz
 - S₁₆: VOLTAGE SELECTOR
(1) 220V (2) 240V

RESISTORS:
IN OHM, 1/4W, ±5% TOLERANCE
UNLESS OTHERWISE NOTED
K: KΩ M: MΩ

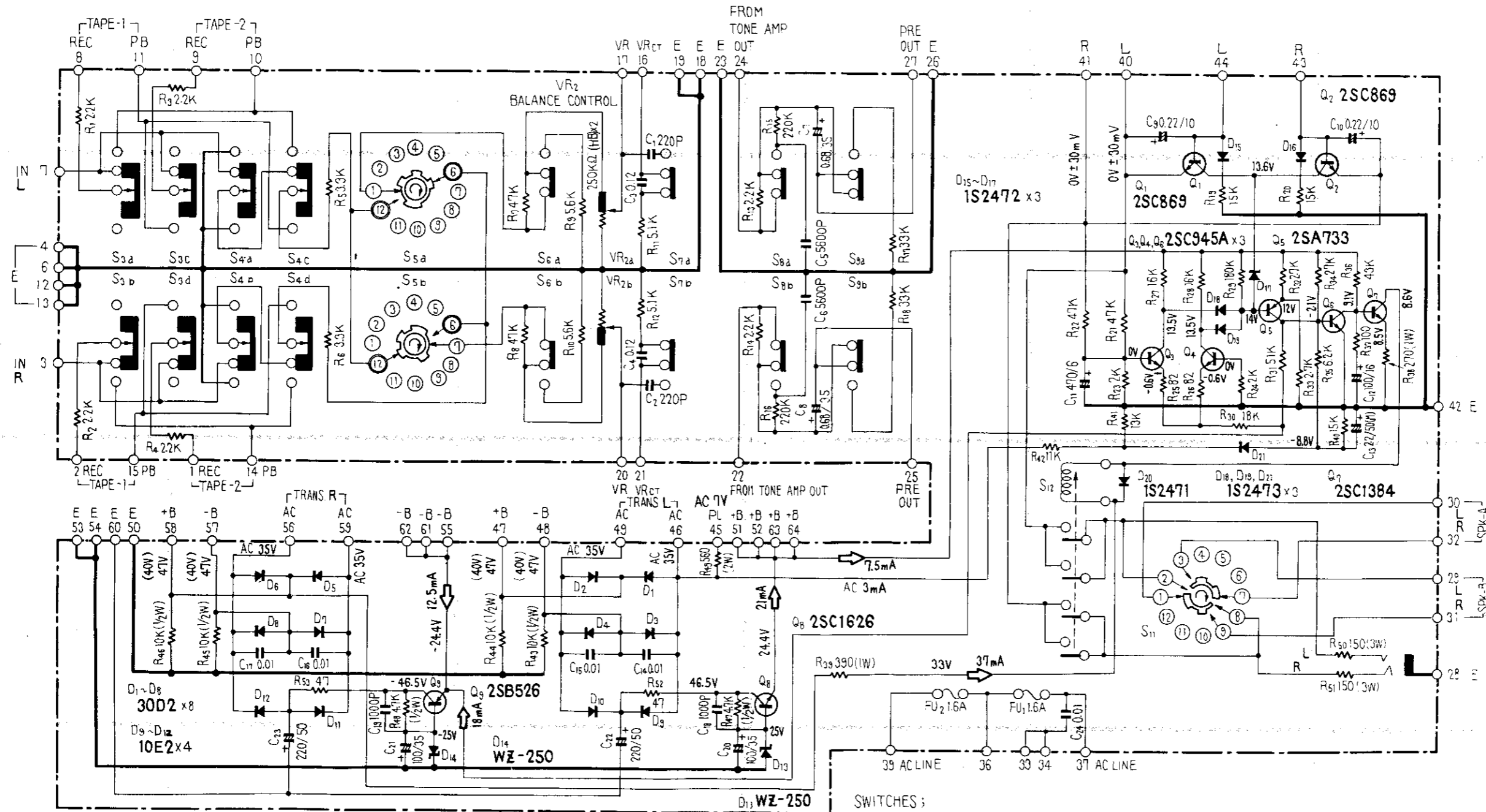
CAPACITORS:
IN μF UNLESS OTHERWISE
NOTED P: pF

V: DC VOLTAGE AT NO INPUT SIGNAL
(V): DC VOLTAGE AT 60W x 2 (0"PUT)
I: DC CURRENT AT NO INPUT SIGNAL
V: SIGNAL VOLTAGE AT 70W x 2 (1kHz)
OUTPUT (8Ω)

SA-8500II/HG

Switch Assembly (AWS-112)

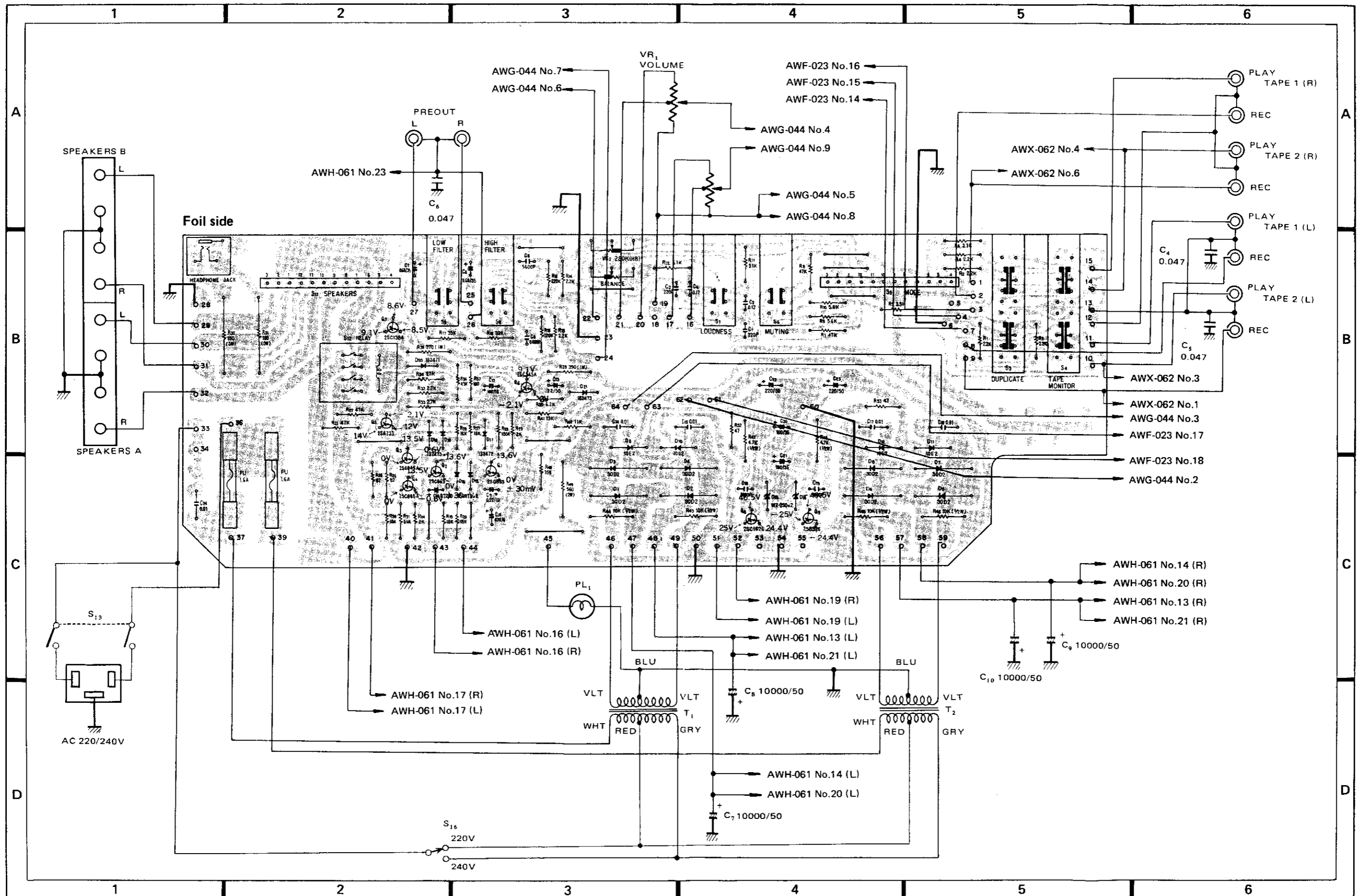
NOTE:
This assembly is applicable to the HG-type.



SWITCHES SHOW ARE AT 1st OR OFF POSITION

SWITCHES;

- | | |
|--|--|
| S ₃ : DUPLICATE
(1) 1 → 2 (2) OFF (3) 2 → 1 | S ₆ : MUTING -20dB |
| S ₄ : TAPE MONITOR
(1) 1 (2) OFF (3) 2 | S ₇ : LOUDNESS |
| S ₅ : MODE
(1) REV (2) STEREO
(3) L+R (4) L (5) R | S ₈ : HIGH FILTER 8KHz |
| | S ₉ : LOW FILTER 15Hz |
| | S ₁₁ : SPEAKERS
(1) OFF (2) A (3) B
(4) A + B |



SA-8500II/HG

Parts List of Switch Assembly (AWS-112, for HG-type)

SEMICONDUCTORS

Symbol	Description	Part No.
Q1	Transistor	2SC869-D or C
Q2	Transistor	2SC869-D or C
Q3	Transistor	2SC945A-Q or R
Q4	Transistor	2SC945A-Q or R
Q5	Transistor	2SA733-Q or R (2SA823-Q or R)
Q6	Transistor	2SC945A-Q or R
Q7	Transistor	2SC1384-Q or R
Q8	Transistor	2SC1626-Q or Y (2SD381-M or L)
Q9	Transistor	2SB526-C or D (2SA816-O or Y)
D1	Diode	30D2 (GP-25D) (ERC01-02)
D2	Diode	30D2 (GP-25D) (ERC01-02)
D3	Diode	30D2 (GP-25D) (ERC01-02)
D4	Diode	30D2 (GP-25D) (ERC01-02)
D5	Diode	30D2 (GP-25D) (ERC01-02)
D6	Diode	30D2 (GP-25D) (ERC01-02)
D7	Diode	30D2 (GP-25D) (ERC01-02)
D8	Diode	30D2 (GP-25D) (ERC01-02)
D9	Diode	10E2 (S1B01-02) (1S1886)
D10	Diode	10E2 (S1B01-02) (1S1886)
D11	Diode	10E2 (S1B01-02) (1S1886)

Symbol	Description	Part No.
D12	Diode	10E2 (S1B01-02) (1S1886)
D13	Zener diode	WZ-250
D14	Zener diode	WZ-250
D15	Diode	1S2472 (1S1554)
D16	Diode	1S2472 (1S1554)
D17	Diode	1S2472 (1S1554)
D18	Diode	1S2473 (1S1555)
D19	Diode	1S2473 (1S1555)
D20	Diode	1S2471
D21	Diode	1S2473 (1S1555)

SWITCHES

Symbol	Description	Part No.
S3	Lever switch (DUPLICATE)	ASK-113
S4	Lever switch (MONITOR)	ASK-113
S5	Rotary switch (MODE)	ASD-053
S6	Lever switch (MUTING)	ASK-110
S7	Lever switch (LOUDNESS)	ASK-110
S8	Lever switch (HIGH FILTER)	ASK-110
S9	Lever switch (LOW FILTER)	ASK-110
S11	Rotary switch (SPEAKERS)	ASD-054
S12	Relay	ASR-023

RESISTORS

Symbol	Description	Part No.
R1	Carbon film 2.2k	RD½PS 222J
R2	Carbon film 2.2k	RD½PS 222J
R3	Carbon film 2.2k	RD½PS 222J
R4	Carbon film 2.2k	RD½PS 222J
R5	Carbon film 3.3k	RD½PS 332J
R6	Carbon film 3.3k	RD½PS 332J
R7	Carbon film 47k	RD½PS 473J
R8	Carbon film 47k	RD½PS 473J
R9	Carbon film 5.6k	RD½PS 562J
R10	Carbon film 5.6k	RD½PS 562J
R11	Carbon film 5.1k	RD½PS 512J
R12	Carbon film 5.1k	RD½PS 512J
R13	Carbon film 2.2k	RD½PS 222J

Symbol	Description	Part No.
R14	Carbon film 2.2k	RD½PS 222J
R15	Carbon film 220k	RD½PS 224J
R16	Carbon film 220k	RD½PS 224J
R17	Carbon film 33k	RD½PS 333J
R18	Carbon film 33k	RD½PS 333J
R19	Carbon film 15k	RD½PS 153J
R20	Carbon film 15k	RD½PS 153J
R21	Carbon film 47k	RD½PS 473J
R22	Carbon film 47k	RD½PS 473J
R23	Carbon film 2k	RD½PS 202J
R24	Carbon film 2k	RD½PS 202J
R25	Carbon film 82	RD½PS 820J
R26	Carbon film 82	RD½PS 820J
R27	Carbon film 16k	RD½PS 163J
R28	Carbon film 16k	RD½PS 163J
R29	Carbon film 180k	RD½PS 184J
R30	Carbon film 18k	RD½PS 183J
R31	Carbon film 51k	RD½PS 513J
R32	Carbon film 2.7k	RD½PS 272J
R33	Carbon film 2.7k	RD½PS 272J
R34	Carbon film 27k	RD½PS 273J
R35	Carbon film 6.2k	RD½PS 622J
R36	Carbon film 43k	RD½PS 433J
R37	Carbon film 100	RD½PS 101J
R38	Metal oxide 270 1W	RS1P 271J
R39	Metal oxide 390 1W	RS1P 391J
R40	Carbon film 15k	RD½PS 153J
R41	Carbon film 13k	RD½PS 133J
R42	Carbon film 11k	RD½PS 113J
R43	Carbon film 10k ½W	RD½PS 103J
R44	Carbon film 10k ½W	RD½PS 103J
R45	Carbon film 10k ½W	RD½PS 103J
R46	Carbon film 10k ½W	RD½PS 103J
R47	Carbon film 4.7k ½W	RD½PS 472J
R48	Carbon film 4.7k ½W	RD½PS 472J
R49	Metal oxide 560 2W	RS2P 561J
R50	Metal oxide 150 3W	RS3P 151J
R51	Metal oxide 150 3W	RS3P 151J
R52	Carbon film 47	RD½PSF 470J
R53	Carbon film 47	RD½PSF 470J
VR2	Variable resistor 250k-HB (BALANCE)	ACV-172

CAPACITORS

Symbol	Description	Part No.
C1	Ceramic 220p 50V	CCDSL 221K 50
C2	Ceramic 220p 50V	CCDSL 221K 50
C3	Mylar 0.12 50V	CQMA 124K 50
C4	Mylar 0.12 50V	CQMA 124K 50
C5	Mylar 0.0056 50V	CQMA 562J 50

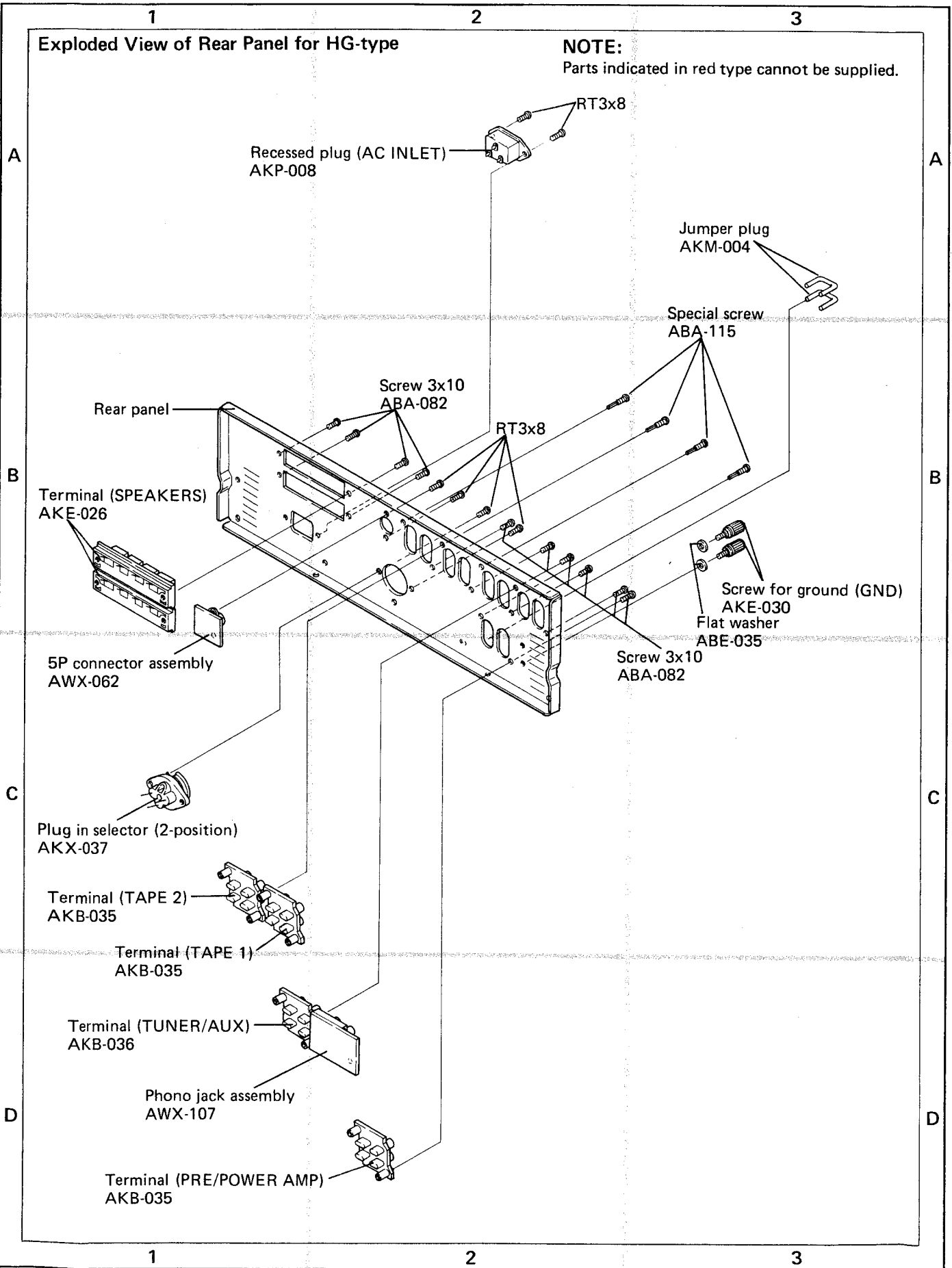
Symbol	Description	Part No.
C6	Mylar 0.0056 50V	CQMA 562J 50
C7	Electrolytic 0.68 35V	CSZA R68M 35
C8	Electrolytic 0.68 35V	CSZA R68M 35
C9	Electrolytic 0.22 10V	CSSA R22M 10
C10	Electrolytic 0.22 10V	CSSA R22M 10
C11	Electrolytic 470 6V	CEA 471P 6
C12	Electrolytic 100 16V	CEA 101P 16
C13	Electrolytic 2.2 50V	ACH-317
C14	Ceramic 0.01 150V	ACG-004
C15	Ceramic 0.01 150V	ACG-004
C16	Ceramic 0.01 150V	ACG-004
C17	Ceramic 0.01 150V	ACG-004
C18	Ceramic 0.001 50V	CKDYF 102Z 50
C19	Ceramic 0.001 50V	CKDYF 102Z 50
C20	Electrolytic 100 35V	CEA 101P 35
C21	Electrolytic 100 35V	CEA 101P 35
C22	Electrolytic 220 50V	CEA 221P 50
C23	Electrolytic 220 50V	CEA 221P 50
C24	Ceramic 0.01 250V	ACG-001

OTHERS

Symbol	Description	Part No.
	Phone jack (PHONES)	AKN-008
	Fuse clip	AKR-010
	Washer faced nut M9	ABN-024
	Special nut	ABN-027

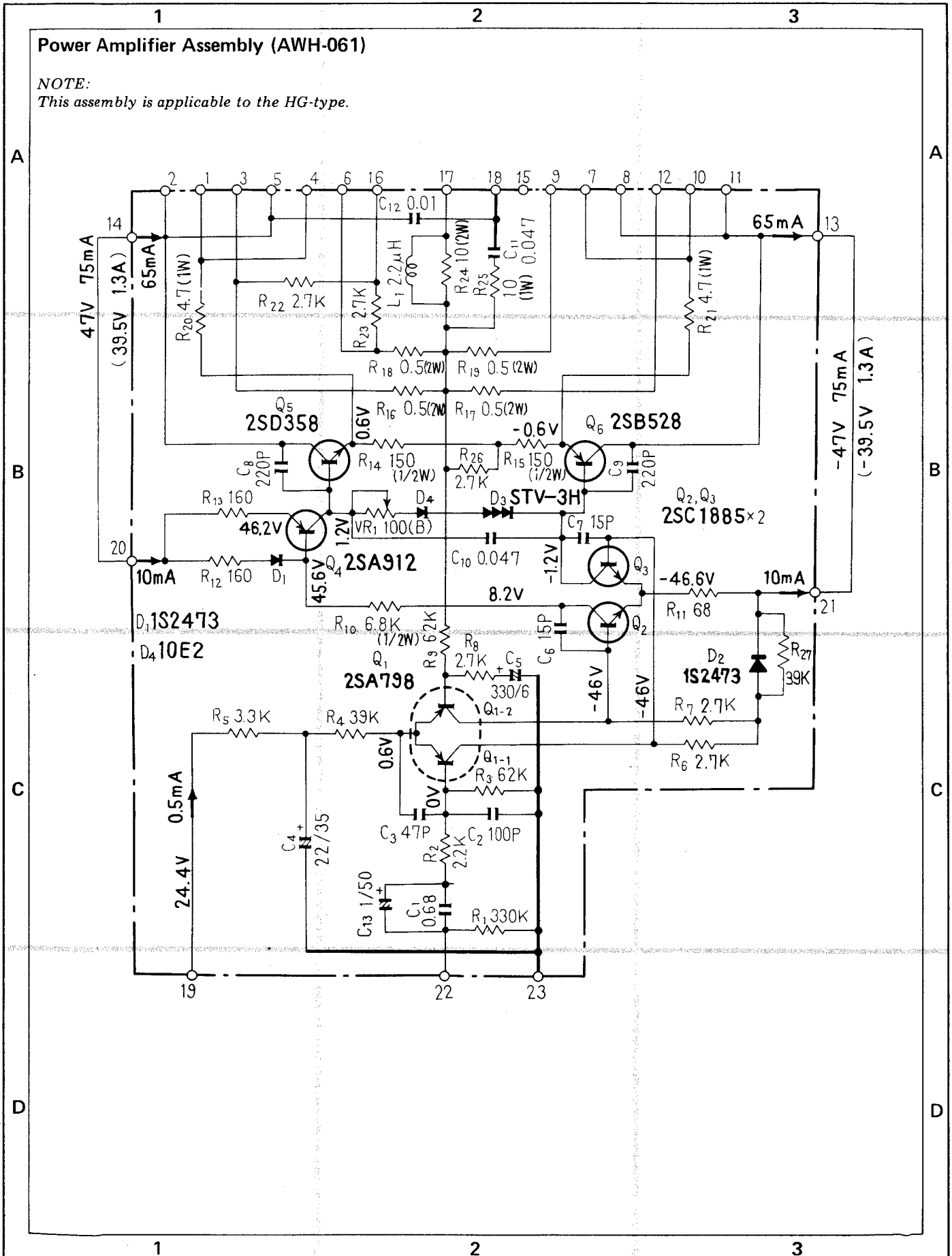
Exploded View of Rear Panel for HG-type

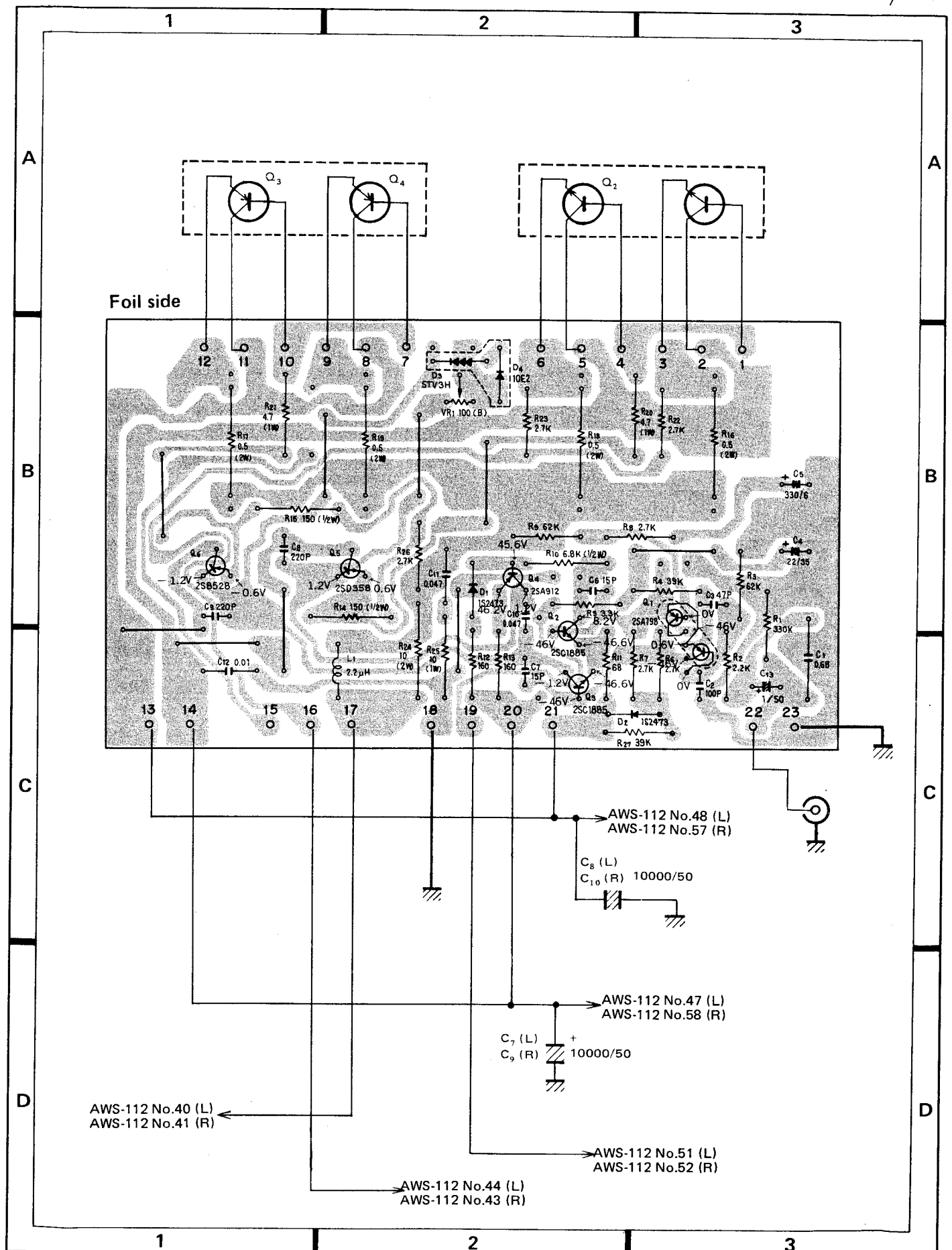
NOTE:
Parts indicated in red type cannot be supplied.



Power Amplifier Assembly (AWH-061)

NOTE:
This assembly is applicable to the HG-type.





Parts List of Power Amplifier Assembly (AWH-061, for HG-type)

SEMICONDUCTORS

Symbol	Description	Part No.
Q1	Transistor	2SA798-G or F
Q2	Transistor	2SC1885-S or R (2SC1903-V or B)
Q3	Transistor	2SC1885-S or R (2SC1903-V or B)
Q4	Transistor	2SA912-R or S (2SA898-B or V)
Q5	Transistor	2SD358-D or C
Q6	Transistor	2SB528-D or C
D1	Diode	1S2473 (1S1555)
D2	Diode	1S2473 (1S1555)
D3	Varistor	STV-3H
D4	Diode	10E2 (SIB01-01) (1S1885)

CAPACITORS

Symbol	Description	Part No.
C1	Metallized mylar 0.68 100V	ACE-010
C2	Ceramic 100p 50V	CCDSL 101K 50
C3	Ceramic 47p 50V	CCDSL 470K 50
C4	Electrolytic 22 35V	CEA 220P 35
C5	Electrolytic 330 6V	CEA 331P 6
C6	Ceramic 15p 500V	CCDSL 150K 500
C7	Ceramic 15p 500V	CCDSL 150K 500
C8	Ceramic 220p 500V	CCDSL 221K 500
C9	Ceramic 220p 500V	CCDSL 221K 500
C10	Ceramic 0.047 50V	CKDYF 473Z 50
C11	Ceramic 0.047 150V	ACG-009
C12	Ceramic 0.01 150V	ACG-004
C13	Electrolytic 1 50V	CEANL 010P 50

OTHER

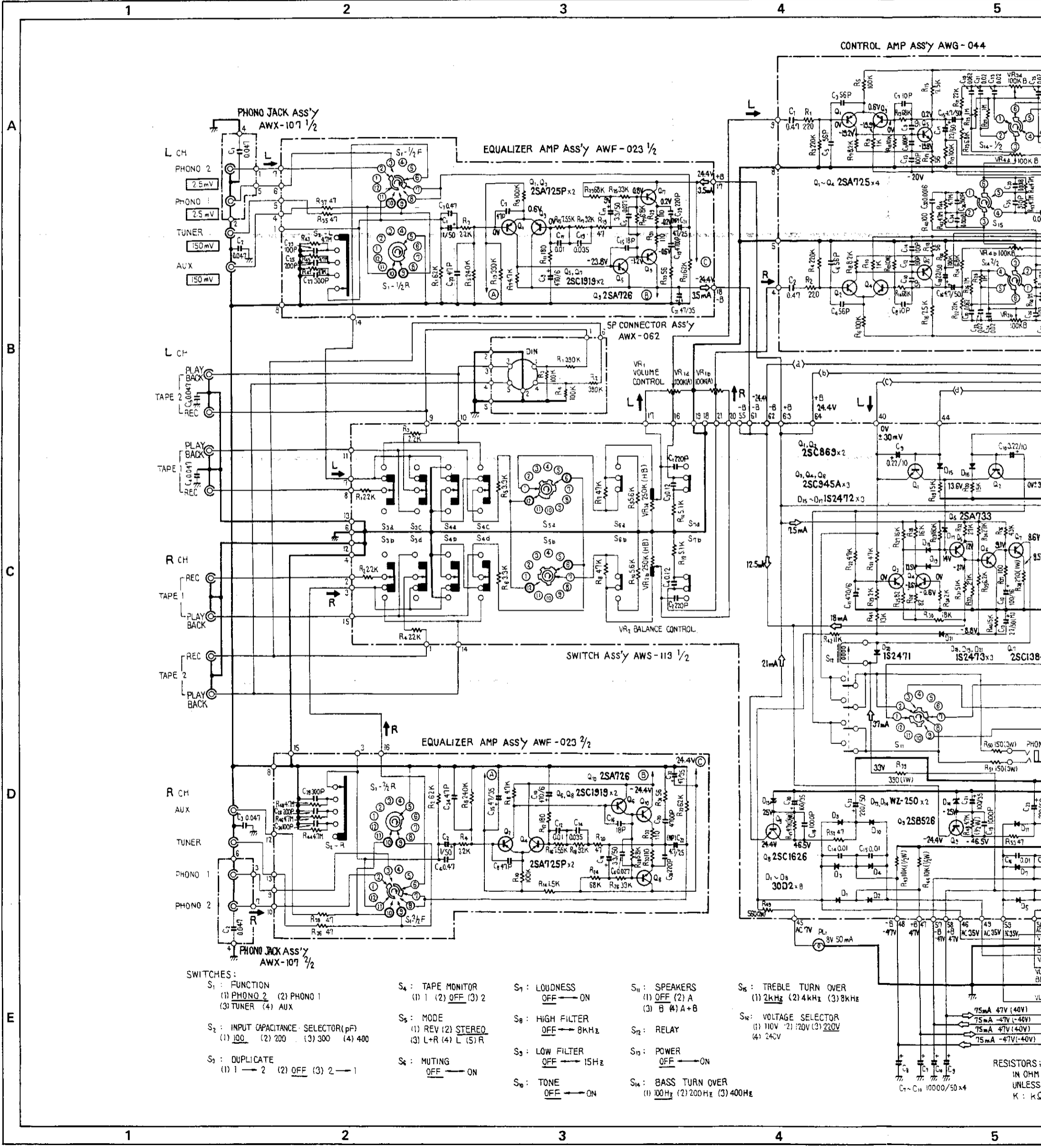
Symbol	Description	Part No.
L1	AF choke coil 2.2μH	T63-009

RESISTORS

Symbol	Description	Part No.
VR1	Semi-fixed 100-B	ACP-019
R1	Carbon film 330k	RD¼PS 334J
R2	Carbon film 2.2k	RD¼PS 222J
R3	Carbon film 62k	RD¼PS 623J
R4	Carbon film 39k	RD¼PS 393J
R5	Carbon film 3.3k	RD¼PS 332J
R6	Carbon film 2.7k	RD¼PS 272J
R7	Carbon film 2.7k	RD¼PS 272J
R8	Carbon film 2.7k	RD¼PS 272J
R9	Carbon film 62k	RD¼PS 623J
R10	Carbon film 6.8k ½W	RD¼PS 682J
R11	Carbon film 68	RD¼PSF 680J
R12	Carbon film 160	RD¼PS 161J
R13	Carbon film 160	RD¼PS 161J
R14	Carbon film 150 ½W	RD½PSF 151J
R15	Carbon film 150 ½W	RD½PSF 151J
R16	Metal film 0.5 2W	RN2H 0R5K
R17	Metal film 0.5 2W	RN2H 0R5K
R18	Metal film 0.5 2W	RN2H 0R5K
R19	Metal film 0.5 2W	RN2H 0R5K
R20	Metal film 4.7 1W	RN1H 4R7K
R21	Metal film 4.7 1W	RN1H 4R7K
R22	Carbon film 2.7k	RD¼PS 272J
R23	Carbon film 2.7k	RD¼PS 272J
R24	Metal oxide 10 2W	RS2P 100J
R25	Metal oxide 10 1W	RS1P 100J
R26	Carbon film 2.7k	RD¼PS 272J
R27	Carbon film 39k	RD¼PS 393J

STEREO AMPLIFIER

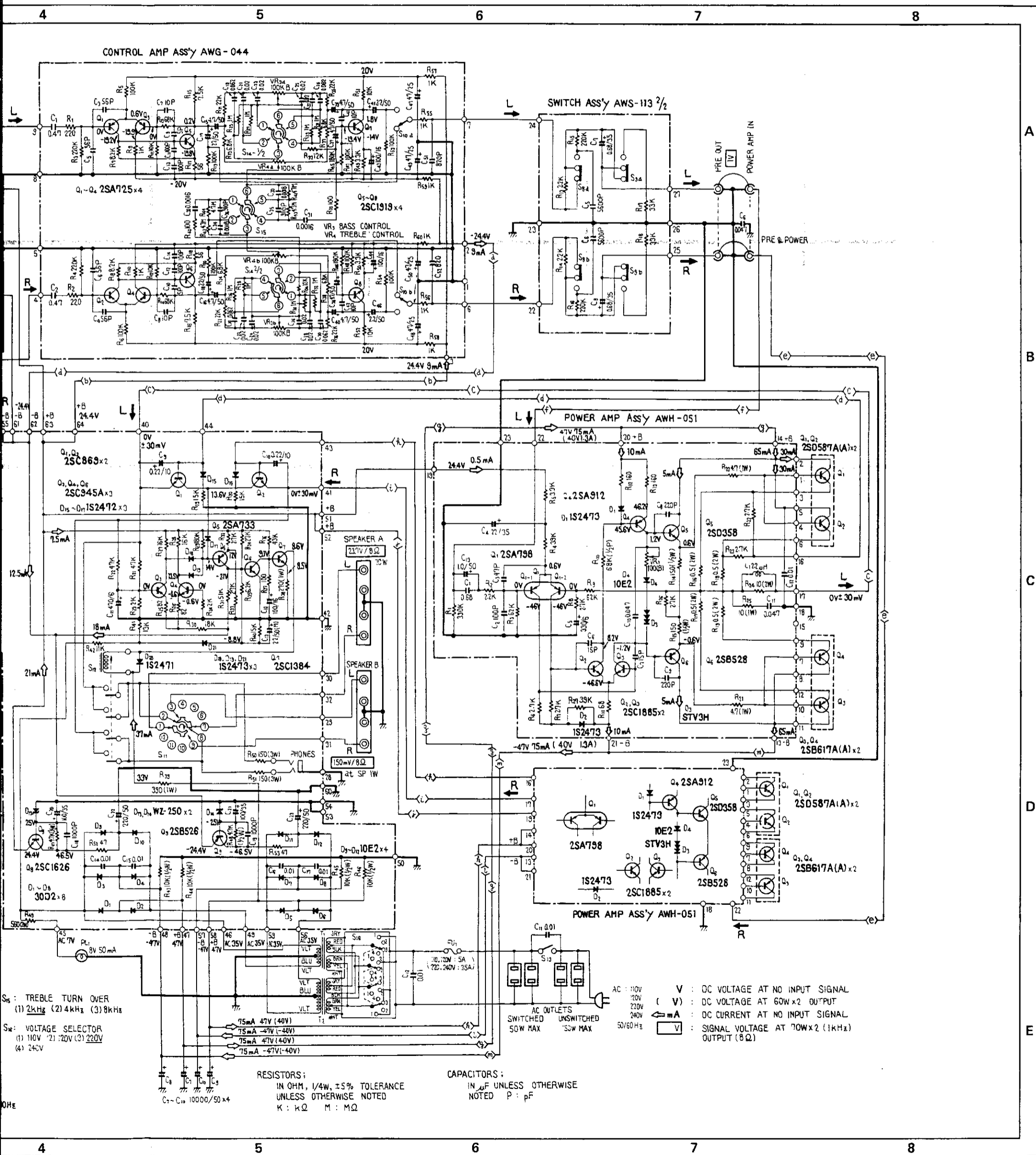
SA-8500II



- SWITCHES:**
- S₁: FUNCTION
(1) PHONO 2 (2) PHONO 1
(3) TUNER (4) AUX
 - S₂: INPUT CAPACITANCE SELECTOR (pF)
(1) 100 (2) 200 (3) 300 (4) 400
 - S₃: DUPLICATE
(1) 1 → 2 (2) OFF (3) 2 → 1
 - S₄: TAPE MONITOR
(1) 1 (2) OFF (3) 2
 - S₅: MODE
(1) REV (2) STEREO
(3) L+R (4) L (5) R
 - S₆: MUTING
OFF → ON
 - S₇: LOUDNESS
OFF → ON
 - S₈: HIGH FILTER
OFF → 8kHz
 - S₉: LOW FILTER
OFF → 15Hz
 - S₁₀: TONE
OFF → ON
 - S₁₁: SPEAKERS
(1) OFF (2) A
(3) B (4) A+B
 - S₁₂: RELAY
 - S₁₃: POWER
OFF → ON
 - S₁₄: BASS TURN OVER
(1) 100Hz (2) 200Hz (3) 400Hz

- S₅: TREBLE TURN OVER
(1) 2kHz (2) 4kHz (3) 8kHz
- S₁₆: VOLTAGE SELECTOR
(1) 110V (2) 120V (3) 220V
(4) 240V

RESISTORS:
IN OHM,
UNLESS
OTHERWISE
SPECIFIED
K: KΩ



S₁: TREBLE TURN OVER
 (1) 2kHz (2) 4kHz (3) 8kHz
S₂: VOLTAGE SELECTOR
 (1) 110V (2) 20V (3) 220V
 (4) 240V

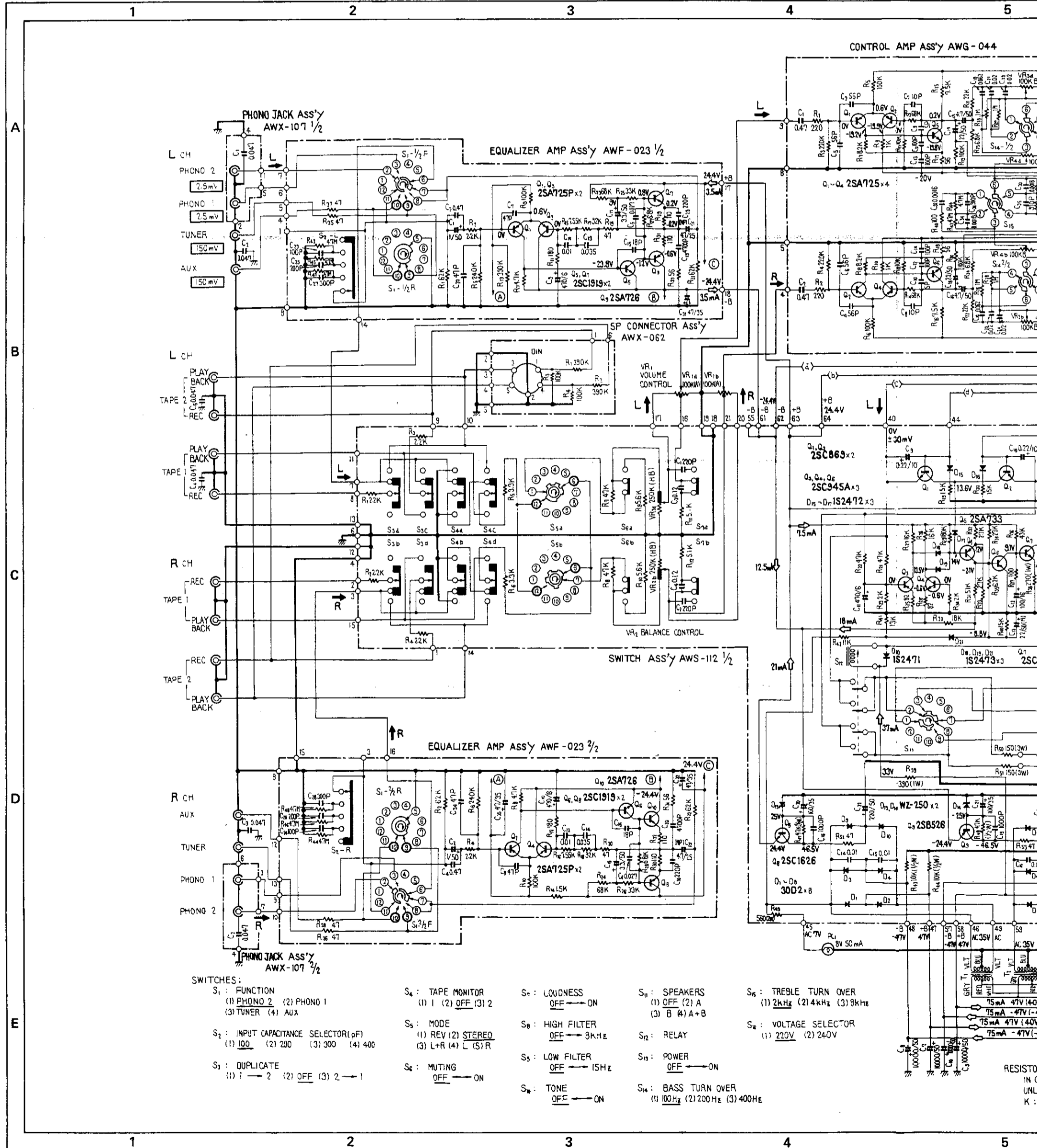
RESISTORS:
 IN OHM, 1/4W, ±5% TOLERANCE
 UNLESS OTHERWISE NOTED
 K: kΩ M: MΩ

CAPACITORS:
 IN μF UNLESS OTHERWISE
 NOTED P: pF

AC: 110V 20V 220V 240V 50/60 Hz
 V: DC VOLTAGE AT NO INPUT SIGNAL
 (V): DC VOLTAGE AT 60W x 2 OUTPUT
 mA: DC CURRENT AT NO INPUT SIGNAL
 V: SIGNAL VOLTAGE AT 70W x 2 (1kHz) OUTPUT (B Q)

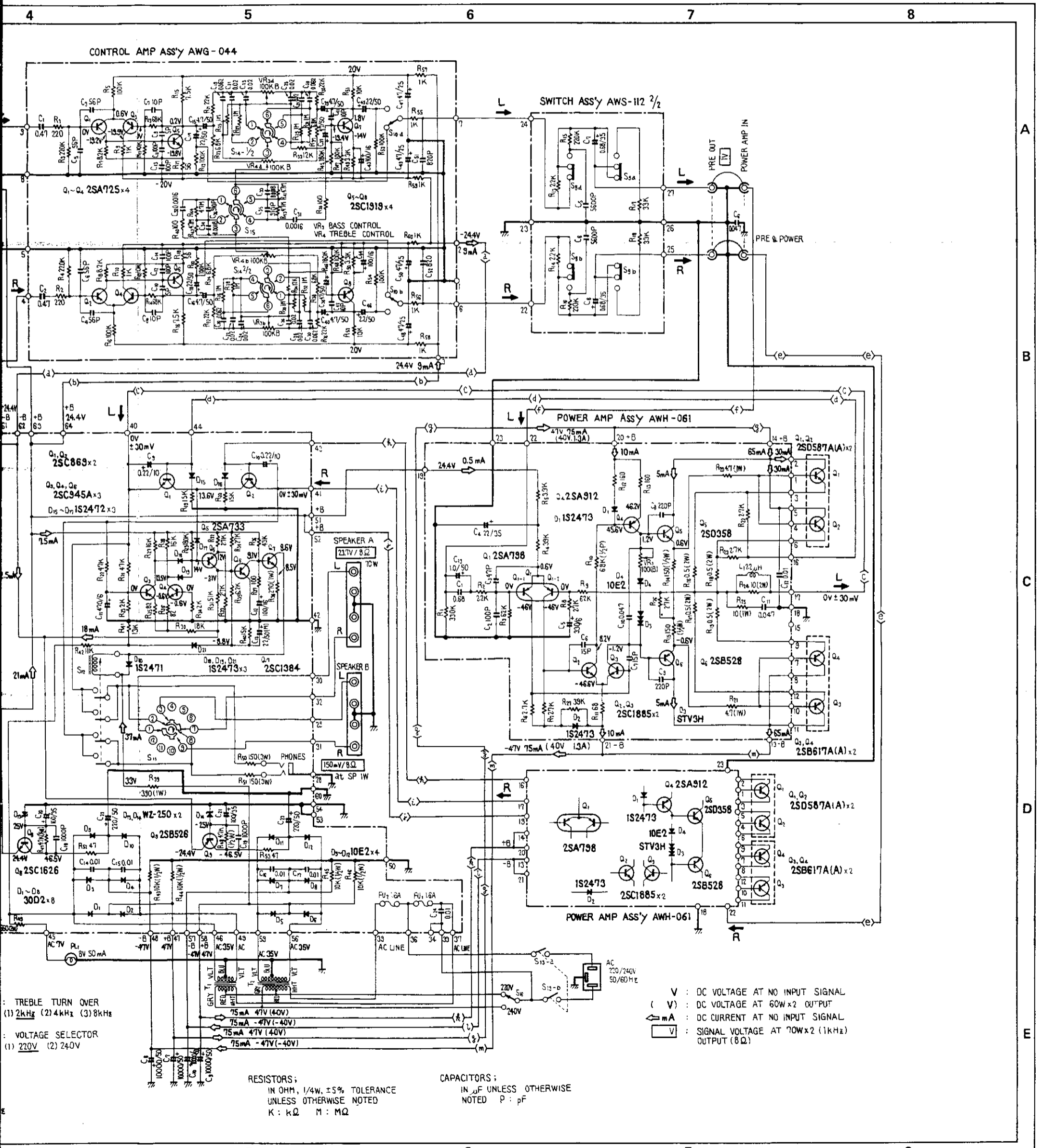
STEREO AMPLIFIER

SA-8500II HG



- SWITCHES:
- | | | | | |
|--|--|--|---|--|
| S ₁ : FUNCTION
(1) PHONO 2 (2) PHONO 1
(3) TUNER (4) AUX | S ₄ : TAPE MONITOR
(1) 1 (2) OFF (3) 2 | S ₇ : LOUDNESS
OFF → ON | S ₁₁ : SPEAKERS
(1) OFF (2) A
(3) B (4) A+B | S ₁₅ : TREBLE TURN OVER
(1) 2kHz (2) 4kHz (3) 8kHz |
| S ₂ : INPUT CAPACITANCE SELECTOR(pF)
(1) 100 (2) 200 (3) 300 (4) 400 | S ₅ : MODE
(1) REV (2) STEREO
(3) L+R (4) L (5) R | S ₈ : HIGH FILTER
OFF → 8kHz | S ₁₂ : RELAY | S ₁₆ : VOLTAGE SELECTOR
(1) 220V (2) 240V |
| S ₃ : DUPLICATE
(1) 1 → 2 (2) OFF (3) 2 → 1 | S ₆ : MUTING
OFF → ON | S ₉ : LOW FILTER
OFF → 15Hz | S ₁₃ : POWER
OFF → ON | |
| | | S ₁₀ : TONE
OFF → ON | S ₁₄ : BASS TURN OVER
(1) 100Hz (2) 200Hz (3) 400Hz | |

RESISTOR
IN Ω
UNL
K :



CONTROL AMP ASS'Y AWG-044

SWITCH ASS'Y AWS-112 1/2

POWER AMP ASS'Y AWH-061

POWER AMP ASS'Y AWH-061

TREBLE TURN OVER
(1) 2kHz (2) 4kHz (3) 8kHz

VOLTAGE SELECTOR
(1) 220V (2) 240V

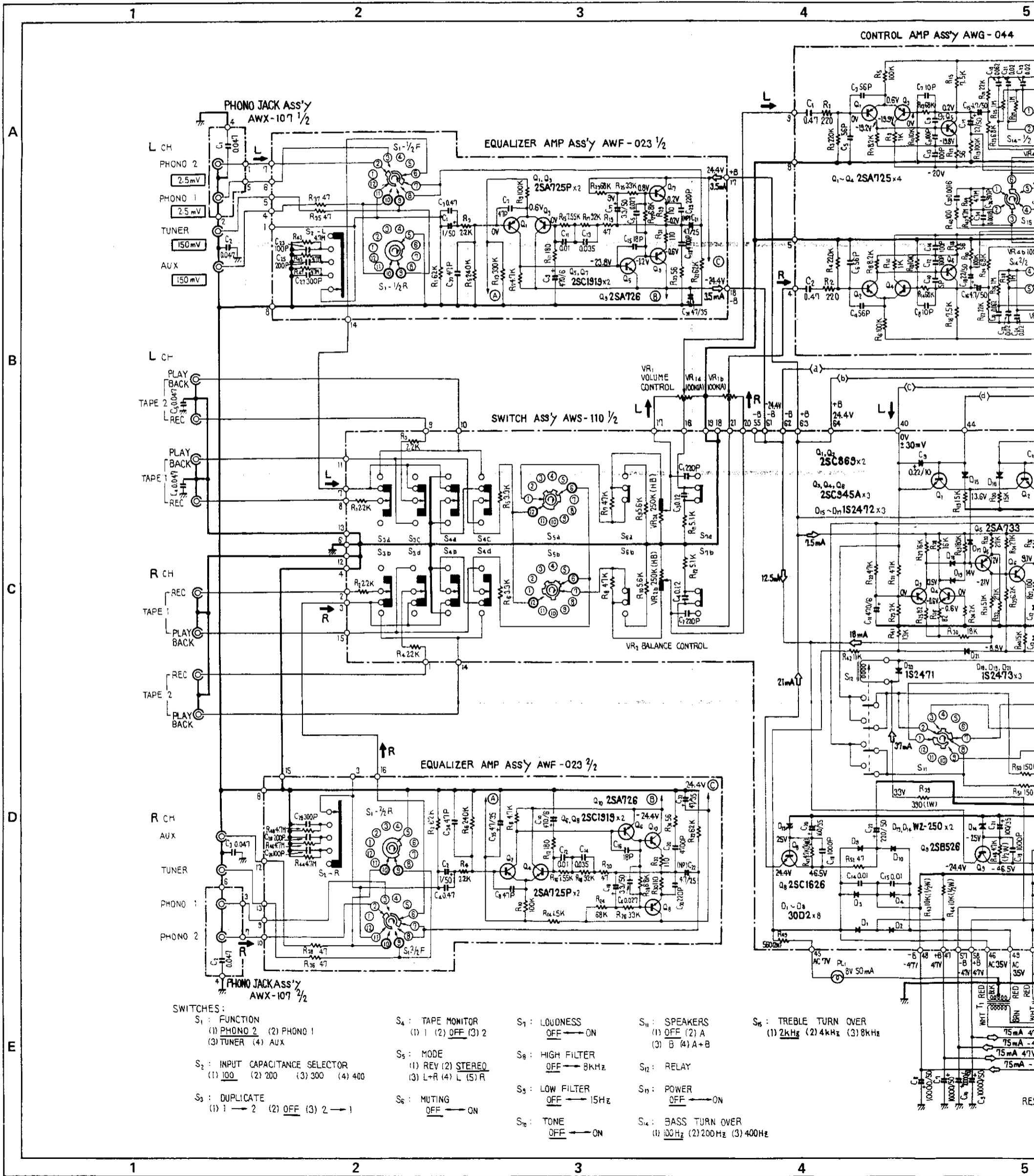
RESISTORS;
IN OHM, 1/4W, ±5% TOLERANCE
UNLESS OTHERWISE NOTED
K: KΩ M: MΩ

CAPACITORS;
IN μF UNLESS OTHERWISE
NOTED P: pF

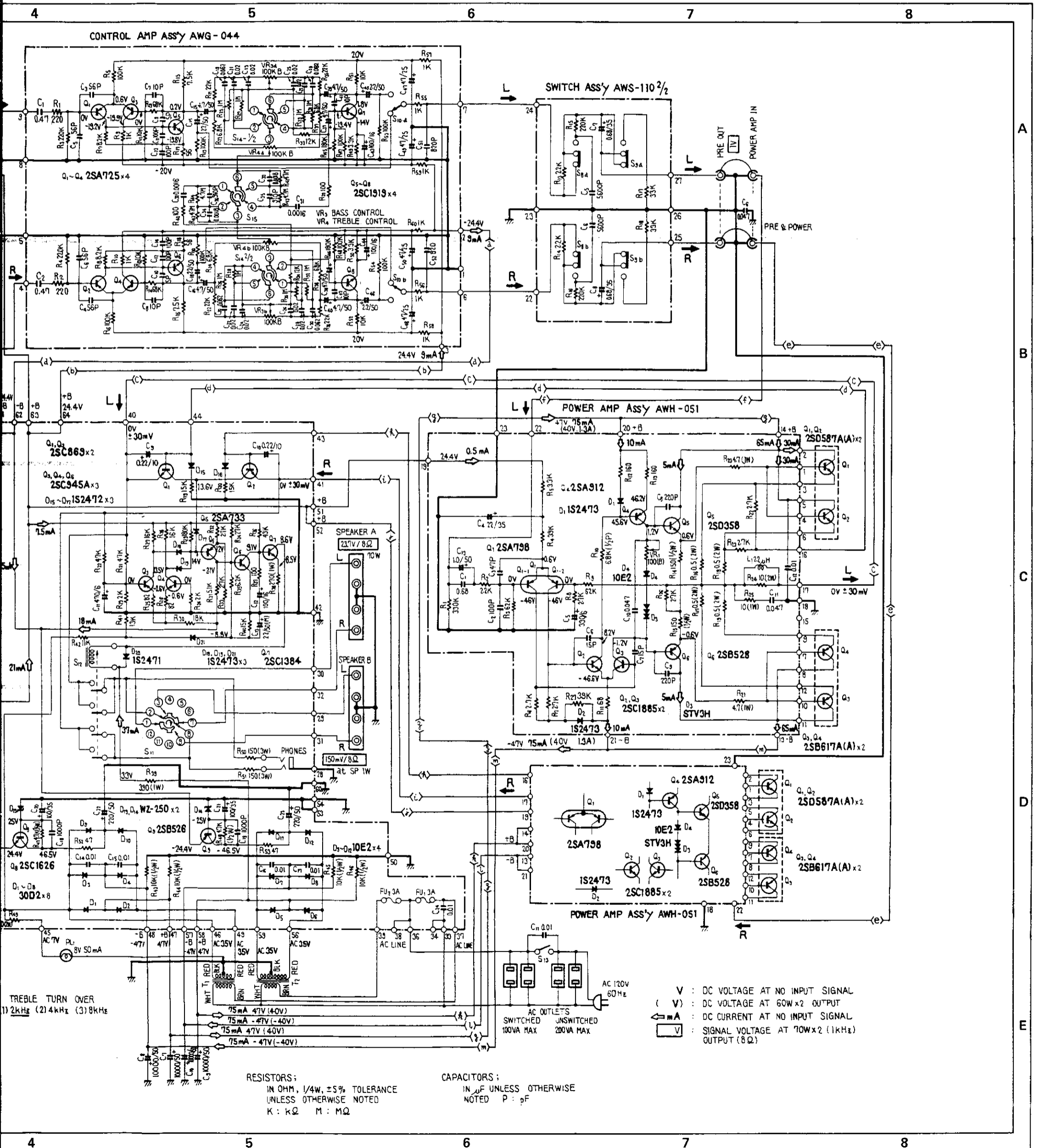
V : DC VOLTAGE AT NO INPUT SIGNAL
(V) : DC VOLTAGE AT 60W x2 OUTPUT
← mA : DC CURRENT AT NO INPUT SIGNAL
[V] : SIGNAL VOLTAGE AT 70W x2 (1kHz)
OUTPUT (8Ω)

STEREO AMPLIFIER

SA-8500II KC



- SWITCHES:
- | | | | |
|--|--|--|---|
| S ₁ : FUNCTION
(1) PHONO 2 (2) PHONO 1
(3) TUNER (4) AUX | S ₄ : TAPE MONITOR
(1) 1 (2) OFF (3) 2 | S ₇ : LOUDNESS
OFF → ON | S ₁₁ : SPEAKERS
(1) OFF (2) A
(3) B (4) A+B |
| S ₂ : INPUT CAPACITANCE SELECTOR
(1) 100 (2) 200 (3) 300 (4) 400 | S ₅ : MODE
(1) REV (2) STEREO
(3) L+R (4) L (5) R | S ₈ : HIGH FILTER
OFF → 8kHz | S ₁₂ : RELAY |
| S ₃ : DUPLICATE
(1) 1 → 2 (2) OFF (3) 2 → 1 | S ₆ : MUTING
OFF → ON | S ₉ : LOW FILTER
OFF → 15Hz | S ₁₃ : POWER
OFF → ON |
| | | S ₁₀ : TONE
OFF → ON | S ₁₄ : BASS TURN OVER
(1) 100Hz (2) 200Hz (3) 400Hz |
- S₆: TREBLE TURN OVER
(1) 2kHz (2) 4kHz (3) 8kHz



TREBLE TURN OVER
1) 2kHz (2) 4kHz (3) 8kHz

RESISTORS:
IN OHM, 1/4W, ±5% TOLERANCE
UNLESS OTHERWISE NOTED
K: kΩ M: MΩ

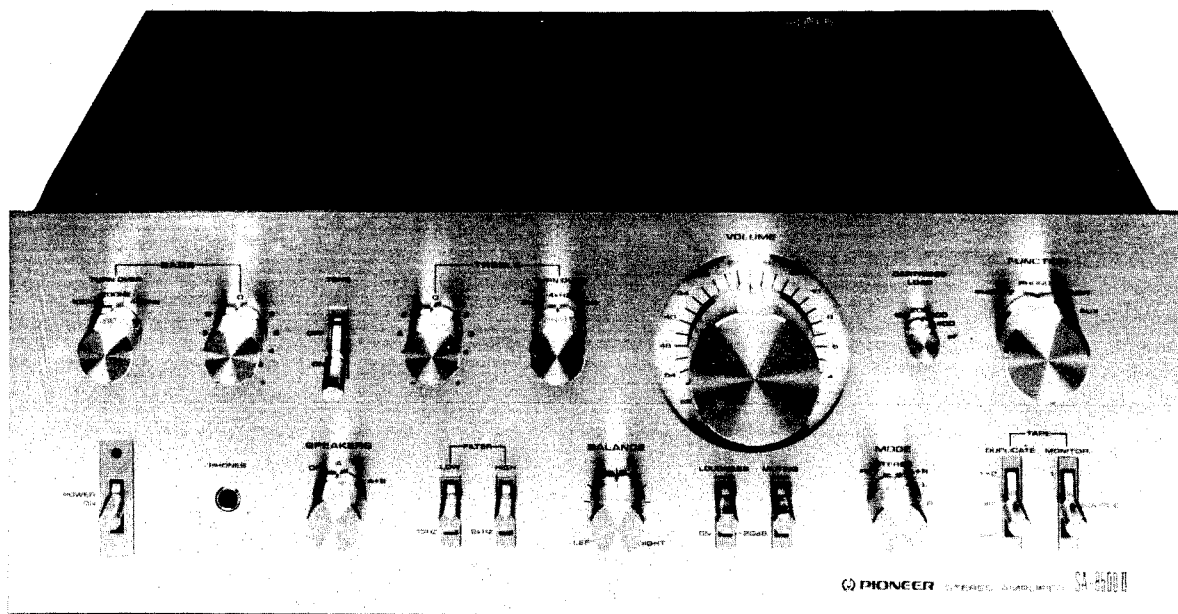
CAPACITORS:
IN μF UNLESS OTHERWISE
NOTED P: pF

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V : SIGNAL VOLTAGE AT 70W x 2 (1kHz)
OUTPUT (8Ω)

STEREO AMPLIFIER
SA-8500II

SERVICE MANUAL

Original



PIONEER®

SCHEMATIC DIAGRAMS, P. C. BOARD PATTERNS AND PARTS LIST

MISCELLANEA

NOTE:

- Capacitors: in μF unless otherwise noted p:pF
- Resistors: in Ω , $\frac{1}{4}W$ unless otherwise noted k:k Ω , M:M Ω

Miscellaneous Parts

SEMICONDUCTORS

Symbol	Description	Part No.
Q1	Transistor	2SD587A/A/-R or Q
Q2	Transistor	2SD587A/A/-R or Q
Q3	Transistor	2SB617A/A/-R or Q
Q4	Transistor	2SB617A/A/-R or Q
Q5	Transistor	2SD587A/A/-R or Q
Q6	Transistor	2SD587A/A/-R or Q
Q7	Transistor	2SB617A/A/-R or Q
Q8	Transistor	2SB617A/A/-R or Q

CAPACITORS

Symbol	Description	Part No.
C2	Ceramic 0.047 50V	CKDYF 473Z 50
C3	Ceramic 0.047 50V	CKDYF 473Z 50
C4	Ceramic 0.047 50V	CKDYF 473Z 50
C5	Ceramic 0.047 50V	CKDYF 473Z 50
C6	Ceramic 0.047 50V	CKDYF 473Z 50
C7	Electrolytic 10,000 50V	ACH-064
C8	Electrolytic 10,000 50V	ACH-064
C9	Electrolytic 10,000 50V	ACH-064
C10	Electrolytic 10,000 50V	ACH-064
C11	Ceramic 0.01 250V	ACG-001

LAMP, FUSES

Symbol	Description	Part No.
PL1	Lamp with leads 8V, 50mA	AEL-081
FU1	Fuse 3A	AEK-101
FU2	Fuse 3A	AEK-101

SWITCH

Symbol	Description	Part No.
S13	Lever switch (POWER)	ASK-124

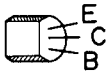

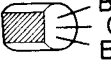
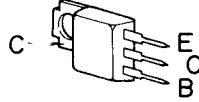
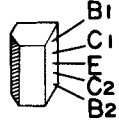
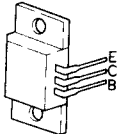
TRANSFORMERS

Symbol	Description	Part No.
T1	Power transformer (L)	ATT-366
T2	Power transformer (R)	ATT-367

RESISTOR

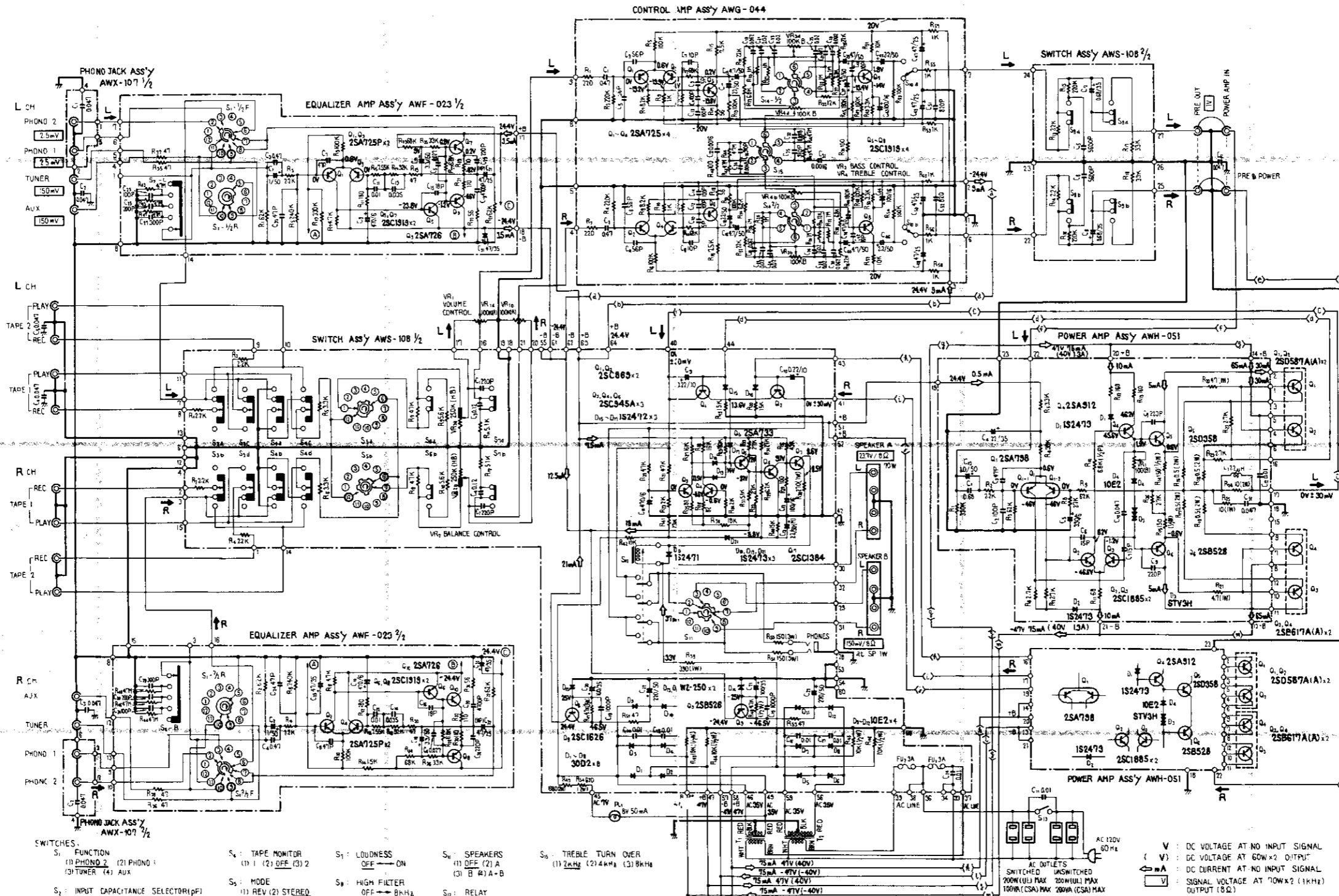
Symbol	Description	Part No.
VR1	Variable resistor 100k 32-step (VOLUME)	ACV-171

External Appearances of Transistors

Type	Fig.
2SA725 2SA725P 2SA726 2SC869 2SC1919	
2SA733 2SC945A	
2SA912 2SC1384 2SC1885	
2SB526 2SD356	
2SA798	
2SB617A(A) 2SD587A(A)	

SCHMATIC DIAGRAM

NOTE:
The indicated semiconductors are representative ones only. Other alternative semiconductors may be used and are listed in the parts lists.



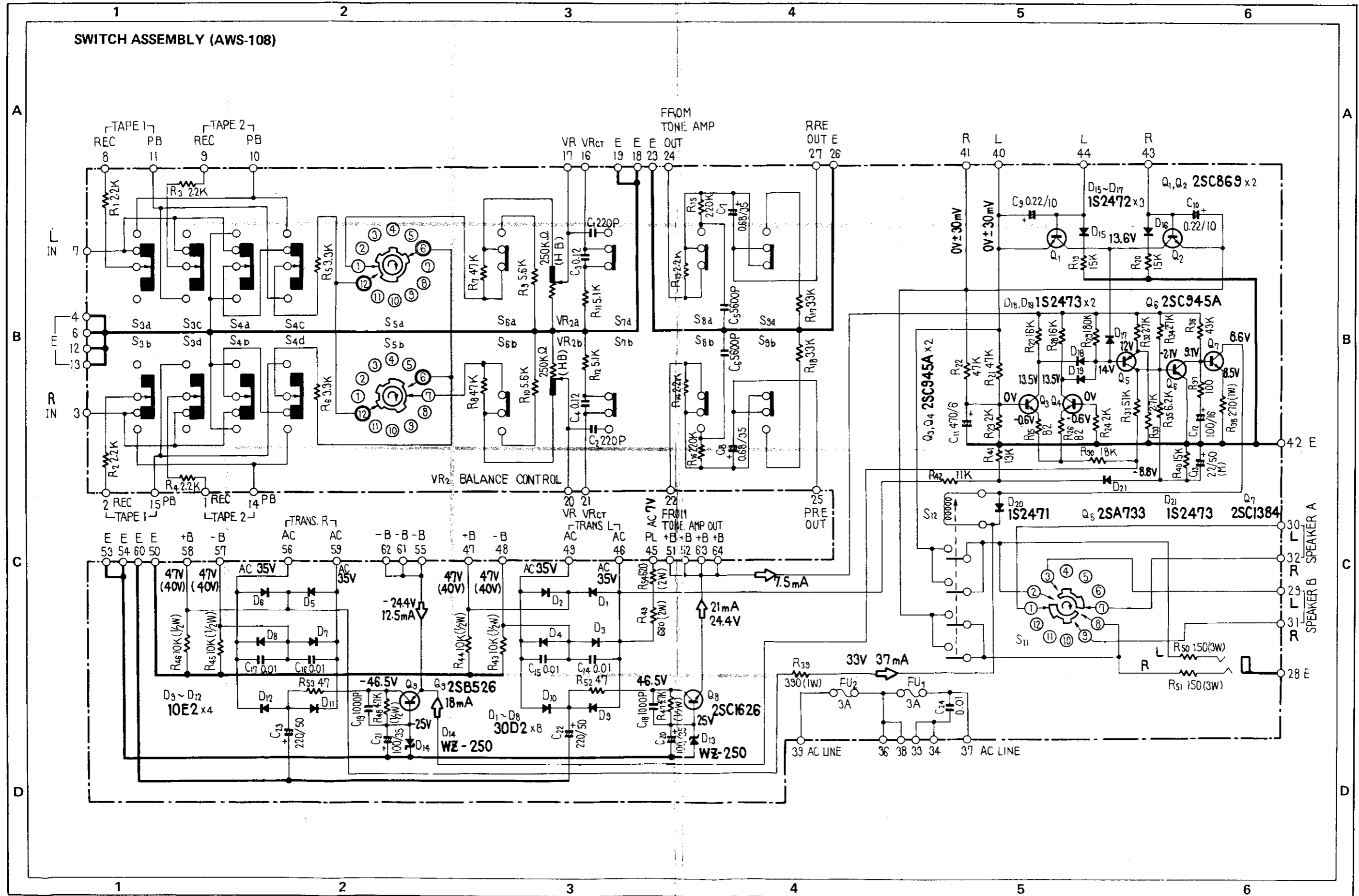
- SWITCHES:
- S₁: FUNCTION (1) PHONO 2 (2) PHONO 1 (3) TUNER (4) AUX
 - S₂: INPUT CAPACITANCE SELECTOR (pF) (1) 150 (2) 200 (3) 300 (4) 400
 - S₃: DUPLICATE (1) 1 → 2 (2) OFF (3) 2 → 1
 - S₄: TAPE MONITOR (1) 1 (2) OFF (3) 2
 - S₅: MODE (1) REV (2) STEREO (3) L-R (4) L (5) R
 - S₆: MUTING OFF → ON
 - S₇: LOUDNESS OFF → ON
 - S₈: HIGH FILTER OFF → 8KHz
 - S₉: LOW FILTER OFF → 15Hz
 - S₁₀: TONE OFF → ON
 - S₁₁: SPEAKERS (1) OFF (2) A (3) B (4) A-B
 - S₁₂: RELAY
 - S₁₃: POWER OFF → ON
 - S₁₄: BASS TURN OVER (1) 100Hz (2) 200Hz (3) 400Hz
 - S₁₅: TREBLE TURN OVER (1) 2KHz (2) 4KHz (3) 8KHz

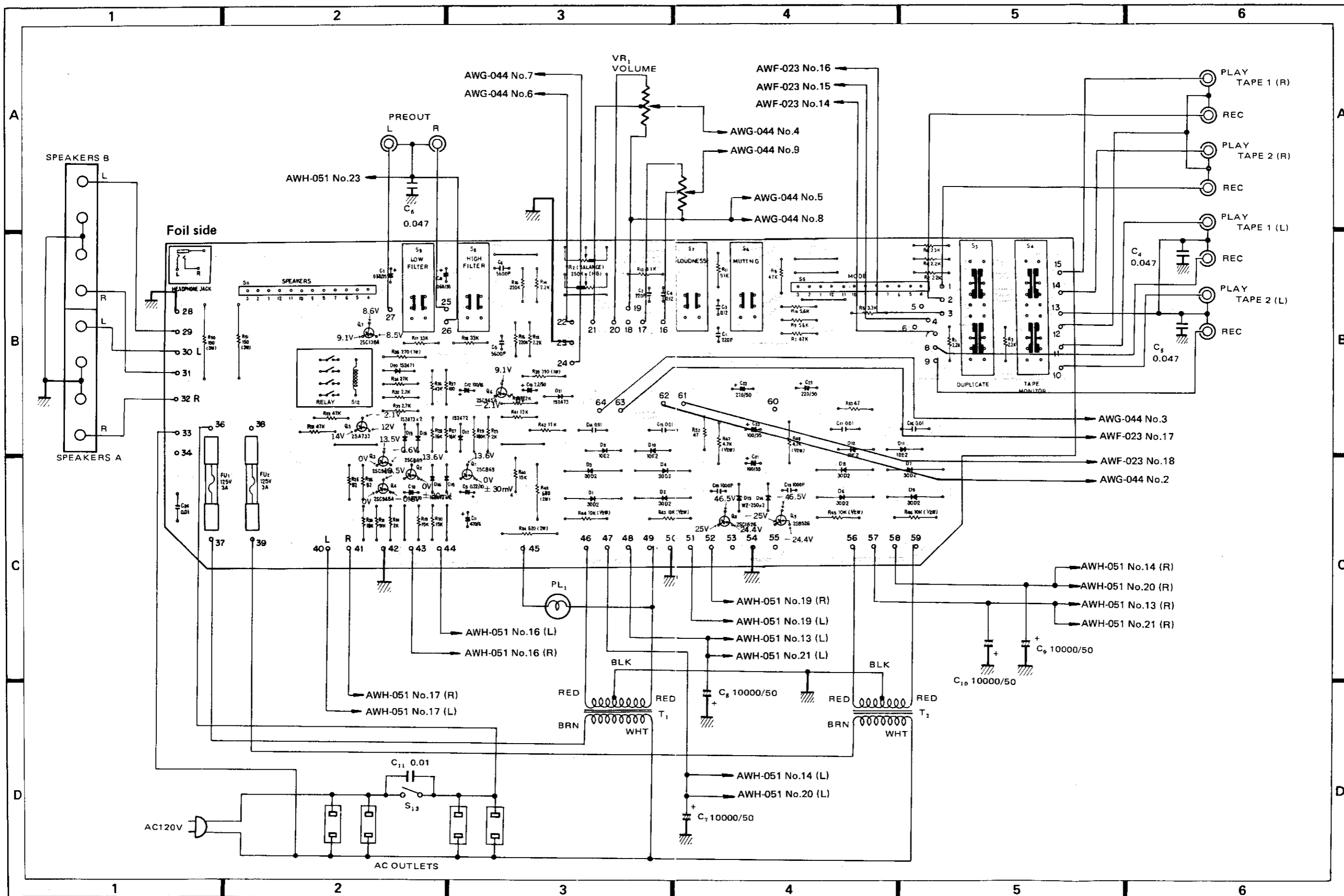
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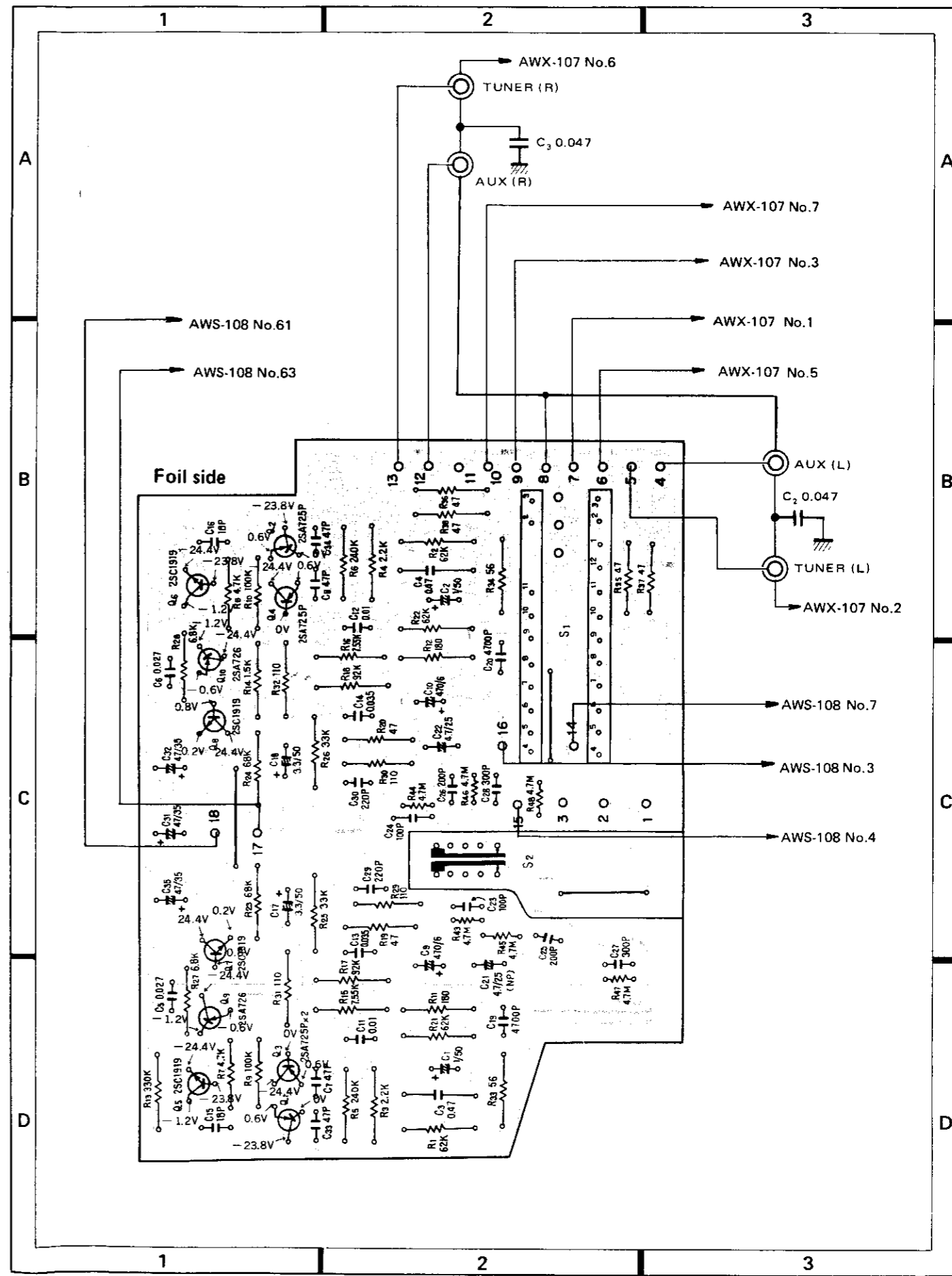
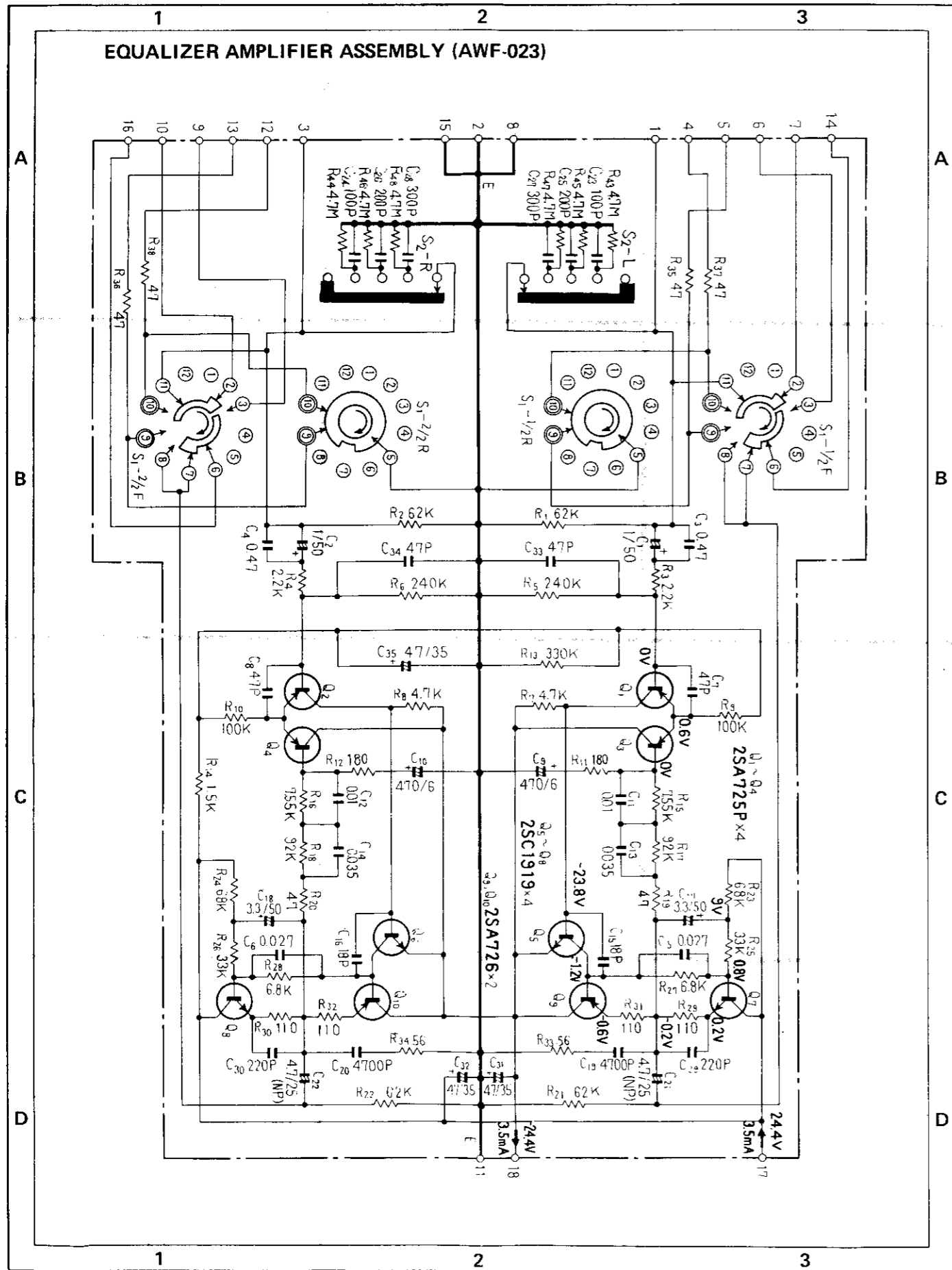
CAPACITORS: IN μF UNLESS OTHERWISE NOTED P: pF

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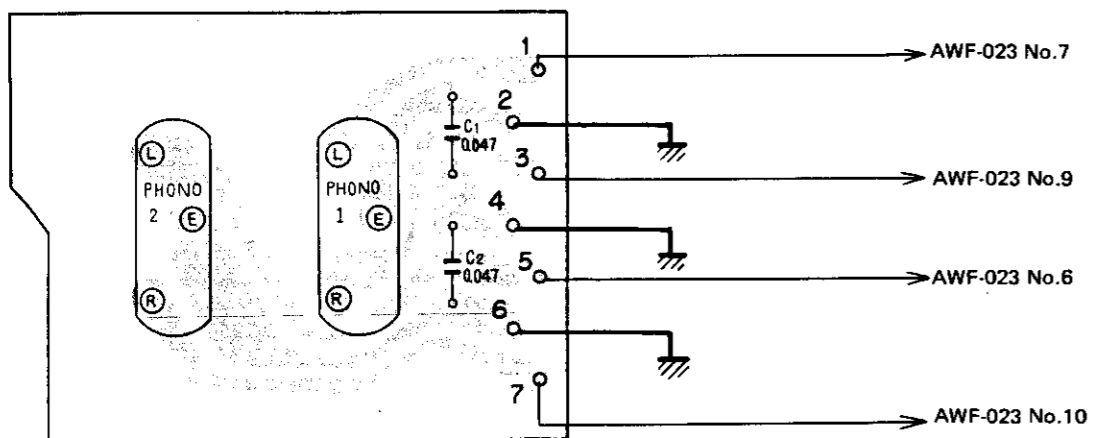
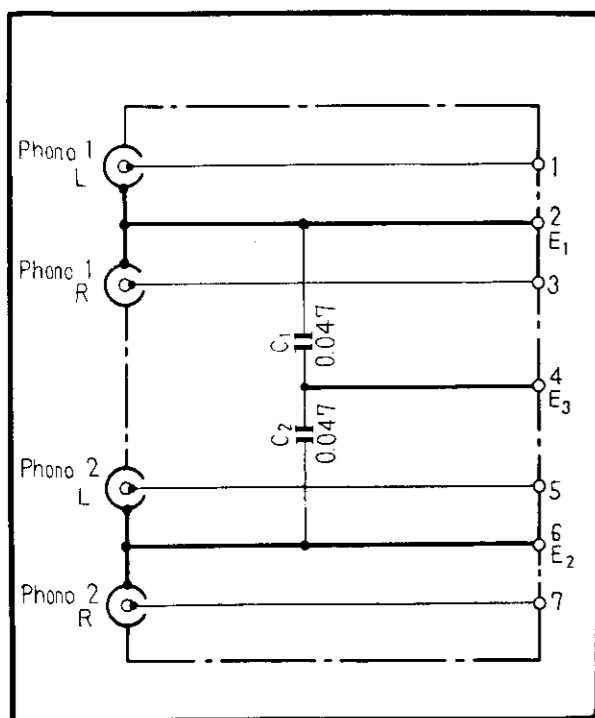
1 2 3 4 5 6







PHONO JACK ASSEMBLY (AWX-107)



CONTROL AMPLIFIER ASSEMBLY (AWG-044)

