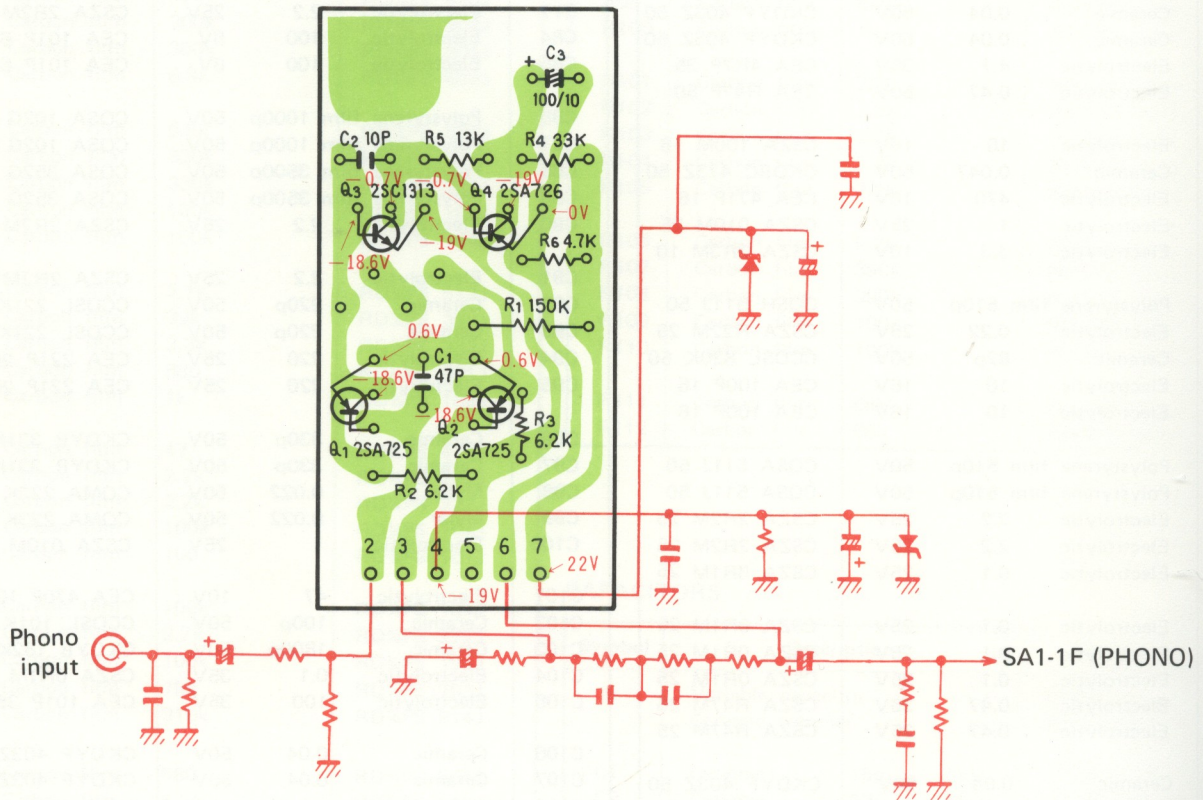
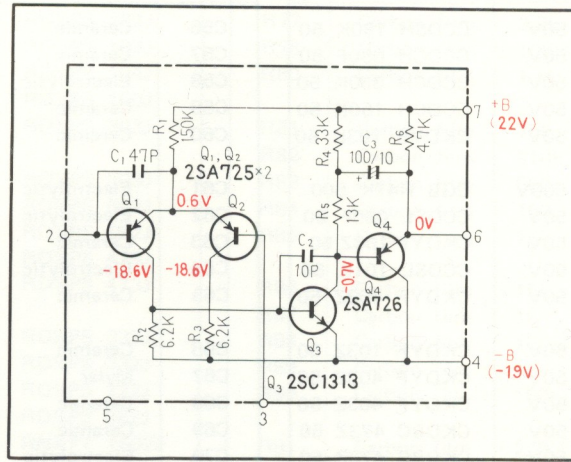


12.4 EQUALIZER AMPLIFIER ASSEMBLY (AWK-065)



Parts List

SEMICONDUCTORS

Symbol	Description	Part No.
Q1	Transistor	2SA725-G (2SA640-E)
Q2	Transistor	2SA725-G (2SA640-E)
Q3	Transistor	2SC1313-G
Q4	Transistor	2SA726-G (2SA640-E)

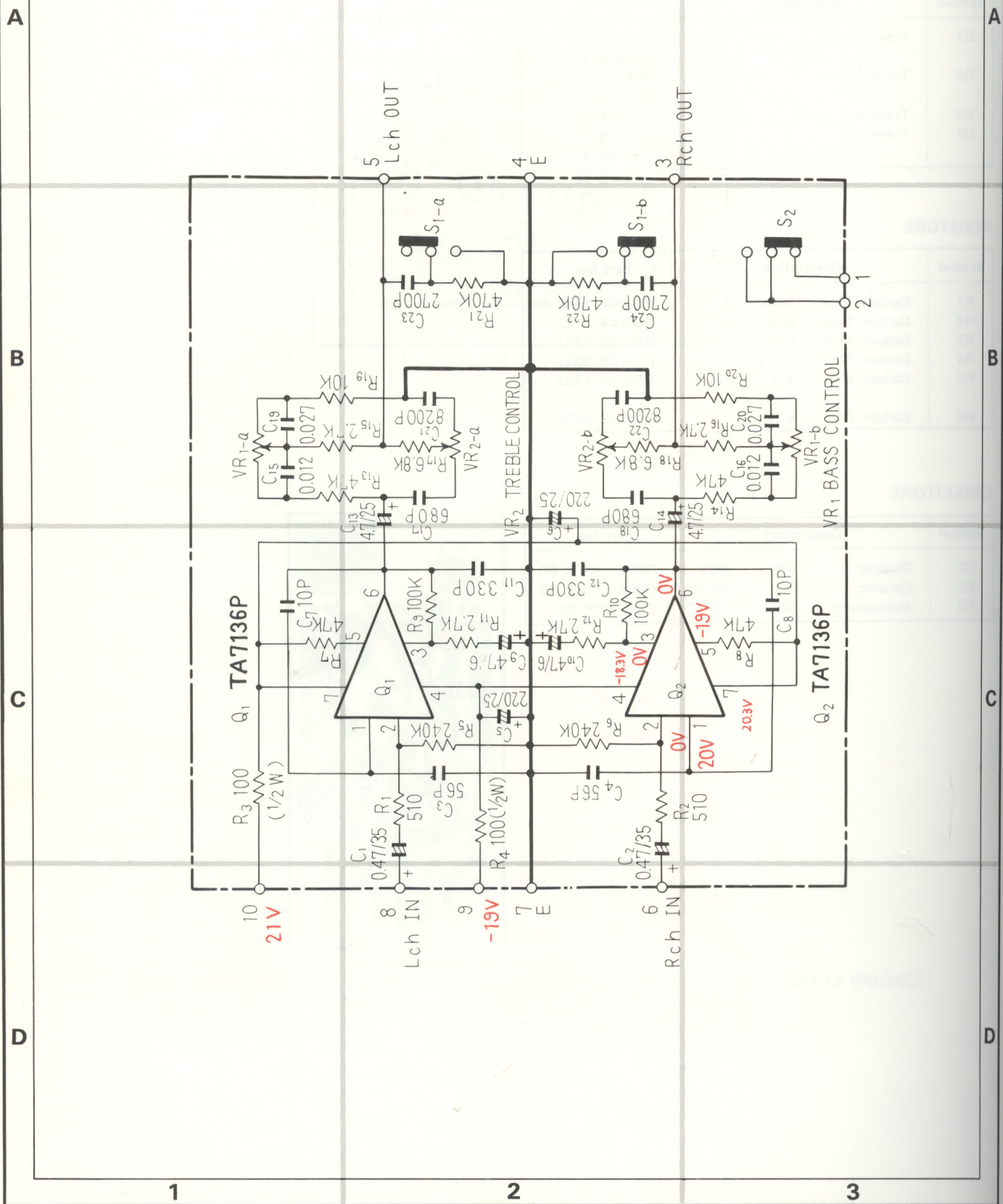
RESISTORS

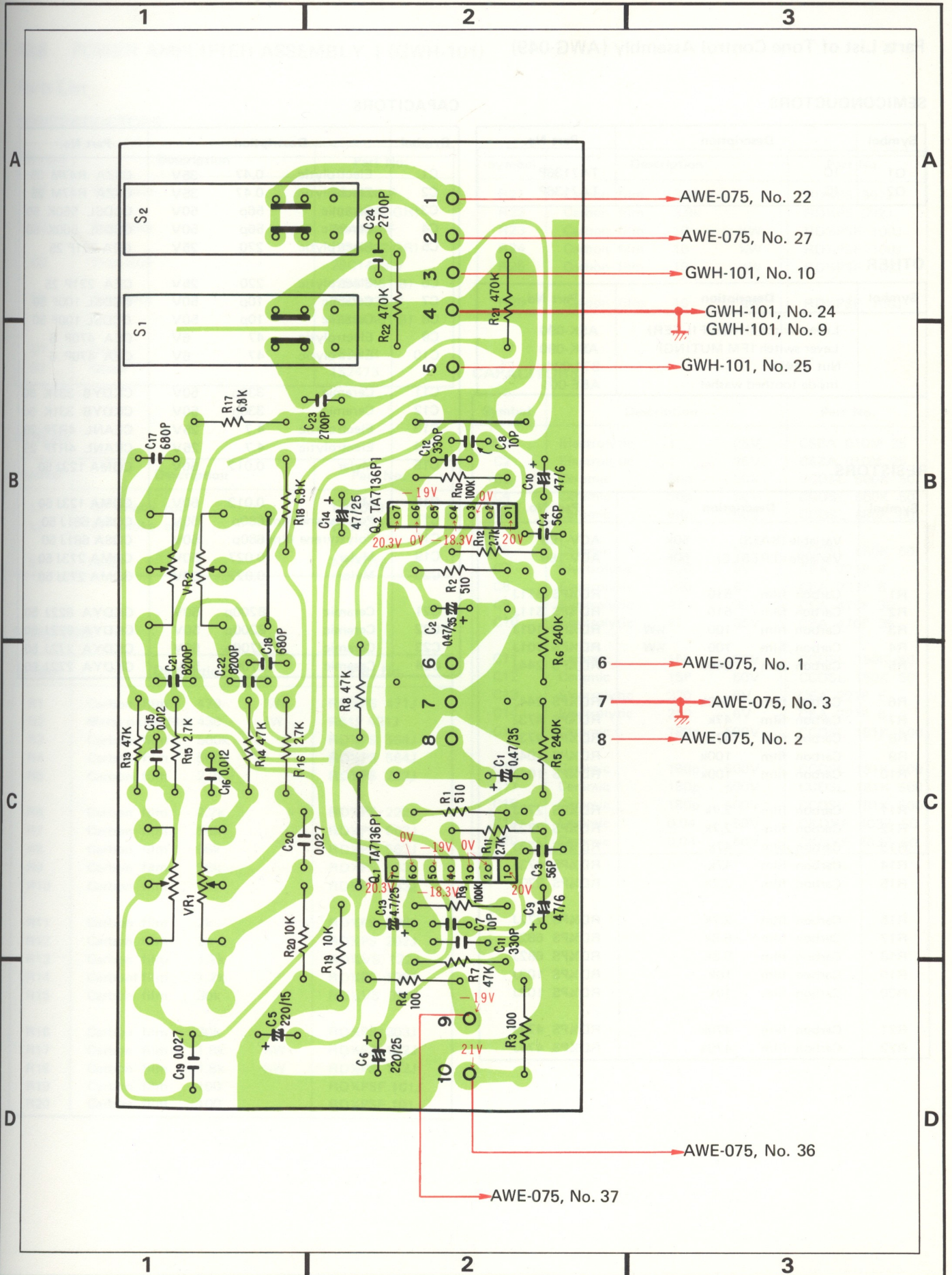
Symbol	Description	Part No.
R1	Carbon film 150k	RD $\frac{1}{4}$ VS 154J NL
R2	Carbon film 6.2k	RD $\frac{1}{4}$ VS 622J
R3	Carbon film 6.2k	RD $\frac{1}{4}$ VS 622J
R4	Carbon film 33k	RD $\frac{1}{4}$ VS 333J
R5	Carbon film 13k	RD $\frac{1}{4}$ VS 133J
R6	Carbon film 4.7k	RD $\frac{1}{4}$ VS 472J

CAPACITORS

Symbol	Description	Part No.
C1	Ceramic 47p 50V	CCDSL 470K 50
C2	Ceramic 10p 50V	CCDSL 100K 50
C3	Electrolytic 100 10V	CEA 101P 10

12.5 TONE CONTROL ASSEMBLY (AWG-049)





Parts List of Tone Control Assembly (AWG-049)

SEMICONDUCTORS

Symbol	Description	Part No.
Q1	IC	TA7136P
Q2	IC	TA7136P

OTHER

Symbol	Description	Part No.
	Lever switch (HIGH FILTER)	ASK-090
	Lever switch (FM MUTING)	ASK-090
	Nut (9φ)	B71-004
	Inside-toothed washer	ABE-001

RESISTORS

Symbol	Description	Part No.
	Variable (BASS) 50k	ACV-159
	Variable (TREBLE) 50k	ACV-160
R1	Carbon film 510	RD $\frac{1}{4}$ PS 511J
R2	Carbon film 510	RD $\frac{1}{4}$ PS 511J
R3	Carbon film 100 $\frac{1}{2}$ W	RD $\frac{1}{2}$ PS 101J
R4	Carbon film 100 $\frac{1}{2}$ W	RD $\frac{1}{2}$ PS 101J
R5	Carbon film 240k	RD $\frac{1}{4}$ PS 244J
R6	Carbon film 240k	RD $\frac{1}{4}$ PS 244J
R7	Carbon film 47k	RD $\frac{1}{4}$ PS 473J
R8	Carbon film 47k	RD $\frac{1}{4}$ PS 473J
R9	Carbon film 100k	RD $\frac{1}{4}$ PS 104J
R10	Carbon film 100k	RD $\frac{1}{4}$ PS 104J
R11	Carbon film 2.7k	RD $\frac{1}{4}$ PS 272J
R12	Carbon film 2.7k	RD $\frac{1}{4}$ PS 272J
R13	Carbon film 47k	RD $\frac{1}{4}$ PS 473J
R14	Carbon film 47k	RD $\frac{1}{4}$ PS 473J
R15	Carbon film 2.7k	RD $\frac{1}{4}$ PS 272J
R16	Carbon film 2.7k	RD $\frac{1}{4}$ PS 272J
R17	Carbon film 6.8k	RD $\frac{1}{4}$ PS 682J
R18	Carbon film 6.8k	RD $\frac{1}{4}$ PS 682J
R19	Carbon film 10k	RD $\frac{1}{4}$ PS 103J
R20	Carbon film 10k	RD $\frac{1}{4}$ PS 103J
R21	Carbon film 470k	RD $\frac{1}{4}$ PS 474J
R22	Carbon film 470k	RD $\frac{1}{4}$ PS 474J

CAPACITORS

Symbol	Description	Part No.
C1	Electrolytic 0.47 35V	CSZA R47M 35
C2	Electrolytic 0.47 35V	CSZA R47M 25
C3	Ceramic 56p 50V	CCDSL 560K 50
C4	Ceramic 56p 50V	CCDSL 560K 50
C5	Electrolytic 220 25V	CEA 221P 25
C6	Electrolytic 220 25V	CEA 221P 25
C7	Ceramic 10p 50V	CCDSL 100F 50
C8	Ceramic 10p 50V	CCDSL 100F 50
C9	Electrolytic 47 6V	CEA 470P 6
C10	Electrolytic 47 6V	CEA 470P 6
C11	Ceramic 330p 50V	CKDYB 331K 50
C12	Ceramic 330p 50V	CKDYB 331K 50
C13	Electrolytic 4.7 25V	CEANL 4R7P 25
C14	Electrolytic 4.7 25V	CEANL 4R7P 25
C15	Mylar 0.012 50V	CQMA 123J 50
C16	Mylar 0.012 50V	CQMA 123J 50
C17	Polystyrene film 680p 50V	CQSA 681J 50
C18	Polystyrene film 680p 50V	CQSA 681J 50
C19	Mylar 0.027 50V	CQMA 273J 50
C20	Mylar 0.027 50V	CQMA 273J 50
C21	Ceramic 8200p 50V	CKDYA 822J 50
C22	Ceramic 8200p 50V	CKDYA 822J 50
C23	Ceramic 2700p 50V	CKDYA 272J 50
C24	Ceramic 2700p 50V	CKDYA 272J 50

12.6 POWER AMPLIFIER ASSEMBLY 1 (GWH-101)

Parts List

SEMICONDUCTORS

Symbol	Description	Part No.
Q1	Transistor	2SA798-F (2SA842-GR)
Q2	Transistor	2SA798-F (2SA842-GR)
Q3	Transistor	2SC1438-V (2SC1451-B)
Q4	Transistor	2SC1438-V (2SC1451-B)
D1	Diode	1S2473
D2	Diode	1S2473

Symbol	Description	Part No.
R21	Carbon film 3.9k	RD½PS 392J
R22	Carbon film 3.9k	RD½PS 392J
R23	Carbon film 10 ½W	RD½PSF 100J
R24	Carbon film 10 ½W	RD½PSF 100J
R25	Carbon film 10 ½W	RD½PSF 100J
R26	Carbon film 10 ½W	RD½PSF 100J

OTHERS

Symbol	Description	Part No.
L1	AF choke coil	T63-009
L2	AF choke coil	T63-009
S1	Relay	ASR-018

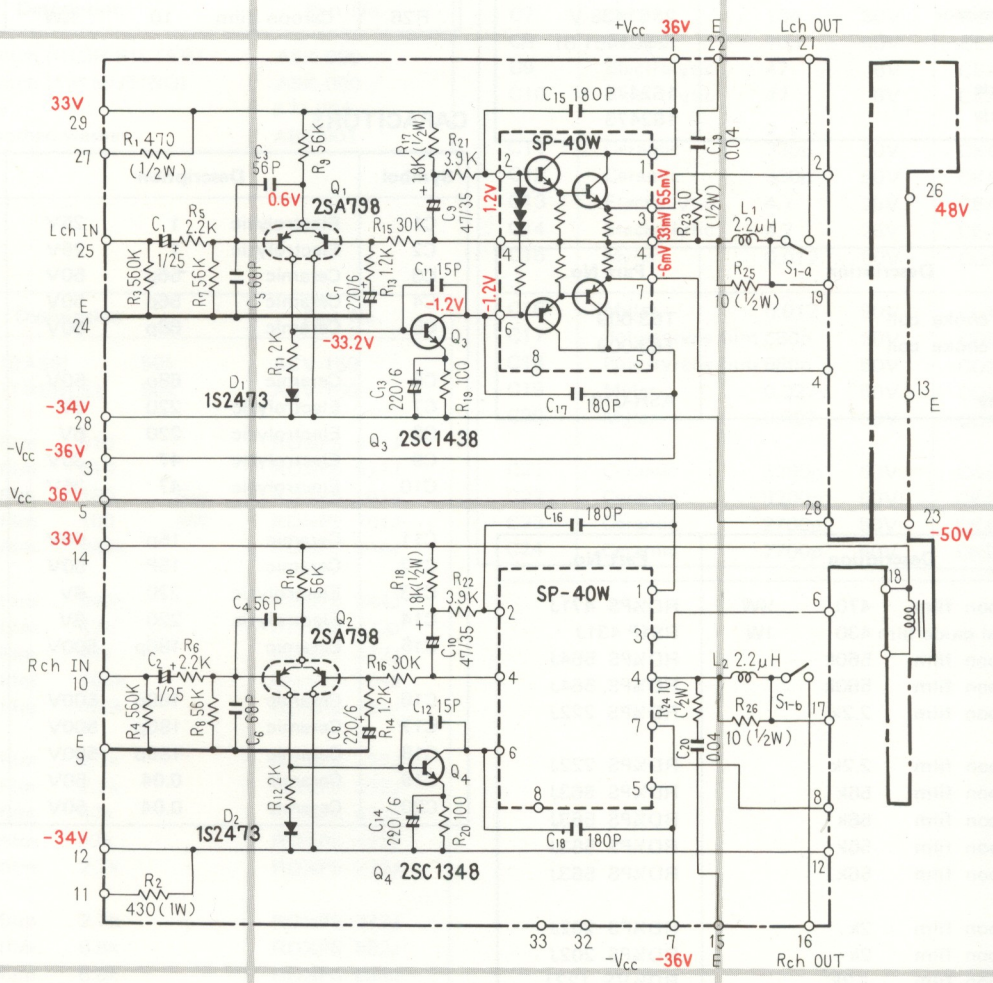
CAPACITORS

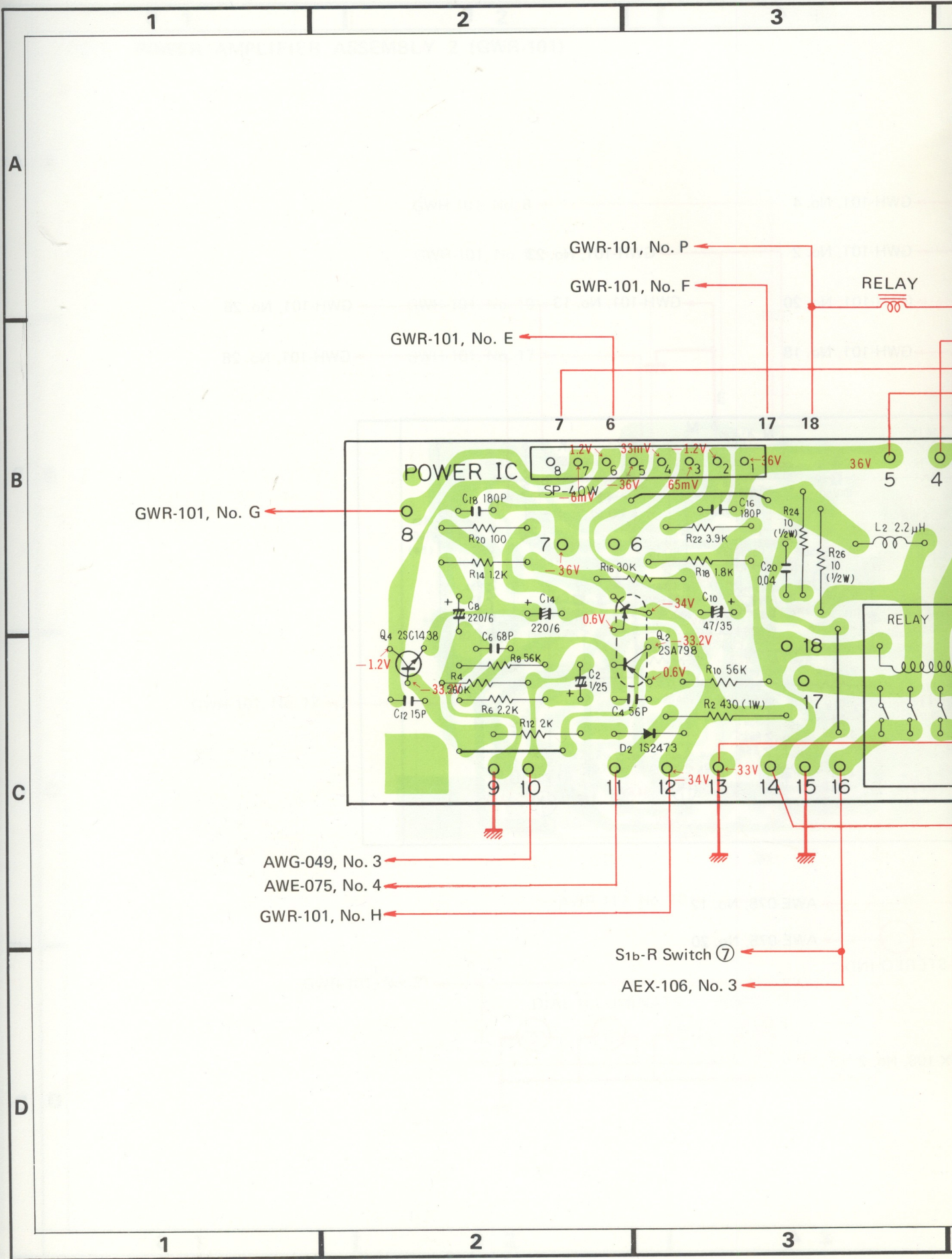
Symbol	Description	Part No.
C1	Electrolytic 1 25V	CSZA 010M 25
C2	Electrolytic 1 25V	CSZA 010M 25
C3	Ceramic 56p 50V	CCDSL 560K 50
C4	Ceramic 56p 50V	CCDSL 560K 50
C5	Ceramic 68p 50V	CCDSL 680K 50
C6	Ceramic 68p 50V	CCDSL 680K 50
C7	Electrolytic 220 6V	CEA 221P 6
C8	Electrolytic 220 6V	CEA 221P 6
C9	Electrolytic 47 35V	CEA 470P 35
C10	Electrolytic 47 35V	CEA 470P 35
C11	Ceramic 15p 50V	CCDSL 150K 50
C12	Ceramic 15p 50V	CCDSL 150K 50
C13	Electrolytic 220 6V	CEA 221P 6
C14	Electrolytic 220 6V	CEA 221P 6
C15	Ceramic 180p 500V	CCDSL 181K 500
C16	Ceramic 180p 500V	CCDSL 181K 500
C17	Ceramic 180p 500V	CCDSL 181K 500
C18	Ceramic 180p 500V	CCDSL 181K 500
C19	Ceramic 0.04 50V	CKDYF 403Z 50
C20	Ceramic 0.04 50V	CKDYF 403Z 50

RESISTORS

Symbol	Description	Part No.
R1	Carbon film 470 ½W	RD½PS 471J
R2	Metal oxide film 430 1W	RS1P 431J
R3	Carbon film 560k	RD½PS 564J
R4	Carbon film 560k	RD½PS 564J
R5	Carbon film 2.2k	RD½PS 222J
R6	Carbon film 2.2k	RD½PS 222J
R7	Carbon film 56k	RD½PS 563J
R8	Carbon film 56k	RD½PS 563J
R9	Carbon film 56k	RD½PS 563J
R10	Carbon film 56k	RD½PS 563J
R11	Carbon film 2k	RD½PS 202J
R12	Carbon film 2k	RD½PS 202J
R13	Carbon film 1.2k	RD½VS 122J
R14	Carbon film 1.2k	RD½PS 122J
R15	Carbon film 30k	RD½VS 303J
R16	Carbon film 30k	RD½PS 303J
R17	Carbon film 1.8k ½W	RD½PS 182J
R18	Carbon film 1.8k ½W	RD½PS 182J
R19	Carbon film 100	RD½PSF 101J
R20	Carbon film 100	RD½PSF 101J

Power Amplifier Assembly 1 (GWH-101)





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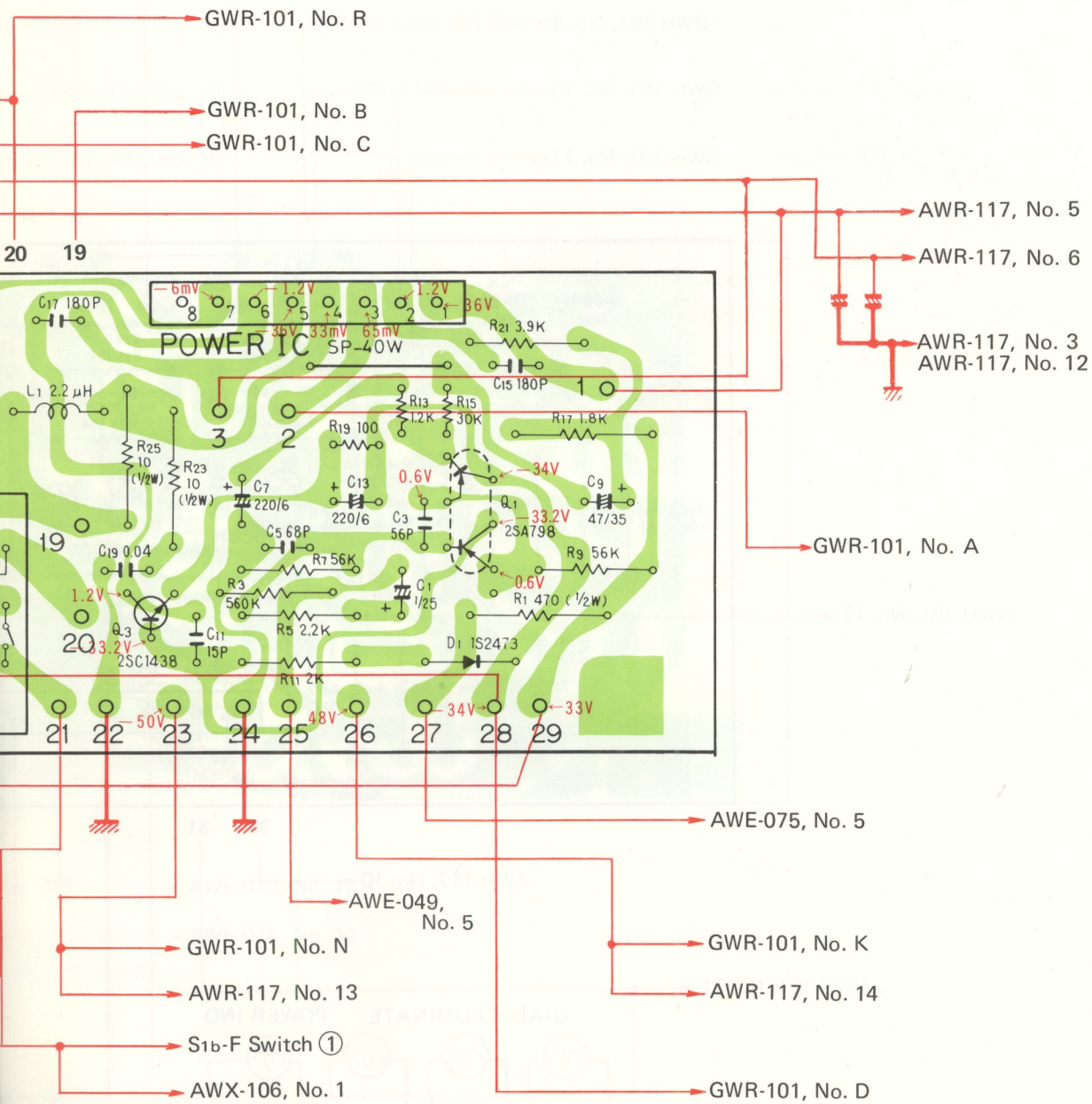
6

A

B

C

D



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12.7 POWER AMPLIFIER ASSEMBLY 2 (GWR-101)

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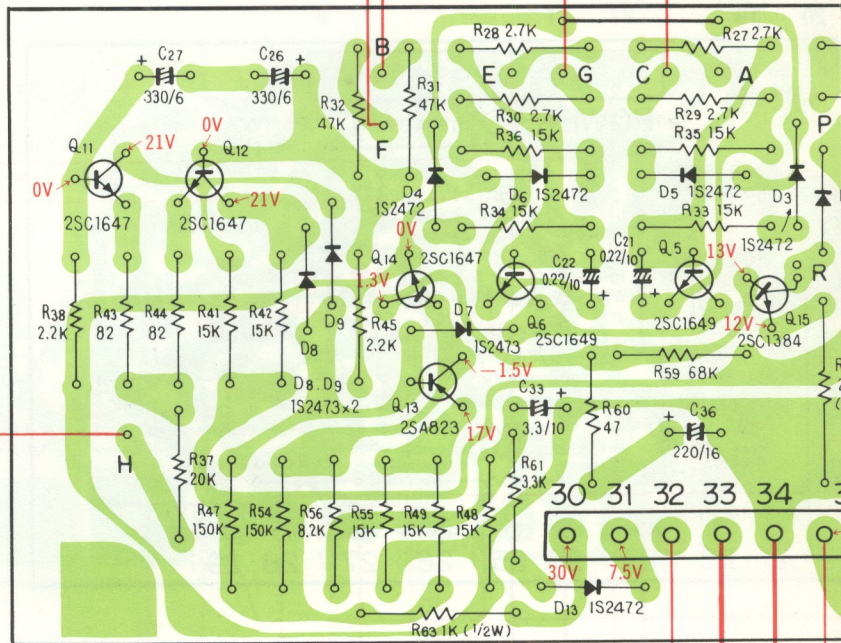
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GWH-101, No. 8

GWH-101, No. 6

GWH-101, No. 19

GWH-101, No. 17

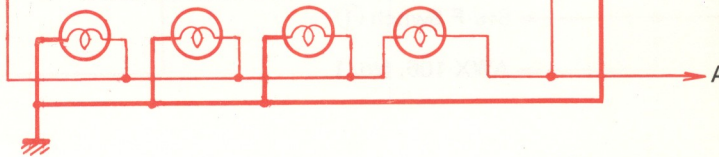


GWH-101, No. 12

AWR-117, No. 10

GWR-101, No. 31

DIAL ILLUMINATE POWER IND



4

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6

A

B

C

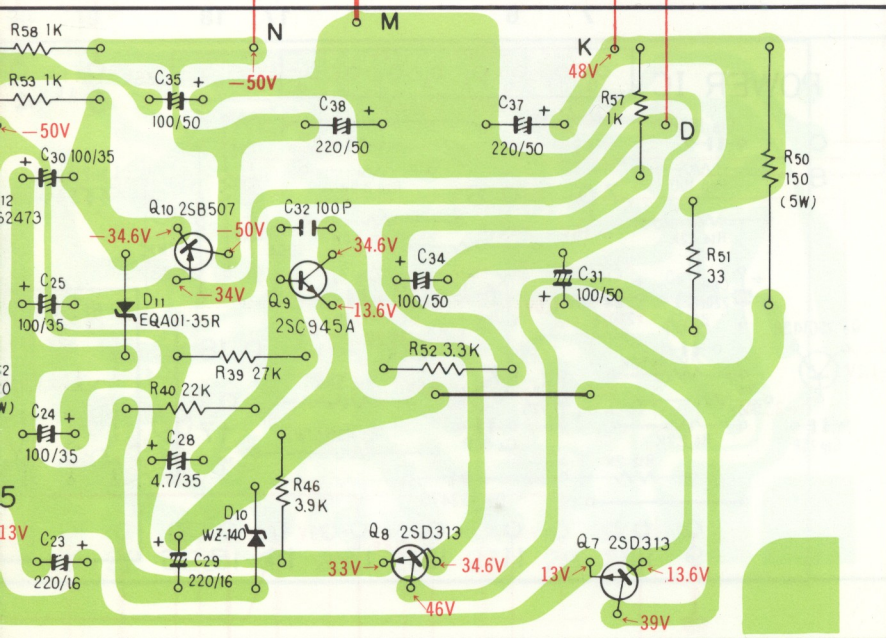
D

→ GWH-101, No. 4

→ GWH-101, No. 2 → GWH-101, No. 23

→ GWH-101, No. 20 → GWH-101, No. 13 → GWH-101, No. 26

→ GWH-101, No. 18 → GWH-101, No. 28



→ AWE-075, No. 12

→ AWE-075, No. 20

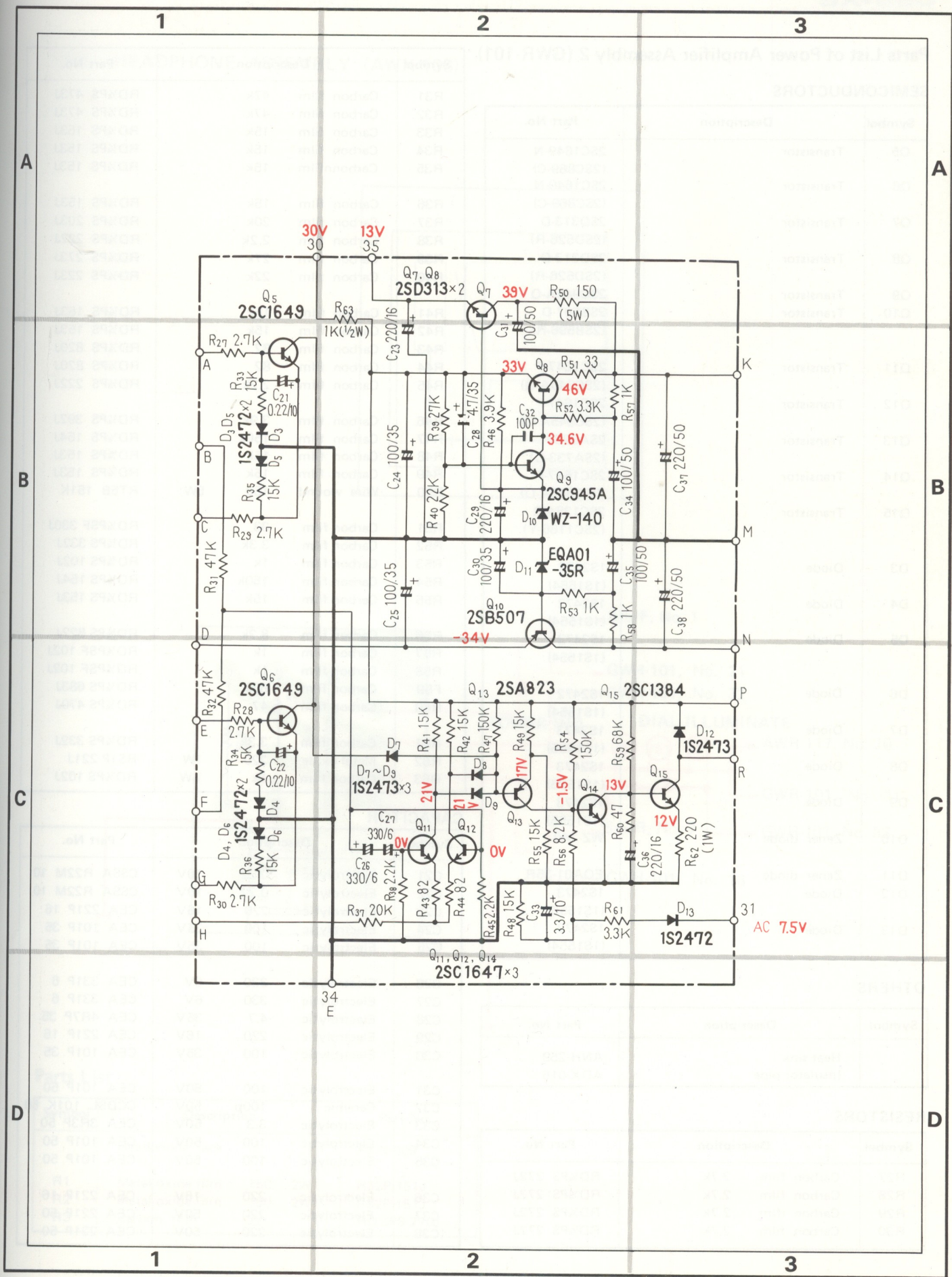
STEREO IND

WX-106, No. 2

4

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6



Parts List of Power Amplifier Assembly 2 (GWR-101)

SEMICONDUCTORS

Symbol	Description	Part No.
Q5	Transistor	2SC1649-N (2SC869-C)
Q6	Transistor	2SC1649-N (2SC869-C)
Q7	Transistor	2SD313-D (2SD526-R)
Q8	Transistor	2SD313-D (2SD526-R)
Q9	Transistor	2SC945A-Q
Q10	Transistor	2SB507-D (2SB596-R)
Q11	Transistor	2SC1647-P (2SC945A-Q)
Q12	Transistor	2SC1647-P (2SC945A-Q)
Q13	Transistor	2SA823-P (2SA733-Q)
Q14	Transistor	2SC1647-P (2SC945A-Q)
Q15	Transistor	2SC1384-Q (2SC1166-Y)
D3	Diode	1S2472 (1S1554)
D4	Diode	1S2472 (1S1554)
D5	Diode	1S2472 (1S1554)
D6	Diode	1S2472 (1S1554)
D7	Diode	1S2473 (1S1555)
D8	Diode	1S2473 (1S1555)
D9	Diode	1S2473 (1S1555)
D10	Zener diode	WZ-140
D11	Zener diode	EQA01-35R
D12	Diode	1S2473 (1S1555)
D13	Diode	1S2472 (1S1554)

OTHERS

Symbol	Description	Part No.
	Heat sink	ANH-259
	Insulator pipe	ADX-016

RESISTORS

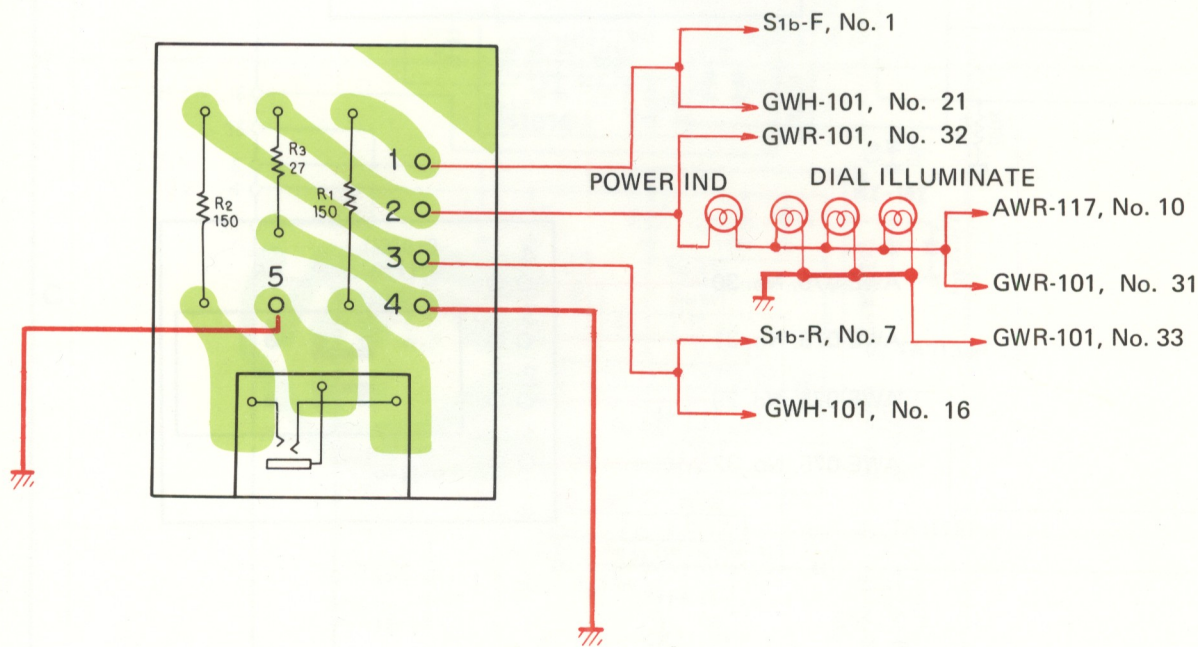
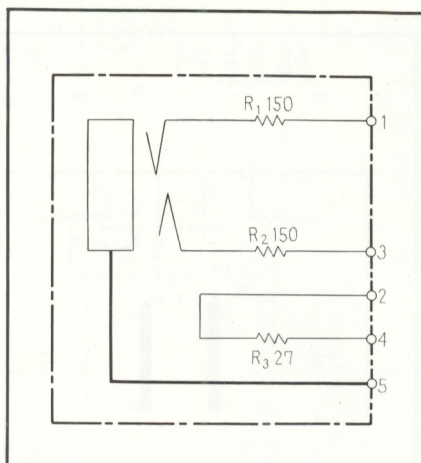
Symbol	Description	Part No.
R27	Carbon film 2.7k	RD¼PS 272J
R28	Carbon film 2.7k	RD¼PS 272J
R29	Carbon iflm 2.7k	RD¼PS 272J
R30	Carbon film 2.7k	RD¼PS 272J

Symbol	Description	Part No.
R31	Carbon film 47k	RD¼PS 473J
R32	Carbon film 47k	RD¼PS 473J
R33	Carbon film 15k	RD¼PS 153J
R34	Carbon film 15k	RD¼PS 153J
R35	Carbonfilm 15k	RD¼PS 153J
R36	Carbon film 15k	RD¼PS 153J
R37	Carbon film 20k	RD¼PS 203J
R38	Carbon film 2.2k	RD¼PS 222J
R39	Carbon film 27k	RD¼PS 273J
R40	Carbon film 22k	RD¼PS 223J
R41	Carbon film 15k	RD¼PS 153J
R42	Carbon film 15k	RD¼PS 153J
R43	Carbon film 82	RD¼PS 820J
R44	Carbon film 82	RD¼PS 820J
R45	Carbon film 2.2k	RD¼PS 222J
R46	Carbon film 3.9k	RD¼PS 392J
R47	Carbon film 150k	RD¼PS 154J
R48	Carbon film 15k	RD¼PS 153J
R49	Carbon film 15k	RD¼PS 153J
R50	Wire wound 150 5W	RT5B 151K
R51	Carbon film 33	RD¼PSF 330J
R52	Carbon film 3.3k	RD¼PS 332J
R53	Carbon film 1k	RD¼PS 102J
R54	Carbon film 150k	RD¼PS 154J
R55	Carbon film 15k	RD¼PS 153J
R56	Carbon film 8.2k	RD¼PS 822J
R57	Carbon film 1k	RD¼PSF 102J
R58	Carbon film 1k	RD¼PSF 102J
F59	Carbon film 68k	RD¼PS 683J
R60	Carbon film 47	RD¼PS 470J
R61	Carbon film 3.3k	RD¼PS 332J
R62	Metal oxide 220 1W	RS1P 221J
R63	Carbon film 1k ½W	RD¼PS 102J

CAPACITOR

Symbol	Description	Part No.
C21	Electrolytic 0.22 10V	CSSA R22M 10
C22	Electrolytic 0.22 10V	CSSA R22M 10
C23	Electrolytic 220 16V	CEA 221P 16
C24	Electrolytic 100 35V	CEA 101P 35
C25	Electrolytic 100 35V	CEA 101P 35
C26	Electrolytic 330 6V	CEA 331P 6
C27	Electrolytic 330 6V	CEA 331P 6
C28	Electrolytic 4.7 35V	CEA 4R7P 35
C29	Electrolytic 220 16V	CEA 221P 16
C30	Electrolytic 100 35V	CEA 101P 35
C31	Electrolytic 100 50V	CEA 101P 50
C32	Ceramic 100p 50V	CCDSL 101K 50
C33	Electrolytic 3.3 50V	CEA 3R3P 50
C34	Electrolytic 100 50V	CEA 101P 50
C35	Electrolytic 100 50V	CEA 101P 50
C36	Electrolytic 220 16V	CEA 221P 16
C37	Electrolytic 220 50V	CEA 221P 50
C38	Electrolytic 220 50V	CEA 221P 50

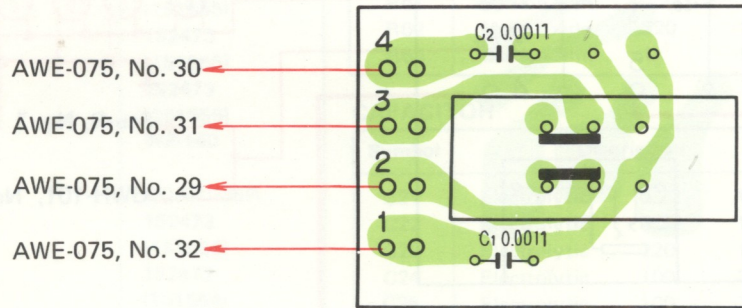
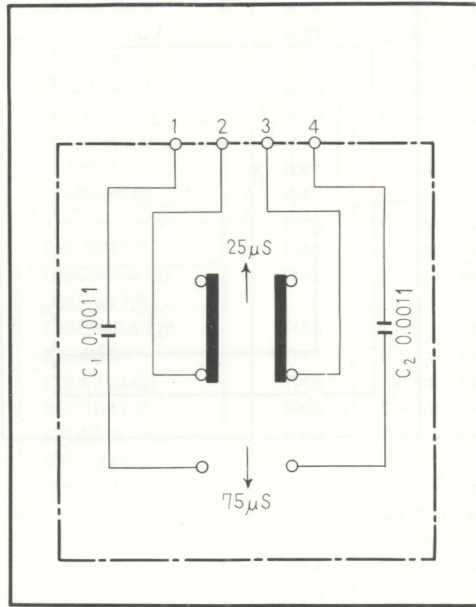
12.8 HEADPHONE ASSEMBLY (AWX-106)



Parts List

Symbol	Description	Part No.
	Headphone jack	AKN-009
R1	Metal oxide film 150 2W	RS2P 151J
R2	Metal oxide film 150 2W	RS2P 151J
R3	Carbon film 27	RD¼PS 270J

12.9 DE-EMPHASIS SWITCH ASSEMBLY (AWX-095)



Parts List CAPACITORS

Symbol	Description			Part No.
C1	Mylar	1100p	50V	CQMA 112J 50
C2	Mylar	1100p	50V	CQMA 112J 50
	Slide switch			ASH-015-0

12.10 POWER SUPPLY ASSEMBLY (AWR-117)

Parts List

SEMICONDUCTORS

Symbol	Description	Part No.
D1	Diode	1S1886 (S1B01-02)
D2	Diode	1S1886 (S1B01-02)
D3	Diode	1S1886 (S1B01-02)
D4	Diode	1S1886 (S1B01-02)
D5	Diode	SR3AM-4
D6	Diode	SR3AM-4
D7	Diode	SR3AM-4
D8	Diode	SR3AM-4

RESISTORS

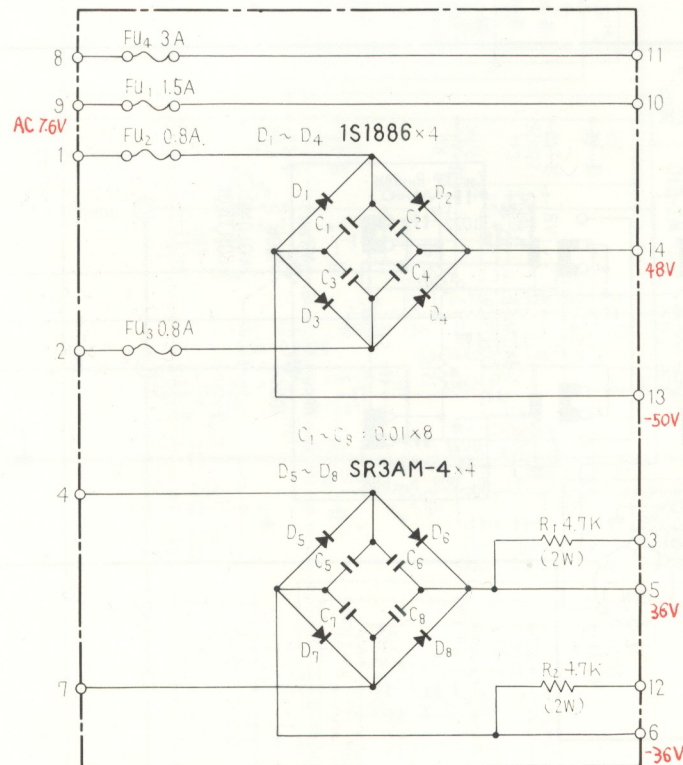
Symbol	Description	Part No.
R1	Metal oxide film 4.7k 2W	RS2P 472K
R2	Metal oxide film 4.7k 2W	RS2P 472K

CAPACITORS

Symbol	Description	Part No.
C1	Ceramic 0.01 150V	ACG-004
C2	Ceramic 0.01 150V	ACG-004
C3	Ceramic 0.01 150V	ACG-004
C4	Ceramic 0.01 150V	ACG-004
C5	Ceramic 0.01 150V	ACG-004
C6	Ceramic 0.01 150V	ACG-004
C7	Ceramic 0.01 150V	ACG-004
C8	Ceramic 0.01 150V	ACG-004

OTHERS

Symbol	Description	Part No.
	Fuse clip	AKR-013
	Fuse clip	AKR-030



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3

A

A

B

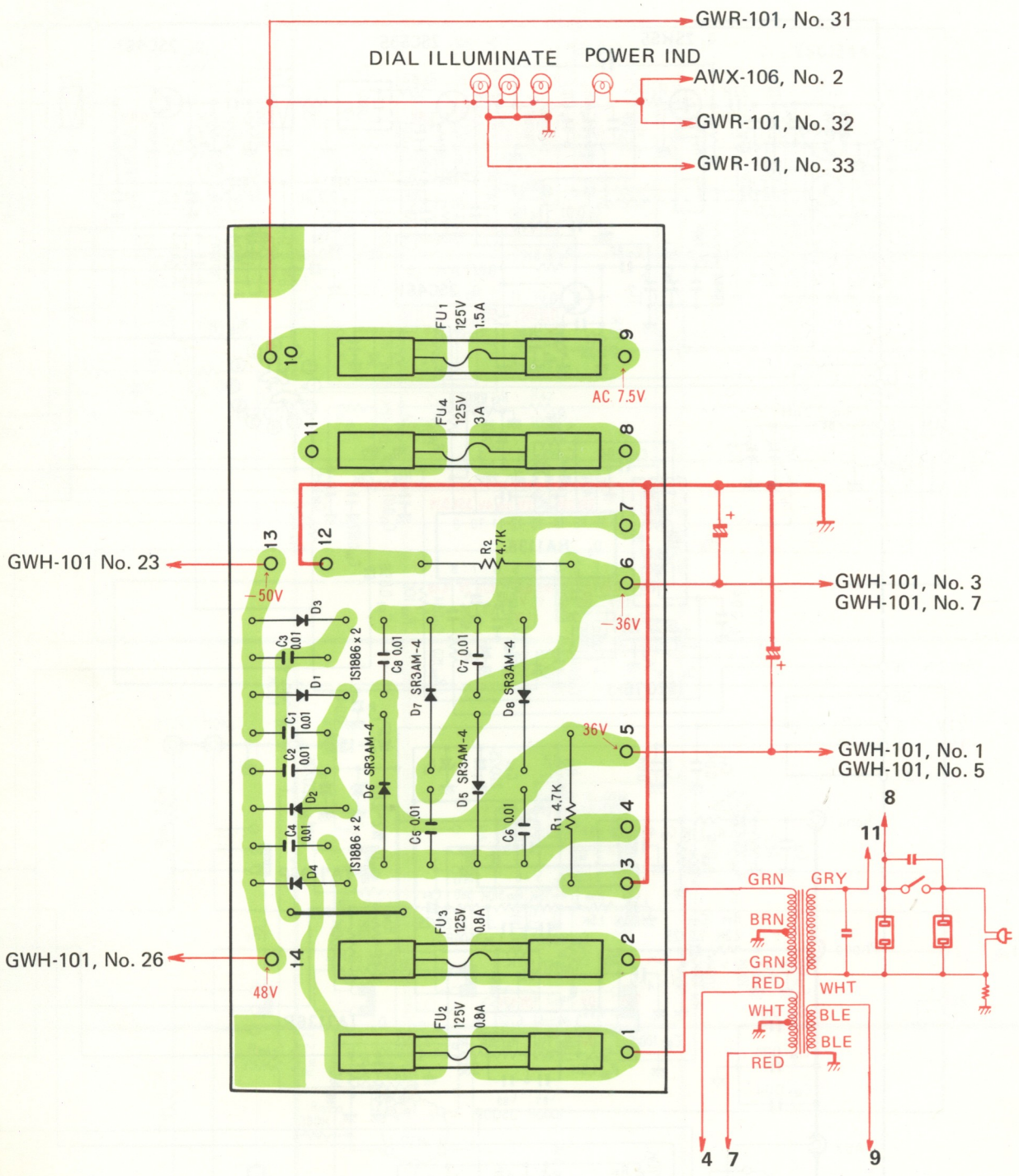
B

C

C

D

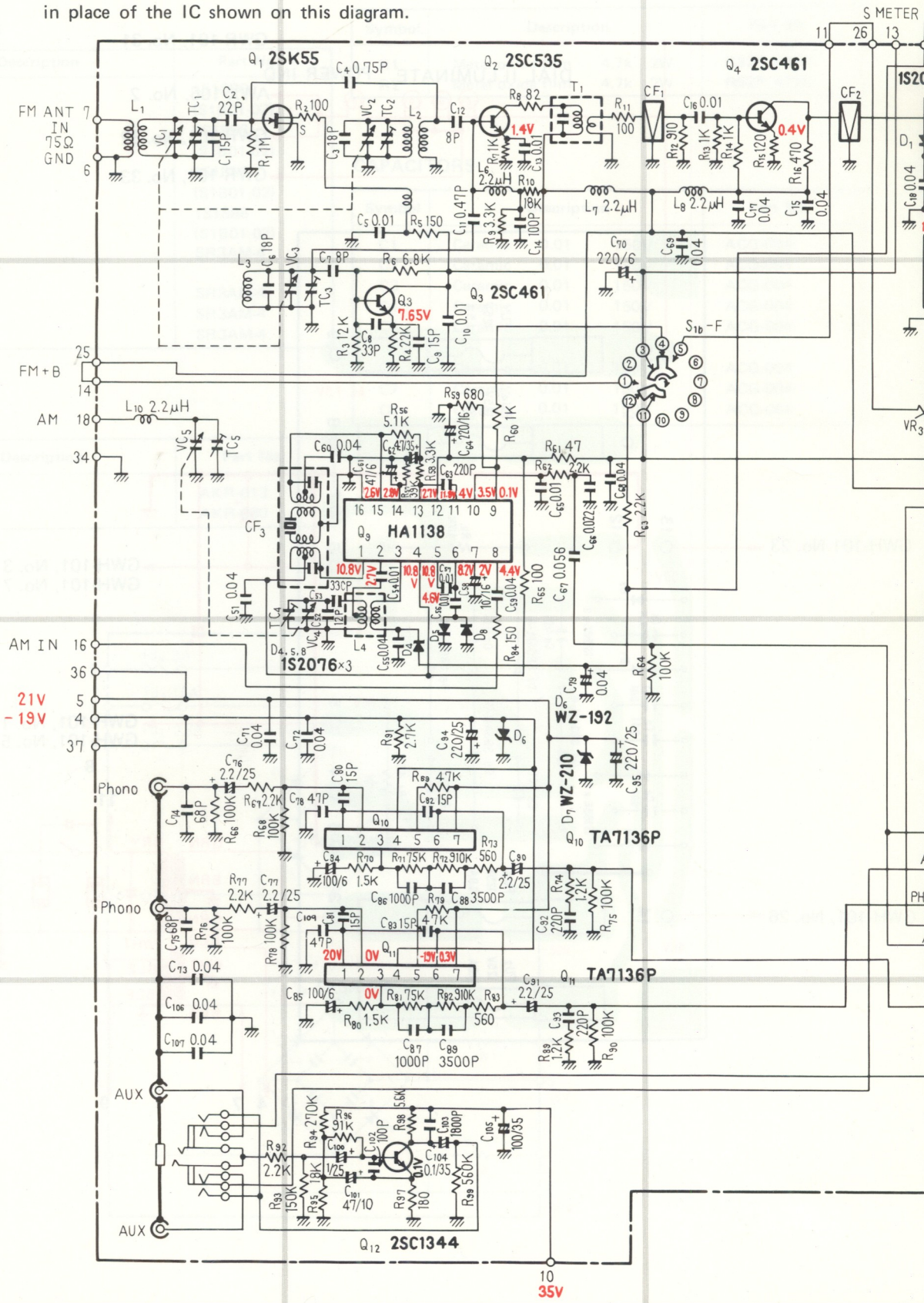
D

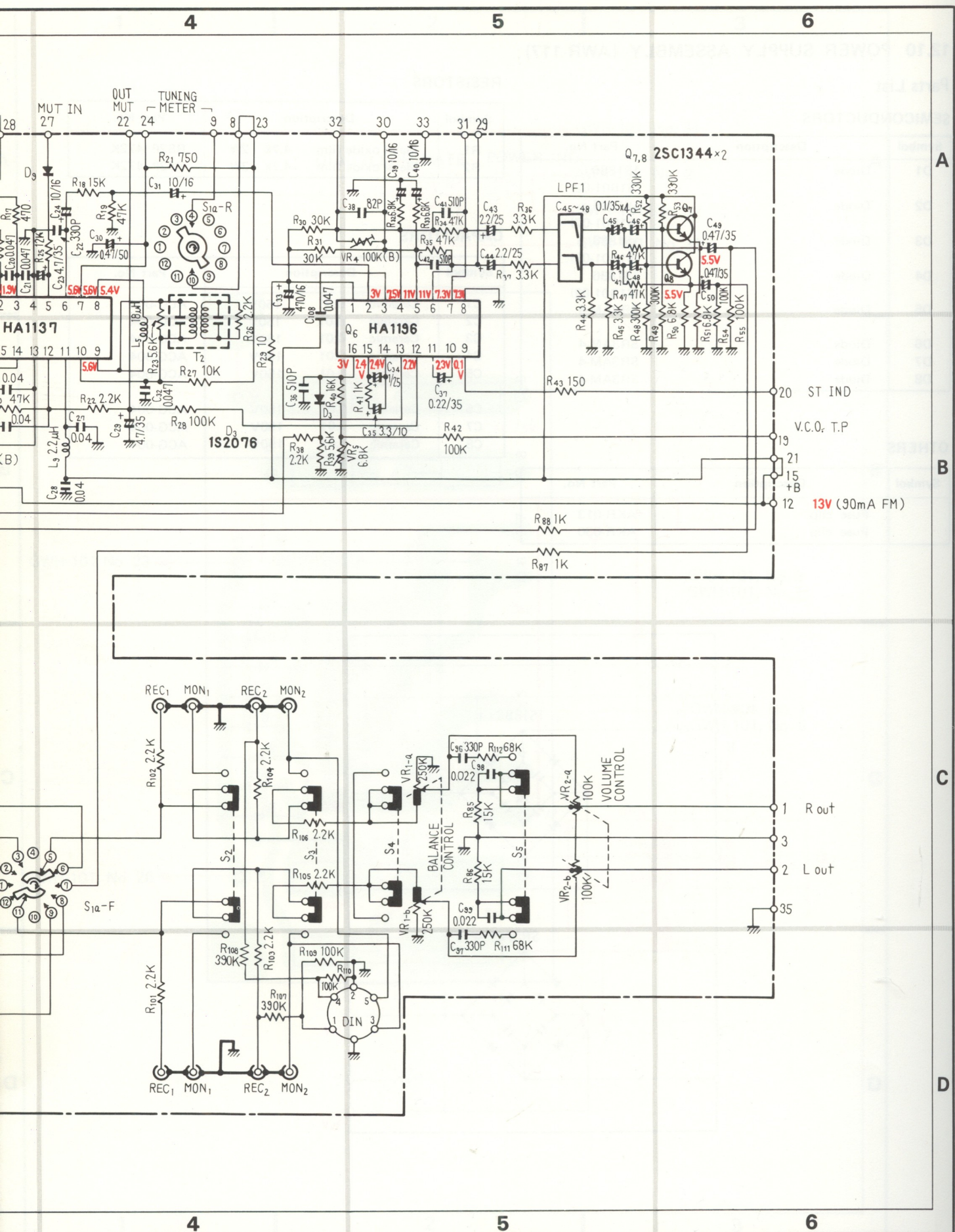


12:11 TUNER AND AF ASSEMBLY (AWE-075)

NOTE: Discrete components may also be used in the equalizer amplifier in place of the IC shown on this diagram.

A
B
C
D





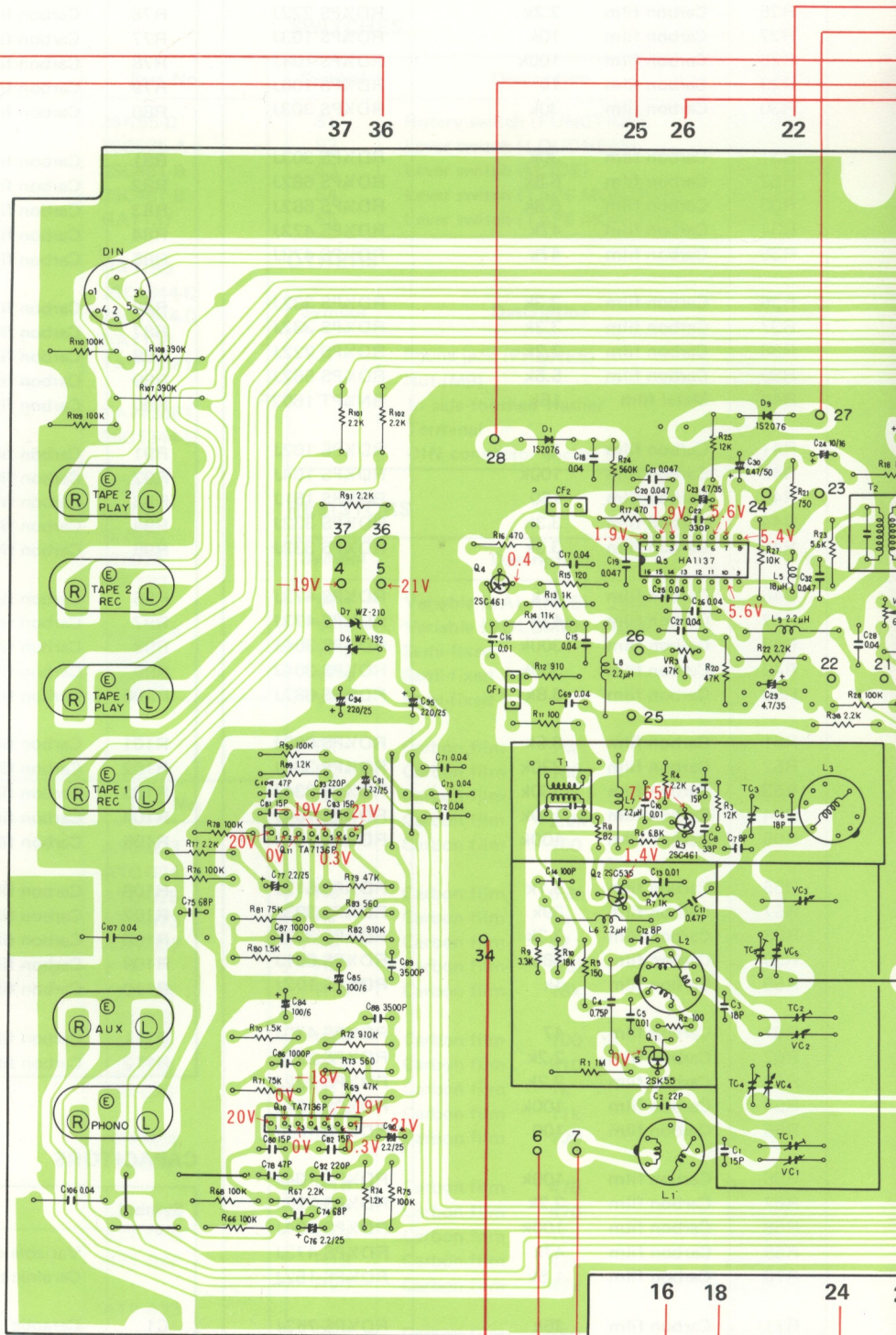
AWG-049, No. 10
AWG-049, No. 9

37 36

25 26

22

GWH-101, No. 11
GWH-101, No. 27



FM 75Ω
UNBALANCE

RM 300Ω
BALANCE

GND

AM

YEL

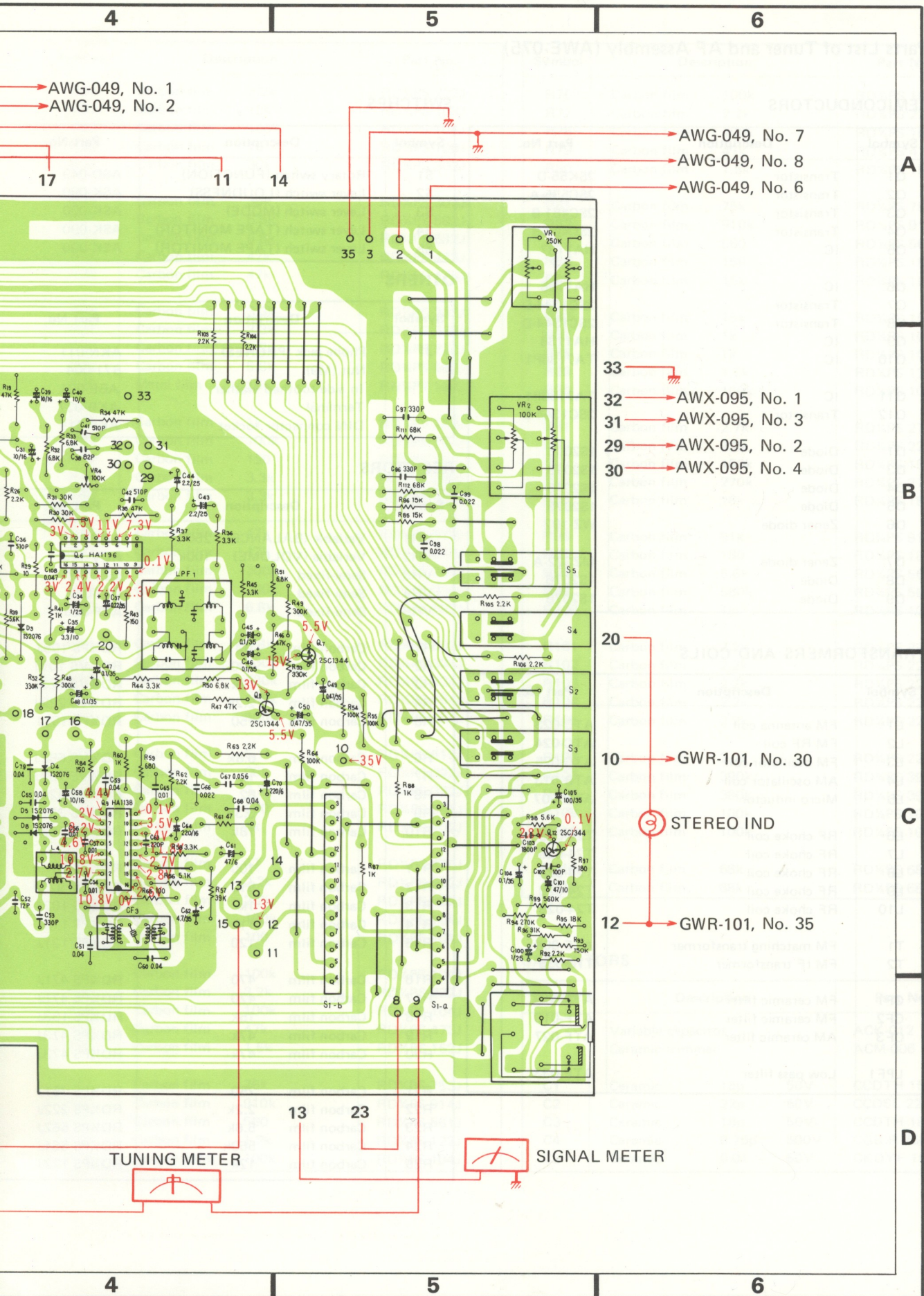
RED

BLK

1

2

3



→ AWG-049, No. 1
→ AWG-049, No. 2

17 11 14

→ AWG-049, No. 7
→ AWG-049, No. 8
→ AWG-049, No. 6

A

33
32 → AWX-095, No. 1
31 → AWX-095, No. 3
29 → AWX-095, No. 2
30 → AWX-095, No. 4

B

20
10 → GWR-101, No. 30
STEREO IND
12 → GWR-101, No. 35

C

TUNING METER

SIGNAL METER

D

4

5

6

Parts List of Tuner and AF Assembly (AWE-075)

SEMICONDUCTORS

Symbol	Description	Part No.
Q1	Transistor	2SK55-D
Q2	Transistor	2SC535-A
Q3	Transistor	2SC461-B
Q4	Transistor	2SC461-B
Q5	IC	HA1137
Q6	IC	HA1196
Q7	Transistor	2SC1344-D
Q8	Transistor	2SC1344-D
Q9	IC	HA1138
Q10	IC	TA7136P1
Q11	IC	TA7136P1
Q12	Transistor	2SC1344-D
D1	Diode	1S2076
D3	Diode	1S2076
D4	Diode	1S2076
D5	Diode	1S2076
D6	Zener diode	WZ-192
D7	Zener diode	MZ322-A
D8	Diode	1S2076
D9	Diode	1S2076

TRANSFORMERS AND COILS

Symbol	Description	Part No.
L1	FM antenna coil	ATC-023
L2	FM RF coil	ATC-024
L3	FM oscillator coil	ATC-025
L4	AM oscillator coil	ATB-013
L5	Micro inductor	ATH-007
L6	RF choke coil	T24-028
L7	RF choke coil	T24-028
L8	RF choke coil	T24-028
L9	RF choke coil	T24-028
L10	RF choke coil	T24-028
T1	FM matching transformer	ATE-008
T2	FM IF transformer	T73-035
CF1	FM ceramic filter	ATF-013
CF2	FM ceramic filter	ATF-013
CF3	AM ceramic filter	ATF-027
LPF1	Low pass filter	ATF-033

SWITCHES

Symbol	Description	Part No.
S1	Rotary switch (FUNCTION)	ASD-049
S2	Lever switch (LOUDNESS)	ASK-090
S3	Lever switch (MODE)	ASK-090
S4	Lever switch (TAPE MONITOR)	ASK-090
S5	Lever switch (TAPE MONITOR)	ASK-090

OTHERS

Symbol	Description	Part No.
J1	Phone jack (PHONES)	AKN-011
	Nut (M9)	B71-004
	In side-toothed washer	ABE-001
	Terminal	AKB-027
	DIN connector socket	AKP-011

RESISTORS

Symbol	Description	Part No.
VR1	Variable (BALANCE) 250k	ACV-135
VR2	Variable (VOLUME) 100k	ACV-179
VR3	Semi-fixed	C92-048
VR4	Semi-fixed	C92-047
VR5	Semi-fixed	ACP-023
R1	Carbon film 1M	RD $\frac{1}{4}$ PS 105J
R2	Carbon film 100	RD $\frac{1}{4}$ VS 101J
R3	Carbon film 12k	RD $\frac{1}{4}$ VS 123J
R4	Carbon film 2.2k	RD $\frac{1}{4}$ VS 222J
R5	Carbon film 150	RD $\frac{1}{4}$ PS 151J
R6	Carbon film 6.8k	RD $\frac{1}{4}$ VS 682J
R7	Carbon film 1k	RD $\frac{1}{4}$ VS 102J
R8	Carbon film 82	RD $\frac{1}{4}$ VS 820J
R9	Carbon film 3.3k	RD $\frac{1}{4}$ VS 332J
R10	Carbon film 18k	RD $\frac{1}{4}$ VS 183J
R11	Carbon film 100	RD $\frac{1}{4}$ PS 101J
R12	Carbon film 910	RD $\frac{1}{4}$ PM 911J
R13	Carbon film 1k	RD $\frac{1}{4}$ PS 102J
R14	Carbon film 11k	RD $\frac{1}{4}$ PS 113J
R15	Carbon film 120	RD $\frac{1}{4}$ PS 121J
R16	Carbon film 470	RD $\frac{1}{4}$ PS 471J
R17	Carbon film 470	RD $\frac{1}{4}$ PS 471J
R18	Carbon film 15k	RD $\frac{1}{4}$ PS 153J
R19	Carbon film 47k	RD $\frac{1}{4}$ PS 473J
R20	Carbon film 47k	RD $\frac{1}{4}$ PS 473J
R21	Carbon film 750	RD $\frac{1}{4}$ PS 751J
R22	Carbon film 2.2k	RD $\frac{1}{4}$ PS 222J
R23	Carbon film 5.6k	RD $\frac{1}{4}$ PS 562J
R24	Carbon film 560k	RD $\frac{1}{4}$ PS 564J
R25	Carbon film 12k	RD $\frac{1}{4}$ PS 123J

Symbol	Description	Part No.
R26	Carbon film 2.2k	RD½PS 222J
R27	Carbon film 10k	RD½PS 103J
R28	Carbon film 100k	RD½PS 104J
R29	Carbon film 10	RD½PS 100J
R30	Carbon film 30k	RD½PS 303J
R31	Carbon film 30k	RD½PS 303J
R32	Carbon film 6.8k	RD½PS 682J
R33	Carbon film 6.8k	RD½PS 682J
R34	Carbon film 47k	RD½PS 473J
R35	Carbon film 47k	RD½PS 473J
R36	Carbon film 3.3k	RD½PS 332J
R37	Carbon film 3.3k	RD½PS 332J
R38	Carbon film 2.2k	RD½PS 222J
R39	Carbon film 5.6k	RD½PS 562J
R40	Metal film 16k	RN½PT 1602F
R41	Carbon film 1k	RD½PS 102J
R42	Carbon film 100k	RD½PS 104J
R43	Carbon film 150	RD½PS 151J
R44	Carbon film 3.3k	RD½PS 332J
R45	Carbon film 3.3k	RD½PS 332J
R46	Carbon film 47k	RD½PS 473J
R47	Carbon film 47k	RD½PS 473J
R48	Carbon film 300k	RD½PS 304J
R49	Carbon film 300k	RD½PS 304J
R50	Carbon film 6.8k	RD½PS 682J
R51	Carbon film 6.8k	RD½PS 682J
R52	Carbon film 330k	RD½PS 334J
R53	Carbon film 330k	RD½PS 334J
R54	Carbon film 100k	RD½PS 104J
R55	Carbon film 100k	RD½PS 104J
R56	Carbon film 5.1k	RD½PS 512J
R57	Carbon film 39k	RD½PS 393J
R58	Carbon film 3.3k	RD½PS 332J
R59	Carbon film 680	RD½PS 681J
R60	Carbon film 1k	RD½PS 102J
R61	Carbon film 47	RD½PS 470J
R62	Carbon film 2.2k	RD½PS 222J
R63	Carbon film 2.2k	RD½PS 222J
R64	Carbon film 100k	RD½PS 104J
R65	Carbon film 100	RD½PS 101J
R66	Carbon film 100k	RD½PS 104J
R67	Carbon film 2.2k	RD½PS 222J
R68	Carbon film 100k	RD½PS 104J
R69	Carbon film 47k	RD½PS 473J
R70	Carbon film 1.5k	RD½PS 152J
R71	Carbon film 75k	RD½PS 753J
R72	Carbon film 910k	RD½PS 914J
R73	Carbon film 560	RD½PS 561J
R74	Carbon film 1.2k	RD½PS 122J
R75	Carbon film 100k	RD½PS 104J

Symbol	Description	Part No.
R76	Carbon film 100k	RD½PS 104J
R77	Carbon film 2.2k	RD½PS 222J
R78	Carbon film 100k	RD½PS 104J
R79	Carbon film 47k	RD½PS 473J
R80	Carbon film 1.5k	RD½PS 152J
R81	Carbon film 75k	RD½PS 753J
R82	Carbon film 910k	RD½PS 914J
R83	Carbon film 560	RD½PS 561J
R84	Carbon film 150	RD½PS 151J
R85	Carbon film 15k	RD½PS 153J
R86	Carbon film 15k	RD½PS 153J
R87	Carbon film 1k	RD½PS 102J
R88	Carbon film 1k	RD½PS 102J
R89	Carbon film 1.2k	RD½PS 122J
R90	Carbon film 100k	RD½PS 104J
R91	Carbon film 2.7k	RD½PS 272J
R92	Carbon film 2.2k	RD½PS 222J
R93	Carbon film 150k	RD½PS 154J
R94	Carbon film 270k	RD½PS 274J
R95	Carbon film 18k	RD½PS 183J
R96	Carbon film 91k	RD½PS 913J
R97	Carbon film 180	RD½PS 181J
R98	Carbon film 5.6k	RD½PS 562J
R99	Carbon film 560k	RD½PS 564J
R100	Carbon film 1k	RD½PS 102J
R101	Carbon film 2.2k	RD½PS 222J
R102	Carbon film 2.2k	RD½PS 222J
R103	Carbon film 2.2k	RD½PS 222J
R104	Carbon film 2.2k	RD½PS 222J
R105	Carbon film 2.2k	RD½PS 222J
R106	Carbon film 2.2k	RD½PS 222J
R107	Carbon film 390k	RD½PS 394J
R108	Carbon film 390k	RD½PS 394J
R109	Carbon film 100k	RD½PS 104J
R110	Carbon film 100k	RD½PS 104J
R111	Carbon film 68k	RD½PS 683J
R112	Carbon film 68k	RD½PS 683J

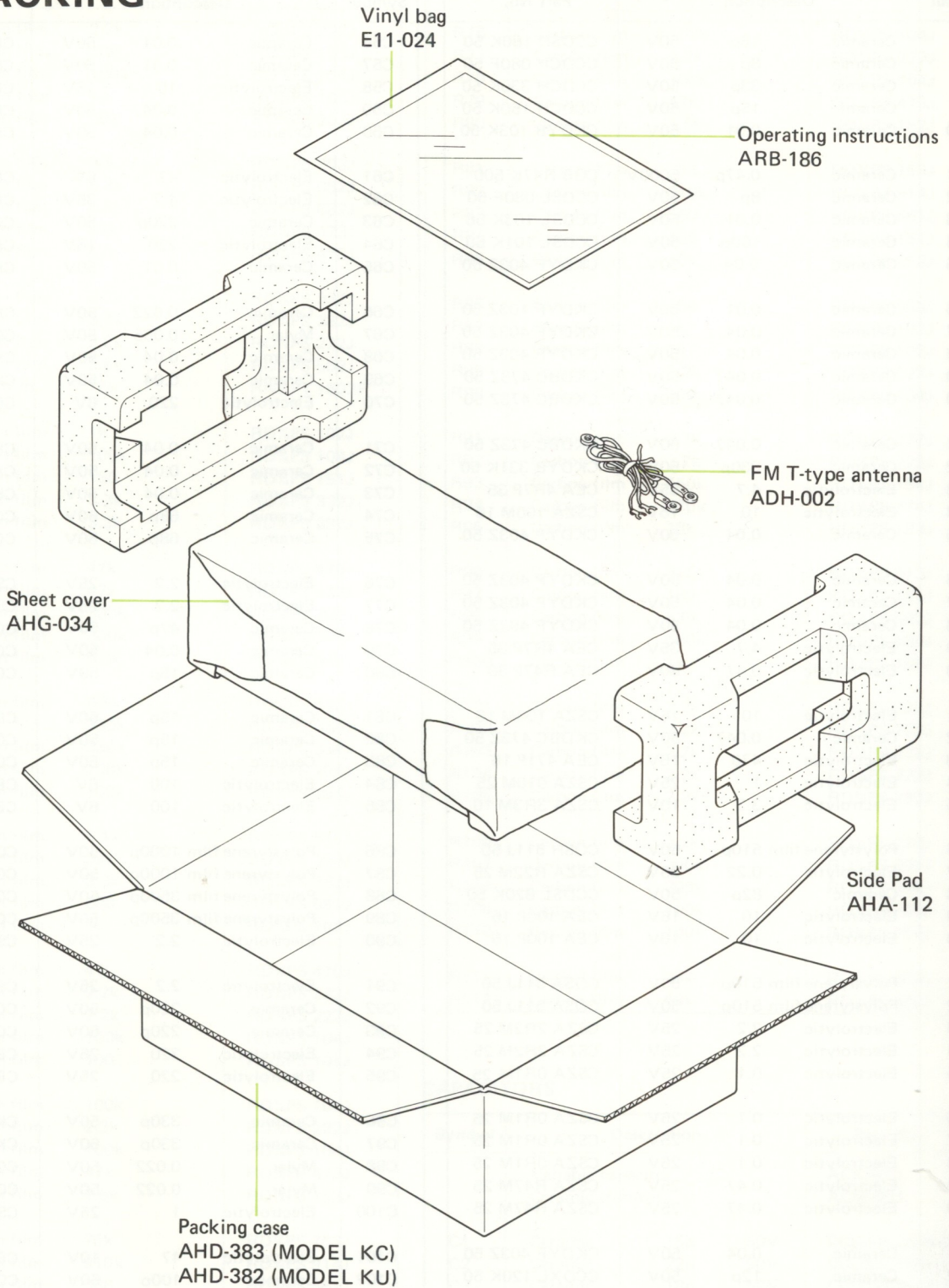
CAPACITORS

Symbol	Description	Part No.
	Variable capacitor	ACK-012
	Ceramic trimmer	ACM-006
C1	Ceramic 15p 50V	CCDTH 150K 50
C2	Ceramic 22p 50V	CCDSL 220K 50
C3	Ceramic 18p 50V	CCDTH 180K 50
C4	Ceramic 0.75p 500V	CGB R 75K 500
C5	Ceramic 0.01 50V	CKDYF 103Z 50

Symbol	Description	Part No.
C6	Ceramic 18p 50V	CCDSH 180K 50
C7	Ceramic 8p 50V	CCDCH 080F 50
C8	Ceramic 33p 50V	CCDCH 330K 50
C9	Ceramic 15p 50V	CCDCH 150K 50
C10	Ceramic 0.01 50V	CKDYB 103K 50
C11	Ceramic 0.47p 5000V	CGB R47K 500
C12	Ceramic 8p 50V	CCDSL 080F 50
C13	Ceramic 0.01 50V	CCDSL 103K 50
C14	Ceramic 100p 50V	CCDSL 101K 50
C15	Ceramic 0.04 50V	CKDYF 403Z 50
C16	Ceramic 0.01 50V	CKDYF 103Z 50
C17	Ceramic 0.04 50V	CKDYF 403Z 50
C18	Ceramic 0.04 50V	CKDYF 403Z 50
C19	Ceramic 0.047 50V	CKDBC 473Z 50
C20	Ceramic 0.047 50V	CKDBC 473Z 50
C21	Ceramic 0.047 50V	CKDBC 473Z 50
C22	Ceramic 330p 50V	CKDYB 331K 50
C23	Electrolytic 4.7 35V	CEA 4R7P 35
C24	Electrolytic 10 16V	CSZA 100M 16
C25	Ceramic 0.04 50V	CKDYF 403Z 50
C26	Ceramic 0.04 50V	CKDYF 403Z 50
C27	Ceramic 0.04 50V	CKDYF 403Z 50
C28	Ceramic 0.04 50V	CKDYF 403Z 50
C29	Electrolytic 4.7 35V	CEA 4R7P 35
C30	Electrolytic 0.47 50V	CEA R47P 50
C31	Electrolytic 10 16V	CSZA 100M 16
C32	Ceramic 0.047 50V	CKDBC 473Z 50
C33	Electrolytic 470 16V	CEA 471P 16
C34	Electrolytic 1 25V	CSZA 010M 25
C35	Electrolytic 3.3 10V	CSZA 3R3M 10
C36	Polystyrene film 510p 50V	CQSH 511J 50
C37	Electrolytic 0.22 25V	CSZA R22M 25
C38	Ceramic 82p 50V	CCDSL 820K 50
C39	Electrolytic 10 16V	CEA 100P 16
C40	Electrolytic 10 16V	CEA 100P 16
C41	Polystyrene film 510p 50V	CQSA 511J 50
C42	Polystyrene film 510p 50V	CQSA 511J 50
C43	Electrolytic 2.2 25V	CSZA 2R2M 25
C44	Electrolytic 2.2 25V	CSZA 2R2M 25
C45	Electrolytic 0.1 25V	CSZA 0R1M 25
C46	Electrolytic 0.1 25V	CSZA 0R1M 25
C47	Electrolytic 0.1 25V	CSZA 0R1M 25
C48	Electrolytic 0.1 25V	CSZA 0R1M 25
C49	Electrolytic 0.47 25V	CSZA R47M 25
C50	Electrolytic 0.47 25V	CSZA R47M 25
C51	Ceramic 0.04 50V	CKDYF 403Z 50
C52	Ceramic 12p 50V	CCDXL 120K 50
C53	Polystyrene film 330p 50V	CQSA 331J 50
C54	Ceramic 0.01 50V	CKDYF 103Z 50
C55	Ceramic 0.04 50V	CKDYF 403Z 50

Symbol	Description	Part No.
C56	Ceramic 0.01 50V	CKDYF 103Z 50
C57	Ceramic 0.01 50V	CKDYF 103Z 50
C58	Electrolytic 10 16V	CEA 100P 16
C59	Ceramic 0.04 50V	CKDYF 403Z 50
C60	Ceramic 0.04 50V	CKDYF 403Z 50
C61	Electrolytic 47 6V	CEA 470P 6
C62	Electrolytic 4.7 35V	CEA 4R7P 35
C63	Ceramic 220p 50V	CCDSL 221K 50
C64	Electrolytic 220 16V	CEA 221P 16
C65	Ceramic 0.01 50V	CKDYF 103Z 50
C66	Ceramic 0.022 50V	CKDYF 223Z 50
C67	Mylar 0.056 50V	CQMA 563K 50
C68	Ceramic 0.04 50V	CKDYF 403Z 50
C69	Ceramic 0.04 50V	CKDYF 403Z 50
C70	Electrolytic 220 6V	CEA 221P 6
C71	Ceramic 0.04 50V	CKDYF 403Z 50
C72	Ceramic 0.04 50V	CKDYF 403Z 50
C73	Ceramic 0.04 50V	CKDYF 403Z 50
C74	Ceramic 68p 50V	CCDSL 680K 50
C75	Ceramic 68p 50V	CCDSL 680K 50
C76	Electrolytic 2.2 25V	CSZA 2R2M 25
C77	Electrolytic 2.2 25V	CSZA 2R2M 25
C78	Ceramic 47p 50V	CCDSL 470K 50
C79	Ceramic 0.04 50V	CCDSL 403K 50
C80	Ceramic 15p 50V	CCDSL 150K 50
C81	Ceramic 15p 50V	CCDSL 150K 50
C82	Ceramic 15p 50V	CCDSL 150K 50
C83	Ceramic 15p 50V	CCDSL 150K 50
C84	Electrolytic 100 6V	CEA 101P 6
C85	Electrolytic 100 6V	CEA 101P 6
C86	Polystyrene film 1000p 50V	CQSA 102G 50
C87	Polystyrene film 1000p 50V	CQSA 102G 50
C88	Polystyrene film 3500p 50V	CQSA 352G 50
C89	Polystyrene film 3500p 50V	CQSA 352G 50
C90	Electrolytic 2.2 25V	CSZA 2R2M 25
C91	Electrolytic 2.2 25V	CSZA 2R2M 25
C92	Ceramic 220p 50V	CCDSL 221K 50
C93	Ceramic 220p 50V	CCDSL 221K 50
C94	Electrolytic 220 25V	CEA 221P 25
C95	Electrolytic 220 25V	CEA 221P 25
C96	Ceramic 330p 50V	CKDYB 331K 50
C97	Ceramic 330p 50V	CKDYB 331K 50
C98	Mylar 0.022 50V	CQMA 223K 50
C99	Mylar 0.022 50V	CQMA 223K 50
C100	Electrolytic 1 25V	CSZA 010M 25
C101	Electrolytic 47 10V	CEA 470P 10
C102	Ceramic 100p 50V	CCDSL 101K 50
C103	Ceramic 1800p 50V	CKDYB 182K 50
C104	Electrolytic 0.1 35V	CSZA 0R1M 35
C105	Electrolytic 100 35V	CEA 101P 35
C106	Ceramic 0.04 50V	CKDYF 403Z 50
C107	Ceramic 0.04 50V	CKDYF 403Z 50
C108	Mylar 0.047 50V	CQMA 473K 50
C109	Ceramic 47p 50V	CCDSL 470K 50

13. PACKING



OTHERS

Symbol	Description	Part No.
	Vinyl bag (power cord cover)	AHG-023
	Vinyl cover (ferrite bar-antenna cover)	AHG-040

PIONEER ELECTRONIC CORPORATION

4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan

U.S. PIONEER ELECTRONICS CORPORATION

75 Oxford Drive, Moonachie, New Jersey 07074, U.S.A.

PIONEER ELECTRONIC (EUROPE) N.V.

Luithagen-Haven 9, 2030 Antwerp, Belgium

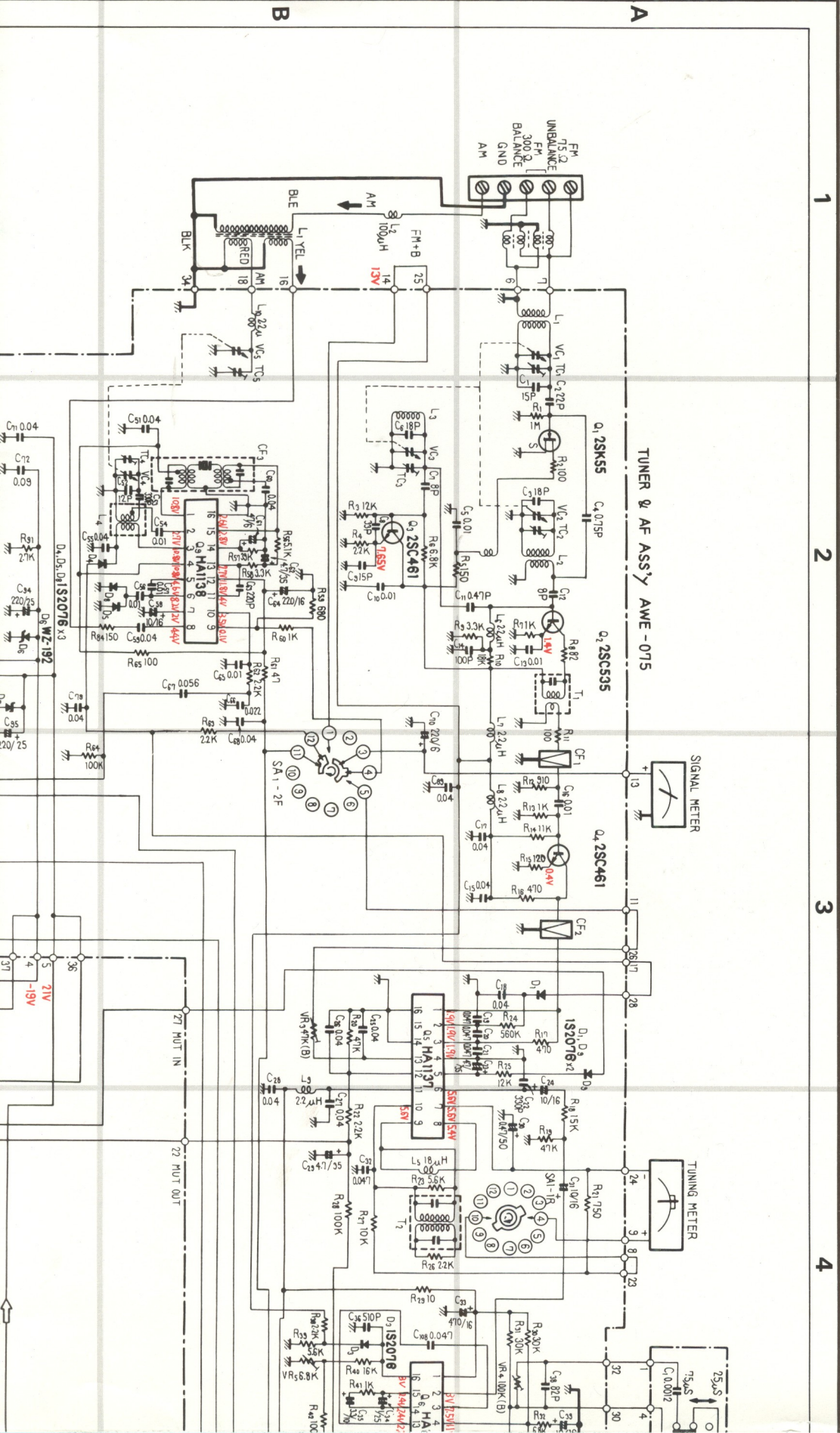
PIONEER ELECTRONICS AUSTRALIA PTY. LTD.

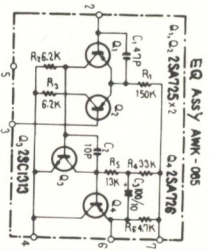
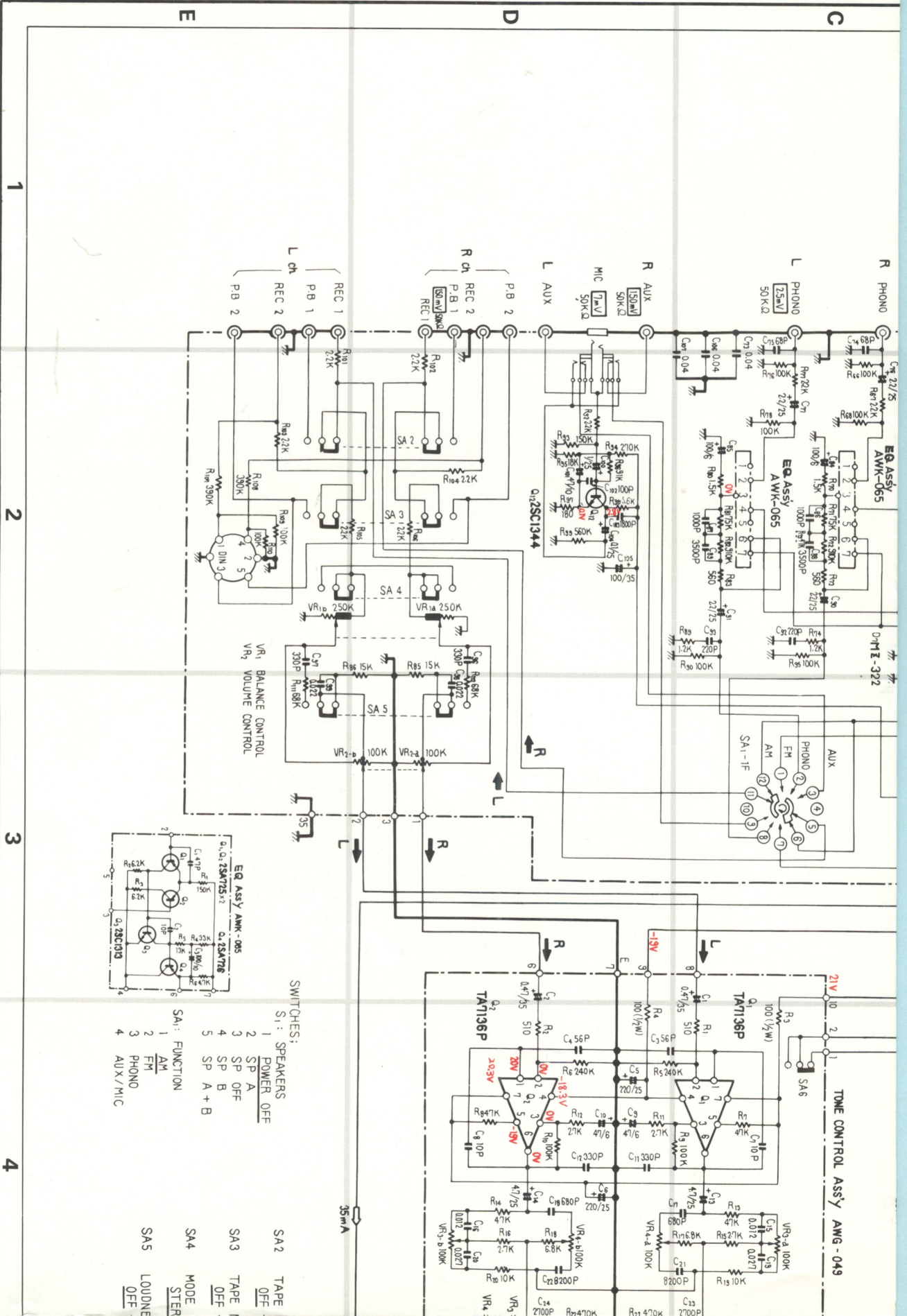
178-184 Boundary Road, Braeside, Victoria 3195, Australia

AM/FM STEREO RECEIVER

SX-650

KU
KC

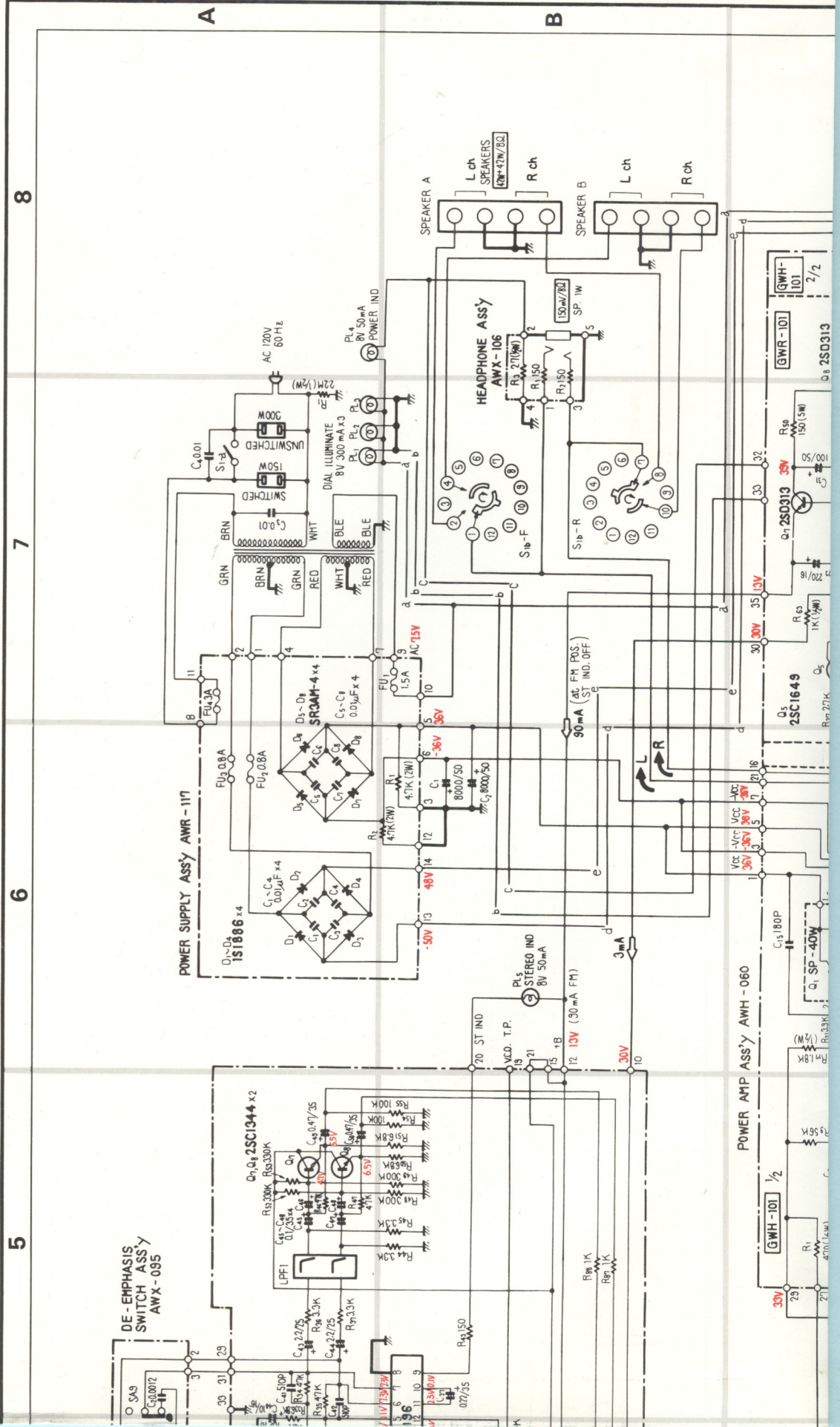


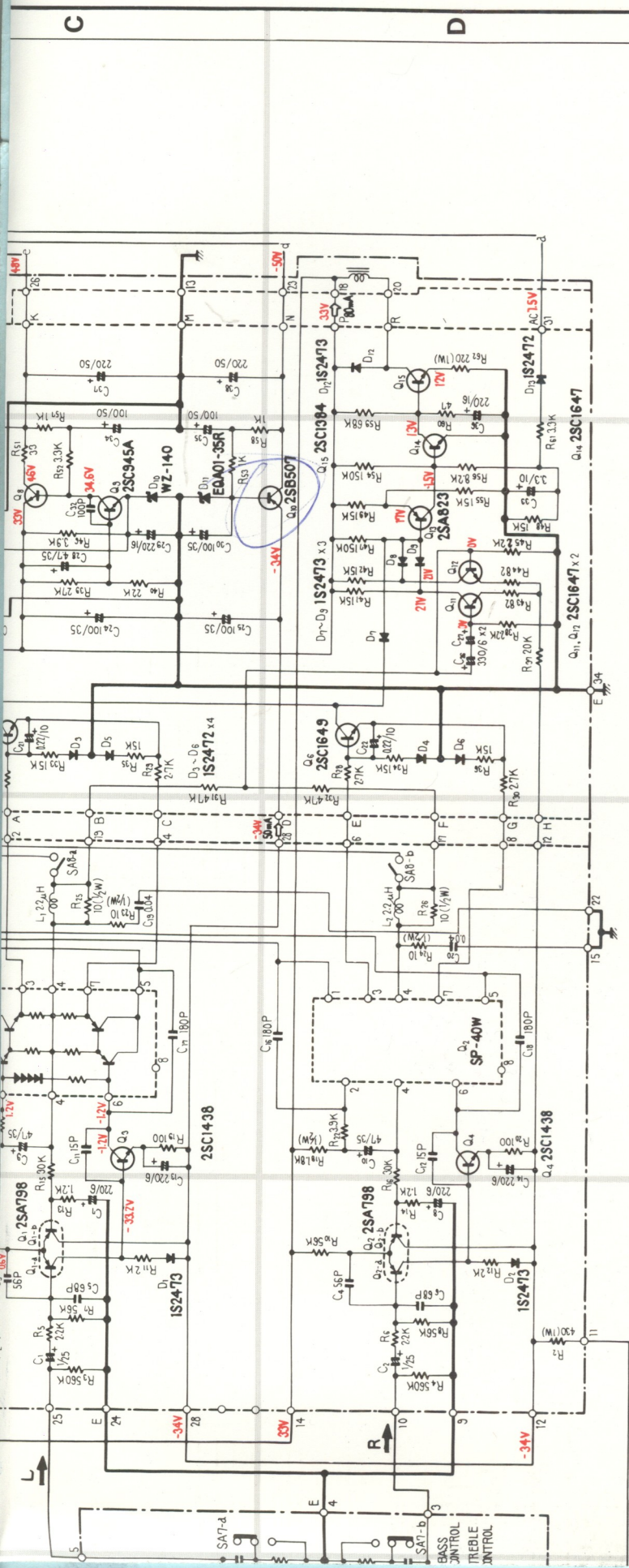


- SWITCHES:
- S1: SPEAKERS
 - S2: TAPE
 - S3: TAP
 - S4: MODE
 - S5: LOUDNE
- SA1: FUNCTION
- 1 AM
 - 2 FM
 - 3 PHONO
 - 4 AUX/MIC
- SA2: TAPE OFF
- SA3: TAP OFF

SA4: MODE STER

SA5: LOUDNE OFF





MONITOR 1
ON — OFF

MONITOR 2
ON — OFF

EO — MONO

SS — ON

SA6 FM MUTING
ON — OFF

SAT HIGH FILTER
OFF — ON

SA8 RELAY
OFF — ON

SA9 DE-EMPHASIS
75μS — 25μS

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

CAPACITORS:
IN μF UNLESS OTHERWISE NOTED P : pF

mV : SIGNAL VOLTAGE NECESSARY FOR
OBTAINING 42W x 2 / 8Ω OUTPUT
POWER (1K Hz)

mA : DC CURRENT AT NO INPUT SIGNAL

V : DC VOLTAGE AT NO INPUT SIGNAL

5

6

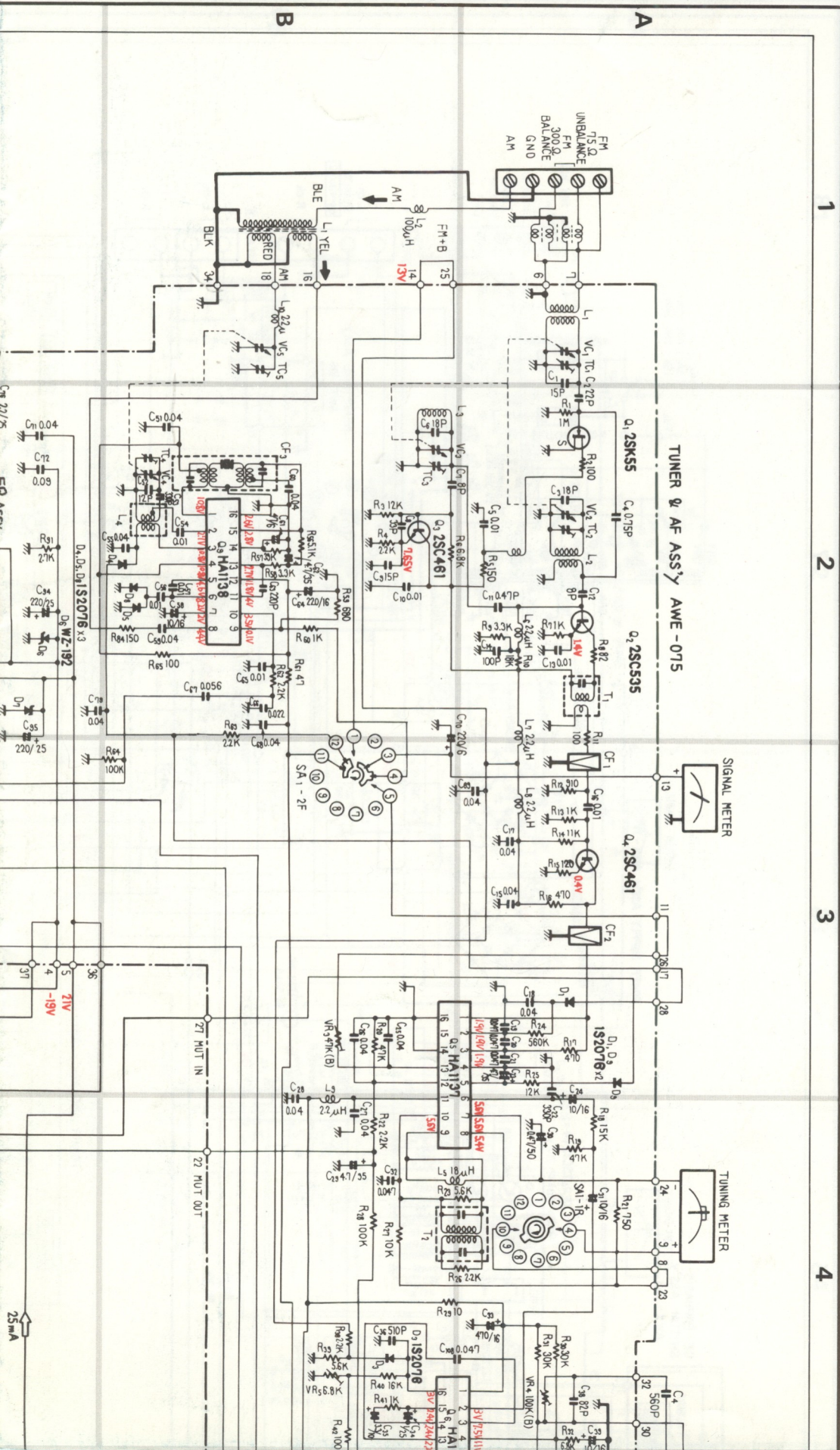
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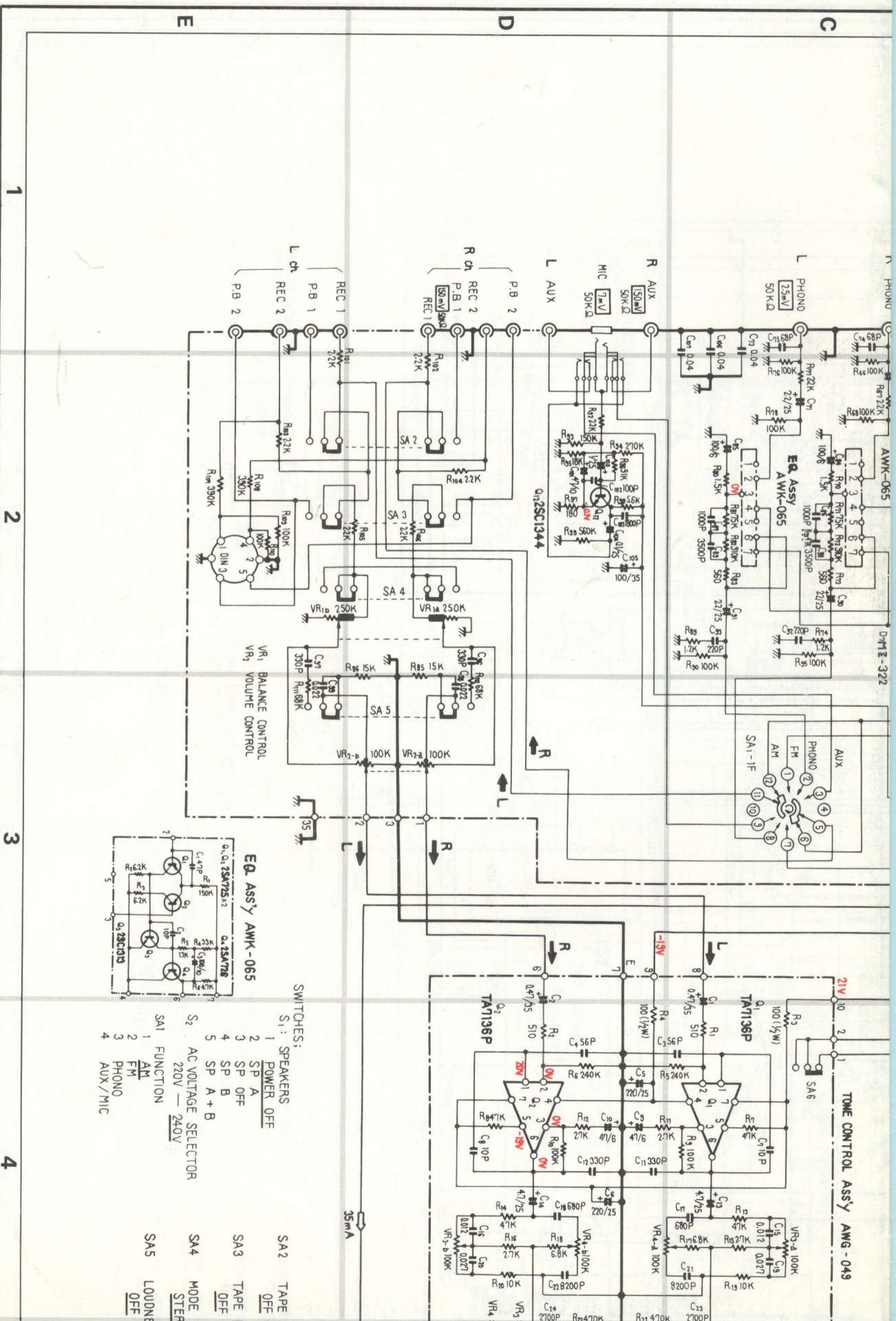
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AM/FM STEREO RECEIVER

SX-650

HG





- SWITCHES:**
- S1: SPEAKERS
 - S2: TAPE
 - S3: TAPE
 - S4: MODE
 - S5: LOUDNE
- FUNCTIONS:**
- 1 POWER OFF
 - 2 SP A
 - 3 SP OFF
 - 4 SP B
 - 5 SP A + B
- AC VOLTAGE SELECTOR**
- 220V
 - 240V
- FUNCTIONS:**
- 1 AM
 - 2 FM
 - 3 PHONO
 - 4 AUX/MIC

8

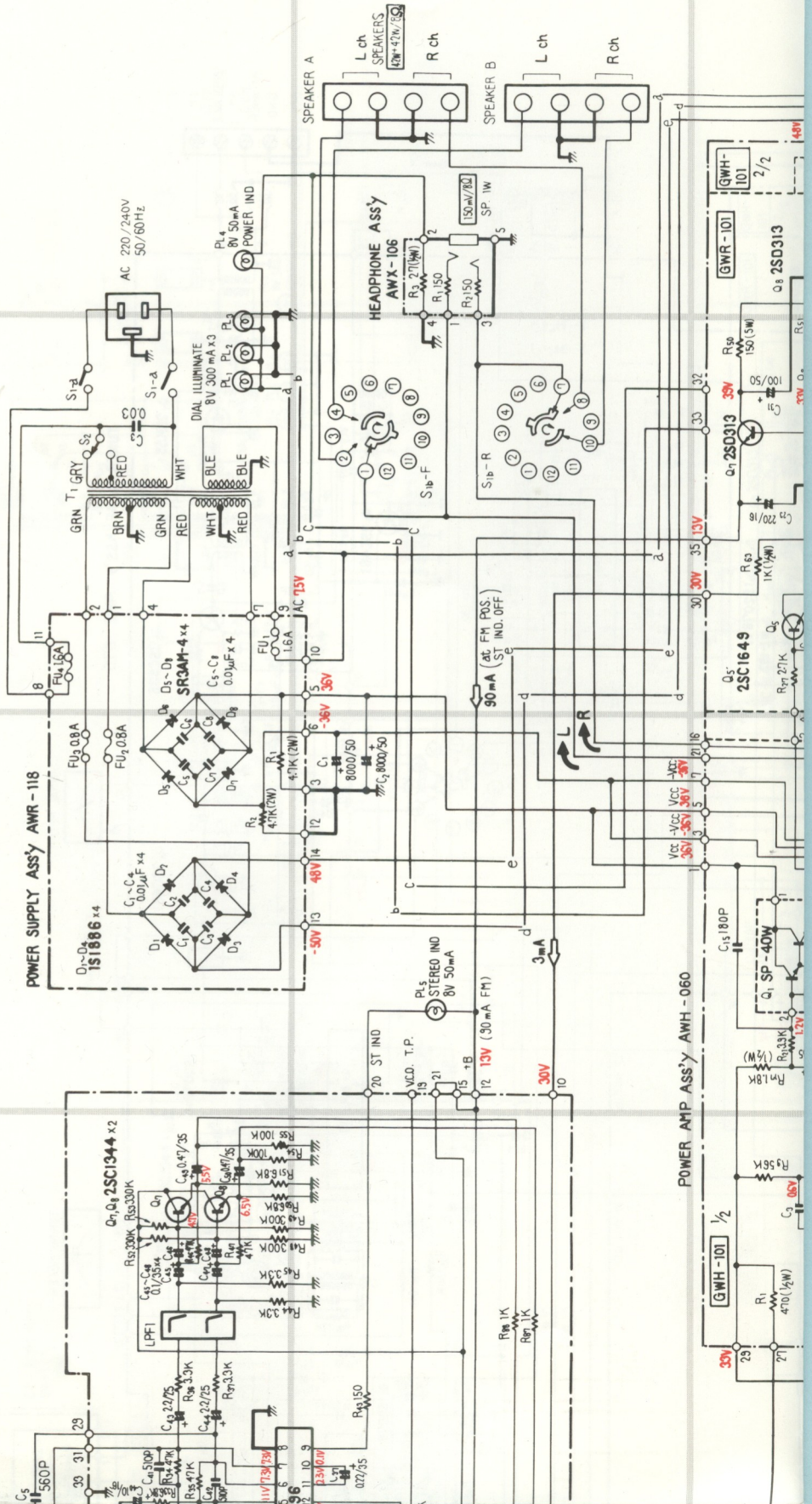
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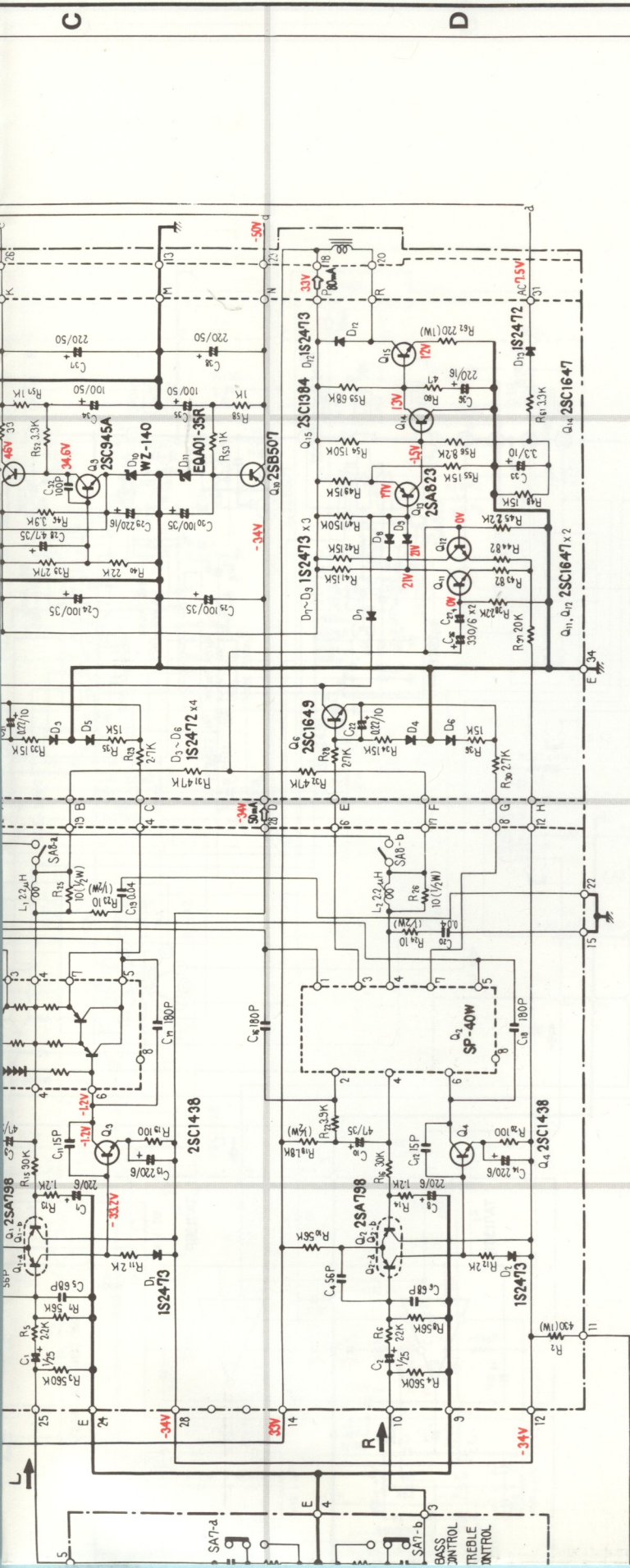
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5

A

B





mV : SIGNAL VOLTAGE NECESSARY FOR
 OBTAINING 42W x 2 / 8Ω OUTPUT
 POWER (1K Hz)

mA : DC CURRENT AT NO INPUT SIGNAL
 V : DC VOLTAGE AT NO INPUT SIGNAL

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

CAPACITORS:
 IN μF UNLESS OTHERWISE NOTED P : pF

- MONITOR 1 — ON
- MONITOR 2 — ON
- EO — MONO
- SS — ON
- SA6 FM MUTING ON — OFF
- SA7 HIGH FILTER OFF — ON
- SA8 RELAY OFF — ON