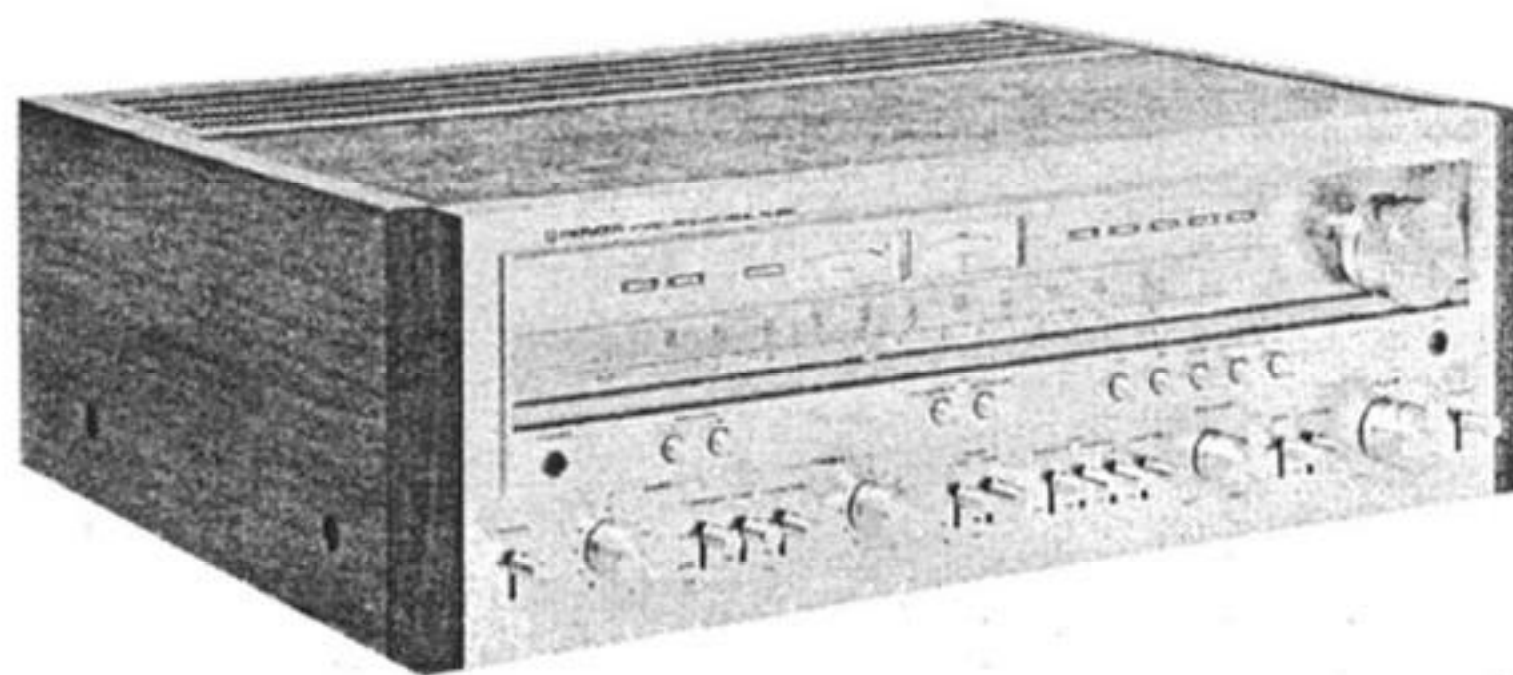


AM/FM STEREO RECEIVER
SX-850
KCU

<ART-155-0>



PIONEER®

SX-850 FEATURES

Latest Technology Front End

Dual Gate MOS FET (field-effect transistor) is employed in the FM front end, together with a 4-ganged variable tuning capacitor. Together with carefully selected circuit components, this provides outstanding performance in terms of sensitivity, image rejection and spurious rejection. In all of its specifications, the SX-850 FM tuner section compares favorably with the most respected separate component type tuners.

High Selectivity Stages

Excellent capture ratio, stable operation and sharp selectivity are assured by three ceramic filters in the IF stages. The filters never need realignment and contribute to high reliability against aging and ambient temperature variations.

Quadrature Detector and PLL MPX Demodulator

A balanced bridge differential amplifier performs quadrature detection of the FM signal. Linearity is assured throughout the frequency band, while distortion becomes minimized. Clear and stable separation is provided by the PLL (phase locked loop) multiplex circuit design.

Reduced Distortion AM Circuit

Careful engineering is also evident in the AM tuner circuit. Automatic gain control in the RF and IF stages, together with a 3-gang variable capacitor and IC circuitry deliver improved image ratio, selectivity and frequency response, plus reduced distortion.

Heavy Duty Split Power Supply

The dual positive and negative power supply incorporates extra large 15,000 μ F electrolytic capacitors and possesses plenty of reserve power. Protection and muting functions are included to both safeguard equipment and eliminate power on-off noise.

Precision RIAA Phono Equalizer

Deviation from the RIAA standard is performed within ± 0.3 dB, while the ability of the phono inputs to accept relatively strong signal levels without distortion (200 mV rms) results in a wide dynamic range.

High Reliability Protection Circuit

In the event of malfunction, valuable semiconductors and speaker are protected by a relay electronic protection circuit that detects DC output voltage or impedance overload. This circuit also functions to reduce noise during ON-OFF operation of the power supply.

Versatile Tone Controls Plus Turn-over Selectors

Active NFB type bass and treble control circuits provide precise and stable control without affecting the mid-range. Turnover frequency selector switches determine the points at which the tone controls take effect, and a convenient tone on-off switch is also employed to allow a flat frequency response to be obtained at any time regardless of tone control and turnover switch settings. This is useful for checking the effects of the phono cartridge, speakers, listening room acoustics, etc. on the spaciousness of the sound.

Direct Coupled Power Amplifier

The power amplifier of the SX-850, is a direct-coupled, pure complementary parallel push pull circuit, which uses a differential amplifier at first stage. SX-850 delivers

Continuous power output of 65 watts* per channel, min. RMS, at 8 ohms or 85 watts* per channel at 4 ohms from 20 Hertz to 20,000 Hertz with no more than 0.1% total harmonic distortion.

Plenty of power is available for rich and stable stereo reproduction.

Important Additional Features

Two tape monitor circuits allow two stereo tape decks to be used for recording, playback and tape duplication.

Microphone input on the front panel adds to versatility and enjoyment.

The audio muting switch can be used to temporarily reduce the volume by 20dB when changing records or tapes or for other reasons, without continually adjusting the volume control.

Indicator lamps provide clear indication of operating mode.

Tasteful Styling Complements High Performance

The exquisitely designed aluminum front panel is trimmed with solid walnut. Control functions and layout also add to both versatility and top grade components appearance. In combination with high quality source components and speaker systems, a magnificent stereophonic music system is composed for providing rich audio enjoyment.

** Measured pursuant to Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.*

1. SPECIFICATIONS

Semiconductors

FETs	3
ICs	3
Transistors	56
Diodes	36

Power Amplifier Section

Continuous Power Output from 20 Hertz to 20,000 Hertz
(Both channels driven) . . 65 watts per channel (8 ohms)
85 watts per channel (4 ohms)

Total Harmonic Distortion
(20 Hertz to 20,000 Hertz, from AUX)
Continuous Rated Power Output. . . No more than 0.1%
33 watts per channel power
output, 8 ohms No more than 0.05%
1 watt per channel power
output, 8 ohms No more than 0.05%

Intermodulation Distortion
(50 Hertz: 7,000Hertz=4:1, from AUX)
Continuous Rated Power Output. . . No more than 0.1%
33 watts per channel power
output, 8 ohms No more than 0.05%
1 watt per channel power
output, 8 ohms No more than 0.05%

Frequency Response 7Hz to 90,000Hz ± 1 dB

Input Sensitivity/Impedance
POWER AMP IN 1 V/50k ohms

Output
Speaker A, B, A+B
Headphone Low Impedance

Damping Factor
(20Hz to 20,000Hz, 8 ohms) 25
Hum and Noise (IHF, short-circuited, A Network) . . 100dB

Preamplifier Section

Input (Sensitivity/Impedance)
PHONO 1 2.5mV/50k ohms
PHONO 2 2.5mV/50k ohms
MIC 6.5mV/50k ohms
AUX 150mV/50k ohms
TAPE PLAY 1 150mV/50k ohms
TAPE PLAY 2 150mV/50k ohms
TAPE PLAY 2 (DIN connector) . . . 150mV/50k ohms
PHONO Overload Level (T.H.D. 0.1%)
PHONO 1 200mV (1kHz)
PHONO 2 200mV (1kHz)
Output Level/Impedance
TAPE REC 1 150mV
TAPE REC 2 150mV

TAPE REC 2 (DIN connector) 30mV/80k ohms
PRE OUT 1V/100 ohms

Total Harmonic Distortion
(20Hz to 20,000Hz 1V output). . . No more than 0.05%

Frequency Response
PHONO (RIAA equalization). 30Hz to 15,000Hz ± 0.2 dB
AUX, TAPE PLAY 10Hz to 50,000Hz ± 1 dB

Tone Control
BASS ± 7 dB/ ± 10 dB (100Hz)
Turnover Frequency 200Hz/400Hz
TREBLE ± 7 dB/ ± 10 dB (10kHz)
Turnover Frequency 5kHz/2.5kHz

Filter
LOW 30Hz (6dB/oct.)
HIGH 6kHz (6dB/oct.)

Loudness Contour (Volume control set
at -40dB position) +6dB (100Hz), +3dB (10kHz)

Hum and Noise
(IHF, short-circuited, A Network, rated power)
PHONO 70dB
AUX, TAPE PLAY 90dB

Muting -20dB

FM Section

Usable Sensitivity . . .
MONO 10.3dBf (1.8 μ V)
STEREO 22.2dBf (7.1 μ V)
50dB Quieting Sensitivity . . .
MONO 17.2dBf (4.0 μ V)
STEREO 38.0dBf (44 μ V)
Signal to Noise Ratio at 65dBf . MONO 72dB
STEREO 67dB
Distortion at 65dBf 100Hz . . . MONO 0.15%
STEREO 0.3%
1kHz MONO 0.15%
STEREO 0.3%
6kHz MONO 0.4%
STEREO 0.4%

Frequency Response 30HZ to 15,000Hz ± 2.0 dB
Capture Ratio 1.0dB
Alternate Channel Selectivity 80dB
Spurious Response Ratio 100dB
Image Response Ratio 85dB
IF Response Ratio 100dB
AM Suppression Ratio 55dB
Muting Threshold 14.0dBf (2.8 μ V)
Stereo Separation . . . 40dB (1kHz), 30dB (30Hz ~ 15kHz)
Subcarrier Product Ratio 62dB
SCA Rejection Ratio 62dB
Antenna Input 300 ohms balanced
75 ohms unbalanced

AM Section

Sensitivity (IHF, Ferrite antenna)	300 μ V/m
(IHF, Ext. antenna)	15 μ V
Selectivity	35dB
Signal to Noise Ratio	50dB
Image Rejection	40dB
IF Rejection	65dB
Antenna	Built-in Ferrite Loopstick Antenna

Miscellaneous

Power Requirements	120V 60Hz
Power Consumption	UL; 180W, 420W (max.) CSA; 400VA
Dimensions	526.6(W)x173(H)x411.5(D) mm 20-3/4(W)x6-13/16(H)x16-3/16(D) in
Weight Without package	19.1 kg (42 lb 3oz)
With package	22.4kg (49 lb 6oz)

Furnished Parts

FM T-type Antenna	1
Operating Instructions	1
Hex. Wrench	1

NOTE:

Specifications and the design subject to possible modification without notice due to improvements.

HEX WRENCH

The accessory hex. wrench is provided for removing the TUNING knob or tightening its setscrew in event it becomes loose.

If required, loosen the setscrew by inserting the wrench into the hole on the side of the knob and turning the wrench counterclockwise. Be particularly careful not to scratch the front panel when employing the wrench.



2. FRONT PANEL FACILITIES

SPEAKER BUTTONS

Two sets of speaker terminals, A and B, are provided on the rear panel, and the required speaker systems can be selected by depressing the SPEAKERS buttons as follows:
A Speaker systems A operate
B Speaker systems B operate

NOTES:

1. When any two buttons (A and B) are depressed simultaneously, the corresponding pairs of speaker systems will come into operation.
2. For private listening through headphones, return all the SPEAKERS buttons to the OFF (undepressed) position.

PHONES OUTPUT JACK

Accepts stereo headphones.

POWER SWITCH

After turning this switch ON there is a delay of some 3 to 6 seconds, during which time the protection circuit operates to eliminate unpleasant noise.

BASS CONTROL

Clockwise rotation gives stronger emphasis to the bass range below the turnover frequency (which is selected by the BASS TURNOVER switch), while counterclockwise rotation reduces bass response.

BASS TURNOVER SWITCH

This selects the frequency below which the bass tone control will begin to act. This "turnover" frequency can be set at 400Hz or 200Hz, to match the characteristics of the room, the program material, or your personal listening preferences.

TONE SWITCH

In the OFF (up) position, this switch causes the amplifier section to operate with a flat frequency response regardless of the tone control setting.

TREBLE TURNOVER SWITCH

This switch selects the frequency above which the treble tone control will begin to act. This "turnover" frequency can be set at 2.5kHz or 5kHz, to match the characteristics of the room, the program material, or your personal listening preferences.

TREBLE CONTROL

Clockwise rotation gives stronger emphasis to the high range above the turnover frequency (selected by the TREBLE TURNOVER switch), while counterclockwise rotation reduces high-range response.

FM TUNING METER

With the SIGNAL meter needle deflected to the right, make fine adjustment by centering the FM TUNING meter needle (indicating optimum reception).

SIGNAL METER

For AM and FM station tuning.

AM tuning: Tune for maximum deflection of the SIGNAL meter needle to the right.

FM tuning: Both the SIGNAL and FM TUNING meters work together

SPEAKER SYSTEM INDICATOR

FM STEREO INDICATOR

FM MUTING BUTTON

Leave this button undepressed (in the ON position) to suppress unpleasant interstation noise while tuning between FM stations. Low-strength signals may also be suppressed by this function, so to pick up a weak station depress this button to the OFF position.

TUNING KNOB

Select the station and tune for optimum reception by observing the SIGNAL meter for AM stations, and both SIGNAL and TUNING meters for FM stations.

PROGRAM SOURCE INDICATOR

FUNCTION SELECTOR BUTTONS

To select the program source, push the buttons as follows:

AM For AM broadcast reception.

FM For AM broadcast reception.

For FM stereo reception. Automatically receives monophonically during FM monophonic broadcasts. The STEREO indicator lights up when the broadcast is in stereo.

PHONO 1 To operate a turntable connected to the PHONO 1 input jacks.

PHONO 2/MIC . As above for PHONO 2 jacks, or for reproduction through a microphone connected to the MIC jack on the front panel. Note: when the microphone is plugged in the turntable connected to the PHONO 2 jacks cannot be used.

AUX For listening to an audio component (cartridge tape player, TV sound tuner, etc.) connected to the AUX input jacks.

NOTE: Only one FUNCTION button should be depressed at a time.

MIC JACK

Accepts a standard 6 ϕ mm microphone plug.

AUDIO MUTING SWITCH – 20dB

Set to –20dB to attenuate the audio output by 20dB. This convenient feature saves having to disturb the VOLUME control, for example when answering the telephone.

VOLUME CONTROL

Governs the level of sound outputs both from the speaker systems and from headphones.

LOUDNESS SWITCH

Set to ON when listening at low volume. The frequency response of the human ear varies according to the listening volume, and the ON position compensates for hearing response by emphasizing the bass and treble.

MODE SWITCH

Set to STEREO for normal stereo operation. When set to MONO, left and right channel signals will be mixed and reproduced monophonically from both speaker systems.

NOTE:
Recording stereophonically with the MODE switch in the MONO position may cause channel separation to deteriorate.

BALANCE CONTROL

Adjusts the balance between the sound volume from the left and right speaker systems or headphones.

LOW CUT FILTER SWITCH

When low-pitched rumble (from turntable motor or other source) is obstructive, set this switch to the 30Hz position to provide 6dB/octave attenuation at frequencies below 30Hz. If no interference is experienced, set in the up position.

HIGH CUT FILTER SWITCH

When high frequency scratch noise (from worn records or other source) is unpleasant, set this switch to the 6kHz position to provide 6dB/octave attenuation at frequencies above 6kHz. If there is no interference, set in the up position.

MPX NOISE FILTER BUTTON

Comparatively high frequency noise, incurred when receiving weak FM stereo signals, can be eliminated by depressing this button to ON. In this case however, there will be some loss of stereo separation.

ADAPTOR SWITCH

When employing adaptor components, such as a graphic equalizer adaptor, RG processor, or Dolby NR adaptor, set this ADAPTOR switch to ON.

TAPE MONITOR (1 & 2) SWITCHES

Set these switches to the ON (down) position as follows:

1 With a tape deck connected to the TAPE 1 jacks (REC and PLAY), either playback or monitoring of a recording in progress are possible.

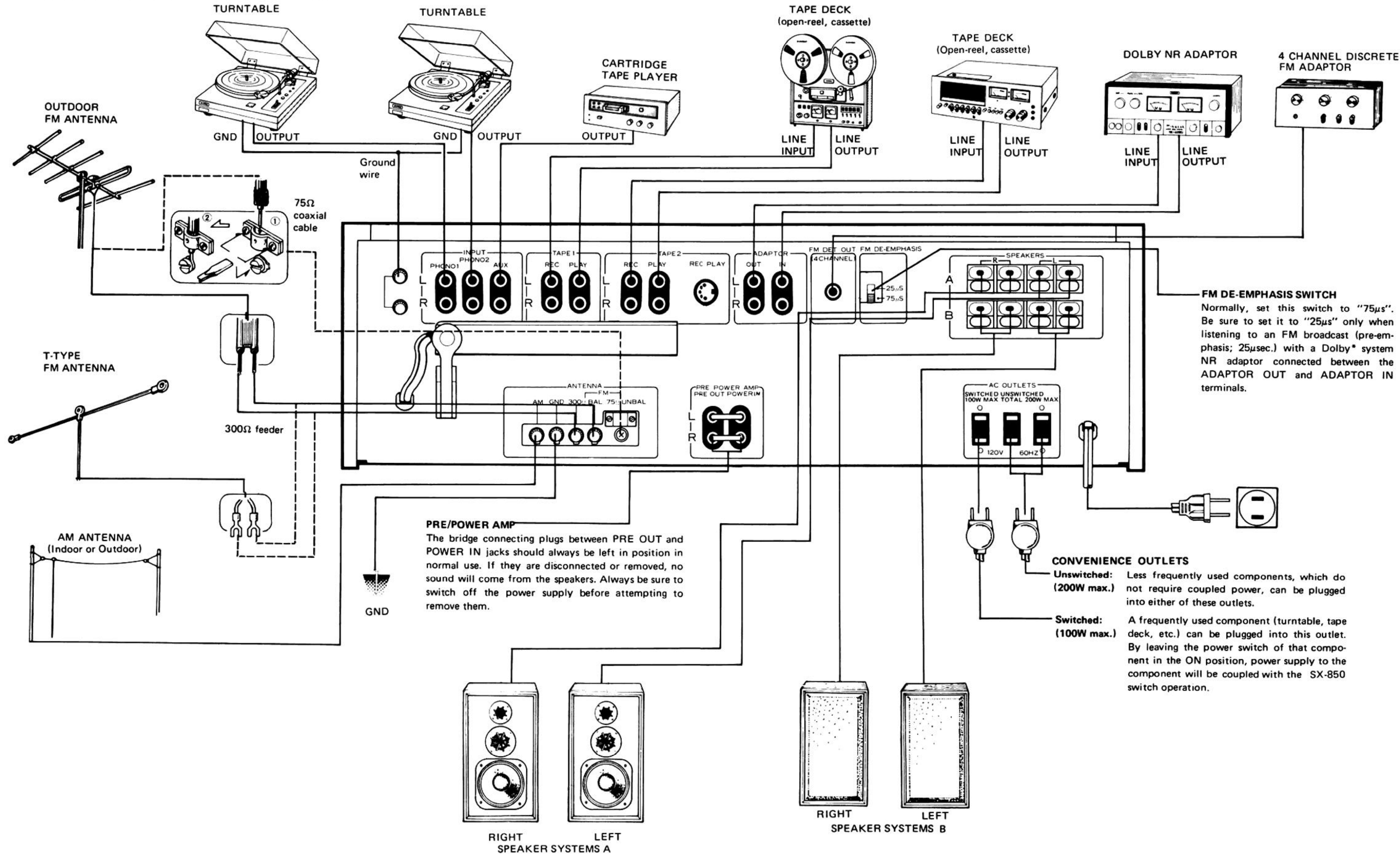
2 Same as in 1 above, with a tape deck connected to the TAPE 2 jacks (REC & PLAY, or REC/PLAY jack).

For normal use, leave in the OFF (up) positions.

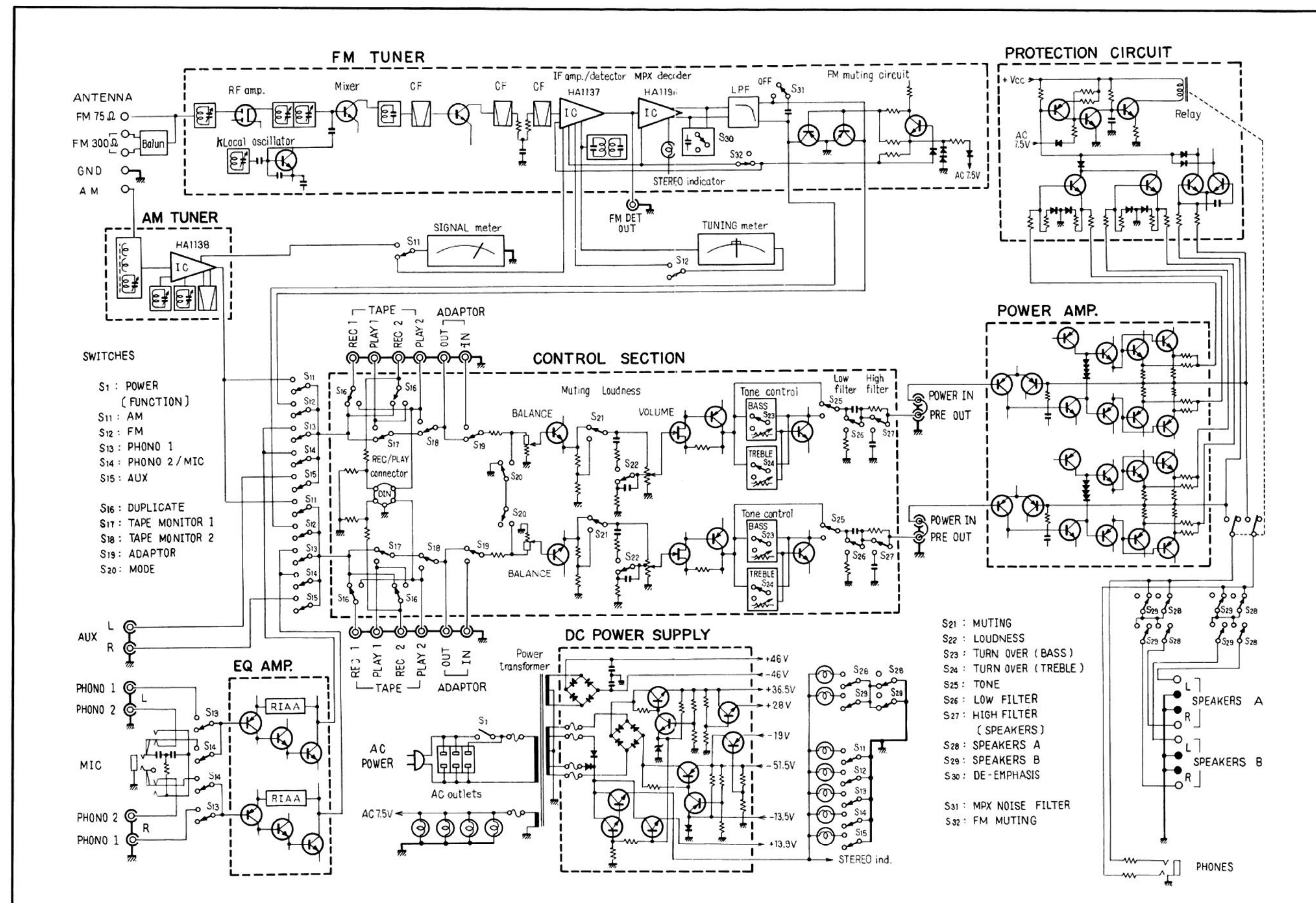
TAPE DUPLICATE SWITCH

Set this switch in the ON (down) position to duplicate or edit a recorded tape using two tape decks.

3. CONNECTION DIAGRAM



4. BLOCK DIAGRAM



7. DISASSEMBLY

Removing the Wooden Cover

Remove the two screws (A) on each side of the wooden cover.

Removing the Bottom Plate

Remove the eleven screws (B) to detach the bottom plate.

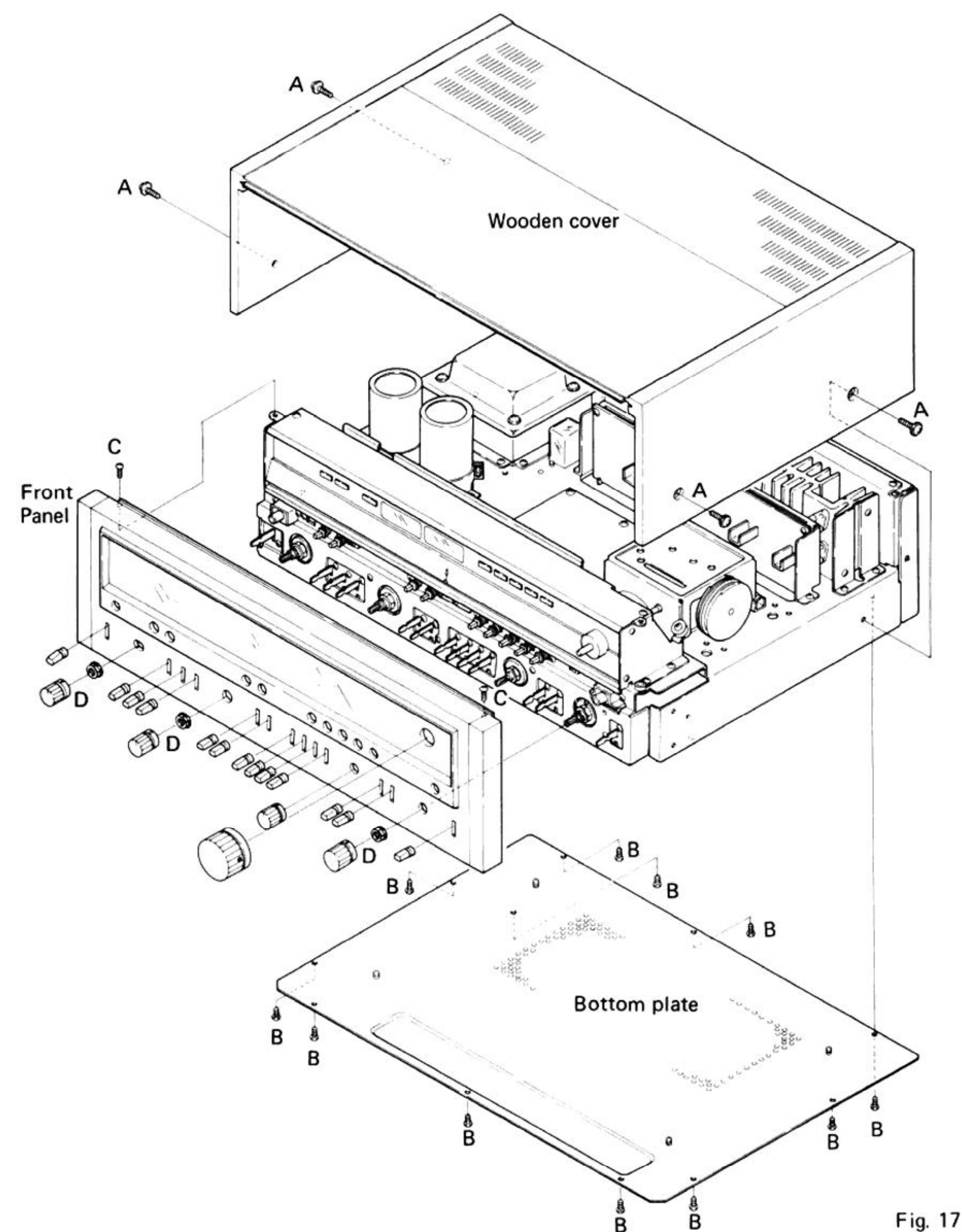


Fig. 17

Removing the Front Panel

1. Loosen the setscrew of TUNING knob with a hexagonal wrench.
2. Remove all the knob by pulling.
3. Remove the two screws (C) from the top edge of the front panel.
4. Remove the three nuts (D) from the tone and volume control shafts.

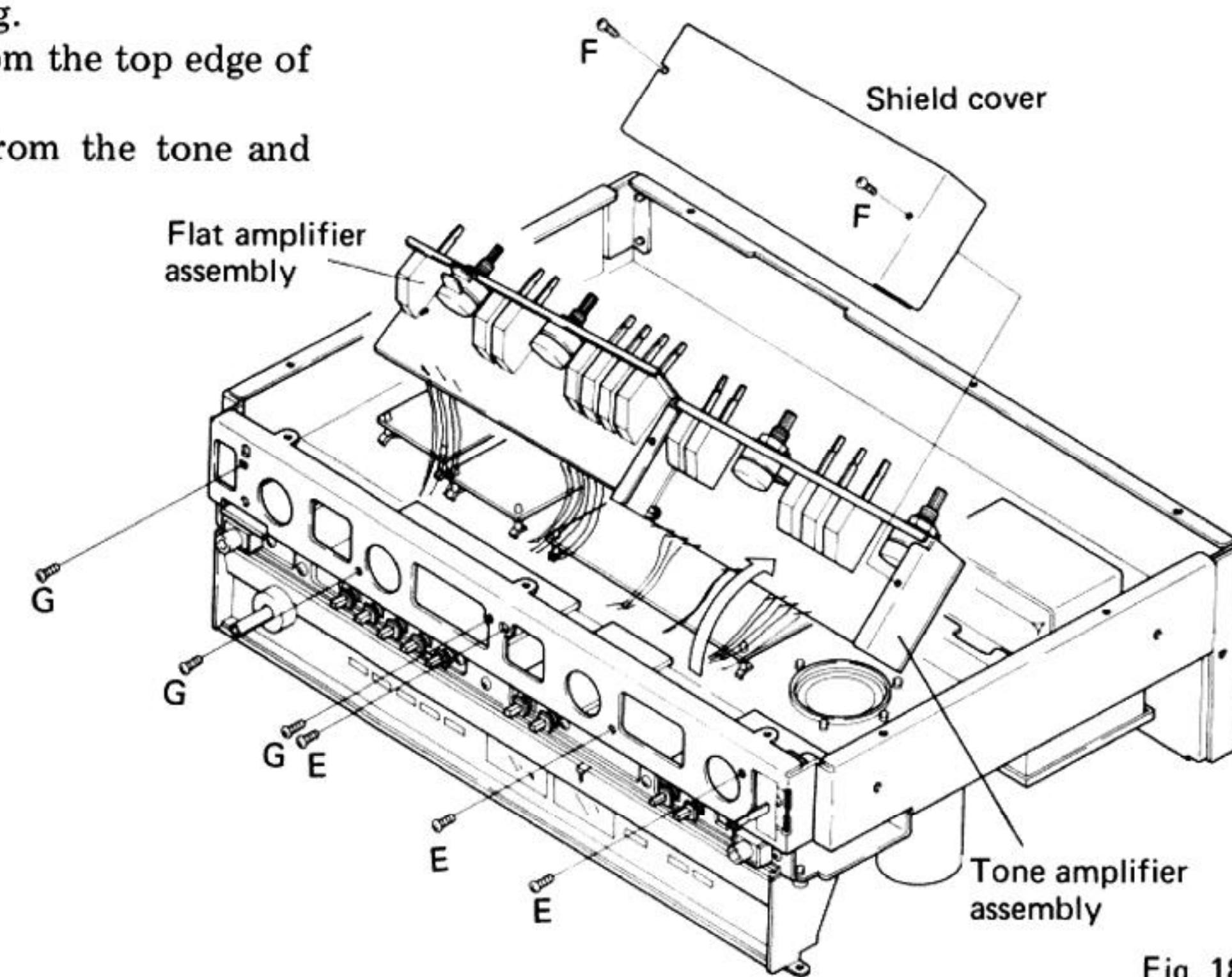


Fig. 18

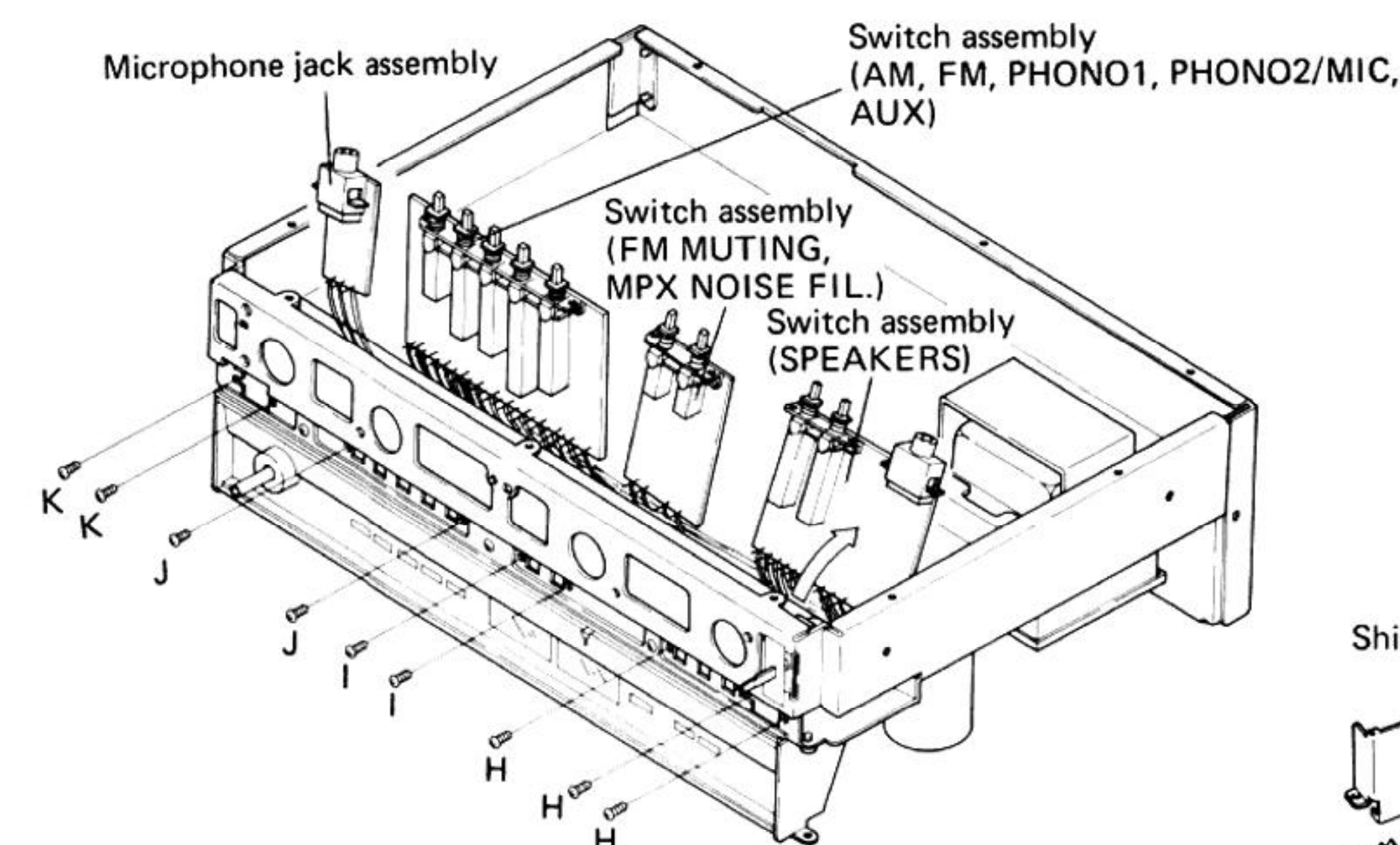


Fig. 19

Removing the Tone Amplifier Assembly

1. Unscrew the three screws (E) of the chassis.
2. Remove the tone amplifier assembly.

Removing the Flat Amplifier Assembly

1. Unscrew the three screws (G) of the chassis.
2. Remove the flat amplifier assembly. After this has been done flat amplifier can be checked.

Removing the Switch Assembly (SPEAKERS)

Unscrew the three screws (H) of the chassis.

Removing the Switch Assembly (FM MUTING, MPX NOISE FILTER)

Unscrew the two screws (I) of the chassis.

Removing the Switch Assembly (AM, FM, PHONO 1, PHONO 2/MIC, AUX)

Unscrew the two screws (J) of the chassis.

Removing the Microphone Jack Assembly

Unscrew the two screws (K) of the chassis.

Removing the Power Amplifier Assembly

1. Unscrew the six screws (L) which mount the heat sink and the shield plate on the chassis.
2. Unscrew the three screws (M) at the upper part of the power amplifier assembly.
3. This allows the heat sink to be turned forward. Remove the shield plate.
4. After this has been done the power amplifier can be checked.

NOTE:
Before turning the power on, take particular care that the heat sink and power amplifier assembly are not contacting any other parts of amplifier.

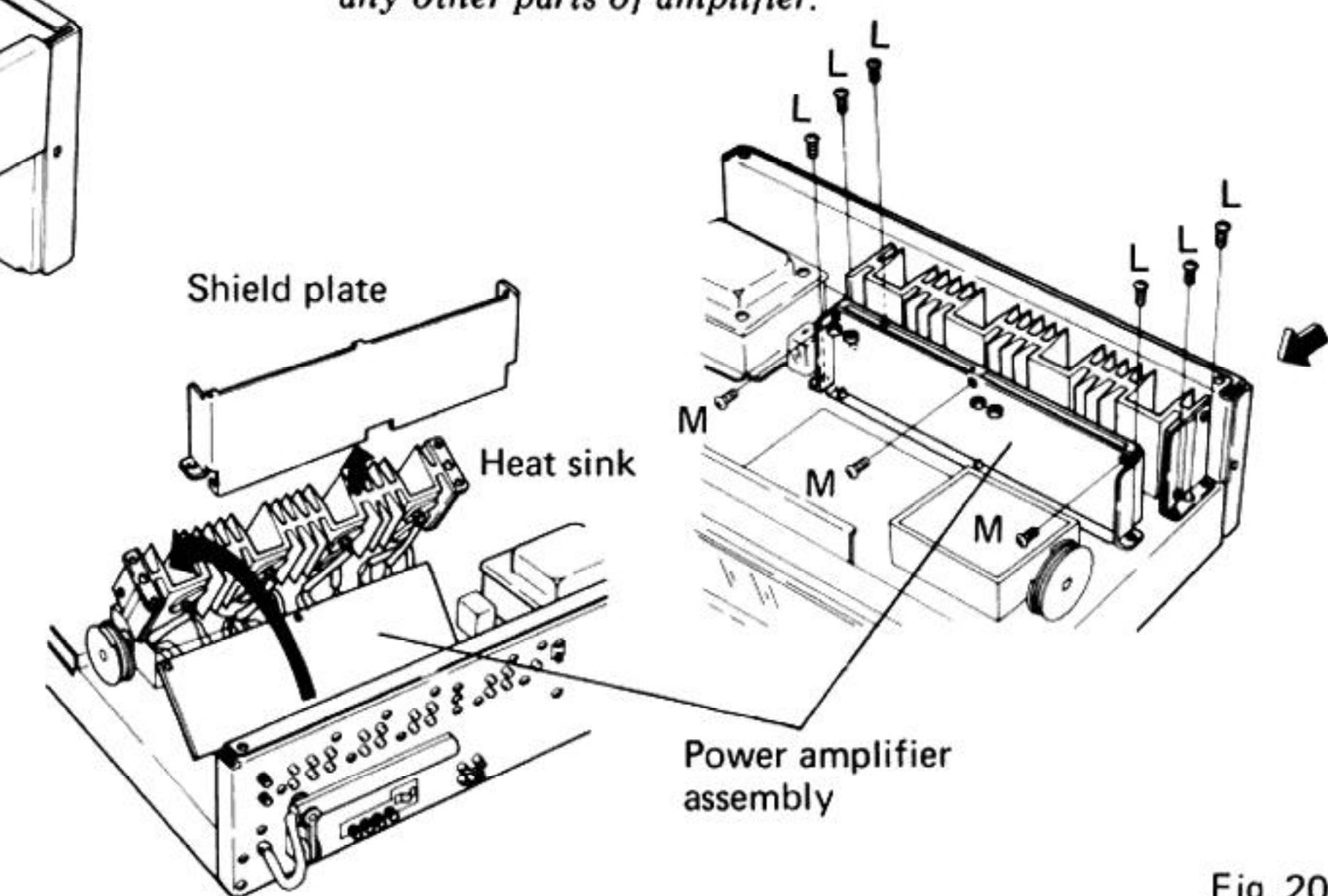
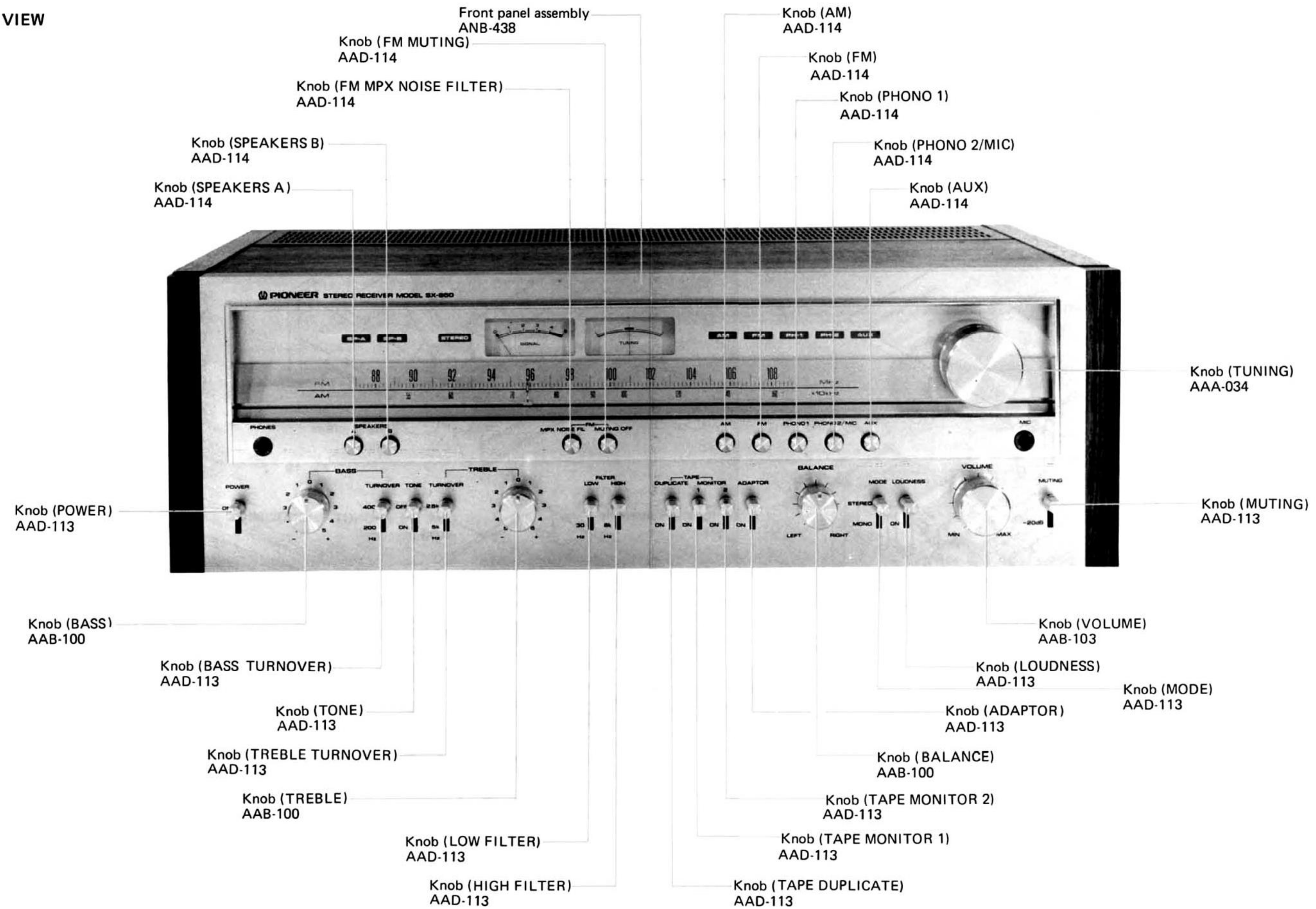


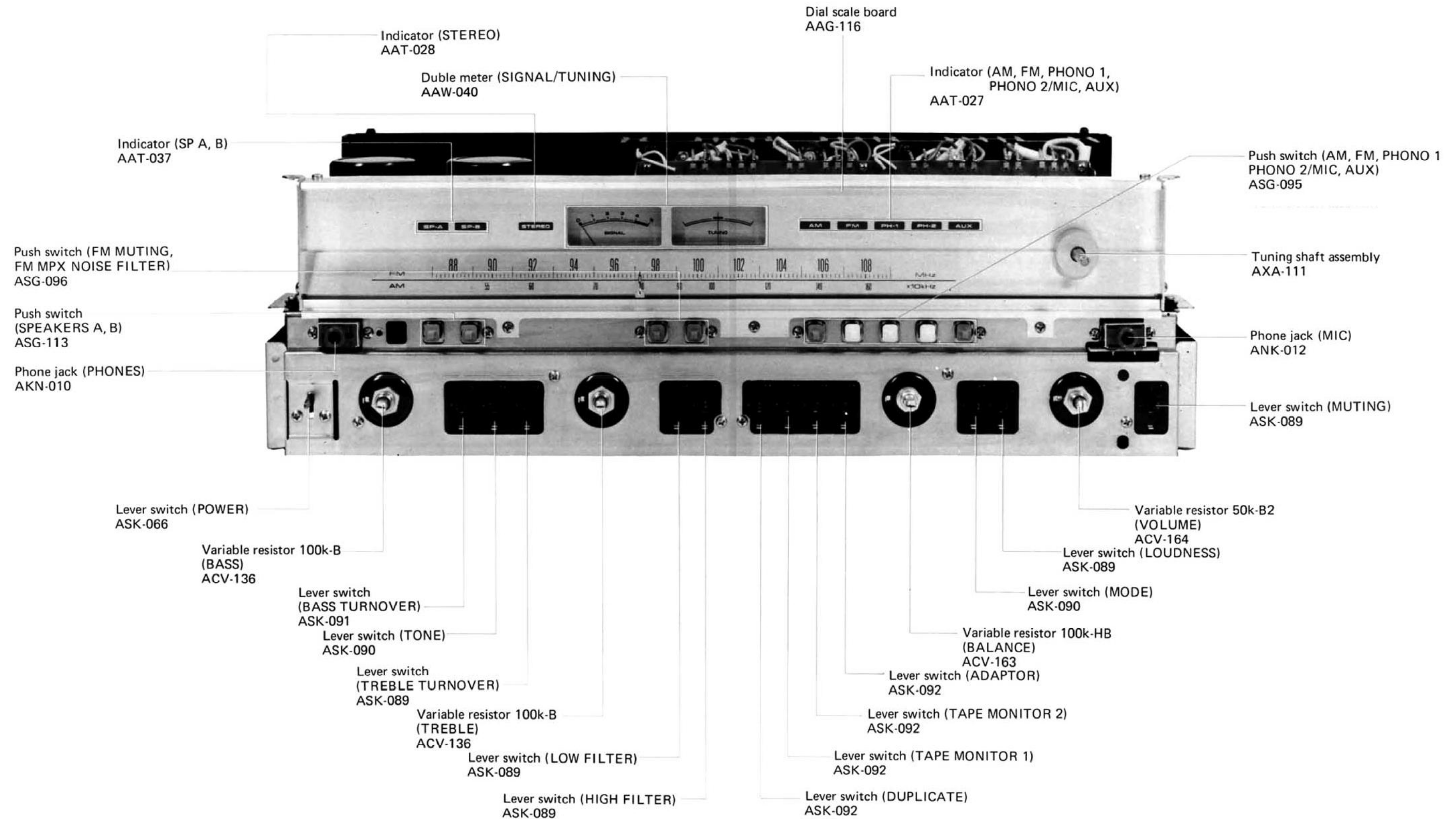
Fig. 20

8. PART LOCATIONS

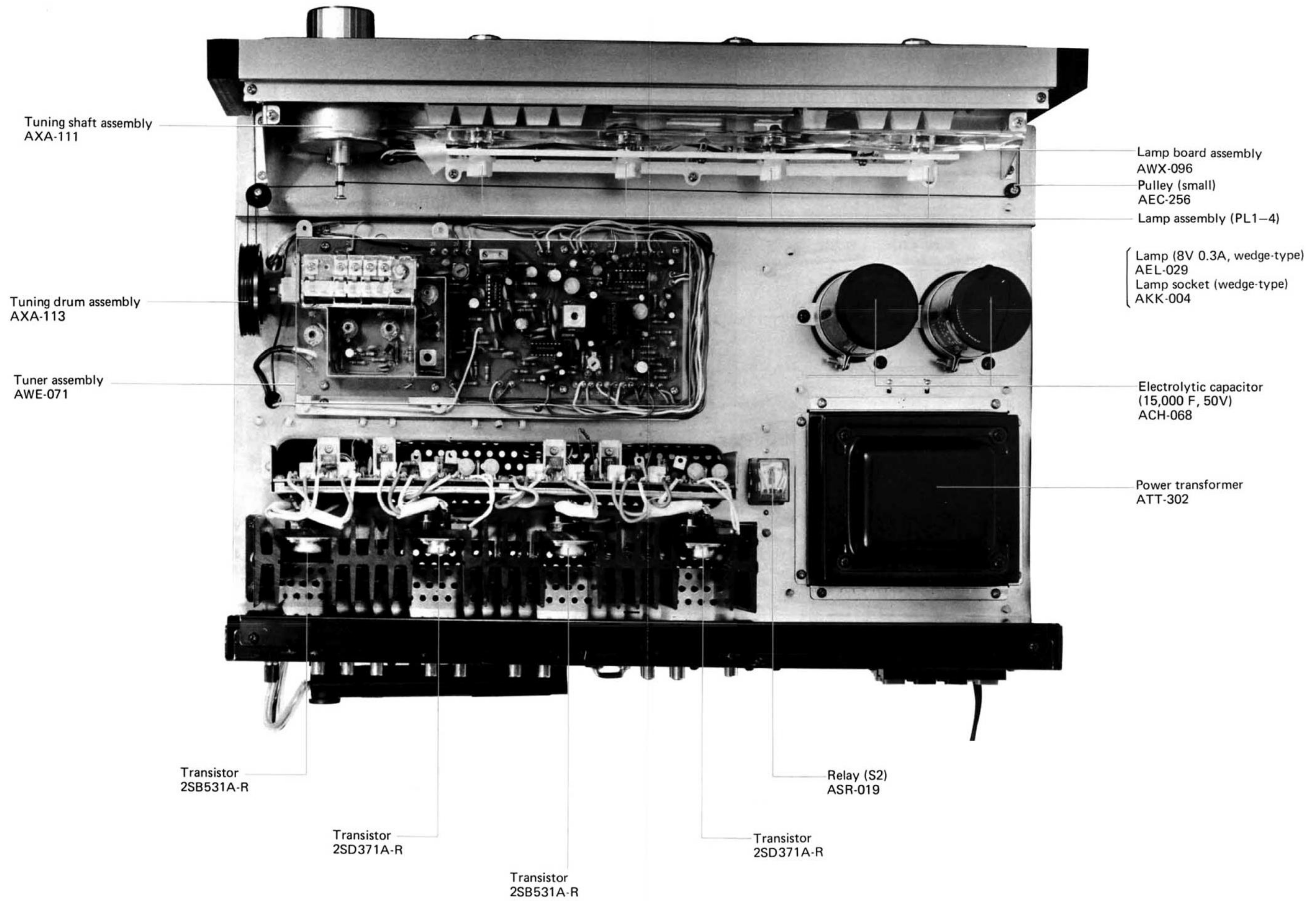
8.1 FRONT PANEL VIEW



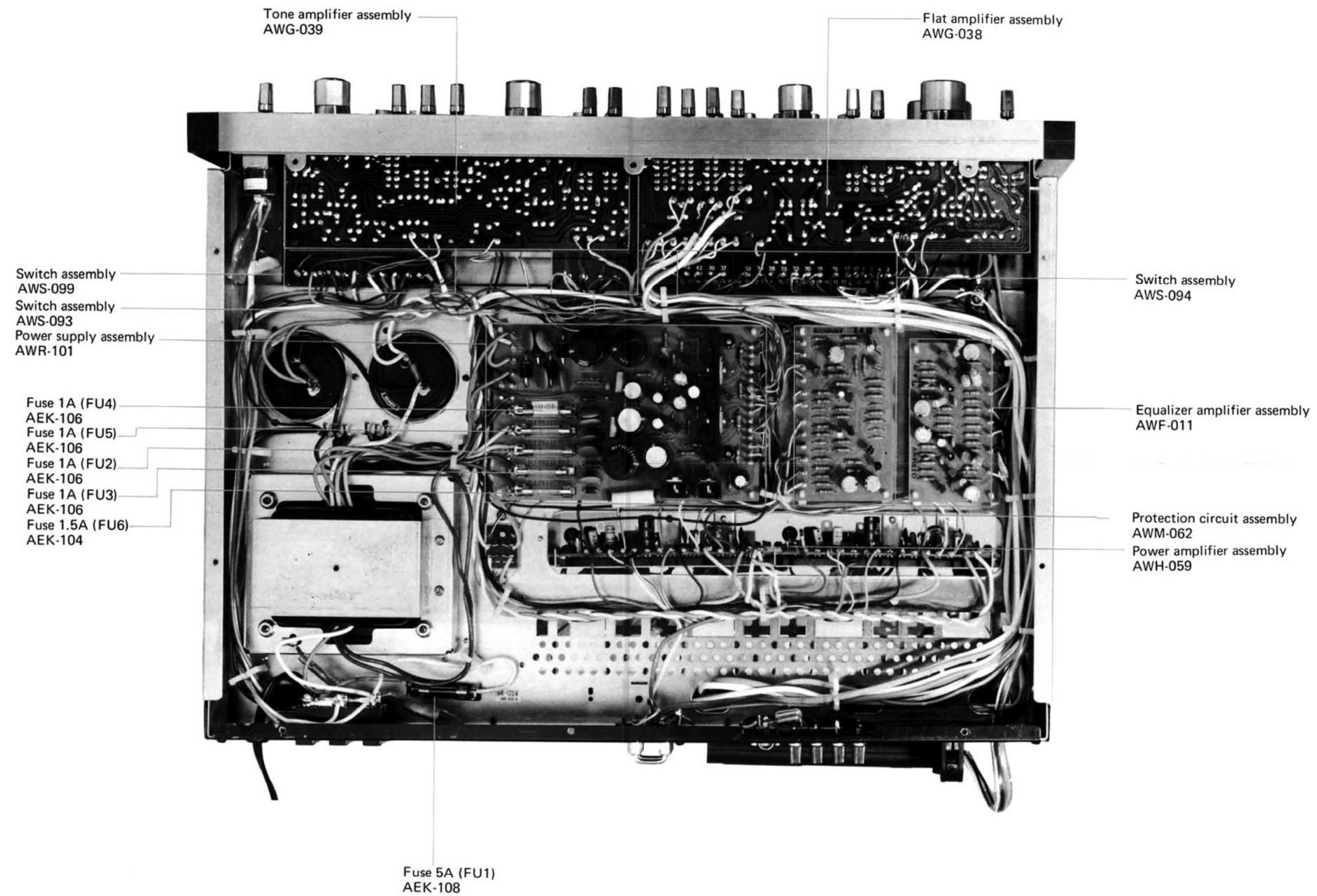
8.2 FRONT VIEW WITH PANEL REMOVED



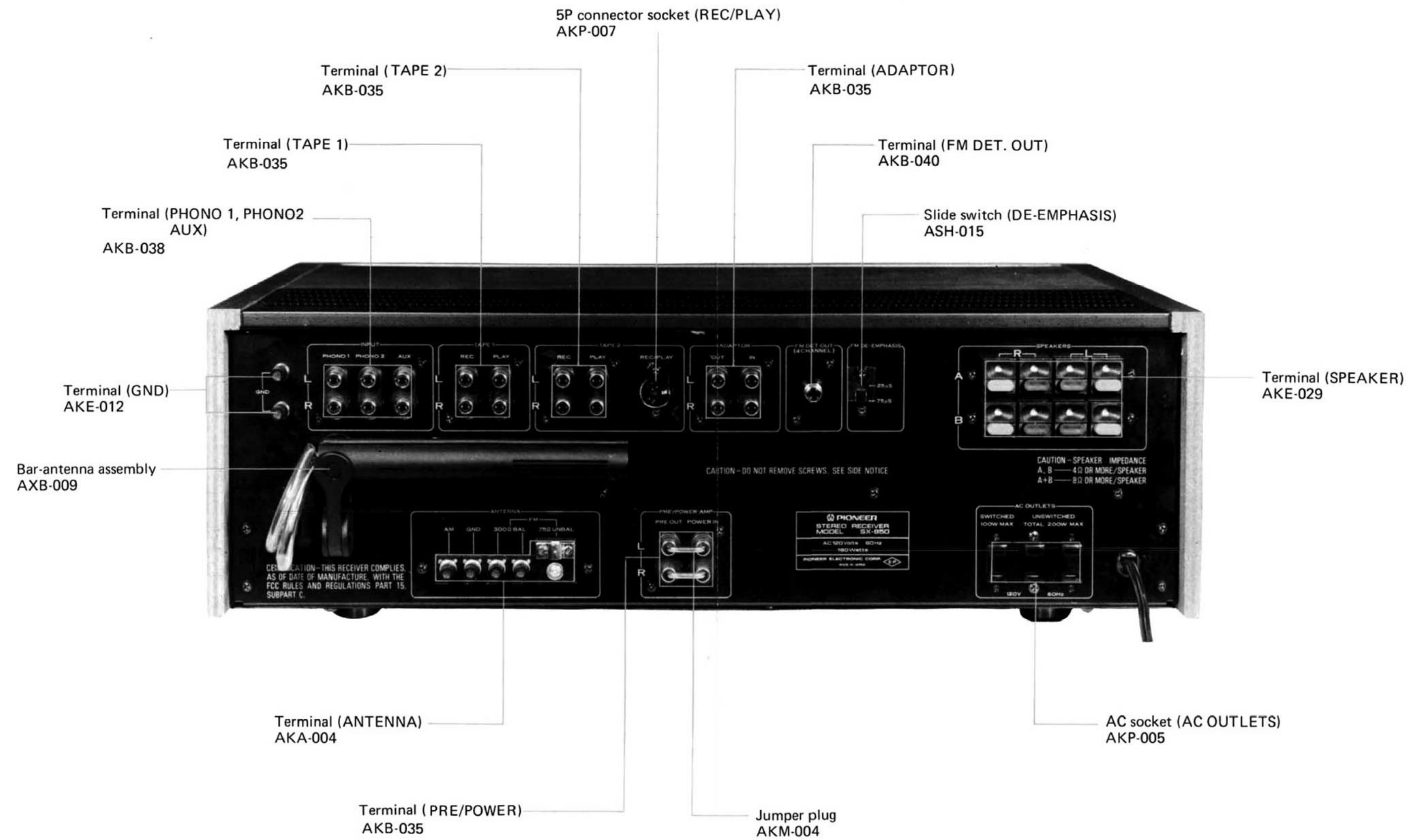
8.3 TOP VIEW

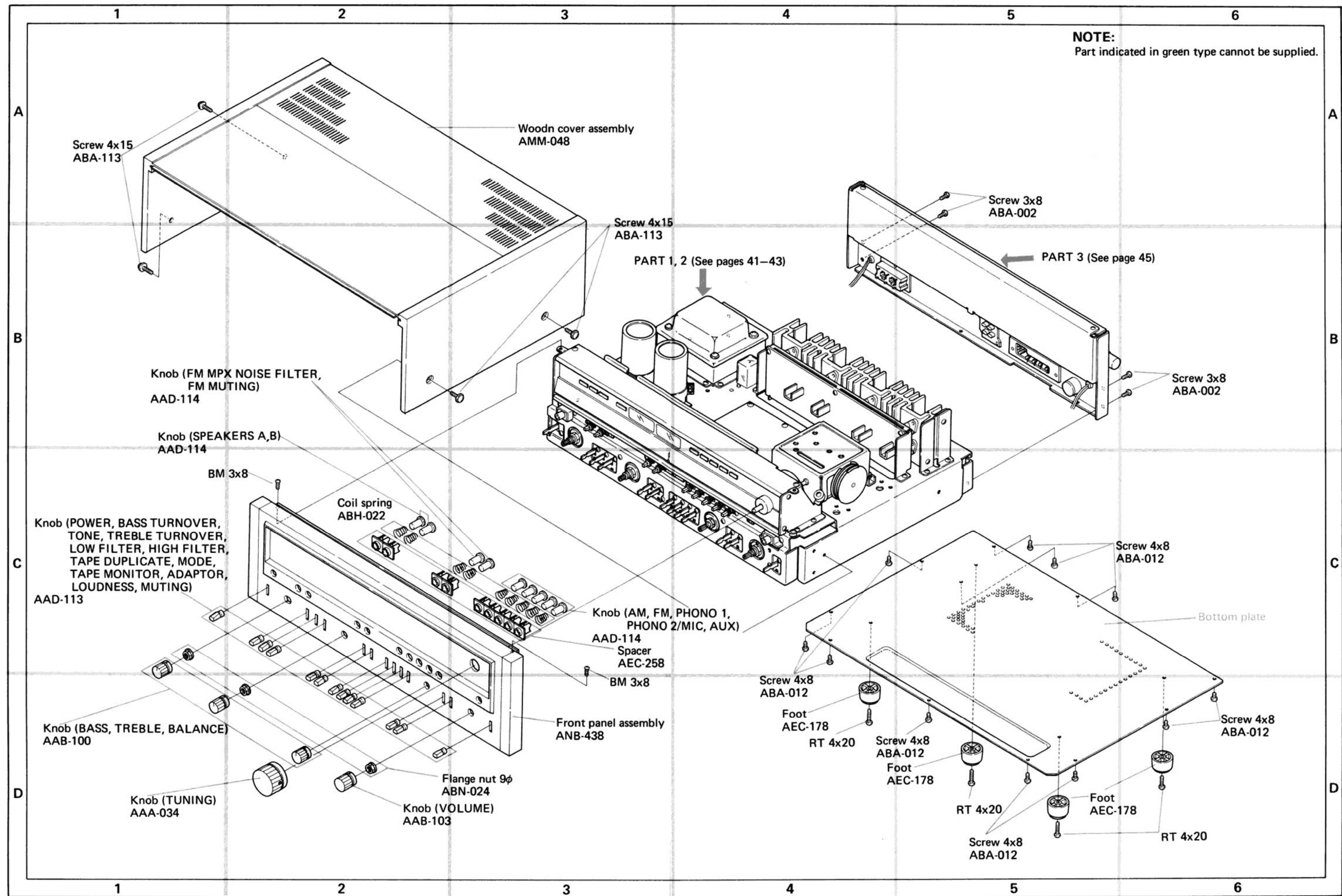


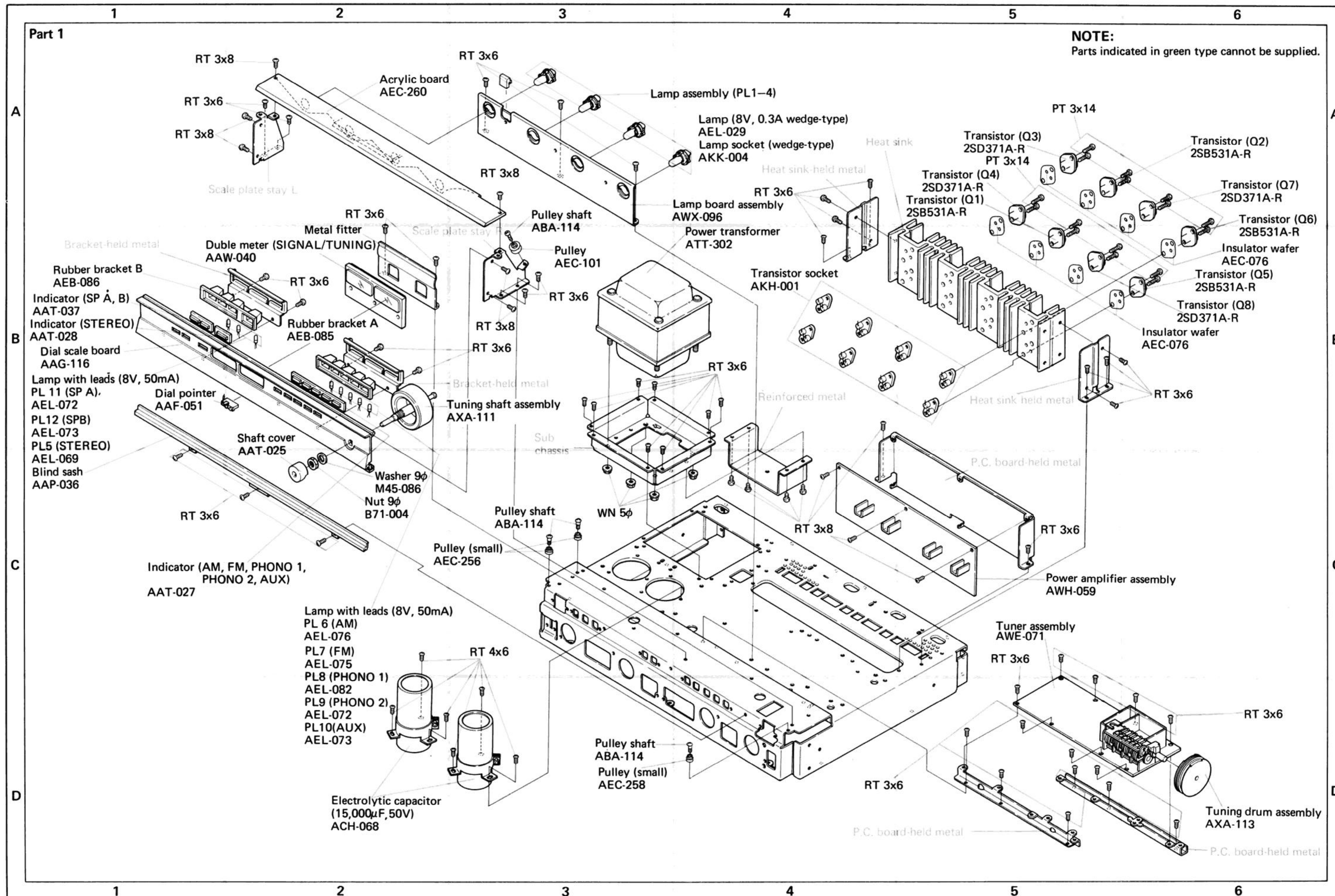
8.4 BOTTOM VIEW



8.5 REAR PANEL VIEW







Miscellaneous Parts

SEMICONDUCTORS

Symbol	Description	Part No.
Q1	Transistor	2SB531A-R
Q2	Transistor	2SB531A-R
Q3	Transistor	2SD371A-R
Q4	Transistor	2SD371A-R
Q5	Transistor	2SB531A-R
Q6	Transistor	2SB531A-R
Q7	Transistor	2SD371A-R
Q8	Transistor	2SD371A-R

LAMPS

Symbol	Description	Part No.
PL1	Lamp assembly *	
PL2	Lamp assembly *	
PL3	Lamp assembly *	
PL4	Lamp assembly *	
	*Lamp assemblies (PL1—PL4) are made up of following parts. (1) Lamp (8V, 0.3A, wedge-type) (2) Lamp socket (wedge-type)	AEL-029 AKK-004
PL5	Lamp with leads (8V, 50mA)	AEL-069
PL6	Lamp with leads (8V, 50mA)	AEL-076
PL7	Lamp with leads (8V, 50mA)	AEL-075
PL8	Lamp with leads (8V, 50mA)	AEL-082
PL9	Lamp with leads (8V, 50mA)	AEL-072
PL10	Lamp with leads (8V, 50mA)	AEL-073
PL11	Lamp with leads (8V, 50mA)	AEL-072
PL12	Lamp with leads (8V, 50mA)	AEL-073

FUSES

Symbol	Description	Part No.
FU1	Fuse 5A (primary)	AEK-108
FU2	Fuse 1A (secondary)	AEK-106
FU3	Fuse 1A (secondary)	AEK-106
FU4	Fuse 1A (secondary)	AEK-106
FU5	Fuse 1A (secondary)	AEK-106
FU6	Fuse 1.5A (lamp circuit)	AEK-104

SWITCHES

Symbol	Description	Part No.
S1	Lever switch (POWER)	ASK-066
S2	Relay	ASR-019

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

TRANSFORMERS AND COIL

Symbol	Description	Part No.
T1	Power transformer	ATT-302
T2	Ferrite balun	T22-025
T3	Bar-antenna assembly	AXB-009

RESISTORS

Symbol	Description	Part No.
R1	Metal oxide 4.7k 2W	RS2P 472J
R2	Metal oxide 4.7k 2W	RS2P 472J
R3	Carbon film 2.2M $\frac{1}{4}W$	RD $\frac{1}{2}$ PS 225J

CAPACITORS

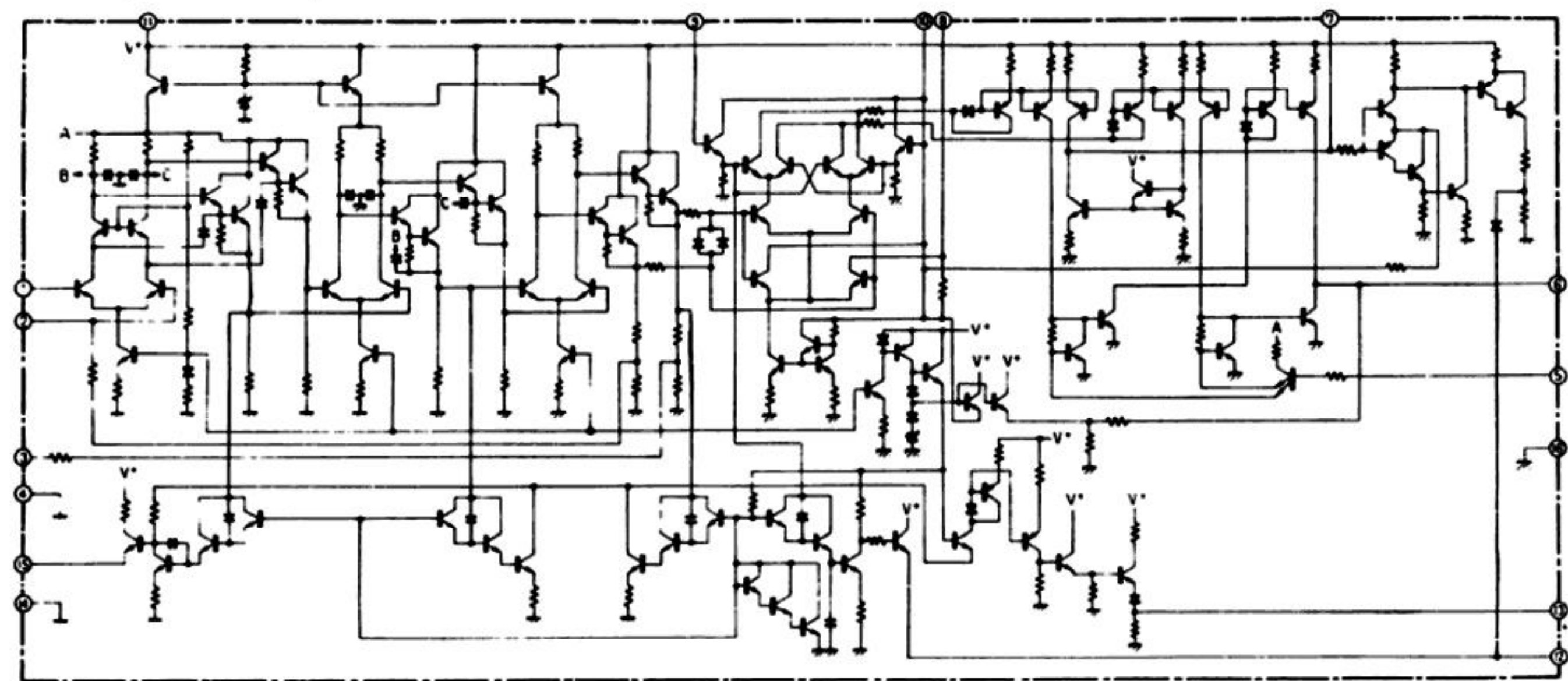
Symbol	Description	Part No.
C1	Electrolytic 15,000 50V	ACH-068
C2	Electrolytic 15,000 50V	ACH-068
C3	Ceramic 0.01 150V(DC1.4kV)	ACG-003
C4	Ceramic 0.01 150V(DC1.4kV)	ACG-003
C5	Ceramic 0.01 50V	CKDYF 103Z 50
C6	Ceramic 0.01 50V	CKDYF 103Z 50
C7	Ceramic 0.01 50V	CKDYF 103Z 50
C8	Ceramic 0.01 50V	CKDYF 103Z 50
C9	Ceramic 0.01 50V	CKDYF 103Z 50
C10	Ceramic 0.01 50V	CKDYF 103Z 50
C11	Ceramic 0.01 50V	CKDYF 103Z 50
C12	Ceramic 0.01 50V	CKDYF 103Z 50

OTHERS

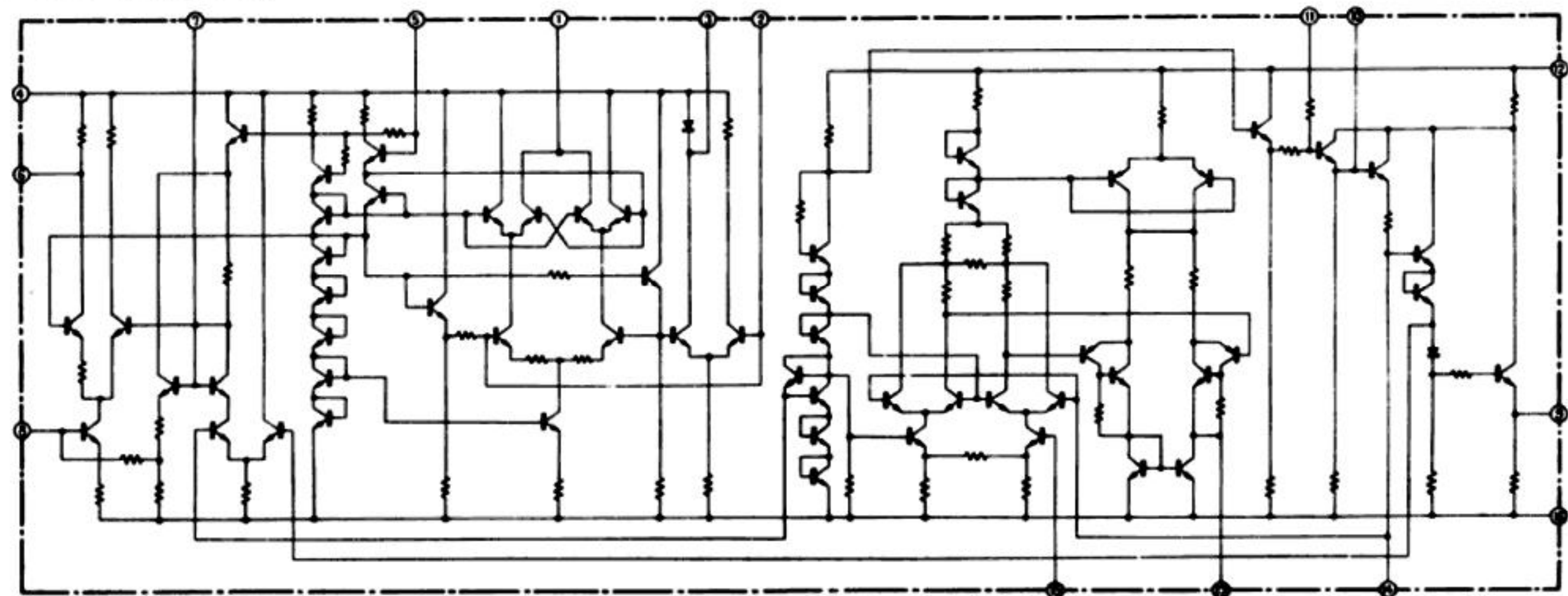
Symbol	Description	Part No.
	AC socket (AC OUTLETS)	AKP-005
	AC power cord	ADG-005

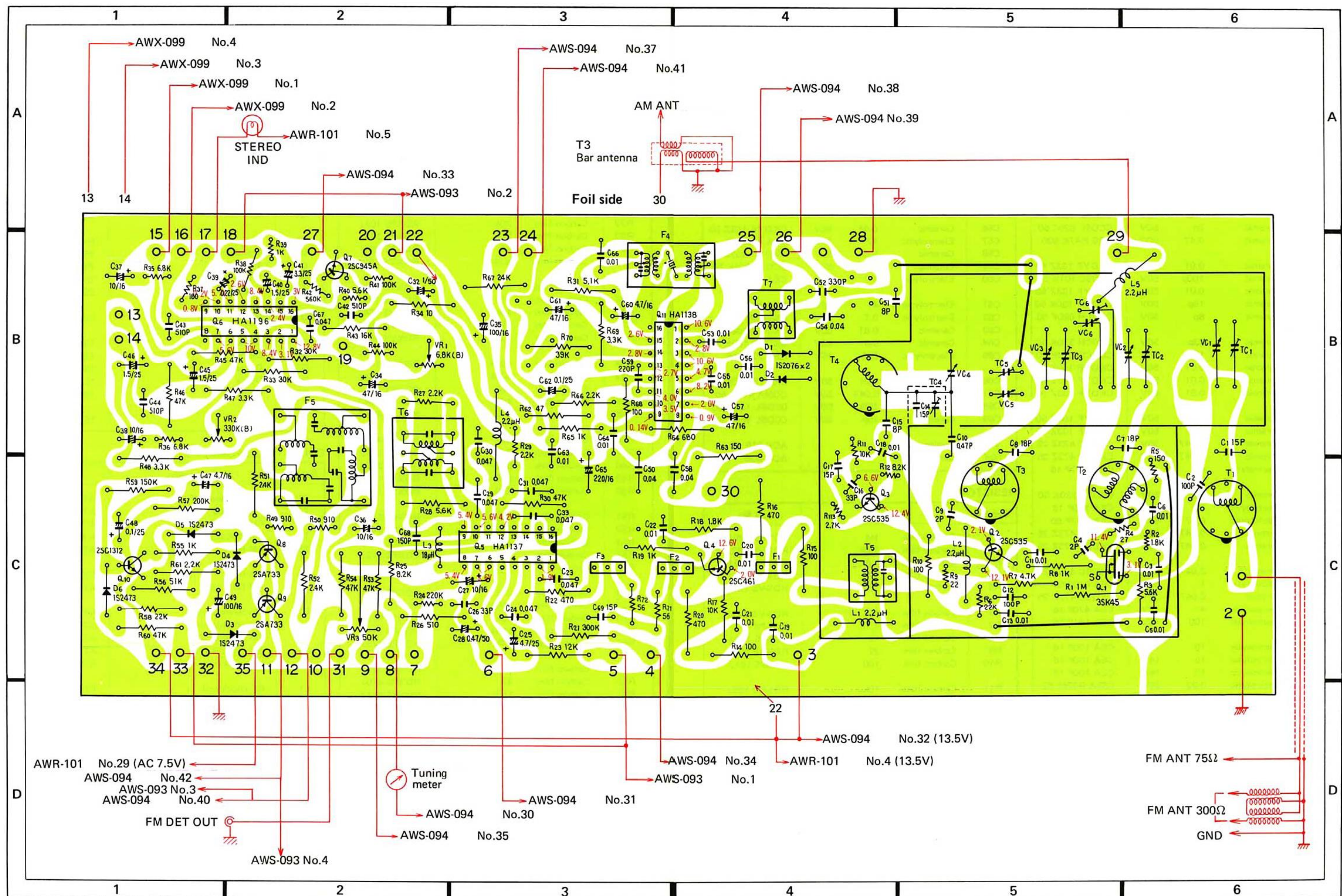
Equivalent Circuit Diagrams of ICs

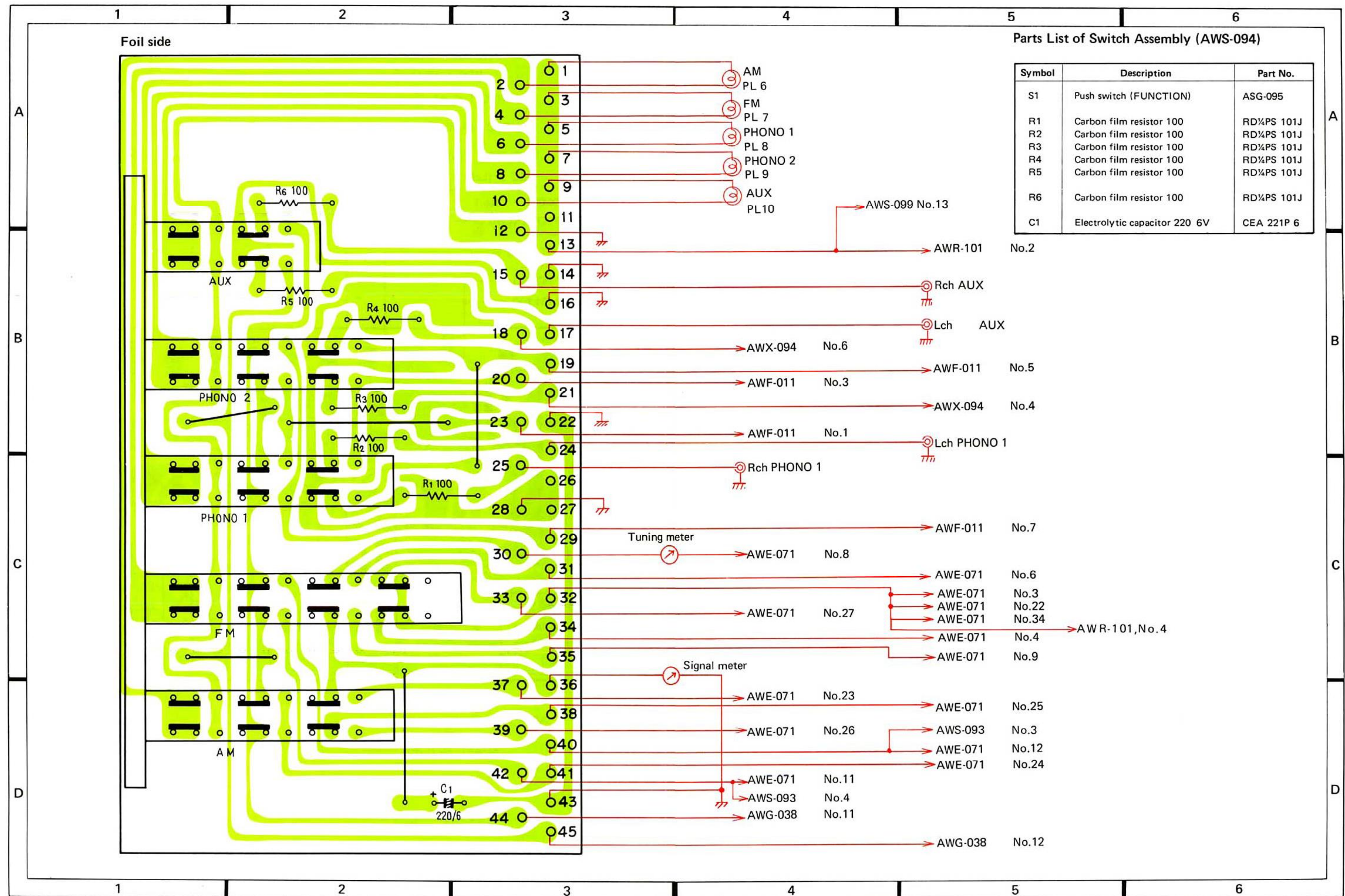
HA1137 (FM IF IC)

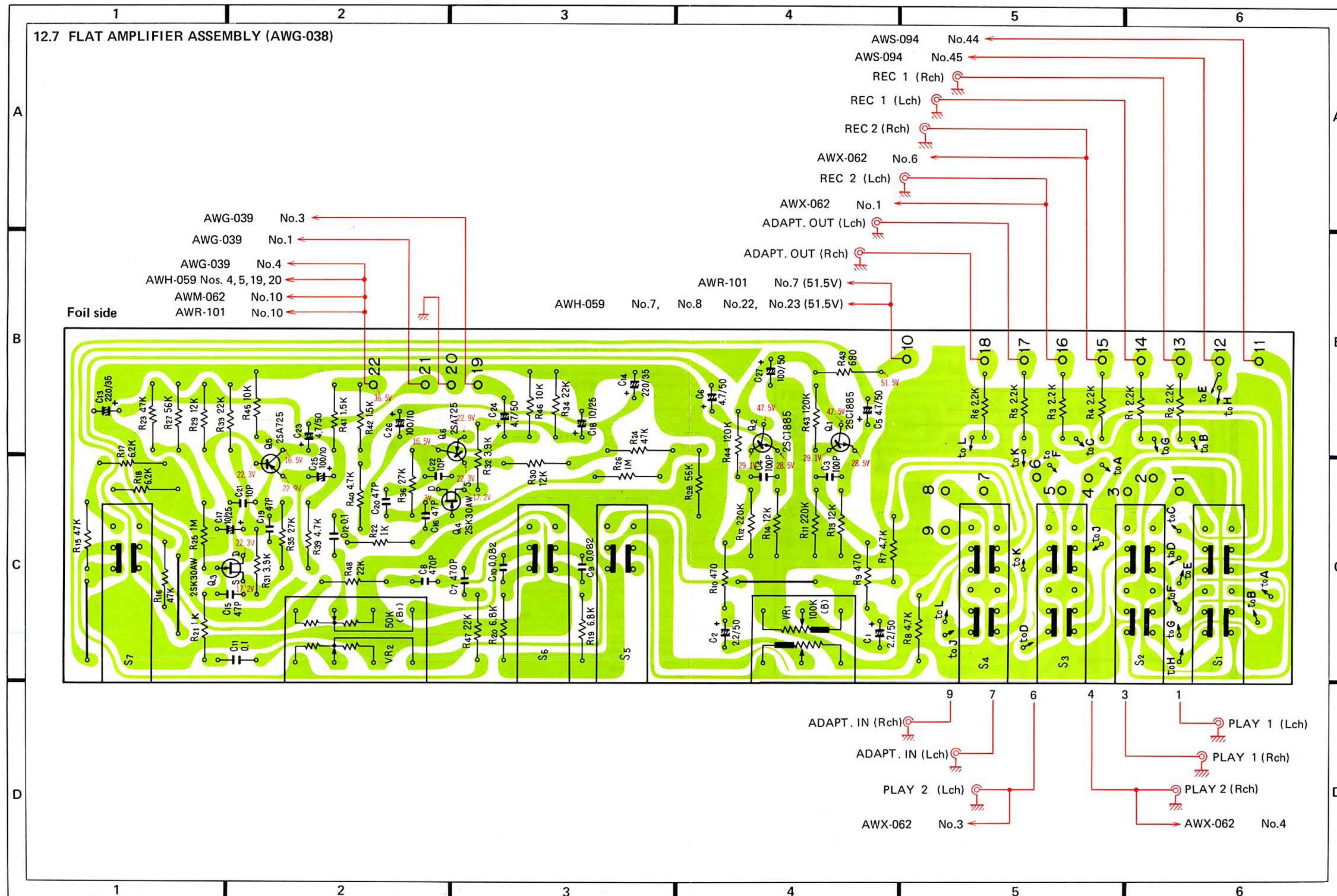


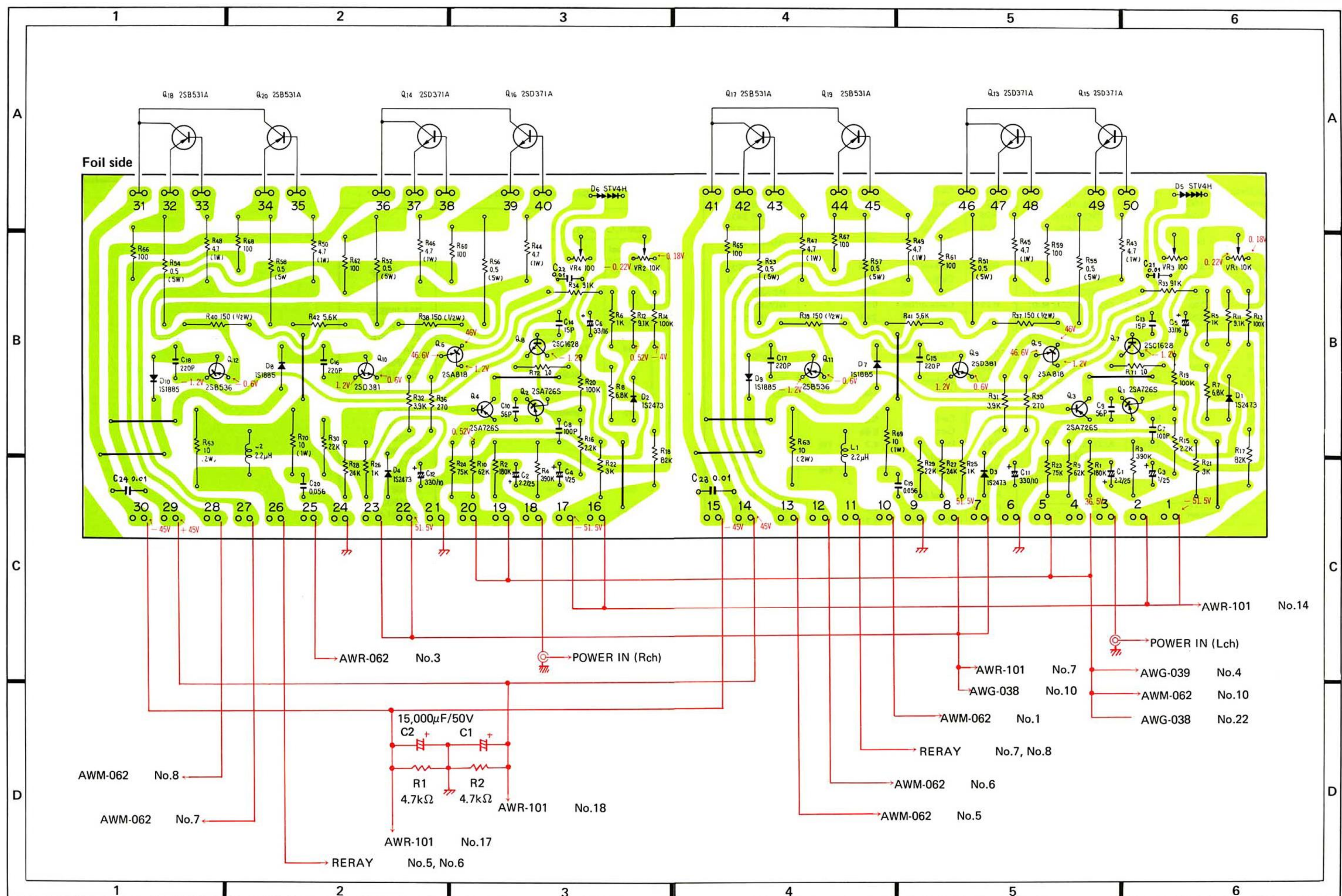
HA1138 (AM IC)











Parts List of Power Amplifier Assembly (AWH-059)

CAPACITORS

Symbol	Description			Part No.
C1	Electrolytic	2.2	25V	CSSA 2R2M 25
C2	Electrolytic	2.2	25V	CSSA 2R2M 25
C3	Electrolytic	1	25V	CSSA 010M 25
C4	Electrolytic	1	25V	CSSA 010M 25
C5	Electrolytic	33	16V	CEA 330P 16
C6	Electrolytic	33	16V	CEA 330P 16
C7	Ceramic	100p	50V	CCDSL 101K 50
C8	Ceramic	100p	50V	CCDSL 101K 50
C9	Ceramic	56p	50V	CCDSL 560K 50
C10	Ceramic	56p	50V	CCDSL 560K 50
C11	Electrolytic	330	10V	CEA 331P 10
C12	Electrolytic	330	10V	CEA 331P 10
C13	Ceramic	15p	500V	CCDSL 150K 500
C14	Ceramic	15p	500V	CCDSL 150K 500
C15	Ceramic	220p	500V	CCDSL 221K 500
C16	Ceramic	220p	500V	CCDSL 221K 500
C17	Ceramic	220p	500V	CCDSL 221K 500
C18	Ceramic	220p	500V	CCDSL 221K 500
C19	Mylar	0.056	50V	CQMA 563M 50
C20	Mylar	0.056	50V	CQMA 563M 50
C21	Ceramic	0.01	50V	CKOYF 103Z 50
C22	Ceramic	0.01	50V	CKDYF 103Z 50
C23	Ceramic	0.01	150V	ACG-004
C24	Ceramic	0.01	150V	ACG-004

RESISTORS

Symbol	Description			Part No.
R1	Carbon film	180k		RD¼PS 184J
R2	Carbon film	180k		RD¼PS 184J
R3	Carbon film	390k		RD¼PS 394J
R4	Carbon film	390k		RD¼PS 394J
R5	Carbon film	1k		RD¼PS 102J
R6	Carbon film	1k		RD¼PS 102J
R7	Carbon film	6.8k		RD¼PS 682J
R8	Carbon film	6.8k		RD¼PS 682J
R9	Carbon film	62k		RD¼PS 623J
R10	Carbon film	62k		RD¼PS 623J
R11	Carbon film	9.1k		RD¼PS 912J
R12	Carbon film	9.1k		RD¼PS 912J
R13	Carbon film	100k		RD¼PS 104J
R14	Carbon film	100k		RD¼PS 104J
R15	Carbon film	2.2k		RD¼PS 222J
R16	Carbon film	2.2k		RD¼PS 222J
R17	Carbon film	82k		RD¼PS 823J
R18	Carbon film	82k		RD¼PS 823J
R19	Carbon film	100k		RD¼PS 104J
R20	Carbon film	100k		RD¼PS 104J

Symbol	Description			Part No.
R21	Carbon film	3k		RD¼PS 302J
R22	Carbon film	3k		RD¼PS 302J
R23	Carbon film	75k		RD¼PS 753J
R24	Carbon film	75k		RD¼PS 753J
R25	Carbon film	1k		RD¼PS 102J
R26	Carbon film	1k		RD¼PS 102J
R27	Carbon film	24k		RD¼PS 243J
R28	Carbon film	24k		RD¼PS 243J
R29	Carbon film	22k		RD¼PS 223J
R30	Carbon film	22k		RD¼PS 223J
R31	Carbon film	3.9k		RD¼PS 392J
R32	Carbon film	3.9k		RD¼PS 392J
R33	Carbon film	91k		RD¼PS 913J
R34	Carbon film	91k		RD¼PS 913J
R35	Carbon film	270		RD¼PS 271J
R36	Carbon film	270		RD¼PS 271J
R37	Carbon film	150	½W	RD½PS 151J
R38	Carbon film	150	½W	RD½PS 151J
R39	Carbon film	150	½W	RD½PS 151J
R40	Carbon film	150	½W	RD½PS 151J
R41	Carbon film	5.6k		RD¼PS 562J
R42	Carbon film	5.6k		RD¼PS 562J
R43	Metal film	4.7	1W	RN1H 4R7K
R44	Metal film	4.7	1W	RN1H 4R7K
R45	Metal film	4.7	1W	RN1H 4R7K
R46	Metal film	4.7	1W	RN1H 4R7K
R47	Metal film	4.7	1W	RN1H 4R7K
R48	Metal film	4.7	1W	RN1H 4R7K
R49	Metal film	4.7	1W	RN1H 4R7K
R50	Metal film	4.7	1W	RN1H 4R7K
R51	Wire wound	0.5	5W	RT5B 0R5K
R52	Wire wound	0.5	5W	RT5B 0R5K
R53	Wire wound	0.5	5W	RT5B 0R5K
R54	Wire wound	0.5	5W	RT5B 0R5K
R55	Wire wound	0.5	5W	RT5B 0R5K
R56	Wire wound	0.5	5W	RT5B 0R5K
R57	Wire wound	0.5	5W	RT5B 0R5K
R58	Wire wound	0.5	5W	RT5B 0R5K
R59	Carbon film	100		RD¼PS 101J
R60	Carbon film	100		RD¼PS 101J
R61	Carbon film	100		RD¼PS 101J
R62	Carbon film	100		RD¼PS 101J
R63	Metal oxide	10	2W	RS2P 100J
R64	Metal oxide	10	2W	RS2P 100J
R65	Carbon film	100		RD¼PS 101J
R66	Carbon film	100		RD¼PS 101J
R67	Carbon film	100		RD¼PS 101J
R68	Carbon film	100		RD¼PS 101J
R69	Metal oxide	10	1W	RS1P 100J
R70	Metal oxide	10	1W	RS1P 100J

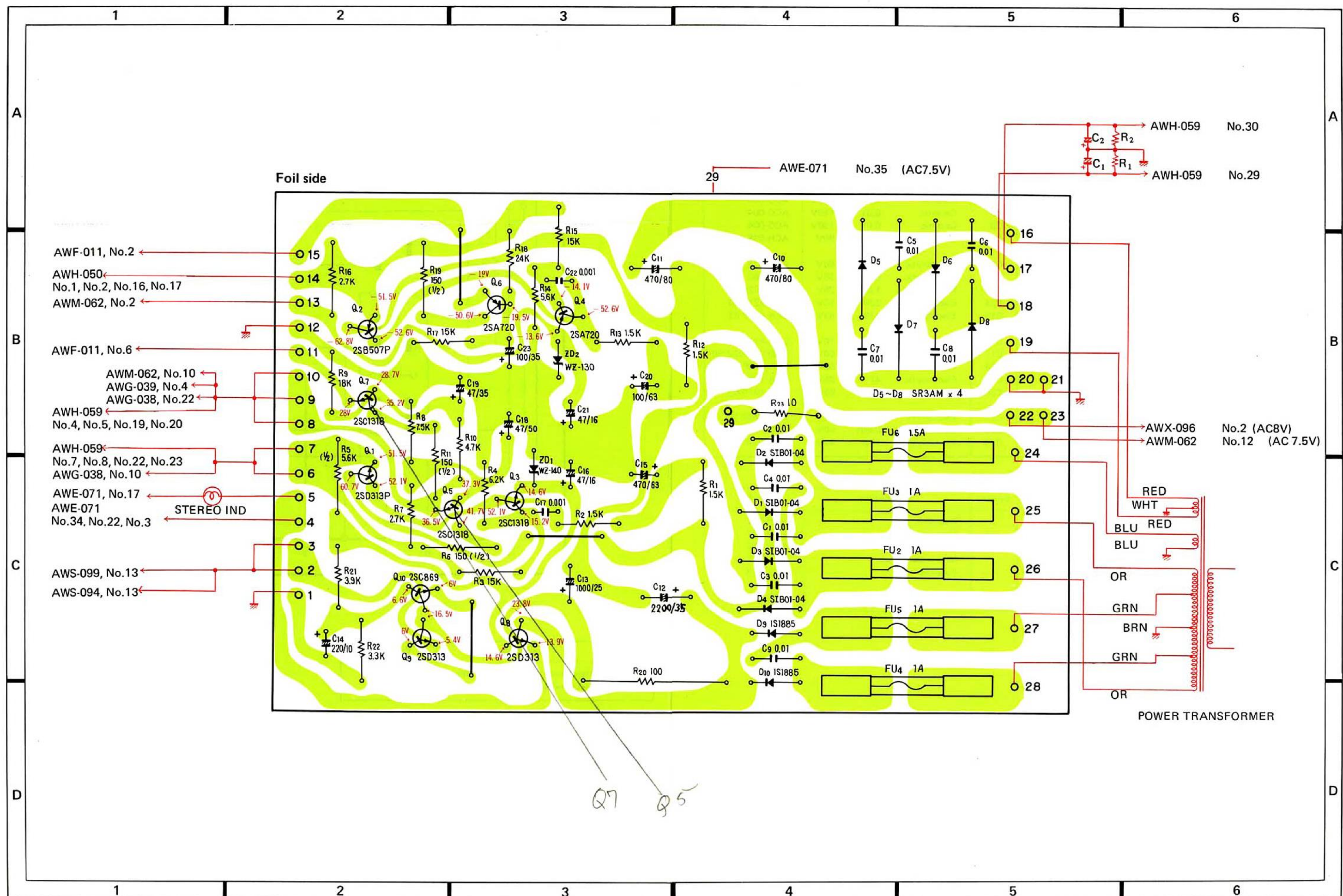
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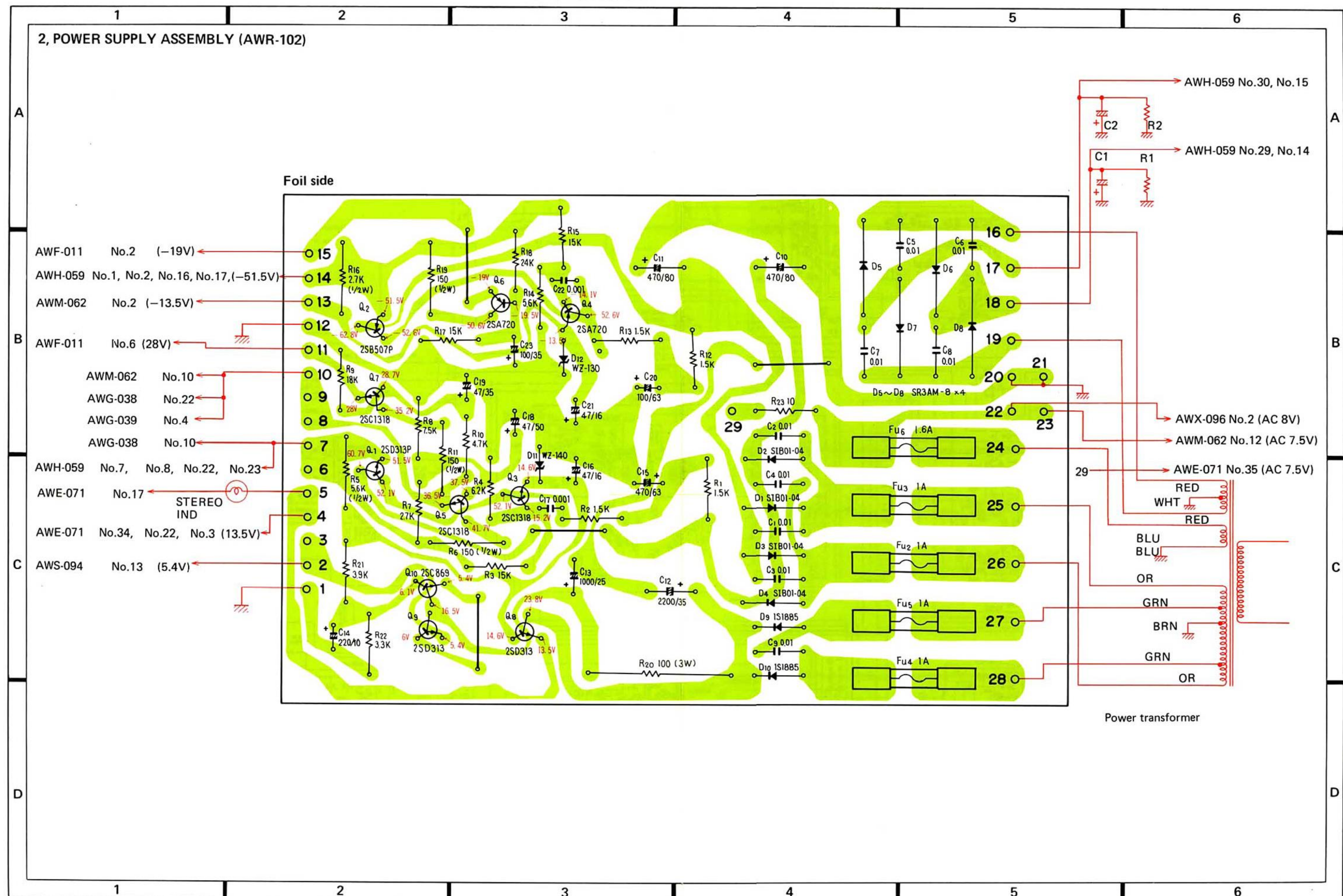
Symbol	Description	Part No.
R71	Carbon film 10	RD¼PS 100J
R72	Carbon film 10	RD¼PS 100J
VR1	Semi-fixed 10k-B	ACP-029
VR2	Semi-fixed 10k-B	ACP-029
VR3	Semi-fixed 100-B	ACP-019
VR4	Semi-fixed 100-B	ACP-019

Symbol	Description	Part No.
L1	Choke coil	ANH-203
L2	Choke coil	T63-009
	Heat sink	ANH-203

SEMICONDUCTORS

Symbol	Description	Part No.
Q1	Transistor	2SA726S-F
Q2	Transistor	2SA763S-5
Q3	Transistor	2SA726S-F
Q4	Transistor	2SA763S-5
Q5	Transistor	2SA726S-F
Q6	Transistor	2SA763S-5
Q7	Transistor	2SA818-Y
Q8	Transistor	2SA898-B
Q9	Transistor	2SA818-Y
Q10	Transistor	2SA898-B
Q11	Transistor	2SC1628-Y
Q12	Transistor	2SC1903-B
D1	Diode	2SC1628-Y
D2	Diode	2SC1903-B
D3	Diode	2SD381-M
D4	Diode	2SC1903-B
D5	Diode	2SD381-M
D6	Diode	2SB536-M
D7	Diode	2SB536-M
D8	Diode	1S2473
D9	Diode	1S2473
D10	Diode	1S2473
		STV4H
		STV4H
		1S1885
		1S1885
		1S1885
		1S1885





Parts List of Power Supply Assembly (AWR-101)

SEMICONDUCTORS

Symbol	Description	Part No.
Q1	Transistor	2SD313P-E
Q2	Transistor	2SB507P-E
Q3	Transistor	2SC1318-Q
Q4	Transistor	2SA720-Q
Q5	Transistor	2SC1318-Q
Q6	Transistor	2SA720-Q
Q7	Transistor	2SC1318-Q
Q8	Transistor	2SD313-E
Q9	Transistor	2SD313-E
Q10	Transistor	2SC869-C
D1	Diode	SIB01-04
D2	Diode	SIB01-04
D3	Diode	SIB01-04
D4	Diode	SIB01-04
D5	Diode	SR3AM-8
D6	Diode	SR3AM-8
D7	Diode	SR3AM-8
D8	Diode	SR3AM-8
D9	Diode	1S1885
D10	Diode	1S1885
D11	Zener diode	WZ-140
D12	Zener diode	WZ-130

RESISTORS

Symbol	Description	Part No.
R1	Carbon film 1.5k	RD½PS 152J
R2	Carbon film 1.5k	RD½PS 152J
R3	Carbon film 15k	RD½PS 153J
R4	Carbon film 6.2k	RD½PS 622J
R5	Carbon film 5.6k ½W	RD½PS 562J
R6	Carbon film 150 ½W	RD½PS 151J
R7	Carbon film 2.7k	RD½PS 272J
R8	Carbon film 7.5k	RD½PS 752J
R9	Carbon film 18k	RD½PS 183J
R10	Carbon film 4.7k	RD½PS 472J
R11	Carbon film 150 ½W	RD½PS 151J
R12	Carbon film 1.5k	RD½PS 152J
R13	Carbon film 1.5k	RD½PS 152J
R14	Carbon film 5.6k	RD½PS 562J
R15	Carbon film 15k	RD½PS 153J
R16	Carbon film 2.7k ½W	RD½PS 272J
R17	Carbon film 15k	RD½PS 153J
R18	Carbon film 24k	RD½PS 243J
R19	Carbon film 150 ½W	RD½PS 151J
R20	Metal oxide 100 3W	RS3P 101J
R21	Carbon film 3.9k	RD½PS 392J
R22	Carbon film 3.3k	RD½PS 332J
R23	Carbon film 10	RD½PS 100J

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
C9	Ceramic 0.01 150V	ACG-004
C10	Electrolytic 470 80V	ACH-038
C11	Electrolytic 470 80V	ACH-038
C12	Electrolytic 2,200 35V	ACH-060
C13	Electrolytic 1,000 25V	CEA 102P 25
C14	Electrolytic 220 10V	CEA 221P 10
C15	Electrolytic 470 63V	CEA 471P 63
C16	Electrolytic 47 16V	CEA 470P 16
C17	Ceramic 0.001 50V	CKDYF 102Z 50
C18	Electrolytic 47 50V	CEA 470P 50
C19	Electrolytic 47 35V	CEA 470P 35
C20	Electrolytic 100 63V	CEA 101P 63
C21	Electrolytic 47 16V	CEA 470P 16
C22	Ceramic 0.001 50V	CKDYF 102Z 50
C23	Electrolytic 100 35V	CEA 101P 35

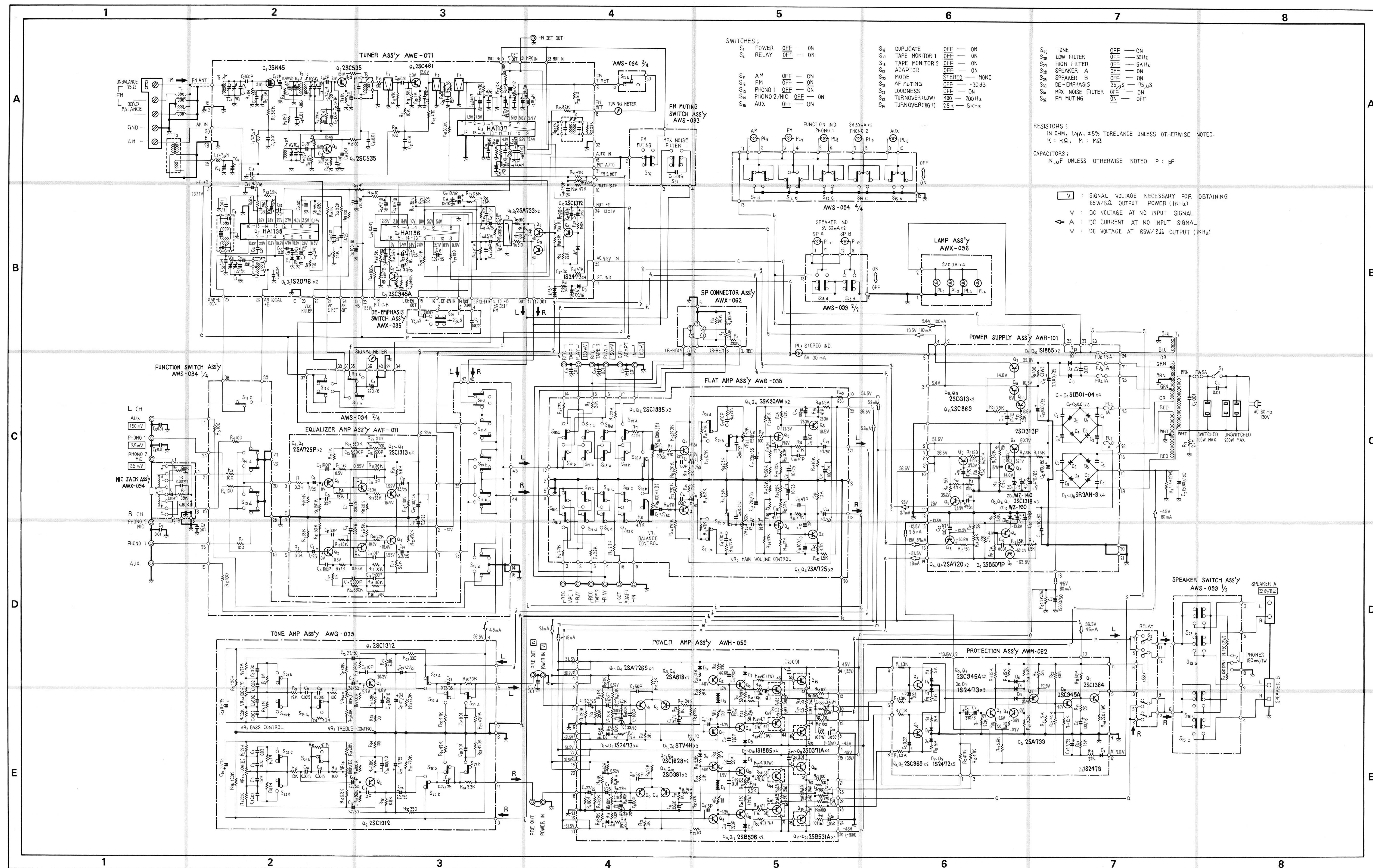
OTHERS

Symbol	Description	Part No.
	Heat sink	ANH-117
	Heat sink	ANH-207
	Transistor socket	AKH-002
	Mica wafer	AEC-043
	Fuse clip	AKR-013
	Fuse clip	AKR-030

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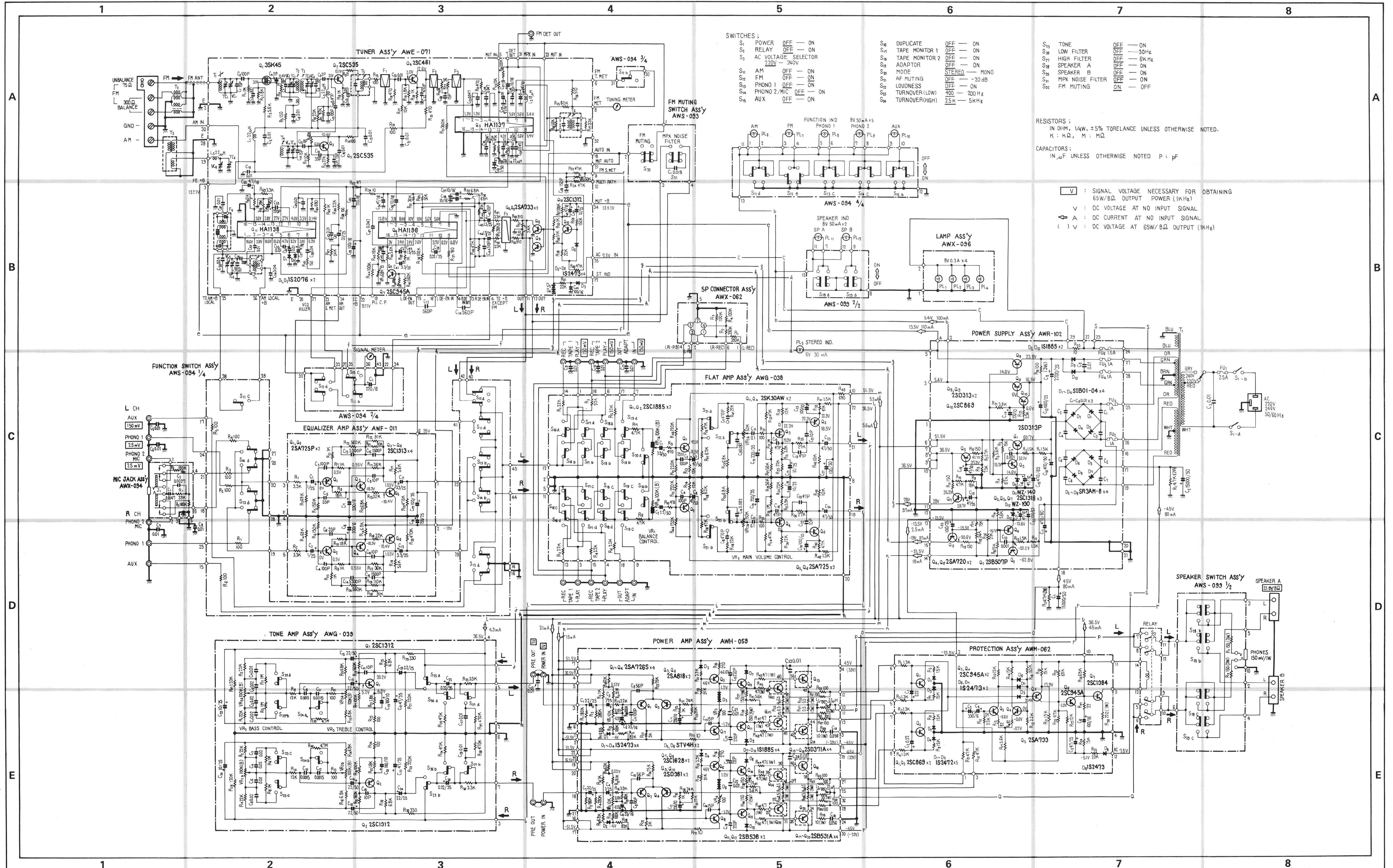
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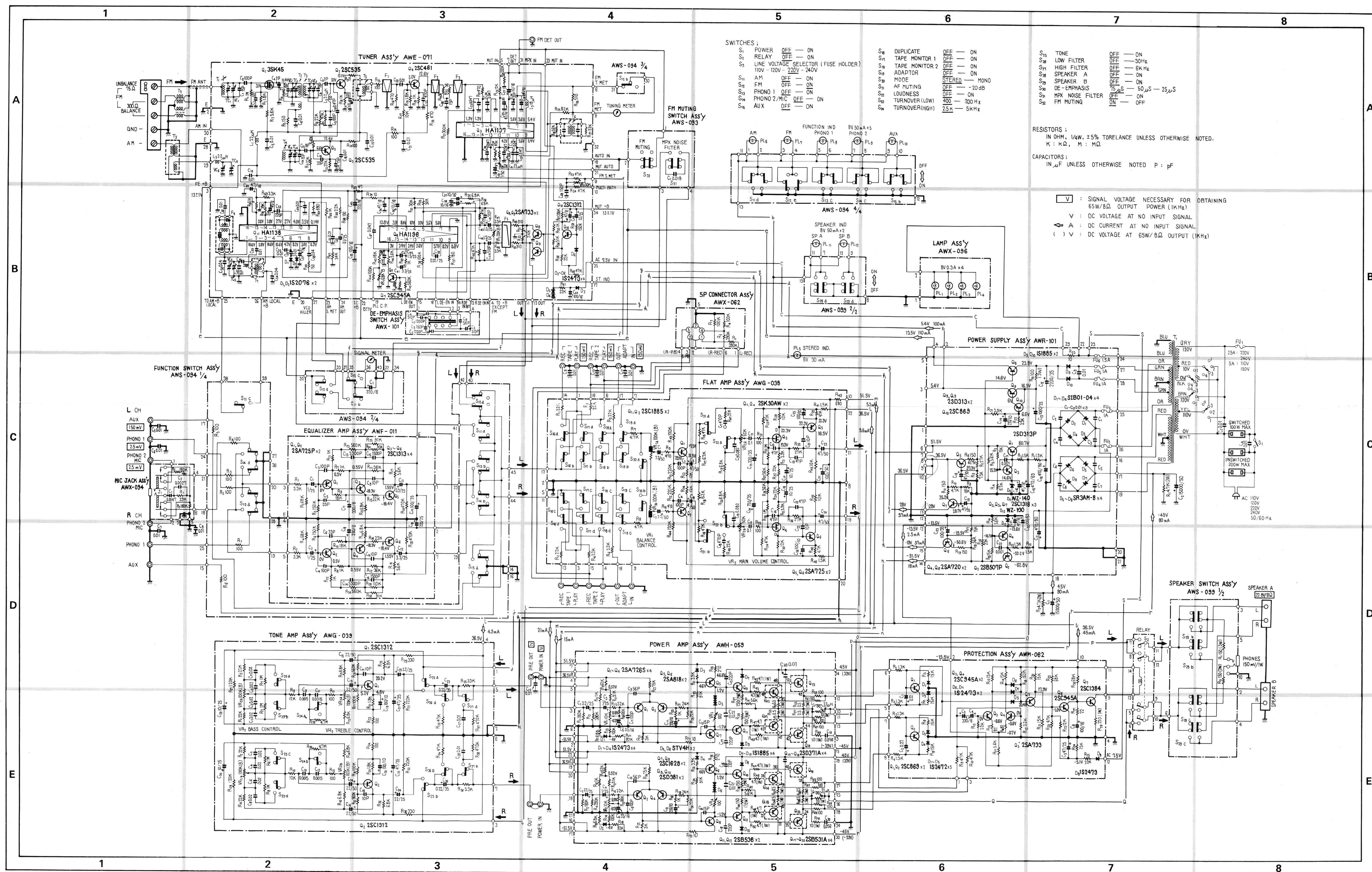
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HG



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