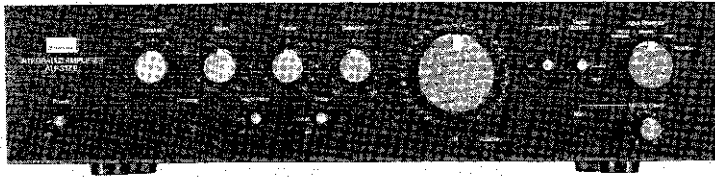


SERVICE MANUAL

INTEGRATED STEREO AMPLIFIER

SANSUI AU-117II AU-217II AU-317II



SANSUI ELECTRIC CO., LTD.

SPECIFICATIONS

● AU-117II

Power output

Min. RMS, both channels driven, from 20 to 20,000 Hz, with no more than 0.17 % harmonic distortion.

25 watts per channel into 8 ohms

Load impedance 8 ohms

Total harmonic distortion

. less than 0.17 % at or below rated min. RMS power output

Intermodulation distortion (70 Hz : 7 kHz = 4:1 SMPTE method) less than 0.17 % at or below rated min. RMS power output

Frequency response (at 1 watt)

. 10 to 40,000 Hz +0.5 dB -2 dB

Damping factor approximately 50 at 8 ohms load

RIAA curve deviation (PHONO)

. +0.5 dB -0.5 dB
(30 to 15,000 Hz)

Input sensitivity and impedance (1 kHz, for rated power output)

PHONO 2.5 mV/47 kilohms
(Max. input capability; 160 mV at 1 kHz, less than 0.2 % total harmonic distortion)

AUX, TAPE 150 mV/47 kilohms

Output level (1,000 Hz)

TAPE REC (pin jack) 150 mV/47 kilohms

Channel separation (1 kHz, at rated power output)

PHONO better than 65 dB
AUX better than 68 dB

Hum and noise (short-circuit, A-network)

PHONO 76 dB
AUX 95 dB

Controls

BASS ±12 dB (50 Hz)
TREBLE ±11 dB (15 kHz)
HIGH FILTER -3 dB (7 kHz), 6 dB/oct
LOUDNESS (-30 dB) 8 dB at 50 Hz
6 dB at 10 kHz

Power requirements

Power voltage 100, 120, 220, 240 V
(50/60 Hz)

For U.S.A. and Canada

. 120 V (60 Hz)

Power consumption 80 watts

Dimensions 430 mm (16-15/16") W

110 mm (4-3/8") H

340 mm (13-7/16") D

Weight 6.7 kg (14.8 lbs) net

8.2 kg (18.1 lbs) packed

● AU-217II

Power output

Min. RMS, both channels driven, from 20 to 20,000 Hz, with no more than 0.06 % harmonic distortion.

40 watts per channel into 8 ohms

Load impedance 8 ohms

Total harmonic distortion

. less than 0.06 % at or below rated min. RMS power output

Intermodulation distortion (70 Hz : 7 kHz = 4:1 SMPTE method) less than 0.06 % at or below rated min. RMS power output

Frequency response (at 1 watt)

. 10 to 50,000 Hz +0.5 dB -1.5 dB

Damping factor approximately 80 at 8 ohms load

RIAA curve deviation (PHONO)

. +0.5 dB -0.5 dB
(30 to 15,000 Hz)

to be continued ►

<AU-217II>

Input sensitivity and impedance (1 kHz, for rated power output)

PHONO 2.5 mV/47 kilohms
(Max. input capability; 200 mV at 1 kHz, less than 0.05 % total harmonic distortion)

AUX, TAPE 150 mV/47 kilohms

Output level (1,000 Hz)

TAPE REC (pin jack)
. 150 mV/47 kilohms

Channel separation (1 kHz, at rated power output)

PHONO better than 65 dB
AUX better than 68 dB

Hum and noise (short-circuit, A-network)

PHONO 76 dB
AUX 95 dB

Controls

BASS ±12 dB (50 Hz)

TREBLE ±11 dB (15 kHz)

PHONO SUBSONIC

. -3 dB (13 Hz), 6 dB/oct

HIGH FILTER -3 dB (7 kHz), 6 dB/oct

LOUDNESS (-30 dB)

. 8 dB at 50 Hz
. 6 dB at 10 kHz

Power requirements

Power voltage 100, 120, 220, 240 V
(50/60 Hz)

For U.S.A. and Canada

. 120 V (60 Hz)

Power consumption 120 watts

Dimensions 430 mm (16-15/16") W

110 mm (4-3/8") H

340 mm (13-7/16") D

Weight 8.3 kg (18.3 lbs) net

9.8 kg (21.6 lbs) packed

● AU-317II

Power output

Min. RMS, both channels driven, from 20 to 20,000 Hz,
with no more than 0.03 % harmonic distortion.

60 watts per channel into 8 ohms

Load impedance 8 ohms

Total harmonic distortion

. less than 0.03 % at or below rated
min. RMS power output

Intermodulation distortion (70 Hz : 7 kHz = 4:1 SMPTE
method) less than 0.03 % at or below rated
min. RMS power output

Frequency response (at 1 watt)

. 5 to 70,000 Hz +0 dB -1.8 dB

Damping factor (1 kHz, both channels driven)

. 70 into 8 ohms

RIAA curve deviation (PHONO, 20 Hz to 20 kHz)

. +0.2 dB, -0.2 dB

Input sensitivity and impedance (1 kHz)

PHONO 2.5 mV/47 kilohms
(Max. input capability; 220 mV at 1 kHz, less than 0.08 % total harmonic distortion)

AUX, TAPE 150 mV/47 kilohms

MIC 8 mV/10 kilohms

Output level and impedance (1,000 Hz)

TAPE REC 150 mV/47 kilohms

Channel separation (1 kHz, at rated power output)

PHONO better than 65 dB

AUX better than 75 dB

Hum and noise (short-circuit, A-network)

PHONO 77 dB

TAPE/AUX 100 dB

Controls

BASS ±11 dB (50 Hz)

TREBLE ±10 dB (15 kHz)

PHONO SUBSONIC

. -3 dB (13 Hz), 6 dB/oct

HIGH FILTER -3 dB (7 kHz), 6 dB/oct

LOUDNESS (VOLUME control: -30 dB)

. 9 dB at 50 Hz

. 7 dB at 10 kHz

Power requirements

Power voltage 100, 120, 220, 240 V
(50/60 Hz)

For U.S.A. and Canada

. 120 V (60 Hz)

Power consumption

Maximum consumption

. 180 watts

Rated consumption

. 180 watts 220 VA

Dimensions 430 mm (16-15/16") W

110 mm (4-3/8") H

340 mm (13-7/16") D

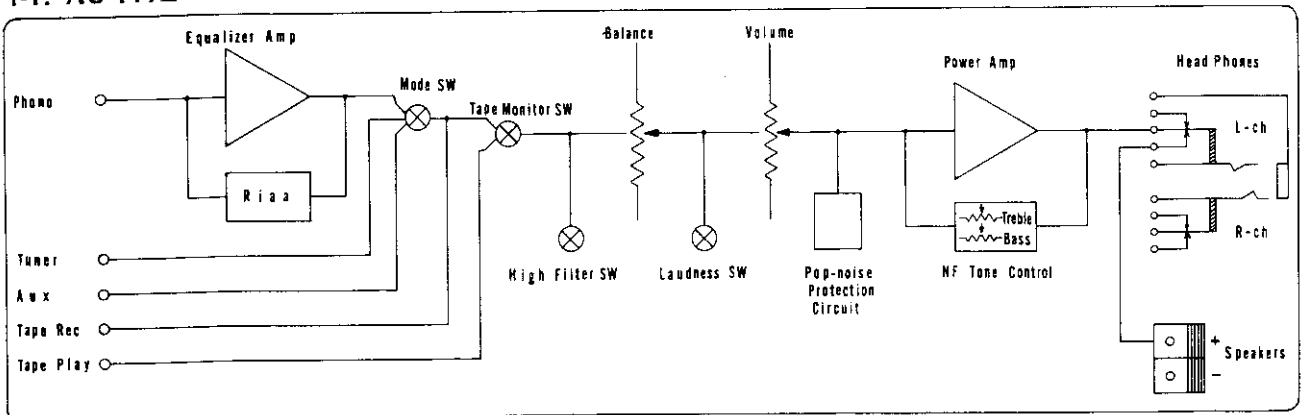
Weight 9.8 kg (21.6 lbs) net

11.3 kg (24.9 lbs) packed

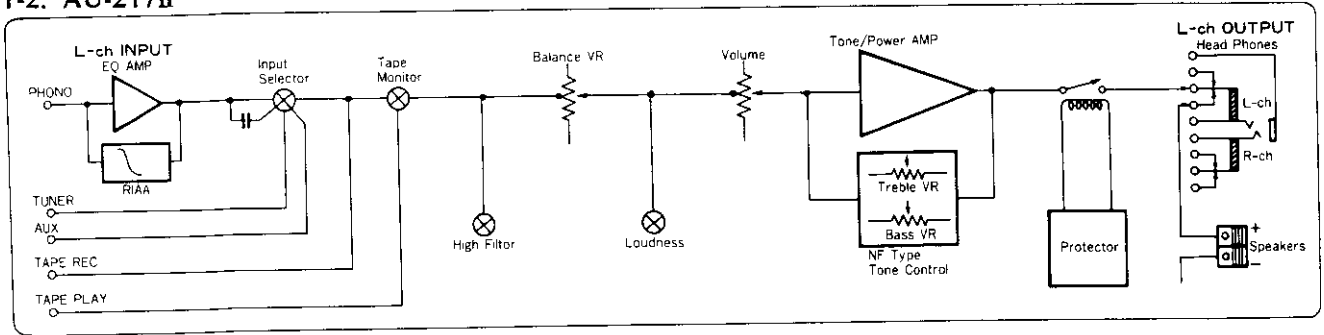
* Design and specifications subject to change without notice for improvements.

1. BLOCK DIAGRAM

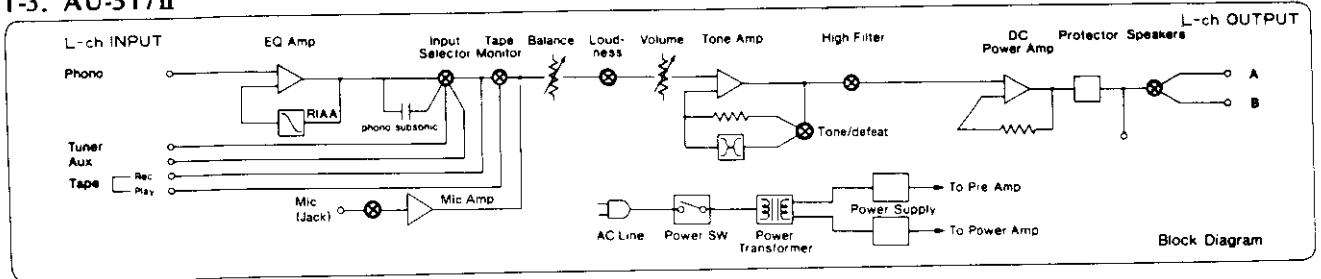
1-1. AU-117II



1-2. AU-217II



1-3. AU-317II



2. ADJUSTMENTS

- Note: 1. Master Volume Minimum
- 2. Room Temperature 18°C ~ 28°C (65°F ~ 83°F)

3. For adjustment, run the unit for more than 3 minutes after the power is switched on.

2-1. AU-117II

A) Bias Current adjustment (see the picture of Bottom View on page 7)

Note: 1. By turning adjustment volumes, VR05 and VR06 counterclockwise, the bias current is decreased.

| | EQUIPMENT | MEASURE OUTPUT | ADJUST | ADJUST FOR |
|------|---------------|--------------------------------------|-------------|------------|
| L-ch | DC Volt Meter | Between TP01 (+) and TP03 (-) F-2728 | VR05 F-2728 | 13 mV |
| R-ch | DC Volt Meter | Between TP02 (+) and TP04 (-) F-2728 | VR06 F-2728 | 13 mV |

2-3. AU-317II

A) DC 0V adjustment (see the picture of Top View on page 8)

Note: At first, set VR01, VR03 for L-CH and VR02, VR04 for R-CH to center position, then make the rough adjustment by VR03, VR04 and fine adjust by VR01, VR02.

| | EQUIPMENT | MEASURE OUTPUT | ADJUST | ADJUST FOR |
|------|---------------|--------------------------------------|-------------------|------------|
| L-ch | DC Volt Meter | Speaker Terminal between (+) and (-) | F-2754 VR03, VR01 | DC 0V |
| R-ch | DC Volt Meter | Speaker Terminal between (+) and (-) | F-2754 VR04, VR02 | DC 0V |

2-2. AU-217II

A) Bias Current adjustment (see the picture of Top View on page 8)

Note: 1. By turning adjustment volumes, VR01 and VR02 counterclockwise, the bias current is decreased.

| | EQUIPMENT | MEASURE OUTPUT | ADJUST | ADJUST FOR |
|------|---------------|------------------------------------|-------------|------------|
| L-ch | DC Volt Meter | TP Terminal (+) (-) of F-2760 VR01 | F-2760 VR01 | 7 mV |
| R-ch | DC Volt Meter | TP Terminal (+) (-) of F-2760 VR02 | F-2760 VR02 | 7 mV |

B) Bias Current adjustment (see the picture of Top View on page 8)

Note: 1. By turning adjustment volumes, VR05 and VR06 counterclockwise, the bias current is decreased.

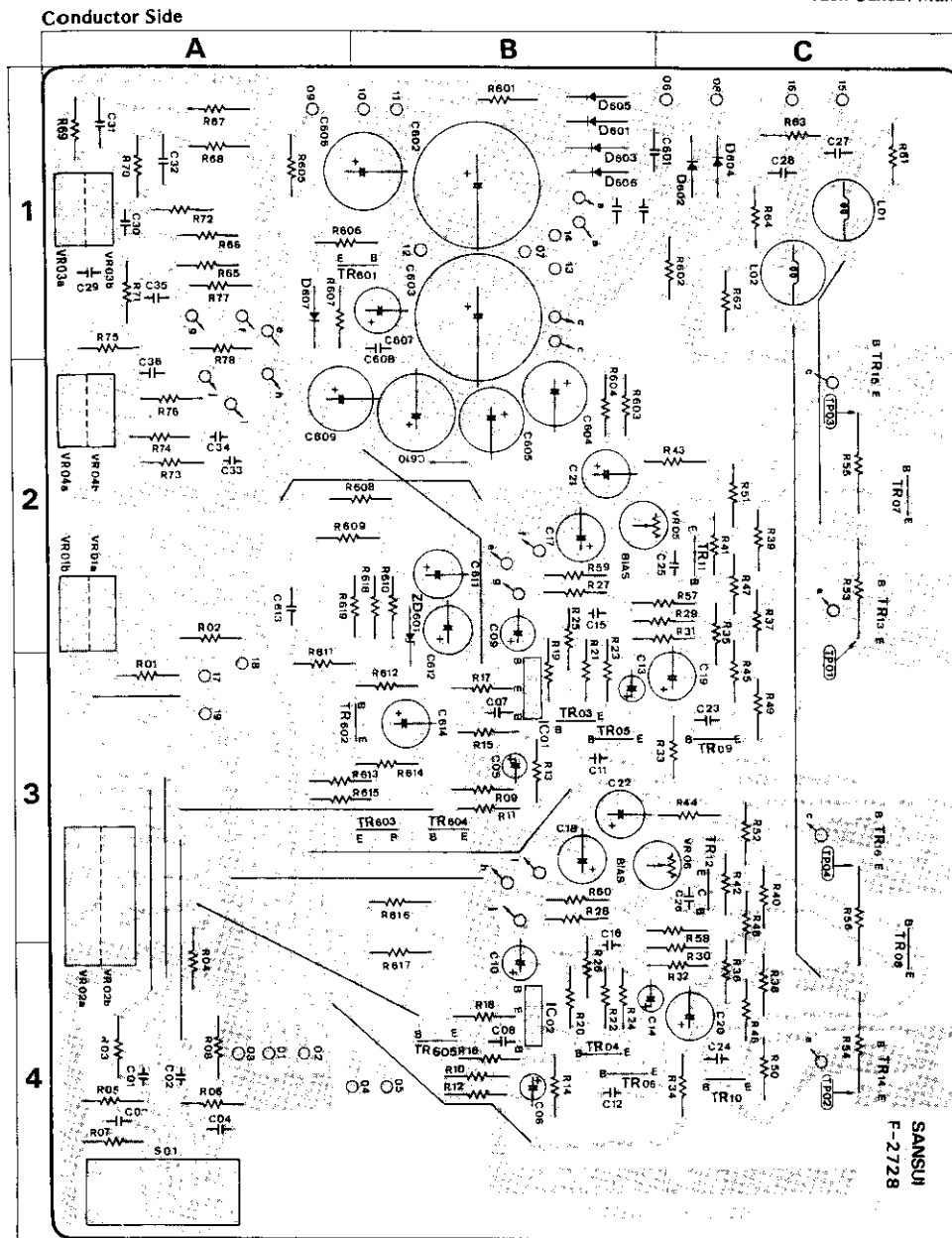
| | EQUIPMENT | MEASURE OUTPUT | ADJUST | ADJUST FOR |
|------|---------------|--------------------------------------|-------------|------------|
| L-ch | DC Volt Meter | Between TP01 (+) and TP03 (-) F-2754 | F-2754 VR05 | 13 mV |
| R-ch | DC Volt Meter | Between TP02 (+) and TP04 (-) F-2754 | F-2754 VR06 | 13 mV |

3. PARTS LOCATION & PARTS LIST

3-1. AU-117II

A) F-2728 Tone Control & Driver Circuit Board (Stock No. 7572221) (AU-117II Only)

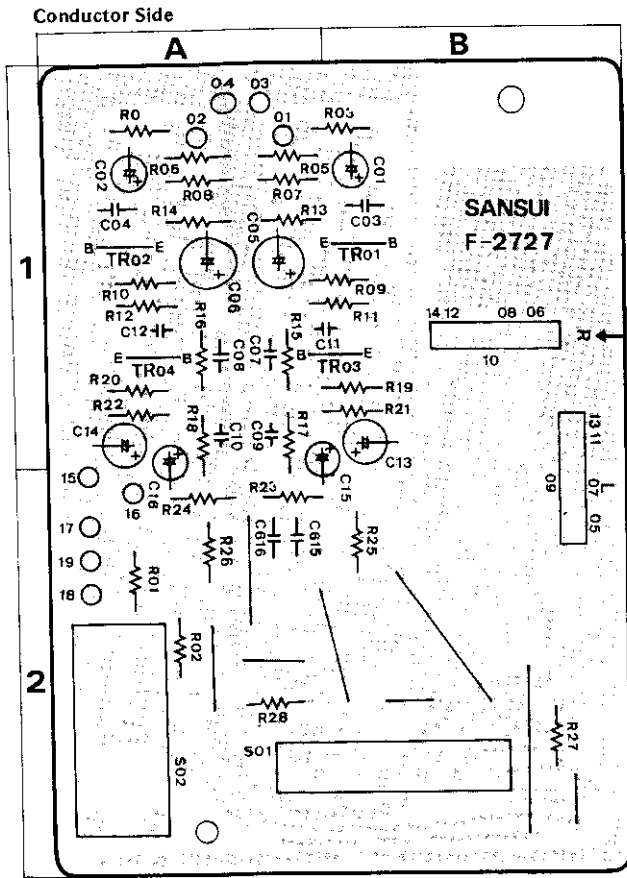
Since some of capacitors and resistors are omitted from parts lists in this Service Manual, refer to the common parts list for capacitors & resistors which was appended previously to each Sansui Manual



Parts List

| Parts No. | Stock No. | Description | Position | Parts No. | Stock No. | Description | Position | Parts No. | Stock No. | Description | Position |
|--------------------|-----------|----------------|----------|---------------------|-----------|-------------------|----------|-----------|-----------|-----------------------------|----------|
| •Transistor | | | | | | | | | | | |
| TR03_04 | 0306740_1 | 2SC1845 F | 3B,4B | D 603 | 0310340 | 10D1 | 1B | R 55_56 | 0212338 | 0.33Ω 2W N.I.R. | 2C,3C |
| TR05_06 | 0306740_1 | 2SC1845 F | 3B,4B | D 604 | 0310340 | 10D1 | 1C | R 603 | 0192681 | 680Ω 1/2W F.R. | 2B |
| TR07_08 | 0306070_1 | 2SC1313 F,G | 2C,4C | D 605 | 0310340 | 10D1 | 1B | R 607 | 0191220 | 22Ω 1/4W F.R. | 1A |
| TR09_10 | 0308520_1 | 2SD438 D,E | 3C,4C | D 606 | 0310340 | 10D1 | 1B | R 608 | 0191181 | 180Ω 1/4W F.R. | 2B |
| TR11_12 | 0303360_1 | 2SB560MP D,E | 2C,3C | D 607 | 0311160 | 1S2473D | 1A | L 01_02 | 4210290 | 1.5μH Inductor | 1C |
| TR13_14 | 0308541_2 | 2SC1986 O,Y | 2C,4C | •Zener Diode | | | | | | | |
| TR15_16 | 0300911_2 | 2SA771 (D),(Y) | 1C,3C | ZD601 | 0315970 | EQA01-13R | 2B | VR01 | 1015270_1 | 250kΩ MN x 2 | 2A |
| TR601 | 0306740_1 | 2SC1845 F,E | 1B | C 01_02 | 0620391 | 390pF 50V P.C. | 4A | VR02 | 1011120_1 | 250kΩ A x 2 | 3A |
| TR602 | 0305951_2 | 2SC945 Q,P | 3B | C 601 | 0655103 | 10000pF 500V C.C. | 3B | VR03 | 1015260_1 | 100kΩ C x 2 | 1A |
| TR603 | 0305951_2 | 2SC945 Q,P | 3B | C 602 | 0549010 | 6800μF 35V E.C. | 1B | VR04 | 1015260_1 | 100kΩ C x 2 | 2A |
| TR604 | 0305951_2 | 2SC945 Q,P | 3B | C 603 | 0549010 | 6800μF 35V E.C. | 1B | VR05_06 | 1035050 | 470Ω B Volume, bias current | 2B,3C |
| TR605 | 0305951_2 | 2SC945 Q,P | 4B | R 43_44 | 0191101 | 100Ω 1/4W F.R. | 2C,3C | S 01 | 1171020 | Lever Switch, loudness | 4A |
| •IC | | | | | | | | | | | |
| IC 01_02 | 0360290_1 | 2SA798 F,G | 3B,4B | R 45_46 | 0191221 | 220Ω 1/4W F.R. | 3C,4C | | | | |
| •Diode | | | | | | | | | | | |
| D 601 | 0310340 | 10D1 | 1B | R 47_48 | 0191221 | 220Ω 1/4W F.R. | 2C,3C | | | | |
| D 602 | 0310340 | 10D1 | 1C | R 49_50 | 0191689 | 6.8Ω 1/4W F.R. | 3C,4C | | | | |
| •Diode | | | | | | | | | | | |
| D 603 | 0310340 | 10D1 | 1B | R 51_52 | 0191689 | 6.8Ω 1/4W F.R. | 2C,3C | | | | |
| D 604 | 0310340 | 10D1 | 1C | R 53_54 | 0212338 | 0.33Ω 2W N.I.R. | 2C,4C | | | | |

B) F-2727 Equalizer Circuit Board (Stock No. 7551491)(AU-117II Only)



Parts List

| Parts No. | Stock No. | Description | Position |
|-------------|------------|-------------------------------|----------|
| •Transistor | | | |
| TR01, 02 | 0301090, 1 | 2SA992 F | 1B, 1A |
| TR03, 04 | 0306740, 1 | 2SC1845 F | 1B, 1A |
| S 01 | 1101800 | Rotary Switch, input selector | 2B |
| S 02 | 1171050 | Lever Switch, tape monitor | 2A |

Note:

The circuit boards, F-2726, F-2729 & F-2731 are not supplied as the assembled, the individual parts on the circuit boards, however are provided for orders.

C) F-2726 Input Terminal Circuit Board (AU-117II Only)

Parts List

| Stock No. | Description |
|-----------|-------------------------------------|
| 2200580 | 4P Input Terminal, tuner, aux. tape |
| 2200600 | 2P Input Terminal, phone |

D) F-2729 Filter Circuit Board (AU-117II Only)

Parts List

| Parts No. | Stock No. | Description |
|-----------|-----------|---------------------------|
| S 01 | 1171020 | Lever Switch, high filter |

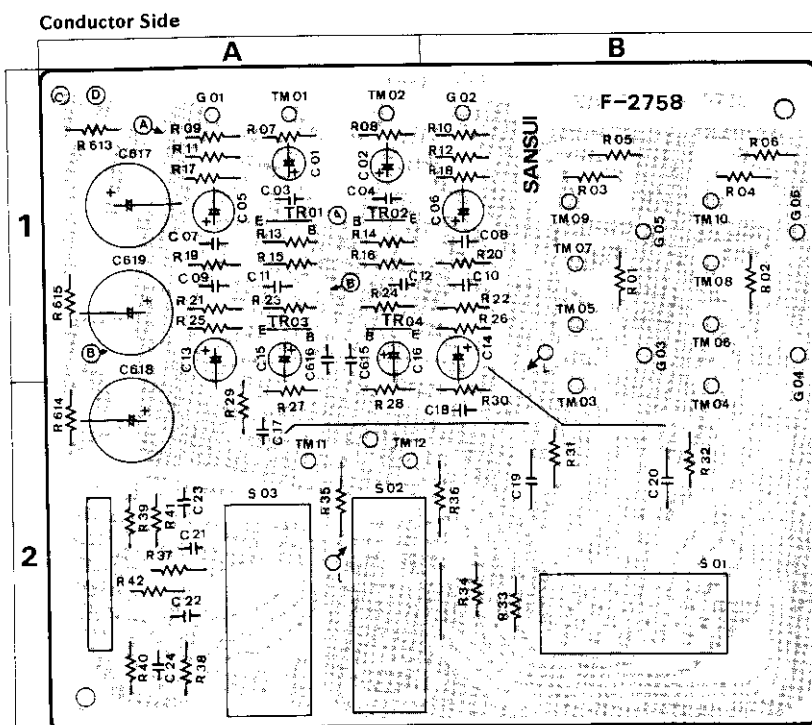
E) F-2731 Voltage Selector Circuit Board (AU-117II Only)

Parts List

| Parts No. | Stock No. | Description |
|-----------|-----------|---------------------|
| F 01 | 0432220 | 1A 250V AC Fuse |
| | 0432240 | 2A 250V AC Fuse |
| | 2310220 | Fuse Holder (Large) |

3-2. AU-217II

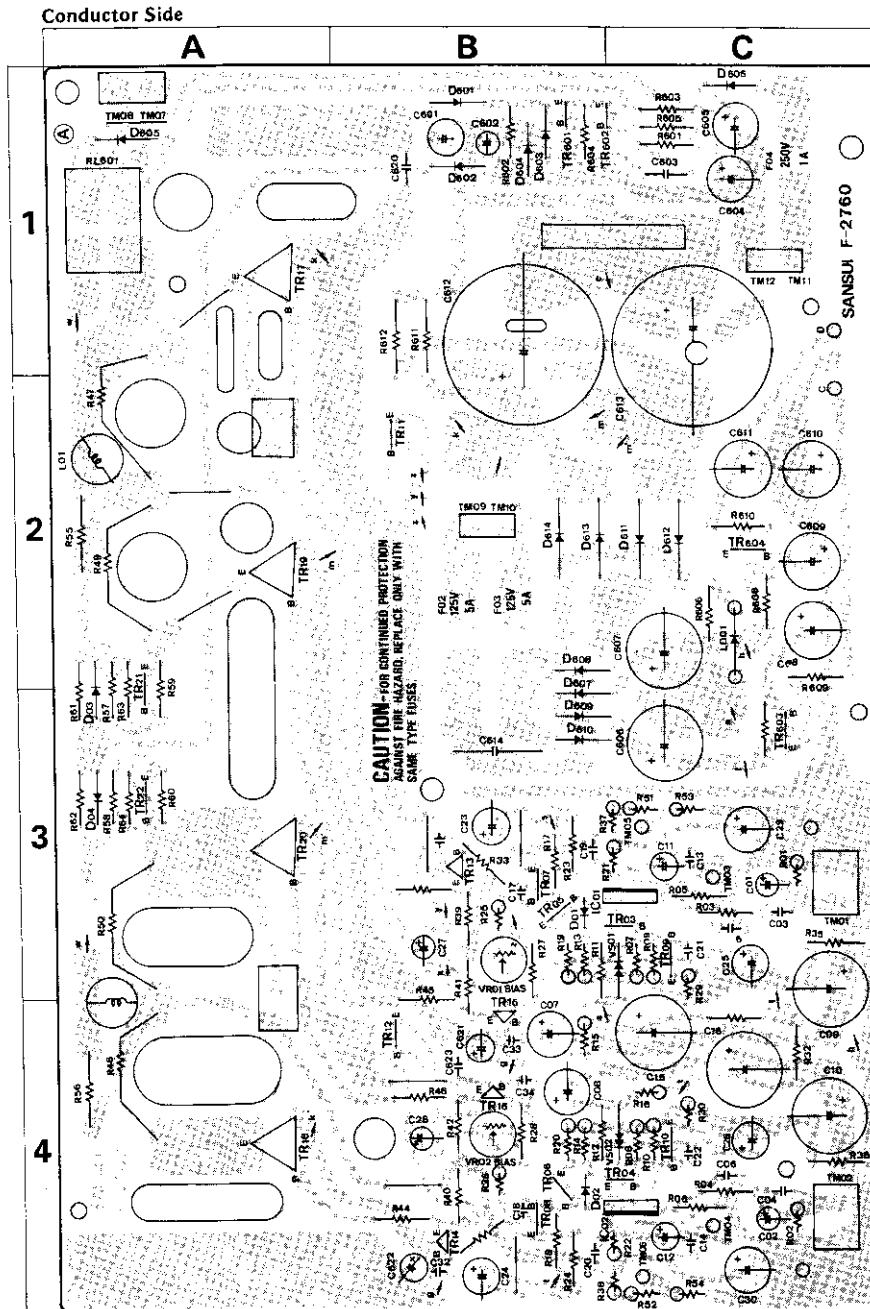
A) F-2758 Equalizer Circuit Board (Stock No. 7551481)(AU-217II Only)



Parts List

| Parts No. | Stock No. | Description | Position |
|-------------|------------|-------------------------------|----------|
| •Transistor | | | |
| TR01, 02 | 0301090, 1 | 2SA992 F | 1A |
| TR03, 04 | 0306740, 1 | 2SC1845 F | 1A |
| C 17, 18 | 0620821 | 620pF 50V P.C. | 2A, 2B |
| C 21, 22 | 0620391 | 390pF 50V P.C. | 2A |
| S 01 | 1102740 | Rotary Switch, input selector | 2B |
| S 02 | 1171030 | Lever Switch, tape monitor | 2A |
| S 04 | 1171020 | Lever Switch, loudness | |

B) F-2760 Power Amplifier Circuit Board (Stock No. 7572211) (AU-217II Only)



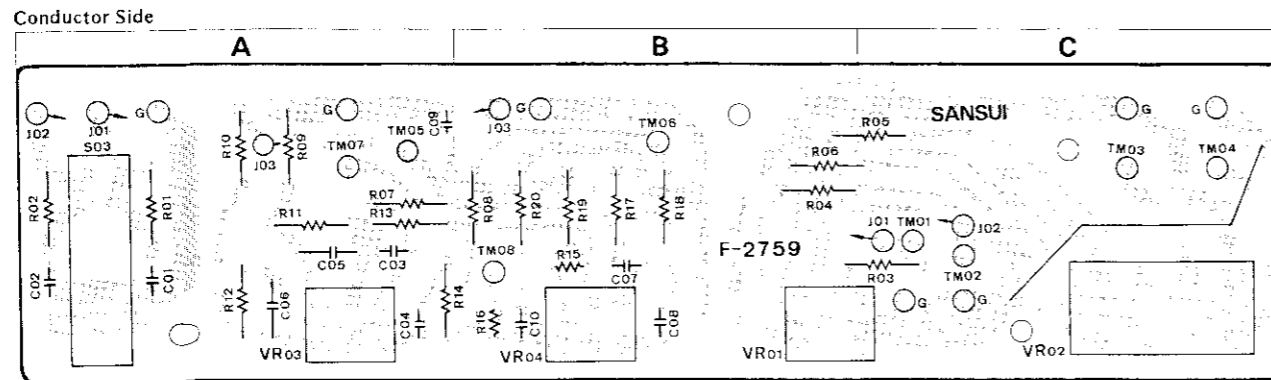
Parts List

| Parts No. | Stock No. | Description | Position |
|--------------------|------------|-----------------------------|-----------|
| •Transistor | | | |
| TR03, 04 | 0300470, 1 | 2SA726 F, G | 3C, 4C |
| TR05, 06 | 0306740, 1 | 2SC1845 F, E | 3B, 4B |
| TR07, 08 | 0301050, 1 | 2SA992 F, E | 3B, 4B |
| TR09, 10 | 0306740, 1 | 2SC1845 F, E | 3C, 4C |
| TR11, 12 | 0306970, 1 | 2SC1313 F, G | 2B, 4B |
| TR13, 14 | 0308520, 1 | 2SD438 D, E | 3B, 4B |
| TR15, 16 | 0303360, 1 | 2SB560MP D, E | 4B |
| TR17, 18 | 0308541, 2 | 2SD188A R, Q | 1A, 4A |
| TR19, 20 | 0303381, 2 | 2SB545A R, Q | 2A, 3A |
| TR21, 22 | 0305951, 2 | 2SC945 Q, P | 2, 3A, 3A |
| TR601 | 0305951, 2 | 2SC945 Q, P | 1B |
| TR602 | 0305951, 2 | 2SC945 Q, P | 1B, C |
| TR603 | 0308520, 1 | 2SD438 D, E | 3C |
| TR604 | 0303360, 1 | 2SB560MP D, E | 2C |
| •IC | | | |
| IC 01, 02 | 0360290, 1 | 2SA798 F, G | 3C, 4C |
| •Diode | | | |
| D 01, 02 | 0311160 | 1S2473D | 3B, 4B |
| D 03, 04 | 0311160 | 1S2473D | 3A |
| D 601 | 0310400 | 1N34A | 1B |
| D 602 | 0310400 | 1N34A | 1B |
| D 603 | 0310400 | 1N34A | 1B |
| D 604 | 0310400 | 1N34A | 1B |
| D 605 | 0310340 | 10D1 | 1A |
| D 606 | 0310340 | 10D1 | 1C |
| D 607 | 0301340 | 10D1 | 3B |
| D 608 | 0310340 | 10D1 | 2B |
| D 609 | 0310340 | 10D1 | 3B |
| D 610 | 0310340 | 10D1 | 3B |
| D 611 | 0311530 | 30D2 | 2C |
| D 612 | 0311530 | 30D2 | 2C |
| D 613 | 0311530 | 30D2 | 2B |
| D 614 | 0311530 | 30D2 | 2B |
| •Varistor | | | |
| VS 01, 02 | 0340150 | MV12 | 3C, 4C |
| C 05, 06 | 0620101 | 100pF 50V P.C. | 3C, 4C |
| C 612 | 0549111 | 6800uF 50V E.C. | 1B |
| C 613 | 0549111 | 6800uF 50V E.C. | 1C |
| C 614 | 0603227 | 0.022uF 125V M.C. | 3B |
| R 23, 24 | 0191820 | 82Ω 1/4W F.R. | 3B, 4B |
| R 29, 30 | 0193820 | 82Ω 1/4W F.R. | 3C, 4C |
| R 39, 40 | 0191221 | 220Ω 1/4W F.R. | 3B, 4B |
| R 41, 42 | 0191221 | 220Ω 1/4W F.R. | 3B, 4B |
| R 43, 44 | 0191689 | 6.8Ω 1/4W F.R. | 4B |
| R 45, 46 | 0191689 | 6.8Ω 1/4W F.R. | 4B |
| R 47, 48 | 0132338 | 0.33Ω 2W Ce.R. | 2A, 4A |
| R 49, 50 | 0132338 | 0.33Ω 2W Ce.R. | 2A, 3A |
| R 51, 52 | 0231302 | 3.0kΩ 1/2W M.R. | 3C, 4C |
| R 53, 54 | 0231241 | 240Ω 1/2W M.R. | 3C, 4C |
| R 606 | 0211222 | 2.2kΩ 1W N.I.R. | 2C |
| R 611 | 0103682 | 6.8kΩ 1/2W C.R. | 1B |
| R 612 | 0103682 | 6.8kΩ 1/2W C.R. | 1B |
| L 01, 02 | 4210290 | RF Coil 1.5uH | 2A |
| RL601 | 1150400 | Relay | 1A |
| | 1150480 | Relay | |
| | 1150490 | Relay | |
| VR01, 02 | 1036050 | 470Ω B Volume, bias current | 3B, 4B |
| F 02, 03 | 0432290 | 5A 150V AC Fuse | 2B |
| F 04 | 0432220 | 1A 250V AC Fuse | 1C |
| | 2030060 | Power Transistor Socket | |

Abbreviations

| | | | |
|--------|----------------------------|---------|-----------------------------------|
| C.R. | : Carbon Resistor | E.C. | : Electrolytic Capacitor |
| S.R. | : Solid Resistor | BP.E.C. | : Bi-Polar Electrolytic Capacitor |
| Ce.R. | : Cement Resistor | C.C. | : Ceramic Capacitor |
| M.R. | : Metal Film Resistor | Mi.C. | : Mica Capacitor |
| F.R. | : Fusing Resistor | O.C. | : Oil Capacitor |
| N.I.R. | : Non-Inflammable Resistor | P.C. | : Polystyrene Capacitor |
| M.C. | : Mylar Capacitor | T.C. | : Tantalum Capacitor |

C) F-2759 Tone Control Circuit Board (Stock No. 7562791) (AU-217II Only)



Parts List

| Parts No. | Stock No. | Description | Position | Parts No. | Stock No. | Description | Position |
|-----------|------------|---------------------------------|----------|-----------|------------|-------------------------------|----------|
| VR01 | 1015270, 1 | 25kΩ MIN x 2 Volume, Balance | B | VR04 | 1015260, 1 | 100kΩ C x 2 Volume, treble | B |
| VR02 | 1011120, 1 | 250kΩ A x 2 Volume, master | C | S 04 | 1171020 | Lever Switch, Hi filter | |
| VR03 | 1015260, 1 | 100kΩ C x 2 Volume, bass | A | | | | |

Note: The circuit boards, F-2757, F-2755 & F-2731 are not supplied as the assembled, the individual parts on the circuit boards, however are provided for orders.

D) F-2757 Input Terminal Circuit Board (AU-217II Only)

| Stock No. | Description |
|-----------|----------------------------------|
| 2200650 | Input Terminal, tuner, aux. tape |
| 2200660 | Input Terminal, phono |

E) F-2755 Output Connection Circuit Board (AU-217II Only)

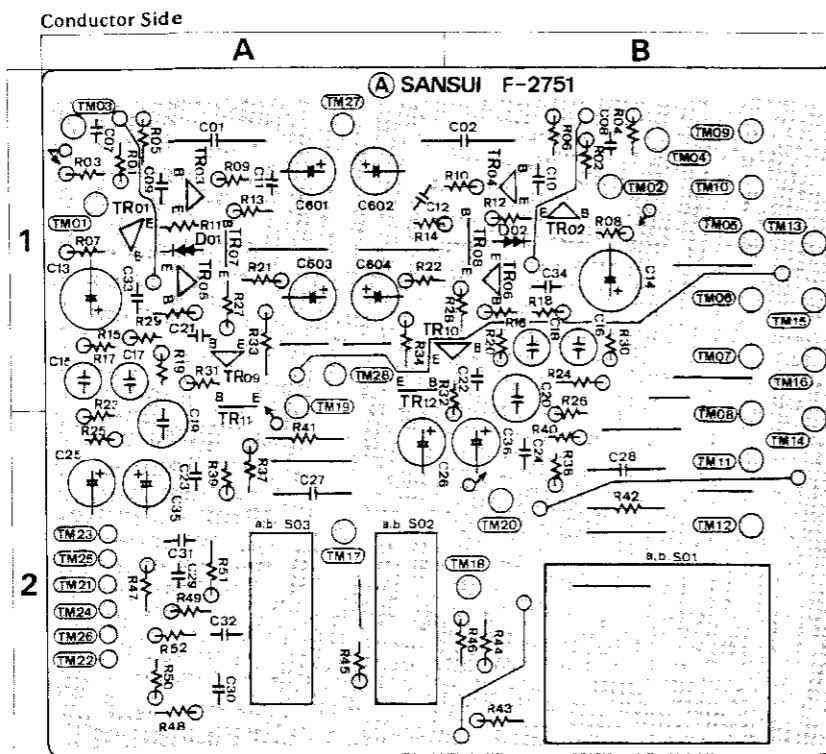
| Parts No. | Stock No. | Description |
|-----------|-----------|-----------------|
| R 01, 02 | 0211190 | 10Ω 1W N.I.R. |
| R 03, 04 | 0211271 | 270Ω 1W N.I.R. |
| J 01 | 2430350 | Jack, headphone |

F) F-2731 Voltage Selector Circuit Board (AU-217II Only)

| Parts No. | Stock No. | Description |
|-----------|-----------|---------------------|
| F 01 | 0432240 | 2A 250V AC Fuse |
| | 0432260 | 3A 250V AC Fuse |
| | 2310220 | Fuse Holder (Large) |

3-3. AU-317II

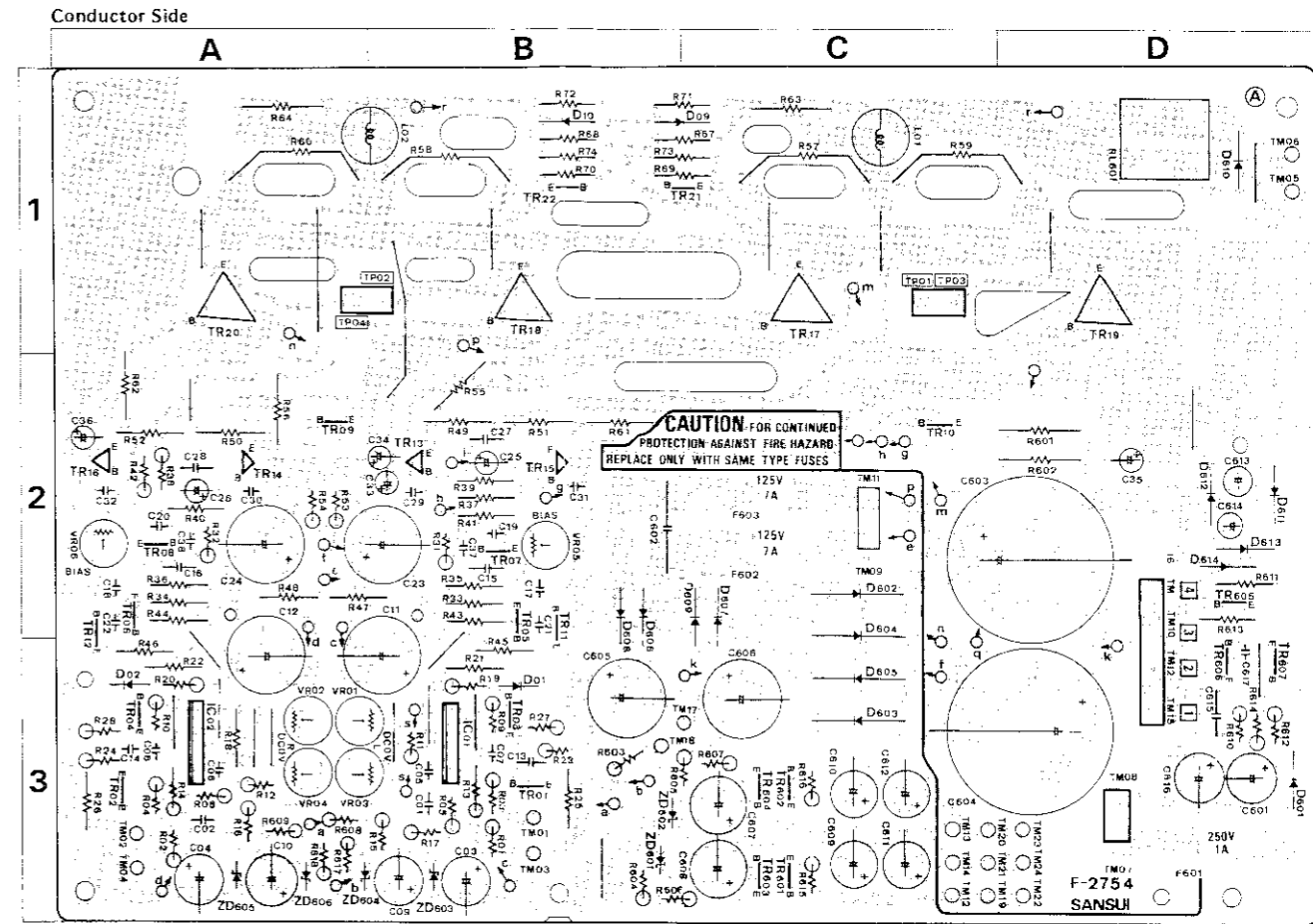
A) F-2751 Equalizer Circuit Board (Stock No. 7551501) (AU-317II Only)



Parts List

| Parts No. | Stock No. | Description | Position |
|-------------|------------|-------------------------------|----------|
| •Transistor | | | |
| TR01, 02 | 0301090, 1 | 2SA992 F, E | 1A, 1B |
| TR03, 04 | 0301170, 1 | 2SA991 F, E | 1A, 1B |
| TR05, 06 | 0301090, 1 | 2SA992 F, E | 2B, 2A |
| TR07, 08 | 0300760, 1 | 2SA917 F, G | 2A, 2C |
| TR09, 10 | 0300770, 1 | 2SC1313 F, G | 2A, 2C |
| TR11, 12 | 0306360, 1 | 2SC1951 F, 2 | 2B, 2A |
| TR13, 14 | 0308611, 2 | 2SD357 C, E | 2B, 2A |
| TR15, 16 | 0303441, 2 | 2SB527 D, E | 2B, 2A |
| TR17, 18 | 0306571, 2 | 2SC2261 O, Y | 1C, 1B |
| TR19, 20 | 0300951, 2 | 2SA981 O, Y | 1D, 1A |
| TR21, 22 | 0306951, 2 | 2SC945 D, P | 1C, 1B |
| TR601 | 0308611, 2 | 2SD357 D, E | 3C |
| TR602 | 0303441, 2 | 2SB527 C, E | 3C |
| TR603 | 0306740, 1 | 2SC1845 F, E | 3C |
| TR604 | 0301390, 1 | 2SA992 F, E | 3C |
| TR605 | 0306951, 2 | 2SC945 Q, P | 2D |
| TR606 | 0306951, 2 | 2SC945 Q, P | 3D |
| TR607 | 0306951, 2 | 2SC945 Q, P | 3D |
| •Varistor | | | |
| D 01, 02 | 0340150 | MV12 | 1A, 1B |
| C 01, 02 | 0602109 | 1.0μF 100VW M.C. | 1A, 1B |
| C 07, 08 | 0620101 | 100pF 50V P.C. | 1A, 1B |
| C 11, 12 | 0620101 | 100pF 50V P.C. | 1A |
| C 15, 16 | 0620151 | 150pF 50V P.C. | 1A, 1B |
| C 17, 18 | 0625272 | 2700pF 50VW P.C. | 1A, 1B |
| C 19, 20 | 0625103 | 10000pF 50VW P.C. | 2A, 1B |
| C 31, 32 | 0620391 | 390pF 50V P.C. | 2A |
| R 15, 16 | 0231561 | 560Ω 1/2W M.R. | 1A, 1B |
| R 17, 18 | 0231220 | 22Ω 1/2W M.R. | 1A, 1B |
| R 19, 20 | 0231273 | 27kΩ 1/2W M.R. | 1A, 1B |
| R 23, 24 | 0231304 | 300kΩ 1/2W M.R. | 2A, 1B |
| R 25, 26 | 0231153 | 15kΩ 1/2W M.R. | 2A, 2B |
| R 33, 34 | 0103987 | 3.9kΩ 1/2W C.H. | 1A |
| S 01 | 1102740 | Rotary Switch, input selector | 1B |
| S 02 | 1171030 | Lever Switch, tape monitor | 2A |
| S 03 | 1171020 | Lever Switch, loudness | 2A |

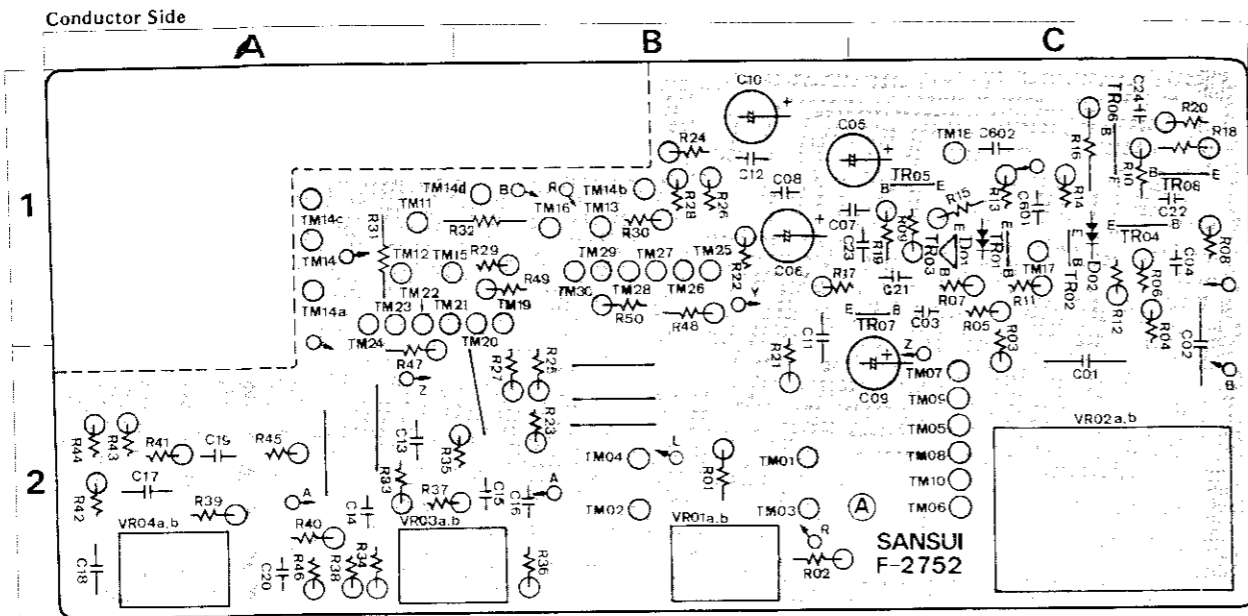
B) F-2754 Power Amplifier Circuit Board (Stock No. 7572231) (AU-317II Only)



Parts List

| Parts No. | Stock No. | Description | Position | Parts No. | Stock No. | Description | Position | Parts No. | Stock No. | Description | Position |
|-------------|------------|--------------|----------|--------------|-----------|-------------------|----------|-----------|-----------|----------------------------|----------|
| •Transistor | | | | | | | | | | | |
| TR01, 02 | 0306740, 1 | 2SC1845 F, E | 3B, 3A | D 09, 10 | 0311160 | 1S2473D | 1B | R 35, 36 | 0191820 | 82Ω 1/4W F.R. | 2B, 2A |
| TR03, 04 | 0306740, 1 | 2SC1845 F, E | 3B, 3A | D 501 | 0310340 | 10D1 | 30 | R 45, 46 | 0191820 | 82Ω 1/4W F.R. | 3B, 3A |
| TR05, 06 | 0301090, 1 | 2SA992 F, E | 2B, 2A | D 602 | 0311570 | ERD03-02H | 2C | R 57, 58 | 0136338 | 0.33Ω 5W Co.R. | 1C, 1B |
| TR07, 08 | 0300760, 1 | 2SA917 F, G | 2A, 2A | D 603 | 0311570 | ERD03-02H | 2C | R 59, 60 | 0136338 | 0.33Ω 5W Co.R. | 1C, 1A |
| TR09, 10 | 0300770, 1 | 2SC1313 F, G | 2A, 2C | D 604 | 0311570 | ERD03-02H | 2C | F 63, 64 | 0212229 | 2.2Ω 2W N.I.R. | 1C, 1A |
| TR11, 12 | 0306360, 1 | 2SC1951 F, 2 | 2B, 2A | D 605 | 0311570 | ERD03-02H | 3C | R 601 | 0103822 | 8.2kΩ 1/2W C.R. | 2D |
| TR13, 14 | 0308611, 2 | 2SD357 C, E | 2B, 2A | D 606 | 0310340 | 10D1 | 2B | R 602 | 0103822 | 8.2kΩ 1/2W C.R. | 2D |
| TR15, 16 | 0303441, 2 | 2SB527 D, E | 2B, 2A | D 607 | 0310340 | 10D1 | 2C | R 603 | 0202272 | 2.7kΩ 2W N.I.R. | 3B |
| TR17, 18 | 0306571, 2 | 2SC2261 O, Y | 1C, 1B | D 608 | 0310340 | 10D1 | 2C | L 01, 02 | 4210290 | RF Coil 1.5μH | 1C, 1B |
| TR19, 20 | 0300951, 2 | 2SA981 O, Y | 1D, 1A | D 610 | 0310340 | 10D1 | 1D | | | | |
| TR21, 22 | 0306951, 2 | 2SC945 D, P | 1C, 1B | D 611 - 14 | 0310400 | 1N34A | 2D | | | | |
| TR601 | 0308611, 2 | 2SD357 D, E | 3C | | | | | | | | |
| TR602 | 0303441, 2 | 2SB527 C, E | 3C | •Zener Diode | | | | | | | |
| TR603 | 0306740, 1 | 2SC1845 F, E | 3C | ZD 601 | 0316110 | EQA01-30R | 3B | R1, 01 | 1150400 | Relay | |
| TR604 | 0301390, 1 | 2SA992 F, E | 3C | ZD 602 | 0316110 | EQA01-30R | 3B | | 1150460 | Relay | |
| TR605 | 0306951, 2 | 2SC945 Q, P | 2D | ZD 603, 04 | 0316020 | EQA01-18R | 3A, 3A | | 1150490 | Relay | |
| TR606 | 0306951, 2 | 2SC945 Q, P | 3D | ZD 605, 06 | 0316020 | EQA01-18R | 3A, 3A | VR01, 02 | 1034230 | 2.2kΩ B Volume, DC 0V | 3A |
| TR607 | 0306951, 2 | 2SC945 Q, P | 3D | | | | | VR03, 04 | 1034150 | 100Ω B Volume, DC 0V | 3A |
| •IC | | | | | | | | | | | |
| IC 01, 02 | 0370281, 2 | 2SK109 D, F | 3B, 3A | C 01, 02 | 0620101 | 100pF 50V P.C. | 3B, 3A | VR05, 06 | 1035070 | 1kΩ B Volume, bias current | 2B |
| •Diodes | | | | | | | | | | | |
| D 31, 02 | 0311160 | 1S2473D | 3B, 3A | C 07, 08 | 0620271 | 270pF 50V P.C. | 1B, 3A | F 601 | 0432220 | 1A 250V AC Fuse | 3D |
| | | | | C 602 | 0605477 | 0.047μF 250V M.C. | 2B | F 602, 03 | 0432500 | 7A 125V AC Fuse | 2C |
| | | | | C 603 | 0349905 | 10000pF 50V E.C. | 2D | | 2030060 | Power Transistor Socket | |
| | | | | C 604 | 0349905 | 10000pF 50V E.C. | 3D | | | | |
| | | | | C 901, 02 | 0602109 | 1.0μF 100VW M.C. | | | | | |

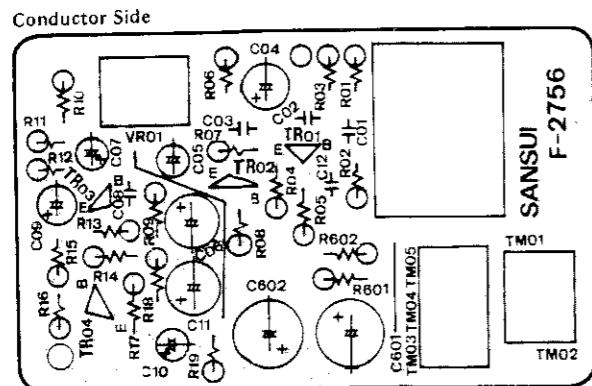
C) F-2752 Tone Control Circuit Board (Stock No. 7562801)(AU-317II Only)



Parts List

| Parts No. | Stock No. | Description | Position | Parts No. | Stock No. | Description | Position | Parts No. | Stock No. | Description | Position |
|-------------|------------|--------------|----------|-----------|------------|-----------------|----------|-----------|------------|-------------|----------|
| •Transistor | | | | •Varistor | | | | VR02 | 1090290 | 150kΩ B x 2 | 2C |
| TR01, 02 | 0301090, 1 | 2SA992 F, E | 1C | D 01, 02 | 0340150 | MV12 | 1C | VR03 | 1015310, 1 | 100kΩ C x 2 | 2A |
| TR03, 04 | 0301170, 1 | 2SA991 F, E | 1C | R 17, 18 | 0193680 | 68Ω 1/4W F.R. | 1B, 1C | VR04 | 1015310, 1 | 100kΩ C x 2 | 2A |
| TR05, 06 | 0301170, 1 | 2SA991 F, E | 1C | VR01 | 1015320, 1 | 250kΩ MN x 2 | 2B | | | | |
| TR07, 08 | 0306740, 1 | 2SC1845 F, E | 1C | | | Volume, balance | | | | | |

D) F-2756 Mic Amp Circuit Board (Stock No. 7610431)(AU-317II Only)



Parts List

| Parts No. | Stock No. | Description |
|-------------|------------|-------------------------------|
| •Transistor | | |
| TR01 | 0301090, 1 | 2SA992 F, E |
| TR02 | 0306740, 1 | 2SC1845 F, E |
| TR03 | 0301090, 1 | 2SA992 F, E |
| TR04 | 0306740, 1 | 2SC1845 F, E |
| R 601, 602 | 0193121 | 120Ω 1/4W F.R. |
| VR01 | 1090270 | 20kΩ (A) Volume, mixing level |
| J 01 | 2430330 | Jack Mic |

Note: The circuit boards, F-2750, F-2768, F-2753 & F-2731 are not supplied as the assembled, the individual parts on the circuit boards, however are provided for orders.

E) F-2750 Input Terminal Circuit Board (AU-317II Only)

Parts List

| Parts No. | Stock No. | Description |
|-----------|-----------|----------------------------------|
| 2200580 | | Input Terminal, tuner, aux, tape |
| 2200600 | | Input Terminal, phone |

F) F-2768 Output Connection Circuit Board (AU-317II Only)

Parts List

| Parts No. | Stock No. | Description |
|-----------|-----------|-----------------|
| R 01, 02 | 0212221 | 220Ω 2W N.I.R. |
| R 03, 04 | 0202100 | 10Ω 2W N.I.R. |
| J 01 | 2430350 | Jack, headphone |

G) F-2753 Filter Circuit Board(AU-317II Only)

Parts List

| Parts No. | Stock No. | Description |
|-----------|-----------|---------------------------|
| S 01 | 1171040 | Lever Switch, tone defeat |
| S 02 | 1171020 | Lever Switch, High filter |

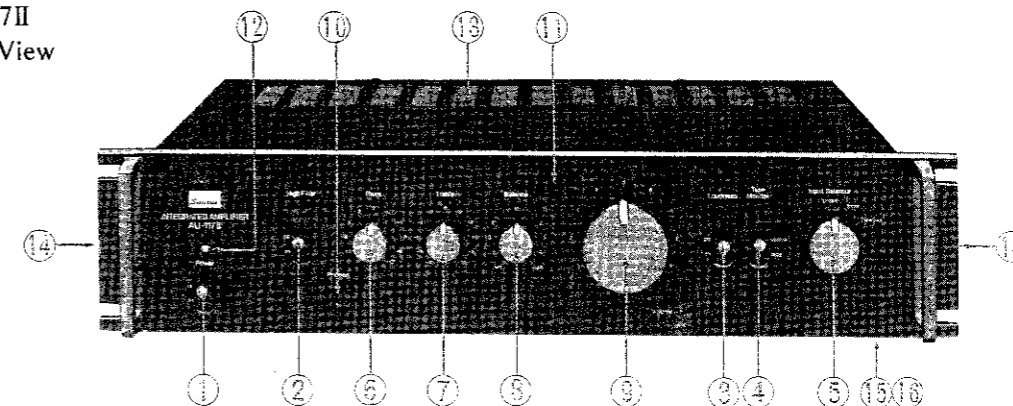
H) F-2731 Voltage Selector Circuit Board (AU-317II Only)

Parts List

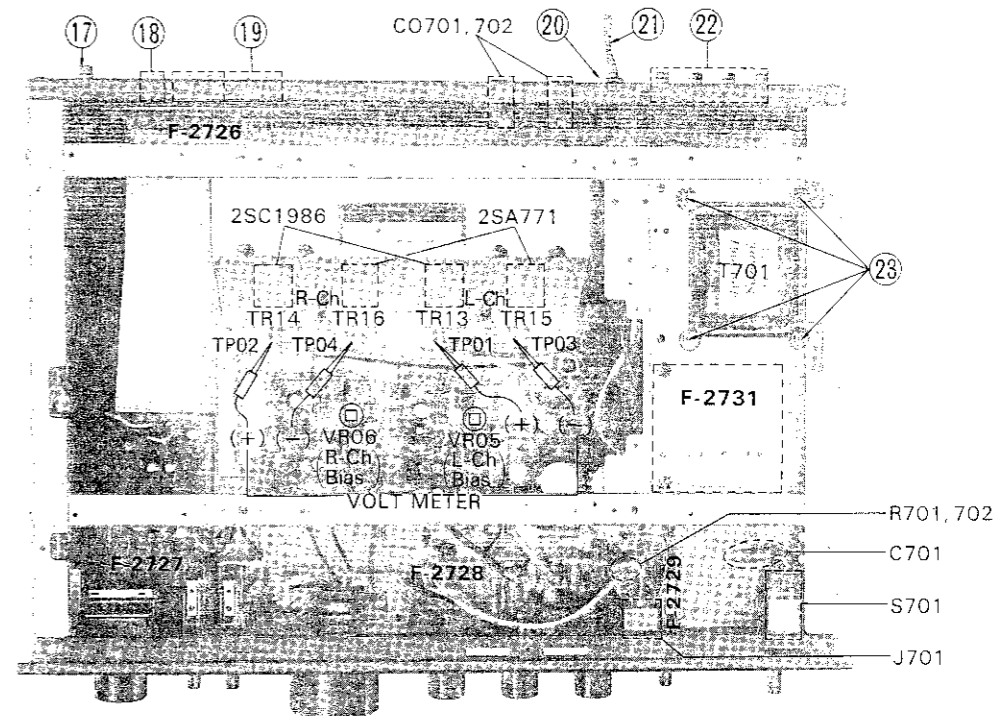
| Parts No. | Stock No. | Description |
|-----------|-----------|---------------------|
| F 01 | 0432260 | 3A 250V AC Fuse |
| | 0422280 | 5A 25V AC Fuse |
| | 2310220 | Fuse Holder (Large) |

4. OTHER PARTS

4-1. AU-117II Front View



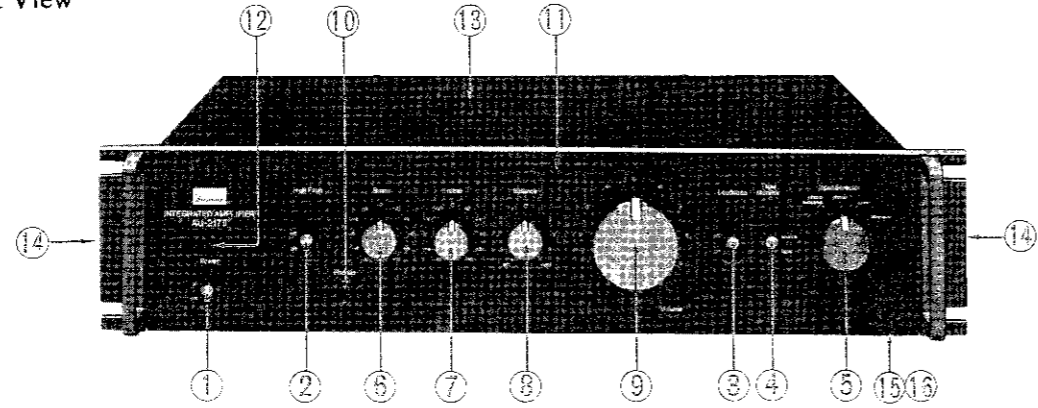
Bottom View



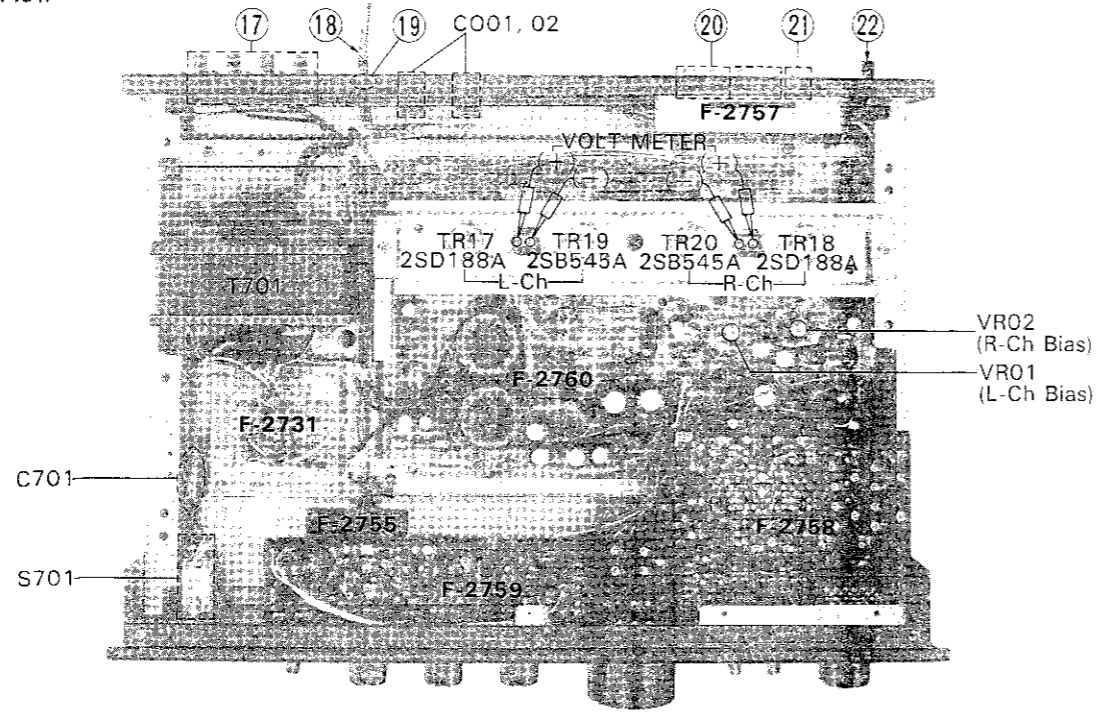
Parts List <Front & Bottom View>

| Parts No. | Stock No. | Description | Parts No. | Stock No. | Description | Parts No. | Stock No. | Description |
|-----------|------------|-------------------------------|-----------|------------|----------------------------------|-------------|------------|-------------------|
| 1 | 5328812 | Lever Switch Knob | 9 | 5318910 | Volume Knob | •Transistor | | |
| | 1172000 | Lever Switch, power | | 1011120, 1 | 250kΩ x 2 Volume | TR13, 14 | 0306541, 2 | 2SC1986 Q, Y |
| 2 | 5326612 | Lever Switch Knob | | 5048050 | Masking Sheet (A) | TR15, 16 | 0300911, 2 | 2SA771 Q, Y |
| | 1171020 | Lever Switch, high filter | | 5328962 | Plate For VR (M8) | | | |
| 3 | 5326612 | Lever Switch Knob | 10 | 2430300 | Head Phone Jack | C 701 | 0658911 | 0.01μF 175V C.C. |
| | 1171020 | Lever Switch, loudness | 11 | 7068250 | Front Panel Jack | | | |
| | 5326612 | Lever Switch Knob | | 0319120 | LED | R 701, 702 | 0201221 | 220Ω 1W N.I.R. |
| 4 | 1171050 | Lever Switch, tape monitor | 12 | 0319120 | LED | | | |
| | 5318920 | M-10 TY Knob | 13 | 5006920 | Bonnet | CO701, 702 | 2450070 | AC Outlet |
| 5 | 1101800 | Rotary Switch, input selector | 14 | 5396700 | Rack-mounting Adaptor (each) | | | |
| | 5048040 | Masking Sheet (B) | 15 | 3058773 | Bottom Plate | T 701 | 4003060 | Power Transformer |
| | 5318930 | S-14 TY Knob | 16 | 5507350 | Leg | J 701 | 2430300 | Head Phone Jack |
| | 1015250, 1 | 100kΩ (C) x 2 Bass Volume | 17 | 2200150 | Ground Terminal | S 701 | 1172000 | Power Switch |
| | 5048020 | Masking Sheet (D) | 18 | 2200580 | Input Terminal, tuner, aux, tape | | | |
| | 5318930 | S-14 TY Knob | 19 | 2200600 | Input Terminal, phone | | | |
| | 1015260, 1 | 100kΩ (C) x 2 Treble Volume | 20 | 3910600 | Strain Relief | | | |
| | 5048020 | Masking Sheet (D) | 21 | 3903470 | Power Cord | | | |
| | 5318930 | S-14 TY Knob | 22 | 2210410 | Speaker Terminal | | | |
| | 1015270, 1 | 250kΩ (MN) x 2 Balance Volume | 23 | 5110903 | Flange Nut | | | |
| | 5048020 | Masking Sheet (D) | | | | | | |

4-2. AU-217II
Front View



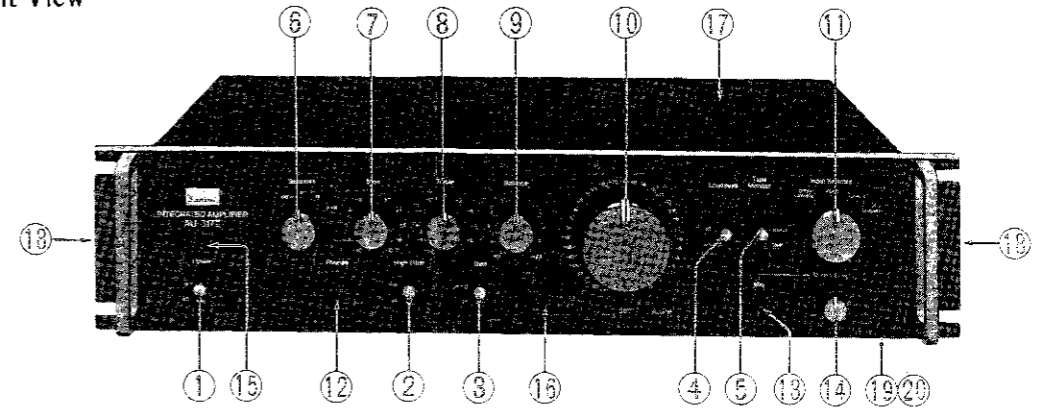
Top View



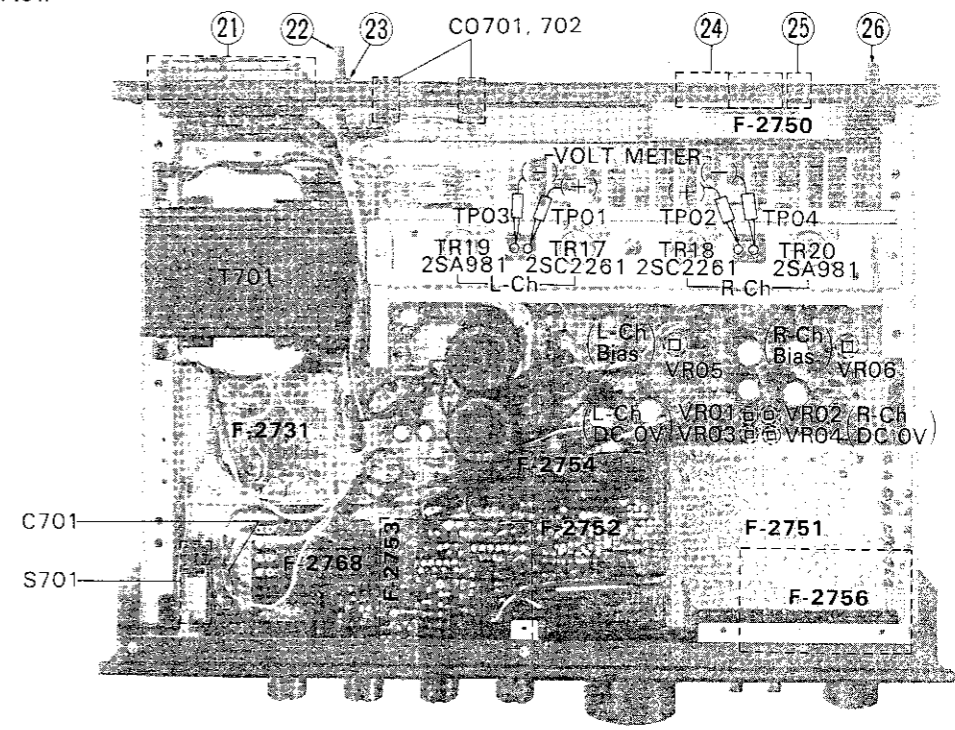
Parts List <Front & Top View>

| Parts No. | Stock No. | Description | Parts No. | Stock No. | Description | Parts No. | Stock No. | Description | |
|-----------|------------|---------------------------------|-----------|------------|-------------------------------|-------------|------------|--------------------------|----------------------------------|
| 1 | 5326612 | Lever Switch Knob, power | 8 | 5318930 | S-14 TY Knob, balance volume | 19 | 3910800 | Strain Relief | |
| | 1172000 | Lever Switch, power | | 1015270, 1 | 250kΩ (1M) x 2 Balance Volume | | 20 | 2200580 | Input Terminal, tuner, aux, tape |
| | 5326612 | Lever Switch Knob, high filter | | 5048020 | Masking Sheet (D) | | 21 | 2200600 | Input Terminal, phono |
| 2 | 1171020 | Lever Switch, high filter | 9 | 5318910 | Volume Knob | 22 | 2230150 | Ground Terminal | |
| | 5328612 | Lever Switch Knob, loudness | | 1011120, 1 | 250kΩ x 2 Volume | | 5288721 | Plate D03, D04 on F-2750 | |
| 3 | 1171020 | Lever Switch, loudness | 10 | 5048050 | Masking Sheet (A) | ●Transistor | | | |
| | 5326612 | Lever Switch Knob, tape monitor | | 5288962 | Plate (V81), volume | | TR17, 18 | 0308541, 2 | 2SD188A R, Q |
| 4 | 1171030 | Lever Switch, tape monitor | 11 | 2430350 | Head Phone Jack | TR19, 20 | 0303381, 2 | 2SB545A R, Q | |
| | 5318920 | M-10 TY Knob, input selector | 12 | 7008210 | Front Panel Assy | C 701 | 0659811 | 0.01μF 125V C.C. | |
| 5 | 1102740 | Rotary Switch, input selector | 13 | 0319120 | LED | T 701 | 4003050 | Power Transformer | |
| | 5048040 | Masking Sheet (B) | 14 | 0008930 | Bonnet | S 701 | 1172000 | Power Switch | |
| 6 | 5318930 | S-14 TY Knob, bass volume | 15 | 5058762 | Rack-mounting Adaptor (each) | CO701, 702 | 2450070 | AC Outlet | |
| | 1015260, 1 | 100kΩ (C) x 2 Bass Volume | 16 | 5507350 | Leg | | | | |
| 7 | 5318930 | S-14 TY Knob, treble volume | 17 | 2210410 | Speaker Terminal | | | | |
| | 1015260, 1 | 100kΩ (C) x 2 Treble Volume | 18 | 3800470, 1 | Power Cord | | | | |

4-3. AU-317II
Front View



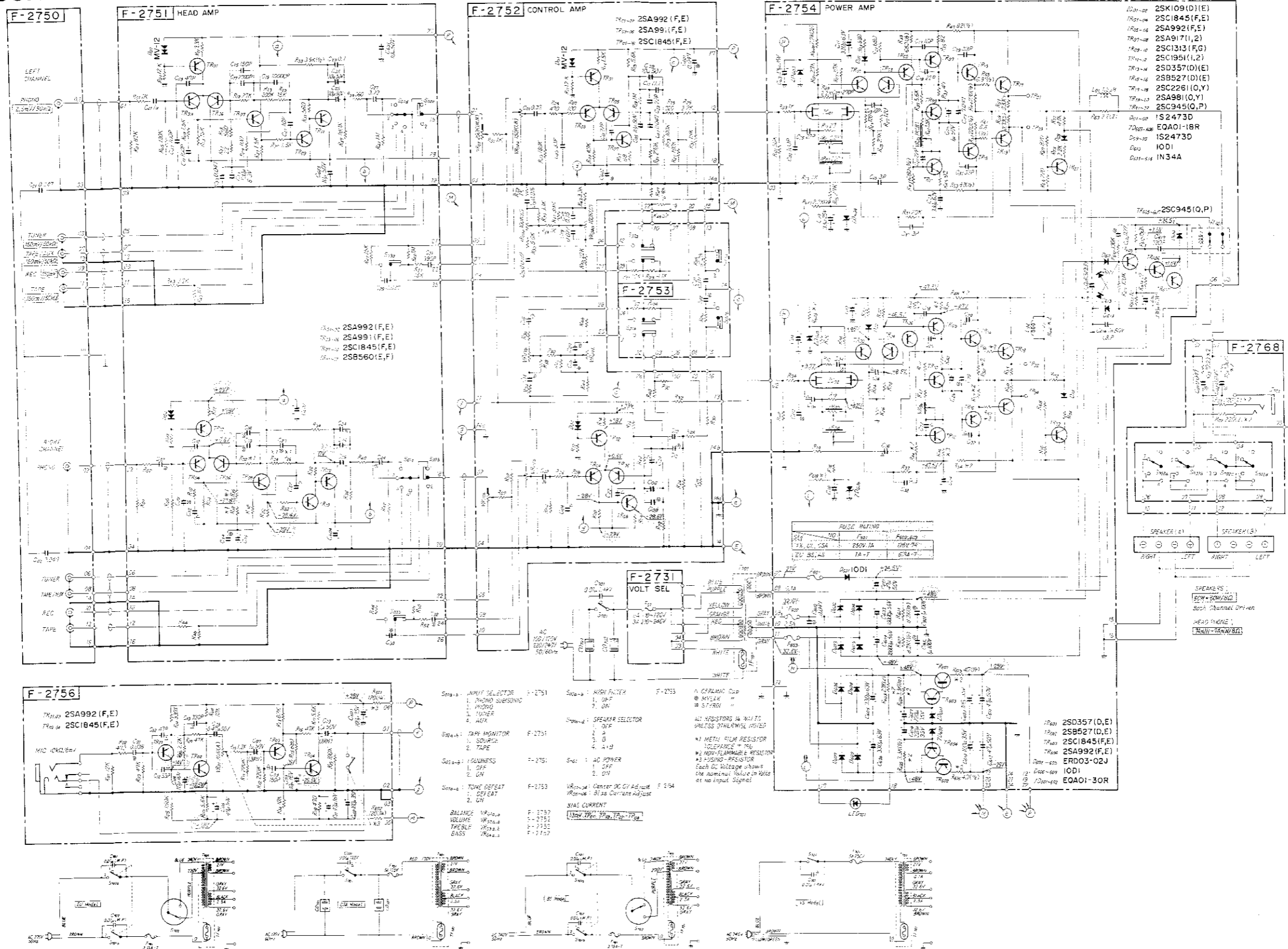
Top View



Parts List <Front & Top View>

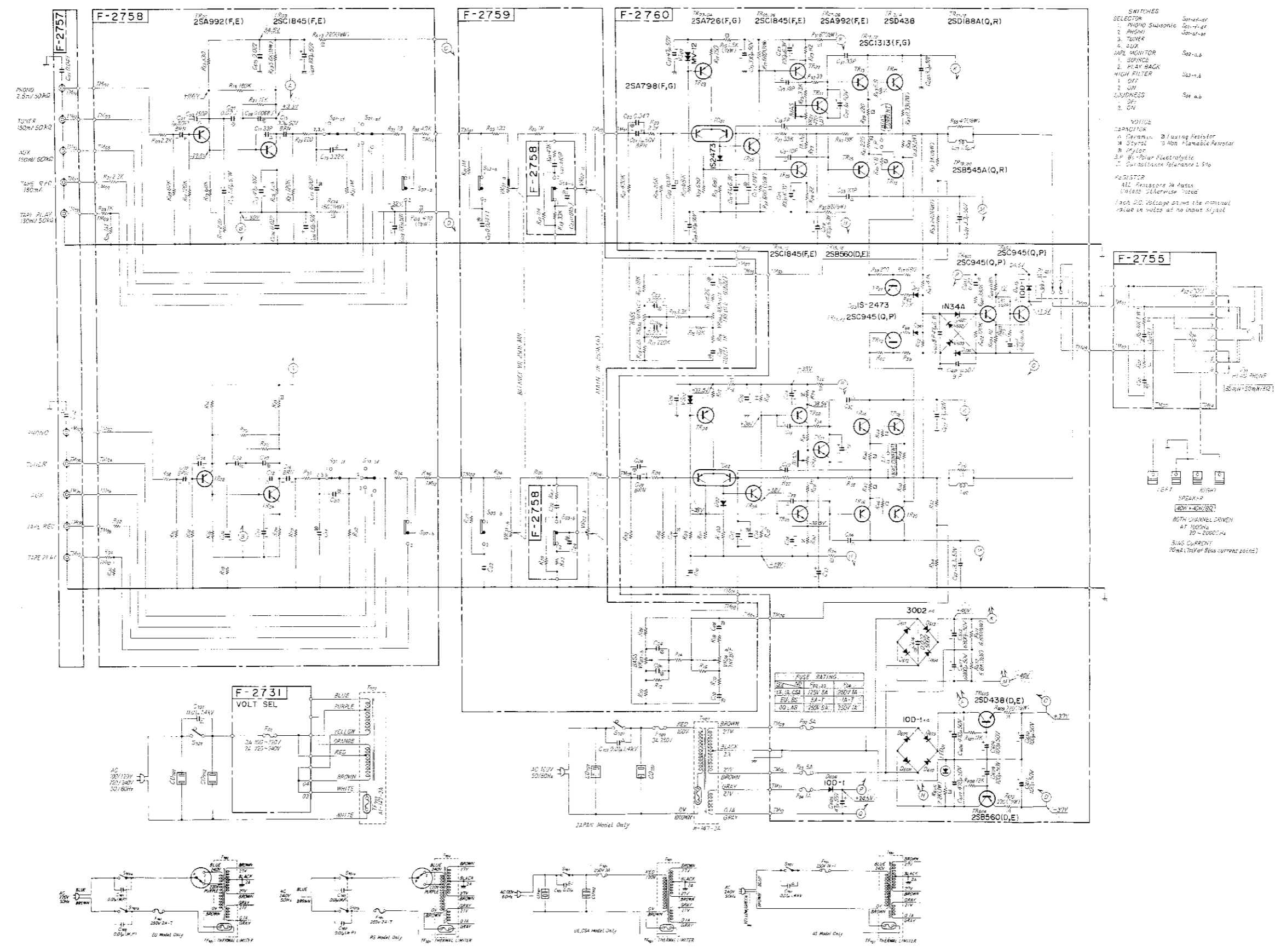
| Parts No. | Stock No. | Description | Parts No. | Stock No. | Description | Parts No. | Stock No. | Description |
|-----------|------------|---------------------------------|-----------|------------|---------------------------------------|-------------|------------|----------------------------------|
| 1 | 5326612 | Lever Switch Knob, power | 9 | 5318930 | S-14 TY Knob, balance volume | 18 | 5398700 | Rack-mounting Adaptor (each) |
| | 1172010 | Lever Switch, power | | 1015320, 1 | 250kΩ (1M) x 2 Balance Volume | | 19 | 5068762 |
| 2 | 5326612 | Lever Switch Knob, high filter | 10 | 5048030 | Masking Sheet (C) | 20 | 5507350 | Leg |
| | 1171020 | Lever Switch, high filter | | 5318910 | Volume Knob | | 21 | 2290190 |
| 3 | 5326612 | Lever Switch Knob, tone defeat | 11 | 1090290 | 150kΩ x 2 Volume | 22 | 3800470, 1 | Power Cord |
| | 1171040 | Lever Switch, tone defeat | | 5048050 | Masking Sheet (A) | | 23 | 3910600 |
| 4 | 5326612 | Lever Switch Knob, loudness | 12 | 5238741 | Plate (M9), volume | 24 | 2200580 | Input Terminal, tuner, aux, tape |
| | 1171020 | Lever Switch, loudness | | 5318920 | M-10 TY Knob, input selector | | 25 | 2200600 |
| 5 | 5326612 | Lever Switch Knob, tape monitor | 13 | 1102740 | Rotary Switch, input selector | 26 | 2230150 | Ground Terminal |
| | 1171030 | Lever Switch, tape monitor | | 5048040 | Masking Sheet (B) | | 5288721 | Plate, D09, D10 on F-2754 |
| 6 | 5318930 | S-14 TY Knob, speakers | 14 | 2430350 | Head Phone Jack | ●Transistor | | |
| | 5048030 | Masking Sheet (C) | | 5318940 | E-18 TY Knob, mic mixing level volume | | TR17, 18 | 0306571, 2 |
| 7 | 5318930 | S-14 TY Knob, bass volume | 15 | 5048040 | Masking Sheet (B) | TR19, 20 | 0300551, 2 | 2SA981 Q, Y |
| | 1015310, 1 | 100kΩ (C) x 2 Bass Volume | | 1090270 | 20kΩ (A) Mic Mixing Level Volume | C 701 | 0659811 | 0.01μF 125V C.C. |
| 8 | 5318930 | S-14 TY Knob, treble volume | 16 | 0319120 | Light Emitted Diode | T 701 | 4003040 | Power Transformer |
| | 1015310, 1 | 100kΩ (C) x 2 Treble Volume | | 7008230 | Front Panel Assy | CO701, 702 | 2450070 | AC Outlet |
| | 5048030 | Masking Sheet (C) | 17 | 0319120 | LED | F 701 | 0431280 | 5A 250V AC Fuse |
| | | | | 5008930 | Bonnet | S 701 | 1172000 | Power Switch |

5. SCHEMATIC DIAGRAM 5-1. AU-317II

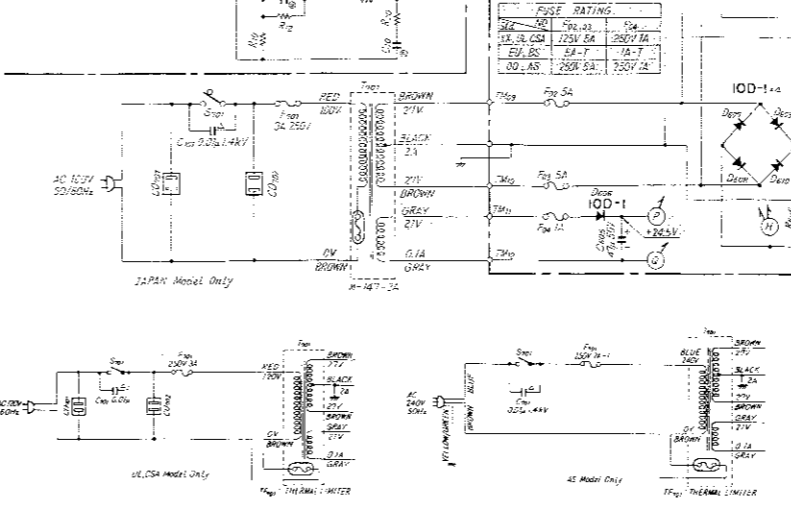
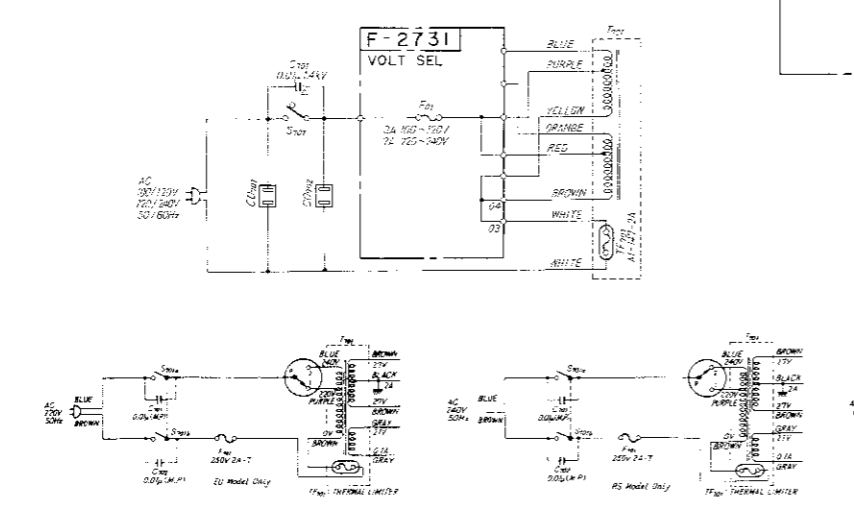
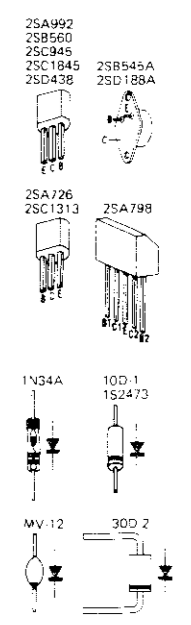
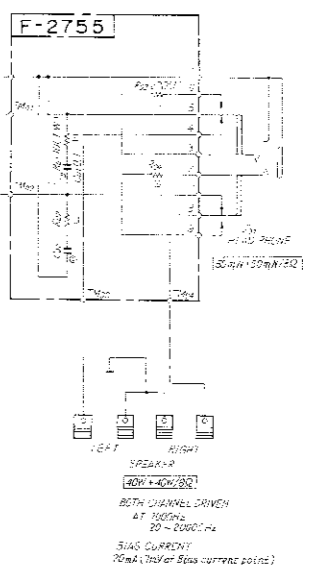


Design and specifications subject to change without notice for improvement.
La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.
Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.

5-2. AU-217II



- SWITCHES**
- SELECTOR
 - 1. HIGH Subsonic
 - 2. HIGH
 - 3. TUNER
 - 4. SUP
 - AMPL MONITOR
 - 1. SPAN
 - 2. PLAY BACK
 - HIGH FILTER
 - 1. OFF
 - 2. ON
 - Brightness
 - 1. OFF
 - 2. ON
- VOLUME**
- CAPACITOR**
- 1. Ceramic
 - 2. Paper
 - 3. Non-Polar Electrolytic
 - 4. Oil-filled
 - 5. Polyester
 - 6. Polystyrene
 - 7. Tantalum
 - 8. Aluminum Electrolytic
- RESISTOR**
- 1. Carbon Film
 - 2. Wirewound
 - 3. Thick Film
 - 4. Thin Film
 - 5. Metal Oxide
 - 6. Carbon
 - 7. Glass Glaze
 - 8. Metal
 - 9. Other
- 100k 100k voltage shows the nominal value in voice at no input signal

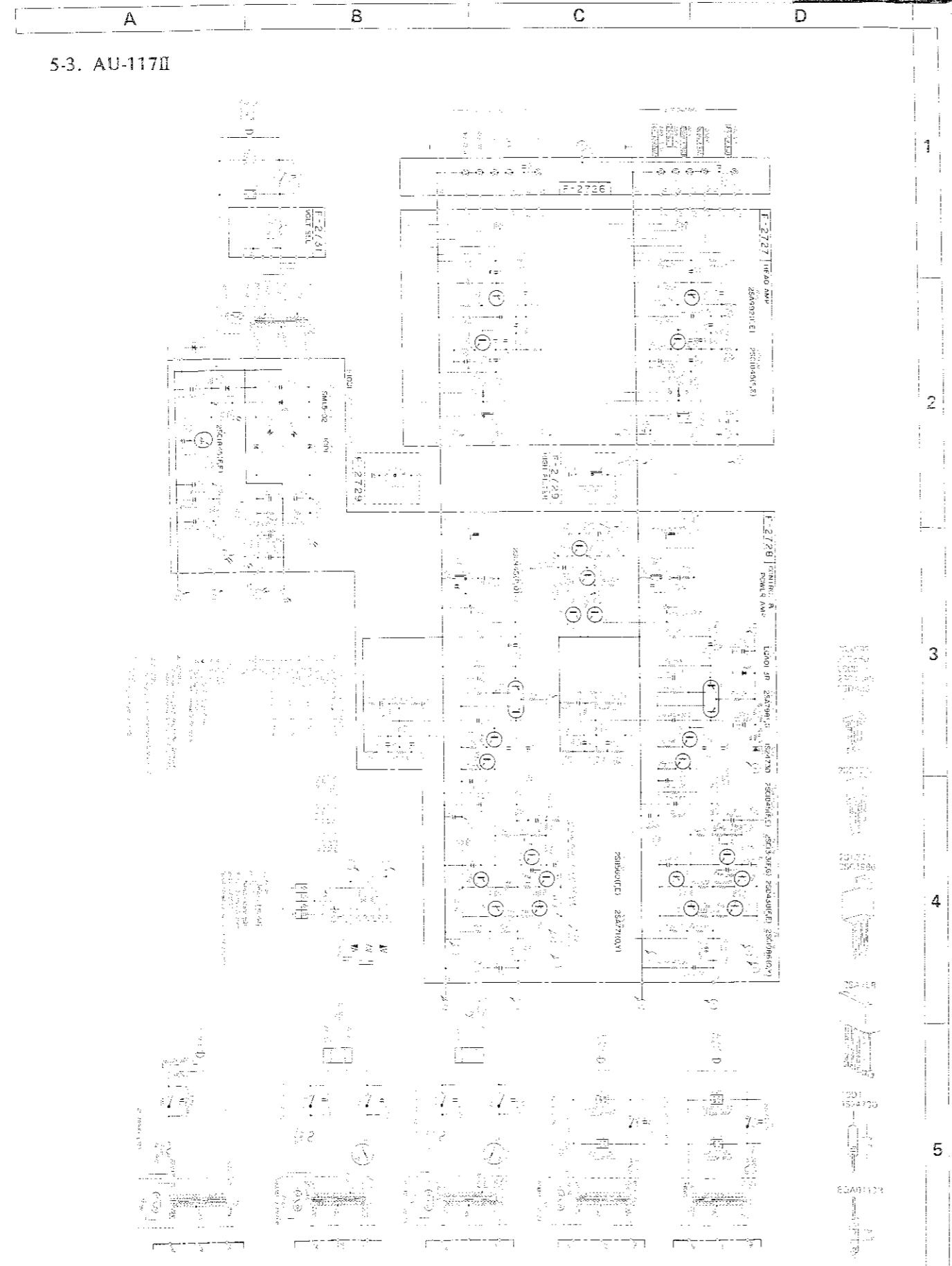


FUSE RATINGS

| Model | 1A | 2A | 3A | 4A | 5A | 6A | 7A | 8A | 9A | 10A |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1A | 100mA | 200mA | 300mA | 400mA | 500mA | 600mA | 700mA | 800mA | 900mA | 1000mA |
| 2A | 200mA | 400mA | 600mA | 800mA | 1000mA | 1200mA | 1400mA | 1600mA | 1800mA | 2000mA |
| 3A | 300mA | 600mA | 900mA | 1200mA | 1500mA | 1800mA | 2100mA | 2400mA | 2700mA | 3000mA |
| 4A | 400mA | 800mA | 1200mA | 1600mA | 2000mA | 2400mA | 2800mA | 3200mA | 3600mA | 4000mA |
| 5A | 500mA | 1000mA | 1500mA | 2000mA | 2500mA | 3000mA | 3500mA | 4000mA | 4500mA | 5000mA |
| 6A | 600mA | 1200mA | 1800mA | 2400mA | 3000mA | 3600mA | 4200mA | 4800mA | 5400mA | 6000mA |
| 7A | 700mA | 1400mA | 2100mA | 2800mA | 3500mA | 4200mA | 4900mA | 5600mA | 6300mA | 7000mA |
| 8A | 800mA | 1600mA | 2400mA | 3200mA | 4000mA | 4800mA | 5600mA | 6400mA | 7200mA | 8000mA |
| 9A | 900mA | 1800mA | 2700mA | 3600mA | 4500mA | 5400mA | 6300mA | 7200mA | 8100mA | 9000mA |
| 10A | 1000mA | 2000mA | 3000mA | 4000mA | 5000mA | 6000mA | 7000mA | 8000mA | 9000mA | 10000mA |

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 Le présent document et ses spécifications sont susceptibles d'être modifiés sans préavis par suite d'améliorations éventuelles.
 Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.

AU-117II/AU-217II
 AU-317II



5-3. AU-117II

6. PACKING LIST

6-1. AU-117II

| Parts No. | Stock No. | Description |
|-----------|-----------|-------------------|
| 1 | 9116760 | Vinyl Cover |
| 2 | 9028081 | Styrofoam Packing |
| 3 | 9001720 | Carton Case |

6-2. AU-217II

| Parts No. | Stock No. | Description |
|-----------|-----------|-------------------|
| 1 | 9116760 | Vinyl Cover |
| 2 | 9028081 | Styrofoam Packing |
| 3 | 9001740 | Carton Case |

6-3. AU-317II

| Parts No. | Stock No. | Description |
|-----------|-----------|-------------------|
| 1 | 9116760 | Vinyl Cover |
| 2 | 9028081 | Styrofoam Packing |
| 3 | 9001760 | Carton Case |

7. ACCESSORY PARTS LIST

7-1. AU-117II

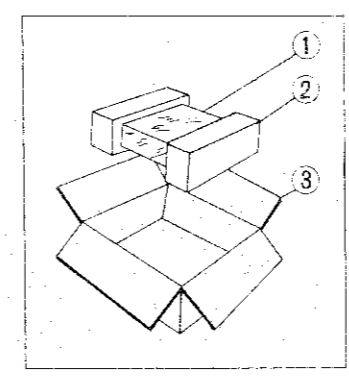
| Stock No. | Description |
|-----------|-------------------------------------|
| 9204520 | Operating Instructions |
| 5396700 | Rack-mounting Adaptor (each) |
| 9116830 | Vinyl Bag For Rack-mounting Adaptor |
| 9238120 | Schematic Diagram |

7-2. AU-217II

| Stock No. | Description |
|-----------|-------------------------------------|
| 9204530 | Operating Instructions |
| 5396700 | Rack-mounting Adaptor (each) |
| 9116830 | Vinyl Bag For Rack-mounting Adaptor |
| 9238130 | Schematic Diagram |

7-3. AU-317II

| Stock No. | Description |
|-----------|-------------------------------------|
| 9204540 | Operating Instructions |
| 5396700 | Rack-mounting Adaptor (each) |
| 9116830 | Vinyl Bag For Rack-mounting Adaptor |
| 9238140 | Schematic Diagram |



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