

SERVICE MANUAL

INTEGRATED STEREO AMPLIFIER

SANSUI AU-9900/11000



Sansui

SANSUI ELECTRIC CO., LTD.

This service manual is designed for service engineers to repair, adjust, maintain and order the replacement parts of the AU-9900 and AU-11000 correctly.

When ordering the parts, use the stock number and parts name specifically referring to the Parts Locations & Parts Lists.

For general usage and maintenance of the unit, please refer to the Operating Instructions attached with the unit.

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1. SPECIFICATIONS

POWER OUTPUT

Min. RMS, both channels driven, from 20 to 20,000Hz,
with no more than 0.08% total harmonic distortion

※AU-9900 { 80 watts per channel into 8 ohms
80 watts per channel into 4 ohms

※AU-11000 { 110 watts per channel into 8 ohms
110 watts per channel into 4 ohms

LOAD IMPEDANCE 4, 8 ohms (SYSTEM A or B)
8 ohms (SYSTEM A+B)

POWER BANDWIDTH 20 to 20,000Hz at or below
rated min. RMS power
output and total harmonic
distortion

TOTAL HARMONIC DISTORTION

..... less than 0.08% at or below
rated min. RMS power
output

INTERMODULATION DISTORTION

(70Hz:7kHz=4:1 SMPTE method)

..... less than 0.08%

FREQUENCY RESPONSE (at 1 watt)

..... 10 to 50,000Hz ± 1 dB

DAMPING FACTOR approximately 80 at 8 ohms
load

INPUT SENSITIVITY AND IMPEDANCE

(1kHz, for rated power output)

PHONO-1 2, 4, 8 mV/30, 50, 100 kilo-
ohms

(Max. input capability: 1,000 mV at 1kHz, less than
0.1% total harmonic distortion and PHONO-1 SEN-
SITIVITY switch at 8 mV)

PHONO-2 2 mV/50 kilo-ohms

(Max. input capability: 300 mV at 1 kHz, less than
0.1% total harmonic distortion)

TUNER 130 mV/50 kilo-ohms

AUX-1, 2 130 mV/50 kilo-ohms

TAPE-1, 2 PLAY (pin jacks)

..... 130 mV/50 kilo-ohms

TAPE-2 REC/PLAY (DIN socket)

..... 130mV

MAIN IN 700 mV/100 kilo-ohms

OUTPUT LEVEL (1,000Hz)

TAPE-1, 2 REC (pin jacks)

..... 130 mV

TAPE-2 REC/PLAY (DIN socket)

..... 30 mV

PRE OUT 700 mV

CHANNEL SEPARATION (1 kHz, at rated power output)

PHONO-1, 2 better than 55dB

TUNER better than 60dB

AUX-1, 2 better than 60dB

TAPE-1, 2 PLAY better than 60dB

MAIN IN better than 70dB

HUM AND NOISE (IHF)

PHONO-1, 2 better than 65dB

TUNER better than 80dB

AUX-1, 2 better than 80dB

TAPE-1, 2 PLAY better than 80dB

MAIN IN better than 100dB

CONTROLS

BASS ± 10 dB (30Hz)

Tone selector (turnover frequency)

..... 150, 300, 600Hz

MIDRANGE ± 5 dB (1.5 kHz)

TREBLE ± 10 dB (20 kHz)

Tone selector (turnover frequency)

..... 2, 4, 8 kHz

LOW FILTER -3dB (20, 60Hz), 12dB/oct.

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

..... -3dB (12 kHz), 12dB/oct.

MUTING 0, -20dB

LEVEL SET 0, -10dB, -20dB

POWER REQUIREMENTS

POWER VOLTAGE 100, 120, 220, 240V 50/60Hz

120V (Usable 110~130V)

(for U.S.A. & Canada only)

POWER CONSUMPTION .. 180 watts (rated)

515 watts (max)

DEMENSIONS 460 mm (18 $\frac{1}{8}$ " W

160 mm (6 $\frac{5}{16}$ " H

373 mm (14 $\frac{13}{16}$ " D

※AU-9900

WEIGHT 17.9 kg (39.5 lbs) net

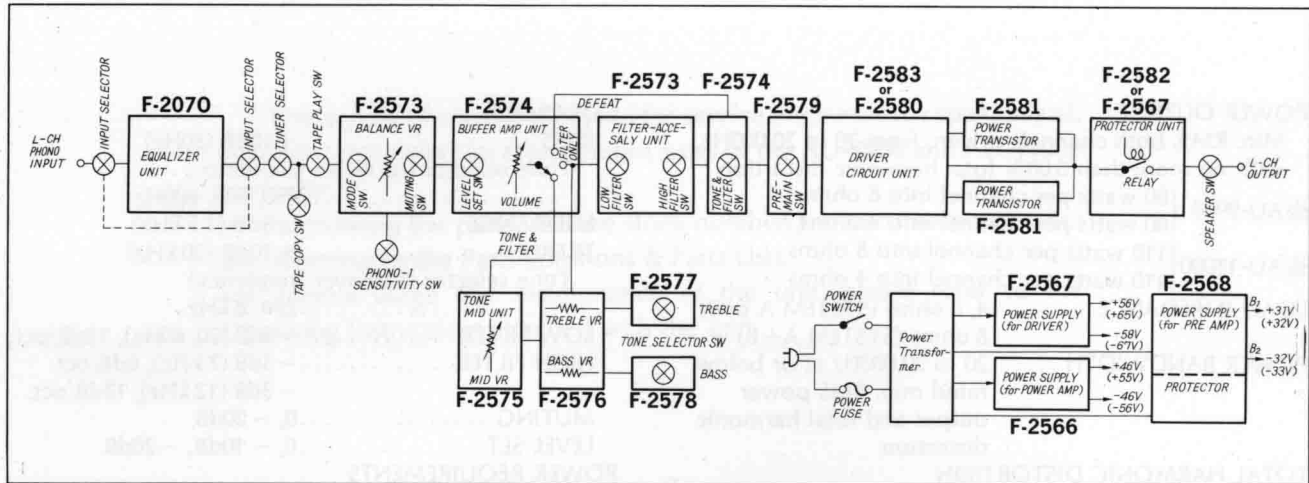
20.0 kg (44.1 lbs) packed

※AU-11000

WEIGHT 19.0 kg (41.9 lbs) net

21.1 kg (46.5 lbs) packed

2. BLOCK DIAGRAM



3. ADJUSTMENTS

3-1. Driver Circuit Board Adjustments

- Note:** 1. Master Volume.....Minimum
 2. Room Temperature.....10~35°C
 3. For adjustment, run the unit for more than 5 minutes after the power is switched on.

STEP	SUBJECT	EQUIPMENT	MESURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
1	DC 0V L-CH	DC Volt Meter	Speaker Terminal Fig. 3-2	F-2580 VR01 Fig. 3-1	0V $\pm$ 10mV	Set bias current to minimum by VR03 and VR04 (clockwise)
2	DC 0V R-CH	DC Volt Meter	Same as above	F-2580 VR02 Fig. 3-1	0V $\pm$ 10mV	
3	Bias Current L-CH	DC Milliammeter	Terminal 06 of F-2566 Fig. 3-1	F-2580 VR03 Fig. 3-1	50mA $\pm$ 1mA	After setting leads $\oplus\ominus$ from DC milliammeter to two points as Fig. 3-1 for this adjustment, set power switch to ON.
4	Bias Current R-CH	DC Milliammeter	Terminal 01 of F-2566 Fig. 3-1	F-2580 VR04 Fig. 3-1	50mA $\pm$ 1mA	

※Change lead's polarity if meter swings backward.

Fig. 3-1

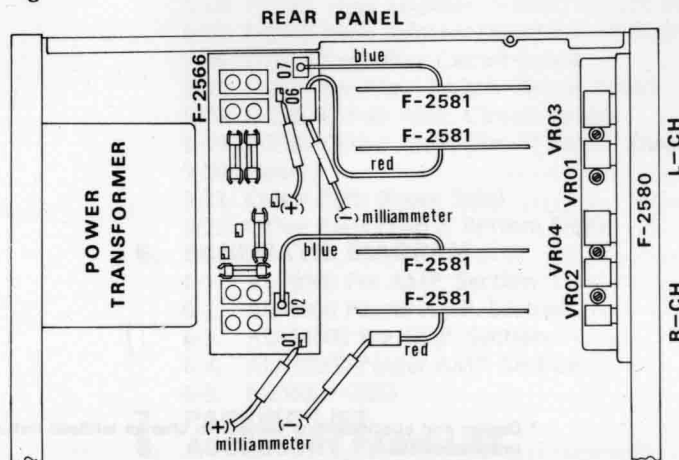
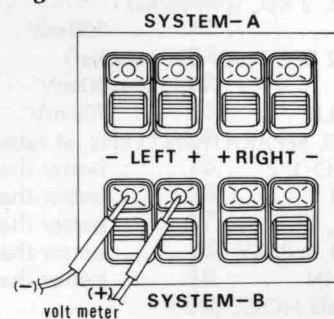


Fig. 3-2

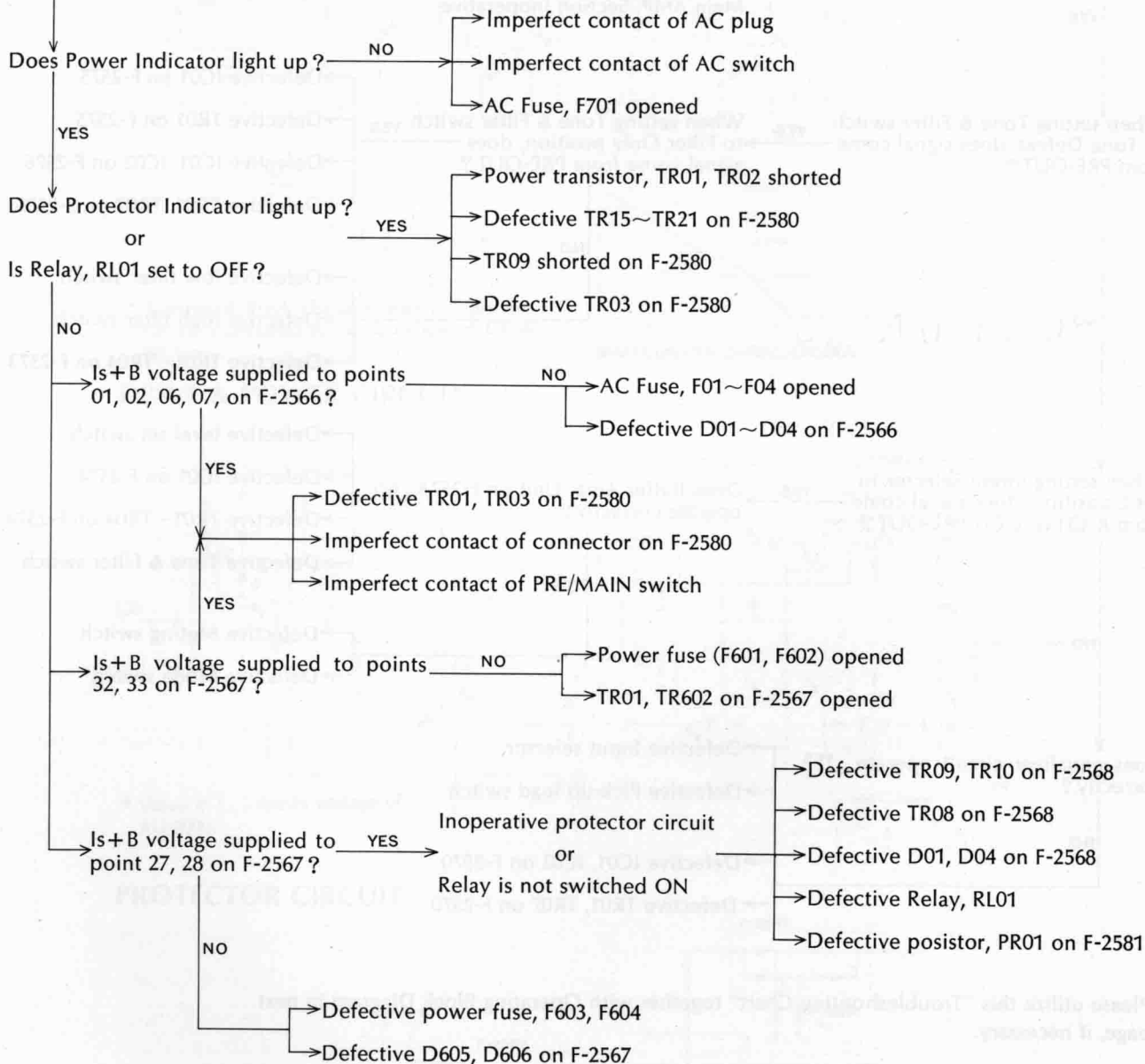


4. TROUBLESHOOTING

4-1. Troubleshooting Chart

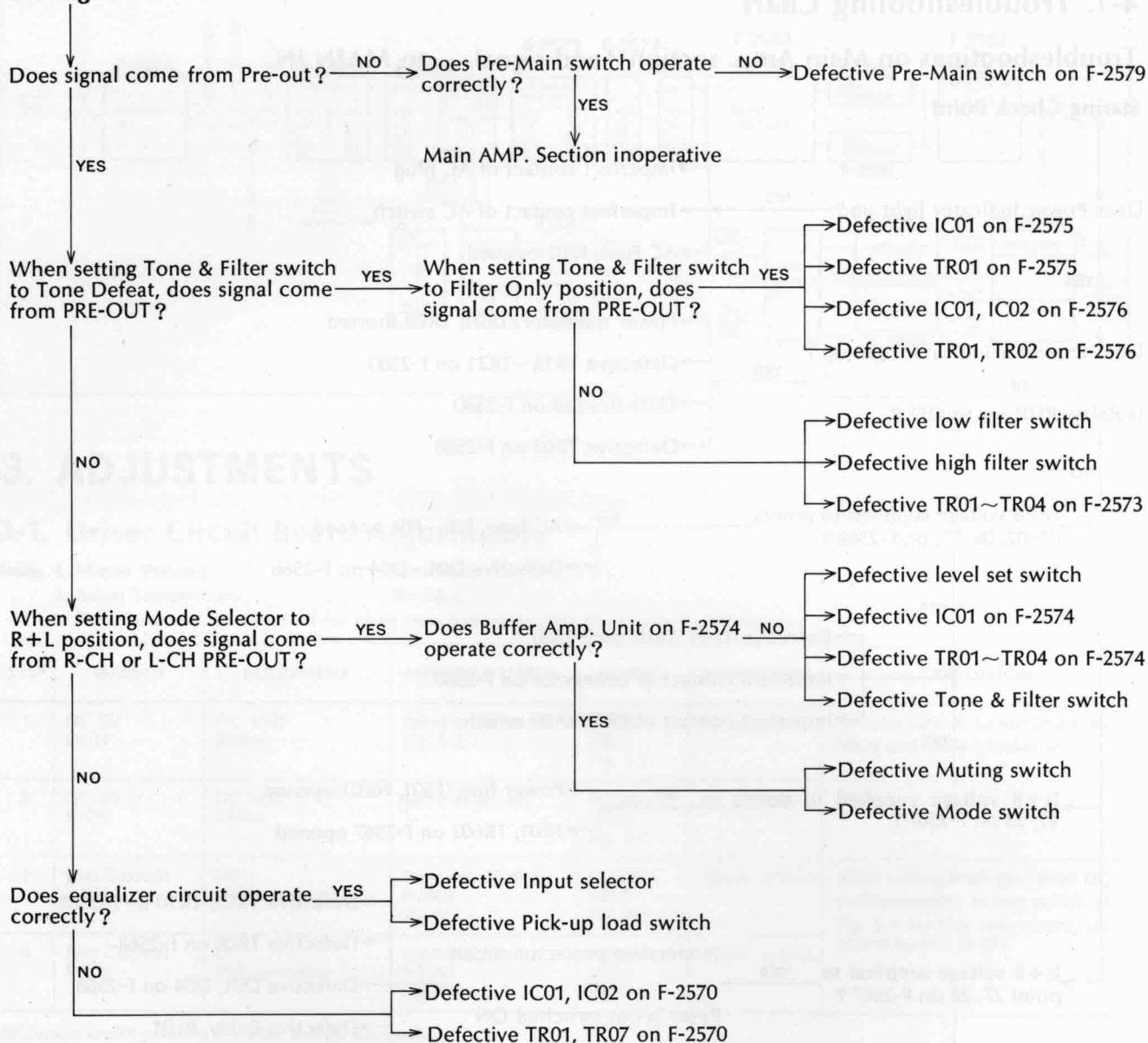
Troubleshootings on Main Amp. section (Feed signal. . . to MAIN IN)

Starting Check Point



Troubleshooting on Pre Amp. Section (Feed signal to PHONO INPUT)

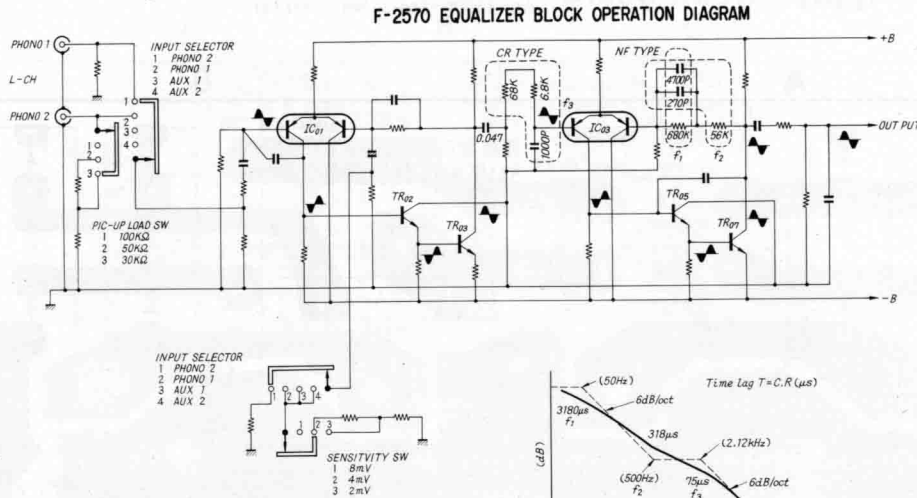
Starting Check Point



*Please utilize this "Troubleshooting Chart" together with Operating Block Diagram in next page, if necessary.

4-2. Operation Block Diagram

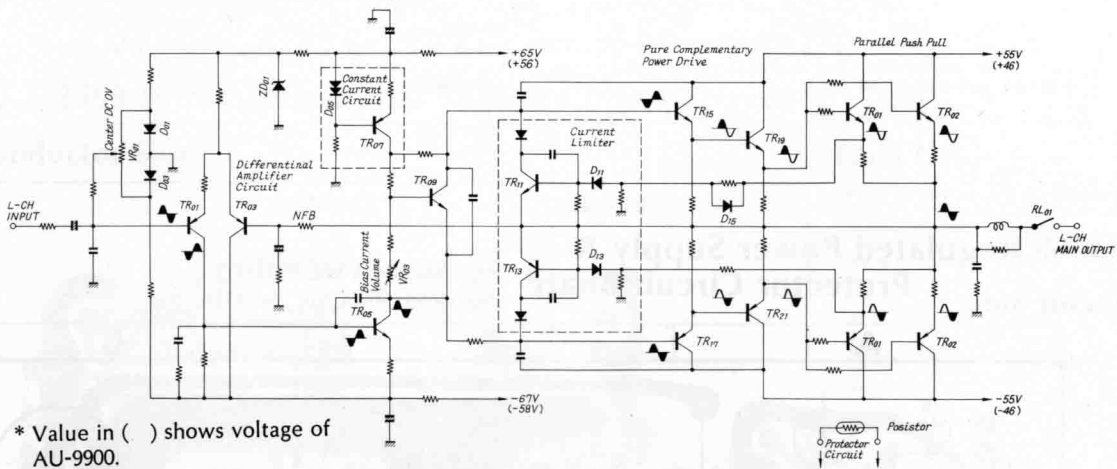
F-2570 EQUALIZER BLOCK OPERATION DIAGRAM



* A curve of RIAA characteristics in equalizer circuit is obtained by combination of CR & NF type.

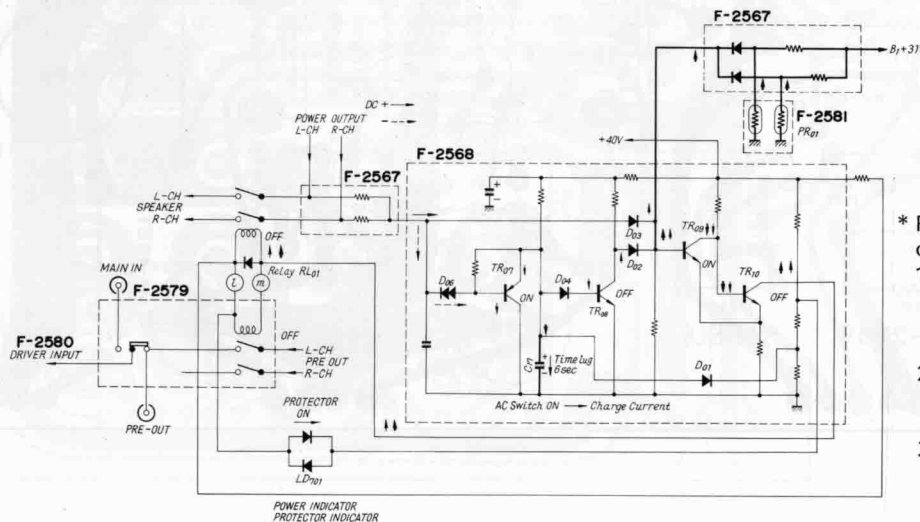
RIAA EQUALIZER CHARACTERISTICS

DRIVE & POWER CIRCUIT



* Value in () shows voltage of AU-9900.

PROTECTOR CIRCUIT



* Protection circuit is composed of the followings, 1, 2 & 3.

1. Circuit to protect speakers from break-down against continuous or momentary DC voltage.
2. Circuit with posistor to protect power transistors from thermal runaway.
3. Transient canceller circuit by relay to be completely free from pop noise at PRE-OUT.

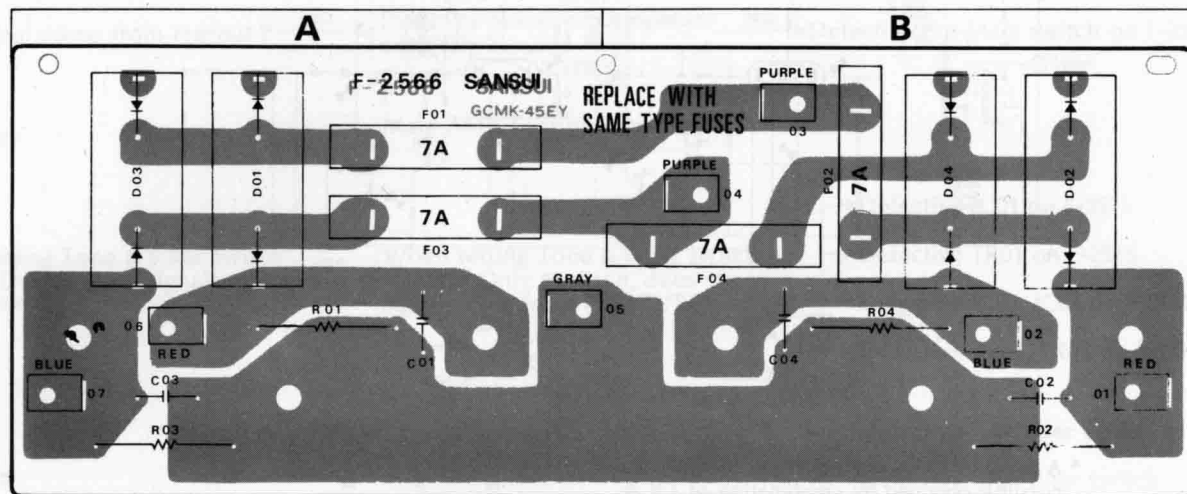
5. PARTS LOCATION AND PARTS LIST

5-1. F-2566 Power Supply Circuit Board

AU-9900 (Stock No. 7501201)

AU-11000 (Stock No. 7501231)

Counductor Side



Parts List

Parts No.	Stock No.	Description	
D01, 02	0311310	SS-5	Diode A. B
D03, 04	0311320	SS-5R	
C01, 02	0659011	10000 pF	500V C.C. A. B
C03, 04	0659011	10000 pF	
C01, 02	0605477	0.047 μ F	M.C. A. B
R01, 02	0105332	3.3k Ω 2W C.R.	A. B

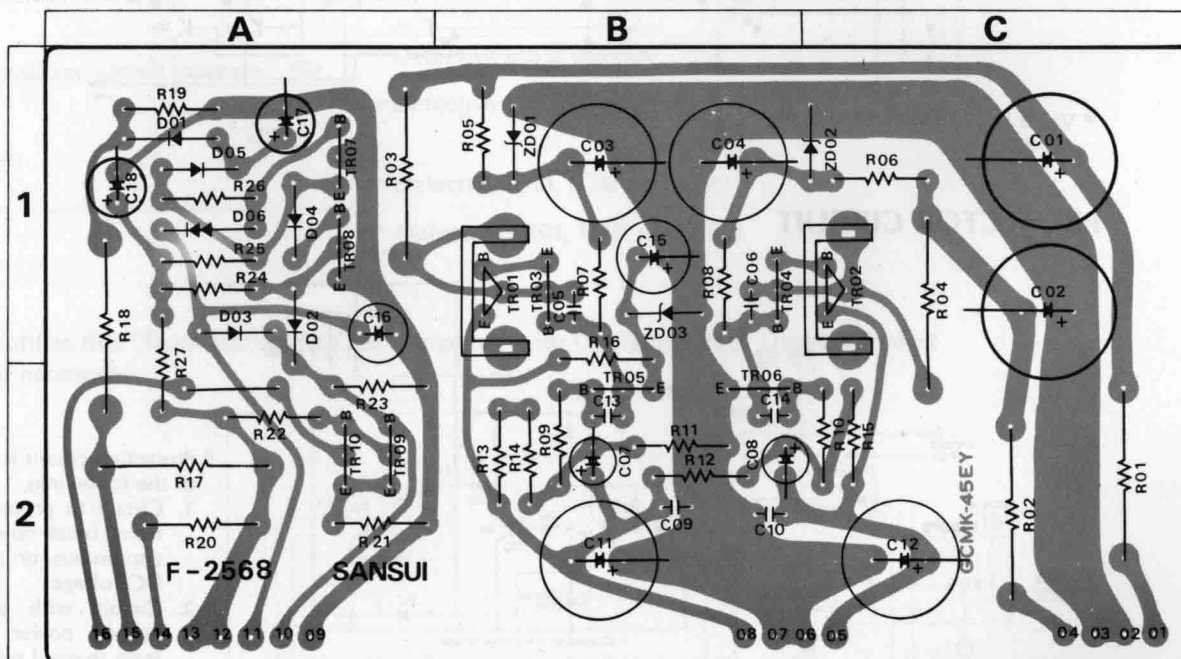
Parts No.	Stock No.	Description	
R03, 04	0105332	3.3k Ω 2W C.R.	A . B
	2310051	P type Fuse Holder	
AU-9900 only			
F01-04	0431280	5A 250V AC Fuse	A . B
AU-11000 only			
F01-04	0431300	7A 250V AC Fuse	A . B

5-2. F-2568 Regulated Power Supply & Protector Circuit Board

AU-9900 (Stock No. 7501221)

AU-11000 (Stock No. 7501251)

Counductor Side



Parts List

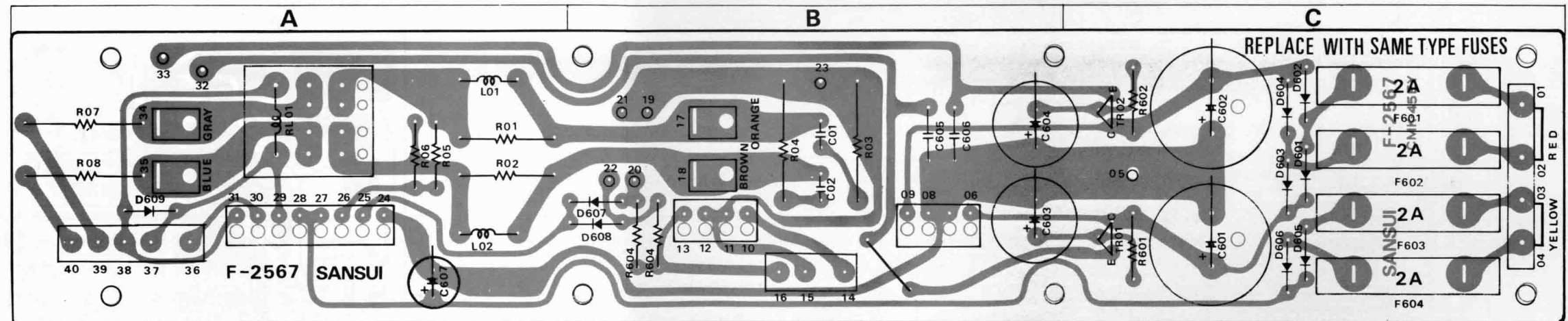
Parts No.	Stock No.	Description	Position
TR01	0308450, 1	2SD356 (C, D)	1B
TR02	0303280, 1	2SB526 (C, D)	1C
TR03	0306070, 1	2SC1313 (F, G)	1B
TR04	0300470, 1	2SA726 (F, G)	1B
TR05	0306070, 1	2SC1313 (F, G)	2B
TR06	0300470, 1	2SA726 (F, G)	2B
TR07	0300511, 2	2SA733 (Q, R)	1A
TR08	0306070, 1	2SC1313 (F, G)	1A
TR09	0306070, 1	2SC1313 (F, G)	2A
TR10	0306131, 2	2SC1364 (6, 7)	2A
Diode			
D01	0310331	1N60	1A
D02	0311050	15953	1A
D03	0311050	15953	1A
D04	0311050	15953	1A
D05	0310490	SV-02	1A
Zener Diode			
ZD01	0316610	RD39E B	1B
ZD02	0316610	RD39E B	1C
ZD03	0316250	RD-10E B	1B
Capacitor			
C01	0519904	220µF	1C
C02	0519904	220µF	1C
C03	0515101	100µF	1B
C04	0515101	100µF	1B
C05	0660330	33pF	1B
C06	0660330	33pF	1B
C07	0515100	10µF	2B
C08	0515100	10µF	2B
C09	0657103	10000pF	2B
C10	0657103	10000pF	2B
C11	0515101	100µF	2B
C12	0515101	100µF	2C
C15	0512101	100µF	1B
C16	0531221	220µF	1B
C17	0510331	330µF	1B
C18	0515339	3.3µF	1B
Resistor			
R01	0105121	120Ω	2C
R02	0105121	120Ω	2C
R03	0105221	220Ω	1A
R04	0105221	220Ω	1C
R05	0107332	3.3kΩ	1B
R06	0107332	3.3kΩ	1C
R07	0107392	3.9kΩ	1B
R08	0107222	2.2kΩ	1B
R09	0107102	1kΩ	2B
R10	0107102	1kΩ	2C
R11	0107472	4.7kΩ	2B
R12	0107123	12kΩ	2B
R13	0107332	3.3kΩ	2B
R14	0107682	6.8kΩ	2B
R15	0107123	12kΩ	2C
R16	0107682	6.8kΩ	1B
R17	0105151	150Ω	2A
R18	0183471	470Ω	1, 2A
R19	0107680	68Ω	1A
R20	0103471	470Ω	2A
R21	0107100	10Ω	2A
R22	0107473	47kΩ	2A
R23	0107104	100kΩ	2A
R24	0107333	33kΩ	1A
R25	0107474	470kΩ	1A
R26	0107223	22kΩ	1A
R27	0107222	2.2kΩ	1, 2A
Pin Ass'y			
2410770		4P Pin Ass'y C type	
2410790		8P Pin Ass'y C type	
2410960		3P Pin Ass'y F type	

5-3. F-2567 Power Supply Circuit Board for Driver AMP.

 AU-9900 (Stock No. 7501211)
 AU-11000 (Stock No. 7501241)

* Power supply circuit board, either F-2567 or F-2582 for driver amplifier, is used in this model. When replacing the printed circuit board, use same type of the board for easy installation.

Counductor Side



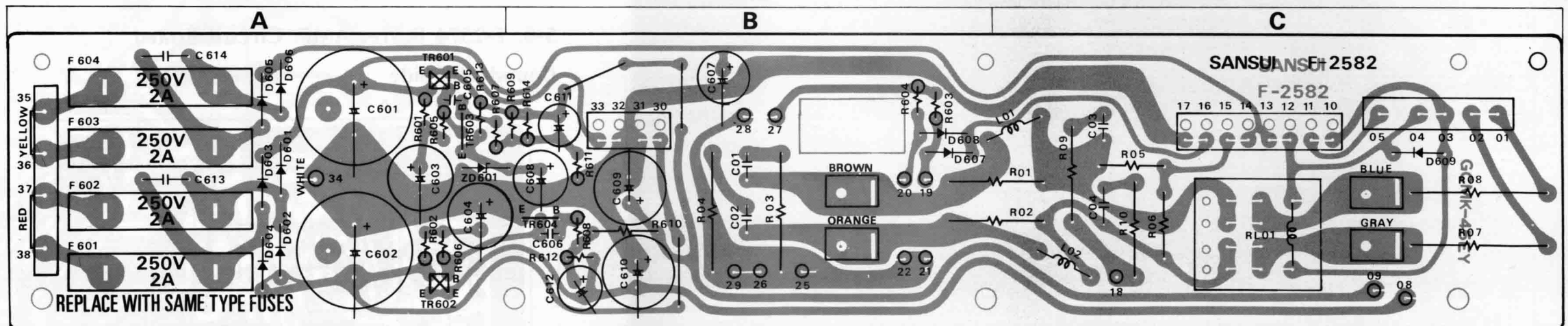
Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position		
TR601	0305900, 1	25C1124 (1, 2) 25A706-5 (1, 2)	Transistor	D606	0310340	10D1	C	C603	0519902	47 μF 80V E.C.	B	R05	0107823	82k Ω	A	RL01	1150280	Relay	A		
TR602	0300480, 1			D607	0311050	15953	B	C604	0519902		47 μF	B	R06	0107683	68k Ω	A	F601-604	0431240, 2	2A 250V	C	
		D608	0311050	15953	B	C605	0659011	10000 pF	B	R601	0107103	10k Ω	A								
D601	0310350	10D2	C	D609	0310340	10D1	A	C606	0659011	10000 pF	B	R602	0107103	10k Ω	C	2310051					P type Fuse Holder
D602	0310350	10D2	C					C607	0515330	33 μF	A	R603	0107224	220k Ω		2410570					3P Pin Ass'y D type
D603	0310350	10D2	C					C701, 702	0000000	00 μF		R604	0107224	220k Ω	B	2420330	4P Connector A type				
D604	0310350	10D2	C	C01, 02	0601687	0.068 μF	50V M.C.	B	R01, 02	0104479	B					2420350	8P Connector A type				
D605	0310340	10D1	C	C601	0549301	470 μF	80V	C	R03, 04	0105100	B	L01, 02	4290210	2.5 μH	Filter Coil	A					
				C602	0549301	407 μF		C													

5-4. F-2582 Power Supply Circuit Board for Driver AMP.

 AU-9900 (Stock No. 7501501)
 AU-11000 (Stock No. 7501491)

Counductor Side



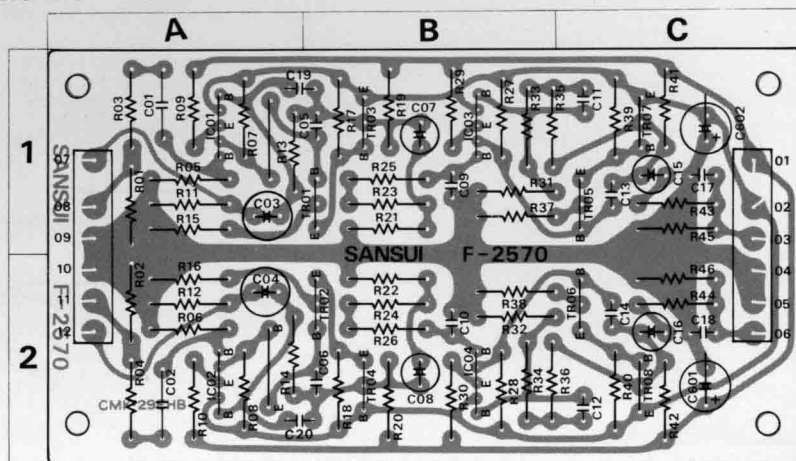
Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position						
TR601	0305900	2SC1124 (1, 2)	Transistor	A	D606	0310340	10D1	A	C606	0660470	47 pF 50V C.C.	B	R06	0107683	68kΩ ¼ W C.R.	C					
	0308451, 2	2SD356 (D, E)			D607	0311050	15953	B	C607	0515330	33µF 50V E.C.	B	R07, 08	0135221	220Ω 5 W Ce.R.	C					
TR602	0300480, 1	2SA706 (1, 2)			D608	0311050	15953	B	R601	0106472	4.7kΩ	B	R612	0106333	33kΩ	¼ W C.R.	B				
	0303281, 2	2SB526 (D, E)			D609	0310340	10D1	C	C609	0519902	47µF 80V E.C.	B	R602	0106472	4.7kΩ		A				
TR603	0306270, 1	2SC1708 (F, G)	B	B	ZD601	0316310	RD-13E B	A	C610	0519902	47µF 80V E.C.	B	R603	0106154	150kΩ	L01, 02	4290210	Filter Coil	C		
TR604	0300470, 1	2SA726 (F, G)			C611	0515339	3.3µF 50V E.C.	B	R604	0106154	150kΩ	B	RL01	1150280	Relay	C					
D601	0310350	10D2	Diode	A	C01, 02	0601687	0.068µF 50V M.C.	B	C612	0516339	3.3µF 63WV E.C.	B	R605	0106332	3.3kΩ	¼ W C.R.	A	F601-604	0431240	AC Fuse 2A 250V	A
D602	0310350	10D2			C601	0549301	470µF 80V E.C.	A	C613, 614	0659801	0.01µF C.C.	A	R606	0106332	3.3kΩ				2310051	P type Fuse Holder	
D603	0310350	10D2			C602	0549301	470µF 80V E.C.	A	R01, 02	0104479	4.7Ω 1 W C.R.	B, C	R607	0106102	1kΩ				2410570	5P Pin Ass'y D type	
D604	0310350	10D2			C603	0519902	47µF 80V E.C.	A	R03, 03	0105100	10Ω 2 W C.R.	B	R608	0106102	1kΩ				2420330	4P Connector A type	
D605	0310340	10D1			C604	0519902	47µF 80V E.C.	A	R05	0107823	82kΩ ¼ W C.R.	C	R609	0106273	27kΩ				2420350	8P Connector A type	

5-5. F-2570 Equalizer Circuit Board

AU-9900 (Stock No. 7550711)
AU-11000 (Stock No. 7550721)

Counductor side



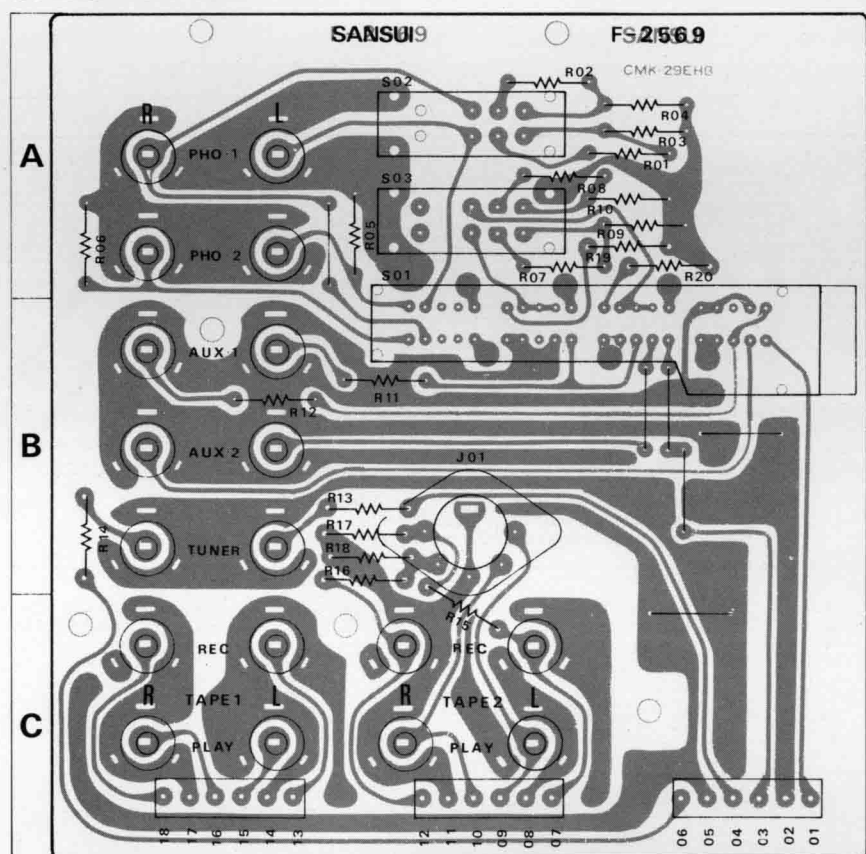
Parts List

Parts No.	Stock No.	Description	Position
TR01, 02	0306070, 1	2SC1313 (F, G)	1A. 2A
TR05, 04	0306270, 1	2SC1708 (F, G)	1B. 2B
TR05, 06	0306070, 1	2SC1313 (F, G)	1C. 2C
TR07, 08	0306270, 1	2SC1708 (F, G)	1C. 2C
IC01, 02	0360290, 1	2SA798 (F, G)	1A. 2A
IC03, 04	0360290, 1	2SA798 (F, G)	1B. 2B

5-6. F-2569 Input Terminal & Switch Circuit Board

AU-9900 (Stock No. 7592851)
AU-11000 (Stock No. 7592921)

Counductor Side



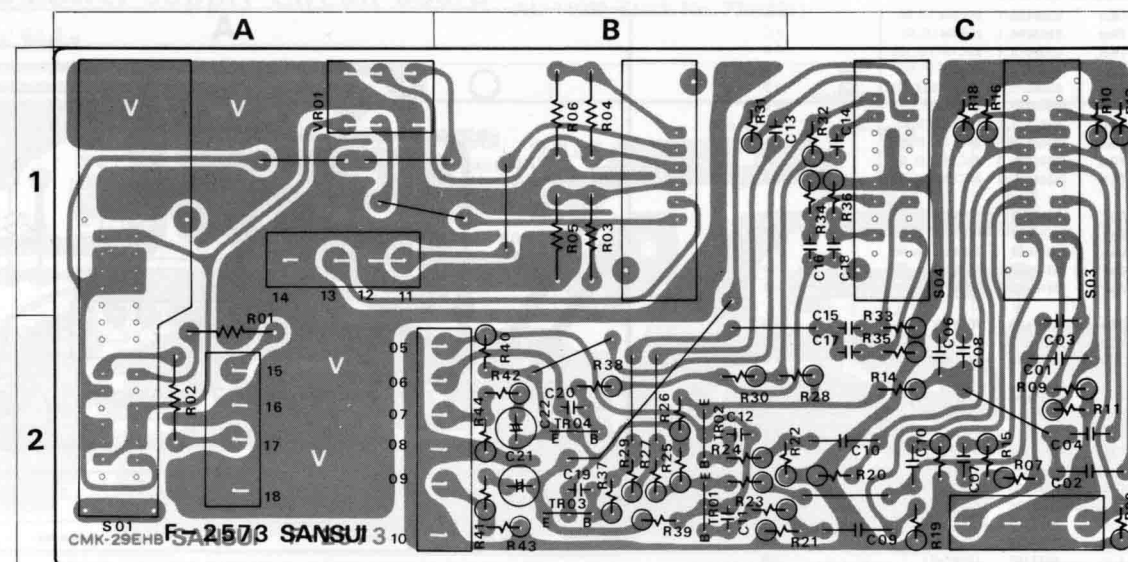
Parts List

Parts No.	Stock No.	Description	Position
R01, 02	0107563	56kΩ	A. A
R03, 04	0107473	47kΩ	A. A
R05, 06	0107104	100kΩ	A. A
R07, 08	0107333	33kΩ	A. A
R09, 10	0107183	18kΩ	A. A
R11, 12	0107102	1kΩ	B. B
R13, 14	0107102	1kΩ	B. B
R15, 16	0107334	330kΩ	B. C B
R17, 18	0107104	100kΩ	B. B
R19, 20	0107183	18kΩ	A. A
S01	1190260	Input Selector Switch	A. B
S02	1110310	Pick-up Load Switch	A
S03	1110310	Sensitivity Switch	A
J01	2090030	Din Jack	B
	2410780	6P Pin Ass'y C type	
	2430260	2P Jack (white)	
	2430270	1P Jack (red)	

5-7. F-2573 Filter & Accessory Circuit Board

AU-9900 (Stock No. 7561061)
AU-11000 (Stock No. 7561111)

Counductor Side



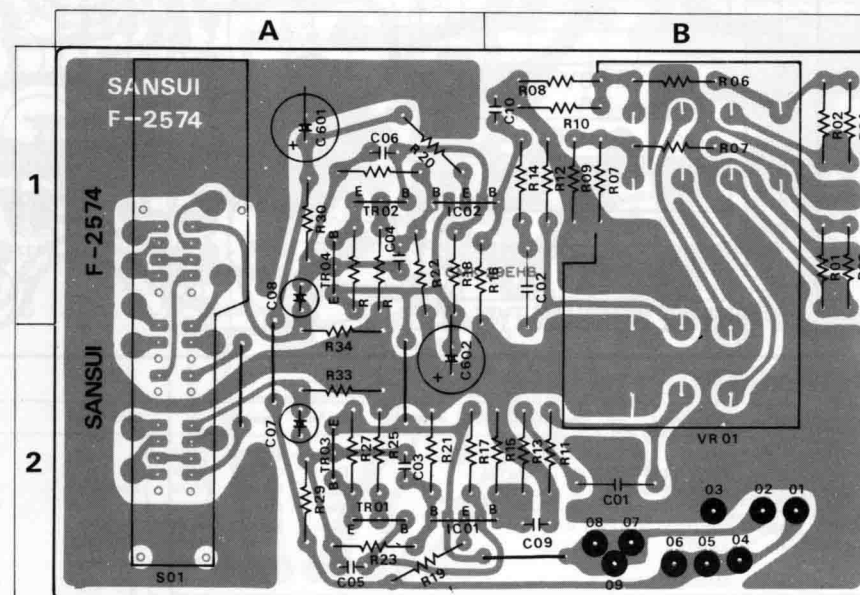
Parts List

Parts No.	Stock No.	Description	Position
TR01, 02	0306270	2SC1708 (F, G)	2B. 2B
TR03, 04	0300710, 1	2SA847 (F, G)	2B. 2B
C01, 02	0600158	0.15μF	2C. 2C
C03, 04	0600477	0.047μF	2C. 2C
C05, 06	0600567	0.056μF	2C. 2C
C07, 08	0600187	0.018μF	2C. 2C
C09, 10	0601228	0.22μF	2C. 2C
C11, 12	0660100	10pF	2B. 2B
C13, 14	0600566	0.0056μF	1B. 1C
C15, 16	0600226	0.0022μF	2C. 1C
C17, 18	0600276	0.0027μF	2C. 1C
C19, 20	0660100	10pF	2B. 2B
C21, 22	0533339	3.3μF	2B. 2B
R01, 02	0107103	10kΩ	2A. 2A
R03, 04	0107154	150kΩ	1B. 1B
R05, 06	0107183	18kΩ	1B. 1B
R07, 08	0106224	220kΩ	2C. 2C
R09, 10	0106105	1MΩ	2C. 1C
R11, 12	0106105	1MΩ	2C. 1C
R13, 14	0106823	82kΩ	2B. 2C
R15, 16	0106105	1MΩ	2C. 1C
R17, 18	0106105	1MΩ	1C
R19, 20	0106394	390kΩ	2C. 2C
R21, 22	0106394	390kΩ	2B. 2B
R23, 24	0106102	1kΩ	2C. 1C
R25, 26	0106473	47kΩ	2B. 2B
R27, 28	0106222	2.2kΩ	2B. 2B
R29, 30	0106562	5.6kΩ	2B. 2B
R31, 32	0106105	1MΩ	1B. 1C
R33, 34	0106105	1MΩ	2C. 1C
R35, 36	0106105	1MΩ	2C. 1C
R37, 38	0106102	1kΩ	1/4W C.R.
R39, 40	0107682	6.8kΩ	2B. 2B
R41, 42	0106101	100kΩ	2B. 2B
R43, 44	0106104	100kΩ	2B. 2B
VR01	1015170, 1	250kΩ Balance Volume	1A
S01	1190250	MODE Switch	1, 2A
S02	1170770	MUTING Switch	1C
S03	1170950	LOW FILTER Switch	1C
S04	1170950	HIGH FILTER Switch	1C
	2410590	4P Pin Ass'y D type	
	2410600	6P Pin Ass'y D type	

5-8. F-2574 Buffer AMP. Circuit Board

AU-9900 (Stock No. 7592881)
AU-11000 (Stock No. 7592951)

Counductor Side



Parts List

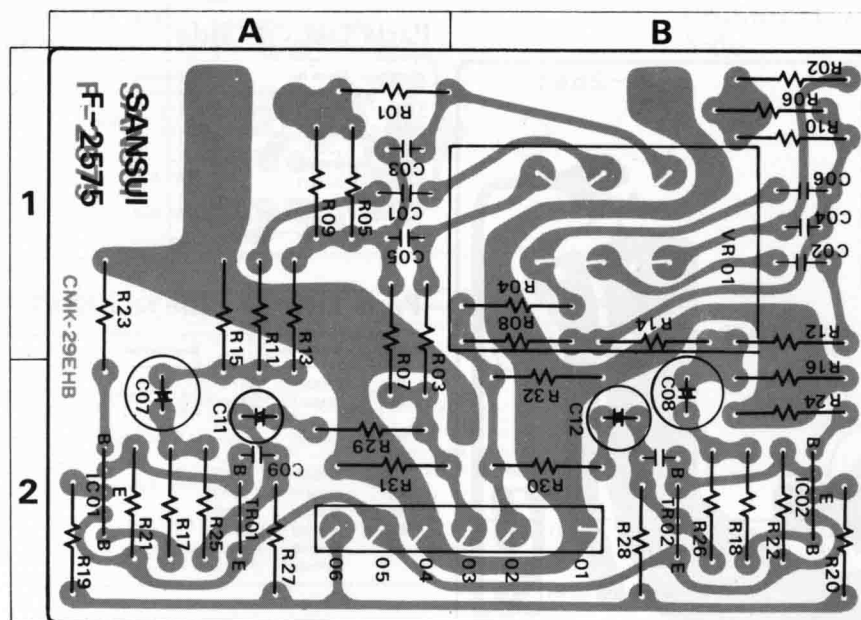
Parts No.	Stock No.	Description	Position
TR01, 02	0306070, 1	2SC1313 (F, G)	2A. 1A
TR03, 04	0306270, 1	2SC1708 (F, G)	2A. 1A
IC01, 02	0360290, 1	2SA798 (F, G)	2A, 1A, B
C01, 02	0601478	0.47μF	50V M.C.
C05, 06	0660100	10pF	50V C.C.
C07, 08	0533339	3.3μF	25V E.C.
C09, 10	0660330	33pF	50V C.C.
C601	0515100	10μF	1A
C602	0515100	10μF	50V E.C.
R01, 02	0107224	220kΩ	1B
R03, 04	0107274	270kΩ	1B
R05, 06	0107563	56kΩ	1B
R07, 08	0107393	39kΩ	1B
R09, 10	0107473	47kΩ	1B
R11, 12	0107564	560kΩ	2B. 1B
R13, 14	0107332	33kΩ	2B. 1B
R15, 16	0107684	680kΩ	2B. 1A
R17, 18	0107103	10kΩ	1/4W C.R.
R19, 20	0107124	120kΩ	2A. 1B
R21, 22	0107472	47kΩ	2A. 1A
R23, 24	0107273	27kΩ	2A
R25, 26	0107101	100kΩ	2A
R27, 28	0107473	47kΩ	2A
R29, 30	0107682	6.8kΩ	2A. 1A
R33, 34	0107104	100kΩ	2A
R35, 36	0107471	470Ω	
VR01	1090120	250kΩ × 2 Volume	1, 2B
S01	1190290	Tone & Filter Switch	1, 2A

5-9. F-2575 Tone-Midrange Circuit Board

AU-9900 (Stock No. 7561071)

AU-11000 (Stock No. 7561121)

Couductor Side



Parts List

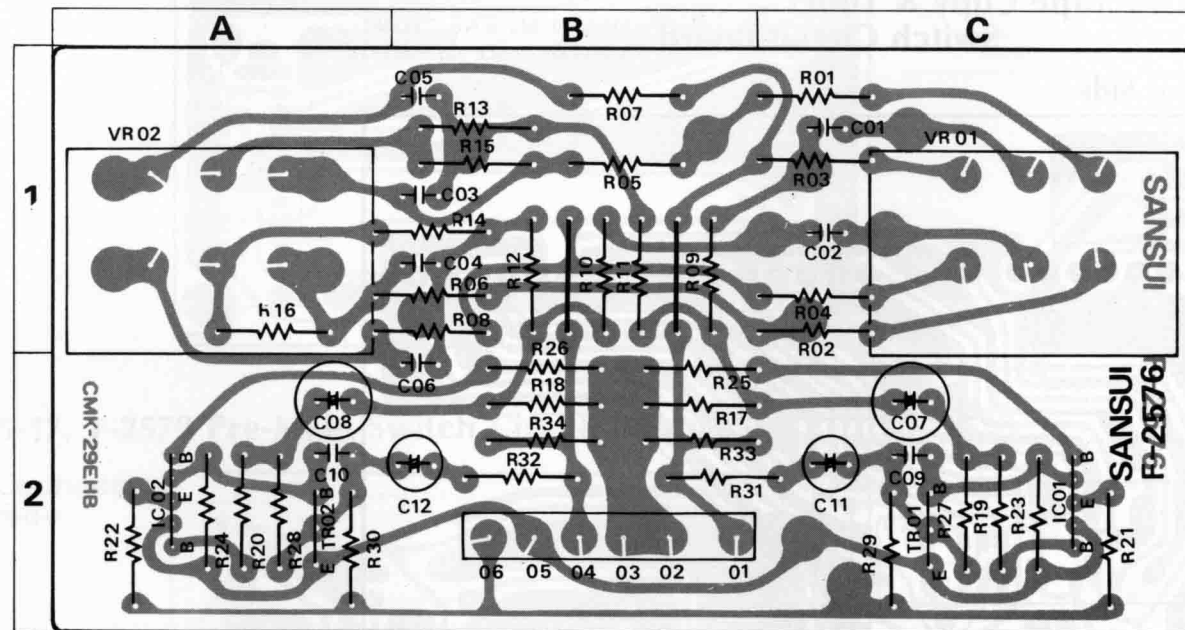
Parts No.	Stock No.	Description	Position
TR01, 02	0306270, 1	2SC1708 (F, G) Transistor	1 B, 1 A
IC01, 02	0360290, 1	2SA798 (F, G) IC	1 B, 1 A
C01, 02	0600686	0.0068µF	2 B, 2 A
C03, 04	0600107	0.01µF	2 B, 2 A
C05, 06	0600107	0.01µF	2 B, 2 A
C07, 08	0530470	47µF 6.3V E.C.	1 B, 1 A
C09, 10	0660680	68pF 50V C.C.	1 B, 1 A
C11, 12	0533339	3.3µF 25V E.C.	1 B, 1 A
R01, 02	0107472	4.7kΩ	2 B, 2 A
R03, 04	0107472	4.7kΩ	1.2B, 2 A
R05, 06	0107473	47kΩ	2 B, 2 A
R07, 08	0107473	47kΩ	1.2B, 2 A
R09, 10	0107105	1MΩ	2 B, 2 A
R11, 12	0107273	27kΩ	2 B, 2 A
R13, 14	0107223	22kΩ	2 B, 2 A
R15, 16	0107104	100kΩ	2 B, 1 A
R17, 18	0107102	1kΩ	1 B, 1 A
R19, 20	0107124	120kΩ	1 B, 1 A
R21, 22	0107682	6.8kΩ	1 B, 1 A
R23, 24	0107102	1kΩ	2 B, 1 A
R25, 26	0107105	1MΩ	1 B, 1 A
R27, 28	0107682	6.8kΩ	1 B, 1 A
R29, 30	0107101	100Ω	1 B, 1 A
R31, 32	0107104	100kΩ	1 B, 1 A
VR01	1090150, 1	50kΩ (B) × 2 MID, Range Volume 2A	
	2410700	6P Pin Ass'y F type	

5-10. F-2576 Tone-Bass & Treble Circuit Board

AU-9900 (Stock No. 7561081)

AU-11000 (Stock No. 7561131)

Couductor Side



Parts List

Parts No.	Stock No.	Description	Position
TR01, 02	0306270, 1	2SC1708 (F, G) Transistor	2 C, 2 A
IC01, 02	0360290, 1	2SA798 (F, G) IC	2 C, 2 A
C01, 02	0620301	300pF 50V P.C.	1 C, 1 C
C03, 04	0600157	0.015µF	1 B, 1 B
C05, 06	0600157	0.015µF	1 B, 2 B
C07, 08	0530470	47µF 6.3V E.C.	2 C, 2 A
C09, 10	0660680	68pF 50V C.C.	2 C, 2 A
C11, 12	0533339	3.3µF 25V E.C.	2 C, 2 B
R01, 02	0107332	3.3kΩ 1/4W C.R.	1 C

Parts No.	Stock No.	Description	Position
R03, 04	0107332	3.3kΩ	1 C
R05, 06	0107153	15kΩ	1 B
R07, 08	0107153	15kΩ	1 B
R09, 10	0107153	15kΩ	1 B
R11, 12	0107273	27kΩ	1 B
R13, 14	0107223	2.2kΩ	1 B
R15, 16	0107105	1MΩ	1 B, 2 A
R17, 18	0107104	100kΩ	2 B
R19, 20	0107102	1kΩ	2 C, 2 A
R21, 22	0107124	120kΩ	2 C, 2 A

Parts No.	Stock No.	Description	Position
R23, 24	0107682	6.8kΩ	2 C, 2 A
R25, 26	0107102	1kΩ	2 B
R27, 28	0107105	1MΩ	2 C, 2 A
R29, 30	0107682	6.8kΩ	2 C, 2 A
R31, 32	0107101	100Ω	2 B
R33, 34	0107104	100kΩ	2 B
VR01	1090150, 1	50kΩ (B) × 2 Treble Volume	1 C
VR02	1090150, 1	50kΩ (B) × 2 Bass Volume	1 A
	2410700	6P Pin Ass'y F type	

5-11. F-2581 Power AMP. (+) Circuit Board

AU-9900 (Stock No. 7592901)

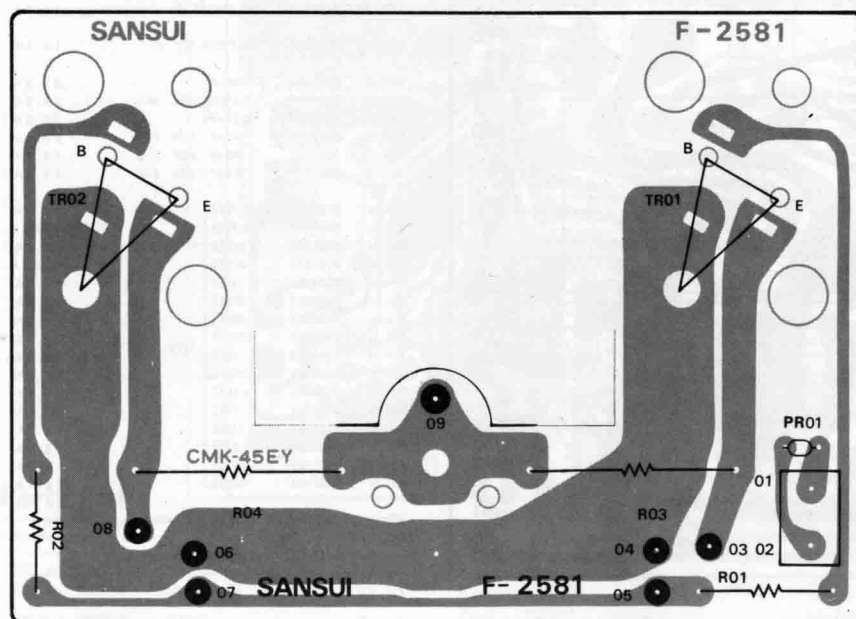
AU-11000 (Stock No. 7592971)

5-12. F-2581 Power AMP. (-) Circuit Board

AU-9900 (Stock No. 7592911)

AU-11000 (Stock No. 7592981)

Counductor side



Parts List <+ Side>

Parts No.	Stock No.	Description
TR01	0305841, 2	2SC1116 (O. Y) } Transistor
TR02	0305841, 2	2SC1116 (O. Y) }
R01	0103479	4.7Ω } 1/2W C.R.
R02	0103479	4.7Ω }
R03	0135338	0.33Ω } 5W Ce.R.
R04	0135338	0.33Ω }
2030040		Power Transistor Socket

Parts List <- Side>

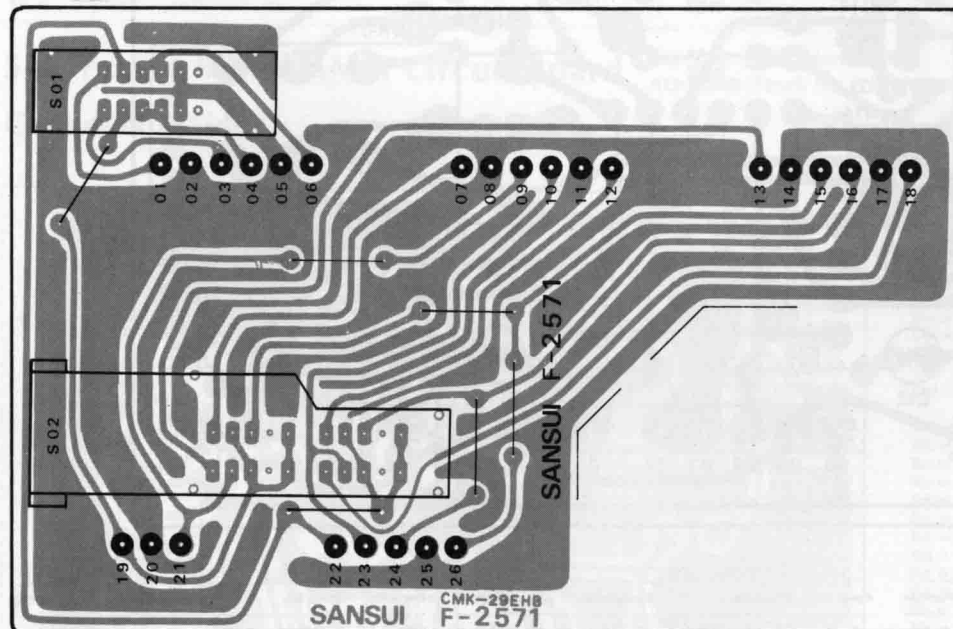
Parts No.	Stock No.	Description
TR01	0300521, 2	2SA747 (O. Y) } Transistor
TR01	0330521, 2	2SA747 (O. Y) }
PR01	0320120	Posistor 12.5V DC 500Ω
R01	0103479	4.7Ω } 1/2W C.R.
R02	0103479	3.7Ω }
R03	0135338	0.03Ω } 5W Ce.R.
R04	0135338	0.03Ω }
2030040		Power Transistor Soker
2410650		2P Pin Ass'y D type

5-13. F-2571 Tape Copy & Tuner Switch Circuit Board

AU-9900 (Stock No. 7592861)

AU-11000 (Stock No. 7592931)

Counductor Side



Parts List

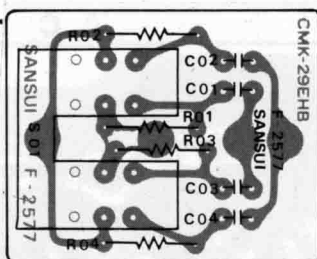
Parts No.	Stock No.	Description
S01	1170870	Tuner Switch
S02	1190280	Tape Copy Switch

5-14. F-2577 Tone Selector (Treble)

Circuit Board

AU-9900 (Stock No. 7561091)
AU-11000 (Stock No. 7561141)

Conductor Side



Parts List

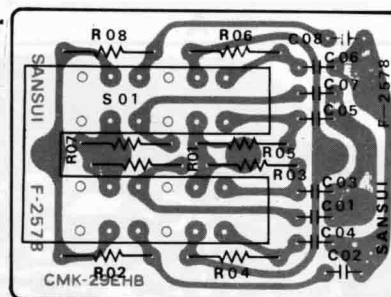
Parts No.	Stock No.	Description
C01, 02	0620331	330pF
C03, 04	0620911	910pF
		50V P.C.
R01, 02	0107105	1M Ω
R03, 04	0107105	1M Ω
		1/4W C.R.
S01	1131150	Tone Selector, Treble Switch

5-15. F-2578 Tone Selector (Bass)

Circuit Board

AU-9900 (Stock No. 7561101)
AU-11000 (Stock No. 7561151)

Conductor Side



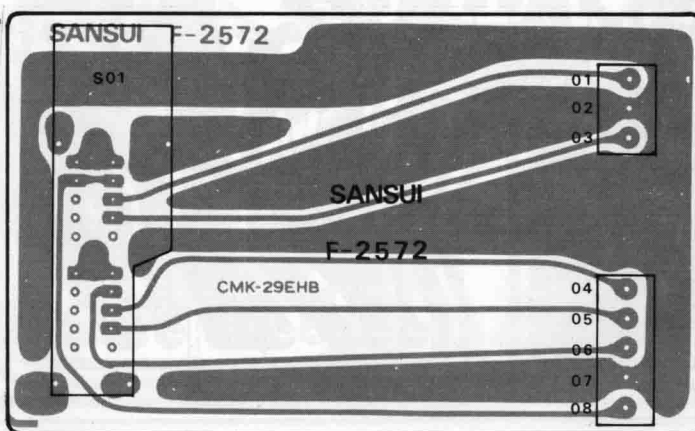
Parts List

Parts No.	Stock No.	Description
C01, 02	0600397	0.039 μ F
C03, 04	0600397	0.039 μ F
C05, 06	0600127	0.012 μ F
C07, 08	0600127	0.012 μ F
		50V M.C.
R01, 02	0107105	1M Ω
R03, 04	0107105	1M Ω
R05, 06	0107105	1M Ω
R07, 08	0107105	1M Ω
		1/4 W C.R.
S01	1131140	Tone Selector Switch

5-16. F-2572 Tape Play Circuit Board

AU-9900 (Stock No. 7592871)
AU-11000 (Stock No. 7592941)

Coundnctor Side



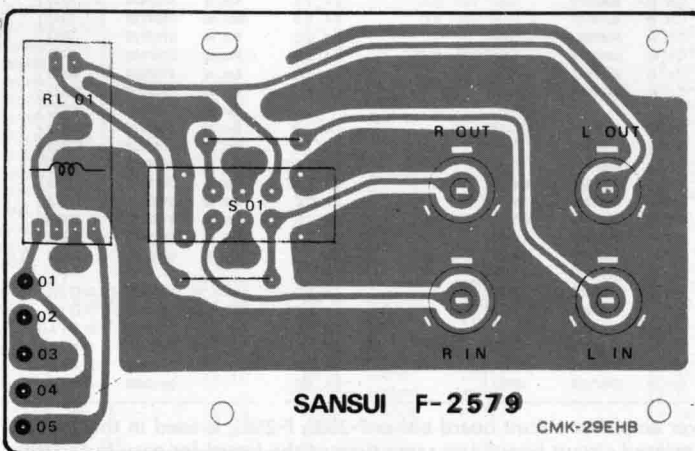
Parts List

Parts No.	Stock No.	Description
S01	1190270	Tape Play Switch
	2410760	3P Pin Ass'y
	2410780	6P Pin Ass'y

5-17. F-2579 Pre-Main Switch Circuit Board

AU-9900 (Stock No. 7592891)
AU-11000 (Stock No. 7592961)

Conductor Side



Parts List

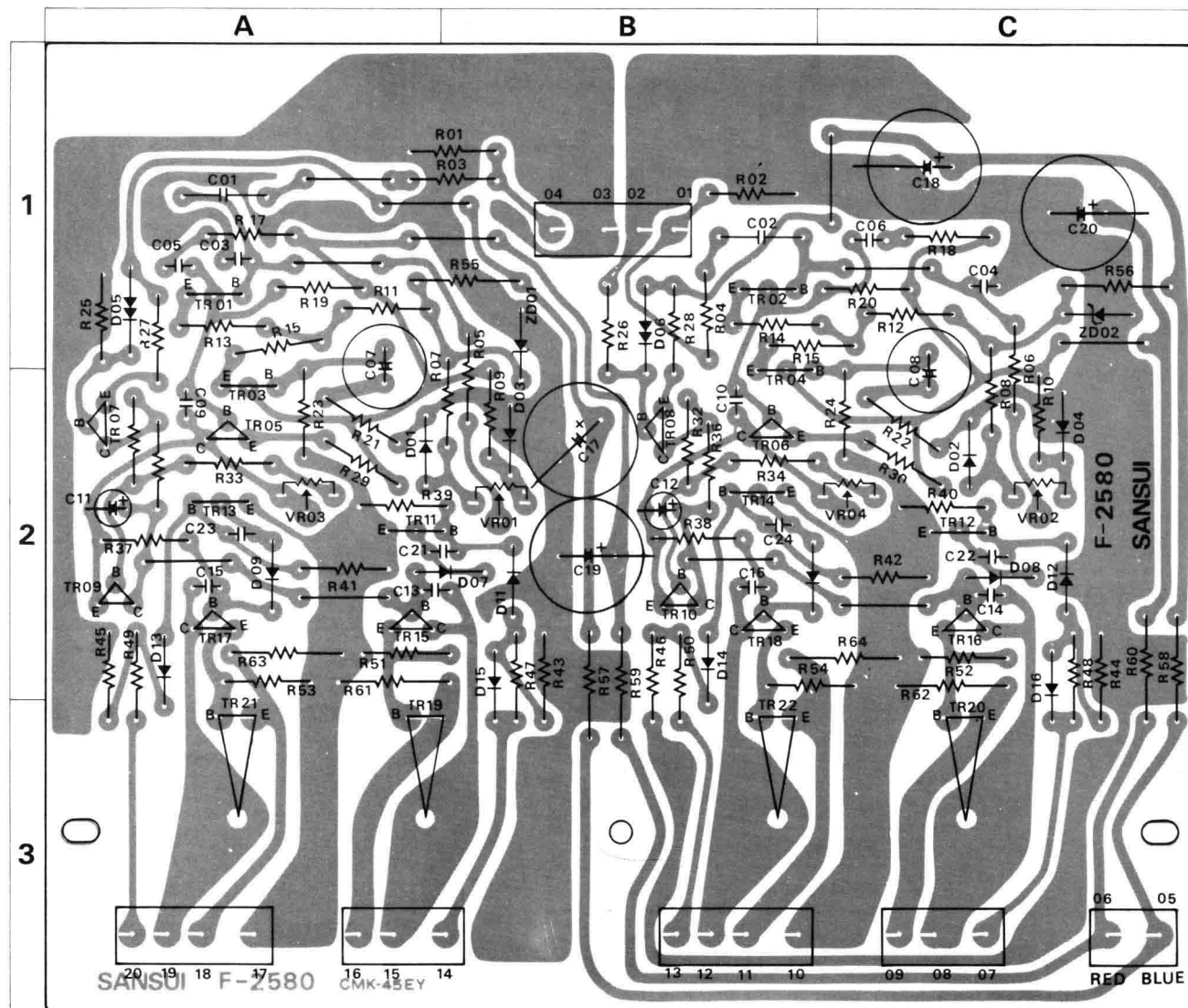
Parts No.	Stock No.	Description
R901, 902	0107473	47KΩ
RL01	1150320	Relay
S01	1110320	PRE-MAIN Switch
	2430260	1P Jack (white)
	2430270	1P Jack (red)

5-18. F-2580 Driver AMP. Circuit Board

AU-9900 (Stock No. 7571171)

AU-11000 (Stock No. 7571181)

Counductor Side



Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
TR01, 02	0300710, 1	2SA847 (F, G)	1A, 1B	C05, 06	0660101	100pF 50V C.C.	1A, 1C	R31, 32	0107562	5.6kΩ	2A, 2B
TR03, 04	0300710, 1	2SA847 (F, G)	2A, 1B	C07, 08	0531101	100pF 10V E.C.	1.2A, 1.2C	R33, 34	0107102	1kΩ	2A, 2B
TR05, 06	0306260, 1	2SC1628 (O, Y)	2A, 2B	C09, 10	0660220	22pF 50V C.C.	2A, 2B	R35, 36	0107470	47Ω	2A, 2B
TR07, 08	0300700, 1	2SA818 (O, Y)	2A, 2B	C11, 12	0515109	1μF 50V E.C.	2A, 2B	R37, 38	0107102	1kΩ	2A, 2B
TR09, 10	0305871, 2	2SC984 (B, C)	2A, 2B	C13, 14	0660330	33pF	2A, 2C	R39, 40	0107102	1kΩ	2A, 2C
TR11, 12	0305640, 1	2SC735 (O, Y)	2A, 2C	C15, 16	0660330	33pF	2A, 2B	R41, 42	0107102	1kΩ	2A, 2C
TR13, 14	0300220, 1	2SA562 (O, Y)	2A, 2B	C17, 18	0519903	100pF	2B, 1C	R43, 44	0107223	22kΩ	2B, 2C
TR15, 16	0305900, 1	2SC1124 (1, 2)	2A, 2C	C19, 20	0519903	100pF	2B, 1C	R45, 46	0107223	22kΩ	2A, 2B
TR17, 18	0300480, 1	2SA706-5 (1, 2)	2A, 2B					R47, 48	0107471	470Ω	2B, 2C
TR19, 20	0308441, 2	2SD382 (M, L)	3A, 3C	R01, 02	0107474	470kΩ	1AB, 1B	R49, 50	0107471	470Ω	2A, 2B
TR21, 22	0303271, 2	2SB537 (M, L)	3A, 3B	R03, 04	0107103	10kΩ	1AB, 1B	R51, 52	0107122	1.2kΩ	2A, 2B
				R05, 06	0107154	150kΩ	1.2B, 1.2C	R53, 54	0107122	1.2kΩ	2A, 2B
D01, 02	0340090	Diode	2A, 2C	R07, 08	0107682	6.8kΩ	2B, 1.2C	R55, 56	0103123	12kΩ	1A, B, 1C
D03, 04	0340090	Diode	2B, 2C	R09, 10	0107393	39kΩ	2B, 2C	R57, 58	0103221	220Ω	2B, 2C
D05, 06	0310490	Diode	1A, 1B	R11, 12	0107472	47kΩ	1A, 1C	R59, 60	0103221	220Ω	2B, 2C
D07, 08	0311050	15953	2AB, 2C	R13, 14	0107470	47Ω	1A, 1B	R61, 62	0103680	68Ω	2A, 2C
D09, 10	0311050	15953	2A, 2B	R15, 16	0107470	47Ω	1A, 1C	R63, 64	0103680	68Ω	2A, 2A, B
D11, 12	0311050	15953	2B, 2C	R17, 18	0107221	220Ω	1A, 1C				
D13, 14	0311050	15953	2A, 2B	R19, 20	0107182	1.8kΩ	1A, 1C	VR01, 02	1031470, 1	5kΩ (B)	DC 0V Volume
D15, 16	0311050	15953	2B, 2C	R21, 22	0107222	2.2kΩ	2A, 2C	VR03, 04	1031441	1kΩ (B)	Bias Current Volume
ZD01, 02	0316250	RD-10E (B)	1B, 1C	R23, 24	0107104	100kΩ	2A, 2C				
				R25, 26	0107473	47kΩ	1A, 1B	2410580	3P Pin Ass'y D type		
C01, 02	0601478	0.47μF 50V M.C.	1A, 1B	R27, 28	0107121	120Ω	1A, 1B	2410590	4P Pin Ass'y D type		
C03, 04	0660470	47pF 50V C.C.	1A, 1C	R29, 30	0107121	120Ω	2A, 2C	2410650	2P Pin Ass'y D type		
								2410680	4P Pin Ass'y F type		

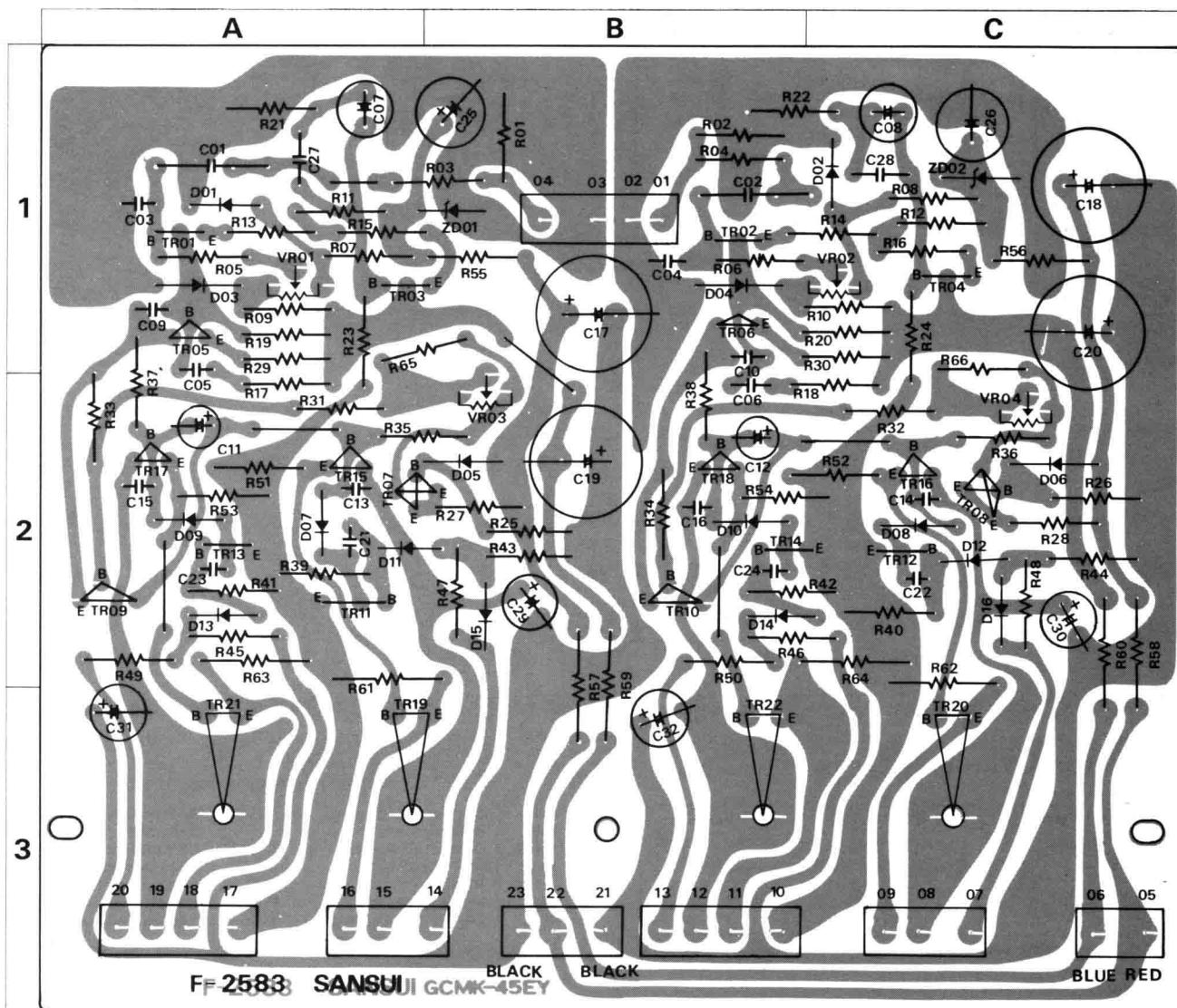
* Driver amplifier circuit board either F-2580, F-2583, is used in this model. When replacing the printed circuit board, use same type of the board for easy installation.

5-19. F-2583 Driver AMP. Circuit Board

AU-9900 (Stock No. 7571311)

AU-11000 (Stock No. 7571301)

Countdown Side

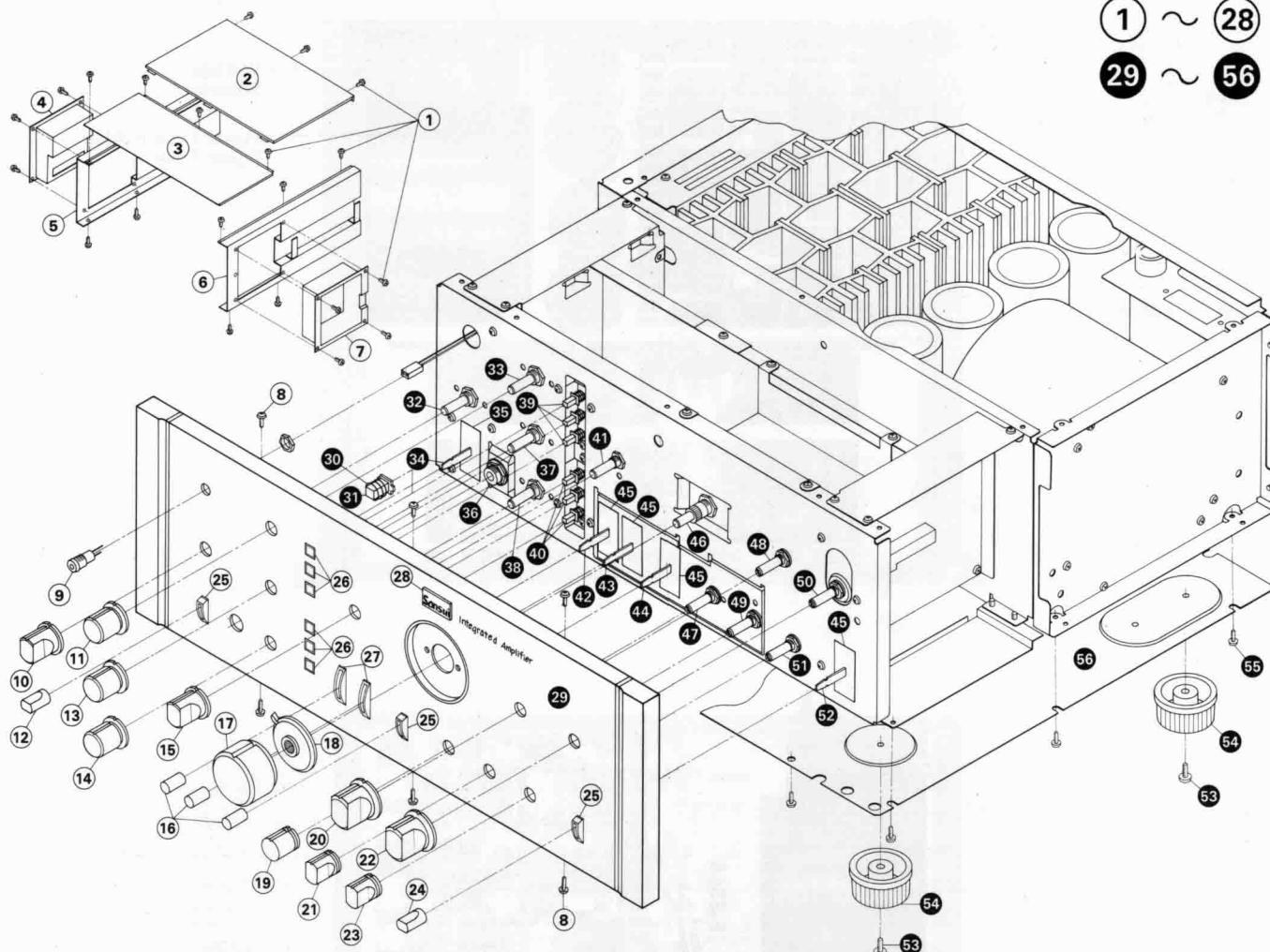


Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
TR01,02	0300470,1	2SA726 (F, G)	1A, 1B	C07,08	0531101	100µF 10V E.C.	1A, 1C	R27,28	0107121	120Ω	2B, 2C
TR03,04	0300470,1	2SA726 (F, G)	1A.B, 1C	C09,10	0660220	22pF 50V C.C.	1A, 1B	R29,30	0107121	120Ω	1A, 1C
TR05,06	0305900,1	2SC1124 (1, 2)	1A, 1B	C11,12	0515109	1µF 50V E.C.	2A, 2B	R31,32	0107222	2.2kΩ	2A, 2C
	0306260,1	2SC1628 (O, Y)	1A, 1B	C13,14	0660330	33pF	2A, 2C	R33,34	0107102	1kΩ	2A, 2C
TR07,08	0300700,1	2SA818 (O, Y)	2A.B, 2C	C15,16	0660330	33pF	2A, 2B	R35,36	0107470	47Ω	2A.B, 2C
	0300770,1	2SA896-1-1, 2	2A.B, 2C	C17,18	0519903	100µF	1B, 1C	R37,38	0107102	1kΩ	1.2A, 1.2B
TR09,10	0305871,2	2SC984 (B, C)	2A, 2B	C19,20	0519903	100µF	2B, 1C	R39,40	0107102	1kΩ	2A, 2C
TR11,12	0305640,1	2SC735 (O, Y)	2A, 2C	C21,22	0601106	0.001µF	2A, 2C	R41,42	0107102	1kΩ	2A, 2B,C
TR13,14	0300220,1	2SA562 (O, Y)	2A, 2B,C	C23,24	0601106	0.001µF	2A, 2B	R43,44	0107223	22kΩ	2B, 2C
TR15,16	0305900,1	2SC1124 (1, 2)	2A, 2C	C25,26	0512221	220µF 16V E.C.	1B, 1C	R45,46	0107223	22kΩ	2A, 2B,C
TR17,18	0300480,1	2SC706-5-1, 2	2A, 2B	C27,28	0601108	0.1µF 50V M.C.	1A, 1C	R47,48	0107471	470Ω	2B, 2C
TR19,20	0308441,2	2SD382 (M, L)	3A.B, 3C	C29,30	0516339	3.3µF	2B, 2C	R49,50	0107471	470Ω	2A, 2B
TR21,22	0303271,2	2SB537 (M, L)	3A, 3B	C31,32	0516339	3.3µF	3A, 3B	R51,52	0107122	1.2kΩ	2A, 2C
								R53,54	0107122	1.2kΩ	2A, 2B,C
D01,02	0340090	DS-430	1A, 1C	R01,02	0107474	470kΩ	1B	R55,56	0103562	5.6kΩ	1B, 1C
D03,04	0340090	DS-430	1A, 1B	R03,04	0107103	10kΩ	1A.B, 1B	R57,58	0103221	220Ω	2.3B, 2C
D05,06	0340120	VD1212	2B, 2C	R05,06	0107154	150kΩ	1A, 1B	R59,60	0103221	220Ω	2.3B, 2C
D07,08	0311050	1S953	2A, 2C	R07,08	0107682	6.8kΩ	1A, 1C	R61,62	0103680	68Ω	2A, 2C
D09,10	0311050	1S953	2A, 2B	R09,10	0107273	27kΩ	1A, 1C	R63,64	0103680	68Ω	2A, 2C
D11,12	0311050	1S953	2A.B, 2C	R11,12	0107472	4.7kΩ	1A, 1C	R65,66	0107472	4.7kΩ	1A, 1C
D13,14	0311050	1S953	2A, 2B	R13,14	0107470	47Ω	1A, 1C	VR01,02	1031470,1	5kΩ (B) DC 0V Volume	1A, 1C
D15,16	0311050	1S953	2B, 2C	R15,16	0107470	47Ω	1A, 1C	VR03,04	1031480,1	10kΩ (B) Bias Current Volume	2B, 2C
ZD01,02	0316310	RD-13E (B)	1B, 1C	R17,18	0107221	220Ω	2A, 2C				
				R19,20	0107821	820Ω	1A, 1C				
C01,02	0601478	0.47µF 50V M.C.	1A, 1B	R21,22	0107222	2.2kΩ	1A, 1B,C				
C03,04	0660470	47pF	1A, 1B	R23,24	0107104	100kΩ	1A, 1C				
C05,06	0660101	100pF	1A, 2B	R25,26	0107473	47kΩ	2B, 2C				

5-21. Other Parts (Front Side)

① ~ ②⑧
②⑨ ~ ⑤⑥

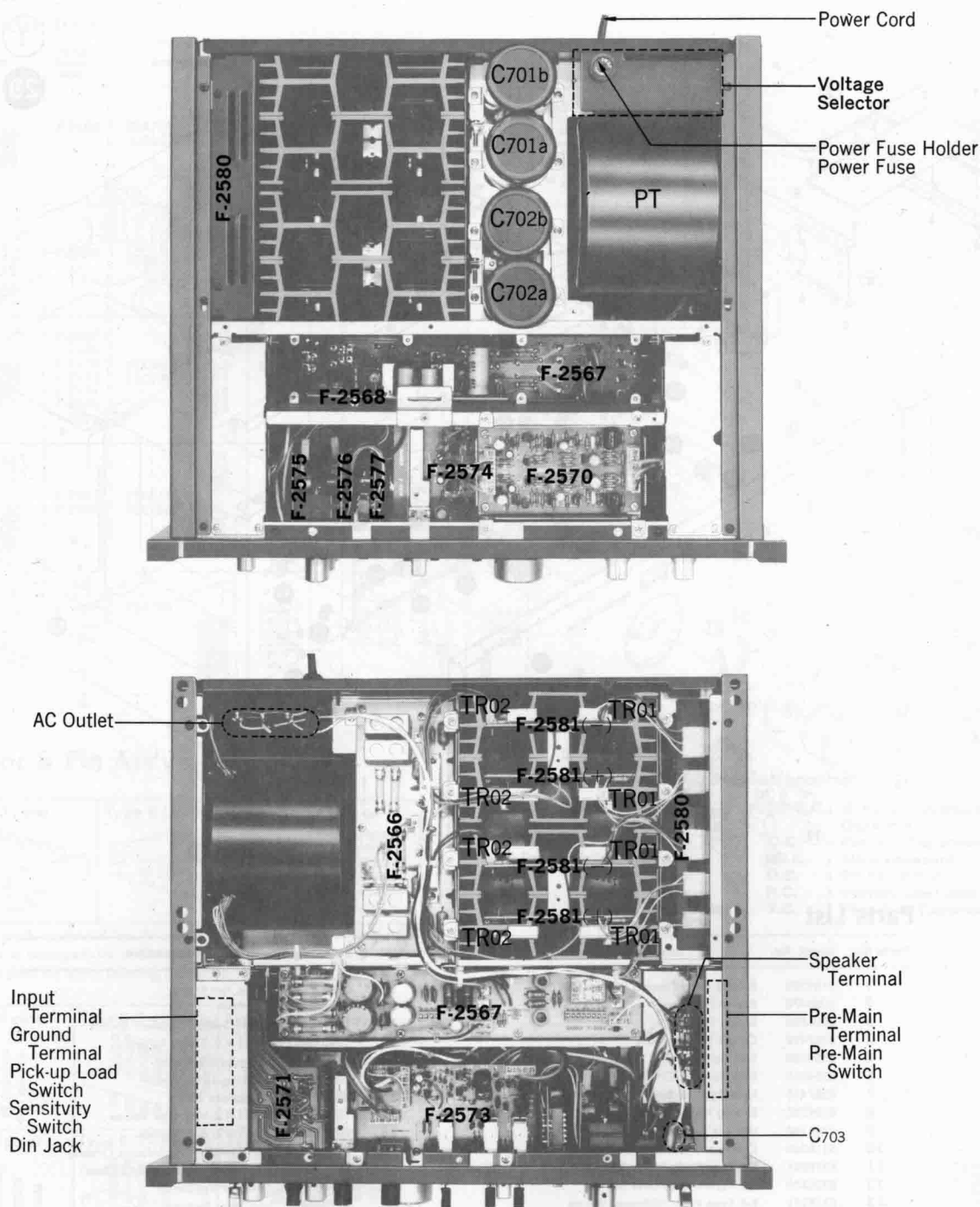


Parts List

Parts No.	Stock. No.	Description
1	5109222	Binding Head Tapping Screw M3 X 8
2	5006470	Bonnet (A)
3	5006520	Bonnet (B)
4	5287420	Output Terminal Base
5	5304080	Side Bonnet L-CH
6	5304090	Side Bonnet R-CH
7	5287410	Input Terminal Base
8	5109222	Binding Head Tapping Screw M3 X 8
9	7726140	LED Ass'y, Protector Indicator
10	5318260	C-6 Type Knob, Speaker Switch
11	5318251	B-6 Type Knob, Treble Volume
12	5326510	E-2 Type Knob, Power Switch
13	5318251	B-6 Type Knob, Midrange Volume
14	5318251	B-6 Type Knob, Bass Volume
15	5318260	C-6 Type Knob, Tone & Filter Switch
16	5326520	E-3 Type Knob, Filter & Muting Switch
17	5318360	G-6 Type Knob, Volume
18	5326540	Level Set Knob
19	5318270	D-6 Type Knob, Balance Volume
20	5318370	H-6 Type Knob, Tape Play Switch
21	5318280	F-6 Type Knob, Mode Switch
22	5318370	H-6 Type Knob, Input Selector
23	5318280	F-6 Type Knob, Tape Copy Switch
24	5326510	E-2 Type Knob, Tuner Switch
25	5286731	Lever Guide (1)
26	5286721	Knob Guide
27	5286741	Lever Guide (2)
28	5336580	Sansui Mark
29	7007140	Panel Ass'y (AU-11000)
	7007150	Panel Ass'y (AU-9900)

Parts No.	Stock. No.	Description
30	6906480	Spring, Push Knob
31	5326530	Push Knob
32	1101700, 1	Rotary Switch, Speakers Switch
33	1090150, 1	50k Ω X 2, Treble Volume
34	1170330	Lever Switch, Power
35	5047470	Masking, Lever Switch
36	2430190	Headphone Jack
37	1090150, 1	50k Ω X 2, Midrange Volume
38	1090150, 1	50k Ω X 2, Bass Volume
39	1131150	Push Switch, Tone Selector (Treble)
40	1131140	Push Switch, Tone Selector (Bass)
41	1190290	Tone & Filter Switch
42	1170950	Low Filter Switch
43	1170950	High Filter Switch
44	1170770	Lever Switch, Muting
45	5047470	Masking, Lever Switch
46	1090120	250k Ω , Volume
47	1015170, 1	250k Ω , Balance Volume
48	1190270	Tape Play Switch
49	1190250	Mode Switch
50	1190260	Input Selector
51	1190280	Tape Copy Switch
52	1170870	Lever Switch, Tuner
53	5101161	Binding Head Screw, M4 X 10
54	5517050	Leg
55	5109222	Binding Head Tapping Screw, M3 X 8
56	5058491	Bottom Plate

5-22. Other Parts (Top & Bottom Side)



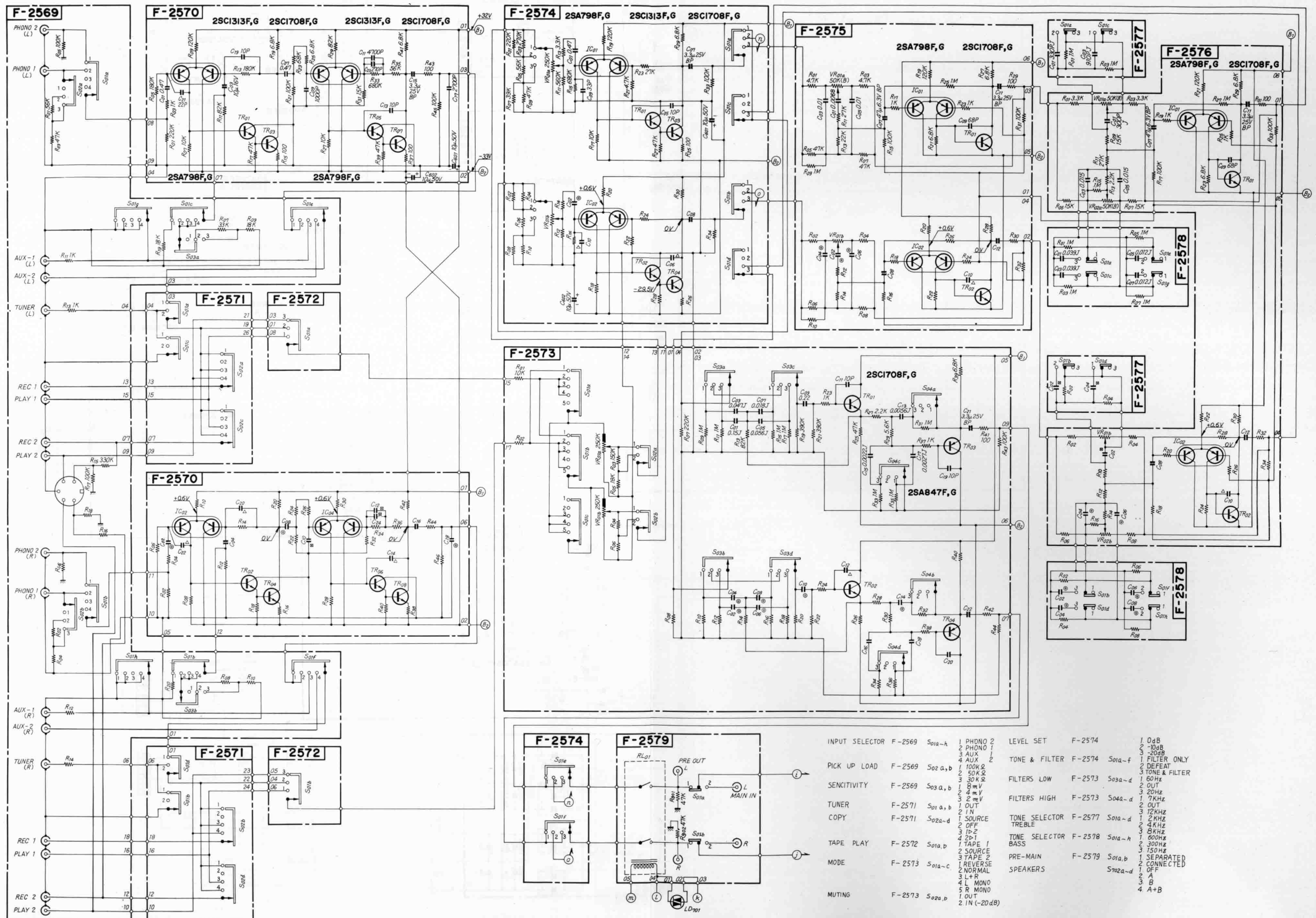
Parts List

Parts No.	Stock No.	Description
F-2581 (+ Side)		
TR01, 02	0305841, 2	25C1116
F-2581 (- Side)		
TR01, 02	0300521	25A747
C701, 702	0559514	10000µF 63V×2 E.C. (AU-11000)
C701, 702	0559513	6800µF 63V×2 E.C. (AU-9900)
C703	0659801	0.1µF 150V C.C.
F701	(0431280	5A 250V (AC 100V~120V)
	(0431320	10A 250V (AC 220V~240V)
	2300060	Power Fuse Holder
	3800250	Power Cord
	2290150	Ground Terminal
	2410091	Voltage Selector plug

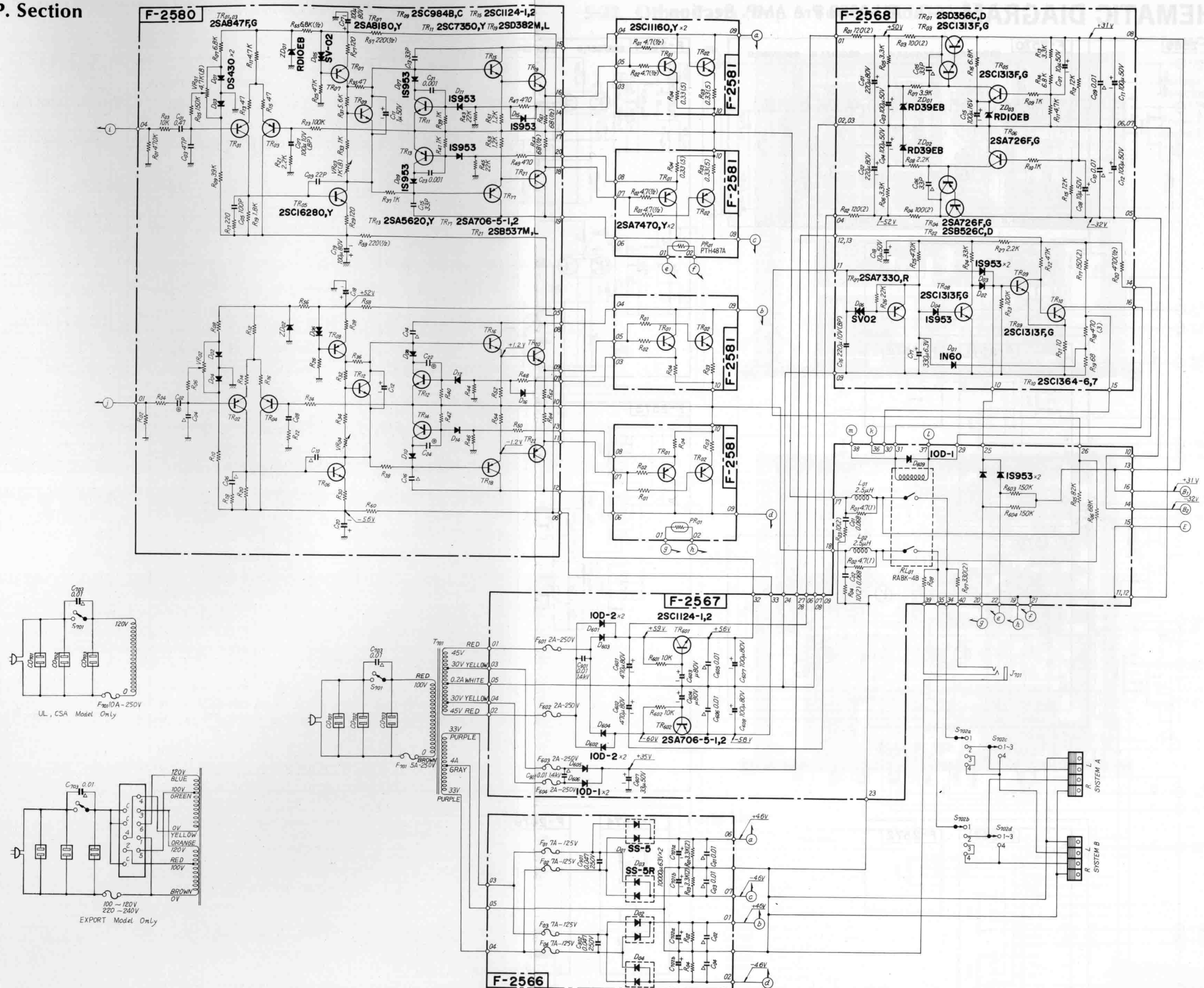
Parts No.	Stock No.	Description
	2410830	Voltage Selector Socket
	2090030	Din Jack
	1110310	Pick-up Load Switch
	1110310	Sensitivity Switch
	1110320	Pre-Main Switch
	2430270	Pre-Main Terminal (red)
	2430260	Pre-Main Terminal (white)
	2290160	Speaker Terminal
	2450060	AC Outlet
	2430270	Input Terminal (red)
	2430260	Input Terminal (white)
	4002280	Power Transformer (AU-11000)
	4002290	Power Transformer (AU-9900)

6. SCHEMATIC DIAGRAM / 6-1. AU-9900 Pre AMP. Section

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

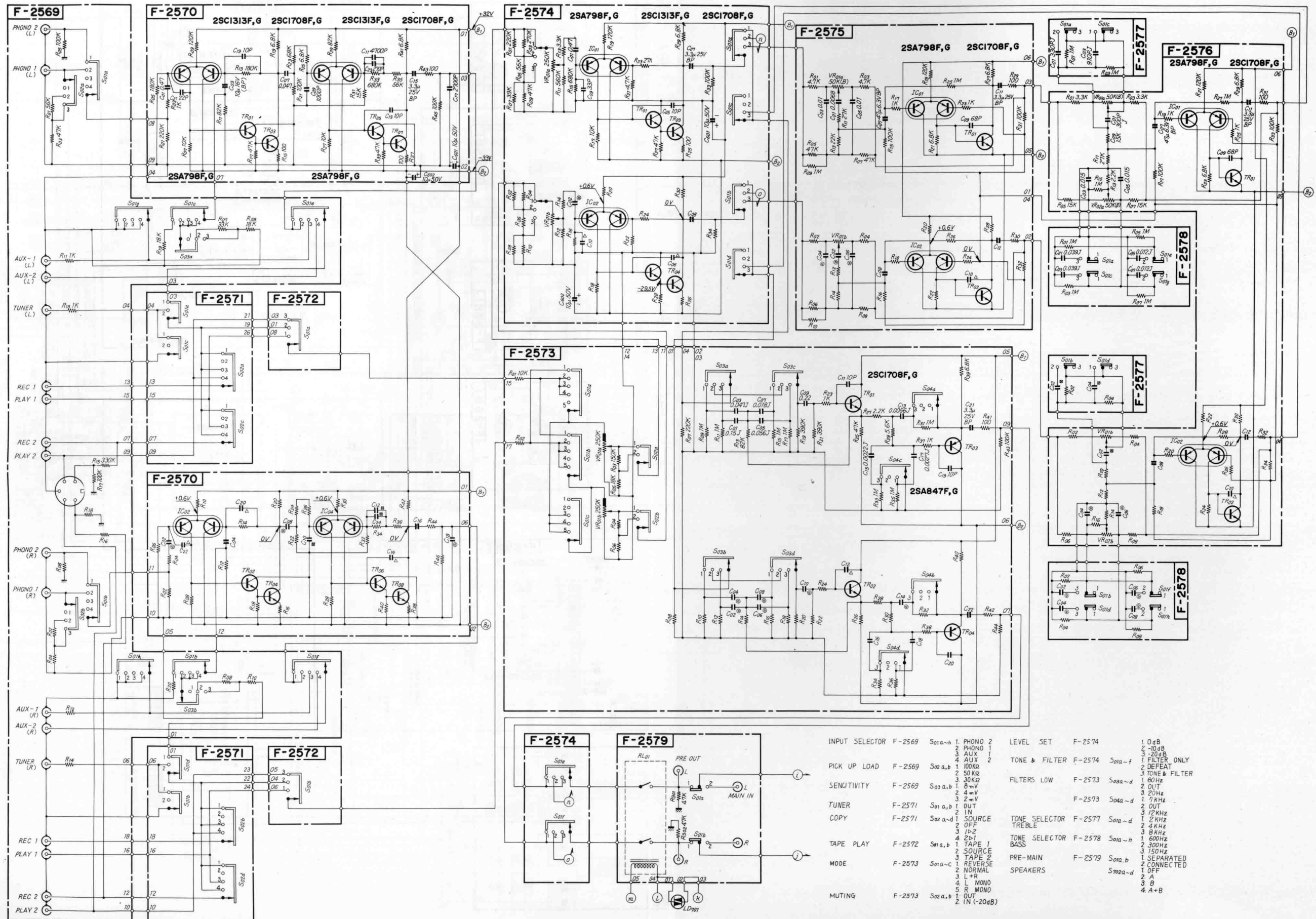


6-2. AU-9900 Power AMP. Section



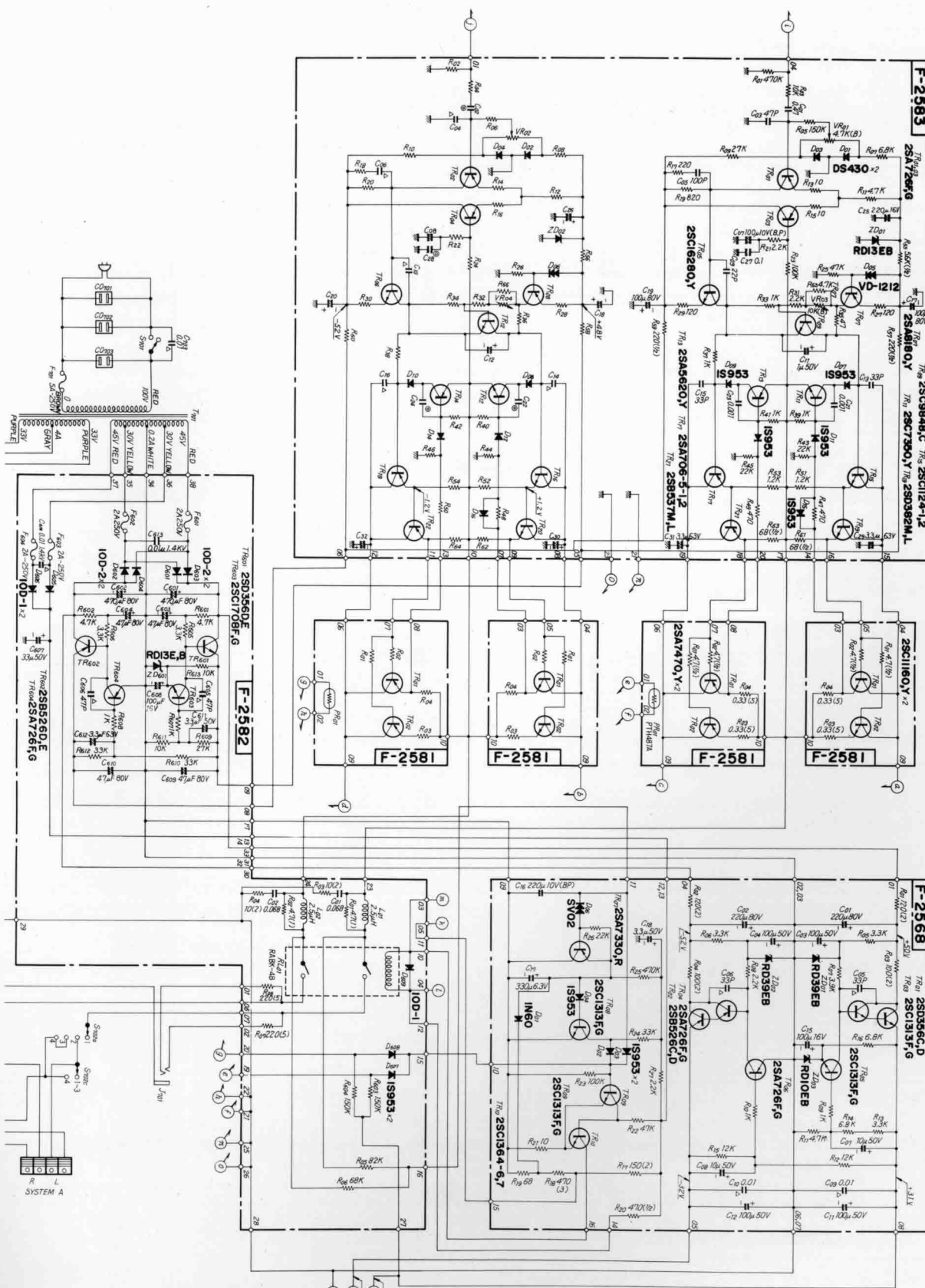
6-3. AU-11000 Pre AMP. Section

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



6-5. F-2582, F-2583

* Power supply circuit board either F-2567 or F-2582 is used and driver amplifier either F-2580 or F-2583 is used in this model.

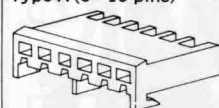
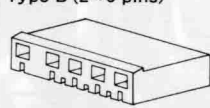


5-20. Figures Semiconductors

SEMICONDUCTORS	COMPLETE CIRCUIT BOARD	SEMICONDUCTORS	COMPLETE CIRCUIT BOARD	SEMICONDUCTORS	COMPLETE CIRCUIT BOARD	SEMICONDUCTORS	COMPLETE CIRCUIT BOARD
2SA733 2SC1364 	F-2568	2SA706 2SC1124 	F-2567 F-2580	IN60 	F-2568	SS-5 	F-2566
2SC984 	F-2580	2SA747 2SC1116 	F-2581	10D-1 10D-2 	F-2567	SS-5R 	F-2566
2SA726 2SA847 2SC1313 2SC1708 	F-2567 F-2568 F-2570 F-2573 F-2574 F-2575 F-2576	2SA562 2SC735 	F-2580	DS430 VD1212 	F-2580		
2SB526 	F-2567 F-2568	2SA818 2SC1628 	F-2580	SV-02 	F-2568 F-2580		
2SB537 2SD356 2SD382 	F-2567 F-2568 F-2580	2SA798 	F-2570 F-2574 F-2575 F-2576	RD-10E RD-13E RD-39E 	F-2567 F-2568 F-2580		

Connector & Pin Ass'y

Connector

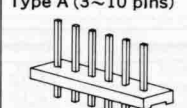
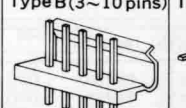
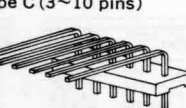
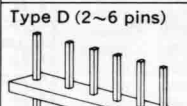
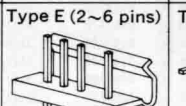
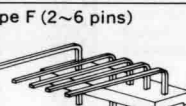
Type A (3~10 pins)	Type B (2~6 pins)	Stock No.
		2 Pins 2420250 3 Pins 2420220 4 Pins 2420230 5 Pins 2420210 6 Pins 2420240

NOTE: Since stock number of female connectors (type B) with wires are not shown in each parts list of Complete circuit board, please refer to the above parts list when ordering the connector.

Abbreviations

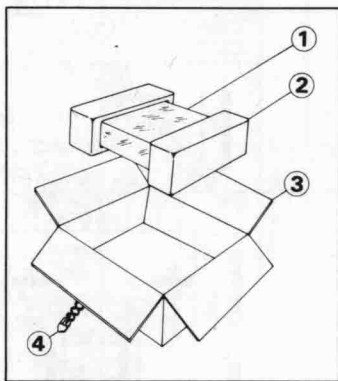
C.R. : Carbon Resistor	BP.E.C.: Bi-Polar Electrolytic Capacitor
S.R. : Solid Resistor	C.C. : Ceramic Capacitor
Ce.R. : Cement Resistor	Mi.C. : Mica Capacitor
M.R. : Metallized Film Resistor	O.C. : Oil Capacitor
M.C. : Mylar Capacitor	P.C. : Polystyrene Capacitor
E.C. : Electrolytic Capacitor	T.C. : Tantalum Capacitor

Pin Ass'y

Type A (3~10 pins)	Type B (3~10 pins)	Type C (3~10 pins)
		
Type D (2~6 pins)	Type E (2~6 pins)	Type F (2~6 pins)
		

7. PACKING LIST

Parts No.	Stock No.	Description
1	9116051	Vinyl Cover
2	9027910	Styrofoam Packing
3	9009040	Carton Case (AU-9900)
	9009070	Carton Case (AU-11000)
4	5996080	Curl Stopper



8. ACCESSORY PARTS LIST

Parts No.	Stock No.	Description
	9209230	Operating Instructions (AU-9900)
	9209210	Operating Instructions (AU-11000)
	2410560	Short Pin Plug
	9237010	Schematic Diagram (AU-11000)
	9237020	Schematic Diagram (AU-9900)



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