SERVICE MANUAL

INTEGRATED STEREO AMPLIFIER

SANSUI AU-3900/4900

Sansui

SANSUI ELECTRIC CO., LTD.

Sansui

This service manual is designed for service engineers to repair, adjust, maintain and order the replacement parts of AU-3900 and AU-4900 correctly.

When ordering the parts, use the stock number and parts name specifically referring to the Parts Location & 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

1-1. AU-3900

POWER OUTPUT
Min. RMS, both channels driven, from 40 to 20,000Hz, with no more than 0.15% total harmonic distortion
22 watts per channel into 8 ohms
Min. RMS, both channels driven, at 1,000Hz, with no more than 0.15% total harmonic distortion
25 watts per channel into 8 ohms

LOAD IMPEDANCE .... 8 ohms (SYSTEM-A or B)
POWER BANDWIDTH ...... 40 to 20,000Hz at or below rated min. RMS power output and total harmonic distortion
TOTAL HARMONIC DISTORTION
.... less than 0.15% at or below rated min. RMS power output
INTERMODULATION DISTORTION
(70 Hz : 7 kHz = 4 : 1 SMPTE method)
.... less than 0.2%
FREQUENCY RESPONSE (at 1 watt)
.... 10 to 40,000Hz $^{+0.5}_{-1.5}$ dB
DAMPING FACTOR .... approximately 50 at 8 ohms load
INPUT SENSITIVITY AND IMPEDANCE
(1 kHz, for rated power output)
PHONO .... 2.5 mV/50 kilo-ohms
(Max. input capability: 200 mV at 1 kHz, less than 0.2% total harmonic distortion)
MIC .... 2.5 mV/10 kilo-ohms
TUNER .... 130 mV/50 kilo-ohms
AUX .... 130 mV/50 kilo-ohms
TAPE PLAY (pin jacks) .... 130 mV/50 kilo-ohms
OUTPUT LEVEL (1,000Hz)
TAPE REC (pin jacks) .... 100 mV
CHANNEL SEPARATION (1 kHz, at rated power output)
PHONO .... better than 60dB
TUNER .... better than 65dB
AUX .... better than 65dB
TAPE PLAY .... better than 65dB
HUM AND NOISE (IHF)
PHONO .... better than 75dB
TUNER .... better than 90dB
AUX .... better than 90dB
TAPE PLAY .... better than 90dB
MIC .... better than 65dB
CONTROLS
BASS .... +12dB, −12dB (50Hz)
TREBLE .... +12dB, −12dB (15 kHz)
LOUDNESS (volume control: −30dB) +10dB (50Hz)
.... +8dB (10 kHz)
HIGH FILTER .... −3dB (7 kHz, 6dB/oct.)
POWER REQUIREMENTS
POWER VOLTAGE........ 100, 120, 220, 240V 50/60Hz
120V (Usable 110~130V)
(for U.S.A. & Canada only)
POWER CONSUMPTION.. 60 watts (rated)
170 watts (max.), (194 VA)
DIMENSIONS .... 400 mm (15 ¾″) W
120 mm (4 ¾″) H
240 mm (9 ½″) D
WEIGHT .... 5.5 kg (13.2 lbs) net
7.0 kg (15.4 lbs) packed

1-2. AU-4900

POWER OUTPUT
Min. RMS, both channels driven, from 40 to 20,000Hz, with no more than 0.15% total harmonic distortion
35 watts per channel into 8 ohms
Min. RMS, both channels driven, at 1,000Hz, with no more than 0.15% total harmonic distortion
38 watts per channel into 8 ohms

LOAD IMPEDANCE .... 8 ohms (SYSTEM-A or B)
POWER BANDWIDTH ...... 40 to 20,000Hz at or below rated min. RMS power output and total harmonic distortion
TOTAL HARMONIC DISTORTION
.... less than 0.15% at or below rated min. RMS power output
INTERMODULATION DISTORTION
(70Hz : 7 kHz = 4 : 1 SMPTE method)
.... less than 0.2%
FREQUENCY RESPONSE (at 1 watt)
.... 10 to 40,000Hz $^{+0.5}_{-1.5}$ dB
DAMPING FACTOR .... approximately 50 at 8 ohms load
INPUT SENSITIVITY AND IMPEDANCE
(1 kHz, for rated power output)
PHONO .... 2.5 mV/50 kilo-ohms
(Max. input capability: 230 mV at 1 kHz, less than 0.2% total harmonic distortion)
MIC .... 2.5 mV/10 kilo-ohms
TUNER .... 130 mV/50 kilo-ohms
AUX .... 130 mV/50 kilo-ohms
TAPE PLAY (pin jacks) .... 130 mV/50 kilo-ohms
OUTPUT LEVEL (1,000Hz)
TAPE REC (pin jacks) .... 100 mV
CHANNEL SEPARATION (1 kHz, at rated power output)
PHONO .... better than 60dB
TUNER .... better than 65dB
AUX .... better than 65dB
TAPE PLAY .... better than 65dB
HUM AND NOISE (IHF)
PHONO .... better than 75dB
TUNER .... better than 90dB
AUX .... better than 90dB
TAPE PLAY .... better than 90dB
MIC .... better than 65dB
CONTROLS
BASS .... +12dB, −12dB (50Hz)
TREBLE .... +12dB, −12dB (15kHz)
LOUDNESS (volume control: −30dB) +10dB (50Hz)
.... +8dB (10 kHz)
LOWER FILTER .... −3dB (100Hz, 6dB/oct.)
HIGH FILTER .... −3dB (7 kHz, 6dB/oct.)
POWER REQUIREMENTS
POWER VOLTAGE........ 100, 120. 220, 240V 50/60Hz
120V (Usable 110~130)
(for U.S.A. & Canada only)
POWER CONSUMPTION.. 90 watts (rated)
240 watts (max.), (274 VA)
DIMENSIONS .... 400 mm (15 ¾″) W
120 mm (4 ¾″) H
240 mm (9 ½″) D
WEIGHT .... 6.3 kg (14.8 lbs) net
7.7 kg (17.0 lbs) Packed

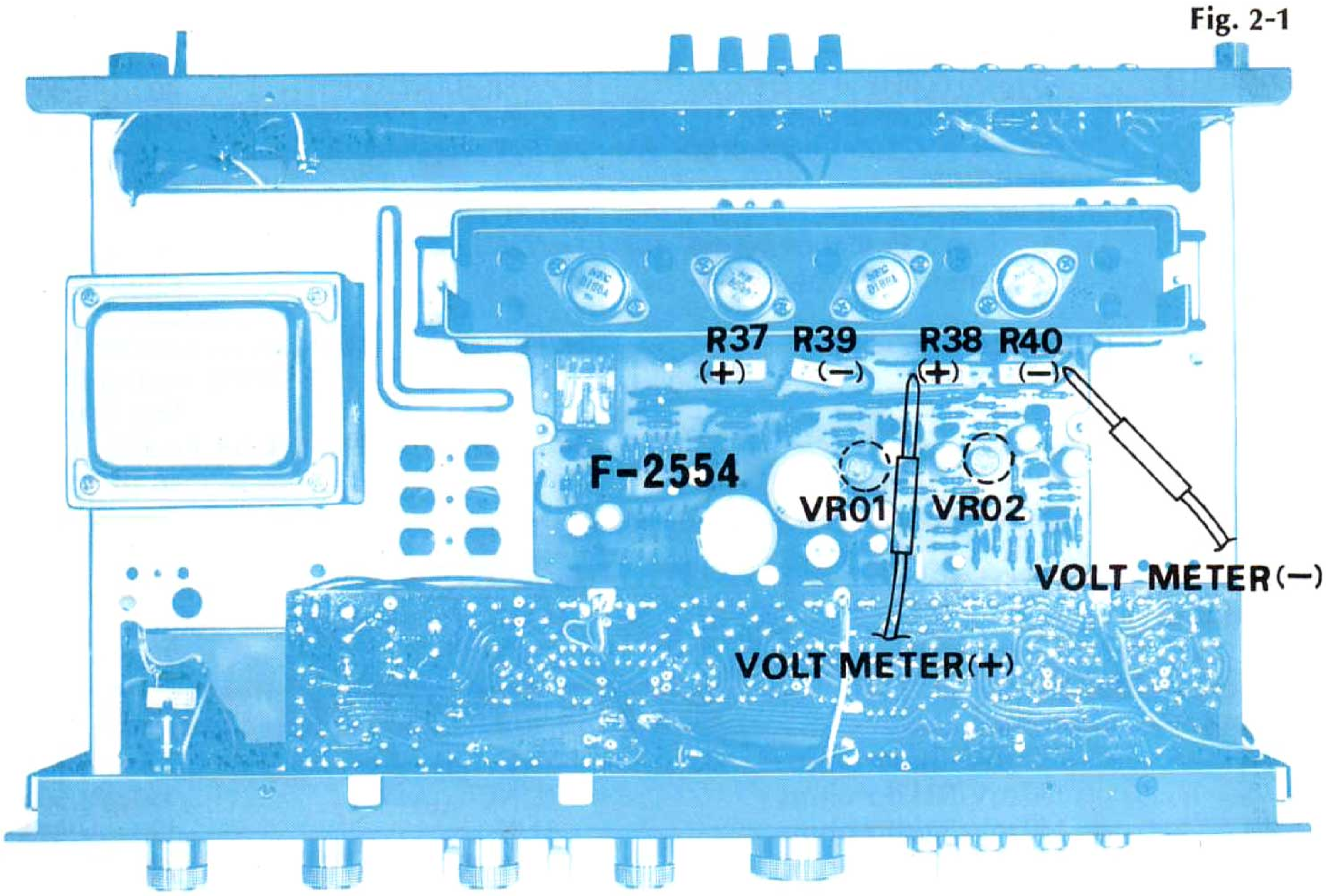
* Design and specifications subject to change without notice for improvement.

2. ADJUSTMENTS

2-1. Bias Current Adjustment

Note: 1. Confirm the AC Power Supply voltage.
2. Master Volume......................Minimum
3. Room Temperature ....18C°~28°C (65°F~83°F)
4. For this adjustment, run the unit for more than 3 minutes after power is switched ON.
5. Before this adjustment, turn VR01 and VR02 fully counterclockwise.

Fig. 2-1

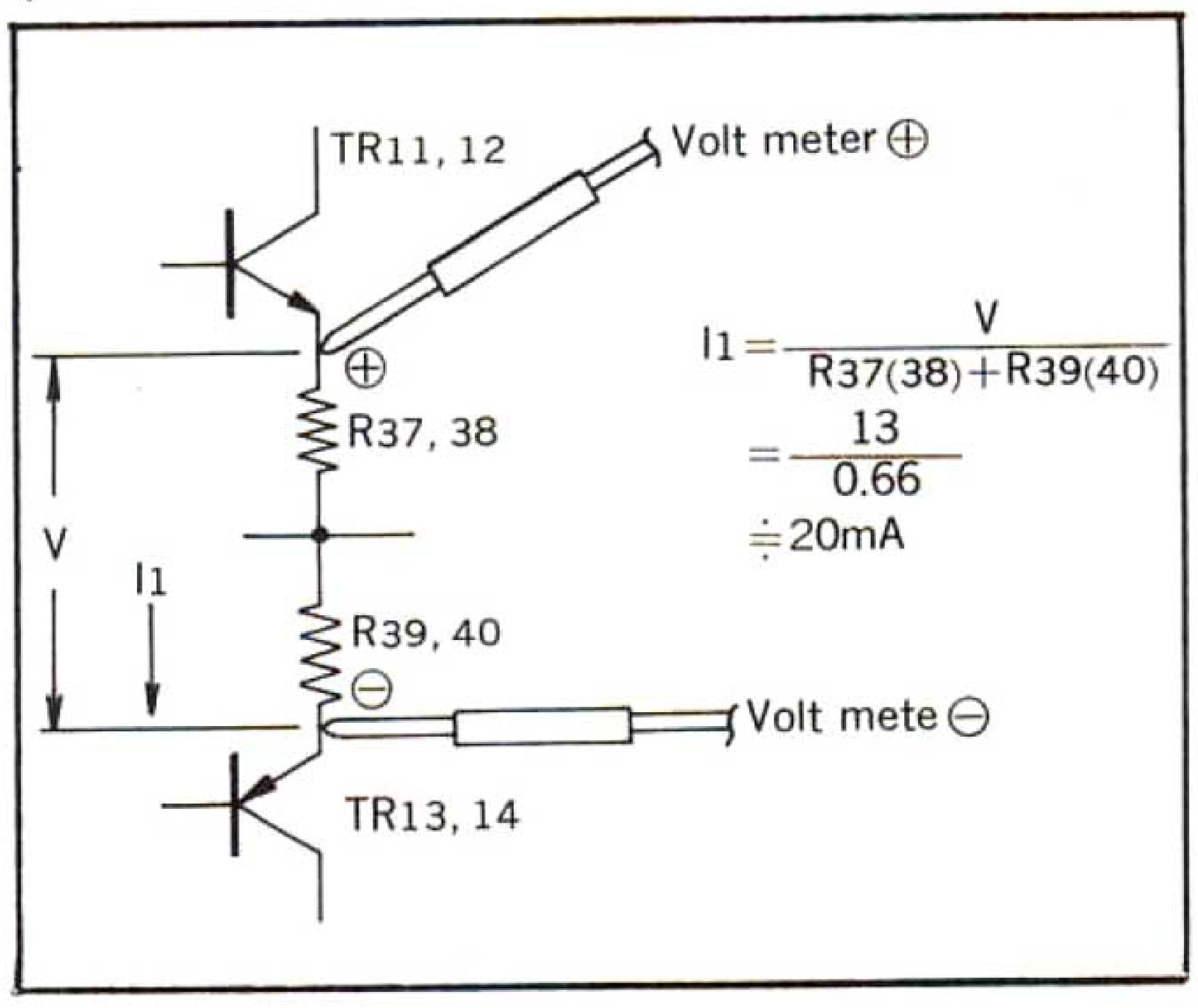


STEP	SUBJECT	EQUIPMENT	MEASURE OUTPUT	ADJUST	ADJUST FOR
1	Bias Current L-CH	DC Volt meter	* 1) See below	VR01 F-2554 (See Fig. 2-1)	13mV ±1mV
2	Bias Current R-CH	DC Volt meter	* 2) See below	VR02 F-2554 (See Fig. 2-1)	13mV ±1mV

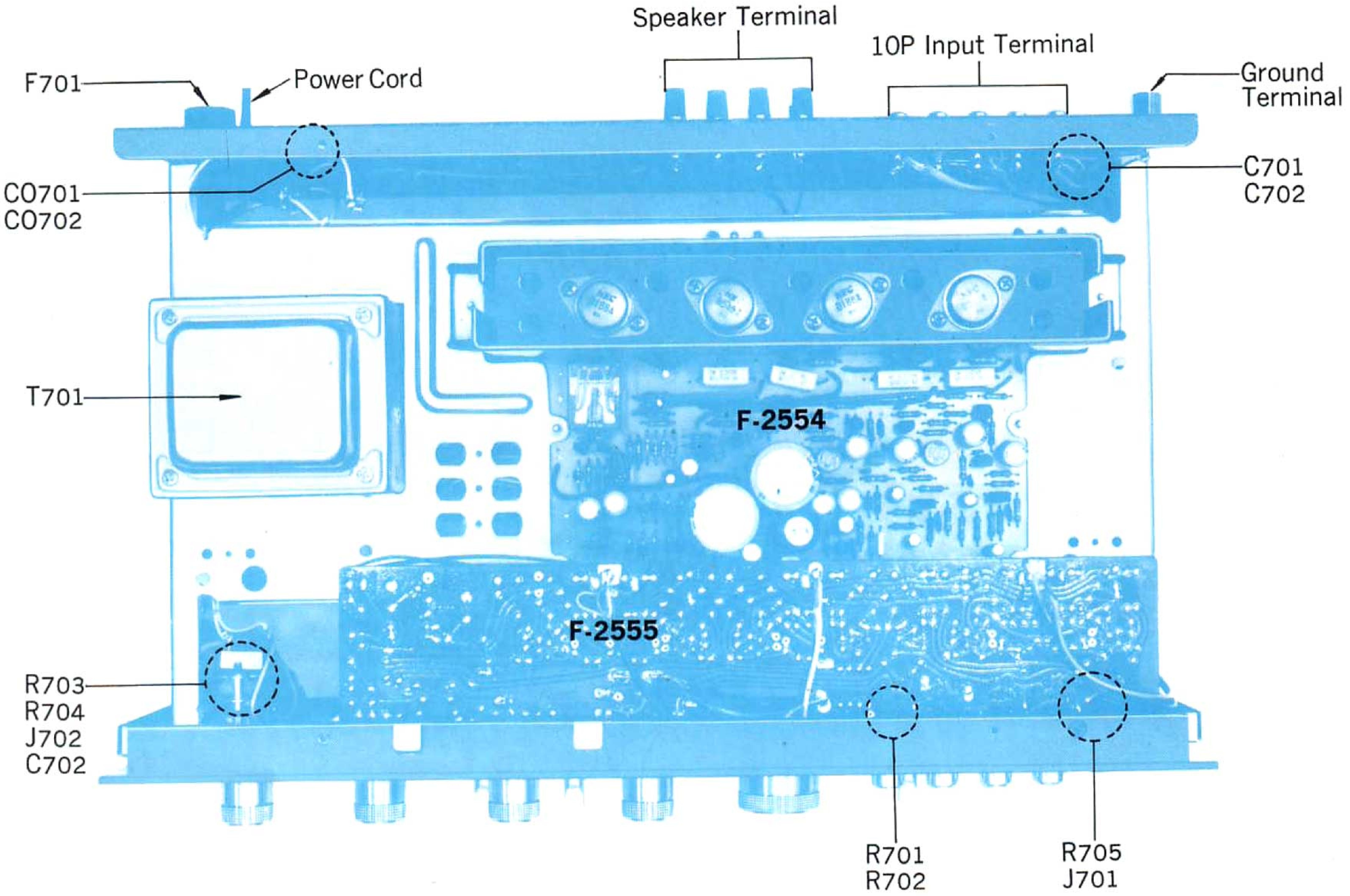
*1) For this measurement, put the lead (+) side of volt meter to (+) side of R37 and the lead (−) side to (−) side of R39 on F-2554 as Fig. 2-1.

*2) For this measurement, put the lead (+) side of volt meter to (+) side of R38 and the lead (−) side to (−) side of R40 on F-2552 as Fig. 2-1.

(F-2459 Driver Circui Board)



3. OTHER PARTS (Top Side)



Parts List (AU-3900, 4900)

Parts No.	Stock No.	Description
C701	0657473	47000pF 50V C.C.
C702	0659801	0.01μF 150V C.C.
C703	0657473	47000pF 50V C.C.
R703	0104331	330Ω } 1 W C.R.
R704	0104331	330Ω } 1 W C.R.
CO701	2450060	AC Outlet
CO702	2450060	AC Outlet
J701	2430170	Microphone Jack
J702	2430190	Headphone Jack
	2200350	10P Input Terminal
	2210200	Speaker Terminal
	3800261	Power Cord
	3910490	Power Cord Clip
	2230651	Ground Terminal
	2410091	Voltage Selector, Socket
	2410830	Voltage Selector, Plug

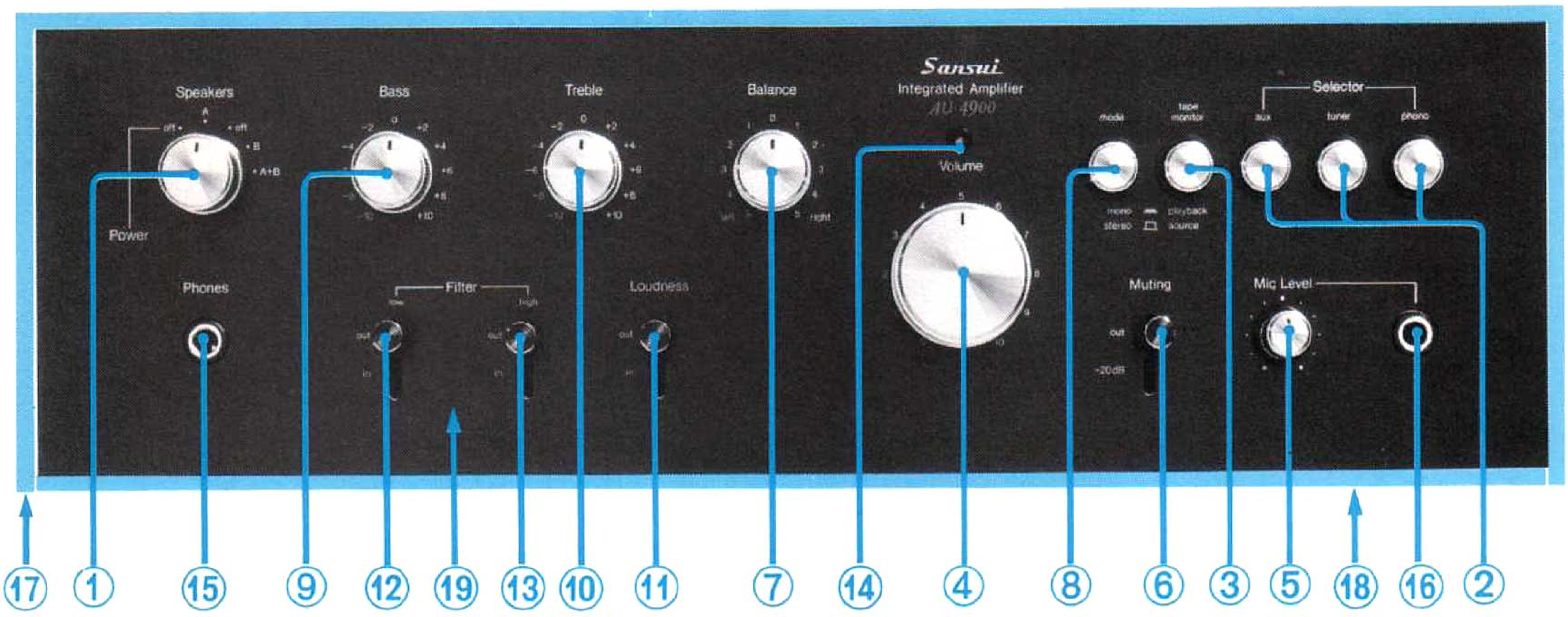
Parts List (AU-3900 only)

Parts No.	Stock No.	Description
R701	0107102	1kΩ ¼W C.R.
T701	4002330	Power Transformer
F701	0431230	1.5A 250V AC Fuse
	0431250	2.5A 250V AC Fuse
	2300060	Fuse Holder

Parts List (AU-4900 only)

Parts No.	Stock No.	Description
R701	0107822	8.2kΩ } ¼W C.R.
R702	0107822	8.2kΩ } ¼W C.R.
R705	0107102	1kΩ } ¼W C.R.
T701	4002320	Power Transformer
F701	0431240	2A 250V AC Fuse
	0431260	3A 250V AC Fuse
	2300060	Fuse Holder

4. OTHER PARTS (Front Side)



Parts List (AU-3900, 4900)

Parts No.	Stock No.	Description
1	5317880	S-5 Type Knob, SPEAKERS
	1101550, 1	Rotary Switch Y-1-4-5, SPEAKERS
2	5326500	Push Button (B)
	5396190	Ring, push button
	1131120	Push Switch (SUB 54)
3	5326500	Push Button (B)
	5396190	Ring, push buton
	1131120	Push Switch (SUB 54)
4	5318630	L-4 Type Knob, VOLUME
	1011070, 1	250kΩ(B)×2 VOLUME
5	5318620	Y-6 Type Knob, MIC LEVEL
	1005120, 1	10kΩ MIC LEVEL Volume
7	5318610	S-11 Type Knob, BALANCE Volume
	1015070, 1	100kΩ(MN)×2 BALANCE Volume
8	5326500	Push Button (B)
	5396190	Ring, push button
	1131120	Push Switch (SUB 54)
9	5317880	S-5 Type Knob, BASS Volume
	1015080, 1	100kΩ (A)×2 BASS Volume
10	5317880	S-5 Type Knob, TREBLE Volume
	1015080, 1	100kΩ (A)×2 TREBLE Volume
11	5326520	E-3 Type Knob, LOUDNESS
	5047460	Masking, lever switch
	1170340	SX15-5 Lever Switch, LOUDNESS
13	5326520	E-3 Type Knob, H
	5047460	Masking, lever switch
	1170350	SX15-6 Lever Switch, HIGH FILTER
14	7726080	Light Emitted Diode Ass'y (A)
15	2430190	Headphone Jack
16	2430170	Microphone Jack
17	5006460	Metal Bonnet
18	5058191	Bottom Plate

Parts List (AU-3900 only)

Parts No.	Stock No.	Description
19	5304410	Front Panel

Parts List (AU-4900 only)

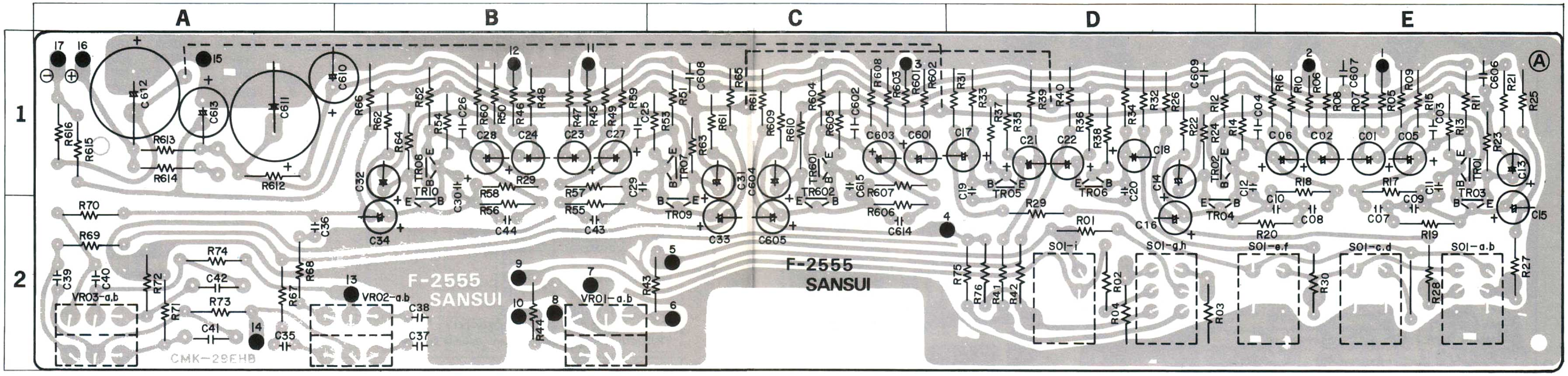
Parts No.	Stock No.	Description
6	5326520	E-3 Type Knob, lever switch
	5047460	Masking, lever switch
	1170390	SX15-10 Lever Switch, MUTING
12	5326520	E-3 Type Knob, Low FILTER
	5047460	Masking, lever switch
	1170340	SX15-5 Lever Switch, LOW FILTER
19	5304400	Front Panel

5. PARTS LOCATION AND PARTS LISTS

5-1. F-2555 Tone Control Circuit Board

(Stock No. 7561041 Complete Circuit Board F-2555. . . . AU-3900)
(Stock No. 7561051 Complete Circuit Board F-2555. . . . AU-4900)

Conductor Side



Parts List (AU-3900, 4900)

Parts No.	Stock No.	Description	Position
TR01, 02	0300470, 1	2SA726 (F, G) Transistor	1E.1D
TR03, 04	0306070, 1	2SC1313 (F, G)	2E.2D
TR05, 06	0300470, 1	2SA726 (F, G)	1B
TR07, 08	0300470, 1	2SA726 (F, G)	1C.1B
TR09, 10	0306070, 1	2SC1313 (F, G)	2C.2B
TR601	0300470, 1	2SA726 (F, G)	1C
TR602	0306070, 1	2SC1313 (F, G)	1, 2C
C01, 02	0519101	1μF 50V E.C.	1E
C03, 04	0660151	150pF 50V C.C.	1E. 1D, E
C05, 06	0510101	100μF 6.3V E.C.	1E
C07, 08	0600207	0.02μF 50V M.C.	2E
C09, 10	0600686	0.0068μF	2E
C11, 12	0660330	33pF 50V C.C.	1E.1D
C13, 14	0510470	47μF 6.3V E.C.	1E.1D
C15, 16	0519101	1μF 50V E.C.	1, 2E. 2D
C17, 18	0519103	0.47μF	1D
C19, 20	0660470	47pF 50V C.C.	1D
C21, 22	0515339	3.3μF 50V E.C.	1D
C23, 24	0519101	1μF	1B
C25, 26	0660151	150pF 50V C.C.	1B
C27, 28	0510101	100μF 6.3V E.C.	1B
C31, 32	0510470	47μF	1C.1B
C33, 34	0515339	3.3μF 50V E.C.	2C.2B
C35, 36	0600336	0.0033μF 50V M.C.	2A
C37, 38	0600277	0.027μF	2B
C39, 40	0600277	0.027μF	2A
C41, 42	0600228	0.22μF	2A
C43, 44	0660330	33pF 50V C.C.	2B
C601	0519103	0.47μF 50V E.C.	1C
C602	0660151	150pF 50V C.C.	1C
C603	0510470	47μF 6.3V E.C.	1C

Parts No.	Stock No.	Description	Position
C604	0510470	47μF 6.3V E.C.	1C
C605	0519101	1μF 50V E.C.	2C
C606	0657223	22000pF 50V C.C.	1E
C607	0657223	22000pF	1E
C608	0657223	22000pF	1C
C609	0657223	22000pF	1D
C611	0514221	220μF 35V E.C.	1A
C612	0513471	470μF 25V E.C.	1A
C613	0513101	100μF	1A
C614	0660101	100pF 50V C.C.	2C
R01, 02	0107103	10kΩ ¼W C.R.	2D
R03, 04	0107105	1MΩ	2D
R05, 06	0107222	2.2kΩ	1E
R07, 08	0107823	82kΩ	1E
R09, 10	0107124	120kΩ	1E
R11, 12	0107334	330kΩ	1E.1D
R13, 14	0107683	68kΩ	1E.1D
R15, 16	0107271	270Ω	1E
R17, 18	0107184	180kΩ	1E
R19, 20	0107123	12kΩ	2E. 2D, E
R21, 22	0107562	5.6kΩ	1E.1D
R23, 24	0107122	1.2kΩ	1E.1D
R25, 26	0107124	120kΩ	1E.1D
R27, 28	0107221	220Ω	2E
R29, 30	0107102	1kΩ	1B.2E
R31, 32	0107683	68kΩ	1D
R33, 34	0107224	220kΩ	1D
R35, 36	0107682	6.8kΩ	1D
R37, 38	0107470	47Ω	1D
R39, 40	0107124	120kΩ	1D
R41, 42	0107222	2.2kΩ	2D

Parts No.	Stock No.	Description	Position
R45, 46	0107122	1.2kΩ ¼W C.R.	1B
R47, 48	0107105	1MΩ	1B
R49, 50	0107474	470kΩ	1B
R51, 52	0107105	1MΩ	1C.1B
R55, 56	0107273	27kΩ	2B
R61, 62	0107682	6.8kΩ	1C.1B
R63, 64	0107122	1.2kΩ	1C.1B
R65, 66	0107124	120kΩ	1C.1B
R67, 68	0107102	1kΩ	2A
R69, 70	0107153	15kΩ	2A
R71, 72	0107152	1.5kΩ	2A
R73, 74	0107122	1.2kΩ	2A
R75, 76	0107273	27kΩ	2D
R601	0107222	2.2kΩ	1C
R602	0107474	470kΩ	1C
R603	0107224	220kΩ	1C
R604	0107394	390kΩ	1C
R605	0107683	68kΩ	1C
R606	0107104	100kΩ	2C
R608	0107121	120Ω	1C
R609	0107562	5.6kΩ	1C
R610	0107122	1.2kΩ	1C
R611	0107124	120kΩ	1C
R612	0107472	4.7kΩ	1A
VR01	1015070, 1	100kΩ (M, N)×2 Volume	2B
VR02	1015080, 1	100kΩ (A)×2	2A, B
VR03	1015080, 1	100kΩ (A)×2	2A
S01	1131120	SUB54 Push Switch	2D, E

Parts List (AU-3900 only)

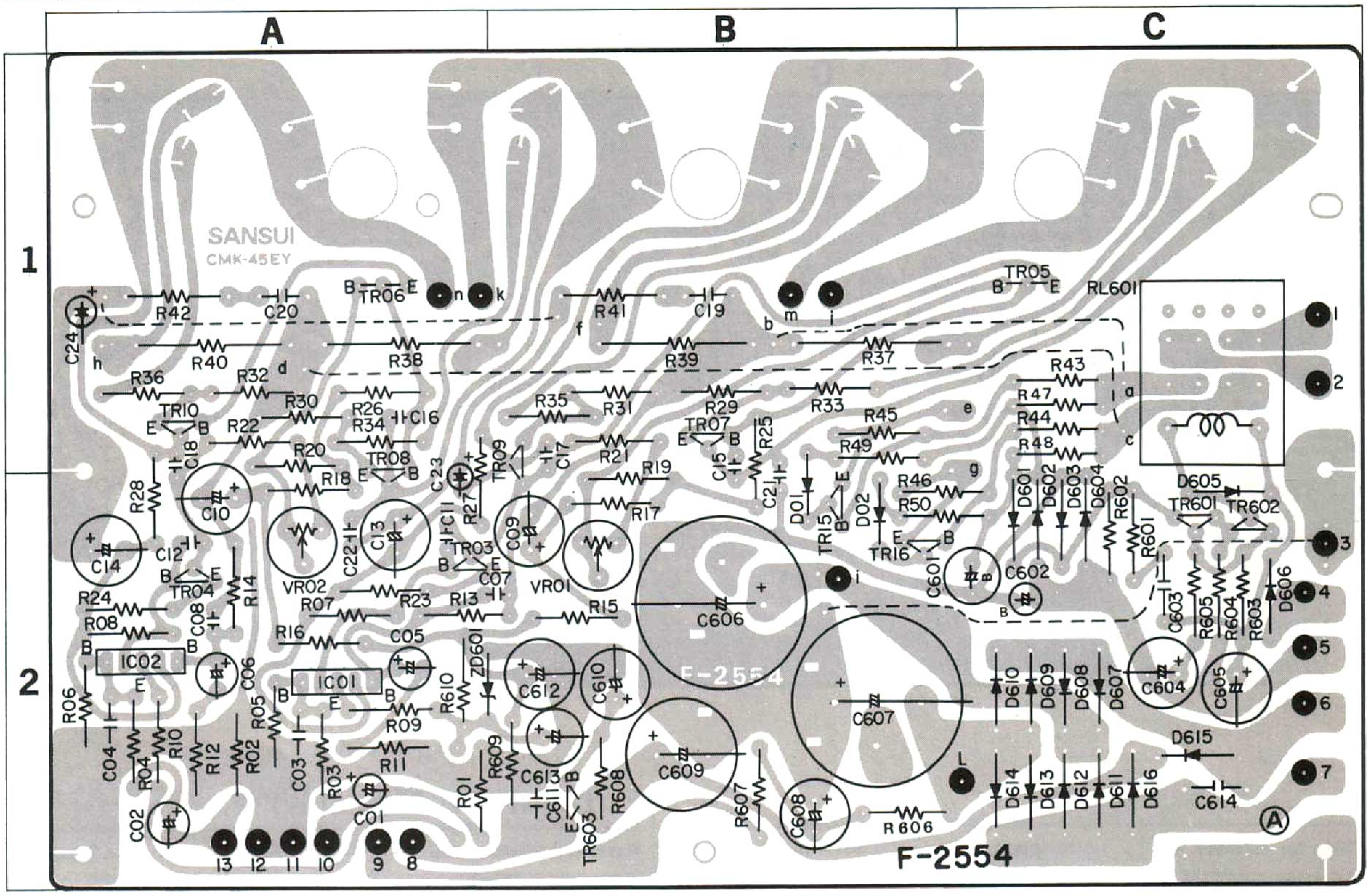
Parts No.	Stock No.	Description	Position
C610	0513470	47μF 25V E.C.	1A, B
R53, 54	0107683	68kΩ ¼W C.R.	1C.1B
R59, 60	0107471	470Ω	1B
R613	0107331	330Ω	1A
R614	0107820	82Ω	1A
R615	0107471	470Ω	1A
R616	0107681	680Ω	1A

Parts List (AU-4900 only)

Parts No.	Stock No,	Description	Position
C29, 30	0660100	10pF 50V C.C.	1B.2B
C610	0515470	47μF 50V E.C.	1A, B
R43, 44	0107683	68kΩ ¼W C.R.	2C.2B
R53, 54	0107683	68kΩ	1C.1B
R59, 60	0107391	390Ω	1B
R613	0107221	220Ω	1A
R614	0107101	100Ω	1A
R615	0107561	560Ω	1A
R616	0107681	680Ω	1A

5-2. F-2554 Driver Circuit Board Conductor Side

(Stock No. 7571151 Complete Circuit Board F-2554. . . . AU-3900)
(Stock No. 7571161 Complete Circuit Board F-2554. . . . AU-4900)



Parts List (AU-3900, 4900)

Parts No.	Stock No.	Description		Position
TR03, 04	0306360, 1	2SC1951 (1, 2)	Transistor	2A,B. 2 A
TR05, 06	0305731	2SC711 (E)	Transistor	1 C. 1 A
TR07	0308521 or 0308522	2SD438 (E) or 2SD438 (F)	Transistor	1 B
TR08	0308521 or 0308522	2SD438 (E) or 2SD438 (F)	Transistor	1, 2 A
TR09	0303361 or 0303362	2SB560 (E) or 2SB560 (F)	Transistor	1, 2 A
TR10	0303361 or 0303362	2SB560 (E) or 2SB560 (F)	Transistor	1 A
TR15, 16	0305731, 2	2SC711 (E, F)	Transistor	2 B
TR601	0306131, 2	2SC1364 (6, 7)	Transistor	2 C
TR602	0306131, 2	2SC1364 (6, 7)	Transistor	2 C
TR603	0306131, 2	2SC1364 (6, 7)	Transistor	2 B
IC01, 02	0360290, 1	2SA798 (F, G)		2 A
D01, 02	0311160	1S2473D	Diode	1, 2B. 2 B
D601	0310400	1N34A	Diode	2 C
D602	0310400	1N34A	Diode	2 C
D603	0310400	1N34A	Diode	2 C
D604	0310400	1N34A	Diode	2 C
D605	0310340	10D1 (1S2226)	Diode	2 C
D606	0310340	10D1 (1S2226)	Diode	2 C
D607	0310350	10D2 (1S2227)	Diode	2 C
D609	0310350	10D2 (1S2227)	Diode	2 C
ZD601	0315970	EQA01-13R	Zener Diode	2 A, B
C01, 02	0519101	1μF 50V	E.C.	2 A
C03, 04	0660221	220 pF 50V	C.C.	2 A

Parts No.	Stock No.	Description			Position
C05, 06	0510470	47μF	6.3V	E.C.	2 A
C07, 08	0660309	3 pF	50V	C.C.	2 B . 2 A
C09, 10	0515330	33μF	50V	E.C.	2B. 1, 2 A
C11, 12	0660390	39 pF	50V	C.C.	2 A
C13, 14	0515470	47μF	50V	E.C.	2 A
C15, 16	0660470	47 pF	50V	C.C.	1, 2B. 1 A
C17, 18	0660470	47 pF	50V	C.C.	1 B . 1 A
C19, 20	0601477	0.047μF	50V	M.C.	1 B . 1 A
C21, 22	0657103	10000pF	50V	C.C.	1, 2B. 2A
C23, 24	0515109	1μF	50V	E.C.	1, 2A. 1A
C601	0530470	47μF	6.3V	E.C.	2 B , C
C602	0535109	1μF	50V	E.C.	2 C
C603	0601228	0.22μF	50V	M.C.	2 C
C604	0510471	470μF	6.3V	E.C.	2 C
C605	0514101	100μF	35V	E.C.	2 C
C608	0514101	100μF	35V	E.C.	2 B
C610	0514101	100μF	35V	E.C.	2 B
C611	0657223	22000μF	50V	C.C.	2 B
C612	0514101	100μF	35V	E.C.	2 B
C613	0512470	47μF	16V	E.C.	2 B
C614	0659011	10000 pF	500V	C.C.	2 C
R01, 02	0107474	470kΩ	¼W	C.R.	2A, B, 2A
R03, 04	0107222	2.2kΩ	¼W	C.R.	2 A
R05, 06	0107393	39kΩ	¼W	C.R.	2 A
R07, 08	0107152	1.5kΩ	¼W	C.R.	2 A
R09, 10	0107123	12kΩ	¼W	C.R.	2 A
R11, 12	0107122	1.2kΩ	¼W	C.R.	2 A
R13, 14	0107393	39kΩ	¼W	C.R.	2 A
R15, 16	0107182	1.8kΩ	¼W	C.R.	2 B . 2 A
R17, 18	0107472	4.7kΩ	¼W	C.R.	2 B . 2 A
R19, 20	0107332	3.3kΩ	¼W	C.R.	2 B . 1 A

Parts No.	Stock No.	Description		Position
R21, 22	0107821	820Ω		1B.1A
R23, 24	0107330	33Ω		2A
R25, 26	0107390	39Ω		1,2B.1A
R27, 28	0107101	100Ω	¼W C.R.	1,2A
R29, 30	0107221	220Ω		1B.1A
R31, 32	0107221	220Ω		1B.1A
R33, 34	0107689	6.8Ω		1B.1A
R35, 36	0107689	6.8Ω		1B.1A
R37, 38	0132338	0.33Ω	2W Ce.R.	1B.1A
R39, 40	0132338	0.33Ω		1B.1A
R41, 42	0103479	4.7Ω	½W C.R.	1B.1A
R43, 44	0107681	680Ω		1C
R47, 48	0107473	47kΩ		1C
R49, 50	0107222	2.2kΩ		1B. 2B, C
R601	0107394	390kΩ		2C
R602	0107224	220kΩ		2C
R603	0107683	68kΩ	¼W C.R.	2C
R604	0107100	10Ω		2C
R605	0107220	22Ω		2C
R606	0107151	150Ω		2B
R607	0107100	10Ω		2B
R608	0107103	10kΩ		2B
R609	0107220	22Ω		2B
RL601	1150101 1150280	MY4-02-US RABK-4B-DC24V-151T	Relay	1C
VR01, 02	1035070	1kΩ (B) Semi-Variable Resistor		2B.2A

Parts List (AU-3900 only)

Parts No.	Stock No.	Description		Position
TR11	0308551 or 0308552	2SD315V10 (D) or 2SD315V10 (E)		
TR12	0308551 or 0308552	2SD315V10 (D) or 2SD315V10 (E)	Transistor	
TR13	0303351 or 0303352	2SB509V10 (D) or 2SB509V10 (E)		
TR14	0303352 or 0303352	2SB509V10 (D) or 2SB509V10 (E)		
D611	0310350	10D-2 (1S2227)		2C
D613	0310350	10D-2 (1S2227)	Diode	2C
D615	0310350	10D-2 (1S2227)		2C
D616	0310350	10D-2 (1S2227)		2C
C606	0549007	3300μF		2B
C607	0549007	3300μF	35V E.C.	2B
C609	0514221	220μF		2B
R610	0107152	1.5kΩ	¼W C.R.	2A
R45, 46	0107331	330Ω		1B. 2B, C
	5937082	Heat Sink		

Parts List (AU-4900 only)

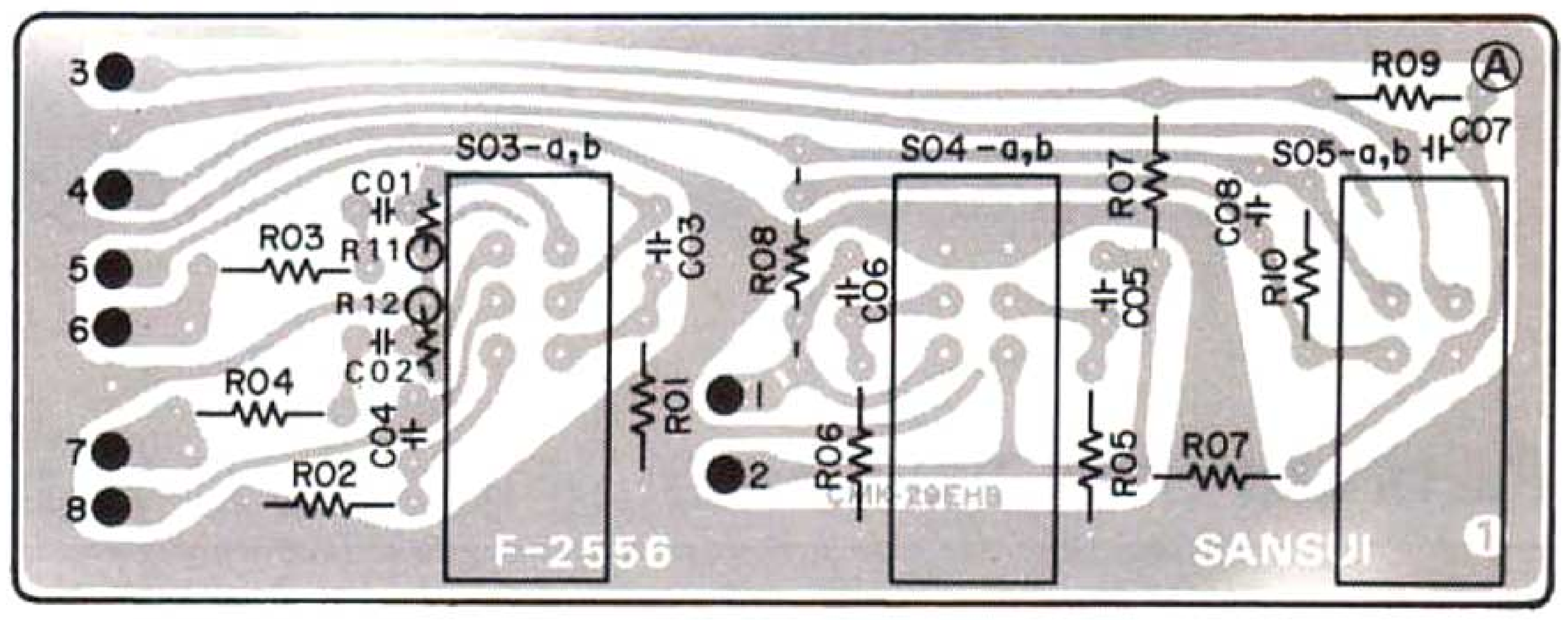
Parts No.	Stock No.	Description		Position
TR11	0308541 or 0308542	2SD188A (R) or 2SD188A (Q)		
TR12	0308541 or 0308542	2SD188A (R) or 2SD188A (Q)	Transistor	
TR13	0303381 or 0303382	2SB545A (R) or 2SB545A (Q)		
TR14	0303381 or 0303382	2SB545A (R) or 2SB545A (Q)		

Parts No.	Stock No.	Description		Position
D11	0310350	10D-2 (1S2227)		
D12	0310350	10D-2 (1S2227)		
D13	0310350	10D-2 (1S2227)		
D14	0310350	10D-2 (1S2227)	Diode	
D15	0310350	10D-2 (1S2227)		
D16	0310350	10D-2 (1S2227)		
D608	0310350	10D-2		2C
D610	0310350	10D-2 (1S2227)		2C
C606	0549110	3300μF		2B
C607	0549110	3300μF	50V E.C.	2B.C
C609	0515221	220μF		2B
R45, 46	0107271	270Ω	¼W C.R.	1B. 2B, C
R610	0107272	2.7kΩ		2A
	5937220	Heat Sink		

5-3. F-2556 Switch Circuit Board

(Stock No. 7592811 Complete Circuit Board F-2556. . AU-3900)
(Stock No. 7592821 Complete Circuit Board F-2556. . AU-4900)

Conductor Side



Parts List (AU-3900, 4900)

Parts No.	Stock No.	Description	
C01, 02	0621561	560pF	50V P.C.
C03, 04	0600157	0.015μF	50V M.C.
C05, 06	0600127	0.012μF	
R01, 02	0107223	22kΩ	
R03, 04	0107153	15kΩ	
R05, 06	0107104	100kΩ	¼W C.R.
R07, 08	0107222	2.2kΩ	
R901, 902	0107105	1MΩ	
S03	1170340	SX15-5	Lever Switch
S04	1170350	SX15-6	

Parts List (AU-4900 only)

Parts No.	Stock No.	Description	
C07, 08	0600397	0.039μF	50V M.C.
R09, 10	0107474	470kΩ	¼W C.R.
S05	1170340	SX15-5	Lever Switch

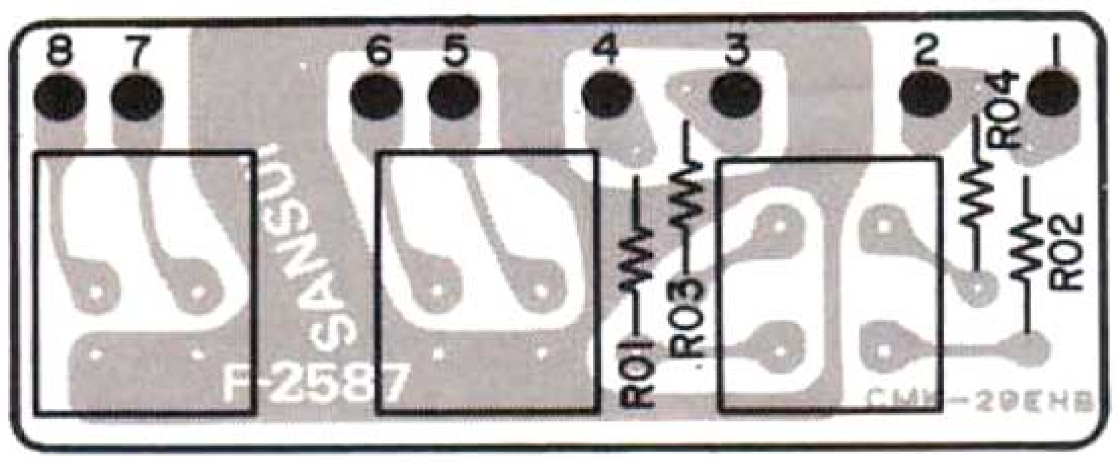
Abbreviations

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

5-4. F-2587 Connector Circuit Board

(Stock No. 7592831 Complete Circuit Board F-2587. . AU-3900)
(Stock No. 7592841 Complete Circuit Board F-2587. . AU-4900)

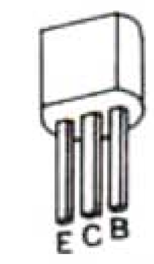
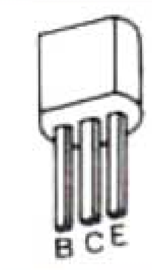
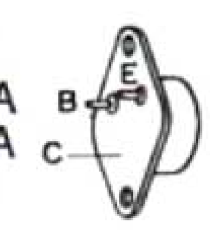
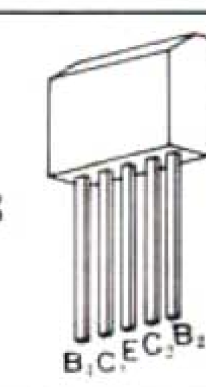
Counductor Side

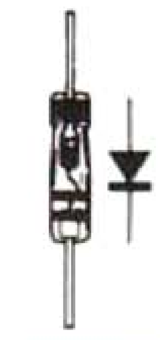
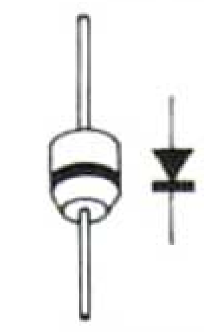
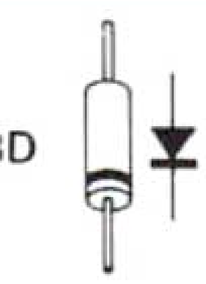
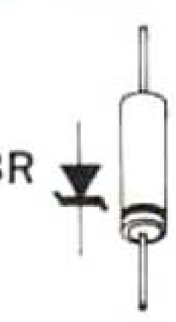


Parts List (AU-3900, 4900)

Parts No.	Stock. No.	Description
R01, 02	0107222	2.2kΩ } ¼W C.R.
R03, 04	0107562	5.6kΩ } ¼W C.R.

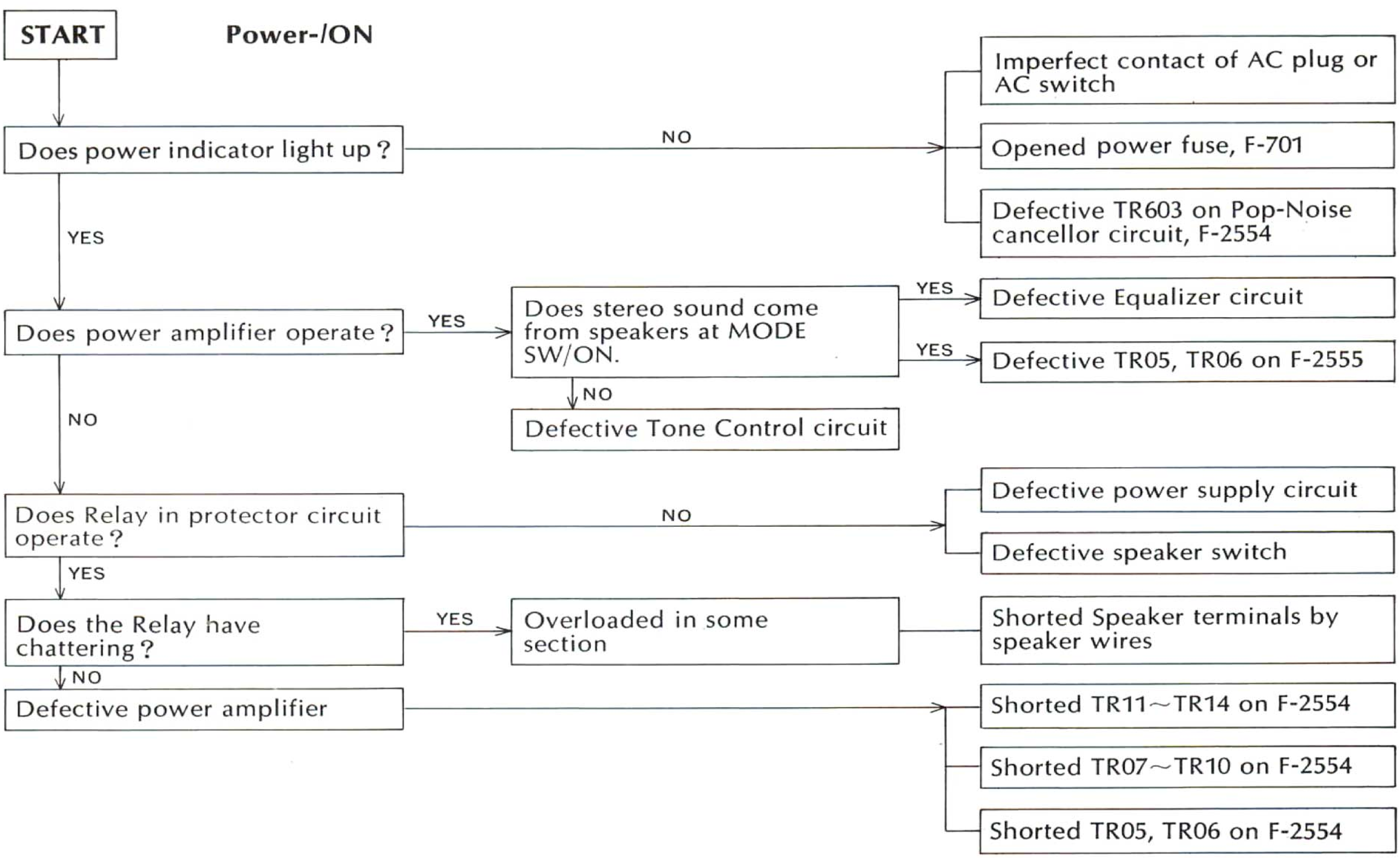
6. FIGURES

SEMICONDUCTORS		COMPLETE CIRCUIT BOARD
2SD438 2SC1364 2SB560 2SC1951		F-2554
2SC711 2SA726 2SC1313		F-2555 F-2554
2SB509 2SD188A 2SB545A 2SD315		F-2554
2SA798		F-2554

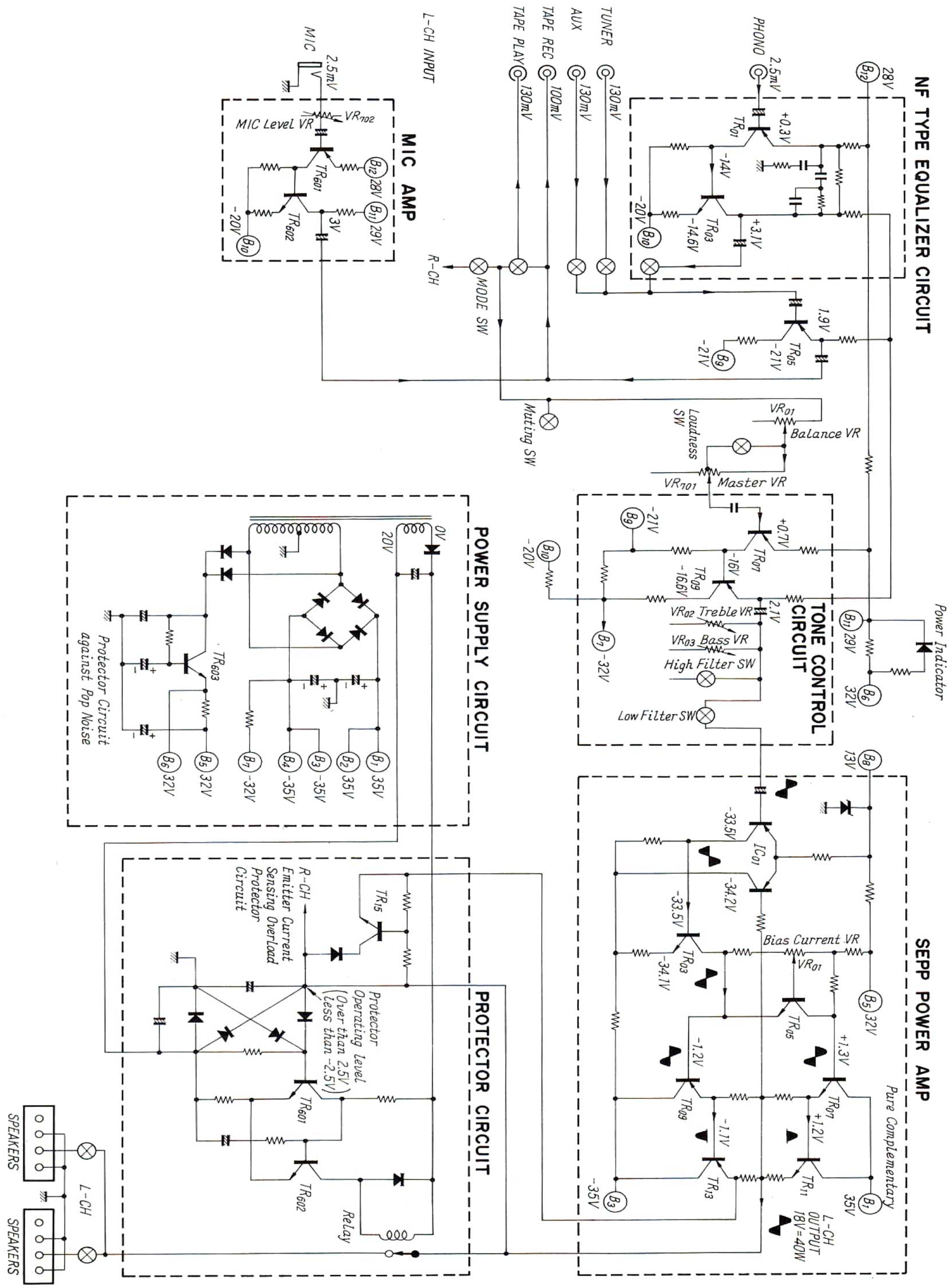
SEMICONDUCTORS		COMPLETE CIRCUIT BOARD
IN34A		F-2554
10D-1 10D-2		F-2554
1S2473D		F-2554
EQA01-13R		F-2554

7. TROUBLESHOOTING

7-1. Troubleshooting Chart



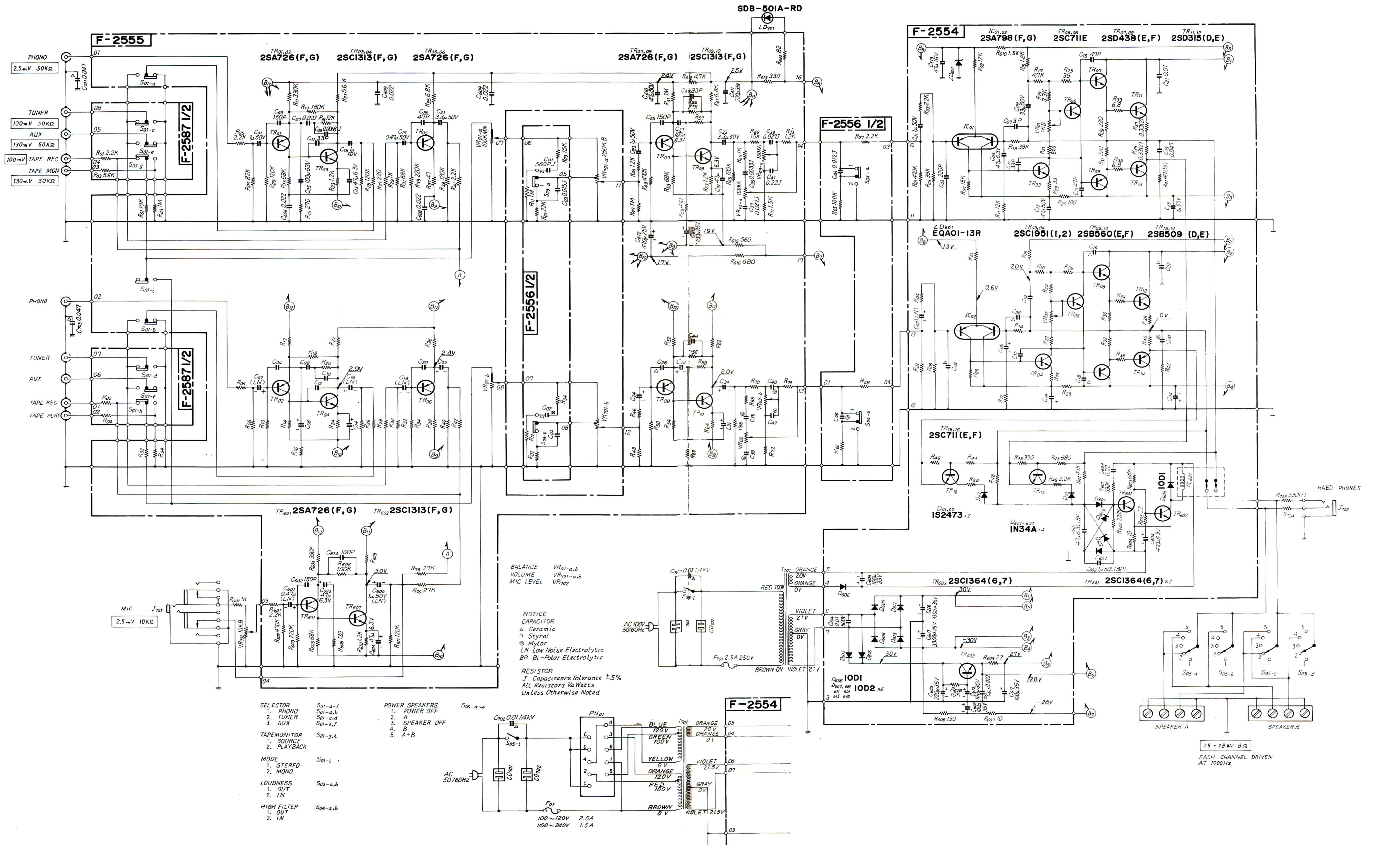
7-2. Operation Block Diagram



8. SCHEMATIC DIAGRAM

8-1. AU-3900

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



8-2. AU-4900

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