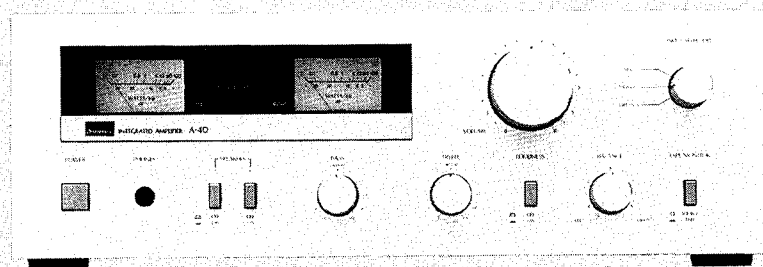


SERVICE MANUAL

INTEGRATED STEREO AMPLIFIER

SANSUI A-40



SPECIFICATIONS

Power output

Min. RMS, both channels driven, from 35 to 20,000 Hz,
with no more than 0.09 % total harmonic distortion
25 watts per channel into 8 ohms

Load impedance 8 ohms

Total harmonic distortion

. less than 0.09 % at or below rated
min. RMS power output

Frequency response (at 1 watt)

. 10 to 50,000 Hz
+0.5 dB, -2 dB

RIAA curve deviation (PHONO, 30 Hz to 15 kHz)

. +1 dB, -1 dB

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

PHONO 2.5 mV/47 kilohms
(Max. input capability; 150 mV at 1 kHz, less than
0.1 % total harmonic distortion)

TAPE/AUX, TUNER, TAPE PLAY, 150 mV/47 kilohms

Output level and impedance (1,000 Hz)

TAPE REC 150 mV/47 kilohms

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

PHONO 73 dB

TAPE/AUX, TUNER, TAPE PLAY

. 90 dB

Power requirements

Power voltage 110 ~ 120, 220 ~ 240 V
(50/60 Hz)

For U.S.A. & Canada

. 120 V (60 Hz)

Power consumption

Rated consumption

. 105 watts

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

147 mm (5-13/16") H

251 mm (9-15/16") D

Weight 5.1 kg (11.2 lbs) net

6.0 kg (13.2 lbs) packed

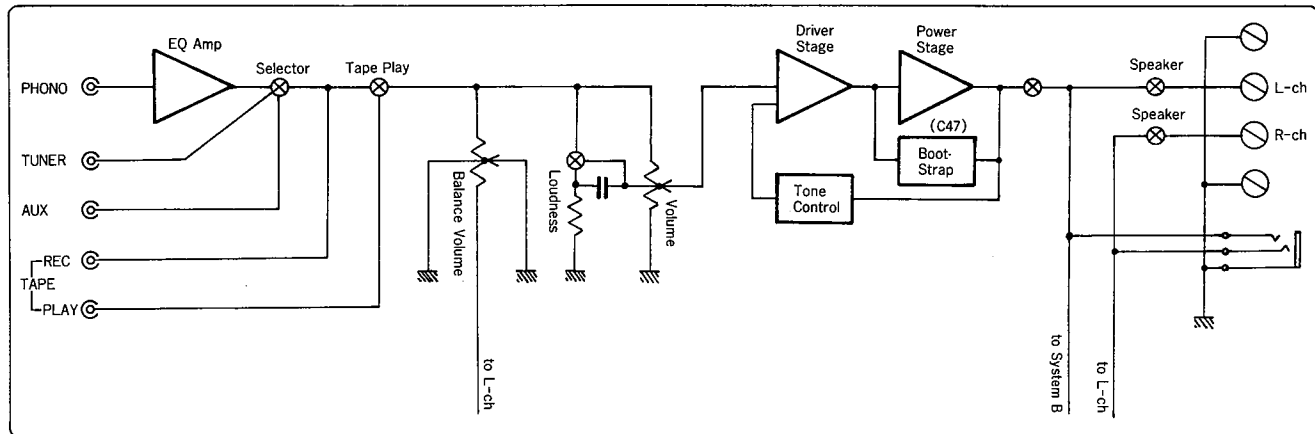
* Design and specifications subject to changes without
notice for improvements.

* In order to simplify the explanation illustrations may
sometimes differ from the originals.



SANSUI ELECTRIC CO., LTD.

1. BLOCK DIAGRAM



2. ADJUSTMENTS (See Top View on Page 3)

Notes: 1. Room Temperature 18°C ~ 28°C
(65°F ~ 83°F)

2. For this adjustment, run the unit for more than 5 minutes after the power is switched ON with its level volume minimum.

2-1. Bias Current Adjustment

Note: Before adjusting or confirming the bias current, avoid such a measurement that the power transistors are heated.

STEP	SUBJECT	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARK
1.	Bias Current (L-CH) Adj.	Voltage between emitters of TR17 and TR19	VR01 on F-3124	DC 4 mV	Before turning ON power switch, turn VR01, VR02 fully counterclockwise.
2.	Bias Current (R-CH) Adj.	Voltage between emitters of TR18 and TR20	VR02 on F-3124		In this adjustment, the bias current is converted into the voltage.

3. PARTS LOCATION & PARTS LIST

3-1. F-3124 Main Circuit Board (Stock No. 75725801)

Parts List

Parts No.	Stock No.	Description	Position
● Transistor			
TR01, 02	03010900, 1	2SA992 F, E	4A
TR03, 04	03067400, 1	2SC1845 F, E	4A
TR05, 06	03603700, 1	2SA798 F, G	2, 3C
TR09, 10	03064001, 2	2SC1904 B, V	1, 3B
TR11, 12	03067400, 1	2SC1845 F, E	2B
TR13, 14	03086101, 2	2SD357 D, E	2B
TR15, 16	03033301, 2	2SB527 D, E	2, 3B
TR17, 18	03070300, 1	2SC1827 O, Y	2, 3B
TR19, 20	03013400, 1	2SC769 O, Y	2, 3B
TR17, 18	03085201, 2	2SD438 E, F	1B
TR602	03033601, 2	2SB560MP E, F	1C
● Diode			
D 601	03117000	RB-152	2A

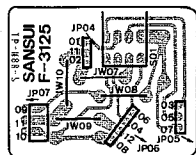
Parts No.	Stock No.	Description	Position
● Zener Diode			
ZD601, 602	03180000	RD22E B	1B, C
C 05, 06	08602500	150pF 50V C.T.	4A
C 07, 08	08602300	100pF 50V C.T.	4A
C 15, 16	08601700	33pF 50V C.T.	4A
C 21, 22	08602700	220pF 50V C.T.	4B
C 23, 24	08603000	390pF 50V C.T.	4C
C 29, 30	08602300	100pF 50V C.T.	2, 3C
C 33, 34	08602100	68pF 50V C.T.	1, 3B
C 35, 36	08600600	5pF 50V C.T.	1, 3B
C 41, 42	08601700	33pF 50V C.T.	2, 3B
C 45, 46	08601700	33pF 50V C.T.	1, 3B
C 603	08680400	10000pF 500V C.C.	2A
R 77, 78	00091700	0.33Ω x 2 5W Ce.R.	2, 3B

Parts No.	Stock No.	Description	Position
R 103, 104	00179000	10Ω 1W N.I.R.	2A
R 603, 604	00181800	2.7kΩ 1W	3A
VR01, 02	10370400	Volume 1kΩ B Bias adj.	1B
VR601	10054600	Balance Volume 250kΩ B	4C
VR602	10156200	Treble Volume 100kΩ (C) x 2	3C
VR603	10156200	Bass Volume 100kΩ (C) x 2	2C
S 601	11322400	Push Switch, Tape Monitor	4C
S 602	11322400	Push Switch, Loudness	3C
S 603	11322300	Push Switch, Speaker	1C
	22007100	Input Terminal (Tape)	
	22067200	Input Terminal (Phono)	
	22902400	Output Terminal (A system)	
	22902500	Output Terminal (B system)	

- The circuit boards, F-3125, F-3126, F-3128, F-3127, F-3129 & F-3109 are not supplied as the assembled, the individual parts on the circuit boards, however are provided for orders.

3-2. F-3125 Selector Circuit Board

Conductor Side

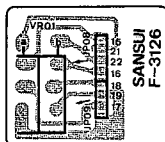


Parts List

Parts No.	Stock No.	Description
S 01	11907800	Rotary Switch, Selector

3-3. F-3126 Volume Circuit Board

Conductor Side

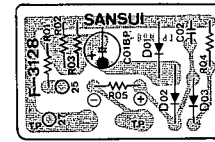


Parts List

Parts No.	Stock No.	Description
VR01	10155700	Volume 150kΩ (B) x 2

3-4. F-3128 Power Meter Drive Circuit Board

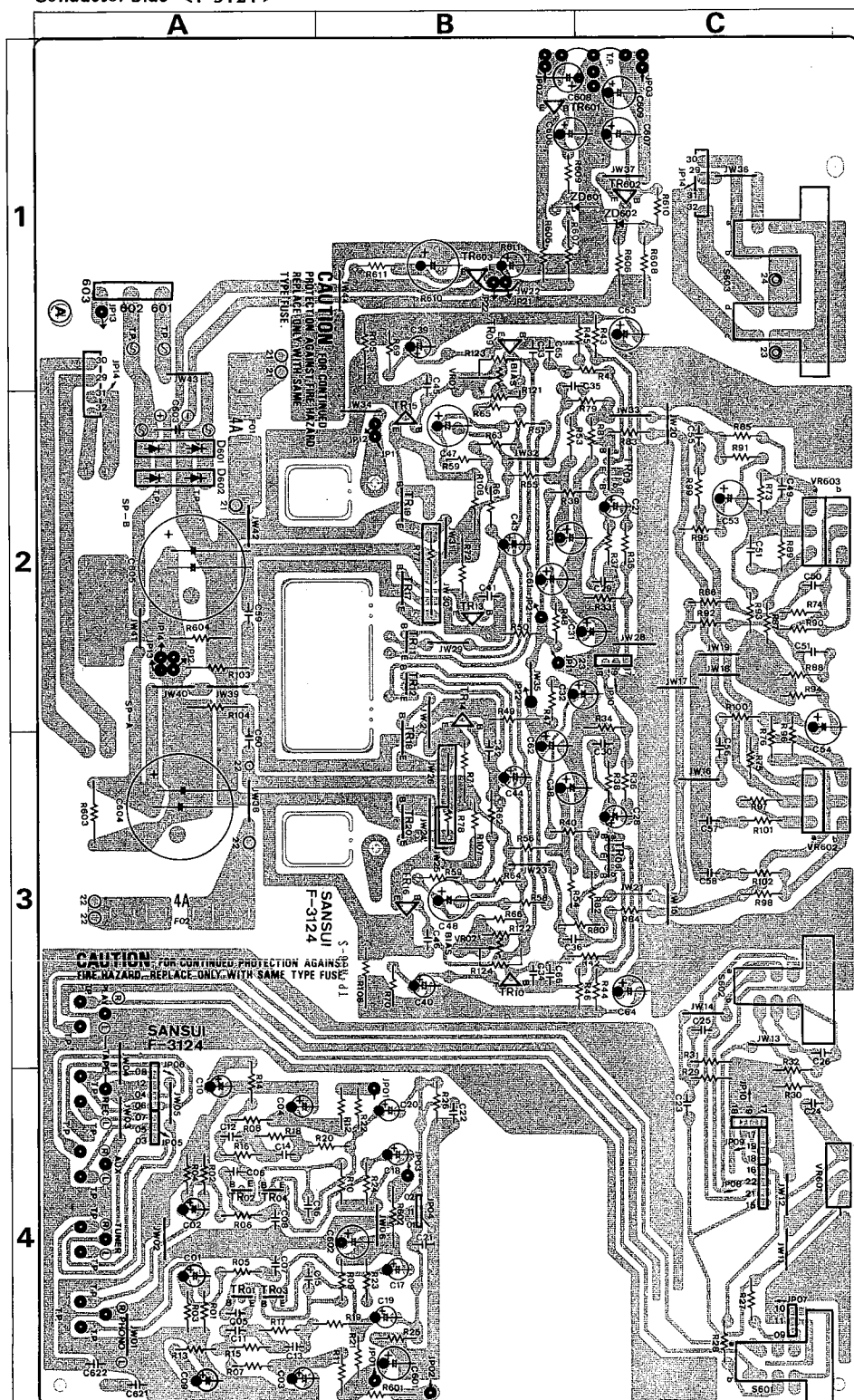
Conductor Side



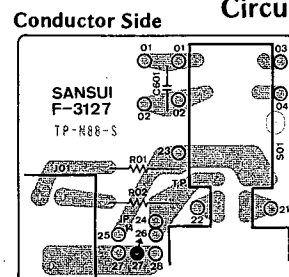
Parts List

Parts No.	Stock No.	Description
● Diode		
D 01, 02	03117800	1N60
D 03	03117600	1S2473D

Conductor Side <F-3124>



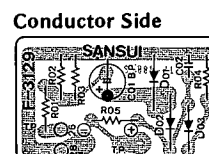
3-5. F-3127 Power Switch Circuit Board



Parts List

Parts No.	Stock No.	Description
S 01	11317900 24306000	Push Switch, power Phone Jack

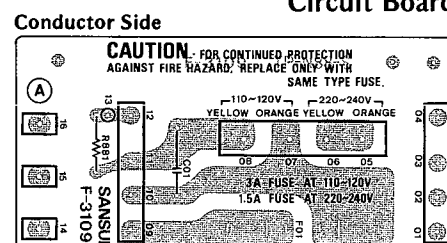
3-6. F-3129 Power Meter Drive Circuit Board



Parts List

Parts No.	Stock No.	Description
• Diode		
D 01, 02	03117800	1N60
D 03	03117600	1S2473D

3-7. F-3109 Voltage Selector Circuit Board



Parts List

Parts No.	Stock No.	Description
F 01	04322300 04322600	AC Fuse 1.5A /250V AC Fuse 3A /125V

Note: As the stock number in the parts list on this service manual is indicated in 8 digit to differ from ordinary 7 digit, please be careful when ordering parts.

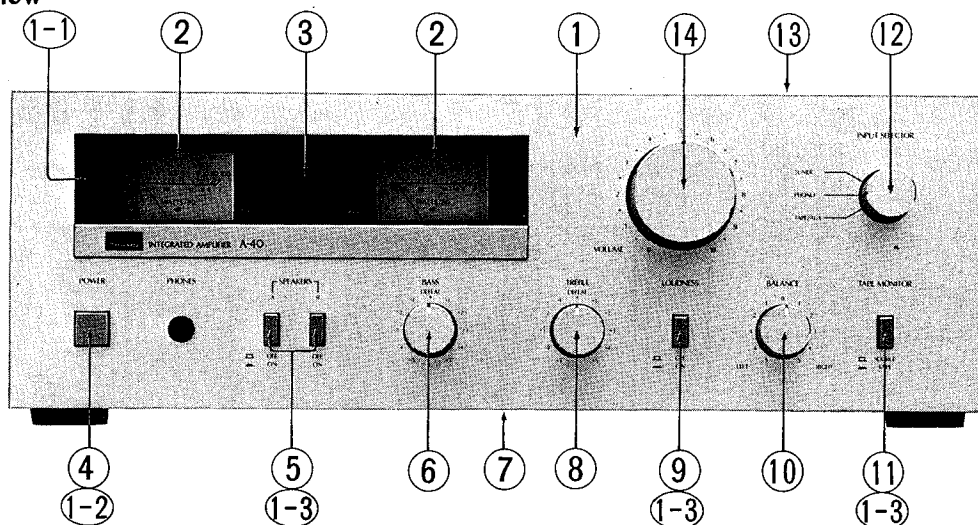
• Abbreviations

C.R. Carbon Resistor	E.L. Low Leak Electrolytic Capacitor
S.R. Solid Resistor	E.B. Bi-Polar Electrolytic Capacitor
Ce.R. Cement Resistor	E.BL. Low Leak Bi-Polar Electrolytic Capacitor
M.R. Metal Film Resistor	Ta.C. Tantalum Capacitor
F.R. Fusing Resistor	F.C. Film Capacitor
N.I.R. Non-Inflammable Resistor	M.P. Metalized Paper Capacitor
C.C. Ceramic Capacitor	P.C. Polystyrene Capacitor
C.T. Ceramic Capacitor, Temperature Compensation	G.C. Gimnic Capacitor
E.C. Electrolytic Capacitor	

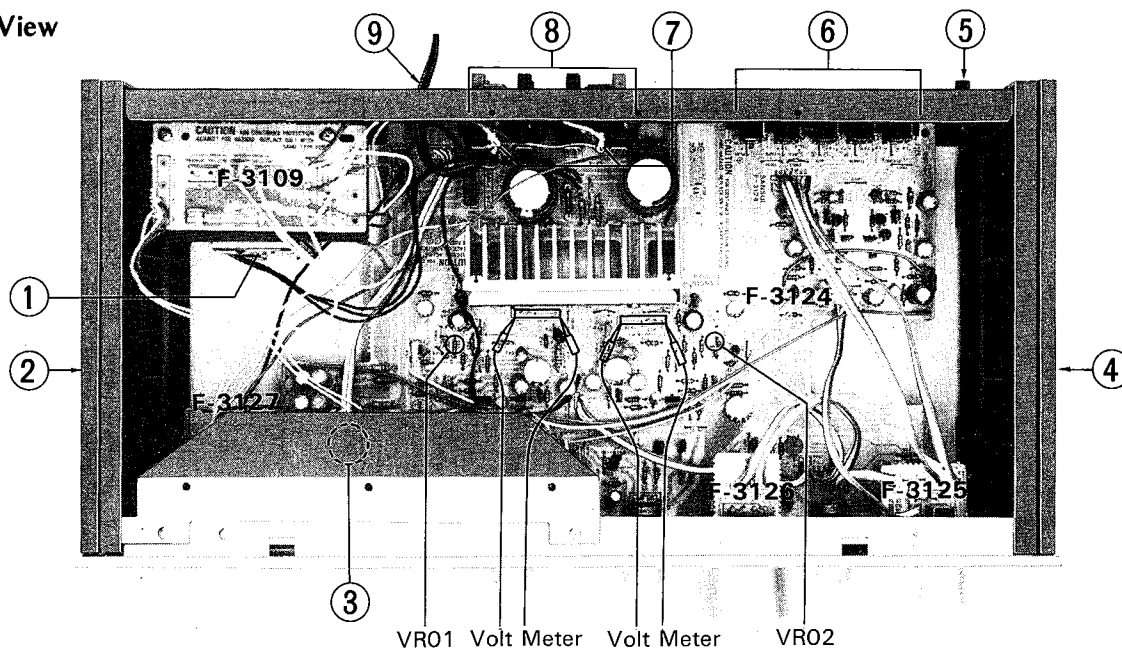
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5. OTHER PARTS

5-1. Front View



5-2. Top View



Parts List <Front View>

No.	Parts No.	Stock No.	Description
1	70086200		Front Panel Ass'y (Silver)
	70087100		Front Panel Ass'y (Black)
1-1	54465500		Meter Glass
	59560800		Knob Guide, power switch (Silver)
1-2	59560900		Knob Guide, power switch (Black)
	53967800		Knob Guide (Silver)
1-3	53967700		Knob Guide (Black)
2	43014100		Power Meter
3	73060500		Meter Flame Ass'y
	53195000		Knob, power switch (Silver)
4	53196500		Knob, power switch (Black)
	11317900		Power Switch
	53194900		Push Knob, speakers (Silver)
5	53194800		Push Knob, speakers (Black)
	11322300		Speaker Switch
	53195800		Knob, bass control (Silver)
6	53196300		Knob, bass control (Black)
	10156200		Volume 100kΩ x 2, bass control
7	50664200		Bottom Board
	53195800		Knob, treble control (Silver)
8	53196300		Knob, treble control (Black)
	10156200		Volume 100kΩ x 2, treble control

No.	Parts No.	Stock No.	Description
	53194900		Push Knob, loudness (Silver)
9	53194800		Push Knob, loudness (Black)
	11322400		Push Switch, loudness
	53195800		Knob, balance, volume (Silver)
10	53196300		Knob, balance volume (Black)
	10054600		Volume 250kΩ (B), balance
	53195800		Push Knob, tape monitor (Silver)
11	53196300		Push Knob, tape monitor (Black)
	11907800		Tape Monitor Switch
	53195800		Knob, input selector (Silver)
12	53196300		Knob, input selector (Black)
	11907800		Input Selector Switch
13	57272400		Bonnet
	53195500		Knob, volume (Silver)
14	53196400		Knob, volume (Black)
	10155700		Volume 150kΩ (B) x 2

Parts List <Top View>

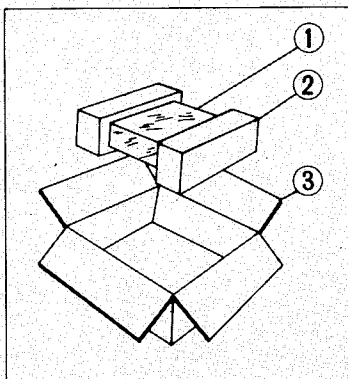
No.	Parts No.	Stock No.	Description
1	PT 701	40032100	Power Transformer
2		54578000	Side Panel (L)
3	PL 701	04007100	Lamp, 8V 300 mA
4		54578100	Side Panel (R)
5		22301500	Ground Terminal
		22007100	Input Terminal (Tape)
6		22007200	Input Terminal (Phono)
7		24501100	AC Outlet
		22902400	Output Terminal (A system)
8		22902500	Output Terminal (B system)
		38004700	AC Cord
9		39106000	Strain Relief

Note:

Since there are black & silver models in A-40, please pay attention when ordering parts.

6. PACKING LIST

No.	Stock No.	Description
1	91263800	Vinyl Cover
2	90284000	Styrofoam Packing
3	90562900	Carton Case (Black)
	90561600	Carton Case (Silver)



7. ACCESSORY PARTS LIST

Stock No.	Description
92055300	Operating Instructions

Sansui

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