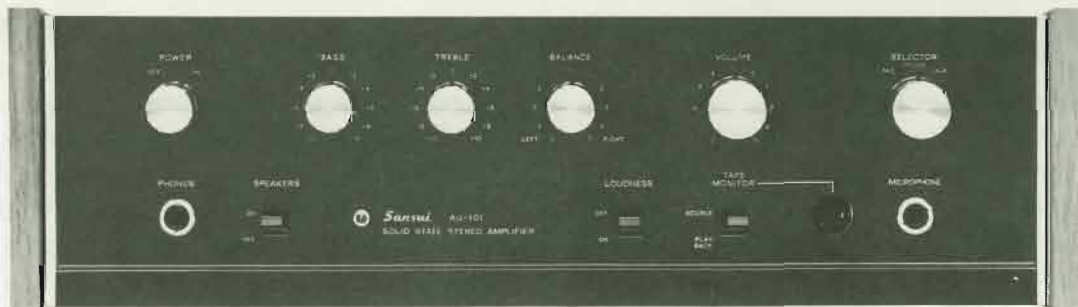


OPERATING INSTRUCTIONS & SERVICE MANUAL

SOLID-STATE STEREO AMPLIFIER

SANSUI AU-101



Sansui

SANSUI ELECTRIC CO., LTD.

OPERATIONS

Congratulations, you are now the owner of a new Sansui AU-101 control amplifier manufactured by Sansui, the world's foremost audio-only specialist.

The AU-101 incorporates many of state-of-the-art features of the more powerful Sansui AU-555A, including an all silicon solid state design, professional arrangement of controls and a satin-black control panel. Like all other AU series amplifiers, the AU-101's tonal quality has been perfected and proved not only by precision electronic measuring instruments, but also by repeated listening tests in a wide variety of environments.

These manual and operating sheet have been prepared to guide you in operating and caring for your AU-101 correctly. Please read them carefully and retain for future reference.

RECORD PLAYER

Listening to a Record

1. Set the SELECTOR switch to PHONO.
2. Make appropriate settings of controls on the record player.
3. Adjust the BALANCE control for equal sound from both right and left speakers.
4. Use all other controls and switches according to your personal taste and room acoustics.

TUNER

Listening to a Radio Program

1. Set the SELECTOR switch to AUX.
2. Use tuning controls to reach the desired station. Make appropriate settings of controls on the tuner.
3. Adjust the amplifier's front panel controls and switches according to your personal taste and room acoustics.

MICROPHONE

Use high-impedance (10 kilo-ohms or more) dynamic microphones for optimum performance.

Operation

1. Set the SELECTOR switch to MIC.
2. Use all other controls and switches according to taste and listening conditions.

TAPE DECK

Recording on Tapes

1. Set the SELECTOR switch to the program to be recorded.
2. Make appropriate settings of controls on the tape deck.

Listening to Tapes

1. Set the TAPE MONITOR switch to PLAYBACK.
2. Make appropriate settings of controls on the tape deck.
3. Use the amplifier's front panel controls and switches according to your personal taste and listening conditions.

Tape Monitoring

Monitoring is possible only with a tape deck which has its own playback preamplifier as well as separate recording and playback heads. To monitor, proceed in the same manner as indicated in the section entitled 'Listening to Tapes'.

NOTE:

1. Tape decks referred to in this section include only those with built-in playback preamplifiers.
2. Tape recorded sound cannot be controlled by the switches and controls on the front panel of the amplifier. They control sound from the speakers only.

MAINTENANCE

Wire Connections

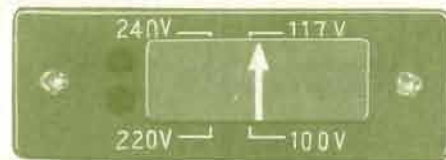
When connecting tape decks, record player or other components to the AU-101, be sure to use shielded wire. The use of an ordinary cord or vinyl wire may cause humming and buzzing. The length of the shielded wire should be shorter than 5 feet. Be sure that all lead wires between the amplifier and components are properly connected. If the connections are loose or in touch with other parts, the amplifier will not function properly, may pickup noise, and even breakdown over a period of time. Also, be sure to read the manufacturer's instructions for any component before connecting it to the AU-101.

Power Fuse

Should the amplifier fail to operate and the power indicator fail to light up when the POWER switch is turned on, the probable cause is either a power stoppage or a blown fuse. To check, remove the AU-101's line cord from its a.c. outlet, turn the fuse holder on the rear panel counterclockwise and remove the fuse. If it is blown, replace it with a new glass-tubed fuse of the same capacity (100~117V—2A, 220~240V—1.5A) after determining and eliminating the trouble source that caused the fuse to blow. Using wire or a fuse of a different capacity as a stop-gap measure is dangerous and should be avoided.

Voltage Adjustment

This plug has been set to the voltage of your area prior to shipment. If the amplifier is ever moved to an area with another voltage requirement, this plug must be changed to the proper voltage of the new area. To change, remove the cramp from the back panel, remove the plug from the voltage socket you have been using, and plug the arrow head into the appropriate voltage requirement of 100, 117, 220 or 240 volts.



Quick-Acting Fuses

If, after the POWER switch is turned on and the power indicator lights up, neither channel operates or only one operates normally, is either because one or both quick-acting fuses have blown. In this case, remove the line cord from its a.c. outlet and remove the bonnet from the chassis to check to see if the fuses are blown. If the fuses are faulty, replace them with identical 1.5A fuses (supplied) after finding and eliminating the source of trouble that caused them to blow. The trouble is probably by short at the output circuit or excessive input fed into the input circuit.

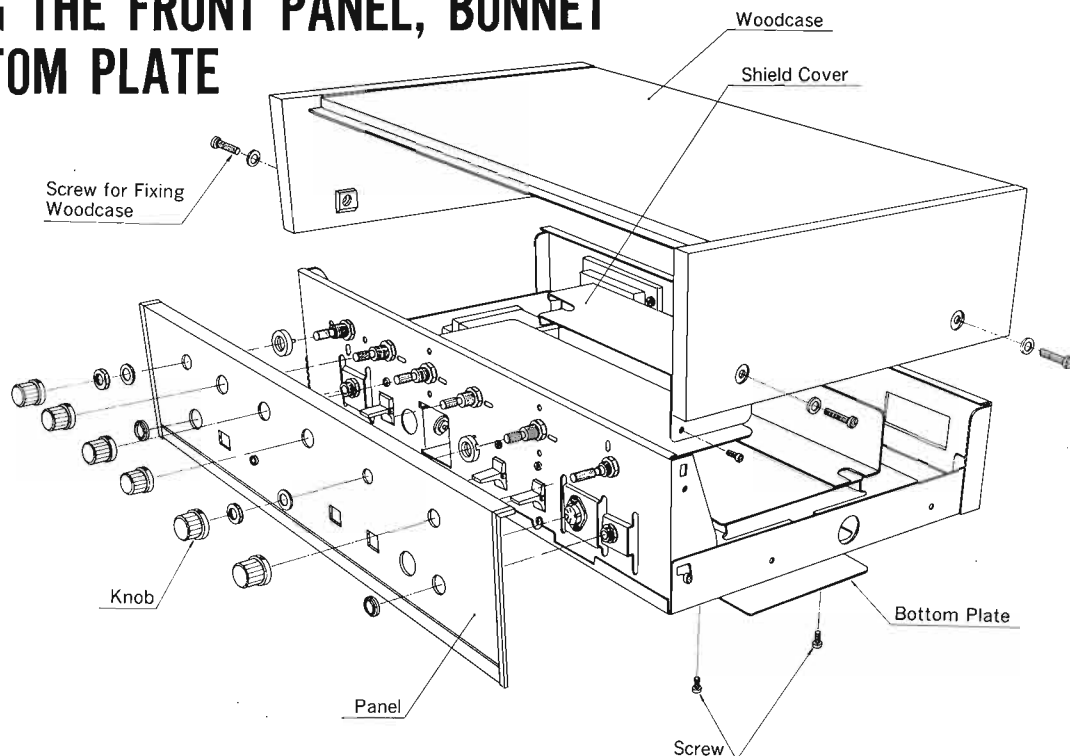
A.C. Outlets

The AU-101 is provided with two A.C. outlets on its rear panel. One outlet (marked SWITCHED) is switched on and off by the POWER switch on the front panel.

Caution: The maximum capacity of this outlet is 50VA, and the other (marked UNSWITCHED) is 150VA. Never use either beyond their rated capacity. The voltage supplied by the AC outlets is the same as the power supply voltage used.

DISASSEMBLY PROCEDURE / SPECIFICATIONS

REMOVING THE FRONT PANEL, BONNET AND BOTTOM PLATE



SPECIFICATIONS

POWER OUTPUT

CONTINUOUS RMS POWER OUTPUT:
12 Watts per channel x 2
(both channels driven)

LOAD IMPEDANCE: 8 ohms

POWER BAND: 40 to 20,000Hz

TOTAL HARMONIC DISTORTION:
less than 1.0% (from AUX)

Music power (IHF): 50W (4 ohms 1,000Hz)
44W (8 ohms 1,000Hz)

Continuous rms power output: 15+15W (8 ohms 1,000Hz)

FREQUENCY RESPONSE (at normal listening level)
20 to 60,000Hz ±2dB

CHANNEL SEPARATION (at 1,000Hz, rated output)

PHONO: better than 45dB

AUX: better than 45dB

HUM AND NOISE (IHF)

PHONO: better than 65dB

AUX: better than 75dB

INPUT SENSITIVITY (at 1,000Hz, rated output)

PHONO: 3mV (50k ohms)

MIC (MONO): 4mV (50k ohms)

AUX: 200mV (50k ohms)

TAPE MON (pin): 200mV (50k ohms)

TAPE RECORDER (DIN): 200mV (50k ohms)

RECORDING OUTPUT

TAPE REC (pin): 200mV

TAPE RECORDER (DIN): 30mV

EQUALIZER PHONO: RIAA NF type

MIC: flat NF type

TONE CONTROLS

BASS: ±13dB at 50Hz

TREBLE: ±10dB at 10,000Hz

LOUDNESS CONTROL: +8dB at 50Hz, +3dB at 10,000Hz

SWITCHES

SELECTOR: MIC, PHONO, AUX

TAPE MONITOR: SOURCE, PLAY BACK

SPEAKER: ON, OFF

SEMICONDUCTORS: Transistors; 18 Diodes; 4

POWER REQUIREMENTS

POWER VOLTAGE: 100, 117, 220, 240V 50/60Hz

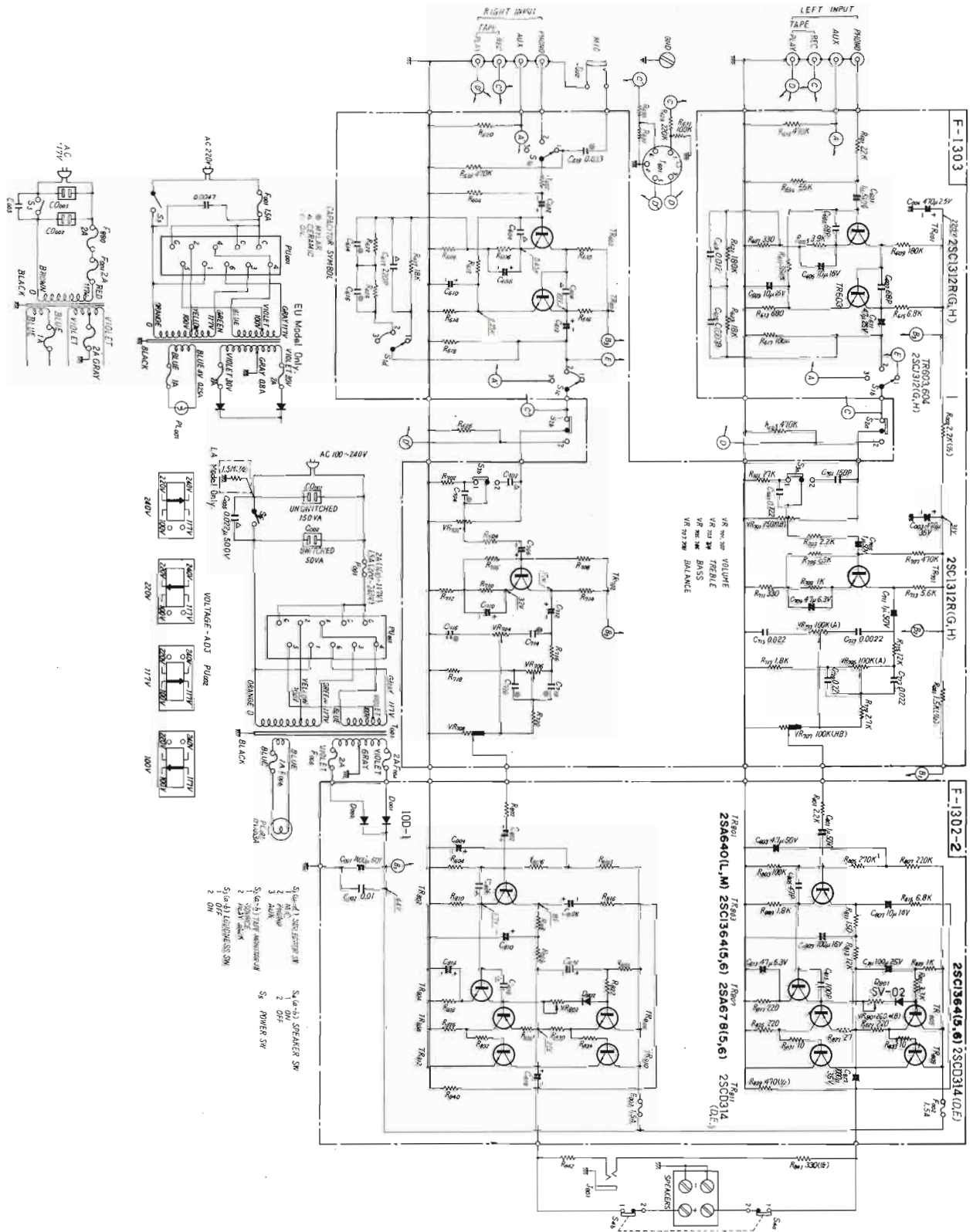
POWER CONSUMPTION: 30W (rated), 70W (max.),
80VA (max.)

DIMENSIONS: 407mm(16")W, 115mm(4¹¹/₃₂")H,
278mm(10¹⁵/₁₆")D

WEIGHT: 5.9kg (13 lbs.)

SCHEMATIC DIAGRAM

CSA Model Only.



PRINTED CIRCUIT BOARDS AND PARTS LIST

W: Parts No. X: Parts Name Y: Stock No. Z: Position of Parts

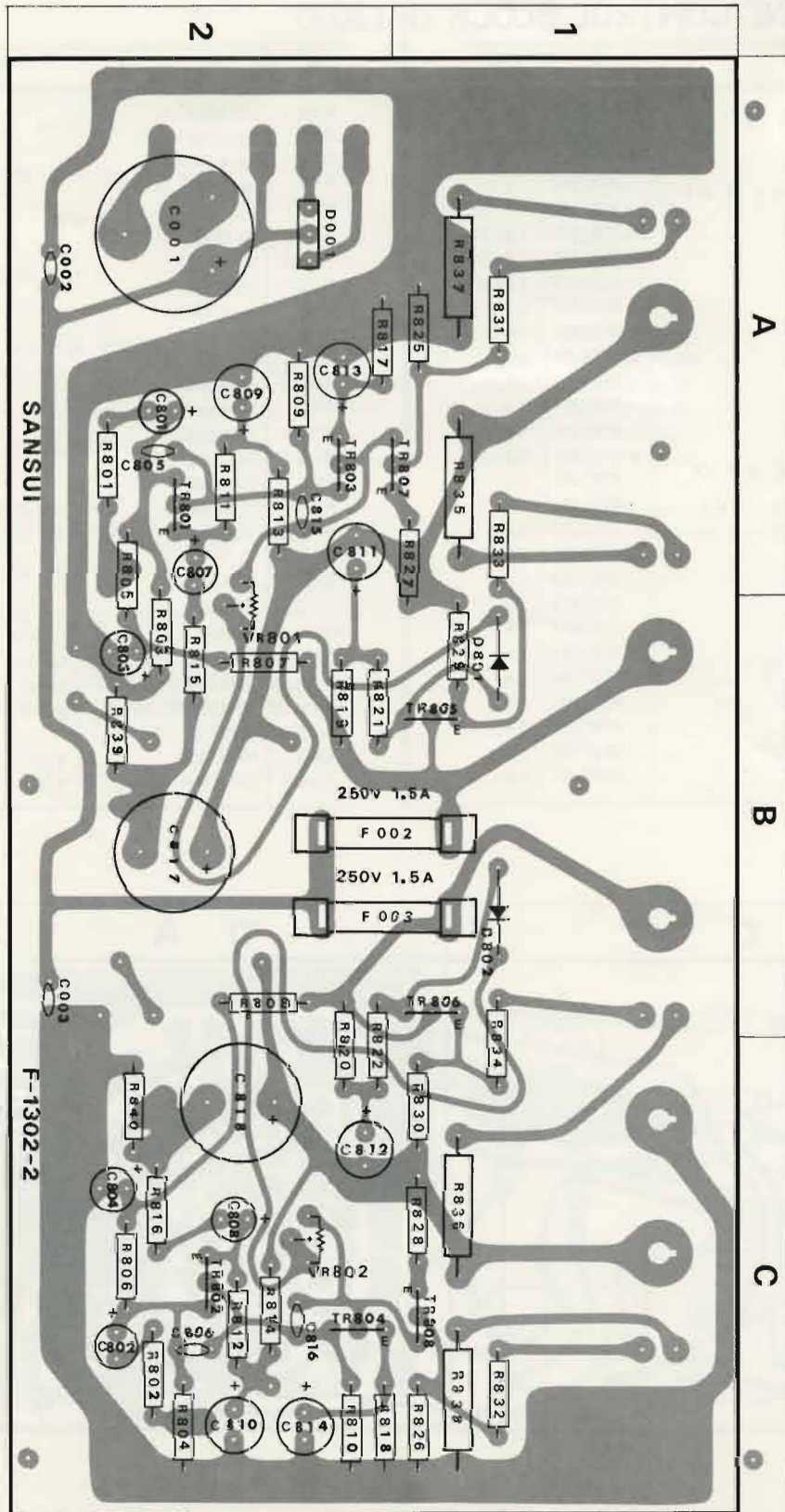
MAIN AMP. BLOCK <F-1302-2>

W	X	Y	Z
R801	2.2k Ω	0101222	2 A
R802	2.2k Ω		2 C
R803	100k Ω	0101104	2 B
R804	100k Ω		2 C
R805	270k Ω	0101274	2 A, B
R806	270k Ω		2 C
R807	220k Ω	0101224	2 B
R808	220k Ω		2 B
R809	1.8k Ω	0101182	2 A
R810	1.8k Ω		2 C
R811	150 Ω	0101151	2 A
R812	150 Ω		2 C
R813	12k Ω	0101123	2 A
R814	12k Ω		2 C
R815	6.8k Ω	0101682	2 B
R816	6.8k Ω		2 C
R817	220 Ω	0101221	2 A
R818	220 Ω		2 C
R819	1k Ω	0101102	2 B
R820	1k Ω		2 B, C
R821	3.3k Ω	0101332	2 B
R822	3.3k Ω		2 B, C
R825	220 Ω	0101221	1 A
R826	220 Ω		1 C
R827	27 Ω	0101270	1 A
R828	27 Ω		1 C
R829	220 Ω	0101221	1 B
R830	220 Ω		1 C
R831	10 Ω	0101100	1 A
R832	10 Ω		1 C
R833	10 Ω		1 A
R834	10 Ω		1 B, C
R839	470 Ω	0111471	2 B
R840	470 Ω		2 C
VR801	200 Ω (B)	1032220	2 A, B
VR802			1, 2 C
C001	1000 μ F 50 V EC.	0549104	2 A
C002	0.01 μ F $\pm 100\%$ 50 V CC.	0650103	2 A
C801	1 μ F	0515109	2 A
C802	1 μ F		2 C
C803	4.7 μ F	0515479	2 B
C804	4.7 μ F		2 C
C805	47pF	0660470	2 A
C806	47pF		2 C
C807	10 μ F	0512100	2 A
C808	10 μ F		2 C
C809	100 μ F	0512101	2 A
C810	100 μ F		2 A
C811	100 μ F	0513101	2 A
C812	100 μ F		2 C
C813	47 μ F	0510470	2 A
C814	47 μ F		2 C
C815	100pF	0660101	2 A
C816	100pF		2 C

W	X	Y	Z
C817	1000 μ F	35 V EC.	2 B
C818	1000 μ F		0549004
C819	0.047 μ F $\pm 80\%$ CC.	0657473	2 B
TR801	2SA640 (L, M)	0300301, 2	2 A
TR802			2 C
TR803			2 A
TR804	2SC1364 (5, 6)	0306130, 1	2 C
TR805			1 B
TR806			1 B
TR807	2SA678 (5, 6)	0300290, 1	1, 2 A
TR808			1 C
TR809			
TR810	2SD314 (D, E)	0308411, 2	
TR811			
TR812			
D001	10D-1	0310340	2 A
D002			2 A
D801	SV-02	0310490	1 B
D802			1 B
F002	1.5A Quick Acting Fuse	0430101	1, 2 B
F003			1, 2 B

CR: Carbon Resistor
 SR: Solid Resistor
 CeR: Cement Resistor
 MC: Mylar Capacitor
 EC: Electrolytic Capacitor

OC: Oil Capacitor
 CC: Ceramic Capacitor
 MPC: Metallized Polyester Capacitor



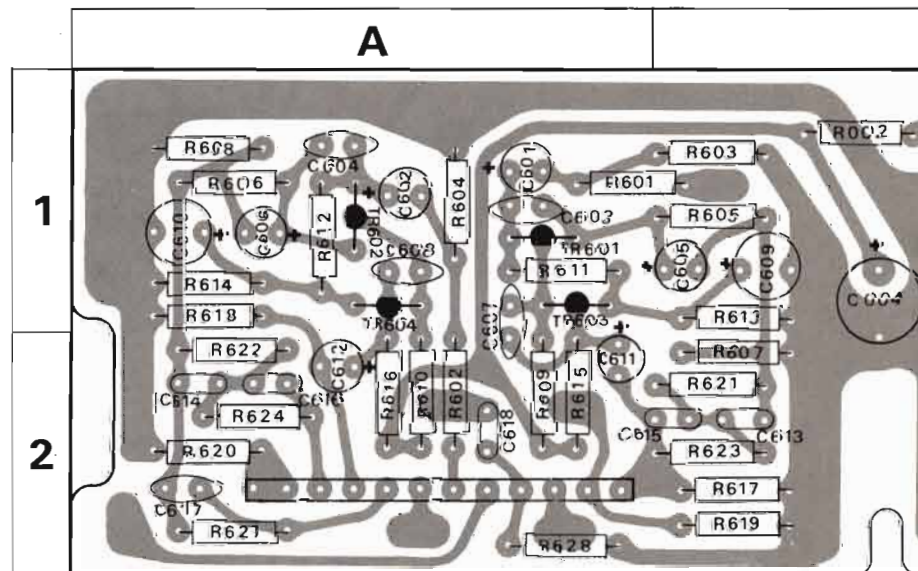
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EQUALIZER/TONE CONTROL BLOCK <F-1303>

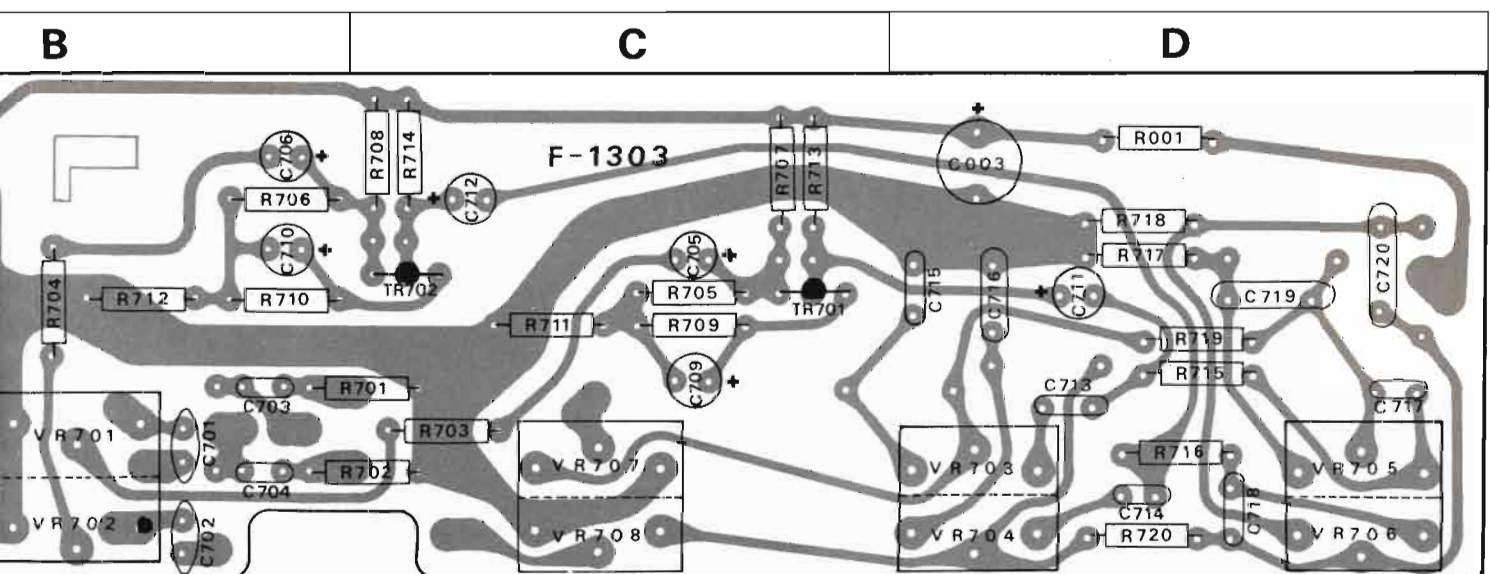
W	X	Y	Z
R001	1.5k Ω	} $\pm 10\%$ $\frac{1}{2}$ W SR.	0111152 1 D
R002	2.2k Ω		0111222 1 B
R601	2.2k Ω		0101222 1 A, B
R602	2.2k Ω		0101222
R603	56k Ω		0101563 1 B
R604	56k Ω		0101563 1 A
R605	3.9k Ω		0101392 1 B
R606	3.9k Ω		0101392 1 A
R607	330 Ω		0101331 2 B
R608	330 Ω		0101331 1 A
R609	180k Ω	0101184 2 A	
R610	180k Ω	0101184 2 A	
R611	390k Ω	0101394 1 A	
R612	390k Ω	0101394 1 A	
R613	680 Ω	} $\pm 10\%$ $\frac{1}{4}$ W CR.	0101681 2 B
R614	680 Ω		0101681 1 A
R615	6.8k Ω		0101682 2 A
R616	6.8k Ω		0101682 2 A
R617	100k Ω		0101104 2 B
R618	100k Ω		0101104 1 A
R619	470k Ω		0101474 2 B
R620	470k Ω		0101474 2 A
R621	180k Ω		0101184 2 B
R622	180k Ω		0101184 2 A
R623	18k Ω	0101183 2 B	
R624	18k Ω	0101183 2 A	
R627	18k Ω	0101183 2 A	
R628	470k Ω	0101474 2 A	

W	X	Y	Z
R701	27k Ω	} $\pm 10\%$ $\frac{1}{4}$ W CR.	0101273 2 B, C
R702	27k Ω		0101273 2 B, C
R703	2.2k Ω		0101222 2 C
R704	2.2k Ω		0101222 1, 2 B
R705	56k Ω		0101563 1 C
R706	56k Ω		0101563 1 B
R707	470k Ω		0101474 1 C
R708	470k Ω		0101474 1 C
R709	1k Ω		0101102 1 C
R710	1k Ω		0101102 1 B
R711	330 Ω	0101331 1 C	
R712	330 Ω	0101331 1 B	
R713	5.6k Ω	0101562 1 C	
R714	5.6k Ω	0101562 1 C	
R715	12k Ω	0101123 2 D	
R716	12k Ω	0101123 2 D	
R717	1.8k Ω	0101182 1 D	
R718	1.8k Ω	0101182 1 D	
R719	2.7k Ω	0101272 1, 2 D	
R720	2.7k Ω	0101272 2 D	
VR701,702	250k Ω (B) \times 2	Volume Control	1010610 2 B
VR703,704	100k Ω (A) \times 2	Treble Control	1010600 2 D
VR705,706	100k Ω (A) \times 2	Bass Control	1010600 2 D
VR707,708	100k Ω (HB)	Balance Control	1010590 2 C
C003	470 μ F	35 V EC.	0514471 1 D
C004	470 μ F	25 V EC.	0513471 1, 2 B



W	X	Y	Z
C601	1 μ F	50 V EC.	0515109 1 A
C602	1 μ F		0515109 1 A
C603	68 pF	$\pm 10\%$ 50 V CC.	0660680 1 A
C604	68 pF		0660680
C605	10 μ F	16 V EC.	0512100 1 A, B
C606	10 μ F		0512100 1 A
C607	68 pF	$\pm 10\%$ 50 V CC.	0660680 1, 2 A
C608	68 pF		0660680 1 A
C609	10 μ F	16 V EC.	0512100 1 B
C610	10 μ F		0512100 1 A
C611	4.7 μ F	25 V E.C.	0513479 1, 2 A
C612	4.7 μ F		0513479 2 A
C613	0.012 μ F	$\pm 10\%$ 50 V MC.	0601127 2 B
C614	0.012 μ F		0601127 2 A
C615	0.0039 μ F	$\pm 10\%$ 50 V MC.	0601396 2 A, B
C616	0.0039 μ F		0601396 2 A
C617	220 pF	$\pm 10\%$ 50 V CC.	0660221 2 A
C618	0.033 μ F	$\pm 10\%$ 50 V MC.	0601337 2 A
C701	150 pF	$\pm 10\%$ 50 V CC.	0660151 2 B
C702	150 pF		0660151 2 B
C703	0.022 μ F	$\pm 10\%$ 50 V MC.	0601227 2 B
C704	0.022 μ F		0601227 2 B
C705	1 μ F	50 V EC.	0515109 1 C
C706	1 μ F		0515109 1 B
C709	47 μ F	6.3 V EC.	0510470 2 C
C710	47 μ F		0510470 1 B
C711	1 μ F	50 V EC.	0515109 1 D
C712	1 μ F		0515109 1 C

W	X	Y	Z
C713	0.0022 μ F	$\pm 10\%$ 50 V MC.	0601226 2 D
C714	0.0022 μ F		0601226 2 D
C715	0.022 μ F		0601227 1 D
C716	0.022 μ F		0601227 1 D
C717	0.022 μ F		0601227 2 D
C718	0.022 μ F		0601227 2 D
C719	0.22 μ F		0601228 1 D
C720	0.22 μ F		0601228 1 D
TR601	2SC1312R (G, H)	0306091, 2	1 A
TR602	2SC1312R (G, H)	0306091, 2	1 A
TR603	2SC1312 (G, H)	0306161, 2	1 A
TR604	2SC1312 (G, H)	0306161, 2	1 A
TR701	2SC1312R (G, H)	0306091, 2	1 C
TR702	2SC1312R (G, H)	0306091, 2	1 C
SI(a~d)	Selector Switch 1-4-3	1101240	2 A



OTHER PARTS AND THEIR POSITIONS ON CHASSIS

W: Parts No. X: Parts Name Y: Stock No.

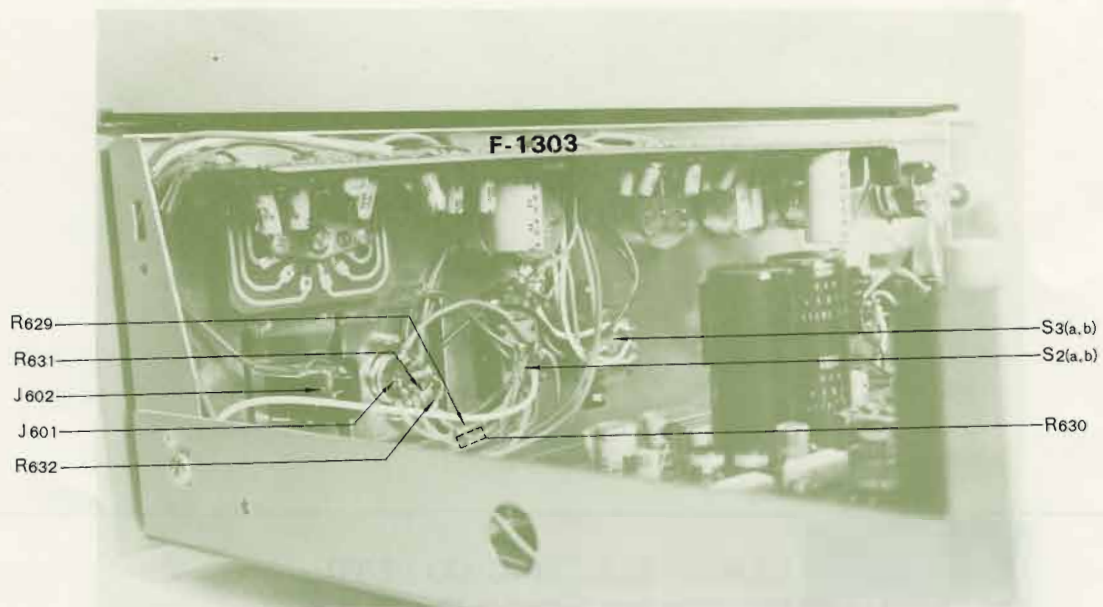
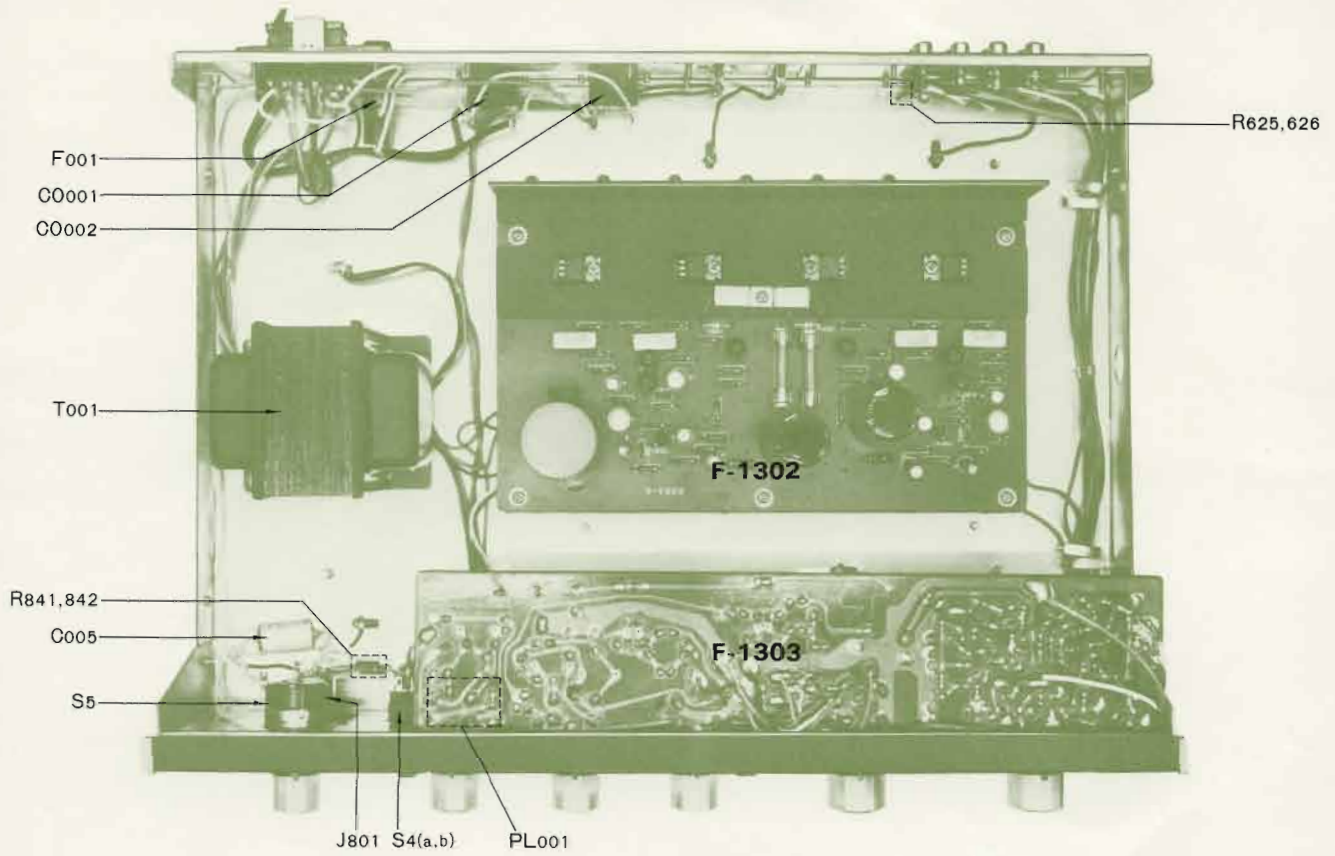
W	X	Y
R625	470k Ω }	0101474
R626	470k Ω }	0101474
R629	220k Ω }	0101224
R630	220k Ω }	0101224
R631	100k Ω }	0101104
R632	100k Ω }	0101104
R841	330 Ω }	0111331
R842	330 Ω }	0111331
	$\pm 10\%$ $\frac{1}{4}$ W CR.	
	$\pm 10\%$ $\frac{1}{2}$ W SR.	
C005	0.022 μ F $\pm 20\%$ 500V CC.	0659012
S2(a, b)	Tape Monitor Switch	1170060
S3(a, b)	Loudness Switch	1170060
S4(a, b)	Speaker Switch	1170090
S5	Power Switch	1190011
T001	Power Transformer 400-5467	4000800
CO001,002	AC Outlet	2450010
J601	DIN Socket marked TAPE MONITOR on the front Panel	2430050
F001	2A Power Fuse (100~120V)	0430131
	1.5A Power Fuse (220~240V)	0430021
	Power Fuse Holder	2300060
F004	2A } Wired in Fuse	0431840
F005	2A }	0431840
F006	1A }	0431820
PL001	7V 0.3A Pilot Lamp	0400250

Accessories List

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Operating Instructions Stock No. 9206290

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



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