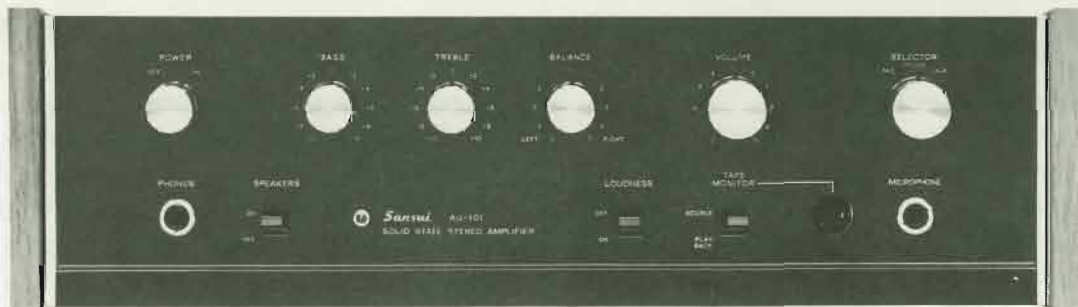


OPERATING INSTRUCTIONS & SERVICE MANUAL

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

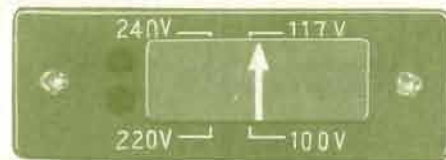
When connecting tape decks, record player or other components to the AU-101, be sure to use shielded wire. The use of an ordinary cord or vinyl wire may cause humming and buzzing. The length of the shielded wire should be shorter than 5 feet. Be sure that all lead wires between the amplifier and components 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.

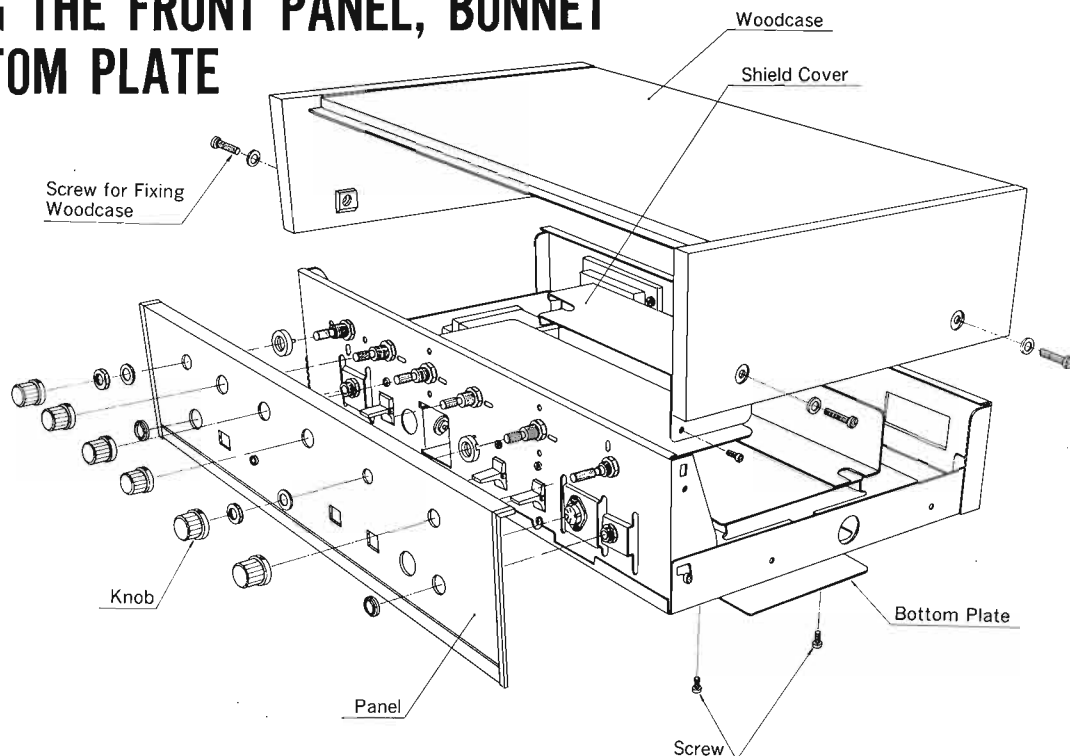
A.C. Outlets

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

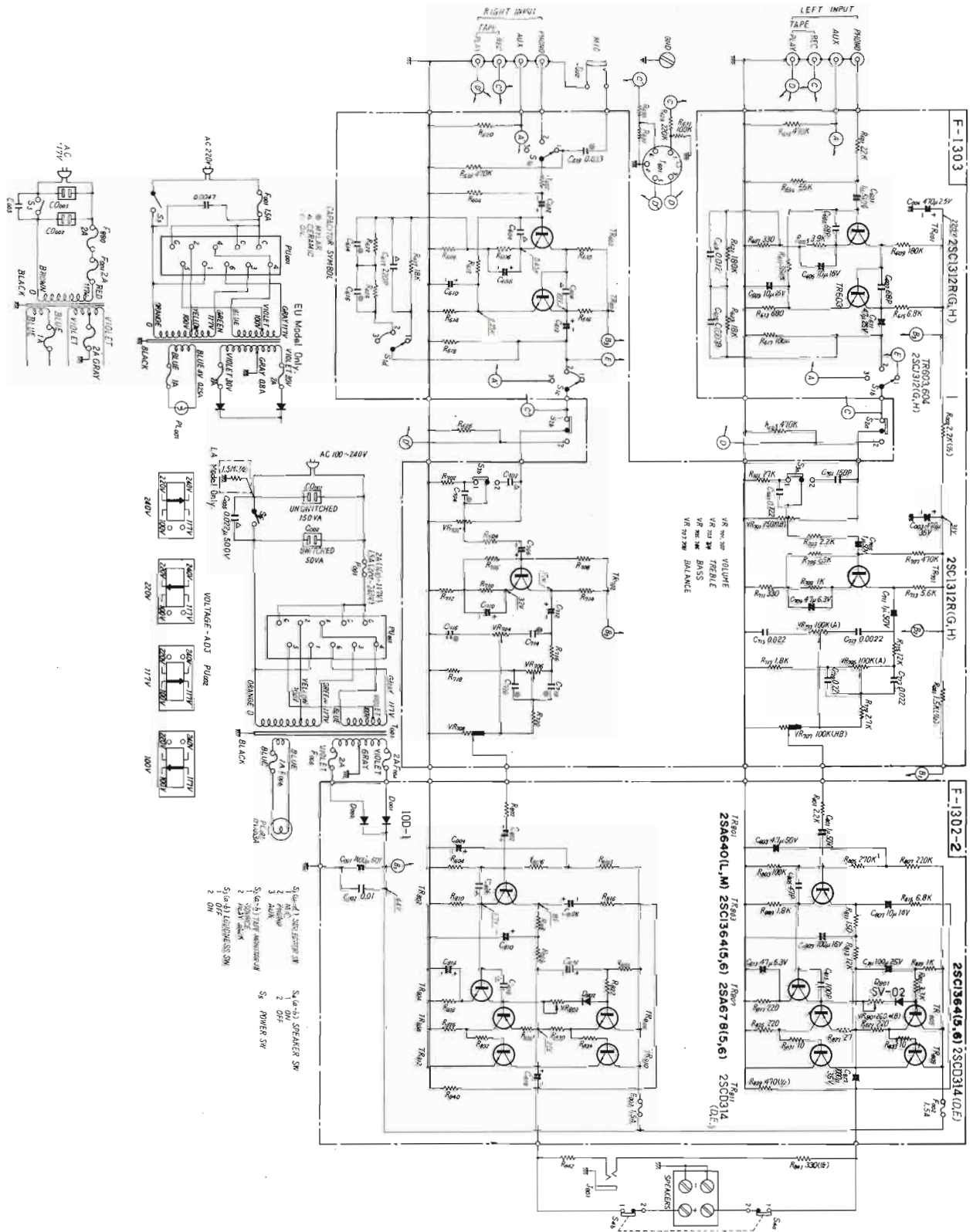
POWER CONSUMPTION: 30W (rated), 70W (max.),
80VA (max.)

DIMENSIONS: 407mm(16")W, 115mm(4¹/₃₂")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

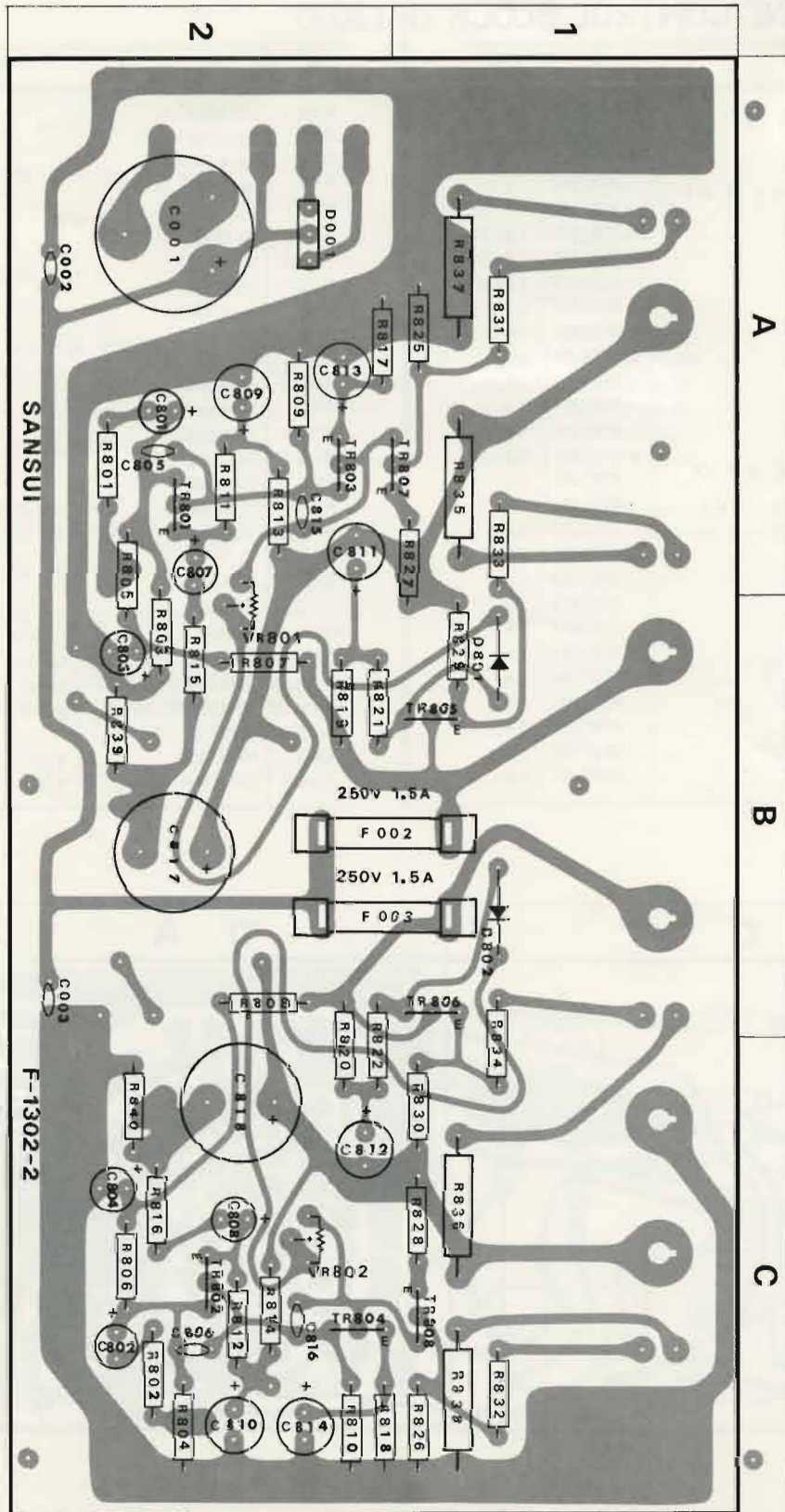
MAIN AMP. BLOCK <F-1302-2>

W	X	Y	Z
R801	2.2kΩ	0101222	2 A
R802	2.2kΩ		2 C
R803	100kΩ	0101104	2 B
R804	100kΩ		2 C
R805	270kΩ	0101274	2 A, B
R806	270kΩ		2 C
R807	220kΩ	0101224	2 B
R808	220kΩ		2 B
R809	1.8kΩ	0101182	2 A
R810	1.8kΩ		2 C
R811	150Ω	0101151	2 A
R812	150Ω		2 C
R813	12kΩ	0101123	2 A
R814	12kΩ		2 C
R815	6.8kΩ	0101682	2 B
R816	6.8kΩ		2 C
R817	220Ω	0101221	2 A
R818	220Ω		2 C
R819	1kΩ	0101102	2 B
R820	1kΩ		2 B, C
R821	3.3kΩ	0101332	2 B
R822	3.3kΩ		2 B, C
R825	220Ω	0101221	1 A
R826	220Ω		1 C
R827	27Ω	0101270	1 A
R828	27Ω		1 C
R829	220Ω	0101221	1 B
R830	220Ω		1 C
R831	10Ω	0101100	1 A
R832	10Ω		1 C
R833	10Ω		1 A
R834	10Ω		1 B, C
R839	470Ω	0111471	2 B
R840	470Ω		2 C
VR801	200Ω (B)	1032220	2 A, B
VR802			1, 2 C
C001	1000μF 50 V EC.	0549104	2 A
C002	0.01μF ±100% 50 V CC.	0650103	2 A
C801	1μF	0515109	2 A
C802	1μF		2 C
C803	4.7μF 50 V EC.	0515479	2 B
C804	4.7μF		2 C
C805	47pF ±10% 50 V CC.	0660470	2 A
C806	47pF		2 C
C807	10μF	0512100	2 A
C808	10μF		2 C
C809	100μF 16 V EC.	0512101	2 A
C810	100μF		2 A
C811	100μF	0513101	2 A
C812	100μF		2 C
C813	47μF 6.3 V EC.	0510470	2 A
C814	47μF		2 C
C815	100pF 50 V EC.	0660101	2 A
C816	100pF		2 C

W	X	Y	Z
C817	1000μF 35 V EC.	0549004	2 B
C818	1000μF		2 C
C819	0.047μF ±80% CC.	0657473	2 B
TR801	2SA640 (L, M)	0300301, 2	2 A
TR802			2 C
TR803	2SC1364 (5, 6)	0306130, 1	2 A
TR804			2 C
TR805			1 B
TR806			1 B
TR807	2SA678 (5, 6)	0300290, 1	1, 2 A
TR808			1 C
TR809	2SD314 (D, E)	0308411, 2	
TR810			
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



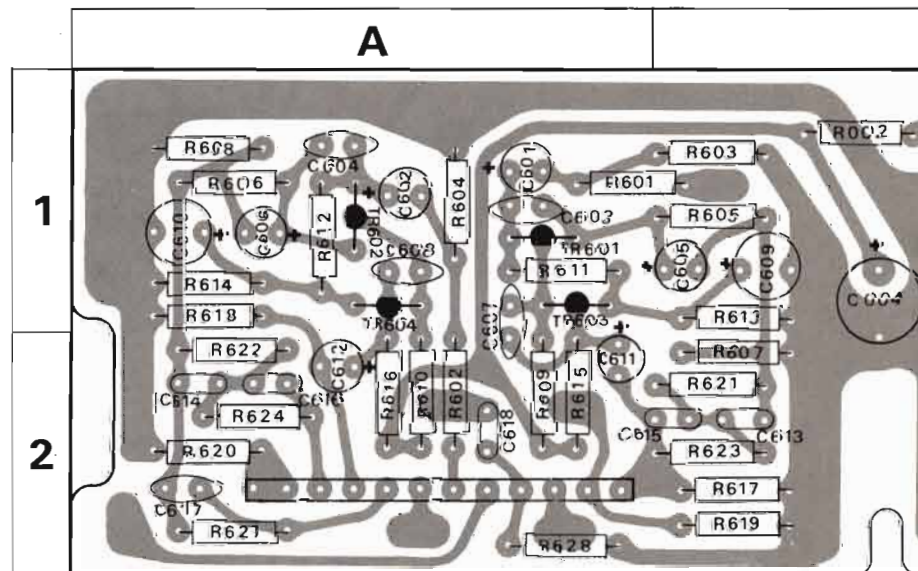
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EQUALIZER/TONE CONTROL BLOCK <F-1303>

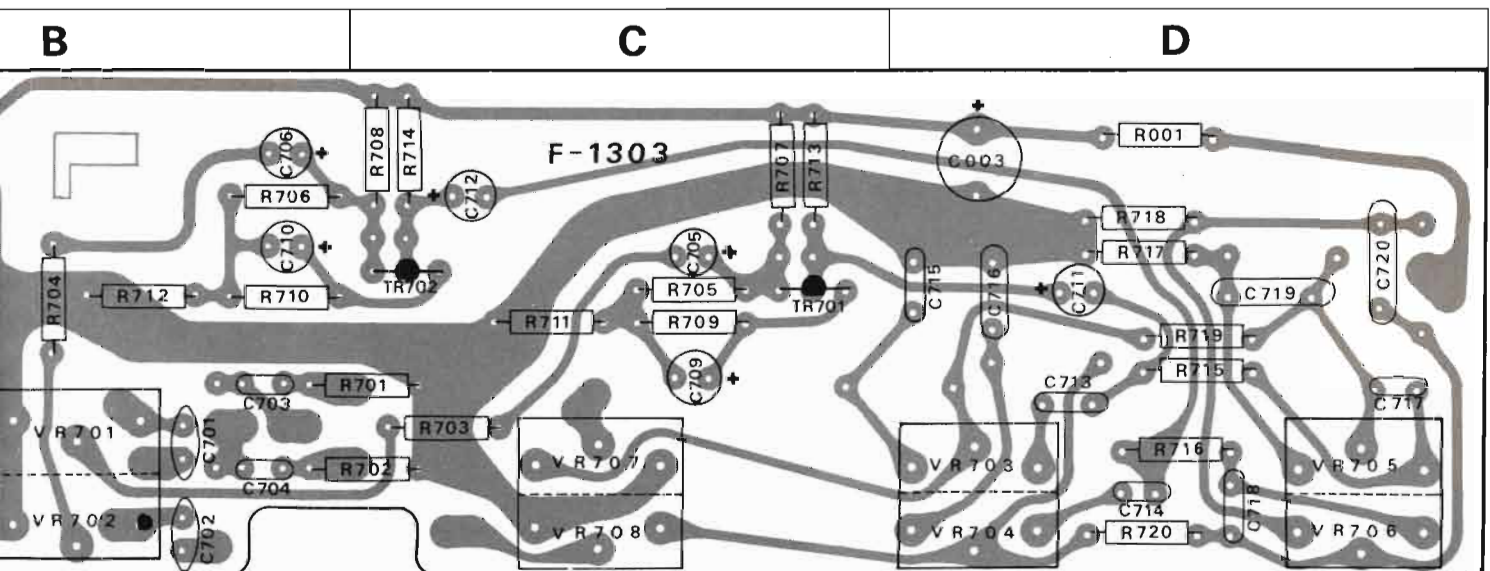
W	X	Y	Z
R001	1.5kΩ	±10% 1/2W SR.	0111152 1D
R002	2.2kΩ		0111222 1B
R601	2.2kΩ		0101222 1A, B
R602	2.2kΩ		0101222
R603	56kΩ		0101563 1B
R604	56kΩ		0101563 1A
R605	3.9kΩ		0101392 1B
R606	3.9kΩ		0101392 1A
R607	330Ω		0101331 2B
R608	330Ω		0101331 1A
R609	180kΩ	0101184 2A	
R610	180kΩ	0101184 2A	
R611	390kΩ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

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



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	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.

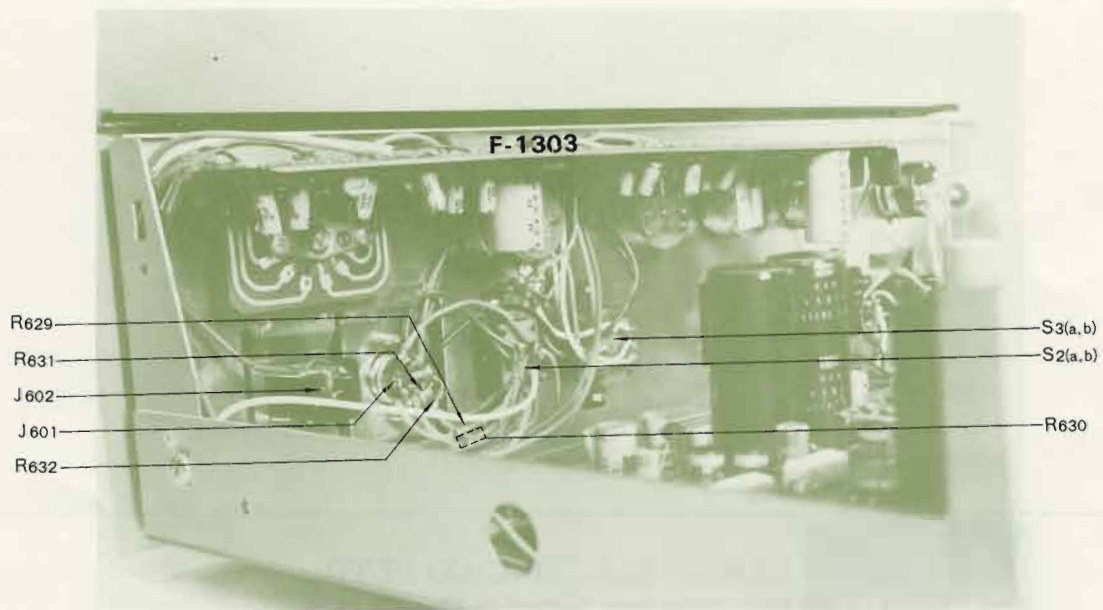
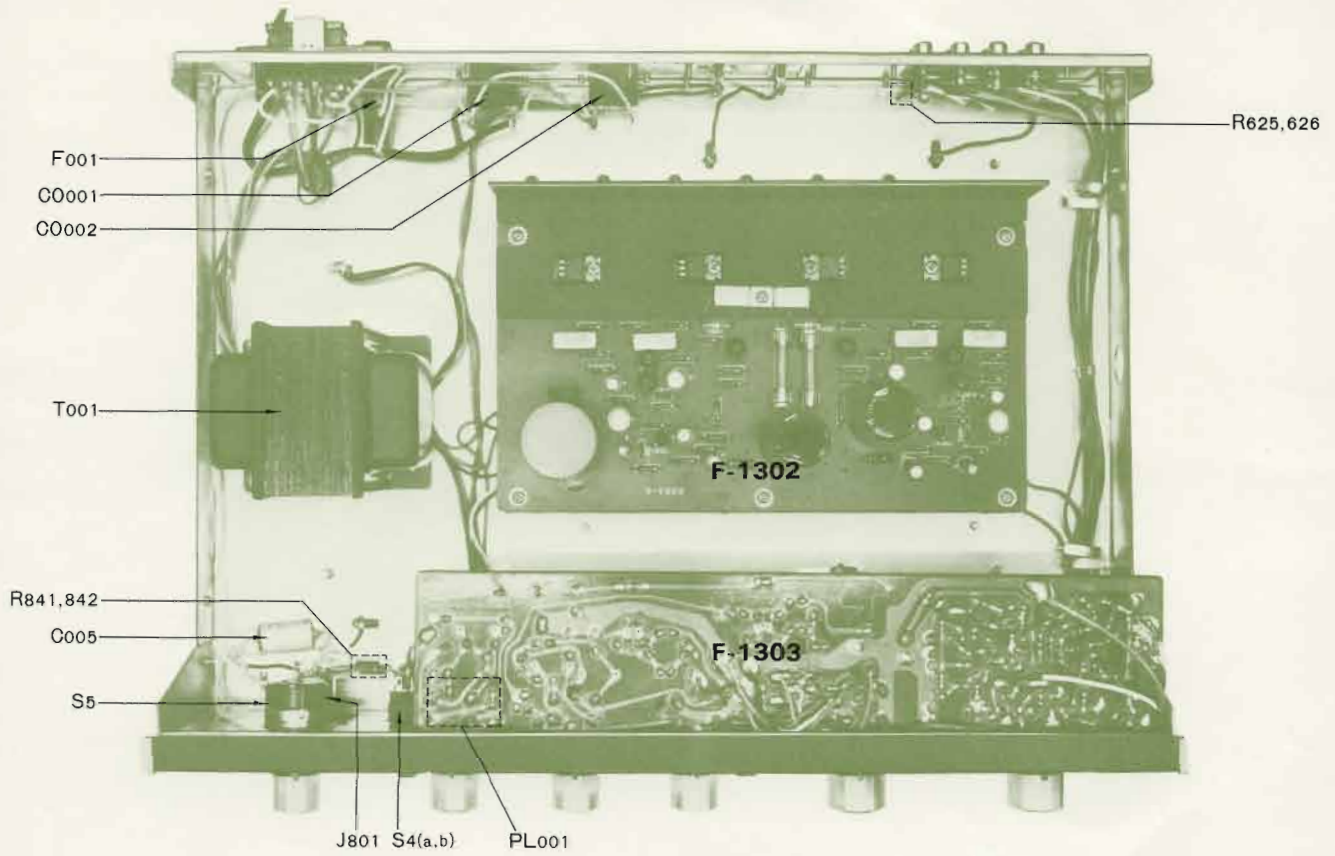
W	X	Y
R625	470k Ω }	0101474
R626	470k Ω }	0101474
R629	220k Ω }	0101224
R630	220k Ω }	0101224
R631	100k Ω }	0101104
R632	100k Ω }	0101104
R841	330 Ω }	0111331
R842	330 Ω }	0111331
	$\pm 10\%$ $\frac{1}{4}$ W CR.	
	$\pm 10\%$ $\frac{1}{2}$ W SR.	
C005	0.022 μ F $\pm 20\%$ 500V CC.	0659012
S2(a, b)	Tape 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.



OTHER PAGES ARE YOUR FAVORITE DISCOUNT



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