ORDER NO. AD7409-093

Service Manual

Technics by Panasonic
HI-FI COMPONENTS
Technics by Panasonic

(for European Military)

Stereo Control Center MODEL SU-9600

TECHNICAL SPECIFICATIONS (For accommodating future improvements, specifications are subject to change without notice.)

AMPLIFIER SECTIONS (IHF)

Input sensitivity and impedance		
PHONO 1		2 mV/25k, 50k, 100kΩ
PHONO 2		1 mV~3 mV/25k, 50k, 100kΩ
TUNER, AUX 1, AUX 2		100mV/50kΩ
TAPE DECK 1, 2 PLAYBACK		100mV/50kΩ
PHONO maximum input voltage		
PHONO 1		900mV
PHONO 2		450mV~1350mV
Total harmonic distortion		0.08%
Intermodulation distortion		0.08%
Signal-to-noise ratio		
PHONO 1		73 dB
PHONO 2		69 dB~76 dB
TUNER, AUX 1, 2		95 dB
Frequency response		
PHONO		RIAA standard curve ±0.3 dB
TUNER, AUX 1, 2		2 Hz~100 kHz, +0 dB, −3 dB
Tone controls		
BASS		50 Hz, +12.5 dB −12.5 dB (11 steps)
TREBLE		20 kHz, +12.5 dB −12.5 dB (11 steps)
Turnover frequencies		
BASS		125 Hz, 500 Hz
TREBLE		2 kHz, 8 kHz
Filters		
Low		15 Hz, 30 Hz −18 dB/oct.
High		10 kHz, 15 kHz −18 dB/oct.
Muting		−20 dB
Output voltage and impedance		
OUTPUT 1, 2	**Rated**	1V/600Ω
	Max.	11V/600Ω
TAPE DECK 1, 2	**REC OUT**	100mV/600Ω

GENERAL

Power supply	AC 110/120/220/240V 50/60Hz
Power consumption	17W
Dimensions (W × H × D)	17 23/32" × 6 13/16" × 14 3/4"
	450 × 173 × 375 mm
Weight	23.2 lb. 10.5 kg

Matsushita Electric Corp. of America Pan Am Bldg., 200 Park Ave., New York. N. Y. 10017
Matsushita Electric Corp. of Hawaii, Inc. 320. Waiakamilo Road Honolulu, Hawaii 96817
Matsushita Electric of Canada Ltd. 40 Ronson Drive, Rexdale, Ont.

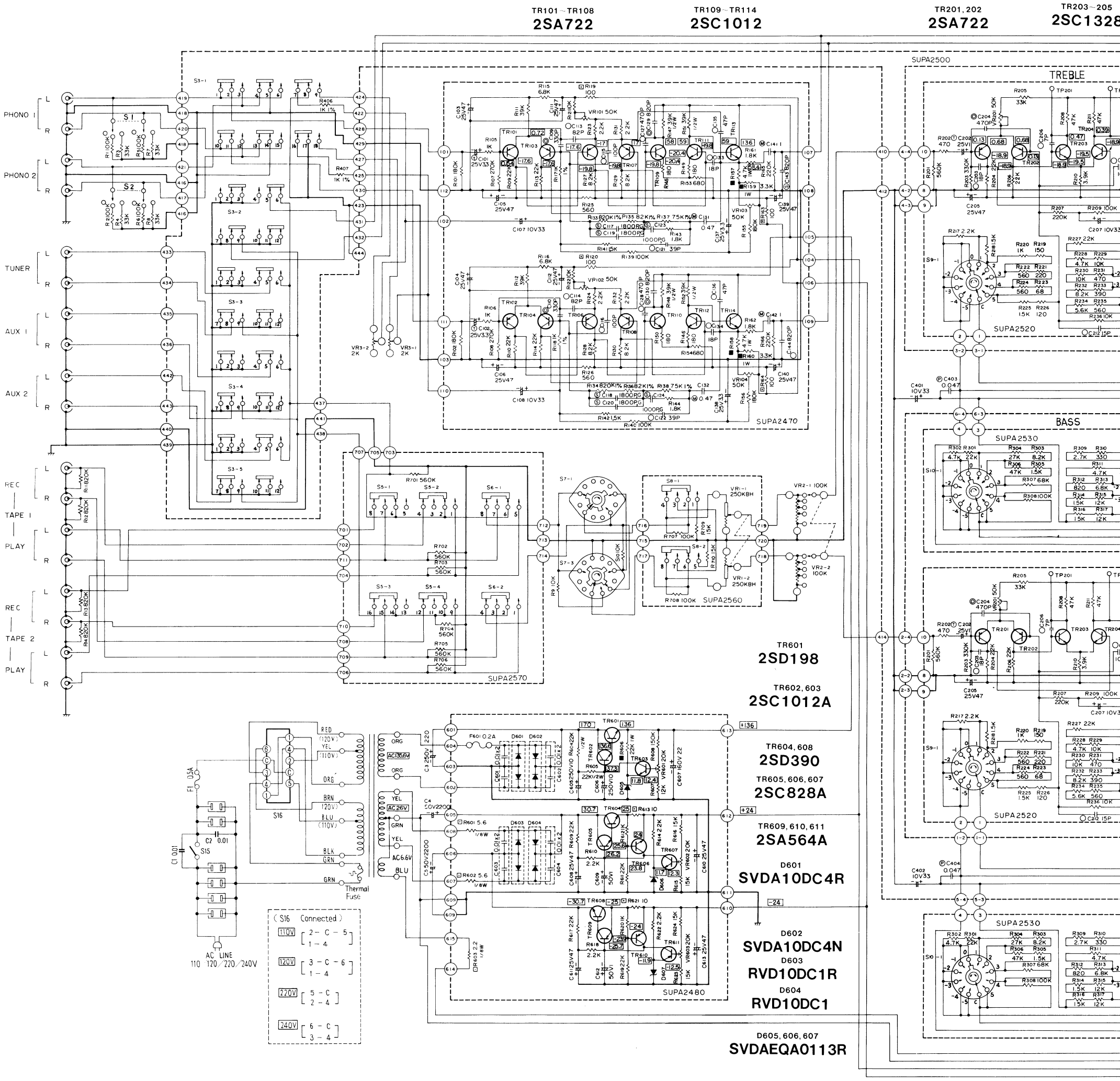
■ REPLACEMENT PARTS LIST

NOTES:

1. Part numbers are indicated on most mechanical parts. Please use this part number, for parts orders.

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
TRANSISTORS				
TR101, 102, 103, 104, 105, 106, 107, 108, (201, 202) ×2 501, 502, 505, 506, 509, 510, 513, 514	2SA722T	Equalizer, Tone & Filter Amplifier	20	
TR109, 110, 111, 112, 113, 114	2SC1012	Equalizer Amplifier	6	
TR (203, 204, 205) ×2 503, 504, 507, 508, 511, 512, 515, 516	2SC1328T	Tane & Filter Amplifier	14	
TR601	2SD198	DC Voltage Control	1	
TR602, 603	2SC1012A	An Error Voltage Det. & DC Amp.	2	
TR604, 608	2SD390P	DC Voltage Control	2	
TR401, 402, 605, 606, 607	2SC828A-R	Relay Driver & An Error Voltage Detector	5	
TR609, 610, 611	2SA564A-R	DC Amp & An Error Voltage Det.	3	
DIODES				
D401	MA150	Rectifier	1	
D601	SVDA10DC4-R	Rectifier	1	
D602	SVDA10DC4-N	Rectifier	1	
D603	RVD10DC1-R	Rectifier	1	
D604	RVD10DC1	Rectifier	1	
D605, 606, 607	SVDAEQA0113R	13V Zener, Voltage Stabilizer	3	
TRANSFORMER				
T1	SLTA5N15S	Power Transformer	1	
RESISTORS				
R (223) ×2	ERD14TJ680	68Ω, ¼W, ±5%, Carbon	2	
R (226) ×2	ERD14TJ121	120Ω, ¼W, ±5%, Carbon	2	
R (219) ×2	ERD14TJ151	150Ω, ¼W, ±5%, Carbon	2	
R149, 150	ERD14TJ181	180Ω, ¼W, ±5%, Carbon	2	
R (221) ×2	ERD14TJ221	220Ω, ¼W, ±5%, Carbon	2	
R (310) ×2	ERD14TJ331	330Ω, ¼W, ±5%, Carbon	2	
R (233) ×2	ERD14TJ391	390Ω, ⅛W, ±5%, Carbon	2	
R (202, 231) ×2	ERD14TJ471	470Ω, ¼W, ±5%, Carbon	4	
R125, 126, (213, 222, 224, 235) ×2, 515, 516, 533, 534, 555, 556, 577, 578	ERD14TJ561	560Ω, ¼W, ±5%, Carbon	18	
R (312) ×2	ERD14TJ821	820Ω, ¼W, ±5%, Carbon	2	
R (220) ×2, 503, 504, 521, 522, 547, 548, 569, 570, 612, 620	ERD14TJ102	1kΩ, ¼W, ±5%, Carbon	12	
R141, 142, (218, 225, 305, 314) ×2	ERD14TJ152	1.5kΩ, ¼W, ±5%, Carbon	10	
R143, 144, 161, 162	ERD14TJ182	1.8kΩ, ¼W, ±5%, Carbon	4	
R123, 124, 131, 132 (217) ×2, 610, 614, 618, 622	ERD14TJ222	2.2kΩ, ¼W, ±5%, Carbon	10	
R (309) ×2	ERD14TJ272	2.7kΩ, ¼W, ±5%, Carbon	2	
R402	ERD14TJ332	3.3kΩ, ¼W, ±5%, Carbon	1	
R (210, 212) ×2	ERD14TJ392	3.9kΩ, ¼W, ±5%, Carbon	4	
R (228, 302, 311) ×2	ERD14TJ472	4.7kΩ, ¼W, ±5%, Carbon	6	
R (239) ×2 513, 514, 531, 532	ERD14TJ562	5.6kΩ, ¼W, ±5%, Carbon	6	
R115, 116, (313) ×2, 553, 554, 575, 576	ERD14TJ682	6.8kΩ, ¼W, ±5%, Carbon	8	
R127, 128, 129, 130, (232, 303) ×2, 549, 550 571, 572	ERD14TJ822	8.2kΩ, ¼W, ±5%, Carbon	12	
R9, 10, 121, 122, (229, 230, 236) ×2, 509, 510, 527, 528, 537, 538, 541, 542, 551, 552, 561, 562, 563, 564, 573, 574	ERD14TJ103	10kΩ, ¼W, ±5%, Carbon	26	
R (315, 317) ×2 401, 607	ERD14TJ123	12kΩ, ¼W, ±5%, Carbon	6	
R (316) ×2, 615, 616, 623, 624, 709, 710	ERD14TJ153	15kΩ, ¼W, ±5%, Carbon	8	
R109, 110, 113, 114, (204, 206, 227, 301) ×2 609, 611, 617, 619	ERD14TJ223	22kΩ, ¼W, ±5%, Carbon	16	
R (304) ×2	ERD14TJ273	27kΩ, ¼W, ±5%, Carbon	2	
R3, 4, 7, 8, (205) ×2	ERD14TJ333	33kΩ, ¼W, ±5%, Carbon	6	
R111, 112, 403,	ERD14TJ393	39kΩ, ¼W, ±5%, Carbon	3	
R (208, 211, 306) ×2, 404	ERD14TJ473	47kΩ, ¼W, ±5%, Carbon	7	
R525, 526	ERD14TJ563	56kΩ, ¼W, ±5% Carbon	2	
R (307) ×2 507, 508	ERD14TJ683	68kΩ, ¼W, ±5%, Carbon	4	
R1, 2, 5, 6, (308) ×2, 707 708	ERD14TJ104	100kΩ, ¼W, ±5%, Carbon	8	
R139, 140, (209) ×2, 543, 544, 545, 546, 565, 566, 567, 568	ERD14TSJ104	100kΩ, ¼W, ±5%, Carbon	12	
R511, 512, 529, 530	ERD14TSJ154	150kΩ, ¼W, ±5%, Carbon	4	
R608	ERD14TJ154	150kΩ, ¼W, ±5%, Carbon	1	
R405	ERD14TJ184	180kΩ, ¼W, ±5%, Carbon	1	
R101, 102, 155, 156, 523, 524	ERD14TSJ184	180kΩ, ¼W, ±5%, Carbon	6	
R (207) ×2 505, 506,	ERD14TSJ224	220kΩ, ¼W, ±5%, Carbon ⅛W ±5%, Carbon	4	
R165, 166, (214) ×2, 517, 518, 535, 536, 557, 558, 579, 580	ERD14TJ224	220kΩ, ¼W, ±5%, Carbon	12	
R107, 108	ERD14TSJ274	270kΩ, ¼W, ±5%, Carbon	2	
R (203) ×2	ERD14TSJ334	330kΩ, ¼W, ±5%, Carbon	2	
R501, 502, 519, 520, 539, 540, 559, 560	ERD14TSJ474	470kΩ, ¼W, ±5%, Carbon	8	
R (201) ×2, 701, 702, 703, 704, 705, 706	ERD14TSJ564	560kΩ, ¼W, ±5%, Carbon	8	
R11, 12, 13, 14	ERD14TSJ824	820kΩ, ¼W, ±5%, Carbon	4	
R117, 118, 406, 407	ERD14TF1001	1kΩ, ¼W, ±1%, Carbon	4	
R137, 138	ERD14TF7502	75kΩ, ¼W, ±1%, Carbon	2	
R135, 136	ERD14TF8202	82kΩ, ¼W, ±1%, Carbon	2	
R133, 134	ERO14CKF8203	820kΩ, ¼W, ±1%, Carbon	2	
R613, 621	ERD14FJ100	10Ω, ¼W, ±5%, Carbon	2	
R119, 120, 163, 164, (215, 216) ×2, 581, 582, 583, 584	ERD14FJ101	100Ω, ¼W, ±5%, Carbon	12	
R145, 146	ERD14FJ181	180Ω, ¼W, ±5%, Carbon	2	
R153, 154	EDD14FJ681	680Ω, ¼W, ±5%, Carbon	2	
R105, 106	ERD14FJ102	1kΩ, ¼W, ±5%, Carbon	2	
R603	ERD18FJ2R2	2.2Ω, ½W, ±5%, Carbon	1	
R601, 602	ERD18FJ5R6	5.6Ω, ½W, ±5%, Carbon	2	
R604, 605	ERD12TJ223	22kΩ, ½W, ±5%, Carbon	2	
R147, 148, 151, 152	ERD12TJ393	39kΩ, ½W, ±5%, Carbon	4	
R159, 160	ERG1ANJ332	3.3kΩ, 1 W, ±5%, Metallic	2	
R157, 158	ERG1ANJ472	4.7kΩ, 1 W, ±5%, Metallic	2	
R606	ERG1ANJ223	22kΩ, 1 W, ±5%, Metallic	1	
VARIABLE RESISTORS				
VR601, 602, 603	EVLS3AAOOB24	20kΩ (B), Voltage Stabilizer Adjustment	3	
VR101, 102, 103, 104,	EVLS3AAOOB54	50kΩ (B), Equalizer Circuit Adjustment	4	
VR (201) ×2	EVLSOAAOOB54	50kΩ (B), Tone Amp. Adustment	2	
VR1-1, 1-2	EWFNTAF25252	250kΩ (BH), Balance Control	1	
VR2-1, 2-2	SVVAAG38260R	100kΩ (A), Volume Control	1	
VR3-1, 3-2	EVR4AA300B23	2kΩ (B), Phono Gain Control	1	
CAPACITORS				
C (206) ×2	ECCD1H070DC	7pF, 50WV, ±0.5pF, Ceramic	2	
C (208) ×2	ECCD1H100DC	10pF, 50WV, ±0.5pF, Ceramic	2	
C (212) ×2	ECCD1H150K	15pF, 50WV, ±10%, Ceramic	2	
C (203) ×2	ECCD1H180K	18pF, 50WV, ±10%, Ceramic	2	
C113, 114	ECCD1H820JC	82pF, 50WV, ± 5%, Ceramic	2	
C115, 116	ECCD1H101JC	100pF, 50WV, ± 5%, Ceramic	2	
C133, 134	ECCD2H180K	18pF, 500WV, ±10%, Ceramic	2	
C135, 136	ECCD2H470JC	47pF, 500WV, ± 5%, Ceramic	2	
C (204) ×2	ECKD1H471KB	470pF, 50WV, ±10%, Ceramic	2	
C425	ECKE1H472MD	0.0047μF, 50WV, ±20%, Ceramic	1	
C109, 110	ECKD2H331KB	330pF, 500WV, ±10%, Ceramic	2	
C127, 128	ECKD2H471KB	470pF, 500WV, ±10%, Ceramic	2	
C129, 130	ECKD2H821KB	820pF, 500WV, ±10%, Ceramic	2	
C415, 416, 417, 418, 525, 526	ECQS1331JZ	330pF, 125WV, ± 5%, Styrol	6	
C539, 540	ECQS1371JZ	370pF, 125WV, ± 5%, Styrol	2	
C523, 524	ECQS1471JZ	470pF, 125WV, ± 5%, Styrol	2	
C143, 144, 537, 538	ECQS1821JZ	820pF, 125WV, ± 5%, Styrol	4	
C123, 124	ECQS1102GZ	1000pF, 125WV, ± 2%, Styrol	2	
C117, 118, 119 120	ECQS1182GZ	1800pF, 125WV, ± 2%, Styrol	4	
C419, 420, 531, 532	ECQM05102JZ	0.001μF, 50WV, ± 5%, Polyester	4	
C545, 546	ECQM05152JZ	0.0015μF, 50WV, ± 5%, Polyester	2	
C527, 528	ECQM05182JZ	0.0018μF, 50WV, ± 5%, Polyester	2	
C541, 542	ECQM05272JZ	0.0027μF, 50WV, ± 5%, Polyester	2	
C423, 424	ECQM05332JZ	0.0033μF, 50WV, ± 5%, Polyester	2	
C407, 408	ECQM05392JZ	0.0039μF, 50WV, ± 5%, Polyester	2	
C405, 406	ECQM05472JZ	0.0047μF, 50WV, ± 5%, Polyester	2	
C421, 422	ECQM05103JZ	0.01μF, 50WV, ± 5%, Polyester	2	
C409, 410	ECQM05153JZ	0.015μF, 50WV, ± 5%, Polyester	2	
C413, 414	ECQM05223JZ	0.022μF, 50WV, ± 5%, Polyester	2	
C403, 404	ECQM05473JZ	0.047μF, 50WV, ± 5%, Polyester	2	
C513, 514, 515, 516, 517, 518	ECQM05563JZ	0.056μF, 50WV, ± 5%, Polyester	6	
C411, 412, 505, 506, 507, 508, 509, 510	ECQM05104JZ	0.1μF, 50WV, ± 5%, Polyester	8	
C428	ECQM05154MZ	0.15μF, 50WV, ±20%, Polyester	1	
C511, 512, 519, 520	ECQM05474MZ	0.47μF, 50WV, ±20%, Polyester	4	
C (211) ×2 533, 534, 547 548	ECQM05105MZ	1μF, 50WV, ±20%, Polyester	6	
C141, 142	ECQH2105MZ	1μF, 250WV, ±20%, Polyester	2	
C131, 132	ECQT2474N	0.47μF, 250WV, ±20%, Polyester	2	
C1	ECQU2A103MD	0.01μF, 250VAC, ±20% Polyester	1	
C2	ECQU2A103MD	0.01μF, 250VAC, ±20%, Polyester	1	
C4, 5	ECEM50R222U	2200μF, 50WV, Electrolytic	2	
C3	ECEM250V220U	220μF, 250WV, Electrolytic	1	
C107, 108 (207) ×2, 401, 402	ECEA10V33	33μF, 10WV, Electrolytic	6	
C529, 530, 543, 544	ECEA10V47	47μF, 10WV, Electrolytic	4	
C427	ECEA10V1000	1000μF, 10WV, Electrolytic	1	
C137, 138, 426	ECEA25V3R3	3.3μF, 25WV, Electrolytic	3	
C (209) ×2	ECEA25V10	10μF, 25WV, Electrolytic	2	
C105, 106, 139, 140, (205, 210) ×2, 501, 502, 503 504, 610, 613	ECEA25V47	47μF, 25WV, Electrolytic	14	
C609, 612	ECEA50V1	1μF, 50WV, Electrolytic	2	
C608, 611	ECEA50V47	47μF, 50WV, Electrolytic	2	
C607	ECEA160V22	22μF, 160WV, Electrolytic	1	
C605, 606	ECEA250V10	10μF, 250WV, Electrolytic	2	
C103, 104, 111, 112	ECEB25V47L	47μF, 25WV, Electrolytic	4	
C101, 102	ECSZ25EF3R3	3.3μF, 25WV, Electrolytic	2	
C (202) ×2 521, 522, 535, 536	ECSZ25EF1	1μF, 25WV, Electrolytic	6	
C601, 602, 603, 604	RXAF103P22HD	0.01μF (X2), 500WV, $+^{100}_{0}$%, Ceramic	4	
C121, 122	ECCD1H390K	39pF 50WV, ±10% Ceramic	2	
LIGHT and FUSES				
PL	XAM37K250	Pilot Lamp (7.5V 75mA)	1	
F1	XBA2F05NU5	Fuse, Power Source. 0.5A	1	
F601	XBA2H02NS5	Fuse, Power Source. 0.2A	1	
SWITCHES				
S1, 2	SSRA65	Phono 1, 2 Impedance Switch	2	
S3	SSHA47S	Input Selector Push Switch	1	
S5	SSLA32S	Recording Mode Lever Switch	1	
S6	SSLA31S	Tape Monitor Lever Switch	1	
S7	SSRA61	Mode Switch	1	
S8	SSLA33S	Audio Muting Lever Switch	1	
S9, 10	SSRA63	Bass & Treble Control Switch	4	
S11, 12	SSHA48S	Bass & Treble Turn Over Switch	2	
S13, 14	SSRA62	Low & High Filter Switch	2	
S15	SSLA34S	Power Source Switch	1	
S16	.....	Socket, Voltage Selector	1	
RELAY				
	SSYA8	Shock Noise Silence Relay	1	
CABINET PARTS				
	SBNA119S	Knob, Bass & Treble Control	4	
	SBNA118S	Knob, Volume Control	1	
	SBCA52	Button, Turn Over Push Switch	6	
	SBCA53	Button, Selector Push Switch	5	
	SBLA4-1	Knob, Power, Rec Mode, Tape & Audio Muting Switch	4	
	SBSA9S	Knob, Filter & Mode Switch	3	
	SBSA10S	Knob, Impedance & Gain Control	3	
	SBNA120S	Knob, Balance Control	1	
→	SGWA1202	Front Panel, Complete	1	
.....	SGXA65	Bracket, Selector Push Button	1	
	SGXA68	Bracket, Turn Over Push Button	6	
	SGXA64	Handle Bracket	4	
	SKYA4	Handle, Front Panel	2	
	XNA6FFZ	Nut, Handle M'tg.	4	
	SGLA9	Panel Light, Plastic, Orange	1	
	SKPA7	Top Board	1	
	XTB3+8CK	Black Screw, Top Board M'tg.	11	
	SKUA370	Bottom Board	1	
	SHGA303	Leg	4	
	XSN4D25S	Screw, Leg M'tg.	4	
	XTV3+8CR	Red Screw, Bottom Board M'tg.	11	
	SKSA2	Side Board	2	
	XVE4B8K	Six Corner Box Bolt, Side Board M'tg.	10	
→	SYPA302AS	Rear Panel, Complete	1	
.....	SGPA461BS	Rear Panel Only	1	
	SJFA3409	Terminal, Tape Monitor 1, 2 & Output	3	
	SJFA3005	Terminal, Input	1	
	SJSA66-1	AC Outlet	6	
	SNEA204-2S	Bolt, Ground Terminal	1	
	SNEA404	Nut, Ground Terminal	1	
	SHGA302	Rubber Cushion, Set Rear	2	
	SJAA6	AC Cord	1	
	SHRA107	Bushing, AC Cord	1	
	SJSA65	Socket, Circuit Board Connecting	6	
	SJFA1	Fuse Holder	1	
	SJPA11	Short Pin, Phono 2 Teminal	2	
	SJEA4	Socket, Voltage Selector	1	
	SGTA2010	Name Plate	1	○
ACCESSORIES				
	SJP2129-P	Connector Cord	1	
	SHEA5	SiX Corner Screw Driver	1	
	RJP5	Pin Plug	8	
	RJP74	Ac Plug	1	
	RJP75	Ac Plug	1	
PACKINGS				
	SPPA27	Soft Cover	1	
	SPEA3	AC Plug Cover	1	
	SPHA6008	Polyethylene Sheet	1	
	SPSA135	Pad	1	
	SPSA94	Pad	1	
	SPGA571A	Carton Box	1	
	SQFA236	Printed Matter, Complete	1	○

Schematic Diagram ..... Model SU-9600 (This schematic diagram may be modified at any time with the development of ne

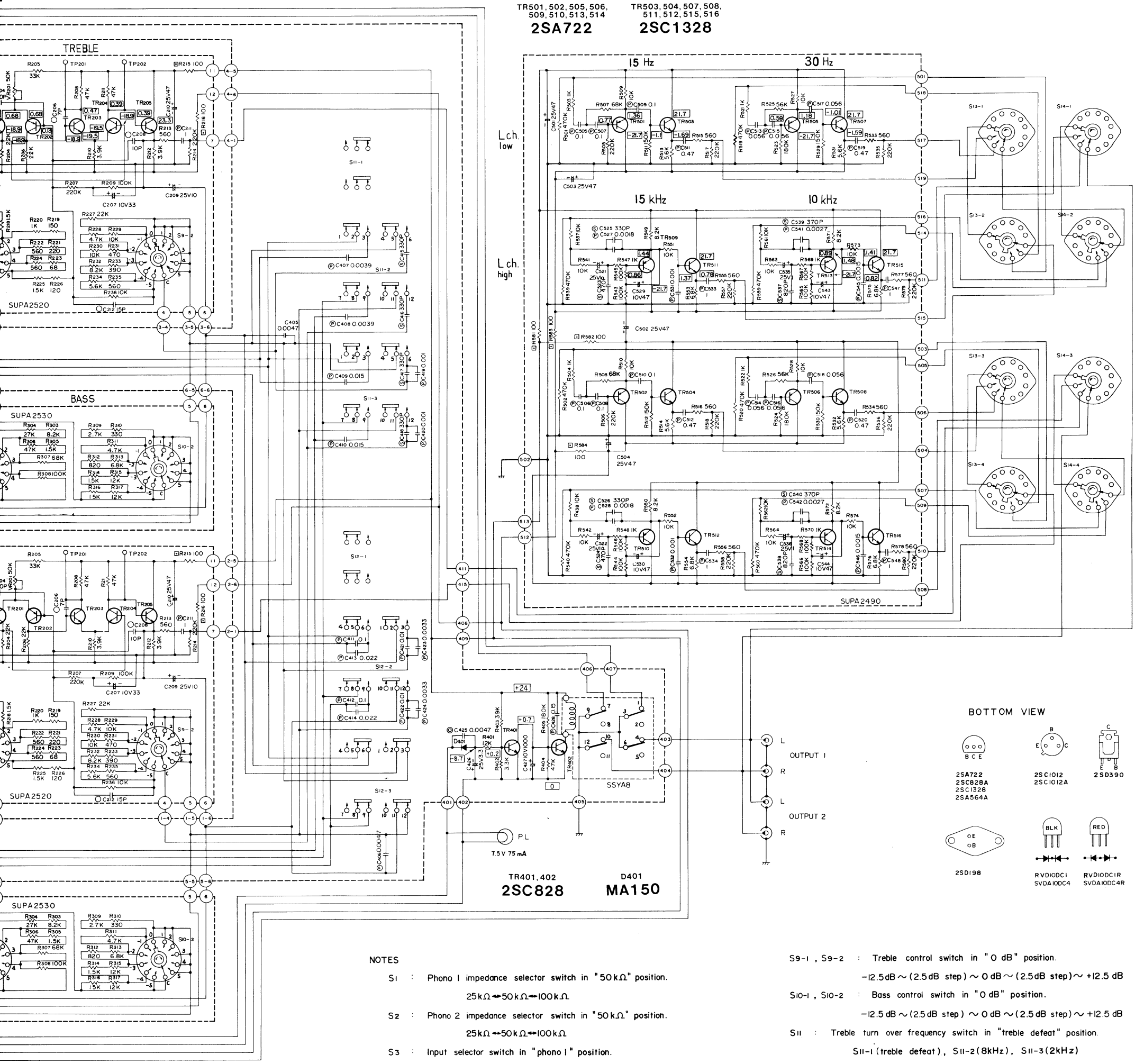


he development of new technology.)

TR203~205
2SC1328

TR501, 502, 505, 506, 509, 510, 513, 514
2SA722

TR503, 504, 507, 508, 511, 512, 515, 516
2SC1328



TR401, 402
2SC828

D401
MA150

BOTTOM VIEW

NOTES

S1 : Phono 1 impedance selector switch in "50kΩ" position.
25kΩ ↔ 50kΩ ↔ 100kΩ

S2 : Phono 2 impedance selector switch in "50kΩ" position.
25kΩ ↔ 50kΩ ↔ 100kΩ

S3 : Input selector switch in "phono 1" position.
S3-1 (phono 1 or phono 2), S3-2 (phono), S3-3 (tuner), S3-4 (aux 1), S3-5 (aux 2)

S5-1 ~ S5-4 : Recording mode swich in "source" position.
tape 1 ▶ tape 2 ↔ source ↔ tape 2 ▶ tape 1

S6-1, S6-2 : Tape monitor switch in "source" position.
tape 1 ↔ source ↔ tape 2

S7-1, S7-3 : Mode switch in "stereo" position.
reverse ↔ stereo ↔ L+R ↔ L-R

S8-1, S8-2 : Audio muting switch in "0 dB" position.

S9-1, S9-2 : Treble control switch in "0 dB" position.
-12.5dB ~ (2.5dB step) ~ 0 dB ~ (2.5dB step) ~ +12.5 dB

S10-1, S10-2 : Bass control switch in "0 dB" position.
-12.5 dB ~ (2.5 dB step) ~ 0 dB ~ (2.5 dB step) ~ +12.5 dB

S11 : Treble turn over frequency switch in "treble defeat" position.
S11-1 (treble defeat), S11-2 (8kHz), S11-3 (2kHz)

S12 : Bass turn over frequency switch in "bass defeat" position.
S12-1 (500Hz), S12-2 (125Hz), S12-3 (bass defeat)

S13-1 ~ S13-4 : Low filter switch in "off" position.
off ↔ 15Hz ↔ 30Hz

S14-1 ~ S14-4 : High filter switch in "off" position.
off ↔ 15kHz ↔ 10kHz

S15 : Power source switch in "off" position.

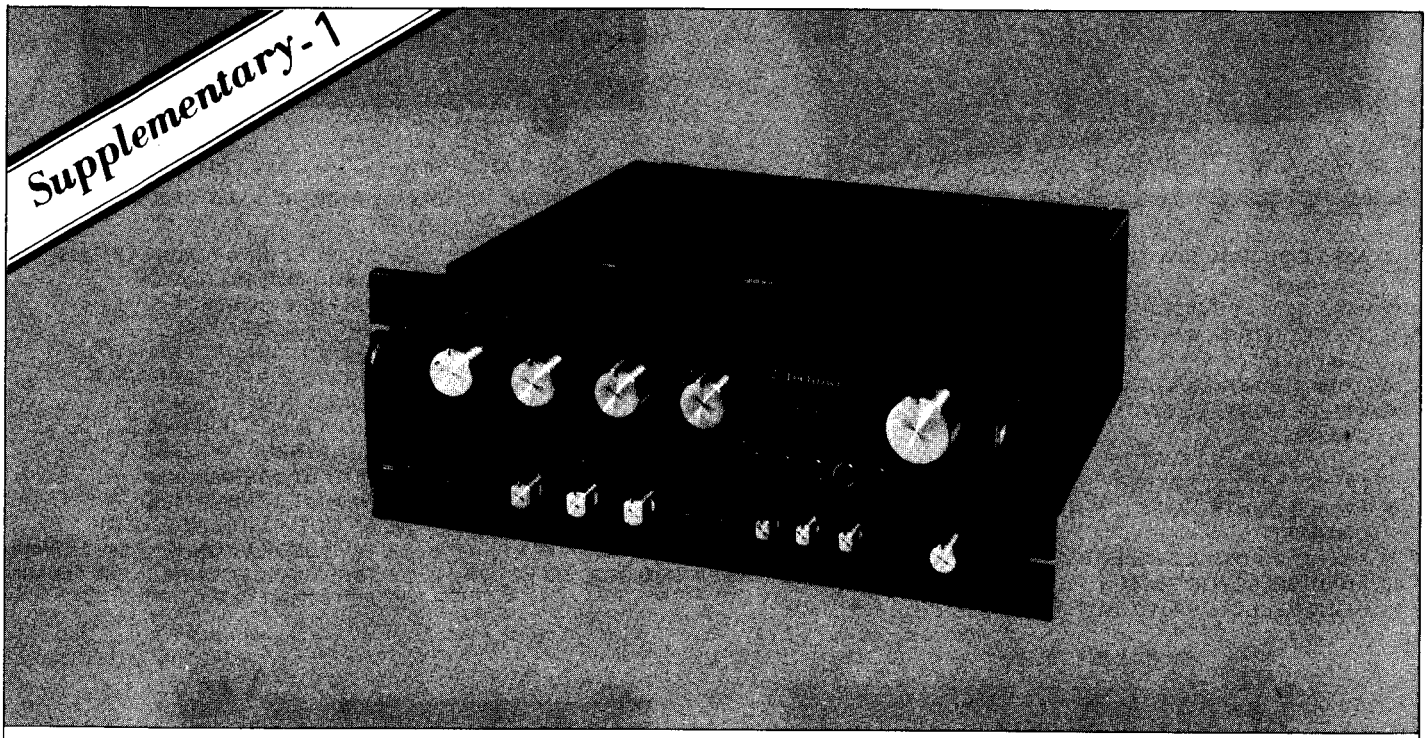
S_{16} : Voltage Selector Socket

DC voltage measurements are taken with DC VTVM from chassis ground.

ORDER NO. SD7508-085-1

Service Manual

Technics
HI-FI COMPONENTS
Technics



Stereo Control Center MODEL SU-9600

TECHNICAL SPECIFICATIONS (For accommodating future improvements, specifications are subject to change without notice.)

AMPLIFIER SECTIONS (IHF)

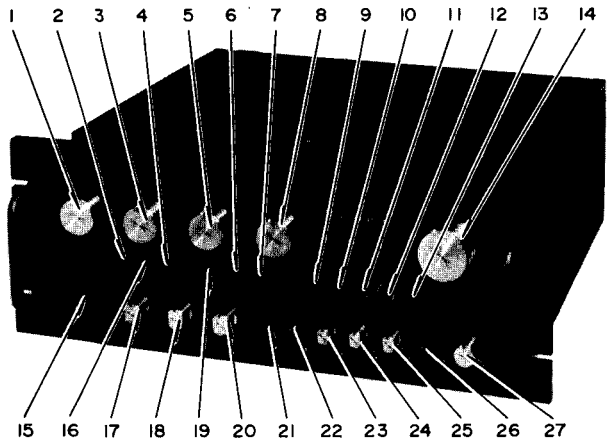
Input sensitivity and impedance		
PHONO 1		2 mV/25k, 50k, 100kΩ
PHONO 2		1 mV~3 mV/25k, 50k, 100kΩ
TUNER, AUX 1, AUX 2		100mV/50kΩ
TAPE DECK 1, 2 PLAYBACK		100mV/50kΩ
PHONO maximum input voltage		
PHONO 1		900mV
PHONO 2		450mV~1350mV
Total harmonic distortion		0.08%
Intermodulation distortion		0.08%
Signal-to-noise ratio		
PHONO 1		73 dB
PHONO 2		69 dB~76 dB
TUNER, AUX 1, 2		95 dB
Frequency response		
PHONO		RIAA standard curve ±0.3 dB
TUNER, AUX 1, 2		2 Hz~100 kHz, +0 dB, −3 dB
Tone controls		
BASS		50 Hz, +12.5 dB −12.5 dB (11 steps)
TREBLE		20 kHz, +12.5 dB −12.5 dB (11 steps)
Turnover frequencies		
BASS		125 Hz, 500 Hz
TREBLE		2 kHz, 8 kHz
Filters		
Low		15 Hz, 30 Hz −18 dB/oct.
High		10 kHz, 15 kHz −18 dB/oct.
Muting		−20 dB
Output voltage and impedance		
OUTPUT 1, 2	**Rated**	1V/600Ω
	Max.	11V/600Ω
TAPE DECK 1, 2	**REC OUT**	100mV/600Ω

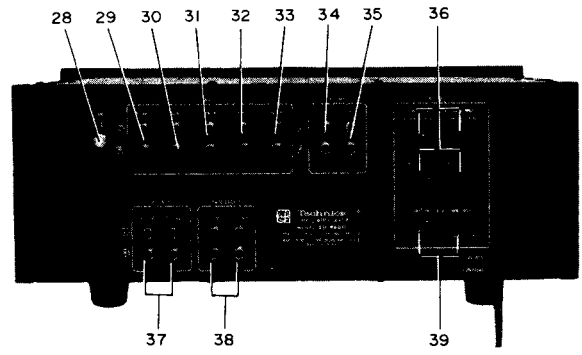
GENERAL

Power supply	AC 110/120/220/240V 50/60Hz
Power consumption	17W
Dimensions (W × H × D)	17 33/64" × 6 13/16" × 14 3/4"
	450 × 173 × 375 mm
Weight	23.2 lb. 10.5 kg

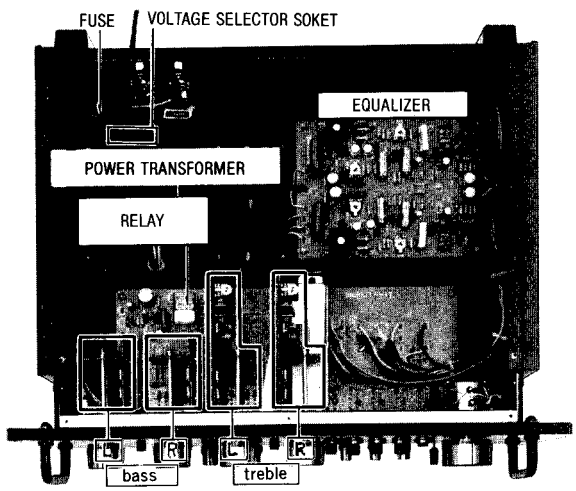
Matsushita Electric
Matsushita Electric Trading Co., Ltd.
P. O. Box 288, Central Osaka, Japan

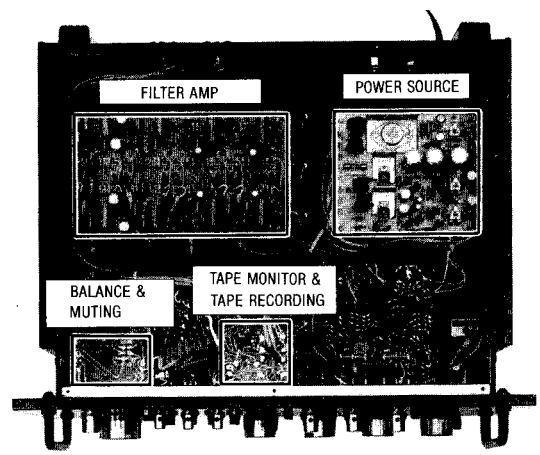
■ LOCATION OF CONTROLS





1. BASS CONTROL SWITCH OF LEFT CHANNEL
2. BASS DEFEAT SWITCH
3. BASS CONTROL SWITCH OF RIGHT CHANNEL
4. 500Hz TURNOVER SWITCH
5. TREBLE CONTROL SWITCH OF LEFT CHANNEL
6. 8kHz TURNOVER SWITCH
7. TREBLE DEFEAT SWITCH
8. TREBLE CONTROL SWITCH OF RIGHT CHANNEL
9. PHONO INPUT 1 & 2 SELECTOR SWITCH
10. INPUT SELECTOR SWITCH. PHONO
11. INPUT SELECTOR SWITCH. TUNER
12. INPUT SELECTOR SWITCH. AUX 1
13. INPUT SELECTOR SWITCH. AUX 2
14. VOLUME CONTROL
15. POWER SOURCE SWITCH
16. 125Hz TURNOVER SWITCH
17. LOW FILTER SWITCH
18. HIGH FILTER SWITCH
19. 2kHz TURNOVER SWITCH
20. MODE SWITCH
21. REC MODE (TAPE DOUBBING) SWITCH
22. TAPE MONITOR SWITCH
23. PHONO 1 INPUT IMPEDANCE SELECTOR SWITCH
24. PHONO 2 INPUT IMPEDANCE SELECTOR SWITCH
25. PHONO 2 INPUT GAIN CONTROL
26. AUDIO MUTING SWITCH
27. BALANCE CONTROL
28. GROUND TERMINAL
29. PHONO 1 INPUT TERMINALS
30. PHONO 2 INPUT TERMINALS
31. TUNER INPUT TERMINALS
32. AUX 1 INPUT TERMINALS
33. AUX 2 INPUT TERMINALS
34. OUTPUT 1 TERMINALS
35. OUTPUT 2 TERMINALS
36. AC OUTLET (UNSWITCHED)
37. TAPE DECK 1 CONNECTION TERMINALS
38. TAPE DECK 2 CONNECTION TERMINALS
39. AC OUTLET (SWITCHED)





■ ALIGNMENT POINTS

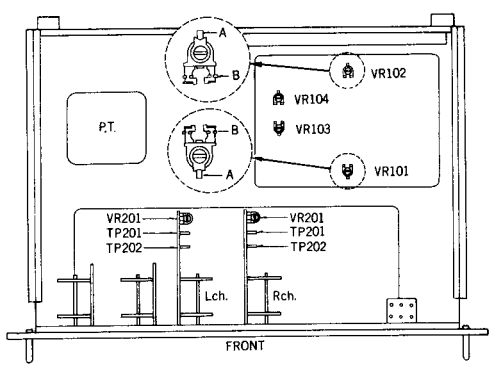


Fig. 1 (Set Top View)

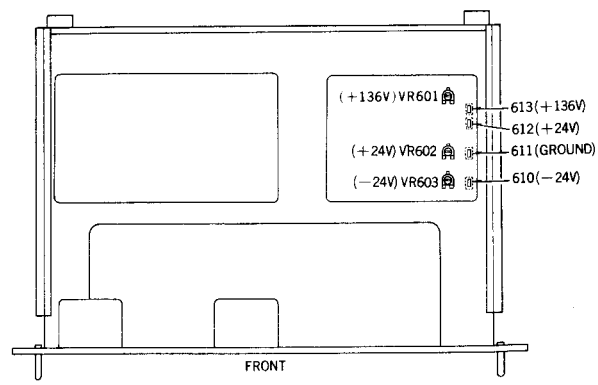
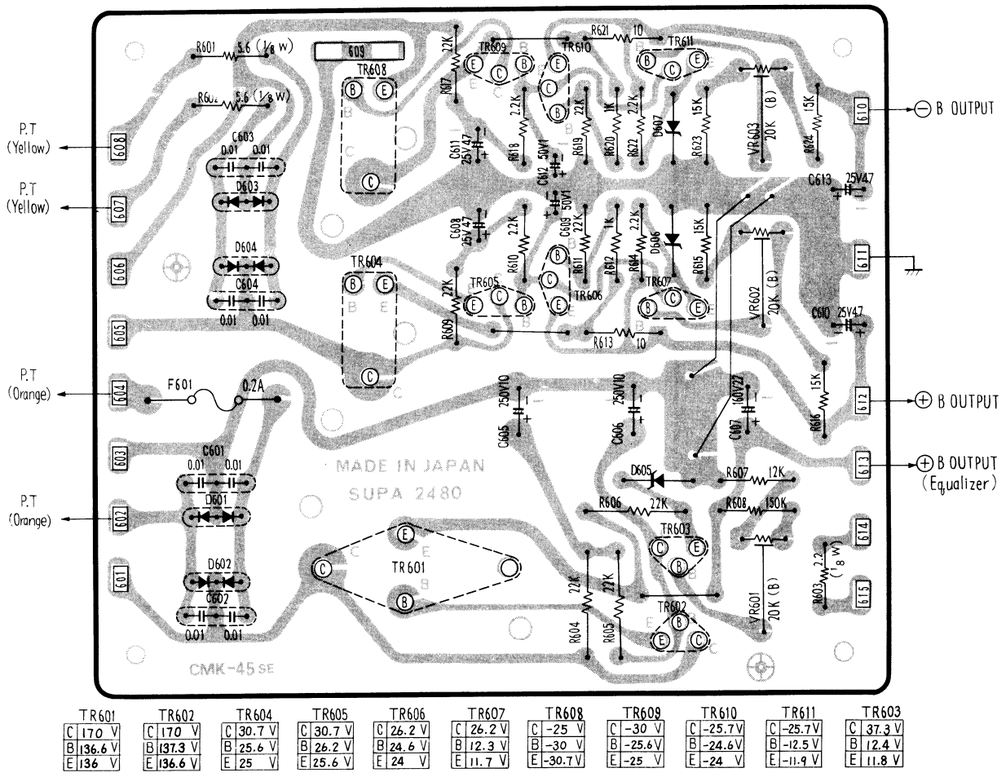


Fig. 2 (Set Bottom View)

POWER SOURCE CIRCUIT BOARD



TR601	TR602	TR604	TR605	TR606	TR607	TR608	TR609	TR610	TR611	TR603
C 170 V	C 170 V	C 30.7 V	C 30.7 V	C 26.2 V	C 26.2 V	C -25 V	C -30 V	C -25.7V	C -25.7V	C 37.3 V
B 136.6 V	B 137.3 V	B 25.6 V	B 26.2 V	B 24.6 V	B 12.3 V	B -30 V	B -25.6V	B -24.6V	B -12.5 V	B 12.4 V
E 136 V	E 136.6 V	E 25 V	E 25.6 V	E 24 V	E 11.7 V	E -30.7V	E -25 V	E -24 V	E -11.9 V	E 11.8 V

■ ALIGNMENT INSTRUCTIONS

Notes:

1. Volume control to "minimum" position.
2. Recording mode switch and tape monitor switch to "source" position.

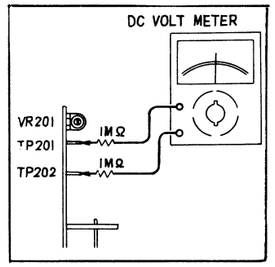
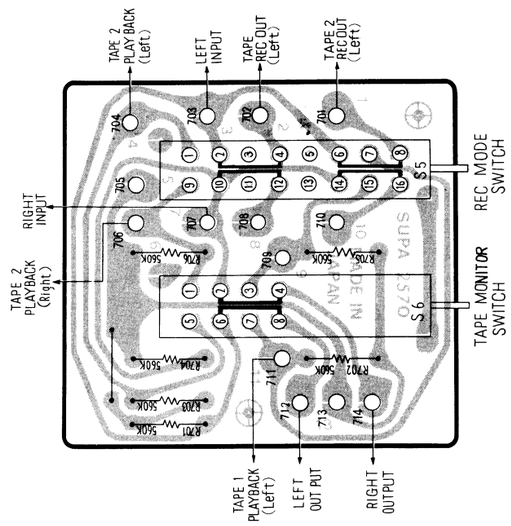


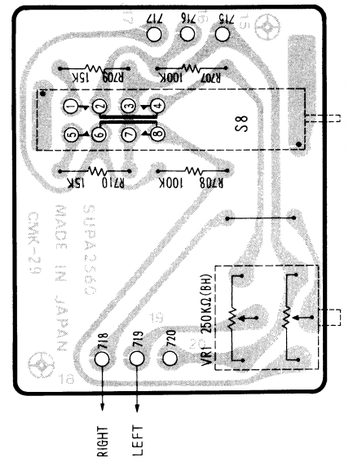
Fig. 3

ALIGNMENT	DC VOLTMETER CONNECTION	ALIGNMENT POINTS	REMARKS
EQUALIZER	Connect circuit tester to point **A** and point **B** of VR101 and VR102. Refer to fig. 1.	VR101 (L ch.) VR102 (R ch.)	① Power switch to "off" position. ② Make adjustments so that the indication on circuit tester (Resistor) becomes 30 kΩ.
NEGATIVE POWER VOLTAGE	Connect DC VTVM to No. **611** and No. **610** terminal. Refer to fig. 2.	VR603	Make sure that DC VTVM becomes negative (−) 24 volts.
POSITIVE POWER VOLTAGE	Connect DC VTVM to No. **611** and No. **612** terminal. Refer to fig. 2.	VR602	Make sure that DC VTVM becomes positive (+) 24 volts.
POSITIVE POWER	Connect DC VTVM to No. **611** and No. **613** terminal. Refer to fig. 2.	VR601	Make sure that DC VTVM becomes positive (+) 136 volts.
TONE CONTROL	Connect DC VTVM to **TP201** and **TP202** through 1 MΩ resistor. Refer to fig. 3.	VR201 (L ch. or R ch.)	Make sure that VTVM becomes 0 volt.
BIAS OF EQUALIZER	① Connect DC VTVM and audio oscillator to PHONO 1 resistor, of set. ② Inpouring 1 kHz signal and 1V signal level.	VR103 (L ch.) VR104 (R ch.)	① Connect distortion meter to REC OUT terminal of set rear panel. ② Adjust for minimum distortion.

TAPE MONITOR & TAPE REC MODE SWITCH CIRCUIT BOARD

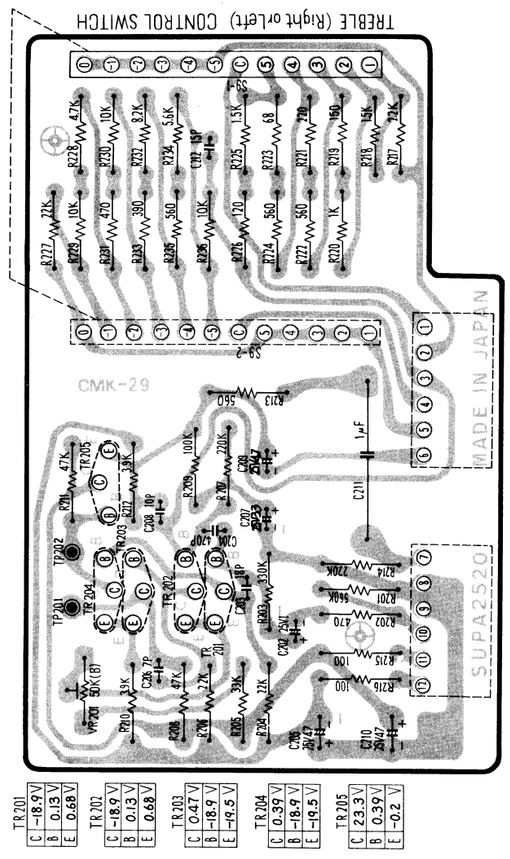


BALANCE & MUTING CIRCUIT BOARD



TREBLE CONTROL & TONE AMP. CIRCUIT BOARD

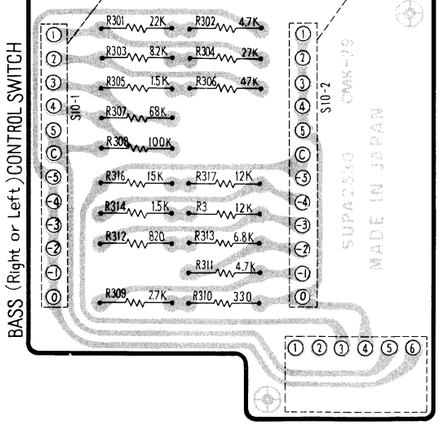
Left channel is same as Right channel.



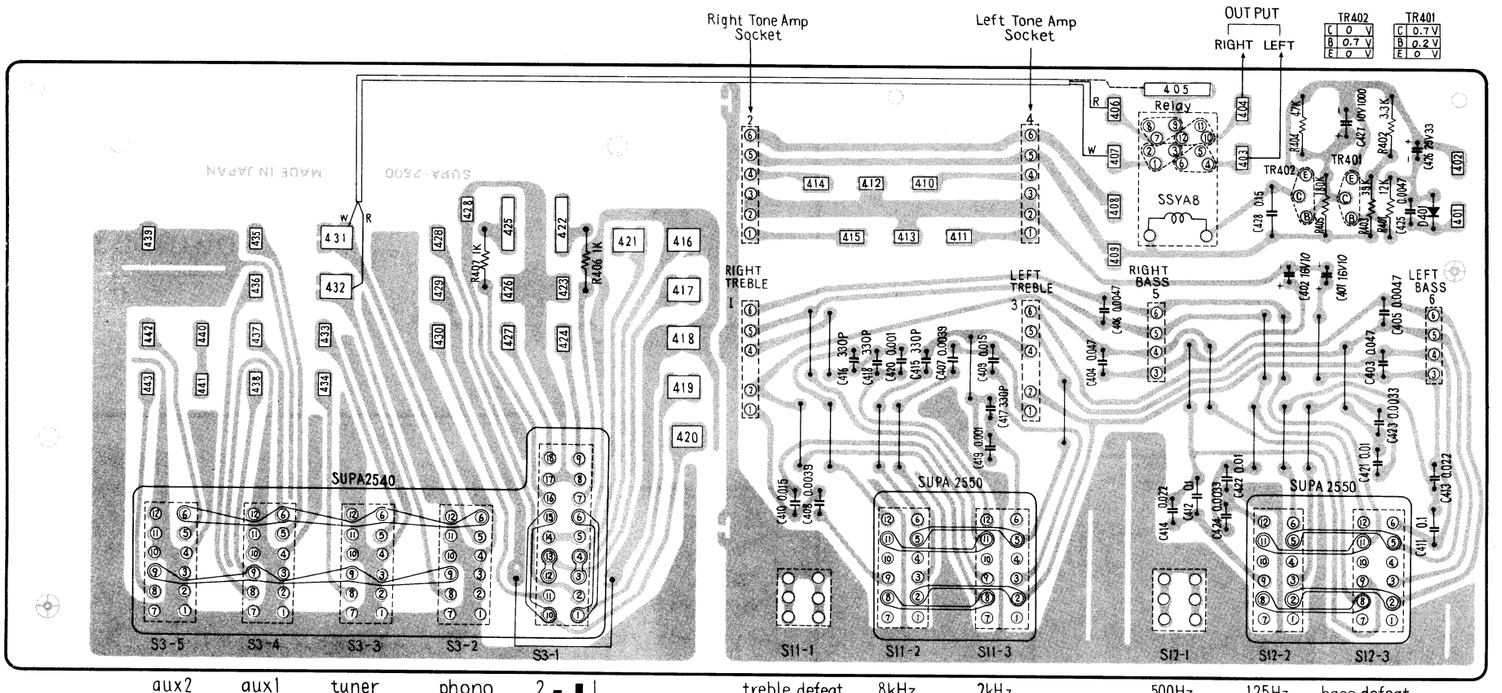
TR201	TR202	TR203	TR204	TR205
C -18.9 V	C -18.9 V	C 0.47 V	C 0.39 V	C 23.3 V
B 0.13 V	B 0.13 V	B -18.9 V	B -18.9 V	B 0.39 V
E 0.68 V	E 0.68 V	E -19.5 V	E -19.5 V	E -0.2 V

BASS CONTROL CIRCUIT BOARD

Left channel is same as Right channel.

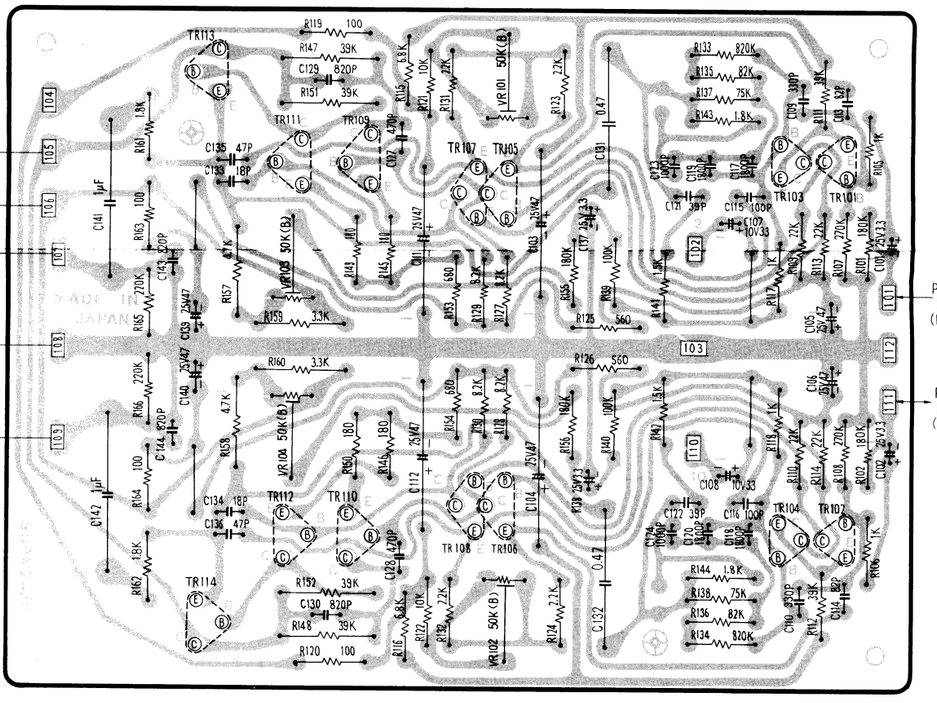


RELAY, TURNOVER FREQUENCY SWITCH & INPUT SELECTOR SWITCH CIRCUIT BOARD

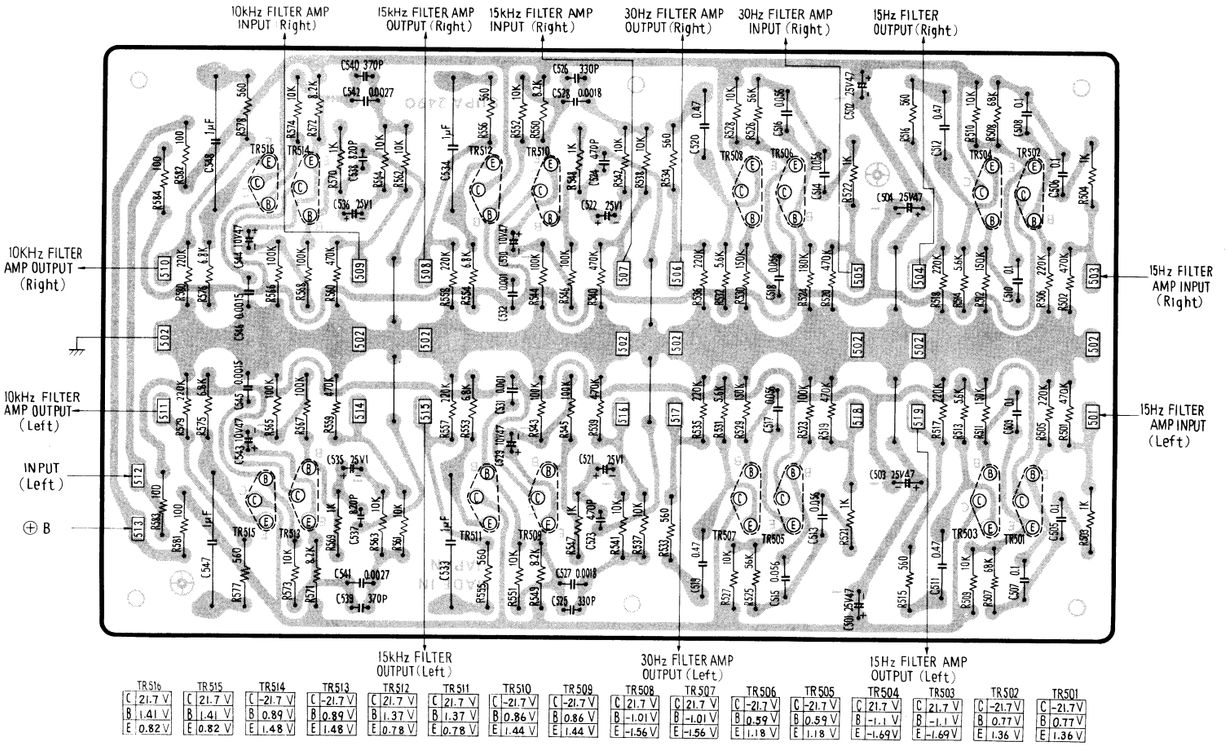


EQUALIZER CIRCUIT BOARD

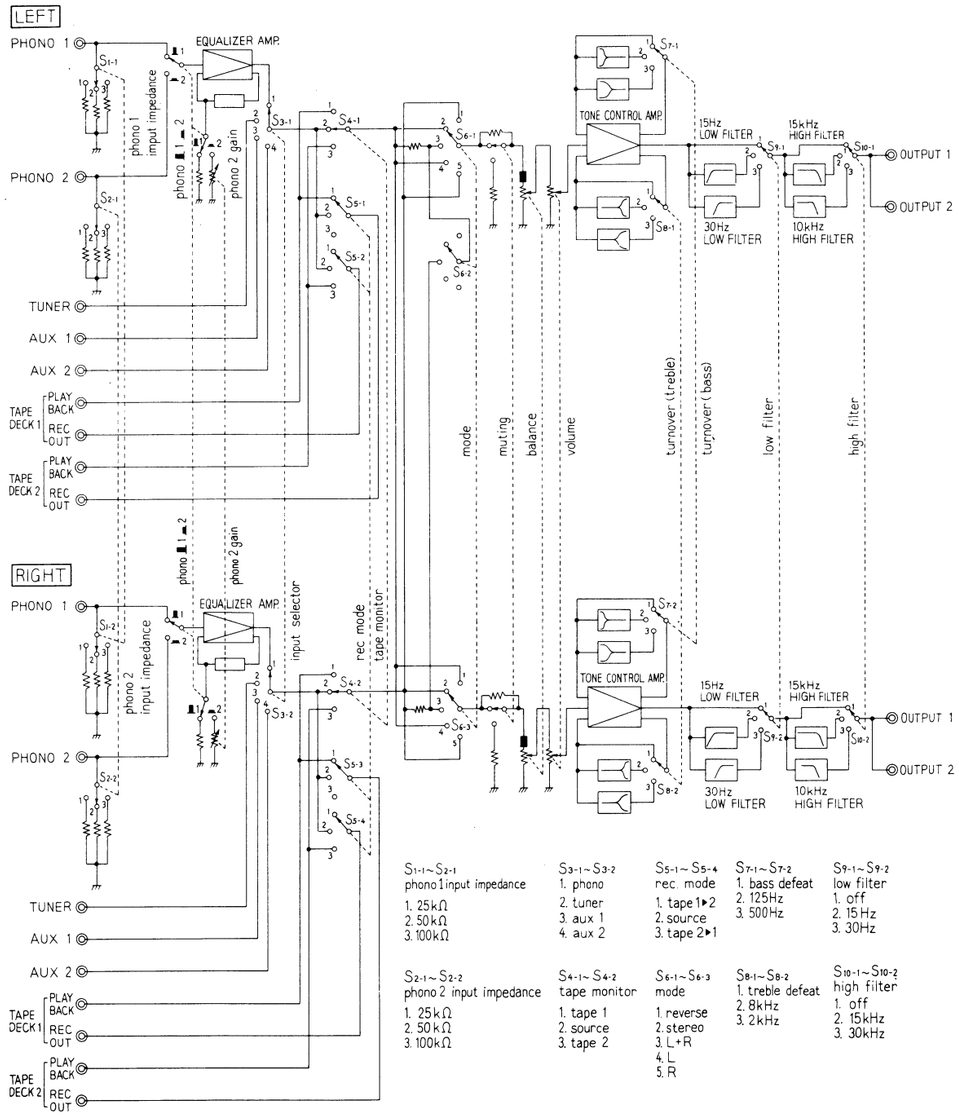
TR103 C -17.6 V B 0.15 V E 0.72 V
TR101 C -17.6 V B 0.15 V E 0.72 V
TR104 C -17.6 V B 0.15 V E 0.72 V
TR102 C -17.6 V B 0.15 V E 0.72 V
TR105 C -19.8 V B -17.6 V E -17 V
TR106 C -19.8 V B -17.6 V E -17 V
TR107 C -19.8 V B -17.6 V E -17 V
TR108 C -19.8 V B -17.6 V E -17 V
TR109 C 58 V B -19.8 V E -20.4 V
TR110 C 58 V B -19.8 V E -20.4 V
TR111 C 59 V B -19.8 V E -20.4 V
TR112 C 59 V B -19.8 V E -20.4 V
TR113 C 136 V B 59 V E 58.4 V
TR114 C 136 V B 59 V E 58.4 V



FILTER AMP. CIRCUIT BOARD



■ BLOCK DIAGRAM



■ TO REMOVE FRONT PANEL

1. Remove four (4) knobs of lever switches.
2. Remove control knobs by accessory screw driver.
3. Remove three (3) six corner screws, nos. ① ~ ③ or remove two (2) nuts, nos ④ and ⑤, as illustrated in fig. 4. (Left and Right sides)
4. Remove front panel from chassis.

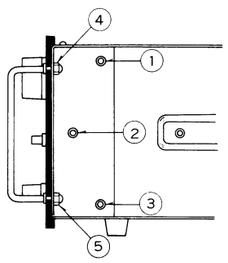


Fig. 4

■ REPLACEMENT PARTS LIST

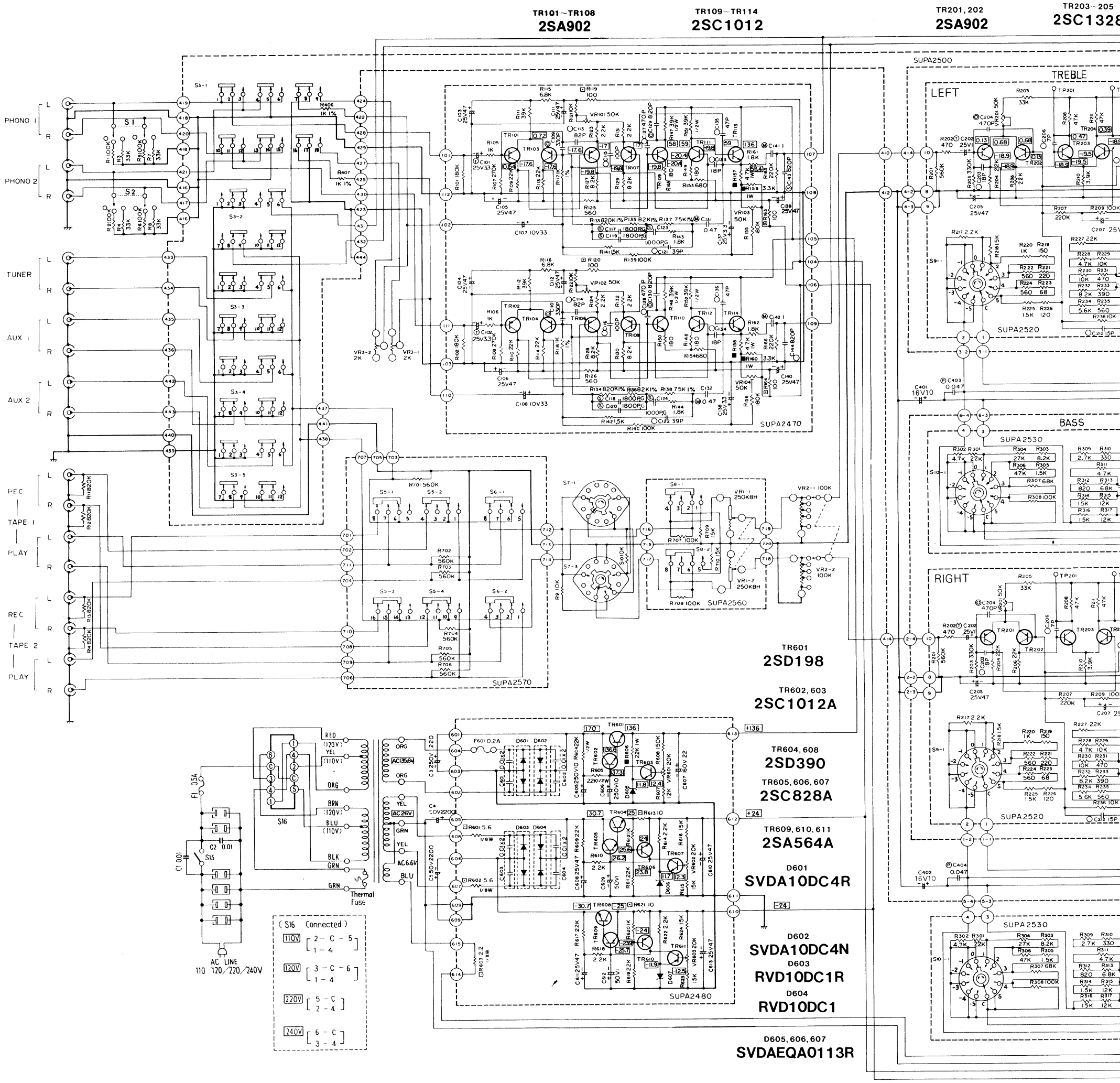
NOTES:

1. Part numbers are indicated on most mechanical parts. Please use this part number, for parts orders.

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
TRANSISTORS				
TR101, 102, 103, 104, 105, 106, 107, 108, (201, 202) ×2 501, 502, 505, 506, 509, 510, 513, 514	2SA902F	Equalizer, Tone & Filter Amplifier	20	○
TR109, 110, 111, 112, 113, 144,	2SC1012	Equalizer Amplifier	6	
TR(203, 204, 205) ×2 503, 504, 507, 508, 511, 512, 515, 516	2SC1328T	Tane & Filter Amplifier	14	
TR601	2SD198	DC Voltage Control	1	○
TR602, 603	2SC1012A	An Error Voltage Det. & DC Amp.	2	○
TR604, 608	2SD390P	DC Voltage Control	2	
TR401, 402, 605, 606, 607	2SC828A-R	Relay Driver & An Error Voltage Detector	5	
TR609, 610, 611	2SA564A-R	DC Amp & An Error Voltage Det.	3	
DIODES				
D401	MA150	Rectifier	1	
D601	SVDA10DC4-R	Rectifier	1	
D602	SVDA10DC4-N	Rectifier	1	
D603	RVD10DC1-R	Rectifier	1	
D604	RVD10DC1	Rectifier	1	
D605, 606, 607	SVDAEQA0113R	13V Zener, Voltage Stabilizer	3	○
TRANSFORMER				
T1	SLTA5N15S	Power Transformer	1	○
RESISTORS				
R(223) ×2	ERD14TJ680	68Ω, ¼W, ±5%, Carbon	2	
R(226) ×2	ERD14TJ121	120Ω, ¼W, ±5%, Carbon	2	
R(219) ×2	ERD14TJ151	150Ω, ¼W, ±5%, Carbon	2	
R149, 150	ERD14TJ181	180Ω, ¼W, ±5%, Carbon	2	
R(221) ×2	ERD14TJ221	220Ω, ¼W, ±5%, Carbon	2	
R(310) ×2	ERD14TJ331	330Ω, ¼W, ±5%, Carbon	2	
R(233) ×2	ERD14TJ391	390Ω, ¼W, ±5%, Carbon	2	
R(202, 231) ×2	ERD14TJ471	470Ω, ¼W, ±5%, Carbon	4	
R125, 126, (213, 222, 224, 235) ×2, 515, 516, 533, 534, 555, 556, 577, 578	ERD14TJ561	560Ω, ¼W, ±5%, Carbon	18	
R(312) ×2	ERD14TJ821	820Ω, ¼W, ±5%, Carbon	2	
R(220) ×2, 503, 504, 521, 522, 547, 548, 569, 570, 612, 620	ERD14TJ102	1kΩ, ¼W, ±5%, Carbon	12	
R141, 142, (218, 225, 305, 314) ×2	ERD14TJ152	1.5kΩ, ¼W, ±5%, Carbon	10	
R143, 144, 161, 162	ERD14TJ182	1.8kΩ, ¼W, ±5%, Carbon	4	
R123, 124, 131, 132 (217) ×2, 610, 614, 618, 622	ERD14TJ222	2.2kΩ, ¼W, ±5%, Carbon	10	
R(309) ×2	ERD14TJ272	2.7kΩ, ¼W, ±5%, Carbon	2	
R402	ERD14TJ332	3.3kΩ, ¼W, ±5%, Carbon	1	
R(210, 212) ×2	ERD14TJ392	3.9kΩ, ¼W, ±5%, Carbon	4	
R(228, 302, 311) ×2	ERD14TJ472	4.7kΩ, ¼W, ±5%, Carbon	6	
R(239) ×2 513, 514, 531, 532	ERD14TJ562	5.6kΩ, ¼W, ±5%, Carbon	6	
R115, 116, (313) ×2, 553, 554, 575, 576	ERD14TJ682	6.8kΩ, ¼W, ±5%, Carbon	8	
R127, 128, 129, 130, (232, 303) ×2, 549, 550 571, 572	ERD14TJ822	8.2kΩ, ¼W, ±5%, Carbon	12	
R9, 10, 121, 122, (229, 230, 236) ×2, 509, 510, 527, 528, 537, 538, 541, 542, 551, 552, 561, 562, 563, 564, 573, 574	ERD14TJ103	10kΩ, ¼W, ±5%, Carbon	26	
R(315, 317) ×2 401, 607	ERD14TJ123	12kΩ, ¼W, ±5%, Carbon	6	
R(316) ×2, 615, 616, 623, 624, 709, 710	ERD14TJ153	15kΩ, ¼W, ±5%, Carbon	8	
R109, 110, 113, 114, (204, 206, 227, 301) ×2 609, 611, 617, 619	ERD14TJ223	22kΩ, ¼W, ±5%, Carbon	16	
R(304) ×2	ERD14TJ273	27kΩ, ¼W, ±5%, Carbon	2	
R3, 4, 7, 8, (205) ×2	ERD14TJ333	33kΩ, ¼W, ±5%, Carbon	6	
R111, 112, 403,	ERD14TJ393	39kΩ, ¼W, ±5%, Carbon	3	
R(208, 211, 306) ×2, 404	ERD14TJ473	47kΩ, ¼W, ±5%, Carbon	7	
R525, 526	ERD14TJ563	56kΩ, ¼W, ±5% Carbon	2	
R(307) ×2 507, 508	ERD14TJ683	68kΩ, ¼W, ±5%, Carbon	4	
R1, 2, 5, 6, (308) ×2, 707 708	ERD14TJ104	100kΩ, ¼W, ±5%, Carbon	8	
R139, 140, (209) ×2, 543, 544, 545, 546, 565, 566, 567, 568	ERD14TSJ104	100kΩ, ¼W, ±5%, Carbon	12	
R511, 512, 529, 530	ERD14TSJ154	150kΩ, ¼W, ±5%, Carbon	4	
R608	ERD14TJ154	150kΩ, ¼W, ±5%, Carbon	1	
R405	ERD14TJ184	180kΩ, ¼W, ±5%, Carbon	1	
R101, 102, 155, 156, 523, 524	ERD14TSJ184	180kΩ, ¼W, ±5%, Carbon	6	
R(207) ×2 505, 506,	ERD14TSJ224	220kΩ, ¼W, ±5%, Carbon ¼W ±5%, Carbon	4	
R165, 166, (214) ×2, 517, 518, 535, 536, 557, 558, 579, 580	ERD14TJ224	220kΩ, ¼W, ±5%, Carbon	12	
R107, 108	ERD14TSJ274	270kΩ, ¼W, ±5%, Carbon	2	
R(203) ×2	ERD14TSJ334	330kΩ, ¼W, ±5%, Carbon	2	
R501, 502, 519, 520, 539, 540, 559, 560	ERD14TSJ474	470kΩ, ¼W, ±5%, Carbon	8	
R(201) ×2, 701, 702, 703, 704, 705, 706	ERD14TSJ564	560kΩ, ¼W, ±5%, Carbon	8	
R11, 12, 13, 14	ERD14TSJ824	820kΩ, ¼W, ±5%, Carbon	4	
R117, 118, 406, 407	ERD14TF1001	1kΩ, ¼W, ±1%, Carbon	4	○
R137, 138	ERD14TF7502	75kΩ, ¼W, ±1%, Carbon	2	○
R135, 136	ERD14TF8202	82kΩ, ¼W, ±1%, Carbon	2	○
R133, 134	ERD14CKF8203	820kΩ, ¼W, ±1%, Metallic	2	○
R613, 621	ERD14FJ100	10Ω, ¼W, ±5%, Carbon	2	
R119, 120, 163, 164, (215, 216) ×2, 581, 582, 583, 584	ERD14FJ101	100Ω, ¼W, ±5%, Carbon	12	
R145, 146	ERD14FJ181	180Ω, ¼W, ±5%, Carbon	2	
R153, 154	ERD14FJ681	680Ω, ¼W, ±5%, Carbon	2	
R105, 106	ERD14FJ102	1kΩ, ¼W, ±5%, Carbon	2	
R603	ERD18FJ2R2	2.2Ω, ⅛W, ±5%, Carbon	1	
R601, 602	ERD18FJ5R6	5.6Ω, ⅛W, ±5%, Carbon	2	○
R604, 605	ERD12TJ223	22kΩ, ½W, ±5%, Carbon	2	
R147, 148, 151, 152	ERD12TJ393	39kΩ, ½W, ±5%, Carbon	4	
R159, 160	ERG1ANJ332	3.3kΩ, 1 W, ±5%, Metallic	2	○
R157, 158	ERG1ANJ472	4.7kΩ, 1 W, ±5%, Metallic	2	○
R606	ERG1ANJ223	22kΩ, 1 W, ±5%, Metallic	1	○
VARIABLE RESISTORS				
VR601, 602, 603	EVLS3AA00B24	20kΩ(B), Voltage Stabilizer Adjustment	3	

Schematic Diagram.....Model SU-9600

(This schematic diagram may be modified at any time with the development of ne

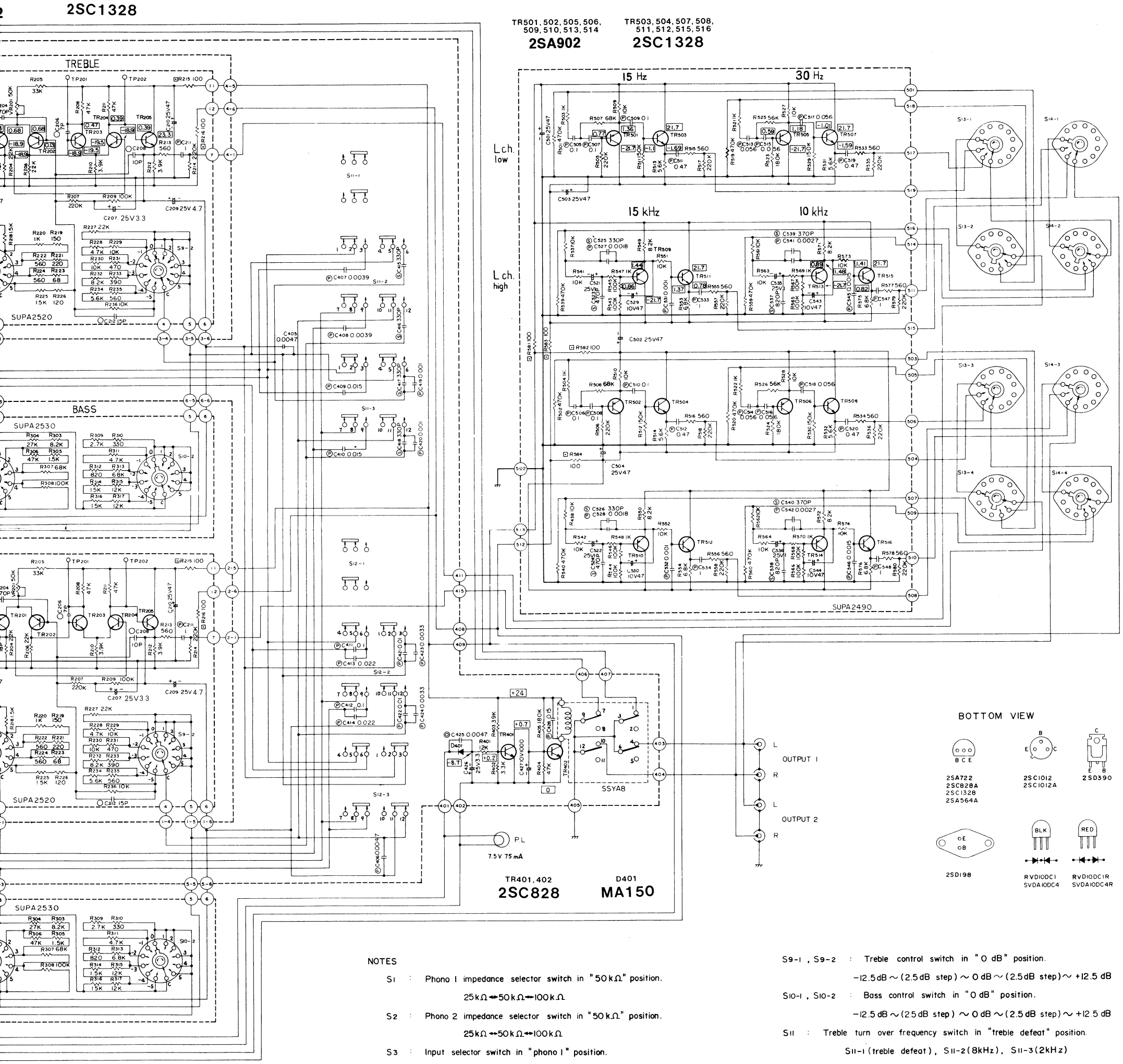


…he development of new technology)

TR203~205
2SC1328

TR501, 502, 505, 506, 509, 510, 513, 514
2SA902

TR503, 504, 507, 508, 511, 512, 515, 516
2SC1328



TR401, 402
2SC828

D401
MA150

BOTTOM VIEW

NOTES

S1 : Phono 1 impedance selector switch in "50kΩ" position.
25kΩ ⇔ 50kΩ ⇔ 100kΩ

S2 : Phono 2 impedance selector switch in "50kΩ" position.
25kΩ ⇔ 50kΩ ⇔ 100kΩ

S3 : Input selector switch in "phono 1" position.
S3-1 (phono 1 or phono 2), S3-2 (phono), S3-3 (tuner), S3-4 (aux 1), S3-5 (aux 2)

S5-1 ~ S5-4 : Recording mode swich in "source" position.
tape 1 ▶ tape 2 ⇔ source ⇔ tape 2 ▶ tape 1

S6-1 , S6-2 : Tape monitor switch in "source" position.
tape 1 ⇔ source ⇔ tape 2

S7-1 , S7-3 : Mode switch in "stereo" position.
reverse ⇔ stereo ⇔ L+R ⇔ L-R

S8-1 , S8-2 : Audio muting switch in "0 dB" position.

S9-1 , S9-2 : Treble control switch in "0 dB" position.
-12.5dB ~ (2.5dB step) ~ 0 dB ~ (2.5dB step) ~ +12.5 dB

S10-1 , S10-2 : Bass control switch in "0 dB" position.
-12.5 dB ~ (2.5 dB step) ~ 0 dB ~ (2.5 dB step) ~ +12.5 dB

S11 : Treble turn over frequency switch in "treble defeat" position.
S11-1 (treble defeat), S11-2 (8kHz), S11-3 (2kHz)

S12 : Bass turn over frequency switch in "boss defeat" position.
S12-1 (500Hz), S12-2 (125Hz), S12-3 (bass defeat)

S13-1 ~ S13-4 : Low filter switch in "off" position.
off ⇔ 15Hz ⇔ 30Hz

S14-1 ~ S14-4 : High filter switch in "off" position.
off ⇔ 15kHz ⇔ 10kHz

S15 : Power source switch in "off" position.

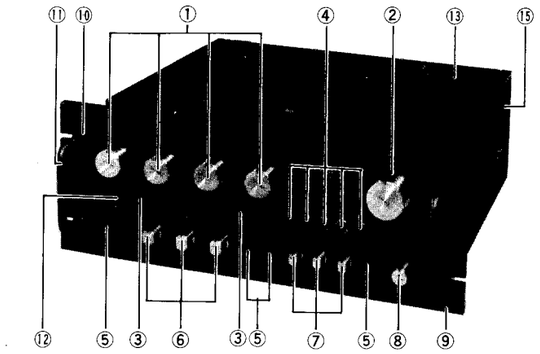
S16 : Voltage Selector Socket

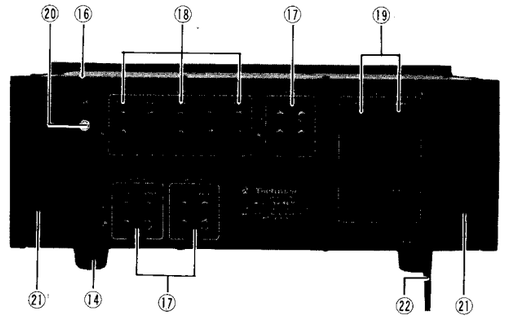
DC voltage measurements are taken with DC VTVM from chassis ground.

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
VR101, 102, 103, 104,	EVLS3AAOOB54	50kΩ (B), Equalizer Circuit Adjustment	4	
VR (201) ×2	EVLSOAAOOB54	50kΩ (B), Tone Amp. Adustment	2	
VR1-1, 1-2	EWFNTAF25252	250kΩ (BH), Balance Control	1	○
VR2-1, 2-2	SVVAAG38260R	100kΩ (A), Volume Control	1	○
VR3-1, 3-2	EVR4AA300B23	2kΩ (B), Phono Gain Control	1	○
CAPACITORS				
C (206) ×2	ECCD1H070DC	7pF, 50WV, ±0.5pF, Ceramic	2	
C (208) ×2	ECCD1H100DC	10pF, 50WV, ±0.5pF, Ceramic	2	
C (212) ×2	ECCD1H150K	15pF, 50WV, ±10%, Ceramic	2	
C (203) ×2	ECCD1H180K	18pF, 50WV, ±10%, Ceramic	2	
C113, 114	ECCD1H820JC	82pF, 50WV, ± 5%, Ceramic	2	
C115, 116	ECCD1H101JC	100pF, 50WV, ± 5%, Ceramic	2	
C133, 134	ECCD2H180K	18pF, 500WV, ±10%, Ceramic	2	
C135, 136	ECCD2H470JC	47pF, 500WV, ± 5%, Ceramic	2	
C (204) ×2	ECKD1H471KB	470pF, 50WV, ±10%, Ceramic	2	
C425	ECKE1H472MD	0.0047μF, 50WV, ±20%, Ceramic	1	
C109, 110	ECKD2H331KB	330pF, 500WV, ±10%, Ceramic	2	
C127, 128	ECKD2H471KB	470pF, 500WV, ±10%, Ceramic	2	
C129, 130	ECKD2H821KB	820pF, 500WV, ±10%, Ceramic	2	
C415, 416, 417, 418, 525, 526	ECQS1331JZ	330pF, 125WV, ± 5%, Styrol	6	
C539, 540	ECQS1371JZ	370pF, 125WV, ± 5%, Styrol	2	
C523, 524	ECQS1471JZ	470pF, 125WV, ± 5%, Styrol	2	
C143, 144, 537, 538	ECQS1821JZ	820pF, 125WV, ± 5%, Styrol	4	
C123, 124	ECQS1102GZ	1000pF, 125WV, ± 2%, Styrol	2	○
C117, 118, 119 120	ECQS1182GZ	1800pF, 125WV, ± 2%, Styrol	4	○
C419, 420, 531, 532	ECQM05102JZ	0.001μF, 50WV, ± 5%, Polyester	4	
C545, 546	ECQM05152JZ	0.0015μF, 50WV, ± 5%, Polyester	2	
C527, 528	ECQM05182JZ	0.0018μF, 50WV, ± 5%, Polyester	2	
C541, 542	ECQM05272JZ	0.0027μF, 50WV, ± 5%, Polyester	2	
C423, 424	ECQM05332JZ	0.0033μF, 50WV, ± 5%, Polyester	2	
C407, 408	ECQM05392JZ	0.0039μF, 50WV, ± 5%, Polyester	2	
C405, 406	ECQM05472JZ	0.0047μF, 50WV, ± 5%, Polyester	2	
C421, 422	ECQM05103JZ	0.01μF, 50WV, ± 5%, Polyester	2	
C409, 410	ECQM05153JZ	0.015μF, 50WV, ± 5%, Polyester	2	
C413, 414	ECQM05223JZ	0.022μF, 50WV, ± 5%, Polyester	2	
C403, 404	ECQM05473JZ	0.047μF, 50WV, ± 5%, Polyester	2	
C513, 514, 515, 516, 517, 518	ECQM05563JZ	0.056μF, 50WV, ± 5%, Polyester	6	
C411, 412, 505, 506, 507, 508, 509, 510	ECQM05104JZ	0.1μF, 50WV, ± 5%, Polyester	8	
C428	ECQM05154MZ	0.15μF, 50WV, ±20%, Polyester	1	
C511, 512, 519, 520	ECQM05474MZ	0.47μF, 50WV, ±20%, Polyester	4	
C (211) ×2 533, 534, 547 548	ECQM05105MZ	1μF, 50WV, ±20%, Polyester	6	○
C141, 142	ECQH2105MZ	1μF, 250WV, ±20%, Polyester	2	
C131, 132	ECQT2474N	0.47μF, 250WV, ±20%, Polyester	2	○
C1	ECQU2A103MD	0.01μF, 250VAC, ±20% Polyester	1	
C2	ECQU2A103MD	0.01μF, 250VAC, ±20%, Polyester	1	
C4, 5	ECEM50R222U	2200μF, 50WV, Electrolytic	2	○
C3	ECEM250V220U	220μF, 250WV, Electrolytic	1	○
C107, 108	ECEA10V33	33μF, 10WV, Electrolytic	2	
C401, 402	ECEA16V10L	10μF, 16WV, Electrolytic	2	
C529, 530, 543, 544	ECEA10V47	47μF, 10WV, Electrolytic	4	
C427	ECEA10V1000	1000μF, 10WV, Electrolytic	1	
C137, 138, 426 (207) ×2,	ECEA25V3R3L	3.3μF, 25WV, Electrolytic	5	
C (209) ×2	ECEA25V4R7L	4.7μF, 25WV, Electrolytic	2	
C105, 106, 139, 140, (205, 210) ×2, 501, 502, 503 504, 610, 613	ECEA25V47	47μF, 25WV, Electrolytic	14	
C609, 612	ECEA50V1	1μF, 50WV, Electrolytic	2	
C608, 611	ECEA50V47	47μF, 50WV, Electrolytic	2	
C607	ECEA160V22	22μF, 160WV, Electrolytic	1	○
C605, 606	ECEA250V10	10μF, 250WV, Electrolytic	2	○
C103, 104, 111, 112	ECEB25V47L	47μF, 25WV, Electrolytic	4	○
C101, 102	ECSZ25EF3R3	3.3μF, 25WV, Electrolytic	2	
C (202) ×2 521, 522, 535, 536	ECSZ25EF1	1μF, 25WV, Electrolytic	6	
C601, 602, 603, 604	RXAF103P22HD	0.01μF (X2), 500WV, $^{+100}_{-0}$%, Ceramic	4	
C121, 122	ECCD1H390K	39pF 50WV, ±10% Ceramic	2	

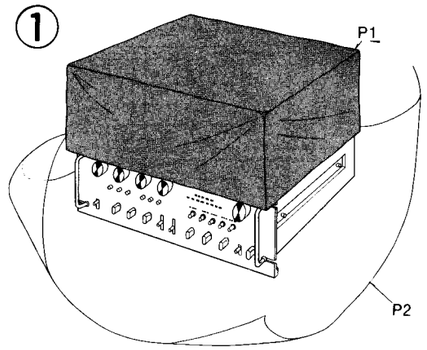
Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
LIGHT and FUSES				
PL	XAM37K250	Pilot Lamp (7.5V 75mA)	1	
F1	XBA2F05NU5	Fuse, Power Source. 0.5A	1	○
F601	XBA2H02NS5	Fuse, Power Source. 0.2A	1	○
SWITCHES				
S1, 2	SSRA65	Phono 1, 2 Impedance Switch	2	○
S3	SSHA47S	Input Selector Push Switch	1	○
S5	SSLA32S	Recording Mode Lever Switch	1	○
S6	SSLA31S	Tape Monitor Lever Switch	1	○
S7	SSRA61	Mode Switch	1	○
S8	SSLA33S	Audio Muting Lever Switch	1	○
S9, 10	SSRA63	Bass & Treble Control Switch	4	○
S11, 12	SSHA48S	Bass & Treble Turn Over Switch	2	○
S13, 14	SSRA62	Low & High Filter Switch	2	○
S15	SSLA34S	Power Source Switch	1	
S16	.....	Socket, Voltage Selector	1	
RELAY				
	SSYA8	Shock Noise Silence Relay	1	○
CABINET PARTS				
1	SBNA119S	Knob, Bass & Treble Control	4	
2	SBNA118S	Knob, Volume Control	1	○
3	SBCA52	Button, Turn Over Push Switch	6	○
4	SBCA53	Button, Selector Push Switch	5	○
5	SBLA4-1	Knob, Power, Rec Mode, Tape & Audio Muting Switch	4	○
6	SBSA9S	Knob, Filter & Mode Switch	3	○
7	SBSA10S	Knob, Impedance & Gain Control	3	○
8	SBNA120S	Knob, Balance Control	1	
9	SGWA1202	Front Panel, Complete	1	○
	SGXA65	Bracket, Selector Push Button	(1)	○
	SGXA68	Bracket, Turn Over Push Button	6	
10	SGXA64	Handle Bracket	4	○
11	SKYA4	Handle, Front Panel	2	○
	XNA6FFZ	Nut, Handle M'tg.	4	○
12	SGLA9	Panel Light, Plastic, Orange	1	
13	SKPA7	Top Board	1	○
	XTB3+8CK	Black Screw, Top Board M'tg.	11	
	SKUA370	Bottom Board	1	○
14	SHGA303-1	Leg	4	○
	XSN4D25S	Screw, Leg M'tg.	4	○
	XTV3+8CR	Red Screw, Bottom Board M'tg.	11	
15	SKSA2	Side Board	2	○
	XVE4B8K	Six Corner Box Bolt, Side Board M'tg.	10	○
16	SYPA302AS	Rear Panel, Complete	1	○
	SGPA461BS	Rear Panel Only	1	○
17	SJFA3409-1	Terminal, Tape Monitor 1, 2 & Output	3	
18	SJFA3005-1	Terminal, Input	1	
19	SJSA66-1	AC Outlet	6	
20	SNEA204-2S	Bolt, Ground Terminal	1	
	SNEA404	Nut, Ground Terminal	1	
21	SHGA302	Rubber Cushion, Set Rear	2	○
22	SJAA6	AC Cord	1	○
	SHRA107	Bushing, AC Cord	1	○
	SJSA65	Socket, Circuit Board Connecting	6	
	SJFA1	Fuse Holder	1	
	SJPA11	Short Pin, Phono 2 Teminal	2	
	SJEA4	Socket, Voltage Selector	1	○
ACCESSORIES				
A1	SJP2129-P	Connector Cord	1	
A2	SHEA5	SiX Corner Screw Driver	1	○
A3	RJP5	Pin Plug	8	
A4	RJP74-1	Ac Plug	1	
A5	RJP75	Ac Plug	1	
PACKINGS				
P1	SPPA27	Soft Cover	1	
	SPEA3	AC Plug Cover	1	
P2	SPHA6008	Polyethylene Sheet	1	
P3	SPSA135	Pad	1	○
P4	SPSA94	Pad	1	○
P5	SPGA572A	Carton Box (Outer)	1	○
P6	SQFA209	Printed Matter, Complete	1	○
P7	SPNA280B	Carton Box(Inner)	1	○
P8	SPSA30	Pad, Carton Box	1	

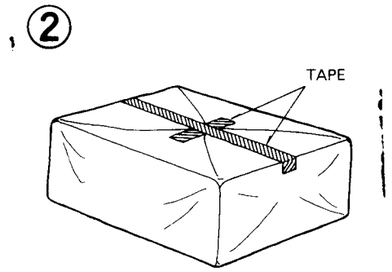
■ LOCATION OF CABINET PARTS

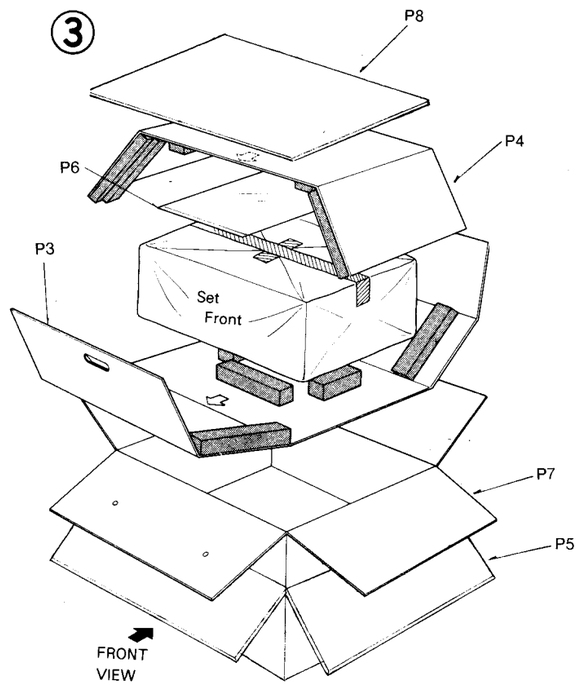




■ PACKINGS







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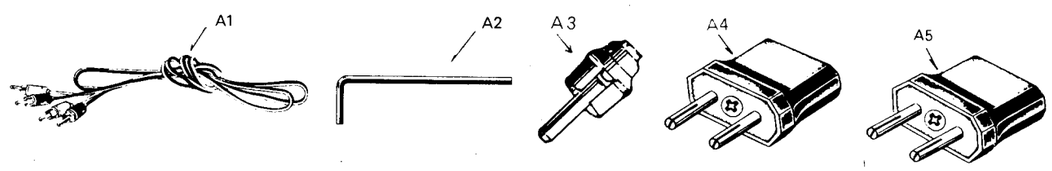

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