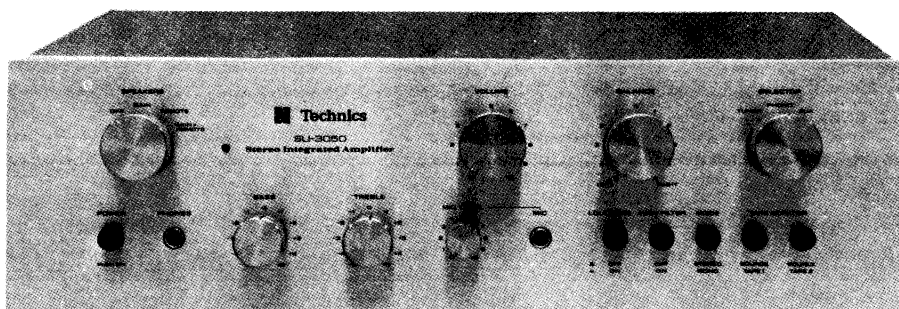


Service Manual

 **Technics**
HI-FI COMPONENTS
 **Technics**
**STEREO INTEGRATED AMPLIFIER****MODEL SU-3050****TECHNICAL SPECIFICATIONS (IHF)**

Music Power	50W (4 Ω)
	44W (8 Ω)
RMS Power (each ch. driven)	20W/20W (4 Ω)
	16W/16W (8 Ω)
Harmonic Distortion :	0.8%
Inter Modulation Distortion (60Hz : 7kHz=4 : 1, SMPTE) :	0.8%
Power Bandwidth :	5Hz~50kHz, -3dB
Residual Hum & Noise :	0.7mV
Damping Factor :	35 (8 Ω)
Rated Load (MAIN or REMOTE) :	4~16 Ω
Input Sensitivity & Impedance	PHONO 2mV/47k Ω
	TUNER 190mV/ 47k Ω
	AUX 190mV/470k Ω
	MIC 2mV/10k Ω
Maximum Input Voltage [PHONO, 1kHz] :	90mV
S/N (IHF, A) :	PHONO 74dB
	TUNER 91dB
	AUX 91dB
	MIC 77dB

Frequency Response :	PHONO (Deviation from RIAA standard)	± 1.0 dB
	AUX 7Hz~90kHz	$+0$ dB
	MIC 20Hz~20kHz	$+0$ dB
Tone Control :	BASS 50Hz+10dB ~ -10dB	
	TREBLE 10kHz+10dB ~ -10dB	
Loudness Control : (Volume at -30dB) :	100Hz	+7dB
High Filter :	8kHz	-6dB
Tape Monitor [TAPE 1 · 2] :		
	PLAYBACK	90mV 47k Ω
	REC OUT	90mV 1k Ω

GENERAL

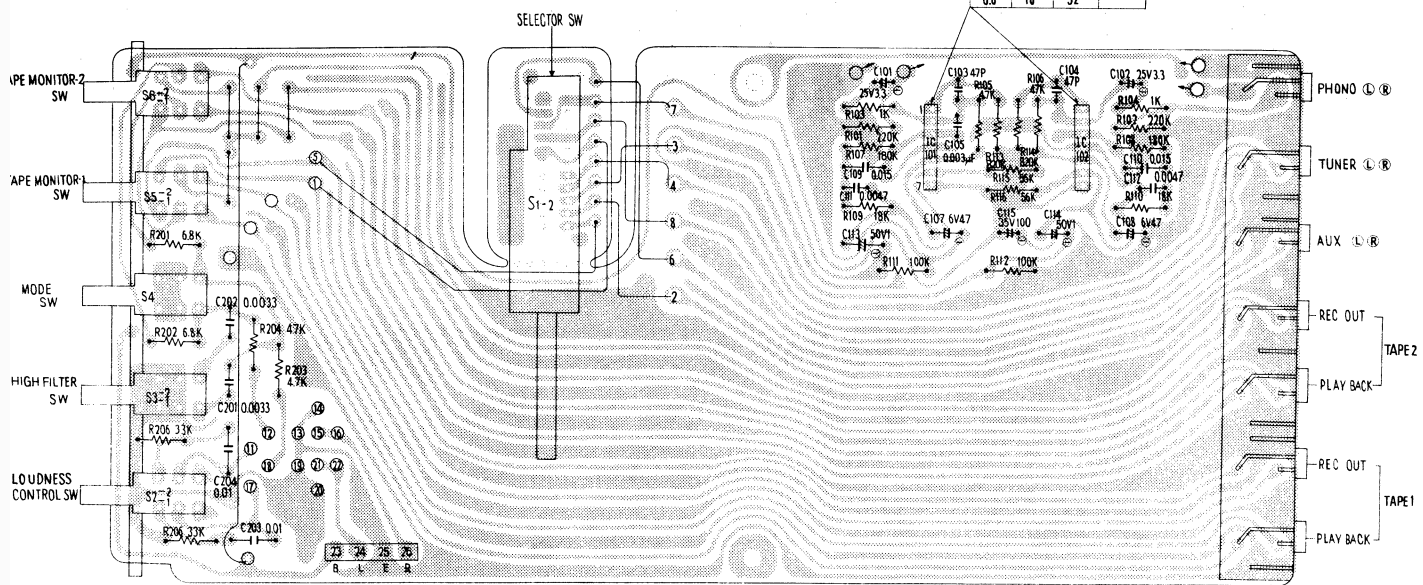
Power Consumption :	120W
Power Consumption (for Australia) :	125W
Power Supply :	50/60Hz 110/120/220/240V
Power Supply (for Australia) :	240V
Dimensions (W×H×D) :	15-3/16"×4-17/32"×11-25/32"
	(386×115×299)mm
Weight :	12.6 lbs. (5.7kg)

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

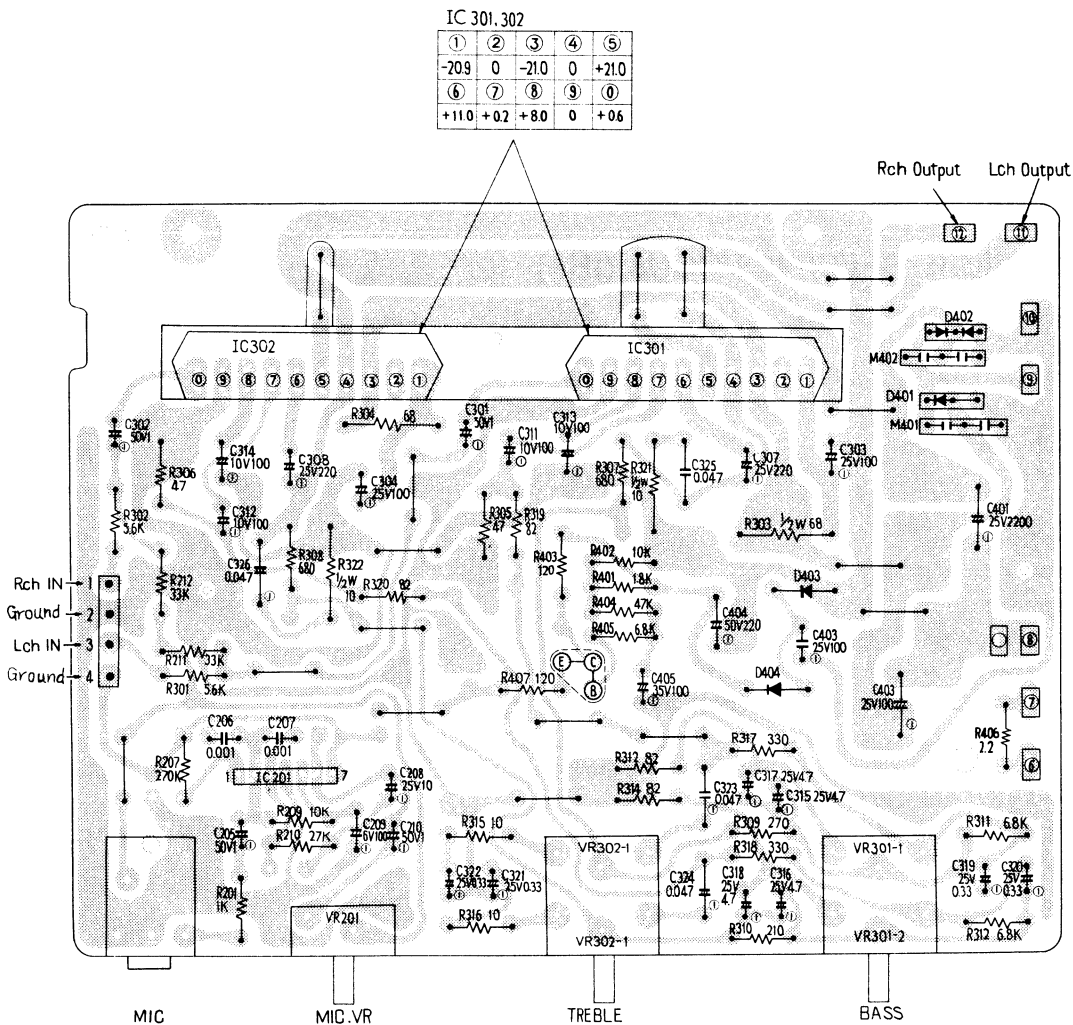
CIRCUIT BOARD

MODEL SU-3050

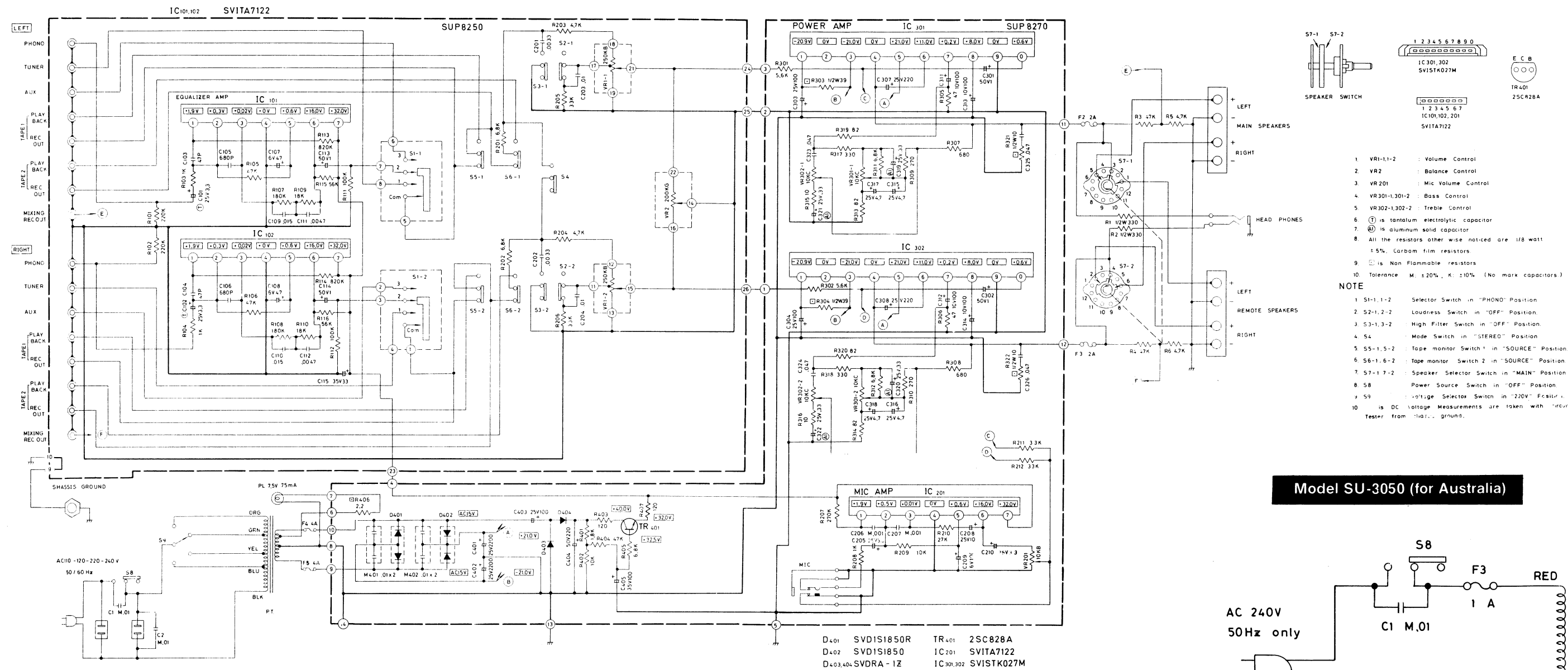
EQUALIZER, TAPE MONITOR & SELECTOR SWITCH



POWER SOURCE & PRE-MAIN AMP.



SCHEMATIC DIAGRAM MODEL SU-3050



LOCATION OF PARTS

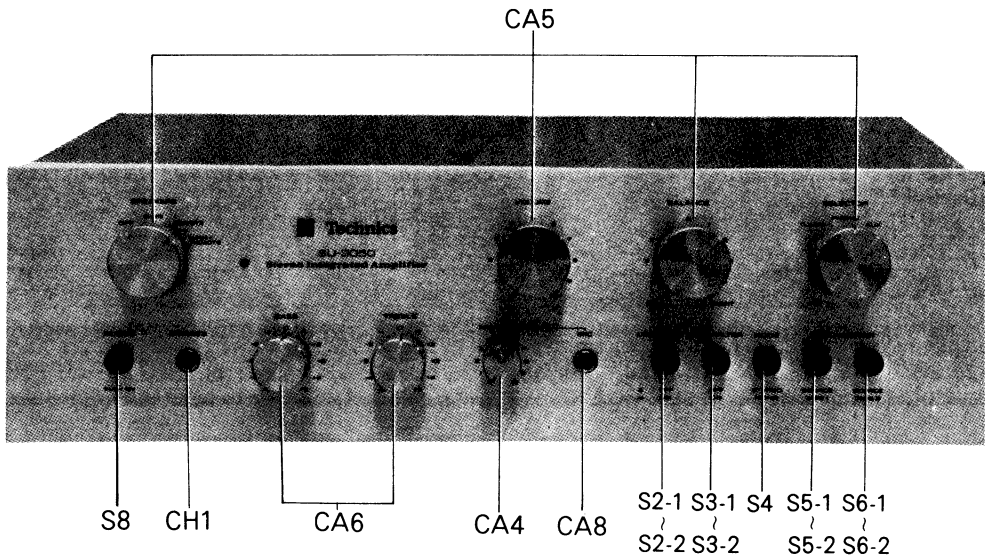


Fig. 1 Front Panel

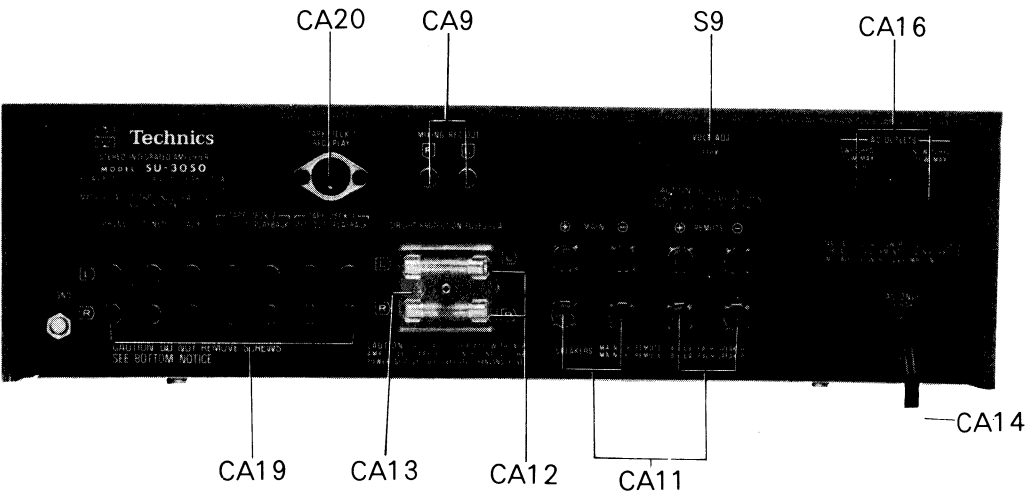


Fig. 2 Rear Panel

REPLACEMENT PARTS LIST

- NOTES:
- 1 Part numbers are indicated on most mechanical parts. Please use this part number, for parts orders.
 - 2 X-Z rank: X rank parts will cover 80% of repair needs. X+Y rank parts will cover 95% of repair needs. Z rank parts are less necessary.

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks	Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
TRANSISTOR and IC					C403	ECEA25V100V	100µF. 25WV. Electrolytic	1	Y
TR401	2SC828A-RS	Power P'base	1	X	C404	ECEA50V220LC	220µF. 50WV. Electrolytic	1	Y
IC101.102	SVITA7122PBC	Equalizer P'base	2	X	COMPONENT COMBINATIONS				
IC201	SVITA7122PBC	Power P'base	1	X	M401.402	RXAF103P22HD	Power P'base	2	Y
IC301.302	SVISTK027M	Power P'base	2	X	SWITCHES				
TRANSFORMER					S1-1.1-2	SSR31	Selector Switch	1	X
T1	SLT5N127	Power Transformer	1	X	S2-1.2-2	SSH503S	Loudness Switch	1	X
T1	SLT5N129	Power Transformer (for Australia)	1	X	S3-1.3-2		High Filter Switch		
DIODES					S4		Mode Switch		
D401	SVD1S1850R	Power P'base	1	X	S5-1.5-2		Tape Monitor Sw. 1		
D402	SVD1S1850	Power P'base	1	X	S6-1.6-2	ESRC124F30B	Tape Monitor Sw. 2	1	X
D403.404	SVDRA-1Z	Power P'base	2	X	S7-1.7-2		Speaker Selector Switch	1	X
RESISTORS					S8		Power Source Switch	1	X
R101.102	ERD18TJ224	220kΩ. 1/8W. ±0.5%. Carbon	2	Y	S9	SSRA8	Voltage Selector Switch	1	X
R103.204.208	ERD18TJ102	1kΩ. 1/8W. ±0.5%. Carbon	3	Y	FUSE and LIGHT				
R105.106	ERD18TJ473	47kΩ. 1/8W. ±0.5%. Carbon	2	Y	F1	XBA2E10NR5	1A Fuse. Power Source (for Australia Only)	1	X
R107.108	ERD18TJ184	180kΩ. 1/8W. ±0.5%. Carbon	2	Y	F2.3	XBAS1A2001	2A Fuse. Speaker	2	X
R109.110	ERD18TJ183	18kΩ. 1/8W. ±0.5%. Carbon	2	Y	F4.5	XBA1K40NR5	4A Fuse. Circuit Protection	2	X
R111.112	ERD18TJ104	100kΩ. 1/8W. ±0.5%. Carbon	2	Y	PL	XAMR28K150	Pilot Lamp 7.5V 75mA	1	X
R113.114	ERD18TJ824	820kΩ. 1/8W. ±0.5%. Carbon	2	Y	CABINET PARTS				
R115.116	ERD18TJ563	56kΩ. 1/8W. ±0.5%. Carbon	2	Y	CA1	SKAA840	Cabinet	1	Y
R201.202.311.312.405	ERD18TJ682	6.8kΩ. 1/8W. ±0.5%. Carbon	5	Y	CA2	SGW6330	Front Panel	1	Y
R203.204	ERD18TJ472	4.7kΩ. 1/8W. ±0.5%. Carbon	2	Y	CA3	SYUA110A	Rear Panel	1	Y
R205.206.211.212	ERD18TJ333	33kΩ. 1/8W. ±0.5%. Carbon	4	Y	CA4	SBNA123	Knob. Mic Level	1	Y
R207	ERD18TJ274	270kΩ. 1/8W. ±0.5%. Carbon	1	Y	CA5	SBNA124	Knob. Speakers. Volume. Balance. Selector.	4	Y
R209.402	ERD18TJ103	10kΩ. 1/8W. ±0.5%. Carbon	2	Y	CA6	SBNA125	Knob. Bass. Treble	2	Y
R210	ERD18TJ273	27kΩ. 1/8W. ±0.5%. Carbon	1	Y	CA7	SGLA9	Panel Light	1	Z
R301.302	ERD18TJ562	5.6kΩ. 1/8W. ±0.5%. Carbon	2	Y	CA8	SJJ37-1	Mic Jack	1	Z
R303.304	ERD12FJ680	68Ω. 1/2W. ±0.5%. Carbon	2	Y	CA9	SJF3201	2 Pin Jack	1	Z
R305.306	ERD18TJ470	47Ω. 1/8W. ±0.5%. Carbon	2	Y	CA10	SJS5409	4 P Socket	1	Y
R307.308	ERD18TJ681	680Ω. 1/8W. ±0.5%. Carbon	2	Y	CA11	SJFA4803-1	Terminal. Speakers	1	Z
R309.310	ERD18TJ271	270Ω. 1/8W. ±0.5%. Carbon	2	Y	CA12	SJFA5201-1	Fuse Holder	1	Z
R313.314.319.320	ERD18TJ820	82Ω. 1/8W. ±0.5%. Carbon	4	Y	CA13	SJFA5202-1	Fuse Holder Cover	1	Y
R315.316	ERD18TJ100	10Ω. 1/8W. ±0.5%. Carbon	2	Y	CA14	SJA33	AC Cord	1	Y
R317.318	ERD18TJ331	330Ω. 1/8W. ±0.5%. Carbon	2	Y	CA15	SJA51	AC Cord (for Australia)	1	Y
R321.322	ERD12FJ100	10Ω. 1/2W. ±0.5%. Carbon	2	Y	CA16	SJA66-1	AC outlet	2	Y
R401	ERD18TJ182	1.8kΩ. 1/8W. ±0.5%. Carbon	1	Y	CA17	SNEA204-2S	Ground Terminal (Screw)	1	Z
R403.407	ERD18TJ121	120Ω. 1/8W. ±0.5%. Carbon	2	Y	CA18	SNEA404	Ground Terminal (Nut)	1	Z
R404	ERD18TJ473	47kΩ. 1/8W. ±0.5%. Carbon	1	Y	CA19	SJF3005	14P Jack Input Terminal	1	Z
R406	ERD18FJ2R2	2.2Ω. 1/8W. ±0.5%. Carbon	1	Y	CA20	SJS13-1	DIN Socket	1	Z
VARIABLE RESISTORS					CHASSIS PARTS				
VR1-1.1-2	EWFPXA085BF5	Volume	1	X	CH1	SJJ31	Head Phone Jack	1	Z
VR2	EVEDVA085G25	Balance	1	X	CH2	SNE31	Head Phone. Mic Jack (Nut)	2	Z
VR2-1.2-2	EWF3NA037C14	Bass. Treble	2	X	CH3	XTV3+12C	Screw. Power IC	4	Z
VR201	EVCTTA088B14	Mic Level Volume	1	X	CH4	XSBA+16BVCS	Screw. Cabinet	4	Z
CAPACITORS					CH5	SJFA2	Fuse Holder (for Australia only)	1	Z
C101.102	ECSZ25EF3R3Q	3.3µF. 25WV. Electrolytic	2	Y	CH6	RJR401-1	4P Holder	1	Z
C103.104	ECCE1H470K	47pF. 50WV. ±10%. Ceramic	2	Y	CH7	RJR2B	4P Holder	1	Z
C105.106	ECKD1H102MD	0.001µF. 50WV. ±10%. Ceramic	2	Y	CH8	SHG1205	Lamp Holder Gum	1	Z
C107.108	ECEA6V47LF	47µF. 6WV. Electrolytic	2	Y	CH9	SMY245	Radiating Boad	1	Z
C109.110	ECQM05153KZ	0.015µF. 50WV. ±10%. Polyester	2	Y	ACCESSORIES				
C111.112	ECQM05472KZ	0.0047µF. 50WV. ±10%. Polyester	2	Y	A1	XBAS1A2001	Fuse	2	X
C113.114.301.302	ECEA50V1G	1µF. 50WV. Electrolytic	4	Y	A2	RJP5	Pin Plug	4	Z
C115.405	ECEA35V100LC	100µF. 35WV. Electrolytic	1	Y	A3	RJP16AS	Attachment Plug	1	X
C201.202	ECQM05332KZ	0.0033µF. 50WV. ±10%. Polyester	2	Y	A4	RJP17AS	Attachment Plug	1	Y
C203.204	ECQM05103KZ	0.01µF. 50WV. ±10%. Polyester	2	Y	PACKING PARTS				
C205.210	ECEA25M3R3F	3.3µF. 25WV. Electrolytic	2	Y	P1	SPPA39	Polyethylene Pag	1	Y
C206.207	ECKC1H102MD	0.001µF. 50WV. ±10%. Ceramic	2	Y	P2	SPPA28	Polyethylene Pag	1	Y
C208	ECEA25V10LF	10µF. 25WV. Electrolytic	1	Y	P3	SPSA137	Pad. Side (for the 3rd territory)	2	Y
C209	ECEA6V100LF	100µF. 6WV. Electrolytic	1	Y	P4	SPSA16-2	Pad. Side (for the 2nd territory)	2	Y
C303.304	ECEA25V100LC	100µF. 25WV. Electrolytic	2	Y	P5	SPSA36	Pad. Top (for the 3rd territory and Australia)	1	Y
C307.308	ECEA25V220LC	220µF. 25WV. Electrolytic	2	Y	P6	SPNA390A	Carton Box. Inside (for the 3rd territory)	1	Y
C311.312.313.314	ECEA10V100LF	100µF. 10WV. Electrolytic	4	Y	P7	SPN5083	Carton Box. Inside (for the 2nd territory)	1	Y
C315.316.317.318	ECEA25Z4R7F	4.7µF. 25WV. Electrolytic	4	Y	P8	SPGA751A	Carton Box. Outside (for the 3rd territory)	1	Y
C319.320	ECEG25ER33G	0.33µF. 25WV. Electrolytic	4	Y	P9	SQF919	Printed Matter (Complete)	1	Y
C321.322	ECQM05473KZ	0.047µF. 50WV. ±10%. Polyester	4	Y	P10	SQF935	Printed Matter (for Australia)	1	Y
C323.324.325.326	ECQM05473KZ	0.047µF. 50WV. ±10%. Polyester	4	Y	P11	SPB1065	Polyethylene Bag	1	Z
C401.402	ECET25R2200S	2200µF. 25WV. Electrolytic	2	Y	P12	SPS53	Pad. Bottom (for Holland Only)	1	Y