

# Service Manual

FM/AM STEREO RECEIVER

## SA-5760

(M), (MC)



Simulated wood cabinet

### TECHNICAL SPECIFICATIONS (IHF) Specifications are subject to change without notice for further improvement.

#### AMPLIFIER SECTION

Rated minimum sine wave RMS power output

20 Hz ~ 20 kHz

both channels driven

0.08% total harmonic distortion

165W per channel (8 ohms)

20 Hz~20 kHz continuous power output

both channels driven

0.08% total harmonic distortion

205W per channel (4 ohms)

1 kHz continuous power output

both channels driven

0.08% total harmonic distortion

175W per channel (8 ohms)

230W per channel (4 ohms)

Total harmonic distortion 0.08% at rated power (20 Hz~20 kHz)

0.015% at half power (1 kHz)

Intermodulation distortion

0.1%

Damping factor

60 (8 ohms)

Input sensitivity and impedance

PHONO 1, 2

2.5mV/25,50, 100 kilohms

AUX TAPE 1, 2 PLAYBACK

200mV/50 kilohms

PHONO maximum input voltage (1 kHz, RMS)

250mV

S/N (IHF, A)

PHONO

78 dB

AUX

95 dB

Frequency response

PHONO

RIAA standard curve  $\pm 0.2$  dB

AUX

20 Hz~20 kHz,  $+0$  dB

$-0.3$  dB

Tone controls BASS

50 Hz,  $+12$  dB~ $-12$  dB

TREBLE

10 kHz,  $+10$  dB~ $-10$  dB

Turnover frequency BASS

250 Hz, 500 Hz

TREBLE

2.5 kHz, 5 kHz

Loudness control (volume at  $-30$  dB)

50 Hz,  $+10$  dB

High filter

7 kHz,  $-12$  dB/oct.

Low filter

30 Hz,  $-12$  dB/oct.

Muting

$-20$  dB

Output voltage

TAPE 1, 2 REC OUT

200mV

Load impedance

MAIN or REMOTE

4~16 ohms

MAIN + REMOTE

8~16 ohms

#### FM TUNER SECTION

Frequency range

88~108 MHz

Sensitivity

10.3 dBf

1.8  $\mu$ V (IHF '58)

12.8 dBf

2.4  $\mu$ V (IHF '58)

35.7 dBf

33.4  $\mu$ V (IHF '58)

50 dB quieting sensitivity

MONO

STEREO

Total harmonic distortion

MONO

0.1%

STEREO

0.15%

S/N (HI-LAG)

MONO

85 dB

STEREO

75 dB

Frequency response

CONST

20 Hz~18 kHz,

$+0.2$  dB

$-0.8$  dB

HI-LAG

20 Hz~15 kHz,

$+0.2$  dB

$-0.8$  dB

80 dB

Alternate channel selectivity

Capture ratio

1.0 dB

Image rejection at 98 MHz

85 dB

IF rejection at 98 MHz

100 dB

Spurious response rejection at 98 MHz

100 dB

AM suppression

60 dB

Stereo separation

1 kHz

45 dB

10 kHz

38 dB

Leak carrier (HI-LAG)

$-65$  dB

#### AM TUNER SECTION

Frequency range

525~1605 kHz

Sensitivity

30  $\mu$ V, 250  $\mu$ V/m

Selectivity

22 dB

Image rejection at 1000 kHz

47 dB

IF rejection at 1000 kHz

40 dB

#### GENERAL

Power consumption

430W only for America

820VA only for Canada

AC 120V 60 Hz

Power supply

Dimensions (W x H x D)

21 $\frac{1}{2}$ " x 6 $\frac{1}{2}$ " x 19 $\frac{1}{2}$ "

(550 x 175 x 493)mm

Weight

50.7 lb. (23 kg)

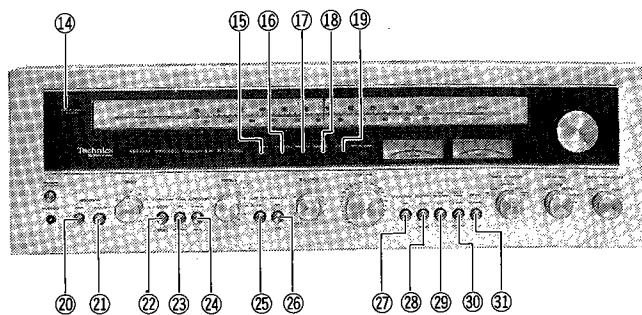
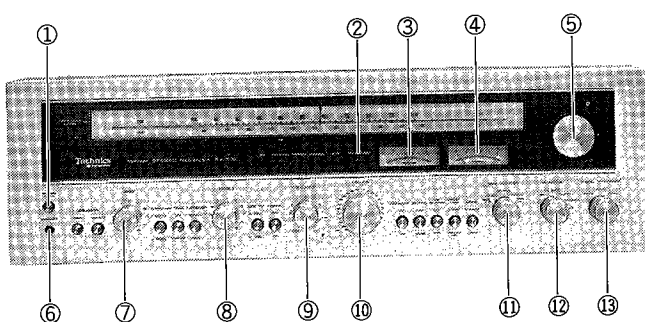
**Technics**  
by Panasonic

Panasonic Company  
Division of Matsushita Electric  
Corporation of America  
One Panasonic Way, Secaucus,  
New Jersey 07094

Matsushita Electric of Hawaii, Inc.  
320 Waiakamilo Road, Honolulu,  
Hawaii 96817

Matsushita Electric of Canada Ltd.  
40 Ronson Drive, Rexdale,  
Ontario, Canada M9W 1B5

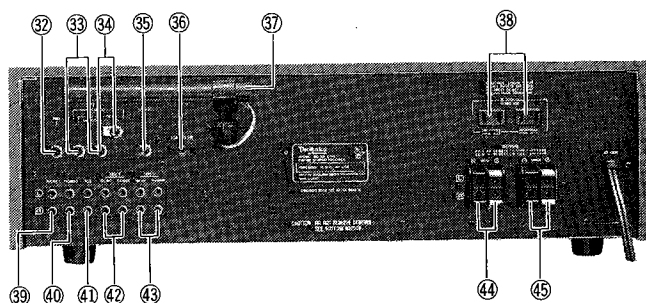
## LOCATION OF CONTROLS



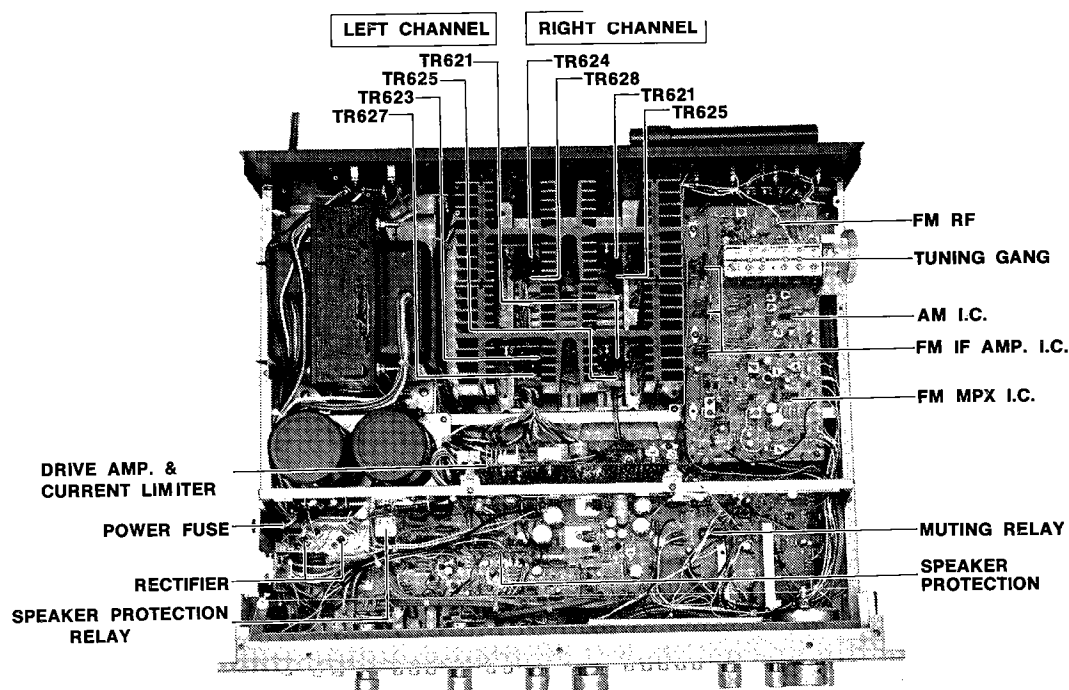
- ① POWER SWITCH
- ② FM STEREO INDICATOR
- ③ FM CENTER-TUNING METER
- ④ FM/AM SIGNAL STRENGTH METER
- ⑤ TUNING CONTROL
- ⑥ HEADPHONES JACK
- ⑦ BASS CONTROL
- ⑧ TREBLE CONTROL
- ⑨ BALANCE CONTROL
- ⑩ VOLUME CONTROL
- ⑪ TAPE MONITOR SELECTOR SWITCH

- ⑫ INPUT SELECTOR SWITCH
- ⑬ PHONO IMPEDANCE SWITCH
- ⑭ OVER LOAD ALARM INDICATOR
- ⑮ AM FUNCTION INDICATOR
- ⑯ FM AUTO FUNCTION INDICATOR
- ⑰ PHONO 1 FUNCTION INDICATOR
- ⑱ PHONO 2 FUNCTION INDICATOR
- ⑲ AUX FUNCTION INDICATOR
- ⑳ MAIN SPEAKER SWITCH
- ㉑ REMOTE SPEAKER SWITCH
- ㉒ TURNOVER(BASS) SWITCH

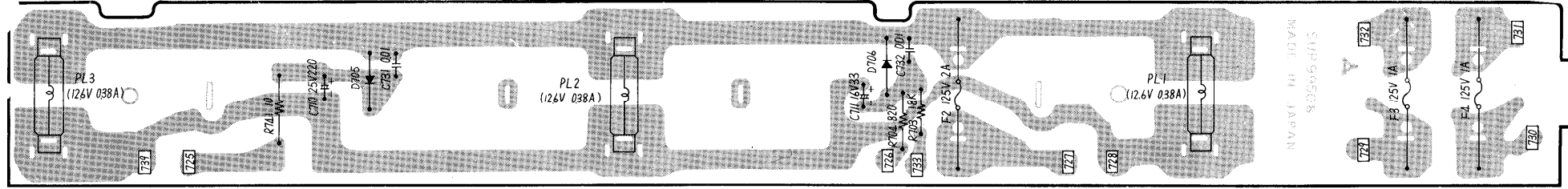
- ㉓ TONE DEFEAT SWITCH
- ㉔ TURNOVER(TREBLE) SWITCH
- ㉕ LOW FILTER SWITCH
- ㉖ HIGH FILTER SWITCH
- ㉗ LOUDNESS SWITCH
- ㉘ AUDIO MUTING SWITCH
- ㉙ FM MUTING
- ㉚ DELAY TIME SWITCH
- ㉛ MODE SWITCH



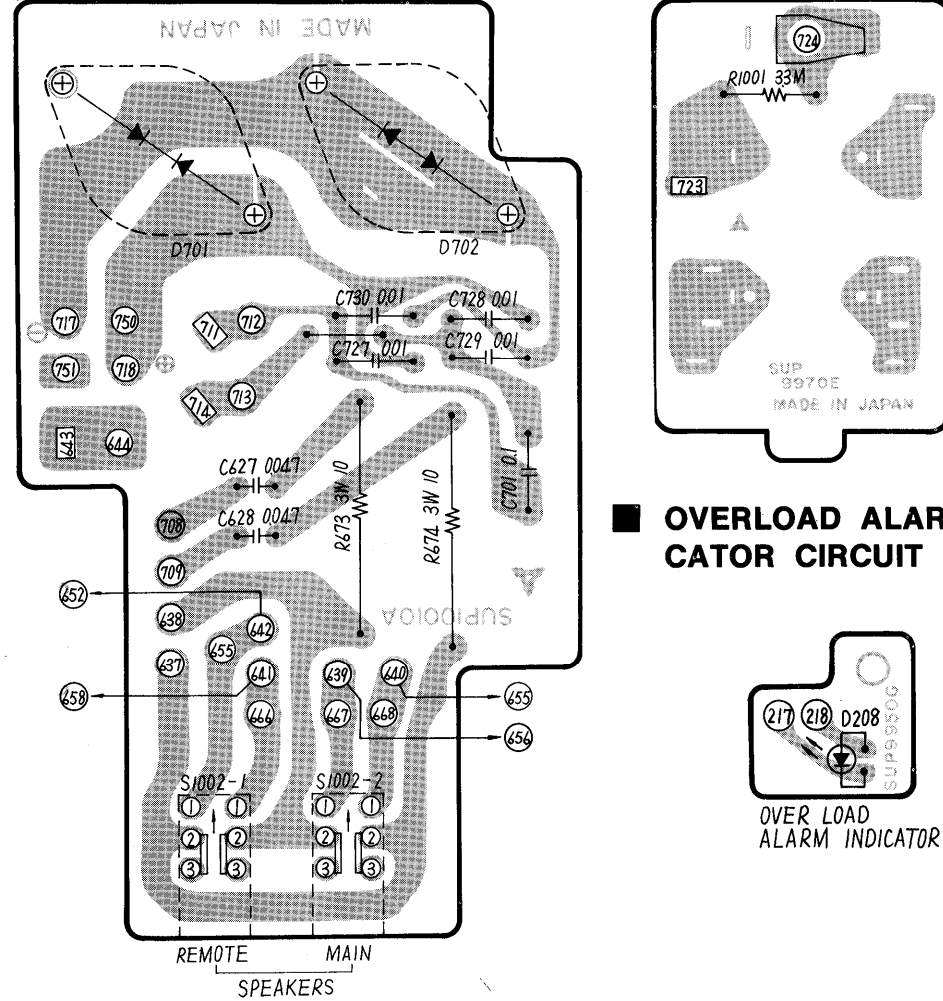
- ㉜ GROUND TERMINAL
- ㉝ 300Ω FM ANTENNA TERMINALS
- ㉞ 75Ω FM ANTENNA TERMINALS
- ㉟ AM ANTENNA TERMINAL
- ㊱ FM 4CHANNEL MPX OUTPUT TERMINAL
- ㊲ AM ANTENNA COIL
- ㊳ AC OUTLETS
- ㊴ PHONO 1 INPUT TERMINALS
- ㊵ PHONO 2 INPUT TERMINALS
- ㊶ AUX INPUT TERMINALS
- ㊷ TAPE DECK 2 CONNECTION TERMINALS
- ㊸ TAPE DECK 1 CONNECTION TERMINALS
- ㊹ MAIN SPEAKER TERMINALS
- ㊺ REMOTE SPEAKER TERMINALS



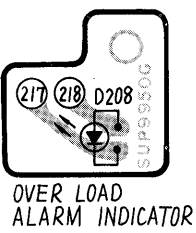
DIAL LIGHT & POWER SUPPLY OF FUNCTION INDICATOR CIRCUIT BOARD



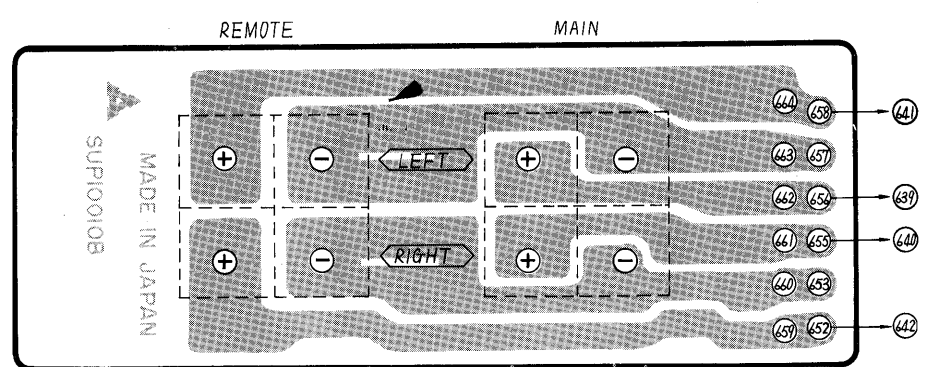
POWER SUPPLY OF POWER AMPLIFIER & SPEAKERS SWITCH CIRCUIT BOARD



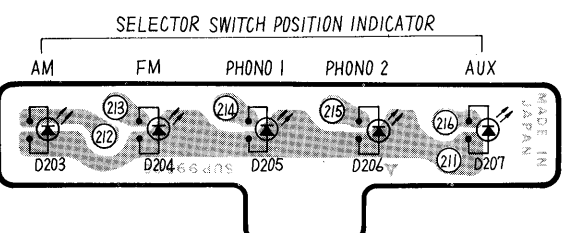
OVERLOAD ALARM INDICATOR CIRCUIT BOARD



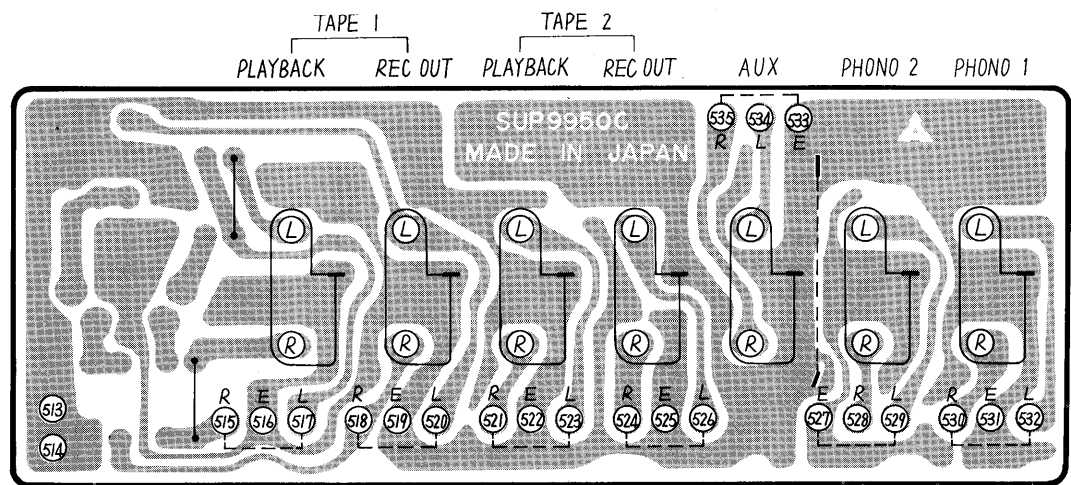
SPEAKERS TERMINAL CIRCUIT BOARD



FUNCTION INDICATOR CIRCUIT BOARD

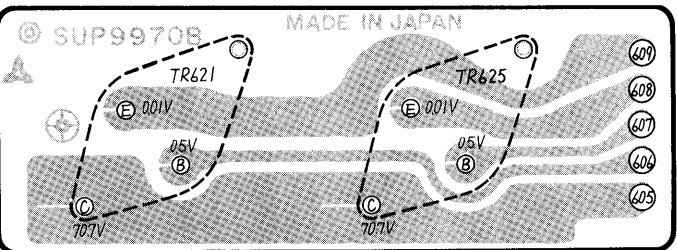
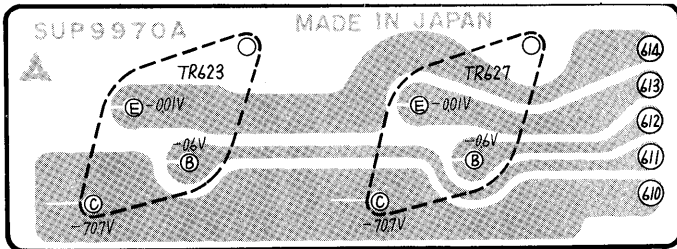


INPUT & TAPE DECK CONNECTION TERMINAL CIRCUIT BOARD

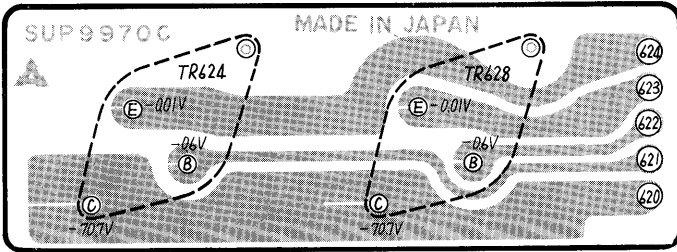


POWER AMPLIFIER CIRCUIT BOARDS

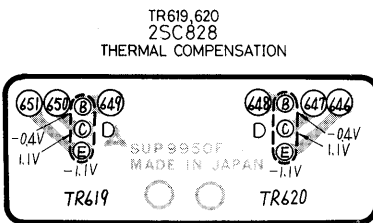
Left Channel Amplifier



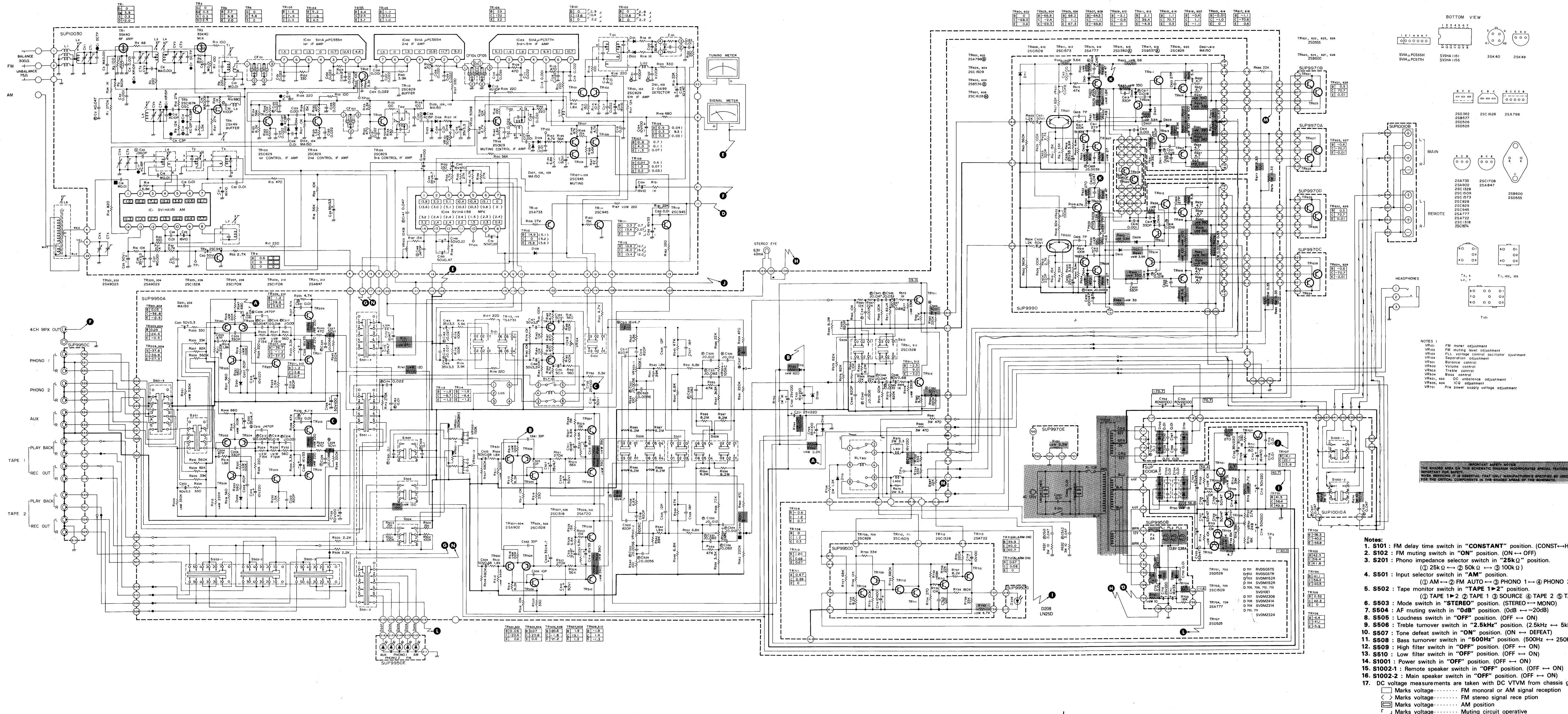
Right Channel Amplifier



POWER AMPLIFIER THERMAL COMPENSATION CIRCUIT BOARD

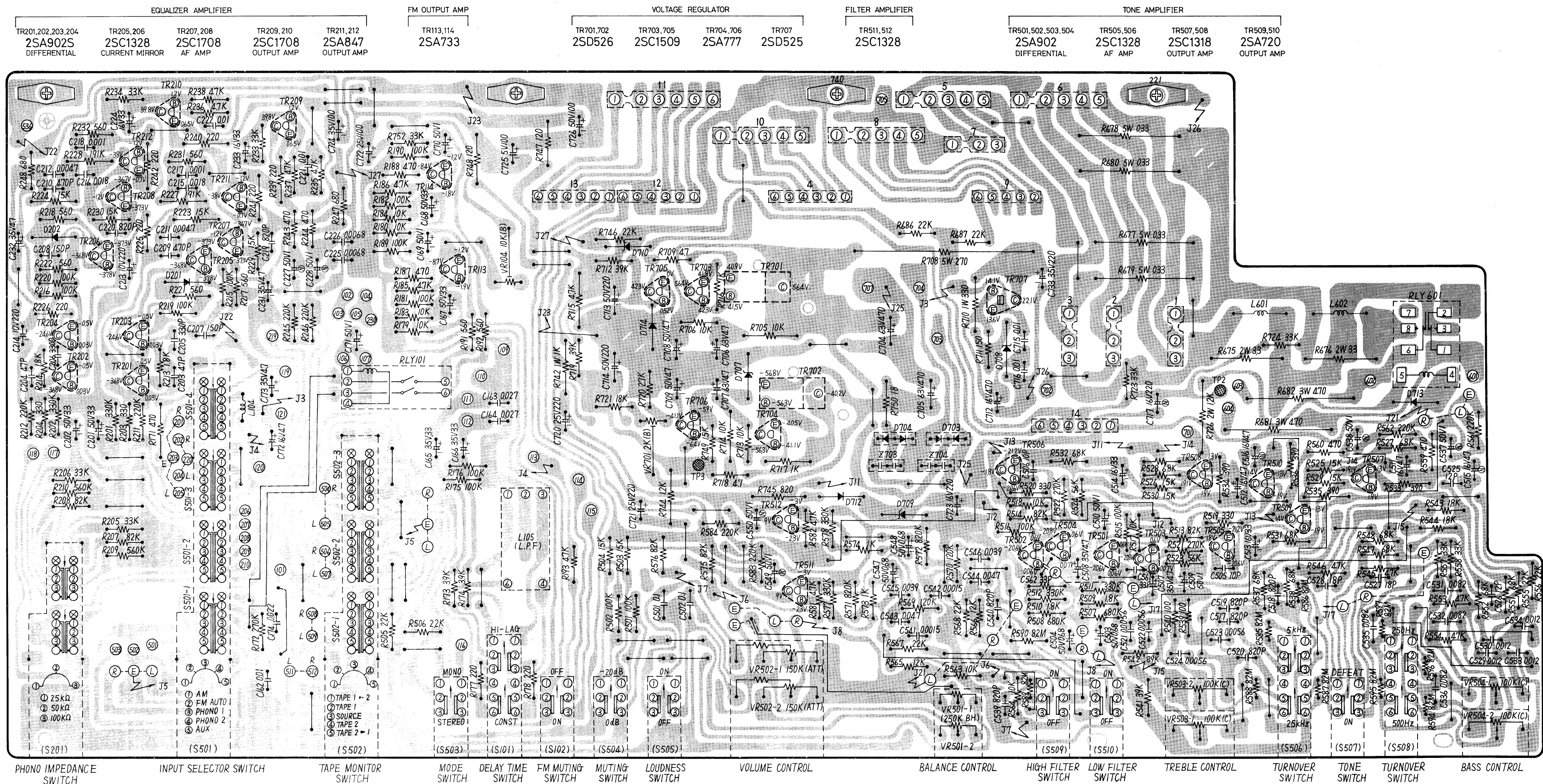






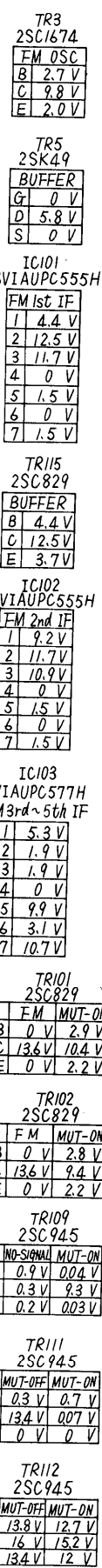


## ■ EQUALIZER AMPLIFIER, TAPE MONITOR, TONE CONTROL, TONE AMPLIFIER, FILTER AMPLIFIER, MUTING RELAY & SPEAKER PROTECTION RELAY CIRCUIT BOARD





## ■ MAIN AMPLIFIER CIRCUIT BOARD



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

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Please use this part number for parts orders.

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
<b>INTEGRATED CIRCUITS</b>				
IC1	SVHA1151	AM RF, IF Amplifier & AM Detector	1	
IC101, 102	SV1AUPC55HF	FM IF Amplifier	2	
IC103	SV1AUPC57HF	FM IF Amplifier	1	
IC104	SV1HA1156W	FM Multiplex Circuit	1	
<b>TRANSISTORS</b>				
TR1, 2	3SK40-L	FM RF Amplifier & FM Mix [FET]	2	
TR3	2SC1674-M	FM Oscillator	1	
TR4, 107, 108,	<b>2SC946-R</b>	Shock Noise & Muting Relay Switching	6	
109, 111, 112				
TR5	2SK49-H1	Buffer Amplifier [FET]	1	
TR101, 102, 103,	2SC829-C1	FM Control IF Amplifier	7	
104, 105, 106,				
115				
TR201, 202, 203,	2SA902S-F	Differential Amplifier, (in ranks For G)	4	
204		(Use in pair ranks)		
TR205, 206, 505,	<b>2SC1328-T</b>	Current Mirror AF Amplifier & Speaker Protection Switching	9	
506, 511, 512,				
708, 709, 712	2SC1708-G	Equalizer Amplifier	4	
TR207, 208, 209,				
210				
TR211, 212	2SA847-G	AF Amplifier	2	
TR110, 113, 114	2SA733-P1	Stereo Indicator Driver & AF Amp.	2	
TRR501, 502, 503,	<b>2SA902-F</b>	Differential Amplifier, (in ranks For G)	5	
504, 713		(Use in pair ranks)		
TRR507, 508	2SC1318-T	Tone Amplifier (in ranks S or T)	2	
TRR509, 510	2SA720-R	Tone Amplifier (in ranks R, S or T)	2	
TRR601, 602	2SA798B-F2	Differential Amplifier (in ranks F2 or G2)	2	
TRR603, 604, 609,	2SC1509-R	Pre Drive Amp. Current Protection,	8	
610, 703, 705,		Voltage Control & Relay Driver		
710, 711		(in ranks Q or R)		
TRR605, 606	2SB536B-M9	Pre Drive Amplifier (in ranks M9 or N9)	2	
TRR607, 608	2SC1628M-Y	Pre Drive Amplifier (in ranks Y or O)	2	
TRR611, 612	2SC1573-Q	Current Protection (in ranks R or Q)	2	
TRR613, 614	<b>2SA777-Q</b>	Current Protection (in ranks R or Q)	2	
TRR615, 616	2SB362A-L2	Drive Amplifier (in ranks L2 or M2)	2	
TRR617, 618	2SB537A-L2	Drive Amplifier (in ranks L2 or M2)	2	
TRR619, 620	<b>2SC828A-R</b>	Thermal Compensation	2	
TRR621, 622, 625,	2SD555-Q	Power Amplifier	4	
626		(in ranks Q or R)		
TRR623, 624, 627		Power Amplifier	4	
628	2SB800-Q	(in ranks Q or R)		
TRR701, 702	2SD526-02	Voltage Control (in ranks R2, O2 or Y2)	2	
TRR704	2SA777-Q	Voltage Control (in ranks Q or R)	1	
TRR707	2SD525-0	Voltage Control (in ranks R, O or Y)	1	
<b>DIODES</b>				
2-OA99	FM Discriminator		1pair	
101, 102	MA150	Muting & Meter Detector, AOC, AGC & Switching	23	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
D109, 110, 201, 202, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 714 D203, 204, 205, 206, 207, 208	LN25D	Indicator [LED]	6	
D701 D702 D703 D704 D705, 706, 712, 718	RVPS2515 RVPS2517 RVPS2518 RVPS2519 RVPS2520 RVPS2521 RVPS2522	Resistor Resistor Resistor Resistor Resistor Resistor Resistor		
D707 D708 D709 D710, 711	SVDMZ306 SVDMZ414 SVDMZ314 SVDMZ324	6V Zener, Voltage Stabilizer 14V Zener, Voltage Stabilizer 14V Zener, Voltage Stabilizer 24V Zener, Voltage Stabilizer	1 1 1 2	○ ○
<b>COILS AND TRANSFORMERS</b>				
L1 L2, 4 L3 L5 L6 L7 L8 L9 L102, 103, 104, L105 L601, 602 T1 T2 T3 T101 T102 T103	SLAA4M1-3 SLAA4N11 SLDA4N21 SLOA4N14 RL02M4P SL12M401 SLF2D25 RLQV25S5 SLCX101-2D SLMA123-K SLQY16G-1U SLA4C101 RL2M201 RL2M202 SLIA4DS1-T SLIA4C241 SLIA4C242 SLIA4C242	FM Balun Coil FM Antenna Coil FM Detector Coil FM Oscillator Coil AM Oscillator Coil AM IF Transformer AM Antenna Coil Choke Coil Choke Coil Low Pass Filter High Character Correct Coil FM 1st IF Transformer AM IF Transformer AM IF Transformer FM Discriminator IF Transformer Muting IF Transformer Muting IF Transformer	1 2 1 1 1 1 1 1 1 3 2 2 1 1 1 1 1 1 1	○
<b>CERAMIC FILTERS</b>				
CF103, 104, 105	{ SVFF10M12CGG SVFF10M12CGB SVFF10M12CGW SVFF10M12CGY SVFF10M14GG SVFF10M14GB SVFF10M14GR SVFF10M14GW SVFF10M14GY	{ FM IF Circuit, 10.8MHz, Green FM IF Circuit, 10.65MHz, Black FM IF Circuit, 10.7MHz, Red FM IF Circuit, 10.75MHz, White FM IF Circuit, 10.8MHz, Yellow FM IF Circuit, 10.65MHz, Green FM IF Circuit, 10.65MHz, Black FM IF Circuit, 10.7MHz, Red FM IF Circuit, 10.75MHz, White FM IF Circuit, 10.8MHz, Yellow	each 3	
CF101	{ SVFF10M12CGG SVFF10M12CGB SVFF10M12CGW SVFF10M12CGY SVFF10M14GG SVFF10M14GB SVFF10M14GR SVFF10M14GW SVFF10M14GY	{ FM IF Circuit, 10.8MHz, Green FM IF Circuit, 10.65MHz, Black FM IF Circuit, 10.7MHz, Red FM IF Circuit, 10.75MHz, White FM IF Circuit, 10.8MHz, Yellow	each 1	○
(Use pair ranks as same as CF101, 103, 104 and 105)				
<b>RESISTORS</b>				
ER1 ER2 ER3 ER4	ERD25T1274 ERD25T1824 ERD25T1821 ERD25T1680	270kΩ, 1/4W, ±5%, Carbon 820kΩ, 1/4W, ±5%, Carbon 100Ω, 1/4W, ±5%, Carbon 68Ω, 1/4W, ±5%, Carbon	1 1 1 1	



Ref. No.	Part No.	Part Name & Description				Per Set	Remarks
R5	ERD25TJ221	220Ω	1/4W	±5%	Carbon	1	
R6	ERD25TJ821	820Ω	1/4W	±5%	Carbon	1	
R7	ERD25TJ101	100Ω	1/4W	±5%	Carbon	1	
R8	ERD25TJ221	220Ω	1/4W	±5%	Carbon	1	
R9	ERD25TJ123	12kΩ	1/4W	±5%	Carbon	1	
R10	ERD25TJ273	27kΩ	1/4W	±5%	Carbon	1	
R11	ERD25TJ152	1.5kΩ	1/4W	±5%	Carbon	1	
R12	ERD25TJ681	680Ω	1/4W	±5%	Carbon	1	
R13	ERD25TJ101	100Ω	1/4W	±5%	Carbon	1	
R14	ERD25TJ682	6.8kΩ	1/4W	±5%	Carbon	1	
R15	ERD25TJ471	470Ω	1/4W	±5%	Carbon	1	
R16	ERD25TJ563	56kΩ	1/4W	±5%	Carbon	1	
R17	ERD25TJ221	220Ω	1/4W	±5%	Carbon	1	
R18	ERD25TJ821	820Ω	1/4W	±5%	Carbon	1	
R19	ERD25TJ103	10kΩ	1/4W	±5%	Carbon	1	
R20	ERD25TJ331	330Ω	1/4W	±5%	Carbon	1	
R21	ERD25TJ103	10kΩ	1/4W	±5%	Carbon	1	
R22	ERD25TJ272	2.7kΩ	1/4W	±5%	Carbon	1	
R23	ERD25TJ272	2.7kΩ	1/4W	±5%	Carbon	1	
R24	ERD25TJ102	10kΩ	1/4W	±5%	Carbon	1	
R25	ERD25TJ103	10kΩ	1/4W	±5%	Carbon	1	
R26	ERD25TJ102	1kΩ	1/4W	±5%	Carbon	1	
R27	ERD25TJ273	27kΩ	1/4W	±5%	Carbon	1	
R102	ERD25TJ331	330Ω	1/4W	±5%	Carbon	1	
R103	ERD25TJ272	2.7kΩ	1/4W	±5%	Carbon	1	
R104	ERD25TJ101	100Ω	1/4W	±5%	Carbon	1	
R105	ERD25TJ221	220Ω	1/4W	±5%	Carbon	1	
R106	ERD25TJ471	470Ω	1/4W	±5%	Carbon	1	
R107	ERD25TJ221	220Ω	1/4W	±5%	Carbon	1	
R108	ERD25TJ471	470Ω	1/4W	±5%	Carbon	1	
R109	ERD25TJ221	220Ω	1/4W	±5%	Carbon	1	
R110	ERD25TJ471	470Ω	1/4W	±5%	Carbon	1	
R111	ERD25TJ221	220Ω	1/4W	±5%	Carbon	1	
R112	ERD25TJ182	1.8kΩ	1/4W	±5%	Carbon	1	
R113	ERD25TJ151	150Ω	1/4W	±5%	Carbon	1	
R114	ERD25TJ103	10kΩ	1/4W	±5%	Carbon	1	
R115	ERD25TJ101	100Ω	1/4W	±5%	Carbon	1	
R116	ERD25TJ221	220Ω	1/4W	±5%	Carbon	1	
R117	ERD25TJ123	12kΩ	1/4W	±5%	Carbon	1	
R118	ERD25TJ102	1kΩ	1/4W	±5%	Carbon	1	
R119	ERD25TJ102	1kΩ	1/4W	±5%	Carbon	1	
R120	ERD25TJ331	330Ω	1/4W	±5%	Carbon	1	
R121	ERD25TJ223	22kΩ	1/4W	±5%	Carbon	1	
R122	ERD25TJ331	330Ω	1/4W	±5%	Carbon	1	
R123	ERD25TJ822	8.2kΩ	1/4W	±5%	Carbon	1	
R124	ERD25TJ563	56kΩ	1/4W	±5%	Carbon	1	
R125	ERD25TJ221	220Ω	1/4W	±5%	Carbon	1	
R126	ERD25TJ152	1.5kΩ	1/4W	±5%	Carbon	1	
R127	ERD25TJ103	10kΩ	1/4W	±5%	Carbon	1	
R128	ERD25TJ153	15kΩ	1/4W	±5%	Carbon	1	
R129	ERD25TJ152	1.5kΩ	1/4W	±5%	Carbon	1	
R130	ERD25TJ471	470Ω	1/4W	±5%	Carbon	1	
R131	ERD25TJ101	100Ω	1/4W	±5%	Carbon	1	
R132	ERD25TJ471	470Ω	1/4W	±5%	Carbon	1	
R133	ERD25TJ332	3.3kΩ	1/4W	±5%	Carbon	1	
R134	ERD25TJ331	330Ω	1/4W	±5%	Carbon	1	
R135	ERD25TJ101	100Ω	1/4W	±5%	Carbon	1	
R136	ERD25TJ101	100Ω	1/4W	±5%	Carbon	1	
R137	ERD25TJ102	1kΩ	1/4W	±5%	Carbon	1	
R138	ERD25TJ272	2.7kΩ	1/4W	±5%	Carbon	1	

Ref. No.	Part No.	Part Name & Description				Per Set	Remarks
R139	ERD25TJ103	10kΩ	1/4W	±5%	Carbon	1	
R140	ERD25TJ182	1.8kΩ	1/4W	±5%	Carbon	1	
R141	ERD25TJ101	100Ω	1/4W	±5%	Carbon	1	
R142	ERD25TJ221	220Ω	1/4W	±5%	Carbon	1	
R143	ERD25TJ472	4.7kΩ	1/4W	±5%	Carbon	1	
R144	ERD25TJ682	6.8kΩ	1/4W	±5%	Carbon	1	
R145	ERD25TJ563	56kΩ	1/4W	±5%	Carbon	1	
R146	ERD25TJ473	47kΩ	1/4W	±5%	Carbon	1	
R147	ERD25TJ820	82Ω	1/4W	±5%	Carbon	1	
R148	ERD25TJ472	4.7kΩ	1/4W	±5%	Carbon	1	
R149	ERD25TJ681	680Ω	1/4W	±5%	Carbon	1	
R150	ERD25TJ563	56kΩ	1/4W	±5%	Carbon	1	
R151	ERD25TJ102	1kΩ	1/4W	±5%	Carbon	1	
R152	ERD25TJ331	330Ω	1/4W	±5%	Carbon	1	
R153	ERD25TJ472	4.7kΩ	1/4W	±5%	Carbon	1	
R154	ERD25TJ472	4.7kΩ	1/4W	±5%	Carbon	1	
R155	ERD25TJ273	27kΩ	1/4W	±5%	Carbon	1	
R156	ERD25TJ273	27kΩ	1/4W	±5%	Carbon	1	
R157	ERD25TJ153	15kΩ	1/4W	±5%	Carbon	1	
R158	ERD25TJ102	1kΩ	1/4W	±5%	Carbon	1	
R159	ERD25TJ273	27kΩ	1/4W	±5%	Carbon	1	
R160	ERD25TJ153	15kΩ	1/4W	±5%	Carbon	1	
R161	ERD25TJ223	22kΩ	1/4W	±5%	Carbon	1	
R162	ERD25TJ221	220Ω	1/4W	±5%	Carbon	1	
R163	ERD25TJ392	3.9kΩ	1/4W	±5%	Carbon	1	
R164	ERD25TJ332	3.3kΩ	1/4W	±5%	Carbon	1	
R165	ERD25TJ562	5.6kΩ	1/4W	±5%	Carbon	1	
R166	ERD25TJ153	15kΩ	1/4W	±5%	Carbon	1	
R167	ERD50TJ221	220Ω	1/2W	±5%	Carbon	1	
R172	ERD25TJ274	270kΩ	1/4W	±5%	Carbon	1	
R173	ERD25TJ392	3.9kΩ	1/4W	±5%	Carbon	1	
R174	ERD25TJ392	3.9kΩ	1/4W	±5%	Carbon	1	
R175	ERD25TJ104	100kΩ	1/4W	±5%	Carbon	1	
R176	ERD25TJ104	100kΩ	1/4W	±5%	Carbon	1	
R177	ERD25TJ221	220Ω	1/4W	±5%	Carbon	1	
R178	ERD25TJ221	220Ω	1/4W	±5%	Carbon	1	
R179	ERD25TJ103	10kΩ	1/4W	±5%	Carbon	1	
R180	ERD25TJ103	10kΩ	1/4W	±5%	Carbon	1	
R181	ERD25TJ104	100kΩ	1/4W	±5%	Carbon	1	
R182	ERD25TJ104	100kΩ	1/4W	±5%	Carbon	1	
R183	ERD25TJ103	10kΩ	1/4W	±5%	Carbon	1	
R184	ERD25TJ103	10kΩ	1/4W	±5%	Carbon	1	
R185	ERD25TJ472	4.7kΩ	1/4W	±5%	Carbon	1	
R186	ERD25TJ472	4.7kΩ	1/4W	±5%	Carbon	1	
R187	ERD25TJ471	470Ω	1/4W	±5%	Carbon	1	
R188	ERD25TJ471	470Ω	1/4W	±5%	Carbon	1	
R189	ERD25TJ104	100kΩ	1/4W	±5%	Carbon	1	
R190	ERD25TJ104	100kΩ	1/4W	±5%	Carbon	1	
R191	ERD25TJ561	560Ω	1/4W	±5%	Carbon	1	
R192	ERD25TJ561	560Ω	1/4W	±5%	Carbon	1	
R193	ERD25TJ472	4.7kΩ	1/4W	±5%	Carbon	1	
R201	ERD14TSJ334	330kΩ	1/4W	±5%	Carbon	1	
R202	ERD14TSJ334	330kΩ	1/4W	±5%	Carbon	1	
R203	ERD25TJ331	330Ω	1/4W	±5%	Carbon	1	
R204	ERD25TJ331	330Ω	1/4W	±5%	Carbon	1	
R205	ERD25TJ333	33kΩ	1/4W	±5%	Carbon	1	
R206	ERD25TJ333	33kΩ	1/4W	±5%	Carbon	1	
R207	ERD25TJ823	82kΩ	1/4W	±5%	Carbon	1	

Ref. No.	Part No.	Part Name & Description				Per Set	Remarks
R208	ERD25TJ823	82k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R209	ERD25TJ564	560k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R210	ERD25TJ564	560k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R211	ERD14TSJ224	220k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R212	ERD14TSJ224	220k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R213	ERD25TJ182	1.8k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R214	ERD25TJ182	1.8k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R215	ERD14TSJ104	100k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R216	ERD14TSJ104	100k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R217	ERD25TJ561	560 $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R218	ERD25TJ561	560 $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R219	ERD14TSJ104	100k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R220	ERD14TSJ104	100k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R221	ERD25TJ561	560 $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R222	ERD25TJ561	560 $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R223	ERO50CKF1502	15k $\Omega$ ,	1/2W,	$\pm 1\%$ ,	Metallic	1	
R224	ERO50CKF1502	15k $\Omega$ ,	1/2W,	$\pm 1\%$ ,	Metallic	1	
R225	ERD25TJ221	220 $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R226	ERD25TJ221	220 $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R227	ERO50CKF1913	191k $\Omega$ ,	1/2W,	$\pm 1\%$ ,	Metallic	1	
R228	ERO50CKF1913	191k $\Omega$ ,	1/2W,	$\pm 1\%$ ,	Metallic	1	
R229	ERD25TJ152	1.5k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R230	ERD25TJ152	1.5k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R231	ERD25TJ561	560 $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R232	ERD25TJ561	560 $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R233	ERD25TJ332	3.3k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R234	ERD25TJ332	3.3k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R235	ERD25TJ472	4.7k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R236	ERD25TJ472	4.7k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R237	ERD25TJ473	47k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R238	ERD25TJ473	47k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R239	ERD14FJ221	220 $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R240	ERD14FJ221	220 $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R241	ERD14FJ221	220 $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R242	ERD14FJ221	220 $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R243	ERD25TJ471	470 $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R244	ERD25TJ471	470 $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R245	ERD25TJ224	220k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R246	ERD25TJ224	220k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R247	ERD25TJ681	680 $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R248	ERD25TJ681	680 $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R501	ERD25TJ104	100k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R502	ERD25TJ104	100k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R503	ERD25TJ153	15k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R504	ERD25TJ153	15k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R505	ERD25TJ222	2.2k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R506	ERD25TJ222	2.2k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R507	ERD25TJ684	680k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R508	ERD25TJ684	680k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R509	ERD25TJ182	1.8k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R510	ERD25TJ182	1.8k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R511	ERD14TSJ334	330k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R512	ERD14TSJ334	330k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R513	ERD25TJ822	8.2k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R514	ERD25TJ822	8.2k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R515	ERD14TSJ104	100k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R516	ERD14TSJ104	100k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R517	ERD25TJ103	10k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R518	ERD25TJ103	10k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R519	ERD25TJ331	330 $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R520	ERD25TJ331	330 $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	

Ref. No.	Part No.	Part Name & Description				Per Set	Remarks
R521	ERD25TJ274	270k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R522	ERD25TJ274	270k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R523	ERD25TJ563	56k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R524	ERD25TJ563	56k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R525	ERD25TJ153	15k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R526	ERD25TJ153	15k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R527	ERD25TJ682	6.8k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R528	ERD25TJ682	6.8k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R529	ERD25TJ153	15k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R530	ERD25TJ153	15k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R531	ERD25TJ682	6.8k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R532	ERD25TJ682	6.8k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R533	ERD14FJ391	390 $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R534	ERD14FJ391	390 $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R535	ERD14FJ391	390 $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R536	ERD14FJ391	390 $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R537	ERD25TJ682	6.8k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R538	ERD25TJ682	6.8k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R539	ERD25TJ101	100 $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R540	ERD25TJ101	100 $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R541	ERD25TJ393	39k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R542	ERD25TJ393	39k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R543	ERD25TJ182	1.8k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R544	ERD25TJ182	1.8k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R545	ERD25TJ473	47k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R546	ERD25TJ473	47k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R547	ERD25TJ682	6.8k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R548	ERD25TJ682	6.8k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R551	ERD25TJ682	6.8k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R552	ERD25TJ682	6.8k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R553	ERD25TJ473	47k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R554	ERD25TJ473	47k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R555	ERD25TJ223	22k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R556	ERD25TJ223	22k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R557	ERD25TJ332	3.3k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R558	ERD25TJ332	3.3k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R559	ERD25TJ471	470 $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R560	ERD25TJ471	470 $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R561	ERD25TJ224	220k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R562	ERD25TJ224	220k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R563	ERD25TJ103	10k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R564	ERD25TJ103	10k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R565	ERD25TJ123	12k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R566	ERD25TJ123	12k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R567	ERD25TJ223	22k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R568	ERD25TJ223	22k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R569	ERD25TJ124	120k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R570	ERD25TJ124	120k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R571	ERD25TJ824	820k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R572	ERD25TJ824	820k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R573	ERD25TJ102	1k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R574	ERD25TJ102	1k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R575	ERD25TJ823	82k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R576	ERD25TJ823	82k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R577	ERD14TSJ334	330k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R578	ERD14TSJ334	330k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R581	ERD25TJ472	4.7k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R582	ERD25TJ472	4.7k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R583	ERD25TJ224	220k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R584	ERD25TJ224	220k $\Omega$ ,	1/4W,	$\pm 5\%$ ,	Carbon	1	
R585	ERC14GK825	8.2M $\Omega$ ,	1/4W,	$\pm 10\%$ ,	Solid	1	



Ref. No.	Part No.	Part Name & Description				Per Set	Remarks
R586	ERC14GK825	8.2M $\Omega$	1/4W	$\pm 10\%$	Solid	1	
R587	ERC14GK825	8.2M $\Omega$	1/4W	$\pm 10\%$	Solid	1	
R588	ERC14GK825	8.2M $\Omega$	1/4W	$\pm 10\%$	Solid	1	
R589	ERC14GK825	8.2M $\Omega$	1/4W	$\pm 10\%$	Solid	1	
R590	ERC14GK825	8.2M $\Omega$	1/4W	$\pm 10\%$	Solid	1	
R594	ERC14GK825	8.2M $\Omega$	1/4W	$\pm 10\%$	Solid	1	
R595	ERC14GK825	8.2M $\Omega$	1/4W	$\pm 10\%$	Solid	1	
R596	ERC14GK825	8.2M $\Omega$	1/4W	$\pm 10\%$	Solid	1	
R597	ERC14GK825	8.2M $\Omega$	1/4W	$\pm 10\%$	Solid	1	
R601	ERD25TJ564	560k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R602	FRD25TJ564	560k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R603	ERD25TJ122	1.2k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R604	ERD25TJ122	1.2k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R605	ERD25TJ104	100k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R606	ERD25TJ104	100k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R607	ERD25TJ823	82k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R608	ERD25TJ823	82k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R609	ERD25TJ272	2.7k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R610	ERD25TJ821	820 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R611	ERD25TJ153	15k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R612	ERD25TJ153	15k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R613	ERD25TJ333	33k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R614	ERD25TJ153	15k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R615	ERD25TJ473	47k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R616	ERD25TJ473	47k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R617	ERD25TJ104	100k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R618	ERD25TJ104	100k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R619	ERD25TJ392	3.9k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R620	ERD25TJ392	3.9k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R621	ERD14FJ271	270 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R622	ERD14FJ271	270 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R623	ERD25TJ392	3.9k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R624	ERD25TJ392	3.9k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R625	ERD14FJ470	47 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R626	ERD14FJ470	47 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R627	ERD14FJ182	1.8k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R628	ERD14FJ182	1.8k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R629	ERD14FJ271	270 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R630	ERD14FJ271	270 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R631	ERD14FJ681	680 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R632	ERD14FJ681	680 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R633	ERD14FJ471	470 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R634	ERD14FJ471	470 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R635	ERD14FJ270	27 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R636	ERD14FJ270	27 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R637	ERD14FJ331	330 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R638	ERD14FJ331	330 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R639	ERD14FJ392	3.9k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R640	ERD14FJ272	2.7k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R641	ERD14FJ331	330 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R642	ERD14FJ331	330 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R643	ERD14FJ392	3.9k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R644	ERD14FJ272	2.7k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R645	ERD14FJ5R6	5.6 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R646	ERD14FJ220	22 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R647	ERD14FJ101	100 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R648	ERD14FJ101	100 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R649	ERD14FJ101	100 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R650	ERD14FJ101	100 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R651	ERD14FJ5R6	5.6 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	

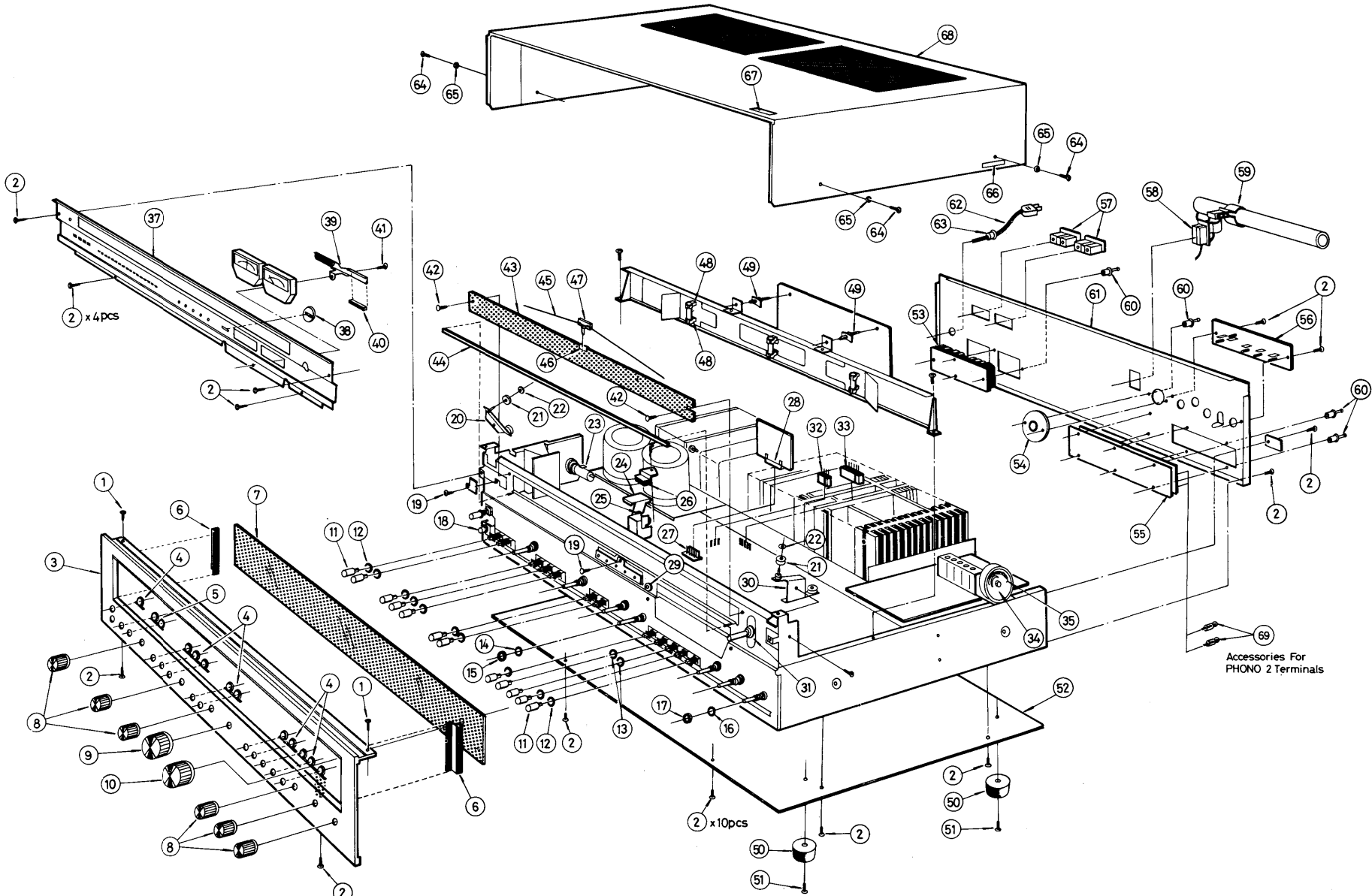
Ref. No.	Part No.	Part Name & Description				Per Set	Remarks
R652	ERD14FJ220	22 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R653	ERD25TJ4R7	4.7 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R654	ERD25TJ4R7	4.7 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R655	ERD25TJ4R7	4.7 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R656	ERD25TJ4R7	4.7 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R657	ERD14FJ391	390 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R658	ERD14FJ391	390 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R659	ERD14FJ391	390 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R660	ERD14FJ391	390 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R661	ERD14FJ391	390 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R662	ERD14FJ391	390 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R663	ERD14FJ391	390 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R664	ERD14FJ391	390 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R665	ERD25TJ4R7	4.7 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R666	ERD25TJ4R7	4.7 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R667	ERD25TJ4R7	4.7 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R668	ERD25TJ4R7	4.7 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R669	ERF5AKR33	0.33 $\Omega$	5W	$\pm 10\%$	Non-Flammable Wire	1	
R670	ERF5AKR33	0.33 $\Omega$	5W	$\pm 10\%$	Non-Flammable Wire	1	
R671	ERF5AKR33	0.33 $\Omega$	5W	$\pm 10\%$	Non-Flammable Wire	1	
R672	ERF5AKR33	0.33 $\Omega$	5W	$\pm 10\%$	Non-Flammable Wire	1	
R673	ERQ3CJ100	10 $\Omega$	3W	$\pm 5\%$	Fuse Type Metallic	1	
R674	ERQ3CJ100	10 $\Omega$	3W	$\pm 5\%$	Fuse Type Metallic	1	
R675	ERX2ANJ3R3	3.3 $\Omega$	2W	$\pm 5\%$	Metallic	1	
R676	ERX2ANJ3R3	3.3 $\Omega$	2W	$\pm 5\%$	Metallic	1	
R677	ERF5AKR33	0.33 $\Omega$	5W	$\pm 10\%$	Non-Flammable Wire	1	
R678	ERF5AKR33	0.33 $\Omega$	5W	$\pm 10\%$	Non-Flammable Wire	1	
R679	ERF5AKR33	0.33 $\Omega$	5W	$\pm 10\%$	Non-Flammable Wire	1	
R680	ERF5AKR33	0.33 $\Omega$	5W	$\pm 10\%$	Non-Flammable Wire	1	
R681	ERG3ANJ471	470 $\Omega$	3W	$\pm 5\%$	Metallic	1	
R682	ERG3ANJ471	470 $\Omega$	3W	$\pm 5\%$	Metallic	1	
R683	ERD14FJ680	68 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R684	ERD14FJ390	39 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R685	ERD12FJ562	5.6k $\Omega$	1/2W	$\pm 5\%$	Carbon	1	
R686	ERD25TJ223	22k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R687	ERD25TJ223	22k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R703	ERD25TJ183	18k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R704	ERD14FJ821	820 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R705	ERD12TSJ103	10k $\Omega$	1/2W	$\pm 5\%$	Carbon	1	
R706	ERD25TJ103	10k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R708	ERF5SJ271	270 $\Omega$	5W	$\pm 5\%$	Non-Flammable Wire	1	
R709	ERD18FJ4R7	4.7 $\Omega$	1/8W	$\pm 5\%$	Carbon	1	
R710	ERG1ANJ331	330 $\Omega$	1W	$\pm 5\%$	Carbon	1	
R711	ERD25TJ151	150 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R712	ERD25TJ393	39k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R713	ERD25TJ103	10k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R714	ERD12TSJ103	10k $\Omega$	1/2W	$\pm 5\%$	Carbon	1	
R715	ERD12FJ472	4.7k $\Omega$	1/2W	$\pm 5\%$	Carbon	1	
R716	ERD14FJ102	1k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R717	ERD14FJ102	1k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R718	ERD18FJ4R7	4.7 $\Omega$	1/8W	$\pm 5\%$	Carbon	1	
R719	ERD25TJ393	39k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R720	ERD25TJ272	2.7k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R721	ERD25TJ183	18k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R723	ERD25TJ333	33k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R724	ERD25TJ333	33k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	

Ref. No.	Part No.	Part Name & Description				Per Set	Remarks
R726	ERG2ANJ122	1.2k $\Omega$	2W	$\pm 5\%$	Metallic	1	
R727	ERD25TJ683	68k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R728	ERD25TJ122	12k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R729	ERD25TJ822	8.2k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R730	ERD25TJ333	33k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R731	ERD25TJ104	100k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R732	ERD25TJ684	680k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R733	ERD25TJ683	68k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R734	ERD25TJ271	270 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R735	ERD25TJ103	10k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R736	ERD25TJ223	22k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R737	ERD25TJ822	8.2k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R738	ERD25TJ184	180k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R739	ERD25TJ333	33k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R740	ERD12FJ472	4.7k $\Omega$	1/2W	$\pm 5\%$	Carbon	1	
R741	ERD12FJ100	10 $\Omega$	1/2W	$\pm 5\%$	Carbon	1	
R742	ERG1ANJ102	1k $\Omega$	1W	$\pm 5\%$	Carbon	1	
R744	ERD12FJ122	1.2k $\Omega$	1/2W	$\pm 5\%$	Carbon	1	
R745	ERD14FJ821	820 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R746	ERD14FJ222	2.2k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R747	ERD14FJ121	120 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R748	ERD14FJ121	120 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R749	ERD25TJ153	15k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R750	ERD14FJ180	18 $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R751	ERD25TJ224	220k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R752	ERD25TJ332	3.3k $\Omega$	1/4W	$\pm 5\%$	Carbon	1	
R801	ERG3ANJ100	10 $\Omega$	3W	$\pm 5\%$	Metallic	1	
R802	ERG3ANJ100	10 $\Omega$	3W	$\pm 5\%$	Metallic	1	
R1001	ERC122GK355	3.3M $\Omega$	1/2W	$\pm 10\%$	Solid	1	
VARIABLE RESISTORS							
VR101, 102	EVLS3AA00B54	50k $\Omega$ (B), Muting & Meter Adjustment				2	
VR103, 104	EVLS3AA00B14	10k $\Omega$ (B), VCO & Separation Adjustment				2	
VR601, 602	EVLS0AA00B15	100k $\Omega$ (B), DC Unbalance Adjustment				2	
VR602, 603	EVLS0AA00B13	1k $\Omega$ (B), Ica Adjustment				2	
VR701	EVLS0AA00B23	2k $\Omega$ (B), Voltage Adjustment				1	
VR501	EWK7RA031252	250k $\Omega$ (BH), Balance Control				1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C614	ECKD2H331KB	330pF, 500WV, ±10%, Ceramic	1	
C615	ECKD1H102KB	0.001μF, 50WV, ±10%, Ceramic	1	
C616	ECKD1H102KB	0.001μF, 50WV, ±10%, Ceramic	1	
C617	ECQM05183KZ	0.018μF, 50WV, ±10%, Polyester	1	
C618	ECQM05183KZ	0.018μF, 50WV, ±10%, Polyester	1	
C619	ECKD2H331KB	330pF, 500WV, ±10%, Ceramic	1	
C620	ECKD2H331KB	330pF, 500WV, ±10%, Ceramic	1	
C621	ECQM05183KZ	0.018μF, 50WV, ±10%, Polyester	1	
C622	ECQM05183KZ	0.018μF, 50WV, ±10%, Polyester	1	
C623	ECCD2H270K	27pF, 500WV, ±10%, Ceramic	1	
C624	ECCD2H270K	27pF, 500WV, ±10%, Ceramic	1	
C625	ECCD2H270K	27pF, 500WV, ±10%, Ceramic	1	
C626	ECCD2H270K	27pF, 500WV, ±10%, Ceramic	1	
C627	ECQM1473KZ	0.047μF, 125WV, ±10%, Polyester	1	
C628	ECQM1473KZ	0.047μF, 125WV, ±10%, Polyester	1	
C629	ECEA25V33V	33μF, 25WV, Electrolytic	1	
C630	ECEA25V33V	33μF, 25WV, Electrolytic	1	
C631	ECEA100V100V	100μF, 100WV, Electrolytic	1	
C632	ECEA100V47V	47μF, 100WV, Electrolytic	1	
C633	ECQM05392JZ	0.0039μF, 50WV, ±5%, Polyester	1	
C634	ECQM05392JZ	0.0039μF, 50WV, ±5%, Polyester	1	
C701	ECQM2104KZ	0.1μF, 500WV, ±10%, Polyester	1	
C702	ECEM80R223Z	22000μF, 80WV, Electrolytic	1	
C703	ECEM80R223Z	22000μF, 80WV, Electrolytic	1	
C704	ECEA63V470V	470μF, 63WV, Electrolytic	1	
C705	ECEA63V470V	470μF, 63WV, Electrolytic	1	
C706	ECEA63V47V	47μF, 63WV, Electrolytic	1	
C707	ECEA63V47V	47μF, 63WV, Electrolytic	1	
C708	ECEA50V47V	47μF, 50WV, Electrolytic	1	
C709	ECEA50V47V	47μF, 50WV, Electrolytic	1	
C710	ECEA25V220V	220μF, 25WV, Electrolytic	1	
C711	ECEA16V33V	33μF, 16WV, Electrolytic	1	
C712	ECEA16V470V	470μF, 16WV, Electrolytic	1	
C713	ECEA50V220V	220μF, 50WV, Electrolytic	1	
C714	ECEA50V220V	220μF, 50WV, Electrolytic	1	
C715	ECKD1H103PF	0.01μF, 50WV, ±100%, Ceramic	1	
C716	ECKD1H103PF	0.01μF, 50WV, ±100%, Ceramic	1	
C717	ECEA16N220V	220μF, 16WV, Non Polar, Electrolytic	1	
C718	ECEA10V100V	100μF, 10WV, Non Polar, Electrolytic	1	
C719	ECEA10V100V	100μF, 10WV, Non Polar, Electrolytic	1	
C720	ECEA25V220V	220μF, 25WV, Electrolytic	1	
C721	ECEA25V220V	220μF, 25WV, Electrolytic	1	
C722	ECEA25V100V	100μF, 25WV, Electrolytic	1	
C723	ECEA16V220V	220μF, 16WV, Electrolytic	1	
C724	ECEA35V100V	100μF, 35WV, Electrolytic	1	
C725	ECEA50V100V	100μF, 50WV, Electrolytic	1	
C726	ECEA50V100V	100μF, 50WV, Electrolytic	1	
C727	ECKD2H103PF	0.01μF, 500WV, ±100%, Ceramic	1	
C728	ECKD2H103PF	0.01μF, 500WV, ±100%, Ceramic	1	
C729	ECKD2H103PF	0.01μF, 500WV, ±100%, Ceramic	1	
C730	ECKD2H103PF	0.01μF, 500WV, ±100%, Ceramic	1	
C731	ECKD1H103PF	0.01μF, 50WV, ±100%, Ceramic	1	
C732	ECKD1H103PF	0.01μF, 50WV, ±100%, Ceramic	1	
C733	ECEA35V220V	220μF, 35WV, Electrolytic	1	
C740	ECKD1H103PF	0.01μF, 50WV, ±100%, Ceramic	1	
C801	ECQM1473M	0.047μF, 125WV, ±20%, Polyester	1	
C802	ECQM1473M	0.047μF, 125WV, ±20%, Polyester	1	
C1001 [M]	ECQU1A103MD	0.01μF, 125VAC, ±20%, Polyester	1	
C1002 [M]	ECQU1A103MD	0.01μF, 125VAC, ±20%, Polyester	1	
C1001 [MC]	ECQW8A103M	0.01μF, 800WV, ±20%, Polyester	1	
C1002 [MC]	ECQW8A103M	0.01μF, 800WV, ±20%, Polyester	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
<b>VARIABLE CAPACITORS</b>				
CV1~CV6 (CT1~CT6)	ECV6MX34X15G	Tuning Gang, FM and AM (with trimmer)	1	
<b>COMPONENT COMBINATIONS</b>				
Z101	EXA5DL04C	FM Detector Circuit	1	
Z703, 704	RXAF103P22HD	0.01μF (X2), Rectifier Circuit	2	
<b>LAMPS</b>				
PL1, 2, 3	XAMR54T	Dial Lamp, (12.6V 0.38A)	3	
PL4	XAMR38S200B	Lamp, Stereo Indicator (6.3V 40mA)	1	
<b>FUSES</b>				
F1	XBAS2A10001	10A Fuse, Primary	1	
F2	XBA1M20NU100	2A Fuse, Dial Lamp	1	
F3, 4	XBA1M10NU100	1A Fuse, Secondary	2	
<b>SWITCHES</b>				
S101, 102, 503, 504, 505	SSH511S	Push Switch, Delay Time, Muting Mode, AF Muting & Loudness	1	
S201	SSR63	Selector Switch, Phono Impedance	1	
S501	SSR61	Selector Switch, Input	1	
S502	SSR59	Selector Switch, Tape Monitor	1	
S506, 507, 508, 509, 510	SSH319S	Push Switch, Turnover & Tone Defeat	1	
S1001	SSHA5760M-1	Push Switch, High & Low Filter	1	
S1002	SSH223S	Push Switch, Power (with Button)	1	
<b>RELAYS</b>				
RLY101	SSY9	Relay, Muting	1	
RLY601	SSY15	Relay, Speaker Protection	1	
<b>METERS</b>				
	SSM77	Meter, Signal	1	
	SSM79	Meter, Tuning	1	
<b>CABINET and CHASSIS PARTS</b>				
1	XTS3+8CFZ	Screw, Panel M'tg	2	
2	XTB3+8BFZ	Screw, Panel, Dial Light Plate & Bottom Board M'tg	22	
3	SYW29	Panel, Front	1	
4	SGX6461	Sleeve, Push Switch Buttons	3-2/3	
5	SGX6455	Sleeve, Push Switch Buttons	1	
6	SGX6457	Ornament, Front Panel	2	
7	SGU17	Glass Plate, Front Panel	1	
8	SBN593	Knob, Bass, Treble Balance, Tape Monitor, Selector & Impedance Switch	6	
9	SBN585-1	Knob, Volume	1	
10	SBN591	Knob, Tuning	1	
11	SBC149	Button, Push Switches	12	
12	SHGA703	Rubber Bushing, Push Switch Buttons	10	

## LOCATION OF CABINET & CHASSIS PARTS



Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
13	SHG1339	Rubber Bushing, Push Switch Buttons	2	
14	XWV8	Spring Washer, Bass, Treble & Volume	3	
15	XNS8	Nut, Bass, Treble & Volume M'tg	3	
16	XWV7	Spring Washer, Balance, Tape Monitor, Selector & Impedance Switch	4	
17	XNS7	Nut, Balance, Tape Monitor, Selector & Phono Impedance Switch M'tg	4	
18	XCJ6N11B-A	Jack, Headphones	1	
19	SHRA919	Clip, Indicator P. C. B. M'tg	2	
20	SXE721	Shaft, Dial Pulley Ass'y	1	
21	RDR20	Pulley, Dial Cord	4	
22	RNW150-2	Lock Washer, Pulley	4	
23	QTF1046	Holder, Fuse	1	
24	SBM9007	Metal Clamp, Relay M'tg	1	
25	SBM33	Magnet	2	
26	SHG1349	Rubber Cushion, Relay	1	
27	SJT331	Pin Clamp, Protection P. C. B.	1	
28	SJS6601	Socket, P. C. B. Connector	5	
29	SHGA204	Rubber Bracket, Stereo Indicator	1	
30	SXE719	Shaft, Dial Pulley Ass'y	1	
31	SDT8009-1	Shaft, Tuning	1	
	SDX753S	Flywheel, Tuning	1	
	XXAS3K6S	Screw, Flywheel M'tg	2	
32	SJS5307	Socket, 3 pcs. Lead Wire	4	
33	SJS5505	Socket, 5 pcs. Lead Wire	4	
	SJS5603	Socket, 6 pcs. Lead Wire	4	
34	SDD47-1	Drum, Dial Cord	1	
35	SDS4121	Spring, Dial Cord	1	
37	SDH329	Plate, Dial Light & Meter M'tg	1	
38	SGL51	Orange Filter, Stereo Indicator	1	
39	SMMA10-2	Bracket, Meter	1	
40	RHG109	Rubber Cushion, Meter	2	
41	XTV3+6C	Screw, Meter Bracket M'tg	1	
42	SHRA916-1	Clip, Dial Scale M'tg	2	
43	SKD2610	Scale, Dial	1	
44	SUM11	Bracket, Dial Scale	1	
45	SDZ051-1	Cord, Dial 90-5/8" (230cm)	1 roll	
46	SHPA4	Paper, Dial Pointer Slide	1	
47	SDP1099	Pointer, Dial	1	
48	RJF107-2	Holder, Dial Lamp	6	
49	SHRA2	Spacer, Drive Amplifier P.C.B. M'tg	2	
50	SKX219-1	Foot, Bottom Board	4	
51	XTV3+16C	Screw, Foot M'tg	4	
52	SKU5810	Bottom Board	1	
53	SJF5801	Terminal, Speakers	1	
54	SJF3101	Terminal, 4ch. MPX Output	1	
55	SJF3017	Terminal, Input & Tape Deck	1	
56	SJF4503	Terminal, Antenna	1	
58	SMA207	Holder, AM Antenna Coil	1	
59	SMA205	Holder, AM Antenna Coil	1	
60	SHR401-1	Clip, Terminal & P. C. B. M'tg	12	
61 [M]	SGP350A	Rear Panel, Set for America [M]	1	
61 [MC]	SGP350B	Rear Panel, Set for Canada [MC]	1	
63	SHRA108	Bushing, AC Cord	1	
64	XTB4+12FFZ	Screw, Cabinet M'tg	4	
65	XWG5FZ	Washer, Cabinet Screw	4	
66	SQXA4112	Label, Caution	1	
67	QQC1045	Label, Cabinet	1	
68	SKA8290W	Cabinet, Simulated Wood	1	
69	SJPA11	Short Pin, PHONO 2 Terminal Accessory	2	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
<b>ACCESSORY</b>				
A1	SSA251	Cord, 75Ω FM Antenna	1	
<b>PACKING PARTS</b>				
P1	SPP491	Soft Cover	1	
P2	SPHA6008	Polyethylene Sheet, Set	1	
P3	SPS523	Pad, Left & Right Side	2	
P4	SPS411	Pad, Right Side	1	
P5	SPS409	Pad, Left Side	1	
P6 [M]	SPG671	Carton Box, Inner, Set for America [M]	1	
P6 [MC]	SPG703	Carton Box, Inner, Set for Canada [MC]	1	
P7 [M]	SPG849	Carton Box, Outer, Set for America [M]	1	
P7 [MC]	SPG851	Carton Box, Outer, Set for Canada [MC]	1	
P8 [M]	SQF1177	Printed Matter, Set for America [M]	1	
P8 [MC]	SQF1241	Printed Matter, Set for Canada [MC]	1	
P9	SPS661	Pad, Carton Box	2	

## PACKINGS

