



SANYO

211

SANYO TRANSWORLD 6-BAND PORTABLE RADIO RP 8550 SERVICE MANUAL



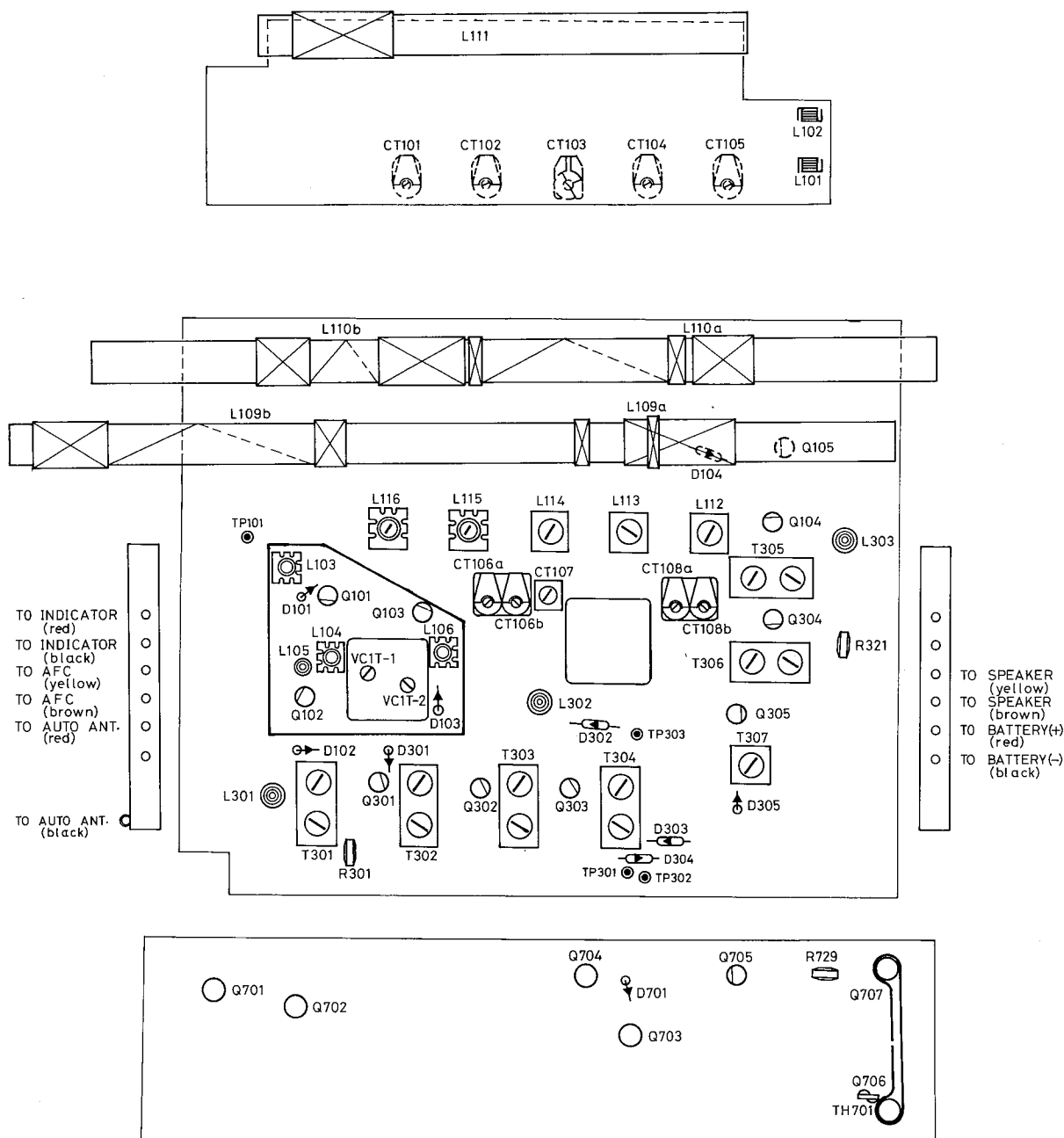
A PRODUCT OF SANYO ELECTRIC CO., LTD.

SPECIFICATIONS

Frequency Range	FM	87.5 - 108	MHz
	SW 1	2.3 - 7.3	MHz
	SW 2	8.0 - 22.0	MHz
	49m	5.95 - 6.2	MHz
	MW	510 - 1605	KHz
	LW	150 - 350	KHz
Intermediate Frequency	FM	10.7	MHz
	AM	455	KHz
Transistors: 18	Q101	2SC688E, FM RF Amplifier	
	Q102	2SC668C, FM Mixer	
	Q103	2SC930D, FM Local Oscillator	
	Q104	2SC930D, AM Mixer	
	Q105	2SC930D, Local Oscillator	
	Q301	2SC930E, FM 1st IF Amplifier	
	Q302	2SC930D, FM 2nd IF Amplifier	
	Q303	2SC930D, FM 3rd IF Amplifier	
	Q304	2SC930E, AM 1st IF Amplifier	
	Q305	2SC930D, AM 2nd IF Amplifier	
	Q701	2SD187 (R or Y), Squelch	
	Q702	2SB303 (R or Y), Audio Amplifier	
	Q703	2SB186A, Audio Amplifier	
	Q704	2SB187 (R or Br), Voltage Stabilizer	
	Q705	2SC537 (E or F), Driver	
	Q706	2SD72R (Y or Gr), Power Amplifier	
	Q707	2SB405R (Y or Gr), Power Amplifier	

Diodes: 13	Q708	2SB492 (Y or Gr), Regulator	
	D101	DS442, Q101 Protactor	
	D102	1S188FM, FM Over Load	
	D103	1S553, AFC	
	D104	DS442, Voltage Stabilizer	
	D301	DS442, FM Limiter	
	D302	1S188AM, FM Meter	
	D303	1S188FM, FM Discriminator	
	D304	1S188FM, FM Discriminator	
	D305	1S188AM, AM Detector	
	D701	WZ075, Line Stabilizer	
	D702	WZ120, Line Stabilizer	
	D703	DS131A, Rectifier	
	D704	DS132A, Rectifier	
Output Powers	Maximum	3,000 mW	
	Undistorted	2,000 mW	
Power Supply	12 volts, 8xUM-1 (size "D" flashlight battery)		
	or 120/240 volts a.c.		
Current Drain	No signal	50 mA	
	Maximum	420 mA	
Speaker	5" x 7" oval type permanent dynamic		
	4 ohm voice coil impedance		
Cabinet Dimensions	15 1/4" (390mm) wide x 9 1/2" (240mm) high		
	x 4 3/4" (240mm) deep		
Net Weight	Approx. 10 lbs. (4.5 kg)		

MAIN PARTS LOCATION



GENERAL ALIGNMENT CONDITIONS

1. The position of volume control is at maximum position.
2. Signal input must be kept as low as possible to avoid overload.
3. Use an output meter of the highest possible sensitivity.
4. Standard modulation is 400 Hz at 30% amplitude (for AM) and 22.5 kHz deviation (for FM).

— Band selector switch in MW position.

Step	Connection of Signal Gen.	Input Signal Frequency	Dial Setting of Radio	Connection of Output Meter	Adjust for maximum output
1	Loop Antenna	455 kHz	Lowest End	Across Speaker	IFT T305, 306, 307

— Band selector switch in MW position

1	Same	505 kHz	Lowest End	Same	Osc. Coil L113
2	Same	1650 kHz	Highest End	Same	Osc. Trim CT108a
3	Same	600 kHz	600 kHz	Same	Ant. Coil L109b
4	Same	1400 kHz	1400 kHz	Same	Ant. Trim CT104

Repeat steps 1 thru 4 to obtain maximum sensitivity.

— Band selector switch in LW position

Step	Connection of Signal Gen.	Input Signal Frequency	Dial Setting of Radio	Connection of Output Meter	Adjust for maximum output
1	Loop Antenna	145 kHz	Lowest End	Across Speaker	Osc. Coil L112
2	Same	365 kHz	Highest End	Same	Osc. Trim CT108b
3	Same	160 kHz	160 kHz	Same	Ant. Coil L109a
4	Same	340 kHz	340 kHz	Same	Ant. Trim CT105

Repeat steps 1 thru 4 to obtain maximum sensitivity.

— Band selector switch in SW1 position

Step	Connection of Signal Gen.	Input Signal Frequency	Dial Setting of Radio	Connection of Output Meter	Adjust for maximum output
1	Loop Antenna	2.21 MHz	Lowest End	Across Speaker	Osc. Coil L114
2	Same	7.48 MHz	Highest End	Same	Osc. Trim CT107
3	Same	2.50 MHz	2.50 MHz	Same	Ant. Coil L110a
4	Same	6.50 MHz	6.50 MHz	Same	Ant. Trim CT103

Repeat steps 1 thru 4 to obtain maximum sensitivity.

— Band selector switch in SW2 position

5	Loop Antenna	7.75 MHz	Lowest End	Same	Osc. Coil L115
6	Same	22.7 MHz	Highest End	Same	Osc. Trim. CT106b
7	Same	8.5 MHz	8.5 MHz	Same	Ant. Coil L111
8	Same	21.0 MHz	21.0 MHz	Same	Ant. Trim. CT102

Repeat steps 5 thru 8 to obtain maximum sensitivity.

— Band selector switch in 49M position

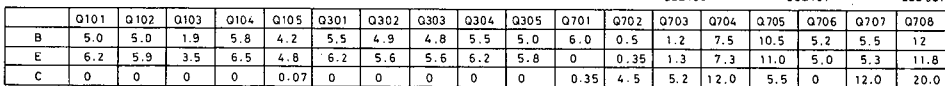
9	Loop Antenna	5.925 MHz	Lowest End	Same	Osc. Coil L116
10	Same	6.225 MHz	Highest End	Same	Osc. Trim. CT106a
11	Same	5.95 MHz	5.95 MHz	Same	Ant. Coil L110b
12	Same	6.20 MHz	6.20 MHz	Same	Ant. Trim. CT101

Repeat steps 9 thru 12 to obtain maximum sensitivity.

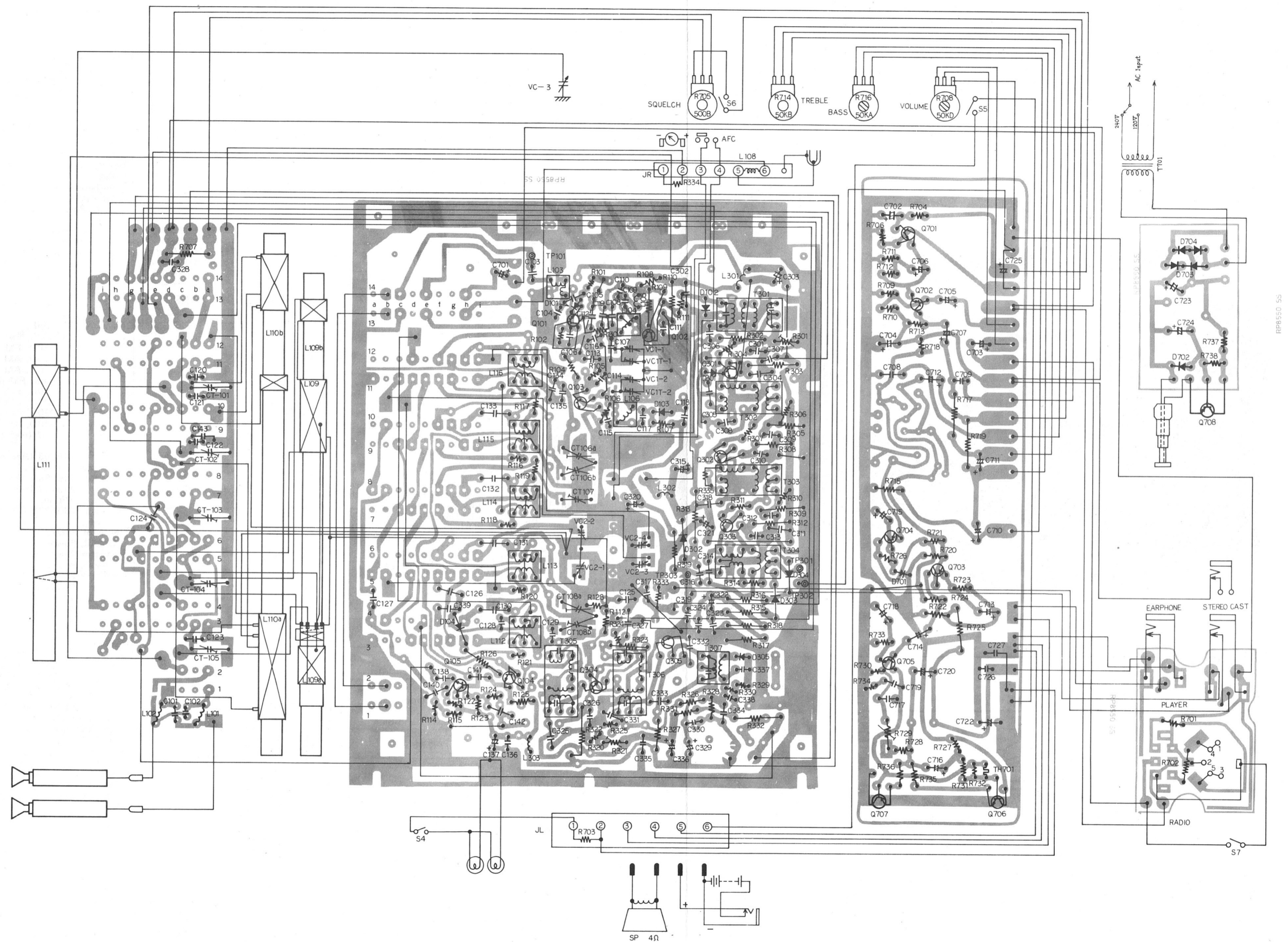
— Band Selector switch in FM position

Step	Connection of Signal Gen.	Input Signal Frequency	Dial Setting of Radio	Connection of Meter or Oscilloscope	Adjust	Remarks
1	Connect Sweep Marker Generator to TP101, Shield case	10.7 MHz	Lowest End	Connect scope input cable thru network to TP301, TP302	IFT T301,T302, T303,T304	Adjust for maximum sensitivity with symmetrical curve.
2	Same	10.7 MHz	Lowest End	Connect scope input cable thru network to TP303, TP302.	IFT T304	Adjust for symmetrical "S" curve.
3	Connect Signal Generator to TP101, Shield case	86.8 MHz	Lowest End	Connect V.T.V.M. across speaker.	Osc. Coil L106	Adjust for maximum
4	Same	109.0 MHz	Highest End	Same	Osc. Trimmer VC1T-2	Same
5	Same	90.0 MHz	90 MHz	Same	RF Coil L104 Ant. Coil L103	Same
6	Same	106.0 MHz	106 MHz	Same	RF Trimmer VC1T-1	Same

Repeat steps 1 thru 6 to obtain maximum sensitivity.

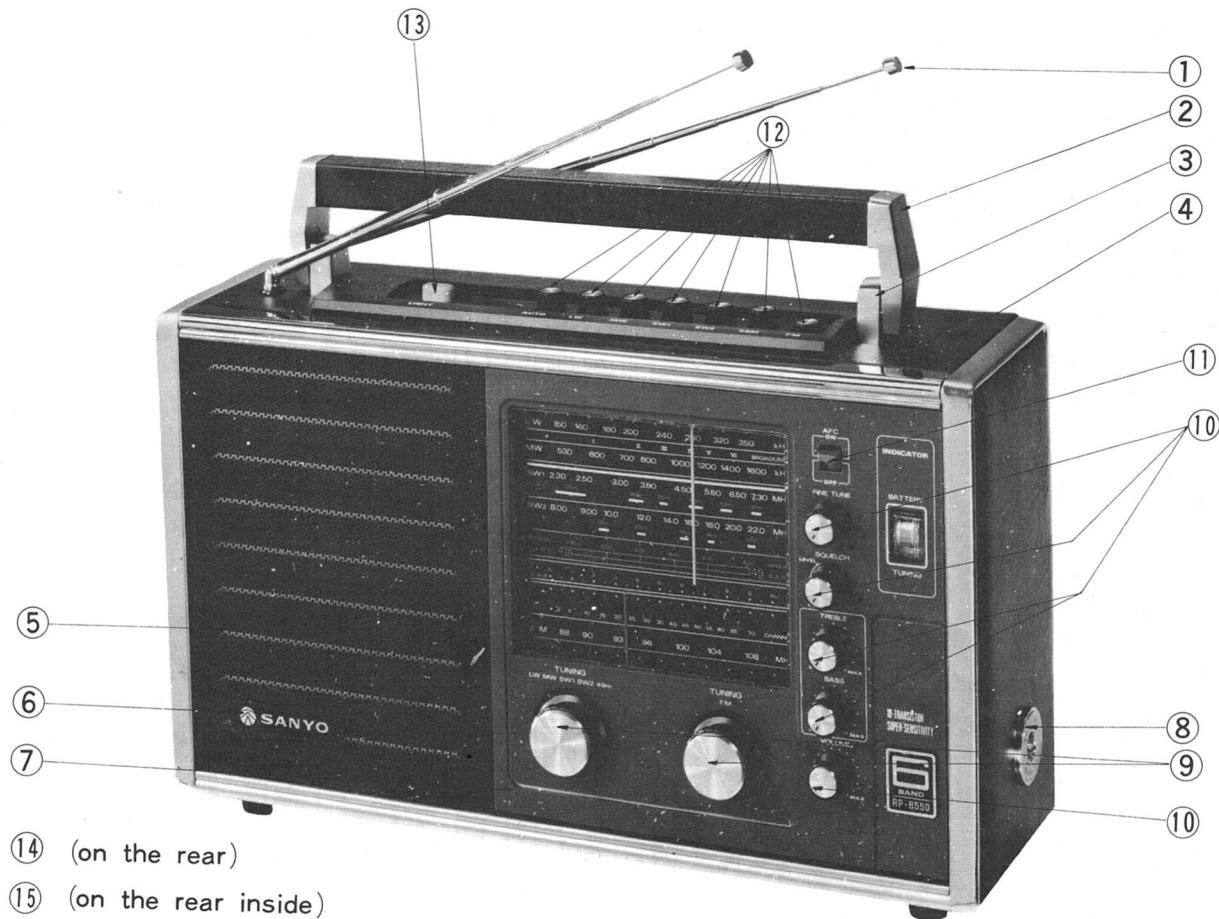


	Q701	Q702
SG ON	6.1	0.5
	6.3	1.2
	1.2	6.5

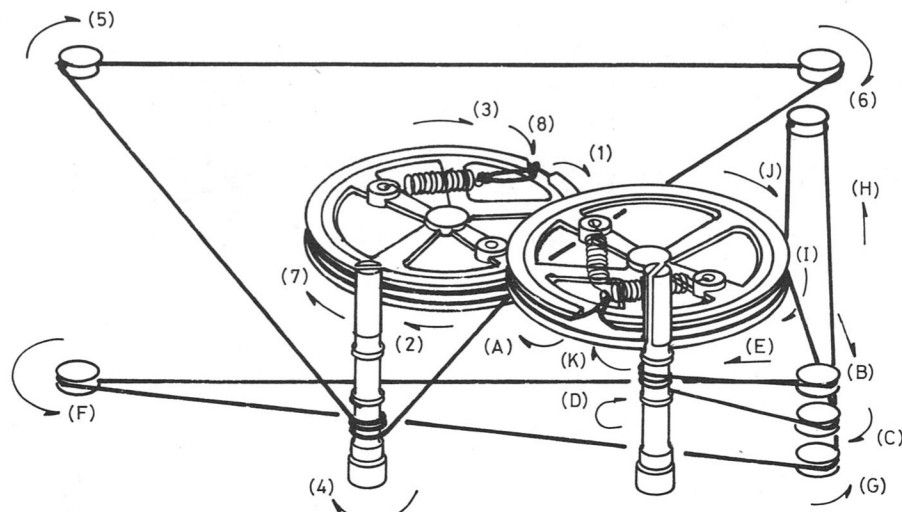


Key No.	Part No.	Description
CABINET PARTS IDENTIFICATION		
1	4-244R-187	Telescopic Rod Antenna
2	123-0-171R-102	Handle Assembly
3	123-2-271R-109	Metal Mount, Handle mtg.
4	141-0-111T-21999	Cabinet Assembly
5	123-2-151R-18701	Decorative Panel, Speaker Grillee
6	123-2-142R-251	Badge, SANYO
7	141-0-122T-10899	Front Panel Assembly
8	123-2-153R-120	Plastic Mount, AUTO ANT
	123-2-153R-104	Marking Metal, AUTO ANT

Key No.	Part No.	Description
CABINET PARTS IDENTIFICATION		
9	141-0-163T-080	Rotary Knob, TUNING
10	141-0-163T-065	Rotary Knob
11	4-231R-145	Slide Switch with Knob, AFC
12	141-2-164T-106	Slide Knob, AFC
13	141-2-161T-025	Push Button Assembly (7 used)
13	141-2-161T-227	Push Button, LIGHT
14	141-2-133T-077	Compartment Lid (on the rear)
15	123-2-331R-10100	Battery Holder (on the rear inside)



DIAL CORD STRINGING



PARTS LIST

Schematic Location	Part No.	Description	Q'ty
PACKING			
	141-6-411T-58300	Instruction Book	1
	141-6-141T-05500	Individual Carton	1
	141-6-144T-21100	Pad, Right Side	1
	141-6-144T-21200	Pad, Left Side	1
	123-6-453R-00100	Serial Number Sheet	2
	123-6-472R-29201	Label "SS"	1
	123-2-332R-10100	Battery Sleeve, UM1 x 2	2
	123-2-332R-10700	Battery Sleeve, UM1 x 3	2
		Polyethylene Bag, 550x600x0.05mm	1
		Polyethylene Bag, 100x100x0.05mm	1
		Top Pad, 150x300mm	1
		Pad, Handle 260x200x1.5mm	1
	141-6-472T-05603	Caution Label	1
CABINET			
	141-0-111T-21999	Cabinet Assembly	1
	141-0-122T-10899	Front Panel Assembly	1
	123-2-153R-12000	Plastic Mount, AUTO ANT. Jack mtg.	1
	123-2-153R-10400	Marking Metal, AUTO ANT.	1
	123-2-122R-10900	Plastic Lining, Speaker Grille	1
	123-2-151R-18701	Decorative Panel, Speaker	1
	141-2-246T-07400	Adhesive Sheet, Plastic Lining mtg.	1
	141-2-133T-07700	Compartment Lid	1
	123-2-142R-25100	Badge, SANYO	1
	123-2-445R-11700	Rubber Cushion, Indicator	1
	141-2-164T-10600	Slide Knob, AFC	1
	141-2-365T-26900	Bracket Switch	1
	123-0-171R-10200	Handle Assembly	1
	123-2-271R-10900	Metal Mount, Handle mtg.	2
	123-2-453R-10100	Plastic Washer, Handle mtg.	2
	123-2-483R-10400	Plate Spring, Metal mtg.	2
	123-2-316R-10300	Metal Mount, Lower	1
	123-2-316R-10100	Metal Mount, Upper	1
	141-2-417T-14200	Stud Nut, Metal Mount	2
	141-2-161T-22700	Push Button, Light	1
	141-2-851T-67300	Spring coil, Push Button Light	1
	141-0-163T-06500	Rotary Knob Assembly, VOLUME/TREBLE BASS/SQUELCH/FINE TUNING	5
	141-0-163T-08000	Rotary Knob, TUNING (AM/FM)	2
	141-0-511T-00900	Pointer Assembly, AM	1
	141-0-511T-01000	Pointer Assembly, FM	1
	141-2-143T-17303	Marking Plate, 120/240V	1
	123-2-331R-10100	Battery Holder	1
	141-6-479T-08800	Label, Voltage Selector & Caution	1
	141-2-457T-05300	Special Washer, Front Panel-Cabinet	2
CHASSIS			
	123-2-311R-10300	Chassis, Main	1
	123-2-311R-10200	Chassis, Left Hand Side (VOLUME)	1
	123-2-311R-10100	Chassis, Right Hand Side	1
	141-2-528T-00300	Rail, AM Pointer	1
	141-2-528T-00400	Rail, FM Pointer	1
	141-2-146T-03800	Dial Scale	1
	141-2-367T-25500	Bracket Socket, DIN	1
	123-2-538R-10102	Drum, FM	1
	123-2-538R-10101	Drum, AM	1
	141-0-161T-02500	Push Button Assembly MW/LW/SW1/SW2/49M/FM/AUTO	7
	141-2-461T-22300	Pipe, P.C.B. mtg.	1
	123-0-566R-10100	Tuning Shaft Assembly	2
	141-2-567T-00900	Pulley Shaft, FM	1
	123-2-481R-01000	Spring Coil	2
	123-2-455R-00200	Rubber Cushion, Tuning Capacitor mtg.	2
	141-2-661T-16000	Pulley	7

Schematic Location	Part No.	Description	Q'ty
CHASSIS			
	123-2-567R-10900	Pulley Shaft, AM Dial Cord, Tetron 0.3x1500mm (AM)	3
		Dial Cord, Tetron 0.3x1200mm (FM)	1
	123-2-369R-10500	Bracket Coil, Antenna Core mtg.	2
		Rubber Cushion 10x32x1mm Ant. Core	2
	123-2-374R-10100	Bracket, Pilot Lamp	2
	141-2-365T-27100	Bracket Switch, Pilot Lamp	1
	141-2-567T-01200	Pulley Shaft, FM	1
	141-2-411T-06400	Plate Nut, STEREO OUT Socket	1
	123-2-311R-20400	Chassis, Power Transformer mtg.	1
	123-2-417R-15100	Stud Nut, Power Supply P.C.B. mtg.	1
	141-2-464T-16200	Fixer, Transistor (Q708) mtg.	1
	141-2-464T-11800	Fixer, Power Cord mtg.	1
	141-2-445T-15200	Rubber Cushion, DC Cord mtg.	1
SEMICONDUCTORS			
Q101		Transistor 2SC668E, FM RF	1
Q102		Transistor 2SC668C, FM MIX	1
Q103		Transistor 2SC930D, FM OSC	1
Q104		Transistor 2SC930D, AM MIX	1
Q105		Transistor 2SC930D, AM OSC	1
Q301		Transistor 2SC930E, FM IF	1
Q302		Transistor 2SC930D, FM IF	1
Q303		Transistor 2SC930D, FM IF	1
Q304		Transistor 2SC930E, AM IF	1
Q305		Transistor 2SC930D, AM IF	1
Q701		Transistor 2SD187 (Red or Yellow), SQ	1
Q702		Transistor 2SB303 (Red or Yellow), Pre Amp.	1
Q703		Transistor 2SB186A, AF	1
Q704		Transistor 2SB187 (Red or Brown), Ripple	1
Q705		Transistor 2SC537E or F, Driver	1
Q706		Transistor 2SD72R (Yellow or Green), Power	1
Q707		Transistor 2SB405R (Yellow or Green), Power	1
Q708		Transistor 2SB492 (Yellow or Green), Regulator	1
D101		Diode DS442, Q101, Protector	1
D102		Diode 1S188FM, FM OVER LOAD	1
D103		Diode 1S553, AFC	1
D104		Diode DS442, VOLTAGE STABILIZER	1
D301		Diode DS442, FM LIMITER	1
D302		Diode 1S188AM, FM METER	1
D303		Diode 1S188FM, FM DIS-CRIMINATOR	1
D304		Diode 1S188FM, FM DIS-CRIMINATOR	1
D305		Diode 1S188AM, AM DETECTOR	1
D701		Diode WZ075, LINE STABILIZER	1
D702		Diode WZ120, LINE STABILIZER	1
D703		Diode DS131A, RECTIFIER	1
D704		Diode DS132A, RECTIFIER	1
TH701		Thermistor SDT06	1
COILS			
L101	4-265R-01300	VHF Coil, 3-1/2 turns, FM	2
L102			
L103	4-257R-10800	Antenna Coil, FM	1
L104	4-259R-12300	RF Coil, FM	1

- NOTES: 1. Part orders must contain Model Number, Part Number and Description.
2. Unless otherwise noted, component parts indicated by parentheses in the column Q'ty are not available.
3. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

PARTS LIST

Schematic Location	Part No.	Description	Q'ty
COILS			
L105	4-253R-10200	RF Choke Coil, 1 μ H, FM IF Trap	1
L106	4-258R-21400	Oscillator Coil, FM	1
L107	4-253R-10300	RF Choke Coil, 1.5mH, Line	1
L108	4-253R-10310 or 4-253R-10400 or 4-253R-10410	RF Choke Coil, 500 μ H, Auto Antenna	1
L109	4-257R-10601	Antenna Coil Assembly, MW & LW	1
L110	4-257R-10701	Antenna Coil Assembly, SW1 & 49M	1
L111	4-257R-10900	Antenna Coil, SW2	1
L112	4-258R-00600	Oscillator Coil, LW	1
L113	4-258R-10730	Oscillator Coil, MW	1
L114	4-258R-10800	Oscillator Coil, SW1	1
L115	4-258R-10900	Oscillator Coil, SW2	1
L116	4-258R-11000	Oscillator Coil, 49M	1
L301,302,303	4-253R-10300 or 4-253R-10310	RF Choke Coil, 1.5mH, Line	3
TRANSFORMERS			
T301	4-256R-80300	IF Transformer, FM (Brown Core)	1
T302	4-256R-80400	IF Transformer, FM (Green Core)	1
T303	4-256R-80500	IF Transformer, FM (Blue Core)	1
T304	4-256R-80600	IF Transformer, FM (Red Core)	1
T305	4-256R-80100	IF Transformer, AM (Yellow Core)	1
T306	4-256R-80200	IF Transformer, AM (White Core)	1
T307	4-256R-11000	IF Transformer, AM (Black Core)	1
T701	4-251R-10571	Power Transformer, AC 120/220V	1
CONTROLS			
R708,S5	4-222T-38700	Variable Resistor, 50K Ω D, Volume	1
R714	4-222T-38900	Variable Resistor, 50K Ω B, Treble	1
R716	4-222T-39000	Variable Resistor, 50K Ω A, Bass	1
R705	4-222T-38800	Variable Resistor, 500 Ω B, Squelch	1
R301,321	4-222T-00600	Semi-fixed Resistor, 100K Ω	2
R729	4-224R-00200	Semi-fixed Resistor, 10K Ω	1
VC2-1,2,3,4	4-224R-06200	Tuning Capacitor, AM	1
VC1-1,2,1T-1,2	4-224R-31600	Tuning Capacitor, FM	1
VC-3	4-224T-05471	Fine Tuning Capacitor	1
CT103	4-224R-01300	Trimmer, SW1 Antenna Stage	1
CT106,108	4-224R-11800	Trimmer, AM Oscillator Stage	1
CT107	4-224R-11600	Trimmer, SW1 Oscillator Stage	1
CT101,102,104	4-224R-01400	Trimmer, AM Antenna Stage	3
CT105	4-224R-01600	Trimmer, LW Antenna Stage	1
RESISTORS			
All resistors are of carbon, $\pm 10\%$ and $\frac{1}{4}W$ unless otherwise specified.			
R118,722	R-R100K	10 ohm	2
R119	R-R150K	15 ohm	1
R718	R-R220K	22 ohm	1
R116,121	R-R270K	27 ohm	2
R120,130,703	R-R560K	56 ohm	3
R111,117,126,307,711,733	R-R101K	100 ohm	6
R727	R-R121K	120 ohm	1

Schematic Location	Part No.	Description	Q'ty
RESISTORS			
R311	R-R151K	150 ohm	1
R304,329	R-R221K	220 ohm	2
R314,707	R-R271K	270 ohm	2
R731	R-R391K	390 ohm	1
R334,712	R-R471K	470 ohm	2
R327,715,723	R-R561K	560 ohm	3
R328,725,734	R-R821K	820 ohm	3
R101,308,312,315,316	R-R102K	1K ohm	5
R326	R-R122K	1.2K ohm	1
R324	R-R152K	1.5K ohm	1
R738	R-R182K	1.8K ohm	1
R108,110,302,717	R-R222K	2.2K ohm	4
R125	R-R272K	2.7K ohm	1
R122,330,333,704,724	R-R332K	3.3K ohm	5
R706,713,726	R-R392K	3.9K ohm	3
R317,318,325,332,709,730	R-R562K	5.6K ohm	6
R104,109,313	R-R682K	6.8K ohm	3
R106,115,306,310,331,702,728	R-R103K	10K ohm	7
R123,335	R-R183K	18K ohm	2
R305,309,719	R-R223K	22K ohm	3
R124	R-R273K	27K ohm	1
R112,320	R-R393K	39K ohm	2
R114	R-R563K	56K ohm	1
R323,710	R-R823K	82K ohm	2
R107,319,701,720	R-R104K	100K ohm	4
R105,721	R-R474K	470K ohm	2
R102,128	R-R105K	1M ohm	2
R303,322	R-R202J	2K ohm $\pm 5\%$ $\frac{1}{4}W$	2
R732	R-R910J	91 ohm $\pm 5\%$ $\frac{1}{4}W$	1
R735,736	R-R0R5J	0.5 ohm $\pm 5\%$ $\frac{1}{2}W$	2
R737	R-R2R4J	2.4 ohm $\pm 5\%$ 1W	1
CAPACITORS			
All capacitors 50V, unless otherwise specified.			
C305	R-CKD1N5C	Ceramic 1.5pF $\pm 0.25pF$	1
C333	R-CKD020C	Ceramic 2pF $\pm 0.25pF$	1
C108,115,119	R-CKD030C	Ceramic 3pF $\pm 0.25pF$	3
C116,128,316	R-CKD040C	Ceramic 4pF $\pm 0.25pF$	3
C117	R-CKD060C	Ceramic 6pF $\pm 0.25pF$	1
C122,143	R-CKD060D	Ceramic 6pF $\pm 0.5pF$	1
C121	R-CKD080K	Ceramic 8pF $\pm 10\%$	1
C107,135	R-CKD120K	Ceramic 12pF $\pm 10\%$	2
C123	R-CKD160K	Ceramic 16pF $\pm 10\%$	1
C101,102,110	R-CKD200K	Ceramic 20pF $\pm 10\%$	3
C104,314	R-CKD300K	Ceramic 30pF $\pm 10\%$	2
C126,140	R-CKD500K	Ceramic 50pF $\pm 10\%$	1
C129	R-CKD650J	Ceramic 65pF $\pm 5\%$	1
C103	R-CKD800K	Ceramic 80pF $\pm 10\%$	1
C105	R-CKD101M	Ceramic 100pF $\pm 20\%$	1
C120,134	R-CKD101J	Ceramic 100pF $\pm 5\%$	2
C109	R-CKD201K	Ceramic 200pF $\pm 10\%$	1
C319	R-CKD221M	Ceramic 220pF $\pm 20\%$	1
C106,111,114,323,324	R-CKD102Z	Ceramic 0.001mfd $\pm 80,-20\%$	5
C709	R-CKD392M	Ceramic 0.0039mfd $\pm 20\%$	1

NOTES: 1. Part orders must contain Model Number, Part Number and Description.

2. Unless otherwise noted, component parts indicated by parentheses in the column Q'ty are not available.

3. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

PARTS LIST

Schematic Location	Part No.	Description	Q'ty
CAPACITORS			
C138,317 337,338 717	R-CKD472M	Ceramic 0.0047mfd $\pm 20\%$	5
C112,113 313,328	R-CKD103Z	Ceramic 0.01 mfd +80,-20%	4
C726,727	R-CKD203Z	Ceramic 0.02mfd +80,-20%	2
C118,136 142,301 302,304 306,307 308,309 310,311 312,318 325,326 327,330 331,332 335	R-CKD403Z	Ceramic 0.04mfd +80,-20%	21
C710,711	R-CKD104M	Ceramic 0.1mfd $\pm 20\%$, 12V	2
C124,125 708	R-CQS103Z	Mylar 0.01mfd $\pm 20\%$	3
C127,141 339	R-CQS223Z	Mylar 0.022mfd $\pm 20\%$	3
C719	R-CQS473Z	Mylar 0.047mfd $\pm 20\%$	1
C130	R-CQT161J	Styrol 165pF $\pm 5\%$, 125V	1
C131	R-CQT291J	Styrol 290pF $\pm 5\%$, 125V	1
C132	R-CQT122K	Styrol 1200pF $\pm 10\%$, 125V	1
C133	R-CQT432K	Styrol 4300pF $\pm 10\%$, 125V	1
C702,703	R-C9203	Electrolytic 1mfd $\pm 10V$	2
C315,322 701	R-C9882	Electrolytic 4.7mfd 6.3V	3
C137,303 320,321 329,705 707,712 714,715	R-C9244	Electrolytic 10mfd 10V	10
C334,336	R-C9881	Electrolytic 33mfd 6.3V	2
C706,725	R-C9828	Electrolytic 47mfd 6.3V	2
C713,716	R-C9808	Electrolytic 100mfd 6.3V	2
C718	R-C9875	Electrolytic 220mfd 6.3V	1
C723	R-C9222	Electrolytic 220mfd 25V	1
C704	R-C9900	Electrolytic 470 mfd 10V	1
C722,724	R-C9874	Electrolytic 470mfd 10V	2
C720	R-C9854	Electrolytic 1000mfd 10V	1

Schematic Location	Part No.	Description	Q'ty
MISCELLANEOUS			
	4-226R-369991	P.C.B. Assembly, Main	1
	4-226R-108991	P.C.B. Assembly, Band Switch	1
	4-226R-10799	P.C.B. Assembly, AF	1
	4-226R-143992	P.C.B. Assembly, Power Supply	1
	4-226T-68799	P.C.B. Assembly, Radio/Player/ DIN	1
	4-152R-02300 or 4-152R-10801	Earphone	1
	4-151R-10400	Speaker, 5" x 7", 4 Ω 4W	1
	4-612R-11300	Pilot Lamp, 9V 30mA	1
	4-612R-11395	Pilot Lamp, 9V 30mA	1
	4-511R-10900	Indicator, Tuning/Battery Meter	1
S1	123-2-472R-10400	Core, AM Osc. Mix. FM Osc.	3
	4-231R-60200	Push Button Switch, Band Selector	1
S2	4-231R-14500	Slide Switch, AFC	1
S3	4-231R-14900	Slide Switch, Radio/Player	1
S4	4-231T-37100	Spring Switch, Dial Light	1
	4-244R-18700	Telescopic Rod Antenna	2
	4-235T-14200	Jack, DIN 5P, Player/Tape Rec.	1
	4-235R-02400	Jack, AUTO Ant.	1
	4-235T-05500	Jack, EXT SP, STEREO OUT, 3.5mm	2
	4-235R-15771	Jack, STEREO OUT, 2.8mm	1
	4-243R-50201	Extension Antenna Lead, w/rubber cup	2
	4-237T-06700	Terminal Board 6P	2
	141-2-411T-06400	Plate Nut, STEREO OUT	1
	123-2-368R-10100	Heat Sink, 2SB405 mtg.	1
	141-2-368T-01400	Heat Sink, 2SB492 mtg.	1
	141-2-327T-02300	Insulator, Mylar	1
	141-2-327T-02400	Insulator, Rubber	1
	4-235R-11801	Power Socket Assembly, Germany Style	1
	123-2-474R-00200	Tip-plug, Batt., Ant., AFC, Meter, etc.	14
	4-235R-10200	Socket, DC (AC Adaptor)/ Battery	1
	4-235T-14600	Socket, AC 120/220V	1
	4-236T-03800	Plug, AC 120/220V	1
	141-2-351T-03200	Bracket Mounting, Transistor mtg.	2
	4-236R-10200	DC Plug, 400mm	1
	4-243R-00191	Power Cord, 1800mm, 250V 6A	1
	123-2-336R-15501	Terminal Battery, (-)	3
	123-2-336R-22600	Terminal Battery, (+)	3
	123-2-382R-00291	Terminal, Test point	6
	123-2-382R-14700	Terminal, Power Cord mtg.	1
	123-2-322R-10100	Shield Plate, FM Tuner	1
	123-2-472R-10900	Lug, Rod Antenna	2

Service Stations EUROPE: Name + address of nearest agent or Service Station in Europe countries may be obtained from: SANYO "Servicecenter", P.O. Box CH-4001 Basel/Switzerland.

SANYO ELECTRIC TRADING CO., LTD.
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