ORDER NO. RD8302290C2

Service Manual

Radio Cassette

RX-C50S

Portable Component System With 2-Band (FM/AM) Radio

■ SPECIFICATIONS

General:

Power Requirement:	AC; 220 V, 50/60 Hz Battery; 12 V (Eight "C" Size Flashlight Batteries) (National UM-2 or equivalent) Car battery; with optional car adaptor RP-952
Power Consumption:	30 W (AC only)
Power Output:	12 W (6 W×2) . . . RMS (max.) 17 W . . . MPO (10% THD)
Speaker:	Woofer; 8 cm (3") PM Dynamic Speaker (3Ω) Tweeter; 2 cm (3/4") Ceramic Speaker (2 kΩ)
Input:	MIC; sensitivity 0.25 mV/applicable microphone impedance 200~600Ω (recommended microphone RP-8135) Line in; sensitivity 200 mV/47 kΩ over DC IN; 13.2 V
Output:	Line out; sensitivity 360 mV/4.7 kΩ under Speaker; 3Ω Headphones; 32Ω
Dimensions:	Total Size 432 (W)×133 (H)×166 (D) mm (17×5 1/4×6 9/16)" Main Unit 243 (W)×133 (H)×166 (D) mm (9 9/16×5 1/4×6 9/16)" Speaker Box 96 (W)×128 (H)×143 (D) mm (3 13/16×5 1/16×5 5/8)"
Weight:	4.5 kg (9 lb. 1.5 oz.) without batteries

Radio Section:

Radio Frequency Range:	FM; 87.5~108 MHz AM; 520~1610 kHz (577~186 m)
Intermediate Frequency:	FM; 10.7 MHz AM; 455 kHz
Sensitivity:	FM; 3.6μV/50 mW output AM; 80μV/m/50 mW output

Tape Deck Section:

Frequency Response:	40~12,000 Hz (with normal tape) 40~14,000 Hz (with CrO_2 tape) 40~15,000 Hz (with Metal tape)
Recording system:	AC bias, AC erase
Tape Speed:	4.8 cm/s, (1 7/8 ips)
Wow and Flutter:	0.07% (WRMS)
Program Time:	1 hour with C-60 cassette tape
Track System:	4-track 2 channel stereo recording and playback

Specifications are subject to change without notice.

Panasonic

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

LOCATION OF CONTROLS AND COMPONENTS

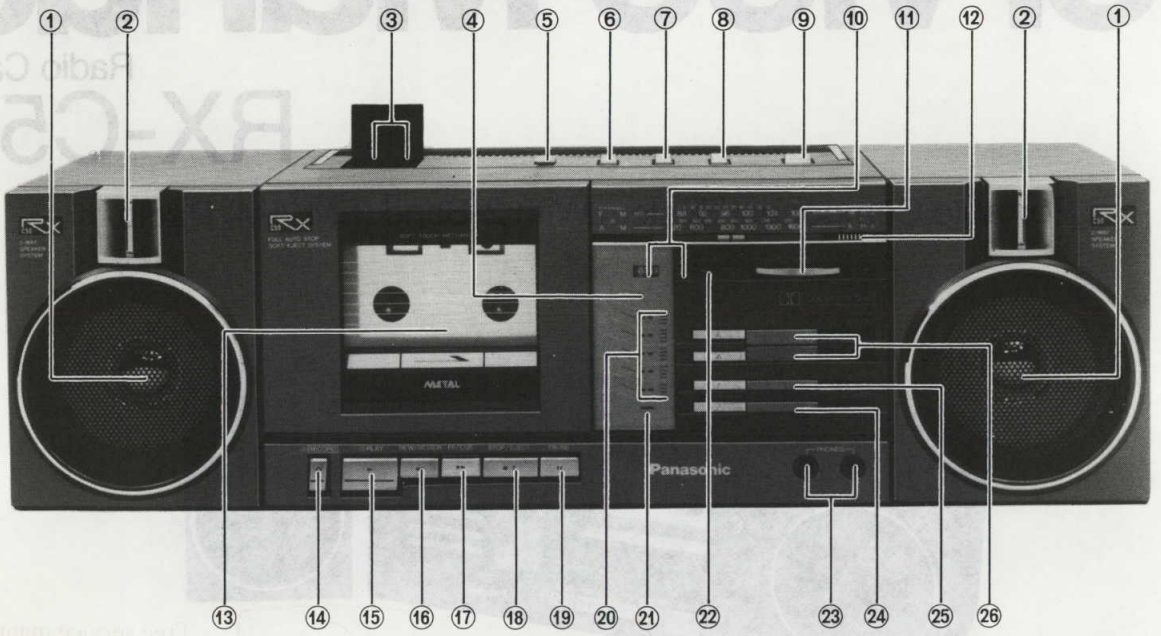


Fig. 1

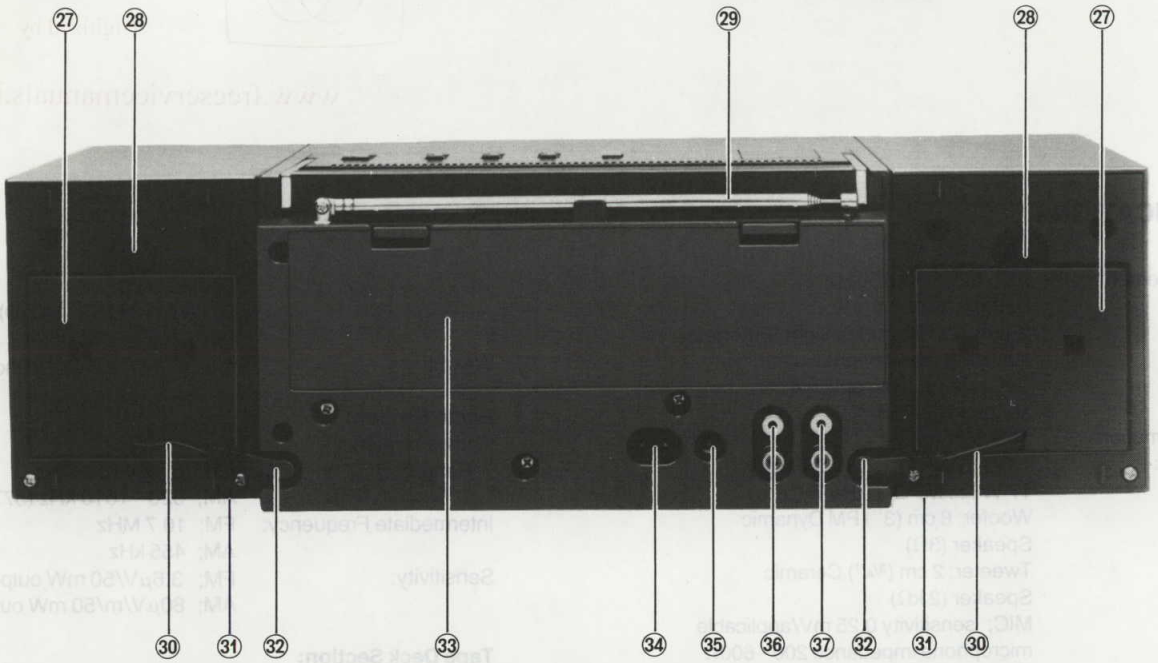


Fig. 2

① Speakers (Woofer), 8 cm (3''), 3Ω
② Speakers (Tweeter), 2 cm ($\frac{3}{4}$''), 2 kΩ
③ Microphone Jacks (MIC), 0.25 mV (200~600Ω)
④ *Dolby Noise Reduction Indicator (DOLBY NR)
⑤ Dolby Noise Reduction Switch (IN/OUT)
⑥ Function Switch (LINE IN/RADIO/TAPE)
⑦ Tape Switch (METAL/CrO_2/NOR)
⑧ Mode/Beat Proof Switch (STEREO/II, MONO/I)
⑨ Band Switch (FM/AM)
⑩ Tape Counter and Reset Button
⑪ Tuning Control (TUNING)
⑫ Built-in Microphone (MIC)
⑬ Cassette Compartment
⑭ Record Button (RECORD)
⑮ Playback Button (PLAY)
⑯ Rewind/Review Button (REW/REVIEW)
⑰ Fast Forward/Cue Button (FF/CUE)
⑱ Stop/Eject Button (STOP/EJECT)
⑲ Pause Button (PAUSE)
⑳ Level Meter (LEVEL)
㉑ Operation/Battery Check Indicator (OPR/BATT)

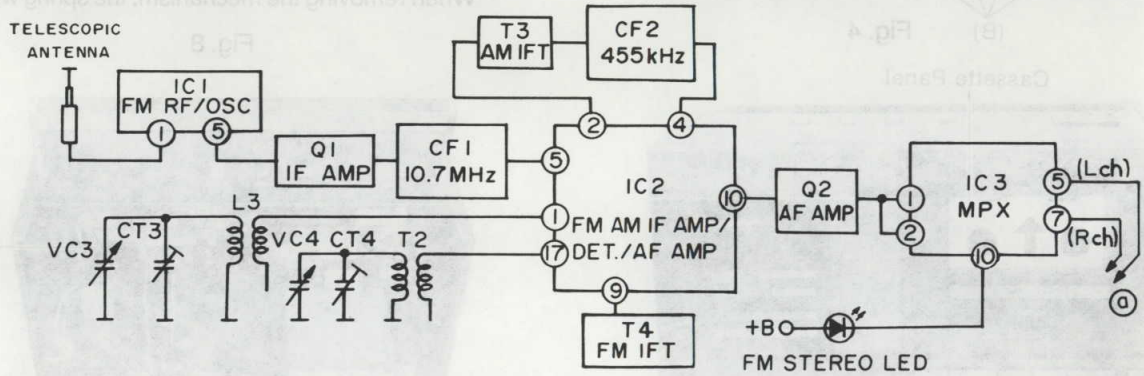
㉒ FM Stereo Indicator (FM STEREO)
㉓ Headphone Jacks (PHONES), 32Ω
㉔ Treble Control (TREBLE)
㉕ Bass Control (BASS)
㉖ Volume Controls (VOLUME)
㉗ Speaker Cable Compartments
㉘ Speaker Wall Mounts
㉙ Telescopic Antenna
㉚ Speaker Cables
㉛ Speaker Release Levers (RELEASE)
㉜ Speaker Jacks, 3Ω
㉝ Battery Compartment
㉞ AC Socket (AC IN ~)
㉟ DC Input Jack (DC IN 13.2 V ⊖-⊙-⊕)
㊱ Line Input Jacks (LINE IN) [200 mV (−14 dB) 47 kΩ/Over]
㊲ Line Output Jacks (LINE OUT) [360 mV, 4.7 kΩ/Under]

DOLBY SYSTEM

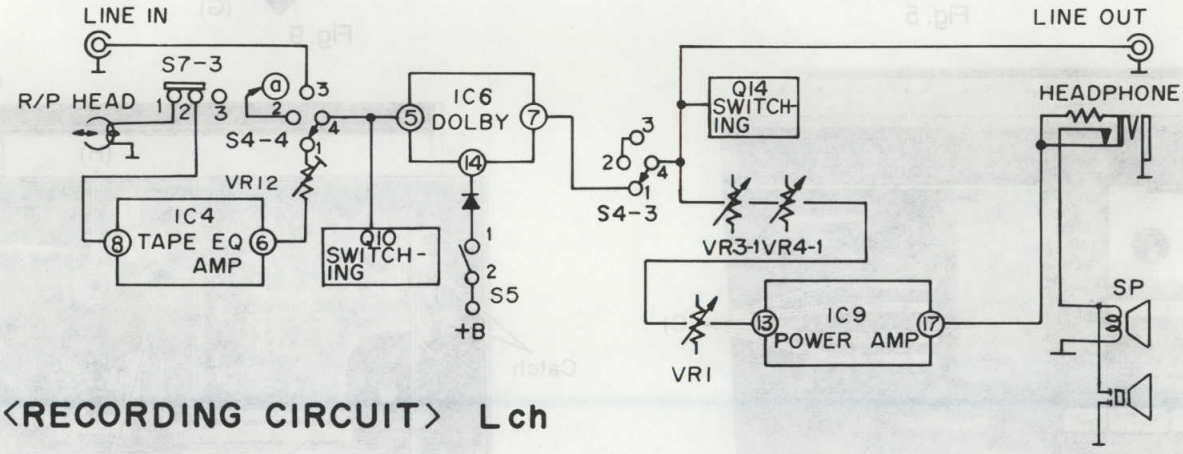
*"Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
*Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

BLOCK DIAGRAM

<RADIO CIRCUIT>



<PLAYBACK CIRCUIT> Lch



<RECORDING CIRCUIT> Lch

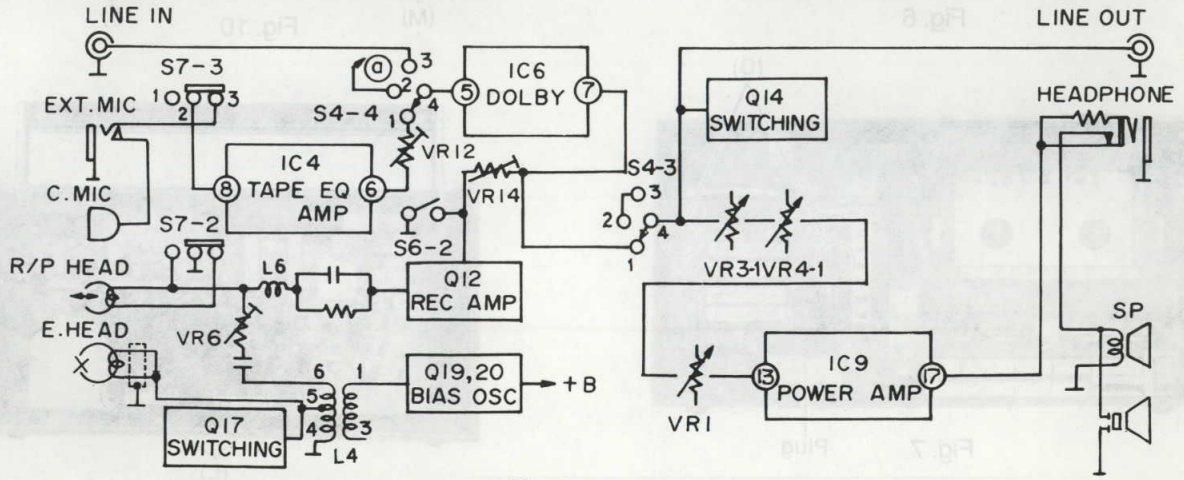


Fig. 3

DISASSEMBLY INSTRUCTIONS

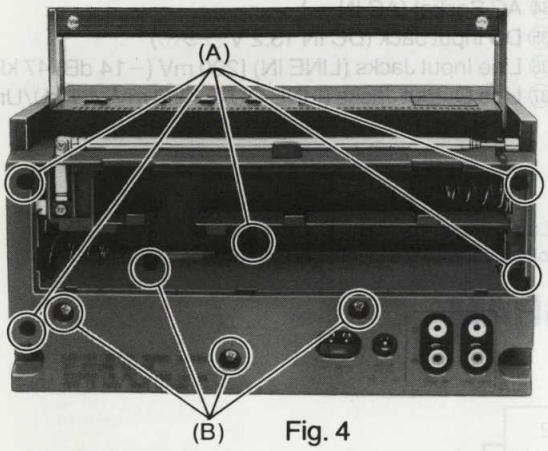


Fig. 4

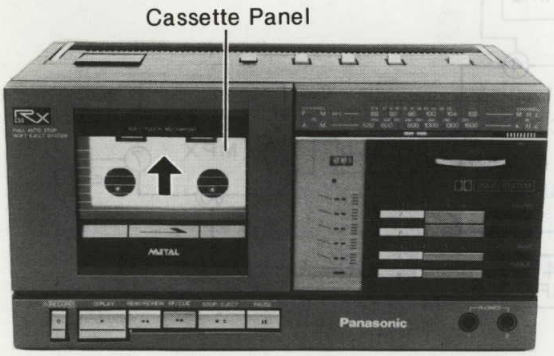


Fig. 5

Fig. 6

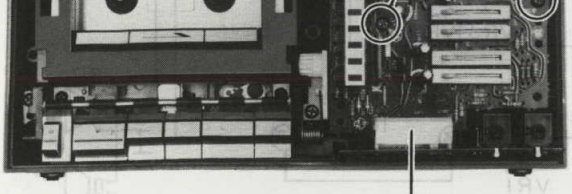


Fig. 7

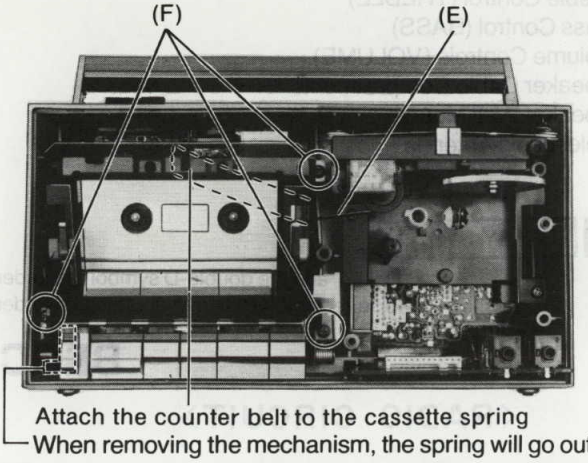


Fig. 8

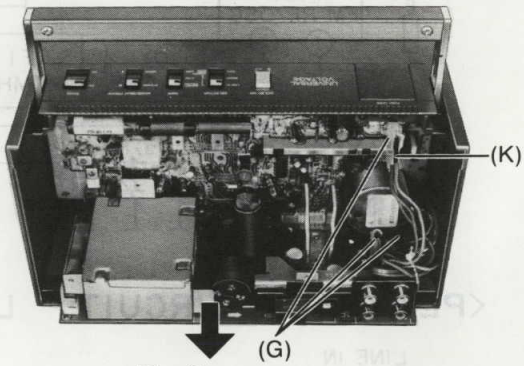


Fig. 9

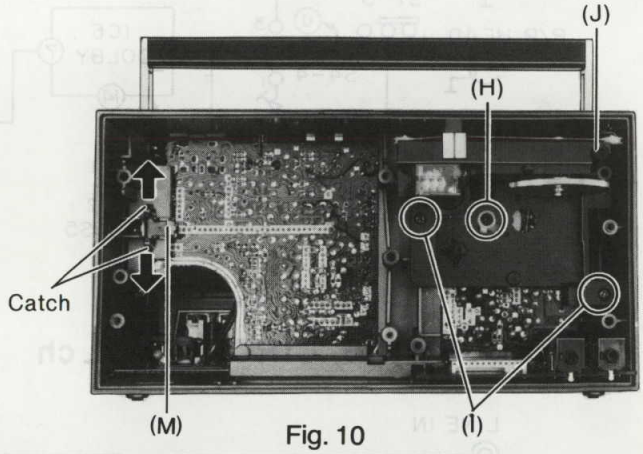


Fig. 10

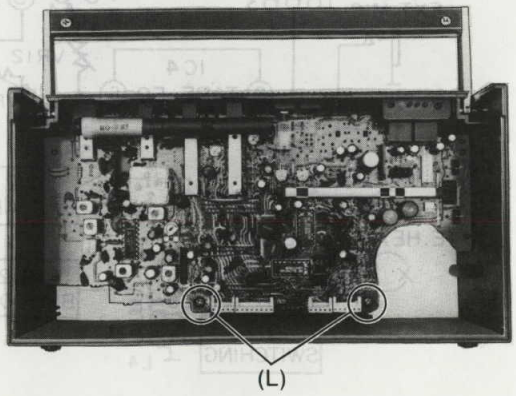


Fig. 11

RX-C50S

DIAL THREADING

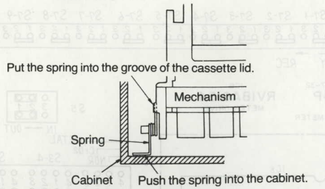


Fig. 12

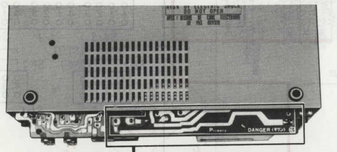


Fig. 13

Cord length is 70 cm (27$^{9}/_{16}$'')

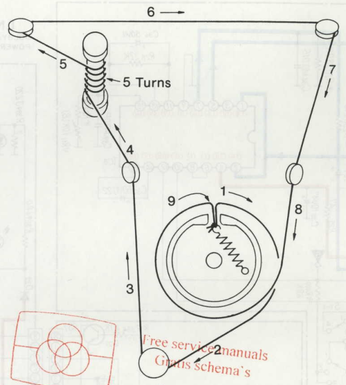


Fig. 14

Procedure	To remove—.	Remove—.	Shown in Fig.—.
1	Rear Cabinet	Screw (3×60) ..... (A)×5	4
2		Screw (3×6) ..... (B)×4	4
3	Front Cabinet *1	Push the eject button	——
4		Remove the cassette panel in the direction of arrow.	5
5		Knob ..... (C)×4	6
6	Volume Circuit Board	Screw (3×12) ..... (D)×2	7
7		Pull the plug.	7
8	Mechanism *2	Attach the counter belt to the cassette spring ..... (E)×1	8
9		Screw (3×12) ..... (F)×3	8
10		Socket ..... (G)×3	9
11	Dial Chassis *3	Screw (2.6×5) ..... (H)×1	10
12		Screw (3×12) ..... (I)×2	10
13		Microphone ..... (J)×1	10
14	Power source and amplifier circuit board	Socket ..... (K)×1	9
15		Pull the circuit board in the direction of arrow.	9
16	Radio circuit board	Screw (3×12) ..... (L)×2	11
17		Push the catch in the direction of arrows and remove the R/P lever ..... (M)×1	10

*1. Fix the knob as shown in fig. 6.
*2. Fix the spring as shown in fig. 12.
*3. Turn the dial drum and tuning capacitor shaft fully counter-clockwise.

MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Set volume control to maximum.
2. Set bass and treble control to center.
3. Set band switch to AM or FM.
4. Set function switch to radio.
5. Set mode/beat proof switch to STEREO/II.
6. Set dolby NR switch to out.
7. Set power source voltage to 12 V DC.
8. Output of signal generator should be no higher than necessary to obtain an output reading.

■ AM ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR CONNECTIONS	SIGNAL GENERATOR or SWEEP GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
		AM-IF ALIGNMENT					
(1)	AM	Fashion loop of several turns of wire and radiate signal into loop of receiver.	455 kHz 30% Mod. at 400 Hz	Point of non-interference. (on/ about 600 kHz)	Output meter across voice coil.	T3 (AM IFT)	Adjust for maximum output.
		AM-RF ALIGNMENT					
(2)	AM	,,	550 kHz	550 kHz (Refer to Fig. 15)	Output meter across voice coil	T2 (AM OSC Coil) (*1) L3 (AM ANT Coil)	Adjust for maximum output. Adjust L3 by moving coil bobbin along ferrite core.
(3)	AM	,,	1,500 kHz	1,500 kHz (Refer to Fig. 15)	,,	CT4 (AM OSC Trimmer) CT3 (AM ANT Trimmer)	Adjust for maximum output. Repeat steps (2) and (3).

(*1) Cement antenna bobbin with wax after completing alignment.

■ FM ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR CONNECTIONS	SIGNAL GENERATOR or SWEEP GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
		FM-IF ALIGNMENT					
(1)	FM	Connect to test point ▼ through 0.001 μF. Negative side to test point ▼.	10.7 MHz (SWP.)	Point of non-interference. (on/ about 90 MHz)	Connect vert. amp. of scope to test point ▼. Negative side to test point ▼.	T1 (FM 1st IFT)	Adjust for maximum amplitude. (Refer to fig. 18).
(2)	FM	,,	,,	,,	,,	T4 (FM 2nd IFT)	Adjust for maximum amplitude. (Refer to fig. 19).
		FM-RF ALIGNMENT					
(3)	FM	Connect to test point ▼ through FM dummy antenna. Negative side to test point ▼.	90 MHz	90 MHz (Refer to Fig. 15)	Output meter across voice coil	L2 (FM OSC Coil) L1 (FM ANT Coil)	(*2) Adjust for maximum output.
(4)	FM		106 MHz	106 MHz (Refer to Fig. 15)	,,	CT2 (FM OSC Trimmer) CT1 (FM ANT Trimmer)	(*2) Adjust for maximum output. Repeat steps (3) and (4).

(*2) Three output responses will be present; proper tuning is the center frequency.

■ ALIGNMENT POINT

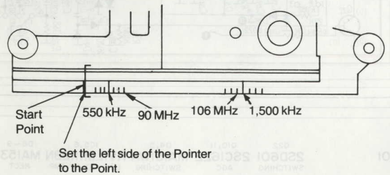


Fig. 15

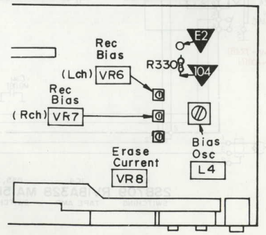


Fig. 16

■ SEPARATION ALIGNMENT

ITEM	FM SIGNAL GENERATOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
Adjustment of pilot signal.	90 MHz, 60 dB (Mod CW)	▼ ... (+) ▼ ... (−)	VR11	19 kHz	Adjust VR11, for 19 kHz (±150 Hz) reading on electronics counter.

■ AUDIO ADJUSTMENT

ITEM	INPUT	MEASUREMENT POINT	SPECIFICATION	ADJUSTMENT POINT	REMARKS
Azimuth	QZZCFM (8 kHz, −20 dB)	SP	Maximum output.	Azimuth screw	Playback mode
Playback gain	QZZCFM (315 Hz, 0 dB)	LINE OUT	360 mV±1 dB	VR12 (Lch) VR13 (Rch)	Playback mode
LED meter	QZZCFM (315 Hz, 0 dB)	Meter	——	VR9	Adjust VR9 so that the red LED begins to fade out.
Bias oscillation frequency	——	▼ ... (+) ▼ ... (−)	67±0.5 kHz	L4	Record mode Beat proof switch→II Tape selector→Metal
Erase current	Use metal tape	▼ ... (+) ▼ ... (−)	150±10 mV	VR8	Record mode Beat proof switch→II Tape selector→Metal
Rec bias	Use metal tape	▼ ... (Lch) ▼ ... (Rch) ▼ ... (−)	Metal 9.6± 0.5 mV	Metal VR6 (Lch) VR7 (Rch)	Record mode Beat proof switch→II Tape selector→Metal
R/P gain	LINE IN f = 1 kHz, −34 dB	LINE OUT	36±8 mV	VR14 (Lch) VR5 (Rch)	1. Place UNIT into record mode, and tape selector to normal. 2. Supply 1 kHz (−34 dB) from AF oscillator to LINE IN. 3. Playback recorded tape, and make sure the value at LINE OUT on the electronics voltmeter becomes 36 mV±8 mV.

●As for test points, refer to the circuit board, on page 9.

■ ALIGNMENT POINT

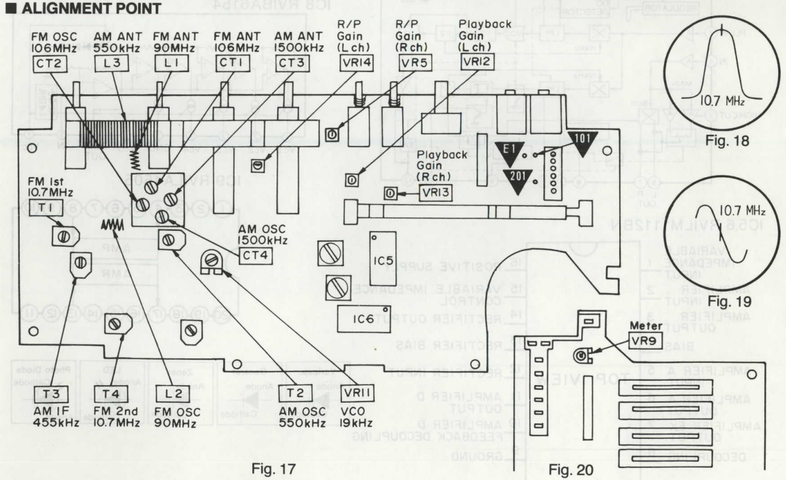


Fig. 17

Fig. 18

Fig. 19

Fig. 20

Notes:

1. S1-1, S1-2: Band switch in "FM" position.
   (1 . . . FM, 2 . . . AM)
2. S2-1, S2-2: Mode/Beat Proof switch in "STEREO/II" position.
   (1 . . . STEREO/II, 2 . . . MONO/I)
3. S3-1~S3-6: Tape switch in "NOR" position.
   (1 . . . NOR, 2 . . . CrO_2, 3 . . . METAL)
4. S4-1~S4-6: Function switch in "TAPE/POWER OFF" position.
   (1 . . . TAPE/POWER OFF, 2 . . . RADIO, 3 . . . LINE IN)
5. S5: Dolby NR switch in "OUT" position.
   (1 . . . OUT, 3 . . . IN)
6. S7-1~S7-10: Record/Playback switch in "Playback" position.
   (1 . . . Playback, 3 . . . Recording)
7. S8: AC/DC switch in "DC" position.
8. S10: FF/REW switch.
9. S11: Motor switch.
10. S12: Amplifier switch.
11. VR1, 2: Volume control VR
    VR3: Bass control VR
    VR4: Treble control VR
    VR5, 14: R/P gain adjustment VR
    VR6, 7: Recording bias adjustment VR
    VR8: Erase current adjustment VR
    VR9: Meter adjustment VR
    VR11: VCOadjustment VR
    VR12, 13: Playback gain adjustment VR
12. The mark (▼) shows test point.e.g.▼=test point 1.
13. DC voltage measurement are taken with electronics voltmeter from negative terminal of battery.
    < > . . . FM position, ( ) . . . AM position,
    [ ] . . . Recording position
14. Battery current: No signal . . . . . 140 mA
    Maximum output (radio) 1.15A
    Maximum output (tape) 1.2A
15. The marks (*) shows printed-type resistors.
16. Important safety notice
    Components identified by ⚠ mark have special characteristics important for safety.
    When replacing any of these components, use only munufacturer's specified parts.

OVERALL FREQUENCY RESPONSE

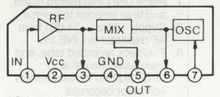
Normal	100 Hz 3±5 dB 1 kHz 0 dB 10 kHz 0±6 dB	CrO_2 100 Hz 3±5 dB 1 kHz 0 dB 10 kHz 0±6 dB
Metal	100 Hz 3±5 dB 1 kHz 0 dB 10 kHz 0±6 dB	

BIAS VOLTAGE
5.0±0.6 mV (Normal)
6.5±0.7 mV (CrO_2)
9.6±0.5 mV (Metal)

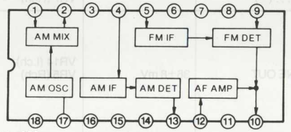
+ⓑ Voltage Line
Radio (FM) Signal Line
Tape (PLAY BACK) Signal Line
Tape (RECORD) Signal Line

IC BLOCK

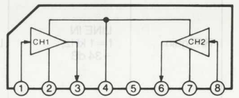
IC1 AN7213



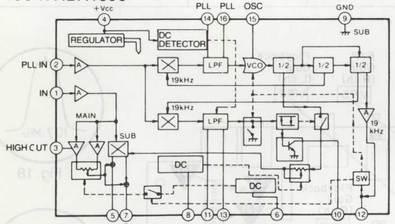
IC2 AN7220A



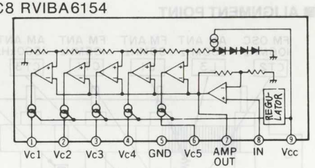
IC4 RVIBA328



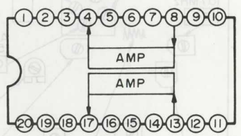
IC3 RVIBA1356



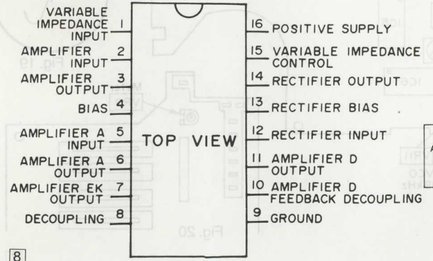
IC8 RVIBA6154

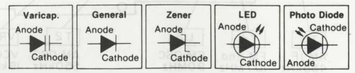


IC9 RVILA4505

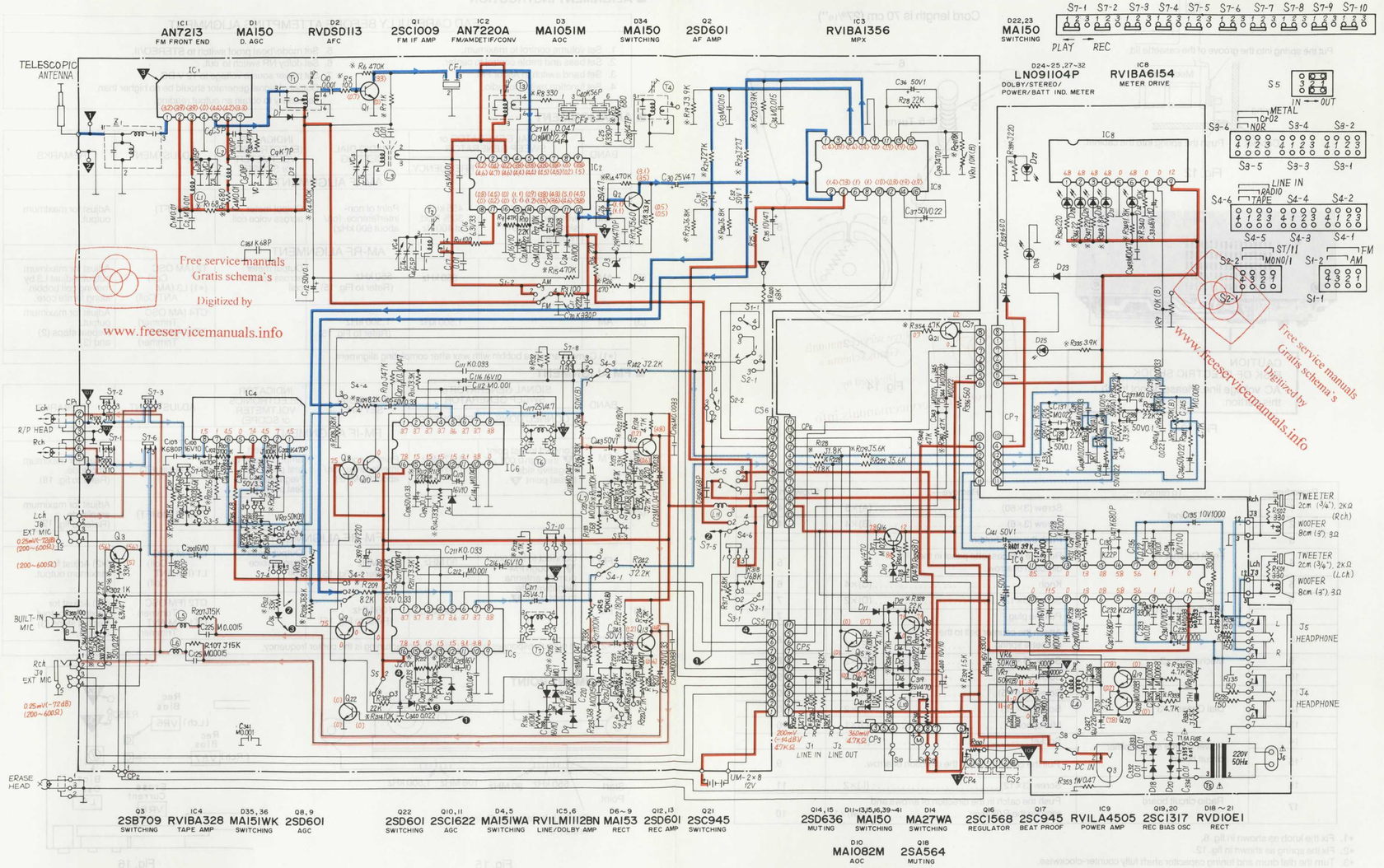


IC5,6 RVILM1112BN



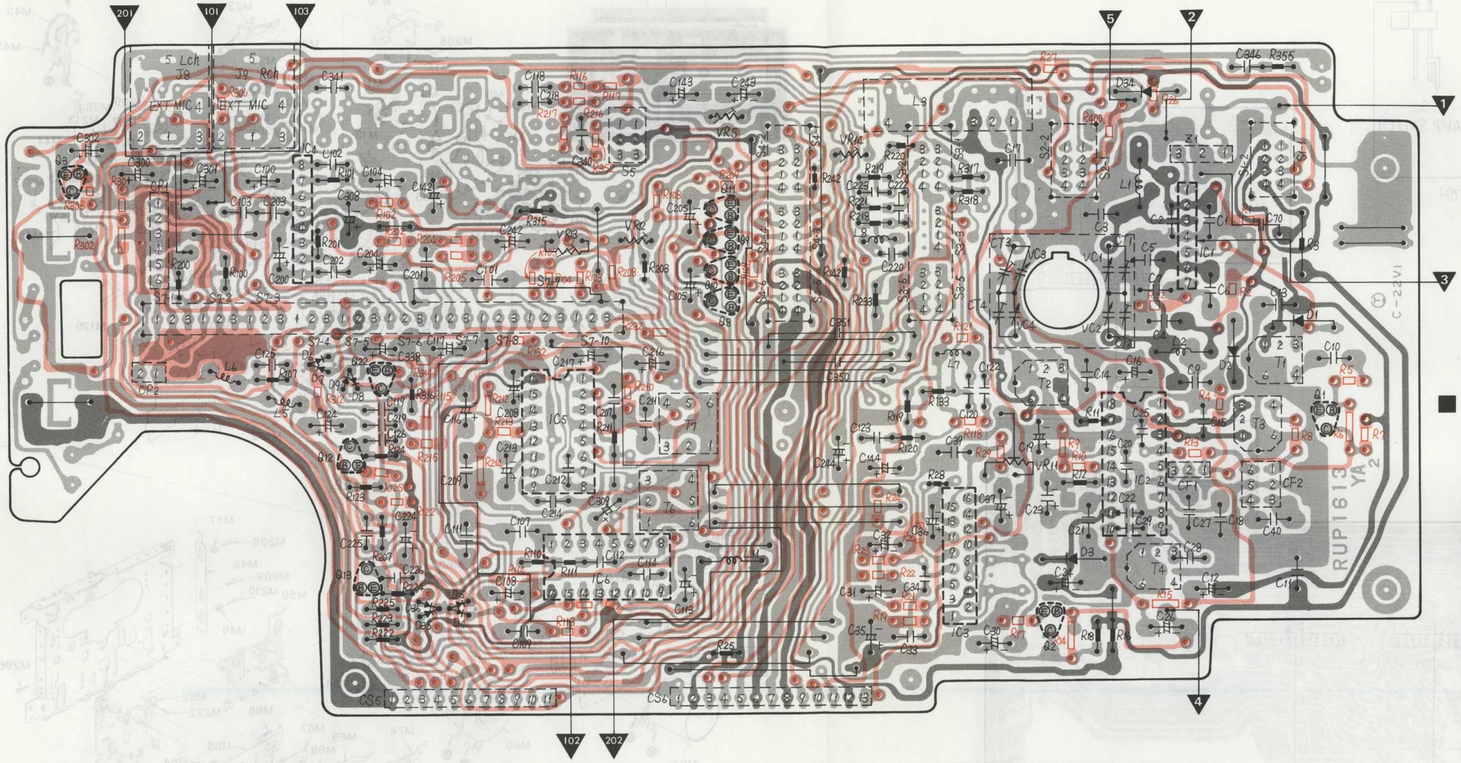


SCHEMATIC DIAGRAM MODEL RX-C50S



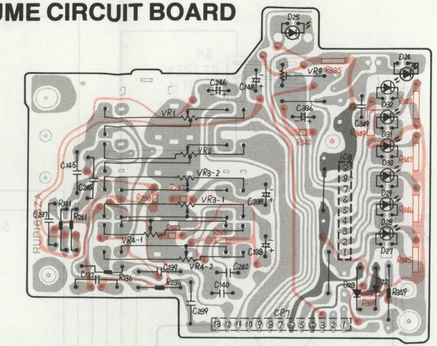
CIRCUIT BOARD MODEL RX-C50S

■ RADIO CIRCUIT BOARD

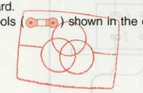


 IC1	 IC2	 IC3	 IC4	 IC5,6	 IC8	 IC9	 Q1~3, 8~13, 22	 Q14,15
 Q16	 Q17~21	 D1~3, 11~16 22, 23, 34 37~41	 D4,5	 D6~9	 D10	 D18~21	 D35,36	

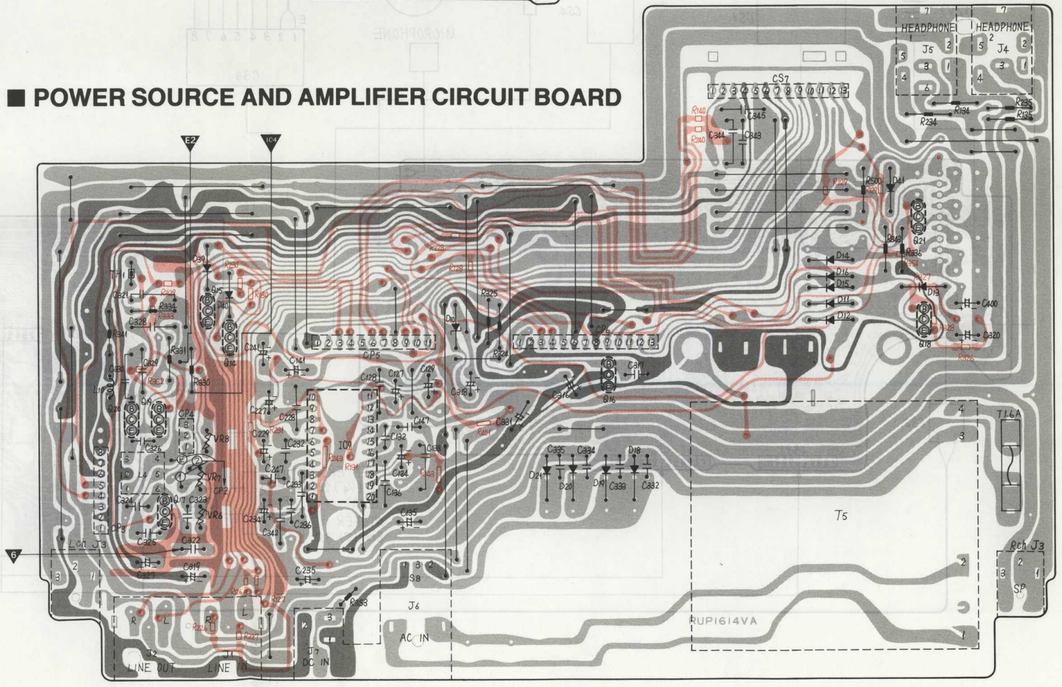
■ VOLUME CIRCUIT BOARD



- The symbols (●) shown in the circuit board indicate connection points between conductors on the front side and back side of the circuit board.
- The symbols (●) shown in the circuit board indicate printed resistor.

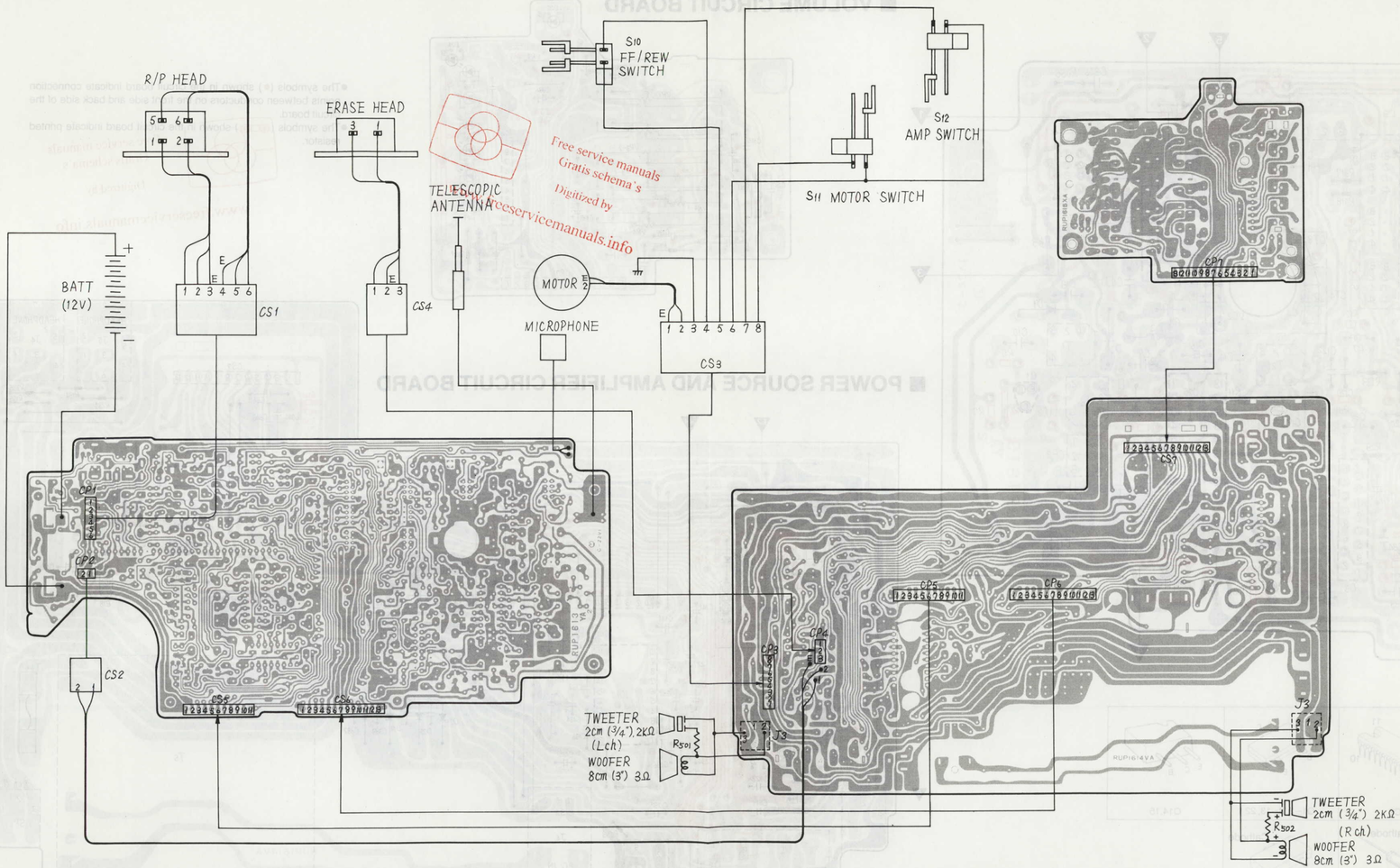


■ POWER SOURCE AND AMPLIFIER CIRCUIT BOARD

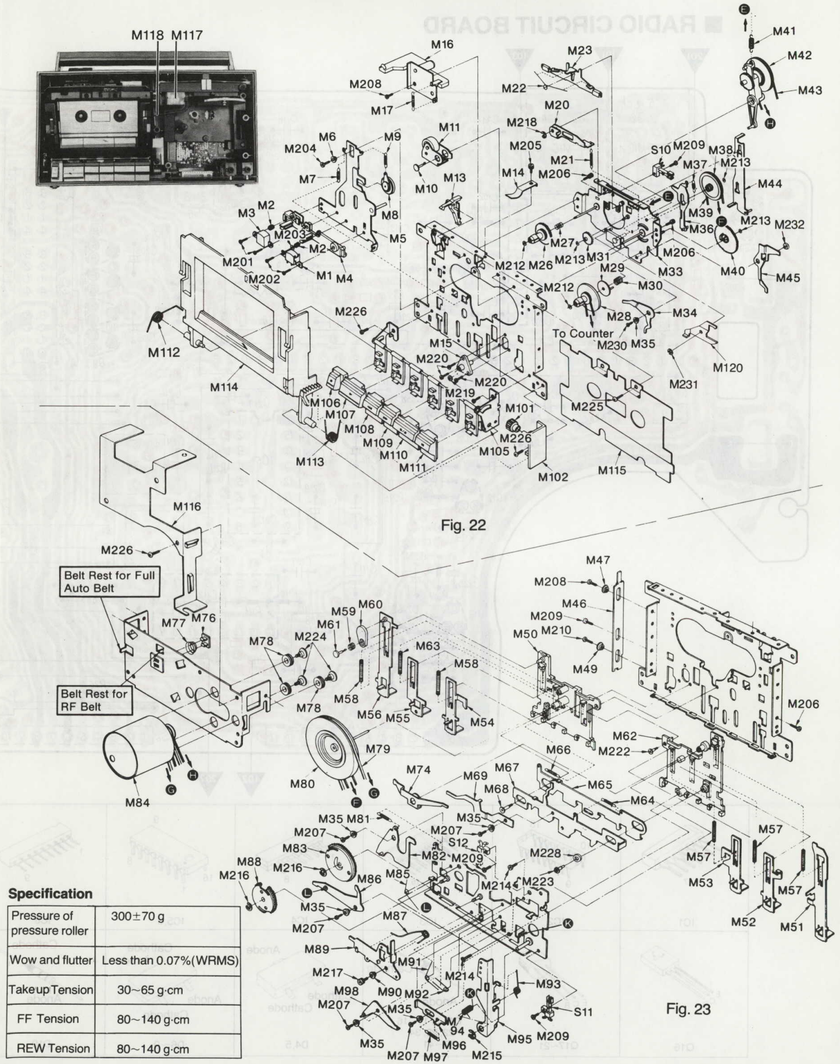


RX-C50S RX-C50S

WIRING CONNECTION DIAGRAM MODEL RX-C50S



MECHANISM PARTS LOCATION



Specification

Pressure of pressure roller	300±70 g
Wow and flutter	Less than 0.07%(WRMS)
Take up Tension	30~65 g·cm
FF Tension	80~140 g·cm
REW Tension	80~140 g·cm

CABINET PARTS LOCATION

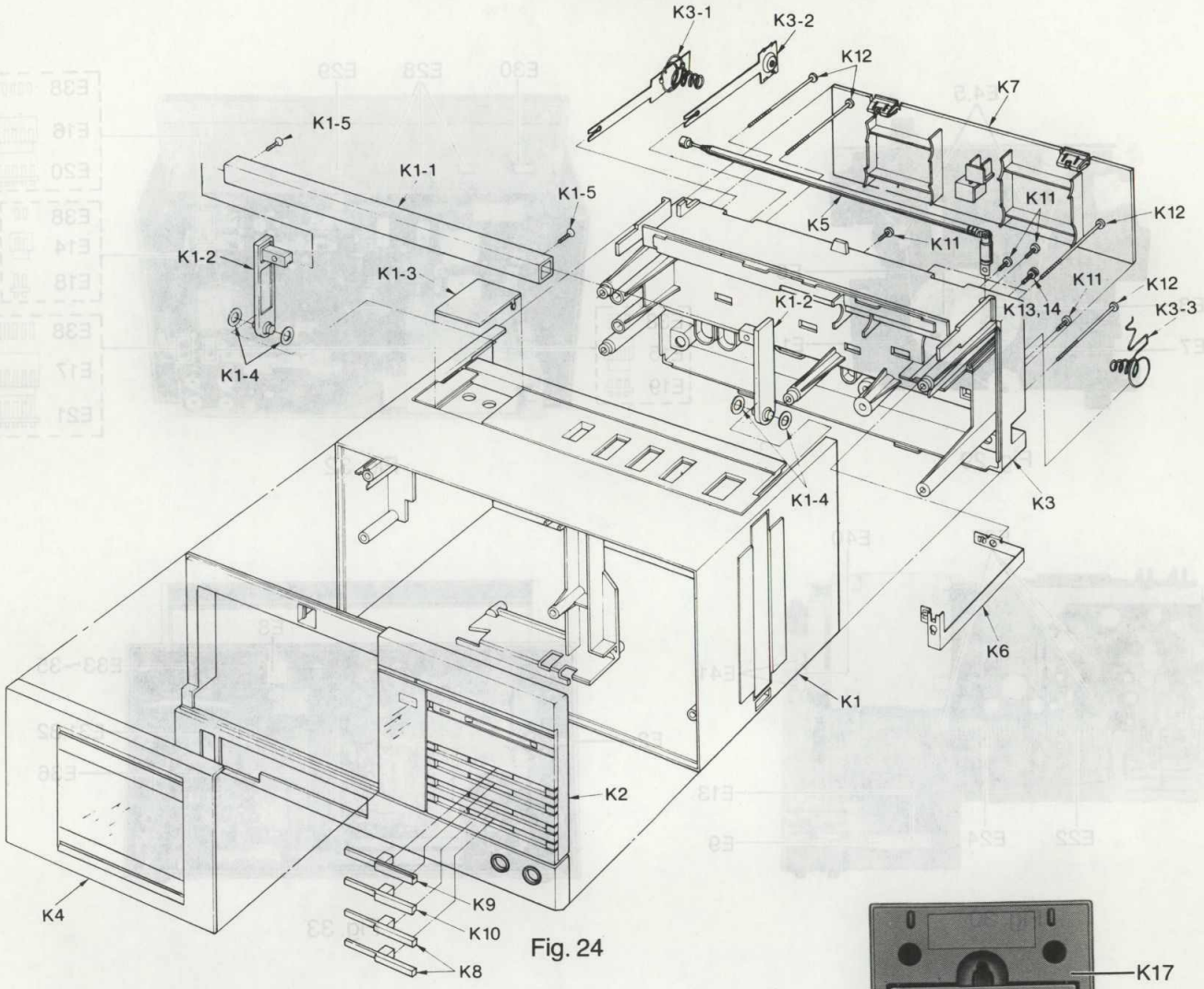


Fig. 24

Fig. 25

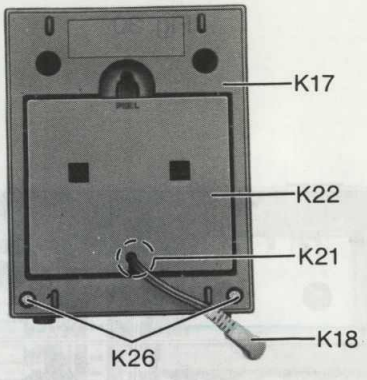


Fig. 26

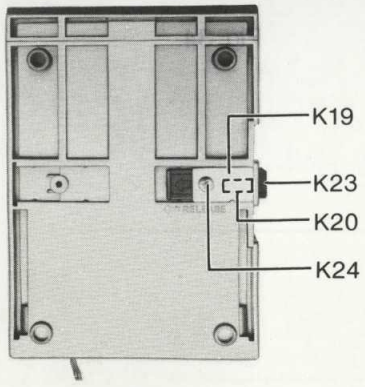


Fig. 27

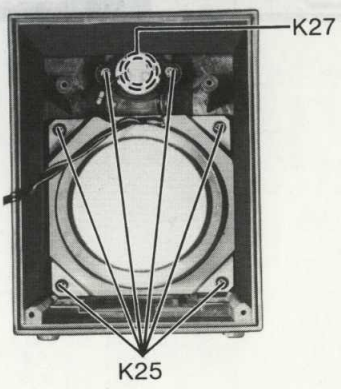


Fig. 28

ELECTRICAL PARTS LOCATION

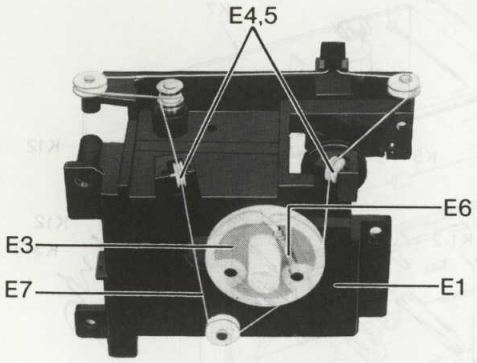


Fig. 29

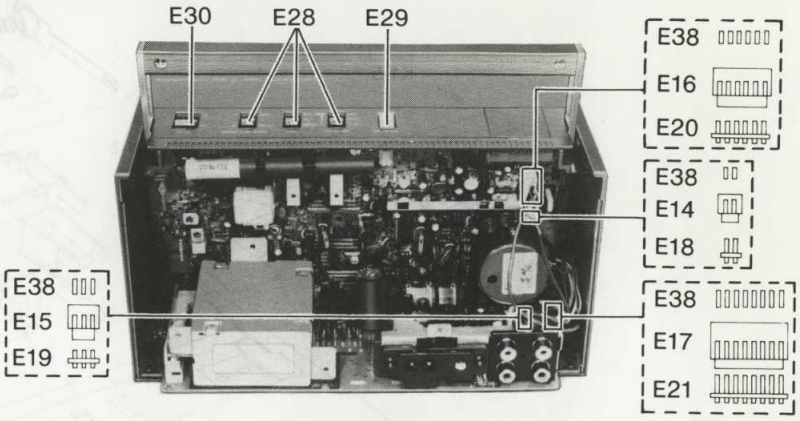


Fig. 32

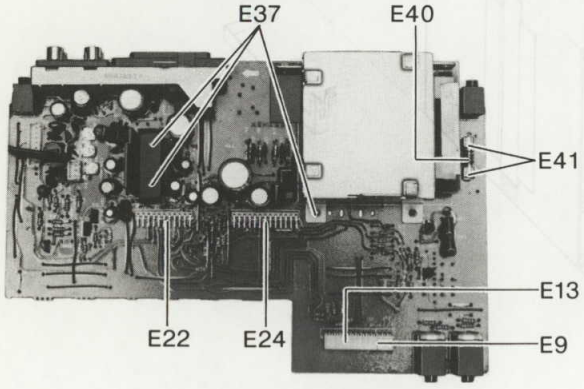


Fig. 30

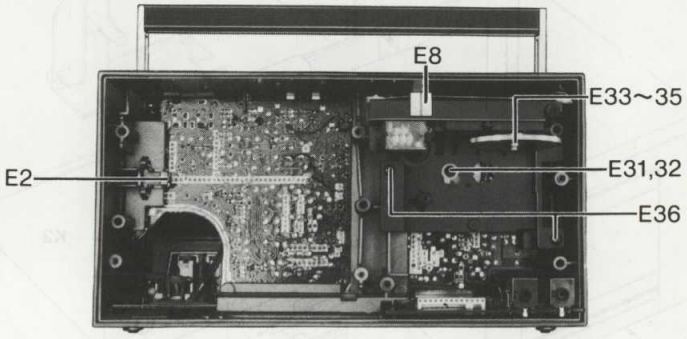


Fig. 33

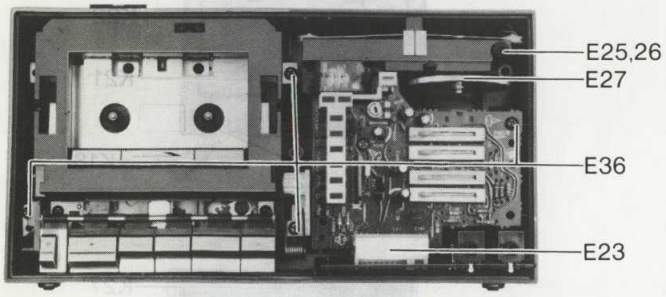


Fig. 31

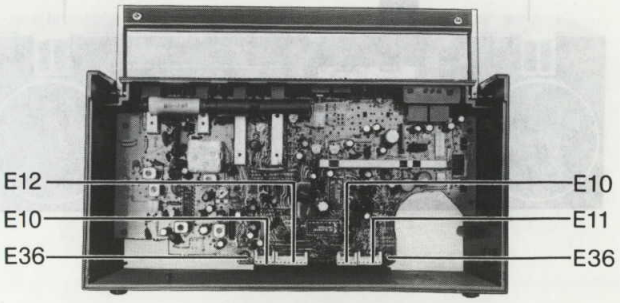


Fig. 34

■ REPLACEMENT PARTS LIST ·····Model RX-C50S

(RD83022062C2)

NOTES: 1. Important safety notice.
Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.
2. The S mark indicates service standard parts and may differ from production parts.

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
		MECHANICAL PARTS		
M1	RJH2E8Z	Record/Playback Head	1	
M2	RFS166Z	Head Spring	2	
M3	RJH7E3Z	Erase Head	1	
M4	SMQ4768	Head Base	1	
M5	RFD135Z	Head Panel Ass'y	1	
M6	SMQ4168	Head Panel Spacer	1	
M7	SMQ4770	Head Panel Spring	1	
M8	RFI18Z	Take Up Roller Bearing Ass'y	1	
M9	RFS249Z	Take Up Roller Bearing Spring	1	
M10	SMQ4774	Pinch Roller Ass'y Stopper	1	
M11	SMQ4776	Pinch Roller Ass'y	1	
M13	SMQ4778	Erase Safety Lever	1	
M14	SMQ4780	Cassette Pressure Spring	1	
M15	SMQ4782	FL Metal	1	
M16	RFY189Z	Eject Lever	1	
M17	RFS257Z	Eject Lever Spring	1	
M20	RFY184Z	Operating Lever	1	
M21	RFS250Z	Operation Lever Spring	1	
M22	SMQ4792	Brake Arm Spring	1	
M23	SMQ4794	Brake Arm Ass'y	1	
M26	SMQ4800	Supply Reel Table Ass'y	1	
M27	SMQ4802	Back Tension Spring	1	
M28	SMQ4804	Take Up Reel Table Ass'y	1	
M29	SMQ4806	Detector Lever Peace	1	
M30	SMQ4808	Take Up Reel Table Spring	1	
M31	SMQ4810	FF Gear	1	
M33	RFU16Z	Leaf Board Ass'y	1	
M34	SMQ4814	T Roller Kick Lever	1	
M35	SMQ4816	Spacer, T Roller Kick Lever etc.	6	
M36	SMQ4818	Detector Lever	1	
M37	SMQ4820	Detector Lever Spring	1	
M38	SMQ4822	Pulley	1	
M39	SMQ4824	Full Auto Belt	1	
M40	SMQ4826	Cam Gear	1	
M41	RFS255Z	RF Clatch Arm Spring	1	
M42	RFG36Z	RF Clatch Arm Ass'y	1	
M43	SMQ4830	RF Belt	1	
M44	SMQ4832	RF Slide Lever Ass'y	1	
M45	SMQ4834	Auto Lever	1	
M46	RFY190Z	Eject Slide Lever	1	
M47	RFX61Z	Spacer, Eject Slide Lever	1	
M49	RFX62Z	Spacer, Eject Slide Lever	1	
M50	SMQ4836	Button Base (L)	1	
M51	SMQ4844	Record Button Lever	1	
M52	SMQ4846	Playback Button Lever	1	
M53	SMQ4848	REW Button Lever	1	
M54	SMQ4850	FF Button Lever	1	
M55	SMQ4852	Stop, Eject Button Lever	1	
M56	SMQ4854	Pause Button Lever Ass'y	1	
M57	SMQ4856	Button Lever Spring, R/P, REW	3	
M58	SMQ4858	Button Lever Spring, FF, Pause	2	
M59	SMQ4860	Pause Lever Spring	1	
M60	SMQ2444	Pause Lever	1	
M61	SMQ4862	P Stopper	1	
M62	SMQ4840	Button Base (R)	1	
M63	RFS258Z	Button Lever Spring, Stop/Eject	1	
M64	RFS252Z	Pressure Button Operation Plate Spring	1	
M65	RFY185Z	Pressure Button Operation Plate	1	
M66	RFS253Z	Switch Operation Plate Spring	1	
M67	SMQ4868	Switch Operation Plate	1	
M68	SMQ4870	Color Screw	1	
M69	SMQ4872	E Kick Lever	1	
M74	SMQ4842	Record Stopper	1	
M76	SMQ4920	FL Plate	1	
M77	SMQ4922	Damper Spring	1	
M78	SMQ4916	Motor Rubber	3	
M79	SMQ4898	Main Belt	1	
M80	SMQ4900	Flywheel Ass'y	1	
M81	SMQ4908	REW Spring	1	
M82	SMQ4906	Pause Arm Ass'y	1	
M83	SMQ4894	M Gear	1	
M84	RFM15Z	Motor Ass'y	1	
M85	SMQ4904	P Trigger Arm Spring	1	
M86	SMQ4902	P Trigger Arm Ass'y	1	
M87	RFS248Z	Lift Arm Spring	1	
M88	SMQ4896	P Gear	1	
M89	RFY188Z	Lift Arm Ass'y	1	
M90	SMQ4910	Lift Arm Spacer	1	
M91	SMQ4890	M Trigger Arm Spring	1	
M92	SMQ4888	M Gear Spring	1	
M93	RFS256Z	Record Dampper Spring	1	
M94	SMQ4886	Record Operation Arm Spring	1	
M95	RFY187Z	Record Operation Arm	1	
M96	RFY186Z	Record Operation Plate	1	
M97	RFS254Z	Switch Operation Plate Spring	1	
M98	SMQ4892	M Trigger Arm Ass'y	1	
M101	QDG1102	Slow Up Gear	1	
M102	RME307Z	Gear Holder	1	
M105	RME316Z	Button Ungle	1	
M106	RBC427Z	Record Button	1	
M107	RBC428Z	Playback Button	1	
M108	RBC429Z	REW Button	1	
M109	RBC430Z	FF Button	1	
M110	RBC431Z	Stop/Eject Button	1	
M111	RBC432Z	Pause Button	1	
M112	RUS490Z	Eject Spring, Left	1	
M113	RUS482Z	Eject Spring, Right	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
M114	RYQXC50N	Cassette Lid Ass'y	1	
M115	RDH188Z	Cover	1	
M116	RMC856Z	Shield Cover	1	
M117	RSE94Z	Counter	1	
M118	QDB0220	Counter Belt	1	
M120	SMQ4940	Kick Lever	1	
M201	XSN2+8	Screw, Erase Head M'tg	2	S
M202	XSN2+7	Screw, R/P Head	2	
M203	RFN72Z	Washer, R/P Head	1	
M204	XSN26+4	Screw, Head Panel M'tg	1	S
M205	XTN26+3H	Screw, Cassette Pressure M'tg	1	
M206	XYN2+4F	Screw, Leaf Board, etc. M'tg	3	
M207	XSS2+25	Screw, E Kick Lever, etc. M'tg	6	
M208	XYN26+5F	Screw, EjectSlideLeverM'tg etc.	2	
M209	XSN2+4	Screw, Eject Slide Lever, etc. M'tg	4	S
M210	XYN2+6F	Screw, Eject Slide Lever M'tg	1	
M212	SMQ4928	Poly Slider Washer, Reel Table	2	
M213	SMQ4930	Poly Slider Washer, FF Gear etc.	3	
M214	RFE71Z	Screw, Sub Chassis M'tg	3	
M215	XUC3FT	E Ring, Record Operation Arm M'tg	1	S
M216	XUC2FT	E Ring, M, P Gear M'tg	2	S
M218	XUC15FT	E Ring, Operation Lever M'tg	1	S
M219	SMQ4932	Nylon Washer, FL Metal	1	
M220	XSS2+3	Screw, FL Metal M'tg	3	S
M222	SMQ4838	Color Screw, Button Base (R) M'tg	1	
M223	SMQ4878	Color Screw, E Kick Lever M'tg	1	
M224	SMQ4918	Color Screw, Motor M'tg	3	
M225	XTV26+4FFZ	Screw, Cover M'tg	1	
M226	XTV26+4F	Screw, Button Ungle, etc.	3	
M228	RFN73Z	Washer, Operation Plate	1	
M230	SMQ4944	Screw, T Roller Kick Lever M'tg	1	
M231	XUC12FT	Circlip, Kick Lever M'tg	1	
M232	SMQ4938	Nut, Auto Lever	1	
		INTEGRATED CIRCUITS, TRANSISTORS AND DIODES		
IC1	AN7213	IC	1	
IC2	AN7220A	IC	1	
IC3	RVIBA1356	IC	1	
IC4	RVIBA328	IC	1	
IC5,6	RVILM1112BN	IC	2	
IC8	RVIBA6154	IC	1	
IC9	RVILA4505	IC	1	
Q1	2SC1009F4	Transistor (Si)	1	
Q2,8,9,12,13	2SD601Q	Transistor (Si)	5	
Q3	2SB709Q	Transistor (Ge)	1	
Q10,11	2SC1622AD16	Transistor (Si)	2	
Q14,15	2SD636S	Transistor (Si)	2	
Q16	2SC1568R	Transistor (Si)	1	
Q17,21	2SC945P1	Transistor (Si)	2	
Q18	2SA722-S	Transistor (Ge)	1	S
Q19,20	2SC1317NCR	Transistor (Si)	2	
Q22	2SD601R	Transistor (Si)	1	
D1,11∿13,15,16, 22,23,34,39∿41	MA161	Diode (Si)	12	S
D2	RVDSD113	Diode (Si)	1	
D3	MA1051M	Diode (Si)	1	
D4	MA151WA	Diode (Si)	1	
D6,8	MA153	Diode (Si)	2	
D10	MA1082M	Diode (Si)	1	
D14	MA27WA	Diode (Si)	1	
D18∿21	SM112	Diode (Si)	4	S
D24,25,27∿32	LN081104P	LED (Ga)	1	
D35	MA151WK	LED (Si)	1	
		THERMISTOR		
TH1	RRT202	Thermistor	1	
		COILS AND TRANSFORMERS		
L1	RLD4Y54	Antenna Coil, FM	1	
L2	RLD4Y43	Oscillator Coil, FM	1	
L3	RLF2W46	Antenna Coil, AM	1	
L4	RLO9C32	Bias Oscillator Coil	1	
L5,6	RLQZM473J	Choke Coil	2	
L7,8	RLQZ8221	Choke Coil	2	
L10	RLQZB100K	Choke Coil	1	
L11	RLQZA1R0K	Choke Coil	1	
T1,4	RLI4M101	IFT, FM	2	S
T2	RLO2M18	Oscillator Coil, AM	1	
T3	QLI2M102MB	IFT, AM	1	S
T5	RLT5Z4G2A	Power Transformer	1	⚠
T6,7	RLE5030	Transformer, Dolby	2	
		VARIABLE RESISTORS		
VR1,2	EWAL5AC10B54	Variable Resistor, 50kΩ (B)	2	
VR3,4	EWAM0AC10A54	Variable Resistor, 50kΩ (A)	2	
VR5∿7,12∿14	EVNA6AA00B54	Variable Resistor, Preset, 50kΩ (B)	6	S
VR8	EVNA6AA00B14	Variable Resistor, Preset, 10kΩ (B)	1	S
VR9,11	EVNM4AA00B14	Variable Resistor, Preset, 10kΩ (B)	2	S
		VARIABLE CAPACITORS		
VC1∿4	RCV4LC2V1K	Tuning Capacitor, w/Trimmer Capacitor (CT1∿4)	1	
		CERAMIC FILTERS		
CF1	RVF107MTWAZ	Ceramic Filter	1	
CF2	RVFSFZ455B	Ceramic Filter	1	
		COMPONENT COMBINATION		
Z1	RXABPWB5W	Component Combination	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
		SPEAKERS		
	EAS8P116S	Speaker, 8cm (3"), 3Ω, Woofer	2	
	EAS2FP01AA	Speaker, 2cm (13/16"), 2kΩ, Tweeter	2	
		SWITCHES		
S1,2	RST3F18Z	Switch, Band, Mode/Beat Proof	2	
S3,4	RST2B33Z	Switch, Tape, Function	2	
S5	RSH2B25Z	Switch, Dolby NR	1	
S7	RSH2J01V	Switch, R/P	1	
S10	SMQ4812	Switch, FF/REW	1	
S11	RFA31Z	Switch, Motor	1	
S12	SMQ4882	Switch, Amplifier	1	
		JACKS		
J1,2	RJF1091Z	Jack, Line In/Line Out	1	
J3	QJA0172	Jack, Speaker	2	
J4	RJJ1D10Z	Jack, Headphone	1	
J5	RJJ1D11Z	Jack, Headphone	1	
J6,7	RJJ1F2Z	Jack, AC IN/DC IN	1	⚠
J8,9	RJJ1D7Z	Jack, EXT Mic	2	
		RESISTORS (Value is in OHMS)		
R3	ERD25FJ101	100 1/4W Carbon	1	S
R11	RRD18XJ101	100 1/8W Chip	1	
R12	ERD25FJ103	10k 1/4W Carbon	1	S
R16	RRD18XJ271	270 " "	1	
R18	RRD18XJ332	3.3 k " "	1	
R25	RRD18XJ470	47 " "	1	
R28	RRD18XJ223	22 k " "	1	
R100	RRD18XJ100	10 " "	1	
R101	RRD18XJ104	100 k " "	1	
R107	RRD18XJ153	15 k " "	1	
R110	RRD18XJ473	47 k " "	1	
R111	RRD18XJ332	3.3 k " "	1	
R119	RRD18XJ152	1.5 k " "	1	
R120	RRD18XJ272	2.7 k " "	1	
R123	RRD18XJ333	33 k " "	1	
R124	RRD18XJ472	4.7 k " "	1	
R133	RRD18XJ680	68 " "	1	
R134,135	ERD25FJ151	150 1/4W Carbon	2	S
R136	ERD25FJ123	12 k " "	1	S
R141	ERD25FJ472	4.7 k " "	1	S
R142	RRD18XJ222	2.2 k 1/8W Chip	1	
R200	RRD18XJ100	10 " "	1	
R201	RRD18XJ104	100 k " "	1	
R203	RRD18XJ562	5.6 k " "	1	
R207	RRD18XJ153	15 k " "	1	
R211	RRD18XJ332	3.3 k " "	1	
R218	RRD18XJ472	4.7 k " "	1	
R219	RRD18XJ152	1.5 k " "	1	
R220,221	RRD18XJ272	2.7 k " "	2	
R222	RRD18XJ184	180 k " "	1	
R223	RRD18XJ333	33 k " "	1	
R224	RRD18XJ472	4.7 k " "	1	
R225	RRD18XJ821	820 " "	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R233	RRD18XJ680	68 1/8W Chip	1	
R234,235	ERD25FJ151	150 1/4W Carbon	2	S
R236	ERD25FJ123	12 k " "	1	S
R241	ERD25FJ472	4.7 k " "	1	S
R242	RRD18XJ222	2.2 k 1/8W Chip	1	
R315	RRD18XJ680	68 " "	1	
R316	RRD18XK106	100 M " "	1	
R317,318	RRD18XJ682	6.8 k " "	2	
R324	ERD25FJ4R7	4.7 1/4W Carbon	1	S
R325	ERD25FJ681	680 " "	1	S
R330	ERD25FJ1R0	1 " "	1	S
R331	ERD25FJ2R2	2.2 " "	1	S
R334	ERD25FJ152	1.5 k " "	1	S
R336	ERD25FJ561	560 " "	1	S
R341	ERD25FJ1R0	1 " "	1	S
R343	ERD25FJ103	10 k " "	1	S
R353	ERX1ANJR47	0.47 1W Metal	1	
R355	RRD18XJ101	100 1/8W Chip	1	
R359	ERD50FJ681	680 1/2W Carbon	1	S
R500	ERD25FJ273	27 k 1/4W "	1	S
R501,502	ERD25FJ331	330 " "	2	S
		CAPACITORS (Value is in MICRO FARADS except P.P=PICO FARADS)		
C1	ECKD1H103MD	0.01 50V Ceramic	1	
C2	ECUX1H102MD	0.001 " Chip	1	
C3	ECCD1H150KC	15 P " Ceramic	1	
C4	ECKD1H103MD	0.01 " "	1	
C5	ECCD1H100KC	10 P " "	1	
C6	ECCD1H050CC	5 P " "	1	
C7	ECCD1H100KC	10 P " "	1	
C9	ECCD1H070DC	7 P " "	1	
C10	ECKD1H102ZF	0.001 " "	1	
C11	ECCD1H221K	220 P " "	1	
C12	ECEA1HS0R1	0.1 " Electrolytic	1	
C13	ECKD1H103ZF	0.01 " Ceramic	1	
C14	ECCD1H050CC	5 P " "	1	
C15	ECUX1H103MD	0.01 " Chip	1	
C16	ECEA1CS330	33 16V Electrolytic	1	S
C17	ECKD1H103ZF	0.01 50V Ceramic	1	
C18	ECFT1E223MD	0.022 25V Semi-Conductor	1	
C19	ECEA1HS100	10 50V Electrolytic	1	S
C20	ECUX1H223MD	0.022 " Chip	1	
C21	ECFT1E103MD	0.01 25V Semi-Conductor	1	
C22	ECUX1E104MD	0.1 " Chip	1	
C23	ECFT1E683MD	0.068 25V Semi-Conductor	1	
C24	ECEA1AS101	100 10V Electrolytic	1	S
C25	ECUX1H331K	330 P 50V Chip	1	
C26	ECEA25Z4R7	4.7 25V Electrolytic	1	S
C27	ECFT1E473MD	0.047 " Semi-Conductor	1	
C28	ECUX1H470KC	47 P 50V Chip	1	
C29	ECUX1H471K	470 P " "	1	
C30	ECEA25Z4R7	4.7 25V Electrolytic	1	S
C31,32	ECEA50Z1	1 50V "	2	S
C33,34	ECUX1H153MD	0.015 " Chip	2	
C35	ECEA1AS470	47 10V Electrolytic	1	S

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C36	ECEA50Z1	1 50V Electrolytic	1	S
C37	ECEA1HSR22	0.22 " "	1	
C39	RCQP2A471JZ	470 P 100V Polyester	1	
C40	ECCD1H560K	56 P 50V Ceramic	1	
C70	ECCD1H331K	330 P " "	1	
C100	ECEA1HS100	10 " Electrolytic	1	S
C101	ECFT1E333KD	0.033 25V Semi-Conductor	1	
C102	ECUX1H471K	470 P 50V Chip	1	
C103	ECUX1H681KB	680 P " "	1	
C104	ECEA1AS470	47 10V Electrolytic	1	S
C105	ECEA1HSR33	0.33 50V "	1	
C107	ECFT1E472KA	0.0047 25V Semi-Conductor	1	
C108	ECEA1HSR33	0.33 50V Electrolytic	1	
C109	ECQG05104JZ	0.1 " Polyester	1	
C111	ECFT1E333KD	0.033 25V Semi-Conductor	1	
C112	ECUX1H102MD	0.001 50V Chip	1	
C113	ECEA1HS100	10 " Electrolytic	1	S
C114	ECUX1E473MD	0.047 25V Chip	1	
C116	ECEA1HS100	10 50V Electrolytic	1	S
C117	ECEA25Z4R7	4.7 25V "	1	S
C118	ECUX1E473MD	0.047 " Chip	1	
C119	ECUX1E104MD	0.1 " "	1	
C120	ECUX1H153MD	0.015 50V "	1	
C122	EXUX1E683MD	0.068 25V "	1	
C123	ECUX1E473MD	0.047 " "	1	
C124	ECEA1HSR33	0.33 50V Electrolytic	1	
C125	ECUX1H152MD	0.0015 " Chip	1	
C126	ECUX1H332MD	0.0033 " "	1	
C127	ECEA1AS101	100 10V Electrolytic	1	S
C128	ECBS1H102KB	0.001 50V Ceramic	1	
C129	ECEA1AS101	100 10V Electrolytic	1	S
C132	ECCD1H220KC	22 P 50V Ceramic	1	
C133	ECBS1C103NY	0.01 16V "	1	
C134	ECEA1AS101	100 10V Electrolytic	1	S
C135	ECEA1AS102	1000 " "	1	S
C136	ECQG05224JZ	0.22 50V Polyester	1	
C137	ECBT1C223MY	0.022 16V Ceramic	1	
C138	ECEA1HS0R1	0.1 50V Electrolytic	1	
C139	ECBS1E332MX	0.0033 25V Ceramic	1	
C140	ECFT1E223MD	0.022 " Semi-Conductor	1	
C141	ECEA50Z1	1 50V Electrolytic	1	S
C142	ECEA50Z3R3	3.3 " "	1	S
C143	ECEA50Z1	1 " "	1	S
C144	ECEA1HS100	10 " "	1	S
C145	ECBS1E152MX	0.0015 25V Ceramic	1	
C146	ECEA1HSR22	0.22 50V Electrolytic	1	
C147	ECKD1H681KB	680 P " Ceramic	1	
C200	ECEA1HS100	10 " Electrolytic	1	S
C201	ECFT1E333KD	0.033 25V Semi-Conductor	1	
C202	ECUX1H471K	470 P 50V Chip	1	
C203	ECUX1H681KB	680 P " "	1	
C204	ECEA1AS470	47 10V Electrolytic	1	S
C205	ECEA1HSR33	0.33 50V "	1	
C207	ECFT1E472KA	0.0047 25V Semi-Conductor	1	
C208	ECEA1HSR33	0.33 50V Electrolytic	1	
C209	ECQG05104JZ	0.1 " Polyester	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C211	ECFT1E333KD	0.033 25V Semi-Conductor	1	
C212	ECUX1H102MD	0.001 50V Chip	1	
C213	ECEA1HS100	10 " Electrolytic	1	S
C214	ECUX1E473MD	0.047 25V Chip	1	
C216	ECEA1HS100	10 50V Electrolytic	1	S
C217	ECEA25Z4R7	4.7 25V "	1	S
C218	ECUX1E473MD	0.047 " Chip	1	
C219	ECUX1E104MD	0.1 " "	1	
C220	ECUX1H153MD	0.015 50V "	1	
C222	ECUX1E683MD	0.068 25V "	1	
C223	ECUX1E473MD	0.047 " "	1	
C224	ECEA1HSR33	0.33 50V Electrolytic	1	
C225	ECUX1H152MD	0.0015 " Chip	1	
C226	ECUX1H332MD	0.0033 " "	1	
C227	ECEA1ES101	100 25V Electrolytic	1	S
C228	ECBS1H102KB	0.001 50V Ceramic	1	
C229	ECEA1AS101	100 10V Electrolytic	1	S
C232	ECCD1H220KC	22 P 50V Ceramic	1	
C233	ECBS1C103NY	0.01 16V "	1	
C234	ECEA1AS101	100 10V Electrolytic	1	S
C235	ECEA1AS102	1000 " "	1	S
C236	ECQG05224JZ	0.22 50V Polyester	1	
C237	ECBT1C223MY	0.022 16V Ceramic	1	
C238	ECEA1HS0R1	0.1 50V Electrolytic	1	
C239	ECBS1E332MX	0.0033 25V Ceramic	1	
C240	ECFT1E223MD	0.022 " Semi-Conductor	1	
C241	ECEA50Z1	1 50V Electrolytic	1	S
C242	ECEA50Z3R3	3.3 " "	1	S
C243	ECEA50Z1	1 " "	1	S
C244	ECEA1HS100	10 " "	1	S
C245	ECBS1E152MX	0.0015 25V Ceramic	1	
C246	ECEA1HSR22	0.22 50V Electrolytic	1	
C247	ECKD1H681KB	680 P " Ceramic	1	
C300	ECEA1HS0R1	0.1 " Electrolytic	1	
C301	ECEA1HSR22	0.22 " "	1	
C302	ECEA1AS470	47 10V "	1	S
C308	ECEA1AS471	470 " "	1	S
C309	ECEA1AS221	220 " "	1	S
C316	ECEA1AS471	470 " "	1	S
C317	ECQG05224JZ	0.22 50V Polyester	1	
C318	ECEA1AS471	470 10V Electrolytic	1	S
C319	ECEA1EU471	470 25V "	1	S
C320	ECEA1ES220	22 25V "	1	S
C321	ECBS1C103NY	0.01 16V Ceramic	1	
C322,323	ECCD1H101K	100 P 50V "	2	
C324	RCQP2A392JZ	3900 P 100V Polyester	1	
C325	RCQP2A152JZ	1500 P " "	1	
C326	ECFT1E683MD	0.068 25V Semi-Conductor	1	
C327	ECEA1AS221	220 10V Electrolytic	1	S
C328,329	ECBS1E332MX	0.0033 25V Ceramic	2	
C330	ECBS1E682MX	0.0068 " "	1	
C331	ECEA1EU332	3300 25V Electrolytic	1	S
C332~335	ECKD1H103ZF	0.01 50V Ceramic	4	
C336	ECEA1HS100	10 " Electrolytic	1	S
C338	ECEA1HS100	10 " "	1	S
C340	ECUX1H223ZF	0.022 " Chip	1	

RX-C50S DEUTSCH

■ TECHNISCHE DATEN

Allgemeines:

Stromversorgung: Wechselstrom: 220 V, 50/60 Hz
Batterien: 12 V (acht Trockenbatterien der Größe "C": National UM-2 o.ä.)
Kraftwagenbatterie: über den Kraftwagenadapter RP-952 (Sonderzubehör) anschließbar

Leistungsaufnahme: 30 W (bei Netzbetrieb)

Ausgangsleistung: max. 12 W (2× 6 W) eff. 10% THD. 17 W MPO.

Lautsprecher: Tieftonlautsprecher: dynamischer PM-Lautsprecher, ∅8 cm (3Ω)
Hochtonlautsprecher: dynamischer PM-Lautsprecher, ∅2 cm (2 kΩ)

Eingangsspannungen: MIC: Empfindlichkeit 0,25 mV, Mikrofonimpedanz 200~600Ω (Empfehlung Mikrophon RP-8135)
LINE IN: Empfindlichkeit 200 mV/mind. 47 kΩ
DC IN: 13,2 V

Ausgangsimpedanzen: LINE OUT: Empfindlichkeit 360 mV/max. 4,7 kΩ
Speaker: 3Ω
HEADPHONES: 32Ω

Abmessungen (B×H×T): Gesamtsumme Grösse 432×133×166 mm
Hauptsächlich 243×133×166 mm
Lautsprecher Schachtel 96×128×143 mm

Gewicht (ohne Batterien): 4,5 kg

Empfangsteil:

Wellenbereiche: UKW: 87,5~108 MHz
AM: 520~1610 kHz (577~186 m)

Zwischenfrequenz: UKW: 10,7 MHz
AM: 455 kHz

Empfindlichkeit: UKW: 3,6μV bei 50 mW Ausgangsleistung
AM: 80μV/m bei 50 mW Ausgangsleistung

Tonbandteil:

Frequenzgang: 40~12.000 Hz (Normalband)
40~14.000 Hz (CrO_2-Band)
40~15.000 Hz (Reineisenband)

Aufnahmesystem: Wechselstrom-Vormagnetisierung, Wechselstromlöschung

Bandgeschwindigkeit: 4,8 cm/s

Gleichlaufschwankungen: 0,07% bewertet (WRMS)

Spieldauer: 1 Stunde mit Cassette C-60

Spurlage: Stereoaufnahme und -wiedergabe auf 4 Spuren/2 Kanälen

Änderungen vorbehalten.

BEZEICHNUNGEN IN DER SCHEMATISCHEN DARSTELLUNG

Bemerkungen:

1. S1-1, S1-2: Wellenbereichsschalter auf „FM". (1=FM, 2=AM)
2. S2-1, S2-2: Betriebsart-/Schwebungsunterdrückungsschalter auf „STEREO/II". (1=STEREO/II, 2=MONO/I)
3. S3-1~S3-6: Bandsortenwähler auf „NORMAL". (1=NORMAL, 2=CrO_2, 3=METAL)
4. S4-1~S4-6: Funktionsschalter auf „TAPE". (1=TAPE, 2=RADIO, 3=LINE)
5. S5: Dolbyschalter auf „OUT". (1 . . . OUT, 3 . . . IN)
6. S7-1~S7-10: Aufnahme-/Wiedergabeschalter auf „Wiedergabe". (1 . . . Wiedergabe, 3 . . . Aufnahme)
7. S8: Wahlschalter für Gleichstrom- oder Wechselstrombetrieb auf „DC IN".
8. S10: Schnellvorlauf-, Rückspultaste auf „OFF".
9. S11: EIN/AUS-Schalter des Motors auf „OFF".
10. S12: Lautsplecher-Schalter
11. VR1, 2: Lautstärkeregler.
    VR3: Baßregler.
    VR4: Höhenregler.
    VR5, 14: RW zur Einstellung der Aufnahme-/Wiedergabeschalter.
    VR6, 7: Regler für den Aufnahme-Vormagnetisierungsstrom
    VR8: Spannungsregler zur Einstellung des Löschstroms.
    VR9: Spannungsregler zur Einstellung des Anzeigepegels.
    VR11: Einstellung der spannungsgesteuerten Oszillatorfrequenz.
    VR12, 13: Spannungsregler zur Einstellung der Wiedergabeverstärkung.
12. Die Markierung (▼) bezeichnet einen Meßpunkt, z.B. ▼=Meßpunkt 1.
13. Alle Gleichspannungen sind mit einem Elektronikvoltmeter vom negativen Batterieanschluß aus zu messen.
    < > . . . Stellung „FM", ( ) . . . Stellung „AM",
    [ ] . . . Stellung „Aufnahme",
14. Batteriestrom: ohne Signal . . . . . 140 mA
    bei maximaler Ausgangsleistung (Radio) . . . . . 1,15 A
    bei maximaler Ausgangsleistung (Cassette) . . . . . 1,2 A
15. Die Markierung (•) bezeichnet einen gedruckten Widerstand.
16. Zur Betriebssicherheit
    Die im Schaltplan mit ⚠ gekennzeichneten Bauteile sind für einen sicheren Betrieb dieses Gerätes besonders wichtig und sollten daher nur durch Originalbauteile ersetzt werden.

VERSTÄRKUNG FREQUENZGANGS REAKTION

Normal: 100 Hz 3±5 dB / 1 kHz 0 dB / 10 kHz 0±6 dB
CrO_2: 100 Hz 3±5 dB / 1 kHz 0 dB / 10 kHz 0±6 dB
Reineisen: 100 Hz 3±5 dB / 1 kHz 0 dB / 10 kHz 0±6 dB

VORMAGNETISIERUNGSSTROM NETZSPANNUNGS
5,0±0,6 mV (Normal)
6,5±0,7 mV (CrO_2)
9,6±0,5 mV (Reineisen)

ABGLEICH

■ VORGANGSWEISE BEIM ABGLEICH

BITTE DIESEN ABSCHNITT VOR DEM ABGLEICH SORGFÄLTIG DURCHLESEN

1. Den Lautstärkeregler in die Maximalposition stellen.
2. Den Baßregler und den Höhenregler in die Mittelposition stellen.
3. Den Wellenbereichsschalter auf AM oder UKW stellen.
4. Den Funktionsschalter auf „radio" stellen.
5. Den Getriebsart-/Oszillator-Schalter auf „Stereo/II".
6. Den „dolby NR schalter auf „OUT".
7. Eine Gleichspannung von 12 V anlegen.
8. Der Signalgeneratorausgang sollte nicht größer sein, als für eine Ausgangsanzeige unbedingt notwendig ist.

■ AM-ABGLEICH

	WELLENBAND	SIGNALGENERATOR oder WOBBELGENERATOR ANSCHLÜSSE	SIGNALGENERATOR oder WOBBELGENERATOR FREQUENZ	STELLUNG DES ABSTIMMREGLERS	MESSGERÄT (ELEKTRONIK-VOLTMETER oder OSZILLOSKOP)	ABGLEICH	BEMERKUNGEN
			AM-ZF-ABGLEICH				
(1)	AM	Aus einem Draht einige Schleifenwindungen bilden und das Signal in die Empfängerschleife abstrahlen.	455 kHz, 30% mod. (Modulationsfrequenz 400 Hz)	Der Abstimmpunkt, wo keine Interferenz auftritt (ungefähr bei 600 kHz).	Ausgangsleistungsmesser parallel zur Lautsprecher-Schwingspule.	T3 (AM-ZF-Abgleich)	Die maximale Ausgangsleistung einstellen.
			AM-HF-ABGLEICH				
(2)	AM	Aus einem Draht einige Schleifenwindungen bilden und das Signal in die Empfängerschleife abstrahlen.	550 kHz	550 kHz	Ausgangsleistungsmesser parallel zur Lautsprecher-Schwingspule.	L2 (AM-Oszillatorspule) (*1) L3 (AM-Antennenspule)	Die maximale Ausgangsleistung einstellen. L3 durch Verschieben am Ferritkern abgleichen.
(3)	AM	〃	1.500 kHz	1.500 kHz	〃	CT4 (AM-Oszillatortrimmer) CT3 (AM-Antennentrimmer)	Die maximale Ausgangsleistung einstellen. Die Schritte (2) und (3) wiederholen.

(*1) Nach beendetem Abgleich ist der Antennenspulenkörper mit Wachs zu befestigen.

■ UKW-ABGLEICH

	WELLENBAND	SIGNALGENERATOR oder WOBBELGENERATOR ANSCHLÜSSE	SIGNALGENERATOR oder WOBBELGENERATOR FREQUENZ	STELLUNG DES ABSTIMMREGLERS	MESSGERÄT (ELEKTRONIK-VOLTMETER oder OSZILLOSKOP)	ABGLEICH	BEMERKUNGEN
			UKW-ZF-ABGLEICH				
(1)	UKW	Über einen 0,001 μF-Kondensator an den Meßpunkt ▼ anschließen. Den negativen Ausgang an den Meßpunkt ▼ anschließen.	10,7 MHz (SWP.)	Der Abstimmpunkt, wo keine Interferenz auftritt (ungefähr bei 90 MHz).	Die Vertikalamplitude des Oszilloskops an den Meßpunkt ▼ anschließen. Den negativen Ausgang an den Meßpunkt ▼ anschließen.	T1 (1. UKW-ZF-Abgleich)	Die Maximalamplitude einstellen. (Siehe Abb. 18.)
(2)	UKW	〃	〃	〃	〃	T4 (2. UKW-ZF-Abgleich)	Die Maximalamplitude einstellen. (Siehe Abb. 19.)
			UKW-HF-ABGLEICH				
(3)	UKW	Über eine künstliche UKW-Antenne an den Meßpunkt ▼ anschließen. Den negativen Ausgang an den Meßpunkt ▼ anschließen.	90 MHz	90 MHz	Ausgangsleistungsmesser parallel zur Lautsprecher-Schwingspule.	L2 (UKW-Oszillatorspule) L1 (UKW-Antennenspule)	(*2) Die maximale Ausgangsleistung einstellen.
(4)	UKW		106 MHz	106 MHz	〃	CT2 (UKW-Oszillatortrimmer CT1 (UKW-Antennentrimmer)	(*2) Die maximale Ausgangsleistung einstellen. Die Schritte (3) und (4) wiederholen.

(*2) Es gibt drei verschiedene Ausgangsfrequenzkurven. Stimmen Sie die Mittelfrequenz ab.

■ KANALTRENNUNGSABGLEICH

PRÜFUNG	UKW-MESSENDER SOURCE-ANSCHLUSS	GERÄTEAN-SCHLUSS (ELEKTRONISCHER ZÄHLER)	EINSTELLUNG	ANGABEN	BEMERKUNGEN
Einstellung des Pilottons	90 MHz, 60 dB	▼ . . . (+) ▼ . . . (−)	VR1	19 kHz	Mit dem elektronischen Zähler den Spannungskonstanthalter (VR1) auf 19 kHz (±150 Hz) einstellen.

■ AUDIO-ABGLEICH

EINSTELLUNG	EINGANG	MESSPUNKT	MESSWERT	EINSTELLPUNKT	BEMERKUNGEN
Azimut	QZZCFM (8 kHz, −20 dB)	SP	Die maximale Ausgangsleistung einstellen.	Azimut-Einstellschraube	bei Wiedergabe
Wiedergabeverstärkung	QZZCFM (315 Hz, 0 dB)	LINE OUT	360 mV±1 dB	VR12 (linker Kanal) VR13 (rechter Kanal)	bei Wiedergabe
LED-Anzeige	QZZCFM (315 Hz, 0 dB)	Anzeige	———	VR9	Stellen Sie VR9 um das rute LED sich verdunkeln zu beginnen
Oszillationsfrequenz für Vormagnetisierung	———	▼ . . . (+) ▼ . . . (−)	67±0,5 kHz	L4	bei Aufnahme: Oszillator→II Bandsortenwähler . . . Reineisen
Löschstrom	für Reineisenband	▼ . . . (+) ▼ . . . (−)	150±10 mV	VR8	bei Aufnahme: Oszillator→II Bandsortenwähler . . . Reineisen
Aufnahme Vormagnetisierungsstrom	für Reineisenband	▼ . . . (linker Kanal) ▼ . . . (rechter Kanal) ▼ . . . (Masse)	Reineisen 9,6±0,5 mV	Reineisen VR6 (linker Kanal) VR7 (rechter Kanal)	bei Aufnahme: Oszillator→II Bandsortenwähler . . . Reineisen
Aufnahme-/Wiedergabe gesamtverstärkung	LINE IN f=1 kHz, −34 dB	LINE OUT	36±8 mV	VR14 (linker Kanal) VR5 (recher Kanal)	1. Auf Aufnahme schalten und den Bandsortenwähler auf „Normal" stellen. 2. Das 1-kHz Signal eines NF-Generators (−34 dB) an die LINE IN anlegen. 3. Das bespielte Band wiedergeben. Kontrollieren, ob der Wert, der an der LINE OUT Buchse vom Elektronikvoltmeter angezeigt wird, 36±8 mV beträgt.

RX-C50S FRANÇAIS

■ SPECIFICATIONS

Généralités:

Alimentation:	c.a. 220 V, 50/60 Hz
	Piles: 12 V
	(Huit piles sèches de dimension C)
	(National UM-2 ou équivalent)
	Batterie pour automobile: avec adaptateur RP-952 automobile en option
Consommation:	30 W (C.A. seulement)
Puissance de sortie:	12 W (6 W×2) . . . RMS (max.)
	17 W . . . MPO (10% THD)
Enceinte acoustique:	Haut-parleur des graves: haut-parleur dynamique 8 cm à aimant fixe (3Ω)
	Haut-parleur des aigus: haut-parleur dynamique 2 cm à aimant fixe (2 kΩ)
Entrée:	MIC: sensibilité 0,25 mV: impédance applicable pour microphone 200 à 600Ω (microphone RP-8135 recommandation)
	ENTREE: sensibilité 200 mV/47 kΩ ou plus
	DC IN: 13,2 V
Sortie:	SORTIE: sensibilité 360 mV/4.7 kΩ ou moins
	Speaker: 3Ω
	HEADPHONE: 32Ω
Dimensions (l×h×Pr) cm:	Totale grandeur 432×133×166 ($17\times5^{1}/_{4}\times6^{9}/_{16}$)"
	Principal 243×133×166 ($9^{9}/_{16}\times5^{1}/_{4}\times6^{9}/_{16}$)"
	Parleur boîte 96×128×143 ($3^{13}/_{16}\times5^{1}/_{16}\times5^{5}/_{8}$)"
Poids kg:	4,5 sans piles

Section radio:

Gamme de fréquence radio:	FM: 87,5 à 108 MHz
	AM: 520 à 1610 kHz (577 à 186 m)
Fréquence intermédiaire:	FM: 10,7 MHz
	AM: 455 kHz
Sensibilité:	FM: 3,6μV pour une sortie de 50 mW
	AM: 80μV/m pour une sortie de 50 mW

Section platine magnétophone:

Réponse de fréquence:	40 à 12.000 Hz (avec bande normale)
	40 à 14.000 Hz (avec bande CrO_2)
	40 à 15.000 Hz (avec bande Métal)
Système d'enregistrement:	Polarisation C.A., effacement C.A.
Vitesse de bande:	4,8 cm/sec.
Pleurage et scintillement:	0.07% (WRMS)
Durée de lecture:	1 heure avec cassette C-60
Pistes:	Enregistrement et lecture stéréo 4 pistes, 2 canaux

Ces spécifications sont sujettes à des changements sans préavis.

SYMBOLES UTILISES DANS LE SCHEMA

Remarques:

1. S1-1, S1-2: Sélecteur de gamme d'onde en position "FM". (1 . . . "FM", 2 . . . "AM")
2. S2-1, S2-2: Commutateur de stéréo-mono/anti-battements en position "STEREO/II". (1 . . . "STEREO/II", 2 . . . "MONO/I")
3. S3-1~S3-6: Sélecteur de bande en position "NORMAL". (1 . . . "NORMAL", 2 . . . "CrO_2", 3 . . . "METAL")
4. S4-1~S4-6: Commutateur de fonction en position "TAPE". (1 . . . "TAPE", 2 . . . "RADIO", 3 . . . "LINE")
5. S5: Commutateur "IN/OUT" du dolby en position "OUT". (1 . . . OUT, 3 . . . IN)
6. S7-1~S7-10: Commutateur enregistrement/lecture en position "lecture". (1 . . . lecture, 3 . . . Enregistrement)
7. S8: Sélecteur C.A./C.C. en position "DC IN".
8. S10: Touche "ON/OFF" du commutateur d'avance rapide-rebobinage en position "OFF".
9. S11: Commutateur "ON/OFF" du moteur en position "OFF".
10. S12: Commutateur en haut-parleur.
11. VR1, 2: Potentiomètre de volume.
    VR3: Commande des graves.
    VR4: Commande des aigus.
    VR5, 14: Commande de réglage de gain de enregistrement/lecture.
    VR6, 7: Contrôle de tension de polarisation à l'enregistrement.
    VR8: Régulateur de tension de réglage du courant d'effacement.
    VR9: Régulateur de tension de réglage du niveau des indicateurs.
    VR11: Réglage de fréquence de l'oscillateur VCO.
    VR12, 13: Régulateur de tension de réglage de gain de lecture.
12. La marque (▼) signale un point de vérification. Ex.: ▼1 =point de vérification 1.
13. La tension C.C. est mesurée au moyen d'un voltmètre électronique à partir de la borne négative de la pile.
    < > . . . Position FM, ( ) . . . Position AM,
    [ ]Position Enregistrement.
14. Courant des piles: Pas de signal . . . . . 140 mA
    Sortie maximum (Radio) 1,15A
    Sortie maximum (Bande) 1,2A
15. La marque (*) signale une résistance imprimée.
16. Remarque importante concernant la sécurité.
    Les pièces marquées ⚠ ont des caractéristiques spéciales, importantes pour la sécurité.
    Lors du remplacement d'une de ces pièces, n'utiliser que les pièces spécifiées par le fabricant.

Totale fréquence réponse

Normale: 100 Hz 3±5 dB / 1 kHz 0 dB / 10 kHz 0±6 dB

CrO_2: 100 Hz 3±5 dB / 1 kHz 0 dB / 10 kHz 0±6 dB

Métal: 100 Hz 3±5 dB / 1 kHz 0 dB / 10 kHz 0±6 dB

Polarisation de tension
5.0±0.6 mV (Normal)
6.5±0.7 mV (CrO_2)
9.6±0.5 mV (Métal)

ALIGNEMENTS

■ INSTRUCTIONS D'ALIGNEMENT

AVANT DE PROCEDER AUX ALIGNEMENTS, LIRE ATTENTIVEMENT CE QUI SUIT

1. Placer le potentiomètre de volume au maximum.
2. Placer les commandes des graves et aigus au centre.
3. Placer le sélecteur de bande sur AM ou FM.
4. Placer le sélecteur de fonctions sur "radio".
5. Placer le Commutateur de mode/anti-battements en position "stéréo/II".
6. Placer le Commutateur "IN/OUT" du dolby NR en position "out".
7. Régler la tension sur 12 V C.C.
8. Régler la sortie du générateur étalonné de façon à ne pas surcharger les circuits.

■ ALIGNEMENT AM

	BANDE	GENERATEUR ETALONNE ou GENERATEUR DE BALAYAGE		POSITION DE L'AIGUILLE SUR LE CADRAN	INDICATEUR (VOLTMETRE ou OSCILLOSCOPE ELECTRONIQUES)	REGLAGE	OBSERVATIONS
		BRANCHEMENTS	FREQUENCE				
		ALIGNEMENT IF sur AM					
(1)	AM	Faire une boucle de plusieurs tours de fil et émettre ls signal dans la boucle du récepteur.	455 kHz (modulation de 30% à 400 Hz)	Point de non-interférence. (à/environ 600 kHz)	Voltmètre branché à la bobine oscillatrice.	T3 (AM IFT)	Régler pour une sortie maximum.
		ALIGNEMENT HF sur AM					
(2)	AM	,,	550 kHz	550 kHz	Voltmètre branché à la bobine oscillatrice.	L2 (bobine d'oscillateur AM) (*1) L3 (bobine d'antenne AM)	Régler pour une sortie maximum en glissant la bobine L3 le long du noyau en ferrite.
(3)	AM	,,	1.500 kHz	1.500 kHz	,,	CT4 (trimmer d'oscillateur AM) CT3 (trimmer d'antenne AM)	Régler pour une sortie maximum. Refaire les étapes (2) et (3).

(*1) Sceller la bobine d'antenne à la cire après avoir achevé l'alignement.

■ ALIGNEMENT FM

	BANDE	GENERATEUR ETALONNE ou GENERATEUR DE BALAYAGE		POSITION DE L'AIGUILLE SUR LE CADRAN	INDICATEUR (VOLTMETRE ou OSCILLOSCOPE ELECTRONIQUES)	REGLAGE	OBSERVATIONS
		BRANCHEMENTS	FREQUENCE				
		ALIGNEMENT IF sur FM					
(1)	FM	Brancher au point ▼1 via 0,001 μF. Côté négatif au point ▼2.	10,7 MHz SWP.)	Point de non-interférence. (à/ environ 90 MHz)	Brancher la sonde vert. de l'oscilloscope au point ▼1 Côté négatif au point ▼2.	T1 (FM 1ère IFT)	Régler pour une amplitude maximum. (Voir fig. 18.)
(2)	FM	,,	,,	,,	,,	T4 (FM 2ème IFT)	Régler pour une amplitude maximum (Voir fig. 19.)
		ALIGNEMENT HF sur FM					
(3)	FM	Brancher au point ▼1 via une antenne fictive FM. Côté négatif au point ▼2.	90 MHz	90 MHz	Voltmètre branché à la bobine oscillatrice.	L2 (bobine d'oscillateur FM) L1 (bobine d'antenne FM)	(*2) Régler pour une sortie maximum.
(4)	FM		106 MHz	106 MHz	,,	CT2 (trimmer d'oscillateur FM) CT1 (trimmer d'antenne FM)	(*2) Régler pour une sortie maximum. Refaire les étapes (3) et (4).

(*2) Il y aura trois réponses de sortie; la syntonisation adéquate est la fréquence du milieu.

■ ALIGNEMENT DE LA SEPARATION

ELEMENT	GENERATEUR DE SIGNAUX FM BRANCHEMENT SUR LA SOURCE	BRANCHEMENT A L'EQUIPMENT (COMPTEUR ELECTRONIQUE)	REGLAGE	SPECIFICATION	REMARQUES
Réglage du signal pilote.	90 MHz, 60 dB	▼3 . . . (+) ▼2 . . . (−)	VR1	19 kHz	Régler VR1 pour 19 kHz (±150 Hz) en effectuant la lecture sur le compteur électronique.

■ ALIGNEMENTS AUDIO

ELEMENT	ENTREE	POINT DE MESURE	SPECIFICATION	POINT DE REGLAGE	OBSERVATIONS
Azimut	QZZCFM (8 kHz, −20 dB)	SP	Régler pour une sortie maximum.	Vis d'azimut	Mode de lecture
Gain de lecture	QZZCFM (315 Hz, 0 dB)	SORTIE	360 mV±1 dB	VR12 (canal gauche) VR13 (canal droit)	Mode de lecture
LED-mètre	QZZCFM (315 kHz, 0 dB)	Mètre	———	VR9	Régler VR9 pour que le LED rouge commence à diminuer.
Fréquence d'oscillation de polarisation	———	▼3 . . . (+) ▼2 . . . (−)	67±0,5 kHz	L4	Mode d'enregistrement Interrupteur anti-battement→II Sélecteur de bande . . . METAL
Courant d'effacement	Utiliser une bande METAL.	▼3 . . . (+) ▼2 . . . (−)	150±10 mV	VR8	Mode d'enregistrement Interrupteur anti-battement→II Sélecteur de bande . . . METAL
Polarisation à l'énregistrement	Utiliser une bande METAL.	▼3 . . . (canal gauche) ▼4 . . . (canal droit) ▼2 . . . (−)	Métal 9,6±0,5 mV	Métal VR6 (canal gauche) VR7 (canal droit)	Mode d'enregistrement Interrupteur anti-battement→II Sélecteur de bande . . . METAL
Enregistrement/ lecture gain	ENTREE f=1 kHz, −40 dB	SORTIE	36±8 mV	VR14 (canal gauche) VR5 (canal droit)	1. Mettre "UNIT" en mode d'enregistrement, et le sélecteur de bande sur "NORMAL". 2. Amener à la borne ENTREE un signal de 1 kHz (−34 dB) de l'oscillateur b.f. 3. Ecouter une bande enregistrée, et vérifier que la valeur à SORTIE sur le voltmètre électronique atteigne 36 mV±8 mV.

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
C341	ECUX1H102MD	0.001 50V Chip	1	
C342	ECFVD1E333MD	0.033 25V Semi-conductor	1	
C343,344	ECBT1C223MY	0.022 " Ceramic	2	
C345	ECBS1E222MX	0.0022 " "	1	
C346	ECUX1H101K	100 P 50V Chip	1	
C349	ECFT1E473MD	0.047 25V Semi-conductor	1	
C350,351	ECCD1H680K	68 P 50V Ceramic	2	
C400	ECEA1HS100	10 " Electrolytic	1	S
		CABINET PARTS		
K1	RYMXC50SXG8	Cabinet Ass'y (Pearl White)	1	
K1	RYMXC50SXG2	Cabinet Ass'y (Metallic Red)	1	
K1	RYMXC50SXG91	Cabinet Ass'y (Metallic Gray)	1	
K1	RYMXC50SXG1	Cabinet Ass'y (Metallic Brown)	1	
K1-1	RKX265Z3	Handle (Pearl White)	1	
K1-1	RKX265Z2	Handle (Metallic Red)	1	
K1-1	RKX265Z1	Handle (Metallic Gray)	1	
K1-1	RKX265Z5	Handle (Metallic Brown)	1	
K1-2	RKX255Z	Arm, Handle	2	
K1-3	RGE70Y1	Cover (Pearl White)	1	
K1-3	RGE70Y2	Cover (Metallic Red)	1	
K1-3	RGE70Y	Cover (Metallic Gray)	1	
K1-3	RGE70Y3	Cover (Metallic Brown)	1	
K1-4	RNW591Z	Washer, Arm	4	
K1-5	XTC3+8CFN	Screw, Handle M'tg	2	
K2	RYF1XC50SXG8	Front Cabinet Ass'y(Pearl White)	1	
K2	RYF1XC50SXG2	Front Cabinet Ass'y(Metallic Red)	1	
K2	RYF1XC50SX91	Front Cabinet Ass'y(Metallic Gray)	1	
K2	RYF1XC50SXG1	Front Cabinet Ass'y(Metallic Brown)	1	
K3	RYF2XC50SXG8	Rear Cabinet Ass'y (Pearl White)	1	
K3	RYF2XC50SXG2	Rear Cabinet Ass'y (Metallic Red)	1	
K3	RYF2XC50SX91	Rear Cabinet Ass'y (Metallic Gray)	1	
K3	RYF2XC50SXG1	Rear Cabinet Ass'y (Metallic Brown)	1	
K3-1	RJC611Z	Spring (-) Side	1	
K3-2	RJC116Z	Terminal (+) Side	1	
K3-3	RJC937Z	Terminal (+) (-) Side	1	
K4	RYPXC50SXG1	Cassette Panel Ass'y(Pearl White)	1	
K4	RYPXC50SXG2	Cassette Panel Ass'y(Metallic Red)	1	
K4	RYPXC50M1	Cassette Panel Ass'y(Metallic Gray)	1	
K4	RYPXC50SXG3	Cassette Panel Ass'y(Metallic Brown)	1	
K5	XEARR175FAY	Telescopic Antenna	1	
K6	RJT781Z	Terminal, Telescopic Antenna	1	
K7	RKK232Z8	Battery Cover (Pearl White)	1	
K7	RKK232Z2	Battery Cover (Metallic Red)	1	
K7	RKK232Z91	Battery Cover (Metallic Gray)	1	
K7	RKK232Z1	Battery Cover (Metallic Brown)	1	
K8	RBD169Z	Knob, Bass & Treble Control	2	
K9	RBD183Z	Knob, Volume L	1	
K10	RBD184Z	Knob, Volume R	1	
K11	XSB3+6FN	Screw, Cabinet Cover M'tg	4	
K12	XTB3+60CFN	Screw, Cabinet Cover M'tg	5	
K13	XSN3+8S	Screw, Telescopic Antenna M'tg	1	
K14	XWA3B	Washer, Telescopic Antenna M'tg	1	
K15	RYM1XC50SX92	SpeakerBoxAss'y(Right)(Pearl White)	1	
K15	RYM1XC50SXG2	SpeakerBoxAss'y(Right)(MetallicRed)	1	
K15	RYM1XC50M91	SpeakerBoxAss'y(Right)(MetallicGray)	1	

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
K15	RYM1XC50SXG1	SpeakerBoxAss'y(Right)(MetallicBrown)	1	
K16	RYM2XC50SX92	SpeakerBoxAss'y(Left)(Pearl White)	1	
K16	RYM2XC50SXG2	SpeakerBoxAss'y(Left)(MetallicRed)	1	
K16	RYM2XC50M91	SpeakerBoxAss'y(Left)(MetallicGray)	1	
K16	RYM2XC50SXG1	SpeakerBoxAss'y(Left)(MetallicBrown)	1	
K17	RKF612Z8	Speaker Box Cover (Pearl White)	2	
K17	RKF612Z2	Speaker Box Cover (Metallic Red)	2	
K17	RKF612Z91	Speaker Box Cover (Metallic Gray)	2	
K17	RKF612Z1	Speaker Box Cover (Metallic Brown)	2	
K18	RJP0F2Y	Plug, Speaker Cord	2	
K19	RUL684Z	Bracket, Lever	2	
K20	RDS4131Z	Spring	2	
K21	RHR116A	Bushing	2	
K22	RKE419Z3	Cord Box Cover (Pearl White)	2	
K22	RKE419Z2	Cord Box Cover (Metallic Red)	2	
K22	RKE419Z1	Cord Box Cover (Metallic Gray)	2	
K22	RKE419Z5	Cord Box Cover (Metallic Brown)	2	
K23	RGE71Z	Lever, Speaker	2	
K24	XTB3+10CFN	Screw, Lever M'tg	2	
K25	XTV3+10G	Screw, Speaker M'tg	12	
K26	XTV3+16GFN	Screw, Box Cover M'tg	8	
K27	RHG597Z	Rubber, Tweeter	2	
		ELECTRICAL PARTS		
E1	RZAXC50N	Dial Chassis Ass'y	1	
E2	RUB266Y	R/P Lever	1	
E3	RDD328Z	Drum, Dial	1	
E4	RDR21-1	Pulley, Dial	2	
E5	RDY43Z	Shaft, Pulley	2	
E6	RDS3060A	Spring, Dial	1	
E7	RDZ03Y	Cord, Dial (70cm)	1 ROLL	
E8	RDP851Z	Pointer, Dial	1	
E9	RJS3M1Z	Socket, 3 Pin	1	
E10	RJS5M2Z	Socket, 5 Pin	2	
E11	RJS6M2Z	Socket, 6 Pin	1	
E12	RJS8M2Z	Socket, 8 Pin	1	
E13	RJS10M1Z	Socket, 10 Pin	1	
E14	RJS2L1Z	Socket, 2 Pin	1	
E15	RJS3L3Z	Socket, 3 Pin	1	
E16	RJS6L1Z	Socket, 6 Pin	1	
E17	RJS8L3Z	Socket, 8 Pin	1	
E18	RJP2G1Z	Plug, 2 Pin	1	
E19	RJP3G4Z	Plug, 3 Pin	1	
E20	RJP6G1Z	Plug, 6 Pin	1	
E21	RJP8G4Z	Plug, 8 Pin	1	
E22	RJP11G5Z	Plug, 11 Pin	1	
E23	RJP13G3Z	Plug, 13 Pin	1	
E24	RJP13G5Z	Plug, 13 Pin	1	
E25	WM063X	Mic	1	
E26	RHG557Z	Rubber, Mic	1	

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
E27	RBT158Z	Knob, Tuning	1	
E28	RBS204Z	Knob, Tape, Mode etc.	3	
E29	RBC415Z	Button Dolby NR	1	
E30	RBS205Z	Knob, Band	1	
E31	XSN26+5	Screw, Dial Chassis M'tg	1	S
E32	XWA26B	Washer, Dial Chassis M'tg	1	S
E33	XSN3+6S	Screw, Knob M'tg	1	S
E34	XWA3B	Washer, Knob M'tg	1	S
E35	XWG3	Washer, Knob M'tg	1	S
E36	XTV3+12G	Screw, Deck & Circuit Board M'tg	9	
E37	XTV3+8BFN	Screw, Heat Sink & Transformer M'tg	3	
E38	RJT707Z	Terminal, Socket	19	
E40	XBA2C16TR0	Fuse, T1.6A	1	⚠
E41	QTF1054	Holder, Fuse	2	⚠
		ACCESSORY		
	RJA20Z	Power Cord, AC	1	⚠
	RJN23Z	Cassette Tape	1	
		PACKING MATERIALS		
	XZB45X40A04	Polyethylene Cover, Main Unit	1	S
	RPH401Z	Soft Sheet	1	
	XZB26X35A04	Polyethylene Cover, Speaker Unit	2	S
	RPN9426W	Pad Complete	1	
	RPK1578Z	Gift Box	1	
	XZB10X25A04	Polyethylene Cover, AC Power Cord	1	
		PRINTED MATERIAL		
	RQX4122Z	Instruction Book	1	