

Service Manual

Radio Cassette
RX-5120LS

FM/LW/MW/SW Stereo Radio Cassette



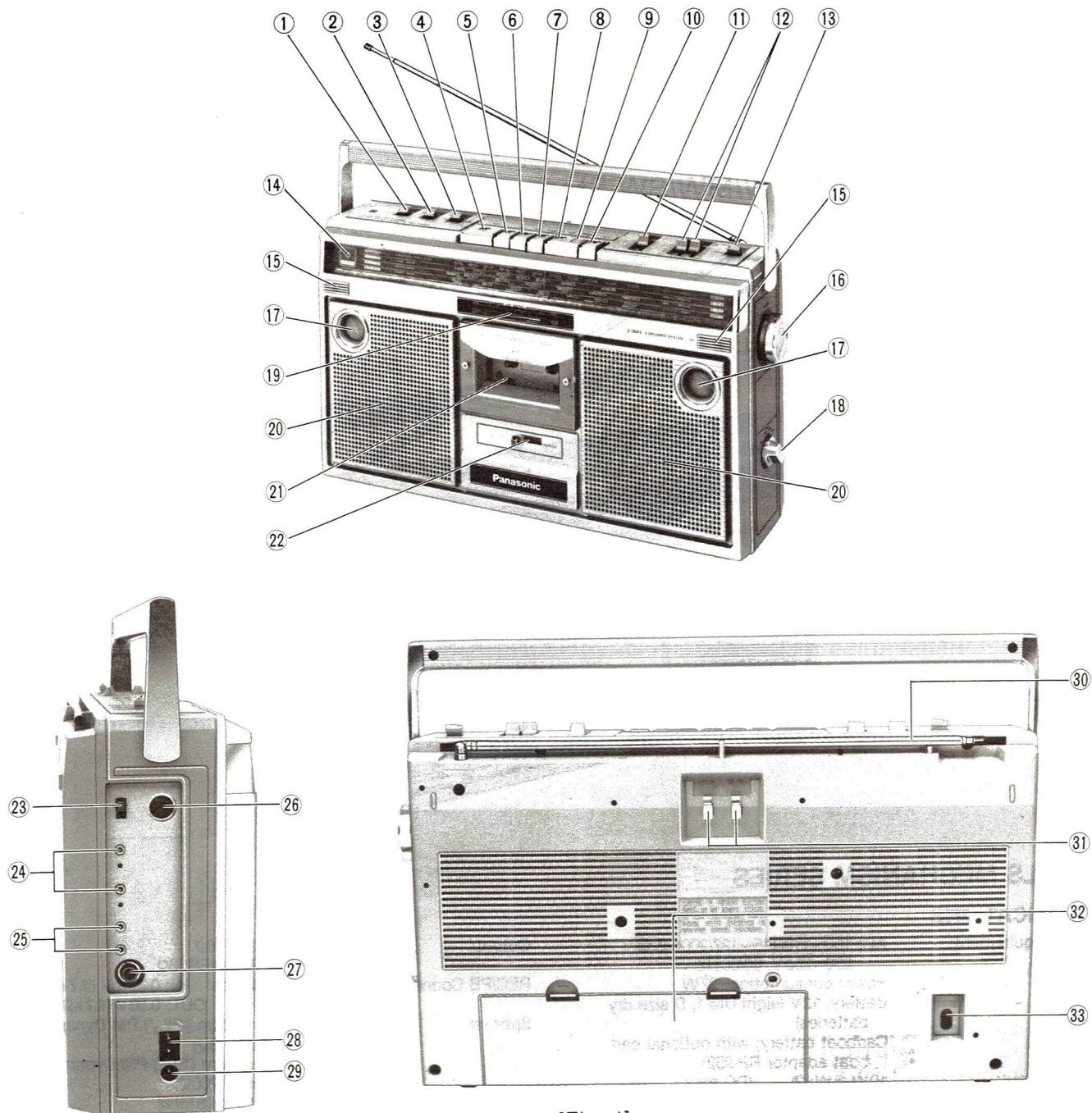
RX-1750LS MECHANISM SERIES

■ SPECIFICATIONS

Power Requirement:	AC; 100~110/115~127/200~220/ 230~250V, 50/60Hz Power consumption; 27W Battery, 12V (eight-UM-1, D size dry batteries) Car/boat battery; with optional car/ boat adaptor RP-952	Output:	EXT SP; 3~8Ω HEADPHONES; 8Ω
Power Output:	10W (5W×2).....(DC max.)	REC/PB Connection:	5P DIN type IN; 0.32mV (2.7kΩ over) OUT; 0.36V (4.7kΩ under)
Frequency Range:	70~11,000Hz (with normal tape) 70~13,000Hz (with CrO ₂ tape) 70~13,000Hz (with FeCr tape)	Speaker:	Woofer; 12cm (4 ²³ / ₃₂ ") PM Dynamic speaker (3Ω) Tweeter; 3cm (1 ¹⁷ / ₃₂ ") PM Dynamic speaker (200Ω)
Recording System:	AC bias, MAGNET erase	Radio Frequency Range:	FM; 87.5~108MHz LW; 145~285kHz (2060~1060m) MW; 520~1610MHz (577~186m) SW; 5.9~18MHz (50.8~16.7m)
Tape Speed:	4.8cm/s, (1 ⁷ / ₈ ips)	Intermediate Frequency:	FM; 10.7MHz AM; (LW/MW/SW); 455kHz
Wow and Flutter:	0.35% (RMS)	Sensitivity:	FM; 5μV/50mW output LW; 160μV/m/50mW output MW; 75μV/m/50mW output SW; 6μV/50mW output
Program Time:	1 hour with C-60 cassette tape	Dimensions:	467mm(W)×261mm(H)×148mm(D) [18 ³ / ₈ "(W)×10 ¹ / ₄ "(H)×5 ⁷ / ₈ "(D)]
Track System:	4-track stereo recording and playback	Weight:	5.2kg (11 lb. 7 oz.) without batteries
Input:	MIC; sensitivity 0.32mV/applicable microphone impedance 200~600Ω (recommended microphone RP-8135) DC IN; 13.2V		

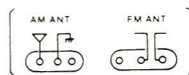
Specifications are subject to change without notice.

LOCATION OF CONTROLS AND COMPONENTS



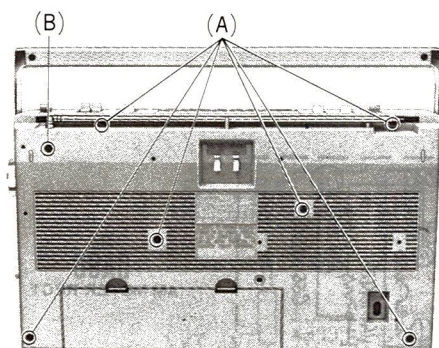
[Fig. 1]

- | | | |
|---------------------------|--|--|
| ① Tape selector | ⑭ FM stereo indicator | ②⑥ DIN connection jack
IN 0.32mV (2.7k Ω over) OUT 0.36V (4.7k Ω under) |
| ② Meter selector | ⑮ Built-in microphones | ②⑦ Headphone jack (8 Ω) |
| ③ Function selector | ⑯ Tuning control | ②⑧ AC socket |
| ④ Eject button | ⑰ Tweeters (3cm, 200 Ω) | ②⑨ Car adaptor connection jack (DC IN 13.2V) |
| ⑤ Stop button | ⑱ Band selector | ③① Telescopic antenna |
| ⑥ Fast forward/cue button | ⑲ LED Meters | ③② External antenna terminals |
| ⑦ Rewind/review button | ⑳ Woofers (12cm, 3 Ω) | |
| ⑧ Playback button | ㉑ Cassette compartment | |
| ⑨ Record button | ㉒ Tape counter and reset button | |
| ⑩ Pause button | ㉓ Beat proof switch | |
| ⑪ Tone control | ㉔ Microphone jack (0.32mV) | |
| ⑫ Volume control (L • R) | ㉕ External speaker jacks (3~8 Ω) | |
| ⑬ FM Mode selector | | |

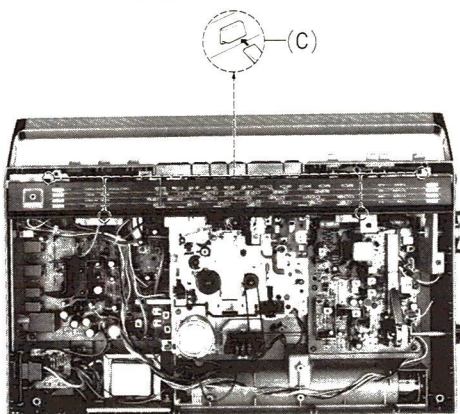


- | |
|------------------------|
| ③③ Battery compartment |
| ③④ AC voltage selector |

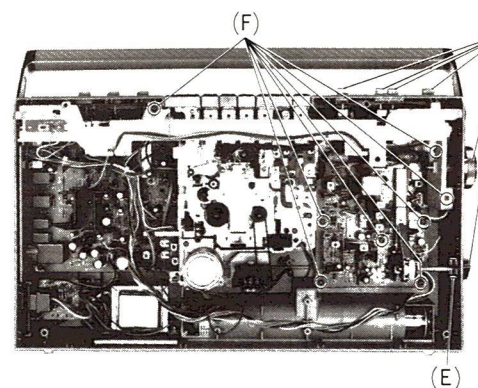
DISASSEMBLY INSTRUCTIONS



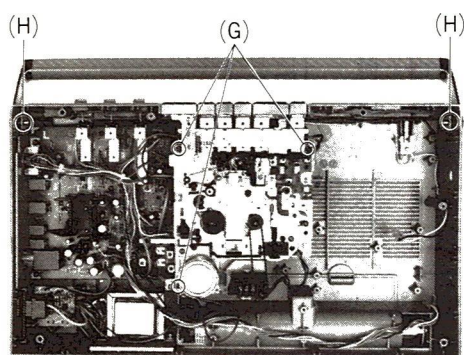
[Fig. 2]



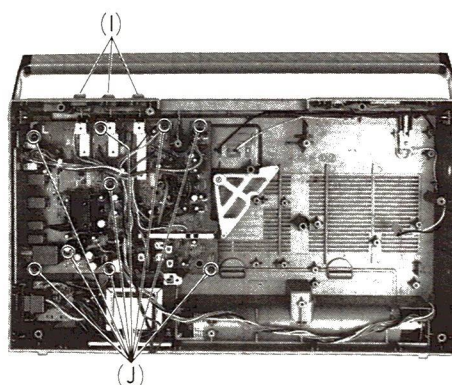
[Fig. 3]



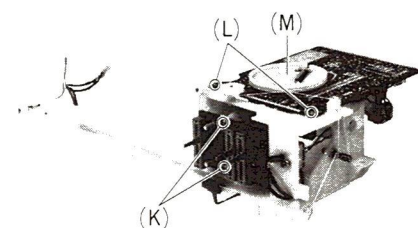
[Fig. 4]



[Fig. 5]



[Fig. 6]

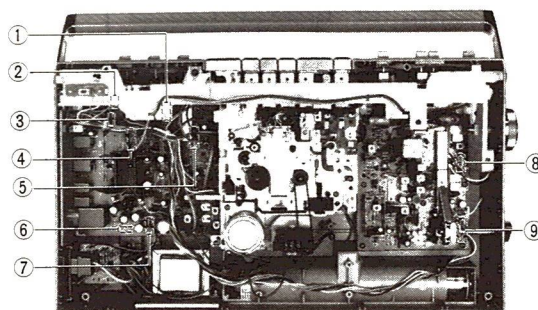


[Fig. 7]

Procedure	To remove —.	Remove —.	Shown in fig. —.
1	Front panel	Screw 3.5×50, (A)×6	2
	Telescopic antenna	Screw 3×15, (B)×1	
2	Dial scale	Dial chassis (C)	3
3	Radio circuit board	Knob (D)×6, Circlip (E)×1, Red Screw 3×12, (F)×8	4
4	Mechanism	Red Screw 3×12, (G)×3	5
	Handle	Handle holding spring (H)×2	
5	Audio circuit board	Knob (I)×3, Red Screw 3×12, (J)×9	6
6	Tone circuit board	Screw 3×10, (K)×2	7
7	Dial chassis	Screw 3×10, (L)×2, Screw 2.6×8, (M)×1	7

■ CONNECTOR POSITIONS

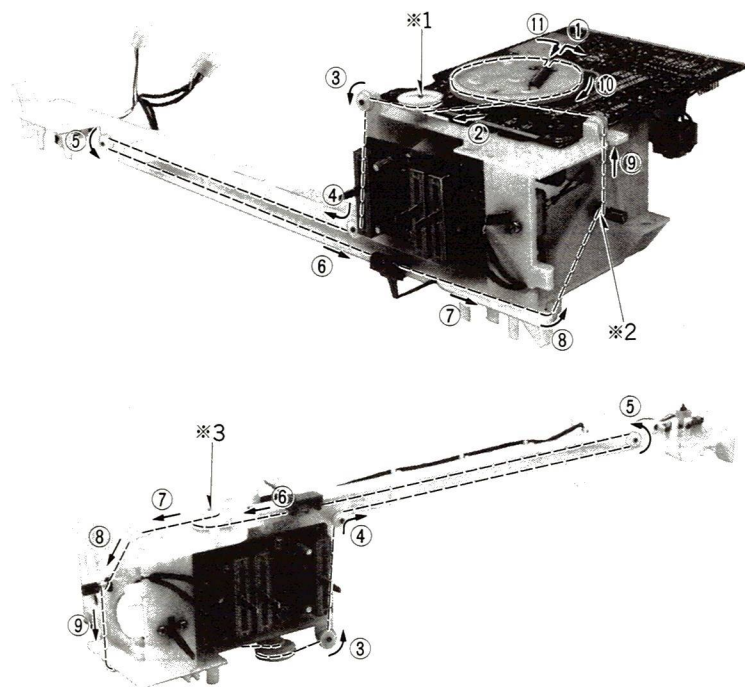
- ① LED meter circuit board connector
- ② Stereo eye connector
- ③ Built-in microphones connector
- ④ Tone circuit board connector
- ⑤ Record/playback head connector
- ⑥ Speakers connector
- ⑦ Power supply connector
- ⑧ External antenna connector
- ⑨ Radio circuit board connector



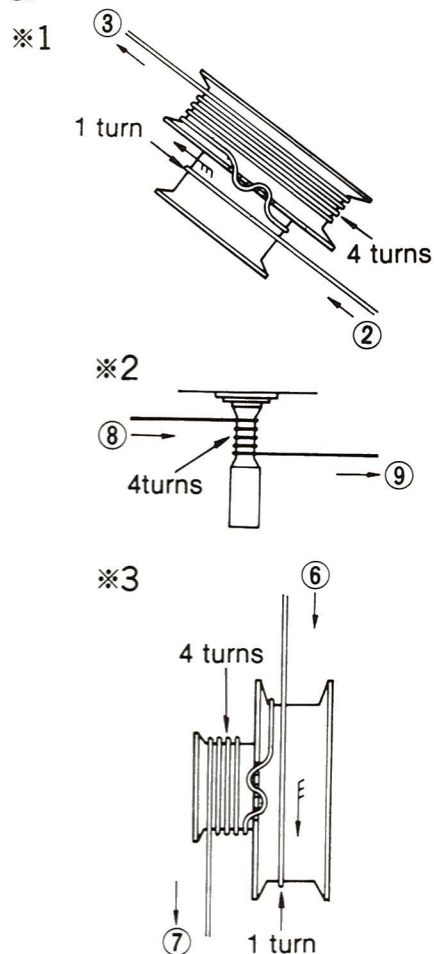
[Fig. 8]

DIAL THREADING

■ DIAL CORD LENGTH: 2000mm

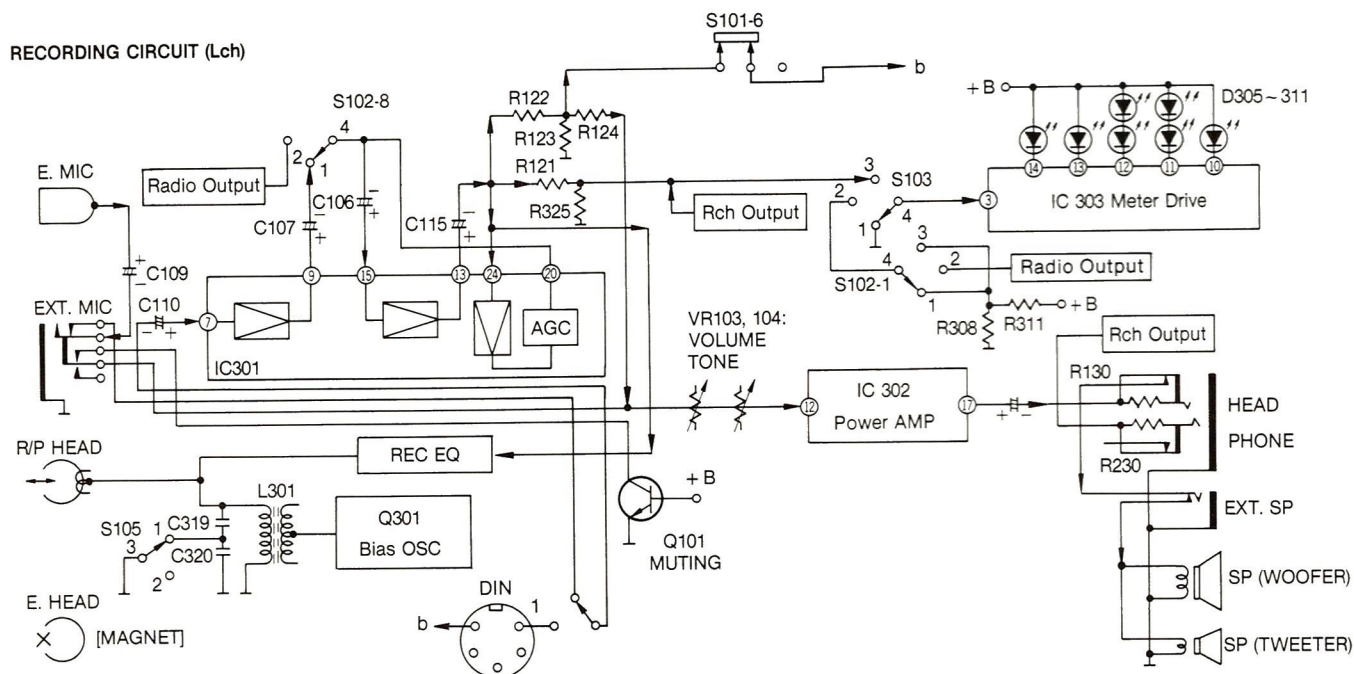


[Fig. 9]

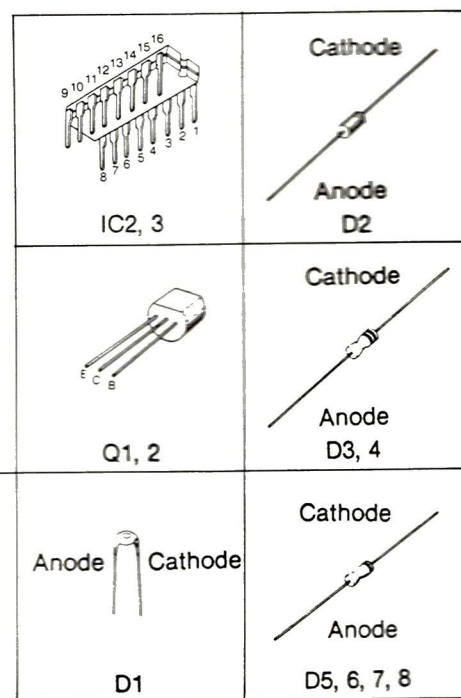
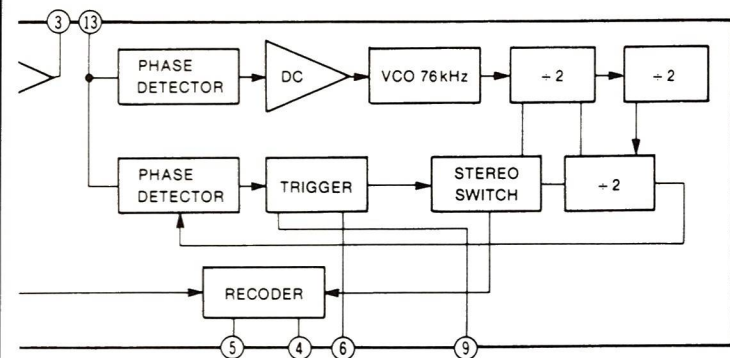
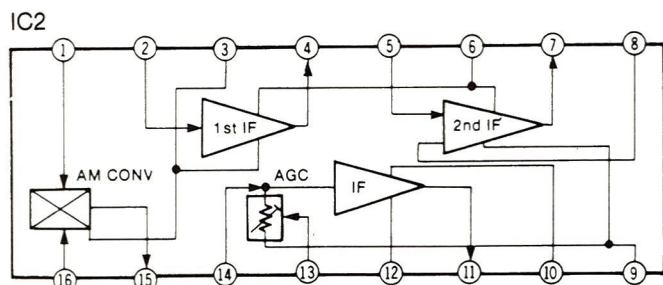
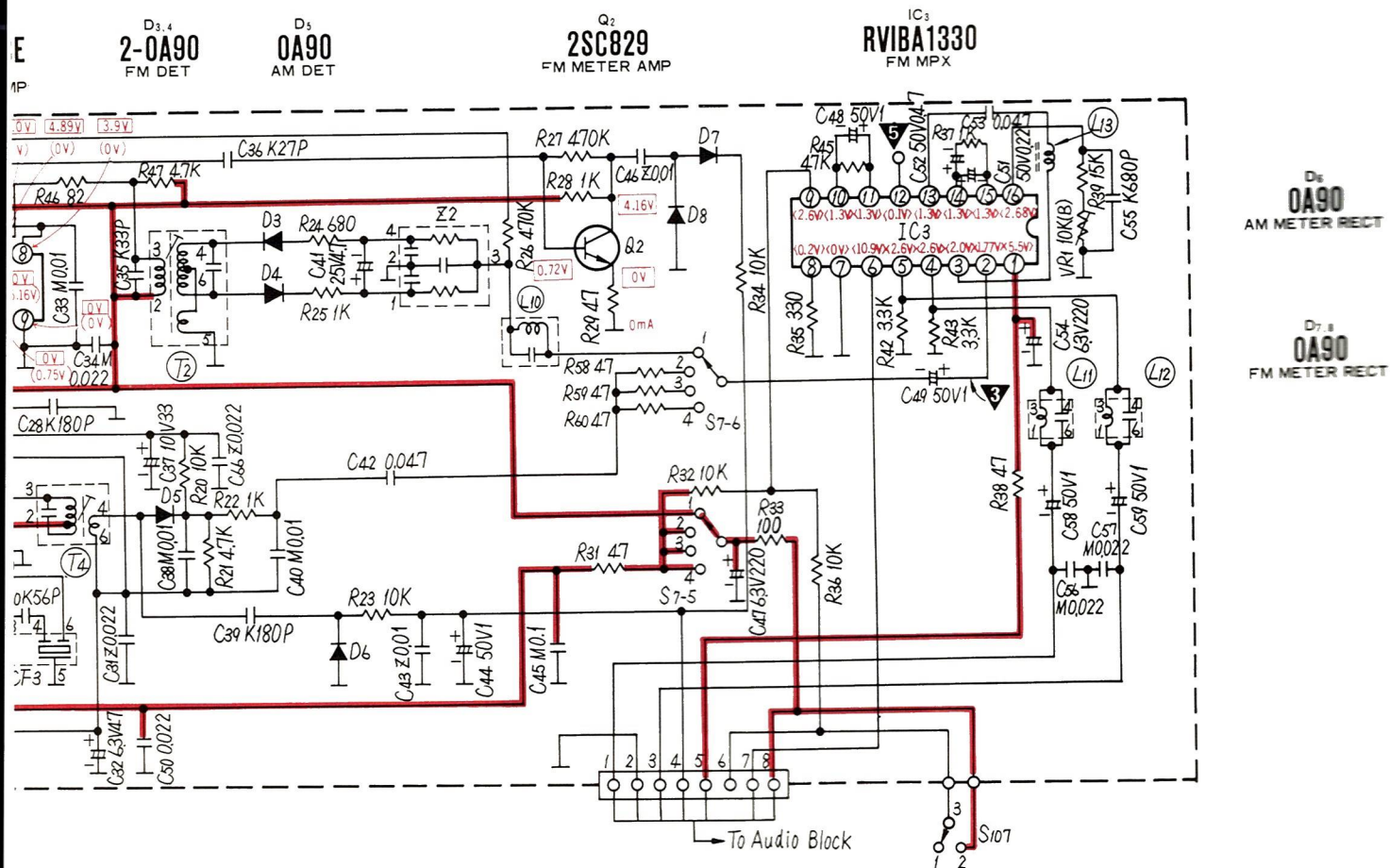


BLOCK DIAGRAM OF ELECTRICAL CIRCUITS

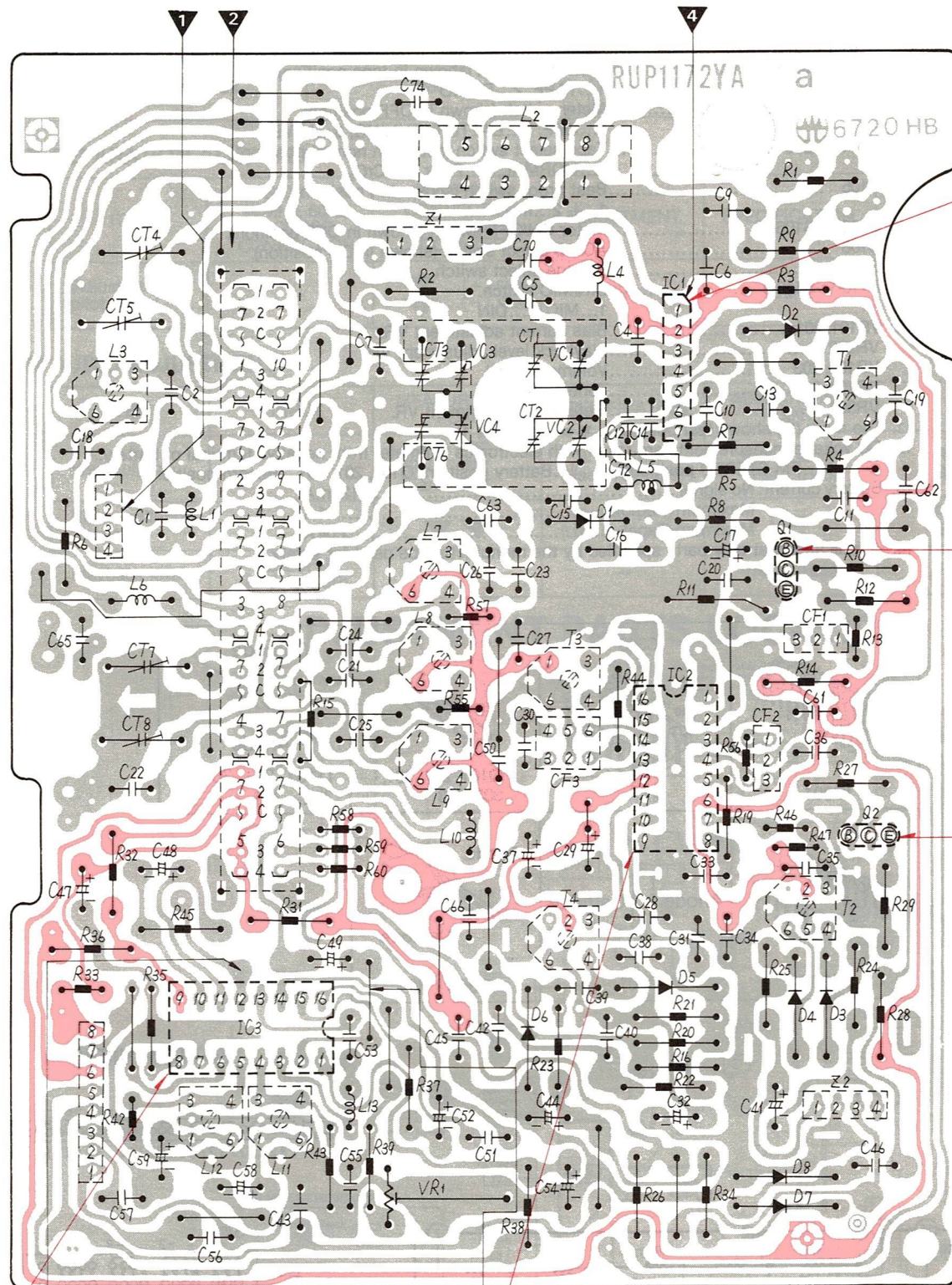
RECORDING CIRCUIT (Lch)



DIO CIRCUIT) MODEL RX-5120LS



RADIO CIRCUIT BOARD



IC1

FM	
1	3.42V
2	4.16V
3	4.15V
4	0V
5	4.45V
6	4.41V
7	3.49V

Q1

FM	
C	4.58V
B	1.15V
E	0.46V
Ie	970mA

Q2

FM	
C	4.16V
B	0.72V
E	0V
Ie	0mA

IC3

FM STEREO POSITION

1	5.5V	5	2.6V	9	2.6V	13	1.3V
2	1.77V	6	10.9V	10	1.3V	14	1.3V
3	2.0V	7	0V	11	1.3V	15	1.3V
4	2.6V	8	0.2V	12	0.1V	16	2.68V

IC2

1	FM 0.5V	5	FM 3.9V	9	FM 0V	13	FM 0V
	AM 5.1V		AM 0V		AM 0V		AM 0.6V
2	FM 0.7V	6	FM 5.0V	10	FM 0V	14	FM 0V
	AM 0V		AM 0V		AM 0.75V		AM 0.7V
3	FM 0V	7	FM 4.89V	11	FM 0V	15	FM 0V
	AM 0V		AM 0V		AM 5.16V		AM 5.16V
4	FM 3.3V	8	FM 3.9V	12	FM 0V	16	FM 0V
	AM 0V		AM 0V		AM 5.17V		AM 0.7V

ALIGNMENTS

■ ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Set volume control to maximum.
2. Set tone control to center.
3. Set band switch to MW, LW, SW or FM.
4. Set tape/radio/sleep selector to radio.
5. Set power source voltage to 12V DC.
6. Output of signal generator should be no higher than necessary to obtain an output reading.

■ LW, MW, AND SW ALIGNMENT

BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
AM IF ALIGNMENT						
(1)	MW	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.	Output meter across voice coil	T3 (AM 1st IFT) T4 (AM 2nd IFT) Adjust for maximum output.
LW-RF ALIGNMENT						
(2)	LW	"	145 kHz [11.2mm (¹⁵ / ₃₂ ")]	Output meter across voice coil	L7 (LW OSC Coil) (* 1) L2 (LW ANT Coil)	Adjust for maximum output. Adjust L2 by moving coil bobbin along ferrite core.
(3)	LW	"	285 kHz [166 mm (⁶ ¹⁷ / ₃₂ ")]	"	CT6 (LW OSC Trimmer) CT4 (LW ANT Trimmer)	Adjust for maximum output. Repeat steps (2) and (3).
(*1) Cement antenna bobbin with wax after completing alignment.						
MW-RF ALIGNMENT						
(4)	MW	"	550 kHz [12.9 mm (¹ / ₂ ")]	Output meter across voice coil	L8 (MW OSC Coil) (* 2) L2 (MW ANT Coil)	Adjust for maximum output. Adjust L2 by moving coil bobbin along ferrite core.
(5)	MW	"	1,500 MHz [171.1 mm (⁶ ²³ / ₃₂ ")]	"	CT7 (MW OSC Trimmer) CT3 (MW ANT Trimmer)	Adjust for maximum output. Repeat steps (4) and (5).
(*2) Cement antenna bobin with wax after completing alignment.						
SW-RF ALIGNMENT						
(6)	SW	Connect to EXT ant. terminal through ceramic capacitor (10 PF). Negative side to earth.	6 MHz [8 mm (⁵ / ₁₆ ")]	Output meter across voice coil	L9 (SW OSC Coil) L3 (SW ANT Coil)	Adjust for maximum output.
(7)	SW		18 MHz [188 mm (⁷ ¹³ / ₃₂ ")]	"	CT8 (SW OSC Trimmer) CT5 (SW ANT Trimmer)	Adjust for maximum output. Repeat steps (6) and (7).

■ FM ALIGNMENT

BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (VTVM or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
(1) FM	Connect to test point  through 0.001μF. Negative side to earth.	10.7 MHz	Point of non-interference.	Connect vert. amp. of scope to test point  . Negative side to test point  .	T1 (FM IFT) (Primary)	Adjust for maximum amplitude. (Refer to fig. 12.)
(2) FM	"	"	"	"	T2 (FM IFT) (Secondary)	Adjust for maximum amplitude. (Refer to fig. 13.)
FM-RF ALIGNMENT						
(3) FM	Connect to test point  through FM dummy antenna. (Refer to fig. 14.)	87.5 MHz	Variable capacitor fully closed.	Output meter across voice coil.	L5 (FM OSC Coil)	(* 3) Adjust for maximum output.
(4) FM	"	90 MHz	90 MHz [26.1mm ($1^{1}/32$ ")]	"	L4 (FM TUNE Coil)	(* 3) Adjust for maximum output.
(5) FM	"	106 MHz	106 MHz [168mm ($6^{5}/8$ ")]	"	CT2 (FM OSC Trimmer) CT1 (FM TUNE Trimmer)	(* 3) Adjust for maximum output. Repeat steps. (3) ~ (5).
(* 3) Three output responses will be present; proper tuning is the center frequency.						

LED METER ALIGNMENT

ITEM	ADJUSTMENT	REMARKS
Battery check	VR301	1. Supply DC 8.5V through the DC IN jack. 2. Adjust VR301 so that the 5th LED from left begins to illuminate.

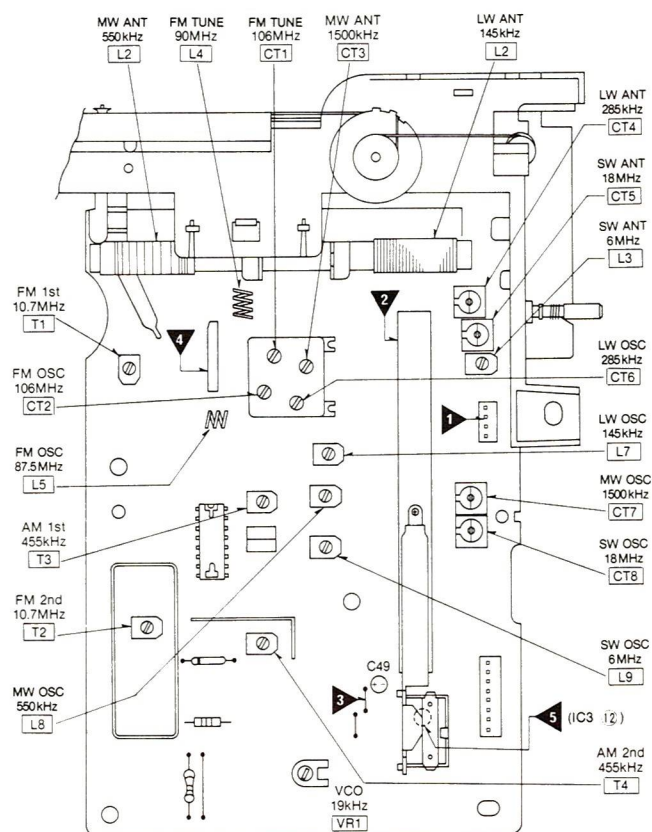
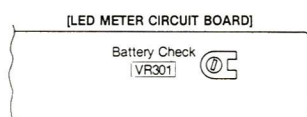
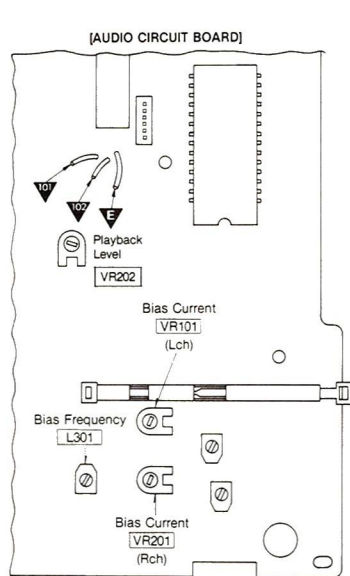
SEPARATION ALIGNMENT

ITEM	SIGNAL 90 MHz, 60dB SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
Adjustment of pilot signal.	—	$\nabla_{101} \dots (+)$ side $\nabla_E \dots (-)$ side	VR1	19kHz	Adjust VR1 for 19kHz (± 200 Hz) reading on electronics counter.

AUDIO ADJUSTMENT

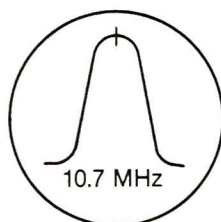
ITEM	INPUT	MEASUREMENT POINT	SPECIFICATION	ADJUSTMENT POINT	REMARKS
Bias current	—	(Lch) ∇_{101} (Rch) ∇_{102} (Earth) ∇_E	4.1 ± 0.2 mV (Use CrO ₂ tape)	VR101 (Lch) VR201 (Rch)	Record mode Beat Proof $\rightarrow$ I
Bias oscillation frequency	—	∇_{101} ∇_E	$52 \text{ kHz} \pm 1 \text{ kHz}$ (Use CrO ₂ tape)	L301	Record mode (Beat Proof $\rightarrow$ I)
Playback level	QZZCFM (315Hz, 0dB)	Speaker	—	VR202 (Rch)	Playback mode

ADJUSTMENT PARTS LOCATION

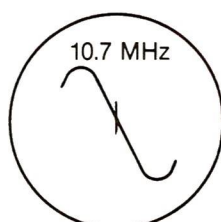


[Fig. 10]

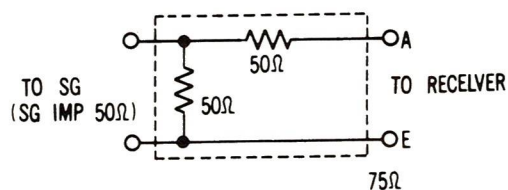
[Fig. 11]



[Fig. 12]



[Fig. 13]



[Fig. 14] FM Dummy Antenna

AUDIO CIRCUIT BOARD

Q302

	REC & PLAY
C	12.0V
B	9.0V
E	8.34V

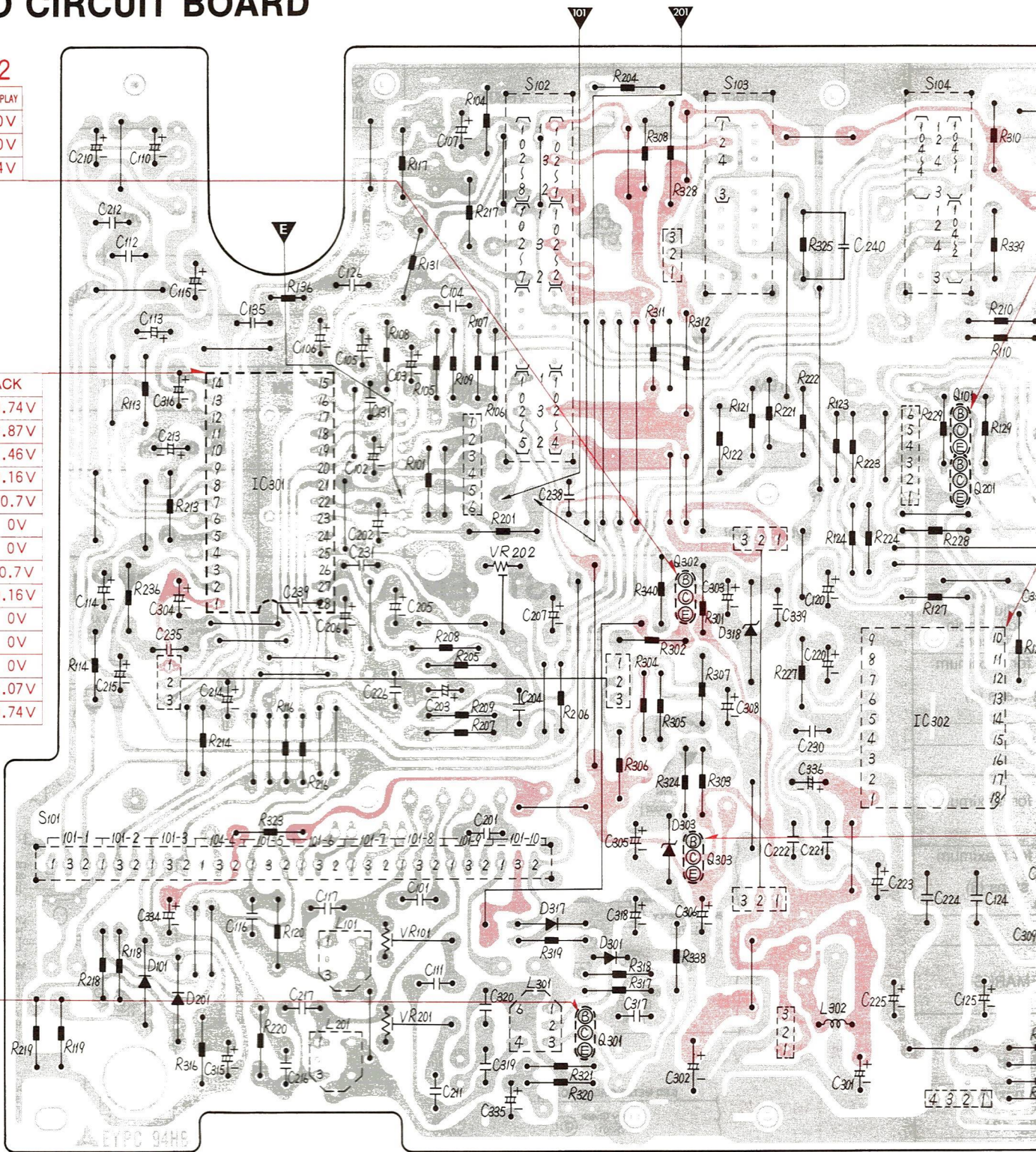
IC301

REC & PLAYBACK

1	8.1V	15	0.74V
2	4.0V	16	3.87V
3	1.0V	17	1.46V
4	3.9V	18	0.16V
5	0.3V	19	0.7V
6	0.87V	20	0V
7	0.87V	21	0V
8	0.3V	22	0.7V
9	3.98V	23	0.16V
10	0V	24	0V
11	0V	25	0V
12	0V	26	0V
13	3.78V	27	4.07V
14	5.11V	28	0.74V

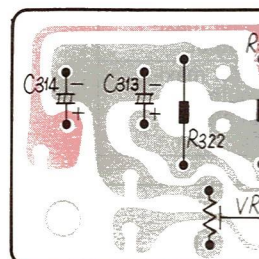
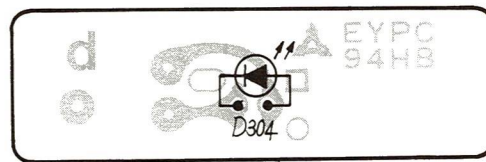
Q301

	REC
C	5.3V
B	0.96V
E	0.43V
Ie	25mA



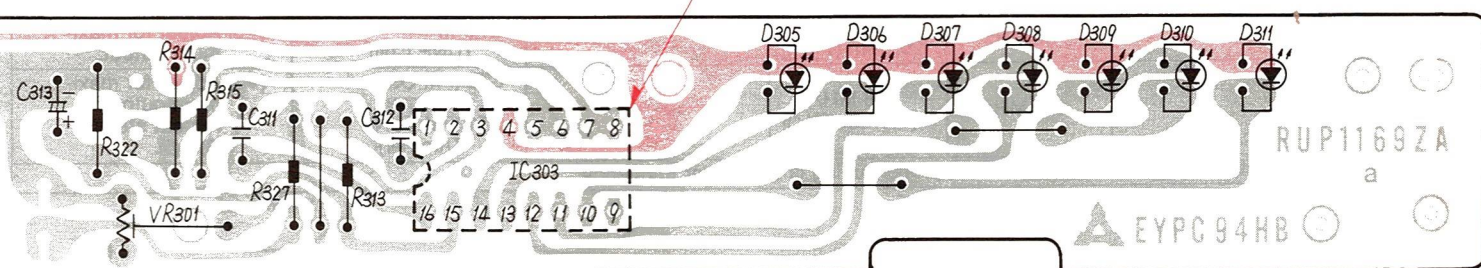
LED MET

LED (ST. EYE) CIRCUIT BOARD

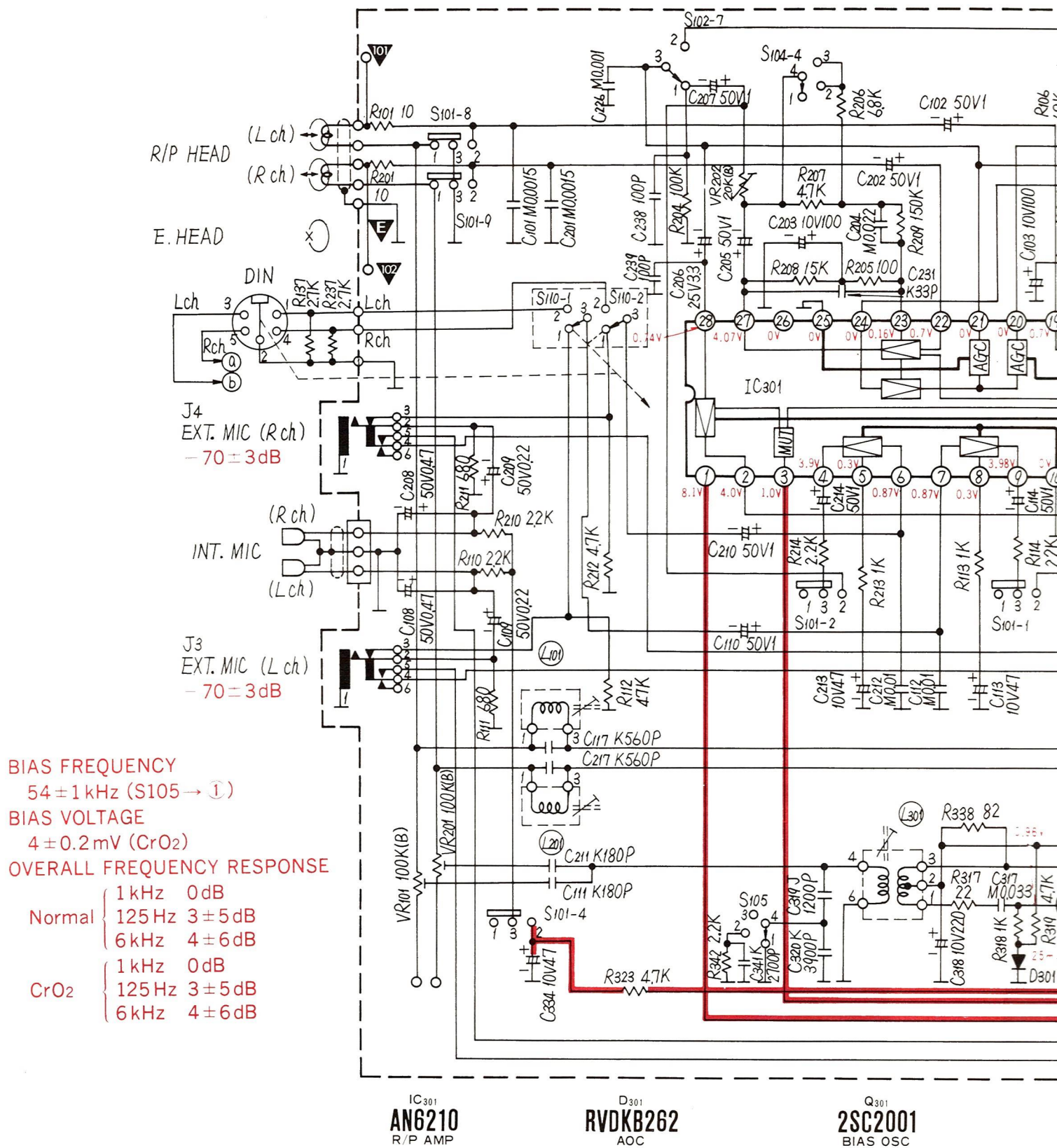




1	0.65V	2	0.12V	3	0.12V	4	8.95V	5	2.83V	6	2.83V
7	0V	8	0V	9	0.23V	10	7.4V	11	5.82V	12	5.82V
13	7.4V	14	7.4V	15	3.14V	16	3.93V				

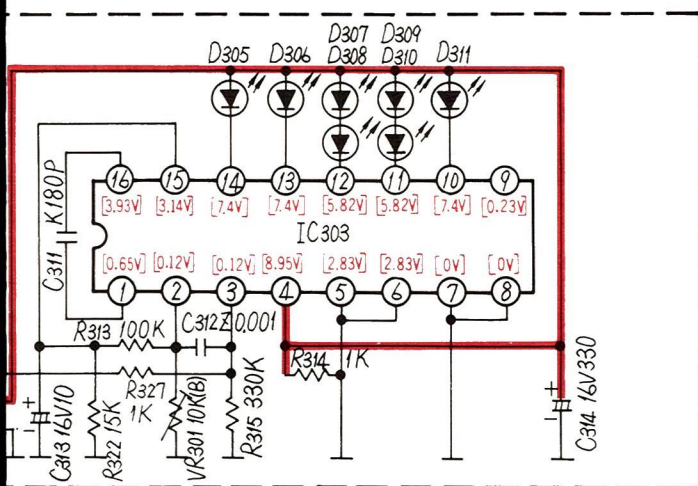


SCHEMATIC DIAGRAM (AUDIO C



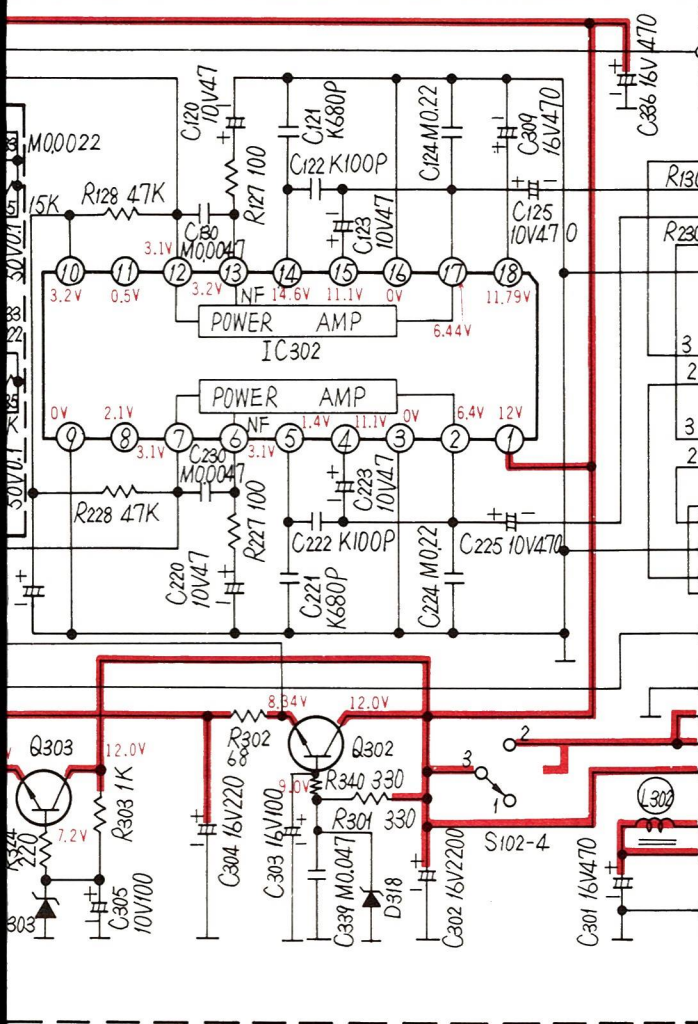
D304
230RA
REO EYE

D305-311
LN230RE
LED METER



IC303
LB1405
METER DRV.

IC302
AN7146
POWER AMP



Q303
2SC1568
REGULATOR

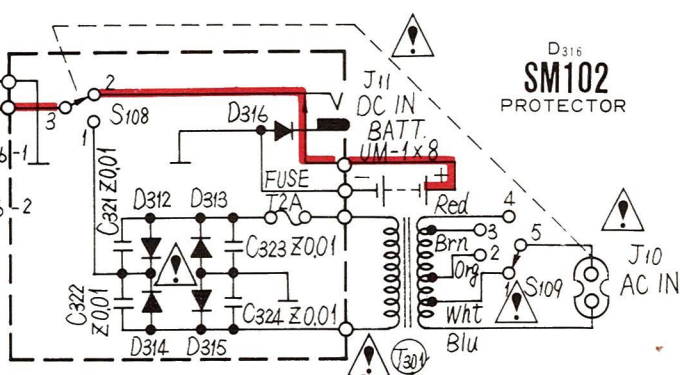
Q302
2SC945
RIPPLE FILTER

Q318
RVDRD9R1EB
REGULATOR

D312-315
RVD10E1
RECT

- 1: 100~110V
 - 2: 115~127V
 - 3: 200~220V
 - 4: 230~250V
- 50/60Hz

D316
SM102
PROTECTOR



WIRING CONNECTION DIAGRAM

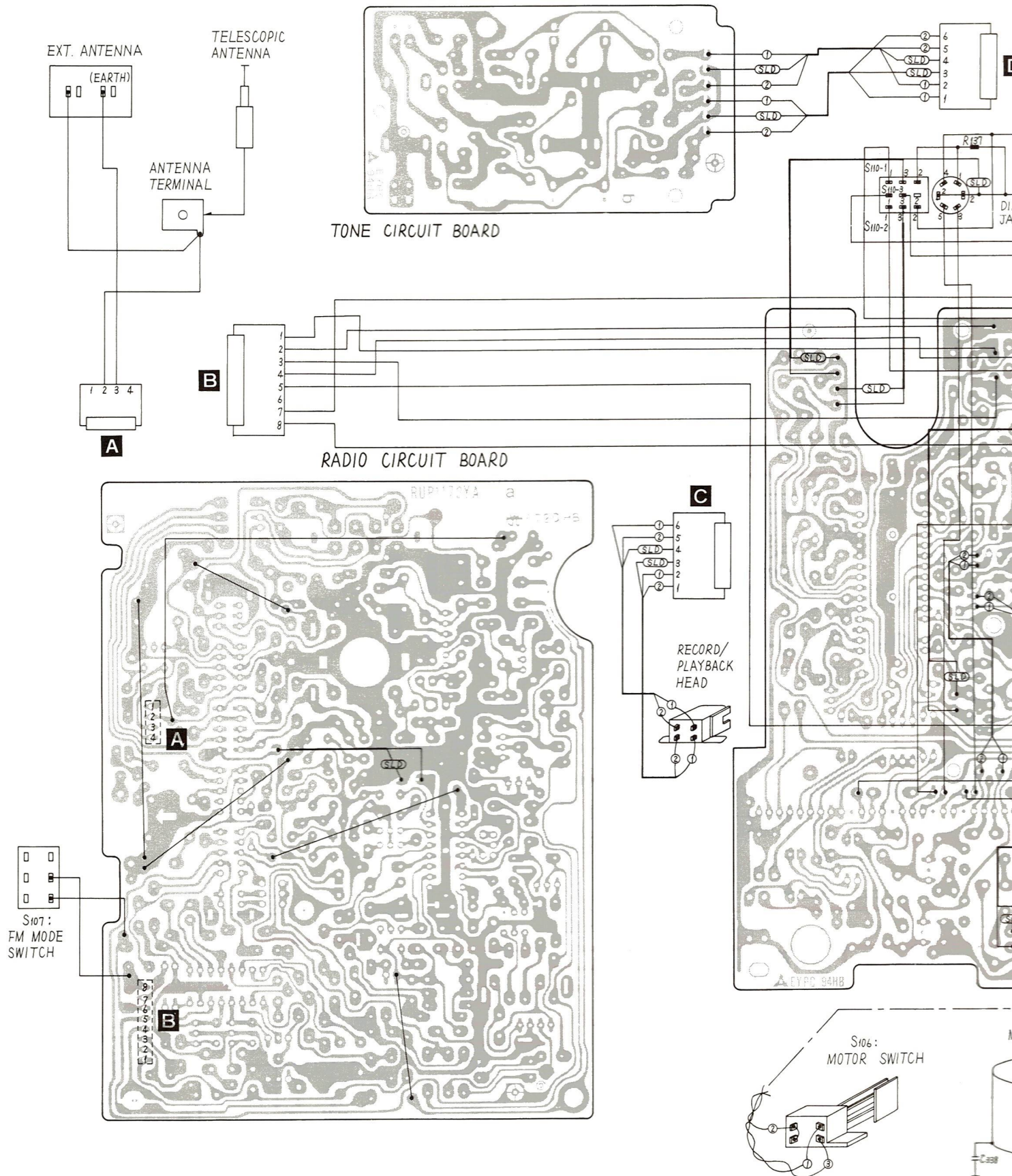
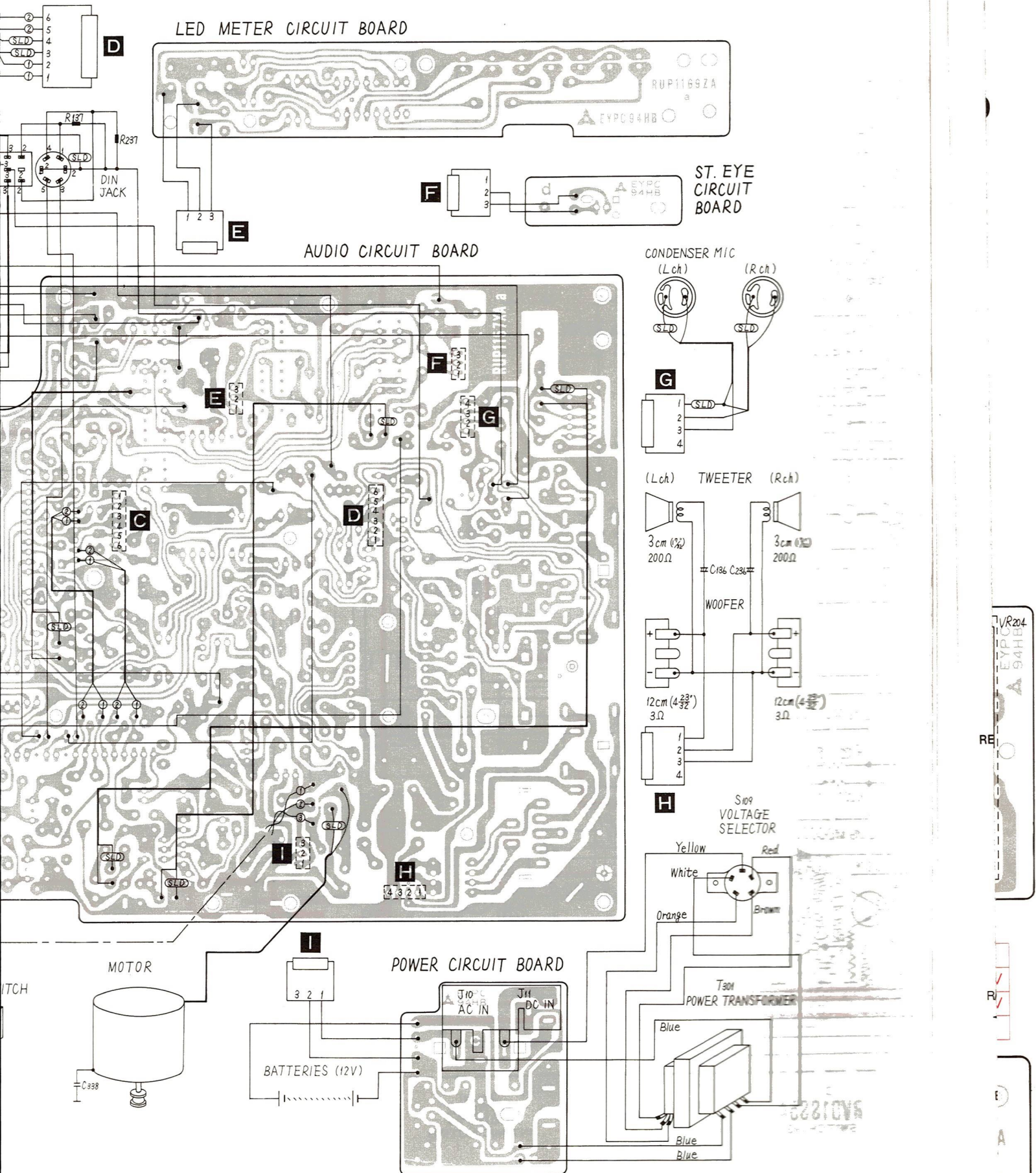
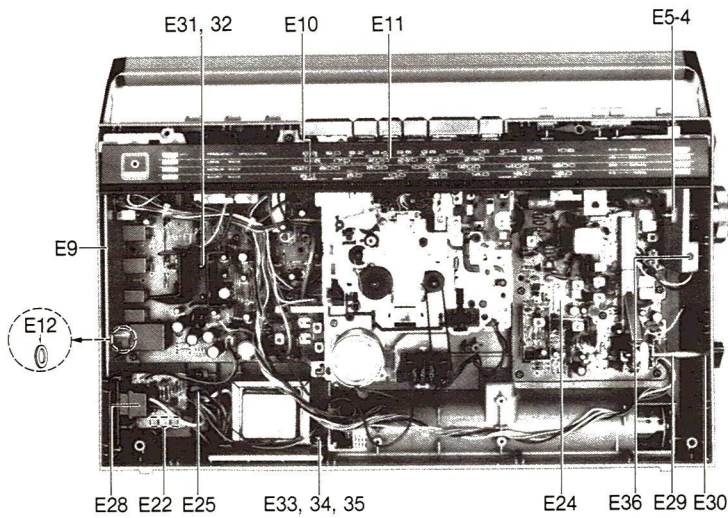


DIAGRAM MODEL RX-5120LS

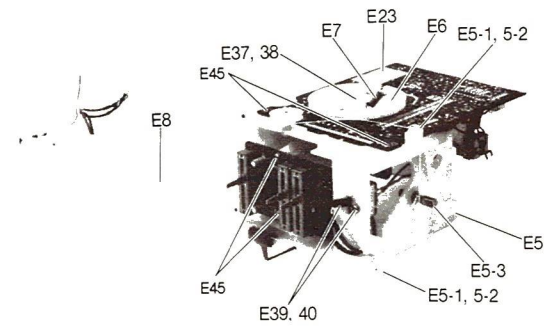




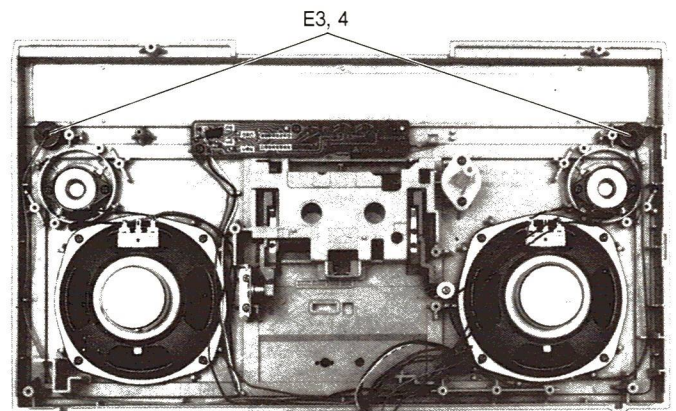
ELECTRICAL PARTS LOCATION



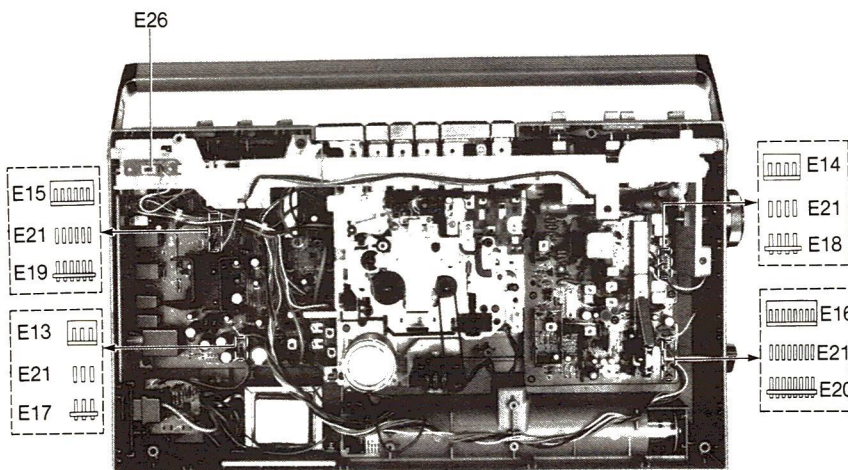
[Fig. 16]



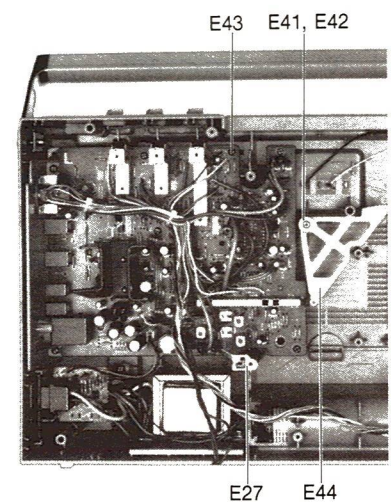
[Fig. 17]



[Fig. 18]

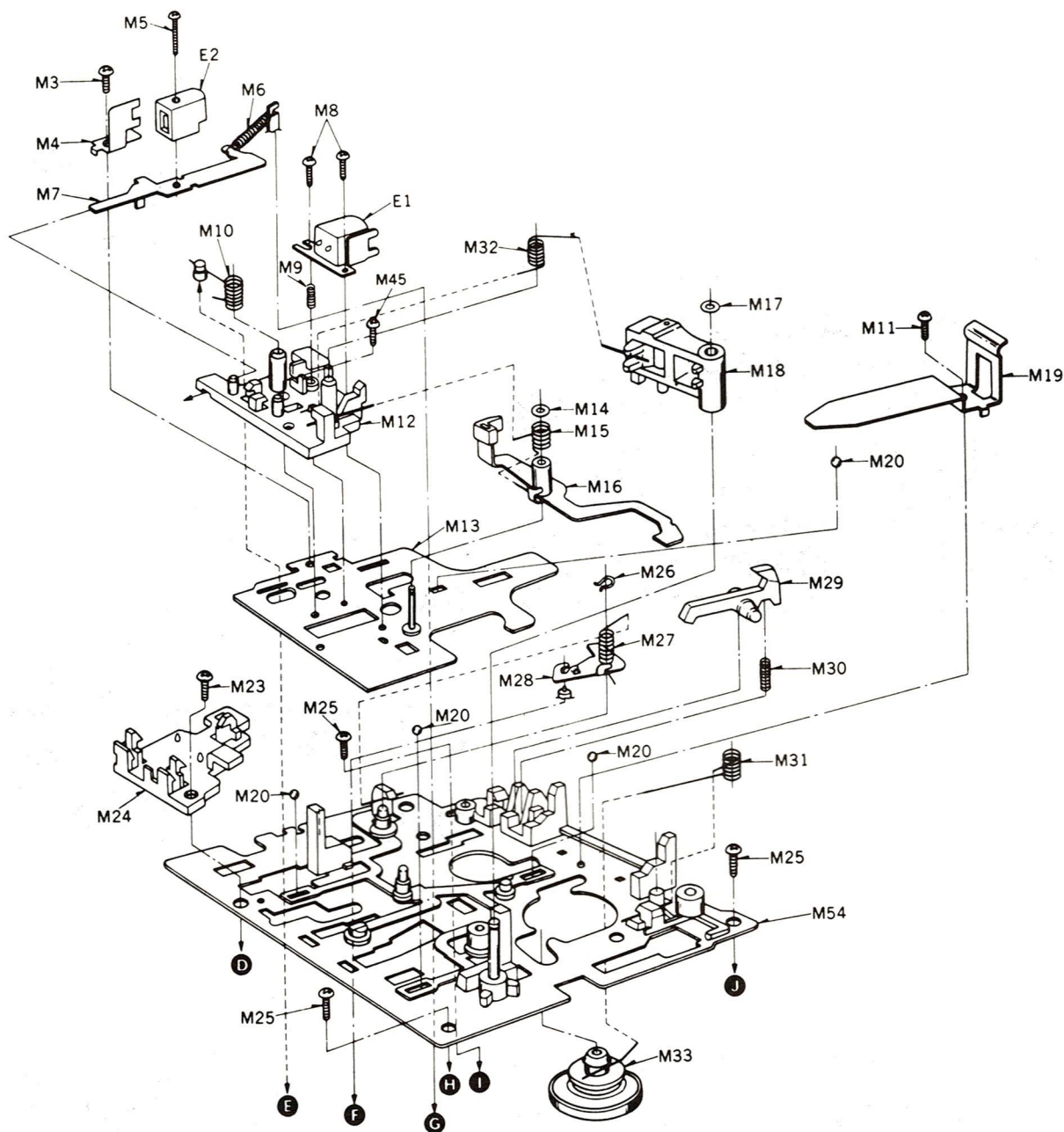


[Fig. 19]



[Fig. 20]

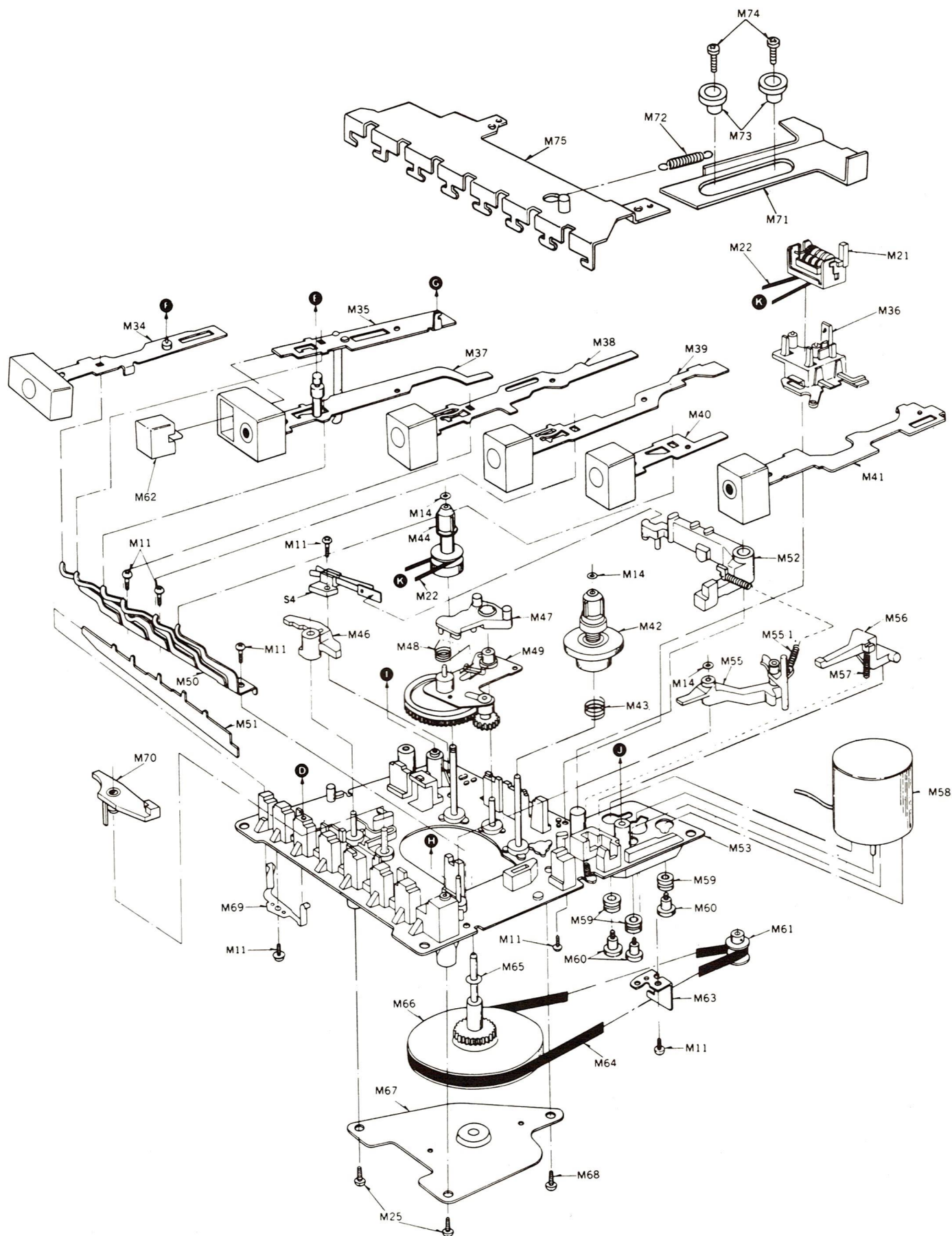
EXPLODED VIEWS



[Fig. 21]

Specification

Pressure of pressure roller	$400 \pm 60\text{gr}$
Takeup tension	$50 \pm 20\text{gr}$
Tension of detect piece	$65 \pm 10\text{gr}$
Wow & flutter	Less than 0.35% (RMS)
Tape speed fluctuation	$\pm 3\%$



[Fig. 22]

REPLACEMENT PARTS LISTModel RX-5120LS (RD7912-5070C)

NOTES: 1. Δ indicates that only parts specified by the manufacturer be used for safety.
2. The S mark is service standard parts and may differ from production parts.

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
M3	XSN26+3	MECHANICAL PARTS	1	
M4	OMG0009	Screw, + 2.6x3	1	
M5	XSN26+12	Tape Guide	1	
M6	QBT1813	Screw, + 2.6x12	1	
M7	QMR1474	Spring, Erase Head Rod	1	
M8	XSN2+8	Rod, Erase Head	2	S
M9	QBC1278	Screw, + 2x8	1	
M10	QBN1481	Spring, Head Adjustment	1	
M11	XTN26+6B	Spring, Playback	1	
M12	QMZ1166	Screw, + 2.6x6	8	S
M13	QXK1681	Spacer, Head	1	
M14	QBW2008	Head Base Plate Ass'y	1	
M15	QBN1478	Washer	4	
M16	QXL0982	Spring, Auto-Stop Detector	1	
M17	QBW2046	Auto-Stop Detector Ass'y	1	
M18	QXL0979	Washer	1	
M19	QBP1659	Pressure Roller Ass'y	1	
M20	QDK1017	Head Base Pressure Plate	1	
M21	QDC0103	Steel Ball	4	
M22	QDB0218	Counter	1	
M23	XTN3+12B	Counter Belt	1	S
M24	QZM1167	Screw, + 3x12	1	
M25	XTN3+10B	Counter Table	1	
M26	XUB4FT	Screw, + 3x10	5	S
M27	QBN1480	Circlip	1	S
M28	QML2898	Spring, Pause Lock	1	
M29	QML2900	Pause Lock Plate	1	
M30	QBC1193	Lever, Erase Safety	1	
M31	QBN1479	Spring, Erase Safety Lever	1	
M32	QBN1488	Spring, Idler	1	
M33	QXI0088	Spring, Pressure Roller	1	
M34	QXR0535	Idle Lever Ass'y	1	
M35	QXR0536	Pause Rod Ass'y	1	
M36	QZM1217	Record Rod Ass'y	1	
M37	QXR0531	Counter Table	1	
M38	QXR0533	Playback Rod Ass'y	1	
M39	QXR0532	Rewind Rod Ass'y	1	
M40	QXR0530	Fast Forward Rod Ass'y	1	
M41	QXR0534	Stop Rod Ass'y	1	
M42	QXD0054	Eject Rod Ass'y	1	
M43	QBC1279	Takeup Reel Table Ass'y	1	
M44	QDR1118	Spring, Back Tension	1	
M45	XSN26+6	Supply Reel Table	1	
M46	QXL2904	Screw, + 2.6x6	1	
M47	QML3440	Pause Lever	1	
		Fast Forward Operation Lever	1	S

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
M48	QBN1477	Spring, Fast Forward Arm	1	
M49	QXGL023	Fast Forward Gear Arm Ass'y	1	
M50	QBP1664	Spring, Operation Rod	1	
M51	QMR1638	Lock Rod	1	
M52	QML2905	Switch Arm	1	
M53	QXK1667	Lower Base Plate Ass'y	1	
M54	QXK1668	Upper Base Plate Ass'y	1	
M55	QXL0980	Auto-Stop Drive Lever Ass'y	1	
M55-1	QBT1489	Spring, Auto-Stop Drive Lever	1	
M56	QML3496	Eject Arm	1	
M57	QBP1773	Spring, Eject Arm	1	
M58	MHT5ST2BX	Motor	1	
M59	QBG1539	Motor Cushion	3	
M60	QHQ1223	Screw, Motor M'tg	3	
M61	QXP0513	Motor Pulley Ass'y	1	
M62	QGO1564	Record Button	1	
M63	QMA2676	Belt Guide	1	
M64	QDB0219	Motor Belt	1	
M65	QBW2049	Washer	1	
M66	QXF0113	Flywheel	1	
M67	QXH0218	Flywheel Retainer	1	
M68	XTN3+16B	Screw, + 3x16	1	S
M69	QBP1778	Spring, Lock Rod	1	
M70	QML2945	Cue Lever	1	
M71	RUB205Z	Lever, Eject Rod	1	
M72	RDS3120A	Spring, Eject Rod	1	
M73	RHM32A	Spacer, Screw	2	
M74	XTN3+6B	Screw, + 3x6	2	S
M75	QXZ0069	Operation Rod Guide	1	
		INTEGRATED CIRCUITS,		
		TRANSISTORS AND DIODES		
IC1	AN7213	IC	1	
IC2	RVIUPC1018CE	IC	1	
IC3	RVIBAL330	IC	1	
IC301	AN6210	IC	1	
IC302	AN7146	IC	1	
IC303	LB1405	IC	1	
Q1.2	2SC829	Transistor (Si)	2	
Q101,201	2SC945	"	2	
Q301,302,303	2SC2001	"	3	
D1	RVDKB167	Diode (Si)	1	
D2,101,201	MA161	"	3	S
D3,4	20A90	Diode (Ge)	2	S
D5~8	OA90	"	4	S
D301	RVDKB262D	Diode (Si)	1	
D303	MA1075TA	"	1	
D304~311	LN230RA	LED, ST Eye, Meter	8	
D312~317	SM112	Diode (Si)	6	S Δ
D318	MAL110TA	"	1	
		COILS AND TRANSFORMERS		
L2	RLF6W151	Antenna Coil, MW	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
L3	QLA3M8	Antenna Coil, SW	1	
L4	RLD4Y44	Tuning Coil, FM	1	
L5	RLO4Y43	Oscillator Coil, FM	1	
L7	RLO1M4	"	1	
L8	RLO2M14	"	1	
L9	RLO3M31	"	1	
L10	RLM1Z4	Trap Coil	1	
L11,12	QLM1M2	Trap Coil, 19kHz	1	
L101,201	QLQM1531	Trap Coil, Bias	2	
L301	QLB0174	Oscillator Coil, Bias	1	
T1	RLI4M101	IFT, FM 1st	1	
T2	RLI4M511	IFT, FM 2nd	1	
T3	QLI2M102	IFT, AM 1st	1	
T4	RLI2M402	IFT, AM 2nd	1	
T301	RLT5L97	Power Transformer	1	
VR1	EVLS3AA00B14	VARIABLE RESISTORS	1	
VR101, 201	EVNM4AA00B15	Preset, 10kΩ (B)	1	
VR103, 203	EVAV28D15A54	" 100kΩ (B)	2	
VR104, 204	EVBV29D15A54	Variable Resistor, 50kΩ (A)	2	
VR301	EVNK4AA00B14	" 50kΩ (A)	1	
VR202	RVNAA24B1	Preset, 10kΩ (B)	1	
VC1,4, CT1,2,3,6		VARIABLE CAPACITORS		
CT4	RCV4KC2V2K	Tuning Capacitor	1	
CT5,7,8	RCV1PX20AGS	Trimmer Capacitor	1	
	RCV1PX10AGS	"	3	
CF1,2	QVFL07MA5W	CERAMIC FILTERS	2	
CF3	QCRZ455A7W	Ceramic Filter, 10.7MHz	1	
Z1	RXABPMB3	COMPONENT COMBINATIONS	1	
Z2	EXA5DL01CF	Component Combination	1	
		SPEAKERS		
	PAS3PH02Z	Speaker, 3cm (1-7/32"),	2	
	EAS12P126SM	" 200Ω, Tweeter	2	
		12cm (4-23/32"),		
		3Ω, Woofer		
S7	RSR4J02Z	SWITCHES		
S101	RSH2J01Z	Switch, Band	1	
S102	RST2H01Z	" Record/Playback	1	
S103	RST3B13Z	" Function	1	
S104	RST3D09Z	" Meter	1	
S105	RSS3A06Z	" Tape Select	1	
S106	QSB0186	" Beat Proof	1	
S107	RST2B18Z	" Motor	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
S108	Refer to J10	Switch, AC/DC	(1)	
S109	RSR4A01W	" Voltage Selector	1	A
J3,4	RJJ1D2Z	JACKS	2	
J7,8	RJJ87Y	Jack, EXT Mic	2	
J9	RJJ1E2Z	" EXT SP	1	
J10,11	QJS0329	" Headphone	1	
J12	RJS178Z	" AC/DC IN	1	A
		" DIN		
R6,13,15	29,31,38,58,59,60	RESISTORS (Value is in OHMS)		
R14	ERD25TJ470	1/4W Carbon	9	S
R5,12,324	ERD25TJ680	"	1	S
R3,35,56	ERD25TJ221	"	5	S
R19,44	ERD25TJ331	"	5	S
R4,11,309	ERD25TJ391	"	2	S
R24,111,211	ERD25TJ471	"	3	S
R22,25,28,37,55,113,213,303,310,314,318,327	ERD25TJ681	"	3	S
R43,42,116,129,216,229	ERD25TJ102	"	12	S
R21,47,107,112,122,207,212,222,307,319,323	ERD25TJ332	"	6	S
R2,9,20,23,32,34,36,117,118,123,126,133,218,223,226,233,306	ERD25TJ472	"	11	S
R39,108,120,134,135,208,220,234,235,322	ERD25TJ103	"	18	S
R7	ERD25TJ153	"	10	S
RL6,45,128,228	ERD25TJ273	"	1	S
RL1,104,121,204,221,313	ERD25TJ473	"	4	S
R8,311	ERD25TJ104	"	6	S
RL0,26,27	ERD25TJ224	"	2	S
R46	ERD25TJ474	"	3	S
R33,105,127,205,227	ERD25TJ820	"	1	S
R57	ERD25TJ101	"	5	S
R338	ERD25TJ152	"	1	S
RL01,136,201,236	ERD25TJ820	"	1	S
R317	ERD25TJ100	"	4	S
R339	ERD25TJ220	"	1	S
	ERD25TJ270	"	1	S

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R110, 114	210, 214, 305, 308, 342	Carbon	7	S
R325	ERD25TJ222	1/4w	1	S
R106, 125	ERD25TJ562	"	1	S
	206, 225, 304	"	5	S
R131	ERD25TJ682	"	1	S
R119, 219	ERD25TJ822	"	1	S
R124, 224	ERD25TJ223	"	2	S
R109, 209	ERD25TJ333	"	2	S
R137, 237	ERD25TJ154	"	2	S
R315	ERD25TJ272	"	2	S
R316	ERD25TJ334	"	1	S
	ERD14GK106	Solid	1	S
		CAPACITORS (Value is in MICRO FARADS except P.P=PICO FARADS)		
C22	ECDD1H070DC	7 P	1	
C1	ECDD1H100KC	10 P	1	
C2, 14	ECDD1H150KC	15 P	2	
C5	ECDD1H200JC	20 P	1	
C7	ECDD1H470KC	47 P	1	
C28, 39, 111, 211, 311	ECDD1H470KC	"	1	
	ECDD1H181K	"	5	
C74	ECDD1H151K	180 P	1	
C16	ECDD1H040CD	150 P	1	
C10	ECDD1H050CC	4 P	1	
C36	ECDD1H270KC	5 P	1	
C35, 131, 231	ECDD1H270KC	27 P	1	
C30	ECDD1H330KC	33 P	3	
C21	ECDD1H560KC	56 P	1	
C122, 222	ECDD1H100KC	10 P	1	
	238, 239	"	4	
C19, 46, 321, 322, 323, 324	ECDD1H101K	100 P	6	
C11, 12, 13, 18, 38, 40, 70, 112, 212	ECDD1H103ZF	0.01	6	
C9, 20, 27, 31, 43, 66	ECDD1H103MD	0.01	9	
C4, 6, 75, 126, 226	ECDD1H223ZF	0.022	6	
C121, 221	ECDD1H102MD	0.001	5	
C101, 201	ECDD1H681KB	680 P	2	
C116, 127, 133, 135, 216, 227, 233, 235	ECDD1H152MD	0.0015	8	
C130, 230	ECDD1H222MD	0.0022	2	
C312	ECDD1H472MD	0.0047	1	
C24	ECQS1361JW	360 P	1	
C55	ECQS1681JW	680 P	1	
C25	ECQS1H392KZ	3900 P	1	
C320	ECQS2B392KZ	3900 P	1	
C117, 217	ECQS1561JW	560 P	2	
C319	ECQS2B122JW	1200 P	1	
C341	ECQS2B272KZ	2700 P	1	
C124, 224	ECQG052224MZ	0.22	2	
C23	ECMS05151JH	150 P	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C23	ECMS05221JH	220 P	1	
C34, 50, 56, 57, 61, 104, 119, 204, 219	ECFVD223MD	50V	9	
C42, 53, 62, 339	ECFVD223MD	25V	4	
C33	ECFVD473MD	"	1	
C45	ECFVD103MD	"	1	
C317	ECFVD104MD	"	1	
C32, 113, 120, 123, 213, 220, 223, 308, 316, 334, 337	ECFVD333MD	"	1	
C29, 47, 54, 304, 318	ECEALAS470	10V	11	S
C37, 314	ECEALAS221	"	5	S
C41	ECEALCS330	16V	2	S
C48, 59, 44, 49, 58, 102, 105, 107, 110, 114, 118, 202, 205, 207, 210, 214, 218	ECEA2524R7	25V	1	S
C17, 52, 108, 115, 208, 215	ECEA50Z1	50V	17	S
C51, 109, 209	ECEA50Z47	"	6	S
C134, 234	ECEA50Z2R22	"	3	S
C106, 206	ECEA50Z2R1	"	2	S
C103, 203, 305, 306	ECEA50Z3R3	"	2	S
C304, 318	ECEALAS101	10V	4	S
C125, 225	ECEALAS221	"	2	S
C315	ECEALAS471	"	2	S
C303, 313	ECEALHS100	50V	1	S
C301, 309, 336	ECEALHS101	25V	2	S
C302	ECEALCS471	16V	3	S
C136, 236	ECEALCS222	"	1	S
C335	ECEALEN4R7	25V	2	
C15	ECSF10E10	10	1	
C63	ECCDLH180KC	18 P	1	
C132, 232, 240	ECCDLH120KC	12 P	1	
	ECCDLH332MD	0.0033	3	
CABINET PARTS				
K1	RYMX5120LSX8	Front Cabinet Assembly	1	
K1-1	RGF594Z	Panel, Cassette Lid	1	
K1-2	RHE5031Z	Screw, Panel M'tg	2	
K1-3	RYQX5120LSX1	Cassette Lid Assembly	1	
K1-4	RUS401Z	Spring, Cassette Lid	1	
K1-5	RZEX5300N	Shaft Assembly	1	
K1-6	RDG5690Z	Slow Up Gear	1	
K1-7	XWG3F13	Washer	1	
K1-8	XTV3+10G	Screw	3	S
K2	RYFX5120LSX7	Rear Cabinet Assembly	1	
K2-1	RJC505Z	Spring, Battery - Side	1	
K2-2	QJB0116	Terminal, Battery + Side	1	
K2-3	RJC931Z	Terminal, Battery +, - Side	1	
K2-4	RJT398A	Connecting Pipe	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
K2-5	RJF1065Z	Terminal, EXT Ant	2	
K2-6	RXL178Z	Arm, Handle	2	
K2-7	RXL179Z	Stopper, Arm	1	
K2-8	QBP1817	Spacer, Arm	2	
K2-9	RKX184Z	Battery Cover Assembly	2	
K2-10	RYNX5120LSX7	Telescopic Antenna	1	
K3	XEARR345CAN	Knob, Tape, Mode etc.	4	
K5	RBD94Y	Knob, Volume, Tone	3	
K6	RBD113Z	Knob, Tuning	1	
K7	RBN516Z	Knob, Band	1	
K8	RBS153Z	Lever	1	
K9	RUB200Z	Spring, Lever	1	
K10	RUS124B	Terminal, Telescopic Antenna	1	
K11	RJT651Z	Stay Shaft	1	
K12	RKE316Z	Screw, Stay Shaft etc. M'tg	1	
K13	XTV3+10G	Screw, Terminal M'tg	1	
K14	XTV3+8G	Screw, Telescopic Antenna M'tg	1	
K15	XYN3+FL15FZS	Screw, Cabinet M'tg	6	
K16	XTN35D50G			
E1	QWY4113Z	ELECTRICAL PARTS	1	
E2	QWY21129	Head, Record/Playback	1	
E3	RJML42Z	Built-in Microphone	2	
E4	RHG416Z	Cover, Built-in Microphone	2	
E5	RZAX5120FX	Dial Chassis Ass'y	1	
E5-1	RDR20-3	Roller, Dial	2	
E5-2	RDY43Z	Shaft, Dial Roller	2	
E5-3	RDT5151Z	Shaft, Tuning	1	
E5-4	XUC5FT	Circlip	1	
E6	RDD567Z	Drum, Dial	1	
E7	RDS4170A	Spring, Dial	1	
E8	RDZ05Z	Cord, Dial (200cm)	1	
E9	RKE317X	Jack Board	1	
E10	RDP796Z	Pointer	1	
E11	RKD539X	Scale, Dial	1	
E12	RHM108Z	Nut, Headphone	3	
E13	RJS253Y	Socket, 3P	3	
E14	RJS216Y	Socket, 4P	2	
E15	RJS112Y	Socket, 6P	1	
E16	RJS264Y	Socket, 8P	3	
E17	RJPL37Z	Plug, 3P	3	
E18	RJP107Z	Plug, 4P	2	
E19	RJP142Z	Plug, 6P	1	
E20	RJP171Z	Plug, 8P	1	
E21	RJT462Z	Contact	28	
E22	XBA2C20TRO	Fuse, T2A	1	
E23	RMC228A	Shield Plate	1	
E24	RMCL17Y	Shield Plate, IC	1	
E25	RUV387Z	Cover, Voltage Selector	1	
E26	RMP128Z	Holding Plate, LED	1	
E27	QJC0018	Terminal, Mechanism Earth	1	
E28	QTW1135	Cover, AC IN Jack	1	
E29	RDF831Z	Shaft, Band Selector	1	
E30	XUC5FT	Circlip	1	S
E31	XSN3+12S	Screw, Heat Sink M'tg	2	S
E32	XWG3	Washer	2	S
E33	XWT4	Washer	2	S
E34	XSN4+6S	Screw, Transformer M'tg	2	S
E35	XWA4B	Washer	2	S
E36	XTW3+12QR	Red Screw, PC Board M'tg	1	S
E37	XSN26+8S	Screw, Drum M'tg	1	S
E38	XWA26B	Washer	2	S
E39	XSN3+8S	Screw, Mode Switch M'tg	2	S
E40	XWA3B	Washer	1	S
E41	XWG3F13	Washer	1	S
E42	XTB3+35C	Screw, Recording Lever M'tg	1	
E43	XTV3+12GR	Red Screw, PC Board M'tg	19	
E44	RUB201Z	Recording Lever	1	
E45	XTV3+10G	Screw	1	
		ACCESSORIES		
	RJN23Z	Cassette Tape	1	
	RJA20Z	Power Cord, AC	1	A S
		PACKING MATERIALS		
	XZB60X60A04	Polyethylene Cover	1	S
	RPK869Z	Gift Box	1	
	RPN9319Z	Pad Complete	1	
		PRINTED MATERIAL		
	RQX6504Z	Instruction Book	1	