

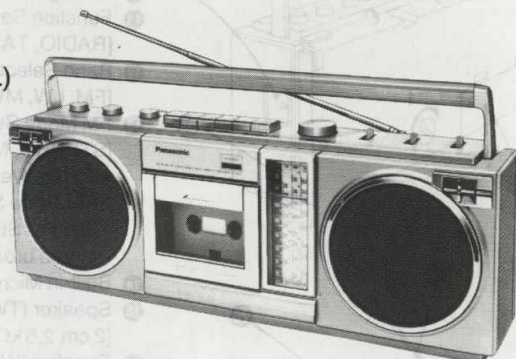
Service Manual

FM-LW-MW-SW
Stereo Radio Cassette
Recorder

RX-4933L/RX-4922L

(Black)
(Silver)

(Model RX-4933L)



(Model RX-4922L)



This is the Service Manual for the following areas.

Z...For all European areas except United Kingdom and Germany.

E...For United Kingdom.

F...For France.

I...For Italy.

Color Variation

Area	Color
Z E F I	Black
Z	Silver

The only differences between the RX-4933L and the RX-4922L are in the front cabinet, tweeter and built-in microphone (stereo/monaural). For details, refer to the parts list.

SPECIFICATIONS

General:

Power Requirement: AC; **Z, F, I**... 220 V, 50 Hz
E... 240 V, 50 Hz (only for U.K.)
Battery: 9 V (Six "D" Size Flashlight Batteries)

Power Consumption: 14 W (AC only)... RX-4922L only
13 W (AC only)... RX-4933L only
7 W (3.5 W×2)... RMS (max.)
6.5 W (3.25 W×2)... MPO (music)

Power Output:

Speaker: 12 cm PM Dynamic Speaker (3Ω)
2 cm Ceramic Speaker (2.5 kΩ)... RX-4933L only

Output: HEADPHONES; 32Ω

Dimensions: 475 mm (W)×183 mm (H)×132 mm (D)

Weight: 2.7 kg without batteries

Radio Section:

Radio Frequency Range: FM; 87.5~108 MHz
LW; 150~285 kHz (2000~1060 m)
MW; 520~1610 MHz (577~186 m)
SW; 5.9~18 MHz (50.8~16.7 m)

Intermediate Frequency: FM; 10.7 MHz
Z, F, I... AM (LW/MW/SW); 455 kHz
E... AM (LW/MW/SW); 470 kHz

Sensitivity: FM; 3.5 μV (−3 dB Limit sense)
LW; 141 μV/m/50 mW output
MW; 112 μV/m/50 mW output
SW; 8.9 μV/50 mW output

Tape Deck Section:

Frequency Response: 80~8,000 Hz (with normal tape)

Recording system: DC bias, MAGNET erase

Tape Speed: 4.8 cm/s, (1 7/8 ips)

Track System: 4-track 2 channel stereo recording and playback

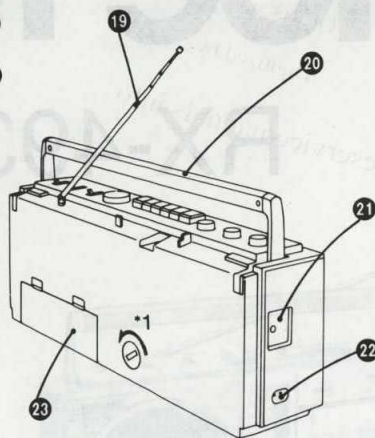
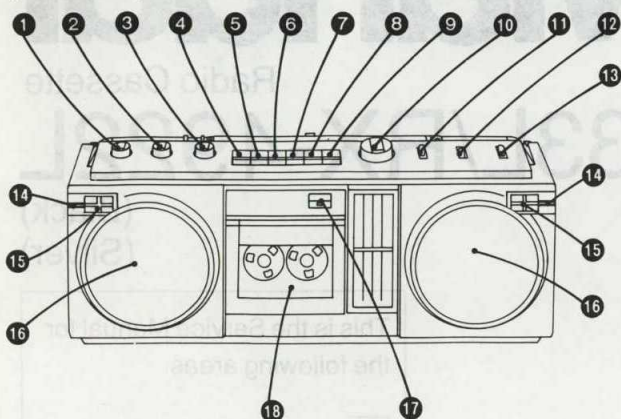
Design and specifications are subject to change without notice.

Panasonic

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

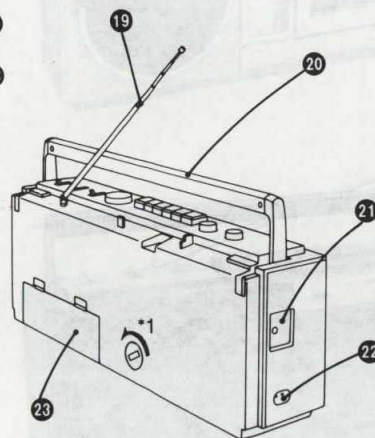
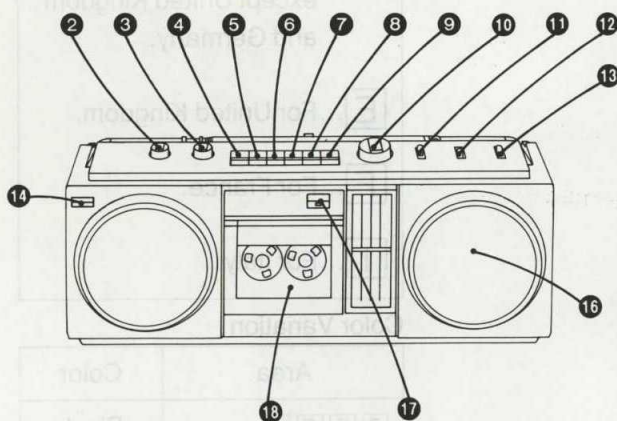
LOCATION OF CONTROLS AND COMPONENTS

(RX-4933L)



- 1 Tone Control (TONE)... RX-4933L
- 2 Balance Control (BALANCE)
- 3 Volume Control (VOLUME)
- 4 Pause Button (PAUSE)
- 5 Fast Forward Button (FF)
- 6 Rewind Button (REWIND)
- 7 Playback Button (PLAY)
- 8 Record Button (RECORD)
- 9 Stop/Eject Button (STOP/EJECT)
- 10 Tuning Control (TUNING)
- 11 Function Selector (SELECTOR)
[RADIO, TAPE/POWER OFF]
- 12 Band Selector (BAND)
[FM, LW, MW, SW]
- 13 FM Mode Selector (FM MODE)
[STEREO, MONORAL]
•To receive FM stereo broadcasts, set the FM Mode Selector to "STEREO".
The FM Stereo Indicator will light during stereo broadcasts.
- 14 Built-in Microphones (MIC)
- 15 Speaker (TWEETER)
[2 cm 2.5 kΩ]... RX-4933L
- 16 Speaker (WOOFER) [12 cm 3Ω]
- 17 FM Stereo Indicator (FM STEREO)
- 18 Cassette Compartment
- 19 Telescopic Antenna
- 20 Handle
- 21 Headphone Jack (PHONES)
[Ø3.5, 32Ω]
- 22 AC Socket (AC IN ~)
- *1 When the tape is caught in the pinch roller, etc. Release the tape by turning the pulley on the motor with the screwdriver in the direction of the arrow.
- 23 Battery Compartment

(RX-4922L)



DISASSEMBLY INSTRUCTIONS

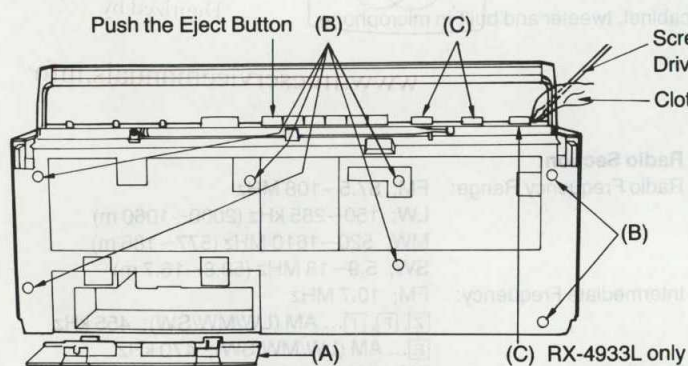


Fig. 1

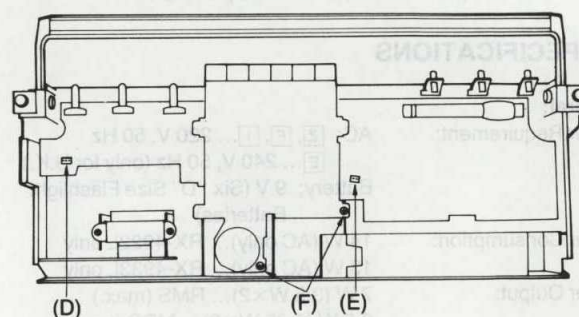


Fig. 2

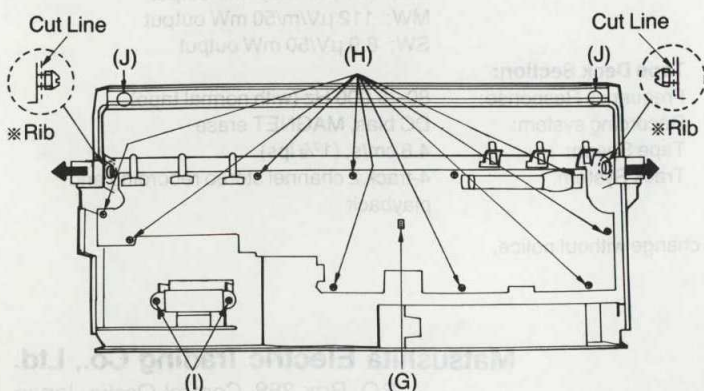


Fig. 3

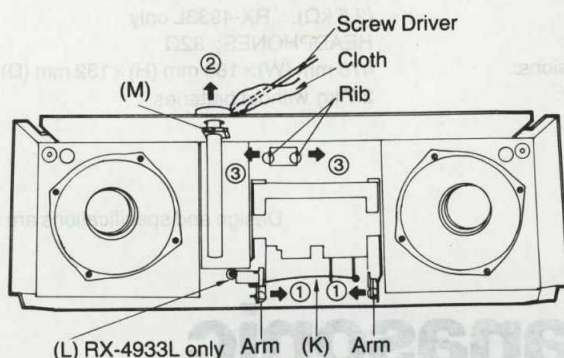
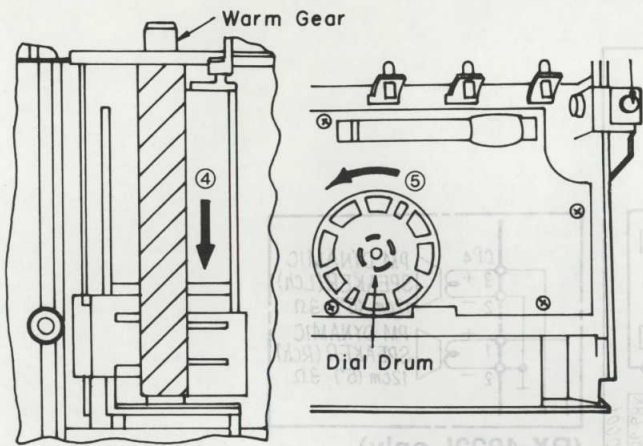


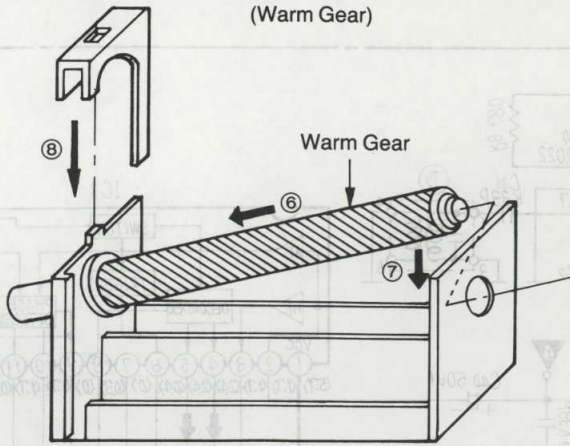
Fig. 4

■ HOW TO REPLACE



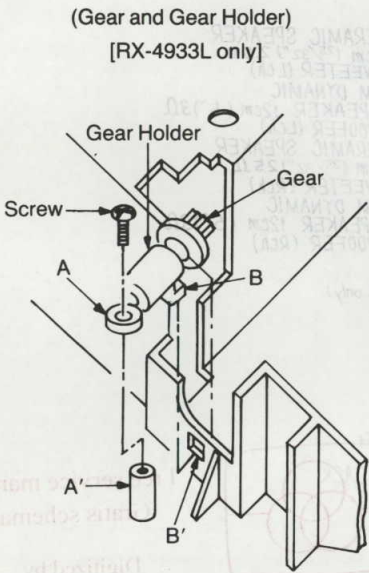
- To lower the pointer to the lowest position, turn the worm gear in the direction of arrow ④.
- Turn the dial drum in the direction of arrow ⑤.

Fig. 5



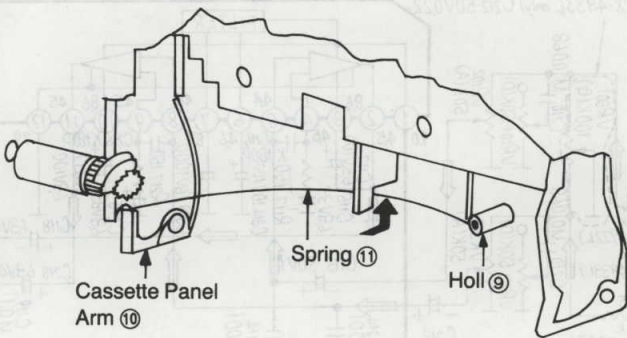
- Insert the Warm Gear in the direction of arrow ⑥ and push Warm Gear in the direction of arrow ⑦.
- Insert the Warm Gear Bracket in the direction of arrow ⑧.

Fig. 6



- During installation simultaneously fit in A and A', B and B'.
- Fix the Gear Holder by the screw.

Fig. 7



- Insert the spring into the holl ⑨ and hook to the Cassette Panel Arm ⑩.
- Push the Spring in the direction of arrow ⑪ and hook to the rib.

Fig. 8

Ref. No.	Shown in Fig.—.	To remove—.	Remove—.
1	1	Front Cabinet Ass'y (※1, 2)	Battery Cover (A)×1
2	1		Screw (3×35) mm (B)×7
3	1		Knob [RX-4933L only] (C)×3
3	1		Knob [RX-4922L only] (C)×2
4	1		Push the Eject Button
5	2	Mechanism	Socket (3 pin) (D)×1
6	2		Socket (2 pin) (E)×1
7	2		Screw (3×12) mm (F)×2
8	3		Socket (3 pin) (G)×1

Ref. No.	Shown in Fig.—.	To remove—.	Remove—.
9	3	Main Circuit Board	Screw (3×12) mm (H)×12
10	3	Power Circuit Board	Screw (3×12) mm (I)×12
11	3	Handle	Screw (3×8) mm (J)×2
12	4	Cassette Panel	Spring (K)×1
13	4		Screw (3×12) mm [RX-4933L only] (L)×1
14	4		To remove Cassette Panel, push the arm in the direction of arrow ①.
15	4	Warm Gear	Bracket (M)×1
16	4		Remove the Knob in the direction of arrow ②.
17	4	LED Circuit Board	Remove the LED Circuit Board in the direction of arrow ③.

- ※1. Turn the dial drum to fully counter-clockwise.
- ※2. Turn the tuning shaft to fully counter-clockwise.
- ※3. To remove the handle, first remove two screw (J) and open the handle arm as shown in direction of the arrow in Fig. 3.
- ※4. To remove the handle arm, cut the rib of handle arm.

MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTIONS

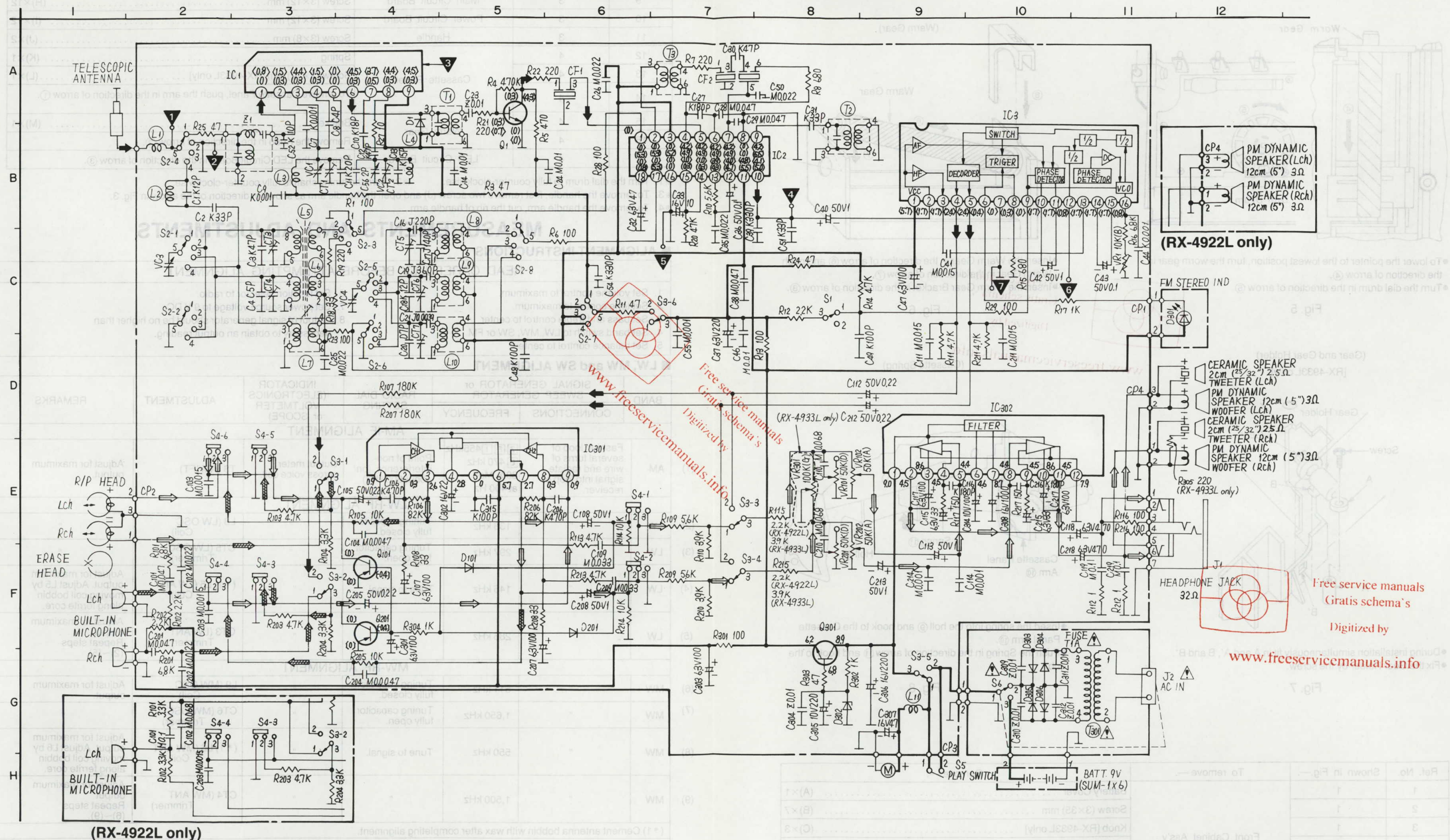
READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Set volume control to maximum.
2. Set tone control to maximum.
3. Set bass and treble control to center.
4. Set band switch to LW, MW, SW or FM.
5. Set balance control to center.
6. Set function selector to radio.
7. Set power source voltage to 9 V DC.
8. 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 VOLT-METER or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
AM-IF ALIGNMENT						
AM	Fashion loop of several turns of wire and radiate signal into loop of receiver.	Z F I 455kHz E 470 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.
LW-RF ALIGNMENT						
LW	"	136 kHz	Tuning capacitor fully closed.	"	L8 (LW OSC Coil)	"
LW	"	297 kHz	Tuning capacitor fully open.	"	CT5 (LW OSC Trimmer)	"
LW	"	145 kHz	Tune to signal.	"	(* 1) L5 (LW ANT Coil)	Adjust for maximum output. Adjust L5 by moving coil bobbin along ferrite core.
LW	"	285 kHz	"	"	CT3 (LW ANT Trimmer)	Adjust for maximum output. Repeat steps (2)~(5).
MW-RF ALIGNMENT						
MW	"	511 kHz	Tuning capacitor fully closed.	"	L9 (MW OSC Coil)	Adjust for maximum output.
MW	"	1,650 kHz	Tuning capacitor fully open.	"	CT6 (MW OSC Trimmer)	"
MW	"	550 kHz	Tune to signal.	"	(* 1) L6 (MW ANT Coil)	Adjust for maximum output. Adjust L6 by moving coil bobbin along ferrite core.
MW	"	1,500 kHz	"	"	CT4 (MW ANT Trimmer)	Adjust for maximum output. Repeat steps (6)~(9).
(* 1) Cement antenna bobbin with wax after completing alignment.						
SW-RF ALIGNMENT						
SW	Connect to test point ▼ through ceramic capacitor (10 pF) Negative side to test point ▼.	5.75 MHz	Tuning capacitor fully closed.	"	L10 (SW OSC Coil)	Adjust for maximum output.
SW		18.8 MHz	Tuning capacitor fully open.	"	CT7 (SW OSC Trimmer)	"
SW		5.9 MHz	Tune to signal.	"	L7 (SW ANT Coil)	Adjust for maximum output. Repeat steps (10)~(12).

SCHEMATIC DIAGRAM MODEL RX-4933L/RX-4922L



- DC voltage measurement are taken with electronics voltmeter from negative terminal of battery.
- < >...FM position, ()...AM position,
[]...Recording position, No mark...Playback position.
- Battery current: No signal 67 mA
Maximum output (radio) 1000 mA
Maximum output (tape) 1018 mA

-  + Ⓑ Voltage Line
-  Tape (PLAYBACK) Signal Line
-  Tape (RECORD) Signal Line
-  Radio (FM) Signal Line

Notes:

1. S1: FM Mode switch in "MONO" position.
2. S2-1~S2-8: Band switch in "FM" position.
(1...SW, 2...MW, 3...LW, 4...FM)
3. S3-1~S3-6: Function switch in "TAPE/OFF" position.
(1...TAPE/OFF, 2...RADIO)
4. S4-1~S4-6: Record/playback switch in "playback" position.
(1...Playback, 3...Record)
5. S5: Motor ON/OFF switch in "OFF" position.
6. S6: AC/DC IN select switch in "DC IN" position.
7. VR1: VCO oscillator frequency adjust VR.
8. VR101, 201: Tone control.
9. VR102, 202: Volume control.
10. VR301: Balance control.
11. The mark (▼) shows test point e.g. ▼=test point 1.
12. 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.

Ref No.	Part No.	Function Name	Zone
IC1	RVITA7358P	FM FRONT END	A.3
IC2	AN7220A	FM/AM IF AMP. DET.	B.7
		AM OSC. MIX	
IC3	RVIBA1332L	FM MPX	B.10
IC301	AN7310	EQ/PRE AMP	E.5
IC302	RVIBA5406	POWER AMP	D.10
Q1	2SC1675K1	FM IF AMP	A.5
Q101	2SA733-P1	REC AGC	F.4
Q201	2SA733-P1	REC AGC	F.4
Q301	2SC2001K1	REGULATOR	G.8
D1	RVD1N4148	AGC	A.4
D101	RVD1N4148	AGC RECT	F.5
D201	RVD1N4148	AGC RECT	F.6
D301	RVDTLR205	FM STEREO IND	C.12
	(RX-4922L only)		
D301	LN012176P	FM STEREO IND	C.12
	(RX-4933L only)		
D302	RVD2T6R8C	REGULATOR	G.8
D303	RVD1SR35	RECT	G.10
D304	RVD1SR35	RECT	G.10
D305	RVD1SR35	RECT	G.10
D306	RVD1SR35	RECT	G.10

REPLACEMENT PARTS LIST**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.

Note:

■...For all European areas except United Kingdom

■...For United Kingdom

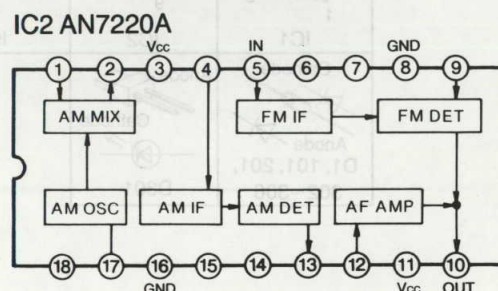
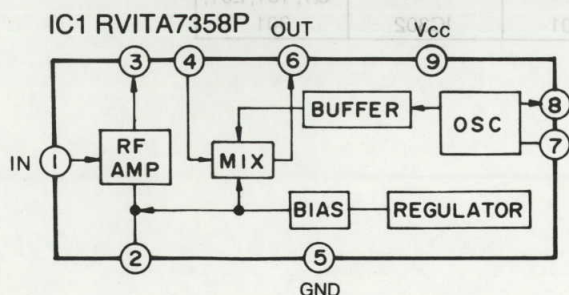
■...For France

■...For Italy

Part numbers may differ according to shipping destination. Be sure to refer to the below destination codes before ordering replacement parts.

●mark stands for that the parts are supplied in MESA.

Ref. No.	Part. No.	Part Name & Description	Ref. No.	Part. No.	Part Name & Description	Ref. No.	Part. No.	Part Name & Description
INTEGRATED CIRCUITS			TRANSFORMERS			CERAMIC FILTERS		
IC1	RVITA7358P	IC	T1,2	RLI4B153	IFT, FM 1st, 2nd	CF1	RVFSFE107MAZ	Ceramic Filter
IC2	AN7220A	IC	T3	RLI2B153	IFT, AM	CF2	RVFSFZ455B	Ceramic Filter
IC3	RVIBA1332L	IC	●T301	RLT5K3G3A	Power Transformer !	CF2	QCRZZ470A7W	Ceramic Filter
IC301	AN7310	IC	●T301	RLT5K3E2A	Power Transformer ⚠	COMPONENT COMBINATION		
●IC302	RVIBA5406	IC				Z1	RXABPWBSW	Component Combination
TRANSISTORS			VARIABLE CAPACITORS			SWITCHES		
Q1	2SC1675K1	Transistor (Si)	VC1,2,3,4	RCV4RC2RA	Variable Capacitor/with Trimer Capacitor (CT1, 2, 4, 6)	●S1	RST2A09Z	Switch, FM Mode
Q101,201	2SA733-P1	Transistor (Ge)				●S2	RST4H10Z	Switch, Band
Q301	2SC2001K1	Transistor (Si)				S3	RST2F11Z	Switch, Function
DIODES & RECTIFIERS			TRIMMER CONDENSERS			S4	RSH2F08Z	Switch, Record/Playback
●D1,101,201	RVD1N4148	Diode (Si)	CT3	RCVPL30A	Trimmer Capacitor	S5	RFA43Z	Switch, Play
D301	RVDTLR205	Diode (Si) (RX-4922L only)	CT5	RCVPL20A	Trimmer Capacitor	JACKS		
D301	LN012176P	Diode (Si) (RX-4933L only)	CT7	RCVPL10A	Trimmer Capacitor	J1	RJJ1D27Z	Jack, Headphone
D302	RVD2T6R8C	Diode (Si)	VARIABLE RESISTORS			J2 (S6)	RJJ1A4Z	Jack, AC IN ⚠
D303,304,305,306	RVD1SR35	Diode (Si)	VR1	EVNK4AA00B14	Variable Resistor, 10 kΩ (B)			
			●VR101,201	EWCVHAF20D54	Variable Resistor, 50 kΩ (D)			
			●VR102,202	EWCUHAF20A54	Variable Resistor, 50 kΩ (A)			
			VR301	EWH7MAF20G15	Variable Resistor, 100 kΩ (G) (RX-4933L only)			
COILS								
L1	RLQY30S1	Choke						
L2	RLQY30S4	Choke						
L3	RLD4Y44	Antenna Coil, FM						
L4	RLD4Y43	Oscillator Coil, FM						
●L5,6	RLF6W7	Antenna Coil, LW/MW						
L7	RLA3B41	Antenna Coil, SW						
L8	RL01B12	Oscillator Coil, LW						
L9	RL02B108	Oscillator Coil, MW						
L10	RL03B87	Oscillator Coil, SW						
●L11	RLQZG470K	Choke						

IC BLOCK DIAGRAM

ELECTRICAL PARTS LIST

Numbering System of Resistor

Example	ERD	25	F	J
Type	Wattage	Shape	Tolerance	
ERX	2	AN	J	
Type	Wattage	Shape	Tolerance	

Resistor Type	Wattage	Tolerance
ERD: Carbon	10 : 1/8 W	J : ±5%
ERG: Metal Film	12 : 1/2 W	
ERX: Metal Film	25 : 1/4 W	
ERQ: Fuse Type Metal	1 : 1 W	
RRD: Carbon (Chip Type)	18 : 1/8 W	

REPLACEMENT PARTS LIST

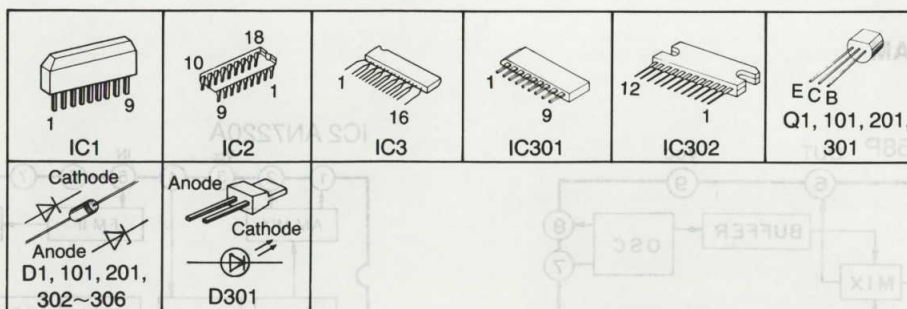
Important safety notice
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When replacing any of these components, use only manufacturer's specified parts.

Numbering System of Capacitor

Example	ECKD	1H	102	Z	F
Type	Voltage	Value (1000 pF)	Tolerance	Peculiarity	
ECEA	50	M	R47		
Type	Voltage	Peculiarity	Value (0.47 μ F)		

Capacitor Type	Voltage		Tolerance
	ECEA Type	Other	
ECEA: Electrolytic	0J : 6.3 V	2H : 500 V DC	C : ±0.25 pF
ECCD: Ceramic	1A : 10 V	1 : 100 V	J : ±5%
ECKD: Ceramic	1C : 16 V	DKC : 400 V AC	K : ±10%
ECQM: Polyester	1E : 25 V		Z : +80%
ECQP: Polypropylene	1H : 50 V		-20%
ECET: Electrolytic	1V : 35 V		P : +100%
ECEA□□□□: Non Polar Electrolytic	50 : 50 V		-0%
QCU □: Ceramic (Chip Type)	25 : 25 V		
ECUX: Ceramic (Chip Type)	16 : 16 V		

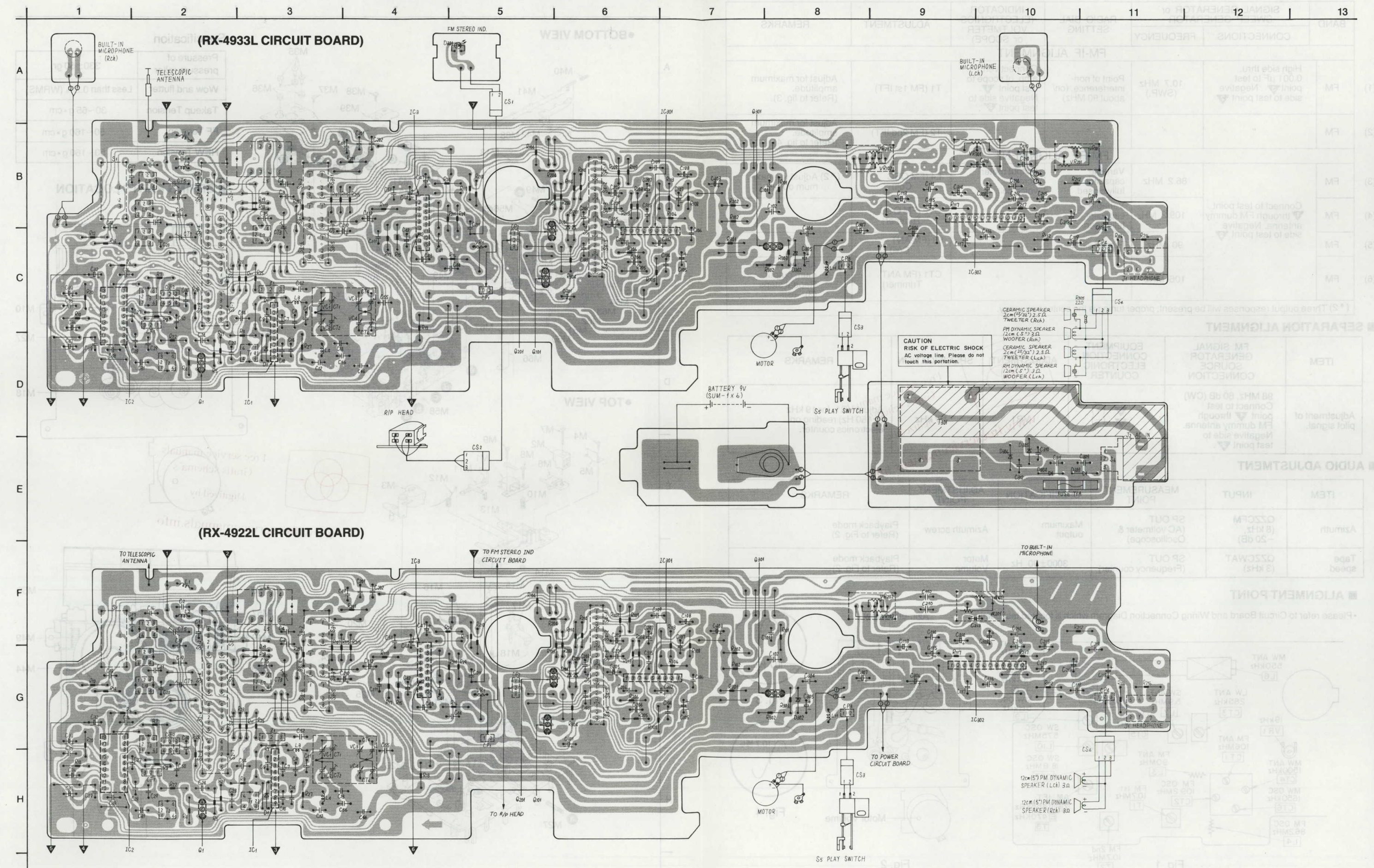
Ref. No.	Part. No.	Ref. No.	Part. No.	Ref. No.	Part. No.	Ref. No.	Part. No.
CAPACITORS				RESISTORS			
C1	ECCD1H120K	C30	ECCD1H470K	C115,215	ECEA0JU330	R16,101,201	ERD25J682 (RX-4933L only)
C2,31,51	ECCD1H330K	C32	ECEA0JU470	C118,218	ECEA0JU471	R17,302,304	ERD25FJ102
C3,12	ECCD1H470KC	C33	ECEA1CU100	C119,219	ECFT1C104MD (RX-4933L only)	R18,108,208	ERD25FJ330
C4	ECCD1H050C	C37	ECEA0JU221	C302	ECEA1CU220	R20	ERD25J473
C7,9	ECKD1H102KB	C39,54	ECCD1H331K	C305	ECEA1AU221	R27	ERD25FJ100
C8	ECCD1H040C	C40,42,108,113,208,213	ECEA1HU010	C306	ECEA1CU222	R101,102,104,204	ERD25FJ332 (RX-4922L only)
C10	ECCD1H180KC	C41,111,211	ECFT1E153MD	C307	ECEA1CF470	R104,204	ERD25FJ332 (RX-4933L only)
C11	ECCD1H200KC	C44	ECQG1H102KZ	C308	ECEA1CU102		
C13	ECCD1H150KC	C47,107,117,207,217,301,303	ECEA0JU101	C314	ECEA1AU101		
C14,24,46	ECKD1H103MD	C48,49,315	ECCD1H101K	RESISTORS			
C16	ECQP2A221JZ	C52	ECCD1H100K	R1,6,13,23,28,29,116,216,301	ERD25FJ101	R105,114,205,214	ERD25FJ103
C17	ECMS05141J	C55	ECKD1H102MD	R3,11,24,25,303	ERD25FJ470	R106,206	ERD25J823
C18	ECCD1H120KC	C56	ECCD1H020C	R4	ERD25J474	R107,207	ERD25J184
C19	ECQP2A361JZ	C101,119,219	ECFT1C104MD (RX-4922L only)	R5	ERD25FJ471	R110,115,210,215	ERD25FJ392 (RX-4933L only)
C20	ECCD1H070DC	C102,110,210	ECFT1E683MD (RX-4922L only)	R7,19,21,22	ERD25FJ221	R110,210	ERD25FJ392 (RX-4922L only)
C21	ECQP2A392JZ	C103,203	ECKD1H152MD	R8,15	ERD25FJ681	R112,212	ERD25FJ1R0
C23,304,309,310,311,312	ECCD1H103ZF	C104,204	ECKD1H472MD	R12,102,202	ERD25FJ222 (RX-4933L only)	R117,217	ERD25FJ151
C25,26,35,50	ECFT1E223MD (RX-4922L only)	C105,112,205,212	ECEA1HUR22	R12,115,215	ERD25FJ222 (RX-4922L only)	R305	ERD25FJ221 (RX-4933L only)
C25,26,35,50,102,202	ECFT1E223MD (RX-4933L only)	C106,206	ECKD1H471KB	R14,103,111,113,203,211,213	ERD25FJ472		
C27,116,216	ECCD1H181K	C109,209	ECFT1E333MD	R16	ERD25FJ682 (RX-4922L only)		
C28,29,38	ECFT1E473MD (RX-4922L only)	C110,210	ECFT1E683MD (RX-4933L only)				
C28,29,38,101,201	ECFT1E473MD (RX-4933L only)	C114,214	ECKD1H102ZF				



CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM MODEL RX-4933L/RX-4922L

(RX-4933L CIRCUIT BOARD)

(RX-4922L CIRCUIT BOARD)



FM ALIGNMENT

BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS	
	CONNECTIONS	FREQUENCY					
FM-IF ALIGNMENT							
(1)	FM	High side thru. 0.001 μ F to test point ∇ . 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. 3).
(2)	FM	"	"	"	"	T2 (FM 2nd IFT)	Adjust for maximum amplitude. (Refer to fig. 4).
FM-RF ALIGNMENT							
(3)	FM	Connect to test point ∇ through FM dummy antenna. Negative side to test point ∇ .	86.2 MHz	Variable capacitor fully closed.	Output meter across voice coil.	L4 (FM OSC Coil)	(* 2) Adjust for maximum output.
(4)	FM		109.2 MHz	Variable capacitor fully open.	"	CT2 (FM OSC Trimmer)	"
(5)	FM		90 MHz	Tune to signal.	"	L3 (FM ANT Coil)	"
(6)	FM		106 MHz	"	"	CT1 (FM ANT Trimmer)	(* 2) Adjust for maximum output. Repeat steps (3)~(6).
(* 2) Three output responses will be present; proper tuning is the center frequency.							

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

SEPARATION ALIGNMENT

ITEM	FM SIGNAL GENERATOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
Adjustment of pilot signal.	98 MHz, 60 dB (CW) Connect to test point ∇ through FM dummy antenna. Negative side to test point ∇ .	∇ ...(+) ∇ ...(-)	VR1	19 kHz	Adjust VR1, for 19 kHz (± 50 Hz) reading on electronics counter.

AUDIO ADJUSTMENT

ITEM	INPUT	MEASUREMENT POINT	SPECIFICATION	ADJUSTMENT POINT	REMARKS
Azimuth	QZZCFM (8 kHz, -20 dB)	SP OUT (AC voltmeter & Oscilloscope)	Maximum output.	Azimuth screw	Playback mode (Refer to Fig. 2)
Tape speed	QZZCWAT (3 kHz)	SP OUT (Frequency counter)	3000 $\pm$ 90 Hz	Motor Volume	Playback mode (Refer to Fig. 2)

ALIGNMENT POINT

•Please refer to Circuit Board and Wiring Connection Diagram which is located test point.

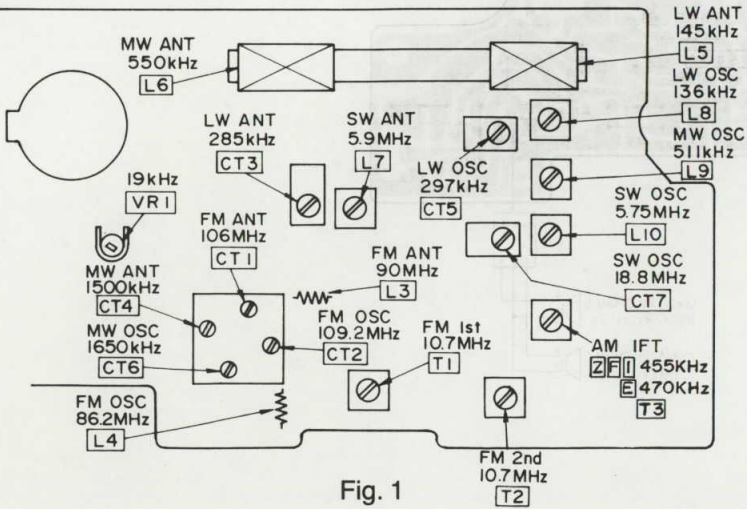


Fig. 1

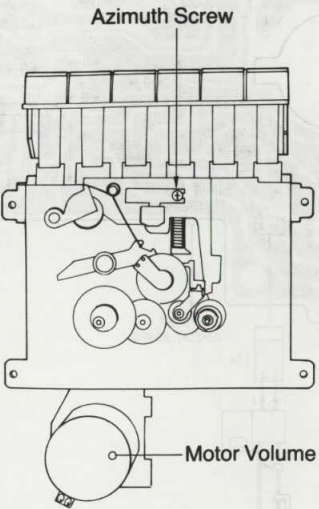


Fig. 2

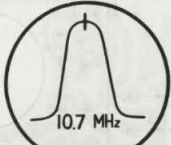


Fig. 3

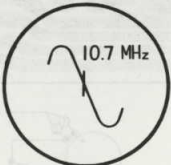
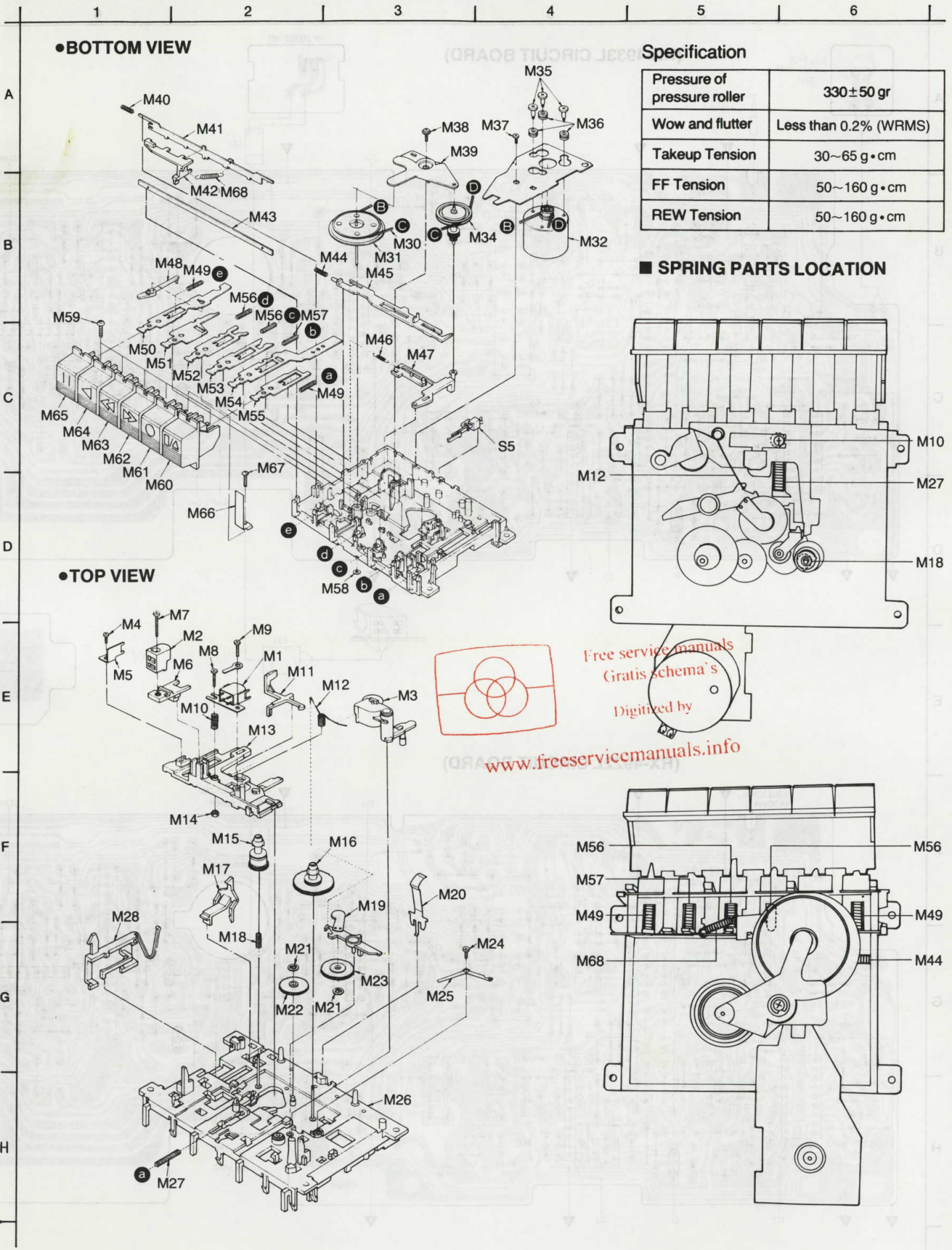


Fig. 4

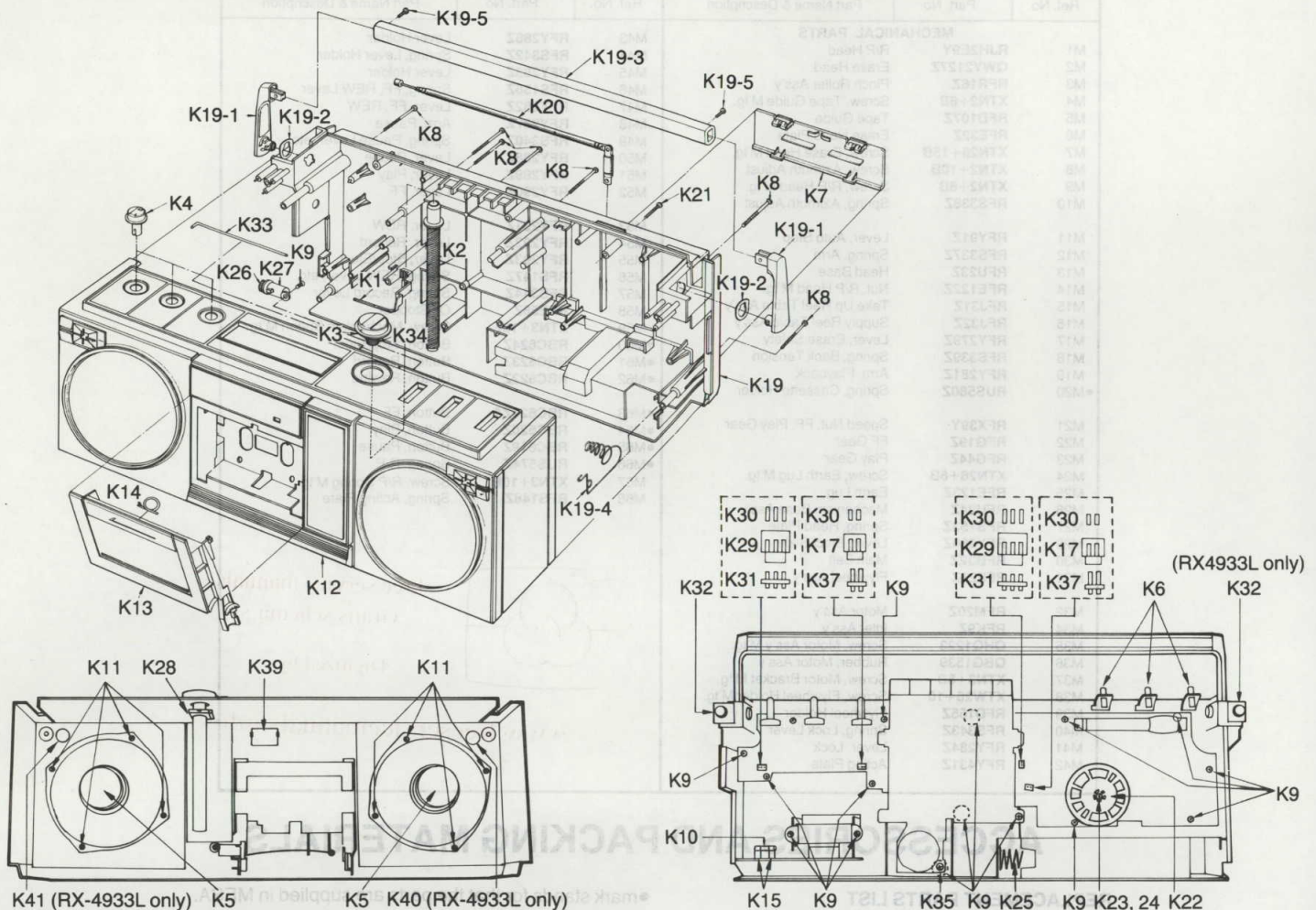
MECHANISM PARTS LOCATION



Free service manuals
Gratis schema's
Digitized by
www.freeservicemanuals.info

CABINET PARTS LOCATION

The only differences between the RX-4933L and the RX-4922L are in the front cabinet, tweeter and built-in microphone (stereo/monaural). For details, refer to the parts list.



REPLACEMENT PARTS LIST

Important safety notice
Components identified by a triangle mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts

Part numbers may differ according to shipping destination. Be sure to refer to the below destination codes before ordering replacement parts.

Note:

- [ZK]...For all European areas except United Kingdom (Black)
- [ZS]...For all European areas except United Kingdom (Silver)
- [EK]...For United Kingdom (Black)
- [FK]...For France (Black)
- [IK]...For Italy (Black)

•mark stands for that the parts are supplied in MESA.

Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description
Same Parts Both RX-4933L and RX-4922L			K19-4	RJC931Z	Terminal Battery (+/-)	•K19 [ZK]	RYFX4933LZKS	Rear Cabinet Ass'y
•K1	RDP2622Z	Pointer, Dial	K19-5	XTB3+8CFN	Screw, Handle M'tg.	•K19 [FK][IK]	RYFX4933LZFK	Rear Cabinet Ass'y
K2	RDG5807Y	Warm Gear	K20	XEARR225DAK	Telescopic Antenna	•K19 [EK]	RYFX4933LZEK	Rear Cabinet Ass'y ⚠ (RX-4933L only)
•K3 [ZK][EK][FK][IK]	RBN689Z	Knob, Tuning	K21	XYN3+F15F	Screw, Telescopic Antenna M'tg.	•K19 [ZS]	RYFX4933LZK7	Rear Cabinet Ass'y
•K3 [ZS]	RBN689Z1	Knob, Tuning	K22	RDG5699Z	Drum Gear			
•K5	RAS12P14Z	Speaker, Woofer	K23	XSN26+8	Screw, Drum Dial M'tg.	•K26	RDG5729Z	Soft Gear
•K6 [ZK][EK][FK][IK]	RBS226Z	Knob, Selector, Band, FM Mode	K24	XWA26B	Washer, Drum Dial M'tg.	•K27	RME337Z	Holder, Soft Gear
•K6 [ZS]	RBS226Z1	Knob, Selector, Band, FM Mode	K25	RJC511Z	Terminal Battery (-)	•K28	RUL719Z	Bracket, Warm Gear
•K7 [ZK][EK][FK][IK]	RKK224Y	Battery Cover	K29	RJS3L1Z	Socket (3P)	•K39	RUP1808Z	Print Circuit Board
•K7 [ZS]	RKK224Y7	Battery Cover	K30	RJT462Z	Terminal, Socket	•K40	RAF15DA9CB2	Speaker, Tweeter (Lch)
K8	XTN3+35G	Screw, Cabinet M'tg.	K31	RJP3G1Z	Plug (3P)	•K41	RAF15DA9CB3	Speaker, Tweeter (Rch)
K9	XTV3+12G	Screw, Circuit Board, etc. M'tg.	K32	RJM151Z	Built-in Microphone	RX-4922L only		
K10	XBA2C10TR0	Fuse, T1A ⚠	•K33	RUS534Z	Spring, Cassette Panel	•K4 [ZK][EK][FK][IK]	RBN670X	Knob, Balance, Volume
K11	XTV3+10G	Screw, Speaker M'tg.	K34	RDS5032Z	Spring, Tuning Knob	•K4 [ZS]	RBN670X1	Knob, Balance, Volume
•K14	RUS577Z	Spring, Cassette Tape	K35	RJT514Z	Terminal, Earth	•K12 [ZK][FK][IK]	RYMX4922LZ91	Front Cabinet Ass'y
K15	QTF1054	Fuse Holder	K37	RJP2G1Z	Plug (2P)	•K12 [EK]	RYMX4922LE91	Front Cabinet Ass'y ⚠
K17	RJS2L1Z	Socket (2P)	RX-4933L only			•K12 [ZS]	RYMX4922LZK8	Front Cabinet Ass'y
•K19-1	RKX248Y	Arm, Handle	•K4 [ZK][EK][FK][IK]	RBN670X	Knob, Tone, Balance, Volume	•K13	RKG95X	Cassette Panel
•K19-2	RKX257Z	Spacer, Handle	•K12 [ZK][FK][IK]	RBN670X1	Knob, Tone, Balance, Volume	•K19 [ZK]	RYFX4922LZKS	Rear Cabinet Ass'y
•K19-3 [ZK][EK][FK][IK]	RKX311Z	Handle	•K12 [EK]	RYMX4933LZ91	Front Cabinet Ass'y	•K19 [FK][IK]	RYFX4922LZFK	Rear Cabinet Ass'y
•K19-3 [ZS]	RKX311Z1	Handle	•K12 [ZS]	RYMX4933LZK8	Front Cabinet Ass'y ⚠	•K19 [EK]	RYFX4922LZFE	Rear Cabinet Ass'y ⚠
			•K13	RKG95W	Cassette Panel	•K19 [ZS]	RYFX4922LZK7	Rear Cabinet Ass'y
						•K39	RUP1958Z	Print Circuit Board

MECHANISM PARTS LIST

● mark stands for that the parts are supplied in MESA.

Ref. No.	Part. No.	Part Name & Description	Ref. No.	Part. No.	Part Name & Description
MECHANICAL PARTS					
M1	RJH2E9Y	R/P Head	M43	RFY286Z	Lever Holder
M2	QWY2127Z	Erase Head	M44	RFS342Z	Spring, Lever Holder
M3	RFR16Z	Pinch Roller Ass'y	M45	RFY283Z	Lever Holder
M4	XTN2+6B	Screw, Tape Guide M'tg.	M46	RFS156Z	Spring, FF, REW Lever
M5	RFD107Z	Tape Guide	M47	RFY282Z	Lever, FF, REW
M6	RFE32Z	Erase Head Plate	M48	RFY287Z	Arm, Pause
M7	XTN26+15B	Screw, Erase Head M'tg.	M49	RFS340Z	Spring, Pause Lever, etc.
M8	XTN2+10B	Screw, Azimuth Adjust	M50	RFY288Z	Lever, Pause
M9	XTN2+8B	Screw, R/P Head M'tg.	M51	RFY289Z	Lever, Play
M10	RFS338Z	Spring, Azimuth Adjust	M52	RFY290Z	Lever, FF
M11	RFY91Z	Lever, Auto Stop	M53	RFY291Z	Lever, REW
M12	RFS337Z	Spring, Arm	M54	RFY292Z	Lever, Record
M13	RFU23Z	Head Base	M55	RFY293Z	Lever, Stop/Eject
M14	RFE122Z	Nut, R/P Head M'tg.	M56	RFS147Z	Spring, REW Lever, etc.
M15	RFJ31Z	Take Up Reel Table Ass'y	M57	RFS344Z	Spring, Record Lever
M16	RFJ32Z	Supply Reel Table Ass'y	M58	RFE58Z	Oil Stopper
M17	RFY279Z	Lever, Erase Safety	M59	XTN3+10F	Screw, Mechanism Button M'tg.
M18	RFS339Z	Spring, Back Tension	●M60	RBC624Z	Button, Stop/Eject
M19	RFY281Z	Arm, Playback	●M61	RBC623Z	Button, Record
●M20	RUS580Z	Spring, Cassette Holder	●M62	RBC622Z	Button, Rewind
M21	RFX39Y	Speed Nut, FF, Play Gear	●M63	RBC621ZA	Button, FF
M22	RFG19Z	FF Gear	●M64	RBC620Z	Button, Play
M23	RFG44Z	Play Gear	●M65	RBC619Z	Button, Pause
M24	XTN26+6B	Screw, Earth Lug M'tg.	●M66	RUS574Z	Spring, R/P
M25	RFE123Z	Earth Lug	M67	XTN3+10B	Screw, R/P Spring M'tg.
M26	RFU24Z	Mechanism Base Ass'y	M68	RFS148Z	Spring, Acting Plate
M27	RFS153Z	Spring, Head Plate			
M28	RFY280Z	Lever, Eject Slide			
M30	RFB32Z	Main Belt			
M31	RFF21Z	Flywheel Ass'y			
M32	RFM20Z	Motor Ass'y			
M34	RFK9Z	Idler Ass'y			
M35	QHQ1223	Screw, Motor Ass'y M'tg.			
M36	QBG1539	Rubber, Motor Ass'y			
M37	XTN3+8B	Screw, Motor Bracket M'tg.			
M38	XTW26+10	Screw, Flywheel Holder M'tg.			
M39	RFD155Z	Flywheel Holder			
M40	RFS343Z	Spring, Lock Lever			
M41	RFY284Z	Lever, Lock			
M42	RFY431Z	Acting Plate			

ACCESSORIES AND PACKING MATERIALS

REPLACEMENT PARTS LIST

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.

Part numbers may differ according to shipping destination. Be sure to refer to the below destination codes before ordering replacement parts.

Note:

□...For all European areas except United Kingdom

□...For United Kingdom

□...For France

□...For Italy

● mark stands for that the parts are supplied in MESA.

Ref. No.	Part. No.	Part Name & Description
ACCESSORIES		
A1	RJA43Z	Power Cord, AC ▲
A1	RJA20Z	Power Cord, AC ▲
●A2	RQX4625Z	Instruction Book (RX-4922L only)
●A2	RQX4624Z	Instruction Book (RX-4933L only)
PACKINGS		
●P1	RPN9505Z	Pad Complete
●P2	RPK2060Z	Gift Box (RX-4922L only)
●P2	RPK2073Z	Gift Box (RX-4933L only)
●P3	XZB60X40A01	Polyethylene Cover