

# Service Manual

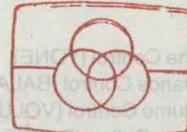
Radio Cassette

**RX-4930L**

(Metallic Brown)

(Silver)

FM-LW-MW-SW  
Stereo Radio Cassette Recorder



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This is the Service Manual  
for the following areas.

- ...For all European areas except United Kingdom and Germany.
- ...For United Kingdom.
- ...For France.
- ...For Italy.

## ■ SPECIFICATIONS

### General:

Power Requirement:	AC; <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> ...220 v, 50 Hz <input type="checkbox"/> ...240 V, 50 Hz (only for U.K.)
Battery:	9 V (Six "D" Size Flashlight Batteries) (Panasonic UM-1 or equivalent)
Power Consumption:	13 W (AC only)
Power Output:	8 W (4 W×2)...RMS (max.) 8 W (4 W×2)...MPO
Speaker:	5 W (2.5 W×2)...DIN (for Sweden) 12 cm (5") PM Dynamic Speaker (3Ω)
Output:	HEADPHONES; 32Ω
Dimensions:	475 mm(W)×183 mm(H)×132 mm(D) (18 <sup>11</sup> / <sub>16</sub> ×7 <sup>3</sup> / <sub>16</sub> ×5 <sup>3</sup> / <sub>16</sub> )"
Weight:	2.7 kg (5 lb. 15 oz.) 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  
   ...AM (LW/MW/SW); 455 kHz  
 ...AM (LW/MW/SW); 470 kHz  
FM: 3.5μV (-3 dB Limit sense)  
LW: 141μV/m/50 mW output  
MW: 112μV/m/50 mW output  
SW: 8.9μV/50 mW output

### Tape Deck Section:

Frequency Response: 80~8,000 Hz (with normal tape)  
DC bias, MAGNET erase  
Recording system: 4.8 cm/s, (1<sup>7</sup>/<sub>8</sub> ips)  
Tape Speed: 1 hour with C-60 cassette tape  
Program Time: 4-track 2 channel stereo recording and playback

Design and specifications are subject to change without notice.

# Panasonic

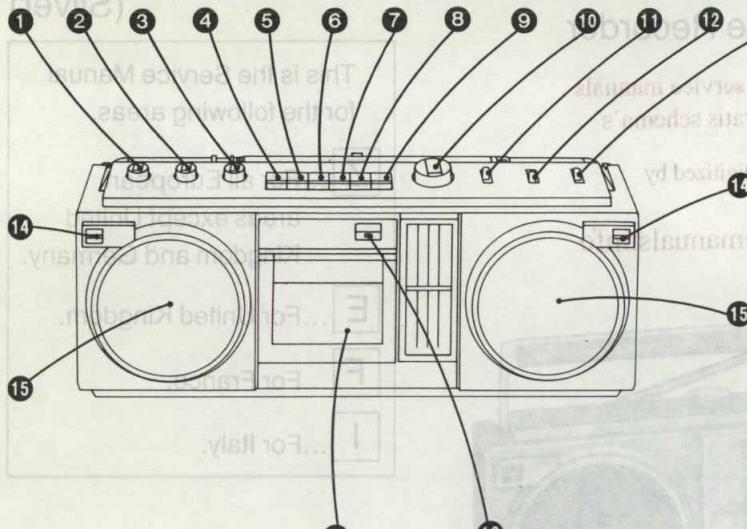
Matsushita Electric Trading Co., Ltd.  
P.O. Box 288, Central Osaka Japan

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## LOCATION OF CONTROLS AND COMPONENTS



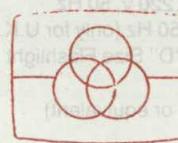
- ① Tone Control (TONE)
- ② Balance Control (BALANCE)
- ③ Volume Control (VOLUME)
- ④ Pause Button (PAUSE)
- ⑤ Fast Forward Button (FF)
- ⑥ Rewind Button (REWIND)
- ⑦ Playback Button (PLAY)
- ⑧ Record Button (RECORD)
- ⑨ Stop/Eject Button (STOP/EJECT)
- ⑩ Tuning Control (TUNING)
- ⑪ Function Selector (SELECTOR)  
[RADIO, TAPE/POWER OFF]
- ⑫ Band Selector (BAND) [FM STEREO, FM, AM]
- ⑬ FM Mode Selector (FM MODE)

•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 Built-in Speakers [12 cm (5") 3Ω]
- ⑯ FM Stereo Indicator (FM STEREO)
- ⑰ Cassette Compartment
- ⑱ Telescopic Antenna
- ⑲ Headphone Jack (PHONES) [M3/Ø3.5, 32Ω]
- ⑳ AC Socket (AC IN ~)

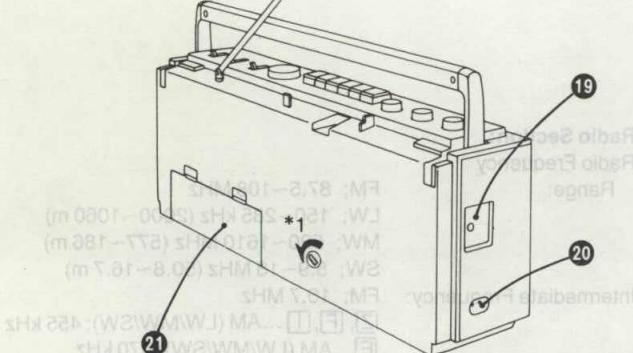
- \*1 When the tape is caught in the pinch roller, etc. Release the tape by turning the pulley on the motor with the screwdriver in the direction of the arrow.
- ㉑ Battery Compartment



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## DISASSEMBLY INSTRUCTIONS

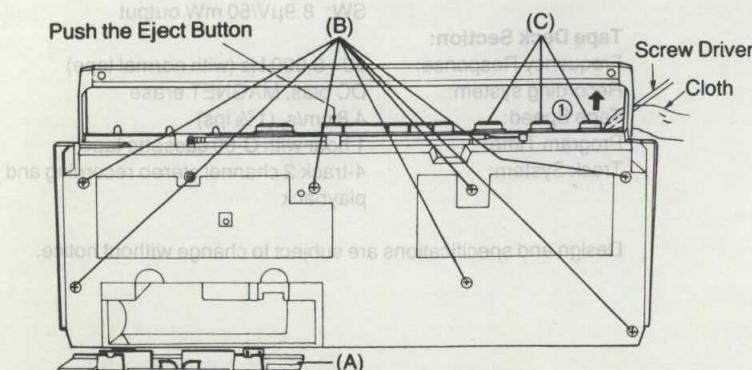


Fig. 1

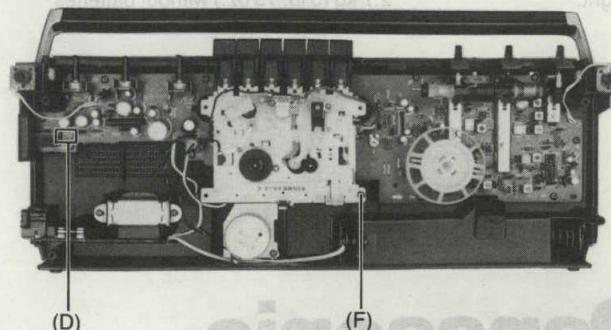
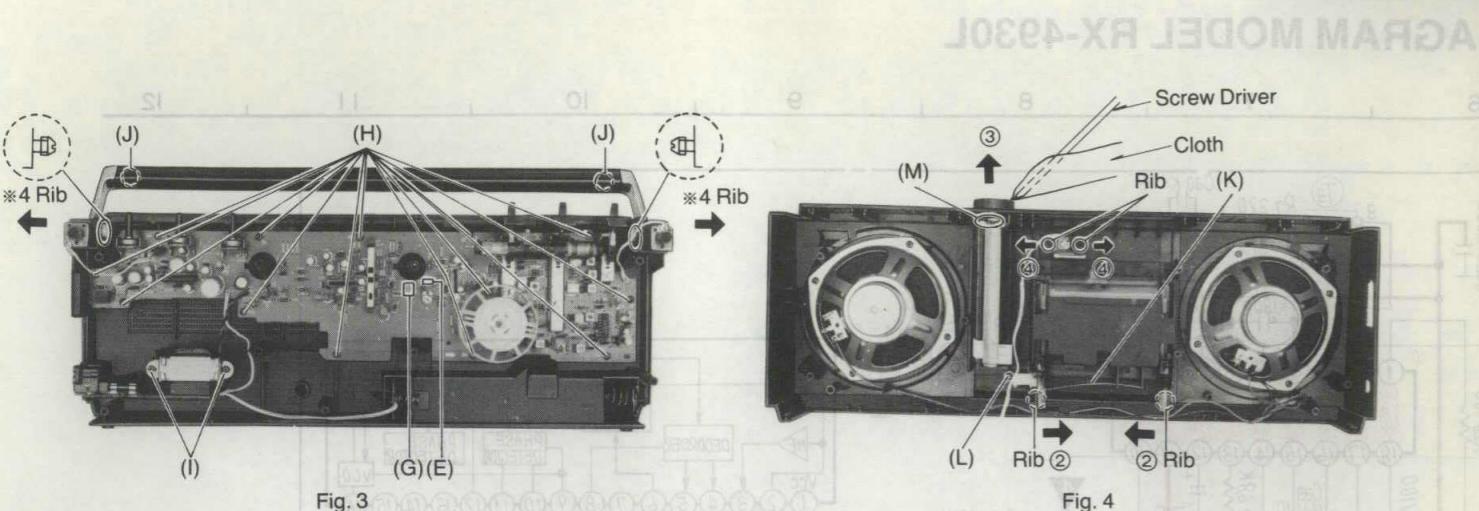
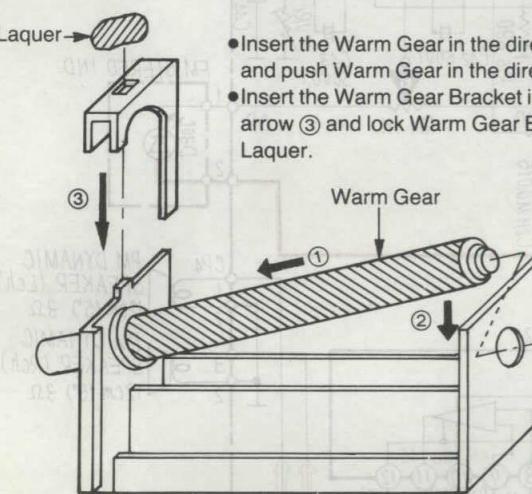


Fig. 2

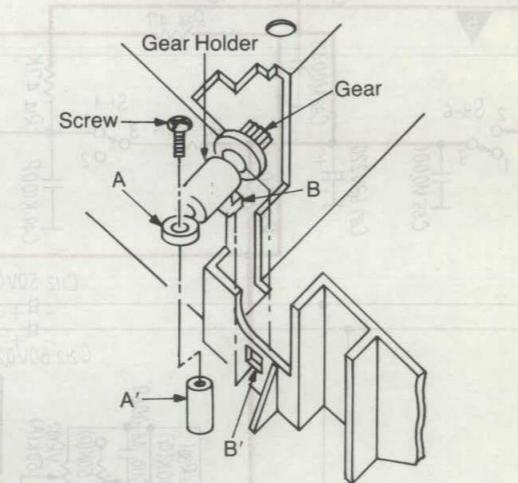


### ■ HOW TO REPLACE

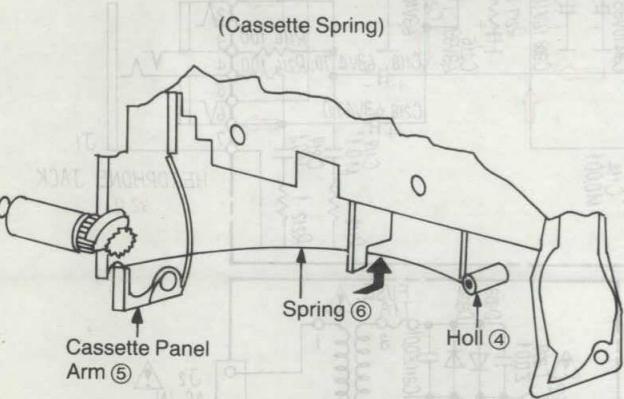


- Insert the Warm Gear in the direction of arrow ① and push Warm Gear in the direction of arrow ②.
- Insert the Warm Gear Bracket in the direction of arrow ③ and lock Warm Gear Bracket with Lacquer.

(Warm Gear)



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



- Insert the spring into the holl ④ and hook to the Cassette Panel Arm ③.
- Push the Spring in the direction of arrow ⑤ and hook to the rib.

Ref. No.	Procedure	Shown in Fig.—	To remove—	Remove—
1		1		Battery Cover (A) x 1
2		1		Screw (3 x 35) (B) x 7
3		1		Remove the knob in the direction of arrow ① (C) x 3
4		1		Push the Eject Button
5		2		Socket (D) x 1
6		3		Socket (E) x 1
7		2		Screw (3 x 12) (F) x 1
8		3		Socket (G) x 1

Ref. No.	Procedure	Shown in Fig.—	To remove—	Remove—
9	1~9	3	Main Circuit Board	Screw (3 x 12) (H) x 12
10	1~6, 10	3	Power Transformer	Screw (3 x 12) (I) x 2
11	1~6, 11	3	Handle (※3)	Screw (3 x 8) (J) x 2
12		4		Spring (K) x 1
13	1~6, 12~14	4	Cassette Panel	Screw (3 x 12) (L) x 1
14		4		To remove Cassette Panel, push the rib in the direction of arrow ②.
15	1~6, 15, 16	4	Warm Gear	Remove the adhesion by Knife (M)
16		4		Remove the knob in the direction of arrow ③.
17	1~6, 17	4	LED Circuit Board	Remove the LED Circuit Board in the direction of arrow ④.

※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.	6. Set function selector to radio.				
2. Set tone control to maximum.	7. Set power source voltage to 9 V DC.				
3. Set bass and treble control to center.	8. Output of signal generator should be no higher than necessary to obtain an output reading.				
4. Set band switch to LW, MW, SW or FM.					
5. Set balance control to center.					

### ■ 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. (on/ about 600 kHz)	Output meter across voice coil.	T3 (AM IFT)	Adjust for maximum output.

### ■ LW-RF ALIGNMENT

(2) LW	"	136 kHz	Tuning capacitor fully closed.	"	L8 (LW OSC Coil)	"
(3) LW	"	297 kHz	Tuning capacitor fully open.	"	CT5 (LW OSC Trimmer)	"
(4) LW	"	145 kHz	Tune to signal.	"	(+1) L5 (LW ANT Coil)	Adjust for maximum output. Adjust L5 by moving coil bobbin along ferrite core.
(5) LW	"	285 kHz	"	"	CT3 (LW ANT Trimmer)	Adjust for maximum output. Repeat steps (2)~(5).

### ■ MW-RF ALIGNMENT

(6) MW	"	511 kHz	Tuning capacitor fully closed.	"	L9 (MW OSC Coil)	Adjust for maximum output.
(7) MW	"	1,650 kHz	Tuning capacitor fully open.	"	CT6 (MW OSC Trimmer)	"
(8) MW	"	550 kHz	Tune to signal.	"	(+1) L6 (MW ANT Coil)	Adjust for maximum output. Adjust L6 by moving coil bobbin along ferrite core.
(9) 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

(10) SW		5.75 MHz	Tuning capacitor fully closed.	"	L10 (SW OSC Coil)	Adjust for maximum output.
(11) SW		18.8 MHz	Tuning capacitor fully open.	"	CT7 (SW OSC Trimmer)	"
(12) SW		5.9 MHz	Tune to signal.	"	L7 (SW ANT Coil)	Adjust for maximum output. Repeat steps (10)~(12).

### ■ 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 $\mu$ F to test point $\nabla$ . Negative side to test point $\nabla$ .	10.7 MHz (SWP.)	Point of non-interference. (on/ about 90 MHz)	Connect vert. amp. of scope to test point $\nabla$ . Negative side to test point $\nabla$ .	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		86.2 MHz	Variable capacitor fully closed.	Output meter across voice coil.	L4 (FM OSC Coil)	(-2) Adjust for maximum output.
(4) FM		109.3 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).

### ■ SEPARATION ALIGNMENT

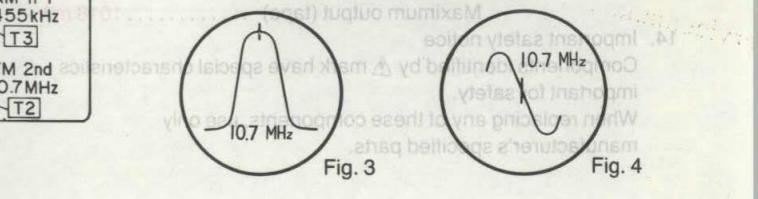
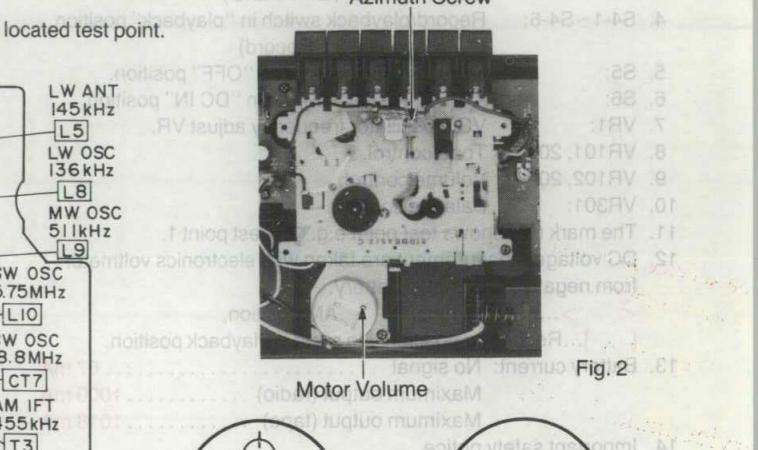
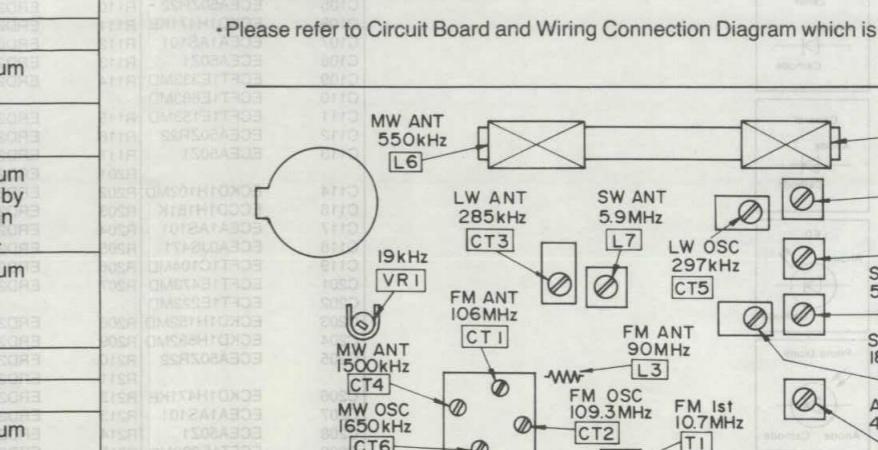
ITEM	FM SIGNAL GENERATOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
Adjustment of pilot signal.	98 MHz, 60 dB (CW) Connect to test point $\nabla$ through FM dummy antenna. Negative side to test point $\nabla$ .	VR1		19 kHz	Adjust VR1, for 19 kHz ( $\pm 150$ 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±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.



## SCHEMATIC DIAGRAM MODEL RX-4930L

## ■ IC BLOCK DIAGRAM

## IC2 RVIBA4232L

Ref No.	Part No.	Function Name	Zone
IC1	RVITA7358P	FM FRONT END	A.3
IC2	ANT7220A	FM/AM IF AMP, DET, AM OSC, MIX	B.7
IC3	RVIBA1332L	FM MPX	B.10
IC301	ANT7310	EQ/PRE AMP	E.5
IC302	RVIBA5406	POWER AMP	D.10
Q1	2SC1675	FM IF AMP	A.5
Q101	2SA733	REC AGC	F.4
Q201	2SA733	REC AGC	F.4
Q301	2SC2001	REGULATOR	G.8
D1	RVDIN4148	AGC	
D101	RVDIN4148	AGC RECT	
D201	RVDIN4148	AGC RECT	
D301	LNO12176P	FM STEREO IND	
D302	RVDTZ6R8C	REGULATOR	
D303	RVD1SR35	RECT	
D304	RVD1SR35	RECT	
D305	RVD1SR35	RECT	
D306	RVD1SR35	RECT	

## ELECTRICAL PARTS LIST

## Numbering System of Resistor

Example	ERD	25	F	J	101
Type	Wattage	Shape	Tolerance	Value	(100)
ERX	2	AN			2R2

Resistor Type	Wattage	Tolerance
ERD: Carbon	10 1/8 W	J: $\pm 5\%$
ERD: Metal Film	12 1/2 W	
ERX: Metal Film	25 1/4 W	
ERX: Fust Type Metal	1 1/1 W	
RRD: Carbon (Chip Type)	18 1/8 W	

## Numbering System of Capacitor

Example	ECKD	1H	102	Z	F
Type	Voltage	Value	(1000 pF)	M	
ERX	50			R47	

Resistor Type	Wattage	Tolerance
ERD: Carbon	25 1/2 W	J: $\pm 5\%$
ERD: Metal Film	1 1/2 W	
ERX: Metal Film	25 1/4 W	
ERX: Fust Type Metal	1 1/1 W	
RRD: Carbon (Chip Type)	18 1/8 W	

## Notes:

1. S1:

FM Mode switch in "MONO" position.

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. DC voltage measurement are taken with electronics voltmeter

from negative terminal of battery.

&lt;...FM position,

...AM position,

[...Recording position, No mark...Playback position.

13. Battery current: No signal

67 mA

Maximum output (radio)

1000 mA

Maximum output (tape)

1018 mA

&gt;...FM position,

...AM position,

[...Recording position, No mark...Playback position.

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67 mA

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Maximum output (tape)

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1018 mA

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67 mA

Maximum output (radio)

1000 mA

Maximum output (tape)

1018 mA

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...AM position,

[...Recording position, No mark...Playback position.

13. Battery current: No signal

67 mA

Maximum output (radio)

1000 mA

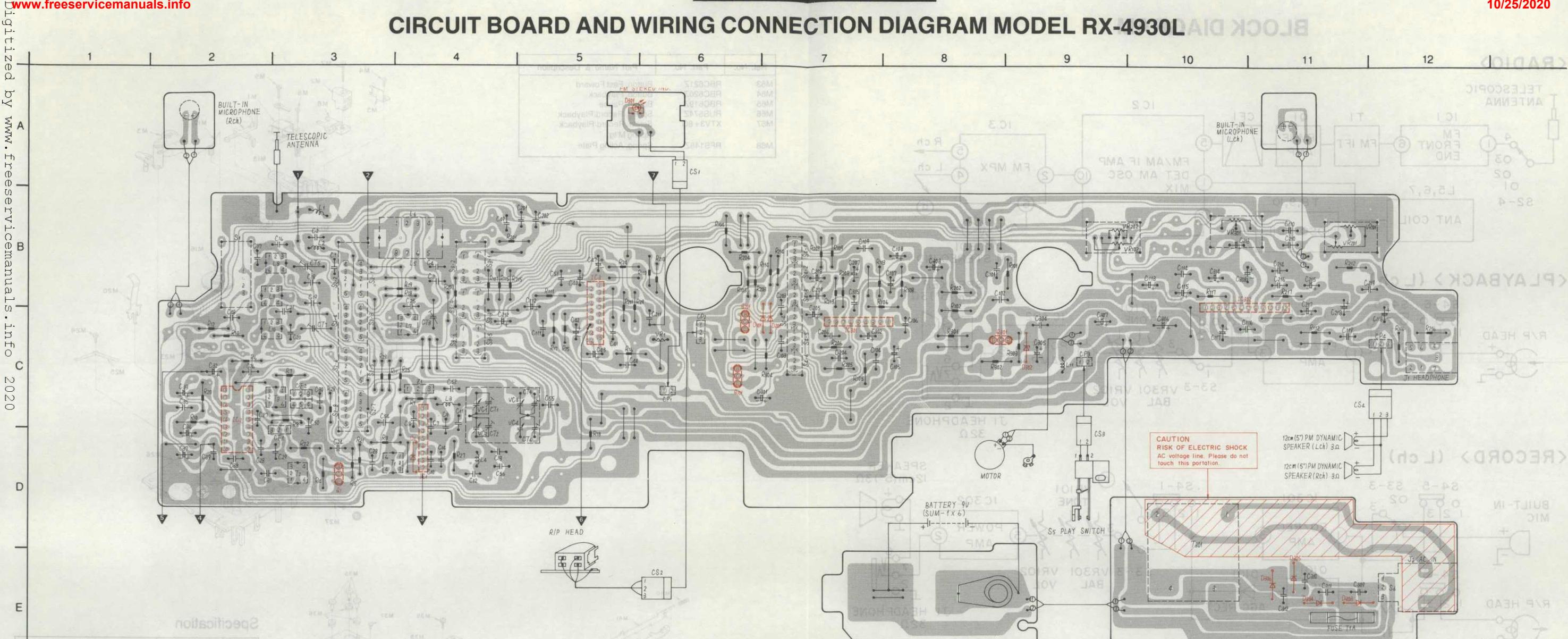
Maximum output (tape)

1018 mA

&gt;...FM position,

...AM position,

## CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM MODEL RX-4930L



## REPLACEMENT PARTS LIST

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

## Note:

[ZT]... For all European areas except United Kingdom (Metallic Brown)  
[ZS]... For all European areas except United Kingdom (Silver)  
[ET]... For United Kingdom (Metallic Brown)

[FT]... For France (Metallic Brown)  
[FS]... For France (Silver)  
[IT]... For Italy (Metallic Brown)  
[IS]... For Italy (Silver)

Ref. No.	Part. No.	Part Name & Description
<b>INTEGRATED CIRCUITS</b>		
IC1	RVITA7358P	IC
IC2	AN7220A	IC
IC3	RVIBA1332L	IC
IC301	AN7310	IC
IC302	RVIBA5406	IC
<b>TRANSISTOR</b>		
Q1	2SC1675K1	Transistor (Si)
Q101,201	2SA733-P10	Transistor (Ge)
Q301	2SC2001K1	Transistor (Si)
<b>DIODES &amp; RECTIFIERS</b>		
D1,101,201	RVDIN4148	Diode (Si)
D301	LN012176P	LED, FM Stereo
D302	RVDTZ6R8C	Diode (Si)
D303~306	RVDISR35	Diode (Si)
<b>COILS</b>		
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 Coil

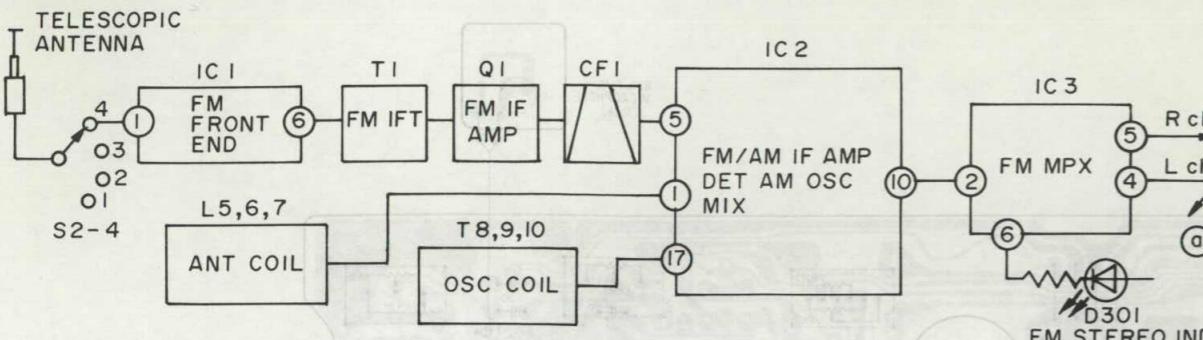
Ref. No.	Part. No.	Part Name & Description
<b>TRANSFORMERS</b>		
T1,2	RLI4B153	IFT, FM 1st, 2nd
T3	RLI2B153	IFT, AM
T301 [ZT] [ZS] [FT] [FS] [IT] [IS]	RLT5K3G3A	Power Transformer $\Delta$
T301 [ET]	RLT5K3E2A	Power Transformer $\Delta$
<b>VARIABLE CAPACITORS</b>		
VC1~4	RCV4RC2RA	Variable Capacitor/with Trimmer Capacitor (CT1,2,4,6)
<b>TRIMMER CONDENSER</b>		
CT3	RCVPL30A	Trimmer Capacitor
CT5	RCVPL20A	Trimmer Capacitor
CT7	RCVPL10A	Trimmer Capacitor
<b>VARIABLE RESISTORS</b>		
VR1~VR101,201	EVNK4AA00B14	Variable Resistor, 10 k $\Omega$ (B)
	EWCVHAF20D54	Variable Resistor, 50 k $\Omega$ (D)
VR102,202	EWCUHAF20A54	Variable Resistor, 50 k $\Omega$ (A)
VR301	EWH7MAF20G15	Variable Resistor, 100 k $\Omega$ (G)

Part No.	Part Name & Description	Part No.	Part Name & Description
IC1	18	IC2	10
IC3	16	IC301	9
IC302	12	Q1, 101, 201, 301	1
D301	Anode Cathode	D1, 101, 201, 302~306	Anode Cathode

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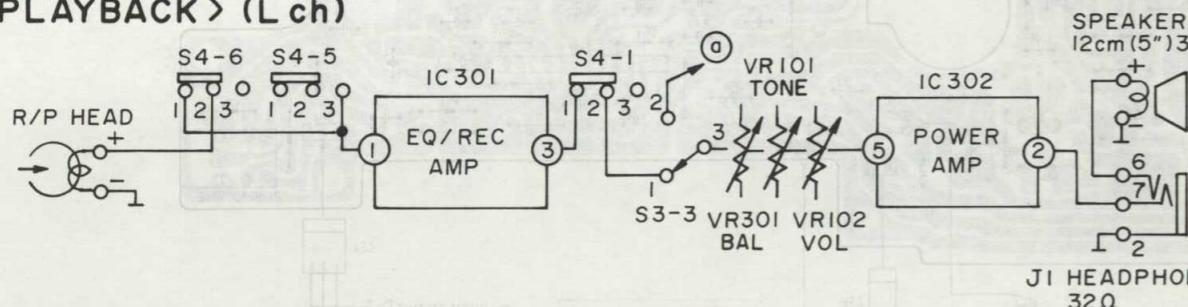
## BLOCK DIAGRAM CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM RX-4930L

## &lt;RADIO&gt;

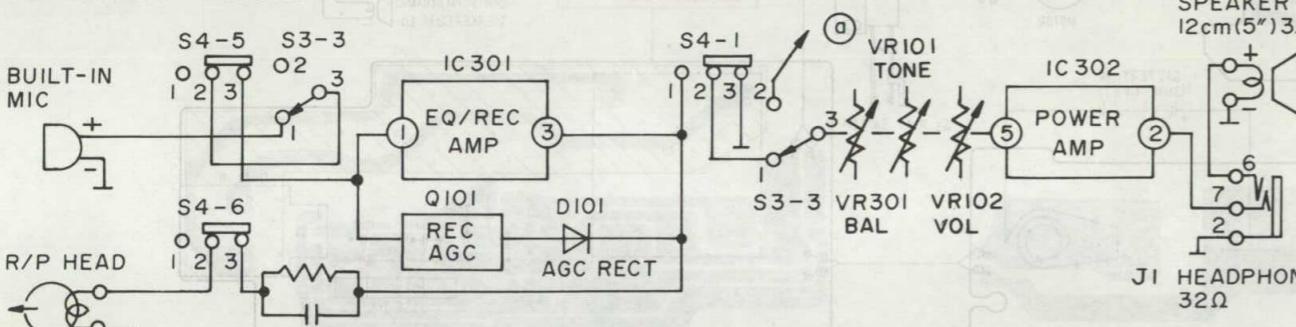


Ref. No.	Part. No.	Part Name & Description
M63	RBC621Z	Button, Fast Forward
M64	RBC620Z	Button, Playback
M65	RBC619Z	Button, Pause
M66	RUS574Z	Spring, Record/Playback
M67	XTV3+8G	Screw, Record/Playback
M68	RFS148Z	Spring, M'tg.
		Spring, Acting Plate

## &lt;PLAYBACK&gt; (L ch)

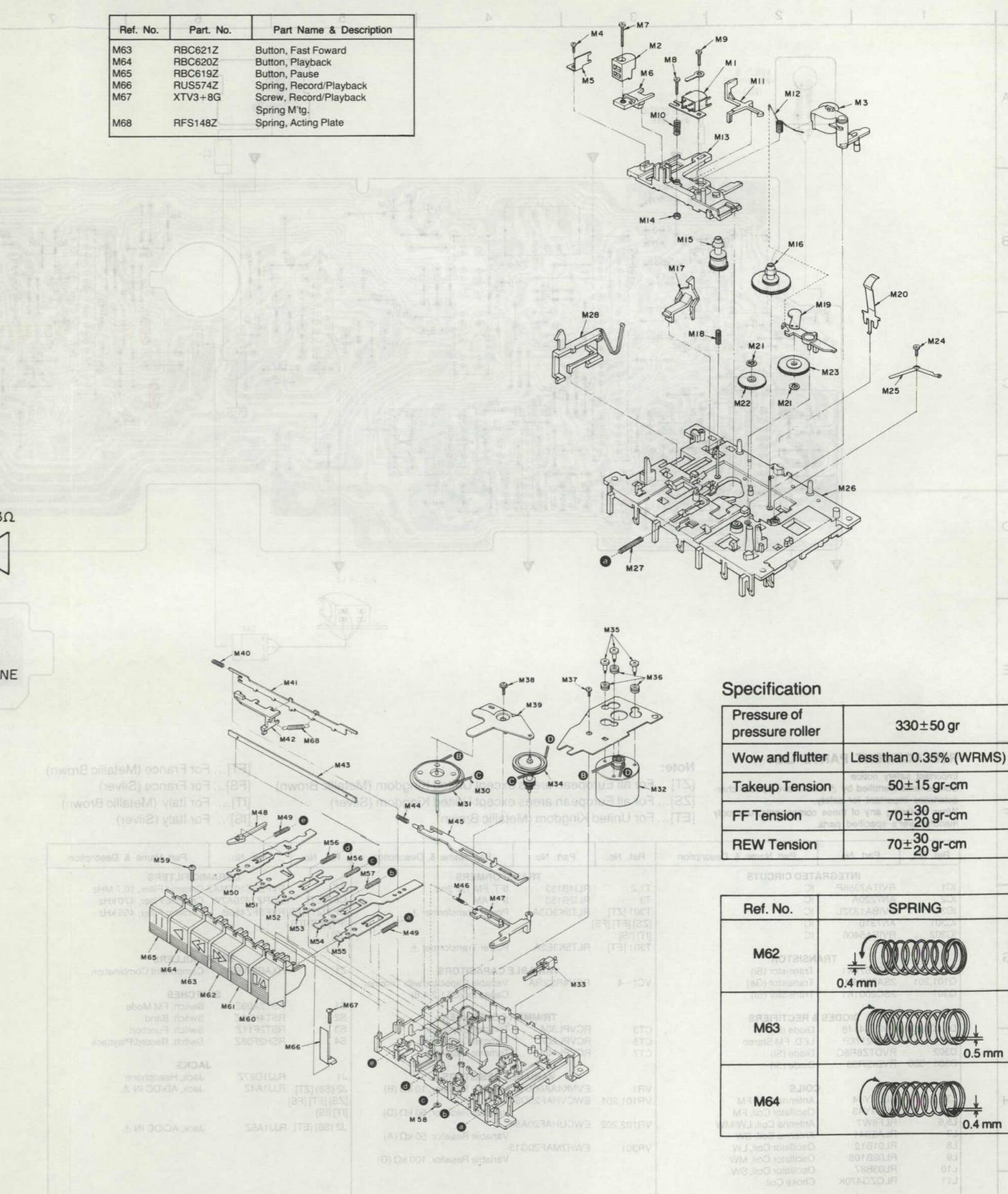


## &lt;RECORD&gt; (L ch)



## MECHANISM PARTS LOCATION

Ref. No.	Part. No.	Part Name & Description	Ref. No.	Part. No.	Part Name & Description
<b>MECHANICAL PARTS</b>					
M1	RJH2E4Y	Record/Playback Head	M32	RFM20Z	Motor Ass'y with Pulley
M2	QWY2127Z	Erase Head	M34	RFK9Z	Idler Ass'y
M3	RFR16Z	Pinch Roller Ass'y	M35	QHQ1223	Screw, Motor Ass'y M'tg
M4	XTN2+6B	Screw, Tape Guide M'tg	M36	QBG1539	Rubber, Motor Ass'y
M5	RFD107Z	Tape Guide	M37	XTN3+8B	Screw, Motor Bracket M'tg
M6	RFE32Z	Erase Head Base	M38	XTW26+10	Screw, Flywheel Holder M'tg
M7	XTN26+15B	Screw, Erase Head M'tg	M39	RFD155Z	Flywheel Holder
M8	XTN2+10B	Screw, Azimuth Adjust	M40	RFS343Z	Spring, Lock Lever
M9	XTN2+8B	Screw, Record/Playback Head M'tg	M41	RFY284Z	Lever, Lock
M10	RFS338Z	Spring, Azimuth Adjust	M42	RFY431Z	Acting Plate
M11	RFY91Z	Lever, Auto Stop	M43	RFY286Z	Lever Holder
M12	RFS337Z	Spring, Arm	M44	RFS342Z	Spring, Lever Holder
M13	RFU23Z	Head Base	M45	RFY283Z	Lever Holder
M14	RFE122Z	Nut, Record/Playback Head M'tg	M46	RFS156Z	Spring, Fast Forward, Rewind Lever
M15	RFJ31Z	Take Up Reel Table Ass'y	M47	RFY282Z	Lever, Fast Forward, Rewind Arm, Pause
M16	RFJ32Z	Supply Real Table Ass'y	M48	RFY287Z	Spring, Pause Lever etc.
M17	RFY279Z	Lever, Erase Safety	M49	RFS340Z	Lever, Pause
M18	RFS339Z	Spring, Back Tension	M50	RFY288Z	Lever, Playback
M19	RFY281Z	Playback Arm	M51	RFY289Z	Lever, Fast Forward
M20	RUS580Z	Spring, Cassette Holder	M52	RFY290Z	Lever, Rewind
M21	RFX39Y	Speed Nut, Fast Forward, Playback Gear	M53	RFY291Z	Lever, Record
M22	RFG19Z	Fast Forward Gear	M54	RFY292Z	Lever, Stop/Eject
M23	RFG44Z	Playback Gear	M55	RFY293Z	Spring, Rewind Lever, etc.
M24	XTN26+6B	Screw, Earth Lug M'tg	M56	RFS147Z	Spring, Record Lever
M25	RFE123Z	Earth Lug	M57	RFS344Z	Oil Stopper
M26	RFU24Z	Mechanism Base Ass'y	M58	RFE58Z	Screw, Mechanism Button M'tg
M27	RFS153Z	Spring, Head Base	M59	XTN3+10F	Button, Stop/Eject
M28	RFY280Z	Lever, Eject Slide	M60	RBC624Z	Button, Record
M29	RFB32Z	Main Belt	M61	RBC623Z	Button, Rewind
M30	RFY21Z	Flywheel Ass'y	M62	RBC622Z	



## Specification

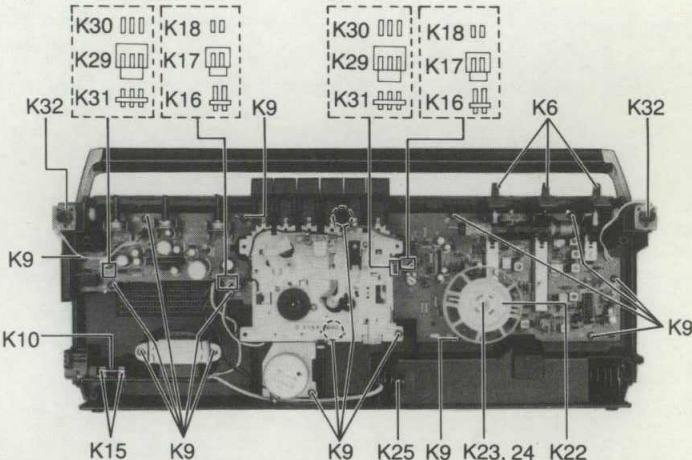
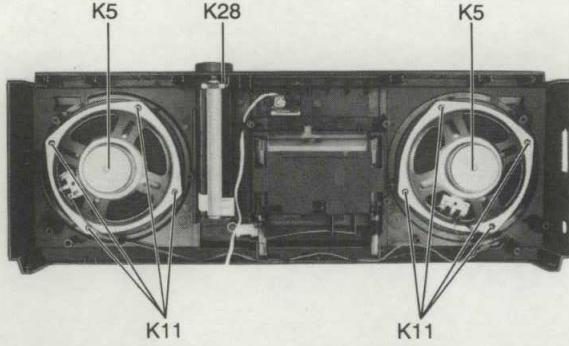
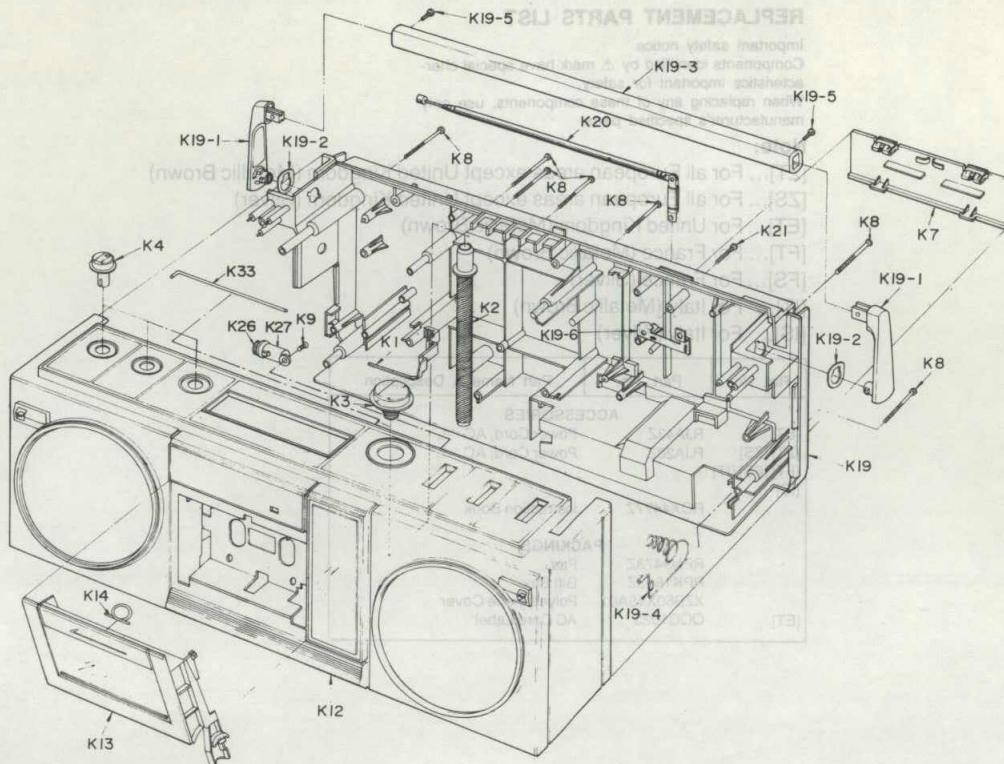
Pressure of pressure roller	330±50 gr
Wow and flutter	Less than 0.35% (WRMS)
Takeup Tension	50±15 gr-cm
FF Tension	70±30 gr-cm
REW Tension	70±30 gr-cm

Ref. No.	SPRING
M62	0.4 mm
M63	0.5 mm
M64	0.4 mm





# CABINET PARTS LOCATION



## REPLACEMENT PARTS LIST

## Note

**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.

[ZT]... For all European areas except United Kingdom (Metallic Brown) [FS]... For France (Silver)  
[ZS]... For all European areas except United Kingdom (Silver) [IT]... For Italy (Metallic Brown)  
[ET]... For United Kingdom (Metallic Brown) [IS]... For Italy (Silver)  
[FT]... For France (Metallic Brown)

Ref. No.	Part. No.	Part Name & Description	Ref. No.	Part. No.	Part Name & Description	Ref. No.	Part. No.	Part Name & Description
<b>CABINET PARTS</b>								
K1 [ZT] [ET]	RDP262Z	Pointer Dial	K10	XBA2C10TR0	Fuse T1A	K19-2	RKX257Z	Washer Handle
[FT] [IT]			K11	XTV3+10G	Screw, Speaker M'tg.	K19-3 [ZT]	RKX311Z	Handle
K1 [ZS] [FS]	RDP262Z1	Pointer Dial	K12 [ZT] [FT]	RYMX4930LZ91	Front Cabinet Ass'y	K19-3 [ZS]	RKX311Z1	Handle
[IS]			K12 [ZS] [FS]	RYMX4930LZK8	Front Cabinet Ass'y	[FS] [IS]		
K2	RDG5807Y	Warm Gear	[IS]			K19-4	RJC931Z	Terminal Battery +/-
K3 [ZT] [ET]	RYTX4930LZKS	Tuning Knob Ass'y	K12 [ET]	RYMX4930LE91	Front Cabinet Ass'y	K19-5	XTB3+8CFN	Screw, Handle M'tg
[FT] [IT]			K13 [ZT] [ET]	RYQX4930LZBR	Cassette Panel Ass'y	K19-6	RJT874Z	Terminal Antenna
K3 [ZS] [FS]	RYTX4930LZK1	Tuning Knob Ass'y	[FT] [IT]					
[IS]								
K4 [ZT] [ET]	RBN670X	Knob, Tone, Valance, Volume	K13 [ZS] [FS]	RYQX4930LZSL	Cassette Panel Ass'y	K20	XEARR225EAY	Telescopic Antenna
[FT] [IT]			[IS]			K21	XYN3+F15F	Screw, Telescopic Antenna M'tg.
K4 [ZS] [FS]	RBN670X1	Knob, Tone, Valance, Volume	K14	RUS577Z	Spring, Cassette Tape	K22	RDG5699Z	Drum Dial
[IS]			K15	QTF1054	Fuse Holder	K23	XSN26+8	Screw, Dial Drum M'tg
K5	RAS12P07Z	Speaker	K16	RJP261Z	Plug, 2 Pin	K24	XWA26B	Washer, Dial Drum M'tg.
K6 [ZT] [ET]	RBS226Z	Knob, Selector, Band, FM Mode	K17	RJS2L1Z	Socket, 2 Pin	K25	RJC511Z	Terminal Battery, -
[FT] [IT]			K18	RJT462Z	Terminal, Socket	K26	RDG5729Z	Soft Gear
K6 [ZS] [FS]	RBS226Z1	Knob, Selector, Band, FM Mode	K19 [FT]	RYFX4930LZFK	Rear Cabinet Ass'y	K27	RME337Z	Holder, Soft Gear
[IS]			K19 [ZT]	RYFX4930LZKS	Rear Cabinet Ass'y	K28	RUL719Z	Bracket, Warm Gear
K7 [ZT] [ET]	RKK224Y	Battery Cover	K19 [ZS]	RYFX4930LZK7	Rear Cabinet Ass'y	K29	RJS3L3Z	Socket, 3 Pin
[FT] [IT]			K19 [FS]	RYFX4930LZFL7	Rear Cabinet Ass'y			
K7 [ZS] [FS]	RKK224Y7	Battery Cover				K30	RJT707Z	Terminal, Socket
[IS]			K19 [ET]	RYFX4930LZEK	Rear Cabinet Ass'y	K31	RJP3G1Z	Plug, 3 Pin
K8	XTN3+35G	Screw, Cabinet M'tg.	K19 [IT]	RYFX4930LZIK	Rear Cabinet Ass'y	K32	RJM151Z	Built-in Microphone
K9	XTV3+12G	Screw, Circuit Board, etc. M'tg.	K19 [IS]	RYFX4930LZ17	Rear Cabinet Ass'y	K33	RUS534Z	Spring, Cassette Panel
			K19-1	RKX248Z	Arm, Handle			

# ACCESSORIES AND PACKING MATERIALS

## REPLACEMENT PARTS LIST

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### Note:

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[ZS]... For all European areas except United Kingdom (Silver)

[ET]... For United Kingdom (Metallic Brown)

[FT]... For France (Metallic Brown)

[FS]... For France (Silver)

[IT]... For Italy (Metallic Brown)

[IS]... For Italy (Silver)

Ref. No.	Part. No.	Part Name & Description
<b>ACCESSORIES</b>		
[ET]	RJA43Z	Power Cord, AC $\Delta$
[ZT] [ZS]	RJA20Z	Power Cord, AC $\Delta$
[FT] [FS] [IT]		
[IS]	RQX4477Z	Instruction Book
<b>PACKINGS</b>		
[ET]	RPN9473Z	Pad
	RPK1843Z	Gift Box
	XZB60X45A01	Polyethylene Cover
	QQC1023	AC Cord Label

