12/1/2014
ORDER NO. GAD85022232C2

Service Manual

RADIO CASSETTE

RX-C41L

(Black)

Portable Stereo Component System

This is the Service Manual for the following areas.

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

E ...For United Kingdom.

RX-C41L MECHANISM SERIES

■ SPECIFICATIONS

General:

Power Requirement:	AC; 220 V 50 Hz (For Z only) 240 V 50 Hz (For E only) Battery; 12 V (Eight "D" Size Flashlight Batteries) (Panasonic UM-1 or equivalent) Car battery; with optional car adaptor RP-952
Power Consumption:	30 W (AC only)
Power Output:	15 W (7.5 W×2)...(max.)
Speaker:	Woofer; 10 cm (4") PM Dynamic Speaker (3Ω) Tweeter; 4 cm Ceramic Speaker (200Ω)
Input:	MIC; sensitivity 0.25 mV/applicable: M3, Ø3.5 microphone impedance 200~600Ω LINE IN; sensitivity 200 mV/47 kΩ over
Output:	LINE OUT; sensitivity 400 mV/4.7 kΩ under EXT SP; 3~8Ω HEADPHONES; 32Ω, M3 (Ø3.5)
Dimensions:	552 mm (W)×176 mm (H)×174 mm (D) Main Unit 315 mm (W)×176 mm (H)×174 mm (D) Speaker Box 118 mm (W)×176 mm (H)×148 mm (D)
Weight:	4.9 kg without batteries

Radio Section:

Radio Frequency Range:	FM; 87.5~108 MHz LW; 150~285 kHz (2000~1053 m) MW; 520~1610 kHz (577~186 m) SW; 5.9~18 MHz (50.8~16.7 m)
Intermediate Frequency:	FM; 10.7 MHz AM; 455 kHz (470 kHz [E])
Sensitivity:	FM; 1.4 µV/m/50 mW output (−3 dB Limit sens) LW; 200 µV/m/50 mW output MW; 89 µV/m/50 mW output SW; 10 µV/50 mW output

Tape Deck Section:

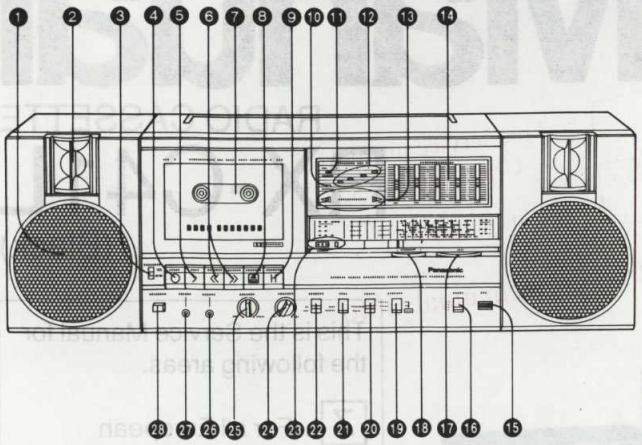
Frequency Response:	60~12,000 Hz (with normal tape) 60~14,000 Hz (with Metal tape)
Recording System:	AC bias, AC erase
Tape Speed:	4.8 cm/s. (1⅞ ips)
Program Timer:	1 hour with C-60 cassette tape
Track System:	4-track 2-channel stereo recording and playback

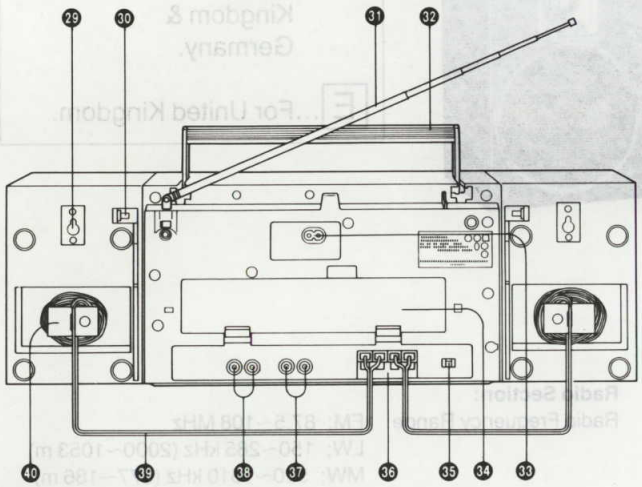
Specifications are subject to change without notice.

Panasonic

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

LOCATION OF CONTROLS AND COMPONENTS





❶ **Speakers (Woofer)**
❷ **Speakers (Tweeter)**
❸ **Reverse Mode Selector (REVERSE MODE)**
❹ **Record Button (○ RECORD)**
❺ **Playback Button (▷ PLAY)**
❻ **Fast/Cue Buttons (◁◁ • ▷▷ FAST/CUE)**
❼ **Cassette Compartment**
❽ **Stop/Eject Button (⏏ STOP/EJECT)**
❾ **Pause Button (❙❙ PAUSE)**
❿ **Opration/Battery Check Indicator (OPR/BATT)**
⓫ **FM Stereo Indicator (FM STEREO)**

⓬ **Level Meter**
The Level Meter lights to indicate the source level in each mode: radio, tape playback and recording, and even when using the unit as an amplifier with external sound sources.
⓭ **Forward and Reverse Indicators (TAPE DIRECTION)**
⓮ **Graphic Equalizer Controls (GRAPHIC EQUALIZER)**
⓯ **Built-in Microphone (MIC)**
⓰ **Band Selector (BAND)**
⓱ **Tuning Control (TUNING)**
⓲ **Fine Tuning Control (FINE TUNING)**
⓳ **Function Selector (SELECTOR)**
⓴ **Mode Selector (MODE)**
㉑ **Tape Selector (TAPE)**
㉒ **※Dolby Noise Reduction Switch (DOLBY NR)**
㉓ **Tape Counter and Reset Button (COUNTER)**
The digits return to "000" when the Reset Button is pressed.The digits advance with the tape to provide a reference to quickly find a desired portion of the tape.
㉔ **Volume Control (VOLUME)**
㉕ **Balance Control (BALANCE)**
㉖ **External Microphone Jack (EXT MIC): M3, ∅3.5 0.25 mV/applicable (200~600Ω)**
㉗ **Headphones Jack (PHONES): M3, ∅3.5**

> When using the headphones, avoid listening to sound for a long period of time at excessive volume levels, which may injure your ears.

㉘ **Direction Button (◁▷DIRECTION)**
㉙ **Speaker Wall Mounts**
㉚ **Speaker Release Levers (RELEASE)**
㉛ **Telescopic Antenna**
㉜ **Handle**
㉝ **AC Socket (AC IN~)**
㉞ **Battery Compartment**
㉟ **Beat Proof Switch (BEAT PROOF)**
㊱ **Speaker Terminals (SPEAKER IMP 3–8Ω)**
㊲ **Line Output Jacks (LINE OUT) 400 mV/4.7 kΩ under**
㊳ **Line Input Jacks (LINE IN) 200 mV/47 kΩ over**
㊴ **Speaker Cables**
㊵ **Speaker Cable Compartments**

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

IMPORTANT (FOR U.K.)
The wires in this mains lead are coloured in accordance with the following code:
Blue: Neutral Brown: Live
As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
- The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
- The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Notes:
- Disconnect the mains plug from the supply socket when not in use.
- Do not remove cover. Live parts inside.

DISASSEMBLY INSTRUCTIONS

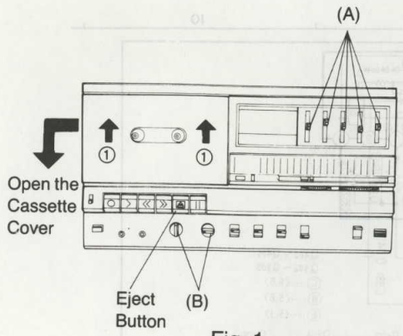


Fig. 1

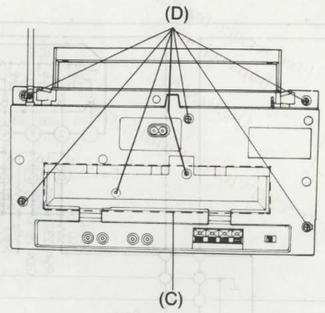


Fig. 2

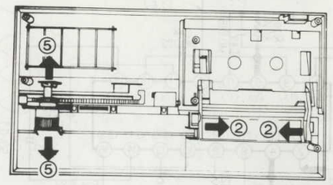


Fig. 3

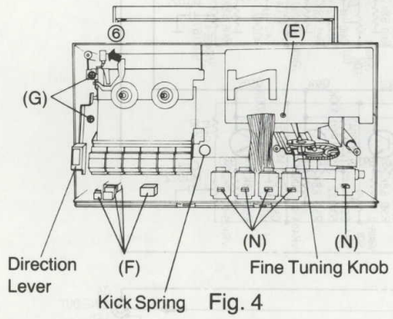


Fig. 4

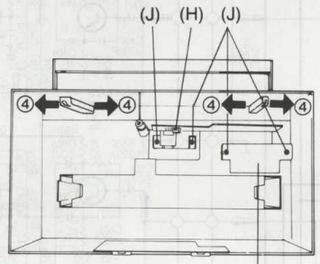


Fig. 5

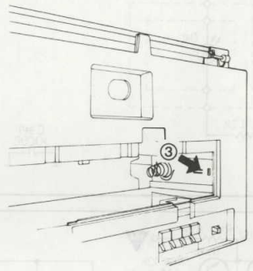


Fig. 6

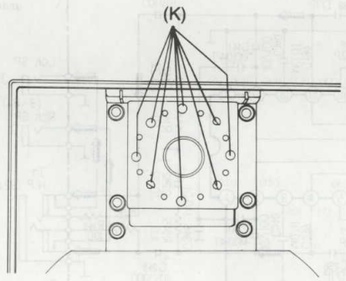


Fig. 7

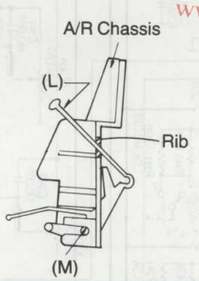


Fig. 8

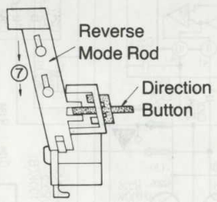


Fig. 9

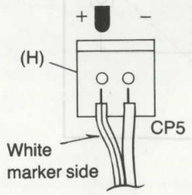


Fig. 10

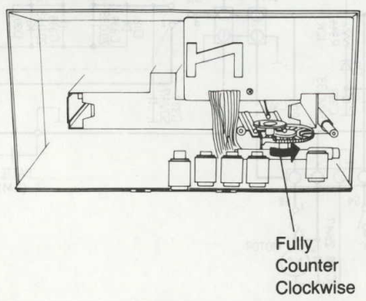


Fig. 11

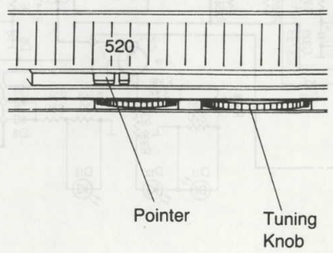


Fig. 12

Ref. No.	Shown in Fig.—.	To remove —.	Remove —.
1	1	Front Cabinet Ass'y	Push the eject button.
2			G.EQ. Knob ..... (A)×5
3			Knob ..... (B)×2
4	2		Battery Cover ..... (C)
5			Screw (3×45) mm ..... (D)×7
6	1	Cassette Holder	Push the Cassette cover in the direction of the arrow ①.
7	3		Push the Cassette holder in the direction of the arrows ②.
8	4	Equalizer P.C.B	Screw (3×12) mm ..... (E)×1
9	4	Mechanism ＊1, 2, 3	Connector ..... (F)×4
10			Screw (3×12) mm ..... (G)×2
11			Remove the direction lever, counter and counter belt.
12	5	Main P.C.B	Connector ..... (H)×1＊4
13	4		Pull out the fine tuning knob.
14	5		Pull out the circuit board.
15	6	Battery Terminal	Push the catch in the direction of the arrow ③.
16	5	Power P.C.B	Screw (3×12) mm ..... (J)×4
17			Shield cover ..... (I)
18	5	Handle	Push the cabinet in the direction of the arrows ④.
19	3	Tunig Knob ＊4	Push the cabinet in the direction of the arrows ⑤.
20	7	Tweeter ＊4	Cut the tip of boss. ..... (K)×8＊5

＊1 Before installing the mechanism components, shift the R/P lever in the direction indicated by arrow ⑥.

＊2 Installing the Direction Lever

1. First install parts (L) and (M) of the direction lever on the A/R (Auto/Reverse) chassis as shown in Fig. 8. Then fit part (L) between the ribs of the A/R chassis.
2. Install the reverse mode rod on the A/R chassis as shown in Fig. 9.
3. Slide the reverse mode rod in the direction indicated by the arrows ⑦.
4. Install the direction button on the A/R chassis by inserting its tabs as shown in Fig. 9.

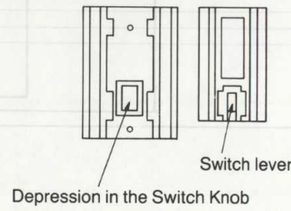
＊3 Push the top of the connector down when connecting or disconnecting the jumper. After connecting the jumper, be sure to raise the connector top and make sure the jumper is firmly secured.
Make sure polarity is properly aligned when installing the jumpers. (Refer to Fig. 10)

＊4 When assemble the front cabinet, turn the dial drum to fully clockwise and set the dial pointer at the position as shown in Fig. 11 and 12.

＊5 When replacing the tweeter, attach the tweeter to the speaker cabinet by welding it to the remainder of the boss.

HOW TO INSERT THE SWITCH KNOB

■ Insert the switch knob (N) so that the switch lever and the depression in the switch knob match. (Refer to Fig. 4.)



▼Be sure to fold at the (▼) mark so that mark is on the outside.

SCHEMATIC DIAGRAM FOR MODEL RX-C41L

Notes:

1. S1-1~S1-8: Band select switch in "FM" position. (1...FM, 2...LW, 3...MW, 4...SW)
2. S2-1, S2-2: Mode seslect switch in "STEREO" position. (1...STEREO, 2...MONO)
3. S3-1~S3-6: Function switch in "TAPE" position. (1...LINE, 2...RADIO, 3...TAPE)
4. S4-1~S4-5: Tape select switch in "NORMAL" position. (1...NORMAL, 2...CrO_2)
5. S5: Dolby NR switch in "OUT" position.
6. S6-1, S6-2: REC/PLAY switch in "PLAY" position. (1...PLAY, 3...RECORD)
7. S7: Beat Proof switch in "I" position. (1...I, 2...II, 3...III)
8. S8: Motor switch.
9. S9: Playback switch.
10. S10: CUE/REV switch.
11. S11-1~S11-3: FWD/REVERSE switch in "FWD" position.
12. S12: AC/DC switch in "DC" position. (1...AC, 2...DC)
13. VR101, VR201: Playback level adjustment VR.
14. VR102, VR202: Overall gain adjustment VR.
15. VR301: FM MPX adjustment VR.
16. VR302: Rec bias current voltage adjustment VR.
17. VR303: Balance control VR.
18. VR304: Volume control VR.
19. VR 401~VR405, VR501~505: Graphic EQ. VR
20. DC voltage measurements are taken with electronics voltmeter from negative terminal of battery.
    < >...FM, ( )...AM, [ ]...Record
    No mark... Playback
21. Battery Current: No signal (radio) 160 mA
    Maximum output (radio) 1125 mA
    (tape playback) 1545 mA
    (tape recording) 260 mA
22. 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.

+B Voltage Line

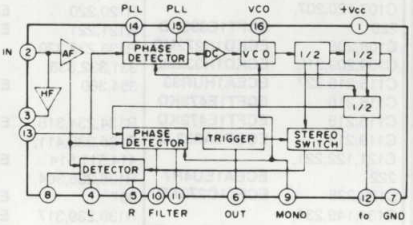
Radio (FM) Signal Line

TAPE (PLAYBACK) Signal Line

TAPE (RECORD) Signal Line

Line, RADIO, PLAYBACK and RECORD Signal Line

IC3 RVIBA1332L



Ref No.	Zone	Part No.	Function Name
IC1	A•2	RVITA7358P	FM RM AMP/MIX/OSC
IC2	A•4	AN7220A	FM IF/DET, AM MIX/OSC/IF/AMP
IC3	A•6	RVIBA1332L	FM MPX
IC4	D•3	RVIBA328	EQ. AMP
IC5	D•5	RVILM1131C	Dolby AMP
IC6	A•9	AN6884	LED Drive
IC7	D•9	LA4108R	Power AMP
Q1	A•3	2SC829BTA (2SC829-B)	IF AMP
Q2	E•2	2SC1740RTA (2SC1740R)	Switching (REC: ON)
Q3	E•3	2SC1740RTA (2SC1740R)	Switching (Play: ON)
Q4	F•2	2SC1740LNSTA (2SC1740LNS)	Mic Amp
Q5	F•2	2SC1740LNSTA (2SC1740LNS)	Mic Amp
Q6	F•3	2SC1740RTA (2SC1740R)	Muting (Play: ON)
Q7	D•4	2SC1740RTA (2SC1740R)	AGC
Q8	E•5	2SC1740RTA (2SC1740R)	Switching (Play: ON)
Q9	F•5	2SC2001K1TA (2SC2001X1)	Switching (Bias OSC)
Q10	F•5	2SC1740RTA (2SC1740R)	Switching (Play: ON)
Q11	F•6	2SA564RTA (2SA722-S)	Muting (Power ON, Switching)
Q12	F•6	2SC1740RTA (2SC1740R)	Muting (Switching,Recordingmode)
Q13	F•7	2SD439F	Regurator
Q14	F•7	2SA564RTA (2SA772-S)	Switching (REV: ON)
Q101	C•3	2SC1740RTA (2SC1740R)	Switching (REC: ON)
Q103	D•4	2SC1740RTA (2SC1740R)	AGC
Q104	D•4	2SC1740STA (2SC1740S)	AMP
Q105	C•6	2SC1740RTA (2SC1740S)	Switching (Play: ON)
Q106	D•7	2SC1740RTA (2SC1740R)	Muting (CUE/REVIEW: ON)
Q107	C•6	2SC1740RTA (2SC1740R)	Switching (Rec: ON)
Q108	E•7	2SC1740RTA (2SC1740R)	Muting (Play: ON)
Q109	E•7	2SC1740STA (2SC1740R)	EQ. AMP
Q201	E•3	2SC1740RTA (2SC1740R)	Switching (REC: ON)
Q202	E•3	2SA564RTA (2SA722-S)	Switching (REC: ON)
Q203	D•4	2SC1740RTA (2SC1740R)	AGC
Q204	E•4	2SC1740STA (2SC1740S)	AMP
Q205	E•6	2SC1740RTA (2SC1740S)	Switching (Play: ON)
Q206	E•6	2SC1740RTA (2SC1740R)	Switching (Rec: ON)
Q207	D•7	2SC1740RTA (2SC1740R)	Muting (CUE/REVIEW: ON)
Q208	E•7	2SC1740RTA (2SC1740R)	Muting (Play: ON)
Q209	E•7	2SC1740STA (2SC1740S)	EQ. AMP
Q401	B•8	2SC1740LNSTA (2SC1740LNS)	AMP
Q402	B•9	2SC1740LNSTA (2SC1740LNS)	B.P.F.
Q403	B•9	2SC1740LNSTA (2SC1740LNS)	B.P.F.
Q404	B•9	2SC1740LNSTA (2SC1740LNS)	B.P.F.
Q405	B•10	2SC1740LNSTA (2SC1740LNS)	B.P.F.
Q501	C•8	2SC1740LNSTA (2SC1740LNS)	AMP
Q502	C•9	2SC1740LNSTA (2SC1740LNS)	B.P.F.
Q503	C•9	2SC1740LNSTA (2SC1740LNS)	B.P.F.
Q504	C•9	2SC1740LNSTA (2SC1740LNS)	B.P.F.
Q505	C•10	2SC1740LNSTA (2SC1740LNS)	B.P.F.
D1	A•3	RVD1SS133TA (RVD1SS133)	AGC
D3	F•6	RVD1SS133TA (RVD1SS133)	Switching
D5	F•7	MA1051FV (MA1051)	STABI.
D6	F•7	RVDMTZ10BTA (RVDMTZ10B)	STABI.
D7	F•7	RVD1SS133TA (RVD1SS133)	Switching
D8	F•7	RVD1SS133TA (RVD1SS133)	Switching
D9	F•8	RVD1SS133TA (RVD1SS133)	Switching
D10	B•6	LN082252PH	LED (FM ST. IND.)
D11	G•6	LN082252PH	LED (FWD IND.)
D12	G•7	LN082252PH	LED (REV IND.)
D13	G•7	LN082252PH	LED (OPR/BATT IND.)
D14	A•9	LN082252PH	LED (Level IND.)
D15	A•9	LN082252PH	LED (Level IND.)
D16	A•9	LN082252PH	LED (Level IND.)
D17	A•9	LN082252PH	LED (Level IND.)
D18	F•9	RVD1SR35TR (RVD1SR35)	Rectifier (AGC)
D19	F•9	RVD1SR35TR (RVD1SR35)	Rectifier (AGC)
D20	F•9	RVD1SR35TR (RVD1SR35)	Rectifier (AGC)
D21	F•9	RVD1SR35TR (RVD1SR35)	Rectifier (AGC)
D22	F•6	RVD1SS133TA (RVD1SS133)	Switching
D23	B•5	MA175WKTA (MA175WK)	AND GATE
D24	D•5	MA175WATA (MA175WA)	Switching
D25	E•5	MA175WATA (MA175WA)	Rectifier
D26	E•5	MA175WKTA (MA175WK)	Rectifier

( )...Supply Parts Number

ELECTRICAL PARTS LIST

Numbering System of Resistor

Example

ERD	25	F	J	101
Type	Wattage	Shape	Tolerance	Value (100Ω)
ERX	2	AN	J	2R2
Type	Wattage	Shape	Tolerance	Value (2.2Ω)

Resistor Type	Wattage Tolerance
ERD: Carbon	10 : 1/8 W J : ±5%
ERD: 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

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 µF)	

Capacitor Type	Voltage		Tolerance
	ECEA Type	Other	
ECEA: Electrolytic	OJ : 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: Polyyester	1E : 25 V		Z : +80%, −20%
	1H : 50 V		
ECQP: Polyproylene	1V : 35 V		P : +100%, −0%
	50 : 50 V		
ECET: Electrolytic			
ECEA□□□N: Non Polar Electrolytic	25 : 25 V		
	16 : 16 V		
QCU □: Ceramic (Chip Type)			
ECUX: Ceramic (Chip Type)			

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.

Ref. No.	Part. No.	Part Name & Description
		INTEGRATED CIRCUITS
IC1	RViTA7358P	IC
IC2	AN7220A	IC
IC3	RViBA1332L	IC
IC4	RViBA328	IC
IC5	RViLM1131C	IC
IC6	AN6884	IC
IC7	LA4108R	IC
		TRANSISTORS
Q1	2SC829-B	Transistor (Si)
Q2,3,6,7,8,10,12,101,103,105,106,107,108,201,203,205,206,207,208	2SC1740R	Transistor (Si)
Q4,5,401,402,403,404,405,501,502,503,504,505	2SC1740LNS	Transistor (Si)
Q9	2SC2001K1	Transistor (Si)
Q11,14,202	2SA722-S	Transistor (Si)
Q13	2SD439F	Transistor (Si)
Q104,109,204,209	2SC1740S	Transistor (Si)
		DIODES & RECTIFIERS
D1,3,7,8,9,22	RVD1SS133	Diode (Si)
D5	MA1051	Diode (Si)
D6	RVDMTZ10B	Diode (Si)
D10,11,12,13,14,15,16,17	LN082252PH	LED (ALL in one type)
D18,19,20,21	RVD1SR35	Diode (Si)
D23,26	MA175WK	Diode (Si)
D24,25	MA175WA	Diode (Si)
		COILS
L1	RLD4Y44	Coil (FM Antenna)
L2	RLD4Y53	Coil (FM OSC)
L3	RLF6W9	Coil (LW Antenna)
L4	RL01B12	Coil (LW OSC)
L5	RL02B108	Coil (MW OSC)
L6	RL03B87	Coil (SW OSC)
L7	RLA3B41	Coil (SW Antenna)
L8	RL0Y30S4	Coil
L101,201	RLE5031	Coil
L102,202	RLQZD822J	Coil
L301	RL08R2	Coil (Rec Bias)
L302	RL0ZB101K	Coil
L303	RLQZB470K	Coil

Ref. No.	Part. No.	Part Name & Description
		TRANSFORMERS
T1,2	RLi4B153	Transformer (FM IF)
T301 Z	RLT5L4G3A	Power Transformer ⚠
T301 E	RLT5L4A3A	Power Transformer ⚠
		VARIABLE CAPACITORS
VC1~4	RCV4RC2RA	Variabie Capacitor (CT1, 2, 5, 6)
VC5	RCVMH60C6	Variable Capacitor (Fine Tuning)
		TRIMMER CONDENSER
CT3,4	RCVTZ30F	Trimmer Capacitor (LW ANT, OSC)
CT7	RCVTZ11F	Trimmer Capacitor (SW OSC)
		VARIABLE RESISTORS
VR101,201,301,302	EVND4AA00B14	Variable Resistor (10 kΩ (B))
VR102,202	EVND4AA00B15	Variable Resistor (100 kΩ (B))
VR303	EWH0NAF20G54	Variable Resistor (50 kΩ (G))
VR304	EWCUNA016A54	Variable Resistor (50 kΩ (A))
VR401,402,403,404,405	EWASA2C95G54	Variable Resistor (50 kΩ (G))
		CERAMIC FILTERS
CF1	RVF107WMZ	Ceramic Filter
CF2 Z	RVFSFZ455B	Ceramic Filter
CF2 E	RVFSFZ470B	Ceramic Filter
		THERMISTOR
TH1	RRT202	Thermistor
		FILTER
Z1	RXABPMB6A	B.P.F.
		SWITCHES
S1	RSS4H02Z	Switch (Band Select)
S2,5	RSS2B37Z	Switch (Mode Select, Dolby NR)
S3	RSS3F08Z	Switch (Function Select)
S4	RSS2F06Z	Switch (Tape Select)
S6	ESB6487	Switch (Rec/Play)
S7	RSS3A06Z	Switch (Beat Proof)
		FUSES
F1	XBA2C03SS0	Fuse ⚠
F2	XBA2C16TR0	Fuse ⚠
		JACKS
J1 Z	RJJA6Z	Jack (AC In ⚠)
J1 E	RJJA7Z	Jack (AC In ⚠)
J2,4	RJF1094Y	Jack (Line In, Line Out)
J3,5	RJF1094Z	Jack (Line In, Line Out)
J6	RJJ1D25Z	Jack (EXT MIC)
J7	RJJ1D27Z	Jack (Headphones)
J8	QJT1104	Terminal (Speaker)

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

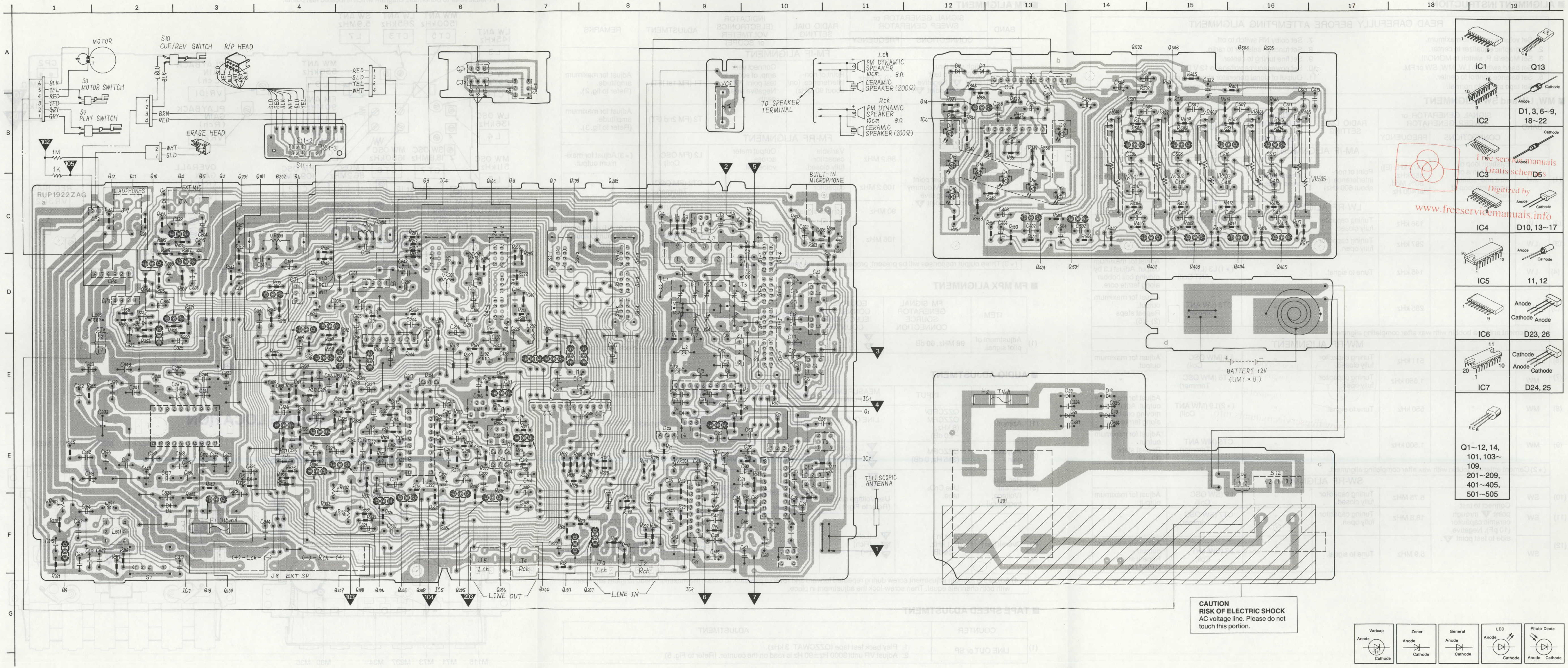
E...For United Kingdom

Ref. No.	Part. No.	Ref. No.	Part. No.
	CAPACITORS	C14,22,24,35,49,52,139,239,346	ECFT1E103MD
C1	ECCD1H120K	C15	ECCD1H180KC
C2,3,19	ECCD1H150KC	C16	ECQP2A221JZ
C4	ECCD1H560KC	C17	ECQP2A151JZ
C5,21,138,238	ECCD1H070DC	C18	ECQP2A361JZ
C6,9,51	ECKD1H102KB	C20	ECQP2A392JZ
C7	ECCD1H120KC	C23	ECKD1H103ZF
C8	ECCD1H050CC	C25,38,133,135,235,324,339	ECEA0JU101
C10	ECCD1H180JC	C27,39,48,344,345	ECCD1H331K
C11	ECCD1H390KC		
C12,26,36	ECCD1H470KC		
C13,349	ECKD1H103MD		

Ref. No.	Part. No.
C28,29,31,44,130,230,315,325,413,513	ECFT1E223MD
C30,113,117,127,213,217,227,303,319,320,321,330,404,504	ECEA1CU100
C34,34	ECFT1C683MD
C37,53,111123,129,136,211,223,229,236,341,343,347,402,502	ECCD1H101K
C40	ECEA1HN010S
C41,140,240,307,308,314	ECEA1AU101
C42,43,407,507	ECFT1E153MD
C45,102,110,125,126,132,145,202,210,225,226,232,245,304,305,306,322,401,403,406,501,503,506	ECEA1HU010
C46,309	ECQP2A102JZ
C47,114,124,144,214,224,244,301	ECEA1HU0R1
C50	ECKT1H102KB
C101,201	ECCDS1H221K
C103,106,112,147,148,203,206,212,247,248	ECEA1EU3R3
C104,204,342	ECKD1H471KB
C105,205	ECEA0JU470
C107,120,207,220	ECFT1E333KD
C108,208	ECKD1H272MD
C109,209,312	ECKD1H332MD
C115,215,327	ECEA1HUR33
C116,216	ECFT1E473KD
C118,218	ECFT1E472KD
C119,219	ECQP2A332JZ
C121,122,221,222	ECEA1EU4R7
C128,228	ECFT1C273KD
C134,149,234,249	ECKD1H102MD
C137,237	ECCD1H220KC
C141,241,331,405,412,505,512	ECFT1E473MD
C142,242	ECQV1H224JZ
C143,243	ECEA1AU102
C146,246,313	ECFT1E333MD
C233	ECEA1EU101
C302,410,510	ECEA1HUR22
C308,316,332	ECEAIAU221
C310	ECQP2A222JZ
C311	ECQP2A103JZ
C317,326	ECEA1AU471
C318	ECEA0JU221

Ref. No.	Part. No.
C323,340	ECEA0JU330
C328	ECEA1EF470
C329	ECEA1EU100
C333	ECEA1EU222
C334,336,337,355	ECKD1H333ZF
C338	ECKD1H102ZF
C408,508	ECEA1HUR47
C409,509	ECKD1H472MD
C411,511	ECKD1H152MD
	RESISTORS
R1,16	ERDS2TJ330
R2,3,4,17,26,103,146,203,246,301,313,401,501	ERDS2TJ101
R5,10,342	ERDS2TJ560
R6,122,222,336	ERDS2TJ332
R7	ERDS2TJ334
R8,11,314,340	ERDS2TJ221
R9,25,119,219	ERDS2TJ122
R12,302	ERDS2TJ681
R13,101,123,127,129,201,223,227,229,356	ERDS2TJ473
R14,108,128,131,208,228,231,303,310,314,353,355	ERDS2TJ222
R15,132,232	ERDS2TJ822
R18	ERD25TJ100
R19,20,324,404,504	ERDS2TJ392
R21,105,124,137,140,205,224,237,240,305,308,311,312,315,323,328,330,352,359,403,503	ERDS2TJ472
R22,138,238,337,339	ERDS2TJ821
R24,106,130,206,230,319,322,407,410,413,416,507,510,513,516	ERDS2TJ682
R102,117,202,217	ERDS2TJ272
R104,204	ERDS2TJ823
R107,111,112,125,126,207,209,211,212,225,226,325,327,334,351,357,358	ERDS2TJ103
R110,210,329	ERDS2TJ153
R113,213,344	ERDS2TJ123
R114,214	ERDS2TJ183
R116,216	ERDS2TJ474
R118,218,306,309,345,347,348,349,350,412,415,512,515	ERDS2TJ331
R120,220	ERDS2TJ683
R121,221	ERDS2TJ274
R133,233,320,331,332,338,354,360	ERDS2TJ102
R134,234,316	ERDS2TJ333
R135,235,411,414,511,514	ERDS2TJ104
R136,236,304,307	ERDS2TJ684
R139,239,317	ERDS2TJ680
R141,241	ERDS2TJ152
R145,245	ERDS2TJ1R0
R318	ERD25FJ101
R321	ERDS2TJ4R7
R326	ERD25TJ106
R335	ERD25FJ151
R341	ERD25FJ681
R343	ERD25FJ561
R346	ERG2ANJP101S
R402,502	ERD25TJ224
R405,408,505,508	ERDS2TJ124
R406,409,506,509	ERDS2TJ391
R417,517	ERDS2TJ471

CIRCUIT BOARDS AND WIRING CONNECTION DIAGRAM FOR MODEL RX-C41L



MOTOR
S10 CUE/REV SWITCH
R/P HEAD
S8 MOTOR SWITCH
S9 PLAY SWITCH
ERASE HEAD
HEADPHONES
EXT MIC
BUILT-IN MICROPHONE
TO SPEAKER TERMINAL
Lch PM DYNAMIC SPEAKER 10cm 3Ω
CERAMIC SPEAKER (200Ω)
Rch PM DYNAMIC SPEAKER 10cm 3Ω
CERAMIC SPEAKER (200Ω)
TELESCOPIC ANTENNA
J8 EXT SP
LINE OUT
LINE IN
BATTERY 12V (UM1 × 8)
T301
CAUTION
RISK OF ELECTRIC SHOCK
AC voltage line. Please do not touch this portion.
IC1
Q13
IC2
D1, 3, 6~9, 18~22
IC3
D5
IC4
D10, 13~17
IC5
11, 12
IC6
D23, 26
IC7
D24, 25
Q1~12, 14, 101, 103~109, 201~209, 401~405, 501~505
Varicap
Zener
General
LED
Photo Diode
Anode
Cathode

MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Set volume control to maximum.
2. Set graphic equalizer to center.
3. Set Mode/B.P. switch to MONO/II.
4. Set band switch to LW, MW, SW or FM.
5. Set balance control to center.
6. Set tape switch to normal.
7. Set dolby NR switch to off.
8. Set function selector to radio.
9. Set fine tuning to center.
10. Set power source voltage to 12 V DC.
11. Output of signal generator should be no higher than necessary to obtain an output reading.

■ MW, LW and SW 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.	(470 kHz [E]) 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.	〃	L4 (LW OSC Coil)	〃
(3)	LW	〃	297 kHz	Tuning capacitor fully open.	〃	CT4 (LW OSC Trimmer)	〃
(4)	LW	〃	145 kHz	Tune to signal.	〃	(＊1) L3 (LW ANT Coil)	Adjust for maximum output. Adjust L3 by moving coil bobbin along ferrite core.
(5)	LW	〃	285 kHz	〃	〃	CT3 (LW ANT Trimmer)	Adjust for maximum output. Repeat steps (2)~(5).
	(＊1) Cement antenna bobbin with wax after completing alignment.						
			MW-RF ALIGNMENT				
(6)	MW	〃	511 kHz	Tuning capacitor fully closed.	〃	L5 (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.	〃	(＊2) L9 (MW ANT Coil)	Adjust for maximum output. Adjust L9 by moving coil bobbin along ferrite core.
(9)	MW	〃	1,500 kHz	〃	〃	CT5 (MW ANT Trimmer)	Adjust for maximum output. Repeat steps (6)~(9).
	(＊2) Cement antenna bobbin with wax after completing alignment.						
			SW-RF ALIGNMENT				
(10)	SW	Connect to test point ▼ through ceramic capacitor (10 pF). Negative side to test point ▼.	5.75 MHz	Tuning capacitor fully closed.	〃	L6 (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 CONNECTIONS	SIGNAL GENERATOR or SWEEP GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
				FM-IF ALIGNMENT			
(1)	FM	High side thru. 0.001 μF 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 earth.	T1 (FM 1st IFT)	Adjust for maximum amplitude. (Refer to fig. 2).
(2)	FM	〃	〃	〃	〃	T2 (FM 2nd IFT)	Adjust for maximum amplitude. (Refer to fig. 3).
				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.	L2 (FM OSC Coil)	(＊3) Adjust for maximum output.
(4)	FM		109.2 MHz	Variable capacitor fully open.	〃	CT2 (FM OSC Trimmer)	〃
(5)	FM		90 MHz	Tune to signal.	〃	L1 (FM ANT Coil)	〃
(6)	FM		106 MHz	〃	〃	CT1 (FM ANT Trimmer)	(＊3) Adjust for maximum output. Repeat steps (3)~(6).
	(＊3) Three output responses will be present; proper tuning is the center frequency.						

■ FM MPX ALIGNMENT

	ITEM	FM SIGNAL GENERATOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
(1)	Adjustment of pilot signal.	98 MHz, 60 dB	▼… (+) ▼… (−)	VR301	19 kHz	Adjust VR1, for 19 kHz (±100 Hz) reading on electronics counter.

■ AUDIO ADJUSTMENT

	ITEM	INPUT	MEASUREMENT POINT	SPECIFICATION	ADJUSTMENT POINT	REMARKS
(1)	Azimuth	QZZCRD/ QZZCFM (8 kHz, −20 dB)	LINE OUT or SP	Maximum (＊4) output	Azimuth screw (Refer to Fig. 4.)	Playback (FWD, REV) mode
(2)	Playback gain	QZZCFM (315 Hz, 0 dB)	▼… (Lch) ▼… (Rch) ▼… (−)	420±40 mV	VR101 (Lch) VR201 (Rch)	Playback (FWD, REV) mode
(3)	Rec bias current (Voltage, frequency)	Use CrO_2 tape.	▼… (+) ▼… (−) Use Voltage divider. (Refer to Fig. 1)	CrO_2… 21.0±0.5 mV (64.0±0.5 kHz) Normal… 16.5±1 mV	VR302 (L301)	Record mode Tape selector… CrO_2—Normal Beat proof…1
(4)	Overall gain	Line In f=1 kHz, −24 dB	▼…(Lch) ▼…(Rch) ▼…(−)	0±1 dB	VR102 (Lch) VR202 (Rch)	1. Record the prescribed input signal and read the output level. 2. Using the output level in (1) as the 0 dB level, adjust it so that the output during playback is 0±1 dB.
	(＊4) Adjust the azimuth adjustment screw during repeated forward and reverse playback to obtain the maximum head azimuth alignment with both channels equal. Then screw-lock the adjustment in place.					

■ TAPE SPEED ADJUSTMENT

	COUNTER	ADJUSTMENT
(1)	LINE OUT or SP	1. Play back test tape (QZZCWAT, 3 kHz). 2. Adjust VR until 3000 Hz±90 Hz is read on the counter. (Refer to Fig. 5)

■ ALIGNMENT POINT

＊Please refer to Schematic Diagram which is located test points.

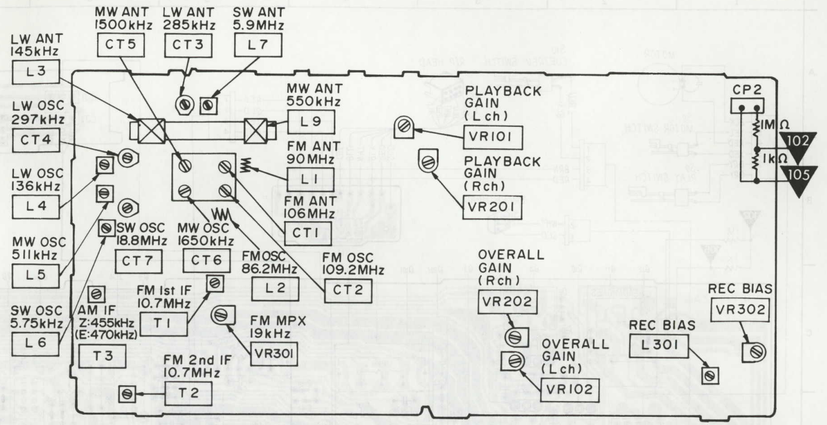


Fig. 1

Fig. 2

Fig. 3

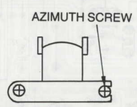
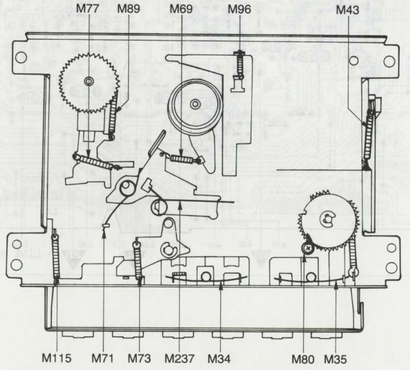
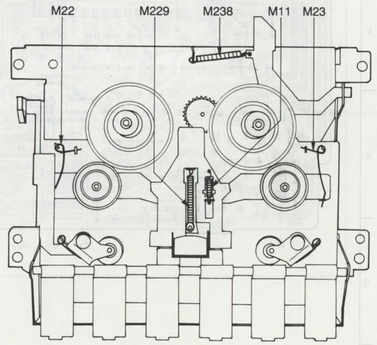


Fig. 4

Fig. 5

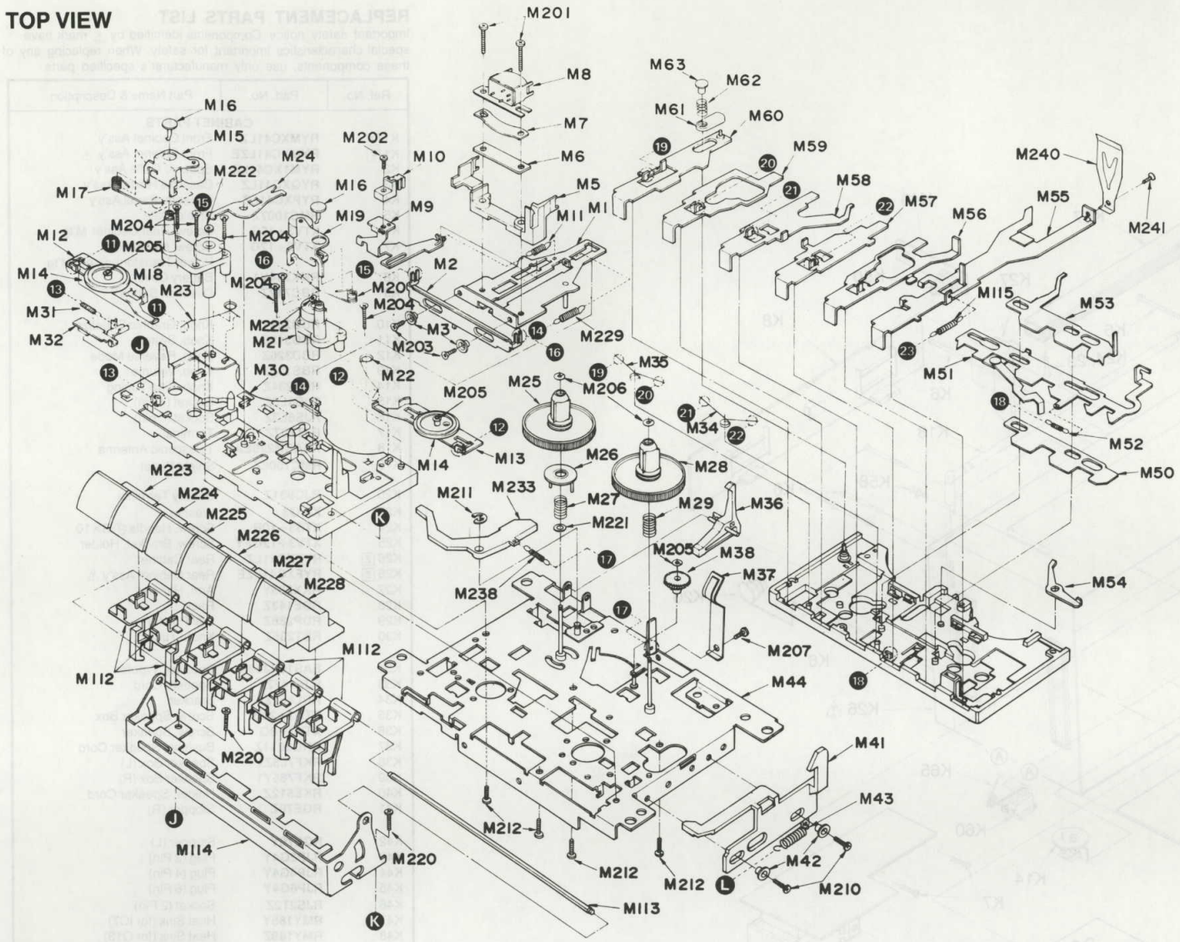
SPRING LOCATION





MECHANISM PARTS LOCATION

TOP VIEW

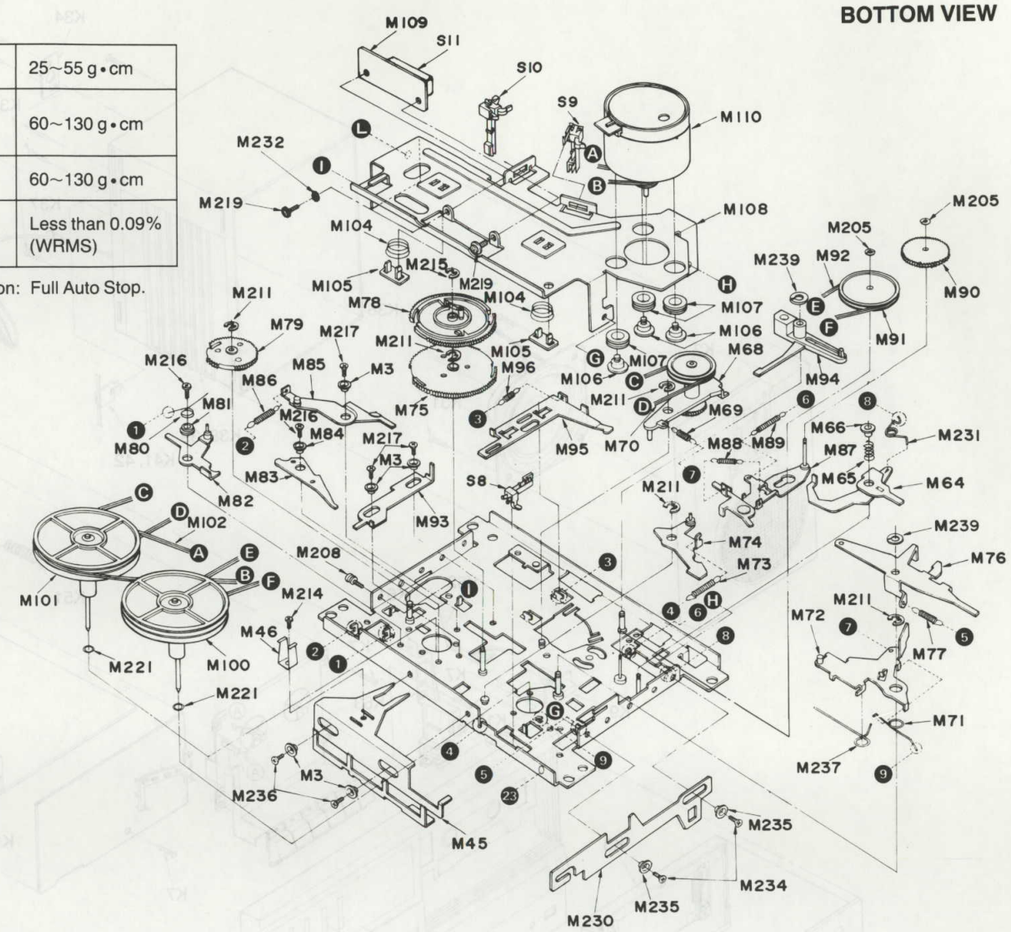


Specification

Playback torque	25~55 g • cm
Fast Forward torque	60~130 g • cm
Rewind torque	60~130 g • cm
Wow and flutter	Less than 0.09% (WRMS)

Mechanism Operation: Full Auto Stop.

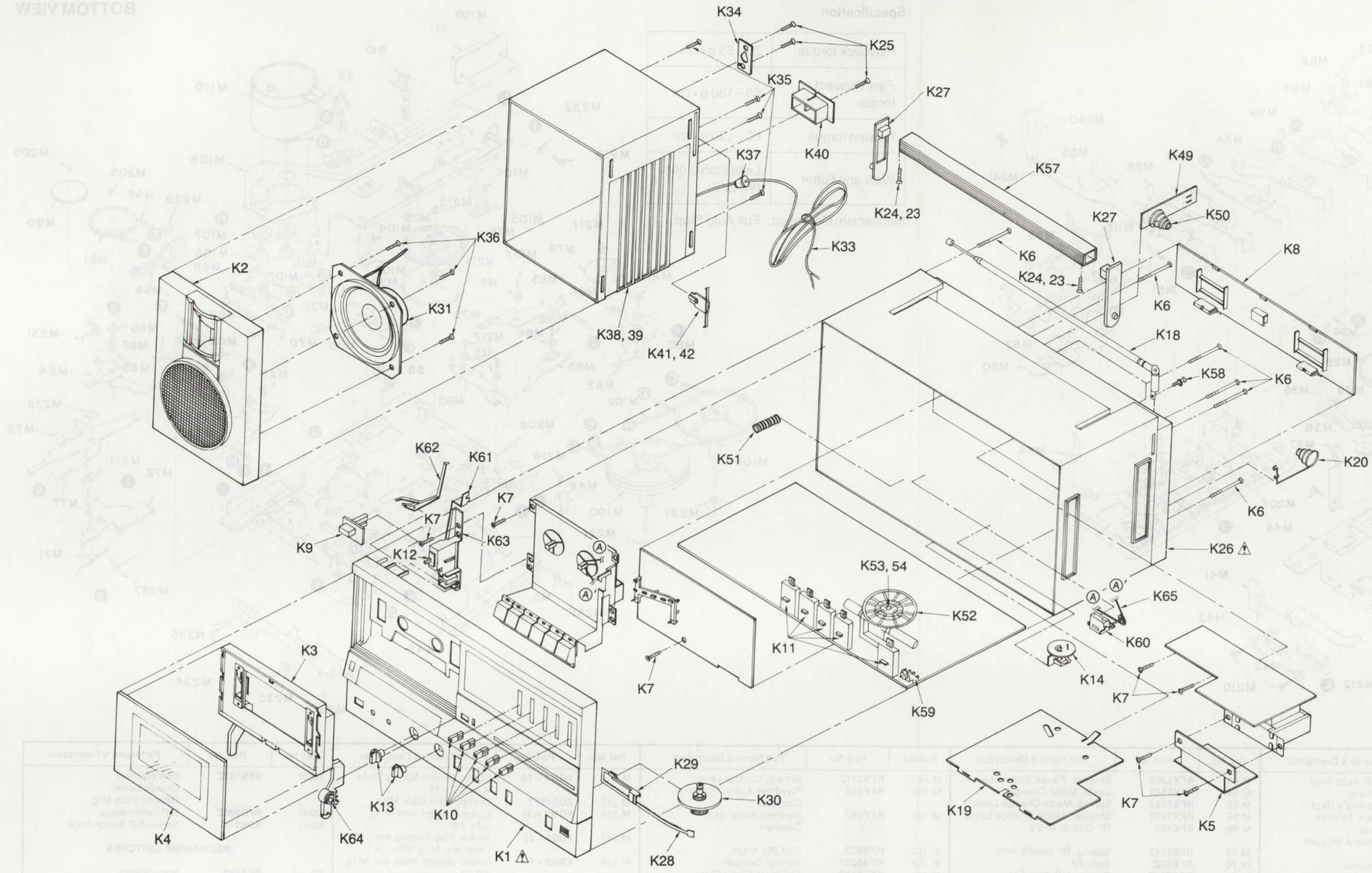
BOTTOM VIEW

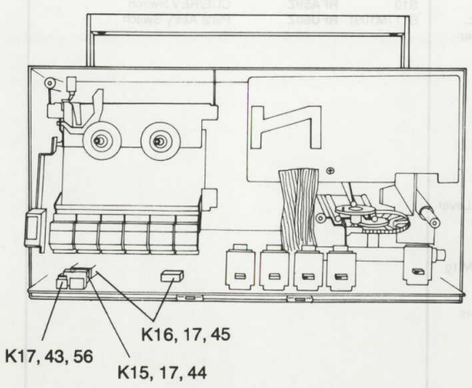


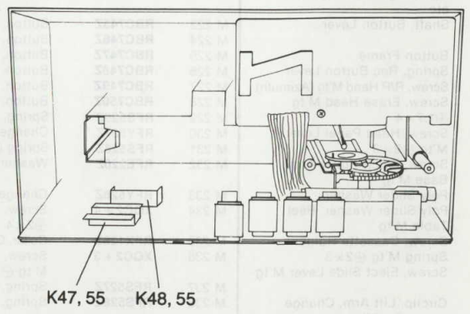
MECHANISM PARTS LIST

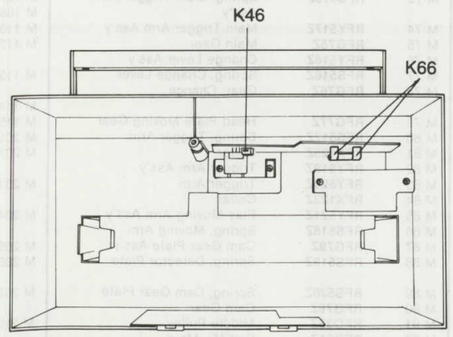
Ref. No.	Part. No.	Part Name & Description
		MECHANICAL PARTS
M 1	RFU56Z	Head Panel
M 2	RFY500Z	Lever, Head Panel
M 3	RFX117Z	Collar
M 5	RFU57Z	Head Base
M 6	RFE207Z	Head Plate
M 7	RFS498Z	Spring Plate, Head
M 8	RJH4C06GZ	R/P Head
M 9	RFY501Z	Plate, Erase Head
M 10	RJH2C05YZ	Erase Head
M 11	RFS499Z	Spring, Erase Head Plate
M 12	RFD203Z	Trigger Roller Plate Ass'y (Left)
M 13	RFD204Z	Trigger Roller Plate Ass'y (Right)
M 14	RFK15Z	Trigger Roller Ass'y
M 15	RFR27Z	Pinch Roller Arm Ass'y (Left)
M 16	RFX118Z	Stopper, Pinch Roller Arm
M 17	RFS500Z	Spring, Pinch Roller Arm (Left)
M 18	RFE208Z	Pinch Roller Arm Base (Left)
M 19	RFR28Z	Pinch Roller Arm Ass'y (Right)
M 20	RFS501Z	Spring, Pinch Roller Arm (Right)
M 21	RFE209Z	Pinch Roller Arm Base (Right)
M 22	RFS502Z	Spring, Trigger Roller (Left)
M 23	RFS503Z	Spring, Trigger Roller (Right)
M 24	RFY502Z	Lever, Head Base Control
M 25	RFJ48Z	Reel Table Ass'y (Left)
M 26	RFE210Z	Full Auto Stop Detector Plate
M 27	RFS504Z	Spring, Full Auto Stop Detector Plate
M 28	RFJ49Z	Reel Table Ass'y (Right)
M 29	RFS505Z	Spring, Back Tension
M 30	RFU58Z	Button Base
M 31	RFS506Z	Spring, Record Stopper
M 32	RFX119Z	Record Stopper
M 34	RFS507Z	Spring (A), Button Lever
M 35	RFS508Z	Spring (B), Button Lever
M 36	RFY503Z	Lever, Erase Safty
M 37	RFS509Z	Spring, Cassette Holder
M 38	RFG74Z	Gear, FF
M 41	RFY504Z	Lever, Eject Slide
M 42	RFX120Z	Collar, Eject Slide Lever
M 43	RFS510Z	Spring, Eject Slide Lever
M 44	RFU59Z	Mechanism Base Ass'y
M 45	RFY505Z	Slide Lever Chassis
M 46	RFD205Z	Switch Spring Plate
M 50	RFX121Z	RC Stopper
M 51	RFY515Z	Pressure Button Operation Plate
M 52	RFS511Z	Spring, Pressure Button Operation Plate
M 53	RFY526Z	Switch Operation Plate
M 54	RFY506Z	Lever, Rew
M 55	RFY507Z	Button Lever, Rec
M 56	RFY508Z	Button Lever, Play
M 57	RFY509Z	Button Lever, Rew
M 58	RFY510Z	Button Lever, FF
M 59	RFY511Z	Button Lever, Stop
M 60	RFY512Z	Button Lever Ass'y, Pause
M 61	RFY513Z	Lever, Pause
M 62	RFS512Z	Spring, Pause Lever
M 63	RFX122Z	Stopper, Pause Button Lever
M 64	RFY514Z	Lever, Mode Change
M 65	RFS513Z	Spring, Mode Change Lever
M 66	RFX124Z	Stopper, Mode Change Lever
M 68	RFK16Z	RF Clutch Ass'y
M 69	RFS524Z	Spring, RF Clutch Arm
M 70	RFB50Z	Belt, FF
M 71	RFS514Z	Spring, Lift Arm Ass'y
M 72	RFY516Z	Lift Arm Ass'y
M 73	RFS515Z	Spring, Main Trigger Arm Ass'y
M 74	RFY517Z	Main Trigger Arm Ass'y
M 75	RFG75Z	Main Gear
M 76	RFY518Z	Change Lever Ass'y
M 77	RFS516Z	Spring, Change Lever
M 78	RFG76Z	Gear, Change
M 79	RFG77Z	Head Plate Moving Gear
M 80	RFS517Z	Spring, Trigger Arm
M 81	RFX125Z	Collar
M 82	RFY519Z	Trigger Arm Ass'y
M 83	RFY520Z	Trigger Arm
M 84	RFX123Z	Collar
M 85	RFY521Z	Play Moving Arm Ass'y
M 86	RFS518Z	Spring, Moving Arm
M 87	RFG79Z	Cam Gear Plate Ass'y
M 88	RFS519Z	Spring, Detector Plate
M 89	RFS520Z	Spring, Cam Gear Plate
M 90	RFG78Z	Cam Gear
M 91	RFQ35Z	Middle Pulley
M 92	RFB51Z	Belt (A), Main
M 93	RFY522Z	Lever, RF
M 94	RFE211Z	Detector Plate
M 95	RFY523Z	Lever, Control
M 96	RFS521Z	Spring, Control Lever
M 100	RFF35Z	Flywheel Ass'y, Pulley Capstan
M 101	RFF36Z	Flywheel Ass'y, Gear Capstan
M 102	RFB52Z	Belt (B), Main
M 104	RFS522Z	Spring, Damper
M 105	RFE212Z	Flywheel Cover Plate
M 106	RFD213Z	Collar, Motor Ass'y
M 107	RFI32Z	Cushion, Motor Ass'y
M 108	RFD207Z	Flywheel Holding Plate
M 110	RFM52Z	Motor Ass'y
M 112	RFY524Z	Operating Lever, Play, Rec etc.
M 113	RFY525Z	Shaft, Button Lever
M 114	RFD206Z	Button Frame
M 115	RFS523Z	Spring, Rec Button Lever
M 201	RFE214Z	Screw, R/P Head M'tg (Azimuth)
M 202	XQN17 + 4	Screw, Erase Head M'tg ⊕1.7×4
M 203	XQC2 + 3	Screw, Head Panel Lever M'tg ⊕2×3
M 204	RFE215Z	Screw, Pinch Roller Arm Base M'tg
M 205	RFE216Z	Poly Slider Washer
M 206	RFE217Z	Poly Slider Washer, Reel Table M'tg
M 207	XSN2 + 3	Screw, Cassette Holder Spring M'tg ⊕2×3
M 210	RFE221Z	Screw, Eject Slide Lever M'tg
M 211	XUC25FT	Circlip, Lift Arm, Change Lever etc. M'tg
M 212	RFE222Z	Screw, Button Base etc. M'tg
M 214	XQN2 + 15	Screw, Switch Spring Plate M'tg ⊕2×15
M 215	XUC15FT	Circlip, Main Gear M'tg
M 216	XQN2 + 35	Screw, Trigger Arm M'tg ⊕2×3.5
M 217	XQS2 + 25	Screw, Play Moving Arm, RF Lever etc. M'tg ⊕2×2.5
M 219	XSN2 + 4	Screw, Switch Plate etc. M'tg ⊕2×4
M 220	XQN2 + 7	Screw, Button Frame M'tg ⊕2×7
M 221	RFE218Z	Poly Washer, Flywheel, etc.
M 222	RFE219Z	Nylon Washer, Pinch Roller Arm Base
M 223	RBC745Z	Button, Rec
M 224	RBC746Z	Button, Play
M 225	RBC747Z	Button, FAST/CUE (<<)
M 226	RBC748Z	Button, FAST/CUE (>>)
M 227	RBC749Z	Button, Stop/Eject
M 228	RBC750Z	Button, Pause
M 229	RFS525Z	Spring, Head Panel
M 230	RFY527Z	Change Lever (B)
M 231	RFS526Z	Spring (B), Mode Change Lever
M 232	RFE220Z	Washer, Switch Plate
M 233	RFY528Z	Change Lever (A)
M 234	XQC2 + 4	Screw, Change Lever (B) M'tg ⊕2×4
M 235	RFX126Z	Collar, Change Lever (B)
M 236	XQC2 + 3	Screw, Slide Lever Chassis M'tg ⊕2×3
M 237	RFS527Z	Spring, Lift
M 238	RFS528Z	Spring, Change Lever (A)
M239	RFN152Z	Poly Washer, Change Lever, Detector Plate M'tg
M240	RFD208Z	R/P Switch Angle
M241	XSN2+3	Screw, R/P Switch Angle
		MECHANISM SWITCHES
S8	RFA58Z	Motor Switch
S9	RFA59Z	Play Switch
S10	RFA59Z	CUE/REV Switch
S11 (M109)	RFU60Z	Plate Ass'y Switch

CABINET PARTS LOCATION









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.

Ref. No.	Part. No.	Part Name & Description
		CABINET PARTS
K1 Z	**RYMXC41LZ**	Front Cabinet Ass'y
K1 E	**RYMXC41LZE**	Front Cabinet Ass'y ⚠
K2	**RYM1XC41LZ**	Speaker Grille Ass'y
K3	**RYQXC41LZ**	Cassette Holder Ass'y
K4	**RYPXC41LZ**	Cassette Panel Ass'y
K5	**RMC1007Z**	Shield Plate
K6	**XTV3+45G**	Screw, Rear Cabinet M'tg
K7	**XTV3+12G**	Screw, Mechanism, Power Transformer, etc M'tg
K8	**RKK244Y1**	Battery Cover
K9	**RBC742Z**	Direction Button
K10	**RBD248Y**	Knob, Graphic Equalizer
K11	**RBD313Z**	Knob, Switch
K12	**RBD326Z**	Knob, Reverse Mode
K13	**RBS193Z**	Knob, Volume
K14	**RBT234Z**	Knob, Fine Tuning
K15	**RJS4L3Z**	Socket (4 pin)
K16	**RJS6L3Z**	Socket (6 pin)
K17	**RJT707Z**	Terminal
K18	**XEARR225EAK**	Telescopic Antenna
K19	**RMC1006Z**	Shield Panel
K20	**RJC931Z**	Battery Terminal
K23	**XWG3**	Washer
K24	**XTS3+10B**	Screw, Handle ⊕ 3×10
K25	**XTV3+12GFY**	Screw, Bracket, Holder
K26 Z	**RYFXC41LZ**	Rear Cabinet
K26 E	**RYFXC41LZE**	Rear Cabinet Ass'y ⚠
K27	**RKX255Y**	Arm, Handle
K28	**RDE143Z**	Rack
K29	**RDP288Z**	Dial Pointer
K30	**RBT235Z**	Knob, Tuning
K31	**EAS10P239S**	Speaker, Woofer
K33	**RJE147Z**	Speaker Cord
K34	**RUL661Z**	Bracket
K35	**XTN3+20B**	Screw, Speaker Box
K36	**XTV3+8G**	Screw, Speaker
K37	**RHG3011Z**	Bushing, Speaker Cord
K38	**RKF765Z1**	Speaker Box (L)
K39	**RKF765Y1**	Speaker Box (R)
K40	**RKE512Z**	Holder, Speaker Cord
K41	**RGE76Z**	Stopper (R)
K42	**RGE76Y**	Stopper (L)
K43	**RJP2G4Y**	Plug (2 Pin)
K44	**RJP4G4Y**	Plug (4 Pin)
K45	**RJP6G4Y**	Plug (6 Pin)
K46	**RJS2T2Z**	Socket (2 Pin)
K47	**RMY185Y**	Heat Sink (for IC7)
K48	**RMY189Z**	Heat Sink (for Q13)
K49	**RUP1922Z**	Circuit Board
K50	**RJC511Z**	Battery Spring
K51	**RUQ12Z**	Spring, Earth
K52	**RDG5739Z**	Gear, Drum
K53	**XSN26+6**	Screw, Drum
K54	**XWA26B**	Washer, Drum
K55	**XTV3+8BFN**	Screw, Heat Sink M'tg
K56	**RJS2L3Z**	Socket (2 Pin)
K57	**RKX296Z1**	Handle
K58	**XYN3+F12FY**	Screw, Rod Ant. M'tg
K59	**RJM157Z**	Microphone
K60	**RSE117Z**	Counter
K61	**RUA629Z**	Direction Angle
K62	**RUB382Z**	Direction Lever
K63	**RUB383Z**	Reverse Mode Lod
K64	**RDG5782Z**	Dumper Gear
K65	**RDV34Z**	Belt, Counter
K66	**RJF28Z**	Fuse Holder
		ACCESSORIES
A1 Z	**RJAA6Z**	Power Cord, AC ⚠
A1 E	**RJAA7Z**	Power Cord, AC ⚠
A2	**RQX4604Z**	Instruction Book
		PACKINGS
P1	**RPK2024Z**	Gift Box
P2	**RPN9497Z**	Pad
P3	**RPP624Z**	Poly Cover

Z...For All European areas except United Kingdom & Germany.

E...For United Kingdom

GAD A.M ZE Printed in Japan Ⓕ

12/1/2014
ORDER NO. GAD85052232S2

Service Manual

Supplement - 1

Radio Cassette

RX-C41L

(Black)

Portable Stereo Component System

- Please use this manual together with the service manual for model No. RX-C41L [Z]/[E] order No. GAD85022232C2 and RX-C41L [G] order No. GAD85032239A2.
- This service manual indicates the main differences between; RX-C41L [Z]/[E]/[G] and supplement-1.

This is the Service Manual for the following areas.

[Z] ...For all European areas except United Kingdom & Germany.

[E] ...For United Kingdom.

[G] ...For F.R. Germany.

CHANGE OF PARTS

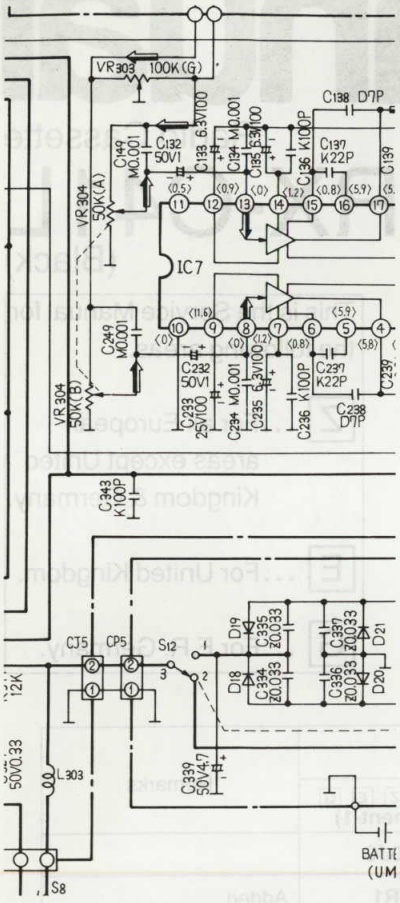
■ PARTS COMPARISON TABLE

Ref. No.	Parts Name and Description	Part Number		Remarks
		RX-C41L [Z] [E] [G] (Original)	**RX-C41L [Z] [E] [G] (Supplement-1)**	
C19	Capacitor (50 V 18 pF)	ECCD1H150KC	**ECCD1H180JC**	
C131, 231	Capacitor (50 V 0.1 µF)	———	**ECEA1HU0R1**	Added
C303	Capacitor (6.3 V47 µF)	ECEA1CU100	**ECEA0JU470**	
C327	Capacitor (50 V 2.2 µF)	ECEA1HUR33	**ECEA1HU2R2**	
C331	Capacitor (16 V 0.068 µF)	ECFT1E473MD	**ECFT1C683MD**	
C348	Capacitor (50 V 1 µF)	———	**ECEA1HU010**	Added
R15	Resistor (4.7 kΩ)	ERDS2TJ822	**ERDS2TJ472**	
R114, 214	Resistor (12 kΩ)	ERDS2TJ183	**ERDS2TJ123**	
R129, 229	Resistor (33 kΩ)	ERDS2TJ473	**ERDS2TJ333**	
R142, 143, 242, 243	Resistor (15 kΩ)	———	**ERDS2TJ153**	Added
R145, 245	Resistor (2.2Ω)	ERDS2TJ1R0	**ERDS2TJ2R2**	
R342	Resistor (56Ω)	ERDS2TJ560	———	Deleted ([E] only)
R346	Resistor (100Ω)	ERG2ANJP101S	**ERG3SJ101**	
R354	Resistor (2.2 kΩ)	ERDS2TJ102	**ERDS2TJ222**	
VC1~4	Variable Capacitor (CT1, 2, 5, 6)	RCV4RC2RA	**RCV4RC2R1A**	
K67	Shield Plate	———	**RMC795Y**	Added
K68	Shield Cover	———	**RMC163**	Added
P4	Spacer	———	**RPN4736Z**	Added
M5	Head Base	RFU57Z	**RFU63Z**	
M9	Plate, Erase Head	RFY501Z	———	Deleted
M11	Spring, Erase Head Plate	RFS499Z	———	Deleted
M202	Screw, Erase Head M'tg ⊕ 1.7×4	XQN17+4	**XSN2+10**	

Panasonic

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

SCHEMATIC DIAGRAM



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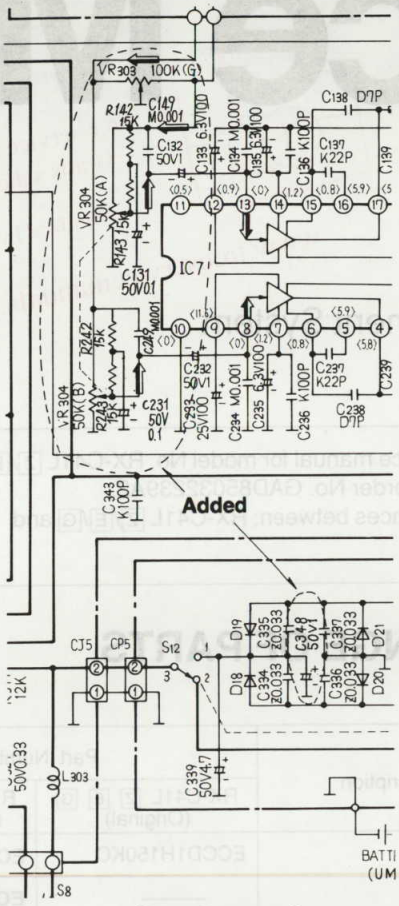
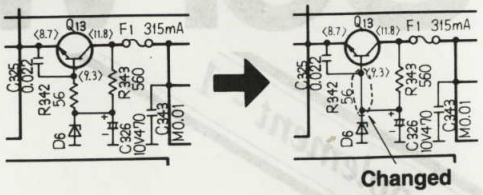


(Supplement-1)

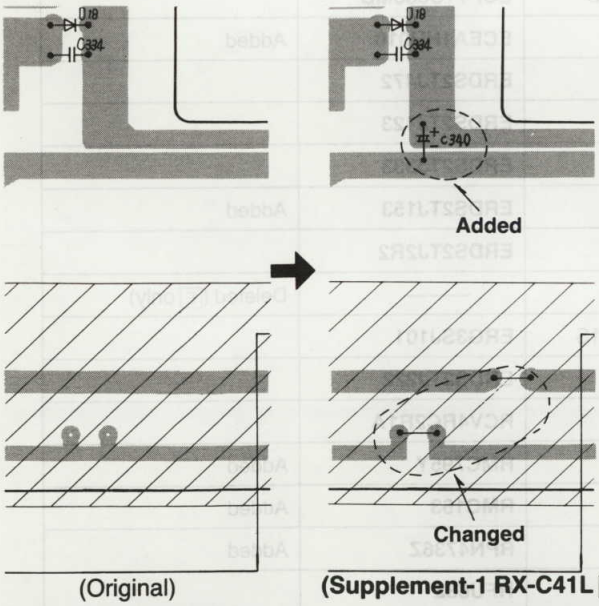


(Original) (Supplement-1)

Addition of K67, K68

A shield cover (K68) has been added in three places (capping T2, T3, and CF2 and shorted by a jumper wire) and one shield plate (K67) (soldered to T3 and C29 grounds on the solder side of the circuit board) have been added to enhance RX-C41L performance.

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM



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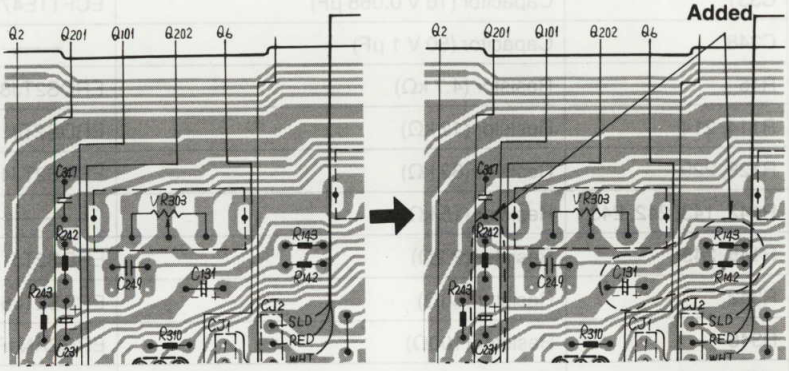

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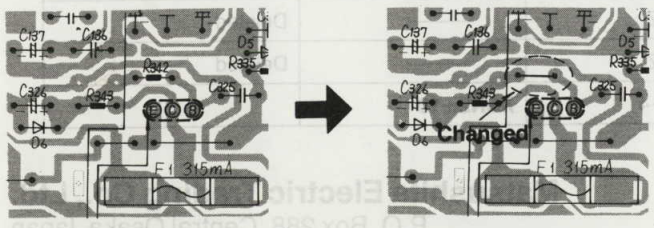

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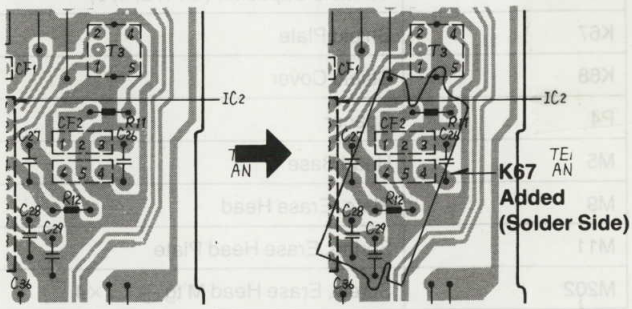


(Original) (Supplement-1)

GAD

Z E G

Printed in Japan Ⓕ

ORDER NO. GAD 8607433301

Service Manual

Radio Cassette

Supplement

Portable Stereo Component System

RX-C41
RX-C41L

(Silver)
(Black)

Please use this manual along with the original service manuals for the betow models.

Model No.	Order No.
RX-C41	[M/C] ...GAD85052250C1
RX-C41L	[Z/E] ...GAD85022232C2/ [G] ...GAD85034439A2

This is the Service Manual for the following areas.
- [M] ...For U. S. A.
- [C] ...For Canada.
- [Z] ...For all Euaropean area except United Kingdom
- [E] ...For United Kingdom
- [G] ...For F. S. Germany

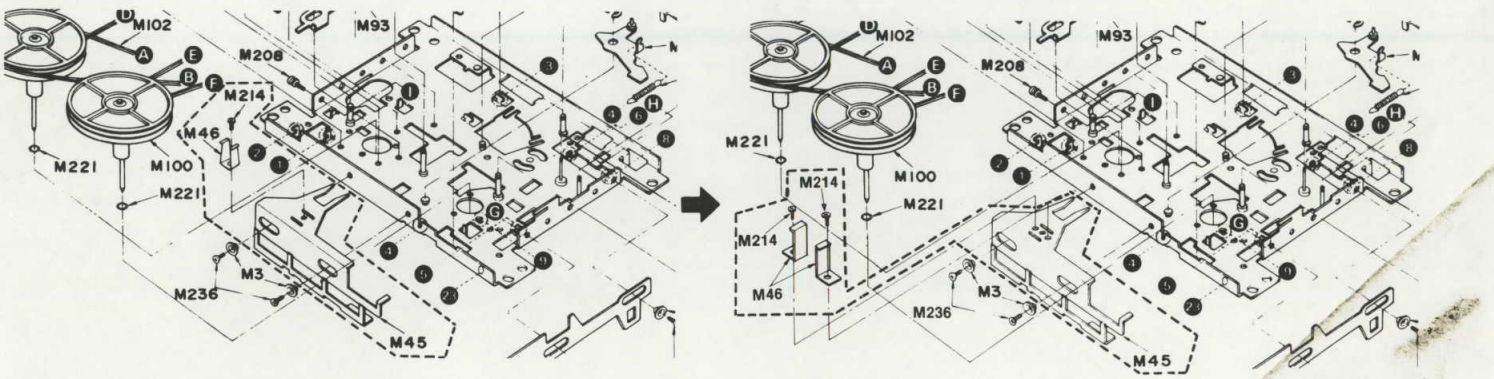
Areas	Color
[M/C]	Silver
[Z/E] [G]	Black

■ A part of mechanism [model RX-C41] is modified.
Please use following Kit for replacement, and it is not interchangable between Old and New.

■ **Kit No. RZZXC41**

■ **Kit Includes (Kit include 3 kind of NEW parts are as follows.)**

Ref. No.	Description	Part Numbers		Remarks
		OLD	NEW	
M45	Slide leve chassis	RFY505Z	**RFY505Z**	
M46	Switch Spring Plate	RFD205Z	**RFD224Z**	
M214	Screw, Switch Spring Plate	XQN2+15	**RFE324Z**	



OLD NEW

National / Panasonic

Matsushita Services Company
50 Meadowland Parkway,
Secaucus, New Jersey 07094

Panasonic Sales Company,
Division of Matsushita Electric
of Puerto Rico, Inc.
Ave. 65 De Infanteria, KM 9.7
Victoria Industrial Park
San Juan, Puerto Rico

Panasonic Hawaii Inc.
91-238 Kauhi St. Ewa Beach
P.O. Box 774
Honolulu, Hawaii 96808-0774

Matsushita Electric
of Canada Limited
5770 Ambler Drive, Mississauga,
Ontario, L4W 2T3

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

Y. Y Printed in Japan (N)