

Service Manual

Portable Stereo Component System

Radio Cassette

RX-C39L



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This is the Service Manual
for the following areas.

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

E ...For United Kingdom.

■ SPECIFICATIONS

General:

Power Requirement:

Z ...AC; 220 V, 50 Hz**E** ...AC; 240 V, 50 Hz

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:

14 W (7 W×2)...RMS (max.)

18 W (9 W×2)...MPO

Speaker:

Woofer; 12 cm (5") PM Dynamic Speaker (3Ω)

Tweeter; 4×2 cm (1¹/₂×³/₄") PM Dynamic Speaker (1.4 kΩ)

Input:

MIC; sensitivity 0.25 mV/applicable microphone impedance 200~600Ω

LINE IN; sensitivity 250 mV/47 kΩ over DC IN; 13.2 V

Output:

EXT SP; 3~8Ω

HEADPHONES; 32Ω

Dimensions:

Total Size

540(W)×208(H)×162(D) mm

(21¹/₄×8³/₁₆×6³/₈")

Main Unit

277(W)×208(H)×135(D) mm

(10⁷/₈×8³/₁₆×6³/₈")

Speaker Box

134(W)×208(H)×135(D) mm

(5⁵/₁₆×8³/₁₆×5¹/₄")

Weight:

3.8 kg (8 lb. 6.8 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

Sensitivity:

Z ...AM (LW/MW/SW); 455 kHz**E** ...AM (LW/MW/SW); 470 kHzFM; 2.5 μV/50 mW output
(-3 dB Limit Sens)

LW; 112 μV/m/50 mW output

MW; 100 μV/m/50 mW output

SW; 16 μV/50 mW output

Tape Deck Section:

Frequency Response:

90~10,000 Hz (with normal tape)

90~13,000 Hz (with CrO₂ tape)

AC bias, MAGNET erase

Recording System:

Tape Speed:

4.8 cm/s, (1⁷/₈ ips)

Program Time:

1 hour with C-60 cassette tape

Track System:

4-track 2 channel stereo recording
and playback

Design and specifications are subject to change without notice.

Panasonic

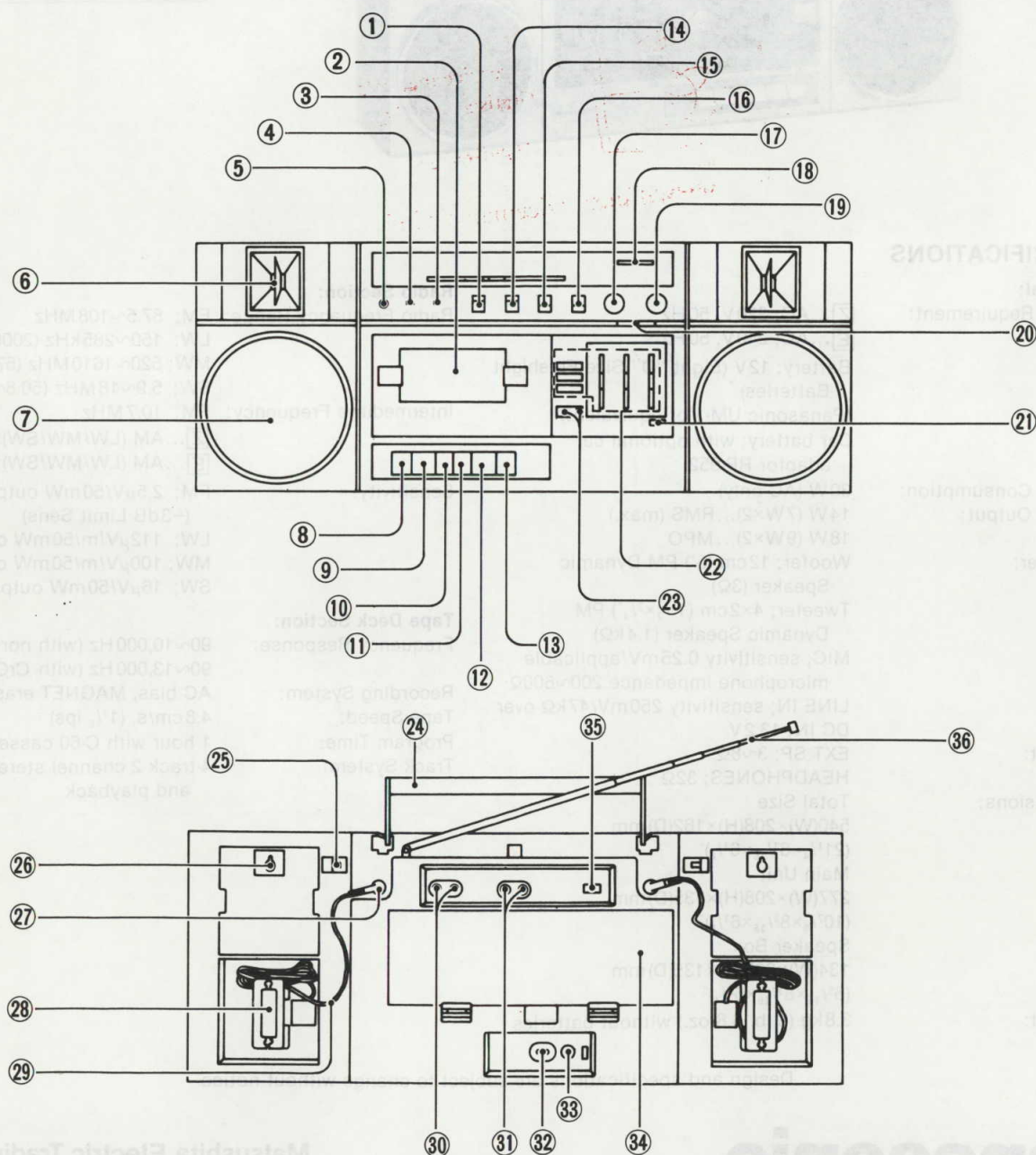
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LOCATION OF CONTROLS AND COMPONENTS



RX-C39L DEUTSCH

■ TECHNISCHE DATEN

Allgemeines:		Empfangsteil:	
Stromversorgung:	Wechselstrom: 220V, 50Hz Batterien: 12V (acht Trockenbatterien der Größe "D": National UM-1 o.ä.)	Wellenbereiche:	UKW: 87,5~108MHz LW: 150~285 kHz (2000~1060m) MW: 520~1610kHz (577~186m) KW: 5,9~18MHz (50,8~16,7m) UKW: 10,7MHz
Leistungsaufnahme:	30W (bei Netzbetrieb)	Zwischenfrequenz:	UKW: 10,7MHz LW/MW/KW: 455kHz
Ausgangsleistung:	max. 14W (2×7W) eff.	Empfindlichkeit:	UKW: 2,5µV bei 50mW Ausgangsleistung LW: 112µV/m bei 50mW Ausgangsleistung MW: 100µV/m bei 50mW Ausgangsleistung KW: 16µV bei 50mW Ausgangsleistung
Lautsprecher:	Tieftonlautsprecher: dynamischer PM-Lautsprecher, φ12cm (3Ω) Hochtוןlautsprecher: dynamischer PM-Lautsprecher, φ4×2cm (1.4kΩ)	Tonbandteil:	Frequenzgang: 90~10.000Hz (Normalband) 90~13.000Hz (CrO ₂ -Band) Gleichstrom-Vormagnetisierung, Gleichstromlöschung Bandgeschwindigkeit: 4,8cm/s Spieldauer: 1 Stunde mit Cassette C-60 Stereoaufnahme und -wiedergabe auf 4 Spuren/2 Kanälen
Eingangsspannungen:	MIC: Empfindlichkeit 0,25mV, Mikrofon-impedanz 200~600Ω LINE IN: Empfindlichkeit 250mV/mind. 47kΩ		
Ausgangsimpedanzen:	DC IN: 13,2V EXT SP: 3~8Ω HEADPHONES: 32Ω		
Abmessungen (B×H×T):	Gesamtsumme Grösse 540×208×162mm Hauptsächlich 277×208×162mm Lautsprecher Schachte 134×208×135mm		
Gewicht (ohne Batterien):	3,8kg	Änderungen vorbehalten.	

BEZEICHNUNGEN IN DER SCHEMATISCHEN DARSTELLUNG

Bemerkungen:

1. S1-1~S1-4: Funktionsschalter auf „TAPE, POWER/OFF“.
(1 = TAPE, POWER/OFF, 2 = RADIO, 3 = LINE)

2. S2-1~S2-8: Wellenbereichsschalter auf „FM“.
(1 = FM, 2 = LW, 3 = MW, 4 = SW)

3. S3-1~S3-10: Aufnahme-/Wiedergabeschalter auf „Wiedergabe“.
(1...Wiedergabe, 3...Aufnahme)
Interferenzschuttschalter.
EIN/AUS-Schalter des Motors auf „OFF“.

4. S4: Wahlschalter für Gleichstrom-oder Wechselstrombetrieb auf „DC IN“.

5. S5: Bandsortenvähler auf „NORMAL“
(1 = NORMAL, 3 = METAL (P.B)/CrO₂)

6. S6: UKW-Betriebsartenwahl in Stereo-Position.

7. S7: Einstellung der spannungsgesteuerten Oszillatorfrequenz.

8. S8: VR101~103, 201~203: Grafischer Entzerrer VR.

9. VR104, 204: Lautstärkeregler.

VR301: Balanceregler.
10. Die Markierung (▼) bezeichnet einen Meßpunkt, z.B. ▼ = Meßpunkt 1.

11. Alle Gleichspannungen sind mit einem Elektronikvoltmeter vom negativen Batterieanschluß aus zu messen.
< >...Stellung „FM“, ()...Stellung „AM“, []...Stellung „Aufnahme“, Nein marke...Stellung „Wiedergabe“.

12. Batteriestrom: ohne Signal60mA
bei maximaler Ausgangsleistung (Radio)1300mA
bei maximaler Ausgangsleistung (Cassette)1300mA

13. Die Markierung (*) bezeichnet einen gedruckten Widerstand.

14. Zur Betriebssicherheit.
Die im Schaltplan mit ▲ gekennzeichneten Bauteile sind für einen sicheren Betrieb dieses Gerätes besonders wichtig und sollten daher nur durch Originalbauteile ersetzt werden.

ABGLEICH

■ VORGANGSWEISE BEIM ABGLEICH

BITTE DIESEN ABSCHNITT VOR DEM ABGLEICH SORGFÄLTIG DURCHLESEN	
1. Den Lautstärkeregler in die Maximalposition stellen.	5. Den Funktionsschalter auf „radio“ stellen.
2. Den Grafikentzerrerregler auf die Mittenposition einstellen.	6. Drehen Sie den Feinabstimmregler in die Mittelstellung.
3. Den Wellenbereichsschalter auf LW, MW, KW oder UKW stellen.	7. Eine Gleichspannung von 12V anlegen.
4. Den Balanceregler in die Mittelposition stellen.	8. Der Signalgeneratorausgang sollte nicht größer sein, als für eine Ausgangsanzeige unbedingt notwendig ist.

■ LW-, MW- und KW-ABGLEICH

WEL- LEN- BAND	SIGNALGENERATOR oder WOBBELGENERATOR		STELLUNG DES ABSTIMM- REGLERS	MESSGERÄT (ELEKTRONIK- VOLTMETER oder OSZILLOSKOP)	ABGLEICH	BEMERKUNGEN	
	ANSCHLÜSSE	FREQUENZ					
AM-ZF-ABGLEICH							
(1)	MW	Aus einem Draht einige Schleifenwindungen bilden und das Signal in die Empfängerschleife abstrahlen.	455kHz, 30% mod. (Modulationsfrequenz 400Hz)	Der Abstimm-punkt, wo keine Interferenz auftritt. (ungefähr bei 600kHz)	Ausgangslei-stungsmesser parallel zur Lautsprecher-Schwingspule.	T2 (AM-ZF-Abgleich)	Die maximale Ausgangsleistung einstellen.
LW-HF-ABGLEICH							
(2)	LW	"	136kHz	Drehkonden-sator ganz geschlossen.	"	L7 (LW-Oszillators-pule)	"
(3)	LW	"	297kHz	Drehkonden-sator ganz aufgedreht.	"	CT5 (LW-Oszillatortrimmer)	"
(4)	LW	"	145kHz	Das Signal abstimmen.	"	(* 1) L4 (LW-Antennens-pule)	Die maximale Ausgangsleistung einstellen. L4 durch Verschieben am Ferritkern abgleichen.
(5)	LW	"	285kHz	"	"	CT3 (LW-Antennentrimmer)	Die maximale Ausgangsleistung einstellen. Die Schritte (2) bis (5) wiederholen.
MW-HF-ABGLEICH							
(6)	MW	"	511kHz	Drehkonden-sator ganz geschlossen.	"	L8 (MW-Oszillators-pule)	Die maximale usgangsleistung einstellen.
(7)	MW	"	1.650kHz	Drehkonden-sator ganz aufgedreht.	"	CT6 (MW-Oszillatortrimmer)	"
(8)	MW	"	550kHz	Das Signal abstimmen.	"	(* 1) L5 (MW-Antennens-pule)	Die maximale Ausgangsleistung einstellen. L5 durch Verschieben am Ferritkern abgleichen.
(9)	MW	"	1.500kHz	"	"	CT4 (MW-Antennentrimmer)	Die maximale Ausgangsleistung einstellen. Die Schritte (6) bis (9) wiederholen.
(* 1) Nach beendetem Abgleich ist der Antennenspulenkörper mit Wachs zu befestigen.							
KW-HF-ABGLEICH							
10)	KW	Über einen Keramik-kondensator (10pF) an den Meßpunkt ▼ anschließen. Den negativen Ausgang an den Meßpunkt ▼ anschließen.	5,75MHz	Drehkonden-sator ganz geschlossen.	"	L9 (KW-Oszillators-pule)	Die maximale usgangsleistung einstellen.
11)	KW		18,8MHz	Drehkonden-sator ganz aufgedreht.	"	CT7 (KW-Oszillatortrimmer)	"
12)	KW		5,9MHz	Das Signal abstimmen.	"	L6 (KW-Antennens-pule)	"

■ UKW-ABGLEICH

WEL-LEN-BAND	SIGNALGENERATOR oder WOBBELGENERATOR		STELLUNG DES ABSTIMM-REGLERS	MESSGERÄT (ELEKTRONIK-VOLTMETER oder OSZILLOSKOP)	ABGLEICH	BEMERKUNGEN
	ANSCHLÜSSE	FREQUENZ				
UKW-ZF-ABGLEICH						
(1) UKW	Über einen 0,001µF-Kondensator an den Meßpunkt ▼ anschließen. Den negativen Ausgang an den Meßpunkt ▼ anschließen.	10,7MHz (SWP.)	Der Abstimm-punkt, wo keine Interferenz auftritt (ungefähr bei 90MHz).	Die Vertikal-amplitude des Oszilloskops an den Meßpunkt ▼ anschließen. Den negativen Ausgang an den Meßpunkt ▼ anschließen.	T1 (1. UKW-ZF-Abgleich)	Die Maximalamplitude einstellen. (Siehe Abb. 14.)
(2) UKW	"	"	"	"	T4 (2. UKW-ZF-Abgleich)	Die Maximalamplitude einstellen. (Siehe Abb. 15.)
UKW-HF-ABGLEICH						
(3) UKW	Über eine künstliche UKW-Antenne an den Meßpunkt ▼ anschließen. Den negativen Ausgang an den Meßpunkt ▼ anschließen.	87,3MHz	Drehkondensator ganz geschlossen.	Ausgangslei-stungsmesser parallel zur Lautsprecher-Schwingspule.	L2 (UKW-Oszillators-pule)	(*2) Die maximale Ausgangsleistung einstellen.
(4) UKW		108,3MHz	Drehkondensator ganz aufgedreht.	"	CT2 (UKW-Oszillatortrimmer)	"
(5) UKW		106MHz	Das Signal abstimmen.	"	CT1 (UKW-Antennentrimmer)	(*2) Die maximale Ausgangsleistung einstellen. Die Schritte (3) bis (5) wiederholen.
(*2) Es gibt drei verschiedene Ausgangsfrequenzkurven. Stimmen Sie die Mittelfrequenz ab.						

■ KANAL TRENNUNGSABGLEICH

PRÜFUNG	UKW-MESSENDER SOURCE-ANSCHLUSS	GERÄTEAN-SCHLUSS (ELEKTRO-NISCHER ZÄHLER)	EINSTELLUNG	ANGABEN	BEMERKUNGEN
Einstellung des Pilottons	98MHz, 60dB	▼ ... (+) ... (-)	VR1	19kHz	Mit dem elektronischen Zähler den Spannungskon- stanthalter (VR1) auf 19kHz (±150Hz) einstellen.

■ AUDIO-ABGLEICH

EINSTELLUNG	EINGANG	MESSPUNKT	MESSWERT	EINSTELL-PUNKT	BEMERKUNGEN
Azimut	QZZCFM (8kHz, -20dB)	EXT SP	Die maximale Ausgangsleistung einstellen.	Azimut-Einstell-schraube	bei Wiedergabe

■ GESCHWINDIGKEITSEINSTELLUNG

ZÄHLER	EINSTELLUNG
An die Ohrhörebuchse anschließen.	1. Testband abspielen (QZZCWAT, 3kHz). 2. VR so einstellen, daß auf dem Zähler 3000Hz±90Hz abgelesen werden.

RX-C39L FRANÇAIS

SPECIFICATIONS

Généralités:	
Alimentation:	c.a. 220V, 50Hz Piles: 12V (huit piles sèches de dimension D) (National UM-1 ou équivalent) 30W (C.A. seulement) 14W (7W×2)...RMS (max.) Haut-parleur des graves: haut-parleur dynamique 12cm à aimant fixe (3Ω) Haut-parleur des aigus: haut-parleur dynamique 4×2cm à aimant fixe (1.4kΩ)
Consommation:	
Puissance de sortie:	
Enceinte acoustique:	
Entrée:	MIC: sensibilité 0,25mV: impédance applicable pour microphone 200 à 600Ω ENTREE: sensibilité 250mV/47kΩ ou plus DC IN: 13,2V EXT SP: 3 à 8Ω HEADPHONE: 32Ω
Sortie:	
Dimensions (L×h×Pr)cm:	Totale grandeur 540×208×162 (21 ¹ / ₄ ×8 ³ / ₁₆ ×6 ³ / ₈)" Principal 277×208×162 (10 ⁷ / ₈ ×8 ³ / ₁₆ ×6 ⁷ / ₈)" Parleur boîte 134×208×135 (5 ³ / ₁₆ ×8 ³ / ₁₆ ×5 ³ / ₁₆)" 3,8 sans piles
Poids kg:	

Section radio:	
Gamme de fréquence	radio: FM: 87,5 à 108MHz GO: 150 à 285kHz (2000 à 1060m) PO: 520 à 1610kHz (577 à 186m) OC: 5,9 à 18MHz (50,8 à 16,7m)
Fréquence intermédiaire:	FM: 10,7MHz AM (GO/PO/OC): 455kHz
Sensibilité:	FM: 2,5μV pour une sortie de 50mW GO: 112μV/m pour une sortie de 50mW PO: 100μV/m pour une sortie de 50mW OC: 16μV pour une sortie de 50mW
Section platine magnétophone:	
Réponse de fréquence:	90 à 10.000Hz (avec bande normale) 90 à 13.000Hz (avec bande CrO ₂)
Système d'enregistrement:	Polarisation C.A., effacement magnétique
Vitesse de bande:	4,8cm/sec.
Durée de lecture:	1 heure avec cassette C-60
Pistes:	Enregistrement et lecture stéréo 4 pistes, 2 canaux
Ces spécifications sont sujettes à des changements sans préavis.	

SYMBOLES UTILISES DANS LE SCHEMA

Remarques:	
1. S1-1~S1-4:	Commutateur de fonction en position "TAPE, POWER/OFF". (1..."TAPE POWER/OFF", 2..."RADIO", 4..."LINE")
2. S2-1~S2-8:	Sélecteur de gamme d'onde en position "FM". (1..."FM", 2..."LW", 3..."MW", 4..."SW")
3. S3-1~S3-10:	Commutateur enregistrement/lecture en position "playback". (1...Lecture, 3...Enregistrement)
4. S4:	Commutateur anti-interférences.
5. S5:	Commutateur "ON/OFF" du moteur en position "OFF".
6. S6:	Sélecteur C.A./C.C. en position "DC IN".
7. S7-1~S7-3:	Sélecteur de bande en position "NORMAL". (1..."NORMAL", 3..."METAL (P.B)/CrO ₂ ")
8. S8:	Sélecteur de mode FM sur la position stéréo.
9. VR1:	Réglage de fréquence de l'oscillateur VCO. VR101~103, 201~203: VR égaliseur-correcteur graphique. VR104, 204: Potentiomètre de volume. VR301: Commande de balance.
10.	La marque (▼) signale un point de vérification. Ex.: ▼ = point de vérification 1.
11.	La tension C.C. est mesurée au moyen d'un voltmètre électronique à partir de la borne négative de la pile. < >...Position FM, ()...Position AM, []...Position Enregistrement, Non marque...Position Lecture.
12.	Courant des piles: Pas de signal60mA Sortie maximum (Radio).....1300mA Sortie maximum (Bande) ...1300mA
13.	La marque (*) signale une résistance imprimée.
14.	Remarque importante concernant la sécurité. Les pièces marquées ▲ ont des caractéristiques spéciales, importantes pour la sécurité. Lors du remplacement d'une de ces pièces, n'utiliser que les pièces spécifiées par le fabricant.

ALIGNEMENTS

INSTRUCTIONS D'ALIGNEMENT

AVANT DE PROCEDER AUX ALIGNEMENTS, LIRE ATTENTIVEMENT CE QUI SUIT	
1. Placer le potentiomètre de volume au maximum. 2. Amener la commande de l'égaliseur-correcteur graphique à la position centrale. 3. Placer le sélecteur de bande sur GO, PO, OC ou FM. 4. Placer la commande de balance au centre. 5. Placer le sélecteur de fonctions sur "radio".	6. Placer la commande de syntonisation fine sur sa position centrale. 7. Régler la tension sur 12V C.C. 8. Régler la sortie du générateur étalonné de façon à ne pas surcharger les circuits.

ALIGNEMENT GO, PO, et OC

BANDE	GENERATEUR ETALONNE ou GENERATEUR DE BALAYAGE		POSITION DE L'AIGUILLE SUR LE CADRAN	INDICATEUR (VOLTMETRE ou OSCILLOSCOPE ELECTRO- NIQUES)	REGLAGE	OBSERVATIONS	
	BRANCHEMENTS	FREQUENCE					
ALIGNEMENT IF sur AM							
(1)	PO	Faire une boucle de plusieurs tours de fil et émettre le signal dans la boucle du récepteur.	455kHz (modulation de 30% à 400Hz)	Point de non- interférence. (à environ 600kHz)	Voltmètre branché à la bobine oscillatrice.	T2 (AM IFT)	Régler pour une sortie maximum.
ALIGNEMENT HF sur GO							
(2)	GO	"	136kHz	Condensateur variable totalement fermé.	"	L7 (bobine d'oscillateur GO)	"
(3)	GO	"	297kHz	Condensateur variable ouvert à fond.	"	CT5 (trimmer d'oscillateur GO)	"
(4)	GO	"	145kHz	Syntoniser sur le signal.	"	(* 1) L4 (bobine d'antenne GO)	Régler pour une sortie maximum en glissant la bobine L4 le long du noyau en ferrite.
(5)	GO	"	285kHz	"	"	CT3 (trimmer d'antenne GO)	Régler pour une sortie maximum. Refaire les étapes (2) à (5).
ALIGNEMENT HF sur PO							
(6)	PO	"	511kHz	Condensateur variable totalement fermé.	"	L8 (bobine d'oscillateur PO)	Régler pour une sortie maximum.
(7)	PO	"	1.650 kHz	Condensateur variable ouvert à fond.	"	CT6 (trimmer d'oscillateur PO)	"
(8)	PO	"	550kHz	Syntoniser sur le signal.	"	(* 1) L5 (bobine d'antenne PO)	Régler pour une sortie maximum en glissant la bobine L5 le long du noyau en ferrite.
(9)	PO	"	1.500kHz	"	"	CT4 (trimmer d'antenne PO)	Régler pour une sortie maximum. Refaire les étapes (6) à (9).
(* 1) Sceller la bobine d'antenne à la cire après avoir achevé l'alignement.							
ALIGNEMENT HF sur OC							
(10)	OC	Brancher au point ▼ par un condensateur en céramique (10pF). Côté négatif au point ▲.	5,75MHz	Condensateur variable totalement fermé.	"	L9 (bobine d'oscillateur OC)	Régler pour une sortie maximum.
(11)	OC		18,8MHz	Condensateur variable ouvert à fond.	"	CT7 (trimmer d'oscillateur OC)	"
(12)	OC		5,9MHz	Syntoniser sur le signal.	"	L6 (bobine d'antenne OC)	"

ALIGNEMENT FM

BANDE	GENERATEUR ETALONNE ou GENERATEUR DE BALAYAGE		POSITION DE L'AIGUILLE SUR LE CADRAN	INDICATEUR (VOLTMETRE ou OSCILLOSCOPE ELECTRO- NIQUES)	REGLAGE	OBSERVATIONS	
	BRANCHEMENTS	FREQUENCE					
ALIGNEMENT IF sur FM							
1)	FM	Brancher au point ▼ via 0,001μF. Côté négatif au point ▲.	10,7 MHz (SWP.)	Point de non- interférence. (à environ 90 MHz)	Brancher la sonde vert. de l'oscillo- scope au point ▼. Côté négatif au point ▲.	T1 (FM 1 ^{ère} IFT) Régler pour une amplitude maximum. (Voir fig. 14.)	
2)	FM	"	"	"	T4 (FM 2 ^{ème} IFT)	Régler pour une amplitude maximum. (Voir fig. 15.)	
ALIGNEMENT HF sur FM							
3)	FM	Brancher au point ▼ via une antenne fictive FM. Côté négatif au point ▲.	86,2 MHz	Condensateur variable totalement fermé.	Voltmètre bran- ché à la bobine oscillatrice.	L2 (bobine d'oscillateur FM)	(*2) Régler pour une sortie maximum.
4)	FM		109,3 MHz	Condensateur variable ouvert à fond.	"	CT2 (trimmer d'oscillateur FM)	"
5)	FM		106 MHz	Syntoniser sur le signal.	"	CT1 (trimmer d'antenne FM)	(*2) Régler pour une sortie maximum. Refaire les étapes (3) à (5).
(*2) Il y aura trois réponses de sortie; la syntonisation adéquate est la fréquence du milieu.							

ALIGNEMENT DE LA SEPARATION

ELEMENT	GENERATEUR DE SIGNAUX FM BRANCHEMENT A L'EQUIPMENT (COMPTEUR SUR LA SOURCE	BRANCHEMENT A L'EQUIPMENT (COMPTEUR ELECTRONIQUE)	REGLAGE	SPECIFICATION	REMARQUES
Réglage du signal pilote.	98MHz, 60dB	▼...(+) ▲...(-)	VR1	19kHz	Régler VR1 pour 19kHz (±150Hz) en effectuant la lecture sur le compteur électronique.

ALIGNEMENTS AUDIO

ELEMENT	ENTREE	POINT DE MESURE	SPECIFICATION	POINT DE REGLAGE	OBSERVATIONS
Azimet	QZZCFM (8kHz, -20dB)	EXT SP	Régler pour une sortie maximum.	Vis d'azimet	Mode de lecture

VITESSE DE BANDE

COMPTEUR	REGLAGE
Brancher sur le jack de l'écouteur	1. Procéder à la lecture de la cassette de contrôle (QZZCWAT, 3kHz). 2. Régler VR jusqu'à ce que le compteur indique 3000Hz±90Hz.

- ① Tape Selector (TAPE)
[METAL (P.B)/CrO₂, NORMAL]
② Cassette Compartment
③ Operation/Battery Check Indicator
(OPR/BATT)
④ FM Stereo Indicator (FM STEREO)
⑤ Headphones Jack (PHONES)
32Ω, ϕ 3.5
⑥ Speaker (Tweeter)
4×2cm (1½×¾"); 1.4kΩ
⑦ Speaker (Woofer)
12cm (5"); 3Ω
⑧ Record Button (● REC)
⑨ Playback Button (▶ PLAY)
⑩ Rewind Button (◀ REWIND)
⑪ Fast Forward Button (▶▶ FF)
⑫ Stop/Eject Button
(■ STOP/▲ EJECT)
⑬ Pause Button (|| PAUSE)
- ⑭ FM Mode Selector (FM MODE)
[STEREO, MONO]
⑮ Function Selector (SELECTOR)
[LINE, RADIO, TAPE/OFF]
⑯ Band Selector (BAND)
[FM, LW, MW, SW]
⑰ Balance Control (BALANCE)
⑱ Tuning Control (TUNING)
⑲ Volume Control (VOLUME)
⑳ Fine Tuning Control (FINE TUNING)
㉑ Built-in Microphone
(MICROPHONE)
㉒ Graphic Equalizer Controls
(GRAPHIC EQUALIZER)
㉓ Tape Counter and Reset Button
(TAPE COUNTER)
㉔ Handle
㉕ Speaker Release Lever (RELEASE)
㉖ Speaker Wall Mount

- ㉗ Speaker Jack (IMP 3~8Ω SPEAKER)
 ϕ 3.5, 3~8Ω
㉘ Speaker Cable Compartment
㉙ Speaker Cable
㉚ External Microphone Jacks
(EXT MIC) ϕ 3.5, 0.25mV, 200~600Ω
㉛ Line Input Jacks (LINE IN)
250mV/47kΩ over
㉜ AC Socket (AC IN~)
㉝ DC Input Jack
(DC IN 13.2V ⊖ ⊕)
㉞ Battery Compartment
㉟ Beat Proof Switch (BEAT PROOF)
㊱ Telescopic Antenna

The Name Plate of this set is located on the bottom of the center unit.

DISASSEMBLY INSTRUCTIONS

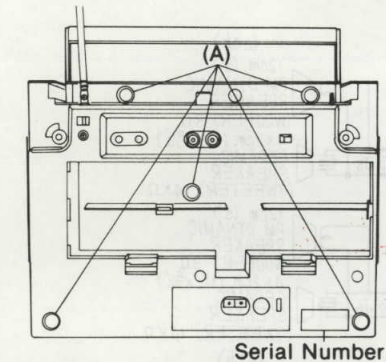


Fig. 3

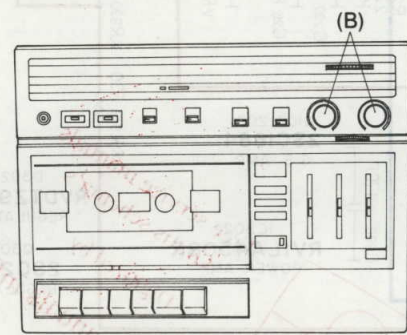


Fig. 4

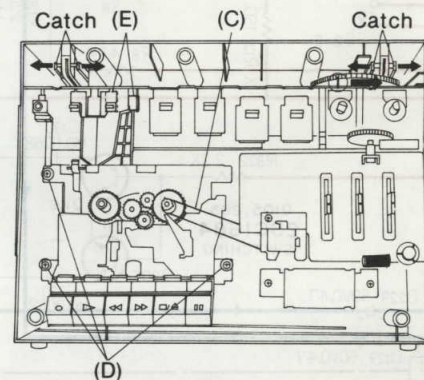


Fig. 5

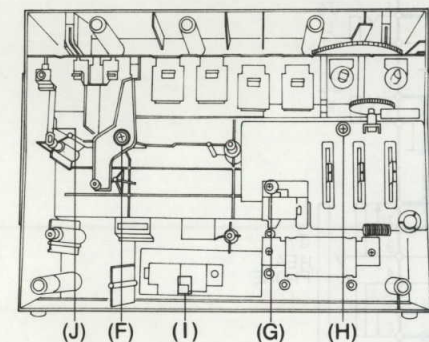


Fig. 6

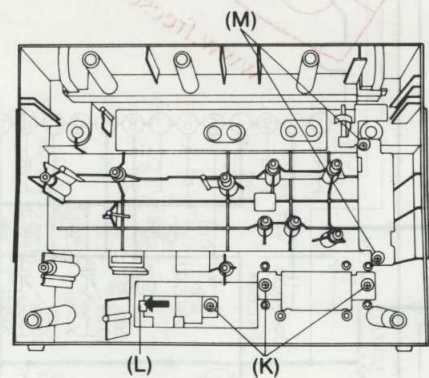


Fig. 7

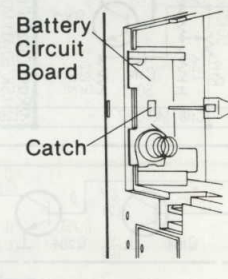


Fig. 8

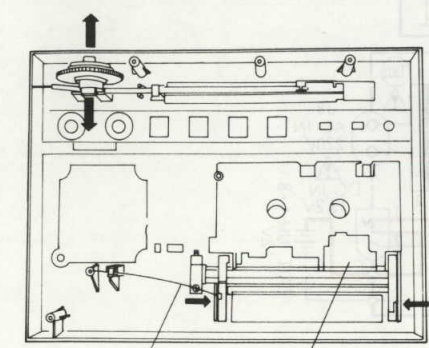


Fig. 9

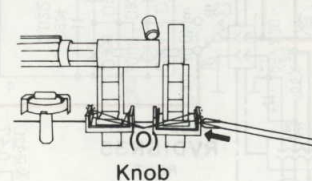


Fig. 10

MODULATION	88	92
WAVE	150	170
WAVE	520	600
WAVE	6.0	7.0
	0	2

Fig. 11

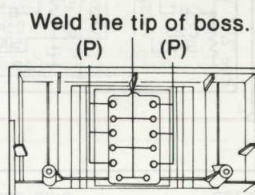


Fig. 12

Ref. No.	Procedure	Shown in Fig.—	To remove —	Remove —
1		—		Remove the battery cover.
2		3		Screw (3×40) (A)×5
3	1~4	4	Front cabinet * 1, 2	Knob (B)×2
4		—		Push the eject button.
5		5		Counter belt (C)×1
6	1~7	5	Mechanism	Screw (3×12) (D)×3
7		5		Socket (E)×2
8	1~8	6	R/P lever	Screw (3×10) (F)×1
9	1~4, 9	6	Counter	Screw (3×12) (G)×1
10		6		Screw (3×12) (H)×1
11	1~13	6	Main circuit board	Socket (I)×1
12		6		Terminal (J)×1
13		—		Pull out the circuit board.
14		7		Screw (3×12) (K)×3
15		7		Push the catch in the direction of arrow (L)×1
16	1~17	7	Power source circuit board.	Screw (3×12) (M)×2
17		8		Push the catch and remove the battery circuit board.
18		9		Spring (N)×1
19	1~4, 18, 19	9	Cassette slot	Push the cassette slot in the direction of arrows.
20	1~13, 20	10	Knob	Push the catch in the direction of arrows.... (O)×4
21	1~4, 21	5	Handle	Push the catch in the direction of arrows.
22	1~4, 22	9	Tuning knob	Push the cabinet in the direction of arrows.
23	23	12	Tweeter * 3	Cut the tip of boss..... (P)×6

- * 1. Turn the drum gear in the direction of arrow ① as shown in fig. 5.
* 2. Set the dial pointer at the position as shown in fig. 11.
* 3. Weld the tip of boss as shown in fig. 12.

MEASUREMENTS AND ADJUSTMENTS

ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

- Set volume control to maximum.
- Set Graphic Equalizer control to center.
- Set band switch to LW, MW, SW or FM.
- Set balance control to center.
- Set function selector to radio.
- Set fine tuning to center.
- Set power source voltage to 12V DC.
- 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					
(1) MW	Fashion loop of several turns of wire and radiate signal into loop of receiver.	Ⓩ...455kHz ⓔ...470kHz 30% Mod. at 400Hz	Point of non-interference. (on/ about 600kHz)	Output meter across voice coil.	T2 (AM IFT) Adjust for maximum output.
LW-RF ALIGNMENT					
(2) LW	"	136 kHz	Tuning capacitor fully closed.	"	L7 (LW OSC Coil) "
(3) LW	"	297 kHz	Tuning capacitor fully open.	"	CT5 (LW OSC Trimmer) "
(4) LW	"	145 kHz	Tune to signal.	"	(* 1) L4 (LW ANT Coil) Adjust for maximum output. Adjust L4 by moving coil bobbin along ferrite core.
(5) LW	"	285 kHz	"	"	CT3 (LW ANT Trimmer) Adjust for maximum output. Repeat steps (2)~(5).

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

BAND	SIGNAL GENERATOR or SWEEP GENERATOR	RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLT-METER or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY			
MW-RF ALIGNMENT					
(6) MW	Fashion loop of several turns of wire and radiate signal into loop of receiver.	511kHz	Tuning capacitor fully closed.	Output meter across voice coil.	L8 (MW OSC Coil) Adjust for maximum output.
(7) MW	"	1,650kHz	Tuning capacitor fully open.	"	CT6 (MW OSC Trimmer) "
(8) MW	"	550kHz	Tune to signal.	"	(* 1) L5 (MW ANT Coil) Adjust for maximum output. Adjust L5 by moving coil bobbin along ferrite core.
(9) MW	"	1,500kHz	"	"	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	Connect to test point ▼ through ceramic capacitor (10pF). Negative side to test point ▼.	5.75MHz	Tuning capacitor fully closed.	"	L9 (SW OSC Coil) Adjust for maximum output.
(11) SW	"	18.8MHz	Tuning capacitor fully open.	"	CT7 (SW OSC Trimmer) "
(12) SW	"	5.9MHz	Tune to signal.	"	L6 (SW ANT Coil) "

FM ALIGNMENT

BAND	SIGNAL GENERATOR or SWEEP GENERATOR	RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLT-METER or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY			
FM-IF ALIGNMENT					
(1) FM	High side thru. 0.001μF to test point ▼. Negative side to test point ▼.	10.7MHz (SWP.)	Point of non-interference. (on/ about 90MHz)	Connect vert. amp. of scope to test point ▼. Negative side to test point ▼.	T1 (FM 1st IFT) Adjust for maximum amplitude. (Refer to fig. 14.)
(2) FM	"	"	"	"	T4 (FM 2nd IFT) Adjust for maximum amplitude. (Refer to fig. 15.)
FM-RF ALIGNMENT					
(3) FM	Connect to test point ▼ through FM dummy antenna. Negative side to test point ▼.	86.2MHz	Variable capacitor fully closed.	Output meter across voice coil.	L2 (FM OSC Coil) (* 2) Adjust for maximum output.
(4) FM	"	109.3MHz	Variable capacitor fully open.	"	CT2 (FM OSC Trimmer) "
(5) FM	"	106MHz	Tune to signal.	"	CT1 (FM ANT Trimmer) (* 2) Adjust for maximum output. Repeat steps (3)~(5).
(* 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.	98MHz, 60dB	▼ ... (+) ▼ ... (-)	VR1	19kHz	Adjust VR1, for 19kHz (±150Hz) reading on electronics counter.

AUDIO ADJUSTMENT

ITEM	INPUT	MEASUREMENT POINT	SPECIFICATION	ADJUSTMENT POINT	REMARKS
Azimuth	QZZCFM (8kHz, -20dB)	SP jack	Maximum output.	Azimuth screw (Refer to fig. 17)	Playback mode

TAPE SPEED ADJUSTMENT (Refer to fig. 16)

COUNTER	ADJUSTMENT
Connect to speaker jack	1. Playback test tape (QZZCWAT, 3kHz). 2. Adjust VR until 3000Hz±90Hz is read on the counter.

9. VR1: VCO adjustment VR.
VR101~103, 201~203: Graphic equalizer VR.
VR104, 204: Volume control VR.
VR301: Balance control VR.
10. DC voltage measurements are taken with electronics voltmeter from negative terminal of battery.
< > ...FM, () ...AM, l ...Record
11. Battery current: No signal 60mA
Maximum output (radio) 1.3A
Maximum output (tape) 1.3A
12. For resistors, using printed types except those with * mark.
13. The mark (▼) shows test point. e.g. ▼ = test point 1.
14. 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.

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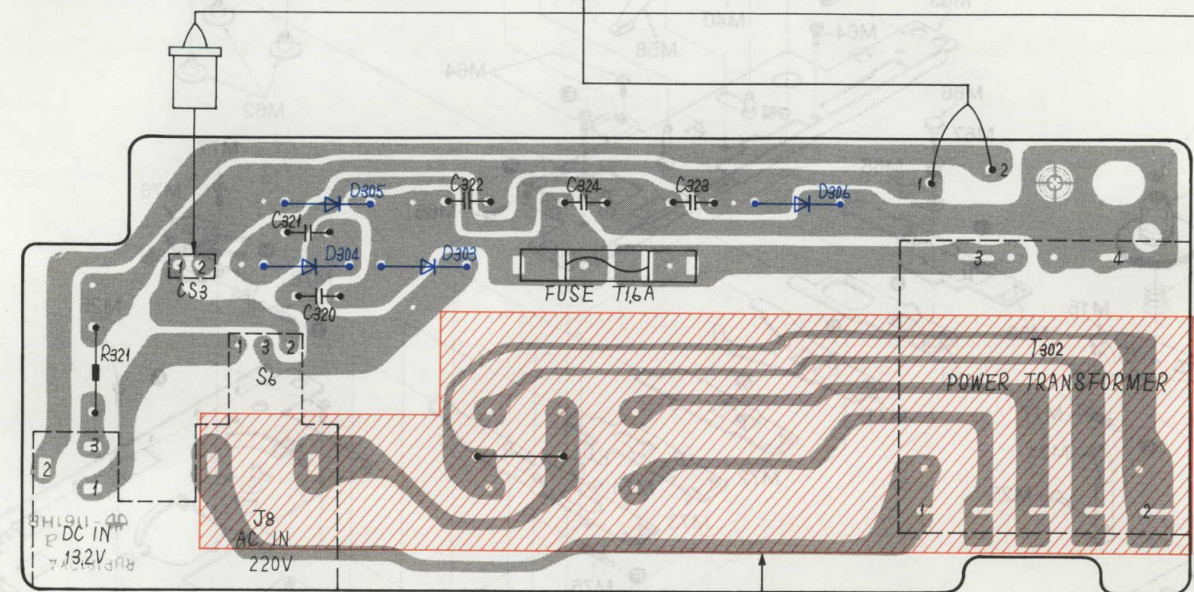
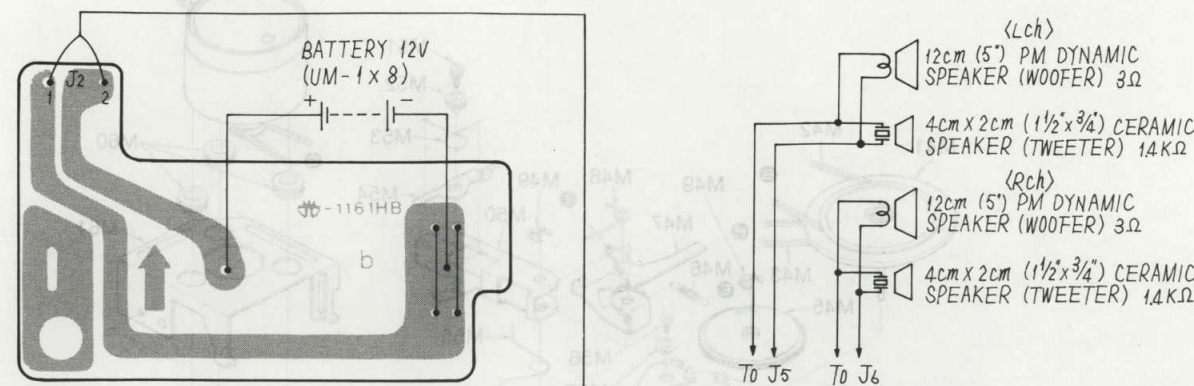
ERX	2	AN	J	2R2
Type	Wattage	Shape	Tolerance	Value (2 2Q)

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

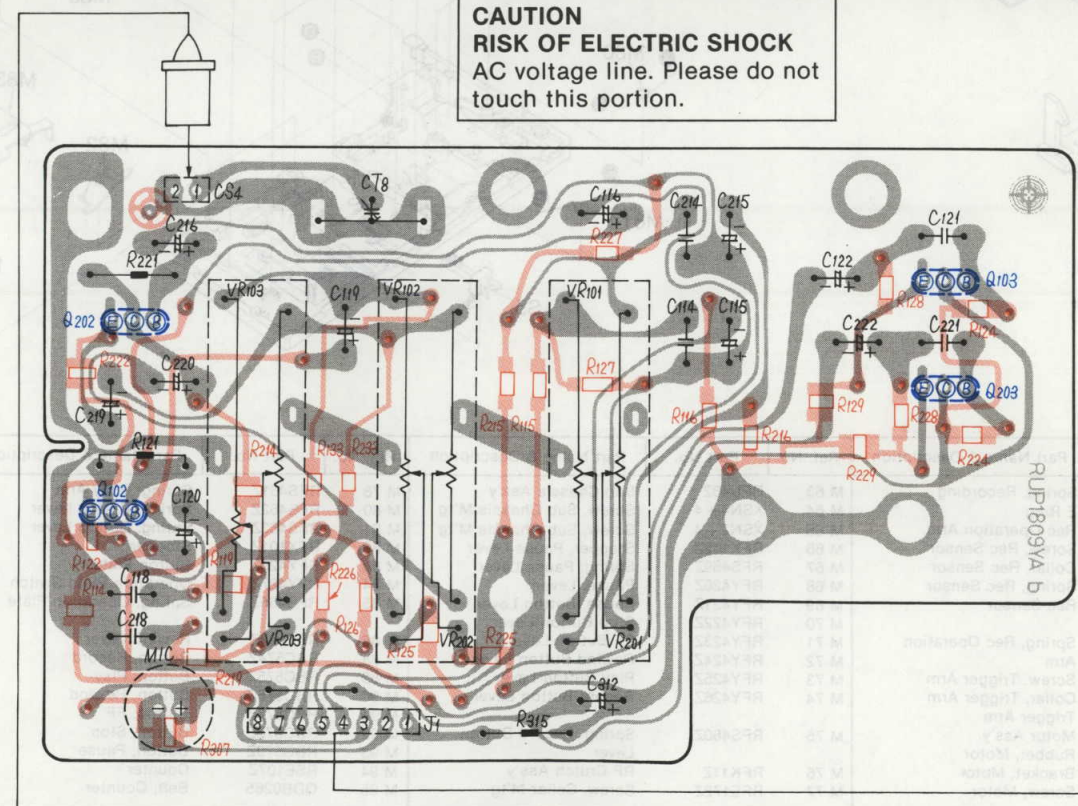
Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.
CAPACITORS							
C 1	ECBS1H102KB	C 106	ECEA1HUR33	C 222	ECEA1HU0R1	R 105	ERD25FJ680
C 2	ECCD1H180KC	C 108	ECBS1E222M			R 106	ERD25FJ103
C 3	ECCD1H102KB	C 109	ECBS1H102KB	C 223	ECEA1HUR47	R 113	ERD25FJ151
C 4	ECCD1H050CC	C 110	ECEAOJU101	C 224	ECEB1H102KBY	R 121	ERD25TJ105
C 5	ECCD1H020C	C 111	ECFT1E223MD	C 225	ECEAOJU101	R 131	ERD25FJ1R0
C 6	ECCD1H470KC	C 112	ECEA1HU010	C 226	ECEA1AU470	R 132	ERD25FJ101
C 7	ECCD1H220KC	C 114	ECCFT1E223MD	C 227	ECEA1E223MD		
C 8	ECKD1H102KB	C 115	ECEA1HU0R1	C 228	ECEA1AU471	R 204	ERD25TJ105
C 10	ECBS1H102KB	C 116	ECEA1HU010	C 229	EQQV1H334JZ	R 205	ERD25FJ680
C 12	ECBS1C103MY	C 117, 118	ECFT1E223MD	C 230	ECKD1H682MD	R 206	ERD25FJ103
		C-119	ECEA1HU010	C 301	ECFT1E153MD	R 213	ERD25FJ151
				C 302	ECEAOJU470	R 221	ERD25TJ105
C 13	ECBT1C223MY	C 120	ECEA1HUR47	C 303	ECEAOJU471		
C 14	ECEAOJU470	C 121	ECKD1H682MD	C 304	ECEA1HU2R2		
C 15	ECEA1CU100	C 122	ECEA1HU0R1	C 305	ECCD1H181K		
C 17	ECEA1HU0R1	C 123	ECEA1HUR47	C 306	ECQP2A27JZ		
C 18, 19, 20, 21	ECFT1E223MD	C 124	ECBS1H102KB	C 307	ECFT1E223MD		
C 22	ECEAOJU101	C 125	ECEAOJU101	C 308	ECEA1AU101		
C 23	ECCD1H330KC	C 126	ECEA1AU470	C 309	ECEA1CU221		
C 24	ECEA1HU010	C 127	ECFT1E223MD	C 310	ECFT1E223MD		
C 25	ECBS1C103MY	C 128	ECEA1AU471	C 311	ECEA1CU100		
C 26	EQGQV1H102KZ	C 129	EQQV1H334JZ	C 312	ECEA1AU101		
C 27	ECKD1H681KB	C 130	ECKD1H682MD	C 314	ECBS1H102KBY		
C 28	ECEA1HU010	C 202	ECEA1HU010	C 315	ECEA1AU101		
C 29	ECEA1HU0R1	C 203	ECKD1H681KB	C 316	ECEA1EU221		
C 30	ECBS1H330JC	C 204	ECKD1H102ZF	C 318	ECEA1EU222		
C 32	ECCD1H470KC	C 205	ECEA1HUR47	C 319	ECEA1EU222		
C 33	ECCD1H120KC	C 206	ECEA1HUR33	C 320, 321, 322, 323			
C 37	ECCD1H100KC	C 208	ECBS1E222MX	C 324	ECKD1H103ZF	Q 1	2SC829 Transistor (Si)
C 39	ECQP2A221JZ	C 209	ECBS1H102KB	C 325	ECKD1H223ZF	Q 101	2SC1684HS Transistor
C 40	EQCP2A361JZ	C 210	ECEAOJU101	C 326	EQCP2A561JZ	Q 102, 103	2SC1684 Transistor
C 41	EQCP2A392JZ	C 211	ECFT1E223MD	C 328	ECBS1H471KBY	Q 104, 105	2SC1685-Q Transistor
C 42	EQCP2A141JZ	C 212	ECEA1HU010	C 329	ECBS1H102KB	Q 201	2SC1684HS Transistor
C 43	ECCD1H150KC	C 213	ECEA1HU0R1	C 330	ECBS1H471KB	Q 202, 203	2SC1684 Transistor
C 44	ECCD1H470KC	C 214	ECFT1E223MD			Q 204, 205	2SC1685-Q Transistor
C 45	ECBS1H181KB	C 215	ECEA1HU0R1			Q 301	2SC1685-Q Transistor
C 102	ECEA1HU010	C 216	ECEA1HU010			Q 303	2SC2001L2 Transistor
C 103	ECBS1H681KB	C 217, 218	ECFT1E223MD			Q 304	2SC1684 Transistor
C 104	ECBS1H102KB	C 219	ECEA1HU010				
C 105	ECEA1HUR47	C 220	ECEA1HUR47				
		C 221	ECKD1H682MD				
RESISTORS							
R 2	ERD25TJ334						
R 12	ERD25FJ151						
R 21	ERD25FJ100						
R 104	ERD25TJ105						
INTEGRATED CIRCUITS							
IC 1	RVITA7358P	IC					
IC 2	AN7220A	IC					
IC 3	RVIBA1332L	IC					
IC 301	RVIM51160L	IC					
IC 302							

RESISTORS

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM MODEL RX-C39L



CAUTION
RISK OF ELECTRIC SHOCK
AC voltage line. Please do not
touch this portion.



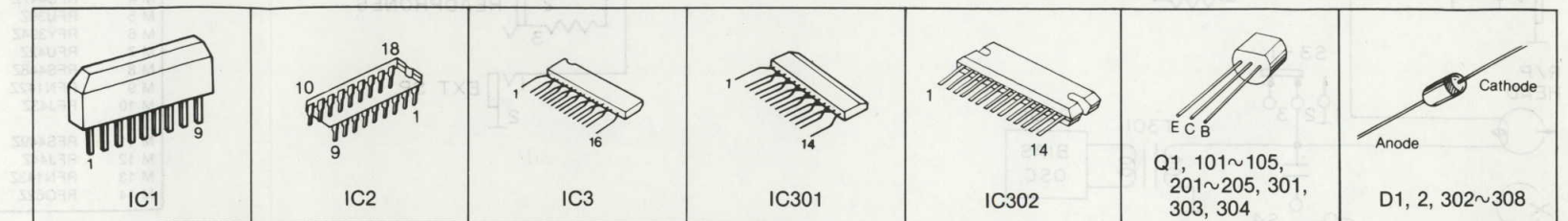
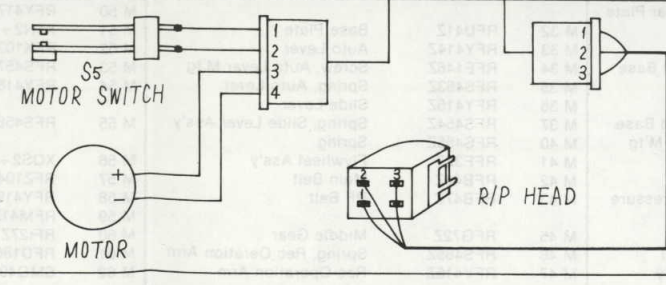
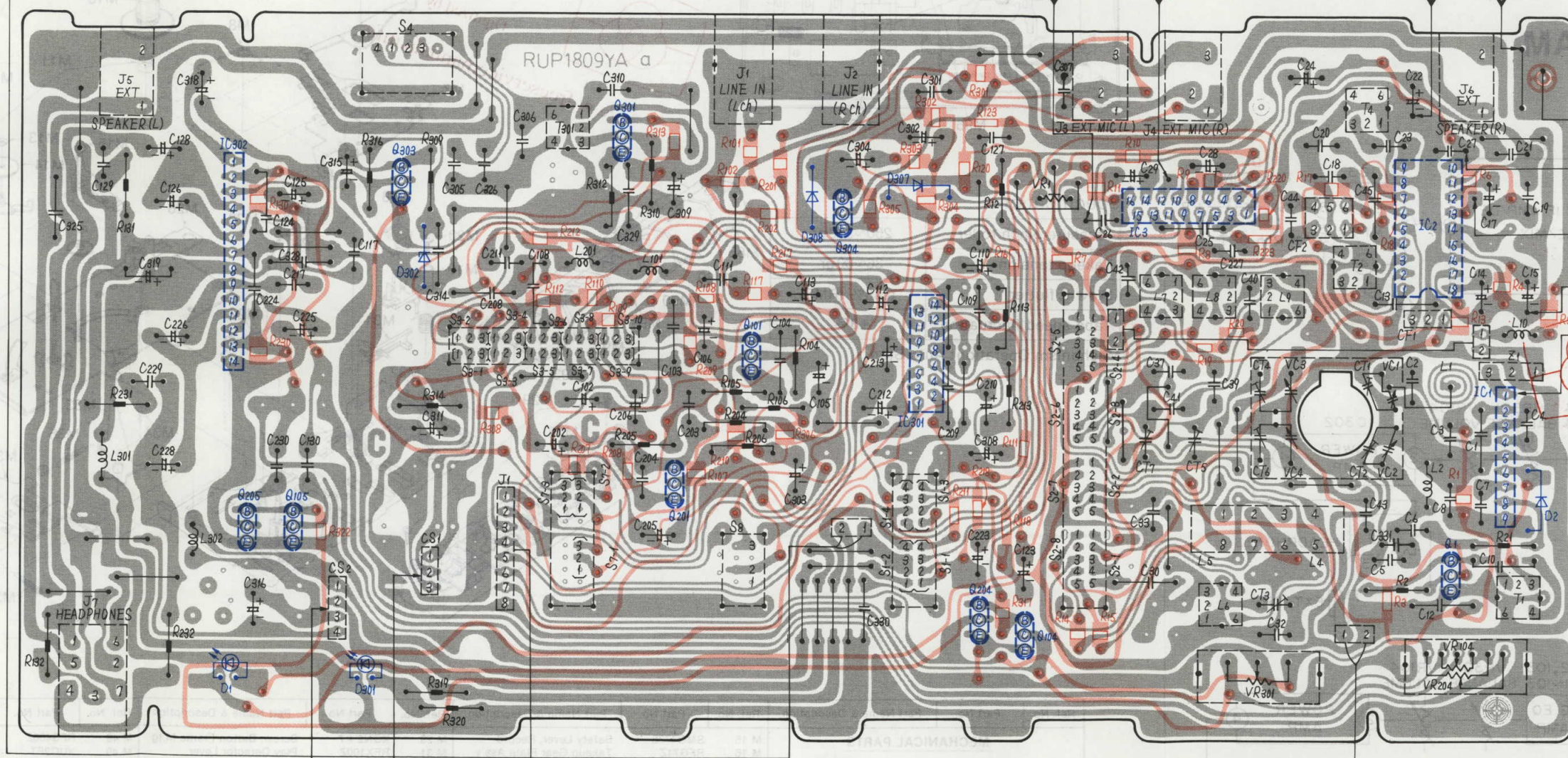
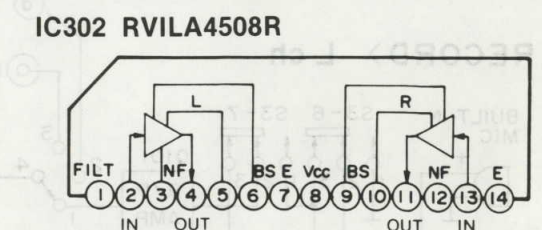
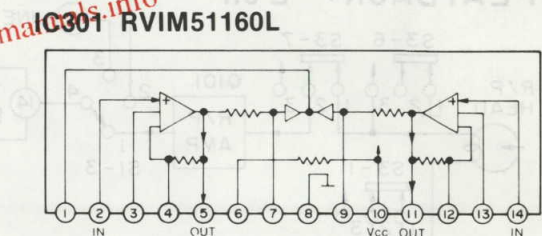
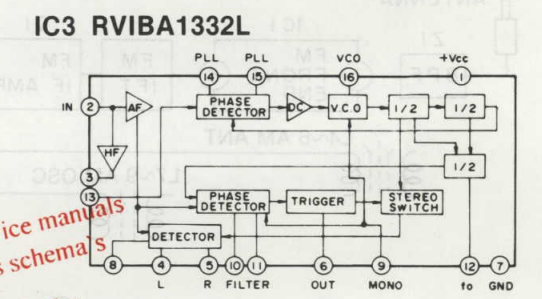
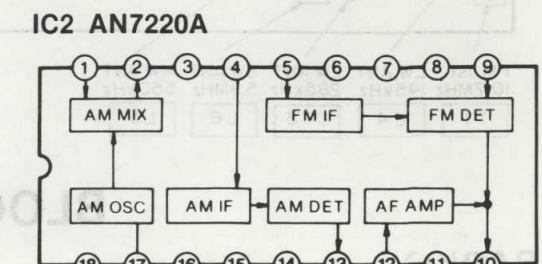
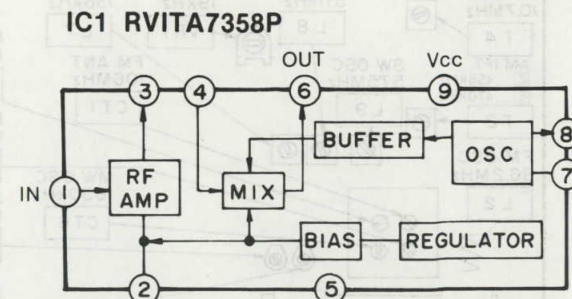
REPLACEMENT PARTS LIST

Important safety notice
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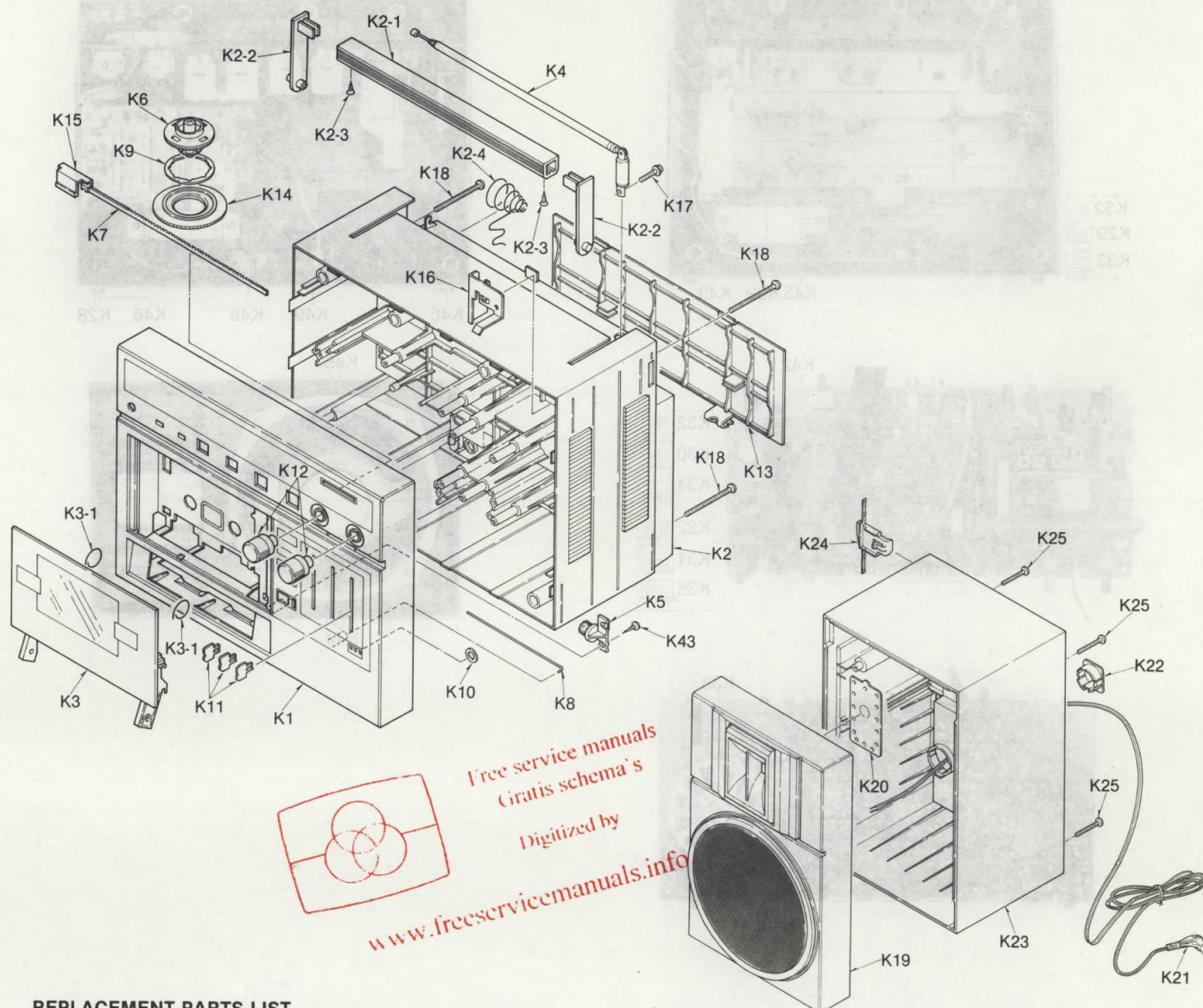
Ref. No.	Part No.	Part Name & Description
<u>DIODES & RECTIFIERS</u>		
D 1	LN022209PH	LED
D 2	MA161	Diode
D 302	RVDTZ9R1B	Diode
D 303, 304, 305, 306	RVDSM1A02	Diode
D 307, 308	MA161	Diode

Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description
		<u>COILS</u>			
L 2	RLD4Y44	Oscillator Coil, FM	T 301	RL09B17	Oscillator Coil, Bias
L 4, 5	RLF6W152	Antenna Coil, LW, MW	T 302 [Z]	Δ RLT5L4G3A	Power Transformer
L 6	RLA3B41	Antenna Coil, SW	T 302 [E]	Δ RLT5L4A3A	Power Transformer
L 7	RL01B12	Oscillator Coil, LW			
L 8	RL02B108	Oscillator Coil, MW			
L 9	RL03B87	Oscillator Coil, SW			<u>VARIABLE CAPACITORS</u>
L 101	RLQZB331K	Choke Coil	VC 1, 2, 3, 4 (CT 1, 2, 4, 6)		
L 201	RLQZB331K	Choke Coil	RCV4RC2V2K		Tuning Capacitor w/Trimmer Capacitor
L 302	RLQZB220K	Choke Coil			
		<u>TRANSFORMERS</u>			<u>TRIMMER CONDENSERS</u>
T 1	RL41B153	I.F. Transformer, FM 1st	CT 3	RCVTZ20F	Trimmer Capacitor
T 2	RL21B153	I.F. Transformer, AM	CT 5	RCVTZ11F	Trimmer Capacitor
T 4	RL41B153	I.F. Transformer, FM 2nd	CT 7	RCVTZ20F	Trimmer Capacitor
			CT 8	RCVMH4UC16	Trimmer, Fine Tuning

Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description
<u>VARIABLE RESISTORS</u>			<u>SWITCHES</u>		
VR 1	QVNB3A00B103	Variable Resistor 10kΩ (B)	S 1	RSS3D13Z	Switch, Function
VR 101	EWANABC15A54	Variable Resistor 50kΩ (A)	S 2	RSS4H02Z	Switch, Band
VR 102, 103	EWANACC15G54	Variable Resistor 50kΩ (G)	S 3	RSH2J04Y	Switch, Record/Playback
VR 104	EWCUA016A54	Variable Resistor 50kΩ (A)	S 4	RSS3A06Z	Switch, Beat Proof
VR 301	EWHN3AF15G15	Variable Resistor 50kΩ (G)	S 7	RSS2D16Z	Switch, Tape
			S 8	RSS2B37Z	Switch, Mode
<u>CERAMIC FILTERS</u>			<u>JACKS</u>		
CF 1	RVF107WMZ	Ceramic Filter	J 1, 2	RJF1081Y	Jack, Line In
CF 2 [Z]	RVFSF455B	Ceramic Filter	J 3, 4, 5, 6		
CF 2 [E]	RVFSF2470B	Ceramic Filter	J 7	RJJ1D20Y	Jack, SP, Mic
			J 7	RJJ1D29Z	Jack, Headphone
			J 8 [Z]	RJJ1F2Z	Jack, AC/DC
			J 8 [E]	RJJ1F3Z	Jack, AC/DC
<u>SPARK KILLER</u>					
Z 1	PXABPM6AW	Component Combination			



CABINET PARTS LOCATIONS



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REPLACEMENT PARTS LIST

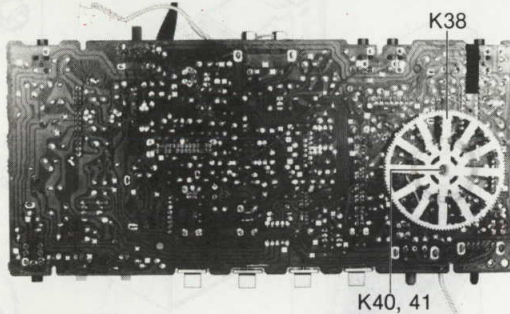
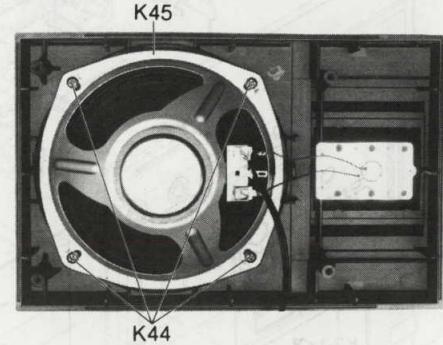
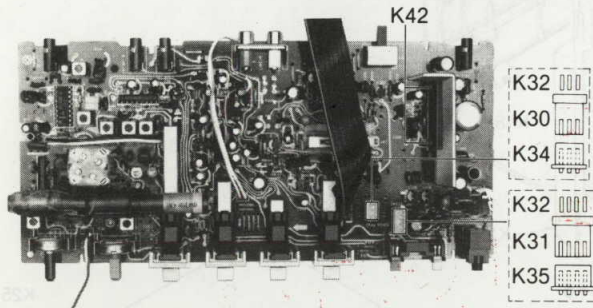
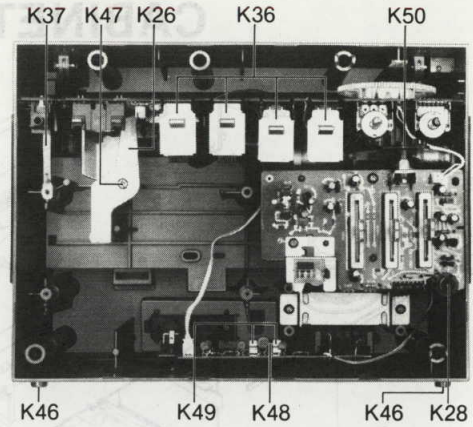
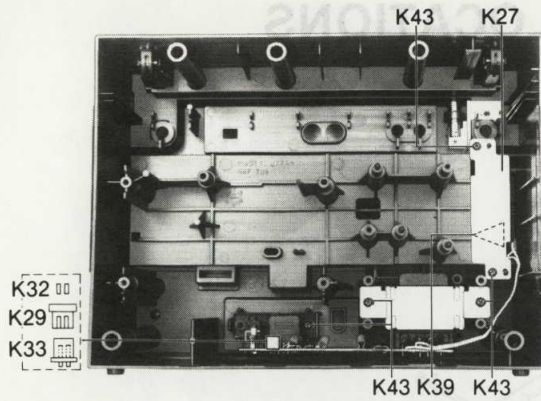
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Notes:

- [ZT] ...For all European areas except United Kingdom. (Metallic Brown)
[ZS] ...For all European areas except United Kingdom. (Silver)
[ZR] ...For all European areas except United Kingdom. (Red)
[ZP] ...For all European areas except United Kingdom. (Pink)
[ZB] ...For all European areas except United Kingdom. (Blue)
[ET] ...For United Kingdom. (Metallic Brown)

Ref. No.	Part No.	Part Name & Description
CABINET PARTS		
K 1 [ZT]	RYM1XC39LZ1	Front Cabinet Ass'y
K 1 [ZS]	RYM1XC39LZ8	Front Cabinet Ass'y
K 1 [ZR]	RYM1XC39LZ2	Front Cabinet Ass'y
K 1 [ZP]	RYM1XC39LZ91	Front Cabinet Ass'y
K 1 [ZB]	RYM1XC39LZ6	Front Cabinet Ass'y
K 1 [ET]	Δ RYM1XC39LZE1	Front Cabinet Ass'y
K 2 [ZT]	RYFXC39LZ1	Rear Cabinet Ass'y
K 2 [ZS]	RYFXC39LZ7	Rear Cabinet Ass'y
K 2 [ZR]	RYFXC39LZ2	Rear Cabinet Ass'y
K 2 [ZP]	RYFXC39LZ91	Rear Cabinet Ass'y
K 2 [ZB]	RYFXC39LZ6	Rear Cabinet Ass'y

Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description
K 2 [ET]	Δ RYFXC39LZE1	Rear Cabinet Ass'y	K 13 [ZB]	RKK273Z6	Cover, Battery Compartment
K 2-1 [ZT][ET]	RKX303Z1	Handle	K 14	RBT182Z	Knob, Tuning
K 2-1 [ZS]	RKX303Z2	Handle	K 15	RDP255Z	Pointer, Dial
K 2-1 [ZR]	RKX303Z3	Handle	K 16	RJT863Z	Terminal, Telescopic
K 2-1 [ZP]	RKX303Z4	Handle	K 17	XYN3 + F15FY	Screw, Telescopic Antenna M'tg
K 2-1 [ZB]	RKX303Z5	Handle	K 18	XTV3 + 40G	Screw, Cabinet M'tg
K 2-2	RKX255Y	Arm, Handle	K 19 [ZT][ET]	RYM2XC39LZ1	Speaker Box Ass'y
K 2-3	XTC3 + 8CFN	Screw, Handle M'tg	K 19 [ZS]	RYM2XC39LZ91	Speaker Box Ass'y
K 2-4	RJC936Z	Spring, Battery +/-	K 19 [ZR]	RYM2XC39LZ2	Speaker Box Ass'y
K 3	RYQXC39LZ	Cassette Slot Ass'y	K 19 [ZP]	RYM2XC39LZ92	Speaker Box Ass'y
K 3-1	RUS594Z	Spring Cassette Tape	K 19 [ZB]	RYM2XC39LZ6	Speaker Box Ass'y
K 4	XEARR175FAY	Telescopic Antenna	K 20	EFBS21A41HA2	Speaker, Tweeter
K 5	RDG5728Z	Gear, Cassette Slot	K 21	RJP0F2Z	Cord, Speaker
K 6	RDG5738Z	Gear, Tuning Knob	K 22	RHR171Z	Bushing
K 7	RDE142Z	Rack, Pointer	K 23 [ZT][ET]	RKF709Y1	Speaker Box Cover, Left
K 8	RUS528Z	Spring, Cassette Slot	K 23 [ZS]	RKF709Y91	Speaker Box Cover, Left
K 9	RUS548Z	Spring, Gear	K 23 [ZR]	RKF709Y2	Speaker Box Cover, Left
K 10	RHG728Z	Rubber, Microphone	K 23 [ZP]	RKF709Y92	Speaker Box Cover, Left
K 11	RBD265Z	Knob, Graphic Equalizer	K 23 [ZB]	RKF709Y6	Speaker Box Cover, Left
K 12	RBN372V	Knob, Balance, Volume	K 23 [ZT][ET]	RKF709Z1	Speaker Box Cover, Right
K 13 [ZT][ET]	RKK273Z1	Cover, Battery Compartment	K 23 [ZS]	RKF709Z91	Speaker Box Cover, Right
K 13 [ZS]	RKK273Z92	Cover, Battery Compartment	K 23 [ZR]	RKF709Z2	Speaker Box Cover, Right
K 13 [ZR]	RKK273Z2	Cover, Battery Compartment	K 23 [ZP]	RKF709Z92	Speaker Box Cover, Right
K 13 [ZP]	RKK273Z91	Cover, Battery Compartment	K 23 [ZB]	RKF709Z6	Speaker Box Cover, Right
			K 24	RGE76Y	Stopper, Left



REPLACEMENT PARTS LIST

Ref. No.	Part No.	Part Name & Description
K 24	RGE76Z	Stopper, Right
K 25	XTV3 + 18G	Screw, Cover M'tg
K 26	RUB302Z	R/P Lever
K 27	RUV715Z	Cover, Battery
K 28	RJM154Z	Microphone
K 29	RJS2L3Z	Socket 2 Pin
K 30	RJS3L3Z	Socket, 3 Pin
K 31	RJS4L3Z	Socket, 4 Pin
K 32	RJT707Z	Terminal, Socket
K 33	RJP2G4Y	Plug 2 Pin
K 34	RJP3G4Y	Plug 3 Pin
K 35	RJP4G4Y	Plug 4 Pin
K 36	RBD264Z	Knob, Band, Function etc.
K 37	RJT864Z	Terminal, Earth
K 38	RDG5739Z	Drum Gear
K 39	RJC511Z	Spring, Battery Side
K 40	XSN26 + 6	Screw, Drum Gear M'tg
K 41	XWA26B	Washer, Drum Gear M'tg
K 42	XTV3 + 8F	Screw, Heat Sink M'tg
K 43	XTV3 + 12G	Screw, Circuit Board M'tg
K 44	XTV3 + 10G	Screw, Woofer M'tg
K 45	EAS12P233SF	Speaker, Woofer
K 46	RHG338Z	Rubber, Cushion
K 47	XTWS3 + 10Q	Screw, R/P Lever M'tg
K 48	△ XBA2C16TR0	Fuse
K 49	QTF1054	Fuse Holder
K 50	RBT169X	Fine Tuning

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
ACCESSORIES		
[Z] △	RJA20Z	Power Cord, AC
[E] △	RJA43Z	Power Cord, AC
	RQX4478Z	Instruction Book
PACKINGS		
	RPN4481Z	Pad
	RPN4482Z	Pad
	RPK1876Z	Gift Box
	RPP624Z	Polyethylene Cover

Service Manual

Radio Cassette

RX-C39
RX-C39F
RX-C39L

Supplement

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

Model No.	Order No.
RX-C39	GAD84075448A8
RX-C39F	GAD84085453C3/GAD84095464A3
RX-C39L	GAD84065435C2/GAD84085459A2/GAD84125485A2

This is the Service Manual for the all areas.

Free service manuals
 Gratis schema's

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CHANGED

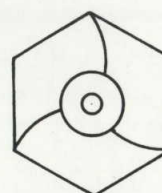
■ PARTS COMPARISON TABLE:

Ref. No.	Description	Part Numbers		Remarks
		Original	Supplement	
M12	Takeup Reel Table Ass'y	RFJ44Z	RFJ53Z	

Front View



RFJ44Z



RFJ53Z

Service Manual

Supplement

Radio Cassette
RX-C39
RX-C39F
RX-C39L

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

Model No.	Order No.
RX-C39	GAD84055417C1 / GAD84075448A8
RX-C39F	GAD84085453C3 / GAD84095464A3
RX-C39L	GAD84065435C2 / GAD84085459A2 / GAD84125485A2

This is the Service Manual for the all areas.

PARTS COMPARISON TABLE:

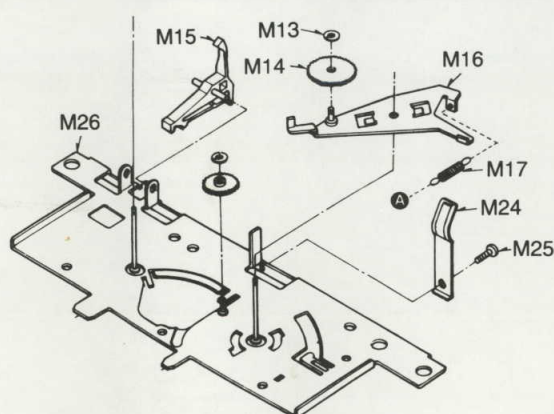
Please revise the original parts list in the Service Manual to conform to the changes shown herein. If new part numbers are shown, be sure to use them when ordering parts.

NOTE:

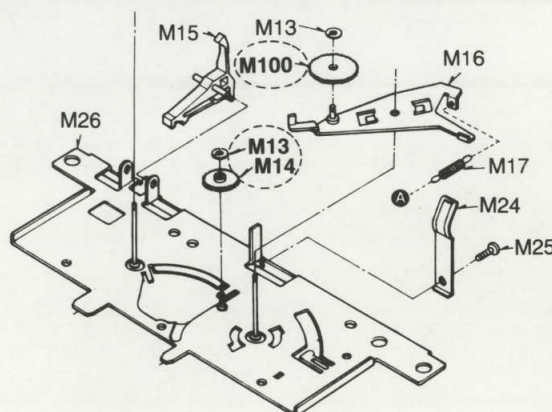
- [Z]...For all European areas except United Kingdom.
[E]...For United Kingdom.
[G]...For F.R. Germany.

Ref. No.	Description	Part Numbers		Remarks
		MISPRINT	CORRECTION	
S5 [Z][E][G]	Switch, Motor	—	RFA52Z	
C311 [G]	Capacitor	ECCD1H050CC (50 V, 5 pF)	ECCD1H030C (50 V, 3 pF)	
M100	Gear, Take up roller	—	RFG61Z	

MECHANISM PARTS LOCATIONS



CORRECTION



National / Panasonic

Matsushita Engineering and Service 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
Carolina, Puerto Rico 00630

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

H.S Printed in Japan (F)

Technical Information

Radio Cassette RX-C39, RX-C39L

Please use this information along with the original service manuals for the below models, and change the informations with the previous Technical Information (ORDER NO. GAD84125479T0).

Model No.	Order No.
RX-C39	GAD84055417C1 and GAD84075448A8
RX-C39L	GAD84065435C2 and GAD84085459A2

Fig. 1

Free service manuals
Gratis schema's

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Either A type or B type of IC (RVIM51160L) is used in each RX-C39 series. Therefore, confirm this as follows.

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1. Confirmation of IC (A type or B type)

This IC is distinguished by the numeral or the alphabet at the third figure of its lot No.

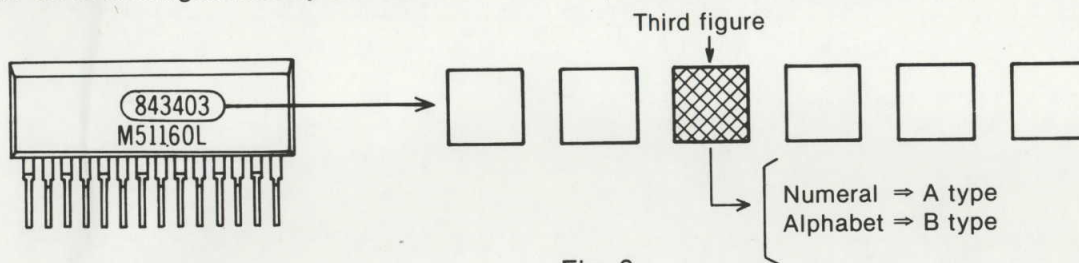


Fig. 2

- When the A type IC is used, confirm the electrolytic capacitor if it is $220\mu\text{F}$ or not.
- When the capacitor is not $200\mu\text{F}$, change the capacitors with $220\mu\text{F}$. (Refer to Fig. 3)

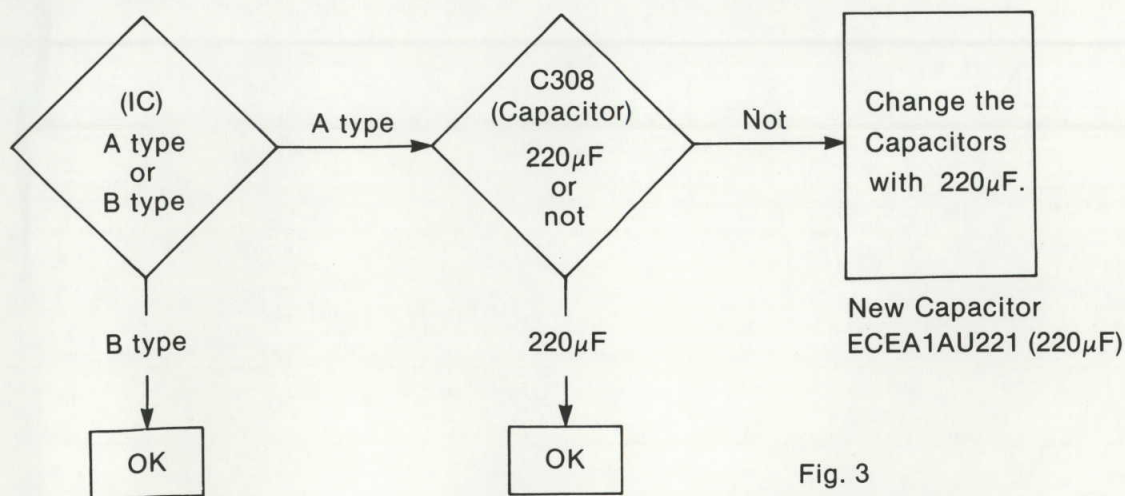


Fig. 3

Service Manual

Supplement

Radio Cassette
RX-C39
RX-C39F
RX-C39L

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

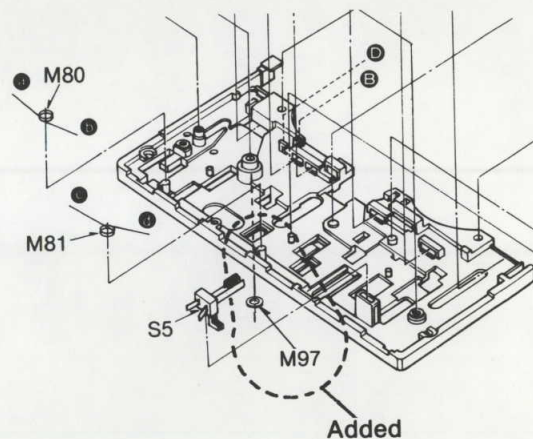
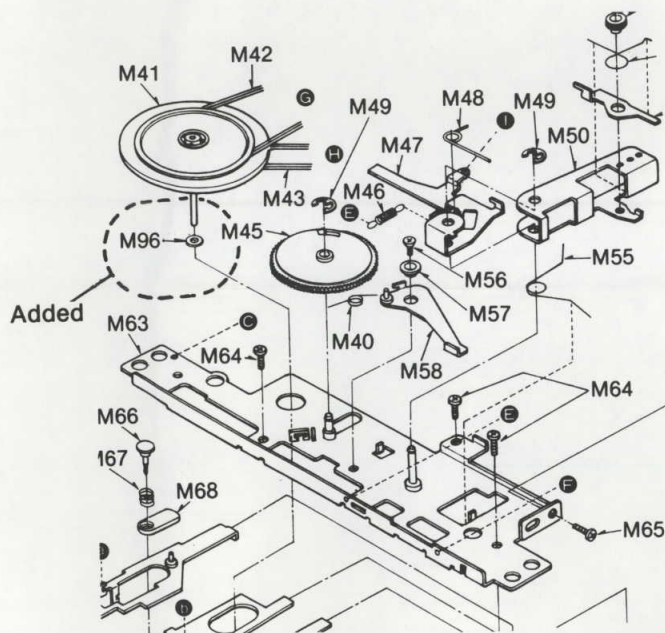
This is the Service Manual for the all areas.

Model No.	Order No.
RX-C39	GAD84055417C1/GAD84075448A8/GAD8509536A1
RX-C39F	GAD84085453C3/GAD84095464A3 GAD8604405A3/GAD8605408A3
RX-C39L	GAD84065435C2/GAD84085459A2/GAD84125485A2

PARTS COMPARISON TABLE:

Please revise the original parts list in the Service Manual to conform to the changes shown herein.
If new part numbers are shown, be sure to use them when ordering parts.

Ref. No.	Description	Part Numbers	Remarks
M96	Washer, Flywheel	RFN172Z	Added
M97	Washer, Flywheel M'tg	RFN123Z	Added



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, P.R. 00920

Panasonic Hawaii Inc.
91-238 Kauh 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 (H)

Service Manual

Supplement

FM-AM-FM Stereo
Radio Cassette Recorder

Radio Cassette

RX-C39
RX-C39F
RX-C39L

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

Model No.	Order No.
RX-C39	M/C ... GAD84055417C1 / MZ ... GAD84095448S2
RX-C39F	X/L ... GAD84085453C3
RX-C39L	Z/E ... GAD84065435C2 / ZG ... GAD84085459A2

This is the Service Manual
for the all areas.

Notes:

- There are four types of M32, and as some parts vary slightly in shape, they are not interchangeable.
- They are not interchangeable between old and new type for M33 and M66.
- When replacing the old M32, M33 or M66 part, replace parts M32, M33, M66, M67 and M83 with newest parts at the same time.
- The part No. for the kit containing the newest M32, M33, M66, M67, and M83 parts is **RUXC34M**.
- However, please check repair parts M32, M33, M34, M66, M67 and M83, and if they are the newest shapes, order the parts by the individual new unit part number.

CHANGES

■ PARTS COMPARISON TABLE:

Ref. No.	Description	Change of Part No.		Remarks
		OLD (Original)	NEW	
M32	BASE PLATE	RFU41Z	RFU61Z	
M33	AUTO LEVER	RFY414Z	RFY549Z	
M34	Screw, Auto Lever M'tg	RFE146Z	—	DELETED
M66	Stopper, Pause Lever	RFX102Z	RFX122Z	
M67	Spring, Pause Lever	RFS459Z	RFS512Z	
M83	Button Plate	RFY429Z	RFY429Y	



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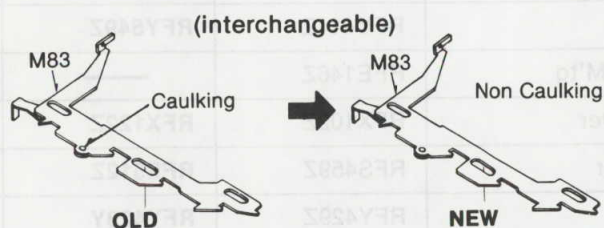
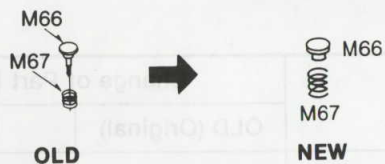
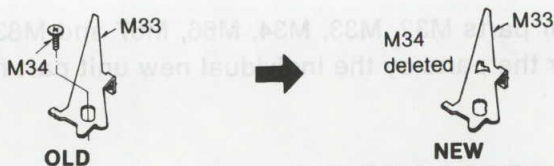
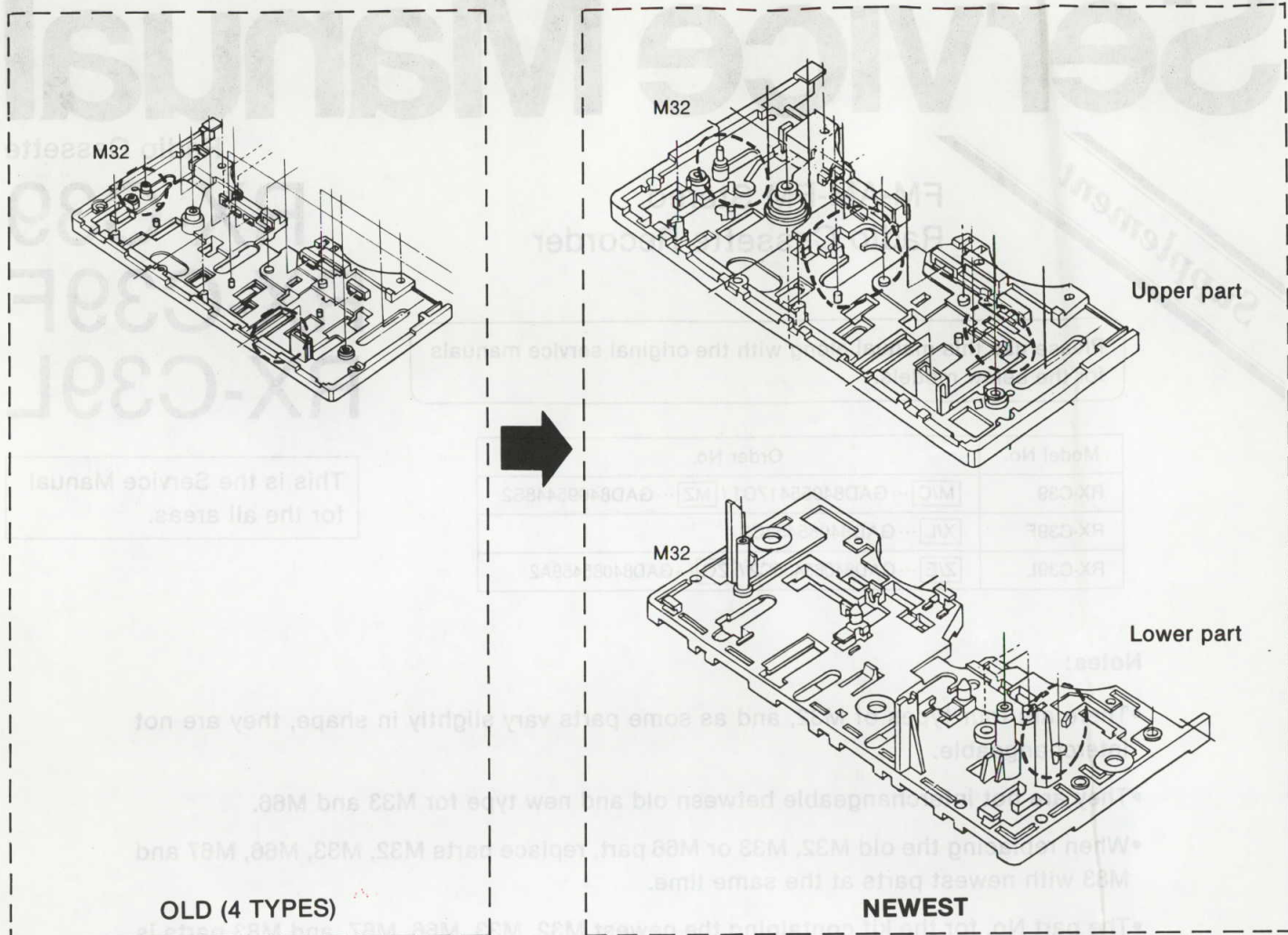
Matsushita Services Company
50 Meadowland Parkway,
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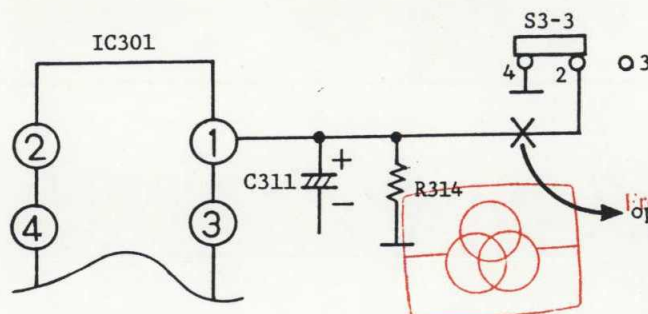
General Audio	Quick Service Manual		Ref. No.: GA-86-003
	Model: RX-C39		

Symptom

The sound is distorted on Play and Radio sound

Cause

The foil between ① pin of IC301 and ② terminal of SW (S3-3) was open as shown below.



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Repair Method

Connect the jumper wire between ① pin of IC301 and ② terminal of SW (S3-3)

Remarks