Service Manual

Stereo Radio Cassette Recorder

Radio Cassette

RX-FS435

Colour

(K) Black Type

Area

Suffix for Model No.	Area	Colour
(GC)	Middle Near East	(17)
(GU)	Latin America/Asia	(K)

TAPE DECK: LRD27-22 MECHANISM SERIES

■ Specifications

General

Power Output

Speaker

Dimensions

Weight

Notes:

Power Requirement

Power Consumption

AC; 110~127/200~220/230~250V, 50/60Hz Battery; 9V, six (UM-1) R20/LR20 batteries

15

30W PMPO

2 X Woofers; 10cm (2.7 Ω)

2 X Tweeters; 1.5cm

Jacks
Output HE

1. Weights and dimensions shown are approximate.

2. Design and specifications are subject to change without notice.

HEADPHONES; (32Ω, Ø3.5) 460 (W) x 149 (H) x149 (D) mm

2.4 kg without batteries.

■ Radio Section

Radio Frequency Range

Intermediate Frequency

Sensitivity

FM; 88 ~ 108MHz MW; 530 ~ 1605kHz SW1; 2.3 ~ 7.0MHz

SW2; 7.0 ~ 22.0MHz FM; 10.7MHz

AM; 455kHz

FM: 10.5dB/50mW MW: 51dB/m/50mW

SW1: 51dB/m/50mW SW2: 25dB/50mW

■ Tape Deck Section

Frequency Response Recording System Tape Speed Monitor System Track System

70 ~ 11,000Hz AC bias, Magnet erase 4.8cm/s

Variable sound monitor 4-track 2-channel stereo recording and playback

△ WARNING

This service information is designed for experiense repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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What to do when the tape is entangled When the tape is caught in the pinch roller, etc. Release the tape by turning the pulley on the motor with a screwdriver in the direction of arrow.

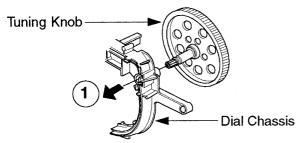
■ BEFORE USE

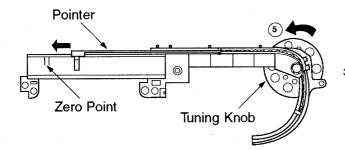
Be sure to disconnect the mains cord before adjusting the voltage selector. Use a minus(–) screwdriver to set the voltage selector (on the rear panel) to the voltage setting for the area in which the unit will be used. (If the power supply in your area is 117V or 120V, set to the "127V" position.)

Note that this unit will be seriously damaged if this setting is not made correctly. (There is no voltage selector for some countries; the correct voltage is already set.)

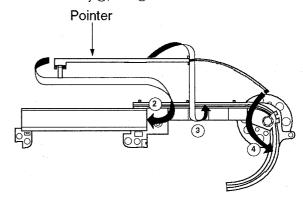
■ Dial Chassis Assembly

1. Install the tuning knob in the dial chassis in the direction of arrow ①.

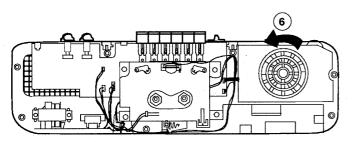




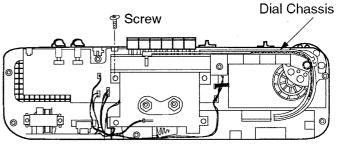
2. Install the pointer in the direction arrow ②, follow by ③, then ④.



3. Turn the tuning knob in the direction of arrow (§) to the zero point.

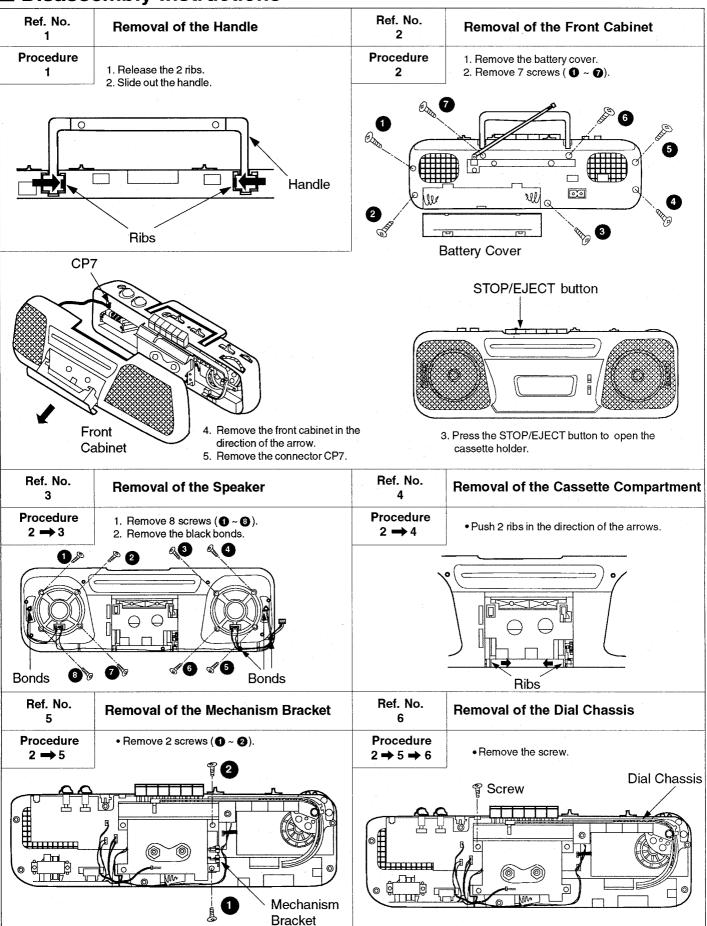


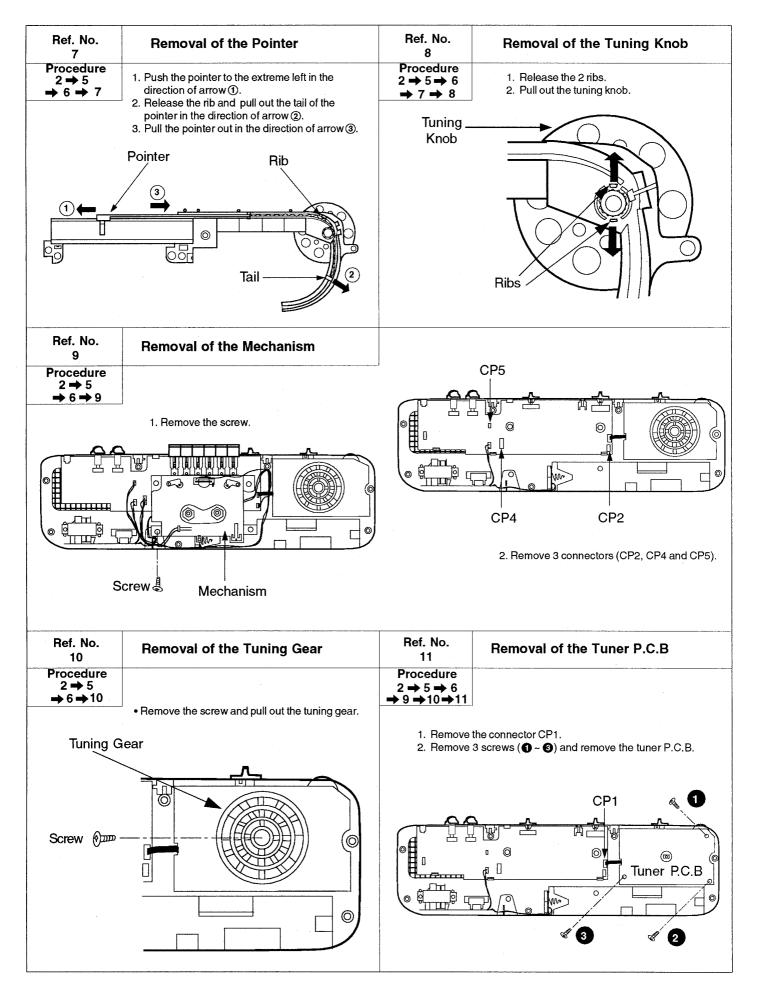
4. Turn the tuning gear fully in the direction of arrow ⑥.

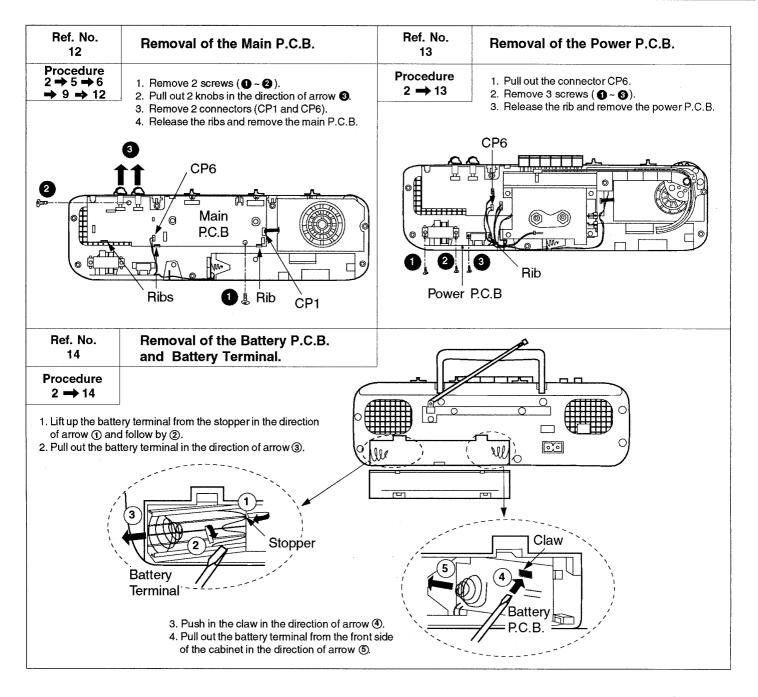


Install the dial chassis in the cabinet and then replace the screw.

■ Disassembly Instructions







Measurements and Adjustments

■ ALIGNMENT INSTRUCTIONS

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

- 1. Set volume control to maximum.
- 2. Set tone control to center.
- 3. Set band switch to FM,MW,SW1or SW2.
- 4. Set function selector to RADIO or TAPE/OFF.

- 5. Set power source voltage to 9V DC.
- 6. Set FM MODE switch to STEREO.
- 7. Output of signal generator should be no higher than necessary to obtain an output reading.

■ TAPE SPEED ALIGNMENT

TEST TAPE	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
QZZCWAT (3 kHz)	Headphone Jack (32Ω) (Fabricate the plug as shown in Fig.2 and then connect the lead wires of the plug to the measuring instrument.	Motor VR (As shown in Fig 5)	3000 <u>+</u> 90 Hz	Playback mode

■ HEAD AZIMUTH ALIGNMENT

TEST TAPE	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
QZZCAB (8 kHz, -20dB)	Headphone Jack (32Ω) Fabricate the plug as shown in Fig.2 and then connect the lead wires of the plug to the measuring instrument.	Azimuth screw (As shown in Fig 6)	Maximum output	Playback mode

■ MW, SW1 and SW2 ALIGNMENT

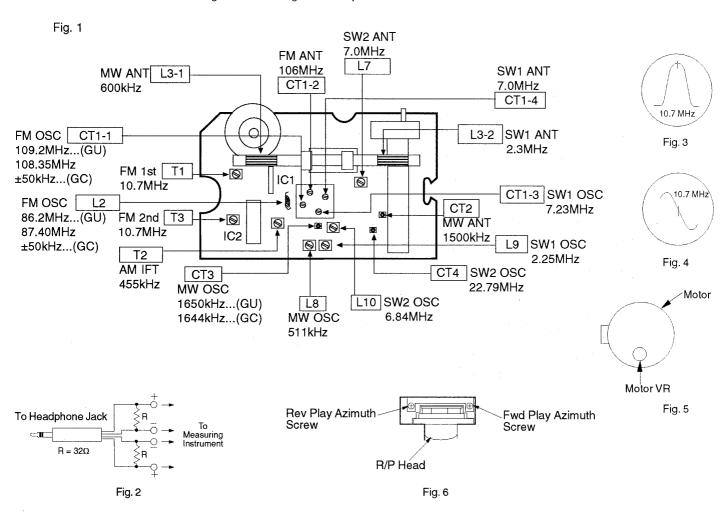
	BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or	ADJUSTMENT (Shown in Fig. 1)	REMARKS
		CONNECTIONS	FREQUENCY	SETTING	OSCILLOSCOPE)	(Onowithin 1g. 1)	
				AM-IF A	LIGNMENT		
)	MW	Fashion a loop of several turns of wire and radiate signal into loop of receiver.	455kHz 30% Mod. at 400Hz	Point of non- interference.(on/ about 600kHz)	Headphone Jack (32Ω) Fabricate the plug as shown in Fig.2 and then connect the lead wires of the plug to the measuring instrument.	T2 (AM IFT)	Adjust for maximum output.
				MW-RF	ALIGNMENT	* .	
:)	MW	H	511kHz	Tuning capacitor fully closed.	tt.	L8 (MW OSC Coil)	п
3)	MW	II	(GU)1650kHz (GC)1644kHz	Tuning capacitor fully open.	II	CT3 (MW OSC Trimmer)	tt .
1)	MW	II.	600kHz	Tune to signal	11	[*1] L3-1 (MW ANT Coil)	Adjust for maximum output. Adjust L3-1 by moving coil along the ferrite core.
5)	MW	п	1500kHz	11	п	CT2 (MW ANT Trimmer)	Adjust for maximum output. Repeat steps (2)~(5)
	[*1] Fix a	ntenna coil with wax after co	mpleting alignmen	t.			
				SW1-RF	ALIGNMENT		
6)	SW1	11	2.25MHz	Tuning capacitor fully closed.	II	L9 (SW1 OSC Coil)	Adjust for maximum output.
7)	SW1	II	7.23MHz	Tuning capacitor fully open.	II	CT1-3 (SW1 OSC Trimmer)	. n
в)	SW1	11	2.3MHz	Tune to signal	н	[*2] L3-2 (SW1 ANT Coil)	Adjust for maximum output. Adjust L3-2 by moving coil along the ferrite core.
9)	SW1	11	7.0MHz	II	н	CT1-4 (SW1 ANT Trimmer)	Adjust for maximum output. Repeat steps (6)~(9)
	[*2] Fix a	ntenna coil with wax after co	mpleting alignmen	t.			
				SW2-RF	ALIGNMENT		
0)	SW2	Connect to test point	6.84MHz	Tuning capacitor fully closed.	и	L10 (SW2 OSC Coil)	Adjust for maximum output.
1)	SW2	TP8through ceramic capacitor (10pF). Negative side to test	22.79MHz	Tuning capacitor fully open.	II	CT4 (SW2 OSC Trimmer)	н
2)	SW2	point TP7.	7.0MHz	Tune to signal	u	L7 (SW2 ANT Coil)	Adjust for maximum output. Repeat steps (10)~(12).

■ FM ALIGNMENT

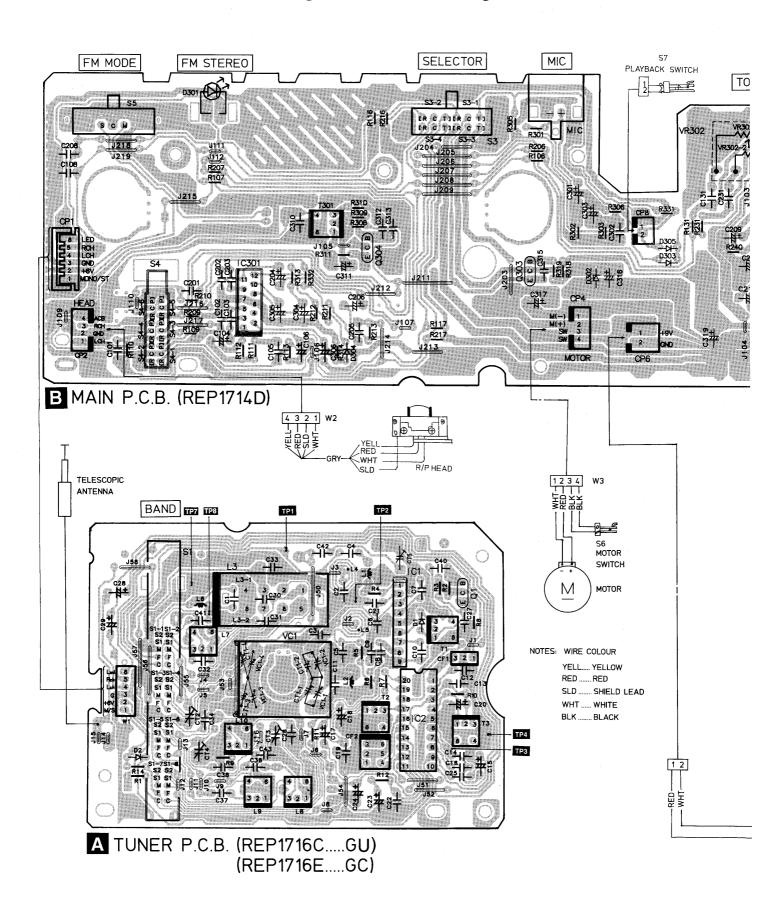
SIGNAL GENERA SWEEP GENER		RADIO DIAL	INDICATOR (ELECTRONIC	ADJUSTMENT	DEMADES	
CONNECTIONS	FREQUENCY	SETTING	OSCILLOSCOPE)	(Snown in Fig. 1)		
		FM-IF A	LIGNMENT			
High side thru. 0.001µF to test point TP1. Negative side to test point TP2.	10.7MHz (SWP)	Point of non- interference.(on/ about 90MHz)	Connect vert. amp. of scope to test point TP3. Negative side to test point TP4.	T1 (FM 1st IFT)	Wave form is shown in Fig. 3	
u	H	H	II · ·	T3 (FM 2nd IFT)	Wave form is shown in Fig. 4.	
		FM-RF A	ALIGNMENT		,	
4			Headphone Jack (32Ω)			
Connect to test point	(GU)86.2MHz (GC)87.40MHz ±50kHz	Variable capacitor fully closed.	Fabricate the plug as shown in Fig.2 and then connect the lead wires of the plug to the measuring instrument.	L2 (FM OSC Coil)	[*3] Adjust for maximum output.	
TP1 through FM dummy antenna. Negative side to test point TP2.			u	CT1-1(FM OSC Trimmer)	n	
	106MHz	Tune to signal	u	CT1-2 (FM ANT	Adjust for maximum output. Repeat steps (15)~(17).	
	SWEEP GENER CONNECTIONS High side thru. 0.001µF to test point TP1. Negative side to test point TP2. " Connect to test point TP1 through FM dummy antenna. Negative side	SWEEP GENERATOR CONNECTIONS FREQUENCY High side thru. 0.001 µF to test point 10.7MHz (SWP) 10.7MHz (SWP) 10.7MHz (SWP) (GU)86.2MHz (GC)87.40MHz ±50kHz TP1 through FM dummy antenna. Negative side to test point TP2. (GU)109.2MHz (GC)108.35MHz ±50kHz	SWEEP GENERATOR CONNECTIONS FREQUENCY FM-IF A High side thru. 0.001 µF to test point TP1. Negative side to test point TP2. " GU)86.2MHz (GC)87.40MHz ±50kHz Connect to test point TP1 through FM dummy antenna. Negative side to test point TP2. GU)109.2MHz (GC)108.35MHz ±50kHz Variable capacitor fully closed. Variable capacitor fully closed. Variable capacitor fully open.	SWEEP GENERATOR CONNECTIONS FREQUENCY FREQUENCY FM-IF ALIGNMENT High side thru. 0.001 μF to test point 10.7MHz (SWP) I I I I I I I I I I I I I I I I I I I	SWEEP GENERATOR CONNECTIONS FREQUENCY FRADIO DIAL SETTING (ELECTRONIC VOLTMETER or OSCILLOSCOPE) FM-IF ALIGNMENT FM-IF ALIGNMENT Point of non-interference.(on/about 90MHz) " " " T3 (FM 1st IFT) FM-RF ALIGNMENT FABricate the plug as shown in Fig.2 and then connect the lead wires of the plug to the measuring instrument. GU)109.2MHz antenna. Negative side to test point in Fig.2 and then connect the lead wires of the plug to the measuring instrument. GU)109.2MHz GU)109.2MHz antenna. Negative side to test point in Fig.2 and then connect the lead wires of the plug to the measuring instrument. CT1-1 (FM OSC Trimmer)	

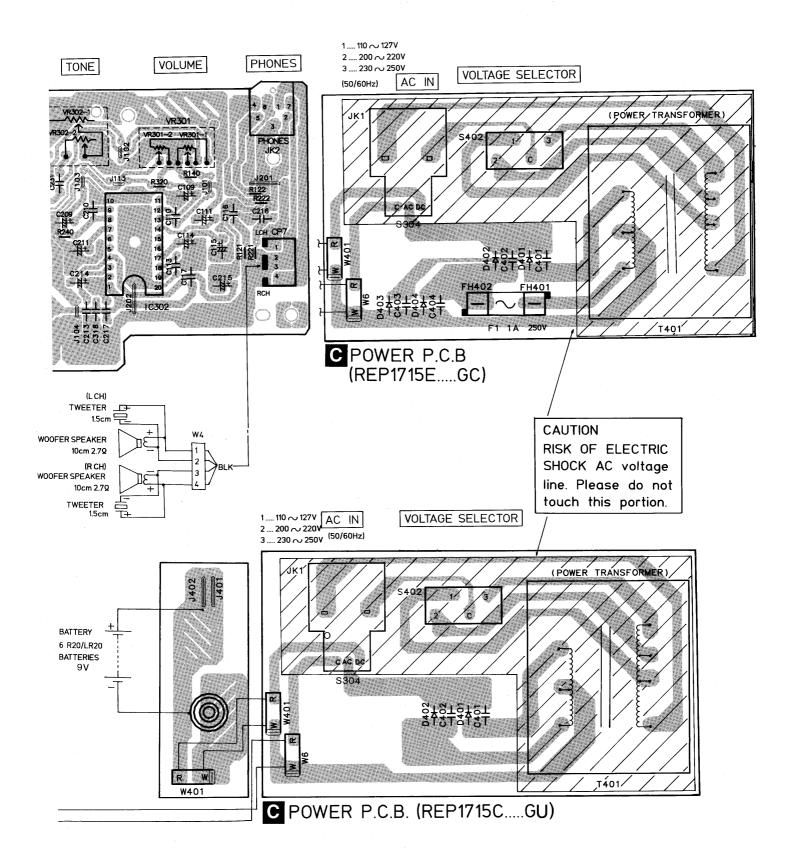
ALIGNMENT POINT

• Please refer to Circuit Board and Wiring Connection Diagram for test point locations.

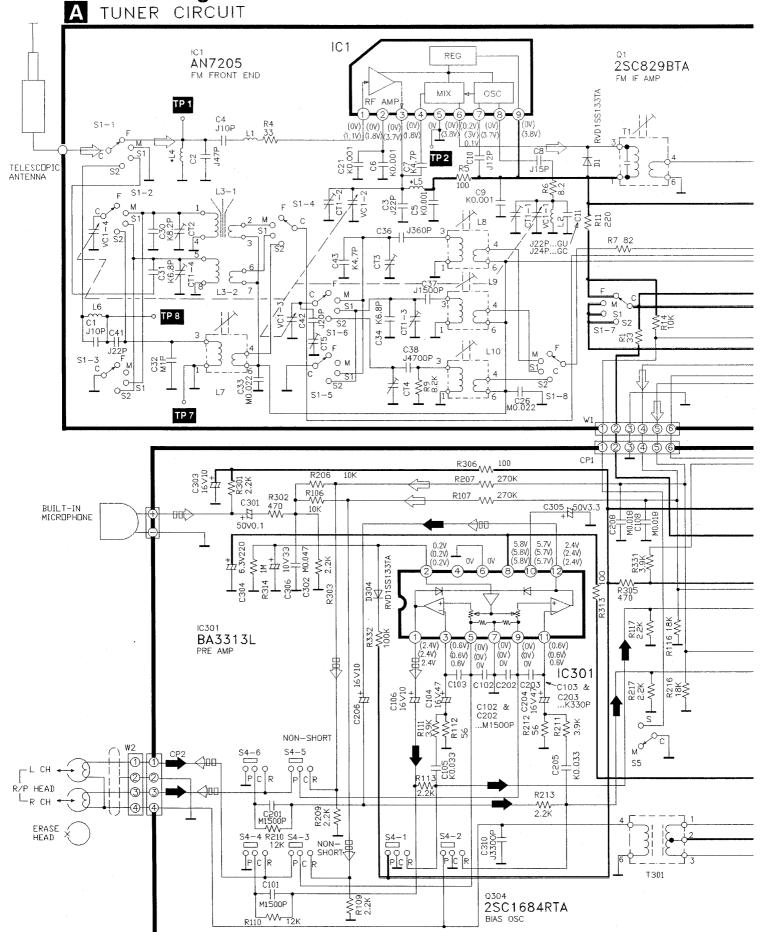


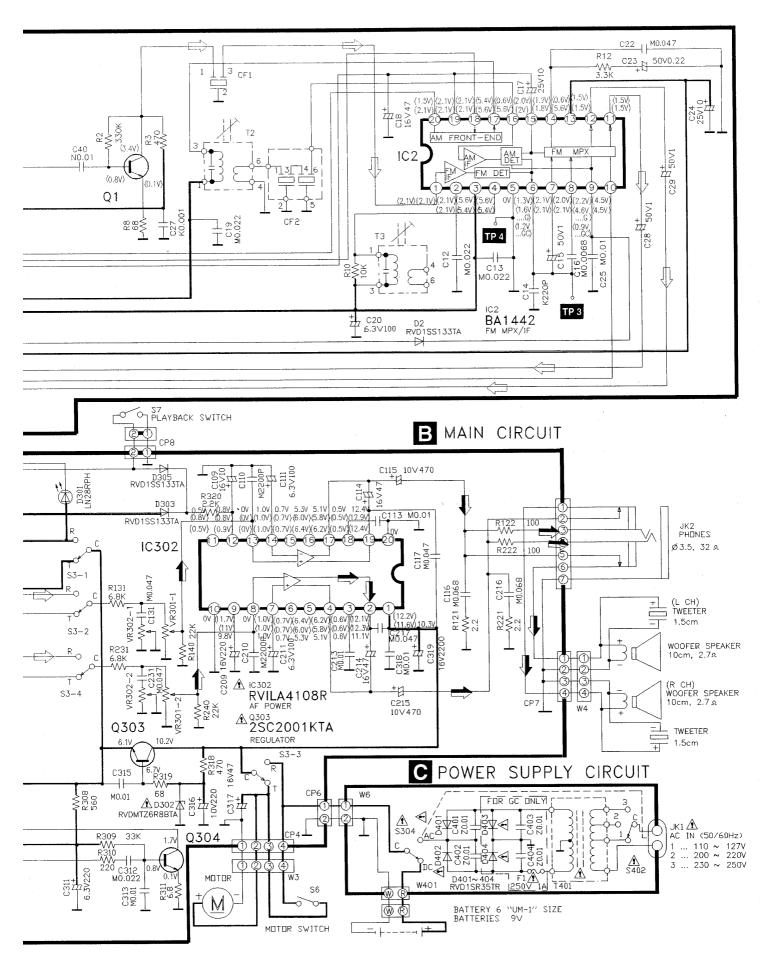
■ Circuit Board and Wiring Connection Diagram





■ Schematic Diagram





RX-FS435

NOTES:

S1-1 ~ S1-8
 Band select switch in "FM" position.
 (F...FM, M...MW, S1...SW1, S2...SW2)

• S3-1 ~ S3-4 : Function select switch in "TAPE/OFF" position.

(T...TAPE/OFF, R...RADIO)

• S4-1 ~ S4-6 : Record/Playback switch in "PLAYBACK" position.

(R...RECORD, P...PLAYBACK)

S5 : FM MODE select switch in "MONO" position.

(S...STEREO, M...MONO)

S6 : Motor switch in "OFF" position.
S7 : Playback switch in "OFF" position.
S304 : AC/DC select switch in "DC" position.

S402 : Voltage selector in "110 ~ 127V" position.

VR301-1 ~ VR301-2 : Volume control VR.
 VR302-1 ~ VR302-2 : Tone control VR.

• VH302-1 ~ VH302-2 . Totle control VH.

Battery Current : Radio 70mA (FM, min volume)

470mA (FM, max volume) 60mA (AM, min volume) 330mA (AM, max volume)

Tape 150mA (volume min)

645mA (volume max)

Recording 590mA (FM, max volume)

420mA (AM, max volume)

• DC voltage measurements are taken with electronic voltmeter from negative terminal of battery.

• *L4 and *L5 are printed coils formed on the P.C.B and thus not found in the Replacement Parts List.

• No mark ... Playback < > ... FM () ... AM (MW,SW1,SW2)

· Important Safety Notice:

Component identified by have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

This schematic diagram may be modified at anytime with the development of new technology.

 ${}_{\square}$ \rangle ... FM SIGNAL LINE

... PLAYBACK SIGNAL

... RECORD SIGNAL LINE

... +B LINE

... PLAYBACK/FM SIGNAL LINE

Measurement condition:

centre

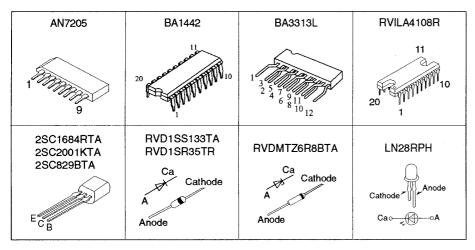
Tape: Tone:

Radio: FM 60dB, 30%mod

315 Hz, 0dB

AM 74 dB, 30%mod

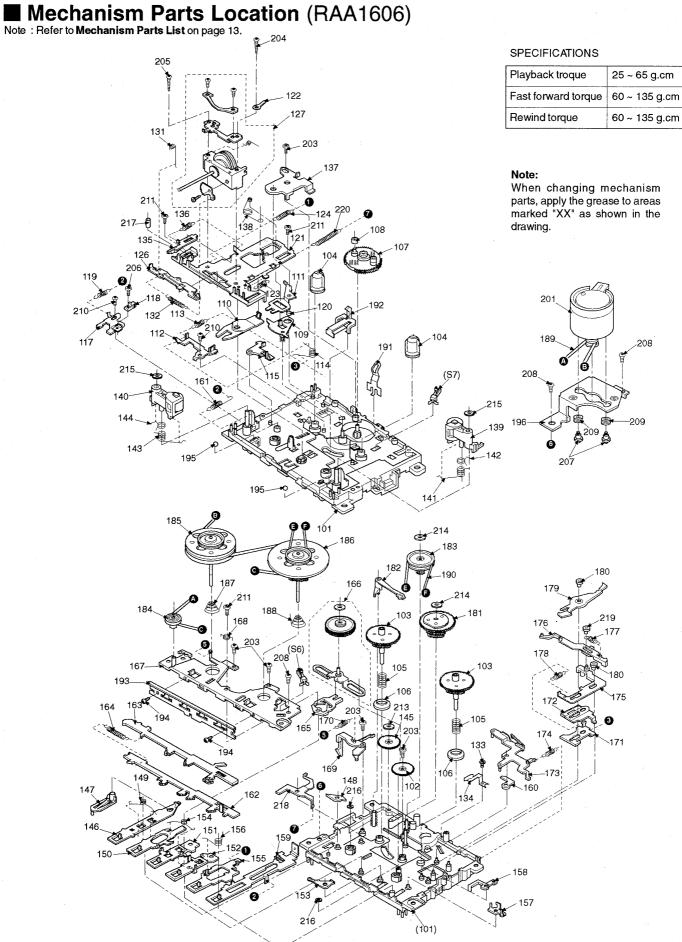
■ Terminal Guide of ICs, Transistors & Diodes

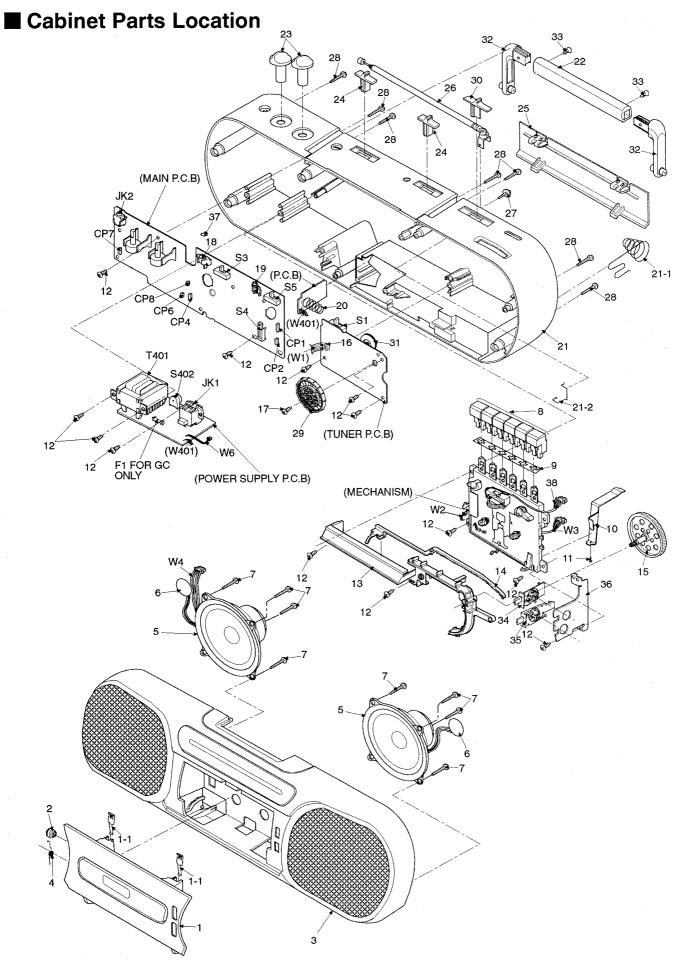


Mechanism Parts List

Note: [M] mark in Remarks column indicates parts that are supplied by MESA.

Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No	. Part No.	Part Name & Description	Remarks
		CASSETTE DECK		150	RFY937ZA	STOP LEVER	[M]	196	RFD449ZA	MOTOR HOLDER	[M]
				151	RFY983ZA	FLEVER	[M]	201	RFM181ZA	MOTOR ASS'Y	[M]
101	RFU197ZA	MECHA CHASSIS ASS'Y	[M]	152	RFY984ZA I	REW LEVER	[M]	203	RFE602ZA	BUSH SCREW	[M]
102	RFG144ZA	FWD GEAR	[M]	153	RFY940ZA	CUE STOP ARM	[M]	204	RFE528ZA	SCREW	[M]
			[M]	154	RFS879ZA	SPRING	[M]	205	RFE363ZA	SCREW	
104		REEL CAP	[M]	155	RFY941ZA	PLAYLEVER	[M]	206	RFE530ZA	SCREW	[M]
105			[M]	156	RFS880ZA	SPRING	[M]	207	RFE305ZA	SCREW	
106			[M]	157	RFD421ZA	SWITCH-A PLATE	[M]	208	RFE579ZA	SCREW	[M]
107			[M]	158	RFD422ZA	SWITCH-C PLATE	[M]	209	RFI24ZA	RUBBER CUSHION	
		COLLERB	[M]	159	RFY942ZA	REC LEVER	[M]	210	RFE531ZA	SCREW	[M]
			[M]	160	RFY943ZA	REC ARM	[M]	211	RFE532ZA	SCREW	[M]
		REVERSE-C PLATE	[M]	161	RFS881ZA	SPRING	[M]	213	RFN162ZA	WASHER	
111		REVERSE-D PLATE	[M]	162	RFY986ZA	FUNCTION-A PLATE	[M]	214	RFN233ZA	WASHER	[M]
112	RFD413ZA	MO JOINT PLATE	[M]	163	RFY999ZA	FUNCTION-D PLATE	[M]	215	RFN236ZA	WASHER	[M]
113	RFS865ZA	SPRING	[M]	164	RFS883ZA	SPRING	[M]	216	RFN234ZA	WASHER	[M]
114	RFS866ZA	SPRING	[M]	165	RFD423ZA	FF IDLER LEVER	[M]	217	RFE570ZA	TUBE	[M]
115	RFD414ZA		[M]	166	RFK29ZA	IDLER ASS'Y	[M]	218	RFY981ZA	SENSOR STOP PLATE	[M]
117	RFY931ZA	ERASE LEVER	[M]	167	RFY1000ZA	LEVER HOLDER ASS'Y	[M]	219	RFE539ZA	BUSH	[M]
118		E HEAD		168	RFS884ZA	SPRING	[M]	220	RFS918ZA	SPRING	[M]
119	RFS956ZA	SPRING	[M]	169	RFY1002ZA	EJECT LEVER	[M]				
120	RFX180ZA	COLLER	[M]	170	RFS885ZA	SPRING	[M]				
121	RFU180ZA	HEAD CHASSIS ASS'Y	[M]	171	RFD424ZA	MO PLATE	[M]				
122	RFE564ZA	LUG PLATE	[M]	172	RFY946ZA	MOLEVER	[M]				
123	RFS869ZA	SPRING	[M]	173	RFY947ZA	OR LEVER	[M]				
124	RFS870ZA	SPRING	[M]	174	RFS915ZA	SPRING	[M]				
126	RFY1036ZA	SLIDE PLATE-C ASS'Y	[M]	175	RFY948ZA	SENSOR LEVER	[M]				
127	RFKQXFS470PK	HEAD BLOCK ASS'Y	[M]	176	RFY949ZA	SENSOR-B LEVER	[M]				
131	RFS872ZA	SPRING	[M]	177	RFS887ZA	SPRING	[M]				
132	RFS873ZA	SPRING	[M]	178	RFS888ZA	SPRING	[M]				
133	RFE540ZA	SCREW	[M]	179	RFY950ZA	CANCEL LEVER	[M]				
134	RFD419ZA	SPRING DR PLATE	[M]	180	RFE260ZA	BUSH					ļ
135	RFY980ZA	GEAR STOP LEVER	[M]	181	RFJ95ZA	TENSION ASS'Y	[M]				
136	RFS917ZA	SPRING	[M]	182	RFY951ZA	SENSOR STOP ARM	[M]				
137	RFG157ZA	GEAR HOLDER	[M]	183	RFQ66ZA	DRIVE PULLEY	[M]				
138	RFS874ZA	SPRING	[M]	184	RFQ70ZA	PULLEY	[M]				
139	RFR69ZA	PINCH ROLLER(R)ASS'Y	[M]	185	RFF85ZA	FLYWHEEL ASS'Y	[M]				
140	RFR70ZA	PINCH ROLLER(L)ASS'Y	[M]	186	RFF83ZA	FLYWHEEL ASS'Y	[M]				
141	RFS875ZA	SPRING	[M]	187	RFS889ZA	SPRING	[M]				
142	RFS876ZA	SPRING	[M]	188	RFS891ZA	SPRING	[M]				
143	RFS877ZA	SPRING	[M]	189	RFB111ZA	BELT	[M]	_		-	
144	RFS878ZA	SPRING	[M]	190	RFB112ZA	BELT	[M]	_			
145	RFG149ZA	IDLER GEAR	[M]	191	RFS890ZA	SPRING PLATE	[M]				
146	RFY934ZA	PAUSE LEVER	[M]	192	RFKRXFS470PK	PLATE ASS'Y	[M]	_			
147	RFY935ZA	PAUSE STOP ARM	[M]	193	RFD425ZA	HOLDER	[M]				
148	RFY936ZA	PAUSE ARM	[M]	194	RFE414ZA	SCREW					
149	RFS882ZA	SPRING	[M]	195	RFW3ZA	STEEL BALL	[M]				





■ Replacement Parts List

Notes: * Important safety notice:

Components identified by $\underline{\mathring{\Lambda}}\$ mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low noise (resistors), etc are used. When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.

- * The parenthesized indications in the Remarks column specify the areas. (Refer to the cover page for area) Parts without these indications can be used for all areas.
- * [M] in the Remarks column indicates parts supplied by MESA.
- * The "(SF)" mark denotes the standard part.

Ref No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RFKLFS435GCK	CASSETTE LID ASS'Y	[M]
1-1	RUS757ZAA	HALF SPRING	[M]
2	RDG0288	DAMPER GEAR	[M]
3	RFKGFS470GCK	FRONT CAB. ASS'Y	[M](GC)
3	RFKGFS470GK	FRONT CAB. ASS'Y	[M](GU)
4	RMB0347	OPEN SPRING	[M]
5	EAS10P241JA3	SPEAKER	[M]
6	EFBS10D48A1	TWEETER	[M]
7	XTV3+10G	SCREW (SPEAKER)	
8	RGZ0017-S	MECHA BUTTON BLOCK	[M]
9	RMX0045B	SPACER	[M]
10	RMC0221	REC. SPRING PLATE	[M]
11	XTN2+3F	SCREW (PLATE)	
12	XTV3+12G	SCREW (PCB & MECH)	
13	RMK0219	DIAL CHASSIS	[M]
14	RGJ0013-W	POINTER	[M]
15	RGX0016-K	TUNING KNOB	[M]
16	RMR0315	CABLE HOLDER (6P)	[M]
17	XYN26+C6	SCREW (TUNING KNOB)	
18	RJM0005	MICROPHONE	[M]
19	RMN0238	LED HOLDER	[M]
20	RMBX0002	SPRINGTERMINAL	[M]
21	RFKHFS435GCK	BACK CAB. ASS'Y	[M](GC)
21	RFKHFS435GUK	BACK CAB. ASS'Y	[M](GU)
21-1	RJC91003	+- BATTERY TERMINAL	[M]
21-2	RJR0112	ANT.TERMINAL	[M]
22	RKX402YB-0	HANDLE ARM	[M]
23	RGW0186-K	VOLUMETONE KNOB	[M]
24	RBD563ZA-0	FUNCTION BAND KNOB	[M]
25	RKK318ZC-0	BATTERY COVER	[M]
26	XEARR175ED-Y	WHIP ANTENNA	
27	XYN3+F8FY	ROD ANTENNA SCREW	90,770
28	XTV3+20G	CABINET SCREW	
29	RDG0253	TUNING GEAR	[M]
30	RGV0127-K	4 BAND KNOB	[M]
31	RBT330ZB-0	FINE TUNING KNOB	[M]
32	RKX5SZA-0	HANDLE PIPE	[M]
33	XTC3+10CFN	HANDLE SCREW	

Ref No.	Part No.	Part Name & Description	Remarks
34	RGU0954-K	MODE BUTTON	[M]
35	RGU0955-K	DIRECTION BUTTON	[M]
36	RMK0220	MECHANISM BRACKET	[M]
37	RHS902SZB	MIC CUSHION	[M]
38	RFE606ZA	WIRE ASS'Y, HEAD	[M]
		INTEGRATED CIRCUITS	
IC1	AN7205	IC, RF	
IC2	BA1442	IC, MPX/IF	[M]
IC301	BA3313L	IC, PRE AMP	[M]
IC302	RVILA4108R	IC, AF POWER	<u>^</u>
		TRANSISTORS	
Q1	2SC829BTA	TRANSISTOR	
Q303	2SC2001KTA	TRANSISTOR	<u>^</u>
Q304	2SC1684RTA	TRANSISTOR	
		DIODES	
D1	RVD1SS133TA	DIODE	
D2	RVD1SS133TA	DIODE	
D301	LN28RPH	STEREO LED	[M]
D302	RVDMTZ6R8BTA	DIODE	Λ
D303	RVD1SS133TA	DIODE	
D304	RVD1SS133TA	DIODE	
D305	RVD1SS133TA	DIODE	
D401	RVD1SR35TR	DIODE	<u> </u>
D402	RVD1SR35TR	DIODE	Λ
D403	RVD1SR35TR	DIODE	(GC) <u></u> Λ
D404	RVD1SR35TR	DIODE	(GC) <u></u> <u></u>
		VARIABLE RESISTORS	
VR301	EWCUVAF15A54		
VR302	EWCVVAF15D54	VR, TONE	

Ref No.	Part No.	Part Name & Description	Remarks
		VARIABLE CAPACITOR	
VC1	RCV4RC2V2K-M	TRIMMER	
		TRIMMERS	
CT2	ECRLA010A53R	TRIMMER	
СТЗ	ECRLA010A53R	TRIMMER	
CT4	ECRLA010A53R	TRIMMER	
CT5	RCVMFTPC17	FINETUNING	
		A.1.1.T.A.1.T.A	
	*	SWITCHES	
S1	RSS4H04XA-H	SW, BAND	[M]
S3	RSS2D32ZA-H	SW, FUNCTION	[M]
S4	RSP2F001-A	SW, REC	[M]
S5	RSS2A66ZA-H	SW, FM MODE	[M]
S6	RFA107ZA	SW, MOTOR	[M]
S7	RFA106ZA	SW, PLAYBACK	[M]
S304	RJJ1SE01-H	SW, JACK W/SW (JK1)	<u>A</u>
S402	RSR3A01ZA-H	SW, VOLTAGE SELECTOR	Λ
		CONNECTORS	
CP1	RJS1A5206	CONNECTOR (6P)	(M)
CP1	RJP4G18ZA	CONNECTOR (6P)	[M]
CP2 CP4	RJP4G18ZA	CONNECTOR (4P)	
CP6	RJP2G4YA	CONNECTOR (2P)	
CP7	RJP4G4YA	CONNECTOR (4P)	
CP8	RJP2G18ZA	CONNECTOR (2P)	
		COILS &TRANSFORMERS	8
L1	RLQY30S1W	FM COIL	[M]
L2	RL04P002-E	FM OSC COIL	[M](GC)
L2	RLD4Y53W	FM OSC COIL	[M](GU)
L3	RLV5C005-0	AM FERRITE ANT	[M]
L6	RLQY30S4W	COIL	[M]
L7	RLA3B44-M	SW2 ANT. COIL	
L8	RL02B108-M	AM OSC COIL	
L9	RL03B91-M	SW1 OSC COIL	
L10	RL03B95-M	SW2 OSC COIL	
	RLI4B153-M	FMIFT	
T1			The second secon
T2	RLI2B153-M	AM IFT	
T2 T3	RLI4B153-M	FMIFT	
T2			[M](GC)/\hat{\hat{\hat{\hat{\hat{\hat{\hat{

Ref No.	Part No.	Part Name & Description	Remarks
		CERAMIC FILTERS	
CF1	RVF107WDZT	FM CF	
CF2	RVFSFZ455JL	AM CF	
	NVI 31 24330L	AWO	
Monte and the following the first of the fir		FUSE	
F1	XBA2C10TB0	FUSE	(GC) <u></u>
		FUSE HOLDERS	
		T GGE TIGEBETIS	
FH401	EYF52BC	FUSE HOLDER	(GC)
FH402	EYF52BC	FUSE HOLDER	(GC)
		IAOVO	
		JACKS	
JK1	RJJ1SE01-H	JK, AC	Â
JK2	RJJ37TK01-C	JK, PHONES	
		WIRES	
W2	REX0554	WIRE, HEAD TO MAIN	[M]
WЗ	REX0541	WIRE, MOTOR TO MAIN	[M]
W4	REX0582	WIRE, SPEAKERTO MAIN	[M]
W6	REX0574	WIRE, POWER TO MAIN	[M]
		PACKING MATERIALS	
P1	RPGX0263	GIFT BOX	[M](GU)
P1	RPGX0264	GIFT BOX	[M](GC)
P2	RPH654ZA	MIRAMAT SHEET	[M]
P3	RPN0729	POLYFOAM	[M]
		ACCESSORIES	
		AGCEGGGIIIEG	
A1	RQCB0169	SERVICE CENTRE LIST	
A2	RQT3542-G	INSTRUCTION MANUAL	[M]
A3	RJA0004	AC CORD	(SF)(GU)
A3	RJA0019-2K	AC CORD	(SF)(GC)
A4 A4	RJP1SG02-H SJP5213-2	PLUG ADAPTOR PLUG ADAPTOR	[M](GU) (GC)
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
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■ Resistors & Capacitors

- * Capacitor values are in microfarads (µF) unless specified otherwise, P=Pico-farads (pF) F=Farads * Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM).
- * Bracketed indications in Remarks columns specify the area (Refer to the first page for area). Parts without these indications can be used for all areas.
- * [M] Indicates in the values & remarks column indicates parts supplied by MESA

Ref. No.	Part No.	Values & Remarks
	RESISTORS	
R1	ERDS2TJ330T	33 1/4W
R2	ERDS2TJ334T	330K 1/4W
R3	ERDS2TJ471T	470 1/4W
R4	ERDS2TJ330T	33 1/4W
R5	ERDS2TJ101T	100 1/4W
R6	ERDS2TJ8R2T	8.2 1/4W
R7	ERDS2TJ820T	82 1/4W
R8	ERDS2TJ680T	68 1/4W
R9	ERDS2TJ822T	8.2K 1/4W
R10	ERDS2TJ103T	10K 1/4W
R11	ERDS2TJ221T	220 1/4W
R12	ERDS2TJ332T	3.3K 1/4W
R14	ERDS2TJ103T	10K 1/4W
R106	ERDS2TJ103T	10K 1/4W
R107	ERDS2TJ274T	270K 1/4W
R109	ERDS2TJ222T	2.2K 1/4W
R110	ERDS2TJ123T	12K 1/4W
R111	ERDS2TJ392T	3.9K 1/4W
R112	ERDS2TJ560T	56 1/4W
R113	ERDS2TJ222T	2.2K 1/4W
R116	ERDS2TJ183T	18K 1/4W
R117	ERDS2TJ222T	2.2K 1/4W
R121	ERDS2TJ2R2T	2.2 1/4W
R122	ERDS2TJ101T	100 1/4W
R131	ERDS2TJ682T	6.8K 1/4W
R140	ERDS2TJ223T	22K 1/4W
R206	ERDS2TJ103T	10K 1/4W
R207	ERDS2TJ274T	270K 1/4W
R209	ERDS2TJ222T	2.2K 1/4W
R210	ERDS2TJ123T	12K 1/4W
R211	ERDS2TJ392T	3.9K 1/4W
R212	ERDS2TJ560T	56 1/4W
R213	ERDS2TJ222T	2.2K 1/4W
R216	ERDS2TJ183T	18K 1/4W
R217	ERDS2TJ222T	2.2K 1/4W
R221	ERDS2TJ2R2T	2.2 1/4W
R222	ERDS2TJ101T	100 1/4W
R231	ERDS2TJ682T	6.8K 1/4W
R240	ERDS2TJ223T	22K 1/4W
R301	ERDS2TJ222T	2.2K 1/4W
R302	ERDS2TJ471T	470 1/4W
R303	ERDS2TJ222T	2.2K 1/4W
R305	ERDS2TJ471T	470 1/4W
R306	ERDS2TJ101T	100 1/4W
R308	ERDS2TJ561T	560 1/4W

Ref. No. Part No.		Values & Remarks		
R309	ERDS2TJ333T	33K	1/4W	
R310	ERDS2TJ221T	220	1/4W	
R311	ERDS2TJ6R8T	6.8	1/4W	
R313	ERDS2TJ101T	100	1/4W	
R314	ERDS2TJ105T	1M	1/4W	
R318	ERDS2TJ471T	470	1/4W	
R319	ERDS2TJ680T	68	1/4W	
R320	ERDS2TJ222T	2.2K	1/4W	
R331	ERDS2TJ392T	3.9K	1/4W	
R332	ERDS2TJ104T	100K 1/4W		
	CAPACITORS			
			National and Associated Services	
C1	ECBT1H100JC5	10P	50V	
C2	ECBT1H470J5	47P	50V	
C3	ECBT1H220JC5	22P	50V	
C4	ECBT1H100JC5	10P	50V	
C5	ECBT1H102KB5	1000P	50V	
C6	ECBT1H102KB5	1000P	50V	
C7	ECBT1H4R7KC5	4.7P	50V	
C8	ECBT1H150JC5	15P	50V	
C9	ECBT1H102KB5	1000P	50V	
C10	ECBT1H120JC5	12P	50V	
C11	ECBT1H220JC5	22P	50V(GU)	
C11	ECCR1H240KC5	24P	50V[M](0	
C12	ECFR1C223MR	0.022	16V	
C13	ECFR1C223MR	0.022	16V	
C14	ECBT1H221KB5	220P	50V	
C15	ECEA1HU010B	1	50V	
C16	ECBT1C682MR5	6800P	16V	
C17	ECEA1EU100B	10	25V	
C18	ECEA1CU470B	47	16V	
C19	ECFR1C223MR	0.022	16V	
C20	ECEA0JU101B	100	6.3V	
C21	ECBT1H102KB5	1000P	50V	
C22	ECFR1C473MR	0.047	16V	
C23	ECEA1HUR22B	0.22	50V	
C24	ECEA1EU100B	10	25V	
C25	ECBT1C103MS5	0.01	16V	
C26	ECFR1C223MR	0.022	16V	
C27	ECBT1H102KB5	1000P	50V	
C28	ECEA1HU010B	1	50V	
C29	ECEA1HU010B	1	50V	
C30	ECBT1H8R2KC5		50V	
C31	ECBT1H6R8KC5		50V	
C32	ECBT1H010MC5		50V	
C33	ECFR1C223MR	0.022	16V	

Ref. No.	Part No.	Values & Remarks			
C34	ECBT1H6R8KC5	6.8P	50V		
C36	ECQP2A361JZT	360P	100V		
C37	ECQP2A152JZT	1500P	100V		
C38	ECQP2A472JZT	4700P	100V		
C40	ECBT1C103NS5	0.01	16V		
C41	ECBT1H220JC5	22P	50V		
C42	ECBT1H200JC5	20P	50V		
C43	ECBT1H4R7KC5	4.7P	50V		
C101	ECBT1C152MR5	1500P	16V		
C102	ECBT1C152MR5	1500P	16V		
C103	ECBT1H331KB5	330P	50V		
C104	ECEA1CU470B	47	16V		
C105	ECFR1C333KR	0.033	16V		
C106	ECEA1CU100B	10	16V		
C108	ECFR1C183MR	0.018	16V		
C109	ECEA1CU100B	10	16V		
C110	ECBT1C222MR5	2200P	16V		
C111	ECEA0JU101B	100	6.3V		
C113	ECBT1C103MS5	0.01	16V		
C114	ECEA1CU470B	47	16V		
C115	ECEA1AU471B	470	10V		
C116	ECFR1C683MR	0.068	16V		
C117	ECFR1C473MR	0.047	16V		
C131	ECFR1C473MR	0.047	16V		
C201	ECBT1C152MR5	1500P	16V		
C202	ECBT1C152MR5	1500P	16V		
C203	ECBT1H331KB5	330P	50V		
C204	ECEA1CU470B	47	16V		
C205	ECFR1C333KR	0.033	16V		
C206	ECEA1CU100B	10	16V		
C208	ECFR1C183MR	0.018	16V		
C209	ECEA1CU221B	220	16V		
C210	ECBT1C222MR5	2200P	16V		
C211	ECEA0JU101B	100	6.3V		
C213	ECBT1C103MS5	0.01	16V		
C214	ECEA1CU470B	47	16V		
C215	ECEA1AU471B	470	10V		
C216	ECFR1C683MR	0.068	16V		
C217	ECFR1C473MR	0.047	16V		
C231	ECFR1C473MR	0.047	16V		
C301	ECEA1HU0R1B	0.1	50V		
C302	ECFR1C473MR	0.047	16V		
C303	ECEA1CU100B	10	16V		
C304	ECEA0JU221B	220	6.3V		
C305	ECEA1HU3R3B	3.3	50V		
C306	ECEA1AU330B	33	10V		
C310	ECQP2A332JZT	3300P	100V		

Part No.	Values	& Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
ECEA0JU221B	220	6.3V						
ECFR1C223MR	0.022	16V						
l e		16V						
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1								
1								
				-				
ECKHIHIUSZFS	0.01	50V(GC)						
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	ECEA0JU221B ECFR1C223MR ECBT1C103MS5 ECBT1C103MS5 ECEA1AU221B ECEA1CU470B ECBT1C103MS5 ECA1CM222EV ECKR1H103ZF5 ECKR1H103ZF5	ECEA0JU221B 220 ECFR1C223MR 0.022 ECBT1C103MS5 0.01 ECBT1C103MS5 0.01 ECEA1AU221B 220	ECEA0JU221B 220 6.3V ECFR1C223MR 0.022 16V ECBT1C103MS5 0.01 16V ECBT1C103MS5 0.01 16V ECEA1AU221B 220 10V ECEA1CU470B 47 16V ECBT1C103MS5 0.01 16V ECKR1H103ZF5 0.01 50V ECKR1H103ZF5 0.01 50V(GC)	ECEA0JU221B 220 6.3V ECFR1C223MR 0.022 16V ECBT1C103MS5 0.01 16V ECBT1C103MS5 0.01 16V ECEA1AU221B 220 10V ECEA1CU470B 47 16V ECBT1C103MS5 0.01 16V ECKR1H103ZF5 0.01 50V ECKR1H103ZF5 0.01 50V ECKR1H103ZF5 0.01 50V(GC)	ECEA0JU221B 220 6.3V ECFR1C223MR 0.022 16V ECBT1C103MS5 0.01 16V ECBT1C103MS5 0.01 16V ECEA1AU221B 220 10V ECEA1CU470B 47 16V ECBT1C103MS5 0.01 16V ECKR1H103ZF5 0.01 50V ECKR1H103ZF5 0.01 50V ECKR1H103ZF5 0.01 50V(GC)	ECEA0JU221B 220 6.3V ECFR1C223MR 0.022 16V ECBT1C103MS5 0.01 16V ECBT1C103MS5 0.01 16V ECEA1AU221B 220 10V ECEA1CU470B 47 16V ECBT1C103MS5 0.01 16V ECKR1H103ZF5 0.01 50V ECKR1H103ZF5 0.01 50V(GC)	ECEA0JU221B 220 6.3V ECFR1C223MR 0.022 16V ECBT1C103MS5 0.01 16V ECBT1C103MS5 0.01 16V ECEA1AU221B 220 10V ECEA1CU470B 47 16V ECBT1C103MS5 0.01 16V ECKR1H103ZF5 0.01 50V ECKR1H103ZF5 0.01 50V(GC)	ECEA0JU221B 220 6.3V ECFR1C223MR 0.022 16V ECBT1C103MS5 0.01 16V ECBT1C103MS5 0.01 16V ECEA1AU221B 220 10V ECEA1CU470B 47 16V ECBT1C103MS5 0.01 16V ECKR1H103ZF5 0.01 50V ECKR1H103ZF5 0.01 50V(GC)