Service Manua Radio Cassette

DOLBY SYSTEM

Stereo Radio Cassette Player



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	Colo	ur			
	(K).		Bla	ack T	vpe

Alea		,
Suffix for Model No	Areas	Colour
[GC]	Asia, Latin America, Middle Near East and Africa areas.	(K)
[GN]	Oceania	

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol are trade marks of Dolby Laboratories Licensing Corporation.

Aroa

■ SPECIFICATIONS

General:

Input:

Output:

Weight:

Power Output:

Dimensions:

Power Requirement: Battery; 3V [Two "AA" size, (R6/LR6) batteries] AC; with optional AC adaptor RP-AC31 12mW(6.0mW × 2)…RMS (max.) DC IN; 3V (↔ ⊕ ↔) Headphones; 16Ω , $\phi 3.5$ 114.3(W) × 86.6(H) × 37.9(D)mm 185g without batteries

Radio Section

naulo Section.	
Radio Frequency Range:	FM; 87.5~108MHz (0.05MHz step)
	AM; 531~1602 kHz(9kHz step)
	530~1600kHz (10kHz step)
Intermediate Frequency:	FM; 10.7MHz
	AM; 450kHz
Sensitivity:	FM; 5.62 µV/0.5mW output
	(-3dB Limit, Sens)
	AM; 398µV/m/0.5mW output
Tape Deck Section:	
Frequency Response:	40~16,000Hz (Normal, CrO ₂ /Metal)
Tape Speed:	4.8cm/s
Program Time:	1 hour with C-60 cassette tape
Track System:	4-track, 2-channel stereo playback

Notes:

1. Weights and dimensions shown are approximate. 2. Design and specifications are subject to change without notice.

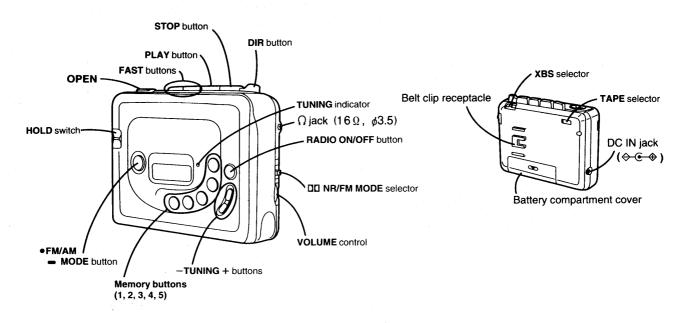
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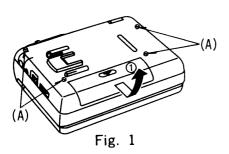
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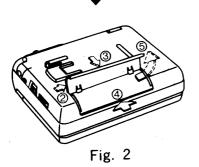


LOCATION OF CONTROLS



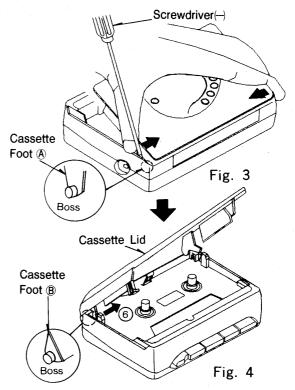
DISASSEMBLY INSTRUCTIONS





• Removal of the battery cover and Rear Cabinet

- 1. Open the battery cover in the direction of arrow().
- 2. Remove the battery cover in the direction of arrow (2) and (3).
- 3. Remove the screws (A) (2×10) mm $\times 4$.
- 4. Remove the rear cabint in the direction of arrow (4) & (5).



• How to Removal of the Cassette Lid

- Note: Be careful not to break cassette foots (A) and (B) when removing the cassette lid.
- 1. Strongly press two sides of the cassette lid, then it was bent a little.
- 2. With a (-) screwdriver as shown in Fig 3, and pull out the right-side of the cassette lid.
- 3. By the direction of (6), remove the cassette foot.

-2-



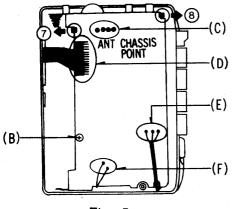
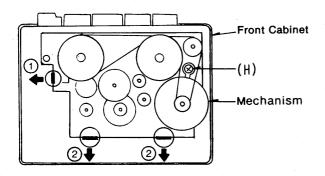
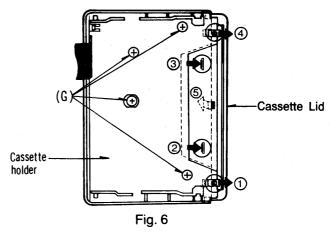


Fig. 5

- Removal of ANT Chassis and Circuit Board (Fig. 5)
 - 1. Remove the screw (B) (2×6) mm $\times 1$.
 - 2. Disconnect the solder(C).
 - 3. Remove the ANT chassis in the direction of arrow (7), (8).
 - 4. Remove the solder(D).(E).(F) from flexible PC.B.





● Removal of the LCD P.C.B. (Fig. 6)

- 1. Remove the screws (G) (1.4×3.5) mm $\times 4$.
- 2. Remove the Cassette holder in the direction of arrow (1, 2, 3, 4, 5)
- 3. Remove the LCD P.C.B.

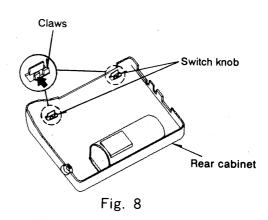
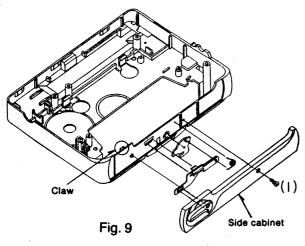


Fig. 7

•Removal of the Front Cabinet and Mechanism

1. Remove the deck screw (H) (2×6)mm×1

2. Remove the front cabinet & mechanism in the direction of arrow (1), (2).

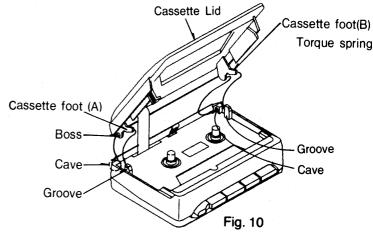


Removal of the side cabinet

- 1. Remove the screw(I)X1.
- 2. Remove the claw.
- 3. Remove the side cabinet.



1. Release the claws of knobs in the direction of arrow, and then remove the switch knobs.



How to Replace the Cassette Lid Spring

- 1. Enter the cassette foot (A) into the groove of the case body.
- 2. Enter the boss of the cassette foot into the cave.
- 3. Enter the cassette foot (B) into the groove of the case body.

REPLACEMENT PARTS LIST

Notes: Indicates parts that are supplied by TAMACO Т

Ref. No.Parts No.Parts Name & DescriptionINTEGRATED CIRCUITS, TRANSISTORS AND DIODESIC1AN6612SE2IC2 TTA8122AFTIC3 TLA4571MBTIC4 TBA1106FTIC201 TTC9316FB071IC202 S80719SLAGT1IC203 TD6134AFTIC203 TD6134AFTIC203 TD6134AFTQ4 TRVTDTC144EUXQ4 TRVTDTC144EUXQ7 2SB132RTXQ8 TRVTDTC144EUXQ10T2SC4326LSTXQ10TZSC4326LSTXQ203 TZSK303V3TBQ203 TZSK303V3TBD3.4 TKV1560TL3-0DiodeDiodeD5.202,210TRVDDAN202UTXDiodeDC010TXDiodeDC010TXDiodeD204,207,LN1261CTRL1 TRL04Y254-LA RDRL02A011M-NU3 TRL02A011M-NC01LS AND TRANSFORMERSL1 TRL02A011M-NL201 TRL02010STDiodeD206 TRL0210KM-ML201 TRL02010STDiodeD201 TRL02401M-NL5 TRL02010STL5 TRL02010ST-NL201 TRL02010ST-ML201 TRL02010ST-ML201 TRL02010ST-ML201 TRL02010ST-ML201 TRL02010ST-ML201 TRL02010ST-ML201 TRL02010ST-ML201 TRL02010ST-ML201 TRL02010ST-ML201 TRL02010ST-M			
IC1AN6612SE2I.C.MOTOR DRIVEIC2 IITA8122AFTI.C.MOTOR DRIVEIC3 IILA4571MBTI.C.PRE/POWER AMPIC4 IIBA1106FTI.C.PRE/POWER AMPIC201 IITC9316FB071I.C.RESETIC202S80719SLAGT1I.C.RESETQ1,3,5,11IIRVTDTC144EUXTransistorQ2,6,13 II2SA1577QT106TransistorQ4 IIRVTDTC144EUXTransistorQ72SB132RTXTransistorQ8 IIRVTDTC143UXTransistorQ9 IIRVTDTC144EUXTransistorQ14 IIRVTDTA142EUXTransistorQ14 IISB07-03CTXDiodeD1 IISB07-03CTXDiodeD204,205 IIDCC010TXDiodeD204,207,LN1261CTRL.E.D.206 IIDZD12YTBDiodeD205 IIDCC010TXDiodeD206 IIDZD12YTBDiodeD206 IIRL04Y15-2Antenna Coil FML3 IIRL02A01N-MOscillator Coil AML4 IIREKT0006Bar Antenna Ass'y(Vithe Antenna Chassis)Choke Coil RFL201 IIRL09U019T-MOscillator Coil	Ref. No.	Parts No.	Parts Name & Description
IC2 TTA8122AFTI.C.FM RF/IF AMPIC3 TLA4571MBTI.C.PRE/POWER AMPIC4 TBA1106FTI.C.DOLBYIC201 TTC9316FB071I.C.MICRO COMPUTERIC202S80719SLAGTII.C.RESETIC203TD6134AFTI.C.RESETQ1,3,5,11TRVTDTC144EUXTransistorQ2,6,13TZSA1577QT106TransistorQ4 TRVTDTC144EUXTransistorQ72SB1132RTXTransistorQ8 TRVTDTC143TUXTransistorQ10 TRVTDTC144EUXTransistorQ11 TSC4326LKSTXTransistorQ201,202,2SC4081RTXTransistorQ203 T2SK303V3TBF.E.T.D1 TSB07-03CTXDiodeD204,205 TQC010TXDiodeD204,207,LN1261CTRL.E.D.208,209DCC010TXDiodeD205 TDCC010TXDiodeD206 TDZD12YTBDiodeD205 TDCC010TXDiodeD206 TDZD12YTBDiodeD206 TRL04Y15-2Antenna Coil FML3 TRL02A011M-MBar Antenna Ass'yL4 TREKT0006Bar Antenna Ass'yL5 TRLQ2010KM-MChoke Coil RFL201 TRL09U19T-MOscillator Coil	INTEGRATE) CIRCUITS, TR	ANSISTORS AND DIODES
L1 TRL04Y254-LAntenna Coil FML2 TRL04Y15-2Oscillator Coil FML3 TRL02A011M-MOscillator Coil AML4 TREKT0006Bar Antenna Ass'yL5 TRLQ2010KN-MChoke Coil RFL201 TRL09U019T-MOscillator Coil	IC2 T IC3 T IC4 T IC201 T IC202 IC203 Q1, 3, 5, 11 T Q2, 6, 13 T Q4 T Q7 Q8 T Q9 T Q10 T Q10 T Q14 T Q201, 202, 204, 205 T D5, 202, 210 T D6 T D204, 207, 208, 209 D205 T	TA8122AFT LA4571MBT BA1106FT TC9316FB071 S80719SLAGT1 TD8134AFT RVTDTC144EUX 2SA1577QT106 RVTDTA143XUX 2SB1132RTX RVTDTC143TUX RVTDTC124EUX 2SC4326LKSTX RVTDTA124EUX 2SC4081RTX 2SK303V3TB SB07-03CTX KV1450TLA3-4 RVDDAN202UTX KV1560TL3-0 LN1261CTR DCC010TX	I.C.FN RF/IF AMP I.C.PRE/POWER AMP I.C.DOLBY I.C.NICRO CONPUTER I.C.RESET I.C.RESET Transistor Transistor Transistor Transistor Transistor Transistor Transistor F.E.T. Diode Diode Diode L.E.D. Diode
L2 ① RL04Y15-2 Oscillator Coil FM L3 ⑦ RL02A011N-N Oscillator Coil AM L4 ⑦ REKT0006 Bar Antenna Ass'y L5 ⑦ RLQ2010KN-N Choke Coil RF L201 ⑦ RL09U019T-M Oscillator Coil	COILS AND	TRANSFORMERS	
	L2 T L3 T L4 T L5 T L201 T	RL04Y15-2 RL02A011M-M REKT0006 RLQZ010KM-M RL09U019T-M	Oscillator Coil FM Oscillator Coil AM Bar Antenna Ass'y (Withe Antenna Chassis) Choke Coil RF Oscillator Coil

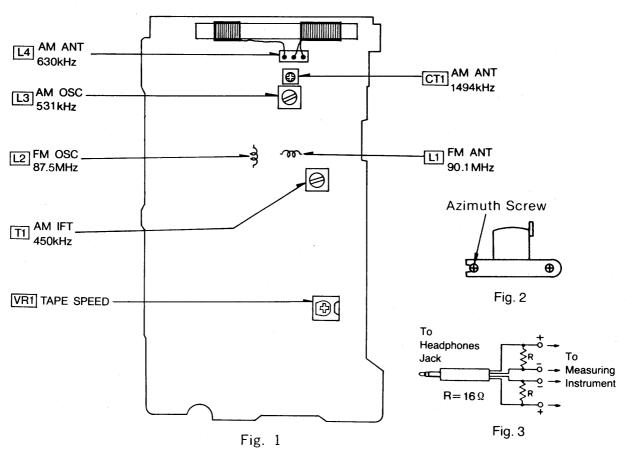
Ref. No.	Parts No.	Parts Name & Description				
VARIABLE RE	VARIABLE RESISTORS					
VR1 I VR2	EVNDXAA02B32 Evubaat50a54	V.R.Tape Speed V.R. Volume				
TRINNER CAR	TRINNER CAPACITOR					
CT1	ECRLA010A53R	Trimmer CAP				
CERANIC FIL	TERS AND CRYS	STAL				
CF1,21 CF31 CF41 CX11	RLFDFT15AD	Ceramic Filter FN Ceramic Filter FN Ceramic Filter AM Ceramic Crystal AM				
CRYSTAL						
X201 🗊	RSXD75K0S07	Crystal				
LCD						
LCD201 🗇	RSL5124-P	L.C.D.				
CONPONENT	CONINATION					
21	RCRBNT002-H	Band Pass Filter				
SWITCHES						
S1 T S2 T S3 T S4 T S5 T S201	RSH1A021-I RSS2B54VA-K RSS2B013-A RSS2B017-K RFA117ZA RSS2A010-1A	SW, Motor SW, DX/LOCAL SW, MET/NOR SW, SBX SW, FWD/REV Switch,Hold				
JACKS						
J1 T J2 T	RJJ43K08-H RJJD3S52B-C	DC IN Jack Headphones Jack				

RESISTORS R70 RJGEFYJ151V R71, 72 C14 RCSTICY105RR C16, 29, 45 C204, 215, ECUV1A38NBN C16, 29, 45 CC04, 215, ECUV1A38NBN C16, 29, 45 ECUV1A1337N C16, 29, 45 CC04, 215, ECUV1A220KCV ECUV1H1932F R7, 8 ERJGEFYJ393Y R7, 8 ERJGEYJ102Y ERJGEFYJ102Y ERJGEFYJ102Y 210, 221, 28, 237 ERJGEFYJ102Y 228, 237 ERJGEFYJ102Y 228, 237 C19, 20 ECUV1H150JCV C205 ECUV1H151KC R14, 15 ERJGEFYJ102Y R16, 17 ERJGEFYJ102Y 228, 237 ERJGEFYJ103V R206, 231 ERJGEFYJ103V R206, 231 ERJGEFYJ103V R206, 231 ERJGEFYJ103V R206, 231 ERJGEFYJ103V R206, 231 ERJGEFYJ103V R208, 23, 35 ECUV1E1038BN ECUV1E1038BN C211, 221 ECUV1H1210C R16, 17 ERJGEFYJ382V R219, 220, ERJGEFYJ474V R219, 220, ERJGEFYJ474V R219, 220, C33, 35 ECUV1E1038BN C211, 221 ECUV1H102KBV C212, 231, ECUVNIC104ZFV R21, 22 ERJGEFYJ382V R22, 24 ERJGEFYJ382V R230, 234 ERJGEFYJ153V R230, 242 ERJGEFYJ163V R230, 242 ERJGEFYJ164V C226 ECUV1C104ZFN C38, 67, 79, C214, 223, ECUV1C104ZFN C39 ECUV1C104ZFN C39 ECUV1C104ZFN C224, 2225,	Ref. No.	Parts No.	Ref. No.	Parts No.	Ref. No.	Parts No.	Ref No.	Parts No.
RESISTURS RT1, 72 ERJGGEYJ0833 C18, 29, 45 ECSILTTORK C218, 217, 218, 219, 228, 228, 221, 224, 227 R1, 2 ERJGEYJ393V R202, 223, ERJGEYJ101V C18, 29, 45 ECSILTTORS ECUVICESSMEN 218, 217, 218, 219, 228, 228, 223, 224, 227 R5, 6 ERJGEYJ393V R202, 223, ERJGEYJ102V ERJGEYJ102V C18, 20, 42, 223, 223, 224, 227 ECUVIL1220KCV 220, 223, 224, 227 R7, 8 ERJGEYJ473V R203, 224, 227 ERJGEYJ102V C18, 20, 42, 225 ECUVIH150JCV 220, 223, 24 R1, 12 ERJGEYJ473V R206, 231 ERJGEYJ102V C23, 24 ECUVIL0584JC C206 ECUVIH0700C 66 ERJGEYJ322V R206, 231 ERJGEYJ472V C23, 34 ECUVIC333NBV C208 ECUVIL103NB R14, 15 ERJGEYJ322V R206, 231 ERJGEYJ4747V C33, 35 ECUVIC333NBV C210 ECUVIL103NB R20 ERJGEYJ3432V R215, 216, ERJGEYJ4747V C36 ECUVIC1042FN C210 ECUVIL102NB R22, 22 ERJGEYJ434V R230, 234 ERJGEYJ474V C38, 67, 79, ECUVIC1042FN								
R1,2 ERJ6GEYJ122V R3,4 ERJ6GEYJ122V ERJ6GEYJ233V R5,6 ERJ6GEYJ233V ERJ6GEYJ233V R7,8 ERJ6GEYJ233V ERJ6GEYJ233V R203 C17,80 ECUV1C683BBN ECUV1E038BN C18 218,219, 229,238, ECUV1H150LCV R7,8 ERJ6GEYJ273V R7,8 ERJ6GEYJ273V ERJ6GEYJ272V R6 ERJ6GEYJ102V 210,221, 228,237 ERJ6GEYJ103V ERJ6GEYJ102V C17,80 ECUV1E038BN ECUV1E1038BN C29,238, 229,238, C20,221,22 ECUV1H150LCV ECUV1H150LCV R14,15 ERJ6GEYJ7473V R16,17 ERJ3GEYJ162V ERJ3GEYJ224V ERJ6GEYJ747V R200 ERJ6GEYJ747V ERJ6GEYJ473V ERJ6GEYJ747V R209 ERJ6GEYJ747V ERJ6GEYJ473V C28,31,34 ECUV1E1038BN C217,218, ERJ6GEYJ474V ECUV1E1038BN C217,56,61, ECUV1E1038BN C211,221 ECUV1H121C ECUV1H02KBV R200 ERJ6GEYJ747V R21,23 ERJ6GEYJ473V R220,232 ERJ6GEYJ7472V R225,27 ERJ6GEYJ4747V R236 C36 ECUV1E1038BN C211,221 C2108 ECUV1H102KBV C2108 C211,221 ECUV1H102KBV C210,2231,ECUVNI102KFV R21,23 ERJ3GEYJ380V R22,24 ERJ6GEYJ3151V R236,27 ERJ6GEYJ3271V C36 C36 ECUV1C1042FV C235,223 ECUV1L1042FV C235,224 ECUV1L1042FV C236,242 C214,223,225,2231,ECUV1L1042FV C24,43,44,44 ECUV1C1042FV C236 ECUV1L1042FV C236 ECUV1L1042FV C236,242 ECUV1L1042FV C226 ECUV1H1010LCUVC1042FV	RESISTORS							ECUV1H103ZFN
R3.4 ERJ6GEV13530V 2202.223. ERJ6GEV13104V C18 ECUV1H220KCV 229.238. R5.6 ERJ6GEV1353V 2203.221. ERJ6GEV1333V ERJ6GEV1333V ECUV1H220KCV 220.233.24 R5.6 ERJ6GEV1343V R203.221. ERJ6GEV1333V ECUV1H220KCV 220.233.4 ECUV1H0720BV R1.12 ERJ6GEV1473V R206.231 ERJ6GEV1272V C23.34 ECUV1H02KBV C207.209. ECUV1H0700C R16.17 ERJ3GEV1224V R208.231 ERJ6GEV1472V C28.31.34 ECUV1E103MBN C210 ECUV1H102KBV R20.6 ERJ3GEV1473V R208.231 ERJ6GEV1472V C38.55 ECUV1E103MBN C210 ECUV1H102KBV R20.7 ERJ3GEV1473V R208.231 ERJ3GEV1474V C33.55 ECUV1E103MBN C210 ECUV1H102KBV R21.23 ERJ3GEV3424V R21.22 ERJ3GEV1474V R23.55 ECUV1E103MBN C210.22.231.22 ECUV1H102KBV R22.24 ERJ3GEV3324V R230.234 ERJ3GEV324V R230.234 ERJ3GEV324V R230.234 ERJ3GEV32	R1.2	ERJ6GEYJ122V					218,219,	
R5.6 ERJ6GEYJ273V 244,227 ERJ6GEYJ273V 244,227 ERJ6GEYJ333V C19,20 ECUV1H1504CV 240,243 C205 ECUV1H151KC R7.8 ERJ6GEYJ102V 210,221, ERJ6GEYJ102V 210,221, ERJ6GEYJ102V C27,47,54, ECUV1H1272MBV C205 ECUV1H107D0C 66 R11,12 ERJ6GEYJ272V R208,237 ERJ6GEYJ103V 55,93 ECUV1E103MBV C207,209, ECUV1H102KBV C208 ECUV1H101KD C208 ECUV1H102KBV C208 ECUV1H102KBV C208 ECUV1H102KBV C208 ECUV1H102KBV C208 ECUV1H101KD C208 ECUV1H101KD C208 ECUV1H101KD C208 ECUV1H102KBV C208 ECUV1H102KBV C211,221 ECUV1H102KBV C211,221 ECUV1H101KD C214,223 ECUV1C104ZFV C214,223 ECUV1H102KBV C214,223,223 ECUV1H102KBV C214,223,22				EKJ6GEYJ104V			229,238,	
R7,8 ERJ6GEYJ684V R203, 205, 210, 221, 210, 221, 210, 221, 220, 210, 221, 220, 210, 221, 220, 210, 221, 220, 210, 221, 220, 210, 221, 220, 220							240,243	
R9.10,50, 66 ERJ6GEYJ102V (20,221, 228,237) ERJ6GEYJ102V (21,21, 228,237) ERJ6GEYJ102V (227,47,54, ECUV1E084ZFN) C206 (207,209, 228,237) ECUV16084ZFN (207,209, 228,237) C206 (207,209, 228,237) ECUV16103NB R14.15 ERJ3GEYJ102V R16.17 ERJ3GEYJ22V R208 R206,231 ERJ6GEYJ474V R209 ERJ6GEYJ474V R21,23 ERJ3GEYJ424V R21,23 R209 ERJ6GEYJ474V R21,23 ERJ3GEYJ473V R21,23 ERJ3GEYJ473V R21,23 ERJ3GEYJ473V R21,23 ERJ3GEYJ473V R21,23 ERJ3GEYJ473V R21,23 ERJ3GEYJ473V R21,23 ERJ3GEYJ473V R21,23 ERJ3GEYJ473V R21,23 ERJ3GEYJ473V R21,23 ERJ3GEYJ473V R21,221 ECUV110102X R22,22 ECUV110102X R21,221 ECUV11102X R22,223 R22 ERJ3GEYJ474V R225 ERJ6GEYJ153V R22,22 ERJ6GEYJ153V R22,22 ERJ6GEYJ152V R23,23 ERJ6GEYJ152V R23,23 ERJ6GEYJ121V R230 C39 ECEA1HKS0101 C224,223, 220,242 C224,223, R230,242 ECUV11042FN R230 C224 C224 ECUV11042FN R230 C23,24 ECUV11042FN R230,39,65, ERJ6GEYJ302V C232 ECUV11042FN R236 C224,434V R233 ERJ6GEYJ105V R230 C39 ECEA1HKS0101 C22 C224 C226 ECUV111042FN C227 C224 ECUV111042FN R230,39,65, ERJ6GEYJ103V R33,38							C205	ECUV1H151KCN
66 210, 221, 22, 23, 237 C27, 47, 54, ECUV1H102KBW C207, 209, ECUV1E103MB R11, 12 ERJ8GEYJ473V R208, 231 ERJ8GEYJ103V C28, 31, 34 ECUV1C333MBV C208 ECUV1E103MB R16, 17 ERJ3GEYJ224V R200 ERJ8GEYJ473V R215, 216, EVJ6EYJ474V ECUV1C333MBV C210, 221, ECUV1H102KBV C210, 221, 221, ECUV1H102KBV C211, 221, ECUV1H102KBV C210, 221, 221, ECUV1H102KBV C210, 221, 221, ECUV1H102KBV C210, 221, 221, ECUV1H102KBV C210, 221, 221, ECUV1H102KBV C211, 221, ECUV1H102KBV C211, 221, ECUV1H102KBV C210, 221, 221, ECUV1H102KBV C211, 221, ECUV1H102KBV C212, 231, ECUV1C104ZFV C224, 224, 225, 231, ERJ3GEYJ3AV R230, 234 ERJ3GEYJ153V R31 R31 ECUV1C104ZFN C224, 225, 230, 234 ERJ6GEYJ271V C41 ECUV1C104ZFN C224, 225, 230, 234 ERJ6GEYJ271V C41 ECUV1C104ZFN C224, 225, 230, 234 ECUV1H102KBN C226 <thcuv1l104zfn< th=""> C226 <thc< td=""><td></td><td></td><td></td><td>EKIDUETITUZV</td><td></td><td></td><td>C206</td><td>ECUV1H070DCN</td></thc<></thcuv1l104zfn<>				EKIDUETITUZV			C206	ECUV1H070DCN
R11,12 ERJ6GEYJ473V R14,15 R206,231 ERJ6GEYJ224V R208 ERJ6GEYJ72V ERJ6GEYJ272V R208 55,93 C28,31,34 CUV1C333MBV ECUV1C333MBV C210 C208 ECUV1L103MBN C210 ECUV1H121JC R20 ERJ3GEYJ224V R18,19 R209 ERJ3GEYJ472V R21,23 ERJ6GEYJ472V R219,220 ERJ6GEYJ472V R219,220 C33,35 ECUV1C104ZFV R219,220 ECUV1C104ZFV C38,67,79, ECUV1C104ZFN C211,221 C211,221 ECUV1C104ZFV C212,231, ECUV1C104ZFN R25,27 ERJ3GEYJ824V R236 R219,220, ERJ6GEYJ474V ERJ6GEYJ153V R220,234 ERJ6GEYJ474V R220,234 ECUV1C104ZFN C38,67,79, ECUV1C104ZFN C214,223, C214,223, Z24,225, Z35 ECUV1C104ZFN R26 ERJ3GEYJ384V R230,234 R2235 ERJ6GEYJ151V R230,234 C41 ECUV1C104ZFN C222 ECUV1C104ZFN R230 [T] ERJ6GEYJ3821V R31,33 R236 ERJ6GEYJ162VJ R235 R236 ERJ6GEYJ682V R235 C41 ECUV1H221KBN C222 ECUV1L04MBN C226 C227 ECUV1H100CC R31,33 ERJ6GEYJ471V R35,38 ERJ6GEYJ471V R36,39,65, RJ1057,RJ11 ERJ6GEY0000V R36,77 C53 ECUV1H020CCN C234 ECUV1H21KE R44 ERJ6GEYJ4747V R41 ERJ6GEYJ104V R41 RJ6,7 ERJ3GEY0000V R36,77 C57,6 C023,83 ECUV1H000CV C53		Lineodalielear					C207,209,	ECUV1E103MBN
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R16,17 ERJ3GEYJ224V R209 ERJ3GEYJ224V C33,35 ECUVIE103NBN C210 ECSTICY105R R20 ERJ3GEYJ3224V R215,216, ERJ5GEYJ472V C36 ECUVIE103NBN C211,221 ECUVIE102XB R21,23 ERJ3GEYJ473V R219,220, ERJ6GEYJ472V C36,61, ECUVIC104ZFV C32,231, ECUVIC104ZFV R22,24 ERJ3GEYJ473V R219,220, ERJ6GEYJ1684V C38,67,79, ECUVIC104ZFN C214,223, ECUVIC104ZFN R26 ERJ3GEYJ484V R230,234 ERJ6GEYJ153V 81 C41 ECUVIC223NBN C222 ECUVIC104ZFN R28 ERJ6GEYJ434V R232 ERJ6GEYJ151V C41 ECUVIC223NBN C226 ECUVIC104ZFN R30 T ERJ6GEYJ471V R235 ERJ6GEYJ152V C42,43,44, ECUVIH221KBN C227 C226 ECUVIH1000C R31,33 ERJ6GEYJ4821V R235 ERJ6GEYJ162V R235 ECJ6GEYJ102V C226 ECUVIH100C C227 C224 ECUVIH100C C226 ECUVIH100C C227 C224 ECUVIH100C C226 ECUVIH1100 C226 ECUVIH100						ECUV1C333MBV	C208	ECUV1H121JCN
R18,19 EKJ3GEYJ822V ER3GEYJ82V R200 EKJ3GEYJ82V ERJ3GEYJ86V R215,216, R215,216, ERJ3GEYJ472V EKJ3GEYJ474V C366 C37,56,61, ECUV1C104ZFV C211,221, 222,231, C38,67,79, ECUV1C104ZFN EC11,221, C212,231, C212,231, ECUV1C104ZFN ECUV1104ZFN R25,27 ERJ3GEYJ82V ERJ3GEYJ434V R225, ERJ3GEYJ434V ER230,234 ERJ6GEYJ153V R230,234 C38,67,79, ECUV1C104ZFN ECUV1C104ZFN C214,223, 224,225, C39,67,79, ECUV1C104ZFN ECUV1C104ZFN R26 ERJ3GEYJ434V R230,234 ERJ6GEYJ153V R230,234 ERJ6GEYJ151V R232 C39, ERJ6GEYJ152V C39, C39, C41 ECUV1C104ZFN C214,223, C214,223, ECUV1C104ZFN ECUV1C104ZFN R31,33 ERJ6GEYJ1R2V R31,33 R235 ERJ6GEYJ271V R235 ERJ6GEYJ152V R235 ERJ6GEYJ152V R235 C42,43,44, ECUV1H221KBN C222 ECUV1C104ZFN R31,33 ERJ6GEYJ471V R35,38 ERJ6GEYJ471V R35,38 R235 ERJ6GEYJ271V C53 C48 ECUV1H221KBN C234 ECUV1H101KCN R34,42,43 ERJ6GEYJ471V R35,38 ERJ6GEYJ471V R35,38 ERJ6GEYJ471V R35,86 ERJ3GEYJ103V CH1P JUNPERS C52,76 ECUV1H470KCN C236 C245 ECUV1H101KCN R36,39,65, ERJ6GEYJ105V R41 ERJ3GEYJ104V RJ6,7 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>C210</td> <td>ECST1CY105RR</td>							C210	ECST1CY105RR
R20 ERJ3GEYJ560V R215, 216, 216, 216, EKJ3GEYJ472V C37, 56, 61, ECUV1C104ZFV C212, 231, 225, 237, 235 R21, 23 ERJ3GEYJ472V R219, 220, 232 ERJ6GEYJ684V R219, 220, 232 ERJ6GEYJ153V R31 C38, 67, 79, ECUV1C104ZFV C212, 231, 235 ECUV1C104ZFV R26 ERJ3GEYJ434V R225 ERJ6GEYJ153V R31 C39 ECUV1C104ZFN C212, 231, 235 ECUV1C104ZFV R28 ERJ6GEYJ434V R232 ERJ6GEYJ151V C39 ECUV1C104ZFN C212, 231, 235 ECUV1C104ZFN R30 TI ERJ6GEYJ182V R233 ERJ6GEYJ152V C41 ECUV1C223MBN C222 ECUV1C104ZFN R31, 33 ERJ6GEYJ821V R236 ERJ6GEYJ152V C43 ECUV1H221KBN C226 ECUV1H1204C R31, 33 ERJ6GEYJ471V R236 ERJ6GEYJ162V C48 ECUV1H470KCN C234 ECUV1H10MCCV R33, 39, 65, ERJ6GEYJ103V R31, 33 ERJ6GEYJ223V R31, 57, RJ11 ERJ3GEY0R00V C57 ECUV1H470KCN C245 ECUV1H331KE R37, 68 ERJ6GEYJ103V RJ6, 7 ERJ3GEY0R00V C57, 62, 63, 71, ECUV1H000CV C64								ECUV1H102KBN
R21, 23 ERJ3GEYJ473V R217, 218 R217, 218 R219, 220, ERJ6GEYJ684V 70 C38, 67, 79, ECUV1C104ZFN 224, 225, C214, 223, ECUV1C104ZFN 224, 225, C38, 67, 79, ECUV1C104ZFN 224, 225, ECUV1C104ZFN 224, 225, C38, 67, 79, ECUV1C104ZFN 224, 225, ECUV1C104ZFN ECUV1C104ZFN ECUV1C104ZFN 224, 225, ECUV1C104ZFN ECUV				ERJ6GEYJ472V				ECUVNC1052FN
R22, 24 ERJ3GEYJ332V R219, 220, 222 ERJ3GE10064V C38, 67, 79, ECUV1C104ZFN C214, 223, 224, 225, 234, 224, 225, 230, 234 R26 ERJ3GEYJ434V R220, 234 ERJ6GEYJ153V C39 ECEA1HKS0101 222 224, 225, 230, 242 R28 ERJ6GEYJ434V R230, 234 ERJ6GEYJ151V C41 ECUV1C223MBN C226 ECUV1C104ZFN R29 T ERJ6GEYJ434V R233 ERJ6GEYJ152V C41 ECUV1C223MBN C226 ECUV1C104MB R30 T ERJ6GEYJ1R2V R235 ERJ6GEYJ162V C42, 43, 44, ECUV1H221KBN C226 ECUV1H120JC R31, 33 ERJ6GEYJ82V R235 ERJ6GEYJ162V C48 ECEA1CKS1001 C234 ECUV1H120JC R32 ERJ6GEYJ472V R236 ERJ6GEYJ121V C50 ECUV1H470KCN C236 ECUV1H101KC R35, 38, 65, ERJ6GEYJ471V R36, 7 ERJ6GEYOR00V C57 ECUV1H020CCV C245 ECUV1H1021KE R37, 68 ERJ6GEYJ104V RJ6, 7 ERJ3GEY0R00V C57, 68, 65 ECUV1H030KCN C245 ECUV1H21KE R41 ERJ6GEYJ103V RJ6, 7 ERJ3GEY0R00V <							235	
R25, 27 ERJ3GEYJ824V R222 ERJ6GEYJ153V 81 224, 225, 230, 242 R26 ERJ3GEYJ434V R230, 234 ERJ6GEYJ151V C39 ECEA1HKS010I 220, 242 R29 ERJ6GEYJ434V R232, 234 ERJ6GEYJ271V C41 ECUV1C223MBN C222 ECUV1H120JC R30 T ERJ6GEYJ82V R233 ERJ6GEYJ152V 60,86 C227 ECUV1H120JC R31, 33 ERJ6GEYJ821V R235 ERJ6GEYJ62V C48 ECEA1CKS100I C234 ECUV1H10JC R32 ERJ6GEYJ103V R236 ERJ6GEYJ121V C48 ECUV1H470KCN C236 ECUV1H10IKC R34, 42, 43 ERJ6GEYJ471V R236 ERJ6GEYJ121V C50 ECUV1H470KCN C236 ECUV1H10IKC R35, 38 ERJ6GEYJ223V CHIP JUMPERS C52, 76 ECUV1H470KCN C245 ECUV1H331KE R36, 39, 65, ERJ6GEYJ104V RJ6, 7 ERJ3GEY0R00V C57 ECUV1H680KCN C245 ECUV1H21KE R40 ERJ6GEYJ104V RJ6, 7 ERJ3GEY0R00V C59, 83 ECEA0GKS101I ECUV1H100DCV R				ERJ6GEYJ684V		FCUVICI047EN	C214,223,	ECUV1C1042FN
R26 ERJ3GEYJ434V R230,234 ERJ6GEYJ151V C39 ECEA1HKS0101 230,242 R28 ERJ6GEYJ434V R230,234 ERJ6GEYJ151V C41 ECUV1C223MBN C222 ECUV1H120H R30 T ERJ6GEYJ182V R233 ERJ6GEYJ152V C42,43,44, ECUV1H221KBN C226 ECUV1H120H R31,33 ERJ6GEYJ821V R235 ERJ6GEYJ682V 60,86 C48 ECEA1CKS1001 C236 ECUV1H101K0 R32 ERJ6GEYJ103V R236 ERJ6GEYJ121V C48 ECEA1CKS1001 C236 ECUV1H101K0 R34,42,43 ERJ6GEYJ103V R236 ERJ6GEYJ121V C50 ECUV1H470KCN C236 ECUV1H101K0 R35,38 ERJ6GEYJ717V CH1P JUNPERS C53 ECUV1H470KCN C245 ECUV1H331KE R36,39,65, ERJ6GEYJ104V RJ1~5, RJ11 ERJ6GEY0R00V C57 ECUV1H680KCN C245 ECUV1H221KE R37,68 ERJ6GEYJ105V RJ6,7 ERJ3GEY0R00V C59,83 ECEA0GKS1011 ECUV1H102KEN C42 C42 ECUV1H391GCN C45 C45 ECUV1H020CCN C44						20011010421 1		
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R36, 39, 65, ERJ6GEYJ223V RJ1~5, RJ11 ERJ6GEY0R00V C57 ECUV1H680KCN 69 R37, 68 ERJ6GEYJ104V RJ6, 7 ERJ3GEY0R00V C58, 65 ECUV1E103MBV R40 ERJ6GEYJ105V RJ6, 7 ERJ3GEY0R00V C59, 83 ECEA0GKS1011 R41 ERJ6GEYJ4R7V CAPACITORS 73 73 R51 ERJ3GEYJ103V C1, 2, 12, 13 ECUV1H102KBN C72 ECUV1H020CCN 61 C1, 2, 12, 13 ECUV1H102KBN C74 ECUV1C223MBV			CHIP JUMPE	RS				
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61 61 C1, 2, 12, 13 ECUVINIOZNON C74 ECUVIC223NBV				T				
		ERJ3GEYJ104V	C1, 2, 12, 13	ECUV1H102KBN				
			40,69,87					
				RCSTOGX226RR				
R54 [ERJ3GEYJ4R7V] CA 15 [FCFA0JKS2201] C88,89 [ECUV1C153MBN]								
K55 EKJ3GEYJ153V C5 6 FCIIV1H101KCN C90,91 ECUV1C473MBN								
K56 [ERJ3GEYJ152V] C7 8 30 32 FCHV1H472KRV] C201, 202 [RCST0GY475KE]								
[K09] [EKJ3UETJ4/3V] [C0.78] [FCIV1H881KRN] [C203,233] [ECUVNCIV52FN]				ECUV1H681KBN	C203,233	ECUVNC105ZFN		
R60 ERJ3GEYJ472V C10-11-25- ECUVNC105ZEN								
R64 [ERJ3GEYJ470V] 26,77,85	R64	ERJ3GEYJ470V						

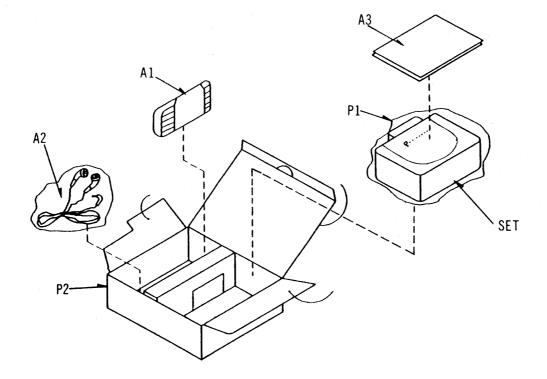
MEASUREMENTS AND ADJUSTMENTS

ADJUSTMENT POINT

Please refer to the Printed Circuit Board and Wiring connection Diagram for test point locations.



PACKAGING



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ALIGNMENT INSTRUCTION

•TUNER SECTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

- 1. Set volume control to maximum.
- 2. Set band selector switch to AM or FM.
- 3. Set Function selector switch to radio or tape.
- Set Tape Selector Switch to normal.
 Set power source voltage to 3.0V DC.
- 6. Output of signal generator should not be higher than necessary to obtain an output reading,
- 7. Make sure heads are clean.
- 8. Make sure capstan and pinch roller are clean.

BAND	BAND	AND SIGNAL GENERATOR or SWEEP GENERATOR CONNECTIONS FREQUENCY		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or	ADJUSTMENT	REMARKS
				oerning.	OSCILLOSCOPE)	1 0111	
				AM-IF AD.	JUSTMENT		
-	AM	Fashion a loop of several turns of wire and radiate signal into loop of receiver.	450kHz 30% Mod. at 400Hz	Point of non- interference. (on/ about 600 kHz)	Headphones Jack (16 Ω) (Refer to Fig. 3)	T1 (AM IFT)	Adjust for maximum output.
		· · · · · · · · · · · · · · · · · · ·		AM-RF AD	JUSTMENT		
	AM	"	531 kHz	Tuning capacitor fully closed.	"	L3 (AM OSC Coil)	Adjust for maximum output.
-	АМ	"	630 kHz	Tune to signal.	"	(* 1) L4 (AM ANT Coil)	Adjust for maximum output. Adjust L4 by moving coil bobbin along ferrite core.
	АМ	//	1494 kHz	11	"	CT 1 (AM ANT Trimmer)	Adjust for maximum output. Repeat steps (2) \sim (4).

(*1) Cement antenna bobbin with wax after completing adjustment.

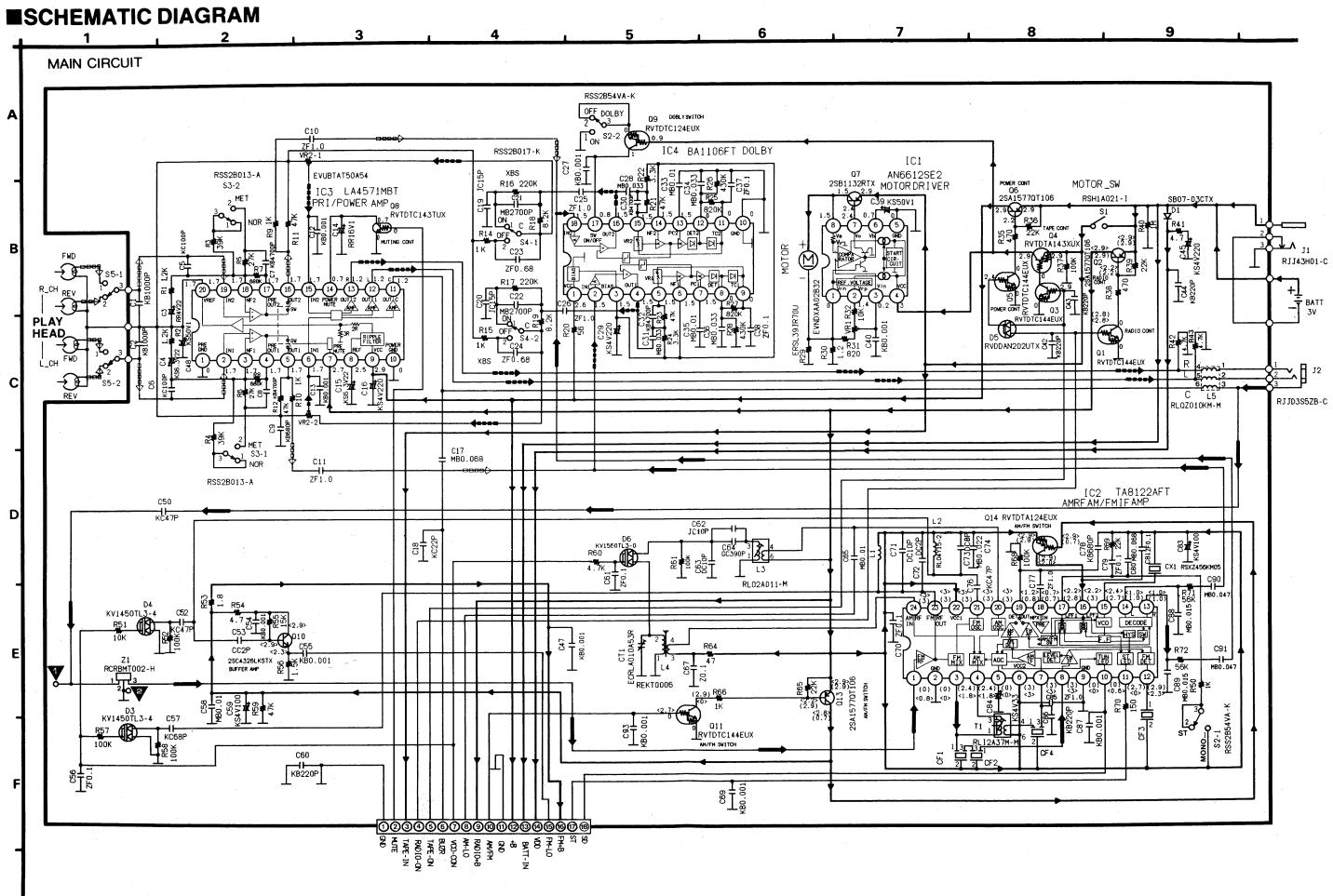
FM ADJUSTMENT

	BAND	SIGNAL GENE	RATOR	RADIO DIAL	INDICATOR (ELECTRONIC	ADJUSTMENT	REMARKS
	DAND	CONNECTIONS FREQUENCY		SETTING	VOLTMETER or OSCILLOSCOPE)	POINT	newianka
		,		FM-RF AD	JUSTMENT		
(1)	FM	Connect to test point V through FM dummy	87.5 MHz	Variable capacitor fully closed.	Headphones Jack (16Ω) (Refer to Fig.3)	L2 (FM OSC Coil)	(*2) Adjust for maxi- mum output.
(2)	FM	antenna. Negative side to test point	90.1 MHz	Tune to signal.	"	L1 (FM ANT Coil)	"
	(+2) Three output responses will be present; proper tuning is the center frequency.						

• TAPE DECK SECTION

ITEM	INPUT	MEASUREMENT POINT	ADJUSTMENT POINT	PROCEDURE
(A) Azimuth	QZZCFM (8kHz, —20dB)	Headphones Jack (16Ω) /Fabricate the plug as	screw	Adjust the azimuth adjustment screw during repeated forward and reverse playback to obtain the maximum head azimuth allgnment with both channels equal. Then screw-lock the adjustment in place.
(B) Tape speed	QZZCWAT (3kHz, —10 dB)	connect the lead wires of the plug to the measuring (instrument.	VR1 (Refer to Fig. 1)	Playback the central part of the tape and adjust VR 1 so that the tape speed is as follows. 3000 ± 60 Hz (Forward & Reverse)

RQ-V203 RQ-V203



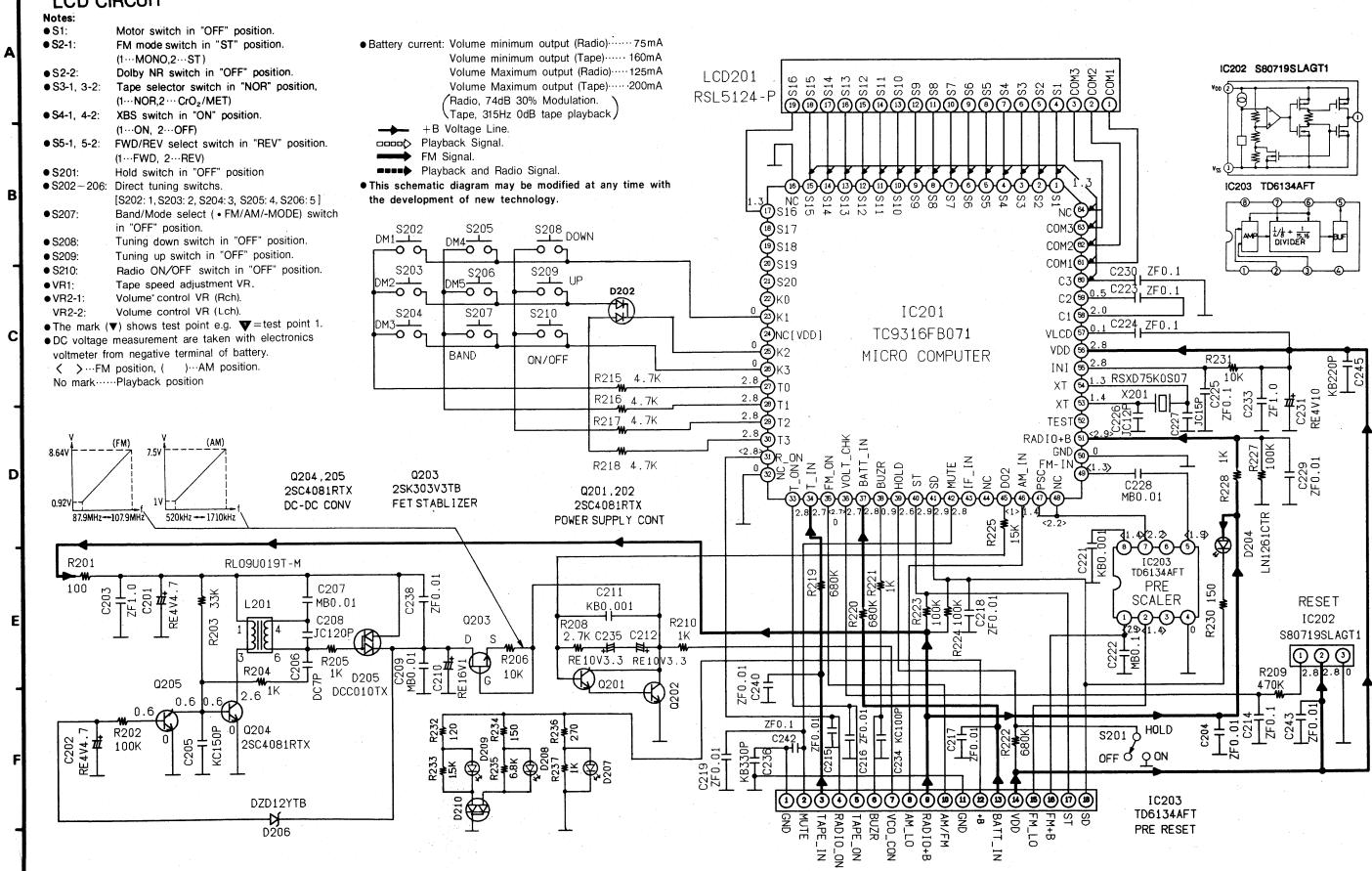
-7-

-8-

RQ-V203 RQ-V203

SCHEMATIC DIAGRAM

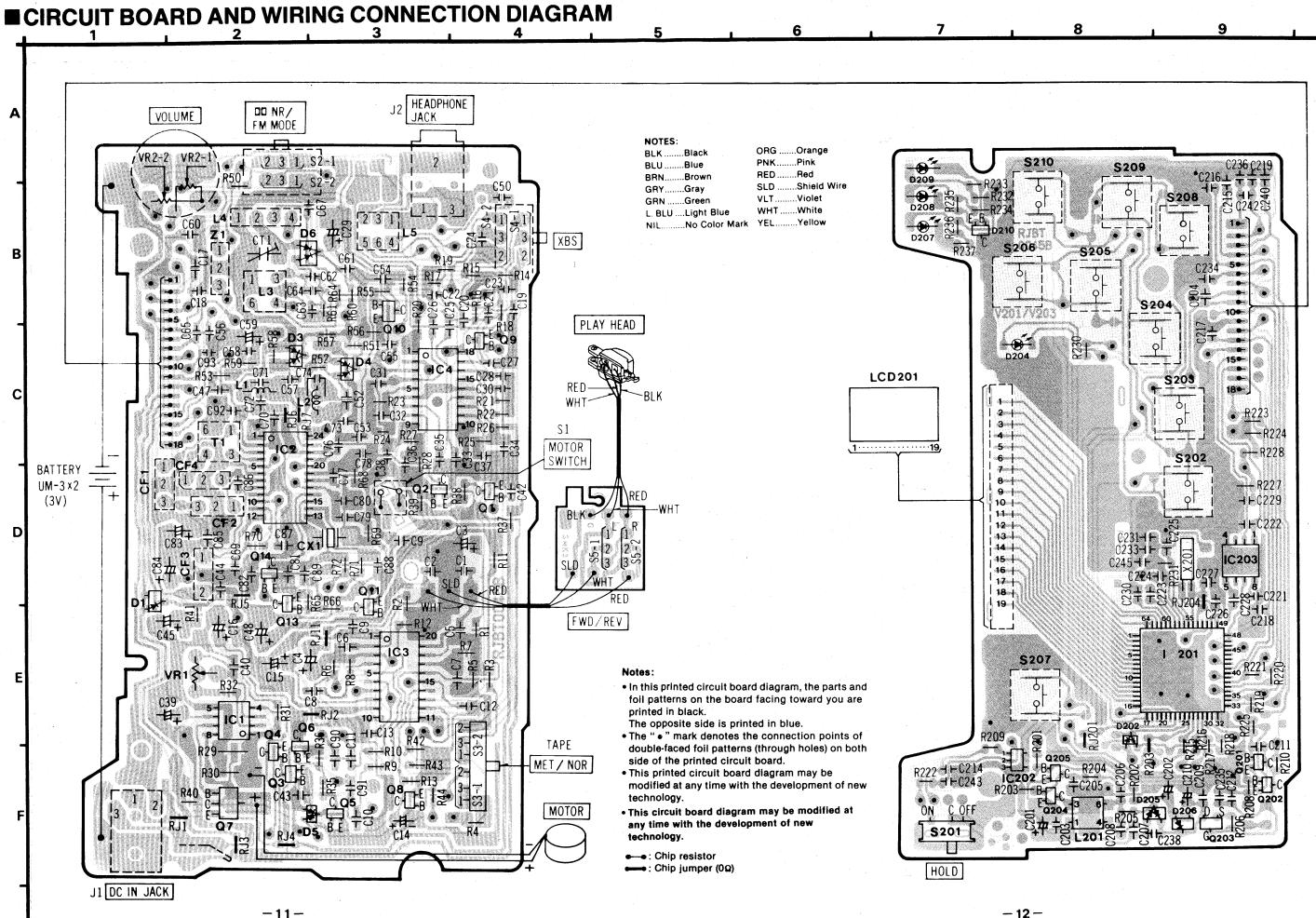
LCD CIRCUIT



-9-

-10-

RQ-V203 RQ-V203



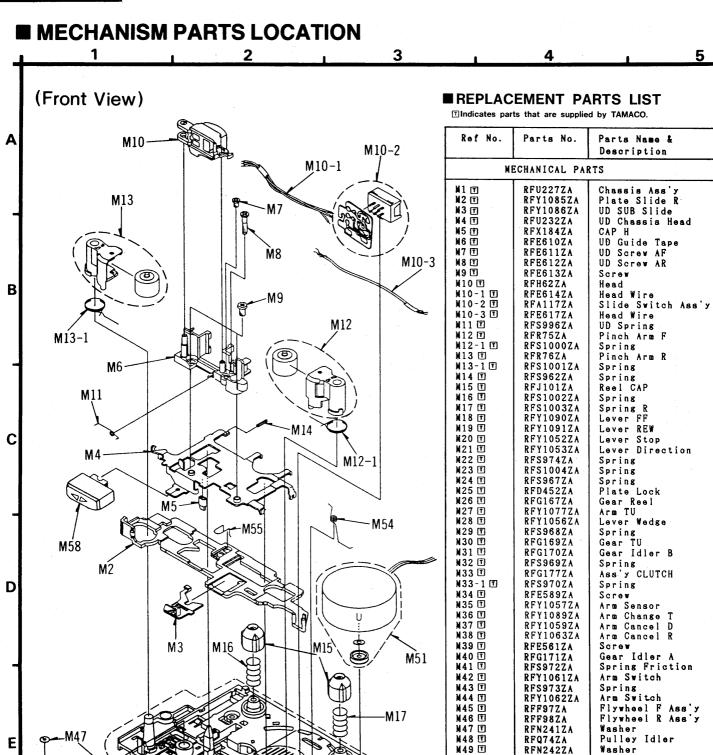
TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

IC1	John John John John John John John John		6,8~11 ,13,14, 1,202,204,205.	Cathode Anode D3,4,5,6,202
IC2	IC202	B _C E Q7	s D Q 203	Anode A Ca D204,207, 208,209.
IC3	8 FRF 1 IC 203	и и и и и и и и и и и и и и и и и и и	Anode D1,206.	Cathode Anode Cathode D205

TERMINAL FUNCTIONS OF IC

•IC201 (TC9316FB071): SYSTEM CONTROL & LCD DRIVE

		r		r		T		
Terminal No.	Terminal Name	1/0	Function	Terminal No.	Terminal Name	1/0	Function	
1 ∽15, 17	LCD1 ر LCD16	0	Outputs terminals for LCD segment signals.	42	MUTE	0	Muting signal output terminal.	
16,18 ~ 21,32,43 44,48,64	NC		Not connected	45	VCO CON	0	PLL error output terminal.	
22 1 23	KO KI	1	Terminals for Key return signal input.	46	VCOL (AM IN)	I	Inputs the local oscillator (VCO) (0.5~40MHz)	
23 24,56	VDD		Power terminal.	47	PSC	0	Counter input prescaler.	
25 5 26	K2 \ K3	1	Terminals for Key return signal input.	49	VCOH (FM IN)	I	Inputs the local oscillator (VCO) (10~130MHz)	
			Key return signal source	50	GND	[_]	For ground connection.	
27 ب 30	TO 5 T3	0	output terminals for momentary switch on the key matrix.	51	RADIO B [⊕]	I	Radio switch ON radio signal unused on this unit.	
31	RADIO ON	0	Radio ON outputs the power	52	TEST	. 1	Test terminal.	
31			out terminal.	53			Terminals used for	
33	TAPE ON	0	Tape ON outputs the power out terminal.	ر 54	ХТ	0	connecting a quartz oscillator.	
34	TAPE IN		Data signal input terminal Band select output	55	/INI	1	Device select signal input	
35	AM/FM	0	terminal.				terminal.	
36	VCHK	1	Inputs the battery	57	VLCD			
			voltagedet signal.	58	C1		Condenser external	
37	BATT IN	1	Data signal input terminal	59	C2	-	terminals.	
38	BEEP	0	Outputs the buzzer out terminal.	60	СЗ			
39	HOLD	1		61 (COM1	0	Outputs terminals for LCD	
40	/ST	I	Data signal input terminal	63	СОМЗ		common signals.	
41	/SD	1				-	•••••••••••••••••••••••••••••••••••••••	



SPECIFICATIONS

F

Pressure of Pressure roller	160gr				
Wow & flutter	Less than 0.5% (WRMS)				
Playback torque	20~ 45gr-cm				
FF torque	50~150gr-cm				
REW torque	50~150gr-cm				

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M1

M50 🗊

M51 🗹

M52 (T)

M53 🗹

N54 T N55 T N56 T

M57 1

M58 🔳

M59 T M60 T RFB129ZA

RFM195ZA

RFE616ZA

RFN253ZA

RFS986ZA RFS995ZA RGUT0039-

RGUT0040

RGUT0041 -

RGUT0042-K

RGUT0043-K

Belt

Washer

Spring Spring Change FF, Button

Motor Ass'y

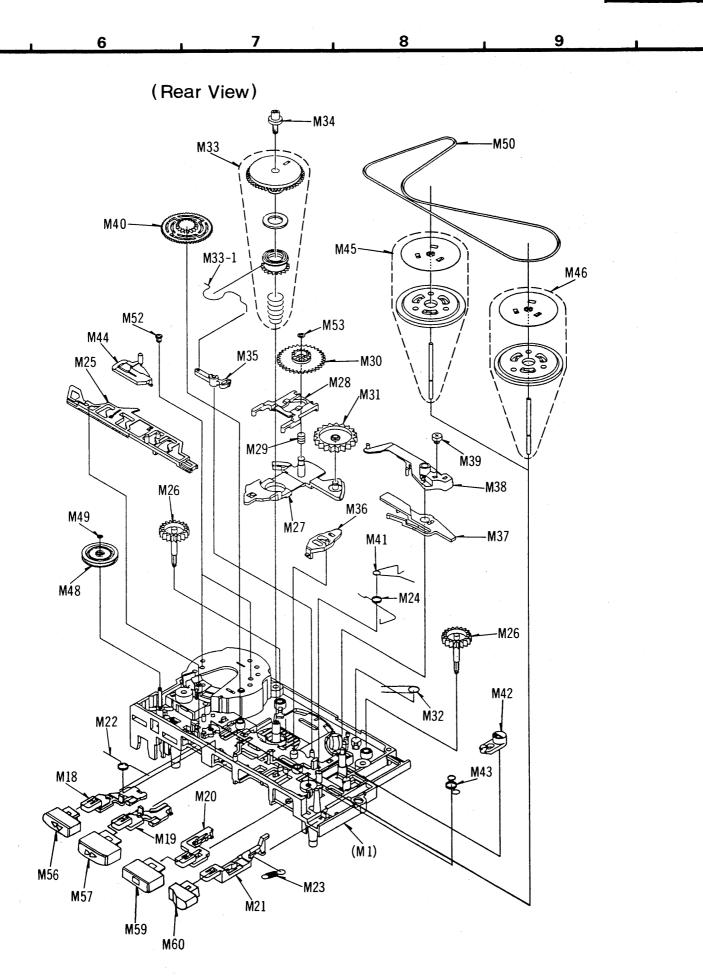
Screw. Notor

REW, Button

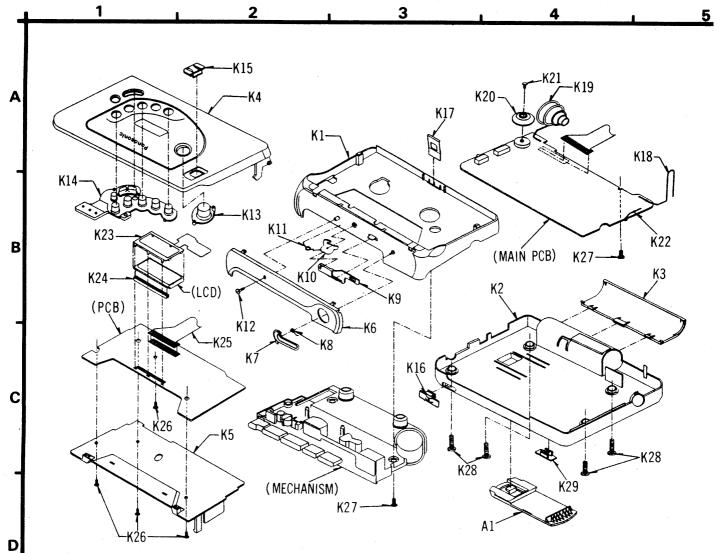
PLAY, Button

STOP, Button

Direction, Button



CABINET PARTS LOCATION



REPLACEMENT PARTS LIST

Ε

F

Notes: Indicates parts that are supplied by TAMACO

Ref. No.	Parts No.	Parts Name & Description
	CABINET PART	S
K1 T K2 T K3 T K4 T K5 T K6 T K7 T K8 T K10 T K11 T K12 T K13 T K12 T K13 T K15 T K16 T K17 T K18 T K19 T K20 T	RKNT0015D-K RFKKQV203GC RKKT0007-K RKFT0020-Q RKUT0001-K RKQT0004-S RGWT0011-S RMBT0008 RNNT0008 RNNT0008 RNNT0008 RNNT0007 RHDT0002-S RGUT0036-K RGVT0020-K RGVT0020-K RGVT0020-K RUS231TZB RJCT30010 RJCT70001-1 RGWT0007-K	Front Cabinet Rear Cabinet Ass'y Battery Cover Cassette Cover Cassette Holder Upper Cabinet Open Knob Spring Link Lock Cam Lock Spring Screw Band Button DIR/Tuning Button Hold Knob XBS Knob Tape Spring Battery Terminal (+) Battery Terminal (-) Volume Knob

Ref No.	Parts No.	Parts Name & Description
K21 T	XSH17+3.5	Screw (Volume)
K22 T	RNET0002	Earth Terminal
K23 T	RNNT0022	LCD Holder
K24 T	RSQT0002	Electric Gum
K25 T	RJBT0019A-2	FPC PWB
K26 T	XTNR17+4CFZ	Screw
K27 T	RHD006TZA	Screw
K28	XTNR2+10CFZ	Screw (CAB)
K29 T	RGVT0010-K	Tape Knob
	ACCESSORIES	
A1 T	RKQT0002-K	Belt Clip
A2 T	RFEV310P-KS	Innerphones
A3 T	RQTT0168-G	Instruction Book
	PACKING NATE	RIALS
P1 T	RPFT0015	Set Bag
P2 T	RPKT0099	Decoration Box