Parts Locations and Disassembly Instructions

Antenna Trimmer Adjusting Screw (CT51)

Treble Push Bass Control Shaft (OUTER)

Tuner Dial Scale

Music Sensor Indicator

Tape Run Indicator

Music Sensor Switch

Eject Switch

Balance Control Shaft (OUTER)

Cassette Loading Slot

Volume Push Radio ON/OFF Control Shaft (INNER)

Tuning Control Shaft (INNER)

Rewind Button

Fast Forward Button

Loudness Switch

Dolby* Noise Reduction Switch

Dolby* Indicator

FM/AM Band Select

FM Mute Switch

FM Stereo Indicator

Metal Stereo Dual Function Switch (FM: STEREO/MONO TAPE: NORMAL/METAL)

Figure 1

DIN Jack (J2) (For Alpine Model 4010 Engine Noise Suppressor)

Output DIN Jack (J3)

Antenna jack (J1)

Ground Lead (J6)

To power antenna (J4)

To ignition switch (J5)

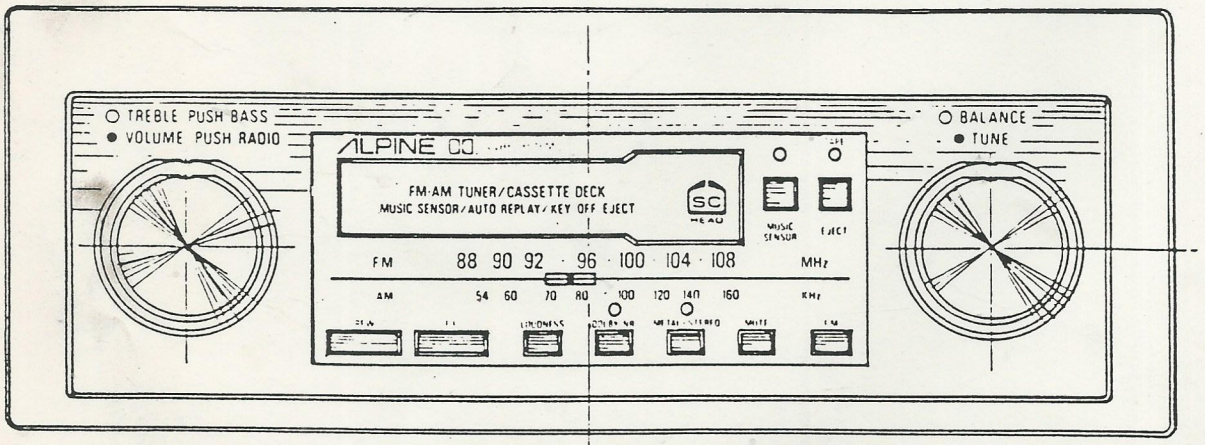
Fuse 3A

Figure 2

ALPINE SERVICE MANUAL

FM/AM

Tuner Cassette Deck



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Specifications

AM RADIO

Intermediate Frequency	455 kHz
Frequency Range	525 kHz to 1620 kHz
Sensitivity (20 dB Signal to Noise Ratio)	20 μV
Signal to Noise Ratio (1000 kHz)	40 dB
Image Rejection (1400 kHz)	50 dB

FM RADIO

Intermediate Frequency	10.7 MHz
Frequency Range	88 MHz to 108.5 MHz
Limiting Sensitivity	2 μV
Signal to Noise Ratio (Mono)	55 dB
Image Rejection	40 dB
Stereo Separation	400 Hz, 1.000 Hz/25 dB 10.000 Hz/20 dB

TAPE PLAYER

Tape Speed (MTT-111)	4.76cm/sec. (+3%, −1%)
Signal to Noise Ratio (MTT-112)	40 dB
Frequency Response (MTT-216)	80 Hz ∿ 8.000 Hz (−3 dB)
Fast Forward & Rewind Time	100 sec. (C-60)
Wow & Flutter (MTT-111)	0.2% (JIS WRMS)
Crosstalk (MTT-121)	40 dB

GENERAL

Power Supply	14.0VD.C.
Output Power (Pre-Out)	1.0V/10k ohm
Semiconductors	9 ICs, 24 Transistors, 20 Diodes, 3 Zener Diodes
Dimensions	160(W) x 50(H) x 140(D) mm
Weight	1.4Kg.

Parts Locations and Disassembly Instructions

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Tuner Dial Scale

Music Sensor Indicator

Tape Run Indicator

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Output DIN Jack (J3)

Antenna jack (J1)

Ground Lead (J6)

To power antenna (J4)

To ignition switch (J5)

Fuse 3A

Figure 2

1. **Removal of Top Cover**
   (1) Remove two screws marked " ○ " as shown in Figure 4.
   (2) Remove the top cover in the direction of the arrow as shown in Figure 4.

2. **Removal of Bottom Cover**
   (1) Remove two screws marked " △ " as shown in Figure 4.
   (2) Remove the bottom cover in the direction of the arrow as shown in Figure 4.

3. **Removal of Nose Piece**
   (1) Remove four screws marked " □ " as shown in Figure 3.
   (2) Remove the nose piece with care of lead wire.

4. **Removal of Rear Cover**
   (1) Remove nine screws marked " ♦ " as shown in Figure 4 and 5.
   (2) The rear cover can be completely removed.

5. **Removal of Radio P.C. Board**
   (1) Remove three screws marked " ● " as shwon in Figure 4 and 5.
   (2) Disconnect all wires from the P.C. Board.

6. **Removal of Pre-Out P.C. Board**
   (1) Remove two screws marked " ⊗ " as shown in Figure 3.
   (2) Disconnect all wires from the P.C. Board.

7 **Removal of Tuner Unit**
   (1) Remove five screws marked " ▲ " as shown in Figure 3, and then the side chassis (R).
   (2) Disconnect all wires from the tuner unit.

8. **Removal of Back Scale**
   (1) Remove two screws marked " ■ " as shown in Figure 6.
   (2) Disconnect all wires from the back scale.

9. **Removal of Switch P.C. Board**
   (1) Remove one screw marked " ★ " as shown in Figure 6.
   (2) Disconnect all wires from the P.C. Board.

10. **Removal of Volume P.C. Board**
   (1) Remove one nut and one washer as shown in Figure 7.
   (2) Disconnect all wires from the P.C. Board.

11. **Removal of Cassette Deck**
   (1) Remove two screws marked " ☆ " as shown in Figure 6 and 7.
   (2) Disconnect all wires from the cassette deck.

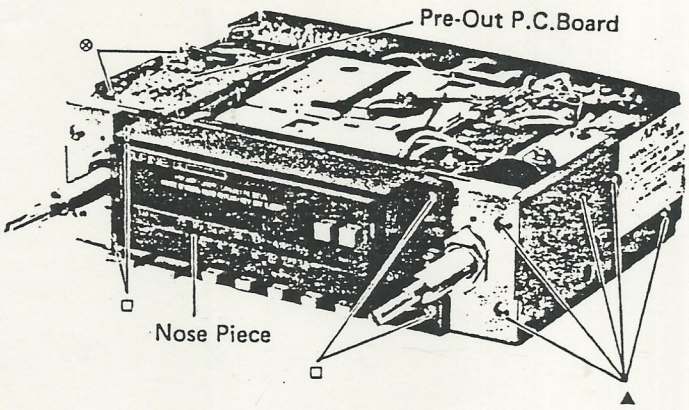


Figure 3

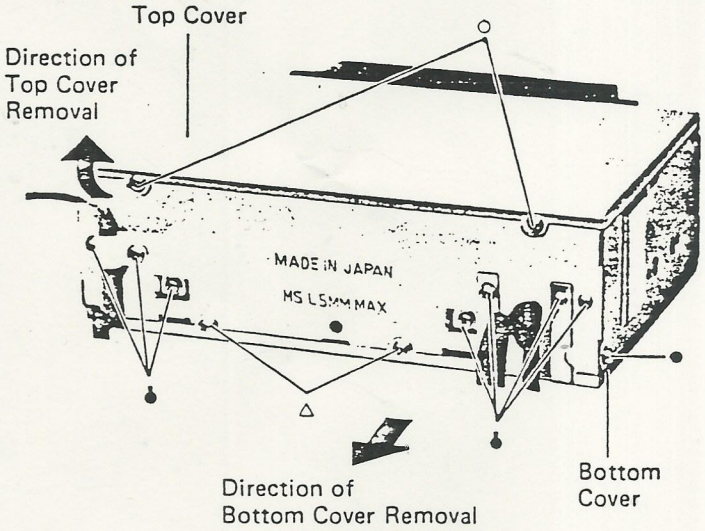


Figure 4

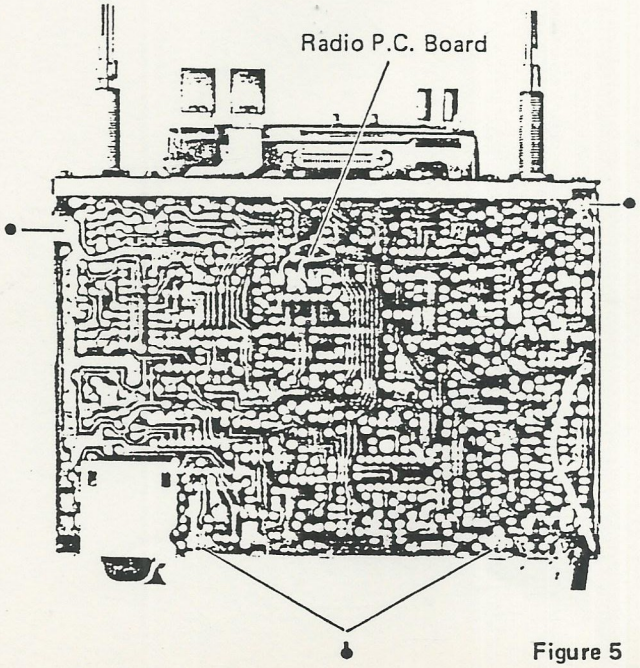


Figure 5

FM SECTION

(1) Dummy Antenna Circuit

for 50 ohm FM Signal Generator

(2) Connection

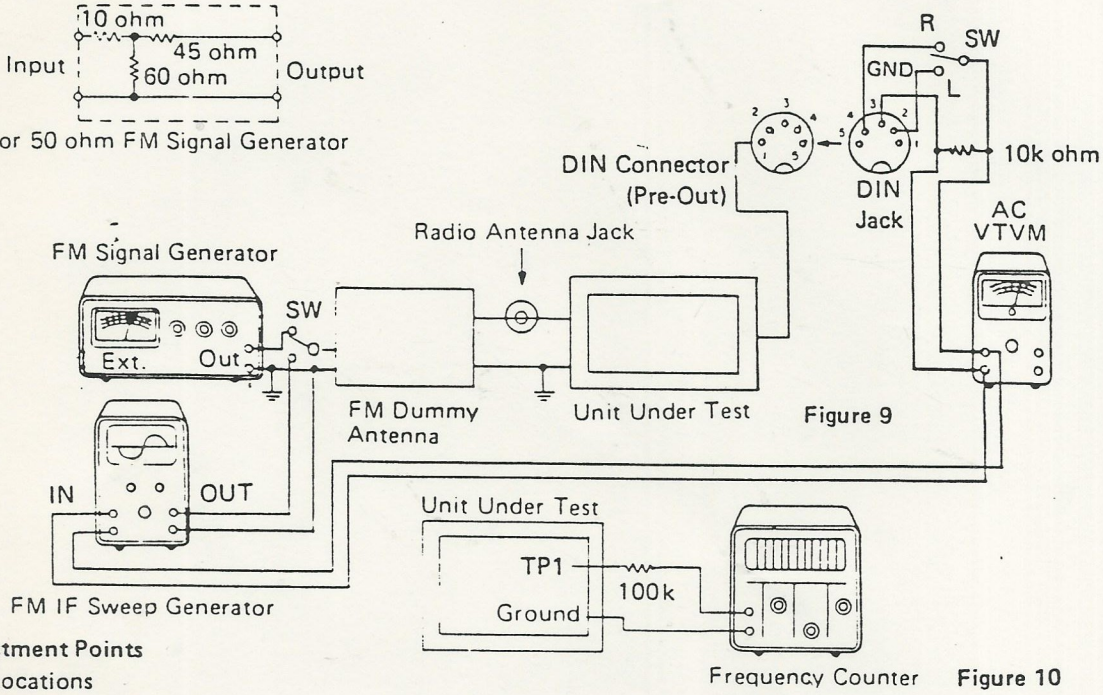


Figure 9

Figure 10

(3) Location of Adjustment Points

See Adjustment Locations

(4) Control Setting

Radio . . . . . ON
FM/AM . . . . . FM (IN)
Mute. . . . . OFF
Others. . . . . OFF

Balance Control . . . . . .Mech. Center
Treble Control . . . . . .Mech. Center
Bass Control . . . . . Mech. Center

(5) Adjustment Procedures

Step	Description	Connection	Generator Freq.	Dial Control	Adjust
1	IF Adjustment	Figure 9	10.7 MHz (Sweep Generator See Note)	Point of non-interference	IFT (Tuner), IFT1 for Optimum "S" Curve.
2	Free-Running Freq. Adjustment	Figure 10	No Signal		VR101 for 19 kHz.
3	Band Ends	Figure 9	109.5 MHz	Extreme High End	CT for Max. Output.
4	Muting Adjustment	Figure 9	5 μV Input at 98 MHz	Tune to 98 MHz Signal Mute: ON	VR1 for Faint Wave Coming.
5	AGC Adjustment	Figure 11	60 dBμ Input at 98 MHz	Tune to 98 MHz Signal	VR2 for 1V.

Note: Ceramic Filters for FM IF Adjustment are different in thier center frequencies as shown below.
Red: 10.7 MHz, Orange: 10.73 MHz, Blue: 10.67 MHz

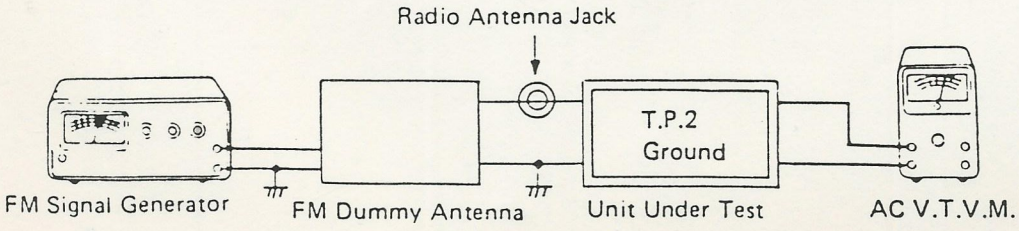


Figure 11

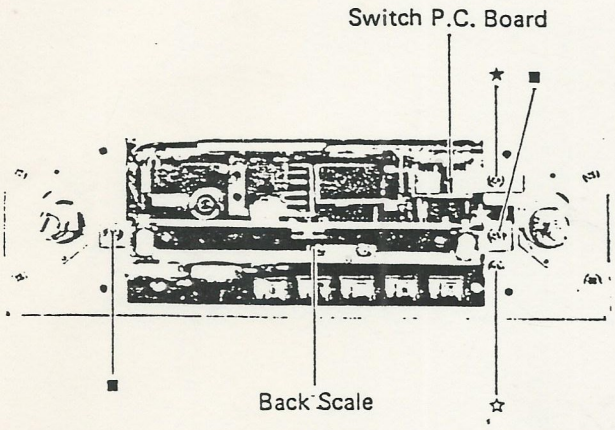


Figure 6

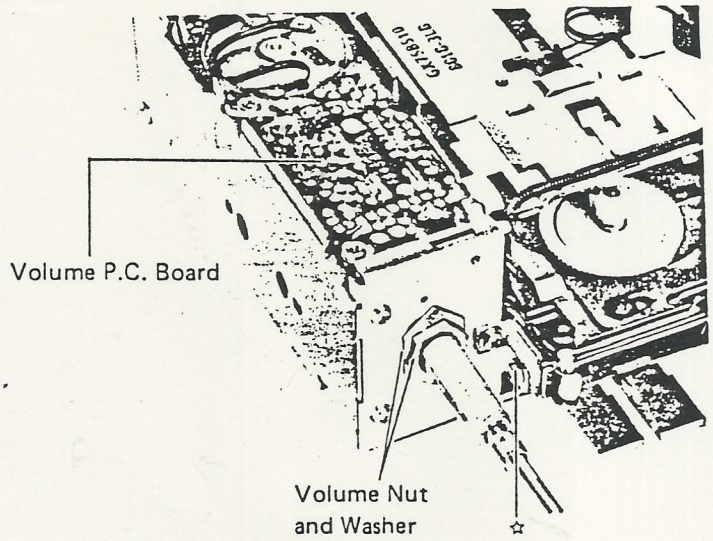
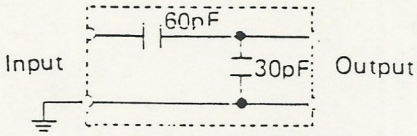


Figure 7

Adjustment Procedures

AM SECTION

(1) Dummy Antenna Circuit



for 50 ohm AM Signal Generator

(2) Connection

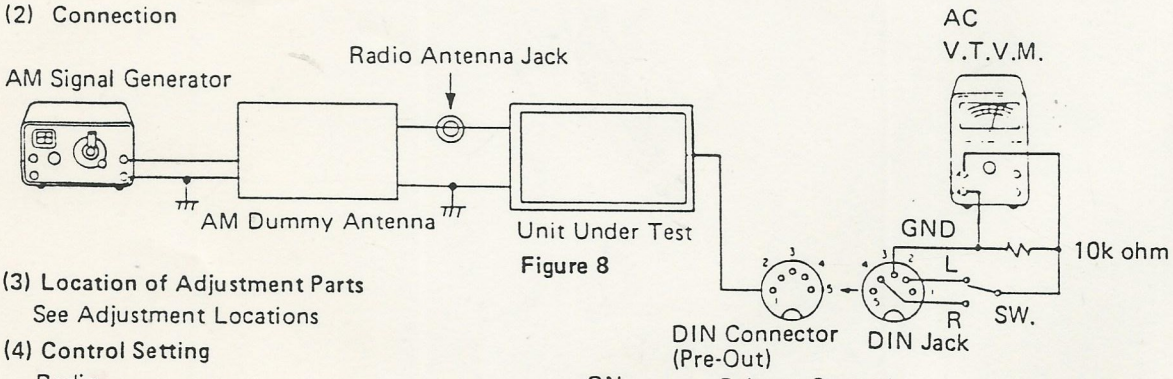


Figure 8

(3) Location of Adjustment Parts
See Adjustment Locations

(4) Control Setting

Radio . . . . . ON
FM/AM . . . . . AM (OUT)
Others. . . . . OFF

Balance Control . . . . . .Mech. Center
Treble Control . . . . . .Mech. Center
Bass Control . . . . . Mech. Center

Step	Description	Connection	Generator Freq.	Dial Control	Adjust
1	IF Adjustment	Figure 8	455 kHz 20 μV Output	Extreme Low End	IFT51, 52, 53, 54 for Max. output
2	Band Covering	Figure 8	1650 kHz 20 μV Output	Extreme High End	CT53 for Max. output
		Figure 8	510 kHz 20 μV Output	Extreme Low End	L53 for Max. output
3	Tracking	Figure 8	1400 kHz 20 μV Output	Tune to 1400 kHz Signal	CT51, CT52 for Max. Output

DOLBY NR CIRCUIT

FM Mode

(1) Connection

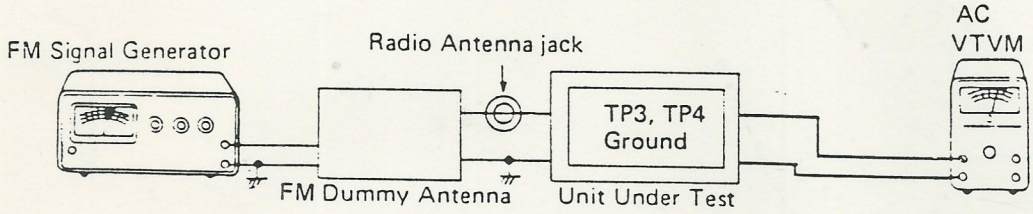


Figure 12

(2) Control Setting

Radio . . . . . ON
FM/AM . . . . . FM (IN)
Dolby . . . . . ON
Others . . . . . OFF

Balance Control . . . . . Mech. Center
Treble Control . . . . . Mech. Center
Bass Control . . . . . Mech. Center

(3) Dolby Level Adjustment Procedures

Step	Generator Freq.	Connection	Test Point	Adjustment Point	Dial Control	Remarks
1	98 MHz Mod. 400 Hz 100%	Figure 12	T.P.3 T.P.4	VR151 VR152	Tune to 98 MHz Signal	VTVM: 580mV

TAPE PLAYER SECTION

(1) Connection

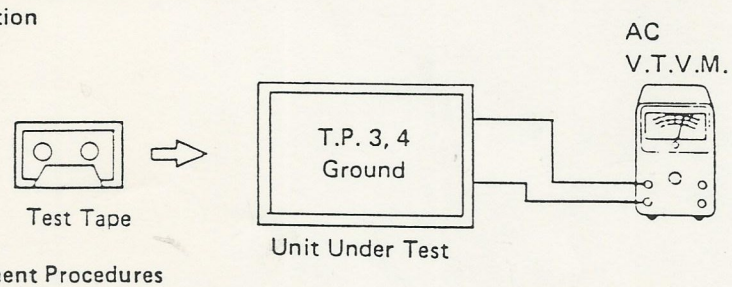


Figure 13

(2) Adjustment Procedures

Step	Description	Test Tape	Adjustment Point	Test Point	Remarks
1	Head Azimuth Adjustment	MTT-114 (10 kHz)	Azimuth Screw (See Figure 14)	T.P. 3 T.P. 4	VTVM: Max.
2	Dolby Level Adjustment	MTT-150	VR153 VR154	T.P. 3 T.P. 4	VTVM: 580mV Dolby: OFF

Adjustment Locations

Note:

For Antenna Trimmer (CT51) Adjustment, push the cassette door and you will see a trimmer adjusting screw located on the back of the cassette compartment as shown in Figure 1.

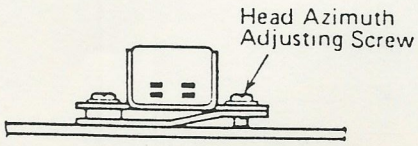
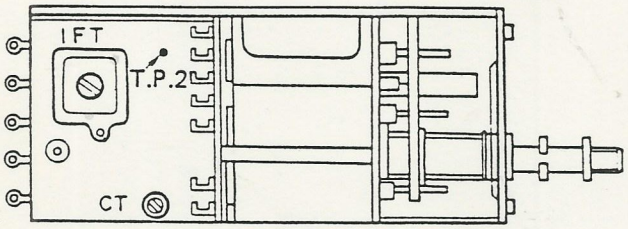
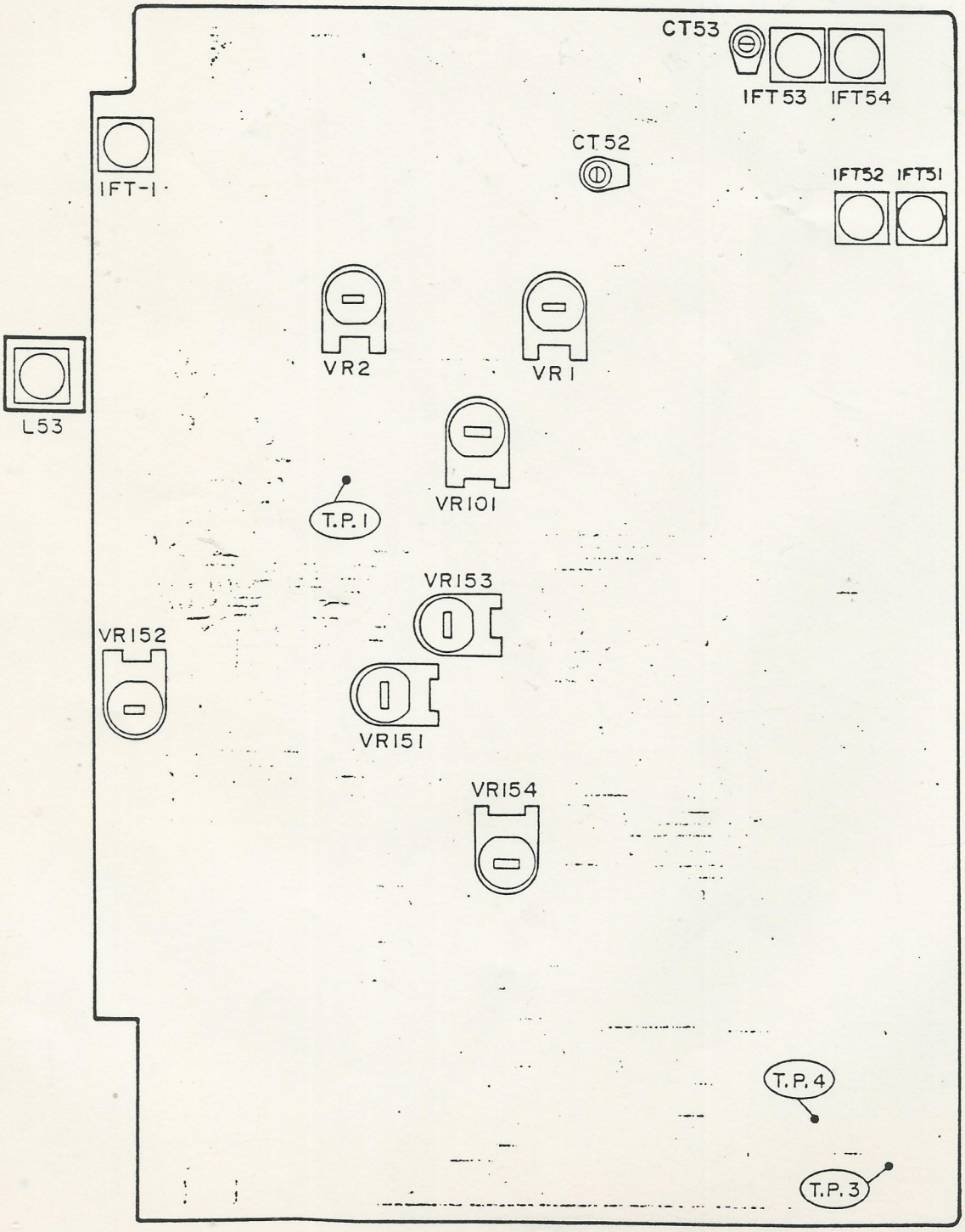


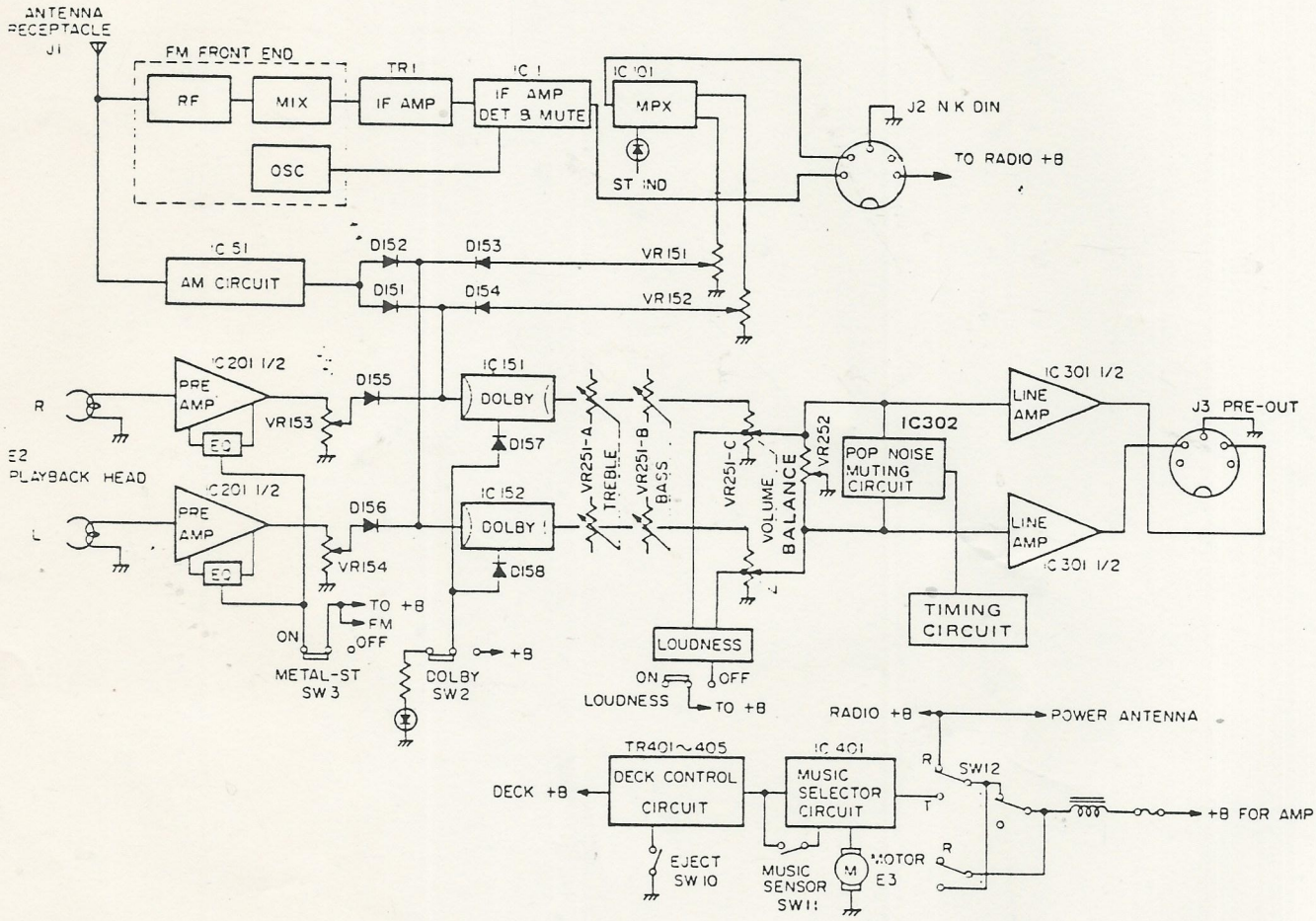
Figure 14



Tuner Assembly

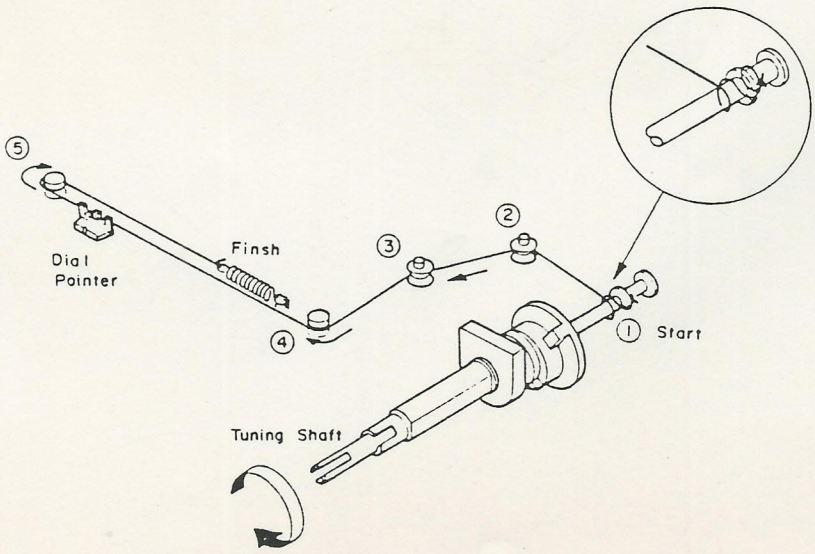


Block Diagram



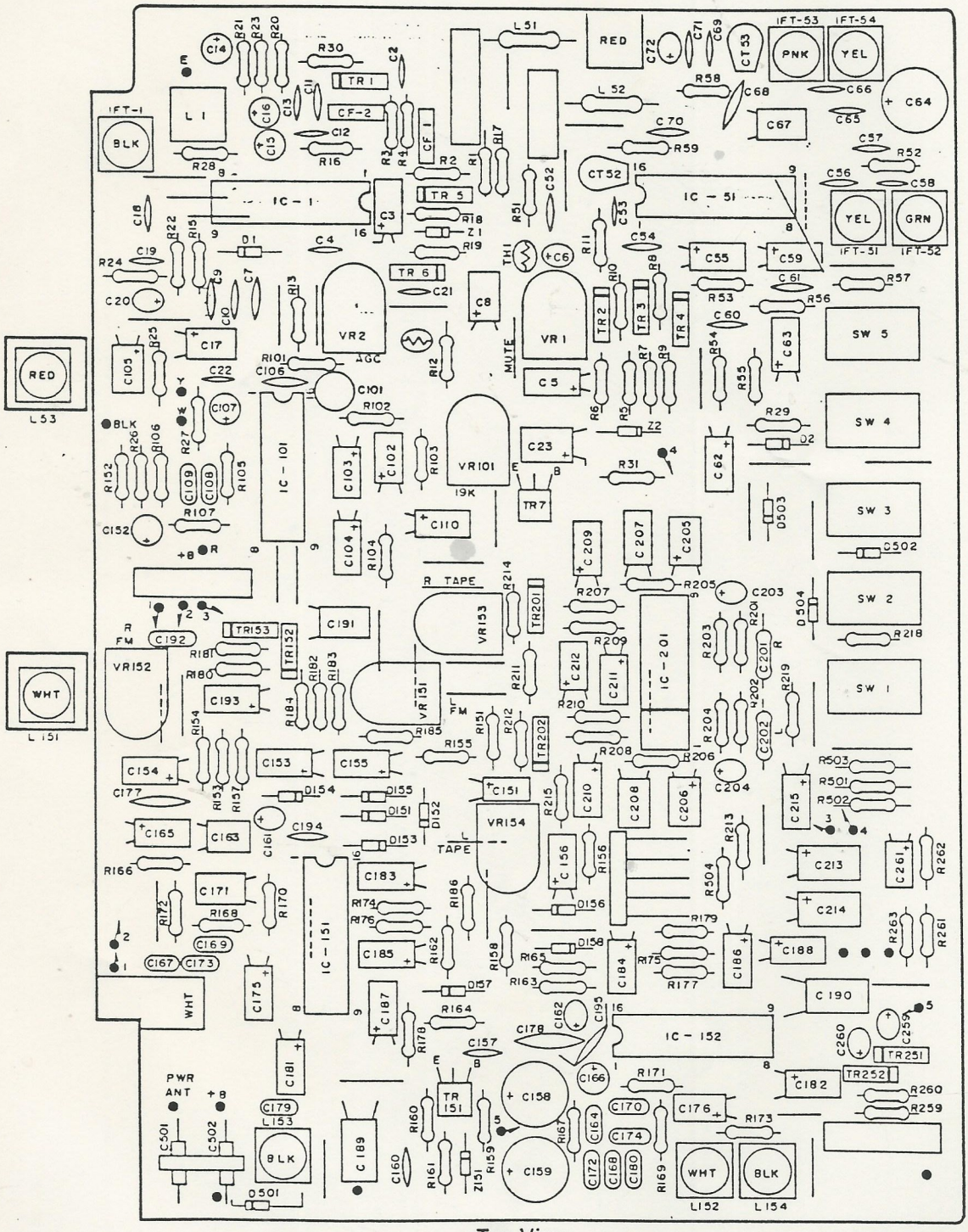
Dial Cord Stringing

(1) Set the tuning shaft fully counterclockwise position.
(2) Wind the dial cord in the numerical sequence as shown in the direction of the arrows.

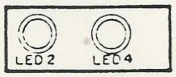


Parts Layout on P.C. Boards

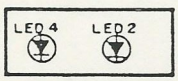
- Radio & Dolby P.C.Board



- LED P.C.Board

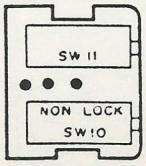


Top View

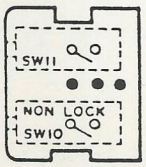


Bottom View

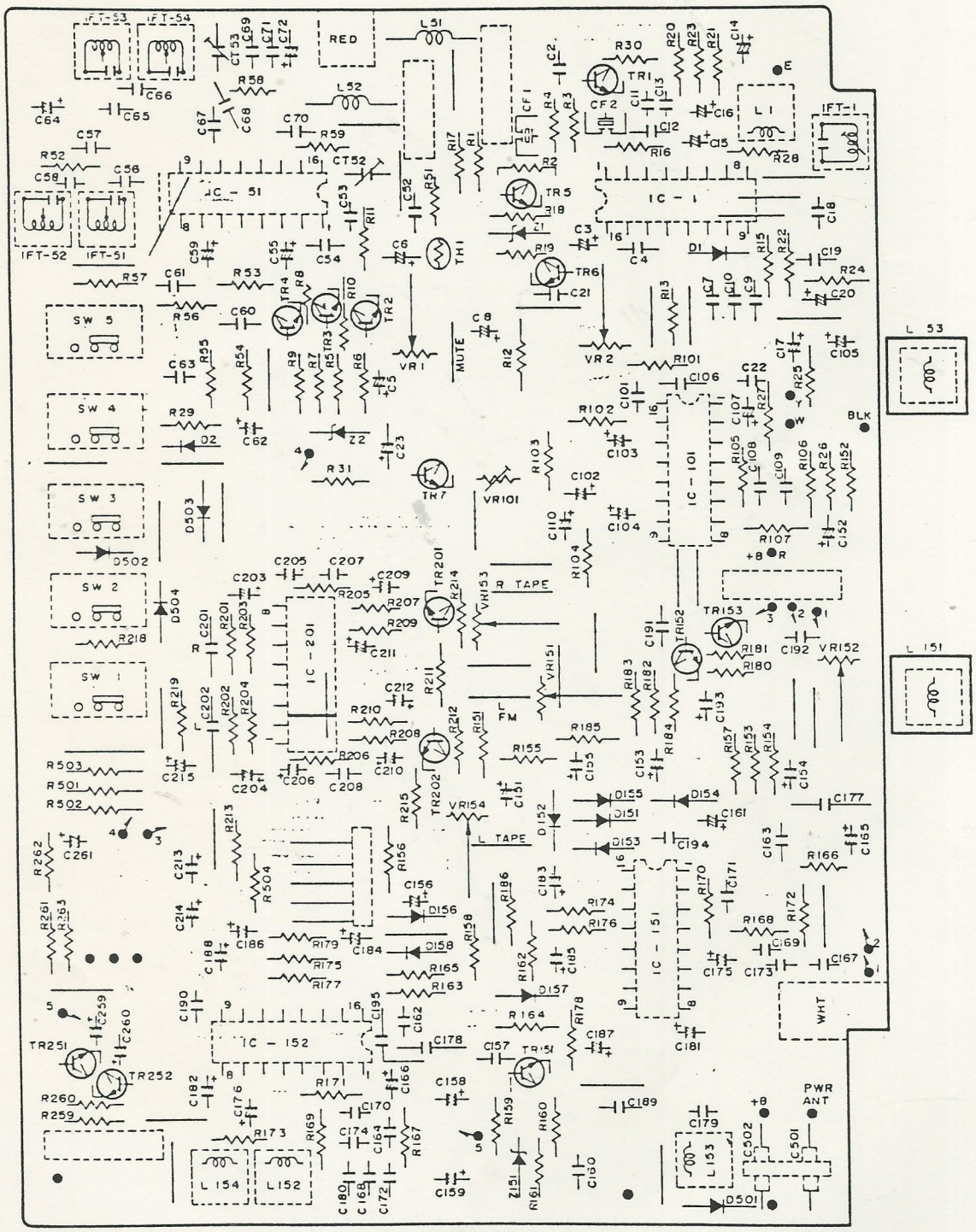
- Switch P.C.Board



Top View

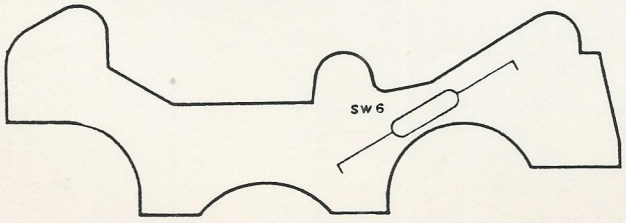


Bottom View

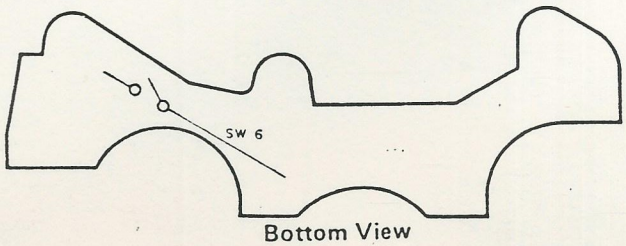


Bottom View

- Reed Switch P.C.Board

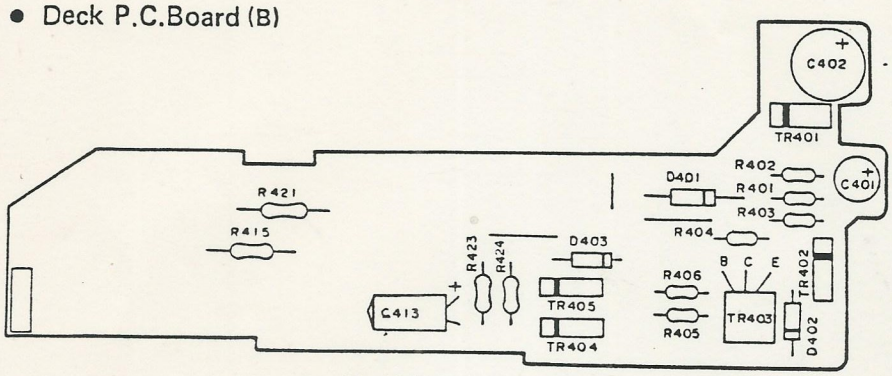


Top View



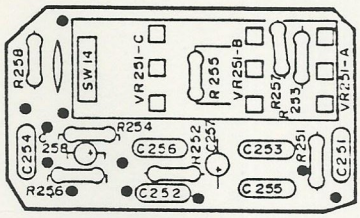
Bottom View

- Deck P.C.Board (B)

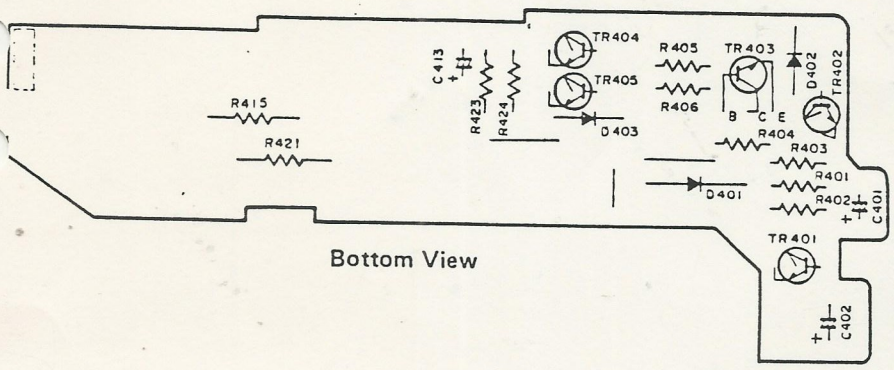


Top View

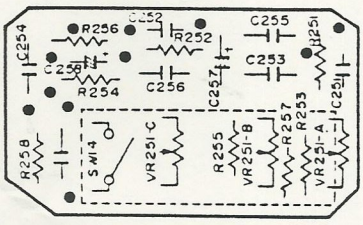
- Volume P.C.Board



Top View

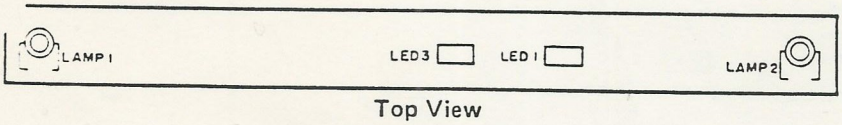


Bottom View

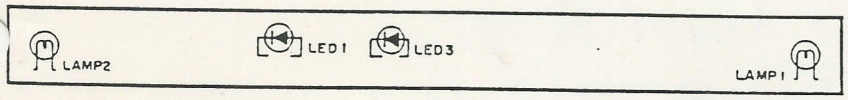


Bottom View

- Lamp P.C.Board

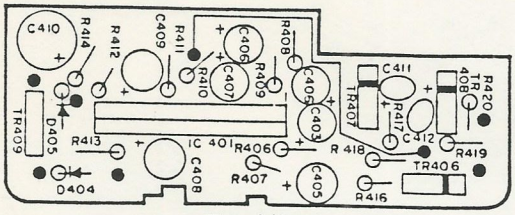


Top View

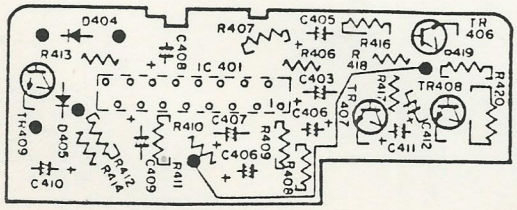


Bottom View

- Deck P.C.Board (A)

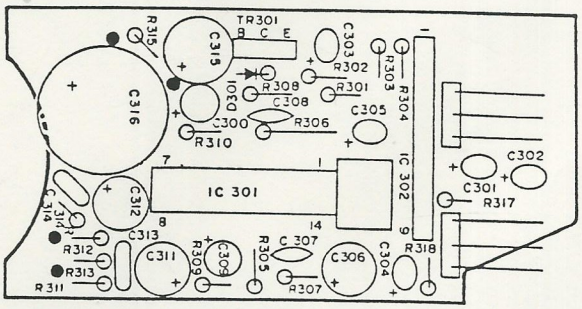


Top View

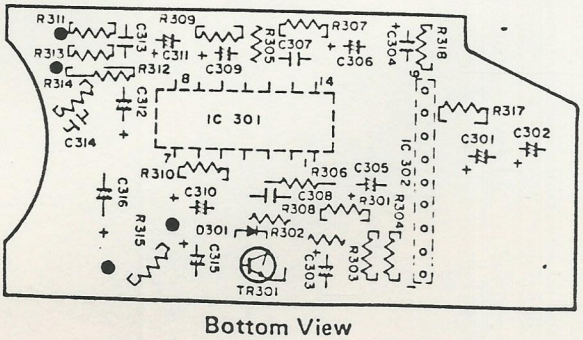


Bottom View

- Pre-Out P.C.Board

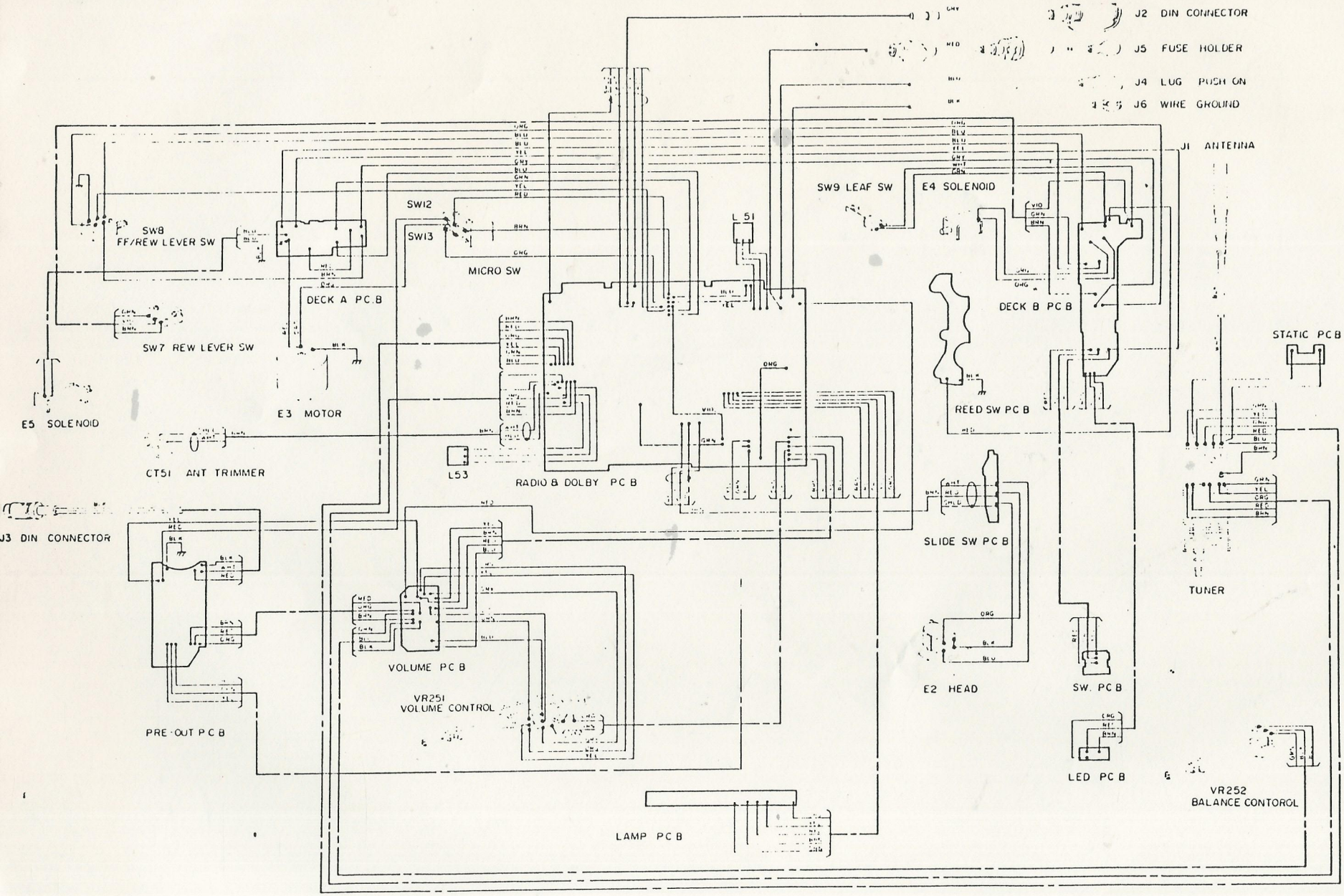


Top View

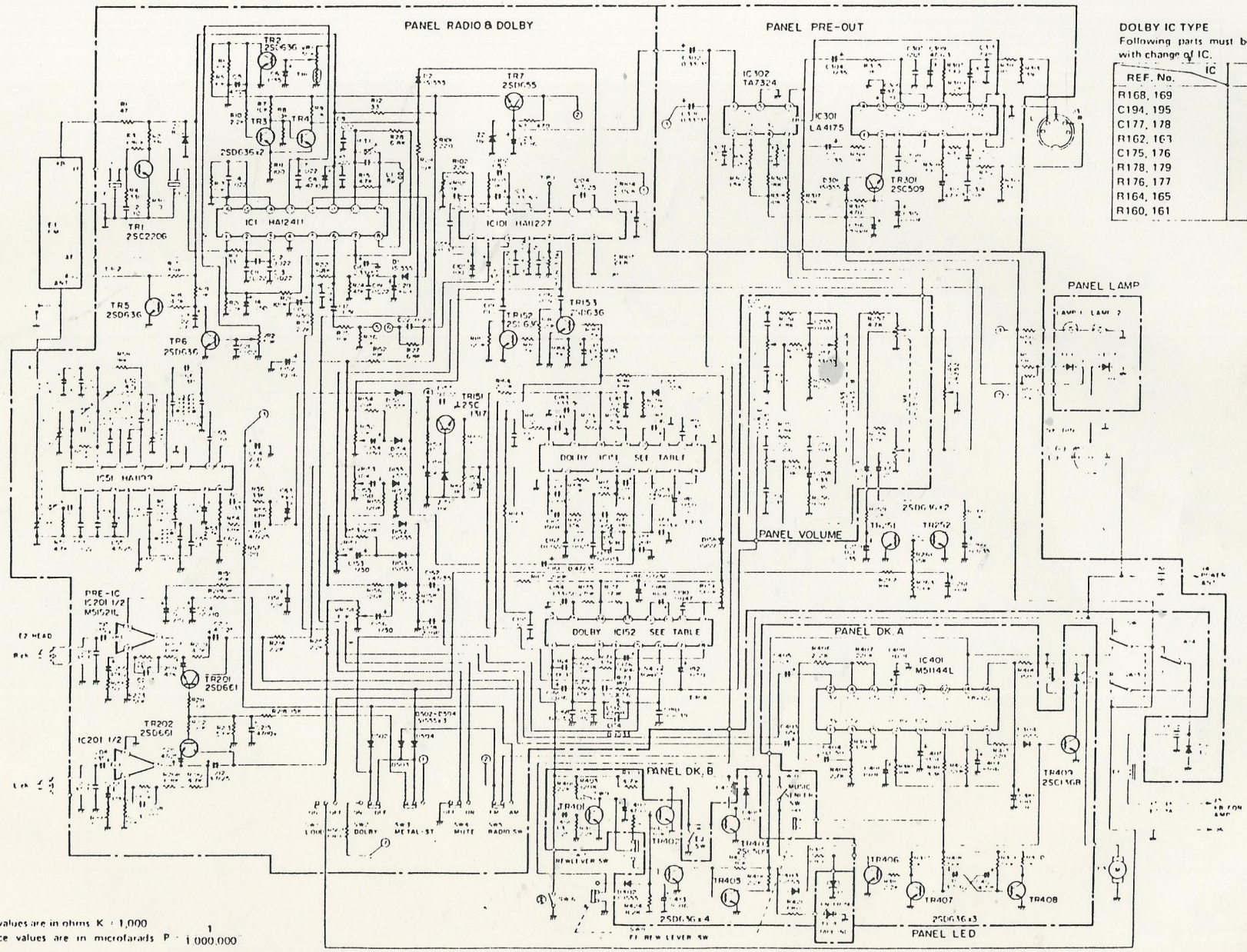


Bottom View

Wiring Diagram



Schematic Diagram



DOLBY IC TYPE

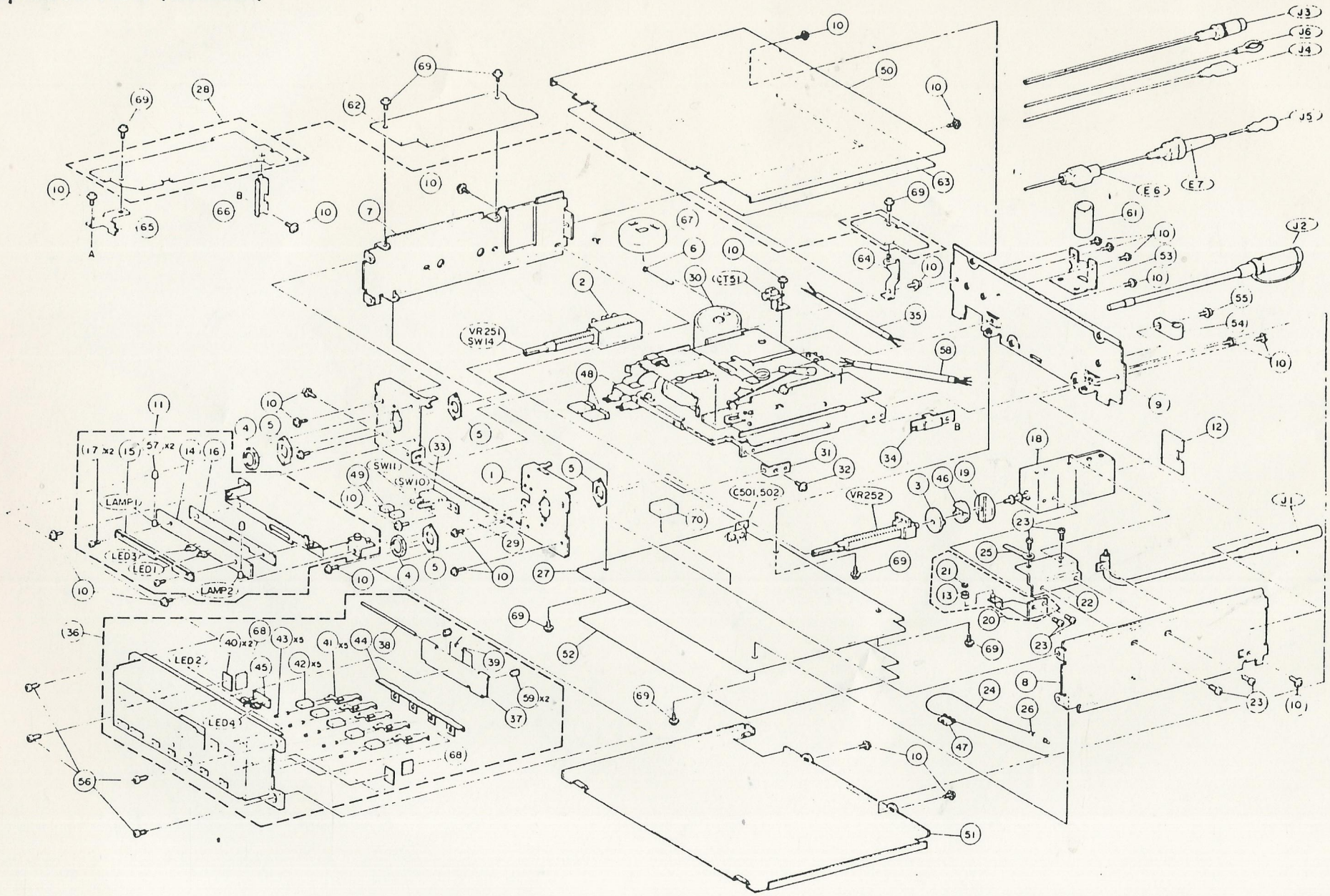
Following parts must be changed in accordance with change of IC.

REF. No. \ IC	NE645B	LM1011N
R168, 169	–	220K
C194, 195	–	0.1 μ
C177, 178	–	220P
R162, 163	JUMPER	22
C175, 176	–	10 μ
R178, 179	–	560K
R176, 177	–	270K
R164, 165	200K	–
R160, 161	1K	–

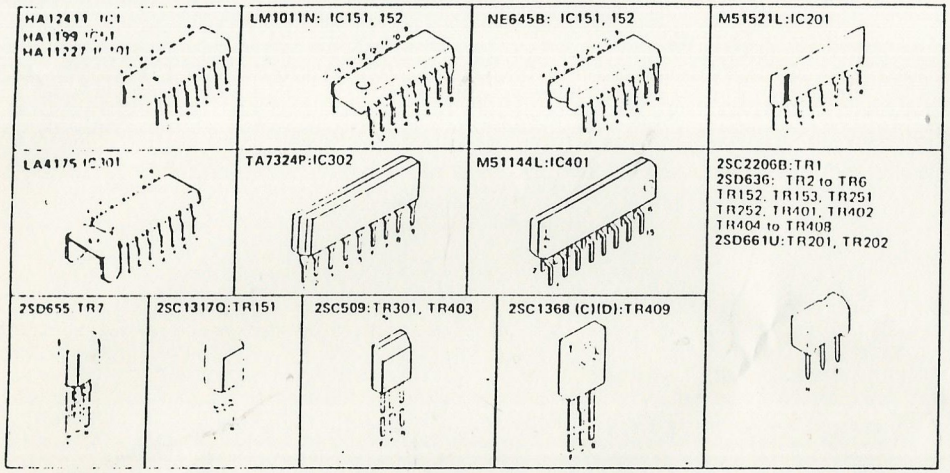
NOTES:

1. All resistance values are in ohms K = 1,000
2. All capacitance values are in microfarads P = $\frac{1}{1,000,000}$

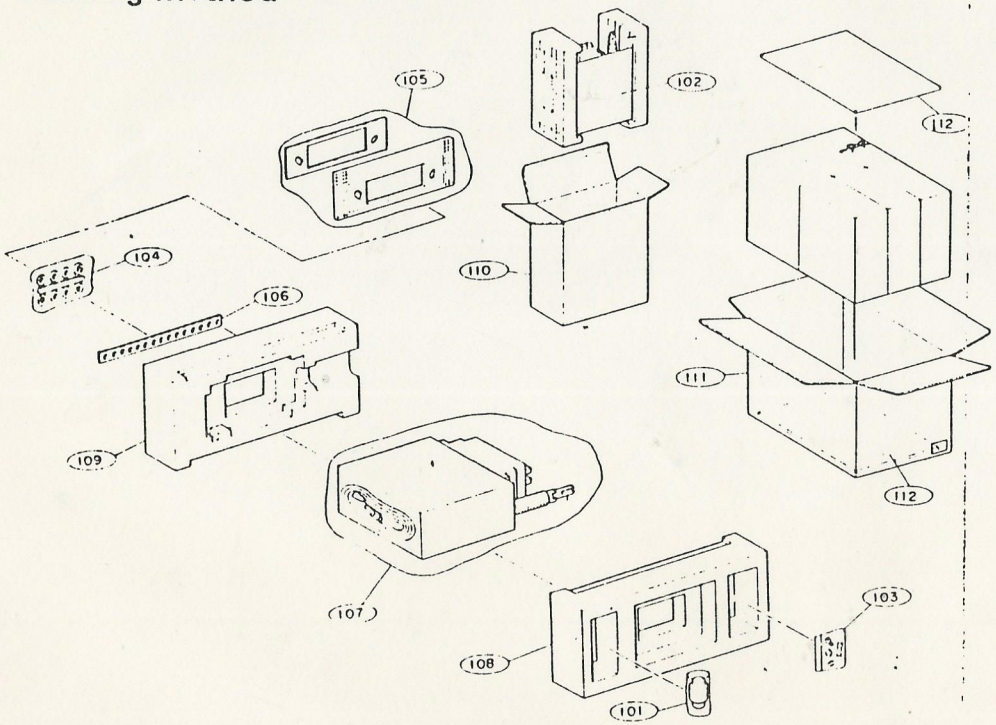
Exploded View (General)



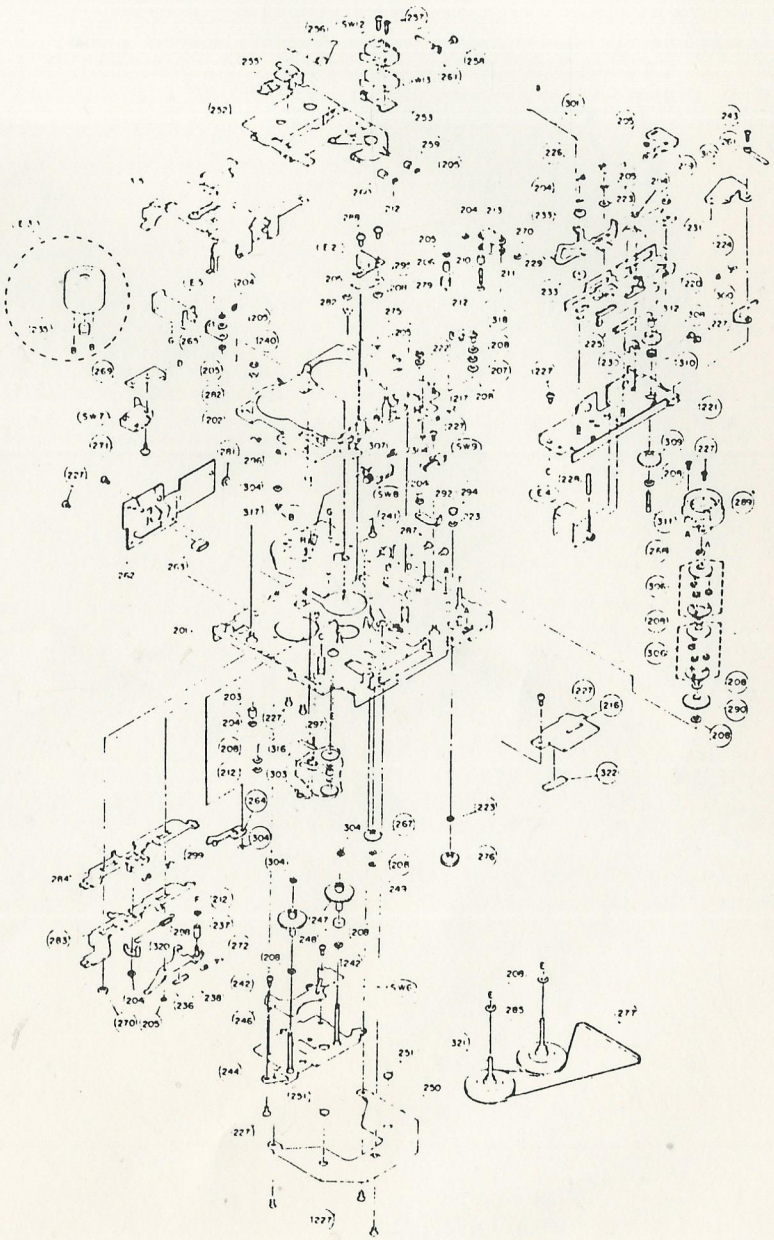
Semi-Conductor Lead Identifications



Packing Method



Exploded View (Tape Mechanism)



Parts List

Symbol No.	Part No.	Description
Radio & Dolby Panel Assembly Parts		
ICs		
IC1	51T44157U01	HA12411
IC51	51T44774P01	HA1199
IC101	51T40170U01	HA11227
IC151	51T40114T01	NE645B
IC152	51T40114T01	NE645B
R164	6T43160F21	Res., C.F. 200K ohm 1/8W
R165	6T43160F21	Res., C.F. 200K ohm 1/8W
R160	6T43159F65	Res., C.F. 1K ohm 1/8W
R161	6T43159F65	Res., C.F. 1K ohm 1/8W
or		
IC151	51T40113T01	LM1011N
IC152	51T40113T01	LN1011N
C175	23T43247F09	Cap., Elec. 10μF 16V
C176	23T43247F09	Cap., Elec. 10μF 16V
C177	8S44505P41	Cap., Cer. 220pF
C188	8S44505P41	Cap., Cer. 220pF
C194	21B41870J02	Cap., Cer. 0.1μF
C195	21B41870J02	Cap., Cer. 0.1μF
R162	6T43159F25	Res., C.F. 22 ohm 1/8W
R163	6T43159F25	Res., C.F. 22 ohm 1/8W
R168	6T43160F22	Res., C.F. 220K ohm 1/8W
R169	6T43160F22	Res., C.F. 220K ohm 1/8W
R176	6T43160F24	Res., C.F. 270K ohm 1/8W
R177	6T43160F24	Res., C.F. 270K ohm 1/8W
R178	6T43160F32	Res., C.F. 560K ohm 1/8W
R179	6T43160F32	Res., C.F. 560K ohm 1/8W
IC201	51S42211P01	M51521L
Transistors		
TR1	48T44160U02	2SC2206-B
TR2	48T40627U01	2SD636
TR3	48T40627U01	2SD636
TR4	48T40627U01	2SD636
TR5	48T40627U01	2SD636
TR6	48T40627U01	2SD636
TR7	48T41364U01	2SD655
TR151	48S44886G01	2SC1317-Q
TR152	48T40627U01	2SD636
TR153	48T40627U01	2SD636
TR201	48T42182U01	2SD661-U
TR202	48T42182U01	2SD661-U
TR251	48T40627U01	2SD636
TR252	48T40627U01	2SD636

Symbol No.	Part No.	Description
Diodes		
D1	48T43189F01	1S1555
D2	48T43189F01	1S1555
D151	48T43189F01	1S1555
D152	48T43189F01	1S1555
D153	48T43189F01	1S1555
D154	48T43189F01	1S1555
D155	48T43189F01	1S1555
D156	48T43189F01	1S1555
D157	48T43189F01	1S1555
D158	48T43189F01	1S1555
D501	48C40235G02	10E2
D502	48T43189F01	1S1555
D503	48T43189F01	1S1555
D504	48T43189F01	1S1555
Z1	48T40059U01	Zener, HZ9A-2L
Z2	48T40059U34	Zener, HZ11C-IL
Z151	48T40059U34	Zener, HZ11C-IL
Coils & Filters		
CF1	91T40309T02	Ceramic Filter (Red)
or	91T40309T03	Ceramic Filter (Blu)
or	91T40309T04	Ceramic Filter (Org)
CF2	91T40309T02	Ceramic Filter
or	91T40309T03	Ceramic Filter
or	91T40309T04	Ceramic Filter
IFT1	24T42657U01	Coil, IF
IFT51	24T44151U01	Coil, IF (Yel)
IFT52	24T44152U01	Coil, IF (Grn)
IFT53	24T44153U01	Coil, IF (Pnk)
IFT54	24T44151U01	Coil, IF (Yel)
L1	24T42658U01	Coil, 20 μH
L51	24T41686U21	Coil, Inductor 10 μH
L52	24T41686U17	Coil, Inductor 4.7 μH
L53	24T44154U01	Coil, AM OSC (Red)
L151	24T42241U01	Coil, Dolby 23 mH
L152	24T42241U01	Coil, Dolby 23 mH
L153	24T42242U01	Coil, Dolby 36 mH
L154	24T42242U01	Coil, Dolby 36 mH

Symbol No.	Part No.	Description
Switches & Thermistor		
SW1	40T43726F01	Switch, Push
SW2	40T43726F02	Switch, Push
SW3	40T43726F01	Switch, Push
SW4	40T43726F01	Switch, Push
SW5	40T43726F01	Switch, Push
TH1	48T40137T01	Thermistor, D33A
Resistors	(All resistors are carbon film, 1/8W, ±5%unless otherwise noted)	
R1	6T43159F33	47 ohm
R2	6T43159F53	330 ohm
R3	6T43160F34	680K ohm
R4	6T43159F53	330 ohm
R5	6T43159F89	10K ohm
R6	6T43159F89	10K ohm
R7	6T43159F89	10K ohm
R8	6T43159F89	10K ohm
R9	6T43159F89	10K ohm
R10	6T43159F73	2.2K ohm
R11	6T43159F41	100 ohm
R12	6T40150T29	33 ohm 1/4W
R13	6T43159F89	10K ohm
R15	6T43159F81	4.7K ohm
R16	6T43159F53	330 ohm
R17	6T43159F79	3.9K ohm
R18	6T43159F81	4.7K ohm
R19	6T43159F89	10K ohm
R20	6T43159F97	22K ohm
R21	6T43160F14	100K ohm
R22	6T43159F85	6.8K ohm
R23	6T43159F73	2.2K ohm
R24	6T43160F06	47K ohm
R25	6T43159F89	10K ohm
R26	6T43159F89	10K ohm
R27	6T43159F85	6.8K ohm
R28	6T43159F85	6.8K ohm
R29	6T43159F89	10K ohm
R30	6T43159F41	100 ohm
R31	6T43159F57	470 ohm
R51	6T43159F81	4.7K ohm
R52	6T43159F35	56 ohm
R53	6T43159F75	2.7K ohm
R54	6T43160F10	68K ohm
R55	6T43160F10	68K ohm

Symbol No.	Part No.	Description
R56	6T43160F02	33K ohm
R57	6T43159F43	120 ohm
R58	6T43159F95	18K ohm
R59	6T43160F16	120K ohm
R101	6T43159F49	220 ohm
R102	6T43159F97	22K ohm
R103	6T43159F65	1K ohm
R104	6T43160F14	100K ohm
R105	6T43159F77	3.3K ohm
R106	6T43159F77	3.3K ohm
R107	6T43159F37	68 ohm
R151	6T43159F89	10K ohm
R152	6T43159F89	10K ohm
R153	6T43160F16	120K ohm
R154	6T43160F16	120K ohm
R155	6T43160F16	120K ohm
R156	6T43160F16	120K ohm
R157	6T43160F06	47K ohm
R158	6T43160F06	47K ohm
R159	6T43159F57	470 ohm
R166	6T43160F06	22K ohm
R167	6T43160F06	22K ohm
R170	6T43159F77	3.3K ohm
R171	6T43159F77	3.3K ohm
R172	6T43159F47	180 ohm
R173	6T43159F47	180 ohm
R174	6T43160F24	270K ohm
R175	6T43160F24	270K ohm
R180	6T43160F16	120K ohm
R181	6T43160F16	120K ohm
R182	6T43159F93	15K ohm
R183	6T43159F93	15K ohm
R184	6T43159F93	15K ohm
R185	6T43159F97	22K ohm
R186	6T43160F10	68K ohm
R201	6T43159F45	150 ohm
R202	6T43159F45	150 ohm
R203	6T43160F08	56K ohm
R204	6T43160F08	56K ohm
R205	6T43160F26	330K ohm
R206	6T43160F26	330K ohm
R207	6T43159F85	6.8K ohm
R208	6T43159F85	6.8K ohm
R209	6T43159F81	4.7K ohm
R210	6T43159F81	4.7K ohm

Symbol No.	Part No.	Description
R211	6T43160F14	100K ohm
R212	6T43160F14	100K ohm
R213	6T43159F83	5.6K ohm
R214	6T43159F73	2.2K ohm
R215	6T43159F73	2.2K ohm
R218	6T43159F93	15K ohm
R219	6T43159F65	1K ohm
R259	6T43159F73	2.2K ohm
R260	6T43159F73	2.2K ohm
R261	6T43159F93	15K ohm
R262	6T43159F89	10K ohm
R263	6T43159F83	5.6K ohm
R501	6T40150T61	680 ohm ¼W
R502	6T40150T29	33 ohm ¼W
R503	6T40150T61	680 ohm ¼W
R504	6T43159F93	15K ohm
VR1	18C42061J15	Variable 50K ohm
VR2	18C42061J15	Variable 50K ohm
VR101	18C42061J14	Variable 10K ohm
VR151	18C42061J14	Variable 10K ohm
VR152	18C42061J14	Variable 10K ohm
VR153	18C42061J14	Variable 10K ohm
VR154	18C42061J14	Variable 10K ohm
Capacitors (u = μ)		
C2	8T44979P08	Ceramic 10000 pF
C3	23T43247F10	Electrolytic 22 uF 16V
C4	8T44979P10	Ceramic 22000 pF
C5	23T43247F08	Electrolytic 4.7 uF 25V
C6	23S41059P07	Tantalum 1 uF 35V
C7	8T44979P10	Ceramic 22000 pF
C8	23T43247F13	Electrolytic 47 uF 10V
C9	8T44979P10	Ceramic 22000 pF
C10	8T44979P10	Ceramic 22000 pF
C11	8T44979P10	Ceramic 22000 pF
C12	8T44979P10	Ceramic 22000 pF
C13	8T44979P10	Ceramic 22000 pF
C14	23T43247F05	Electrolytic 1 uF 50V
C15	23T43247F05	Electrolytic 1 uF 50V
C16	23T43247F03	Electrolytic 0.33 uF 50V
C17	23T43247F05	Electrolytic 1 uF 50V
C18	21C45322G23	Ceramic 120 pF
C19	8T44979P10	Ceramic 22000 pF
C20	23T43247F09	Electrolytic 10 uF 16V
C21	8T44979P10	Ceramic 22000 pF
C22	21C45322G28	Ceramic 1000 pF 50V
C23	23T43247F14	Electrolytic 47 uF 16V
C52	8T44979P08	Ceramic 10000 pF

Symbol No.	Part No.	Description
C53	8T44979P04	Ceramic 2200 pF
C54	8T44979P10	Ceramic 22000 pF
C55	23T43247F08	Electrolytic 4.7 uF 25V
C56	8T44979P05	Ceramic 3300 pF
C57	8T44979P04	Ceramic 2200 pF
C58	21C45322G02	Ceramic 2 pF 50V
C59	23T43247F09	Electrolytic 10 uF 16V
C60	8T44979P11	Ceramic 33000 pF
C61	8T44979P11	Ceramic 33000 pF
C62	23T43247F08	Electrolytic 4.7 uF 25V
C63	23T43247F09	Electrolytic 10 uF 16V
C64	23B44780P03	Electrolytic 220 uF 16V
C65	8T44979P08	Ceramic 10000 pF
C66	21C45322G03	Ceramic 3 pF 50V
C67	8T42629F05	Mylar 0.001 uF
C68	21C41701J35	Ceramic 270 pF
C69	21C45322G39	Ceramic 680 pF 50V
C70	21C41701J34	Ceramic 120 pF
C71	8T44979P10	Ceramic 22000 pF
C72	23S41059P26	Tantalum 10 uF 16V
C101	8C42195G07	Polystyrol 470 pF
C102	23T43247F05	Electrolytic 1 uF 50V
C103	23T43247F03	Electrolytic 0.33 uF 50V
C104	23T43247F08	Electrolytic 4.7 uF 25V
C105	23T43707U02	Electrolytic 100 uF 10V
C106	21B41870J01	Ceramic 0.05 uF
C107	23T43247F08	Electrolytic 4.7 uF 25V
C108	8T42629F19	Mylar 0.015 uF
C109	8T42629F19	Mylar 0.015 uF
C110	23T43247F01	Electrolytic 0.1 uF 50V
C151	23T43247F09	Electrolytic 10 uF 16V
C152	23T43247F09	Electrolytic 10 uF 16V
C153	23T43247F05	Electrolytic 1 uF 50V
C154	23T43247F05	Electrolytic 1 uF 50V
C155	23T43247F05	Electrolytic 1 uF 50V
C156	23T43247F05	Electrolytic 1 uF 50V
C157	8T44979P10	Ceramic 22000 pF
C158	23B44780P03	Electrolytic 220 uF 16V
C159	23B44780P03	Electrolytic 220 uF 16V
C160	8T44979P12	Ceramic 47000 pF
C161	23S41059P05	Tantalum 0.47 uF 35V
C162	23S41059P05	Tantalum 0.47 uF 35V
C163	8T42629F63	Mylar 0.0047 uF
C164	8T42629F63	Mylar 0.0047 uF
C165	23T43247F09	Electrolytic 10 uF 16V

Symbol No.	Part No.	Description
C166	23T43247F09	Electrolytic 10 uF 16V
C167	8T42629F59	Mylar 0.0022 uF
C168	8T42629F59	Mylar 0.0022 uF
C169	8T42629F64	Mylar 0.0056 uF
C170	8T42629F64	Mylar 0.0056 uF
C171	8T42629F72	Mylar 0.027 uF
C172	8T42629F72	Mylar 0.027 uF
C173	8T42629F61	Mylar 0.0033 uF
C174	8T42629F61	Mylar 0.0033 uF
C179	8T42629F62	Mylar 0.0039 uF
C180	8T42629F62	Mylar 0.0039 uF
C181	23T43247F05	Electrolytic 1 uF 50V
C182	23T43247F05	Electrolytic 1 uF 50V
C183	23T43247F03	Electrolytic 0.33 uF 50V
C184	23T43247F03	Electrolytic 0.33 uF 50V
C185	23T43247F01	Electrolytic 0.1 uF 50V
C186	23T43247F01	Electrolytic 0.1 uF 50V
C187	23T43247F09	Electrolytic 10 uF 16V
C188	23T43247F09	Electrolytic 10 uF 16V
C189	8T42629F75	Mylar 0.047 uF
C190	8T42629F75	Mylar 0.047 uF
C191	8T42629F72	Mylar 0.027 uF
C192	8T42629F72	Mylar 0.027 uF
C193	23T43247F08	Electrolytic 4.7 uF 25V
C201	8S44505P45	Ceramic 470 pF
C202	8S44505P45	Ceramic 470 pF
C203	23S41059P07	Tantalum 1 uF 35V
C204	23S41059P07	Tantalum 1 uF 35V
C205	23S41198U26	Electrolytic 47 uF 10V
C206	23T43247F13	Electrolytic 47 uF 10V
C207	8T42629F17	Mylar 0.01 uF
C208	8T42629F17	Mylar 0.01 uF
C209	23T43247F08	Electrolytic 4.7 uF 25V
C210	23T43247F08	Electrolytic 4.7 uF 25V
C211	23T43247F08	Electrolytic 4.7 uF 25V
C212	23T43247F08	Electrolytic 4.7 uF 25V
C213	23S41198U33	Electrolytic 100 uF 10V
C214	23S41198U33	Electrolytic 100 uF 10V
C215	23T43247F13	Electrolytic 47 uF 10V
C259	23S41059P01	Tantalum 0.1 uF 35V
C260	23S41059P01	Tantalum 0.1 uF 35V
C261	23T43247F09	Electrolytic 10 uF 16V
CT52	20T44156U01	Trimmer 40 pF
CT53	20T44156U01	Trimmer 40 pF

Symbol No.	Part No.	Description
Volume Control Panel Assembly Parts		
Volume		
VR251	18T43458F01	Volume, Control
SW14		
Capacitors (u = μ)		
C251	8T42629F14	Mylar 0.0056 uF
C252	8T42629F14	Mylar 0.0056 uF
C253	8T42629F25	Mylar 0.047 uF
C254	8T42629F25	Mylar 0.047 uF
C255	8T42629F25	Mylar 0.047 uF
C256	8T42629F25	Mylar 0.047 uF
C257	23S41059P04	Tantalum 0.33 uF 35V
C258	23S41059P04	Tantalum 0.33 uF 35V
C262	23T43247F08	Electrolytic 4.7 uF 25V
C263	23T43247F08	Electrolytic 4.7 uF 25V
Resistors (All resistors are carbon film, 1/8W, ±5% unless otherwise noted)		
R251	6S41042U85	6.8K ohm
R252	6S41042U85	6.8K ohm
R253	6S41042U65	1K ohm
R254	6S41042U65	1K ohm
R255	6S41042U63	820 ohm
R256	6S41042U63	820 ohm
R257	6S41042U81	4.7K ohm
R258	6S41042U81	4.7K ohm
Deck Panel Assembly Parts		
IC		
IC401	51T43456F01	M51144L
Transistors		
TR401	48T40627U01	2SD636
TR402	48T40627U01	2SD636

Symbol No.	Part No.	Description
TR403	48S43239G02	2SC509
TR404	48T40627U01	2SD636
TR405	48T40627U01	2SD636
TR406	48T40627U01	2SD636
TR407	48T40627U01	2SD636
TR408	48T40627U01	2SD636
TR409	48S41784J03	2SC1368C
or	48S41784J04	2SC1368D
Diodes		
D401	48C40235G02	10E2
D402	48S134816	1S1555
D403	48S134816	1S1555
D404	48S134816	1S1555
D405	48C40235G02	10E2
Capacitors (u = μ)		
C401	23D44333G02	Electrolytic 3.3 uF 25V
C402	23S41198U55	Electrolytic 470 uF 10V
C403	23T43247F01	Electrolytic 0.1 uF 50V
C404	23T43247F01	Electrolytic 0.1 uF 50V
C405	23T43247F01	Electrolytic 0.1 uF 50V
C406	23T43247F09	Electrolytic 10 uF 16V
C407	23T43247F09	Electrolytic 10 uF 16V
C408	23T43247F09	Electrolytic 10 uF 16V
C409	23T43247F09	Electrolytic 10 uF 16V
C410	23B44780P02	Electrolytic 100 uF 16V
C411	23S41059P18	Tantalum 4.7 uF 16V
C412	23S41059P18	Tantalum 4.7 uF 16V
C413	23S41059P26	Tantalum 10 uF 16V
Resistors (All resistors are carbon film, 1/8W, ±5% unless otherwise noted)		
R401	6S41042U97	22K ohm
R402	6S41042U73	2.2K ohm
R403	6S41043U16	120K ohm
R404	6S41042U81	4.7K ohm
R405	6S41042U89	10K ohm
R406	6S41040U73	2.2K ohm
R407	6S41041U22	220K ohm
R408	6S41040U75	2.7K ohm
R409	6S41040U81	4.7K ohm
R410	6S41040U89	10K ohm
R411	6S41040U77	3.3K ohm
R412	6S41041U22	220K ohm
R413	6S41040U51	270 ohm

Symbol No.	Part No.	Description
R414	6S41801P22	150 ohm ¼W
R415	6S40150T61	680 ohm ¼W
R416	6S41040U73	2.2K ohm
R417	6S41040U65	1K ohm
R418	6S41041U08	56K ohm
R419	6S41041U08	56K ohm
R420	6S41040U65	1K ohm
R421	6S40150T61	680 ohm ¼W
R423	6S41042U89	10K ohm
R424	6S41043U12	82K ohm
Pre-Out Panel Assembly Parts		
ICs, Transistor and Diode		
IC301	51T43457F01	LA4175
IC302	51T42616F01	TA7324P
TR301	48S43239G02	2SC509
D301	48S134816	1S1555
Capacitors (u = μ)		
C301	23S41059P04	Tantalum 0.33 uF 35V
C302	23S41059P04	Tantalum 0.33 uF 35V
C303	23S41059P18	Tantalum 4.7 uF 16V
C304	23S41059P07	Tantalum 1 uF 35V
C305	23S41059P07	Tantalum 1 uF 35V
C306	23T43247F13	Electrolytic 47 uF 10V
C307	21C45322G23	Ceramic 120 pF
C308	21C45322G23	Ceramic 120 pF
C309	23T43247F17	Electrolytic 47 uF 6.3V
C310	23T43247F17	Electrolytic 47 uF 6.3V
C311	23S41198U33	Electrolytic 100 uF 10V
C312	23S41198U33	Electrolytic 100 uF 10V
C313	8T42629F17	Mylar 0.01 uF
C314	8T42629F17	Mylar 0.01 uF
C315	23B44780P02	Electrolytic 100 uF 16V
C316	23T43682F01	Electrolytic 1700 uF 16V
Resistors (All resistors are carbon film, 1/8W, ±5% unless otherwise noted)		
R301	6S41041U22	220K ohm
R302	6S41040U69	1.5K ohm
R303	6S41040U95	18K ohm
R304	6S41040U73	2.2K ohm
R305	6S41040U65	1K ohm
R306	6S41040U65	1K ohm
R307	6S41040U55	390 ohm

Symbol No.	Part No.	Description
R308	6S41040U55	390 ohm
R309	6S41040U97	22K ohm
R310	6S41040U97	22K ohm
R311	6S41801P08	10 ohm ¼W
R312	6S41801P08	10 ohm ¼W
R313	6S41801P15	39 ohm ¼W
R314	6S41801P15	39 ohm ¼W
R315	6S41040U57	470 ohm
R317	6S41040U89	10K ohm
R318	6S41040U89	10K ohm

Miscellaneous Parts

C501	8T43450F01	Capacitor, Feed Through
C502	8T43450F01	Capacitor, Feed Through
CT51	20T42175F02	Trimmer, Antenna
E2	88T40163F01	Head, Playback
E3	1V41500F34	Assembly Motor
E4	1T43641F01	Assembly, Keep Solenoid
E5	1T43640F01	Assembly, Solenoid
E6	25T43198U02	Choke
E7	65A40348G04	Fuse, 3A
J1	9T43184F01	Receptacle, Antenna
J2	1T43684F01	Assembly, DIN Connector
J3	30T43045F02	Connector, DIN
J4	1B42187J13	Assembly, Lug Push-On
J5	1T43751U02	Assembly, Fuse Holder
J6	30T40438U01	Wire, Ground
LAMP 1	65B43447J01	Lamp
LAMP 2	65B43447J01	Lamp
LED 1	48T41469U01	LED (Grn)
LED 2	48T41469U01	LED (Grn)
LED 3	48T41469U01	LED (Grn)
LED 4	48T41469U01	LED (Grn)
SW6	40T40641U02	Switch, Reed
SW7	40T41655F01	Switch, Slide
SW8	40T43144U03	Switch, Push
SW9	40T43662U01	Switch, Leaf
SW10	40T43478U03	Switch, Push
SW11	40T43478U02	Switch, Push
SW12	40T42603F01	Switch, Micro
SW13	40T42603F01	Switch, Micro
VR252	18T43459F01	Balance Control

General Assembly Parts

1	27C43415F01	Chassis, Front
2	1V43600F57	Assembly, Volume Panel
3	45A43428F01	Arm, Orudam
4	2S40000G06	Nut, Hexagon
5	7A43429F01	Bracket, Volume A
6	41A44566F01	Spring, Wire
7	27C43416F01	Chassis, Side (L)
8	27C43416F02	Chassis, Side (R)
9	27B43417F01	Chassis, Rear
10	3S44205G30	Screw, Tap Tite (M2.6 x 4)
11	1V43600F58	Assembly, Back Scale
12	84A44834F01	Panel, Static
13	49A43494J02	Pulley
14	84B43444F01	Panel, Lamp
15	7A43421F01	Plate, Back
16	14A44165F01	Insulator
17	3S43997P23	Screw, Machine (M2 x 3)
18	77T42672F02	Tuner, Manual
19	45A41743U01	Arm, Orudam (B)
20	1V43300F51	Assembly, Pulley Bracket
21	4C42091G06	Washer, "C"
22	7A42644F01	Bracket, Tuner
23	3S40011G83	Screw, Machine (M3 x 3)
24	30S43803G04	Cord, Dial (600)
25	29A737272	Lug, Wrap Around
26	41A42649F02	Spring, Tuner
27	1V43600F59	Assembly, Radio & Dolby
28	1V43600F61	Assembly, Deck Panel
29	7B43449F01	Bracket, Switch
30	81D43804F01	Cassette Deck (GX75B510)
31	7A43427F01	Bracket, Deck (R)
32	3S40019G71	Screw, F-Lock (M2.6 x 3)
33	84C43453F04	Panel, Switch
34	7A44473F01	Bracket, Deck Cover
35	30C44673J76	Shield, Wire
36	1V43600G64	Assembly, Nose Piece
37	15B42654F06	Cover, Dust
38	47A42655F01	Shaft, Door
39	41A43598P04	Spring, Dust Cover
40	26A44358F01	Reflector

Symbol No.	Part No.	Description
41	7A43412F01	Bracket, Knob
42	36A42658F01	Knob, Push
43	41A43414F01	Spring, Knob
44	7A43413F01	Bracket, Stopper
45	84A43777F01	Panel, LED
46	45A41744U01	Arm, Orudam (B)
47	52A43423F01	Pointer
48	36B43430F02	Knob, R
49	36A43451F01	Knob, Push
50	15C43418F01	Cover, Top
51	15C43419F01	Cover, Bottom
52	14B43436F01	Insulator
53	7B42992F01	Bracket, Clamp Cord
54	42B41424G02	Cord, Clamp
55	3S40018G02	Screw, Tapping (M3 x 8)
56	3C40014G18	Screw, Machine (M2.6 x 6)
57	43A44464P06	Bushing, Pilot Lamp
58	30C43811P17	Shield, Wire
59	13D43409F02	Nose Piece
61	37S44468G19	Tube UL (50)
62	1V43600F63	Assembly, Pre-Out
63	14B43773F01	Insulator
64	7A43461F01	Bracket, Panel (A)
65	7A43462F01	Bracket, Panel (B)
66	7A43770F01	Bracket, Panel (C)
67	15B43755F01	Cover, Motor
68	26A44358F02	Reflector
69	3S44205G07	Screw, Tap Tite (M2.6 x 5)
70	43A40784T03	Spacer, Holder

Tape Mechanism Assembly Parts

Symbol No.	Part No.	Description
201	1C41839F01	Assembly, Rivet Chassis
202	1C41841F01	Assembly, Rivet Head Base
203	43A41812F02	Sleeve
204	4C42091G05	Washer, "C"
205	4C42091G06	Washer, "C"
206	43A41079F01	Spacer
207	44A41348F01	Gear, Eject Idler
208	4S40075G06	Washer, S.T.W.
210	47A41003F01	Shaft, Pinch Roller Bracket
211	49A41004F01	Roller, Guide Shaft
212	4C42091G12	Washer, "C"
213	1T42577F01	Assembly, Pinch Roller
216	84A43335F01	Panel, Switch
217	41B41559F14	Spring
219	45A41042F01	Lever, Eject Lock
220	1B41816F01	Assembly, Eject Lever
221	1B41653F01	Assembly, Rivet Frame Lever
222	49A43395F01	Roller, Head Base
223	4A41071F03	Washer
224	41B41559F03	Spring
225	41B41559F13	Spring
226	41B41559F02	Spring
227	3C40014G12	Screw, Machine (M2.6 x 4)
228	22B40232G06	Pin, Spring
229	45B41068F01	Lever, Sub
230	43A41072F04	Spacer
231	64A41091F01	Plate, Head Lock
233	43A42872F01	Spacer
235	49A41008F02	Pulley, Motor
236	1A41843F01	Assembly, Rivet Lock Lever
237	49A40984F01	Roller, Lock
238	75A44632G06	Pad, Cushion
240	4S40075G05	Washer, S.T.W. (ϕ2.1 x 4 x 0.13)
241	3C40014G07	Screw, Machine (M2 x 0.4)
242	3S40019G71	Screw, F-Lock (M2.6 x 3)
243	3S44205G33	Screw, Tap Tite
244	1A41656F01	Assembly, Reel Shaft Bracket
246	84A41741F01	Panel, Reed Switch
247	1T41831F01	Assembly, Reel
248	59B41224P02	Ring, Magnet
249	4A41345P01	Washer, Lock
250	7A41087F01	Bracket Flywheel
251	43A41006F01	Spacer, Polyester Slider
252	1A41657F01	Assembly, Rivet Plate Base
253	7A41021F01	Bracket, Switch
255	45B41346F01	Guide, Cassette
256	41A41590F01	Spring, Turn
257	3S40011G78	Screw, Machine (M2.3 x 15)
258	3S44205G07	Screw, Tap Tite (M2.6 x 5)
259	43A41072F02	Spacer
260	43A41072F03	Spacer
261	29A737272	Lug, Wrap Around
262	1A41659F01	Assembly, Rivet Guide Bracket
263	75A41807F01	Cushion, Rubber
264	45A41387F01	Lever, Mute Switch
265	45A41388F01	Lever, Solenoid
267	44A41406F01	Gear, Take-Up
268	4S40075G06	P.S. Washer, S.T.W. (ϕ2 x 0.5)
269	7A43838F01	Bracket, Rewind Switch
270	4C42091G04	Washer, ' C"

Symbol No.	Part No.	Description
271	3S43997P62	Screw, Machine (M2.6 x 3)
272	41B41559F08	Spring
275	41B41559F04	Spring
276	44A41351F01	Gear, Wheel Pulley
277	42A40969F01	Belt
279	41A41453F01	Spring, Pinch Roller
281	4S40075G03	Washer, S.T.W.
282	49A41005F01	Roller, Head Base
283	45C41235F04	Lever, Fast Forward
284	45C44753F03	Lever, Rewind
285	1T42014F01	Assembly, Flywheel
287	3S40011G81	Screw, Machine (M2 x 4)
288	3S40019G03	Screw, F-Lock (M2 x 4)
289	44B41260F01	Gear, Fixed
290	44A41354F01	Gear, Guide
292	45A41404F02	Lever, Switch
294	44A41349F01	Gear, Pulley
295	41A41642P01	Spring, Head Adjustment
296	41B41559F05	Spring
297	41A41393F01	Spring, R/F Idler Arm
298	41B41559F09	Spring
299	41B41559F10	Spring
300	41A41390F01	Spring, Solenoid
301	45A41392F01	Link, Connection
302	45A43287F01	Plate, Pinion
303	41A42613F01	Spring, R/F Idler
304	4A41345P02	Washer, Lock (ϕ1.7 x 0.25)
306	1V41500F30	Assembly, Planet Gear
307	3C40014G15	Screw, Machine (M2.6)
308	45A41262F01	Cam
309	44A41261F01	Gear, Eject
310	44A41355F01	Gear, Pinion
311	47A41370F01	Shaft, Eject Cam
312	43A43288F01	Sleeve, Pinion
315	1A41658F01	Assembly, Cassette Holder
316	1C41353F01	Gear, R/F Idler
317	41A43244F01	Spring, B.T.
318	1A43561F01	Assembly, Eject Lever
		Idler Rivet
320	1A41660F01	Assembly, R/F Link
321	1T42014F02	Assembly, Flywheel
322	75A44632G06	Pad, Cushion

Symbol No.	Part No.	Description
	Packing Assembly Parts	
101	1V43900F59	Assembly, Knob Control
101-1	36C42201U04	Knob, Control
101-2	36D44510U02	Knob, Control
101-3	56B40230G27	Sack, Polyethylene
102	1V43600F67	Assembly, Pamphlet
102-1	68P42990F23	Owner's Manual
102-2	56B40230G12	Sack, Polyethylene
102-3	54A44217U01	Card, Consumer
102-4	68P44370P26	Card, Warranty
102-5	54A40001F01	Card, Service Station List
103	1V43600F68	Assembly, Kit Installation
103-1	2S40000G32	Nuts, Hexagon
103-2	3S40012G39	Screw, Tapping (M5 x 20)
103-3	3S40012G45	Screw, Tapping (M5 x 10)
103-4	4S40072G12	Washer, Tooth Lock
103-5	2S40000G13	Nut, Hexagon
103-6	4A43020G11	Washer
103-7	4A43612F01	Washer
103-8	45A41684U01	Arm, Adaptor
103-9	65A40348G04	Fuse, 3A
103-10	46A42363F01	Bolt, Stud
103-11	56B40230G27	Sack, Polyethylene
103-12	3A43315G02	Screw, Machine
104	4C42206U01	Washer, Volume
105	33B43805F02	Assembly, Face Plate
105-1	33C43435F02	Plate, Face
105-2	33B43611F02	Plate, Accessory
105-3	56B40230G04	Sack, Polyethylene
105-4	33B43611F04	Plate, Accessory
106	42B40994G05	Strap, Receiver Mounting
107	56B40230G22	Sack, Polyethylene
108	56D43438F01	Tray, Packing (L)
109	56D43438F02	Tray, Packing (R)
110	56C40409F05	Carton, Packing
111	56C40410F05	Carton, Packing
112	56D41118J14	Pad, Packing