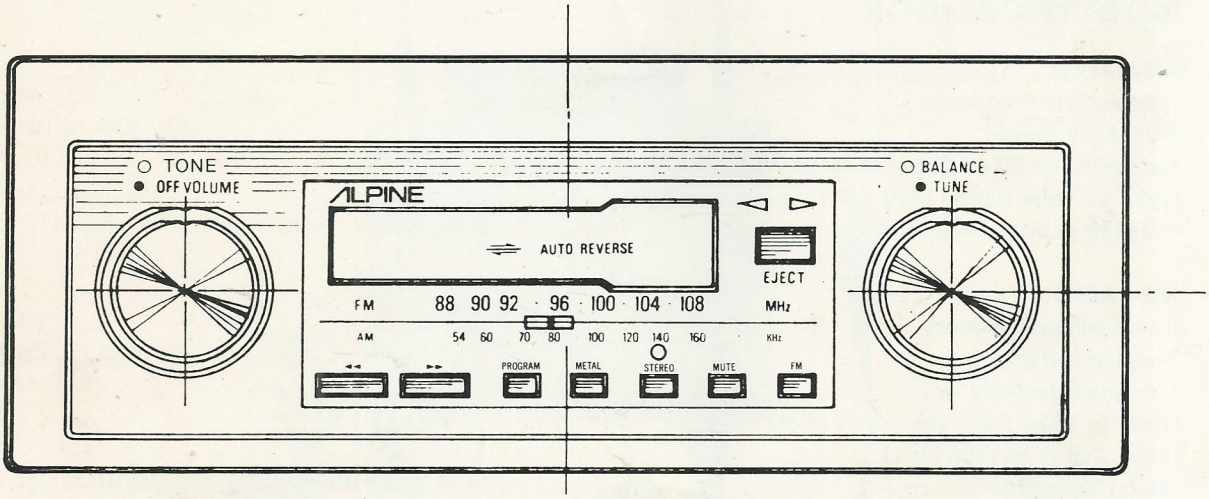
ALPINE SERVICE MANUAL

FM/AM
CASSETTE AUTO REVERSE



7124

Contents

Specifications 2
Parts Loaction and Disassembly Instructions. . . . . 3 to 5
Adjustment Procedures. . . . . 5 to 7
Adjustment Location 7
Block Diagram 8
Dial Cord Stringing 8
Parts Layout on P.C.Boards. . . . . 9 to 10
Wiring Diagram . . . . . 11 to 12
Schematic Diagram . . . . . 13 to 14
Exploded View (General) . . . . . 15 to 16
Exploded View (Tape Mechanism) 17
Semi-Conductor Lead Identifications 18
Packing Method View. 18
Parts List . . . . . 19 to 24

Specifications

AM RADIO

Intermediate Frequency . . . . . 455 KHz
Frequency Range . . . . . 530 KHz to 1610 KHz
Sensitivity (at 20 dB Signal to Noise Ratio) . . . . . 20 dB
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, 98 MHz) . . . . . 55 dB
Image Rejection (106 MHz). . . . . 40 dB
Stereo Separation . . . . . 400 Hz/25 dB, 1,000 Hz/25 dB, 10,000 Hz/20 dB

TAPE PLAYER

Tape Speed (MTT-111). . . . . 4.76cm/sec.
Signal to Noise Ratio (MTT-112) . . . . . 40 dB
Frequency Response (MTT-216) . . . . . 80 Hz to 8,000 Hz
Fast Forward & Rewind Time . . . . . 100 sec. (C-60)
Wow &Flutter (JIS WRMS). 0.2%
Crosstalk (MTT-121) . . . . . 40 dB

GENERAL

Load Impedance . . . . . 4 ohm
Power Supply . . . . . 14.0VD. C
Output Power (10% T.H.D.) 3.5W/CH
Semiconductors . . . . . 5 ICs, 13 Transistors, 9 Diodes, 2 Zener Diodes.
Dimensions . . . . . 160 (W) x 50 (H) x 115 (D) mm.
Weight. . . . . 1.4 kg.

Parts Locations and Disassembly Instruction

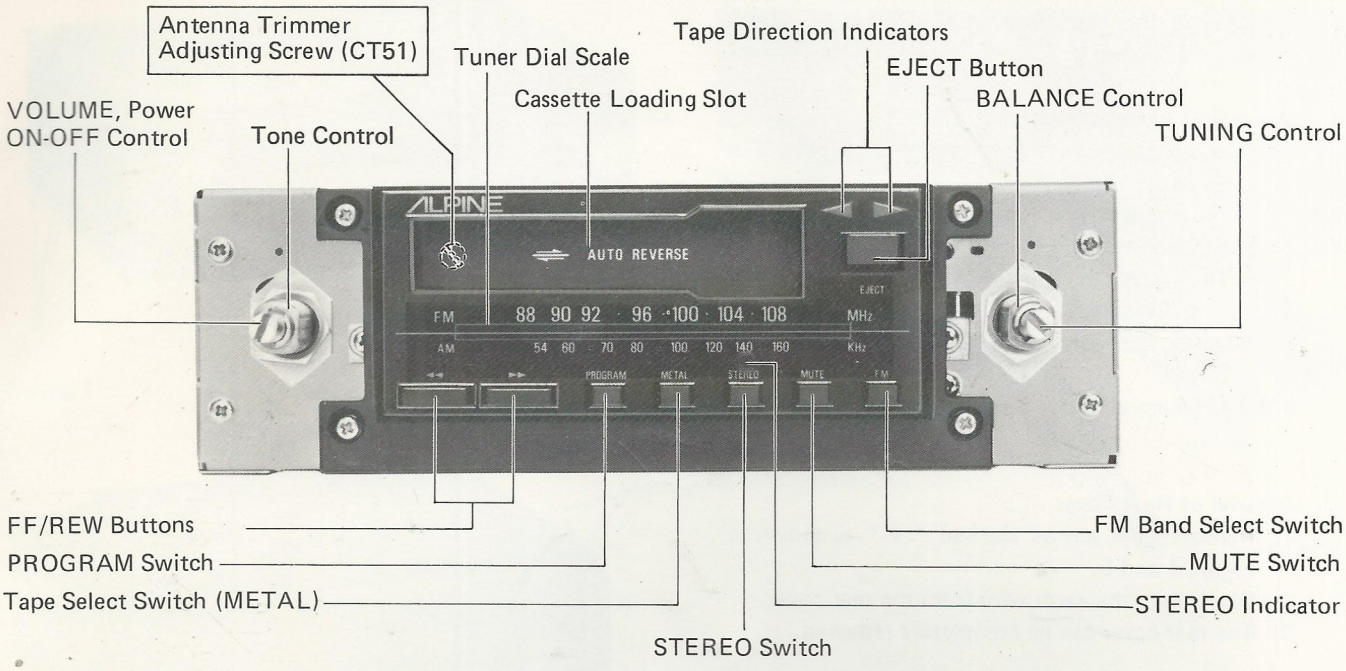


Figure 1

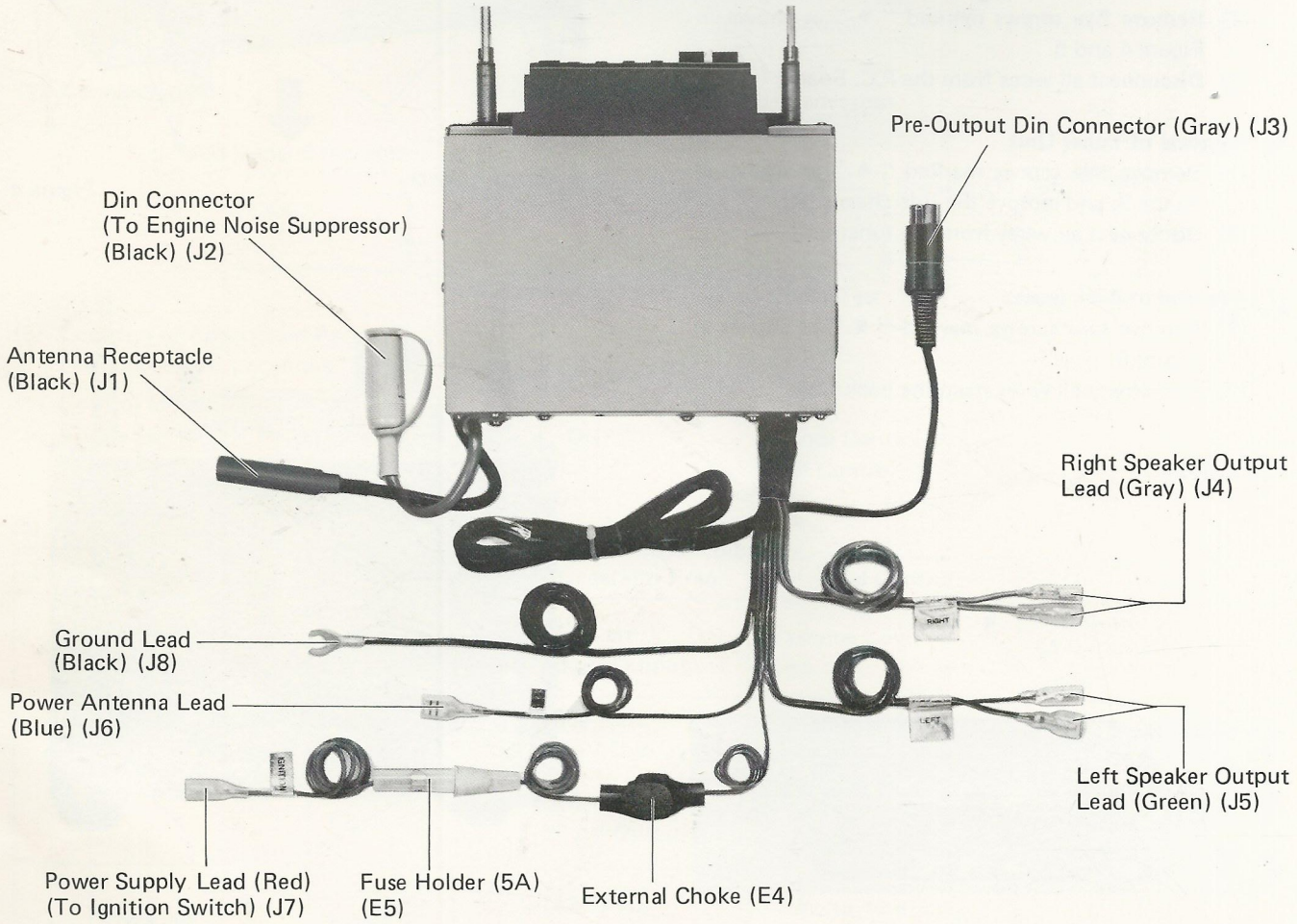


Figure 2

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 3.

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) Disconnect all wires carefully to remove the nose pieces.

4. **Removal of Rear Cover**
   (1) Remove nine screws marked " ※ " as shown in Figure 4 and 5.
   (2) Disconnect the earth wire from the rear cover.
   (3) The rear cover can be completely removed.

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

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

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

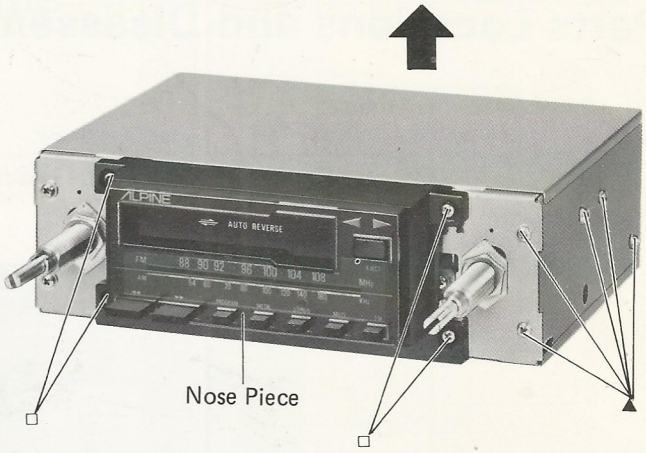


Figure 3

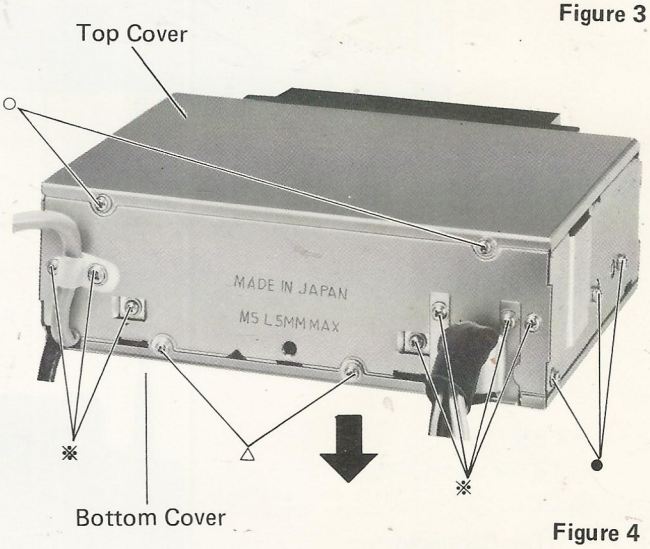


Figure 4

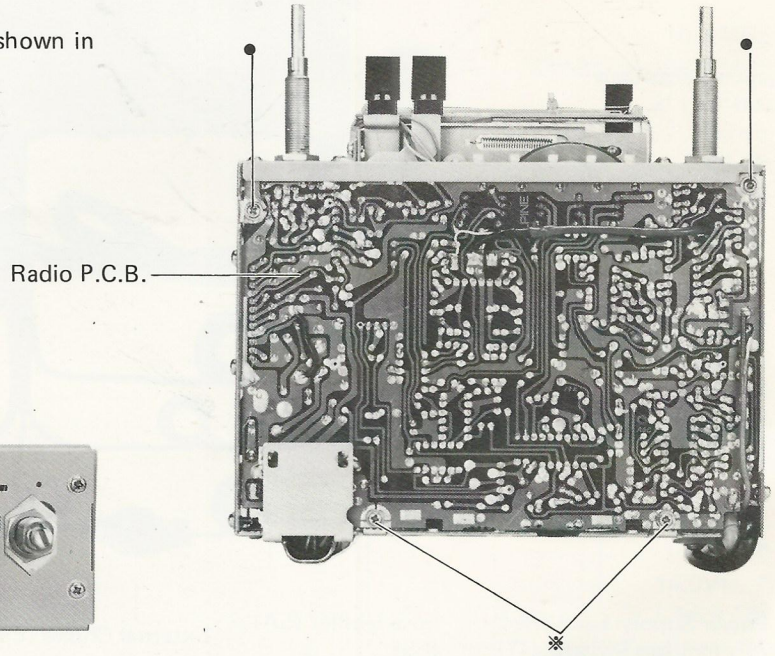


Figure 5

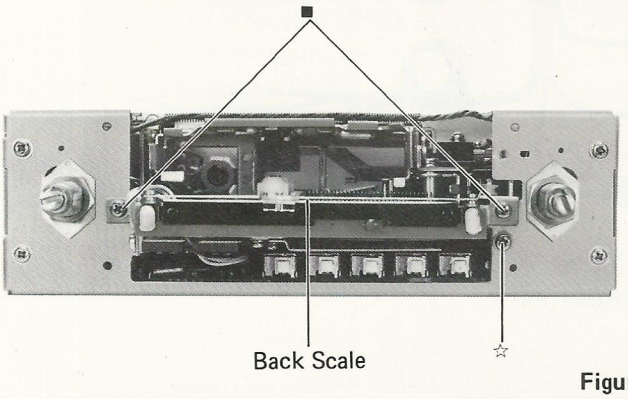


Figure 6

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

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

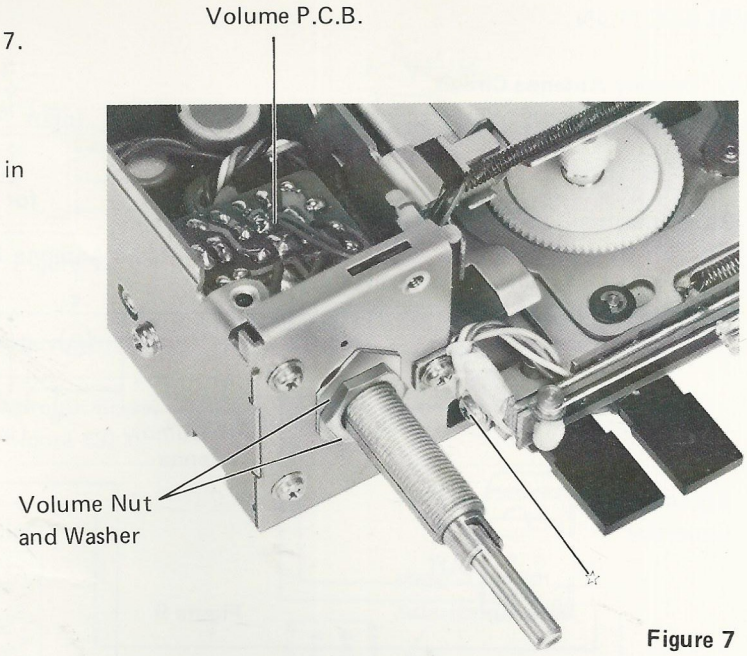
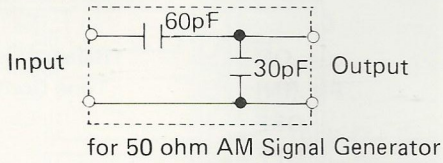


Figure 7

Adjustment Procedures

AM SECTION

(1) Dummy Antenna Circuit



(2) Connection

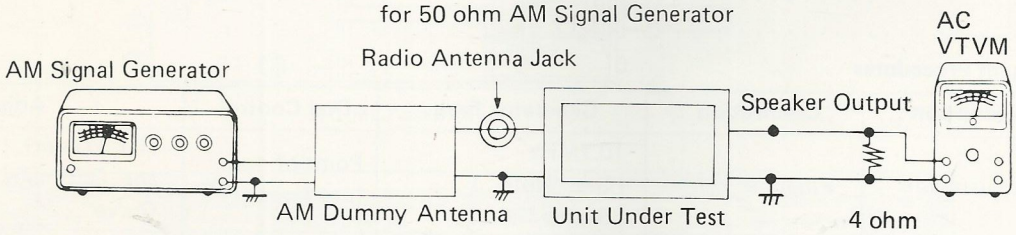


Figure 8

(3) Location of Adjustment Parts
See Adjustment Locations

(4) Control Setting

Power SW . . . . . ON
FM/AM . . . . . AM (OUT)
Others . . . . . OFF

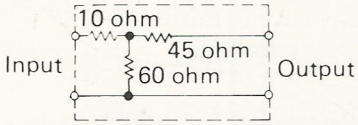
Balance Control . . . . . .Mech. Center
Tone Control . . . . . .Mech. Center

(5) Adjustment Procedures

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

FM SECTION

(1) Dummy Antenna Circuit



for 50 Ohm FM Signal Generator

(2) Connection

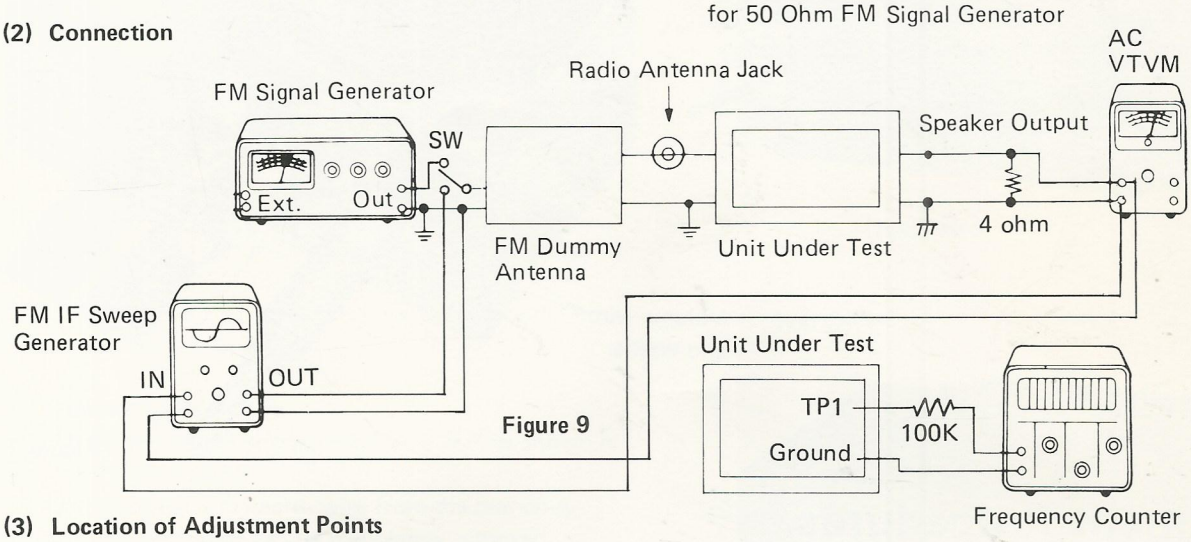


Figure 9

Figure 10

(3) Location of Adjustment Points

See Adjustment Locations

(4) Control Setting

Power SW . . . . . ON
FM/AM . . . . . FM (IN)
Mute . . . . . OFF
Others . . . . . OFF

Balance Control . . . . . Mech. Center
Tone Control . . . . . Mech. Center

(5) Adjustment Procedures

Step	Description	Connection	Generator Freq.	Dial Control	Adjust
1	IF Adjustment	Figure 9	10.7MHz (See "Note") (Sweep Gen.)	Point of non-interference	IFT (Tuner), IFT 1 for Optimum "S" Curve
2	Free-Running Freq. Adjustment	Figure 10	No Signal	Mute: ON	VR101 for 19 KHz
3	Band Ends	Figure 9	109.5 MHz	Extreme High End	CT Tuner 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 (Mod. 100% 1 KHz Signal)	Tune to 98 MHz Signal	VR2 for 1V.

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

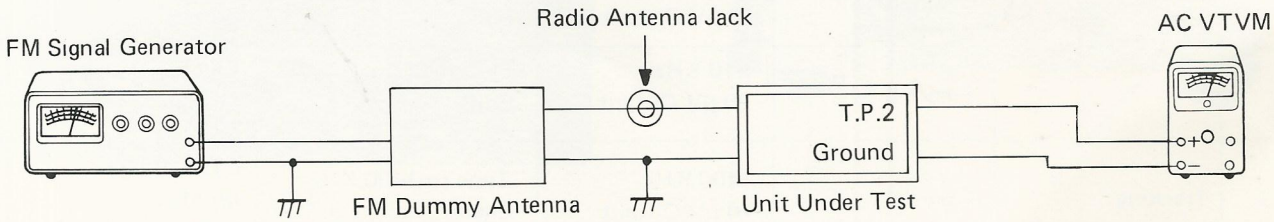


Figure 11

3. TAPE PLAYER SECTION

(1) Connection

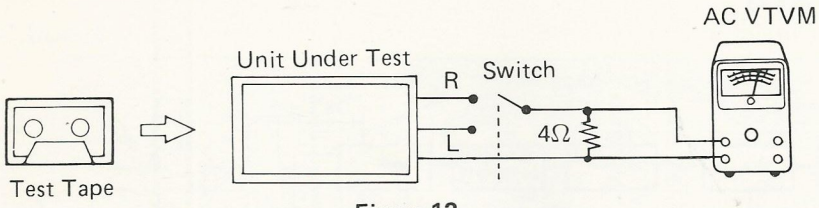


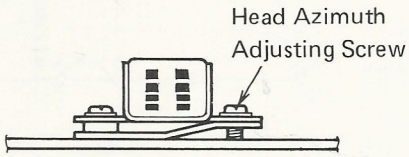
Figure 12

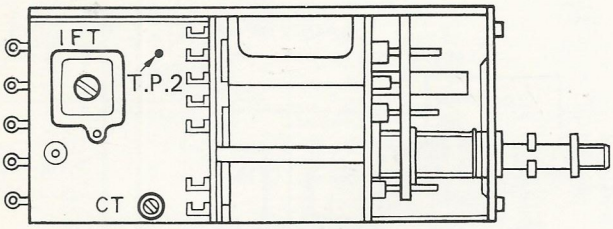
(2) Adjustment Procedures

Description	Test Tape	Adjustment Point	Test Point	Remarks
Head Azimuth Adjustment	MTT-114 (10 KHz)	Azimuth Screw (Figure 13)	Audio Output	VTVM: Max.

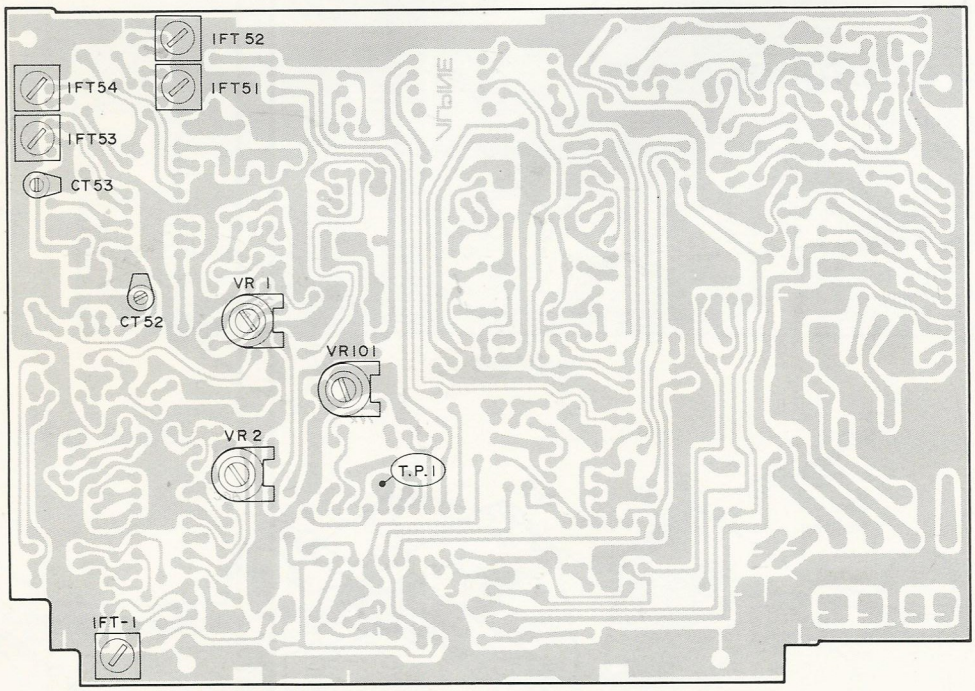
Adjustment Locations

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.



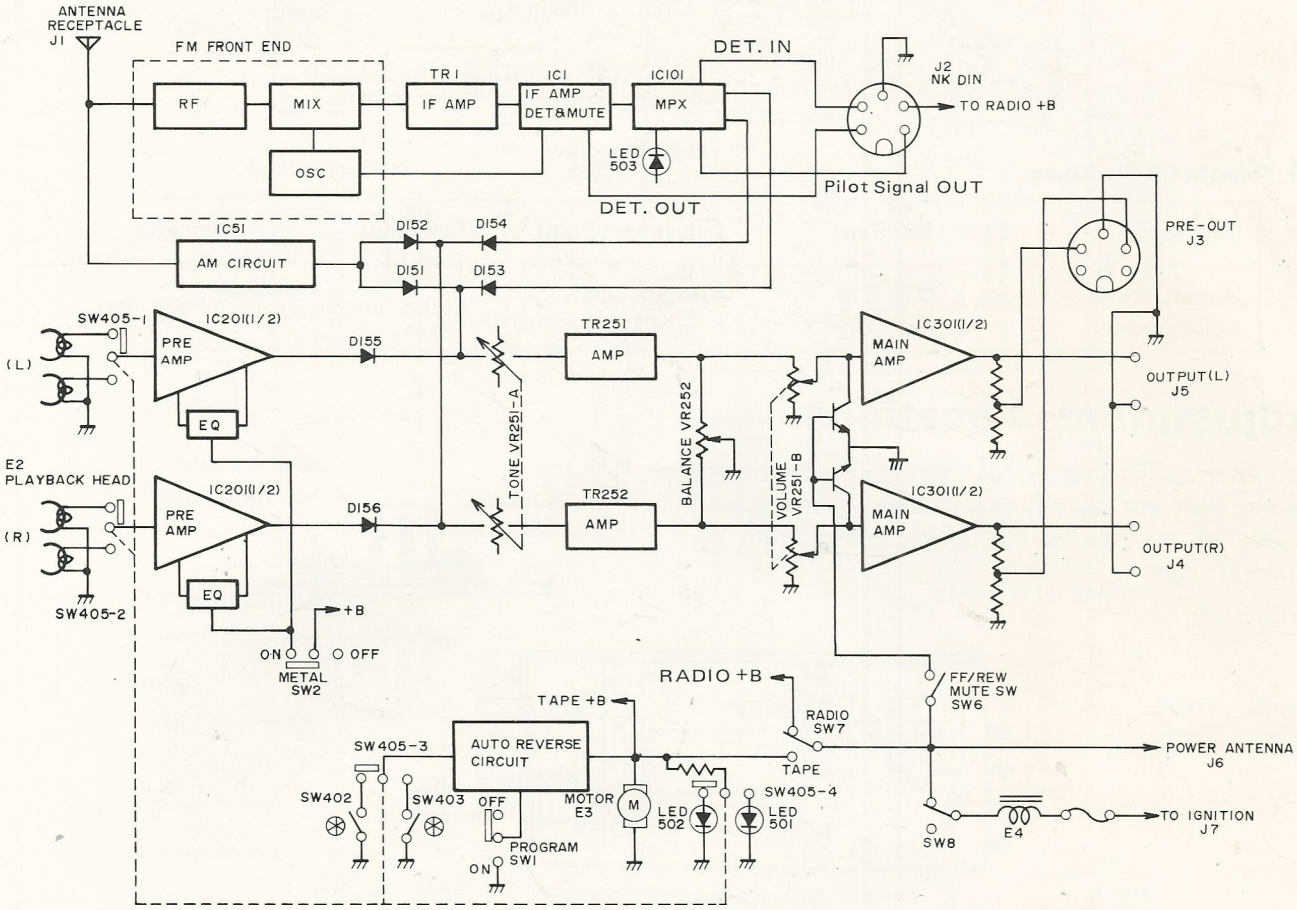


Tuner Assembly



Radio & Main Amplifier P.C. Board

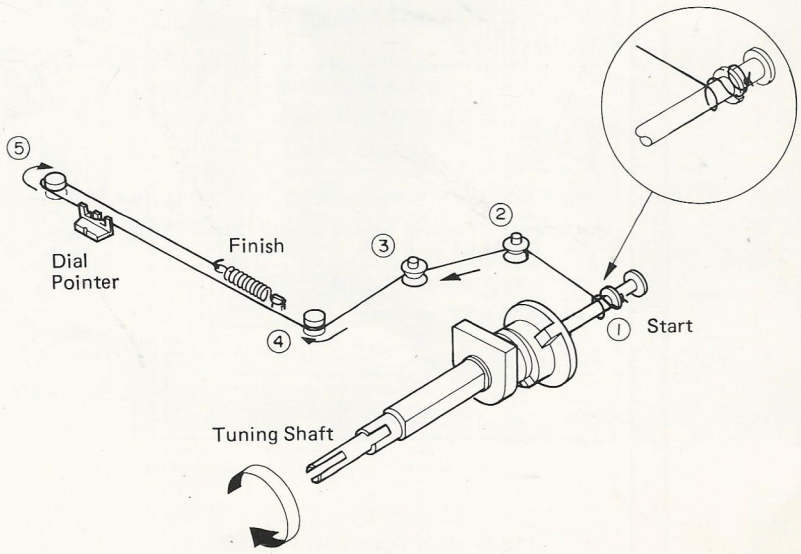
Block Diagram



Dial Cord Stringing

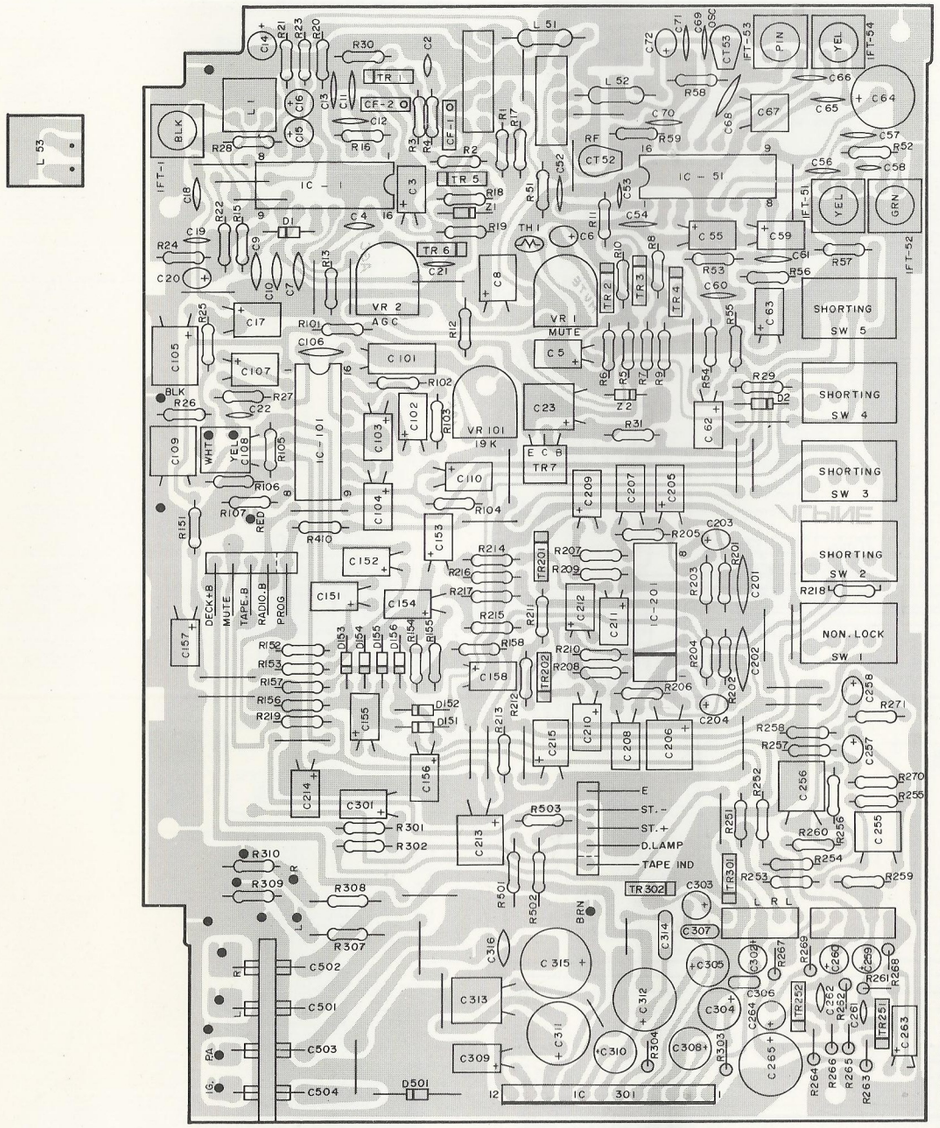
(1) Set the tuning shaft fully counterclockwise position.

(2) Wind the dial cord in the numerical sequence as shown in the direction of the arrows.

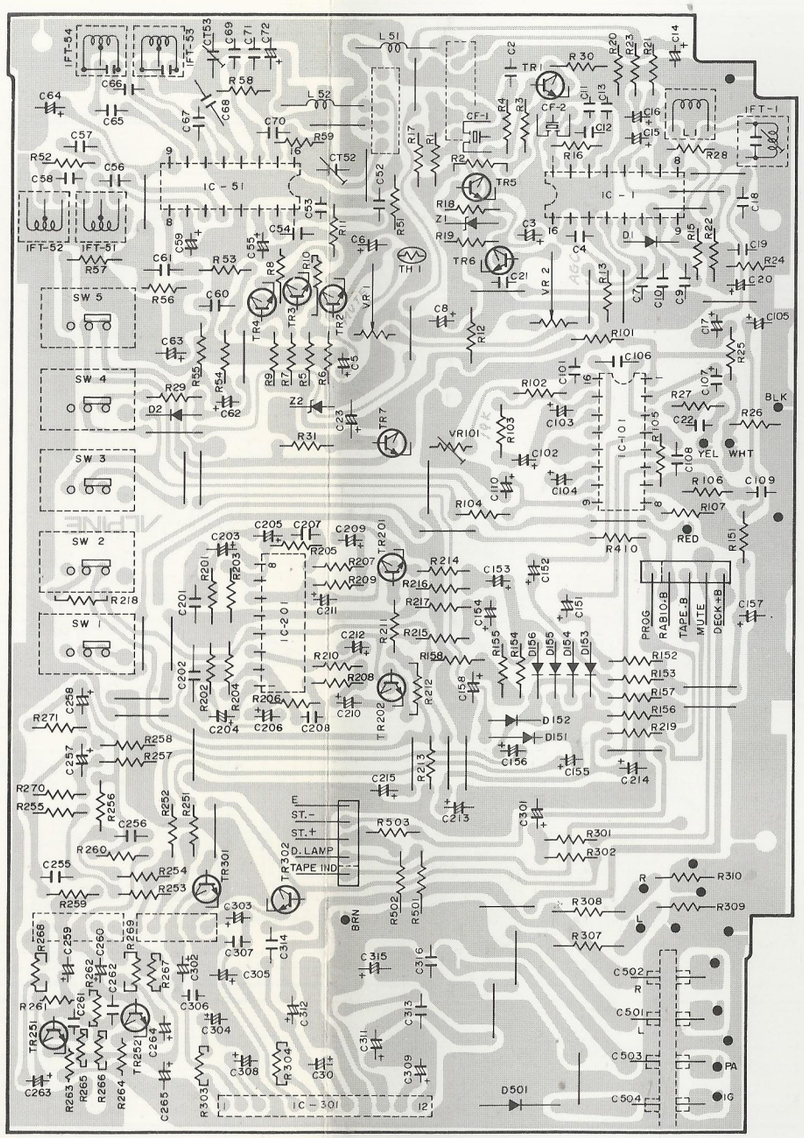


Parts Layout on P.C. Boards

Radio & Main P.C.Board

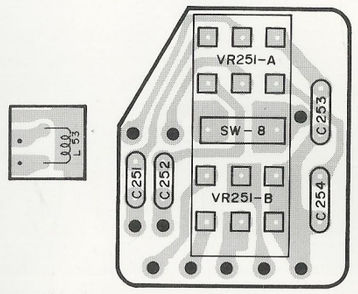


Top View

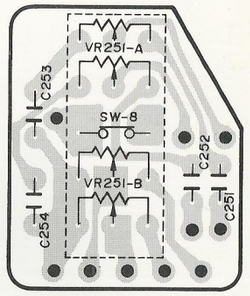


Bottom View

Volume P.C.Board

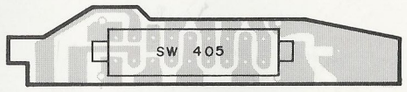


Top View

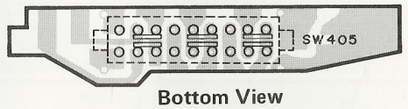


Bottom View

Slide Switch P.C.Board

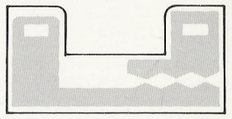


Top View



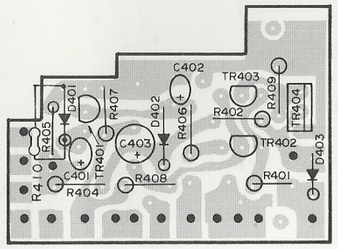
Bottom View

Static P.C. Board

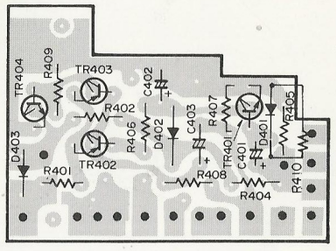


Bottom View

Auto Reverse P.C.Board

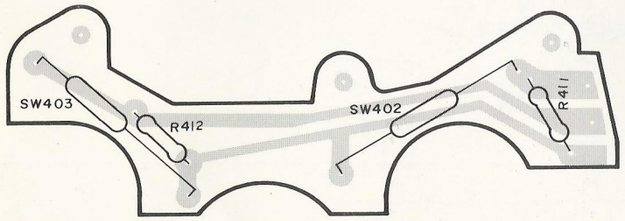


Top View

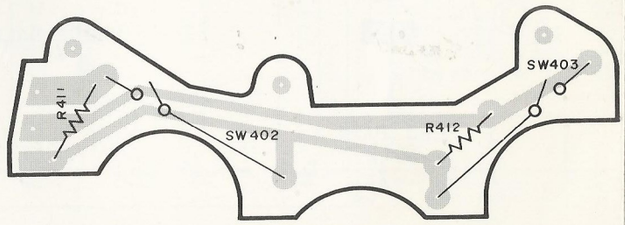


Bottom View

Reed Switch P.C. Board

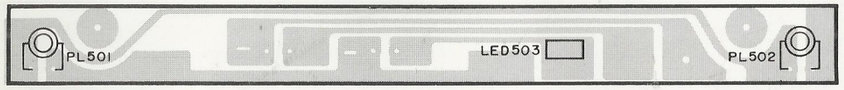


Top View

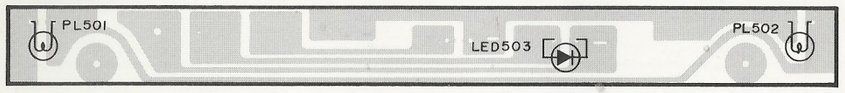


Bottom View

Lamp P.C.Board

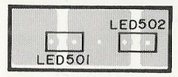


Top View



Bottom View

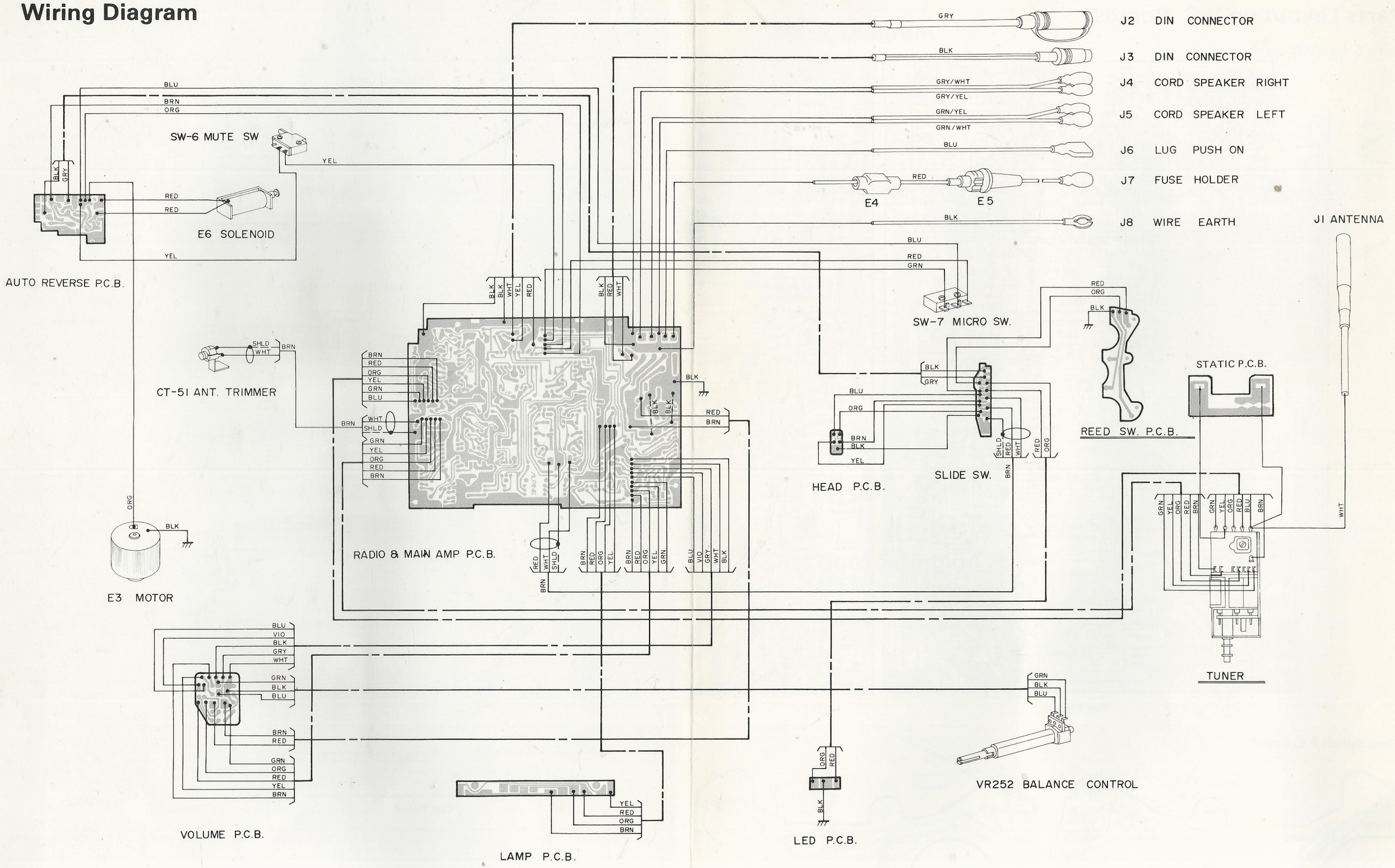
LED P.C.Board



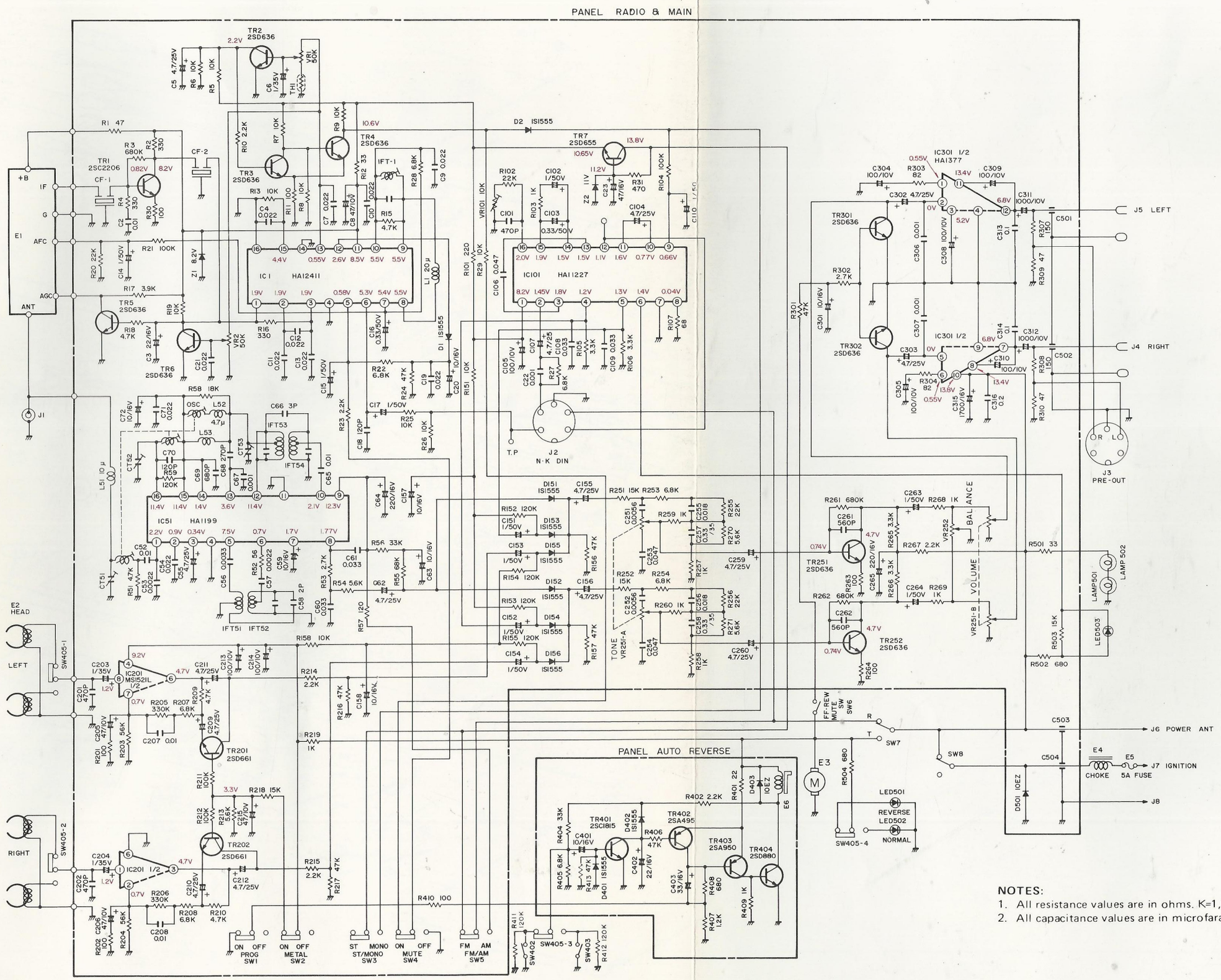
Top View

Bottom View

Wiring Diagram



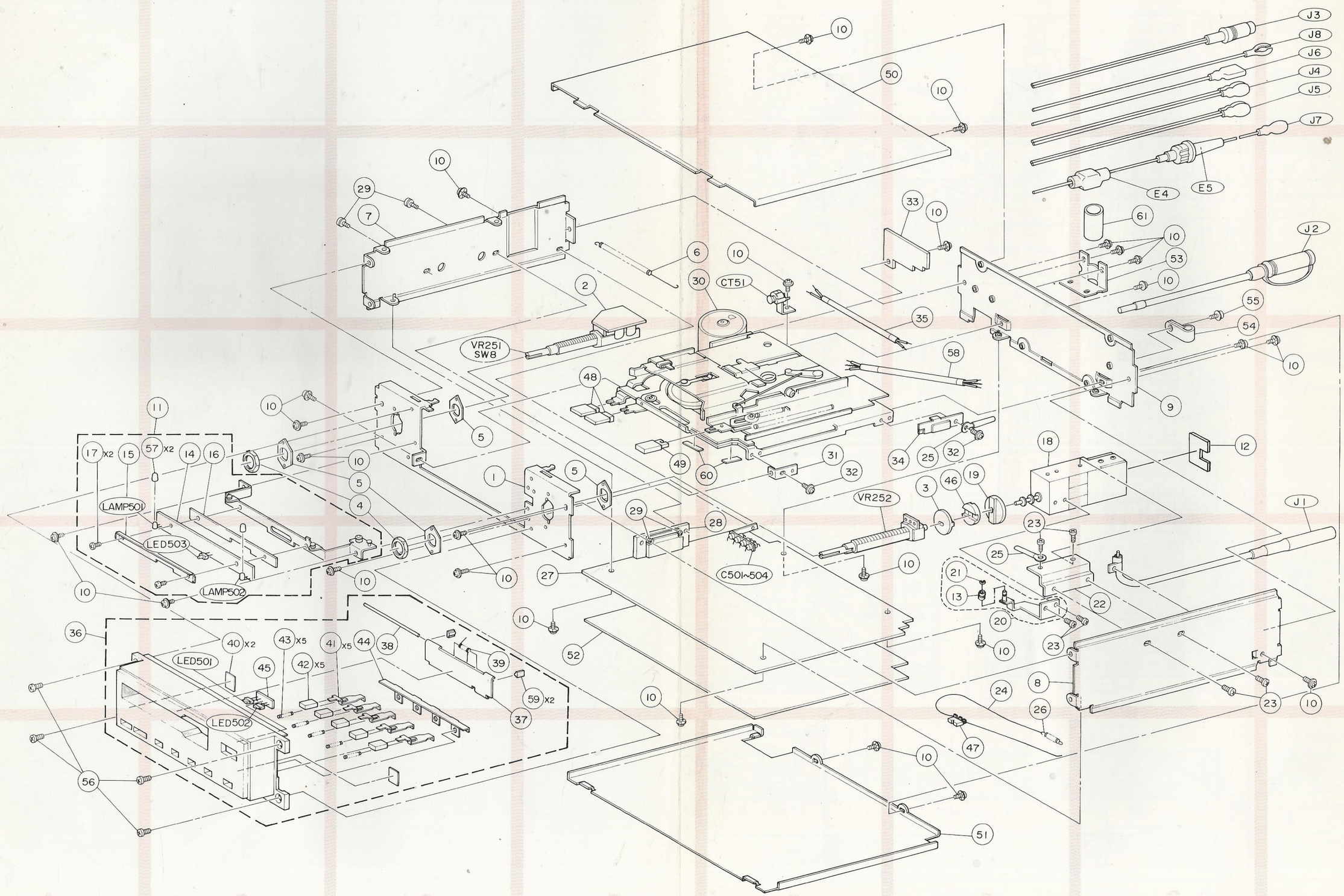
Schematic Diagram



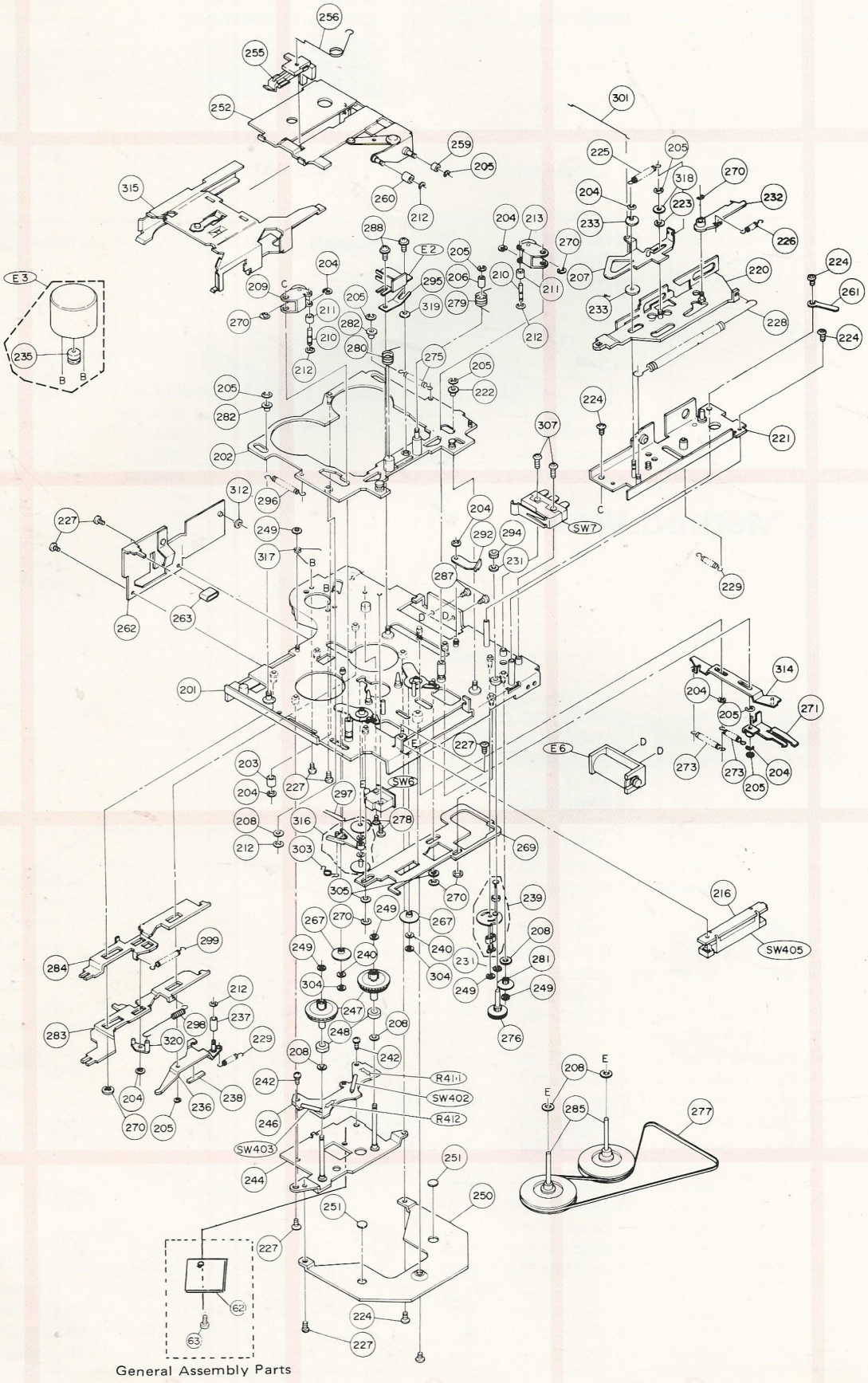
NOTES:

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

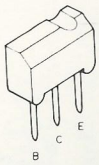
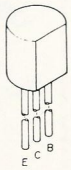
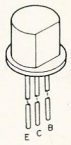
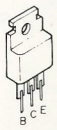
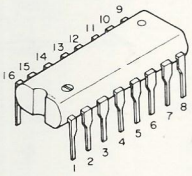
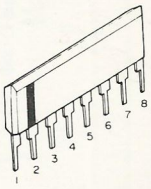
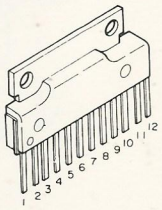
Exploded View (General)



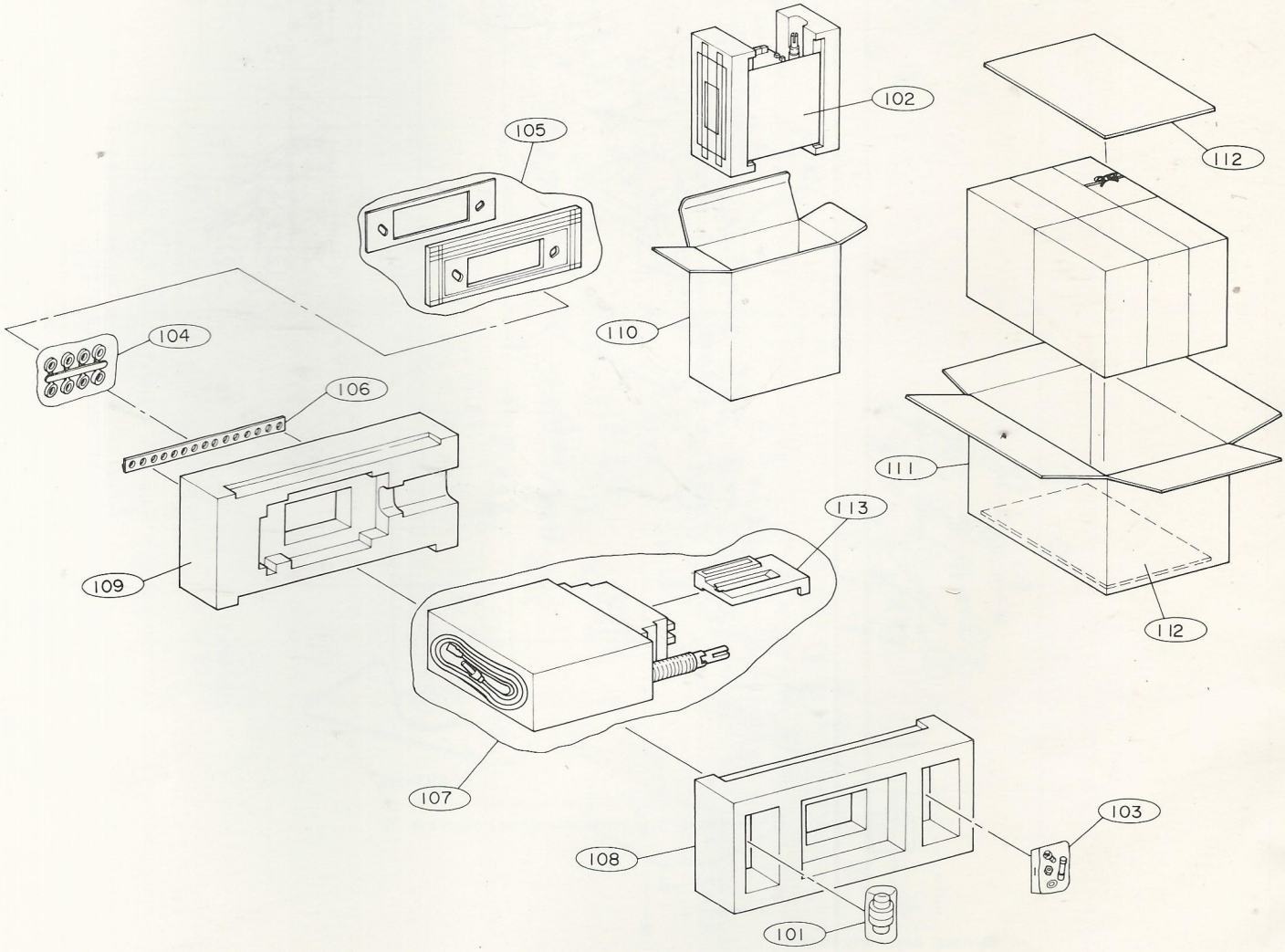
Exploded View (Mechanism)



Semi-Conductor Lead Identifications

2SC2206(B) : TR1 **2SD636** : TR2 to TR6, TR251, TR252, TR301, TR302 **2SD661(U)** : TR201, TR202 		**2SD655** : TR7 **2SC1815(Y)** : TR401 **2SA950(Y)** : TR403 	**2SA495** : TR402 
2SD880 : TR404 	**HA12411** : IC1 **HA1199** : IC51 **HA11227** : IC101 	**M51521L** : IC201 	**HA1377** : IC301 

Packing Method View



Parts List

Symbol No.	Parts Number	Description
Radio & Main Panel Assembly		
Ics		
IC1	51T44157U01	HA12411
IC51	51T44774P01	HA1199
IC101	51T40170U01	HA11227
IC201	51S42211P01	M51521L
IC301	51T42459F01	HA1377
Transistors & Thermistor		
TR1	48T44160U02	2SC2206-B
TR2	48T40627U01	2SD636
TR3	48T40627U01	2SD636
TR4	48T40627U01	2SD636
TR5	48T40627U01	2SD636
TR6	48T40627U01	2SD636
TR7	48T41364U01	2SD655
TR201	48T42182U01	2SD661-U
TR202	48T42182U01	2SD661-U
TR251	48T40627U01	2SD636
TR252	48T40627U01	2SD636
TR301	48T40627U01	2SD636
TR302	48T40627U01	2SD636
TH1	48T40137T01	Thermistor, D33A
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
D501	48C40235G02	10E2
Z1	48T40059U20	Zener, HZ9A-2L
Z2	48T40059U34	Zener, HZ11C-1L
Coils & Filters		
IFT1	24T42657U01	IF
IFT51	24T44151U01	AM IF (Yel)
IFT52	24T44152U01	AM IF (Grn)
IFT53	24T44153U01	AM IF (Pnk)
IFT54	24T44151U01	AM IF (Yel)
L1	24T42658U01	20 μH
L51	24T41686U21	Inductor
L52	24T41686U17	Inductor 4.7 μH
L53	24T44154U01	AM OSC (Red)
CF1	91T40309T02	Filter, Ceramic
CF2	91T40309T02	Filter, Ceramic
or	91T40309T03	Filter, Ceramic
or	91T40309T04	Filter, Ceramic
Switches		
SW1	40T43726F03	Switch, Push
SW2	40T43726F01	Switch, Push
SW3	40T43726F01	Switch, Push
SW4	40T43726F01	Switch, Push
SW5	40T43726F01	Switch, Push
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	23S41059P26	Tantalum 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
C53	8T44979P04	Ceramic 2200 pF
C54	8T44979P10	Ceramic 22000 pF
C55	23T43247F08	Electrolytic 4.7 uF/25V
C56	8T44979P05	Ceramic 3300 pF

Symbol No.	Part No.	Description
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	Polyester 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 pF
C107	23T43247F08	Electrolytic 4.7 uF/25V
C108	8T42629F23	Mylar 0.033 uF
C109	8T42629F23	Mylar 0.033 uF
C110	23T43247F01	Electrolytic 0.1 uF/50V
C151	23T43247F05	Electrolytic 1 uF/50V
C152	23T43247F05	Electrolytic 1 uF/50V
C153	23T43247F05	Electrolytic 1 uF/50V
C154	23T43247F05	Electrolytic 1 uF/50V
C155	23T43247F08	Electrolytic 4.7 uF/25V
C156	23T43247F08	Electrolytic 4.7 uF/25V
C157	23T43247F09	Electrolytic 10 uF/16V
C158	23T43247F09	Electrolytic 10 uF/16V
C201	8S44505P45	Ceramic H 470 pF
C202	8S44505P45	Ceramic H 470 pF
C203	23S41059P07	Tantalum 1 uF/35V
C204	23S41059P07	Tantalum 1 uF/35V
C205	23S41198U26	Electrolytic 47 uF/10V
C206	23S41198U26	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	23T43707U02	Electrolytic 100 uF/10V
C214	23T43707U02	Electrolytic 100 uF/10V
C215	23S41198U26	Electrolytic 47 uF/10V
C255	8T42629F20	Mylar 0.018 uF
C256	8T42629F20	Mylar 0.018 uF
C257	23S41059P04	Tantalum 0.33 uF/35V
C258	23S41059P04	Tantalum 0.33 uF/35V
C259	23T43247F08	Electrolytic 4.7 uF/25V

Symbol No.	Part No.	Description
C260	23T43247F08	Electrolytic 4.7 uF/25V
C261	21C45322G40	Ceramic 560 pF/50V
C262	21C45322G40	Ceramic 560 pF/50V
C263	23T43247F05	Electrolytic 1 uF/50V
C264	23T43247F05	Electrolytic 1 uF/50V
C265	23B44780P03	Electrolytic 220 uF/16V
C301	23T43247F09	Electrolytic 10 uF/16V
C302	23T43247F08	Electrolytic 4.7 uF/25V
C303	23T43247F08	Electrolytic 4.7 uF/25V
C304	23S41198U33	Electrolytic 100 uF/10V
C305	23S41198U33	Electrolytic 100 uF/10V
C306	8T42629F05	Mylar 0.001 uF
C307	8T42629F05	Mylar 0.001 uF
C308	23S41198U33	Electrolytic 100 uF/10V
C309	23S41190U33	Electrolytic 100 uF/10V
C310	23S41198U33	Electrolytic 100 uF/10V
C311	23C42170G24	Electrolytic 1000 uF/10V
C312	23C42170G24	Electrolytic 1000 uF/10V
C313	8T42629F29	Mylar 0.1 uF
C314	8T42629F29	Mylar 0.1 uF
C315	23T43682F01	Electrolytic 1700 uF/16V
C316	21B41870J03	Ceramic 0.2 uF
CT52	20T44156U01	Trimmer 40 pF
CT53	20T44156U01	Trimmer 40 pF

Resistors (All resistors are Carbon Film, ±5%, unless otherwise noted.)

R1	6T43159F33	47 ohm 1/8W
R2	6T43159F53	330 ohm 1/8W
R3	6T43160F34	680K ohm 1/8W
R4	6T43159F53	330 ohm 1/8W
R5	6T43159F89	10K ohm 1/8W
R6	6T43159F89	10K ohm 1/8W
R7	6T43159F89	10K ohm 1/8W
R8	6T43159F89	10K ohm 1/8W
R9	6T43159F89	10K ohm 1/8W
R10	6T43159F73	2.2K ohm 1/8W
R11	6T43159F41	100 ohm 1/8W
R12	6S40150T29	33 ohm 1/8W
R13	6T43159F89	10K ohm 1/8W
R15	6T43159F81	4.7K ohm 1/8W
R16	6T43159F53	330 ohm 1/8W
R17	6T43159F79	3.9K ohm 1/8W
R18	6T43159F81	4.7K ohm 1/8W
R19	6T43159F89	10K ohm 1/8W
R20	6T43159F97	22K ohm 1/8W
R21	6T43160F14	100K ohm 1/8W
R22	6T43159F85	6.8K ohm 1/8W
R23	6T43159F73	2.2K ohm 1/8W

Symbol No.	Parts Number	Description
R24	6T43160F06	47K ohm 1/8W
R25	6T43159F89	10K ohm 1/8W
R26	6T43159F89	10K ohm 1/8W
R27	6T43159F85	6.8K ohm 1/8W
R28	6T43159F85	6.8K ohm 1/8W
R29	6T43159F89	10K ohm 1/8W
R30	6T43159F41	100 ohm 1/8W
R31	6T43159F57	470 ohm 1/8W
R51	6T43159F81	4.7K ohm 1/8W
R52	6T43159F35	56 ohm 1/8W
R53	6T43159F75	2.7K ohm 1/8W
R54	6T43159F83	5.6K ohm 1/8W
R55	6T43160F10	68K ohm 1/8W
R56	6T43160F02	33K ohm 1/8W
R57	6T43159F43	120 ohm 1/8W
R58	6T43159F95	18K ohm 1/8W
R59	4T43160F16	120K ohm 1/8W
R101	6T43159F49	220 ohm 1/8W
R102	6T43159F97	22K ohm 1/8W
R103	6T43159F65	1K ohm 1/8W
R104	6T43160F14	100K ohm 1/8W
R105	6T43159F77	3.3K ohm 1/8W
R106	6T43159F77	3.3K ohm 1/8W
R107	6T43159F37	68 ohm 1/8W
R151	6T43159F89	10K ohm 1/8W
R152	6T43160F16	120K ohm 1/8W
R153	6T43160F16	120K ohm 1/8W
R154	6T43160F16	120K ohm 1/8W
R155	6T43160F16	120K ohm 1/8W
R156	6T43160F06	47K ohm 1/8W
R157	6T43160F06	47K ohm 1/8W
R158	6T43159F89	10K ohm 1/8W
R201	6T43159F41	100 ohm 1/8W
R202	6T43159F41	100 ohm 1/8W
R203	6T43160F08	56K ohm 1/8W
R204	6T43160F08	56K ohm 1/8W
R205	6T43160F26	330K ohm 1/8W
R206	6T43160F26	330K ohm 1/8W
R207	6T43159F85	6.8K ohm 1/8W
R208	6T43159F85	6.8K ohm 1/8W
R209	6T43159F81	4.7K ohm 1/8W
R210	6T43159F81	4.7K ohm 1/8W
R211	6T43160F14	100K ohm 1/8W
R212	6T43160F14	100K ohm 1/8W
R213	6T43159F83	5.6K ohm 1/8W
R214	6T43159F73	2.2K ohm 1/8W
R215	6T43159F73	2.2K ohm 1/8W
R216	6T43160F06	47K ohm 1/8W
R217	6T43160F06	47K ohm 1/8W
R218	6T43159F93	15K ohm 1/8W
R219	6T43159F65	1K ohm 1/8W
R251	6T43159F93	15K ohm 1/8W
R252	6T43159F93	15K ohm 1/8W

Symbol No.	Parts Number	Description
R253	6T43159F85	6.8K ohm 1/8W
R254	6T43159F85	6.8K ohm 1/8W
R255	6T43159F97	22K ohm 1/8W
R256	6T43159F97	22K ohm 1/8W
R257	6T43159F65	1K ohm 1/8W
R258	6T43159F65	1K ohm 1/8W
R259	6T43159F65	1K ohm 1/8W
R260	6T43159F65	1K ohm 1/8W
R261	6S41801P66	680K ohm
R262	6S41801P66	680K ohm
R263	6S41040U41	100 ohm 1/8W
R264	6S41040U41	100 ohm 1/8W
R265	6S41040U77	3.3K ohm 1/8W
R266	6S41040U77	3.3K ohm 1/8W
R267	6S41801P36	2.2K ohm
R268	6S41801P32	1K ohm
R269	6S41801P32	1K ohm
R270	6T43159F83	5.6K ohm 1/8W
R271	6T43159F83	5.6K ohm 1/8W
R301	6T43160F06	47K ohm 1/8W
R302	6T43159F75	2.7K ohm 1/8W
R303	6S41801P19	82 ohm
R304	6S41801P19	82 ohm
R307	6S40150T45	150 ohm
R308	6S40150T45	150 ohm
R309	6S40150T33	47 ohm
R310	6S40150T33	47 ohm
R410	6S41040U41	100 ohm 1/8W
R501	6S40150T29	33 ohm
R502	6S40150T61	680 ohm
R503	6T43159F93	15K ohm 1/8W
VR1	18C42061J15	Variable 50K ohm
VR2	18C42061J15	Variable 50K ohm
VR101	18C42061J14	Variable 10K ohm

Reverse Panel Assembly

Transistors		
TR401	48T43525F02	2SC1815-Y
TR402	48S43238G01	2SA495
TR403	48T43526F02	2SA950-Y
TR404	48T42620F02	2SD880-Y
or	48T42620F03	2SD880-GR

Diodes		
D401	48S134816	SI 1S1555
D402	48S134816	SI 1S1555
D403	48C40235G02	10E2

Symbol No.	Part No.	Description
Capacitors		
C401	23S41059P26	Tantalum 10 uF/16V
C402	23S41059P32	Tantalum 22 uF/16V
C403	23S41198U20	Electrolytic 33 uF/16V
Resistors		
R401	6D40801G23	22 ohm 1/2W
R402	6S41042U73	2.2K ohm 1/8W
R404	6S41043U02	33K ohm 1/8W
R405	6S41042U85	6.8K ohm 1/8W
R406	6S41043U06	47K ohm 1/8W
R407	6S41042U67	1.2K ohm 1/8W
R408	6S41042U61	680 ohm 1/8W
R409	6S41042U65	1K ohm 1/8W
R413	6S41043U06	47K ohm 1/8W
Miscellaneous		
C251	8T42629F14	Capacitor, Mylar 0.0056 μF
C252	8T42629F14	Capacitor, Mylar 0.0056 μF
C253	8T42629F25	Capacitor, Mylar 0.047 μF
C254	8T42629F25	Capacitor, Mylar 0.047 μF
C501	8T43425F01	Capacitor, Feed Through
C502	8T43425F01	Capacitor, Feed Through
C503	8T43425F01	Capacitor, Feed Through
C504	8T43425F01	Capacitor, Feed Through
CT51	20T42175F03	Capacitor, Trimmer 70 pF
E2	88T43739U01	Head, Playback
E3	1V41500F34	Assembly, Motor
E4	25T43198U02	Extention, Choke
E5	65A40348G01	Fuse, 5A
E6	1T43639F01	Assembly, Solenoid
J1	9T43184F01	Receptacle, Antenna
J2	1T43684F01	Assembly, Din Connector
J3	30T43045F01	Connector, Din
J4	30T40337U23	Cord, Speaker
J5	30T40337U24	Cord, Speaker
J6	1B42187J13	Assembly, Lug Push On
J7	1T43751U04	Assembly, Fuse Holder
J8	30T40438U01	Wire, Ground
LAMP 501	65B43447J01	Lamp
LAMP 502	65B43447J01	Lamp
LED 501	48T41907F01	LED, PG5532TX (Grn)
LED 502	48T41907F01	LED, PG5532TX (Grn)
LED 503	48T41469U01	LED (Grn)
R411	6S41043U16	Resistor, Carbon Film 120K ohm 1/8W
R412	6S41043U16	Resistor, Carbon Film 120K ohm 1/8W
R504	6S40150T61	Resistor Carbon Film, 680 ohm
SW6	40T41665F01	Switch, Slide
SW7	40T42603F02	Switch, Micro
SW402	40T40641U02	Switch, Reed
SW403	40T40641U02	Switch, Reed
SW405	40T43066F01	Switch, slide
VR251 / SW8	18T43442F01	Control, Volume
VR252	18T43443F01	Control, Balance
General Assembly Parts		
1	27C43415F01	Chassis, Front
2	84A43440F01	Panel, Volume
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	3S40019G75	Screw, F-Locks (M2.6 x 4)
11	1V43300F52	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	1V43300F53	Assembly, Radio & Main
28	7A43046F01	Bracket, Heat Sink
29	3C40014G09	Screw, Machine (M3 x 5)
30	81D43688F01	Deck, Cassette G x 75B350
31	7A43427F01	Bracket, Deck R
32	3S40019G71	Screw, F-Locks (M2.6 x 3)
33	1V43200F48	Assembly, Reverse Panel
34	7A44473F01	Bracket, Deck Cover
35	30C44673J76	Shield, C.W.
36	1V43300F55	Assembly, Nose Piece
37	15B42654F08	Cover, Dust

Symbol No.	Part No.	Description
38	47A42655F01	Shaft, Door
39	41A43598P04	Spring, Dust Cover
40	26A44358F01	Reflector
41	7A43412F01	Bracket, Knob
42	36A42658F02	Knob, Push
43	41A43414F01	Spring, Knob
44	7A43413F01	Bracket, Stopper
45	84A43441F01	Panel, LED
46	45A41744U01	Arm, Orudamu B
47	52A43423F01	Pointer
48	36B43430F01	Knob, FF/REW
49	36B43432F01	Knob, Eject
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	Lamp, Bushing Pilot
58	30C43811P17	Shield, C.W.
59	13D43409F02	Piece, Nose
60	75A44632G06	Pad, Cushion
61	37S44468G24	Tube, "UL" (50)
62	26B44296F01	Shield, Panel
63	3S43997P36	Screw, Machine Bind (M2.6 x 3)

→ See Exploded View (Mechanism) on page 17.

Tape Mechanism Assembly Parts

Symbol No.	Part No.	Description
201	1C43214F01	Assembly, Rivet Chassis
202	1C41840F01	Assembly, Rivet Head Base
203	43A41812F02	Sleeve
204	4C42091G05	Washer, "C" (ϕ2)
205	4C42091G06	Washer, "C" (ϕ1.5)
206	43A41079F01	Spacer
207	45B41068F01	Lever, Sub
208	4S40075G06	Washerk S.T.W. (0.25 x ϕ2.1 x ϕ4)
209	1T42578F01	Assembly, Pinch Roller
210	47A41003F01	Shaft, Pinch Roller Bracket
211	49A41004F01	Roller, Guide Shaft
212	4C42091G12	Washer, "C" (ϕ1.2)
213	1T42577F01	Assembly, Pinch Roller
214		– Not Used –
215		– Not Used –
216	84A43335F01	Switch, Panel
217		– Not Used –
218		– Not Used –
219		– Not Used –
220	1B42604F01	Assembly, Eject Lever
221	1B44164F01	Assembly, Rivet Frame Lever
222	49A43395F01	Roller, Head Base
223	4A41071F03	Washer (0.2 x ϕ2.4 x ϕ5)
224	3C40014G06	Screw, Machine (M2.6 x 5)
225	41B41559F12	Spring
226	41B41559F06	Spring
227	3C40014G12	Screw, Machine (M2.6 x 4)
228	41B41559F07	Spring
229	41B41559F08	Spring
230		– Not Used –
231	4S40075G12	Washer, S.T.W.(0.13 x ϕ1.7 x ϕ3.2)
232	1A41654F01	Assembly, E.J. Lock Lever
233	43A42872F01	Spacer
234		– Not Used –
235	49A41008F02	Pulley, Motor
236	1A41655F01	Assembly, Rivet Lock Lever
237	49A40984F01	Roller, Lock
238	75A44632G06	Pad, Cushion
239	1V41500F36	Assembly, Change Gear
240	4S40075G03	Washer, S.T.W.(0.25 x ϕ1.7 x ϕ3.2)
241		– Not Used –
242	3S40019G71	Screw, F-Lock (M2.6 x 3)
243		– Not Used –
244	1A41656F01	Assembly, Reel Shaft Bracket
245		– Not Used –
246	84A41741F01	Panel, Reed Switch
247	1T41831F01	Assembly, Reel
248	59B41224P02	Ring, Magnet
249	4A41345P02	Washer, Lock (0.25 x ϕ1.7 x ϕ3.5)
250	7A41087F01	Bracket, Flywheel
251	43A41006F01	Spacer, Polyethylene Slider
252	1A41657F01	Assembly, Rivet Plate Base
253		– Not Used –
254		– Not Used –
255	45B41346F01	Guide, Cassette
256	41A41590F01	Spring, Turn
257		– Not Used –
258		– Not Used –
259	43A41072F02	Spacer
260	43A41072F03	Spacer
261	29A737272	Lug, Wrap Around
262	1A41659F01	Assembly, Rivet Guide Bracket
263	75A41807F01	Cushion, Rubber
264		– Not Used –
265		– Not Used –
266		– Not Used –
267	44A41406F01	Gear, Take Up
268		– Not Used –
269	45B41051F01	Lever, Select
270	4C42091G04	Washer "C" (ϕ3)
271	1A42746F01	Assembly, Reverse Lever
272		– Not Used –
273	41B41559F11	Spring
274		– Not Used –
275	41B41559F04	Spring
276	44A41351F01	Gear, Pulley Wheel

Symbol No.	Part No.	Description
277	42A40969F01	Belt
278	3C40014G15	Screw, Machine (M2 x 8)
279	41A41453F01	Spring, Pinch Roller
280	41A41453F02	Spring, Pinch Roller
281	44A41350F01	Gear, Reverse Idler
282	49A41005F01	Roller, Head Base
283	45C41235F01	Lever, Fast Forward
284	45C41236F01	Lever, Rewind
285	1T42014F01	Assembly, Flywheel
286		— Not Used —
287	3S40011G81	Screw, Machine (M2 x 4)
288	3S40019G03	Screw, F-Lock (M2 x 4)
289		— Not Used —
290		— Not Used —
291		— Not Used —
292	45A41404F01	Lever, Switch
293		— Not Used —
294	44A41349F01	Gear, Pulley
295	41A41642P01	Spring, Head Adjust
296	41B41559F05	Spring
297	41A41393F01	Spring, FF/REW Idler Arm
298	41B41559F09	Spring
299	41B41559F10	Spring
300		— Not Used —
301	45A41392F01	Link, Connection
302		— Not Used —
303	41A42613F01	Spring, FF/REW Idler
304	4A41345P01	Washer, Lock (0.25 x ϕ1.2 x ϕ3.5)
305	4A41071F04	Washer (0.2 x ϕ4.2 x ϕ10)
306		— Not Used —
307	3S43997P49	Screw, Machine (M2.3 x 8)
308		— Not Used —
309		— Not Used —
310		— Not Used —
311		— Not Used —
312	4S40075G12	Washer, S.T.W. (0.25 x ϕ3.1 x ϕ5.4)
313		— Not Used —
314	1A41661F01	Assembly, Release Lever
315	1A41658F01	Assembly, Cassette Holder
316	1C41353F01	Assembly, FF/REW Idler
317	41A43244F01	Spring, Back Tension
318	4S40075G07	Washer, S.T.W. (0.5 x ϕ2.1 x ϕ4)
319	4C42091G07	Washer, S.T.W. (1 x ϕ7.5 x ϕ16)
320	1A41660F01	Assembly, FF/REW Link

Symbol No.	Part No.	Description
	Packing Assembly Parts	
101	1V42700U22	Assembly, Control Knob
101-1	36D44510U01	Knob, Control
101-2	36D44510U02	Knob, Control
101-3	56B40230G27	Sack, Polyethylene
102	1V43300F58	Assembly, Pamphlet
102-1	68P42990F22	Ownwer's Manual
102-2	56B40230G12	Sack, Polyethylene
102-3	54A44217U01	Card, Consumer
102-4	68P44370P26	Card, Warranty
102-5	54A40001F01	Card, Service Station List
102-6	54A45389F01	Card, Note
103	1V43300F59	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, Adapter
103-9	65A40348G01	Fuse 5A
103-10	46A42363F01	Stud, Bolt
103-11	56B40230G27	Sack, Polyethylene
103-12	3A43315G02	Screw, Machine
104	4C42206U01	Washer, Volume
105	33B43805F01	Assembly, Face Plate
105-1	33C43435F01	Plate, Face
105-2	33B43611F01	Plate, Accessory
105-3	56B40230G04	Sack, Polyethylene
106	42B40994G05	Strap, Receiver Mounting
107	56B40230G22	Sack, Polyethylene
108	56D43438F01	Tray, Packing (L)
109	56D43438F02	Tray, Packing (R)
110	56C40409F04	Carton, Packing
111	56C40410F04	Carton, Packing
112	56D41118J14	Pad, Packing
113	64B43136F01	Panel, Cassette