SHARP SERVICE MANUAL

OUTSTANDING RECEPTION THE WORLD OVER

GF-4646
GF-4646A

ATSM682082RCS

(PHOTO: GF-4646)

GF-4646
GF-4646A

In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

For the mechanical adjustment, refer to the RD-620/A Service Manual already issued.

SPECIFICATIONS

GENERAL

Power source:	
(GF-4646)	AC 120V 60Hz DC 9V("D" type x 6)
(GF-4646A)	AC 240V 50/60 Hz DC 9V(UM/SUM-1 type x 6)
Speakers:	10 cm (4") woofer x 2 Ceramic type tweeter x 2
Output power: (GF-4646)	MPO; 3.9W(1.95W+1.95W) (AC operation)
Output power: (GF-4646A)	PMPO; 10W(5W+5W) (AC operation) MPO; 7.2W (3.6 +3.6W) (AC operation) RMS; 4.6W (2.3 +2.3W) (DC operation, 10% distortion)
Semiconductors:	5 ICs 4 transistors 11 diodes 2 LEDs
Dimensions: Width;	426mm (16-3/4")
Depth;	96mm (3-3/4")
Height;	212mm (8-3/8")
Weight:	2.8 kg (6.1 tbs.) without batteries

TAPE RECORDER

Tape:	Compact cassette tape
Frequency response:	50Hz ~ 10,000Hz
Signal/noise ratio:	45dB
Input sensitivity and impedance:	
External mic.;	600 ohms
Loaded impedance:	
Headphones;	8 ohms ~ 25 ohms

RADIO

Frequency range:	FM; 87.6 MHz – 108 MHz AM; 525 kHz – 1,605 kHz

Specifications for this model are subject to change without prior notice.

SHARP CORPORATION
SHARP ELECTRONICS CORPORATION

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

NAMES OF PARTS

1. Built-in Microphone (L-ch)
2. Power/Battery indicator
3. FM Stereo Indicator
4. Band Selector
5. Function Selector
6. Volume Control
7. Tone Control
8. Balance Control
9. Tuning Control
10. Telescopic Rod Antenna
11. Built-in Microphone (R-ch)
12. Headphones Jack
13. AC Power Supply Socket
14. Cassette Holder
15. Record Button
16. Rewind Button
17. Playback Button
18. Fast-forward Button
19. Stop Button
20. Eject Button
21. Beat Cancel Switch
22. External Microphone Jacks
23. Battery Compartment Lid

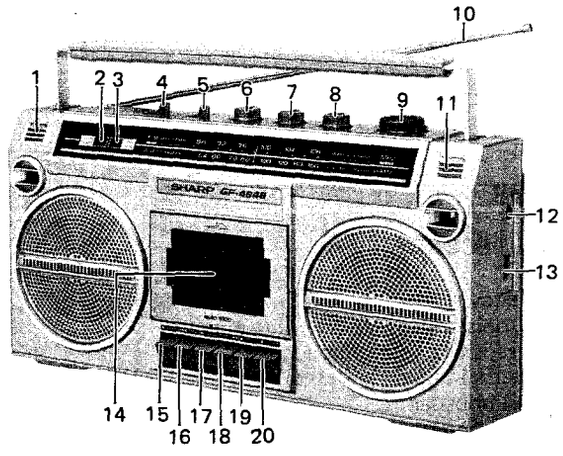


Figure 2-I

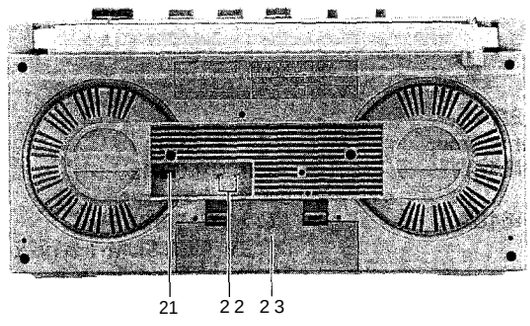
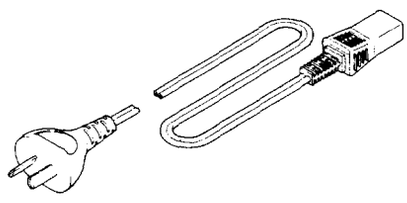
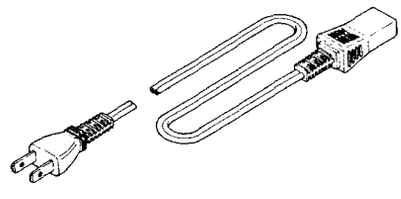


Figure 2-2

AC POWER SUPPLY CORD

QACCL0050AF00 (GF-4646A)	QACCD0051AFOO (GF-4646)
	

DISASSEMBLY

Caution:
Prior to the disassembly, be sure to remove the AC power supply cord, cassette tape and batteries from the unit.

■ FRONT CABINET REMOVAL

(Refer to Figures 3-I and 3–2)

1. **Remove the six screws Ⓐ and the six knobs Ⓑ**
2. **Push the eject button to open the cassette holder.**
3. **Pull the front cabinet frontward by holding its upper part and disconnect the three tips Ⓒ**

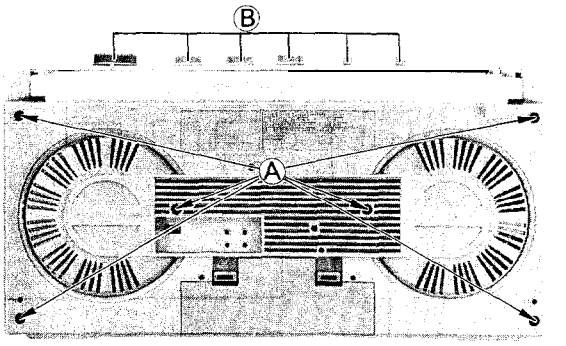


Figure 3-I

■ MECHANISM BLOCK REMOVAL

(Refer to Figure 3-2)

1. **Remove the three screws Ⓓ.**
2. **Disconnect the two sockets Ⓔ.**
3. **Unsolder the two tips Ⓕ , then the mechanism block can be removed.**

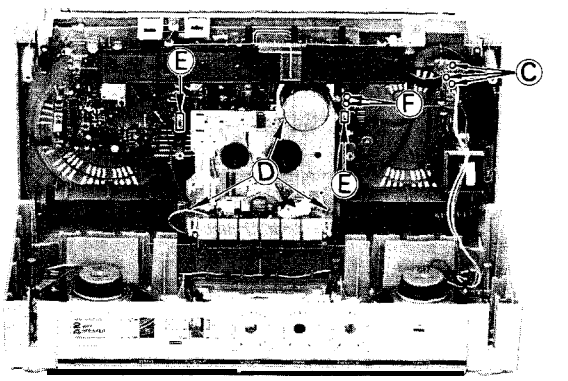


Figure 3-2

■ MAIN P.W.B. REMOVAL

(Refer to Figure 3-3)

1. **Remove the eleven screws Ⓖ.**
2. **Remove the LED P.W.B. from the two stoppers Ⓗ, then the main P.W.B. can be removed from the back cabinet.**

. POWER P.W.B. REMOVAL

(Refer to Figure 3-3)

1. **Remove the three screws Ⓘ**
2. **Remove the battery spring Ⓙ , then the power P.W.B. can be removed from the back cabinet.**

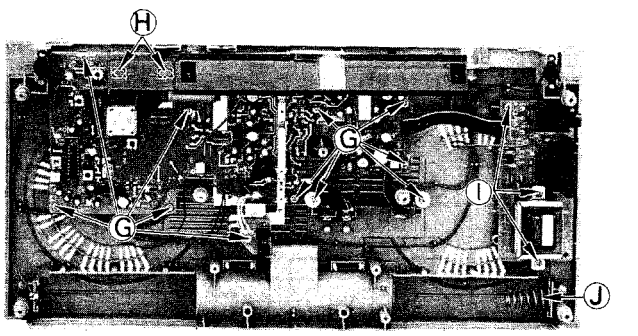


Figure 3-3

DIAL CORD STRINGING

1) Turn the drum fully clockwise and stretch its cord cover the parts in the numerical order-as shown in Figure 3-4.
2) Turn the tuning control shaft fully counterclockwise, and fix it with the pointer aligned with the zero (0) point on the frame. See Figure 3-5.

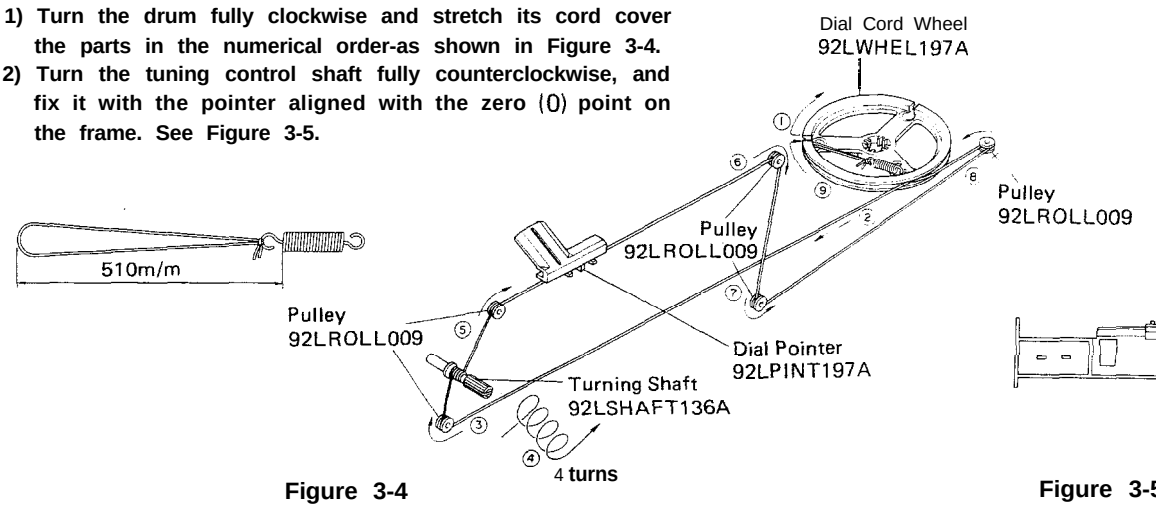


Figure 3-4

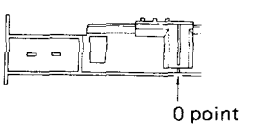


Figure 3-5

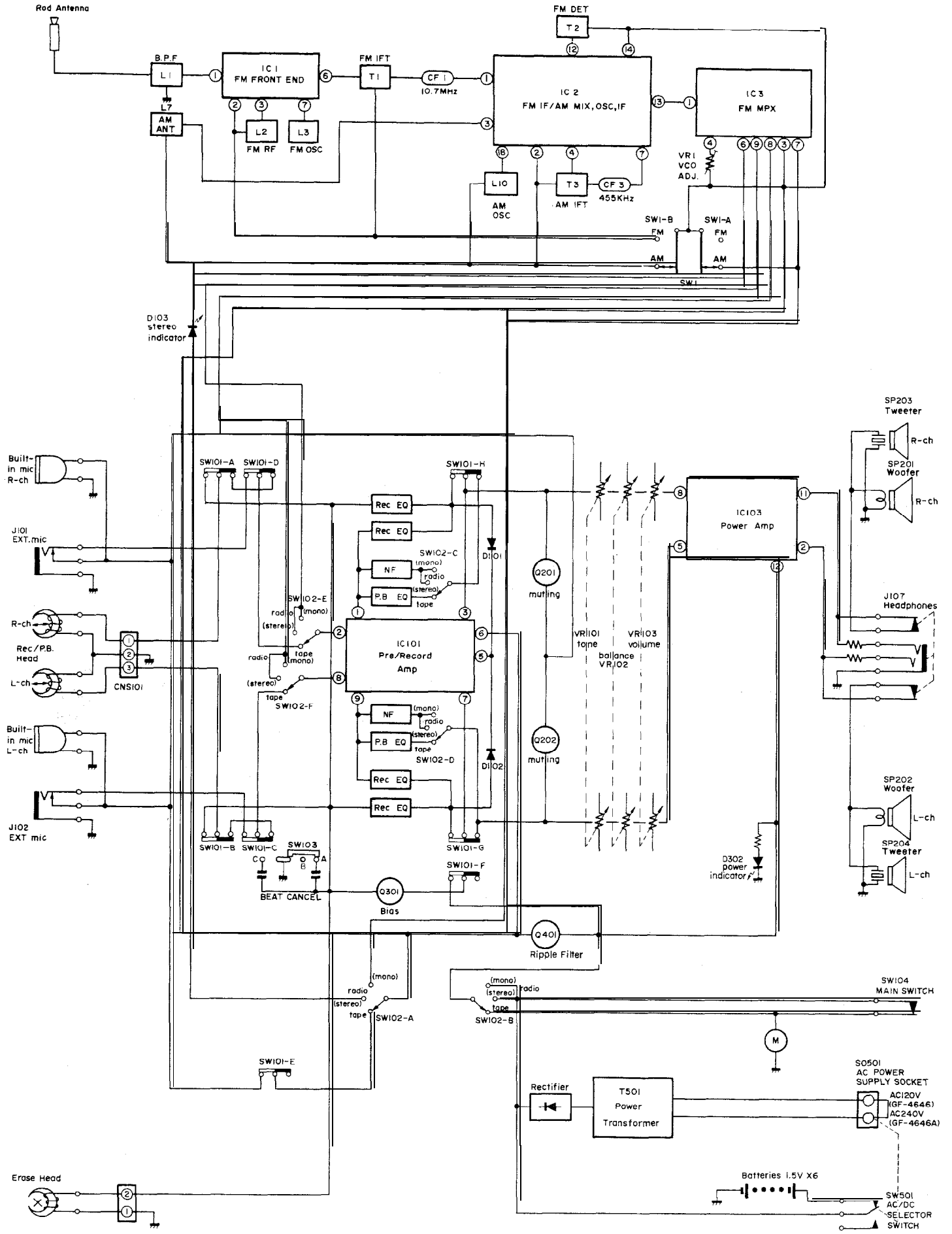


Figure 4 BLOCK DIAGRAM

MECHANICAL ADJUSTMENT

Except for the following item, refer to the RD-620/A Service Manual already issued.

- **RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT**
  As shown in Figure 5–1, make connection of instrument, and adjust the head azimuth adjusting screw so that the output signals from both channels will have maximum waveform with the same phase in right and left.

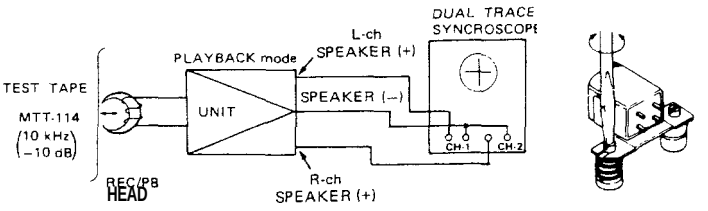


Figure 5-I

GENERAL ALIGNMENT INSTRUCTION

Should it become necessary at any time to check the alignment of this receiver, proceed as follows;

1. **Set the volume control (VR103) to maximum.**
2. **Attenuate the signals from the generator enough to swing the most sensitive range of the output meter.**
3. **Use a non-metallic alignment tool.**
4. **Repeat adjustments to insure good results.**
5. **Set the Function Selector Switch (SW102) to "radio" position.**

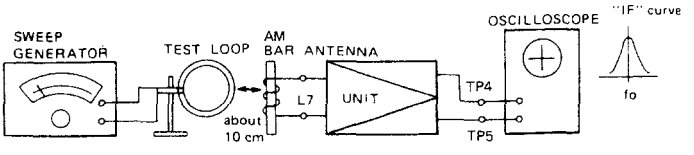


Figure 5-2

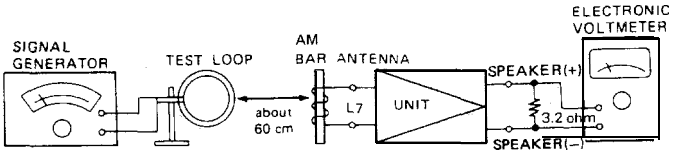


Figure 5-3

AM IF/RF ALIGNMENT

- **Set the signal generator to produce a signal of 400Hz, 30%, AM modulated.**
- **For adjustments in steps 4, see Note A .**

STEP	BAND	TEST STAGE	FREQUENCY	DIAL SETTING	ADJUSTMENT	REMARKS
IF (As shown in Figure 5-2, make connection of instruments.)						
1	AM	IF	455 kHz	High end of dial	T3	Adjust for best "IF" curve
RF (As shown in Figure 5-3, make connection of instruments.)						
2	AM	Band coverage	510 kHz	Low end of dial	L10	Adjust for maximum output
3	AM		1650 kHz	High end of dial	TC8	
4	AM	Tracking	600 kHz	600 kHz	L7	
5	AM		1400 kHz	1400 kHz	TC5	
6	Repeat steps 2,3,4 and 5 until no further improvement can be made.					

Note A **Check the alignment of the receiver antenna coil by bringing a piece of ferrite (such as a coil slug) near the antenna loop stick, then a piece of brass. If ferrite increases output, loop requires more inductance. If brass increases output, loop requires less inductance. Change loop inductance by sliding the bobbin toward the center of ferrite core to increase inductance, or away to decrease inductance.**

FM IF/RF ALIGNEMNT

- **Set the signal generator to produce a signal of 400Hz,30%, FM modulated.**

STEP	BAND	TEST STAGE	FREQUENCY	DIAL SETTING	ADJUSTMENT	REMARKS
IF (As shown in Figure 6–1, make connection of instruments.)						
1	FM	IF	10.7 MHz	High end of dial	T1 T2	Adjust for best "S" curve
RF (As shown in Figure 6–2, make connection of instruments.)						
2	FM	Band coverage	87.1 MHz	Low end of dial	L3	Adjust for maximum output
3	FM		109.0 MHz	High end of dial	TC2	
4	FM		88 MHz	88 MHz		
5	FM	ing	108 MHz	108 MHz	TC1	
6	Repeat steps 2,3,4 and 5 until no further improvement can be made.					

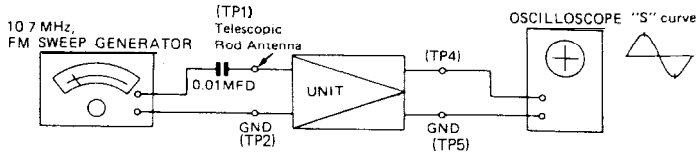


Figure 6-I

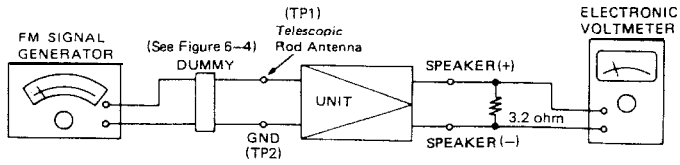


Figure 6-2

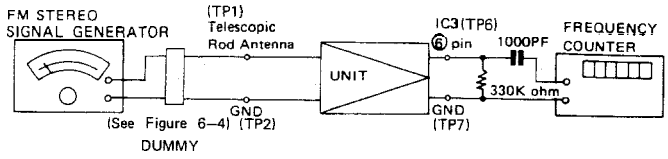


Figure 6-3

FM STEREO ALIGNEMNT

- **Set the Band Selector Switch (SW1) to "FM" position and Function Switch (SW102) to "stereo" position.**
- **As shown in Figures 6-3 and 6-4, make connection of instrument.**

FREQUENCY	DIAL POINTER	ADJUSTMENT	REMARKS
98MHz (54dB) un modulated	98MHz	VR1	Adjust for 38 ±0.15kHz

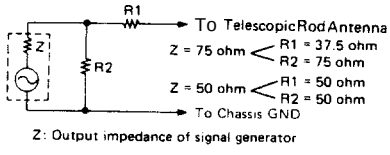


Figure 6-4 FM DUMMY

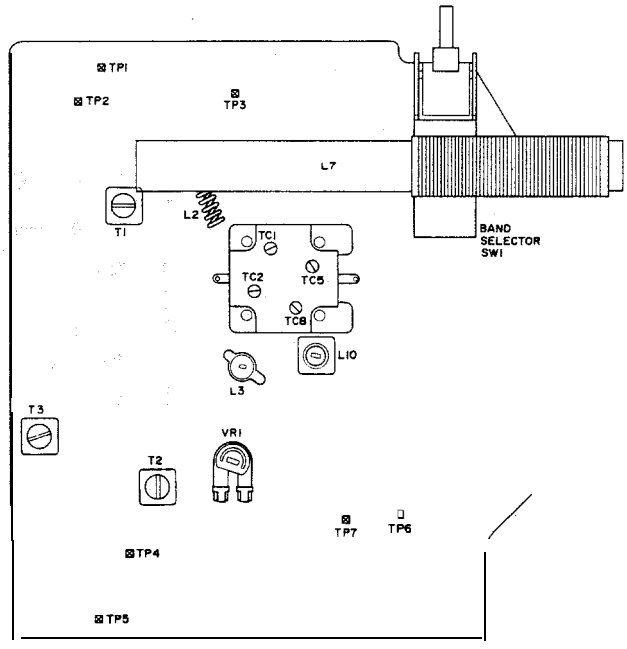


Figure 6-5 ALIGNMENT POINTS

NOTES ON SCHEMATIC DIAGRAM

1. **Resistor:**
   - **Unless otherwise specified all resistance in ohms, K=1000 ohms**
2. **Capacitor:**
   - *** Unless otherwise specified all capacitance in microfarads, P= Picofarads**
   - **(CH),(RH): Temperature compensation**
3. **Voltage reading are measured with Digital Multimeter under no signal condition in tape position.**
   ( ): AM mode
   : FM mode
4. **—W—: Printed resistor**
5. **Parts marked with "⚠"( ) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.**

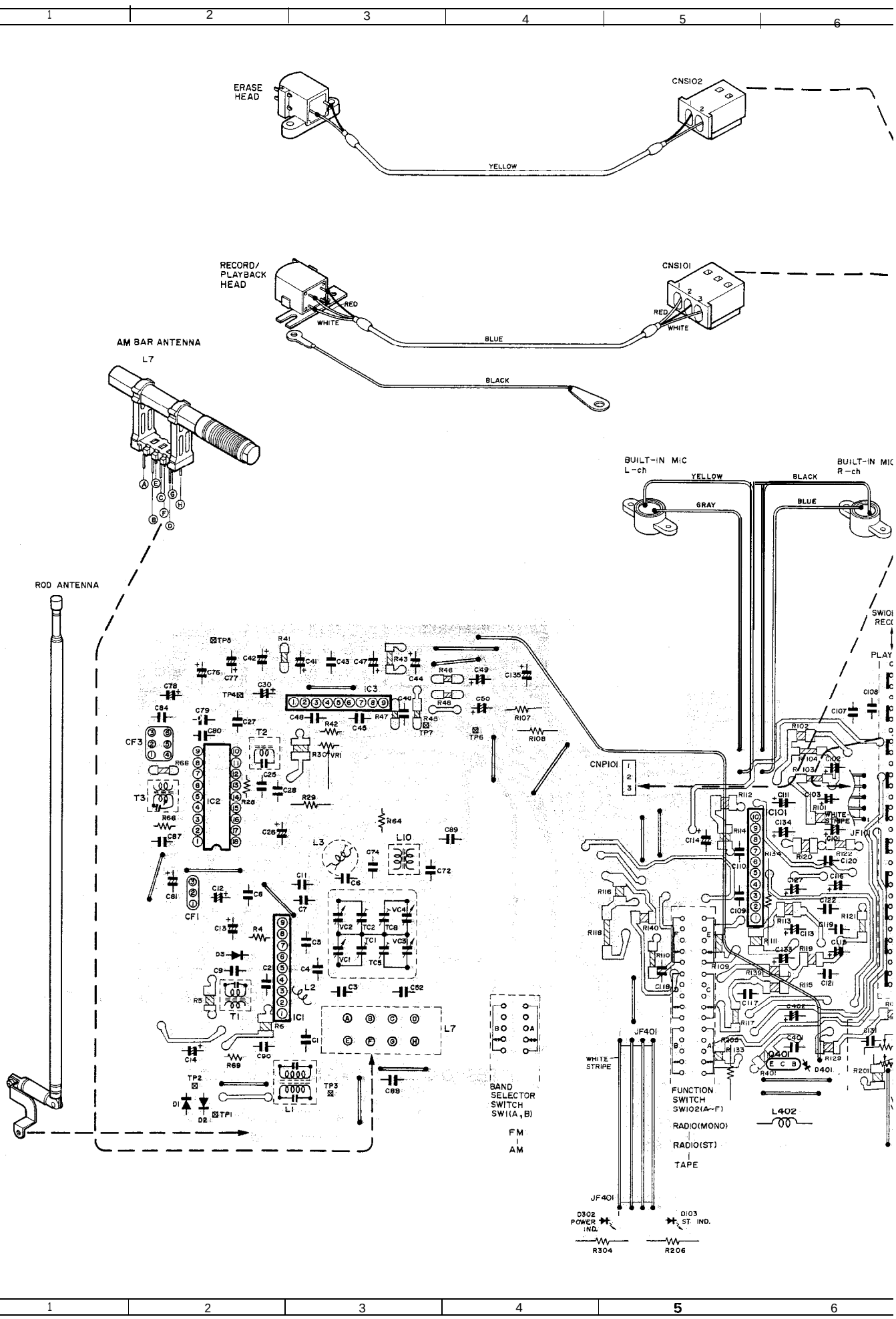
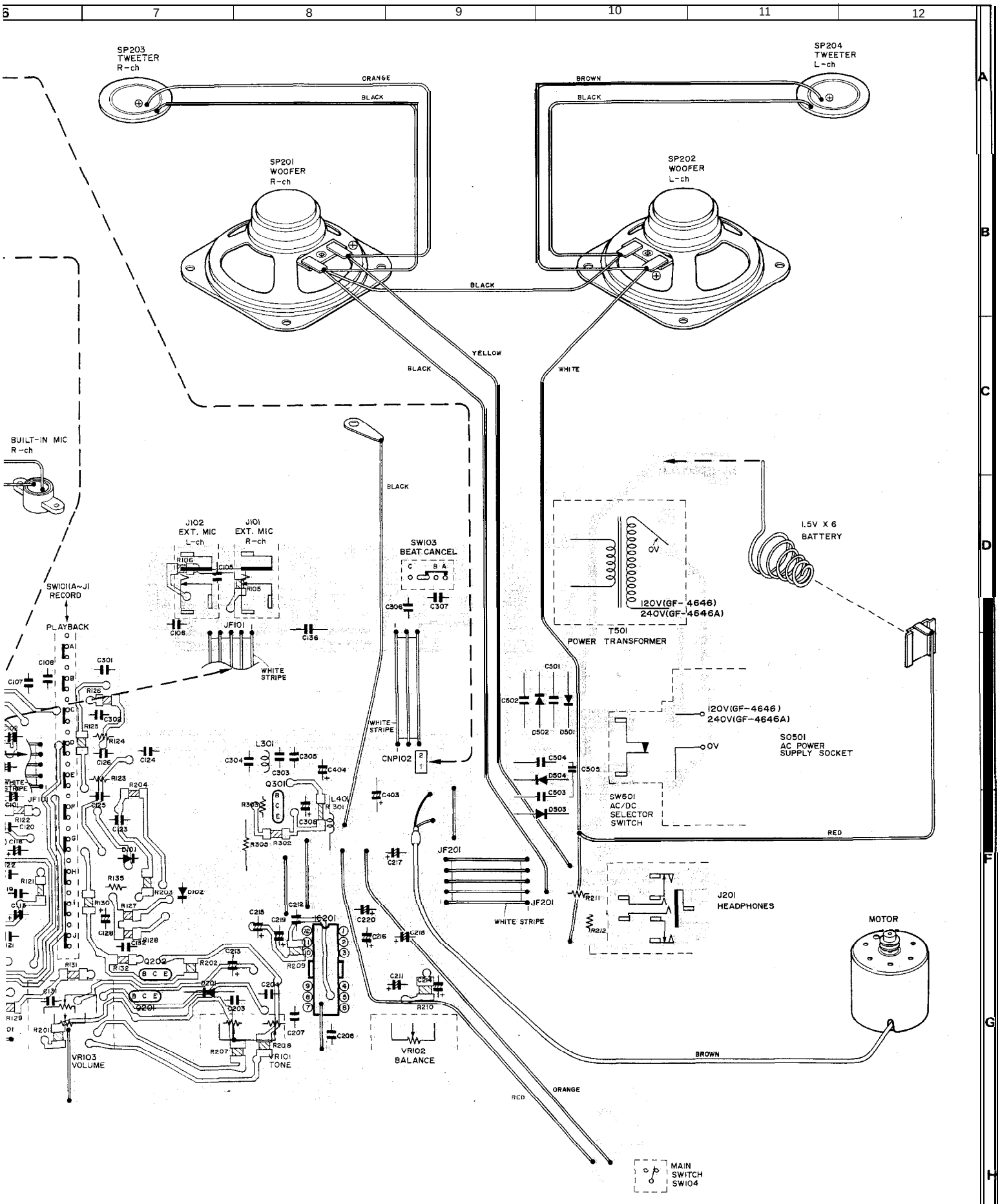
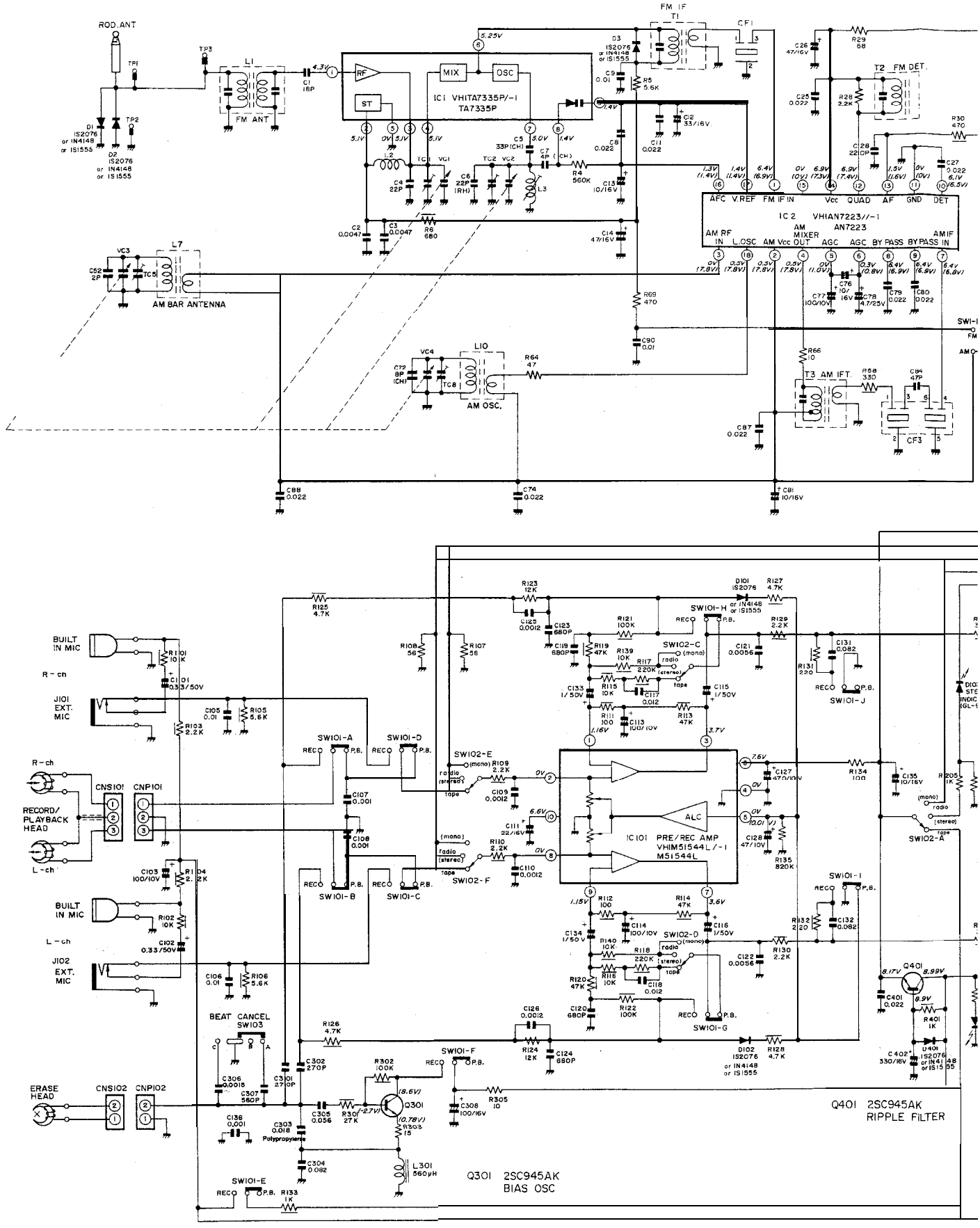


Figure 7 WIRING

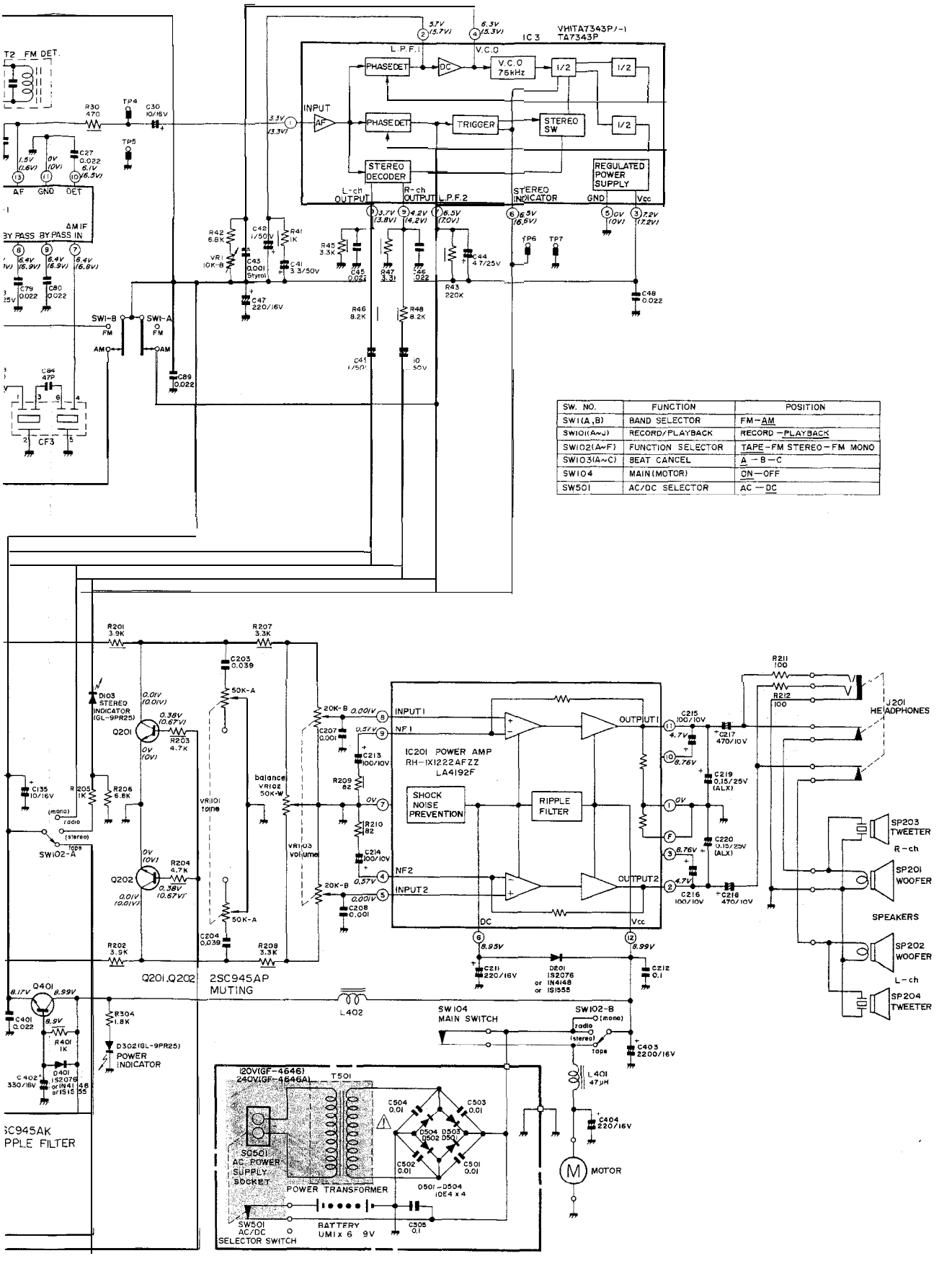


WIRING SIDE OF P.W. BOARD



(Specifications or wiring diagrams of this model are subject to change for improvement without prior notice.)

Figure 9 SCHEMATIC DIAB



SW. NO.	FUNCTION	POSITION
SW1(A,B)	BAND SELECTOR	FM—AM
SW101(A~J)	RECORD/PLAYBACK	RECORD—PLAYBACK
SW102(A~F)	FUNCTION SELECTOR	TAPE—FM STEREO—FM MONO
SW103(A~C)	BEAT CANCEL	A—B—C
SW104	MAIN(MOTOR)	ON—OFF
SW501	AC/DC SELECTOR	AC—DC

IATIC DIABRAM

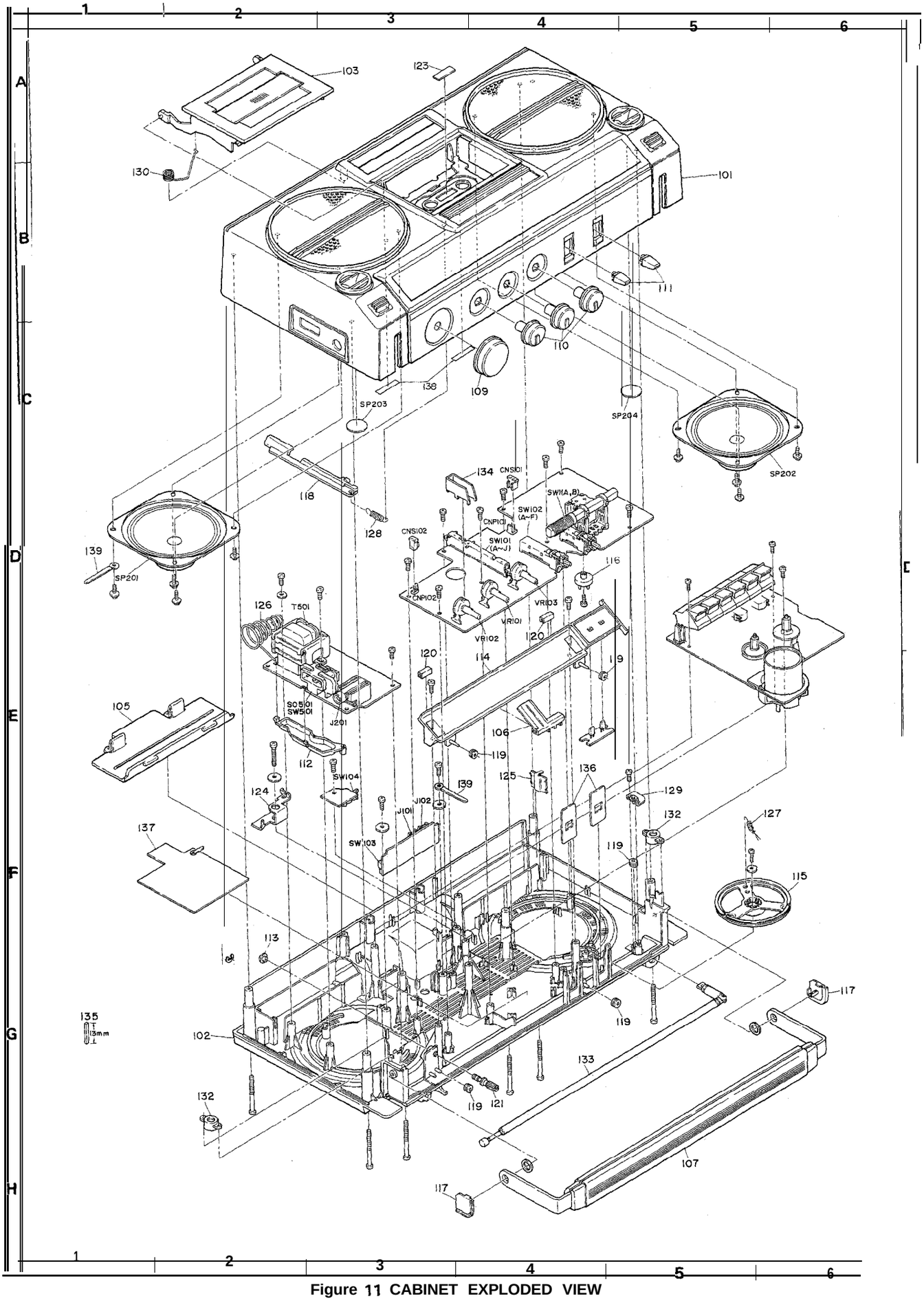
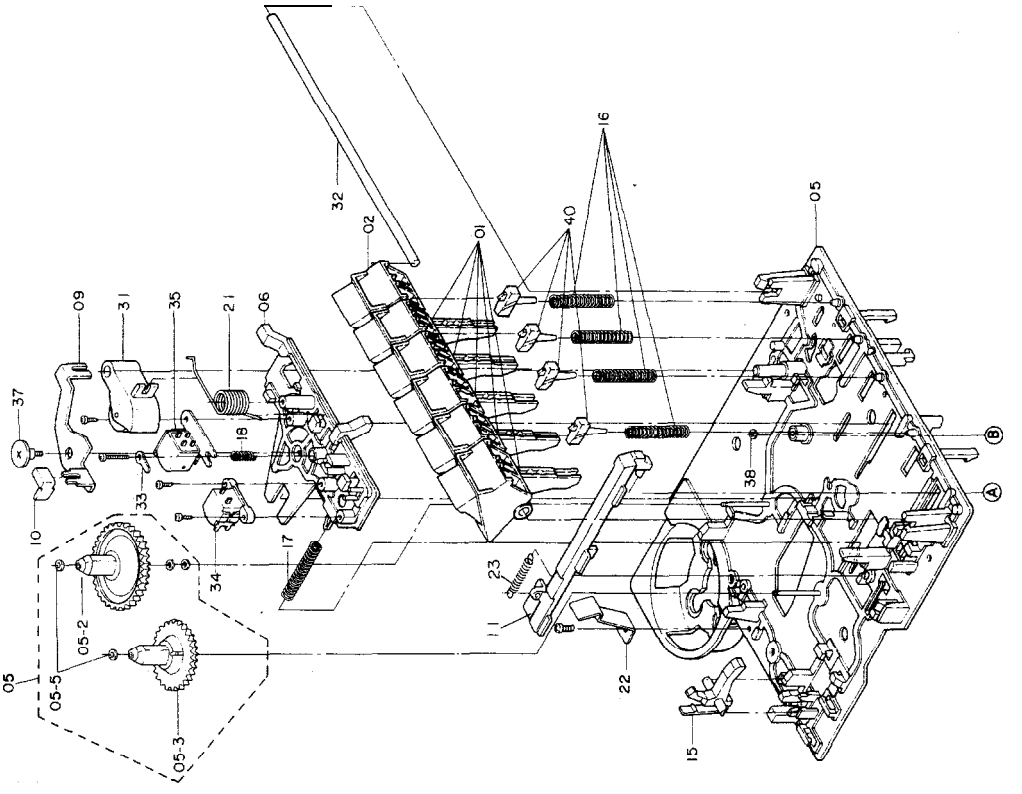
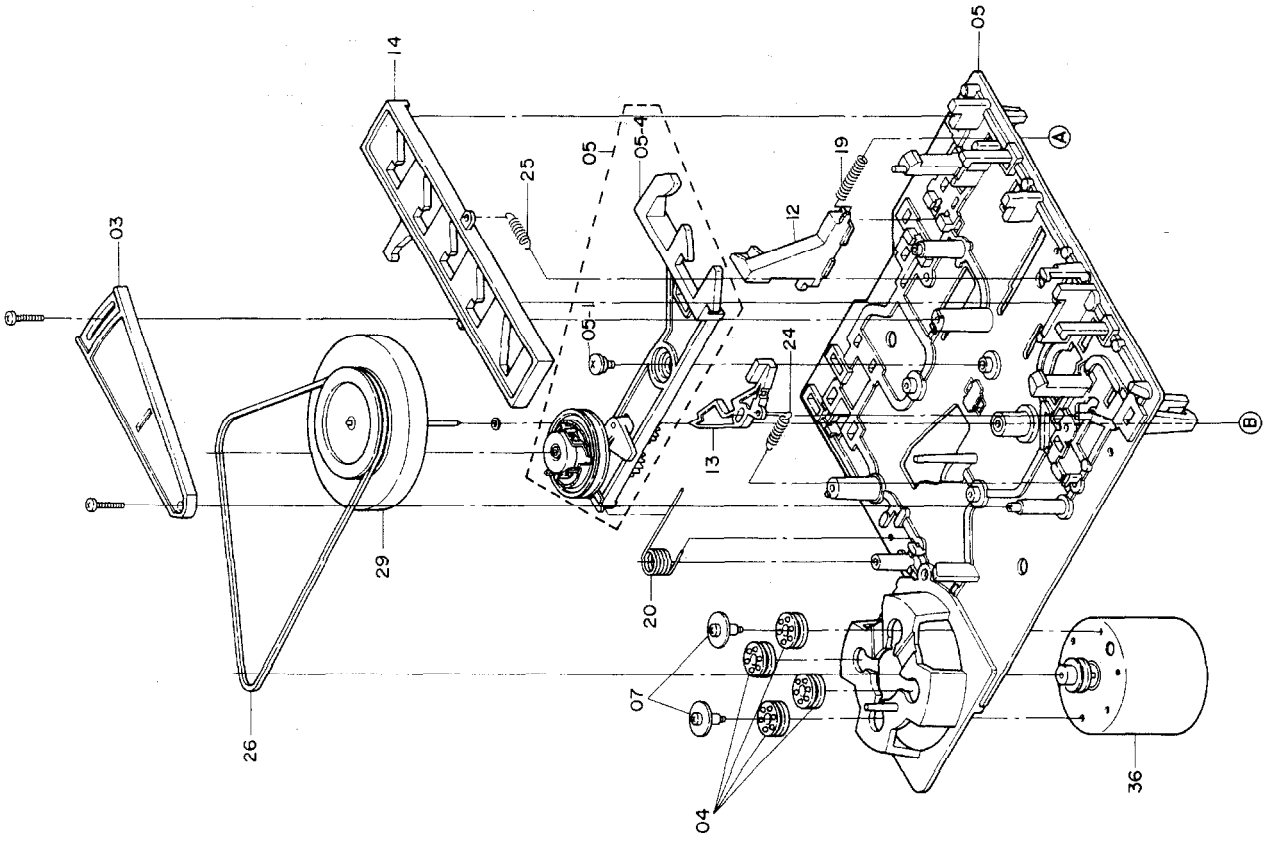


Figure 11 CABINET EXPLODED VIEW



TOP VIEW



BOTTOM VIEW

Figure 12 MECHANISM EXPLODED VIEW

REPLACEMENT PARTS LIST

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION

NOTES: Parts marked with "⚠" are important for maintaining the safety of the set, Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO.	PART NO.	DESCRIPTION	CODE
INTEGRATED CIRCUITS			
IC1	VHITA7335P/-1	FM Front End (TA7335P)	AG
IC2	VHIAN7223//-1	FM IF/AM (Mixer, Oscillator, IF)(AN7223)	AK
IC3	VHITA7343P/-1	FM Multiplex (TA7343P)	AG
IC101	VHIM51544L/-1	Pre/Record Amp. (M51544L)	AG
IC201	VHILA4192//-1	Power Amp. (LA4192)	AK
TRANSISTORS			
Q201	VS2SC945AP/-1	Muting (2SC945AP)	AB
Q202	VS2SC945AP/-1	Muting (2SC945AP)	
Q301	VS2SC945AK/-1	Bias Oscillator (2SC945AK)	
Q401	VS2SC945AK/-1	Ripple Filter (2SC945AK)	
DIODES			
D1, 2	92L1N4148FV	Static Protector (1N4148)	AB
D3	92L1N4148FV	FM Overload (1N4148)	
D101, 102	92L1N4148FV	ALC (1N4148)	
D103	RH-PX1029AFZZ	LED, Stereo Indicator (GL-9PR25)	AC
D201	92L1N4148FV	Stabilizer for AC Mode (1N4148)	AB
D302	RH-PX1029AFZZ	LED, Power Indicator (GL-9PR25)	AC
D401	92L1N4148FV	Noise Suppresser (1N4148)	AB
D501, 502, D503, 504	VHD10E-4///-1	Rectifier (10E4)	AB
COILS			
L1	RCILA0455AFZZ	FM Antenna	AC
L2	RCILR0364AFZZ	FM RF	AA
L3	RCILB0628AFZZ	FM Oscillator	AC
L7	92LCOI LA-200A	AM Bar Antenna	
L10	RCILB0626AFZZ	AM Oscillator	
L301	VP-CH561KOOOO	Bias Oscillator, 560μH	AC
L401	VP-CH470K0000	Noise Suppresser, 47μH	AB
L402	92LCOILC-197B	Noise Suppresser	
TRANSFORMERS			
T1	RCILI0157AFZZ	FM IF	AC
T2	RCILI0312AFZZ	FM Detector	
T3	RCILI0310AFZZ	AM IF	
⚠T501	92LPT-201A	Power (GF-4646)	
	92LPT-199A	Power (GF-4646A)	

REF. NO.	PART NO.	DESCRIPTION	CODE
FILTERS			
CF1	RFILF0080AFZZ	Ceramic, FM IF, 10.7MHz	AD
CF3	RFILA0074AFZZ	Ceramic, AM IF, 455kHz	AG
CONTROLS			
VC1, 2, VC3, 4, TC1.2, TC5, 8	RVC-R0085AFZZ	Variable Capacitors Tuning with Trimmers TC1; FM RF Trimmer TC2; FM Oscillation Trimmer TC5; AM Antenna Trimmer TC8; AM Oscillation Trimmer	AN
VR1	RVR-M0216AFZZ	10K ohm (B), V.C.O. Adjust	AB
VR101	92LVR-197A	50K ohm (A), Tone Control	
VR102	92LVR-197B	50K ohm (W), Balance Control	
VR103	92LVR-197C	20K ohm (B), Volume Control	
ELECTROLYTIC CAPACITORS			
(Unless otherwise specified capacitors are ±20% type.)			
C12	RC-EZV336AF1C	33MFD, 16V	AB
C13	RC-EZV106AF1C	IOMFD, 16V	
C14	RC-EZV476AF1C	47MFD, 16V	
C26	RC-EZV476AF1C	47MFD, 16V	
C30	RC-EZV106AF1C	10MFD, 16V	
C41	RC-EZV335AF1H	3.3MFD, 50V	
C42	RC-EZV105AF1H	1MFD, 50V	
c44	RC-EZV475AF1E	4.7MFD, 25V	
c47	RC-EZV227AF1C	220MFD, 16V	
C49, 50	RC-EZV105AF1H	1MFD, 50V	
C76	RC-EZV106AF1C	10MFD, 16V	
c77	RC-EZV107AF1A	100MFD, 10V	
C78	RC-EZV475AF1E	4.7MFD, 25V	
C81	RC-EZV106AF1C	10MFD, 16V	
C101, 102	VCEALA1HW334M	0.33MFD, 50V	
C103	RC-EZV107AF1A	100MFD, 10V	
C111	RC-EZV226AF1C	22MFD, 16V	
Cl 13, 114	RC-EZV107AF1A	100MFD, 10V	
C115, 116	RC-EZV105AF1H	1MFD, 50V	
Cl27	RC-EZV477AF1A	470MFD, 10V	AC
Cl28	RC-EZV476AF1A	47MFD, 10V	AB
C133, 134	RC-EZV105AF1H	1MFD, 50V	
C135	RC-EZV106AF1C	10MFD, 16V	
C211	RC-EZV227AF1C	220MFD, 16V	
C213, 214, C215, 216	RC-EZV107AF1A	100MFD, 10V	
C217, 218	RC-EZV477AF1A	470MFD, 10V	AC
C219, 220	RC-AZ1001AFZZ	0.15MFD, 25V	AO

REF. NO.	PART NO.	DESCRIPTION	CODE
C308	RC-EZV107AF1C	100MFD, 16V	A8
C402	RC-EZV337AF1C	330MFD, 16V	AC
C403	VCEAAU1CW228Y	2200MFD, 16V, +50 -20%	AF
C404	RC-EZV227AF1C	220MFD, 16V	A8

CAPACITORS

CI	VCCSPU1HL180J	18PF, 50V, ±5%, Ceramic	AA
C2, 3	VCKZPU1HB472K	0.0047MFD, 50V, ±10%, Ceramic	
C4	VCCSPU1HL220J	22PF, 50V, ±5%, Ceramic	
C5	VCCCPU1HH330J	33PF (CH), 50V, ±5%, Ceramic	AB
C6	VCCRPU1HH220J	22PF (RH), 50V, ±5%, Ceramic	
C7	VCCCPU1HH4R0C	4 P F (CH), 50V, ±0.25PF, Ceramic	
C8	VCKZPU1HF223Z	0.022MFD, 50V, +80–20%, Ceramic	AA
C9	VCTYPU1EX103M	0.01MFD, 25V, ±20%, Semiconductor	
C11	VCTYPU1EX223M	0.022MFD, 25V, ±20%, Semiconductor	AB
C25	VCTYPU1EX223M	0.022MFD, 25V, ±20%, Semiconductor	A8
C27	VCKZPU1HF223Z	0.022MFD, 50V, +80–20%, Ceramic	AA
C28	VCCSPU1HL221J	220PF, 50V, ±5%, Ceramic	AA
c43	VCQSMV1HL102J	0.001MFD, 50V, ±5%, Styrol	AB
C45, 46, C48	VCTYPU1EX223M	0.022MFD, 25V, ±20%, Semiconductor	AB
C52	VCCSPU1HL2R0C	2PF, 50V, 0.25PF, Ceramic	
C72	VCCCPU1HH8R0C	8PF (CH), 50V, 0.25PF, Ceramic	
c74	VCTYPU1EX223M	0.022MFD, 25V, ±20%, Semiconductor	AB
C79, 80	VCTYPU1EX223M	0.022MFD, 25V, ±20%, Semiconductor	AB
C84	VCCSPU1HL470J	47PF, 50V, ±5%, Ceramic	AA
C87, 88	VCKZPU1HF223Z	0.022MFD, 50V, +80–20%, Ceramic	AA
C89	VCKZPU1HB223M	0.022MFD, 50V, ±20%, Ceramic	AB
C90	VCKZPU1HF103Z	0.01 MFD, 50V, +80–20%, Ceramic	
C105, 106	VCTYPU1EX103K	0.01MFD, 25V, ±10%, Semiconductor	
C107, 108	VCTYPU1EX102K	0.001MFD, 25V, ±10%, Semiconductor	
C109, 110	VCTYPU1EX122K	0.0012MFD, 25V, ±10%, Semiconductor	
C117, 118	VCTYPU1EX123K	0.012MFD, 25V, ±10%, Semiconductor	AA
CI 19,120	VCKZPU1HB681K	680PF, 50V, ±10%, Ceramic	
C121, 122	VCTYPU1EX562K	0.0056MFD, 25V, ±10%, Semiconductor	
C123, 124	VCKZPU1HB681K	680PF, 50V, ±10%, Ceramic	
C125, 126	VCTYPU1EX122K	0.0012MFD, 25V, ±10%, Semiconductor	
C131, 132	VCTYPU1EX823K	0.082MFD, 25V, ±10%, Semiconductor	AB
CI36	VCKZPU1HF102Z	0.001MFD, 50V, +80–20%, Ceramic	AA
C203, 204	VCTYPU1EX393K	0.039MFD, 25V, ±10%, Semiconductor	AA
C207, 208	VCTYPU1EX102K	0.001MFD, 25V, ±10%, Semiconductor	AA
c212	VCTYPU1EX104M	0.1MFD, 25V, ±20%, Semiconductor	AB
C301, 302	VCKZPU1HB271K	270PF, 50V, ±10%, Ceramic	
C303	VCQPKV2AA183J	0.018MFD, 100V, ±5%, Polypropylene	AB
C304	VCTYPU1EX823K	0.082MFD, 25V, ±10%, Semiconductor	AB
C305	VCTYPU1EX563K	0.056MFD, 25V, ±10%, Semiconductor	AB
C306	VCTYPU1EX152K	0.0015MFD, 25V, ±10%, Semiconductor	AA
C307	VCKZPU1HB561K	560PF, 50V, ±10%, Ceramic	AA
C401	VCTYPU1EX223M	0.022MFD, 25V, ±20%, Semiconductor	AB
C501, 502, C503, 504	VCKZPU1HF103Z	0.01MFD, 50V, +80–20%, Ceramic	AA
C505	VCKZPU1HF104Z	0.1MFD, 50V, +80 -20% Ceramic	

RESISTORS

(All resistors are 1/4W, ±5%, Carbon type.)

R4	VRD-SU2EE564J	560K ohm
R28	VRD-SU2EE222J	2.2K ohm
R29	VRD-SU2EE680J	68 ohm
R42	VRD-SU2EE682J	6.8K ohm
R64	VRD-SU2EE470J	47 ohm
R66	VRD-SU2EE100J	10 ohm
R69	VRD-SU2EE471J	470 ohm
R107, 108	VRD-SU2EE560J	56 ohm
R123, 124	VRD-SU2EE123J	12K ohm
R134	VRD-ST2EE101J	100 ohm
R135	VRD-SU2EE824J	820K ohm
R205	VRD-ST2EE102J	1K ohm
R 206	VRD-ST2EE682J	6.8K ohm
R211, 212	VRD-SU2EE101J	100 ohm
R303	VRD-SU2EE150J	15 ohm
R304	VRD-ST2EE182J	1.8K ohm
R305	VRD-ST2EE100J	10 ohm

MECHANISM PARTS

01	92LM-BUTON185A	Button, Function	
02	92LM-BUTON185B	Button, Eject	
03	92LM-SUPT152A	Bracket, Flywheel	AC
04	92LCUSN 113A	Cushion Rubber, Motor	
05	92LM-C-ASY152A	Mechanism Chassis Assembly	
05-1	LX-BZ0321 AFFD	Screw, Slip Roller Assembly Retaining	AA
05-2	NDAIR0125AFSA	Turntable, Take-up	AC
05-3	NDAIR0162AFZZ	Turntable, Supply	
05-4	NROLW0016AFZZ	Slip Roller Assembly	AK
05-5	LX-WZ9064AFZZ	Washer, 1.2mm Dia. x 3.3mm Dia. x 0.5mm	AA
06	92LM-S-CHS152A	Sub-chassis	
07	92LS2R6S025A	Screw, Motor Retaining	
09	92LM-LEV152F	Lever, Tape Contact	AB
10	92LMC-SPAC025B	Contact, Tape	
11	92LM-LEV152A	Lever, Record Action	AC
12	92LM-LEV185A	Lever, Switch Action	
13	92LM-LEV152C	Lever, Auto Stop	AB
14	92LM-LEV152D	Lock Plate, Function Key	AD
15	92LM-LEV152E	Lever, Erase Prevention	AB
16	92LM-CSPR152D	Spring, Function Key	AA
17	92LM -CSPR152E	Spring, Sub-chassis Returning	AA
18	92LM-CSPR152F	Spring, Head Azimuth	AB
19	92LM-CSPR185A	Spring, Switch Action Lever	
20	92LM-CSPR152I	Spring, Slip Roller	AA
21	92LM-CSPR152H	Spring, Pressure Roller	AB

REF. NO.	PART NO.	DESCRIPTION	CODE
22	92LM-FSPR185A	Plate Spring, Cassette Retaining	
23	92LM-CSPR152A	Spring, Record Key	AB
24	92LM-CSPR152B	Spring, Auto Stop Lever	
25	92LM-CSPR152C	Spring, Function Key Release Lever	AA
26	92LBELT152A	Drive Belt	
29	92LM-FWHEL152A	Flywheel	AM
31	92LM-P-ROL152A	Pressure Roller Assembly	AQ
32	92LM-SHAFT152B	Shaft, Function Key	AC
33	QHWS-2222AGFN	Lug	AA
34	92LM-ER-HD197A	Head, Erase	
35	92LM-RP-HD197A	Head, Record/Playback	
36	92LM-MOTOR197A	Motor, DC	
37	92LS2R6S152A	Screw, Tape Contact Lever	AB
38	92LIR9W5-R5N	Washer, Capstan Oil Cut	
40	92LM-CHIP185A	Guide, Spring	

MISCELLANEOUS

101	92LCAB200FRTSI	Front Cabinet with Dial Scale Plate	
102	92LCAB201B	Back Cabinet (GF-4646)	
	92LCAB200B	Back Cabinet (GF-4646A)	
103	92LCT-HOLD197A	Cassette Holder	
105	92LLID197A	Lid, Battery Compartment	
106	92LPINT197A	Dial, Pointer	
107	92LMEC197HNL01	Handle	
109	92LKNOB185A	Knob, Tuning Control	
110	92LKNOB197A	Knob, Tone Control/ Volume Control	
111	92LKNOB197B	Knob, Function Selector/ Band Selector	
112	92LCOV201A	Cover, Power Transformer	
113	92LSPAC197A	Spacer, Tuning Shaft	
114	92LDIAL-P197A	Frame	
115	92LWHE L197A	Wheel, Dial Cord	
116	92LBOS197A	Boss, Drum Joint	
117	92LSPAC 197B	Spacer, Handle	
118	92LEV185B	Lever, Eject	
119	92LROLL009	Pulley, Dial Cord	AB
120	92LFELT197A	Felt	
121	92LSHAFT136A	Shaft, Tuning	
123	92LMIRR185A	Mirror, Cassette Compartment	
124	92LLEV197A	Lever, Record Joint	
125	92LBTML113A	Terminal, Battery	AB
126	92LBSPR197A	Spring, Battery	
127	92LCSPR035	Spring, Dial Cord	
128	92LM-CSPR152C	Spring, Eject Lever	AA
129	92LSUPT197A	Suporter, Rod Antenna Joint	
130	92LCSPR197A	Spring, Cassette Holder Opening	
132	92LIN-MIC-197A	Built-in Microphone	
133	QANTR0114AFZZ	Telescopic Rod Antenna	AM
134	92L RDAT199A	Heat Sink	
135	QLUGP0111CEFW	Lug, Terminal	AA
'I36	92LSPAC 197C	Spacer, Switch Knob	
137	92LSH LD1 97A	Shield Plate	
138	92LCUSN197A	Cushion	
139	LHLDW9003CEZZ	Wire Holder	AA
CNP101	QCNCM136CAFZZ	Plug, 3 pin	AB
CNP102	QCNCM095BAFZZ	Plug, 2 pin	AB
CNS101	QCNW-1493AFZZ	Socket, 3 pin with Wire Leads	AE
CNS102	QCNW-1494AFZZ	Socket, 2 pin with Wire Leads	AE
	92LCONE-200A	Jumper, 5 Leads, 150 mm	
	92LCONE-199A	Jumper, 3 Leads, 60 mm	
	92LCONE-197C	Jumper, 4 Leads, 105 mm	
	92LCONE-197D	Jumper, 5 Leads, 90 mm	
J101	92LJACK-197A	Jack, External Microphone (R-ch)	
J102	92LJACK-197A	Jack, External Microphone (L-ch)	
J201	92LJACK-197B	Jack, Headphones	
SO501 SW501	92LSOK-200A	Socket, AC Power Supply with AC/DC Selector Switch (SW501)	
SP201, 202	92LSP-197A	Woofer, 3.2 ohm	
SP203, 204	RALMB0057AFZZ	Tweeter	AC
SW1 (A, B)	92LSWICH-200A	Switch, Band Selector	AM
SW101 (A ~ J)	92LSWICH-197B	Switch, Record/Playback	
SW102 (A ~ F)	92LSWICH-197C	Switch, Function Selector	
SW103 (A, B, C)	QSW-S0267AFZZ	Switch, Beat Cancel	AD
SW104	QSW-F0158AFZZ	Switch, Main	AE
⚠	QACCD0051 AFOO	AC Power Supply Cord (GF-4646)	
⚠	QACCL0050AF00	AC Power Supply Cord (GF-4646A)	
	92LP-CASE201A	Packing Case (GF-4646)	
	92LP-CASE200A	Packing Case (GF-4646A)	
	92LP-AD197A	Packing Add.	
	92LBAG197A	Polyethylene Bag, Unit	
	92LBAG117A	Polyethylene Bag, Operation Manual	
	92LG-CARD004	Guarantee Card (GF-4646A)	
	92LINST201A	Operation Manual (GF-4646)	
	92LINST200A	Operation Manual (GF-4646A)	
	92LCAUT122A	Safety Caution (GF-4646)	
	92LS-LIST004B	SS List (GF-4646A)	

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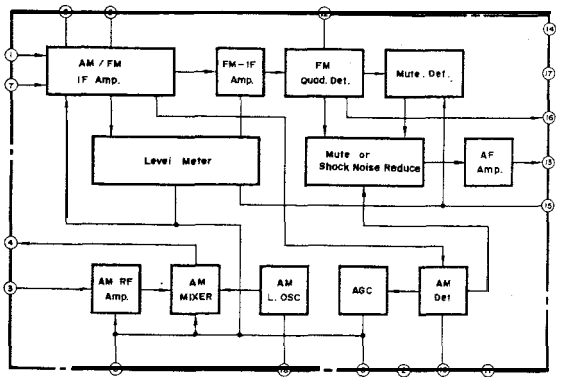

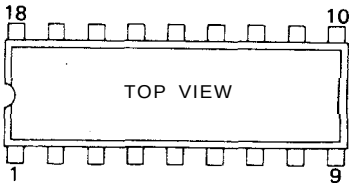

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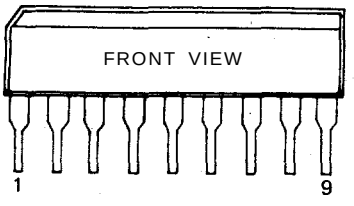

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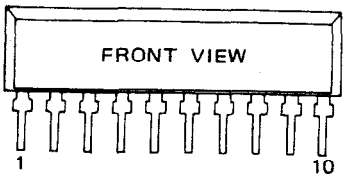

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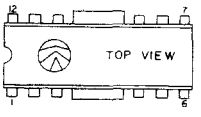

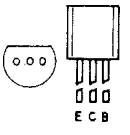

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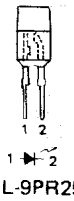
C: COLLECTOR
B: BASE



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