

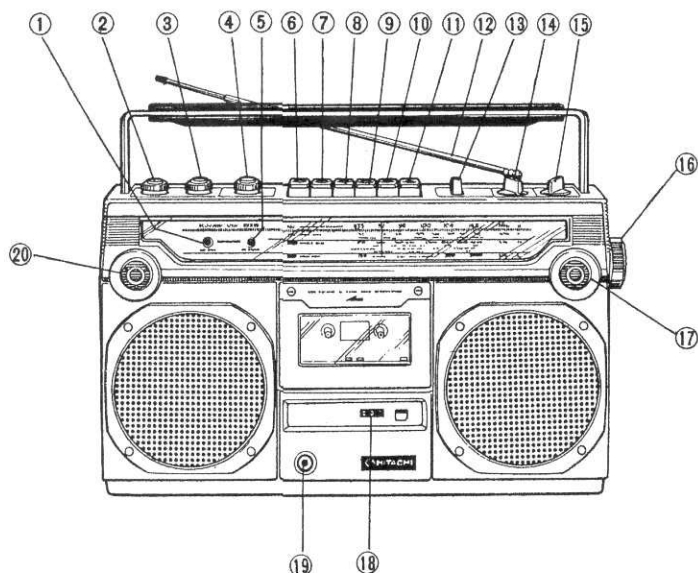


HITACHI

TRK-8000W

SERVICE MANUAL

No. 1163



KEY TO ILLUSTRATIONS

- ① REC/BATTERY INDICATOR
- ② VOLUME CONTROL (L)
- ③ VOLUME CONTROL (R)
- ④ TONE CONTROL
- ⑤ FM STEREO INDICATOR
- ⑥ PAUSE BUTTON
- ⑦ FAST FORWARD/CUE BUTTON
- ⑧ REWIND/REVIEW BUTTON
- ⑨ PLAYBACK BUTTON
- ⑩ RECORD BUTTON
- ⑪ STOP/EJECT BUTTON
- ⑫ TELESCOPIC ANTENNA (AERIAL)
- ⑬ MODE SWITCH
- ⑭ FUNCTION SELECTOR
- ⑮ BAND SELECTOR
- ⑯ TUNING CONTROL
- ⑰ BUILT-IN MICROPHONE (RIGHT)
- ⑱ TAPE COUNTER
- ⑲ HEADPHONE SOCKET
- ⑳ BUILT-IN MICROPHONE (LEFT)

SPECIFICATIONS

GENERAL SECTION

Semi-conductors : IC's : 8
Transistors : 11
Diodes : 11
LED : 2

Power (Mains) Supply : AC 100 to 110V, 115 to 127V,
200 to 220V, 230 to 250V
50/60 Hz
DC : 9V (IEC R20×6 or equivalent)

Power (Mains) Consumption : 15W

Dimensions : 250(H)×428(W)×128(D)mm

Weight : 4.0kg (with batteries)

Power output : 2.0W/CH (T.H.D. 10%)

Speaker : 100mm 3.2 ohms×2

TUNER SECTION

Circuit System : FM/SW₂/SW₁/MW 4-band
superheterodyne

Tuning Range : FM : 88 to 108 MHz
SW₂ : 7 to 22 MHz
SW₁ : 2.3 to 7 MHz
MW : 530 to 1605 kHz

Sensitivity : FM : 10 dB (pra.) 5 dB (max.)
SW₂ : 25 dB (pra.) 18 dB (max.)
SW₁ : 45 dB (pra.) 35 dB (max.)
MW : 48 dB (pra.) 35 dB (max.)

Intermediate Frequency : FM : 10.7 MHz
SW₂/SW₁/MW : 455 kHz

Antennas (Aerials) :

FM/SW₂ : Telescopic antenna (aerial)
SW₁/MW : Built-in ferrite-core antenna
(aerial)

TAPE RECORDER

Tape : Cassette tape (C-30, 60, 90)

Tape Speed : 4.75cm/s

Recording System and Bias Frequency : AC bias, 27 kHz

Erasing System : Quasi-AC erase

Track System : 4 track 2 channel

Frequency Response : 50 to 10000 Hz

S/N (Signal to Noise Ratio) : 45 dB

Wow and Flutter : 0.15% (WRMS)

Cross Talk : 40 dB

Erase Ratio : 60 dB

Input Sensitivity and Impedance : Microphone : -55 dB, 500 ohms
LINE IN : 100mV, 50K ohms

Output Level and Impedance : LINE OUT : 650mV, 6K ohms
Headphone : 60 ohms
Speaker : 3.2 ohms

Distortion : 2%

Fast Forward or Rewinding Time : 120 sec. (Using C-60)

Motor : DC motor

CASSETTE TAPE RECORDER WITH FM/SW₂/SW₁/MW RADIO

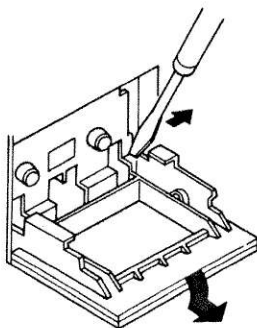
SAFETY PRECAUTION

The following precautions should be observed when servicing.

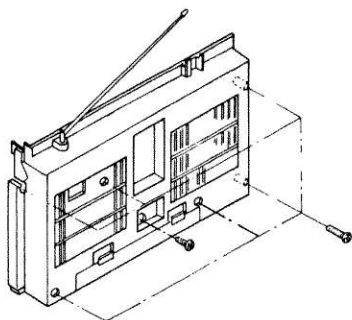
1. Since many parts in the unit have special safety related characteristics, always use genuine Hitachi's replacement parts. Especially critical parts in the power circuit block should not be replaced with other makers. Critical parts are marked with $\triangle$ in the schematic diagram and circuit board diagram.
2. Before returning a repaired unit to the customer, the service technician must thoroughly test the unit to ascertain that it is completely safe to operate without danger of electrical shock.

DISASSEMBLY

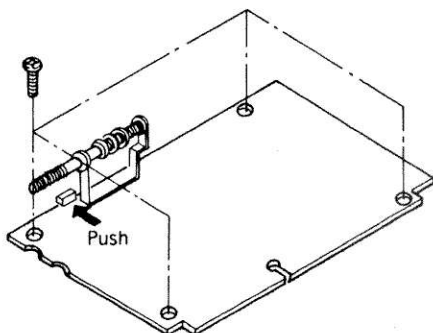
1. Cassette Lid



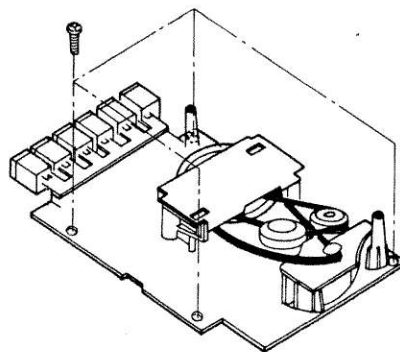
2. Rear Case



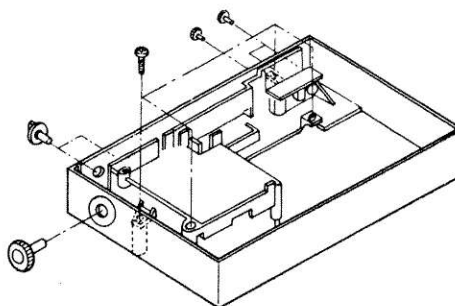
3. Main PC board



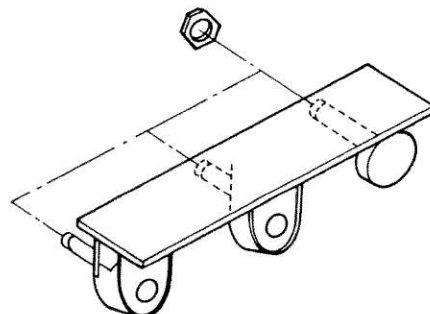
4. Cassette Chassis



5. Radio Chassis



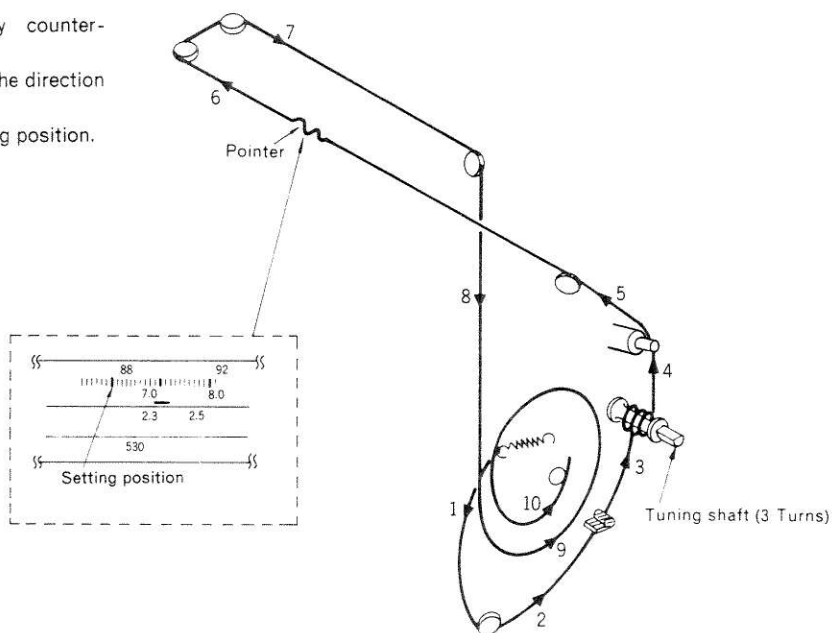
6. Tone PC board



DIAL CORD STRINGING

STRINGING METHOD

1. Turn the pulley fully counter-clockwise.
2. String the dial cord in the direction of arrow (No. (1) — (10)).
3. Set the pointer to setting position.



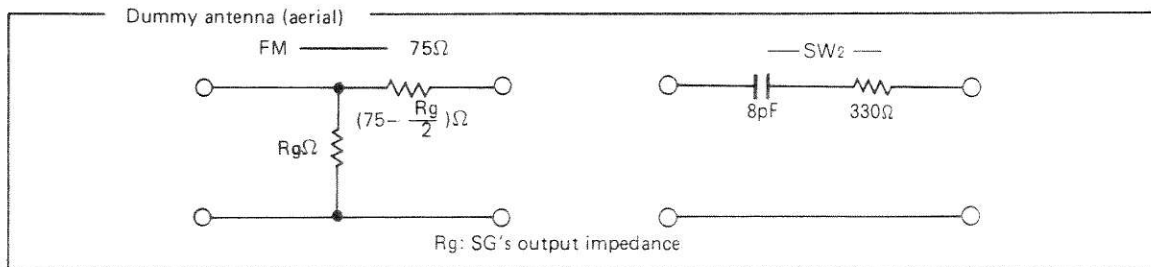
LUBRICATION

Lubricate one or two drops of machine oil to rotating point or lubricate grease to sliding point. Lubricate the respective parts listed below once every 1000 hours or once a year under normal conditions of use. Avoid oiling them excessively, or rotation may become irregular because of oil splashes.

Lubrication	Oil or grease
Motor shaft bearing	Oil
Capstan shaft bearing	
Pressure roller bearing	

ADJUSTMENT

TUNER SECTION

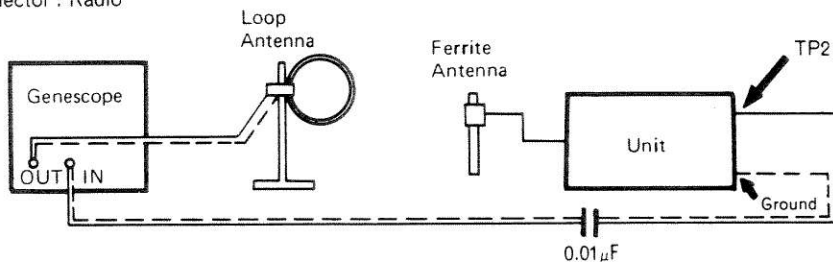


3. AM IF adjustment

Setting :

- Band selector : MW
- Function selector : Radio

Connection :



Adjustment :

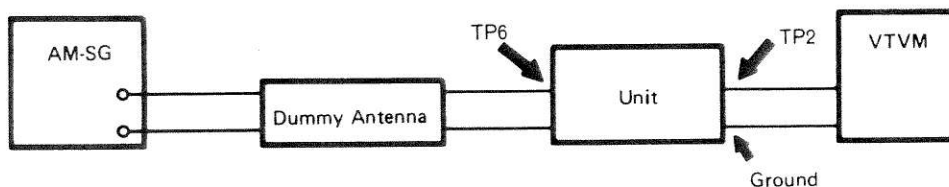
Genescope		Dial pointer position	Adjust	Reading	Remarks
Frequency	Modulation				
455 kHz	—	Highest	T201, T202, T204	Max.	—

4. SW₂ RF (Covering & Tracking) adjustment

Setting :

- Band selector : SW₂
- Function selector : Radio

Connection :



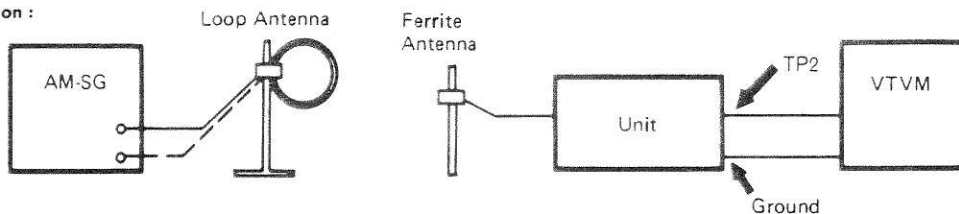
Adjustment :

Item		Signal generator		Dial pointer position	Adjust	Reading	Remarks
		Frequency	Modulation				
1	Covering	6.7 MHz	400 Hz 30%	Lowest	L156	Max.	
2		23 MHz		Highest	CT156		
3	Repeat 1 and 2.						
4	Tracking	8 MHz	400 Hz 30%	8 MHz	L153	Max.	
5		20 MHz		20 MHz	CT153		
6	Repeat 4 and 5.						

5. SW₁ / MW RF (Covering & Tracking) adjustment

Setting :

- Band selector : SW₁ or MW
- Function selector : Radio

Connection :

Adjustment :
1) SW₁

Item		Signal generator		Dial pointer position	Adjust	Reading	Remarks
		Frequency	Modulation				
1	Covering	2.2 MHz	400 Hz 30%	Lowest	L155	Max.	
2		7.3 MHz		Highest	CT155		
3	Repeat 1 and 2.						
4	Tracking	2.7 MHz	400 Hz 30%	2.7 MHz	L152	Max.	
5		6.3 MHz		6.3 MHz	CT152		
6	Repeat 4 and 5.						

2) MW

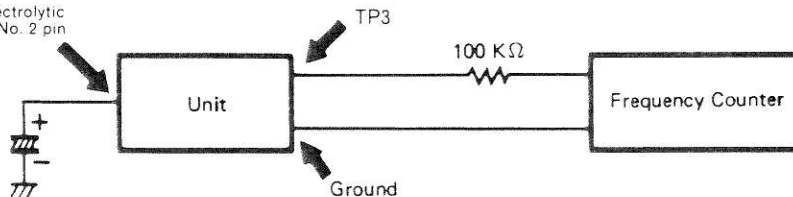
Item		Signal generator		Dial pointer position	Adjust	Reading	Remarks
		Frequency	Modulation				
1	Covering	515 kHz	400 Hz 30%	Lowest	L154	Max.	_____
2		1650 kHz		Highest	CT154		
3	Repeat 1 and 2.						
4	Tracking	600 kHz	400 Hz 30%	600 kHz	L151	Max.	
5		1400 kHz		1400 kHz	CT151		
6	Repeat 4 and 5.						

6. FM MPX (Multiplex) adjustment
Setting :

- Band selector : FM
- Mono/stereo switch : stereo
- Function selector : Radio

Connection :

Connect a 10 μ F 25V electrolytic capacitor between the No. 2 pin of IC301 and ground.


Adjustment :

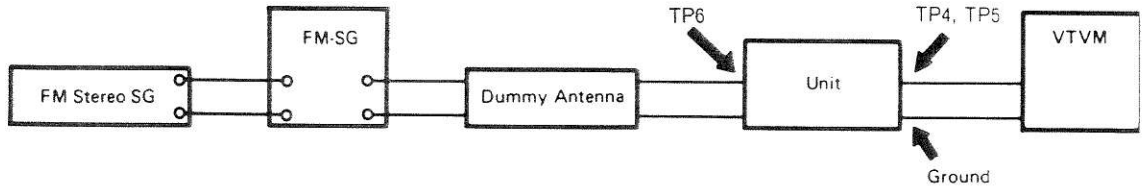
Adjust	Reading	Remarks
RT301	19 kHz $\pm$ 100 Hz	-

7. FM separation adjustment

Setting :

- Mono/stereo switch : Stereo
- Band selector : FM
- Function selector : Radio

Connection :



Adjustment :

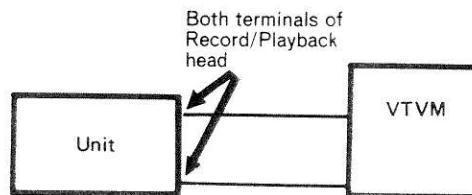
Signal generator		Dial pointer position	Adjust	Reading	Remarks
Frequency	Modulation				
98 MHz 60 dB	L + R (1 kHz) : 40 kHz dev. Pilot (19 kHz) : 6 kHz dev.	98 MHz	RT302	Min.	1) After feeding in of R channel and pilot signals, adjust RT302 for a minimum L channel output. 2) Optimize RT302 so that the leak level of the L channel signal is equal to that of the R channel signal.

TAPE DECK SECTION

1. Bias current adjustment

Setting : Recording mode

Connection :

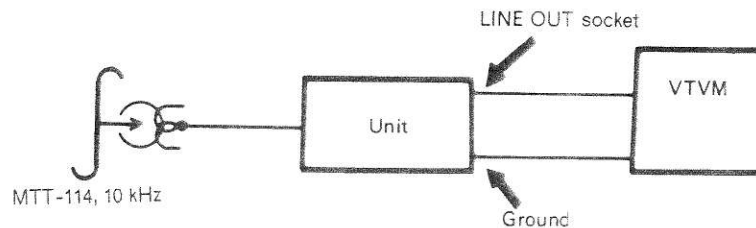


Adjustment : Set the record mode. Adjust RT401 so that the bias voltage of 8V is applied to the both terminals of Record/Playback head.

2. Head azimuth adjustment

Setting : Playback mode

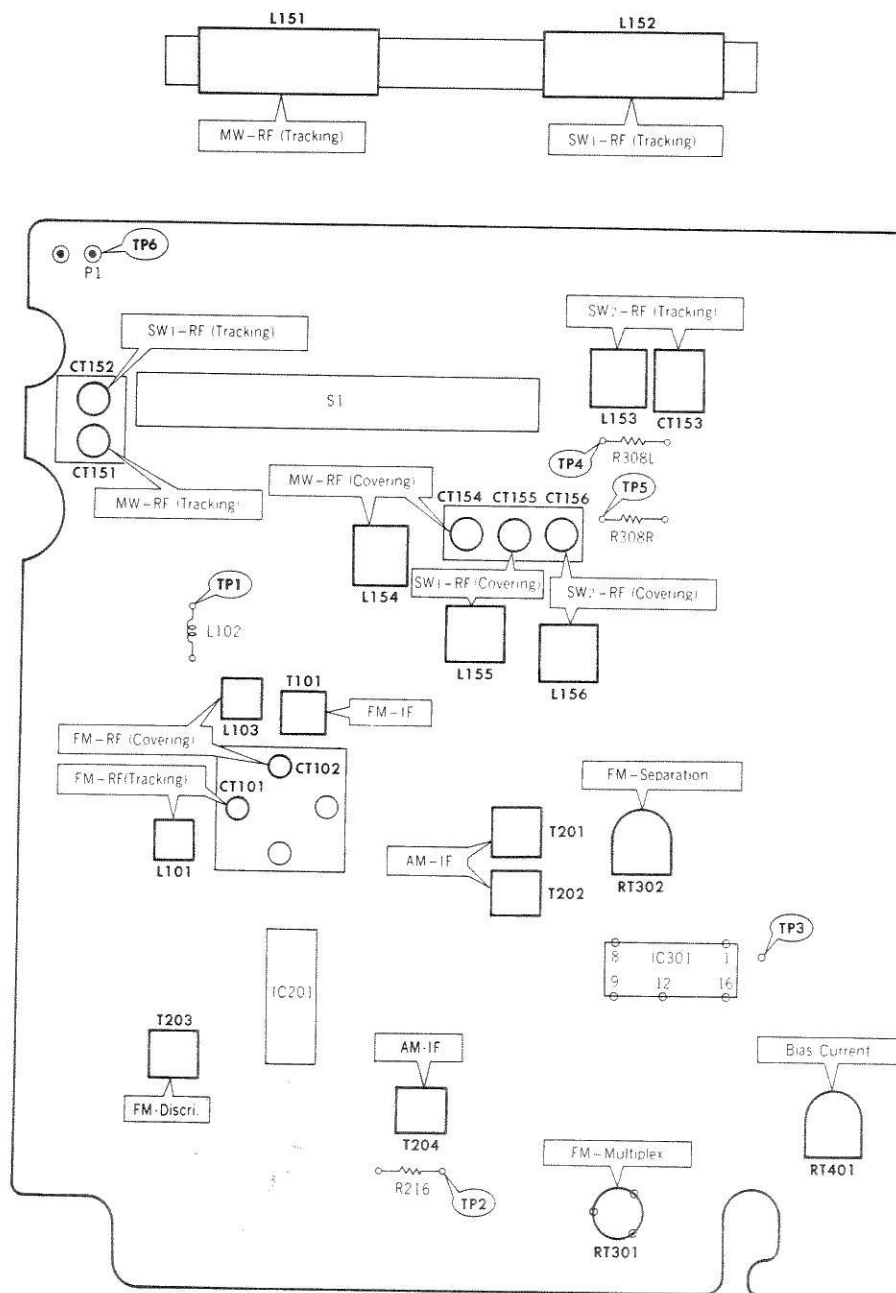
Connection :



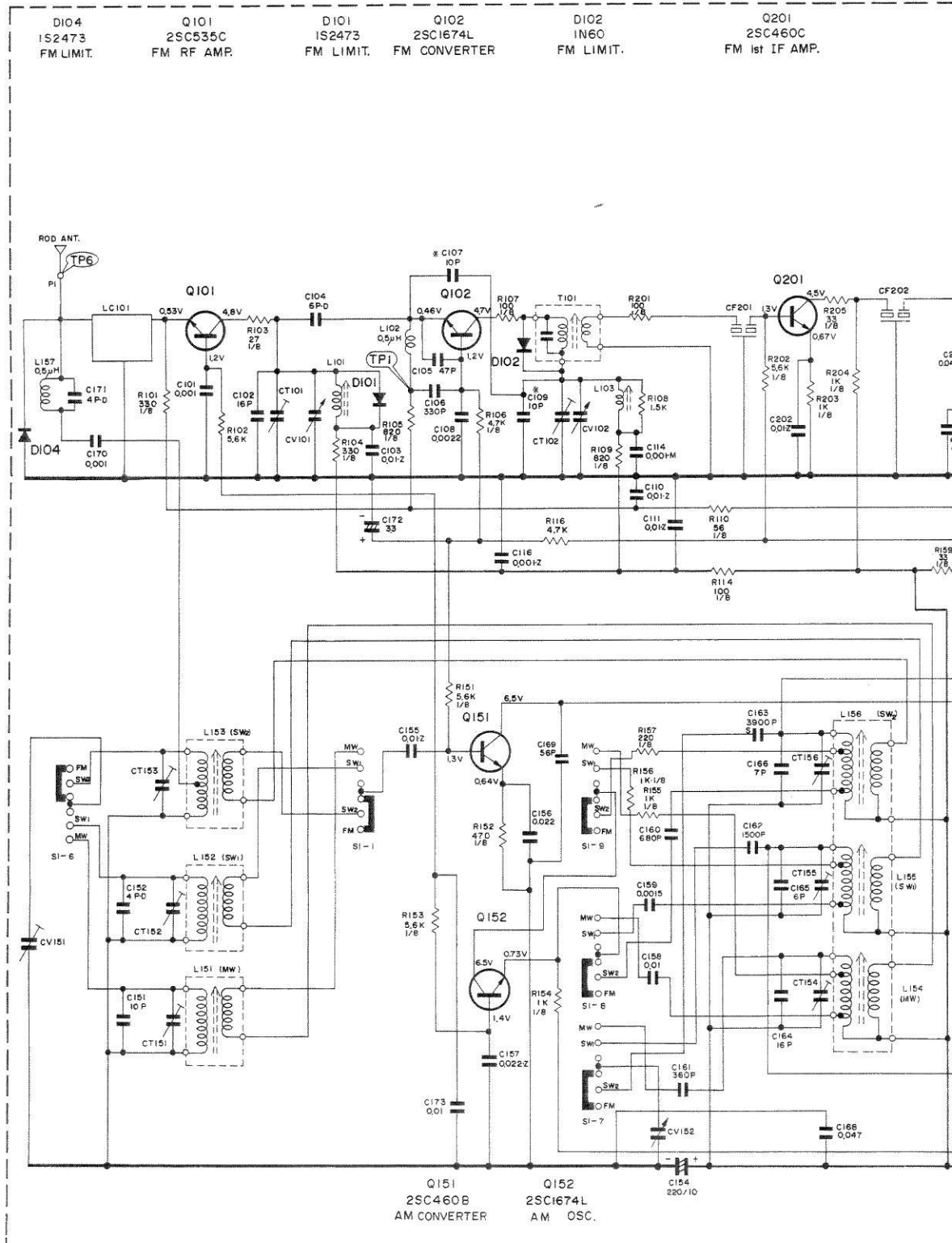
Adjustment : Playback a test tape (MTT-116L, 10kHz) and adjust the azimuth adjustment screw for maximum output.

3. Inspection of mechanism

Pressure of pressure roller :	350gr~500gr	Rewind torque :	60gr-cm~90gr-cm
Take-up torque :	35gr-cm~60gr-cm	Take-up reel back tension :	6gr-cm or less
Pressure of take-up roller :	130gr~250gr	Supply reel back tension :	1.5gr-cm~3.5gr-cm
Fast forward torque :	65gr-cm~90gr-cm		

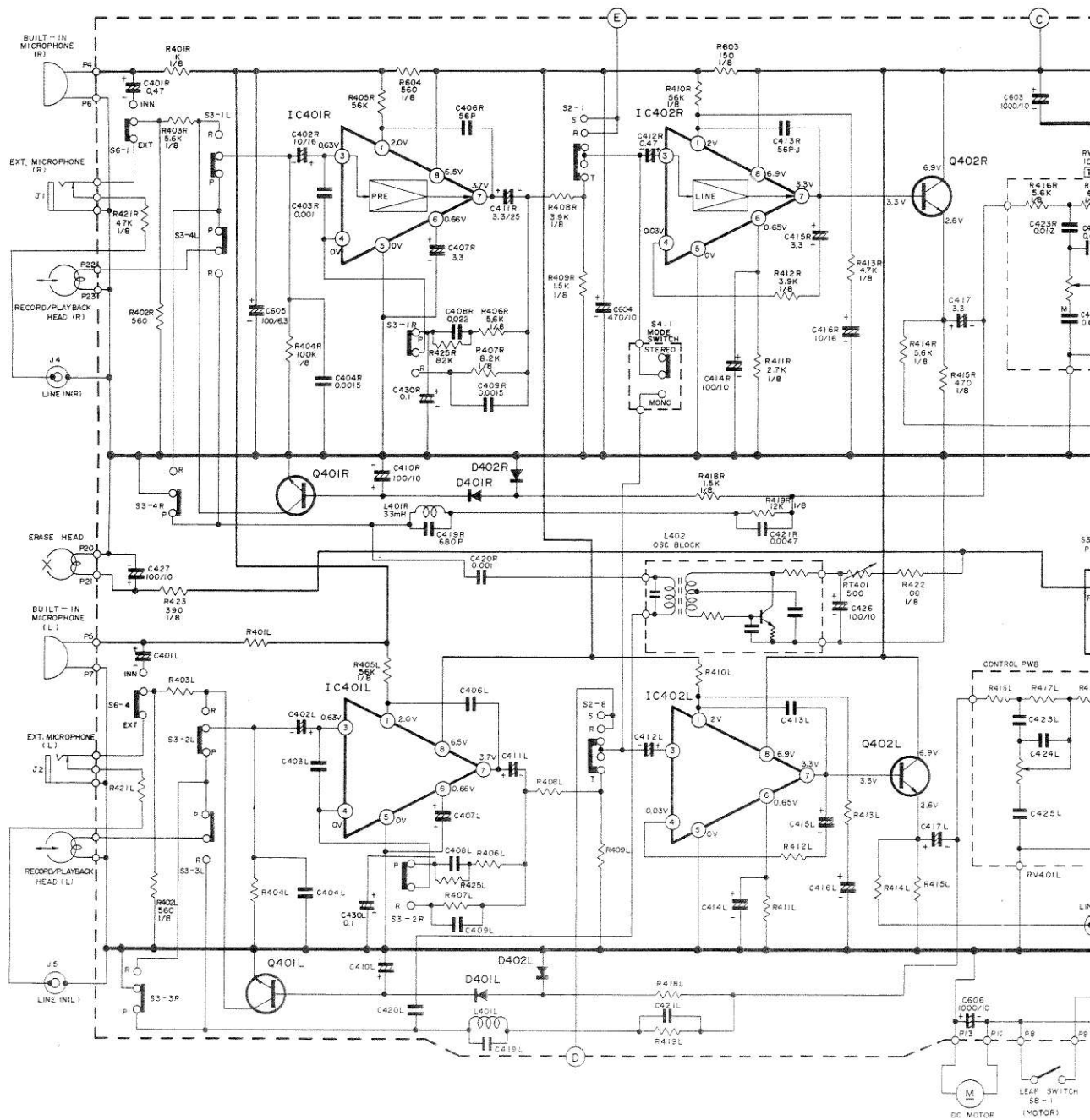
ADJUSTMENT PARTS LOCATION -


SCHEMATIC DIAGRAM (Tuner Section)





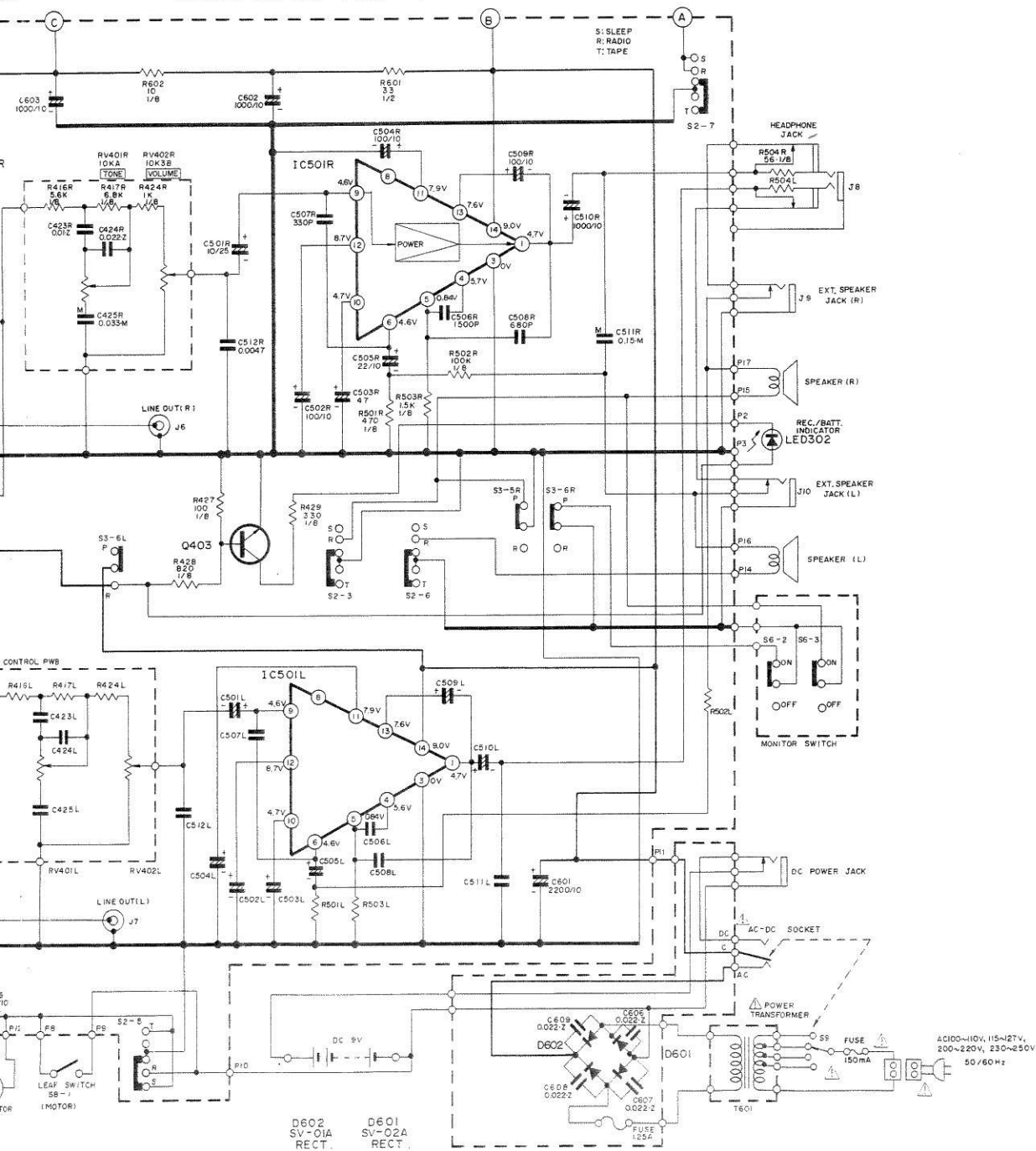
SCHEMATIC DIAGRAM (Tape Recorder/AF/Power Section)

IC401L,R
BA-340
PRE AMP.Q401L,R
2SC1740R
ALCD401L,R
IS2473
ALCD402L,R
IN60
ALCIC402L,R
HA-1406
LINE AMP.Q402L,R
2SC1740R
LINE AMP.

R
OR
MP.

Q403
2SC1740R
INDICATOR OPERATION

IC501L,R
LA-4112
POWER AMP.



CIRCUIT BOARD DIAGRAM

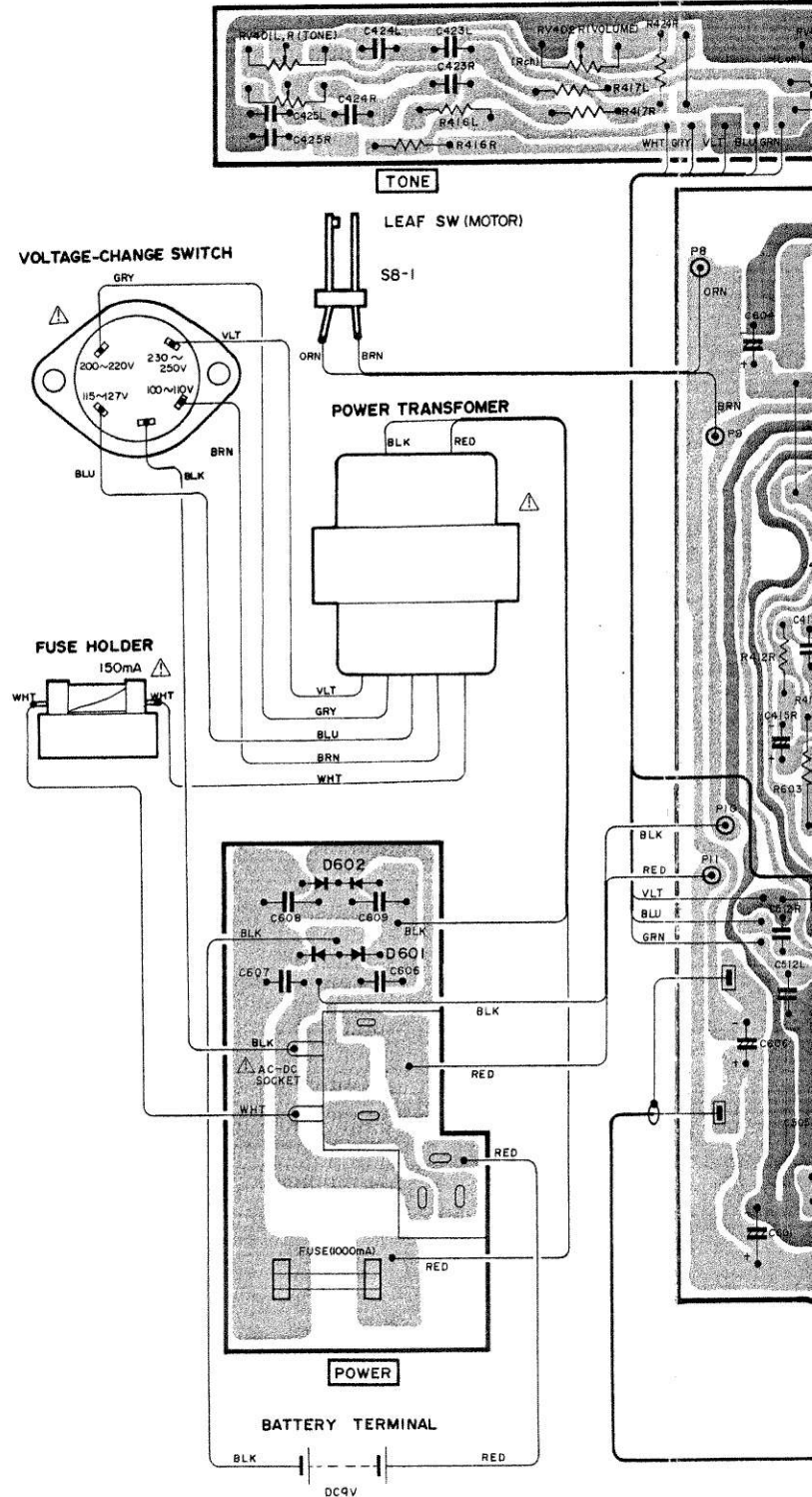
Note

1. Voltage measured at base of chassis with minimum volume control and no signal.
2. Nomenclature of Resistors and Capacitors.

Circuit No.	Value	No indicated Ω (Ohm) M : 1000 k Ω
	Tolerance	No indicated $\pm 5\%$ K : $\pm 10\%$ M : $\pm 20\%$
	Wattage	No indicated $\frac{1}{4}$ W
	Sort	No indicated Carbon film RC : Composition RW : Wire wound RS : Oxide metal film RN : Fixed metal film

Circuit No.	Value	No indicated μ F P : pF
	Tolerance	No indicated $\pm 10\%$ J : $\pm 5\%$ M : $\pm 20\%$ Z : $+80\%$ -20% D : ± 0.5 pF C : ± 0.25 pF
	Sort	Ceramic Electrolytic Mylar Polyester Styrol
	Voltage	No indicated 50V/V

3. Be sure to make your orders of resistors and capacitors with value, voltage, tolerance and sort.
4. When replacing capacitors marked with *, use specified ones stated on parts list since required temperature characteristics.



CIRCUIT BOARD DIAGRAM

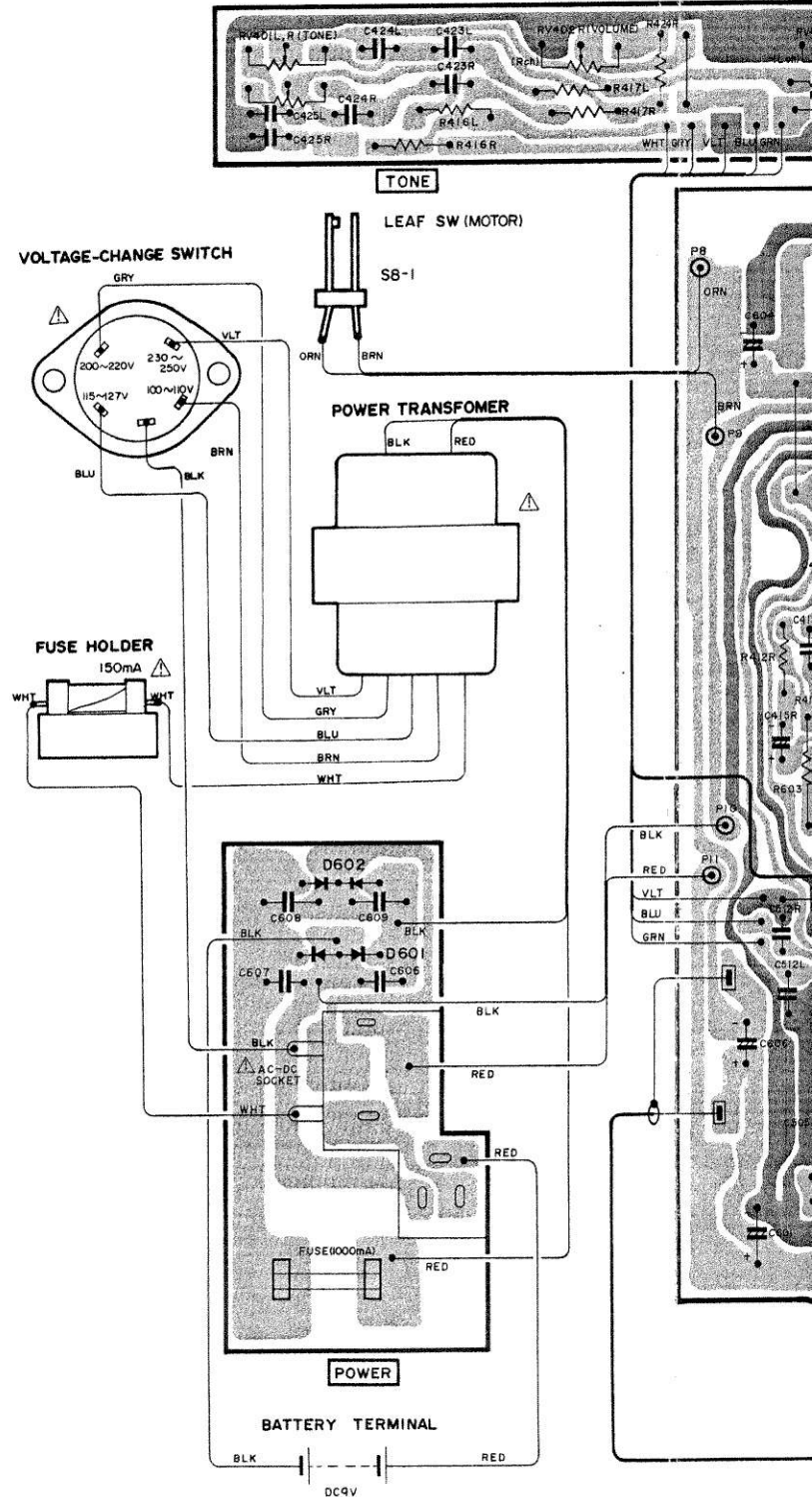
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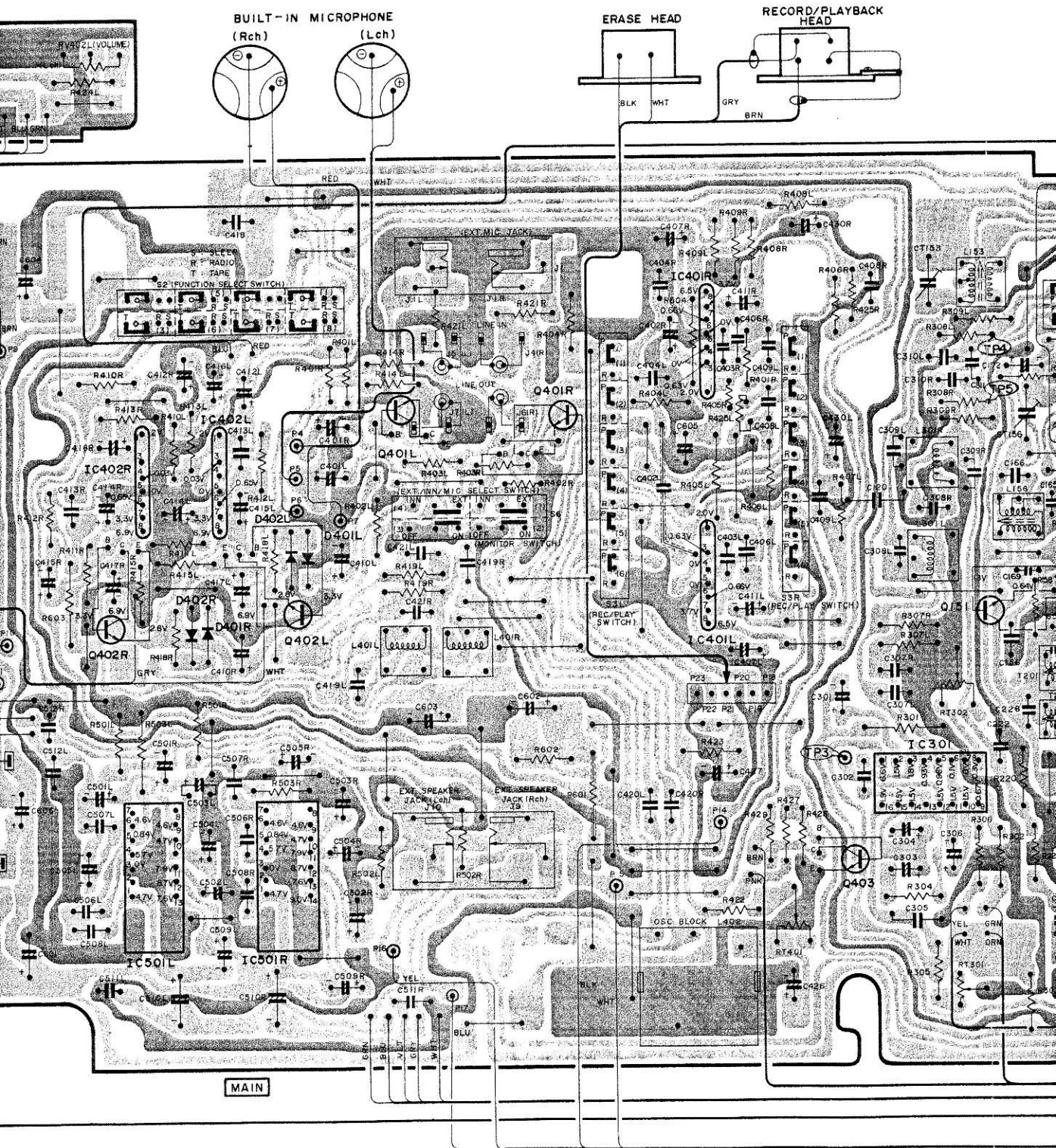
Circuit No.	Value	No indicated μ F P : pF
	Tolerance	No indicated $\pm 10\%$ J : $\pm 5\%$ M : $\pm 20\%$ Z : $+80\%$ -20% D : ± 0.5 pF C : ± 0.25 pF
	Sort	Ceramic Electrolytic Mylar Polyester Styrol
	Voltage	No indicated 50V/V

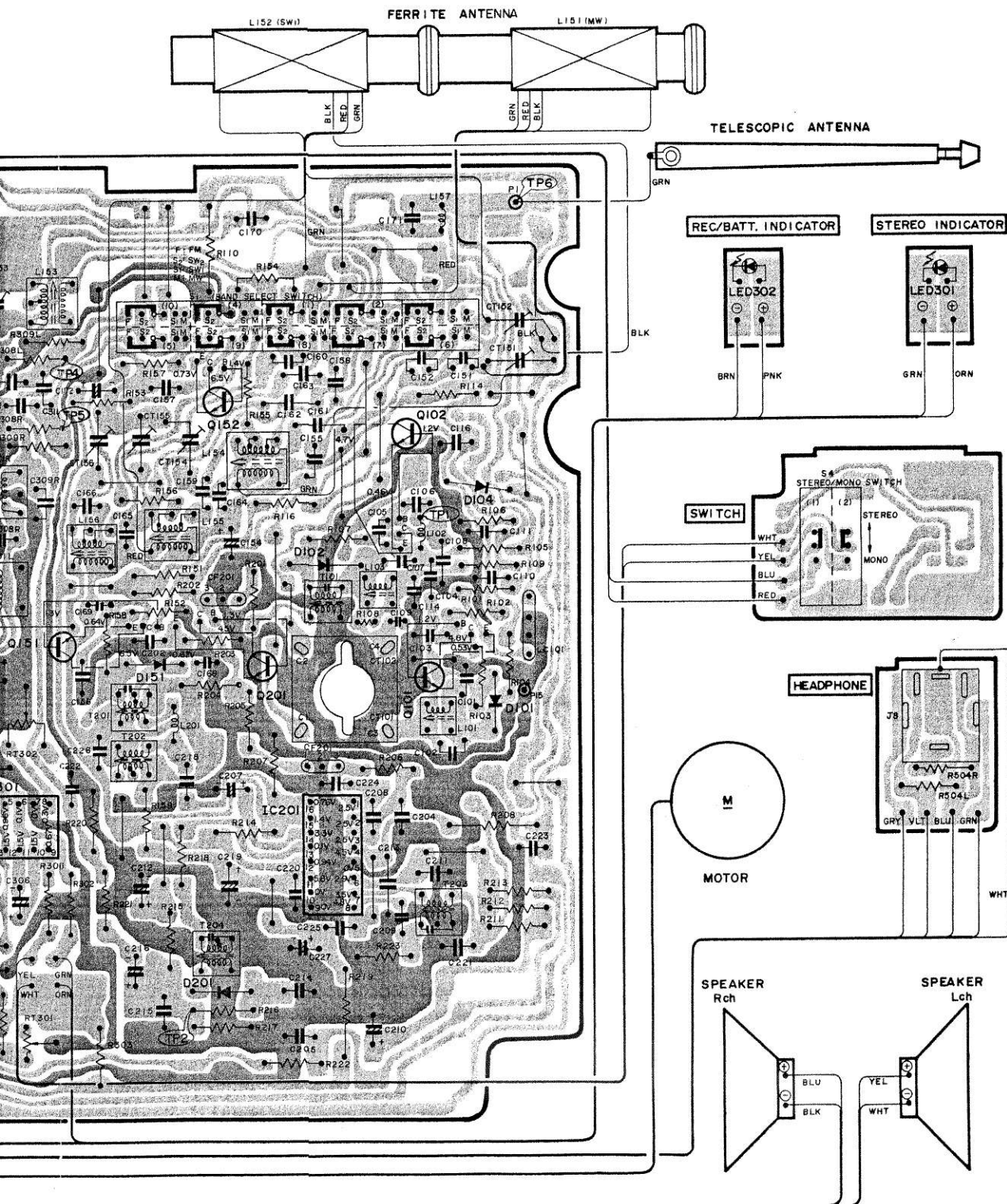
3. Be sure to make your orders of resistors and capacitors with value, voltage, tolerance and sort.
4. When replacing capacitors marked with *, use specified ones stated on parts list since required temperature characteristics.



: Ground

: Signal, +B

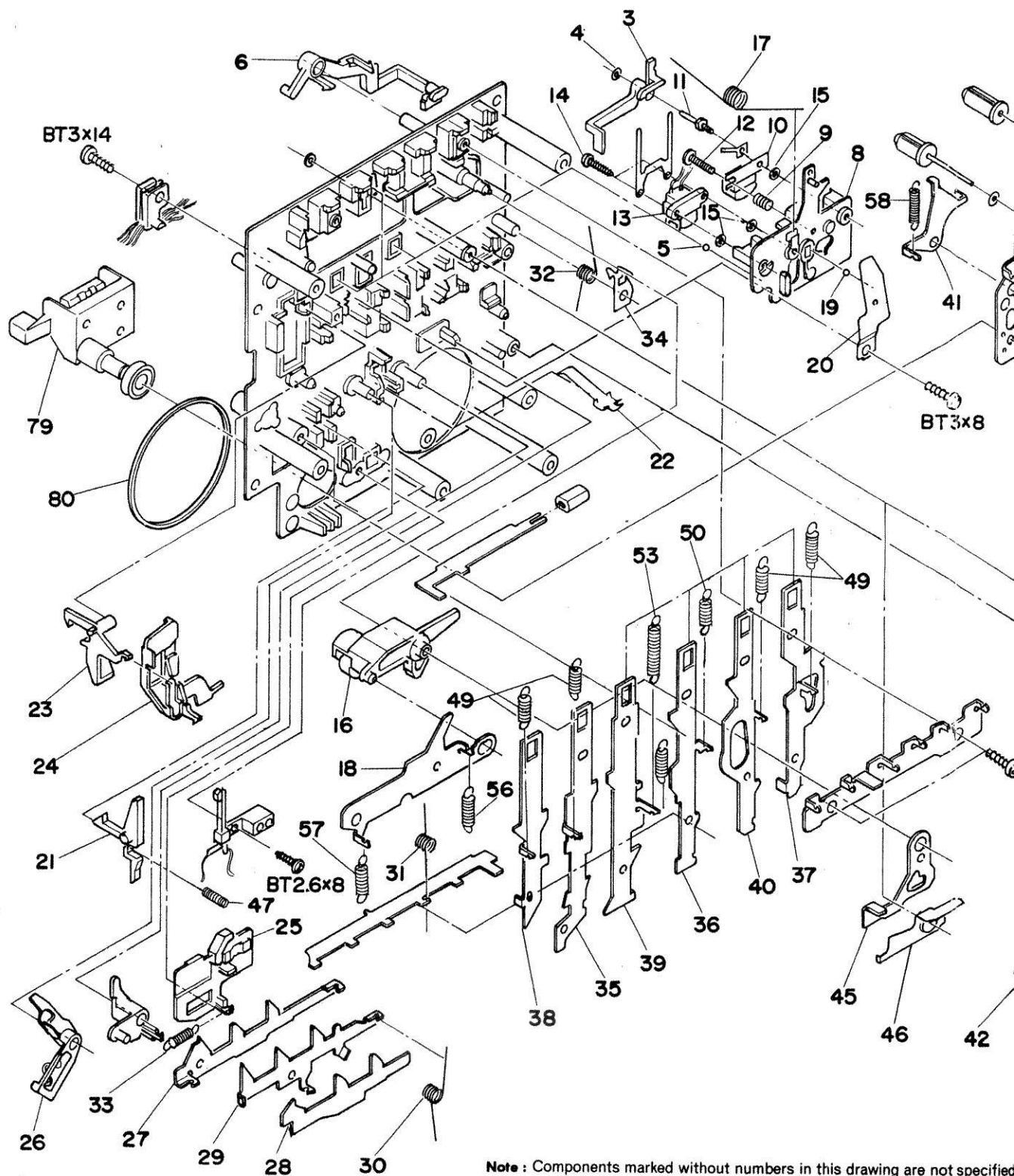




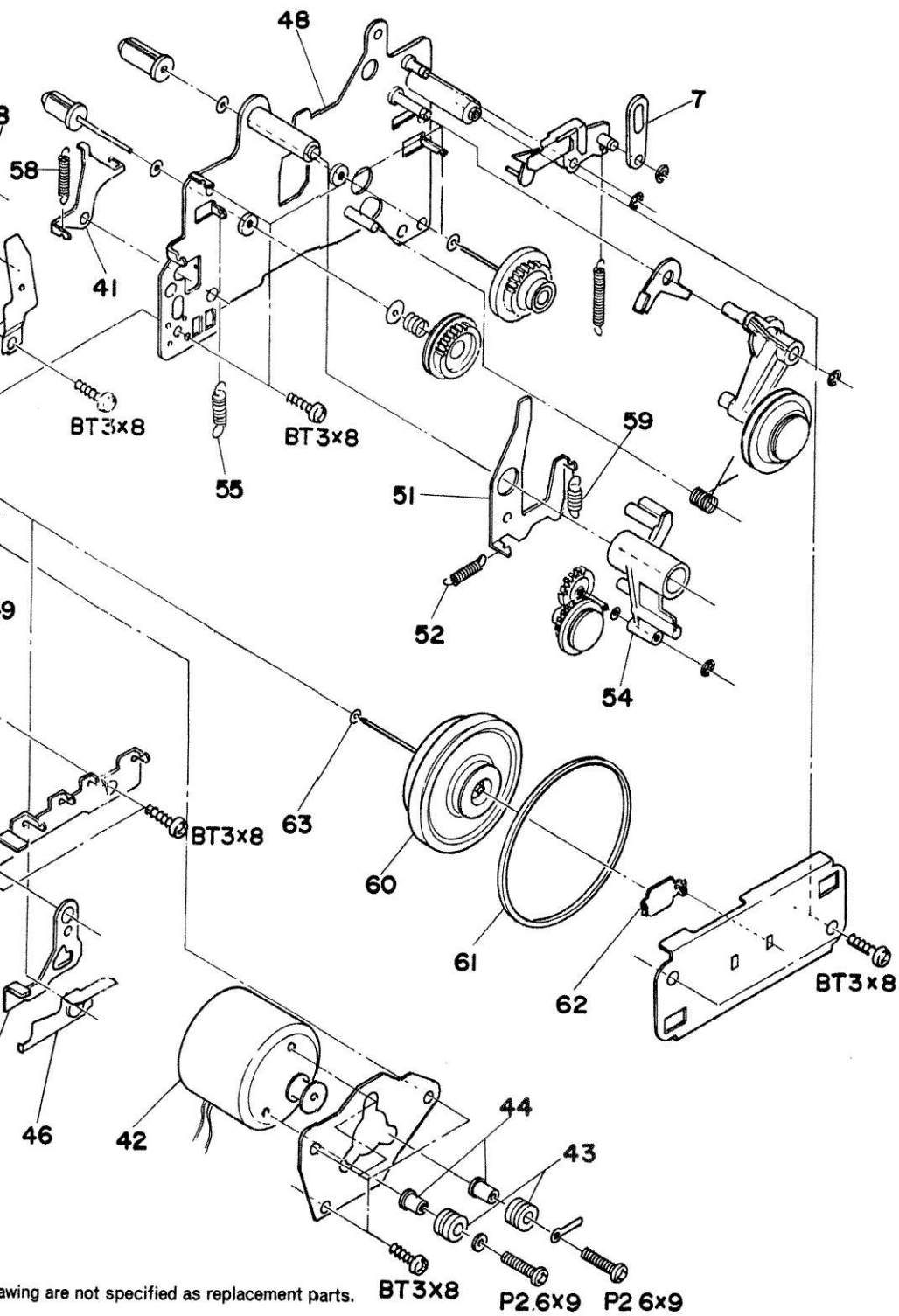
REPLACEMENT PARTS LIST

SYMBOL-NO	P-NO	DESCRIPTION	SYMBOL-NO	P-NO	DESCRIPTION
CAPACITORS			TRANSFORMERS		
CT101	5052241	PLASTIC FILM VARIABLE	T101	5140071	FM IF
CT102	5052241	PLASTIC FILM VARIABLE	T201	5130153	AM IF
CT151	0283557	TRIMMER	T202	0322127	AM IF 30KOHM: 0.5KOHM
CT152	0283565	VARIABLE	T203	5140073	FM IF
CT153	5058191	TRIMMER 10PF	T204	5130122	AM IF
CV101	5052241	PLASTIC FILM VARIABLE	△ T601	5211925	POWER
CV102	5052241	PLASTIC FILM VARIABLE	COILS		
CV151	5052241	PLASTIC FILM VARIABLE	L101	5126006	FM RF 0.5 MICROM
CV152	5052241	PLASTIC FILM VARIABLE	L102	5123271	FM TRAP 0.5MH
C107	0246430	CERAMIC DISC 10PF +- 0.5PF	L103	5126369	FM OSC
C109	0248477	CERAMIC DISC 7PF +- 0.5PF	L151	5117761	FERRITE ANTENNA
C305	0249537	CERAMIC DISC 470PF+-5%(NP=0)	L152	5117761	FERRITE ANTENNA
RESISTORS			L153	5123674	SW ANTENNA
RT301	0151886	VARIABLE 10KOHM B	L154	5120319	OSCILLATOR
RT302	0151806	SEMI VARIABLE 1KOHM B	L155	5120424	SW OSC
RT401	0151807	SEMI VARIABLE 5000HM	L156	5123495	SW OSC
RV401LR	5000042	VARIABLE 10KOHM(A)	L157	0333116	CHOKE
RV402LR	5000183	VARIABLE 10KOHM(B)	L201	5152027	CHOKE
SEMI-CONDUCTORS			L301LR	5150571	CHOKE 33MH
D101	5339011	DIODE 1S2473	L401LR	5150571	CHOKE 33MH
D102	5330731	DIODE GERMANIUM IN60 80MHZ 50MW	L402	5260641	OSCILLATOR BLOCK
D151	5339011	DIODE 1S2473	MISCELLANEOUS		
D201	5330731	DIODE GERMANIUM IN60 80MHZ 50MW	△	5653221	AC-DC SOCKET
D401LR	5339011	DIODE 1S2473	ANT	5752461	ROD ANTENNA
D402LR	0575005	DIODE GERMANIUM IN60 80M	CF201	5160211	CERAMIC FILTER CF107A
D601	5330372	DIODE SILICON SVD2A 60H	CF202	5160211	CERAMIC FILTER CF107A
D602	5330371	DIODE SILICON SVD1A 60H	△ F601	5721142	FUSE 150MA
IC201	5351411	IC HA11251	F602	5721042	FUSE (1.25A)
IC301	5350682	IC BA1320	J 1	5679442	JACK PLATE (EXT. MIC)
IC401LR	5350961	IC BA340	J 2	5679442	JACK PLATE (EXT. MIC)
IC402LR	5350251	IC HA1406	J 4-7	5676162	4P PIN JACK (LINE IN/LINE OUT)
IC501LR	5350702	IC LA4112	J 8	5674132	HEADPHONE JACK
LED301	5380053	LED SR103D	J 9	5676201	2P PIN JACK (SPEAKER)
LED302	5380053	LED SR103D	J10	5676201	2P PIN JACK (SPEAKER)
Q101	5321271	TRANSISTOR SILICON 2SC1674L 600MHZ	LC101	5161551	FM BAND PASS FILTER
Q102	5321271	TRANSISTOR SILICON 2SC1674L 600MHZ	MIC	5421571	BUILT IN MICROPHONE
Q151	0573486	TRANSISTOR SILICON 2SC460 230M	SP	5405301	SPEAKER-10CM
Q152	0573510	TRANSISTOR SILICON 2SC535 700M	S1	5625011	SLIDE SWITCH (BAND)
Q201	0573486	TRANSISTOR SILICON 2SC460 230M	S2	5620382	SLIDE SWITCH (FUNCTION)
Q401LR	5321293	TRANSISTOR 2SC1740LN-R	S3LR	5623271	SLIDE SWITCH (RECORD/PLAYBACK)
Q402LR	5321293	TRANSISTOR 2SC1740LN-R	S4	5604082	LEVER SWITCH (MODE)
Q403	5321293	TRANSISTOR 2SC1740LN-R	S6	5620701	SLIDE SWITCH (MIC/MONITOR)
			S8	5603231	LEAF SWITCH (MOTOR)
			△ S9	5639023	VOLTAGE CHANGE-OVER SWITCH
			FOR ACCESSORIES		
			△	5747214	POWER CORD
				5660212	SIEMENS PLUG

EXPLODED VIEW (Cassette Chassis)



Note: Components marked without numbers in this drawing are not specified



rawing are not specified as replacement parts.

REPLACEMENT PARTS LIST

SYMBOL-NO	P-NO	DESCRIPTION	SYMBOL-NO	P-NO	DESCRIPTION	
C1101	5052241	PLASTIC FILM VARIABLE	Δ	1101	5140071 FM IF	
C1102	5052241	PLASTIC FILM VARIABLE	Δ	1201	5130153 AM IF	
C1151	5052241	PLASTIC FILM VARIABLE	Δ	1202	0322127 AM IF 30KOHM; 0.5KOHM	
C1152	0203555	TRIMMER	Δ	1203	5140073 FM IF	
C1153	5058191	TRIMMER 10PF	Δ	1204	5130122 AM IF	
C1101LR	5052241	PLASTIC FILM VARIABLE	Δ	1601	5211925 POWER	
C1102LR	5052241	PLASTIC FILM VARIABLE	COILS			
CV152	5052241	PLASTIC FILM VARIABLE	L101	5126006 FM RF 0.5 MICRON		
C107	0246430	CERAMIC DISC 10PF +- 0.5PF	L102	5123271 FM TRAP 0.5MH		
C109	0248477	CERAMIC DISC 7PF +- 0.5PF	L103	5126369 FM OSC		
C309	0249537	CERAMIC DISC 470PF+-5%(NP-01)	L151	5117761 FERRITE ANTENNA		
RT301	0151886	VARIABLE 10KOHM B	L152	5117761 FERRITE ANTENNA		
RT302	0151806	SEMI VARIABLE 1KOHM B	L153	5123674 SW ANTENNA		
RT401	0151807	SEMI VARIABLE 500OHM	L154	5120319 OSCILLATOR		
RV401LR	5000042	VARIABLE 10KOHM(A)	L155	5120424 SW OSC		
RV402LR	5000183	VARIABLE 10KOHM(B)	L156	5123495 SW OSC		
D101	5330731	DIODE GERMANIUM IN60 80MHZ 50MW	L157	0333116 CHOKER		
D151	5330731	DIODE 152473	L201	5152027 CHOKER		
D102	5330731	DIODE GERMANIUM IN60 80MHZ 50MW	L301LR	5150571 CHOKER 33MH		
D152	5330731	DIODE 152473	L401LR	5150571 CHOKER 33MH		
D201	5330731	DIODE GERMANIUM IN60 80MHZ 50MW	L402	5260641 OSCILLATOR BLOCK		
D401LR	5330731	DIODE 152473	MISCELLANEOUS			
D402LR	0573005	DIODE GERMANIUM IN60 80M	Δ	5653221	AC-DC SOCKET	
D601	5330372	DIODE SILICON SVO2A 60H	ANT	5752461	R00 ANTENNA	
D602	5330371	DIODE SILICON SVO1A 60H	CF201	5160211 CERAMIC FILTER CF107A		
IC301	5350602	IC BA1320	CF202	5160211 CERAMIC FILTER CF107A		
IC401LR	5350961	IC BA340	Δ	F601	FUSE 150MA	
IC402LR	5350251	IC HA1406	F602	5721042 FUSE (1.25A)		
IC501LR	5350702	IC LA4112	J 1	5679442 JACK PLATE (EXT. MIC)		
LED301	5380053	LED SR103D	J 2	5679442 JACK PLATE (EXT. MIC)		
LED302	5380053	LED SR103D	J 4-7	5676162 4P PIN JACK (LINE IN/LINE OUT)		
Q101	5321271	TRANSISTOR SILICON 2SC1674L 600MHZ	J 8	5674132 HEADPHONE JACK		
Q102	5321271	TRANSISTOR SILICON 2SC1674L 600MHZ	J 9	5676201 2P PIN JACK (SPEAKER)		
Q401LR	5321293	TRANSISTOR 2SC1740LN-R	J10	5676201 2P PIN JACK (SPEAKER)		
Q402LR	5321293	TRANSISTOR 2SC1740LN-R	LC101	5161551 FM BAND PASS FILTER		
Q403	5321293	TRANSISTOR 2SC1740LN-R	MIC	5421571 BUILT IN MICROPHONE		
Δ	5747214	POWER CORD	SP	5405301 SPEAKER-10CM		
Δ	5660212	SIEMENS PLUG	S1	5625011 SLIDE SWITCH (BAND)		
			S2	5620382 SLIDE SWITCH (FUNCTION)		
			S3LR	5623271 SLIDE SWITCH (RECORD/PLAYBACK)		
			S4	5604082 LEVER SWITCH (MODE)		
			S5	5620701 SLIDE SWITCH (MIC/MONITOR)		
			S6	5603231 LEAF SWITCH (MOTOR)		
			Δ	S9	5639023 VOLTAGE CHANGE-OVER SWITCH	
			FOR ACCESSORIES			
			5747214	POWER CORD		
			5660212	SIEMENS PLUG		

SYMBOL-NO	P-NO	DESCRIPTION	SYMBOL-NO	P-NO	DESCRIPTION
FOR CASSETTE DECK ASSEMBLY (B)			MISCELLANEOUS		
64	6750913	CHASSIS ASSEMBLY	81	6282732	KNOB (TUNING)
65	6345591	PULLEY	82	6282298	KNOB-20MM (VOLUME, TONE)
66	6516231	SPRING M	83	6296381	SWITCH KNOB (MODE)
67	0661058	8D ROLLER P	84	6282701	KNOB ASSEMBLY (BAND, FUNCTION)
68	6394264	POINTER	85	6333483	HANDLE ASSEMBLY
69	6750821	EXCHANGE LEVER	86	6570221	MICROPHONE HOLDER
70	6750822	EXCHANGE LEVER	87	7781148	BT SCREW-3MMDX50MM
71	6750831	LEVER HOLDER	88	8699410	BT BIND HEAD SCREW-3MMDX10MM (BLACK)
72	6750851	ARM (BAND SELECT)	89	6032313	FRONT CASE ASSEMBLY
73	6750843	LEVER (BAND SELECT)	90	6091971	CASSETTE LID
74	6753291	LED PIPE	91	7781133	BT SCREW-3MMD
75	6750871	FUNCTION LEVER	92	6032283	REAR CASE ASSEMBLY
76	6750891	FUNCTION SLIDER	93	6173212	BATTERY LID ASSEMBLY
77	6467483	SCALE PLATE	94	5687142	CAP TERMINAL
78	7298402	RECORDING SPRING ASSEMBLY	95	8744414	BIND SCREW-3MMDX14MM
79	5559071	COUNTER (M2)	96	6308961	SPRING
80	6354471	COUNTER BELT	97	0681129	SPRING A
			98	7450344	BATTERY TERMINAL
			99	7781146	BT SCREW-3MMDX20MM
			100	5659121	BACK COVER

	Type of head			
	P	Pan head screw	BT	Binding head tapping screw
	F	Flat countersunk head screw	BL	Bolt
	B	Binding head screw	W	Washer
	T	Round head tapping screw	E	"E" ring
	Length (L mm)			
	Diameter (D mm)			

When ordering hardware excluding stated on these lists, be sure to make your orders with type and size.

CIRCUIT BOARD DIAGRAM

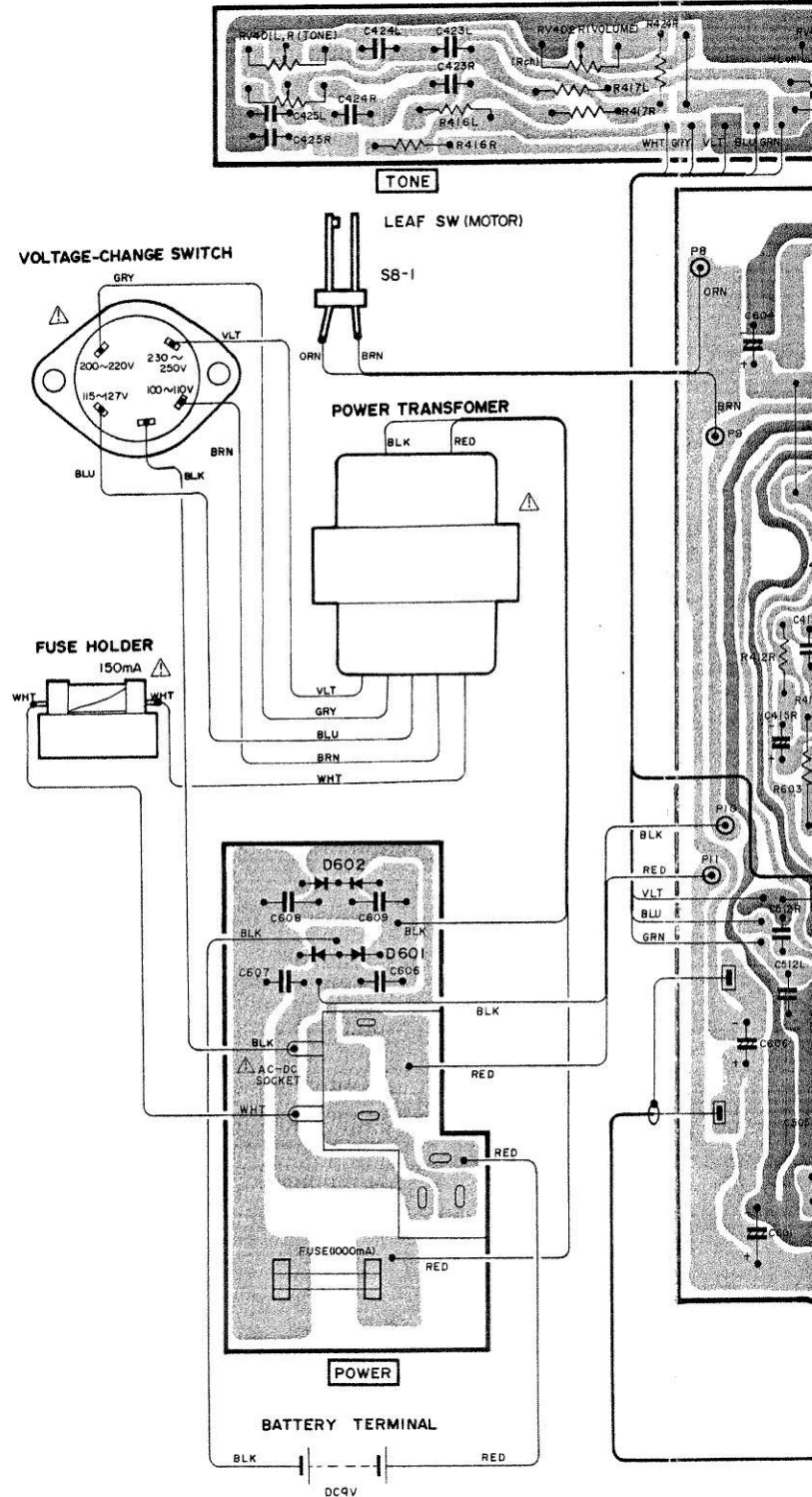
Note

1. Voltage measured at base of chassis with minimum volume control and no signal.
2. Nomenclature of Resistors and Capacitors.

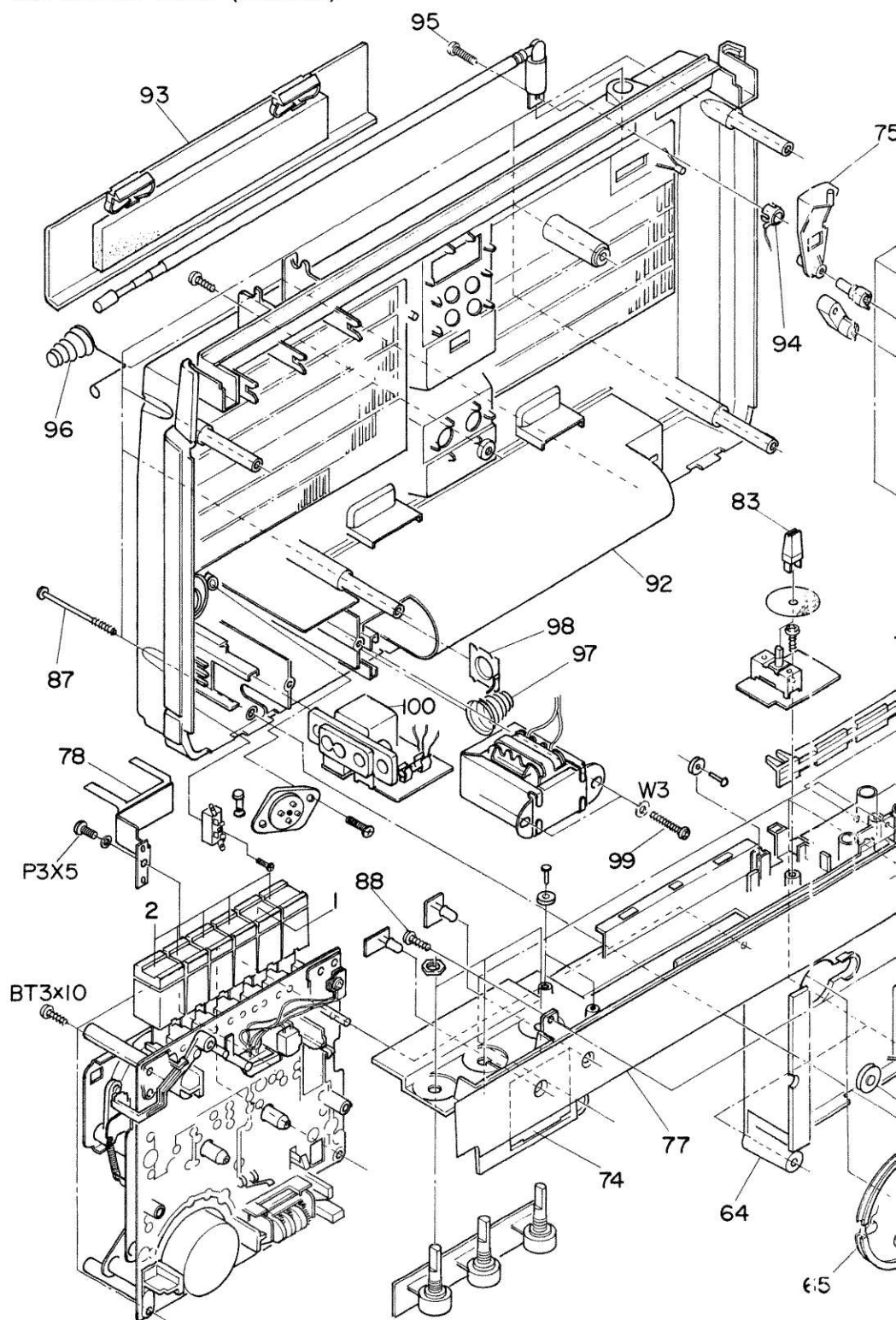
Circuit No.	
Value	No indicated Ω (Ohm) M : 1000 k Ω
Tolerance	No indicated $\pm 5\%$ K : $\pm 10\%$ M : $\pm 20\%$
Wattage	No indicated $\frac{1}{4}W$
Sort	No indicated Carbon film RC : Composition RW : Wire wound RS : Oxide metal film RN : Fixed metal film

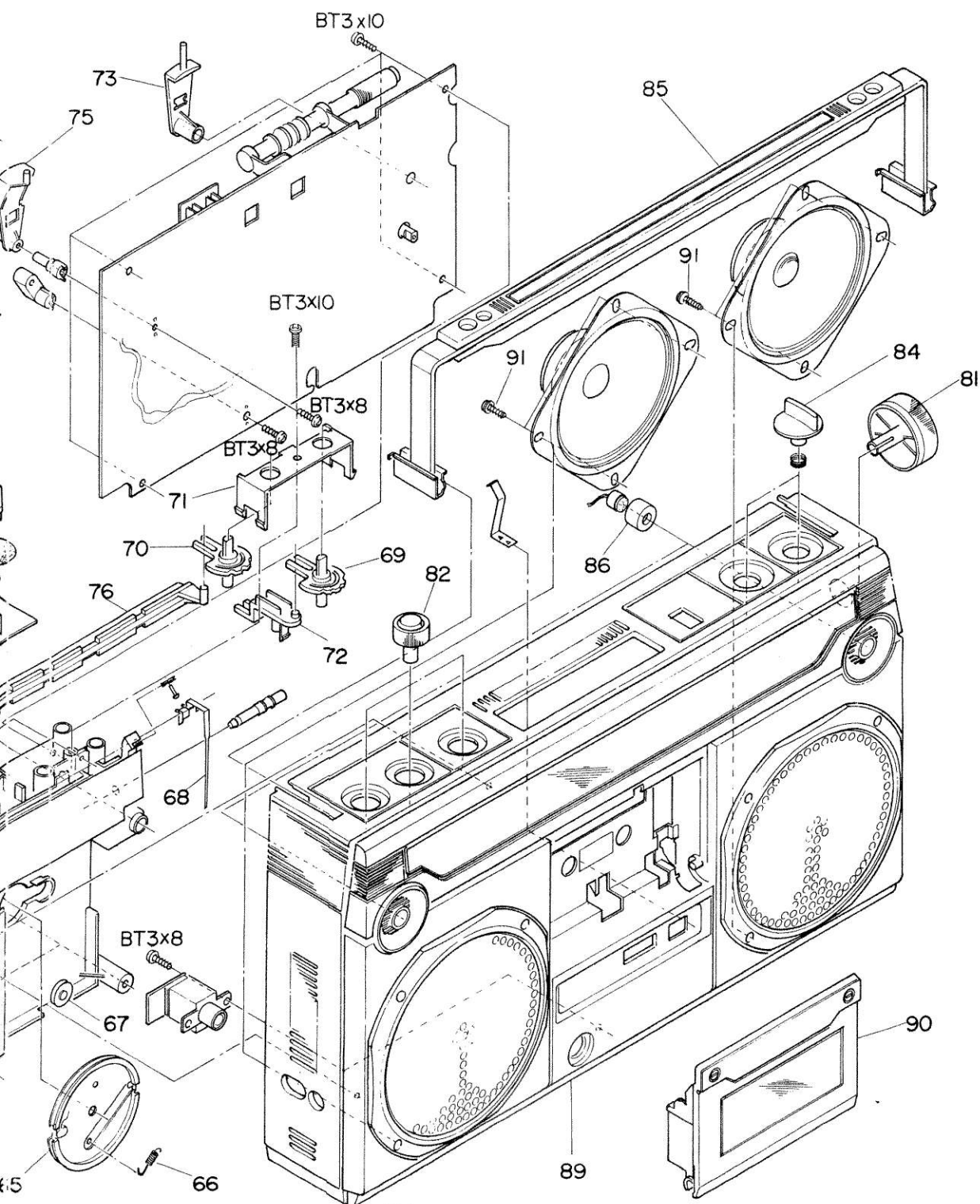
Circuit No.	
Value	No indicated μF P : pF
Tolerance	No indicated $\pm 10\%$ J : $\pm 5\%$ M : $\pm 20\%$ Z : $+80\%$ -20% D : $\pm 0.5pF$ C : $\pm 0.25pF$
Sort	Ceramic Electrolytic Mylar Polyester Styrol
Voltage	No indicated 50V/V

3. Be sure to make your orders of resistors and capacitors with value, voltage, tolerance and sort.
4. When replacing capacitors marked with *, use specified ones stated on parts list since required temperature characteristics.



EXPLODED VIEW (Cabinet)

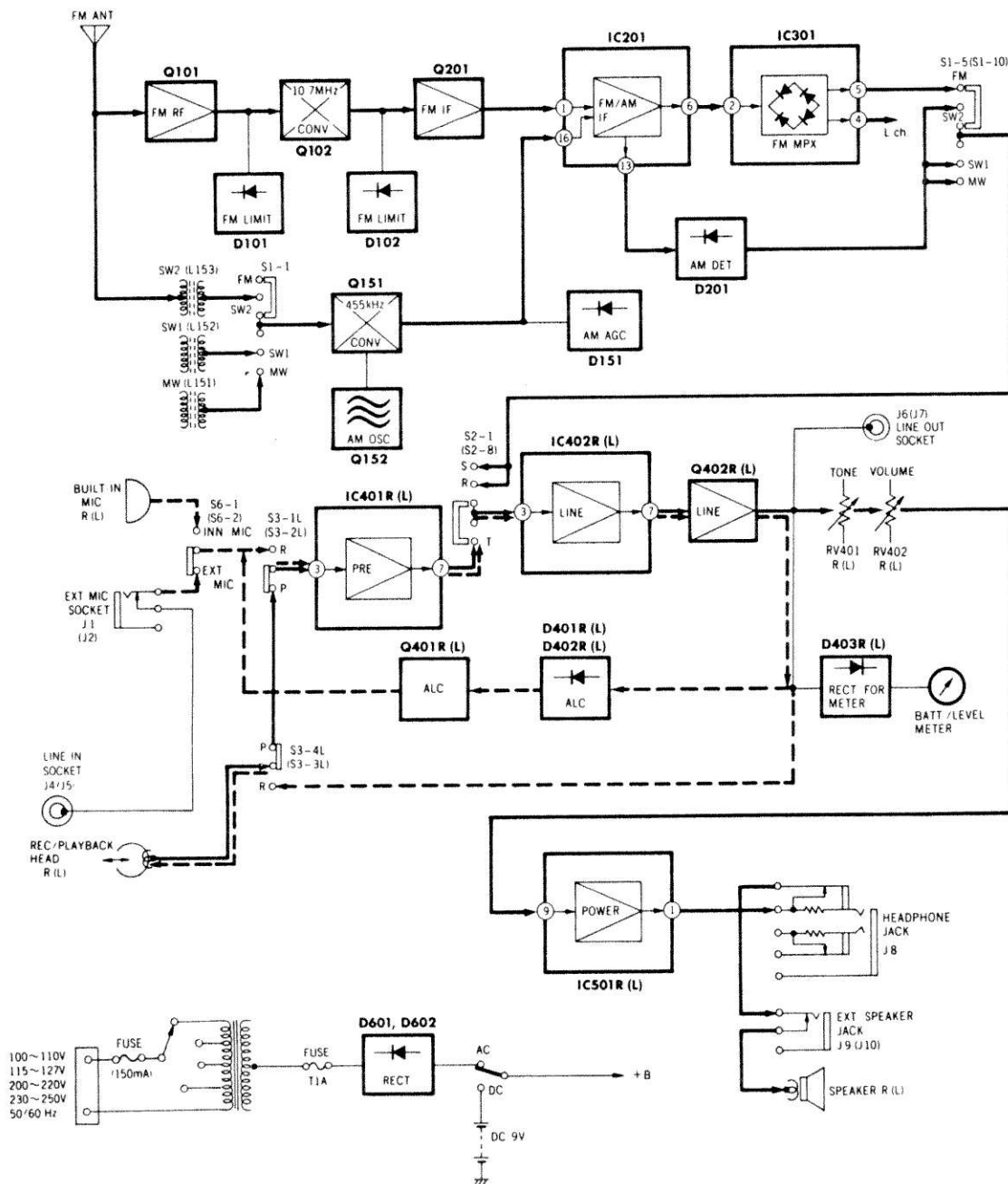




Note :

Components marked without numbers in this drawing are not specified as replacement parts

BLOCK DIAGRAM



K-8000W



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