



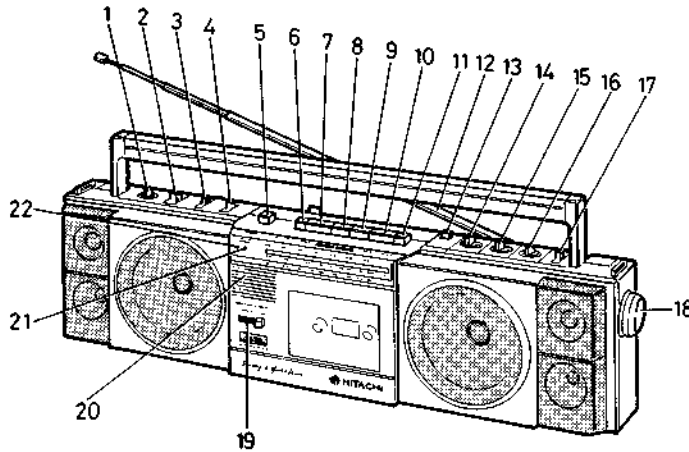
# HITACHI

## SERVICE MANUAL

TK

No. 1865E <sup>1224</sup>

# TRK-6701W



### CONTENTS

SPECIFICATIONS .....	2
DISASSEMBLY .....	2
INSPECTION OF MECHANISM .....	4
LUBRICATIONS .....	4
ADJUSTMENT .....	5
SCHEMATIC DIAGRAM .....	7
CIRCUIT BOARD DIAGRAM .....	9
WIRING DIAGRAM .....	15
DIAL CORD STRINGING .....	17
REPLACEMENT PARTS LIST .....	17
EXPLODED VIEW .....	19

### KEY TO ILLUSTRATIONS

- |                           |                        |
|---------------------------|------------------------|
| ① MIXING VOLUME CONTROL   | ⑫ TELESCOPIC ANTENNA   |
| ② FUNCTION SELECTOR       | ⑬ LOUDNESS SWITCH      |
| ③ MODE SELECTOR           | ⑭ BASS CONTROL         |
| ④ TAPE SELECTOR           | ⑮ TREBLE CONTROL       |
| ⑤ EJECT BUTTON            | ⑯ VOLUME CONTROL       |
| ⑥ PAUSE BUTTON            | ⑰ BAND SELECTOR        |
| ⑦ STOP BUTTON             | ⑱ TUNING CONTROL       |
| ⑧ FAST FORWARD/CUE BUTTON | ⑲ TAPE COUNTER         |
| ⑨ REWIND/REVIEW BUTTON    | ⑳ LED LEVEL INDICATORS |
| ⑩ PLAYBACK BUTTON         | ㉑ FM STEREO INDICATOR  |
| ⑪ RECORD BUTTON           | ㉒ OPERATION INDICATOR  |

### 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 makes. 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.

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

CASSETTE TAPE RECORDER WITH FM/SW/MW RADIO

December 1982

TOKAI WORKS <sup>1224</sup>

## INSPECTION OF MECHANISM

Item	Check Item	Reference Value	Remarks
1	Pressure of pressure roller	300 – 500g	Measure in playback mode
2	Take-up	35 – 75g.cm	
	Fast forward	90 – 150g.cm	Measure in fast forward mode
	Rewind	90 – 150g.cm	Measure in rewind mode
3	Supply side	1.5 – 5.5g.cm	Measure in playback mode
	Take-up side	2.0 – 6.5g.cm	Measure in playback mode (with counter belt)
4	Brake torque	15g.cm or more	Measure in stop mode
5	Button operation force	Playback button	0.4 kg or less
		Fast forward button	0.5 kg or less
		Rewind button	0.6 kg or less
		Stop button	0.4 kg or less
		Record button	0.45 kg or less
		Pause button	0.45 kg or less
6	Flywheel thrust gap	0.05 – 0.3 mm	—————

## LUBRICATIONS

Lubricate one or two drops of oil to rotating point or lubricate grease to sliding point. Lubricate the respective parts listed 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
Rotary section	Metal and metal	Pan motor oil (10W-40)
	Mold and metal	Sonic slider oil (#1600)
Sliding section	Metal and metal	Hitasol (MO-138)
	Mold and mold Mold and metal	White grease (FL-LUBE-A)
Spring resonance prevention		Floil (GB-TS-1)

## SPECIFICATIONS

### GENERAL SECTION

Semi-conductors:	IC's: 6 Transistors: 8 Diodes: 7 LED's: 10
Power (Mains) Supply:	AC: 115/220V, 50/60 Hz (Use accessory AC adaptor) DC: 9V ("C" Cell x 6 or equivalent)
Power output:	2.5W/CH (T.H.D. 10%), 15W P.M.P. (AC operation)
Speakers:	10 cm, 2.8 ohm x 2 4 cm, 140 ohm x 2 2 cm, 500 ohm x 2
Dimensions:	511(W) x 135(H) x 107.5(D)mm
Weight:	3.0 kg (with batteries)

### RADIO SECTION

Circuit System:	FM/SW/MW 3-band superheterodyne
Tuning Range:	FM: 88 to 108 MHz SW: 3.2 to 12 MHz MW: 530 to 1605 kHz
Sensitivity:	FM: 10 dB (pra.), 0 dB (max.) SW: 45 dB (pra.), 35 dB (max.) MW: 48 dB (pra.), 38 dB (max.)
Intermediate Frequency:	FM: 10.7 MHz SW/MW: 455 kHz
Antennas (Aerials):	FM: Telescopic antenna SW/MW: Built-in ferrite-core antenna

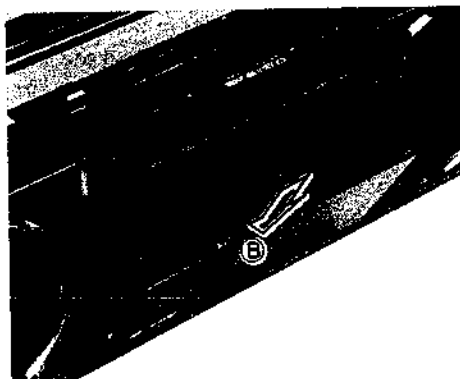
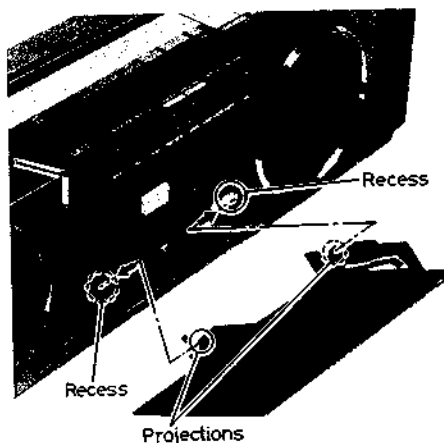
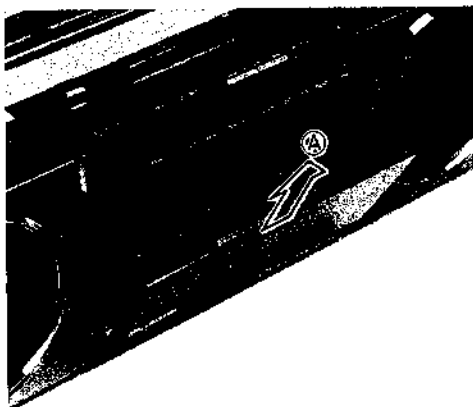
### TAPE RECORDER SECTION

Tape:	Cassette tape (C-30, 60, 90)
Tape Speed:	4.75 cm/s
Track System:	4 track 2 channel
Recording System:	AC bias, 57 kHz
Erasing System:	AC erase
Frequency Response:	METAL: 50 to 14,000 Hz CrO <sub>2</sub> : 50 to 12,000 Hz Normal: 50 to 10,000 Hz
S/N (Signal to Noise Ratio):	45 dB
Wow and Flutter:	0.15% (WRMS)
Cross Talk:	60 dB (Between tracks) 30 dB (Between channels)
Erase Ratio:	70 dB
Input Sensitivity and Impedance:	MIX. MIC.: 1.5 mV, 10k ohms LINE IN: 400 mV, 100k ohms
Output Level and Impedance:	LINE OUT: 700 mV, 5k ohms Headphone: 8~2k ohms
Fast Forwarding or Rewinding Time:	120 sec. (Using C-60)
Distortion:	4%
Motor:	DC micromotor

## DISASSEMBLY

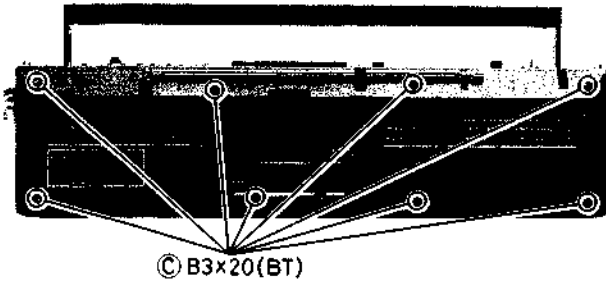
### 1. Cassette lid

- 1) Press the eject button to open the cassette lid.
  - 2) Lift up the cassette lid in the direction of the arrow (A) and pull out the cassette lid.
- \* When install the cassette lid, insert the projection of the cassette lid into the recess of the front case and push the cassette lid in the direction of the arrow (B).



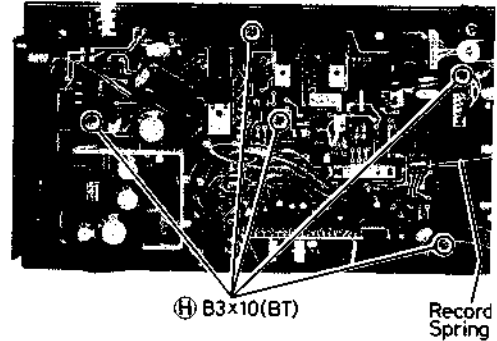
**2. Rear case**

- 1) Remove ten knobs (Tuning, Band, Volume, Treble, Bass, Loudness, Tape, Mode, Function, Mixing volume).
- 2) Remove (C) (eight) screws.



**6. Tape/Audio PC board**

After removing the cassette chassis and the record spring, remove the (H) (five) screws.



**3. Radio PC board**

After removing the (D) (two) connectors, remove the (E) (five) screws.

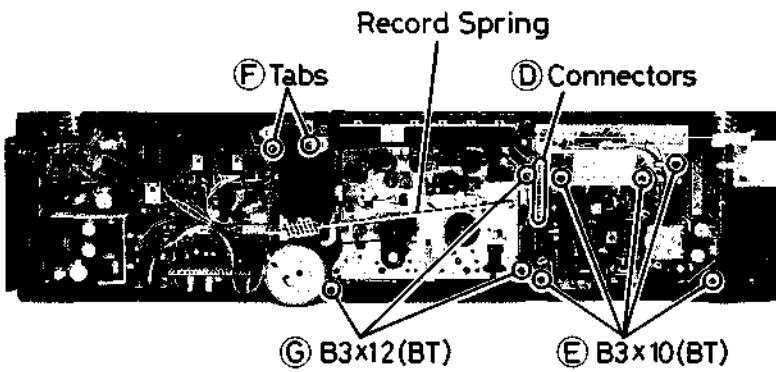
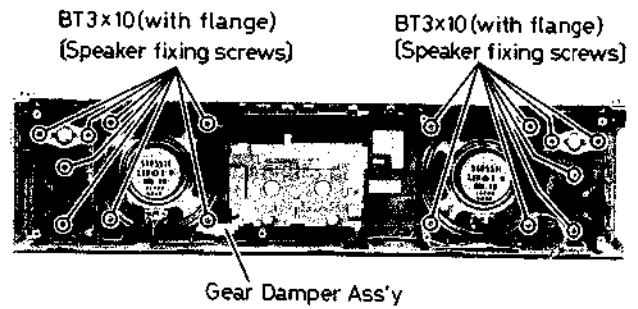
**4. Indicator PC board**

Release locking of the two tabs (F) and remove the PC board.

**5. Cassette chassis**

- 1) Remove the record spring from the record lever locate on chassis rear side.
- 2) Remove (G) (three) screws.

**7. Others**



ADJUSTMENT

1. Radio Section

Step	Adjustment Item	Measuring Instrument and Connection			Genescope or Signal Generator Frequency	Dial Pointer Position	Adjust	Reading
		Measuring Instrument	Input Terminal	Output Terminal				
1	(1) FM IF	• FM signal generator (400Hz, 30% mod.) • Oscilloscope • VTVM	TP101, 102 (thru FM dummy antenna) (Note 3)	TP201	90 MHz	90 MHz	T101	Note 1
	(2) FM S-curve	• Genescope (10.7 MHz)	TP103		10.7 MHz	Highest	—	Note 2
2	(1) FM OSC. (Covering)	• FM signal generator (400Hz, 30% mod.) • Oscilloscope • VTVM	TP101, 102 (thru FM dummy antenna) (Note 3)	Speaker terminal (2.8Ω load)	87 MHz	Lowest	L102	Max.
					109 MHz	Highest	CT102	
					Repeat steps (1) and (2)			
3	(1) FM ANT. (Tracking)	• Oscilloscope • VTVM	TP101, 102 (thru FM dummy antenna) (Note 3)	Speaker terminal (2.8Ω load)	90 MHz	90 MHz	L101	Max.
					106 MHz	106 MHz	CT101	
					Repeat steps (1) and (2)			
4	(1) FM MPX (Multiplex)	• Frequency counter	Connect a 10 μF 25V electrolytic capacitor between the No.2 pin of IC301 and ground.	TP301	—	—	RT301	19kHz ±200Hz (Note 4)
5	(1) AM IF	• Genescope (455 kHz)	Ferrite-core antenna (Note 5)	TP201	455 kHz	Highest	—	Note 6
6	(1) SW OSC. (Covering)	• AM Signal generator (400Hz, 30% mod.) • VTVM	Ferrite antenna (Note 5)	Speaker terminal (2.8Ω load)	3.15 MHz	Lowest	L153	Max.
					12.5 MHz	Highest	CT153	
					Repeat steps (1) and (2)			
7	(1) SW ANT. (Tracking)	• VTVM	Ferrite antenna (Note 5)	Speaker terminal (2.8Ω load)	4 MHz	4 MHz	L151	Max.
					11 MHz	11 MHz	CT151	
					Repeat steps (1) and (2)			
8	(1) MW OSC. (Covering)	• AM signal generator (400Hz, 30% mod.) • VTVM	Ferrite-core antenna (Note 5)	Speaker terminal (2.8Ω load)	515 kHz	Lowest	L154	Max.
					1650 kHz	Highest	CT154	
					Repeat steps (1) and (2)			
9	(1) MW ANT. (Tracking)	• VTVM	Ferrite-core antenna (Note 5)	Speaker terminal (2.8Ω load)	600 kHz	600 kHz	L152	Max.
					1400 kHz	1400 kHz	CT152	
					Repeat steps (1) and (2)			

Note:

1. Feed in a 90 MHz (400 Hz, 30% mod.) weak signal to TP101 from the FM signal generator. Adjust T101 for maximum amplitude of 400 Hz signal shown in Figure 1.

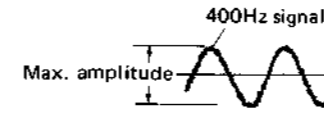


Fig. 1

2. Feed in a weak signal to TP103 from the genescope and confirm that the S-curve is obtained shown in Figure 2.

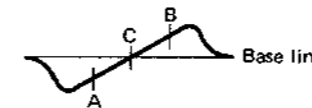


Fig. 2

3. FM dummy antenna shows Figure 3.

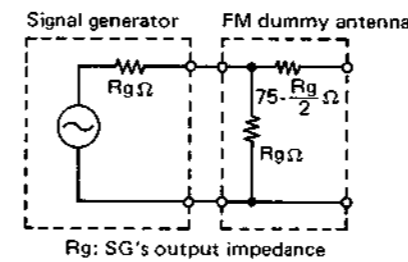


Fig. 3

2. Tape Recorder Section

Perform the following adjustments in the sequence stated after cleaning the heads, pressure roller, and capstan with a head cleaning stick moistened in alcohol.

Item	Adjustments	Measuring Instrument and Connection			Check Tape	Mode	Adjusted Position	Adjusted Value	Remarks
		Measuring Instrument	Input Terminal	Output Terminal					
1	Tape speed	• Frequency counter	—	LINE OUT	Tape speed adjustment tape (3000 Hz)	Playback	Semivariable resistor in the motor	3000 Hz ±30 Hz	See Note 1
2	Head azimuth	• VTVM	—	LINE OUT	Head azimuth adjustment tape (10kHz)	Playback	Azimuth adjusting screw	Output Max.	See Note 2

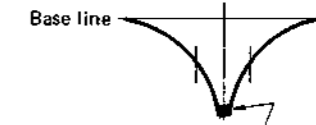
Note:

1. Adjust within 30 sec. after heat-running for more than 20 minutes.
2. When the maximum values of both channels are different, adjust to the maximum value of the L channel. In this case, the difference between the maximum values of both channels should be within 2 dB.

4. Connect the frequency counter to TP301, via a resistor of 100 kΩ.

5. Connect AM signal generator to loop antenna, bring near to ferrite antenna.

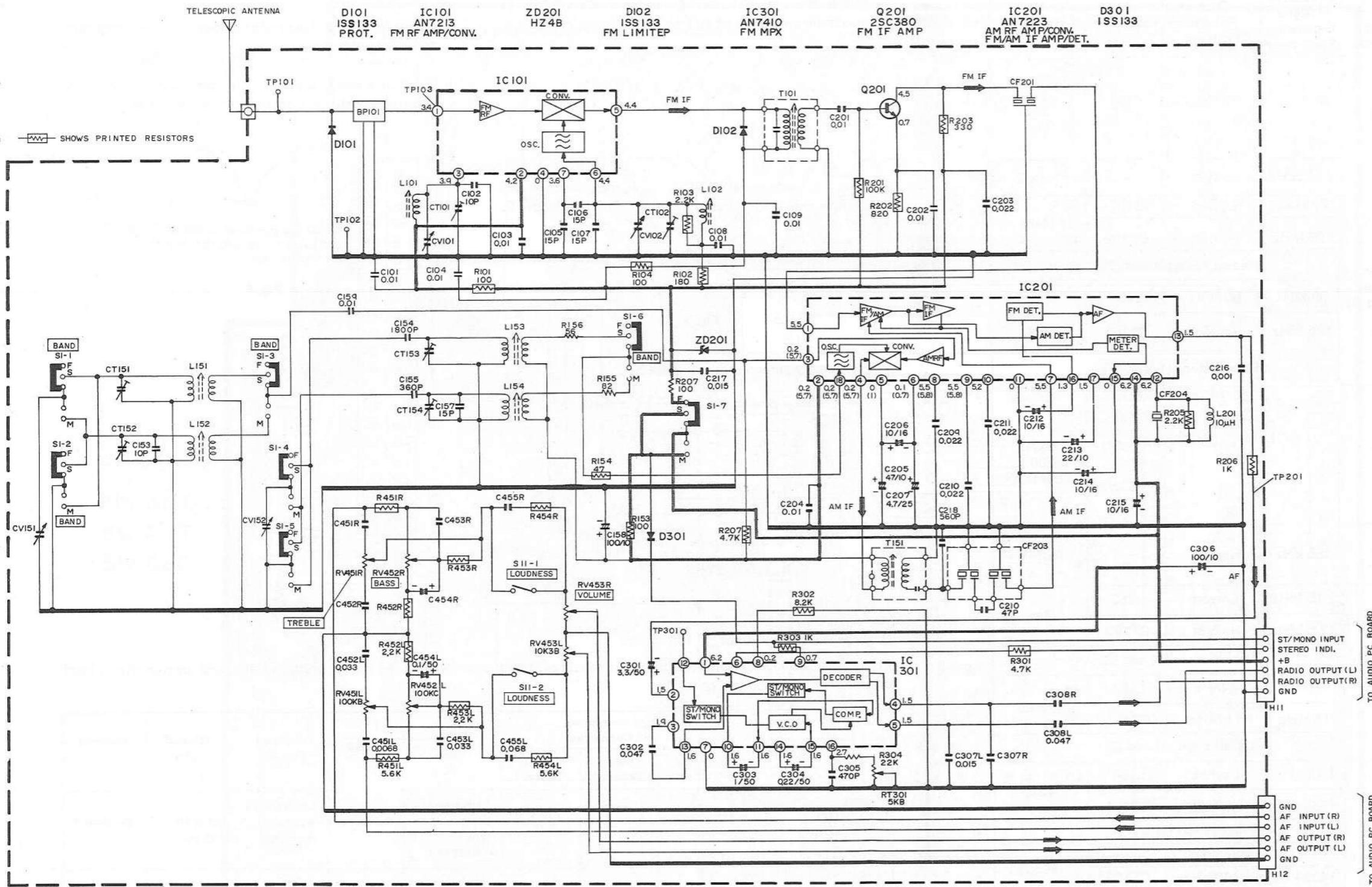
6. Feed in a weak signal from the genescope and confirm that the waveform is obtained shown in Figure 4.



Adjust the genescope output so that there is a little noise riding on the leading edge.

Fig. 4

**SCHEMATIC DIAGRAM (Radio Section)**



**Note**

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

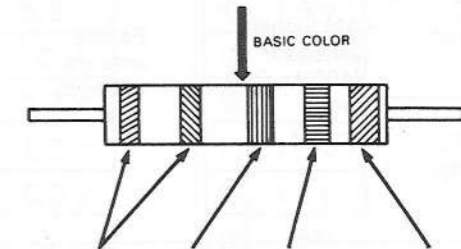
Resistor		Circuit No.	
Value	No indicated Ω(Ohm) M : 1000kΩ	Value	No indicated μF P : PF
Tolerance	No indicated ±5% K : ±10% M : ±20%	Tolerance	No indicated ±10% J : ± 5% M : ±20% Z : +80%, -20% D : ±0.5pF C : ±0.25pF
Wattage	No indicated ¼W	Sort	Ceramic Electrolytic Mylar Polyester Styrol
Sort	No indicated Carbon film RC : Composition RW : Wire wound RS : Oxide metal film RN : Fixed metal film	Voltage	No indicated 50WV

Capacitor		Circuit No.	
Value	No indicated μF P : PF	Value	No indicated Ω(Ohm) M : 1000kΩ
Tolerance	No indicated ±10% J : ± 5% M : ±20% Z : +80%, -20% D : ±0.5pF C : ±0.25pF	Tolerance	No indicated ±5% K : ±10% M : ±20%
Sort	Ceramic Electrolytic Mylar Polyester Styrol	Wattage	No indicated ¼W
Voltage	No indicated 50WV	Sort	No indicated Carbon film RC : Composition RW : Wire wound RS : Oxide metal film RN : Fixed metal film

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.

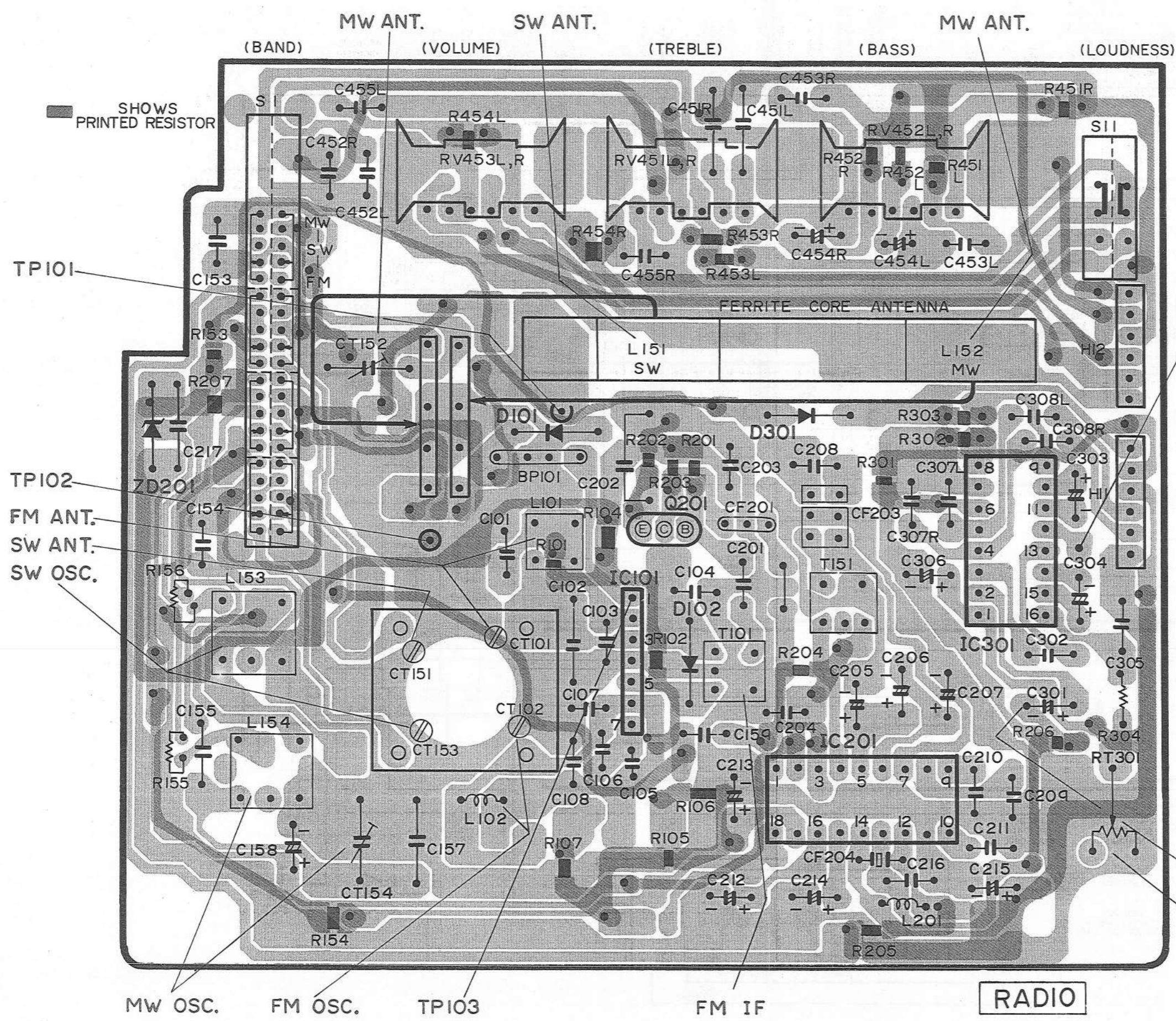
**HOW TO READ CAPACITY OF RESISTOR SHAPE CAPACITORS**

COLOR	RATED VOLTAGE
Pink	25V
Light green	50V



COLOR	CAPACITY	MULTIPLE	TOLERANCE	CHARACTERISTICS
Black	0	10 <sup>0</sup>	±20%	For temperature compensation
Brown	1	10 <sup>1</sup>		
Red	2	10 <sup>2</sup>		
Orange	3	10 <sup>3</sup>		
Yellow	4	10 <sup>4</sup>		
Green	5	10 <sup>5</sup>		
Blue	6			
Violet	7			
Grey	8		±30%	High dielectric constant type
White	9			For temperature compensation
Gold		10 <sup>-1</sup>	±5%	
Silver			±10%	High dielectric constant type

CIRCUIT BOARD DIAGRAM



**Q201**

B	
C	4.5V
E	0.7V

**IC101**

1	3.4V
2	4.2V
3	3.9V
4	0V
5	4.4V
6	4.4V
7	3.6V

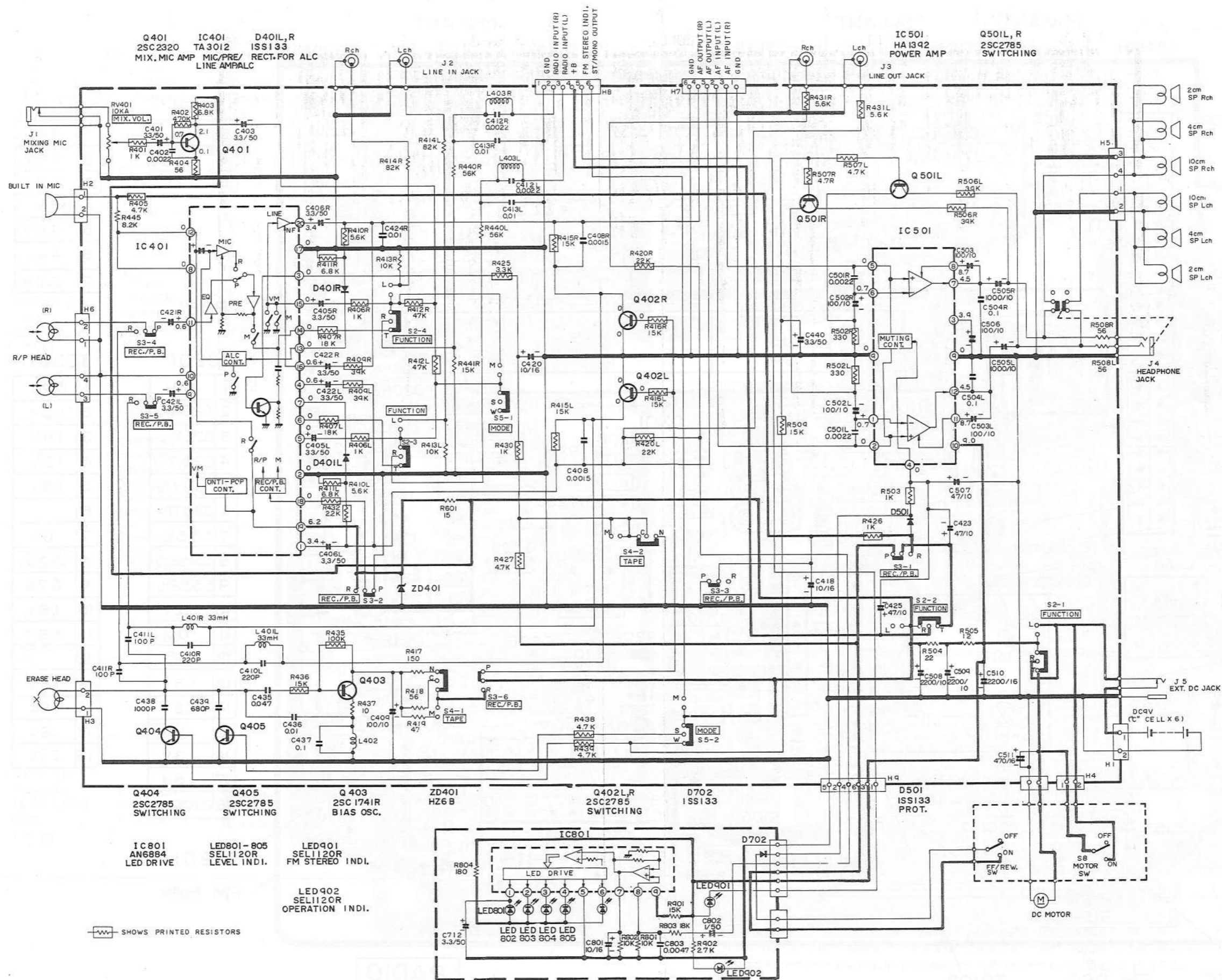
**IC201**

1	5.5V
2	0.2(5.7)V
3	0.2(5.7)V
4	0.2(5.7)V
5	0(1)V
6	0.1(0.7)V
7	5.5V
8	5.5(5.8)V
9	5.5(5.8)V
10	5.2V
11	0V
12	6.2V
13	1.5V
14	6.2V
15	0V
16	1.3V
17	1.5V
18	0.2(5.7)V

**IC301**

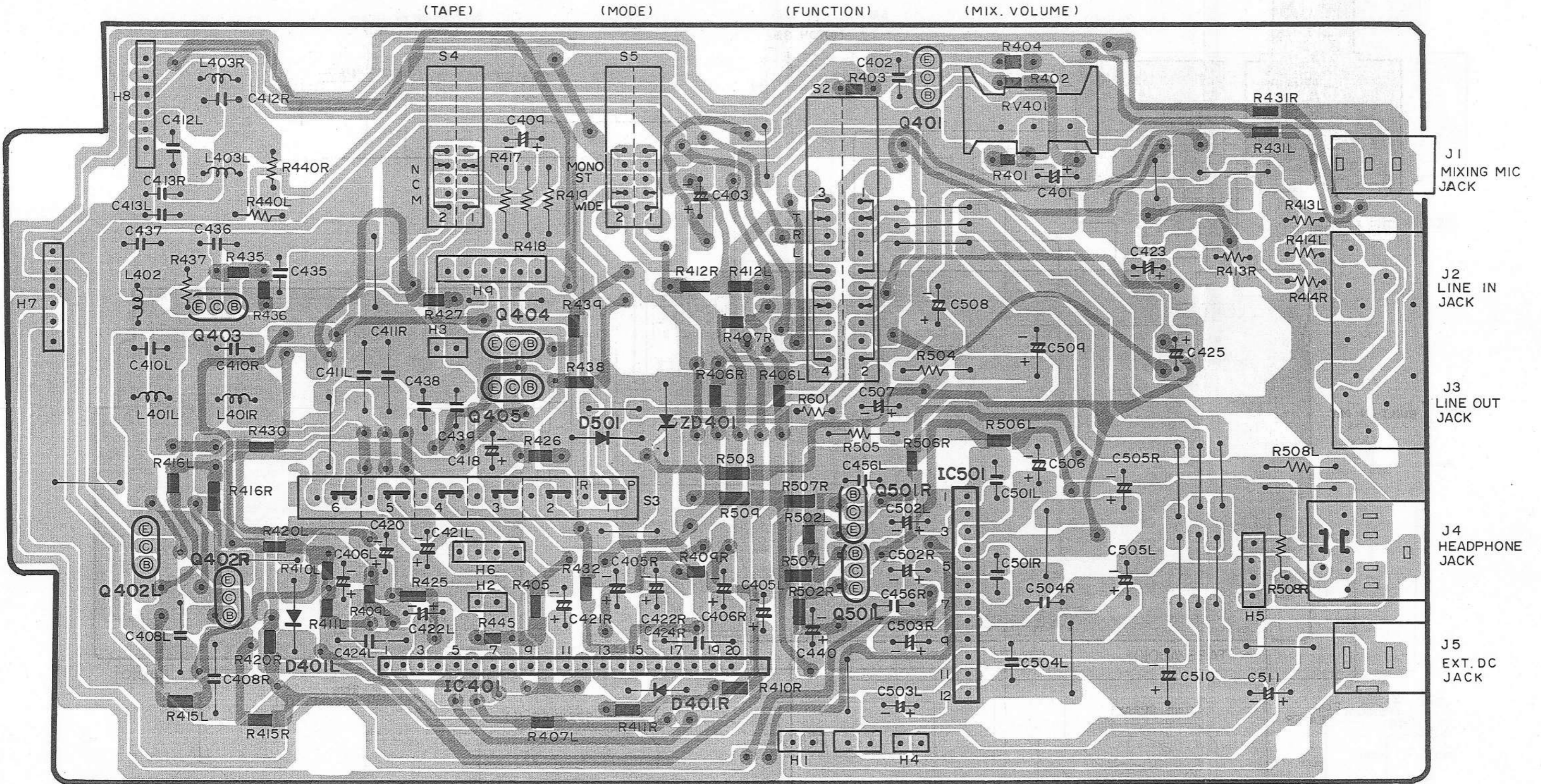
1	6.2V
2	1.5V
3	1.9V
4	1.5V
5	1.5V
6	
7	0V
8	0.2V
9	0.7V
10	1.6V
11	1.6V
12	
13	1.6V
14	1.6V
15	1.6V
16	2.7V

SCHMATIC DIAGRAM (Tape Recorder Section)





CIRCUIT BOARD DIAGRAM



■ SHOWS PRINTED RESISTORS

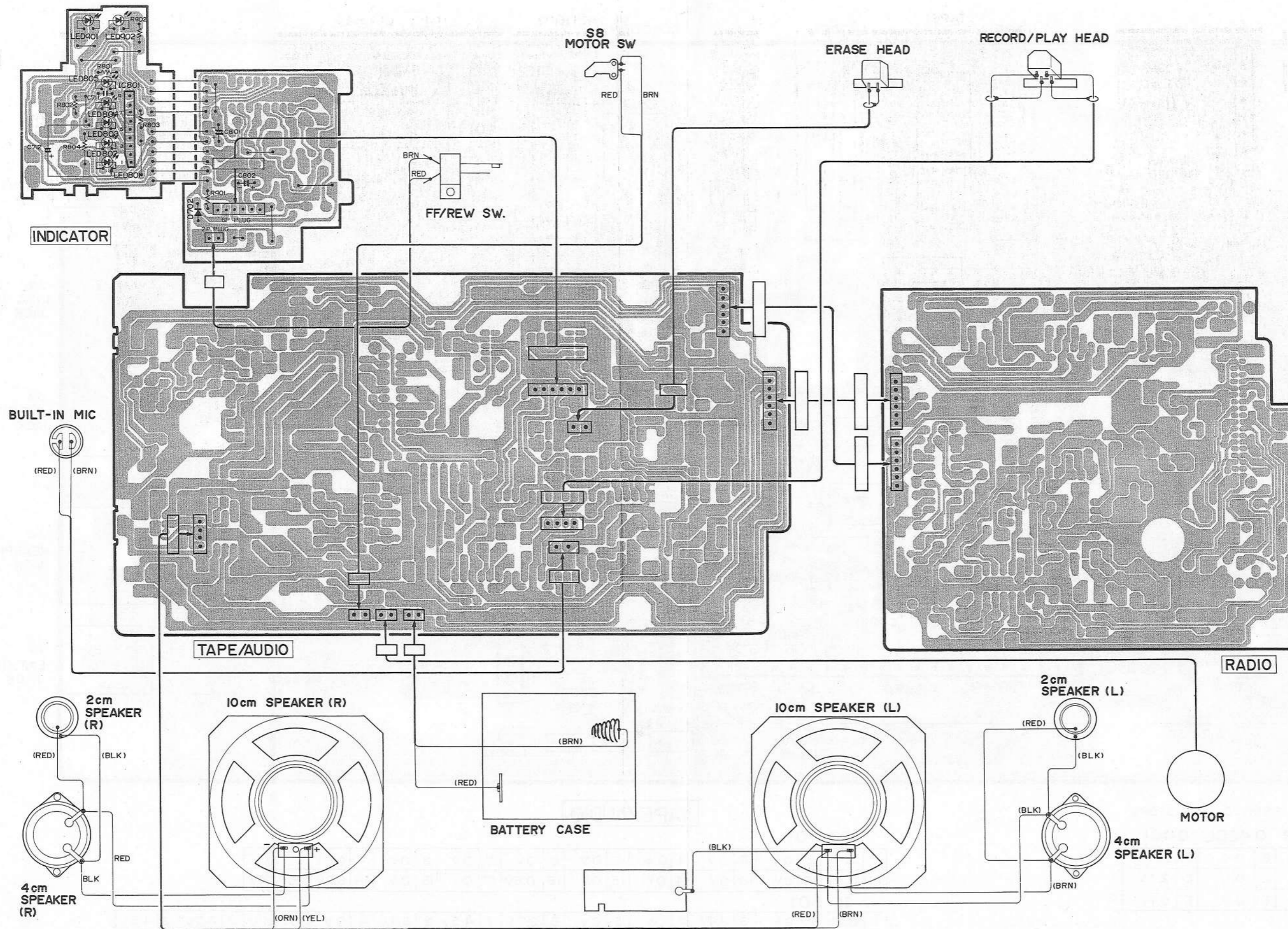
Q 402R			Q 420L			Q 401		
B	0V	B	0V	B	0.7V			
C	0V	C	0V	C	2.1V			
E	0V	E	0V	E	0.1V			

TAPE/AUDIO

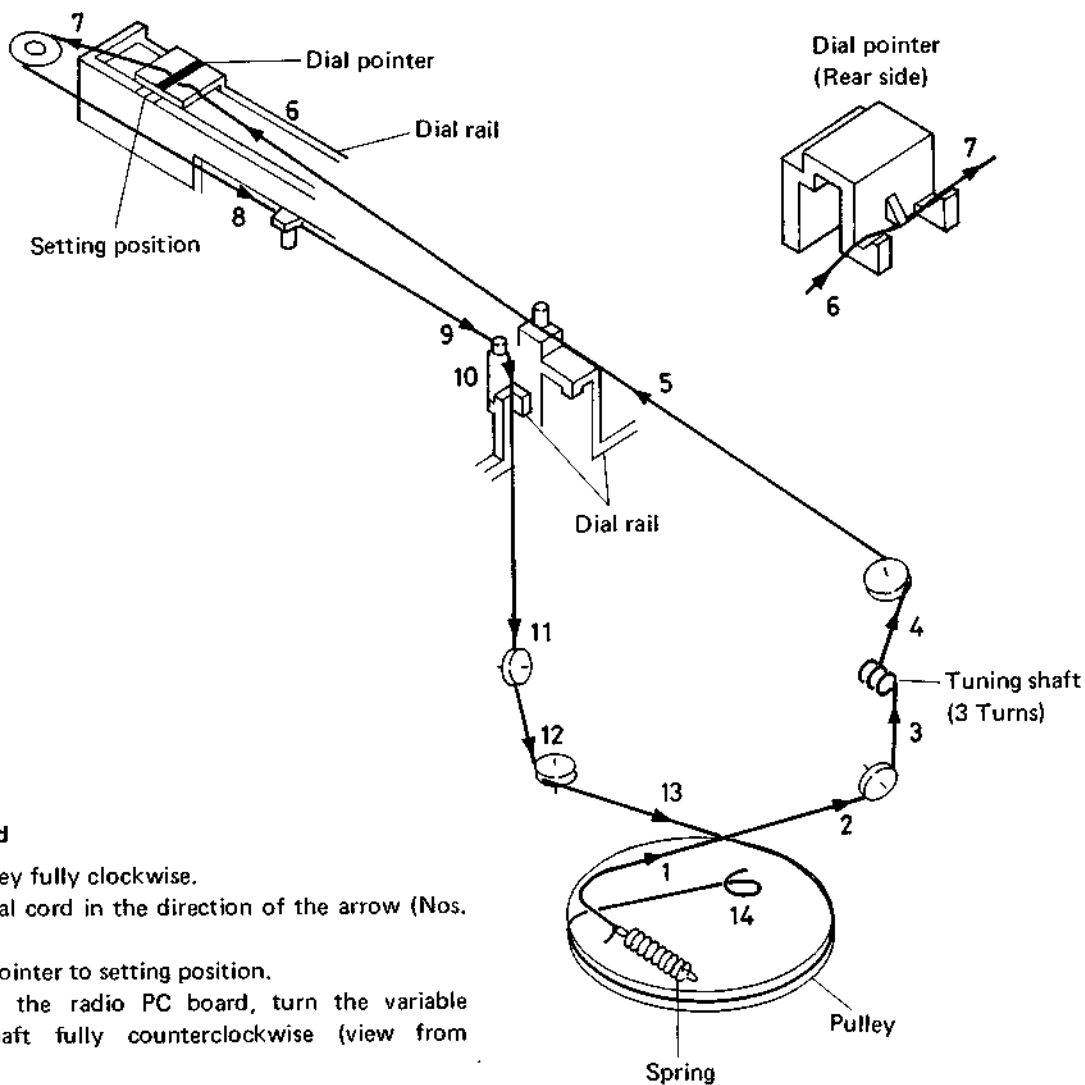
IC 401																			
1	3.4V	2	0V	3	0V	4	0.6V	5	0V	6	0V	7	0V	8	0V	9	0.6V	10	0V
11	0.6V	12	0V	13	0V	14	0V	15	0V	16	0.6V	17	0V	18	0V	19	6.2V	20	3.4V

IC 501																							
1	0.7V	2	0V	3	3.9V	4	0V	5	0V	6	0.7V	7	4.5V	8	8.7V	9	0V	10	9.0V	11	8.7V	12	4.5V

WIRING DIAGRAM



DIAL CORD STRINGING



Stringing Method

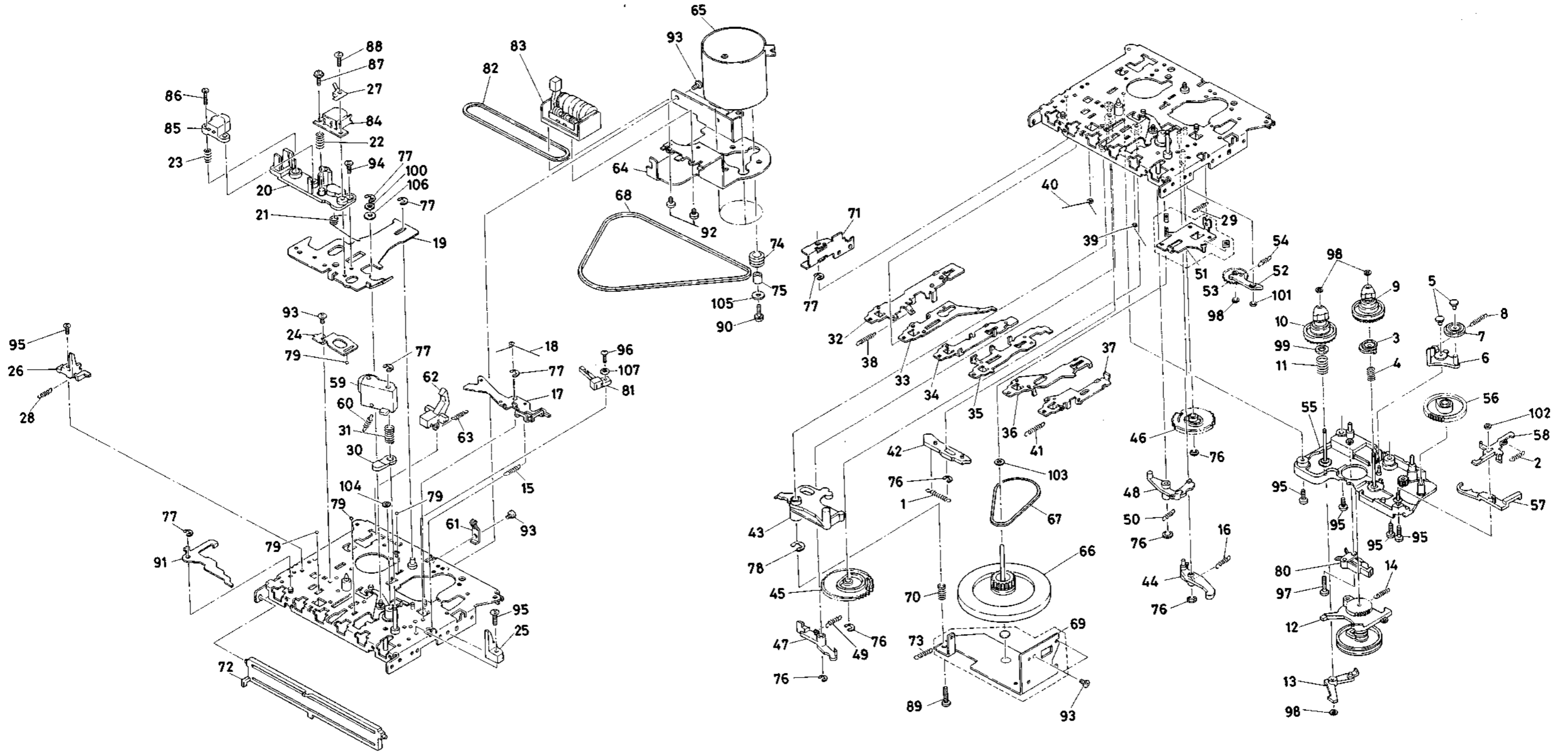
1. Turn the pulley fully clockwise.
2. String the dial cord in the direction of the arrow (Nos. 1 - 14).
3. Set the dial pointer to setting position.
4. When install the radio PC board, turn the variable capacitor shaft fully counterclockwise (view from pattern side).

REPLACEMENT PARTS LIST

SYMBOL-NO	P-NO	DESCRIPTION	SYMBOL-NO	P-NO	DESCRIPTION
MECHANISM (GT-5000)					
1	6543251	SPRING FOR RECORD ARM	15	6543281	SPRING FOR AUTO LOCK ARM
2	6543401	SPRING FOR AUTO ARM	16	6543421	SPRING FOR FF/REWIND ARM
3	6775241	AUTO CLUTCH ASSEMBLY	17	7353221	AUTO STOP PREVENTION LEVER
4	6521191	TENSION SPRING	18	6543741	SPRING FOR AUTO STOP PREVENTION LEVER
5	6774491	BUSH	19	7130031	HEAD PLATE
6	6775271	PLAY ARM	20	6775411	HEAD BASE
7	6332241	PLAY IDLER	21	6548711	HEAD BASE SPRING
8	6543231	SPRING FOR PLAY ARM	22	6521251	HEAD SPRING
9	6432431	TAKE UP REEL ASSEMBLY	23	6521221	HEAD SPRING
10	6432441	SUPPLY REEL ASSEMBLY	24	7353201	HEAD PLATE HOLDER
11	6521231	BACK TENSION SPRING	25	6775401	CASSETTE GUIDE(R)
12	6775251	FR PULLEY ARM ASSEMBLY	26	6775391	CASSETTE GUIDE(L)
13	6775291	REWIND ARM	27	7351741	EARTH PLATE
14	6543321	SPRING FOR FR PULLEY ARM	28	6543221	SPRINGS

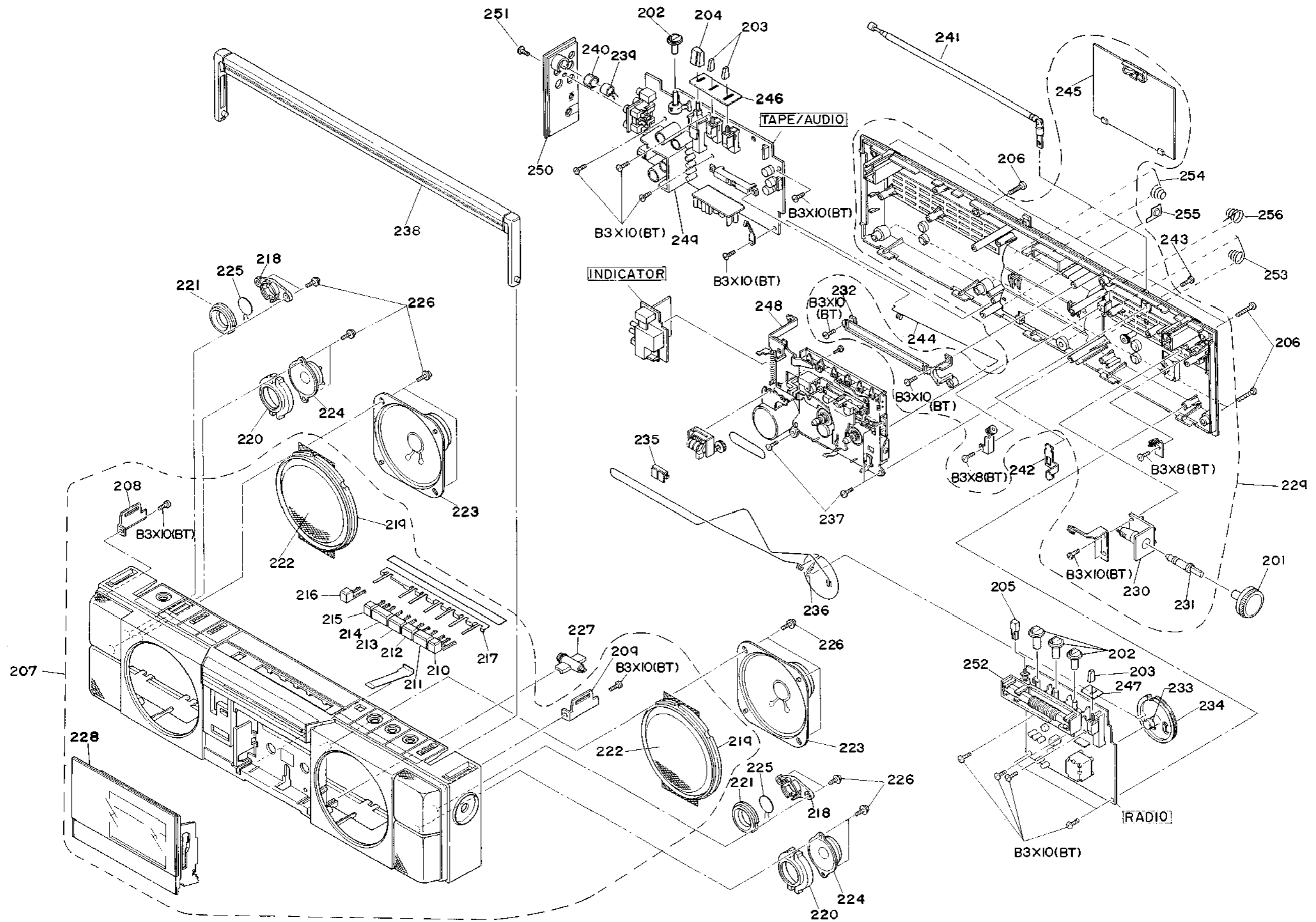
SYMBOL-NO	P-NO	DESCRIPTION	SYMBOL-NO	P-NO	DESCRIPTION
MECHANISM (GT-5000)			68	6325611	BELT
29	6543381	BRAKE SPRING	69	7353311	FLYWHEEL BRACKET ASSEMBLY
30	6775371	PAUSE CAM	70	6521211	ADJUST SPRING
31	6521201	SPRING FOR PAUSE CAM	71	7353261	RECORD LEVER
32	7353131	RECORD SLIDER	72	6775381	LOCK PLATE
33	7353141	PLAY SLIDER	73	6543411	SPRING FOR LOCK PLATE
34	7353101	REWIND SLIDER ASSEMBLY	74	6590961	MOTOR CUSHION
35	7353251	FF SLIDER	75	7353181	MOTOR RING
36	7353121	STOP SLIDER	76	7772395	E RING
37	7353111	PAUSE SLIDER ASSEMBLY	77	7774641	E RING-2.5MM
38	6543261	SPRING FOR RECORD SLIDER	78	7230903	E RING - 4MM
39	6543131	RECORD SPRING	79	0948492	BALL - 2MM
40	6543211	LEVER SPRING	80	5603671	LEAF SWITCH (SB, MOTOR SWITCH)
41	6543311	SPRING FOR PAUSE SLIDER	81	5603651	LEAF SWITCH
42	6775331	RECORD ARM	82	6355821	COUNTER BELT
43	6775351	FUNCTION ARM	83	5559611	COUNTER
44	6775311	FF/REWIND ARM	84	5449271	RECORD PLAYBACK HEAD
45	6432451	PLAY PA GEAR	85	5445501	ERASE HEAD
46	6432461	FF/REWIND PA GEAR	86	7782901	BIND SCREW-2MMX9.5MM
47	6775321	PLAY LOCK ARM	87	7782911	FAN HEAD SCREW WITH LOCKING WASHER
48	6775341	FF/REWIND LOCK ARM	88	8741108	BIND SCREW-2MMX8MM
49	6543391	SPRING FOR FUNCTION ARM	89	0741310	BIND SCREW-2.6MMX10MM
50	6543241	SPRING FOR FF/REWIND LOCK ARM	90	8650908	SCREW WITH SPRING WASHER-2.6MMX6MM
51	7353291	BRAKE PLATE ASSEMBLY	91	7353281	FR LOCK ARM
52	6775301	FF GEAR ARM	92	8781335	TAPPING SCREW 2.6MM X 5MM
53	6432421	FF GEAR	93	0671304	DT SCREW-2.6MMX4MM
54	6543311	SPRING FOR FF GEAR	94	0672304	DT SCREW-2.6MMX4MM(BLACK)
55	6775261	TURNTABLE HOLDER ASSEMBLY	95	0676308	DT SCREW-2.6MMX3MM(BLACK)
56	6432811	AUTO GEAR	96	7780683	TAPPING SCREW-2MMX6MM
57	6775311	SENSOR ARM	97	7780916	BIND TAPPING SCREW-2MMX12MM
58	6775431	AUTO STOP ARM	98	7788541	WASHER
59	6775231	PRESSURE ROLLER ARM ASSEMBLY	99	7783551	REEL WASHER
60	6543271	SPRING FOR PRESSURE ROLLER ARM	100	7788531	NYLON WASHER
61	7353211	CASSETTE HOLDER	101	7786211	POLYESTER WASHER
62	6775241	RECORD PREVENTION ARM	102	7786624	POLY SLIDER WASHER
63	6543291	SPRING FOR RECORD PREVENTION ARM	103	7787416	POLY SLIDER WASHER
64	7350491	MOTOR BRACKET	104	7786623	POLY SLIDER WASHER
65	6428571	DC MOTOR ASSEMBLY	105	8811113	WASHER - 2.6MM
66	6374351	FLYWHEEL	106	8811114	3D WASHER
67	6355831	BELT	107	8812111	WASHER-2MM

EXPLODED VIEW (Mechanism-GT-5000)



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

EXPLODED VIEW (Cabinet)



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

SYMBOL-NO	P-NO	DESCRIPTION	SYMBOL-NO	P-NO	DESCRIPTION
MISCELLANEOUS			246	7740971	SPACER
201	6284181	TUNING KNOB	247	7740961	SPACER
202	6284191	KNOB (MIX. VOL, BASS, TREBLE, VOLUME)	248	7350141	EJECT HOLDER ASSEMBLY
203	6293281	LEVER KNOB (BAND, TAPE, MODE)	249	7421981	RADIATOR PLATE
204	6293291	LEVER KNOB (FUNCTION)	250	6245281	JACK PLATE
205	6057851	PUSH BUTTON (LOUDNESS)	251	7792291	OVAL SCREW-3MMX12MM
206	7781146	RT SCREW-3MMX20MM	252	6776261	ANTENNA HOLDER
207	6037351	FRONT CASE ASSEMBLY	253	6521021	BATTERY SPRING (+, -)
208	7350131	BELT HOLDER (L)	254	6521022	BATTERY SPRING (+, -)
209	7350132	BELT HOLDER (R)	255	7776401	BATTERY TERMINAL (+)
210	6060572	BUTTON(REC)	256	6521121	BATTERY SPRING (-)
211	6060582	BUTTON(PLAY)	CAPACITORS		
212	6060592	BUTTON(REWIND)	CT152	5058191	TRIMMER 10PF
213	6060542	BUTTON(FF)	CT154	5058191	TRIMMER 10PF
214	6060552	BUTTON(STOP)	CV101-102	5052781	VARIABLE CAPACITOR
215	6060562	BUTTON(PAUSE)	CV151-152	5052781	VARIABLE CAPACITOR
216	6060602	BUTTON(EJECT)	C102	0208129	CERAMIC (RESISTOR SHAPE) 10PF+-5%
217	6536261	BUTTON SPRING	C105	0246644	CERAMIC DISC 15PF+-0.25PF, NP-0
218	6774412	SPEAKER HOLDER	C106	0246645	CERAMIC DISC CAPACITOR 5PF 0.25PF
219	6774141	SPEAKER RING (WOOFER)	C107	0246644	CERAMIC DISC 15PF+-5%
220	6774141	SPEAKER RING	C157	0208131	CERAMIC (RESISTOR SHAPE) 15PF+-5%
221	6774153	SPEAKER RING (TWEETER)	C202	0209026	CERAMIC DISC (RESISTOR SHAPE) 0.01M F+-30%
222	6661071	SPEAKER METAL	C217	0209027	CERAMIC (RESISTOR SHAPE) 0.01PF+-30%
223	5405511	SPEAKER-10CM	C412LR	0209021	CERAMIC DISC (RESISTOR SHAPE) 1500PF+-10%
224	5401221	SPEAKER-4CM	C411LR	0208141	CERAMIC DISC (RESISTOR SHAPE) 100PF +-5%
225	5419071	SPEAKER-2CM	C424LR	0209026	CERAMIC DISC (RESISTOR SHAPE) 0.01M F+-30%
226	7781132	RT SCREW	C451LR	0209025	CERAMIC DISC (RESISTOR SHAPE) 6800P F+-30%
227	6763961	GEAR DAMPER ASSEMBLY	RESISTORS		
228	6094256	CASSETTE LID ASSEMBLY	RT301	5007696	SEMI VARIABLE 5KOHM(B)
229	6037331	REAR CASE ASSEMBLY	RV401	5001181	VARIABLE RESISTOR 10KOHM(A)
230	6774131	TUNING HOLDER	RV451LR	5001172	VARIABLE RESISTOR 100KOHM(B)
231	7582021	TUNING SHAFT	RV452LR	5001173	VARIABLE RESISTOR 100KOHM(C)
232	6774111	DIAL RAIL ASSEMBLY	RV453LR	5001171	VARIABLE RESISTOR 10KOHM(3B)
233	6310162	SPRING WASHER	SEMI-CONDUCTORS		
234	6422991	PULLEY	D101	5331592	DIODE 1SS133
235	6398921	POINTER	D102	5331592	DIODE 1SS133
236	6316232	SPRING M	D301	5331592	DIODE 1SS133
237	8699412	PIND TAPPING SCREW-3MMX12MM(BLACK)	D401LR	5331592	DIODE 1SS133
238	6334791	HANDLE ASSEMBLY	D501	5331592	DIODE 1SS133
239	5421508	BUILT IN MICROPHONE	IC101	5351902	IC AN7213A
240	6570291	MIC COVER	IC201	5355441	IC AN7223
241	5752742	ROD ANTENNA	IC301	5352961	IC AN7410N
242	7350161	ANTENNA TERMINAL	IC401	5378231	IC TA3012
243	8678416	DT BIND SCREW-3MMX14MM			
244	6543461	RECORD SPRING			
245	6774182	BATTERY LID ASSEMBLY			

SYMBOL-NO	P-NO	DESCRIPTION	SYMBOL-NO	P-NO	DESCRIPTION
SEMI-CONDUCTORS			L154	5120518	MW OSCILLATOR COIL
IC501	5352141	IC HA1392	L201	5152324	CHOKE COIL 10MICROH +-10%
IC801	5355471	IC A46884	L401LR	5150571	CHOKE COIL 33MH
LED801-805	5381091	LED SEL1120R	L402	5150579	CHOKE COIL 510MICRO H
LED901	5381091	LED SEL1120R	L403LR	5150571	CHOKE COIL 33MH
LED902	5381091	LED SEL1120R	MISCELLANEOUS		
Q201	5323061	TRANSISTOR 2SC380TMD	BP101	5161551	FILTER
Q401	5322621	TRANSISTOR 2SC2320E	CF201-202	5160303	CERAMIC FILTER 10.7MHZ
Q402LR	5323261	TRANSISTOR 2SC2785	CF203	5160061	CERAMIC FILTER 455KHZ
Q403	5322213	TRANSISTOR 2SC1741R	CF204	5160381	CERAMIC FILTER 10.7MHZ
Q404-405	5323261	TRANSISTOR 2SC2785	J 1	5673381	JACK-3.5MMD (MIX. MIC.)
Q501LR	5323261	TRANSISTOR 2SC2785	J 2-3	5676301	4P PIN JACK (LINE IN/LINE OUT)
ZD201	5330711	ZENER DIODE HZ40C	J 4	5673432	JACK-3.5MMD (HEADPHONE)
ZD401	5330392	ZENER DIODE SILICON HZ6B	J 5	5672091	DC JACK
TRANSFORMERS			S 1	5604563	LEVER SWITCH (BAND)
T101	5140071	FM IF	S 2	5604551	LEVER SWITCH (FUNCTION)
T151	5152372	AM IF	S3	5623272	SLIDE SWITCH (REC./P.B.)
COILS			S 4-5	5604561	LEVER SWITCH (TAPE, MODE)
L101	5126482	FM RF	S11	5633901	PUSH SWITCH (LOUDNESS)
L102	5126278	FM OSCILLATOR COIL	FOR ACCESSARIES		
L151, 152	5117901	FERRITE ANTENNA	⚠	7092161	AC ADAPTER
L153	5123679	SW OSCILLATOR COIL			



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