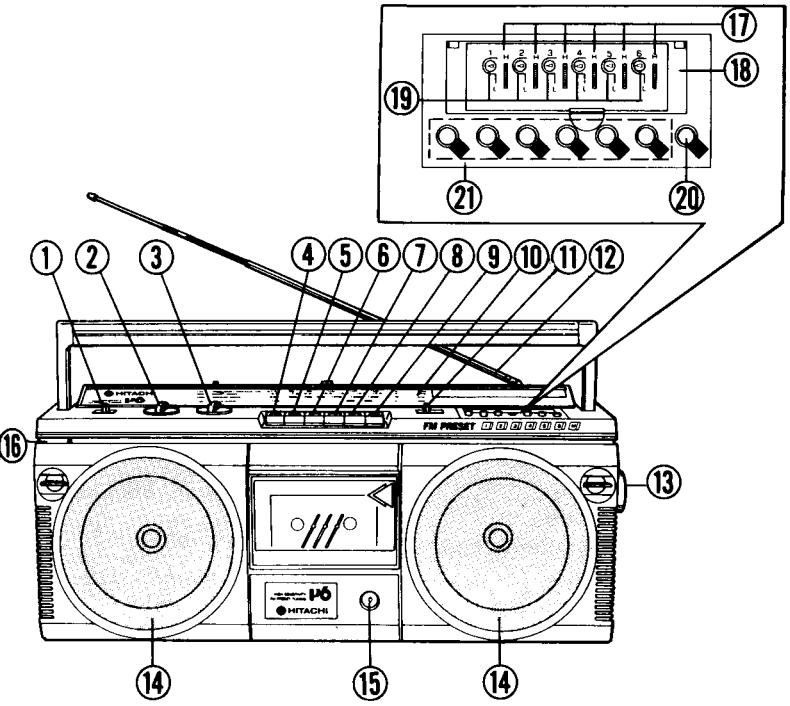
HITACHI
SERVICE MANUAL

TY	No. 532 E

TRK-P6E
E, E (BS)

TN-21V-582



CONTENTS

KEY TO ILLUSTRATIONS

① FUNCTION SELECTOR
② TONE CONTROL
③ VOLUME CONTROL
④ PAUSE BUTTON
⑤ STOP/EJECT BUTTON
⑥ FAST FORWARD BUTTON
⑦ REWIND BUTTON
⑧ PLAYBACK BUTTON
⑨ RECORD BUTTON
⑩ FM STEREO INDICATOR
⑪ BAND SELECTOR
⑫ TELESCOPIC ANTENNA (AERIAL)
⑬ TUNING KNOB
⑭ SPEAKERS
⑮ HEADPHONES SOCKET
⑯ INNER MICROPHONE (MONO)
⑰ FM PRESET TUNING KNOBS
⑱ FM PRESET TUNING KNOBS COVER
⑲ FM PRESET TUNING INDICATORS
⑳ FM MANUAL BUTTON
㉑ FM PRESET BUTTONS

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT.

RADIO CASSETTE TAPE RECORDER

August 1986 TOYOKAWA WORKS

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 ⚠ in the circuit diagram and printed wiring board.
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

GENERAL SECTION

Semiconductors: ICs: 5
Transistors: 5
Diodes: 11
LEDs: 1
Varicap: 3

Power Supply: AC: 240V 50 Hz (for E (BS))
AC: 220V, 50 Hz (for E)
DC: 12V (IEC R20 x 8 or equivalent)

Power (Mains) Consumption: 18W

Power output: 3.5W/CH x 2 (10% T.H.D. DC)

Speakers: 12 cm, 4 ohms x 2
2 cm, 300 ohms x 2

Dimensions: 50.5(W)x20.9(H)x15.6(D) cm

Weight 4.0 kg (with batteries)

TUNER SECTION

Circuit System FM/SW/MW/LW 4-band superheterodyne

Tuning Range: FM 87.5 to 108 MHz
SW: 6 to 18 MHz
MW: 530 to 1,605 kHz
LW: 150 to 285 kHz

Sensitivity: FM: 13 dB (pra.), 5 dB max.)
SW: 30 dB (pra.), 20 dB (max.)
MW: 50 dB (pra.), 40 dB (max.)
LW: 55 dB (pra.), 48 dB (max.)

Intermediate Frequency: FM: 10.7 MHz
SW/MW/LW: 465 kHz

Antennas (Aerials): FM/SW: Telescopic antenna (aerial)
MW/LW: Ferrite-core antenna (aerial)

TAPE RECORDER SECTION

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

Tape Speed: 4.75 cm/s

Recording System: AC bias, 58 kHz

Erasing System: Magnet

Frequency Response: Normal: 60 to 10,000 Hz

S/N (Signal to Noise Ratio): 40 dB

Wow & Flutter: 0.25% (WRMS)

Crosstalk: Between tracks: 60 dB
Between channels: 30 dB

Erase Ratio: 60 dB

Input sensitivity and Impedance: CD/Line-in: 600 mV, 50 kohms

Ouput Level and load Impedance: Headphones: 8 ohms-100 ohms

Distortion: 3%

Motor: DC micromotor

DISASSEMBLY

1. Removing cassette lid (Fig. 1)
Open the cassette lid, and pull out it to the front while applying a force in the direction of the arrow.

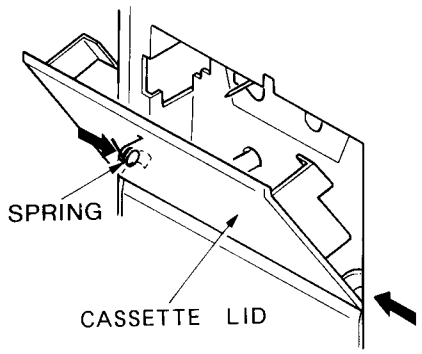


Fig. 1

2. Removing rear case (Fig. 2)
(1) Remove the battery lid.
(2) Remove 9 screws Ⓐ and remove the rear case.

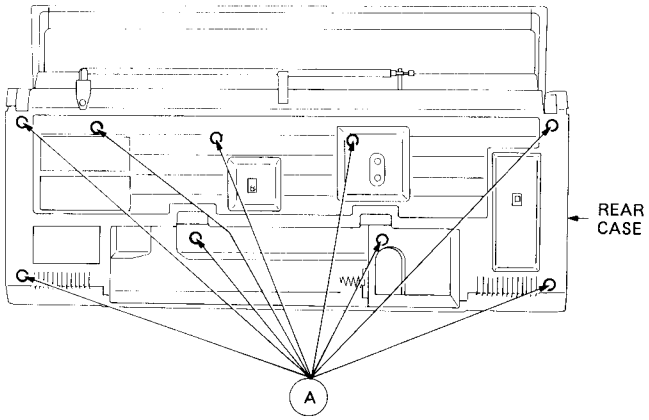


Fig. 2

3. Removing main P.W.B. (Fig. 3)
(1) Remove VOLUME and TONE control knobs.
(2) Remove the FUNCTION and BAND SELECTOR knobs, then remove the main PWB with preset switch.

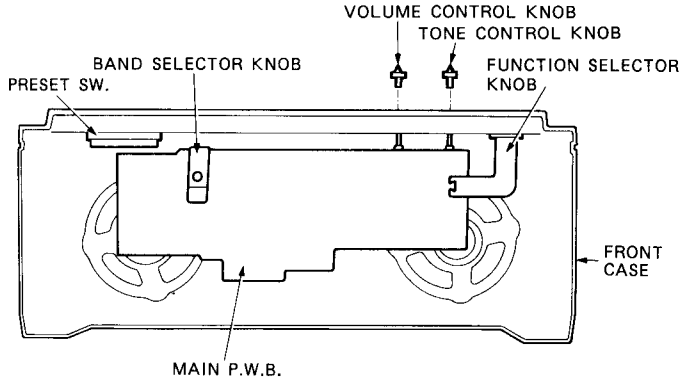


Fig. 3

4. Removing power supply P.W.B. (Fig. 4)
(1) Remove 2 screws Ⓑ.
(2) Remove power supply P.W.B. from the rear case.

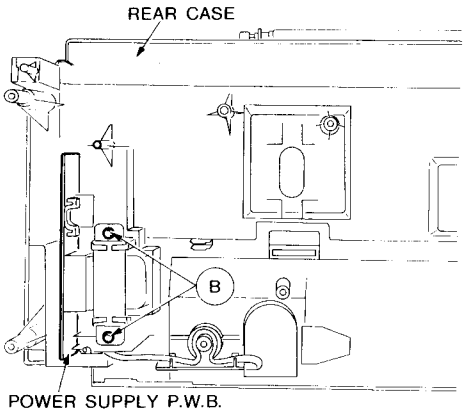


Fig. 4

5. Removing the cassette deck mechanism (Fig. 5)
Disengage 3 tabs Ⓒ and remove the cassette deck mechanism.

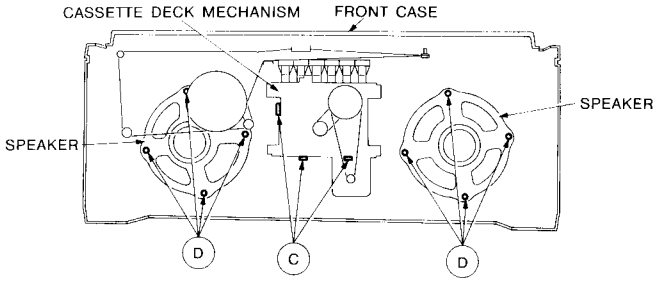


Fig. 5

6. Removing speakers (Fig. 5)
(1) Remove 8 screws Ⓓ.
(2) Remove the speakers.

ADJUSTMENT

1. Radio Section

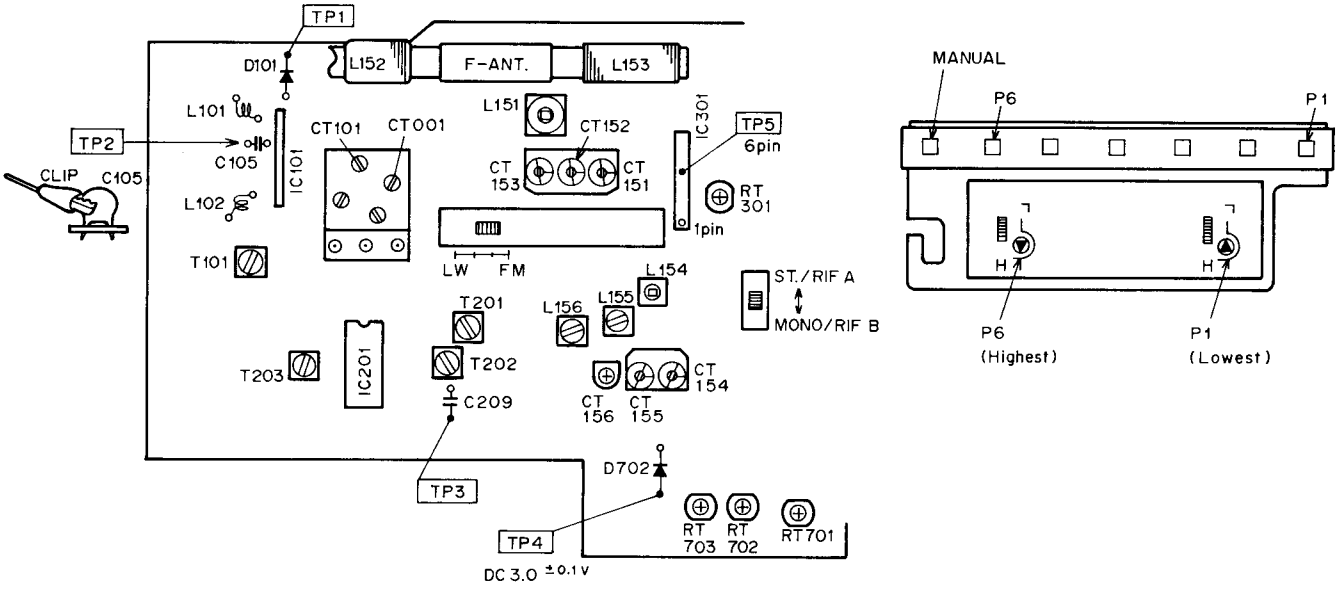


Fig. 6

Step		Adjustment Item	Measuring Instrument and Connection			Genescope or Signal Generator Frequency	Dial Pointer Position	Adjust	Reading
			Measuring Instrument	Input Terminal	Output Terminal				
1			Turn T202 fully counterclockwise.						
	(1)	FM IF	● Genescope (10.7 MHz)	TP2	TP3	10.7 MHz	Highest	T101	Note 1
	(2)	S-Curve						T202	Note 2
2		FM OSC (Covering)	● FM signal generator (400 Hz, 30% dev.) ● Oscilloscope ● VTVM	TP1 (thru FM dummy antenna) (Note 3)	TP3	See 1-2. FM Covering (Next page)			
3	(1)	FM ANT. (Tracking)				90 MHz	90 MHz	L101	Max
						106 MHz	106 MHz	CT101	
	(2)					Repeat steps (1)			
4	(1)	FM MPX. (Multiplex)	● Frequency counter	Connect a 10μF 25V electrolytic capacitor between the No. 1 pin of IC301 and the ground.	TP5	—	—	RT301	38 kHz ±50 Hz (Note 4)
5	(1)	AM IF	● Genescope (465 kHz)	Ferrite-core antenna (Note 5)	TP3	465 kHz	Highest	T201 T203	Note 6
	(2)					Repeat steps (1)			

Step		Adjustment Item	Measuring Instrument and Connection			Genescope or Signal Generator Frequency	Dial Pointer Position	Adjust	Reading
			Measuring Instrument	Input Terminal	Output Terminal				
6	(1)	LW OSC. (Covering)	● AM signal generator (400 Hz, 30% mod.) ● VTVM ● Oscilloscope	Ferrite-core antenna (Note 5)	TP3	145 kHz	Lowest	L156	Max.
	(2)					290 kHz	Highest	CT156	
	(3)					Repeat steps (1) and (2)			
7	(1)	LW ANT. (Tracking)				160 kHz	160 kHz	L153	Max.
	(2)					270 kHz	270 kHz	CT153 CT001	
	(3)					Repeat steps (1) and (2)			
8	(1)	MW OSC. (Covering)	● AM signal generator (400 Hz, 30% mod.) ● VTVM ● Oscilloscope	Ferrite-core antenna (Note 5)	TP3	515 kHz	Lowest	L155	Max.
	(2)					1650 kHz	Highest	CT155	
	(3)					Repeat steps (1) and (2)			
9	(1)	MW ANT. (Tracking)				600 kHz	600 kHz	L152	Max.
	(2)					1400 kHz	1400 kHz	CT152	
	(3)					Repeat steps (1) and (2)			
10	(1)	SW OSC. (Covering)	● AM signal generator (400 Hz, 30% mod.) ● VTVM ● Oscilloscope	TP1 (thru SW dummy antenna) (Note 7)	TP3	5.8 MHz	Lowest	L154	Max.
	(2)					18.5 MHz	Highest	CT154	
	(3)					Repeat steps (1) and (2)			
11	(1)	SW ANT. (Tracking)				6.5 MHz	6.5 MHz	L151	Max.
	(2)					16 MHz	16 MHz	CT151	
	(3)					Repeat steps (1) and (2)			

1-2. FM Covering

Step			Signal Generator Frequency	Preset CH. and Dial Pointer Position	Voltage of TP4	Adjust	Reading	Note
1		Preset Covering	—	—	3.0 V ± 0.1	RT703	DC Volt meter	*1 Connect the DC volt meter to TP4
2			*2 See to ①②	P1 ON	—	Vol. – P1	TP3 MAX	Fix the Vol. – P1 after searching lowest frequency.
3			*2 See to ③④	P6 ON	—	Vol. P6		Fix the Vol. – P6 after searching highest frequency.
4			87.5 MHz	P1 ON	—	L102		
5	(1)		108 MHz	P6 ON	—	RT701		
	(2)		—		3.0 V ± 0.1	RT703		
	(3)		Repeat steps (1) and (2)					
6	(1)	Manual Covering	87.5 MHz	Manual ON Dial Pointer Lowest	—	RT702	TP3 MAX	
	(2)		—		3.0 V ± 0.1	RT703		
	(3)		Repeat steps (1) and (2)					

*1: Please use high internal impedance DC volt meter for measuring the voltage of TP4.

*2: How to adjust the Vol. – P1 (Lowest) and Vol. – P6 (Highest).
① Set the Vol. – P1 about lowest and receive the signal from Signal Generator.
② Adjust and search the lowest frequency so as to change the Vol. – P1 and the Signal Generator frequency.
③ Set the Vol. – P6 about highest and receive the signal from Signal Generator.
④ Adjust and search the highest frequency so as to change the Vol. – P6 and the Signal Generator frequency.

Note:

1. Feed in a weak signal to TP2 from the genescope. Adjust T101 for maximum gain and the waveform indicated in Figure 7. If the center of the waveform cannot be lined up on the marker, adjust the right/left balance.

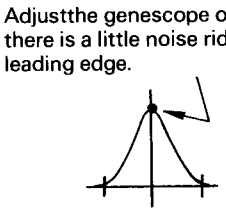


Fig. 7

2. Use the T202 core to from the S-curve shown in Figure 8. Adjust the symmetry of A and B about point C for linearity.

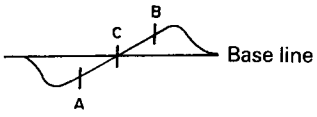
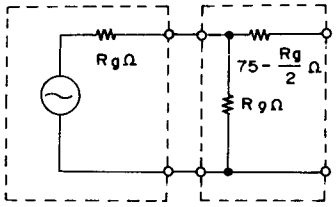


Fig. 8

3. FM dummy antenna shows Figure 9.



Rg: SG's output impedance

Fig. 9

4. Connect the frequency counter to TP5 and connect a 330 kΩ resistor parallel with the frequeny counter.

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

6. Feed in a weak signal from the genescope. Adjust T201, T203 for maximum gain and the waveform of Figure 10.

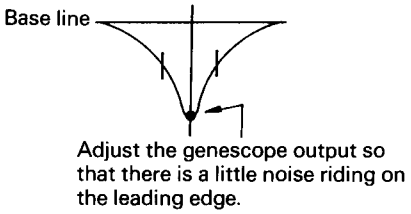
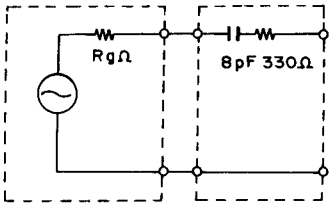


Fig. 10

7. SW dummy antenna shows Figure 11.



Rg: SG's output impedance

Fig. 11

2. Tape Recorder Section

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

Step	Adjustment Item	Measuring Instrument & Connection			Check Tape	Mode	Adjust	Reading
		Measuring Instrument	Input Terminal	Output Terminal				
1	Tape speed	● Frequency counter	—	Speaker terminal (4Ω load)	Tape speed adjustment tape (3 kHz)	Playback	Semivariable resistor in the motor (Fig. 12)	3 kHz ± 20 Hz (Note 1)
2	Head azimuth	● VTVM	—	Speaker terminal (4Ω load)	Head azimuth adjustment tape(10 kHz)	Playback	Azimuth adjusting screw	Output max. (Note 2)

Note:

1. Adjsut 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.

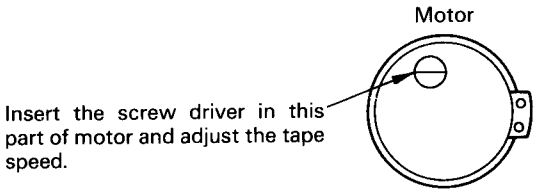


Fig. 12

INSPECTION OF MECHANISM

Item	Checking item		Reference value	Remarks
1	Pressure of pressure roller		300 – 500g	Note
2	Take-up torque		30 – 60 g·cm	
3	Fast forward/Rewind torque		50 g·cm or more	
4	Auto-Stop sensor operation force		40 – 75 g	
5	Brake torque		15 g·cm or more	Measured in stop mode
6	Back tension torque	Take-up	1 – 6 g·cm	
		Supply	2 – 6 g·cm	
7	Flywheel thrust gap		0.05 – 0.5 mm	
8	Button operation force	Play button	1.7 kg or less	
		FF button	1.0 kg or less	
		Rewind button	1.0 kg or less	
		Eject button	1.0 kg or less	
		Record button	1.0 kg or less	
		Pause button	1.5 kg or less	

Note:
Set this unit in the playback mode and press the pressure roller in the direction of the arrow using a fan type tension gauge, and measure the pressure when the pressure roller is released form the capstan.

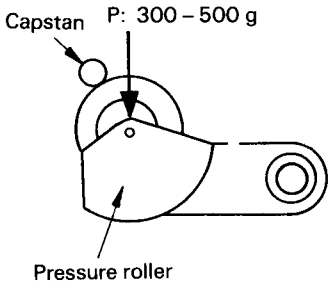


Fig. 13

LUBRICATION

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 point		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)

DIAL CORD STRINGING

Stringing method

- String the dial cord to each rollers according to the order from ① to ⑧ after turned the pulley to the end of clockwise direction.

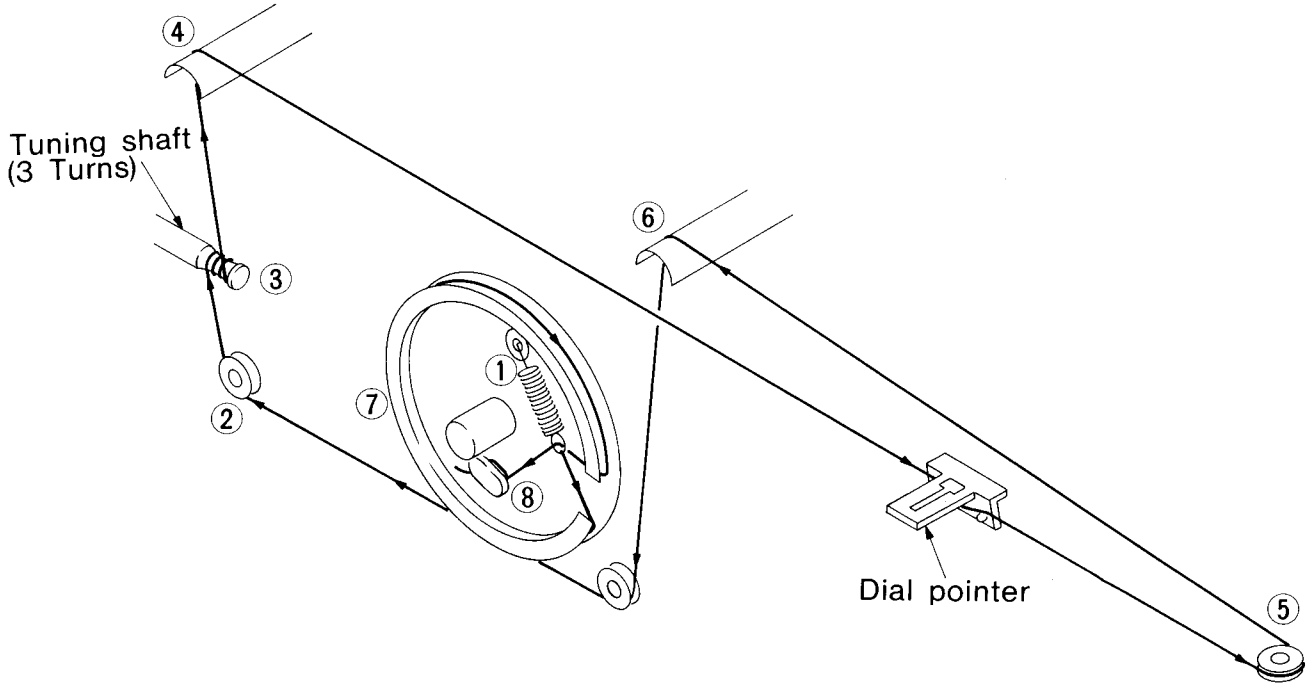
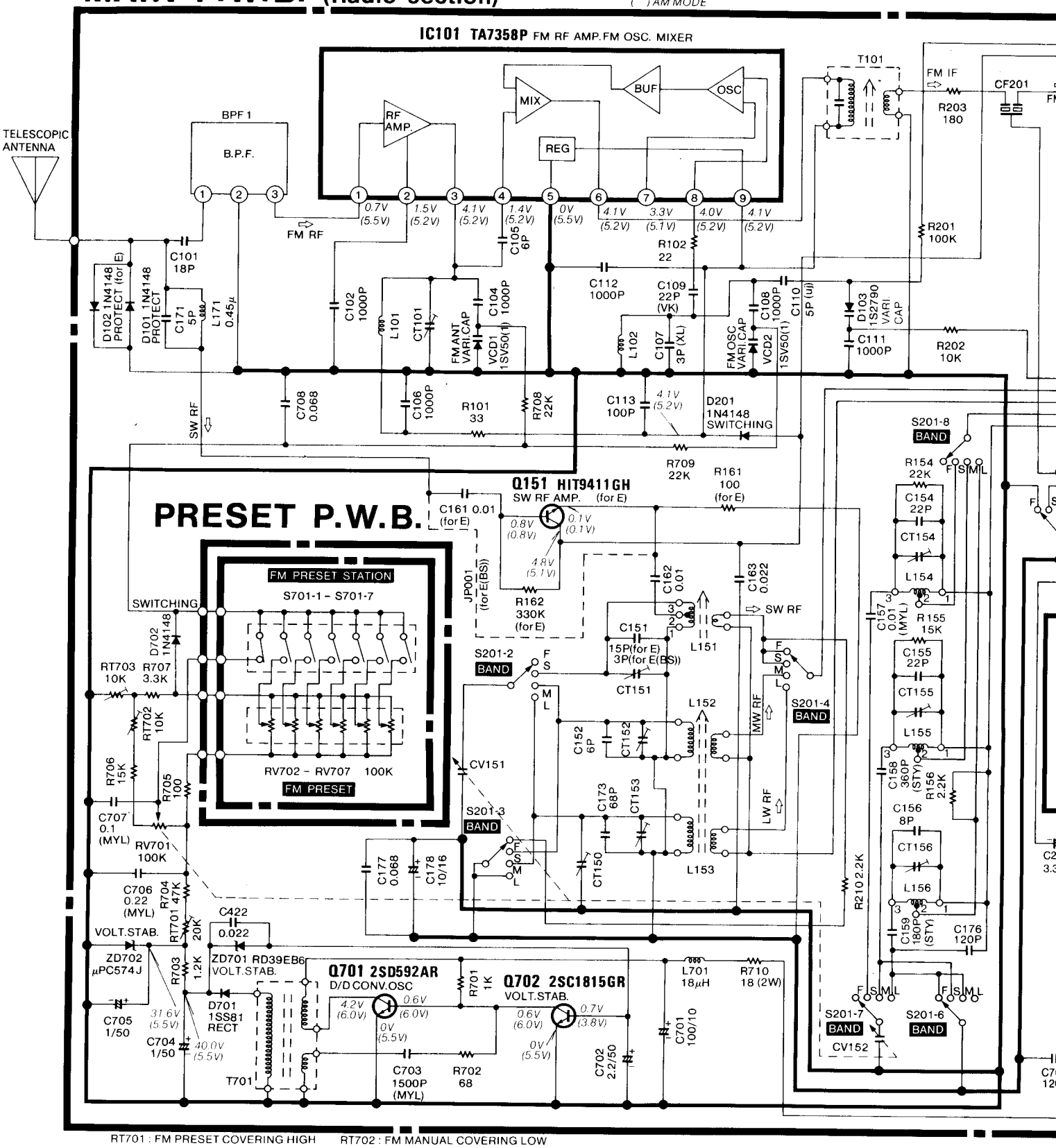


Fig. 14

CIRCUIT DIAGRAM

CAUTI
Use the e
when the

MAIN P.W.B. (Radio section)



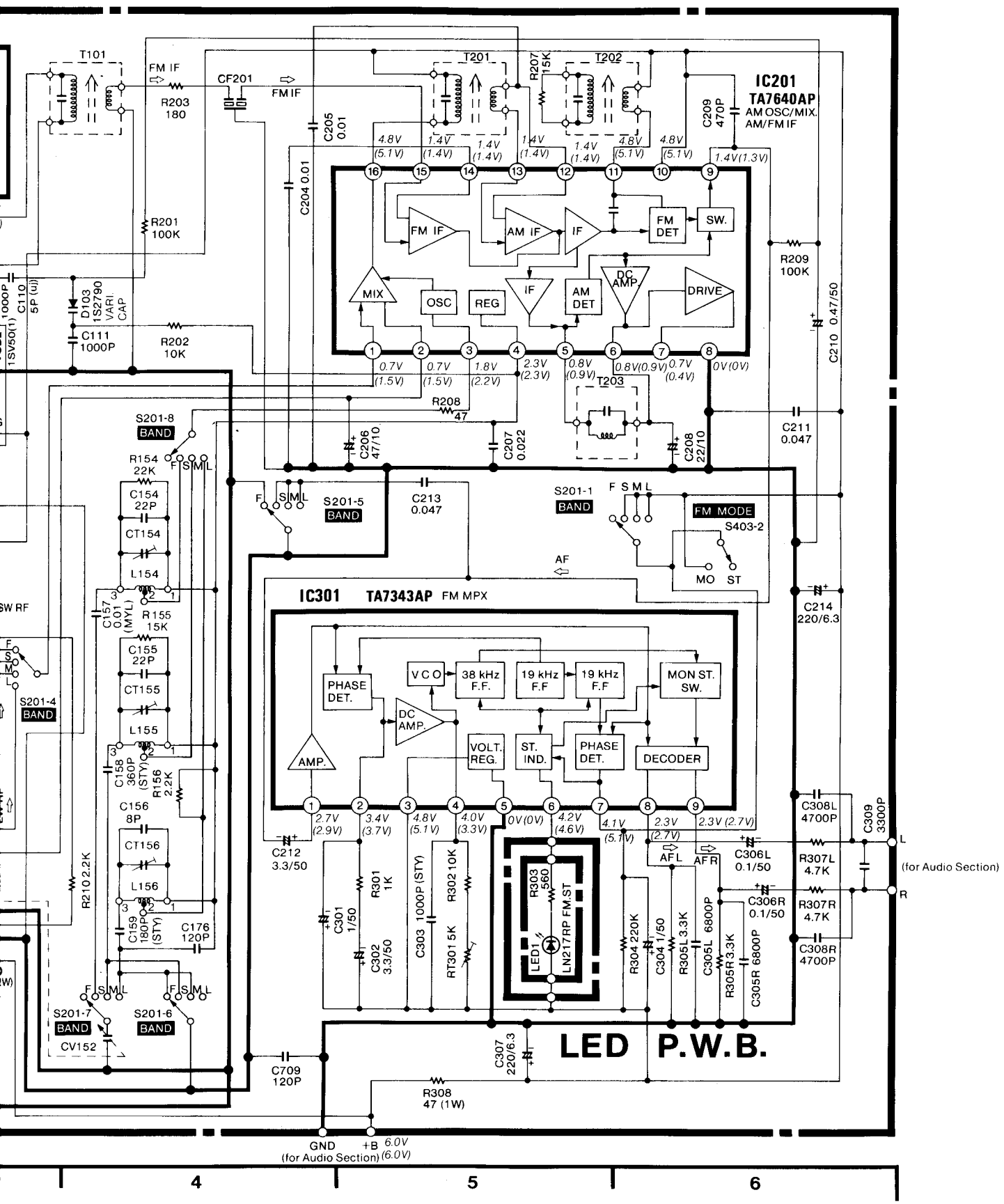
RT701 : FM PRESET COVERING HIGH RT702 : FM MANUAL COVERING LOW
RT703 : FM PRESET COVERING LOW

1 2 3 4

CAUTION

Use the electrolytic capacitors with explosion-proof valve when the diameter of them is more than 10 mmϕ.

※: Axial lead cylindrical ceramic capacitor

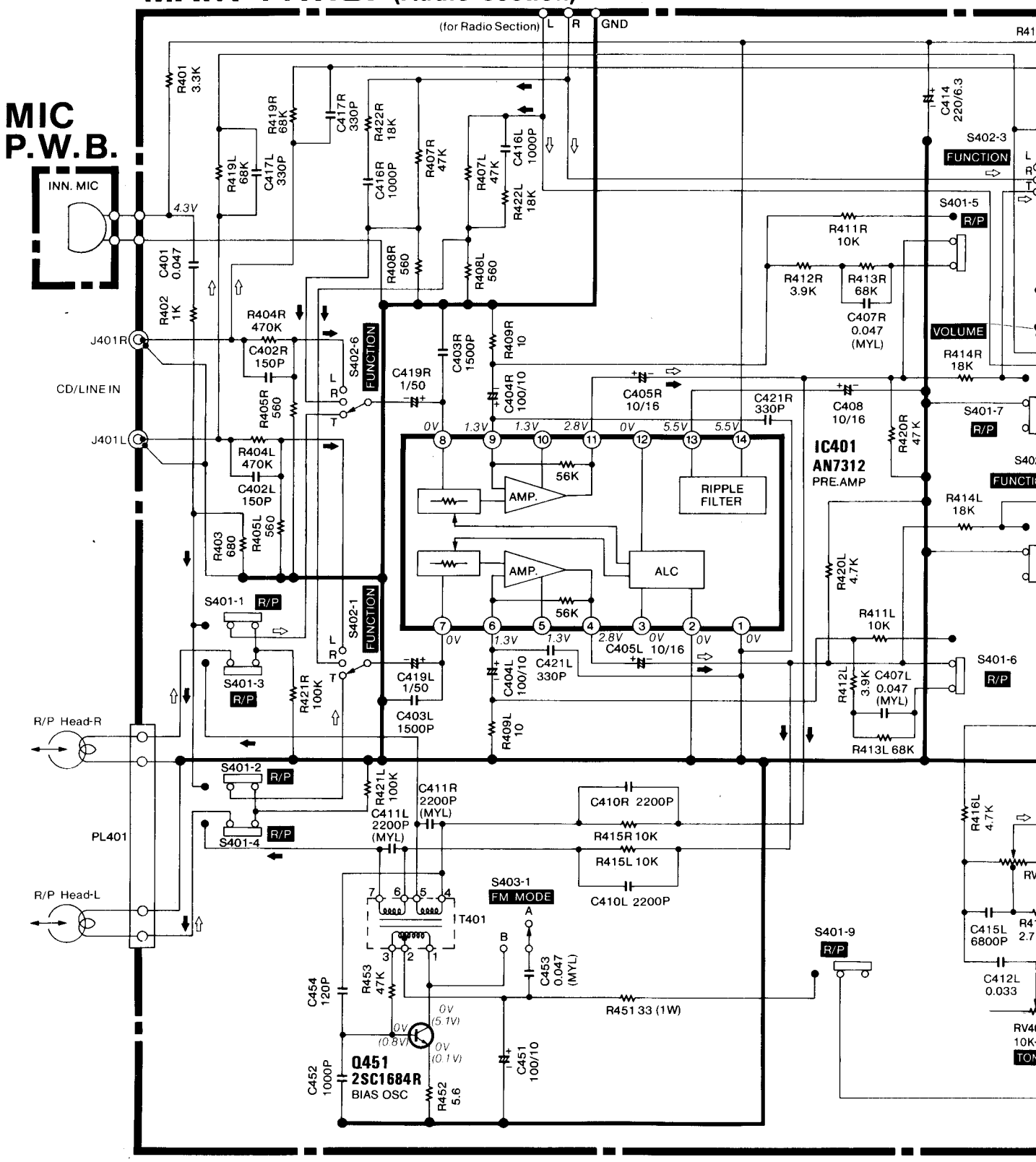


CIRCUIT DIAGRAM

Signal: ⇨ PLAY, MONITOR ➡ REC
Voltage: PLAY (REC)

CAUTIO
Use the ele
when the di

MAIN P.W.B. (Audio section)



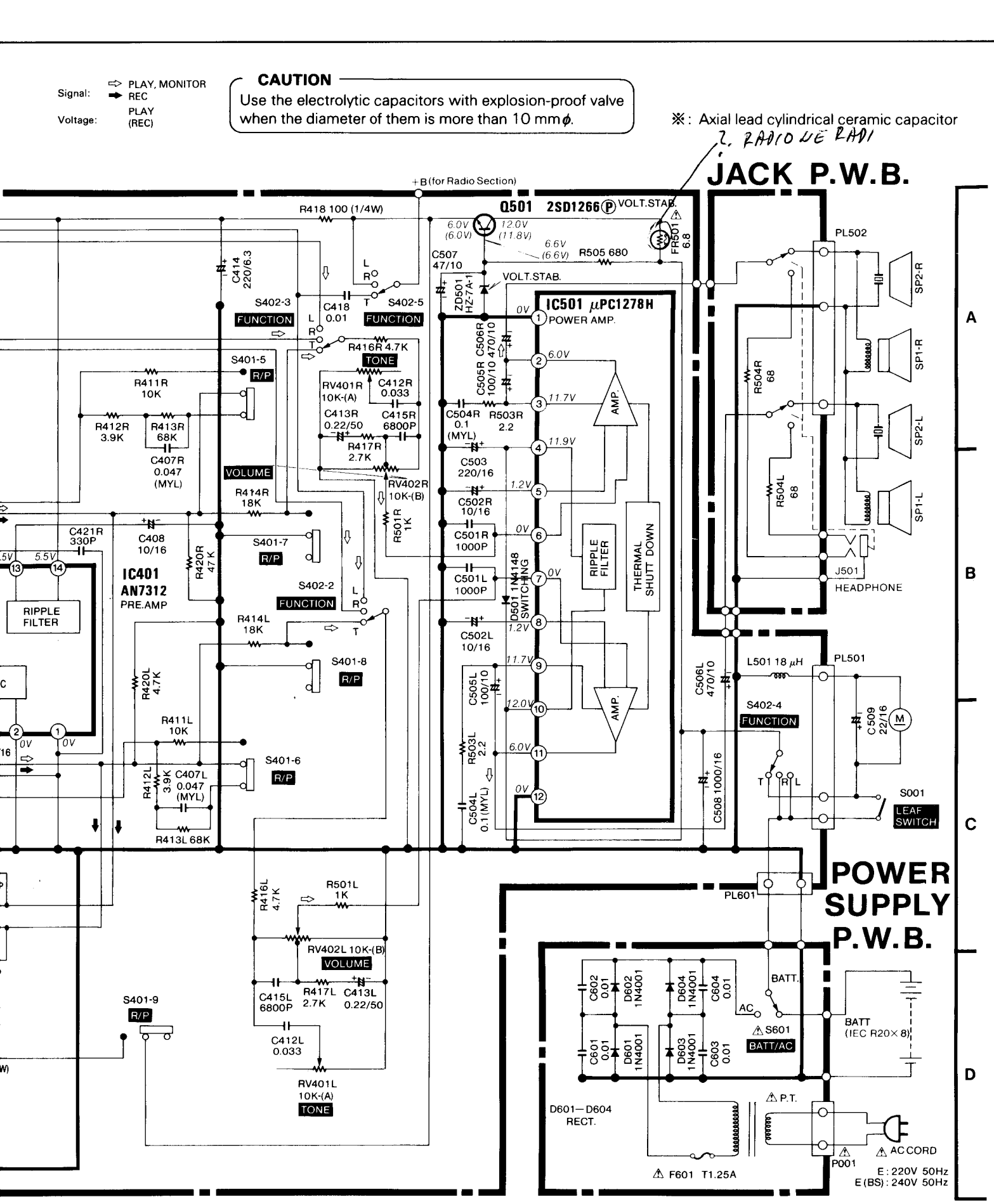
Signal: ⇨ PLAY, MONITOR ➡ REC

Voltage: PLAY (REC)

CAUTION

Use the electrolytic capacitors with explosion-proof valve when the diameter of them is more than 10 mmϕ.

※: Axial lead cylindrical ceramic capacitor



PRINTED WIRING BOARD

※: Axial lea

IC101		
	FM	AM
1	0.7V	5.5V
2	1.5V	5.2V
3	4.1V	5.2V
4	1.4V	5.2V
5	0V	5.5V
6	4.1V	5.2V
7	3.3V	5.1V
8	4.0V	5.2V
9	4.1V	5.2V

IC201			
	FM	AM	FM	AM
1	0.7V	1.5V	9	1.4V	1.3V
2	0.7V	1.5V	10	4.8V	5.1V
3	1.8V	2.2V	11	4.8V	5.1V
4	2.3V	2.3V	12	1.4V	1.4V
5	0.8V	0.9V	13	1.4V	1.4V
6	0.8V	0.9V	14	1.4V	1.4V
7	0.7V	0.4V	15	1.4V	1.4V
8	0V	0V	16	4.8V	5.1V

IC301		
	FM	AM
1	2.7V	2.9V
2	3.4V	3.7V
3	4.8V	5.1V
4	4.0V	3.3V
5	0V	0V
6	4.2V	4.6V
7	4.1V	5.1V
8	2.3V	2.7V
9	2.3V	2.7V

IC401			
1	0V	8	0V
2	0V	9	1.3V
3	0V	10	1.3V
4	2.8V	11	2.8V
5	1.3V	12	0V
6	1.3V	13	5.5V
7	0V	14	5.5V

IC501			
1	0V	7	0V
2	6.0V	8	11.2V
3	11.7V	9	11.7V
4	11.9V	10	12.0V
5	1.2V	11	6.0V
6	0V	12	0V

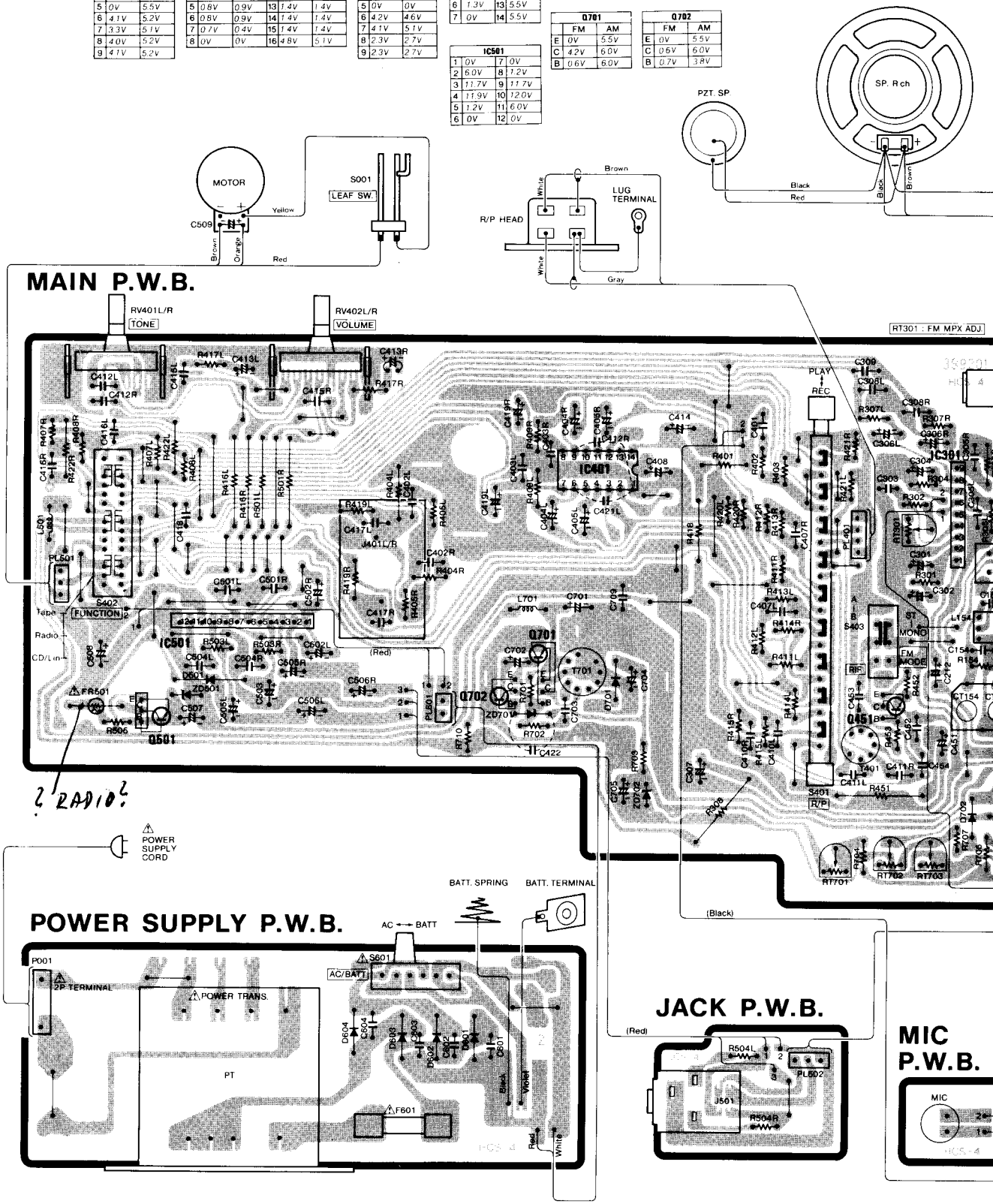
Q151		
	FM	AM
E	0.1V	0.1V
C	4.8V	5.1V
B	0.8V	0.8V

Q451		
	PLAY	REC
E	0V	0.1V
C	0V	5.1V
B	0V	0.8V

Q501		
	PLAY	REC
E	6.0V	6.0V
C	12.0V	11.8V
B	6.6V	6.6V

Q701		
	FM	AM
E	0V	5.5V
C	4.2V	6.0V
B	0.6V	6.0V

Q702		
	FM	AM
E	0V	5.5V
C	0.6V	6.0V
B	0.7V	3.8V

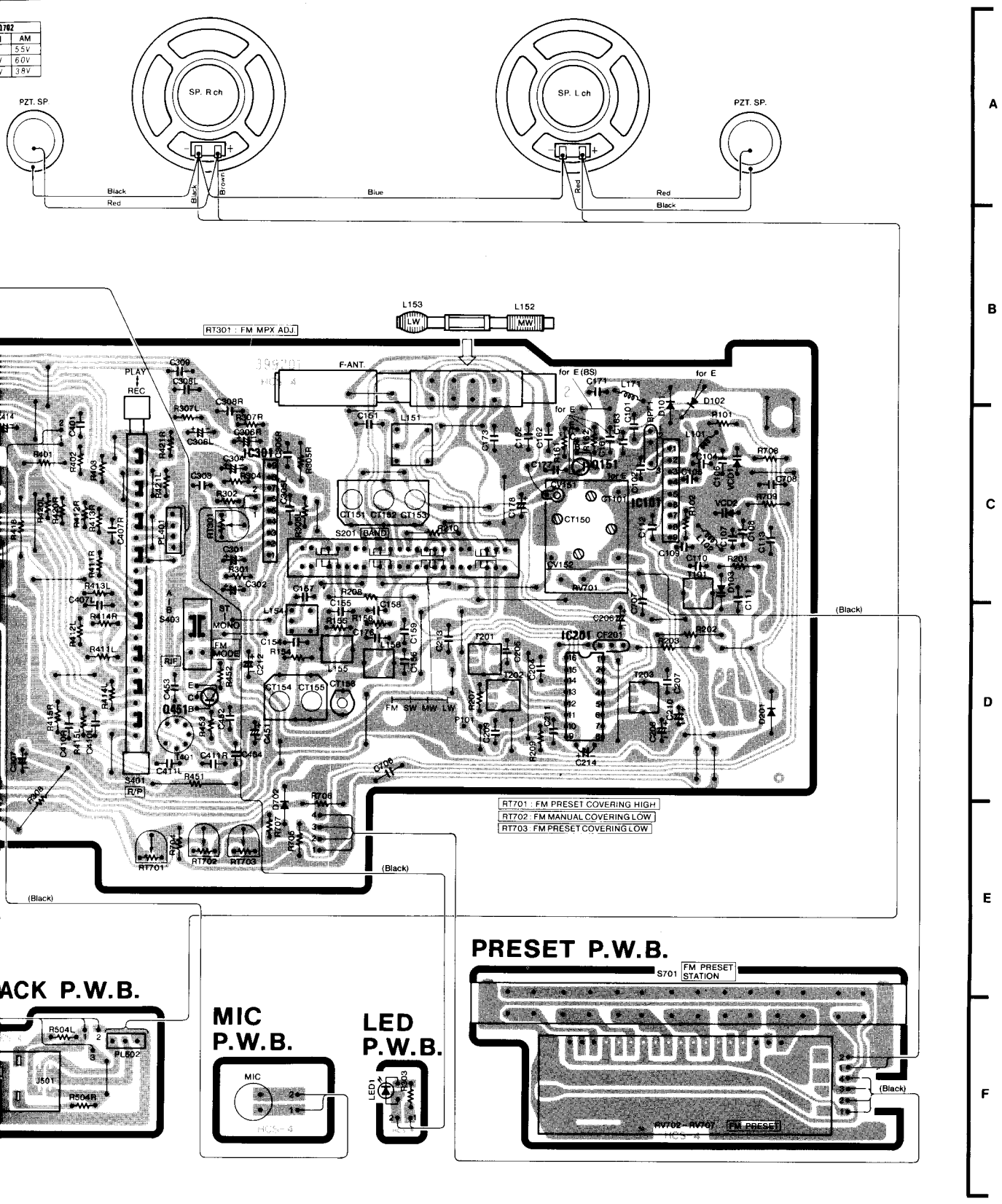


※: Axial lead cylindrical ceramic capacitor

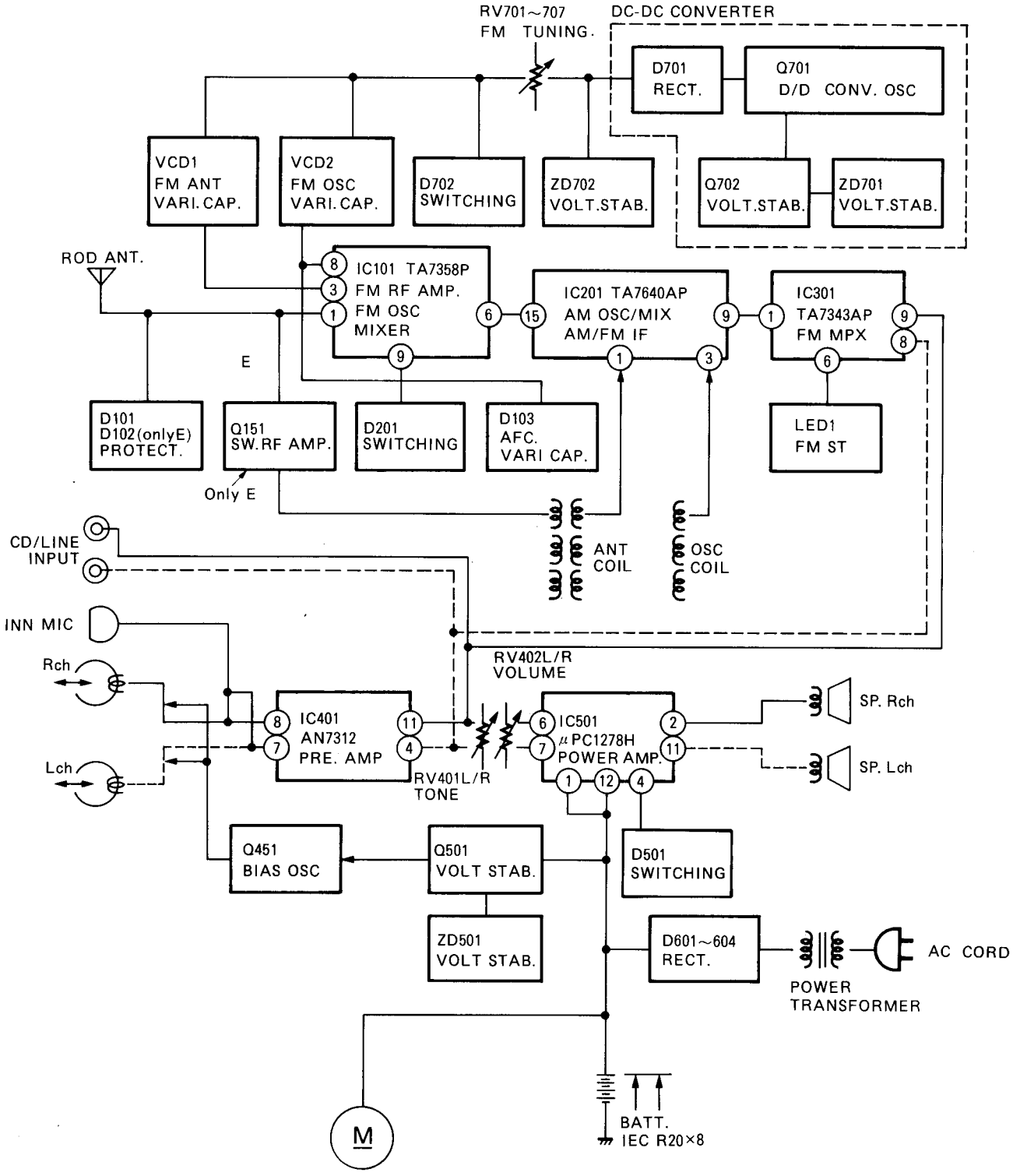
Q461	
Y	REC
	0.1V
	5.1V
	0.8V

Q501		
	PLAY	REC
E	6.0V	6.0V
C	12.0V	11.8V
B	6.6V	6.6V

Q702	
	AM
	5.5V
	6.0V
	3.8V



BLOCK DIAGRAM

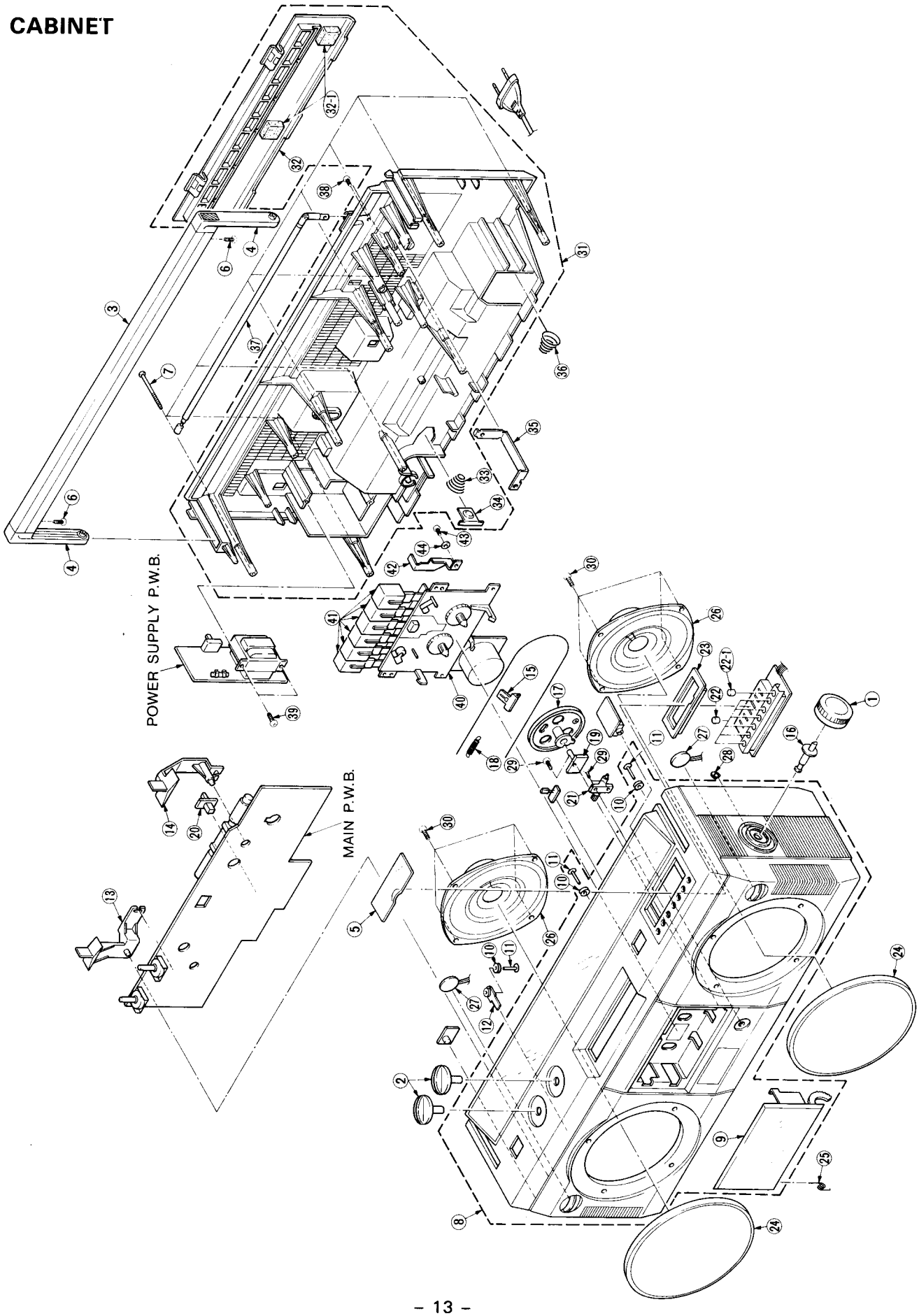


EXPLO

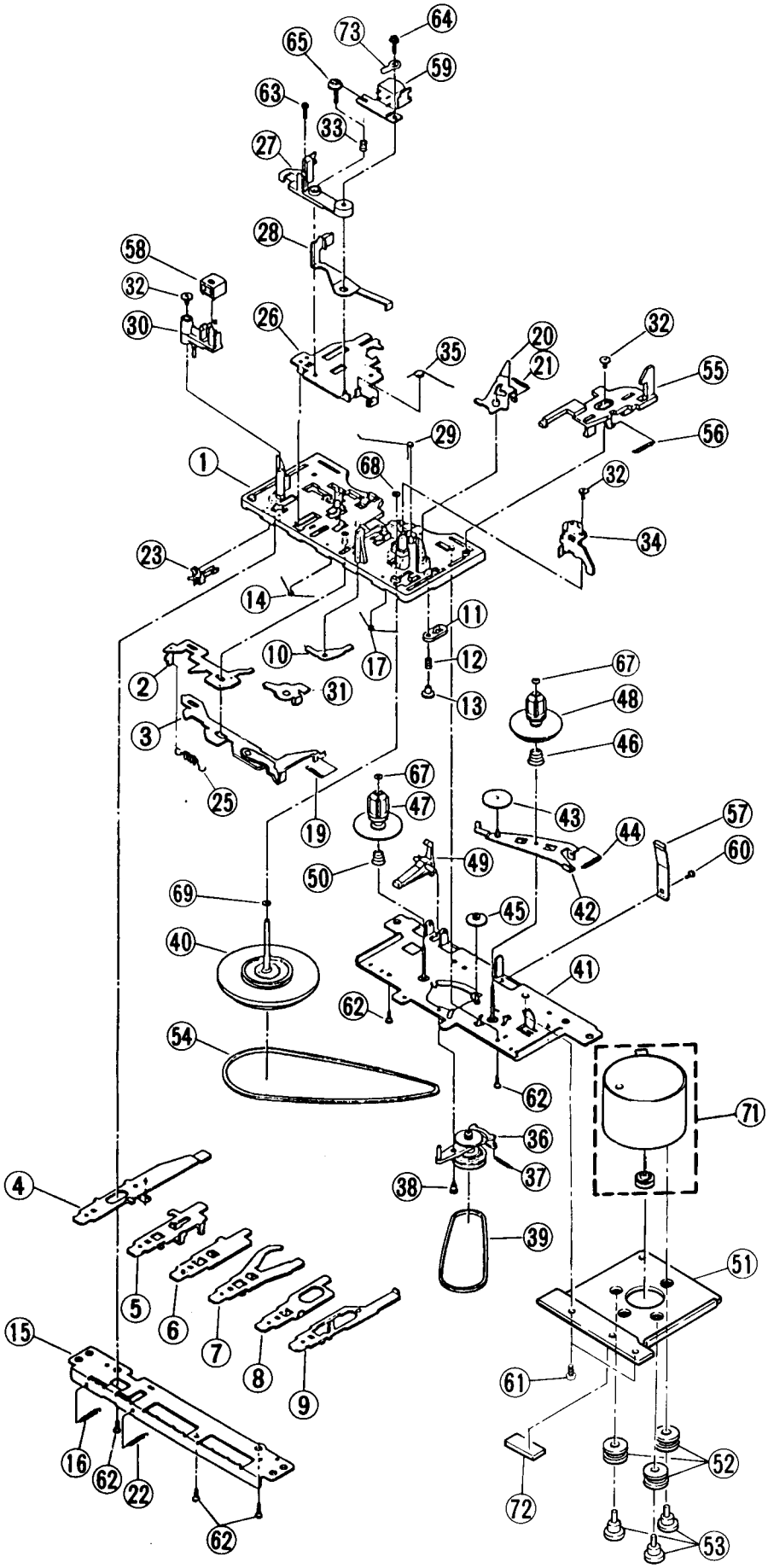
● CABIN

EXPLODED VIEW

● CABINET



● Cassette Chassis



REPLAC

● Cabinet

ITEM NO.	PART NO.
	for FI
1	33031
	33031
2	38014
	38014
3	38017
	38017
	38017
4	38014
	38014
	38014
5	38015
6	45778
7	45778
	for FRON
8	40403
	40403
	40403
9	38015
10	39342

REPLACEMENT PARTS LIST

● Cabinet

ITEM NO.	PART NO.	DESCRIPTION
	for FINAL ASSEMBLY	
1	3303181	Knob 38 (for Black and Red)
	3303184	Knob 38 (for White)
2	3801491	Knob 28 (for Black, Red)
	3801492	Knob 28 (for White)
3	3801771	Handle (for Black)
	3801772	Handle (SRM-144) (for White)
	3801773	Handle (for Red)
4	3801461	Handle arm (for Black)
	3801462	Handle arm (for White)
	3801463	Handle arm (for Red)
5	3801511	Preset lid
6	4577832	Screw, 3x10 BT flat head
7	4577818	Screw, bind tapping 3x50
	for FRONT CASE ASSEMBLY	
8	4040301	Front case assembly (Black)
	4040302	Front case assembly (White)
	4040303	Front case assembly (Red)
9	3801581	Cassette lid
10	3934271	8 roller
11	4577661	Roller pin
12	3801571	Roller holder
13	3801531	Function lever (for Black and Red)
	3801532	Function lever (for White)
14	3801541	Band lever (for Black and Red)
	3801542	Band lever (for White)
15	3801551	Pointer
16	4594823	Tuning shaft
17	3801761	Pulley 100
18	3340321	Spring M
19	3801561	Pulley holder
20	3801501	Select knob
21	3970221	Gear damper
22	3801521	PR knob (for Black and Red)
	3801523	PR knob (for white)
22-1	3801522	PR knob
23	3801471	Preset holder
24	3801591	Speaker grille (for Black and white)
	3801592	Speaker grille (for White)
25	3368265	Lid spring
26	2403841	Speaker 12
27	2403353	Speaker, piezo tweeter
28	4418013	4 E ring
29	8691410	Screw, 3x10 BT bind head
30	4578972	3x10 BT flange screw
	for REAR CASE ASSEMBLY	
31	4040321	Rear case assembly (for E) (Black)
	4040322	Rear case assembly (for E) (White)
	4040323	Rear case assembly (for E) (Red)
	4040325	Rear case assembly (for E(BS)) (Black)
	4040326	Rear case assembly (for E(BS)) (White)
	4040327	Rear case assembly (for E(BS)) (Red)
32	3973501	Battery lid (for E) (Black) (for E(BS)) (Black)
	3973504	Battery lid (for White)
	3973505	Battery lid (for Red)
32-1	3610078	Cushion
33	3369849	Spring A
34	4436665	Terminal
35	4468601	ANT bracket
36	3369781	Battery spring
37	2758231	Telescopic antenna
38	8744412	Screw, bind head 3x12
39	4578976	Screw, 3x20 BT bind
	for CHASSIS ASSEMBLY	
40	2588831	Mecha. assembly TN-21-582
41	3801481	Cassette button (for Black and Red)
	3801482	Cassette button (for White)
42	4468661	REC plate
43	4578281	2.6x4 screw
44	8815113	2.6 lock washer

REPLACEMENT PARTS LIST

CD.....Ceramic discal EL..... Electrolytic ST..... Styrol ME..... Metal CO..... Composition
CC..... Cylindrical ceramic MF ..... Mylar, film CF ..... Carbon film MO..... Metal, oxide FR ..... Fuse resistor

SYMBOL NO.	PART NO.	DESCRIPTION
CAPACITORS		
C101	0208666	CD 18pF ±0.5% 50V
C102	0244101	CD 1000pF ±10% 50V
C104	0244101	CD 1000pF ±10% 50V
C105	0248646	CD 6pF ±0.5pF 50V
C106	0244101	CD 1000pF ±10% 50V
C107	1249526	CD 3pF ±0.5pF 50V
C108	0244101	CD 1000pF ±10% 50V
C109	1241884	CD 22pF ±5% 50V
C110	0248465	CD 5pF ±5pF 50V
C111	0209731	CD 1000pF ±10% 50V
C112	0244101	CD 1000pF ±10% 50V
C113	0208684	CD 100pF ±5% 50V
C151	0208633	CD 3pF ±5pF 50V (for E (BS))
C151	0208664	CD 15pF ±5% 50V (for E)
C152	0208646	CD 6pF ±5% 50V
C154	0208668	CD 22pF ±5% 50V
C155	0208668	CD 22pF ±5% 50V
C156	0208648	CD 8pF ±0.5% 50V
C157	0275011	MF 0.01μF ±10% 50V
C158	1221393	ST 360pF ±5% 50V
C159	1221391	ST 180pF ±5% 50V
C161	0244171	CD 0.01μF +80% −20% 50V (for E)
C162	0244171	CD 0.01μF +80% −20% 50V
C163	0244173	CD 0.022μF +80% −20% 50V
C171	0248635	CD 5pF ±0.25% 50V
C173	0208680	CD 68pF ±5% 50V
C176	0208686	CD 120pF ±5% 50V
C177	0249766	CD 0.068μF ±20% 25V
C178	0252521	EL 10μF 16V
C204	0244171	CD 0.01μF +80% −20% 50V
C205	0244171	CD 0.01μF +80% −20% 50V
C206	0252325	EL 47μF 10V
C207	0244173	CD 0.022μF +80% −20% 50V
C208	0252322	EL 22μF 10V
C209	0209723	CD 470pF ±10% 50V
C210	0252805	EL 0.47μF 50V
C211	0209175	CD 0.047μF +80% −20% 50V
C212	0252813	EL 3.3μF 50V
C213	0209175	CD 0.047μF +80% −20% 50V
C214	0252232	EL 220μF 6.3V
C301	0252811	EL 1.0μF 50V
C302	0252813	EL 3.3μF 50V
C303	1221395	ST 1000pF ±5% 50V
C304	0252811	EL 1.0μF 50V
C305L,R	0209736	CD 6800pF ±10% 50V
C306L,R	0252801	EL 0.1μF 50V
C307	0252232	EL 220μF 6.3V
C308L	0209735	CD 4700pF ±10% 50V
C308R	0244109	CD 4700pF ±10% 50V
C309	0244107	CD 3300pF ±10% 50V
C401	0244175	CD 0.047μF +80% −20% 50V
C402L,R	0208688	CD 150pF ±5% 50V
C403L,R	0209732	CD 1500pF ±10% 50V
C404L,R	0252331	EL 100μF 10V
C405L,R	0252521	EL 10μF 16V
C407L,R	0275015	MF 0.047μF ±10% 50V
C408	0252521	EL 10μF 16V
C410L,R	0209733	CD 2200pF ±10% 50V
C411L,R	0274013	MF 2200pF ±10% 50V
C412L,R	0249764	CD 0.033μF ±20% 50V
C413L,R	0252802	EL 0.22μF 50V
C414	0252232	EL 220μF 6.3V
C415R	0209736	CD 6800pF ±10% 50V
C415L	0244111	CD 6800pF ±10% 50V
C416L,R	0244101	CD 1000pF ±10% 50V
C417L,R	0248696	CD 330pF ±5% 50V
C418	0244171	CD 0.01pF +80% −20% 50V
C419L,R	0252811	EL 1.0μF 50V
C421L,R	0248696	CD 330pF ±10% 50V
C422	0244173	CD 0.022μF +80% −20% 50V
C451	0252331	EL 100μF 10V
C452	0209731	CD 1000pF ±10% 50V
C453	0275015	MF 0.047μF ±10% 50V
C454	0248686	CD 120pF ±5% 50V
C501L,R	0209731	CD 1000pF ±10% 50V
C502L,R	0252521	EL 10μF 16V
C503	0252532	EL 220μF 16V
C504L,R	0276011	MF 0.1μF ±10% 50V
C505L,R	0252331	EL 100μF 10V
C506L,R	0252335	EL 470μF 10V
C507	0252325	EL 47μF 10V
C508	0252541	EL 1000μF 16V
C509	0252522	EL 22μF 16V
C601	0244171	CD 0.01μF +80% −20% 50V
C602	0244171	CD 0.01μF +80% −20% 50V
C603	0244171	CD 0.01μF +80% −20% 50V
C604	0244171	CD 0.01μF +80% −20% 50V
C701	0252331	EL 100μF 10V
C702	0252812	EL 2.2μF 50V
C703	0274012	MF 1500pF ±10% 50V
C704	0252811	EL 1.0μF 50V
C705	0252811	EL 1.0μF 50V
C706	0276013	MF 0.22μF ±10% 50V
C707	0276011	MF 0.1pF ±10% 50V
C708	0249766	CD 0.068μF ±20% 50V
C709	0208686	CD 120pF ±5% 50V
RESISTORS		
R101	0170334	CF 33Ω ±5% SRD1/6P
R102	0113575	CF 22Ω ±5% SRD1/6P
R154	0113647	CF 22kΩ ±5% SRD1/6P
R155	0113643	CF 15kΩ ±5% SRD1/6P
R156	0113623	CF 2.2kΩ ±5% SRD1/6P
R161	0113591	CF 100Ω ±5% SRD1/6P (for E)
R162	0113675	CF 300kΩ±5% SRD1/6P (for E)
R201	0113663	CF 100kΩ±5% SRD1/6P (for E)
R202	0113639	CF 10kΩ ±5% SRD1/6P
R203	0113597	CF 180Ω ±5% SRD1/6P
R207	0113643	CF 15kΩ ±5% SRD1/6P
R208	0113583	CF 47Ω ±5% SRD1/6P
R209	0113663	CF 100kΩ±5% SRD1/6P
R210	0113623	CF 2.2kΩ ±5% SRD1/6P
R301	0113615	CF 1kΩ ±5% SRD1/6P
R302	0113639	CF 10kΩ ±5% SRD1/6P
R303	0170349	CF 560Ω ±5% SRD1/8P
R304	0113671	CF 220kΩ±5% SRD1/6P
R305L,R	0113627	CF 3.3kΩ ±5% SRD1/6P
R307L,R	0113631	CF 4.7kΩ ±5% SRD1/6P
R308	0112912	MO47Ω ±10%RS1B
R401	0113627	CF 3.3kΩ ±5% SRD1/6P
R402	0113615	CF 1kΩ ±5% SRD1/6P
R403	0113611	CF 680Ω ±5% SRD1/6P
R404L,R	0113679	CF 470kΩ ±5% SRD1/6P
R405L,R	0113609	CF 560Ω ±5% SRD1/6P
R407L	0113675	CF 47kΩ ±5% SRD1/6P
R407R	0170342	CF 47kΩ ±5% SRD1/8P
R408L,R	0113609	CF 560Ω ±5% SRD1/6P
R409L,R	0113567	CF 10Ω ±5% SRD1/6P
R411L,R	0113639	CF 10kΩ ±5% SRD1/6P
R412L,R	0113629	CF 3.9kΩ ±5% SRD1/6P
R413L,R	0113659	CF 68kΩ ±5% SRD1/6P
R414L,R	0113645	CF 18kΩ ±5% SRD1/6P
R415L,R	0113639	CF 10kΩ ±5% SRD1/6P
R416L,R	0113631	CF 4.7kΩ ±5% SRD1/6P
R417L,R	0113625	CF 2.7kΩ ±5% SRD1/6P
R418	0129561	CF 100Ω ±5% SRD1/4P
R419L,R	0113659	CF 68kΩ ±5% SRD1/6P
R420L,R	0113631	CF 4.7kΩ ±5% SRD1/6P
R421L,R	0113663	CF 100kΩ ±5% SRD1/6P
R422L,R	0113645	CF 18kΩ ±5% SRD1/6P
R451	0112915	MO33Ω ±10%RS1B
R452	0113561	CF 5.6Ω ±5% SRD1/6P
R453	0113655	CF 47kΩ ±5% SRD1/6P
R501L,R	0113615	CF 1kΩ ±5% SRD1/6P
R503L,R	0113551	CF 2.2Ω ±5% SRD1/6P
R504L,R	0170338	CF 68Ω ±5% SRD1/8P
R505	0113611	CF 680Ω ±5% SRD1/6P
R701	0113615	CF 1kΩ ±5% SRD1/6P
R702	0113587	CF 68Ω ±5% SRD1/6P
R703	0113617	CF 1.2kΩ ±5% SRD1/6P
R704	0113655	CF 47kΩ ±5% SRD1/6P
R705	0113591	CF 100Ω ±5% SRD1/6P
R706	0113643	CF 15kΩ ±5% SRD1/6P
R707	0113627	CF 3.3kΩ ±5% SRD1/6P
R708	0113647	CF 22kΩ ±5% SRD1/6P
R709	0113647	CF 22kΩ ±5% SRD1/6P
R710	0119504	MO18Ω ±10%RS2B
⚠ FR501	1118447	FR 6.8Ω ±5% RN1/4B
ICS & TRANSISTORS		
IC101	2398201	TA7358P
IC201	2389511	TA7640AP
IC301	2301041	TA7343AP
IC401	2300881	AN7312
IC501	2389521	μPC1278H
Q151	2319083	HIT9011GH (for E)
Q451	2319101	2SC1684R
Q501	2317803	2SD1266 Ⓟ
Q701	2318201	2SD592AR
Q702	2318191	2SC1815GR
DIODE		
D101	2398082	1N4148
D102	2398081	1N4148 (for E)
D103	2338031	1S2790
D201	2398082	1N4148

SYMBOL NO.	PA N
D501	2398
D601	2398
D602	2398
D603	2398
D604	2398
D701	2337
D702	2398
ZD501	2337
ZD701	2338
ZD702	2338
LED1	2397
VCD1	2398
VCD2	2398
VARIA	
RV401L,R	0166
RV402L,R	0166
RV702	0189
RV707	0189
RT301	0189
RT701	0189
RT702	0189
RT703	0189
L101	2137
L102	2137
L151	2137
L151	2137
L152	2757
L153	2757
L154	2137
L155	2137
L156	2137
L171	2137
L501	2227
L701	2227
MIS	
S001	2789
S201	2629
S401	2629
S402	2628
S403	2629
⚠ S601	2629
S701	2639
J401L,R	2678
J501	2678
BPF1	2137
CF201	2135
T101	2135
T201	2154
T202	2154
T203	2154
T401	2136
T701	2267

on
or

DESCRIPTION
7kΩ ±5% SRD1/6P
Ω ±10%RS1B
3kΩ ±5% SRD1/6P
Ω ±5% SRD1/6P
0Ω ±5% SRD1/6P
0kΩ ±5% SRD1/6P
0Ω ±5% SRD1/6P
kΩ ±5% SRD1/6P
kΩ ±5% SRD1/8P
0Ω ±5% SRD1/6P
Ω ±5% SRD1/6P
kΩ ±5% SRD1/6P
0kΩ ±5% SRD1/6P
kΩ ±5% SRD1/6P
kΩ ±5% SRD1/6P
kΩ ±5% SRD1/6P
7kΩ ±5% SRD1/6P
7kΩ ±5% SRD1/6P
0Ω ±5% SRD1/4P
kΩ ±5% SRD1/6P
7kΩ ±5% SRD1/6P
0kΩ ±5% SRD1/6P
kΩ ±5% SRD1/6P
Ω ±10%RS1B
3Ω ±5% SRD1/6P
kΩ ±5% SRD1/6P
Ω ±5% SRD1/6P
2Ω ±5% SRD1/6P
Ω ±5% SRD1/8P
0Ω ±5% SRD1/6P
Ω ±5% SRD1/6P
Ω ±5% SRD1/6P
2kΩ ±5% SRD1/6P
kΩ ±5% SRD1/6P
0Ω ±5% SRD1/6P
kΩ ±5% SRD1/6P
3kΩ ±5% SRD1/6P
kΩ ±5% SRD1/6P
kΩ ±5% SRD1/6P
Ω ±10%RS2B
3Ω ±5% RN1/4B
ISTORS
58P
40AP
43AP
12
278H
11GH (for E)
384R
266 Ⓟ
92AR
315GR
E
48
48 (for E)
90
48

SYMBOL NO.	PART NO.	DESCRIPTION
D501	2398081	1N4148
D601	2398062	1N4001
D602	2398062	1N4001
D603	2398062	1N4001
D604	2398062	1N4001
D701	2337641	1SS81
D702	2398082	1N4148
ZD501	2337541	HZ-7A-1
ZD701	2338672	RD39EB6
ZD702	2338091	μPC574j
LED1	2397753	LN217RP
VCD1	2398371	1SV50 (1)
VCD2	2398371	1SV50 (1)
VARIABLE RESISTORS		
RV401L,R	0166932	10kΩ (A)
RV402L,R	0166944	10kΩ (B)
RV702	0189351	100kΩ (B)
∫	∫	∫
RV707	0189351	100kΩ (B)
RT301	018933'1	5kΩ×8
RT701	0189334	20kΩ×8
RT702	0189332	10kΩ×8
RT703	0189332	10kΩ×8
COILS		
L101	2137680	FM RF coil
L102	2137689	FM OSC coil
L151	2137662	SW antenna coil (for E)
L151	2137661	SW anttenna coil (for E (BS))
L152	2757994	Ferrite antenna
L153	2757994	Ferrite antenna
L154	2137671	SW OSC coil
L155	2137631	MW OSC coil
L156	2137642	LW OSC coil
L171	2137684	Choke coil
L501	2227748	Choke coil
L701	2227748	Choke coil
MISCESSANEOUS		
S001	2789801	Switch, leaf
S201	2629282	Slide switch
S401	2629293	Slide switch
S402	2628581	Slide switch
S403	2629331	Slide switch
⚠ S601	2629261	Slide switch
S701	2639626	Push switch
J401L,R	2678781	2P pin jack
J501	2678234	Headphone jack
BPF1	2137191	FM band pass filter
CF201	2135321	Ceramic filter
T101	2135651	FM IF transformer
T201	2154952	AM IF transformer
T202	2154964	FM IF transformer
T203	2154951	AM IF transformer
T401	2136891	REC OSC transformer
T701	2267021	DC-DC conv. trans

SYMBOL NO.	PART NO.	DESCRIPTION
CT151	0283130	Semi variable capacitor
CT152	∫	∫
CT153	0283130	
CT154	0283557	
CT155	0283557	
CT156	0282148	Semi variable capacitor
CT101	0282381	Variable capacitor with variable resistor
CT150	∫	∫
CV151		
CV152		
RV701	0282381	Variable capacitor with variable resistor
⚠ F601	2728073	Fuse T1.25A
	2737441	MIC
⚠ P.T.	2249601	Power transformer 320G 7.8VA (for E)
⚠ P.T.	2249602	Power transformer (for E(BS))
⚠	2707709	Power supply cord (for E)
⚠	2717902	Power supply cord (for E(BS))
	2504841	M PWB assembly
	8691406	Screw, 3×6 BT bind head
	8691408	Screw, 3×8 BT bind head
⚠ P001	2689461	2P Terminal

● Cassette Chassis (TN-21-582 mecha. assembly)

ITEM NO.	PART NO.	DESCRIPTION
1	4818991	Main base ass'y
2	4818992	Switch plate
3	4832411	Push button actuator ass'y
4	4820212	Lever, REC button
5	4820213	Lever, PLAY button
6	4818996	Lever, RWD button
7	4818997	Lever, FF button
8	4818998	Lever, STOP button
9	4818999	PAUSE button lever ass'y
10	4818990	Lever, RWD
11	4819131	Lever, PAUSE
12	4819132	Spring, PAUSE lever
13	4819133	Stopper, PAUSE
14	4820214	Spring, button lever
15	4820215	Sub chassis
16	4819007	Spring, button lever
17	4819100	Spring, button lever
19	4819008	Spring, actuator
20	4819009	Lever, AUTO
21	4819000	Spring, AUTO lever
22	4820217	Spring, PLAY button lever
23	2789801	Switch, leaf
25	4820218	Spring, switch actuator
26	4820219	Head panel
27	4819014	Head base
28	4832412	Sensing plate ass'y
29	4820221	Spring, head panel
30	4819018	MG arm
31	4819006	PR stopper
32	4819045	Screw
33	4819017	Spring
34	4802222	Pressure roller arm ass'y
35	4820223	Spring, pressure roller arm
36	4832413	RF pulley arm
37	4820225	Spring, RF pulley arm
38	4832414	RF coller arm screw
39	4820227	Belt
40	4820231	Flywheel ass'y
41	4819575	Reel PWB ass'y
42	4832415	Take up gear plate ass'y
43	4832416	Take up roller gear
44	4819020	Spring, TG plate
45	4832417	FF gear
46	4819037	Spring
47	4819033	Supply reel ass'y
48	4819034	Take-up reel ass'y
49	4819035	Record safety lever
50	4819032	Spring
51	4820236	Bracket, motor
52	4819036	Motor rubber
53	4819533	Screw, motor collar
54	4820235	Main belt
55	4819043	Lever, eject slide
56	4819044	Spring, eject slide lever
57	4820242	Pack spring
58	2557321	Erase head
59	2555671	Record playback head
60	4819063	Screw, tapping 2×3
61	4819068	Screw, tapping 2×4
62	4819607	Screw, bind tapping 2×5
63	4819069	Screw, 2×6
64	4819060	Screw, 2×7
65	4819600	Screw, azimuth
67	4819077	Washer, 1.2
68	4819078	Washer, 1.55
69	4832432	Washer cut 2.05×4×0.5
71	4820366	Motor assembly
72	4820241	Mat
73	4819062	Lug

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