

# Service Manual

**QUARTZ Synthesizer  
AM/FM Stereo Receiver**



## SPECIFICATIONS (IHF '78)

### ■ AMPLIFIER SECTION

#### Rated minimum sine wave

RMS power output

20 Hz~20 kHz both channels driven

0.5% total harmonic distortion

40 W per channel (8 ohms)

#### 1 kHz continuous power output

both channels driven

0.5% total harmonic distortion

42 W per channel (8 ohms)

#### Dynamic headroom

1.2 dB (8 ohms)

#### Total harmonic distortion

rated power at 20 Hz~20 kHz

0.5% (8 ohms)

half power at 1 kHz

0.07% (8 ohms)

#### SMPTE intermodulation distortion

0.5% (8 ohms)

#### Frequency response

PHONO

RIAA standard curve ±0.8 dB

CD, VCR 1, TAPE/VCR 2

10 Hz~70 kHz, ±3 dB

#### Input sensitivity

PHONO

0.4 mV (3 mV, IHF '66)

CD, VCR 1, TAPE/VCR 2

27 mV (200 mV, IHF '66)

#### S/N (IHF, A)

PHONO

68 dB (71 dB, IHF '66)

CD, VCR 1, TAPE/VCR 2

70 dB (85 dB, IHF '66)

#### Maximum input voltage

PHONO

160 mV (IHF '66)

#### Input impedance

PHONO

47 kilohms

CD, VCR 1, TAPE/VCR 2

22 kilohms

#### Tone controls

BASS

50 Hz, +10 dB~-10 dB

TREBLE

20 kHz, +10 dB~-10 dB

Loudness control (volume at -30 dB)

50 Hz, +9 dB

Low frequency damping factor

20 (8 ohms)

Load impedance

A or B

8~16 ohms

A and B

8~16 ohms

### ■ FM TUNER SECTION

Frequency range

87.9~107.9 MHz

Sensitivity

11.2 dBf (2 µV, IHF '58)

50 dB quieting sensitivity

MONO

20.2 dBf (5.6 µV, IHF '58)

STEREO

40.2 dBf (56 µV, IHF '58)

Total harmonic distortion

0.2% (MONO), 0.3% (STEREO)

S/N

MONO

75 dB

STEREO

70 dB

Frequency response

20 Hz~15 kHz, +1 dB, -2 dB

Alternate channel selectivity

65 dB

Capture ratio

1.0 dB

Image rejection at 98 MHz

45 dB

iF rejection at 98 MHz

80 dB

Spurious response rejection at 98 MHz

75 dB

AM suppression

50 dB

Stereo separation

1 kHz

40 dB

10 kHz

30 dB

Carrier leak

19 kHz

-35 dB

38 kHz

-50 dB

Antenna terminals

300 ohms (balanced)

75 ohms (unbalanced)

# Technics

Matsushita Services Company  
Division of Matsushita Electric  
Corporation of America  
50 Meadowland Parkway,  
Secaucus, New Jersey 07094

Panasonic Sales Company,  
Division of Matsushita Electric  
of Puerto Rico, Inc.  
San Gabriel Industrial Park  
65th Infantry Ave. Km.9.5  
Carolina, P.R. 00630

Matsushita Electric of Canada  
Limited  
5770 Ambler Drive, Mississauga,  
Ontario, L4W 2T3

Color

(K)...Black Type

Area

Country Code	Area	Color
(P)	U.S.A.	
(PC)	Canada.	(K)

## ■ AM TUNER SECTION

Frequency range	530~1720 kHz
Sensitivity	20 $\mu$ V, 330 $\mu$ V/m
Selectivity	55 dB
Image rejection at 1000 kHz	40 dB
IF rejection at 1000 kHz	60 dB

## ■ GENERAL

Power consumption	170 W
Power supply	AC 120V, 60Hz
Dimensions (W × H × D)	430 × 124 × 300 mm (16-15/16" × 4-7/8" × 11-13/16")
Weight	5.9 kg (13.1 lb.)

### Note:

Total harmonic distortion is measured by the digital spectrum analyzer.

## ■ CONTENTS

	Page
SAFETY PRECAUTION .....	2
ACCESSORIES .....	2
REAR PANEL TERMINALS AND FUNCTIONS .....	3
FRONT PANEL CONTROLS AND FUNCTIONS .....	4~7
DISMANTLING INSTRUCTIONS .....	8~11
PROTECTION CIRCUITRY .....	12
BEFORE REPAIR AND ADJUSTMENT .....	12
MEASUREMENTS AND ADJUSTMENTS .....	12, 13
TERMINAL FUNCTION OF IC .....	14
INTERNAL CONNECTION OF FL .....	15

	Page
BLOCK DIAGRAM .....	16~18
TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES .....	19
SCHEMATIC DIAGRAM .....	20~28
PRINTED CIRCUIT BOARDS .....	29~34
WIRING CONNECTION DIAGRAM .....	35
EXPLODED VIEW .....	36~38
REPLACEMENT PARTS LIST .....	39~42
PACKING .....	42
RESISTORS & CAPACITORS .....	43, 44

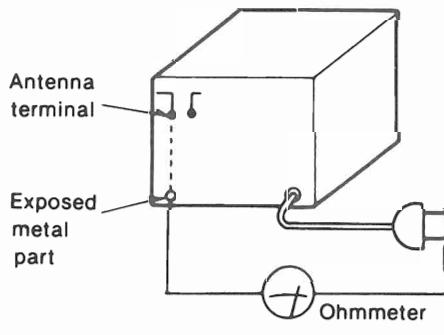
## ■ SAFETY PRECAUTION (This "safety precaution" is applied only in U.S.A.)

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

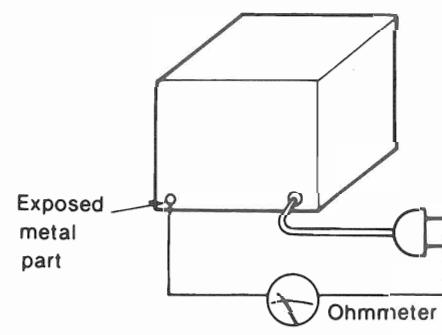
### ● INSULATION RESISTANCE TEST

1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between  $3M\Omega$  and  $5.2M\Omega$  to all exposed parts. (Fig. A) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig. B)

**Note:** Some exposed parts may be isolated from the chassis by design. These will read infinity.



Resistance =  $3M\Omega$ — $5.2M\Omega$



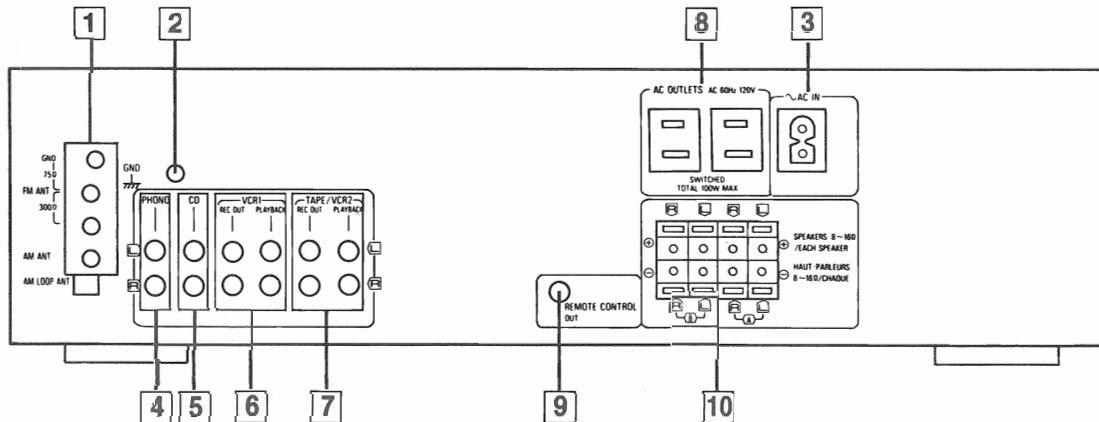
Resistance = Approx  $\infty$

4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

## ■ ACCESSORIES

• AC power supply cord (SJA172-1) (P) ..... 1pc. (SJA172) (PC) ..... 1pc.	• Remote control transmitter (RAK-SA301P) ..... 1pc.
• FM indoor antenna (SSA272M) ..... 1pc.	• AM loop antenna (SPB1163T) ..... 1pc.
• AM antenna holder (SMA233-1M) ..... 1pc.	• Screws (XTN3+10AFZ) ..... 2pcs.

## REAR PANEL TERMINALS AND FUNCTIONS



### 1 Antenna connection terminals

### 2 "GND" terminal

Connect the turntable's ground wire to this terminal (if applicable).

### 3 AC IN socket (AC IN)

Connect this socket to an AC outlet on the wall using the power supply cord.

### 4 "PHONO" terminals

Connect a turntable only. Do not connect any other sound source to these terminals.

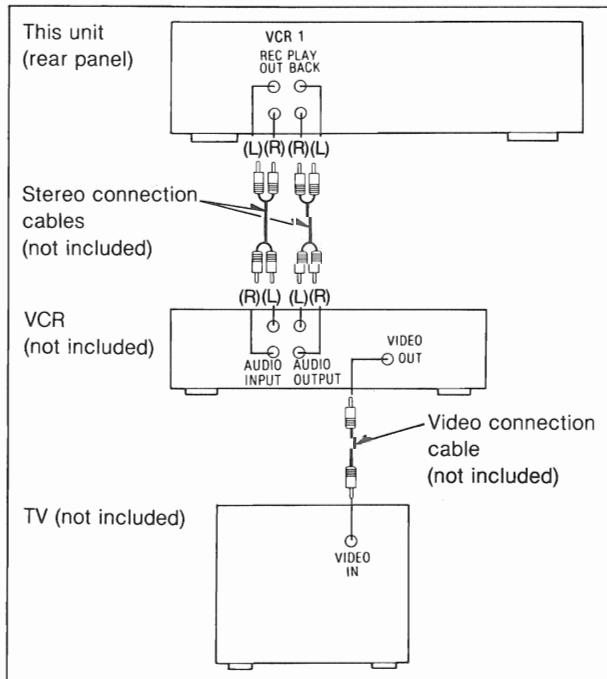
※ Phono input capacitance is about 100 pF.

### 5 "CD" terminals

Connect a compact disc player or other sound source.

### 6 "VCR 1" terminals

Connect a video cassette recorder or an audio tape deck, etc.

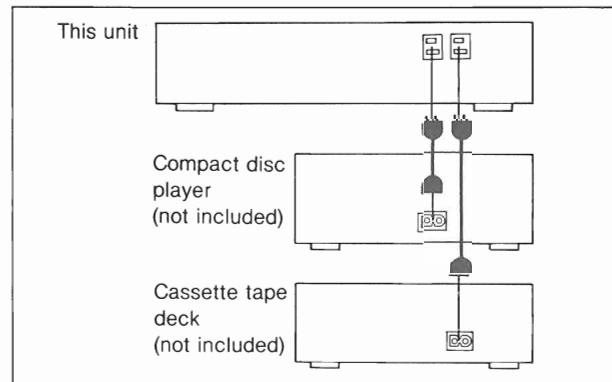


### 7 "TAPE/VCR 2" terminals

Connect a tape deck or second video cassette recorder.

### 8 Outlets "SWITCHED"

Power to these outlets is controlled by the power switch of this unit. Audio equipment rated up to 100 W (total for all outlets) can be connected here. For proper remote-control operation, connect the power cords of the tape deck and compact disc player to these outlets as indicated below:

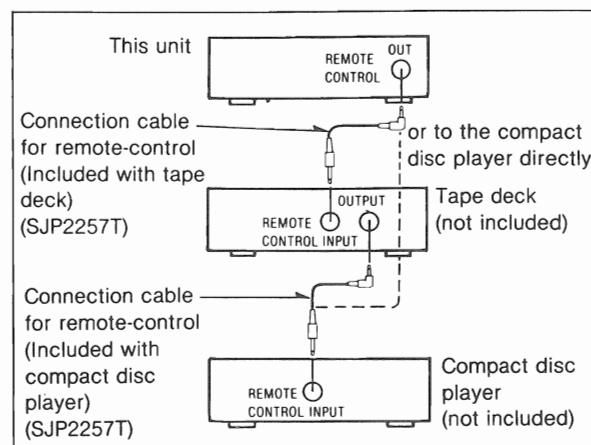


### 9 Remote-control OUT terminal (REMOTE CONTROL/OUT)

This terminal can be used only with Technics components which have the appropriate remote-control terminal.  
(Consult your dealer for details.)

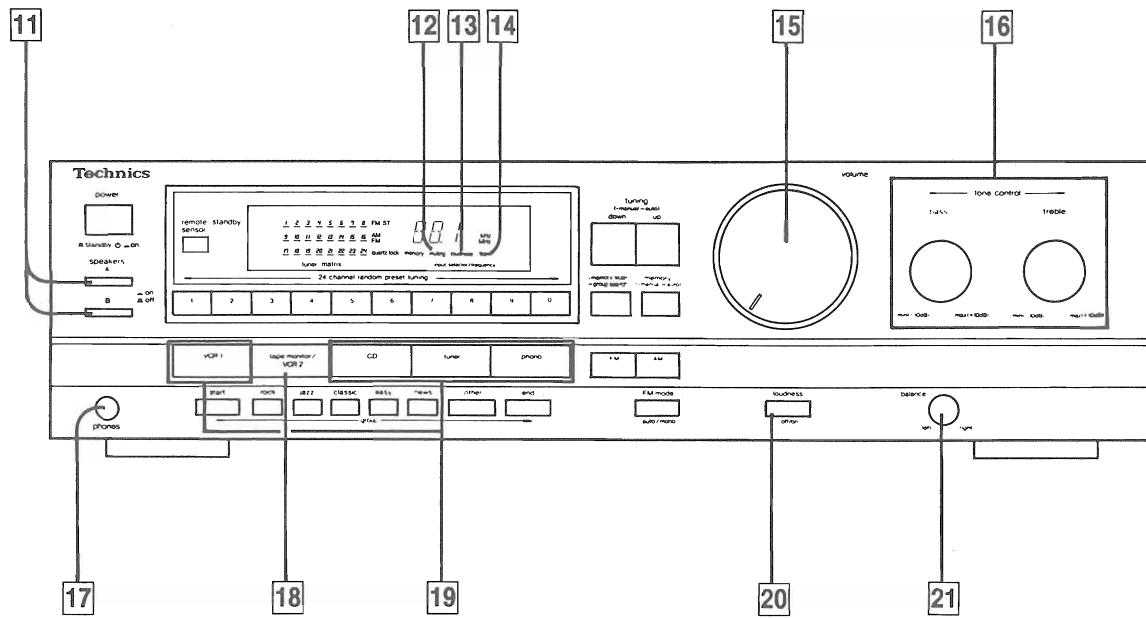
Proper connection with remote-control connection cables SJP2257T will allow control of some functions from this unit's remote-control transmitter.

Connect to a tape deck and/or compact disc player as shown below.



### 10 Speaker connection terminals

## ■ FRONT PANEL CONTROLS AND FUNCTIONS



## Amplifier section

### **[11] Speaker selectors (speakers)**

These selectors are used to select the speaker system(s) (A and/or B).

### **[12] Muting indicator (muting)**

This indicator will illuminate when the muting button (on the remote-control transmitter) is pressed.

### **[13] Loudness indicator (loudness)**

This indicator will illuminate when the loudness switch is pressed.

### **[14] Tape indicator (tape)**

This indicator will illuminate when the tape-monitor switch is pressed.

### **[15] Volume control/indicator (volume)**

### **[16] Tone controls (bass/treble)**

The bass control is used to adjust the low-frequency sound range, and the treble control is used to adjust the high-frequency sound range.

### **[17] Headphone jack (phones)**

### **[18] Tape-monitor/VCR 2 switch (tape monitor/VCR 2)**

Press this button to listen to a tape or an equipment connected to the "TAPE/VCR2" terminals.

To listen to some other source, press this button once again (so that the indicator is switched OFF).

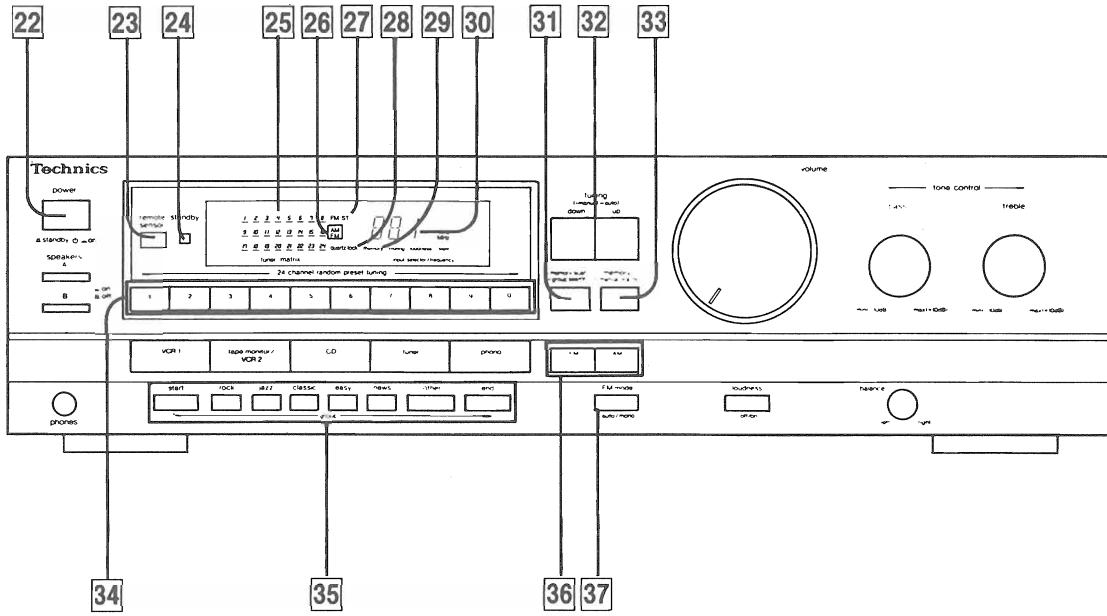
### **[19] Input selector buttons**

These buttons are used to select the sound source to be heard, such as a disc, radio broadcasts, etc. The selected sound source is shown on the audio input selector/frequency display. The "phono" input selector has two functions: when pressed momentarily it selects "PHONO". when pressed and held for about 5 seconds, it de-activates the muting function.

### **[20] Loudness switch (loudness)**

Set to the "on" position (the loudness indicator will illuminate); when listening to music at low volume. Auditory perception of sound in the low frequency range falls off at low volume, but when the switch is in this position, this deficiency is compensated for, so that the full impact of the musical performance can be enjoyed.

### **[21] Balance control (balance)**



## Tuner section

### **22 Power “standby ⏪/on” switch (power/■ standby ⏪ ■ on)**

If the power was switched OFF from the remote control, to switch the power ON from the unit set the switch to OFF and then ON again.

**Note:**

The power can not be controlled from the remote control unless this switch is set to ON.

### **23 Remote-control signal receptor (remote sensor)**

Receives the signals from the remote-control.

### **24 “standby” indicator (standby)**

This indicator illuminates when the power switch of this unit or that of the remote control is switched “OFF”. Its purpose is to alert the user of the constant supply voltage to the internal circuitry even with the power switch OFF.

### **25 Preset channel matrix display (tuner matrix)**

When an entry is made into memory, the bar under the figure illuminates.

The bar of the “channel” now being received flashes continuously.

### **26 Band indicators (AM/FM)**

Indicates the selected band.

### **27 FM stereo indicator (FM ST)**

This indicator automatically illuminates when an FM stereo broadcast is being received.

**Note:**

It will not illuminate if the FM mode selector is set to the monaural mode.

### **28 Quartz-lock indicator (quartz lock)**

This indicator illuminates when the unit is tuned precisely to a broadcast station.

### **29 Memory indicator (memory)**

This indicator illuminates when the memory button is pressed.

### **30 Audio input selector/frequency display (input selector/frequency)**

Displays the selected source or broadcast frequency.

### **31 Memory-scan/group-search button (-memory scan/-group search)**

This button is used to scan the memory presets within a group (for about three seconds each) or to search for the desired group.

### **32 Tuning buttons (tuning)**

These buttons are used for tuning to the desired broadcast station. The frequency will change at intervals of 0,1 MHz for FM and 10 kHz for AM.

### **33 Memory button (memory)**

This button is used when presetting broadcast station frequencies into memory.

### **34 Preset-tuning buttons (1 – 0) (24 channel random preset tuning)**

These buttons are used to preset broadcast frequencies into the memory of this unit and to recall the desired preset stations.

### **35 Group registration buttons (group)**

These buttons are used to assign memory presets to the desired group or to select the desired group.

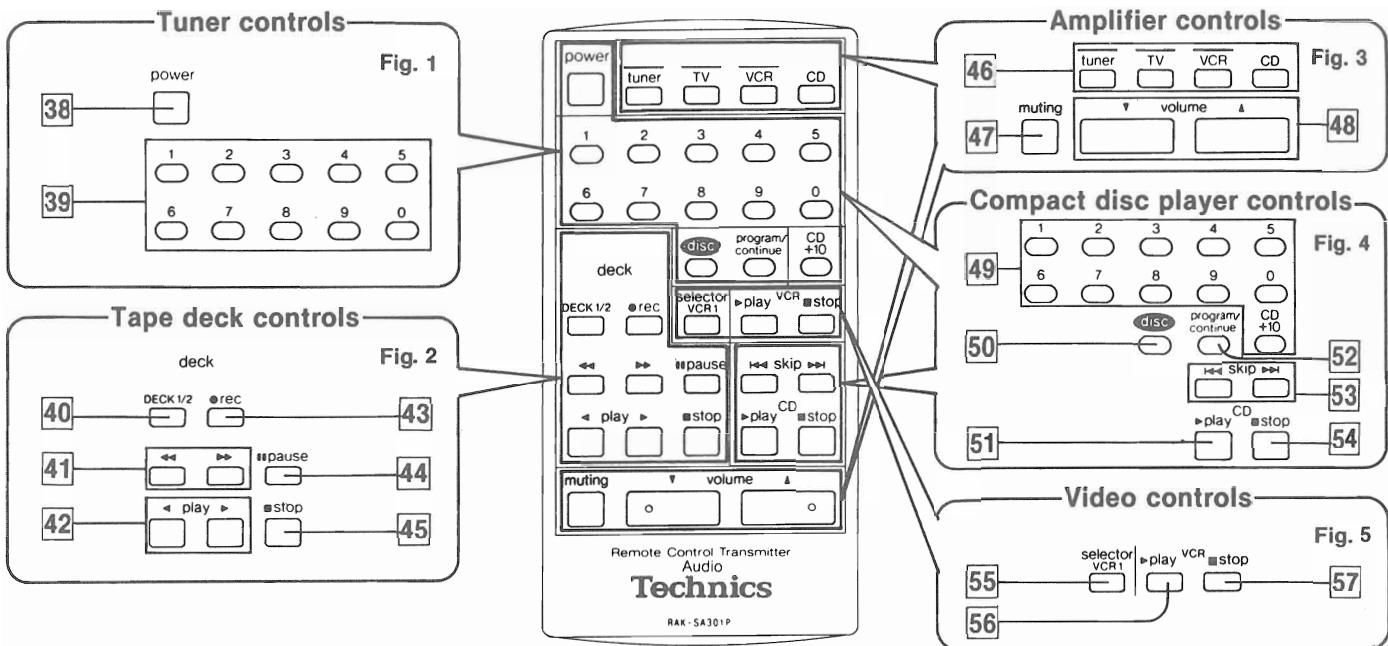
### **36 Band selectors**

**FM:** Press this button to listen to an FM broadcast.

**AM:** Press this button to listen to an AM broadcast.

### **37 FM mode selector (FM mode)**

This unit automatically switches to the stereo mode when an FM stereo broadcast is received. This selector is used to select the mode (stereo or monaural) of FM broadcast signals.



## Remote control section

### Tuner controls (Fig. 1)

#### **38 Power switch (power)**

This power switch can be used for ON and OFF switching of this unit as well as any Panasonic remote controlled TV and/or VCR. When switching the power ON and OFF of each unit, be sure to first press the appropriate input selector button on amplifier controls.

#### **39 Preset-tuning buttons (1–0)**

These buttons are used to tune to broadcast stations that have been preset to the unit's memory. When these buttons are used, be sure to first press the "tuner" button of the input selector buttons on amplifier controls.

### Tape deck controls (Fig. 2)

#### **40 Deck 1/Deck 2 selector (DECK 1/2)**

This button is used to select the deck to be operated by remote control.

#### **43 Record button (● rec)**

Press this button to change to the recording stand-by mode.

#### **41 First-forward/rewind buttons (◀◀, ▶▶)**

Press this button to advance or rewind the tape while the unit is in the stop mode.  
Press this button to select the desired tune while the unit is in the play mode.  
(Only applicable to a Technics tape deck with the "music select" functions.)

#### **44 Pause button (■ pause)**

Press this button to temporarily stop playback or recording.  
Press the playback button to resume the play or recording.

#### **42 Playback buttons (◀ play ▶)**

▶: For the "A"-side of the tape  
◀: For the "B"-side of the tape  
Press one of these buttons to begin the playback or recording, pressing the button corresponding to the side of the tape to be played (or recorded).

#### **Note:**

Depending on which Technics tape deck is used in combination with this unit, tape deck B might be the "A"-side playback-only type.

## Amplifier controls (Fig. 3)

---

### **46 Input selector buttons (tuner/TV/VCR/CD)**

These buttons are used to select the sound source to be heard, such as a disc, radio broadcasts, etc.

### **47 Muting button (muting)**

This button is used to temporarily attenuate ("mute") the volume level.

### **48 Volume control (volume)**

These buttons are used to adjust the volume level.  
 ▼: To reduce the volume level.  
 ▲: To increase the volume level.

## Compact disc player controls (Fig. 4)

---

### **49 Numeric buttons (1~0, +10)**

These buttons are used to select the track or the disc number (only 1~6).  
 When these buttons are used, be sure to first press the "CD" button of the input selector buttons on amplifier controls.

### **50 Disc button (disc)**

This button is used when selecting the disc.

### **51 Play button (▶ play)**

To start compact disc play.

### **53 Skip buttons (◀◀ skip ▶▶)**

Press one of these buttons briefly to move the pickup (backward and forward) to the beginning of a specific track.

### **54 Stop button (■ stop)**

To stop compact disc play.

## Video controls (Fig.5)

---

### **55 Selector button (VCR 1)**

This button is used when a TV broadcast is to be received at the VCR.

### **56 Play button (▶ play)**

To start VCR play.

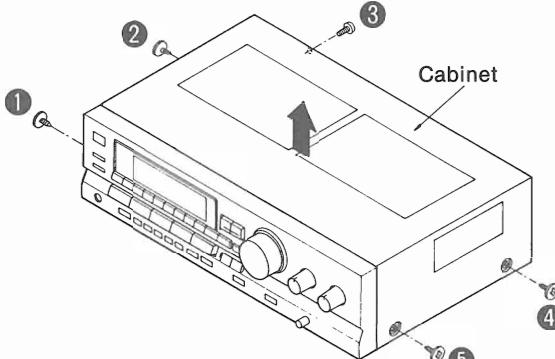
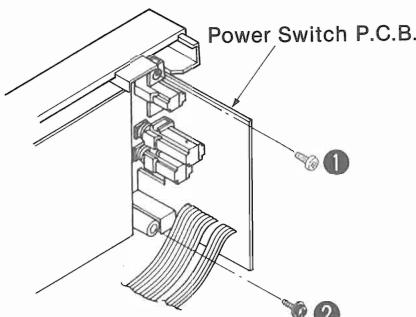
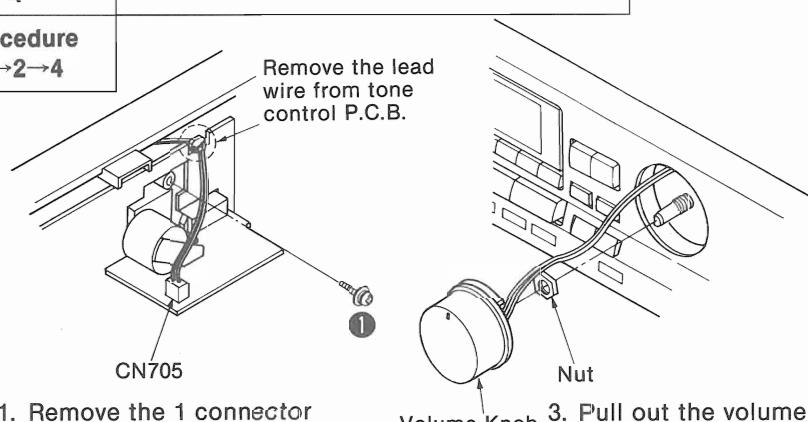
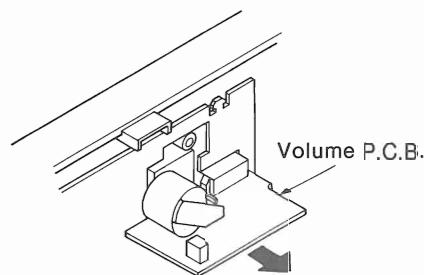
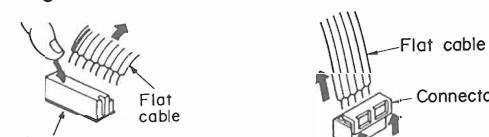
### **57 Stop button (■ stop)**

To stop VCR play.

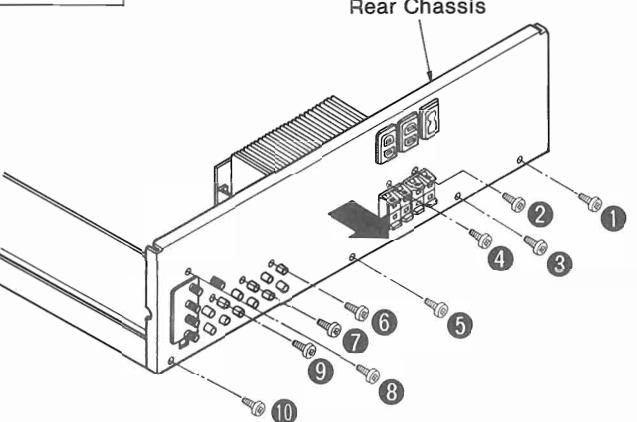
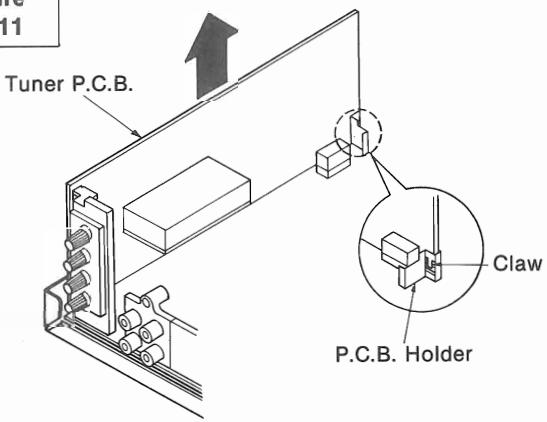
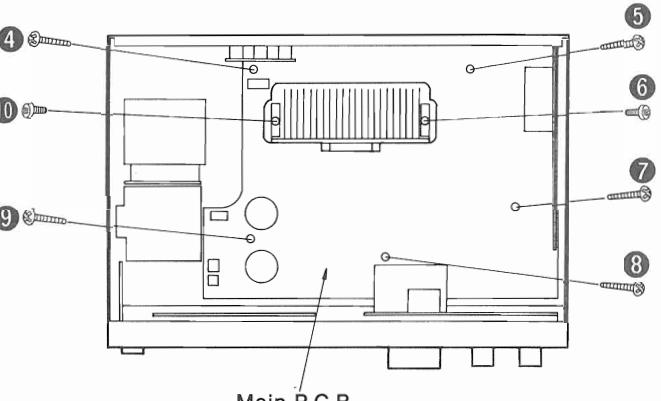
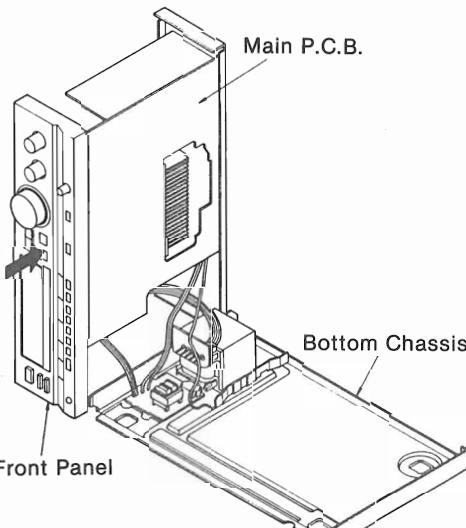
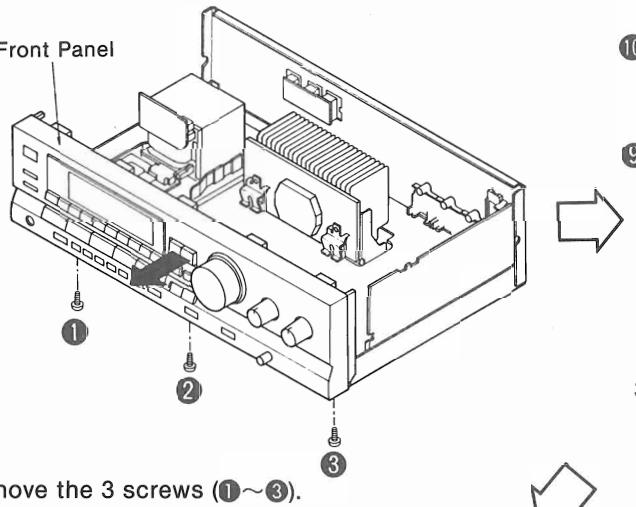
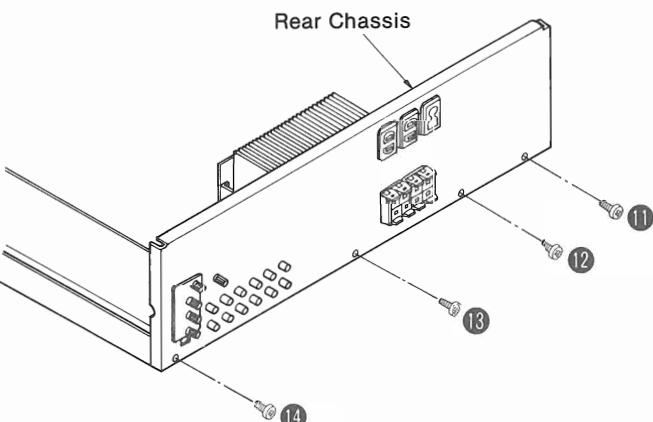
## DISASSEMBLY INSTRUCTIONS

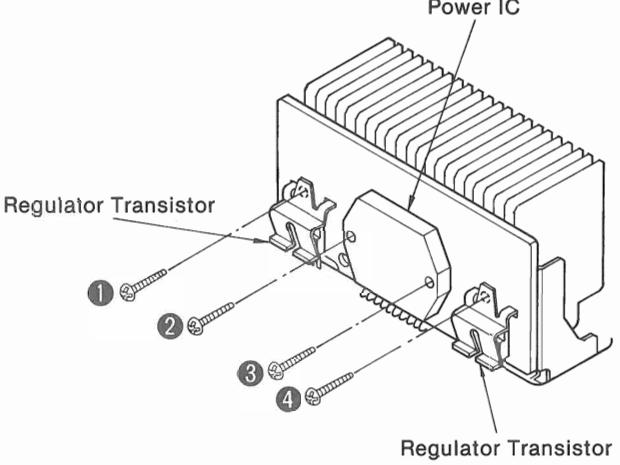
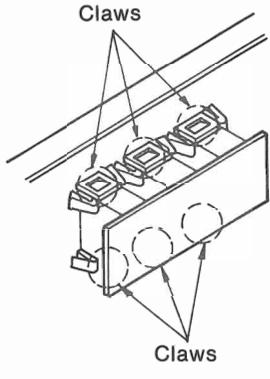
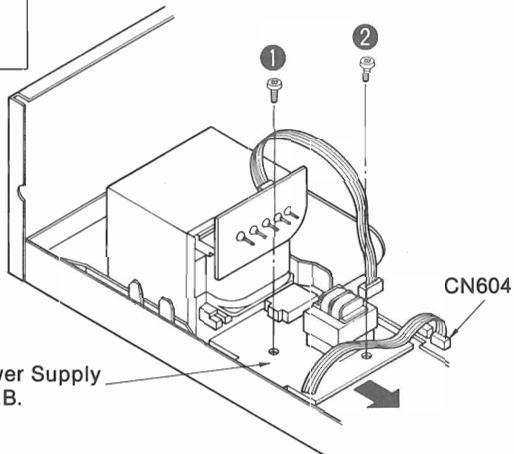
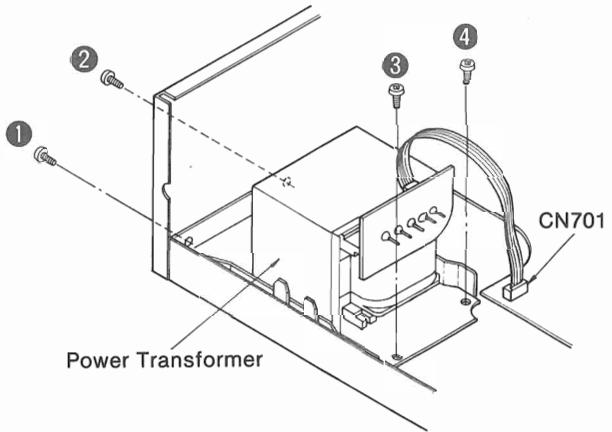
### "ATTENTION SERVICER"

Some chassis components may have sharp edges. Be careful when disassembling and servicing.

Ref. No. 1	<b>Removal of the cabinet</b>	Ref. No. 2	<b>Removal of the front panel</b>
Procedure 1	 <ul style="list-style-type: none"> <li>Remove the 5 screws (①~⑤).</li> </ul>		
Ref. No. 3	<b>Removal of the power switch P.C.B.</b>		
Procedure 1→2→3	 <ul style="list-style-type: none"> <li>Remove the 2 screws (①, ②).</li> </ul>		
Ref. No. 4	<b>Removal of the volume P.C.B.</b>		
Procedure 1→2→4	 <ol style="list-style-type: none"> <li>Remove the 1 connector (CN705).</li> <li>Remove the 1 screw (①).</li> <li>Pull out the volume knob.</li> <li>Remove the nut.</li> </ol>  <ol style="list-style-type: none"> <li>Remove the volume P.C.B. in the direction of the arrow.</li> </ol>		
<p><b>How to remove the flat cable (Two Types)</b></p> <ul style="list-style-type: none"> <li>Pull out the flat cable while pressing the connector.</li> <li>Lift the connector.</li> <li>Pull out the flat cable.</li> </ul> 			

Ref. No. 5	<b>Removal of the tone control P.C.B.</b>	Ref. No. 6	<b>Removal of the FL drive P.C.B.</b>
<b>Procedure</b> 1→2→4→5	<p>1. Pull out the bass knob and treble knob. 2. Remove the 7 screws (①~⑦). 3. Remove the tone control P.C.B. in the direction of the arrow. (Take care of CN502.)</p>	<b>Procedure</b> 1→2→6	<p>1. Remove the 4 screws (①~④). 2. Remove the FL drive P.C.B. in the direction of the arrow. (Take care of CN906, CN907.)</p>
Ref. No. 7	<b>Removal of the operation P.C.B. and balance VR P.C.B.</b>	<b>Operation P.C.B.</b>	
<b>Procedure</b> 1→2→4→5 →6→7	<p><b>■ Balance VR P.C.B.</b></p> <p>1. Pull out the balance knob. 2. Remove the 1 screw (①).</p>	<p>1. Remove the 8 screws (②~⑨). 2. Release the 5 claws.</p>	
Ref. No. 8	<b>Removal of the remote sensor P.C.B.</b>	Ref. No. 9	<b>Removal of the LED P.C.B.</b>
<b>Procedure</b> 1→2→6→8	<p>• Remove the remote sensor P.C.B. in the direction of the arrow.</p>	<b>Procedure</b> 1→2→4→9	<p>• Release the 2 claws.</p>

Ref. No. 10	Removal of the rear chassis	Ref. No. 11	Removal of the tuner P.C.B.
Procedure 1→10	<p>1. Remove the 1 connector (CN651).</p> <p>2. Remove the 10 screws (①~⑩).</p>  <p>3. Remove the rear chassis in the direction of the arrow.</p>	Procedure 1→10→11	 <p>1. Release the 1 claw.</p> <p>2. Remove the tuner P.C.B. in the direction of the arrow.</p>
Ref. No. 12	How to check the main P.C.B.		 <p>3. Remove the 7 screws (④~⑩).</p>  <p>5. Remove the bottom chassis.</p> <p>6. Reinstall the front panel to the main P.C.B.</p>
Procedure 1→12	 <p>1. Remove the 3 screws (①~③).</p> <p>2. Remove the front panel in the direction of the arrow.</p>  <p>4. Remove the 4 screws (⑪~⑭).</p>		

Ref. No. 13	Removal of the power IC and regulator transistor	Ref. No. 14	Removal of the AC IN/AC OUTLETS P.C.B.
Procedure 1→12→13	<p>1. Unsolder the power IC or regulator transistor. 2. Remove the 4 screws (①~④).</p> 	Procedure 1→10→14	
<ul style="list-style-type: none"> <li>When mounting the power IC or regulator transistor, apply silicon thermal compound (SZZ0L15 or equivalent) to the rear of the power IC or regulator transistor.</li> </ul>		 <ul style="list-style-type: none"> <li>Release the 6 claws.</li> </ul>	
Ref. No. 15	Removal of the power supply P.C.B.	Ref. No. 16	Removal of the power transformer
Procedure 1→2→15	 <ol style="list-style-type: none"> <li>Remove the 1 flat cable (CN604).</li> <li>Remove the 2 screws (①, ②).</li> <li>Remove the power supply P.C.B. in the direction of the arrow.</li> </ol>	Procedure 1→2→15→16	 <ol style="list-style-type: none"> <li>Remove the 1 flat cable (CN701).</li> <li>Remove the 4 screws (①~④).</li> </ol>

## ■ PROTECTION CIRCUITRY

The protection circuitry may have operated if either of the following conditions is noticed:

- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.

If this occurs, follow the procedure outlines below:

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

### Note:

When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

## ■ BEFORE REPAIR AND ADJUSTMENT

Disconnect AC power. Discharge both Power Supply Capacitors C701 and C702 through a  $10\Omega$ , 5W resistor to ground.

**DO NOT SHORT-CIRCUIT DIRECTLY** (with a screwdriver blade, for instance), as this may destroy solid state devices.

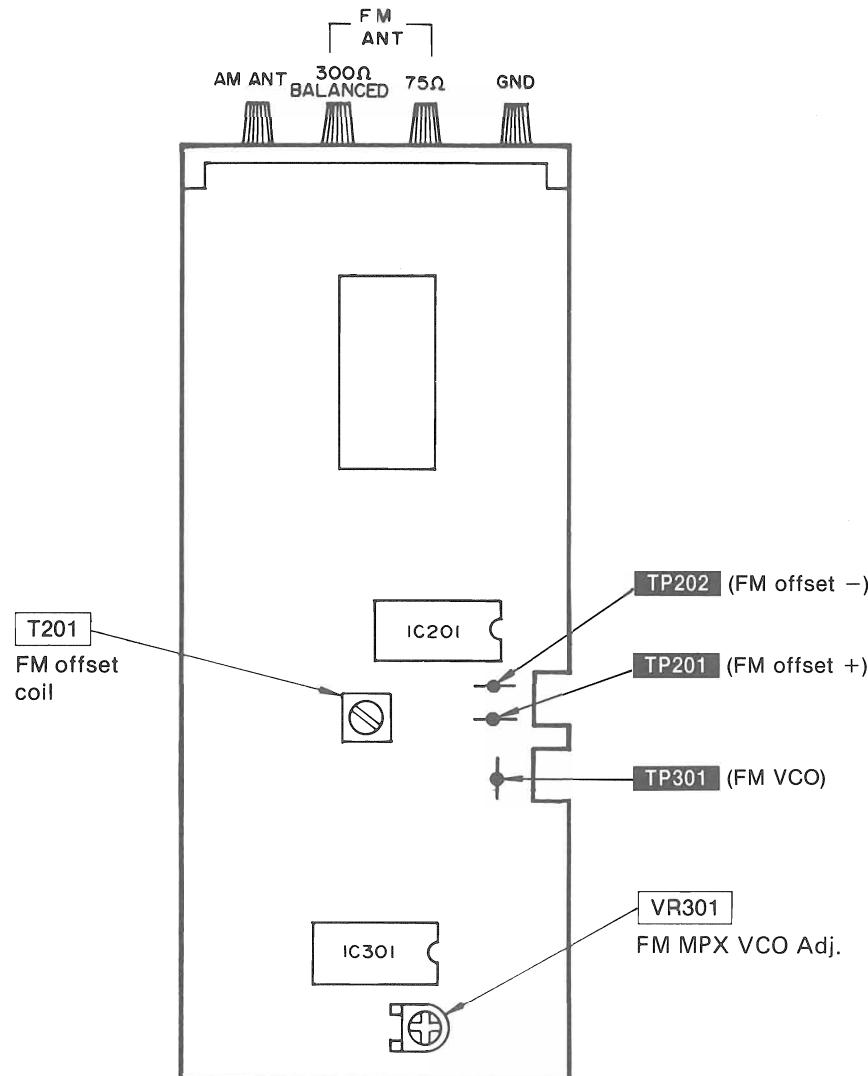
After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

Current consumption at 120V, 60Hz in NO SIGNAL mode should be 200 ~ 500 mA.

## ■ MEASUREMENTS AND ADJUSTMENTS

**Note:** For Z202 (AM-IFT), and Z201(AM ANT and OSC coil), they are supplied as adjusted parts. So, do not turn the cores of the parts. It is not necessary to adjust the AM circuit.

### • ADJUSTMENT POINTS



## • FM ADJUSTMENT

### Control positions and equipment used

- FM signal generator (FM-SG).
- Distortion analyser
- Oscilloscope
- DC electronic voltmeter (EVM)
- Frequency counter
- Choke coil (100 $\mu$ H)
- Resistor (100 k $\Omega$ )

### FM MONO DISTORTION ADJUSTMENT

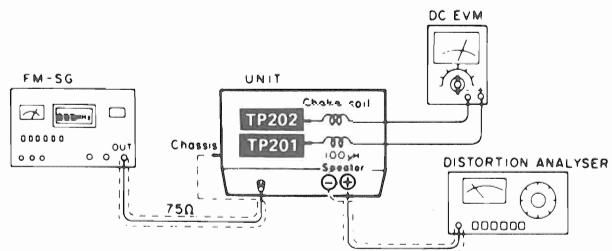
1. Test equipment connection is shown in figure.
2. Set the unit to "FM" position.
3. Set the radio frequency display and signal generator to 100.10 MHz.
4. Adjust T201 core so that voltage measured in signal mode is 0mV ( $0\pm20$ mV) in 300mV range.
5. Repeat step 4 a few times.
6. Make sure that the distortion factors of Lch and Rch are nearly the same with each other to minimum.

#### Note:

The adjusting screwdriver used should be made of resin.

#### FM SIGNAL GENERATOR CONDITION

Modulation ..... 100%  
Modulation frequency ..... 1 kHz  
(MONO)  
Output level ..... 66dB

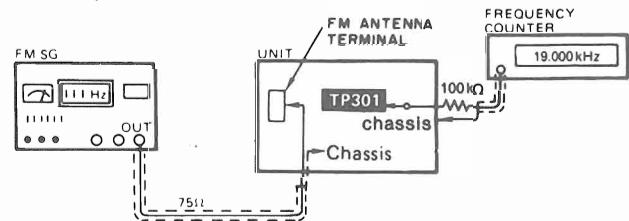


### FM MPX VCO ADJUSTMENT

1. Test equipment connection is shown in figure.
2. Set the unit to "FM auto" position.
3. Place the radio frequency display and signal generator setting to 100.10 MHz.
4. Adjust VR301 for  $19.00 \pm 0.03$  kHz on frequency counter reading.

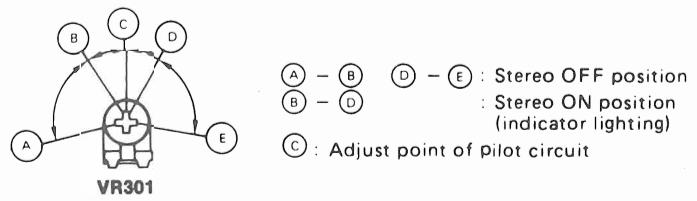
#### FM SIGNAL GENERATOR CONDITION

Modulation ..... 0%  
(non-modulation)  
Output level ..... 66dB



### ★ USING ALTERNATE SYSTEM

1. Apply stereo signal from generator or receive the stereo broadcast.
2. Adjust VR301 until stereo indicator lights up.  
Cement arm of VR301 as shown in figure.



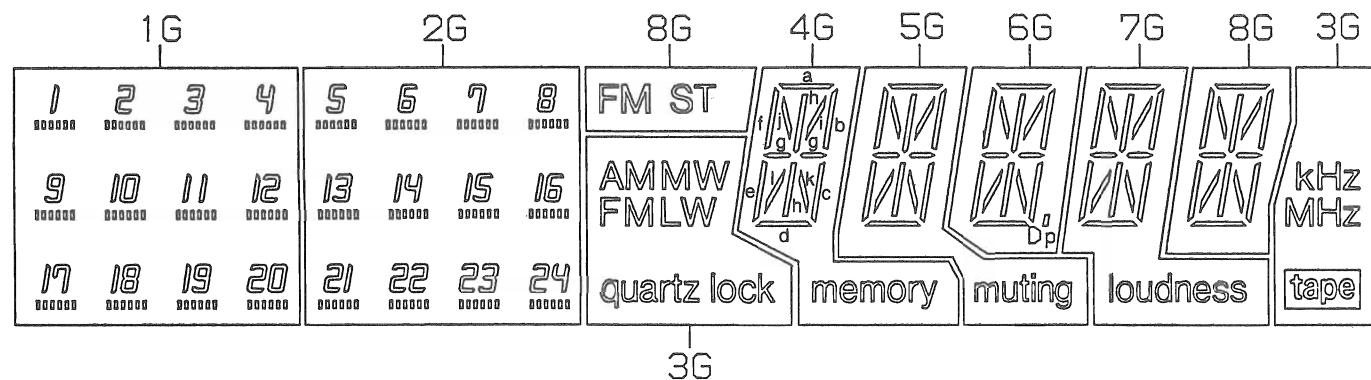
## ■ TERMINAL FUNCTION OF IC

- IC901 (LC6554H4280): Microcomputer

Pin No.	Mark	I/O Division	Function	Pin No.	Mark	I/O Division	Function
1	S13	O	Segment signal output	33	ST	O	Level shift control output
2 5	PA0 PA3	I	Key return signal input	34	L	—	Not used, connected to GND
6 8	PB0 PB2	I	Key return signal input	35	V	—	—
9	STAND BY	I	Power supply terminal	36	TUNING 0	O	LED drive control signal for rotary tuning (Not used, connected to GND)
10	OFF	I	Power ON/OFF det. terminal (Not used, open)	37	TUNING 1	O	—
11	STEREO	I	Stereo signal det. terminal	38	LOUDNESS	O	Loudness ON/OFF signal output
12	SD	I	Received signal det. terminal	39	R	O	Volume motor drive output
13	DP	I/O	Cassette deck control terminal	40	F	O	—
14	RELAY	O	Relay control output	41	A	O	Rotary tuning control signal output (Not used, connected to GND)
15	DECK	I	Cassette deck control terminal (Not used, connected to GND)	42	B	O	—
16	OPT1 (IN)	—	Not used, connected to GND	43	Vp	I	Power supply terminal (negative voltage)
17	OPT1 (OUT)	—	—	44	S1	O	Segment signal output
18	MONO	O	FM AUTO/MONO select signal output	55	S12	O	—
19	RFM	O	Muting control output for tuner circuit	56	VDD	I	Power supply terminal (positive voltage)
20	AT	O	Muting control output for amplifier circuit	57	D1	O	Digit signal and key scan signal output
21	AFM	O	Muting control output for amplifier circuit	64	D8	O	—
22	TEST	—	Not used, connected to GND				—
23	Vss	—	Ground terminal				—
24	OSC1	I	Oscillator terminal				—
25	OSC2	O	—				—
26	RES	I	Reset signal input				—
27	DATA (PF0)	O	Serial data output				—
28	CL (PF1)	O	Clock signal terminal for serial data				—
29	CE (PF2)	I/O	Chip enable terminal				—
30	INT	I	Remote control input				—
31	L	—	Not used, connected to GND				—
32	L	—	Not used, connected to GND				—

## ■ INTERNAL CONNECTION OF FL

### • Grid assignment diagram



### • Anode connection table

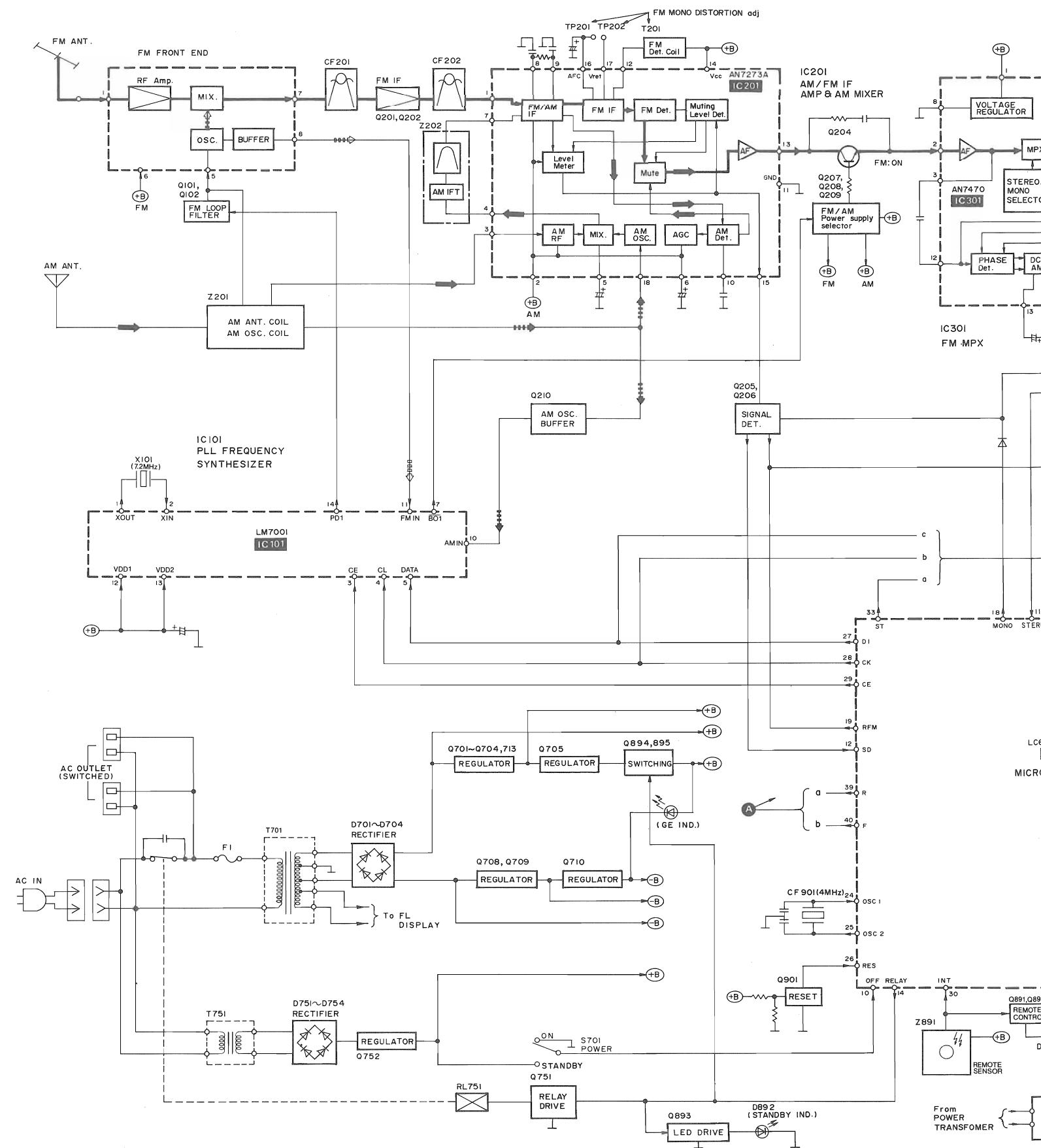
	1G	2G	3G	4G	5G	6G	7G	8G
a	.....(1)	.....(5)	KHz	a	a	a	a	a
b	.....(10)	.....(14)	LW	b	b	b	b	b
c	.....(17)	.....(21)	quartz lock	c	c	c	c	c
d	.....(19)	.....(23)	-	d	d	d	d	d
e	.....(12)	.....(16)	tape	e	e	e	e	e
f	.....(9)	.....(13)	FM	f	f	f	f	f
g	.....(11)	.....(15)	-	g	g	g	g	g
h	.....(3)	.....(7)	AM	h	h	h	h	h
i	.....(4)	.....(8)	MW	i	i	i	i	i
j	.....(2)	.....(6)	MHz	j	j	j	j	j
k	.....(20)	.....(24)	-	k	k	k	k	k
l	.....(18)	.....(22)	-	l	l	l	l	l
m	1~4 9~12 17~20	5~8 13~16 21~24	-	memory	muting	D.P	loudness	FM ST

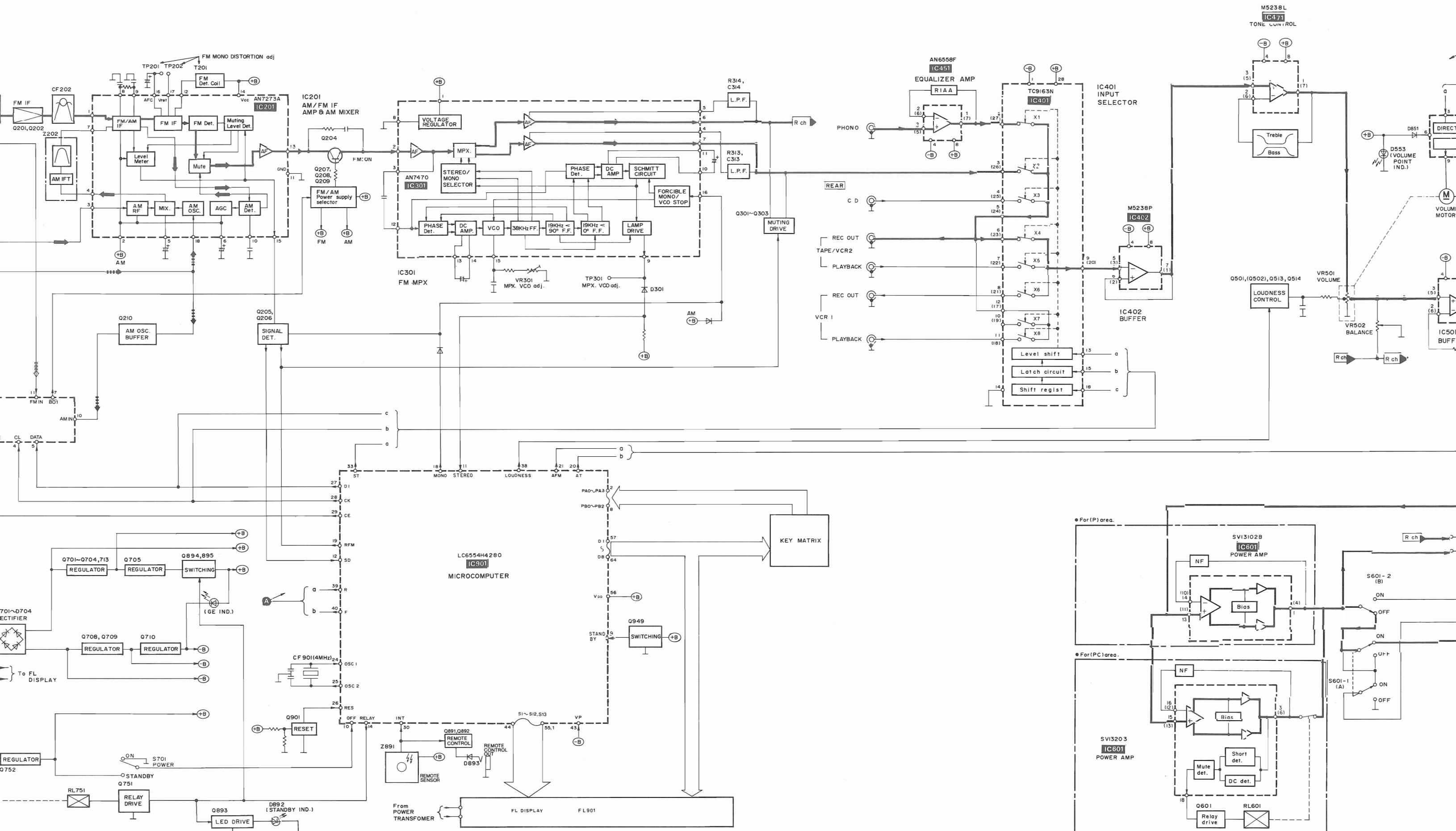
### • Pin connection

PIN NO.	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1									
CONNECTION	N	F	N	P	N	P	N	P	k	d	l	c	e	g	b	f	i	h	j	a	N	P	N	P	N	P	N	P	N	G	1	2	3	4	5	6	7	G	m	N	P	N	P	N	F	1	N	P

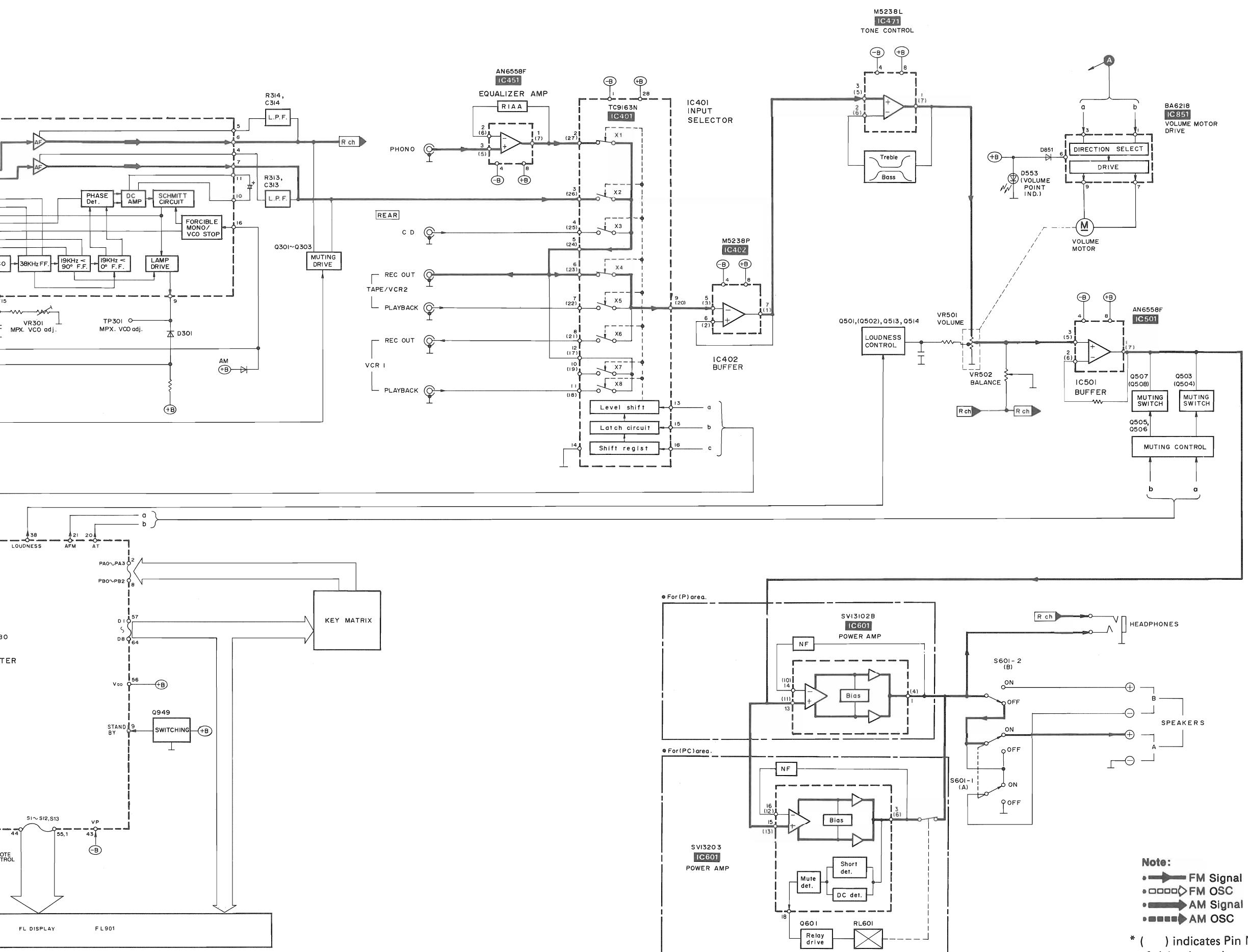
Note 1.) NP : No pin.  
2.) 1G~8G : Grid  
3.) F1,F2 : Filament

## ■ BLOCK DIAGRAM





## ■ TERMINAL GUIDE OF IC'S, TRANSISTERS AND DIODES



Note:  
 • → FM Signal  
 • □ → FM OSC  
 • → AM Signal  
 • → AM OSC  
 \* ( ) indicates Pin No. of right channel.

LC6554H4280 64 PIN	
SVI3102B 14 PIN	
SVI3203 18 PIN	
M5238P 8 PIN	
AN6558F 8 PIN	
LM7001 8 PIN	
TC9163N 28 PIN	
BA6218 9 PIN	
M5238L 8 PIN	
2SA933QRSTA 2SC2785ETA 2SC2787LTA 2SD1450QRSTA 2SC3327ABTP 2SC3311AQSTA 2SA1309AQSTA	
2SA992EF 2SC1740SQSTA 2SC3940AQSTA	
2SJ40CDTA UN4113TA	
UN4211TA UN4214TA	
2SB1185DEF 2SD1761DEF	
2SB1240PRTV6	
MA165TA MA29WATA SVDS5688GT3 1SS291TA Anode P300DLF	
LN846RP-LS	
MA4051MTA MA4062MTA MA4150MTA MA4068MTA MA4110MTA MA4270MTA	

# SCHEMATIC DIAGRAM

(Parts list on pages 40~44)

(This schematic diagram may be modified at any time with the development of new technology.)

Note 1:

- S601-1, S601-2 : Speaker selectors switch.  
S601-1: A S601-2: B  
: Power "Standby ↓/on" switch.
- S701 : Preset-tuning (1-0) switches.  
[S901 : CH1, S902 : CH2, S903 : CH3,  
S904 : CH4, S905 : CH5, S906 : CH6,  
S907 : CH7, S908 : CH8, S909 : CH9,  
S910 : CHO]
- S911 : Memory scan/group-search switch.  
: FM mode selector.
- S912 : Band selectors.  
S913 : FM, S914 : AM
- S915, S916 : Tuning switches.  
S915 : down, S916 : up
- S917 : Memory switch.
- S918 : Loudness switch.
- S919 ~ S926 : Group registration switches.  
[S919 : start, S920 : rock, S921 : jazz  
S922 : classic, S923 : easy, S924 : news  
S925 : other, S926 : end]
- S927 ~ S929, S932 : Input selector switches.  
[S927 : phono, S928 : tuner, S929 : CD,  
S932 : VCR1]
- S931 : Tape-monitor/VCR 2 switch.
- Signal line
  - : FM OSC
  - : AM OSC
  - : FM signal
  - : AM signal
  - : Phono signal
  - : AF signal (Lch)
  - : Positive voltage lines
  - - - : Negative voltage lines

**Important safety notice:**  
 Components identified by  $\Delta$  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts. Indicated voltage values are standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on internal impedance of the DC circuit tester.

**All voltage values shown in circuitry are DC voltage in FM signal (Stereo signal) reception mode.**

\* Figures in ( ) Stand for DC-voltage in AM signal reception mode.

**\* Caution!**

IC and LSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

\* Cover the parts boxes made of plastics with aluminum foil.

\* Ground the soldering iron.

\* Put a conductive mat on the work table.

\* Do not touch the legs of IC or LSI with the fingers directly.

**Note 2:**

- Use of ceramic filters in pairs

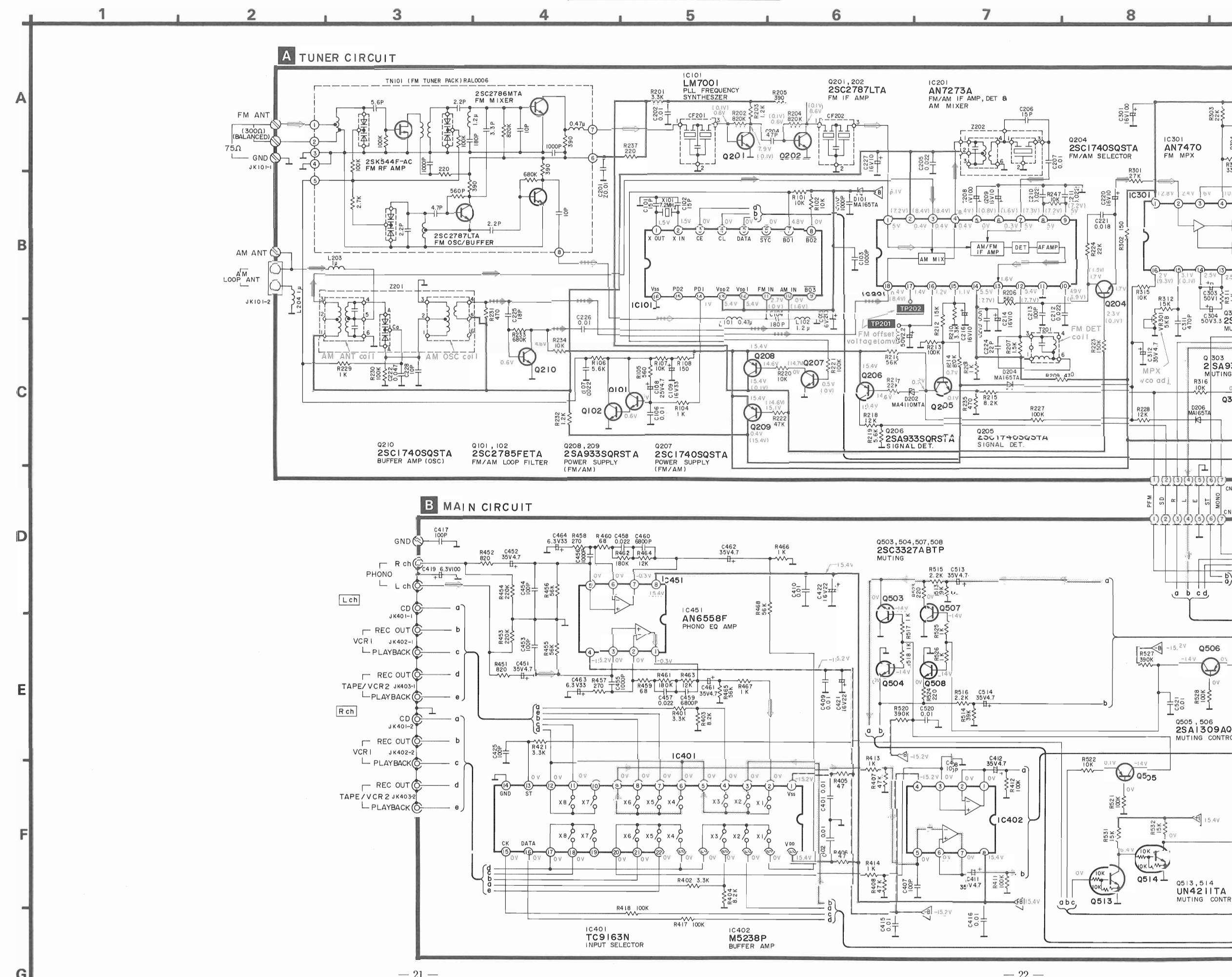
The ceramic filters (CF201, CF202) for FM-IF circuit are available in three ranks. For this circuit, be sure to use the ceramics of the same rank in a pair.

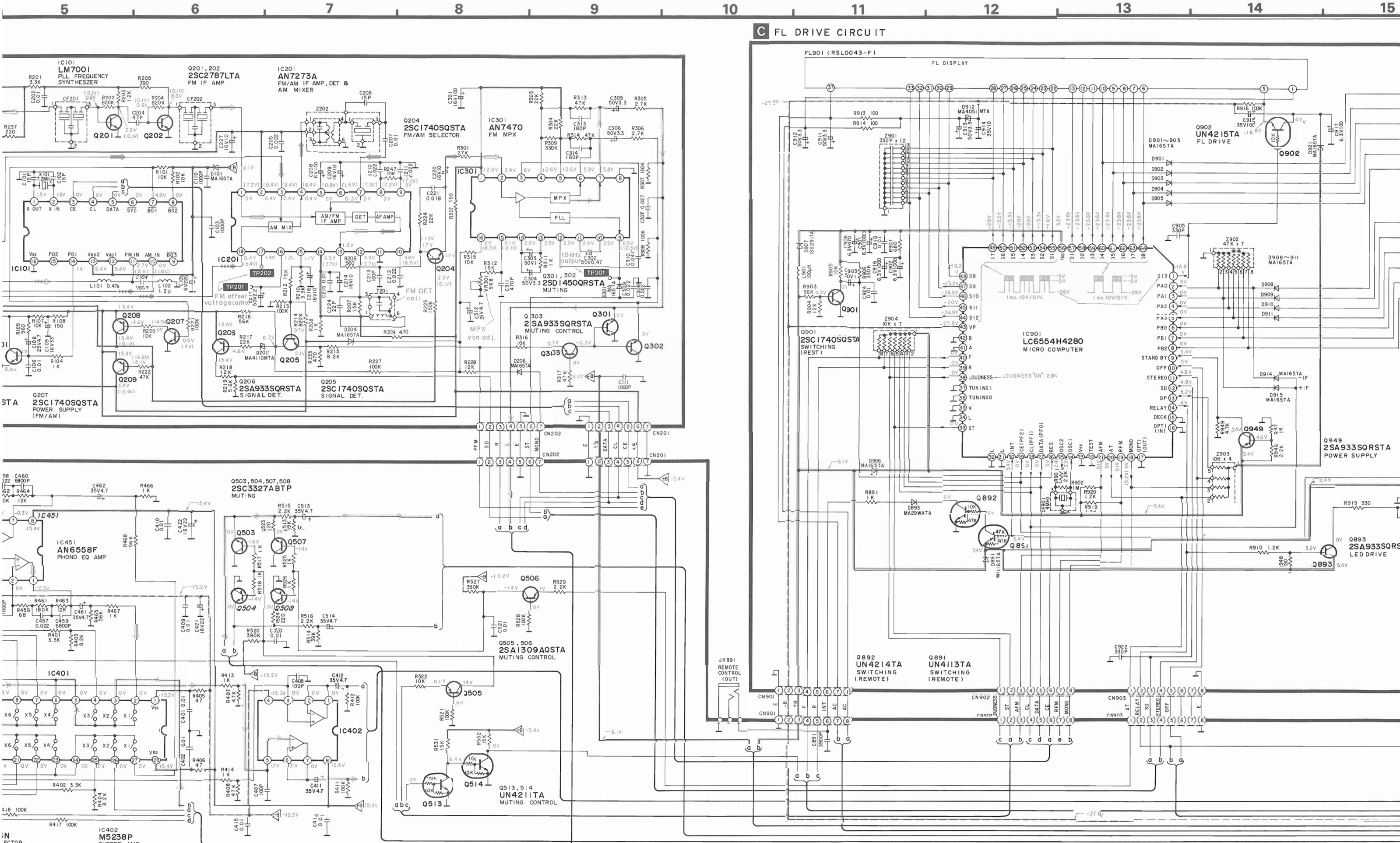
At repairing and replacement, pay close attention to the diodes (D914, D915) for use as different diodes must be used depending on each rank of the ceramic filters.

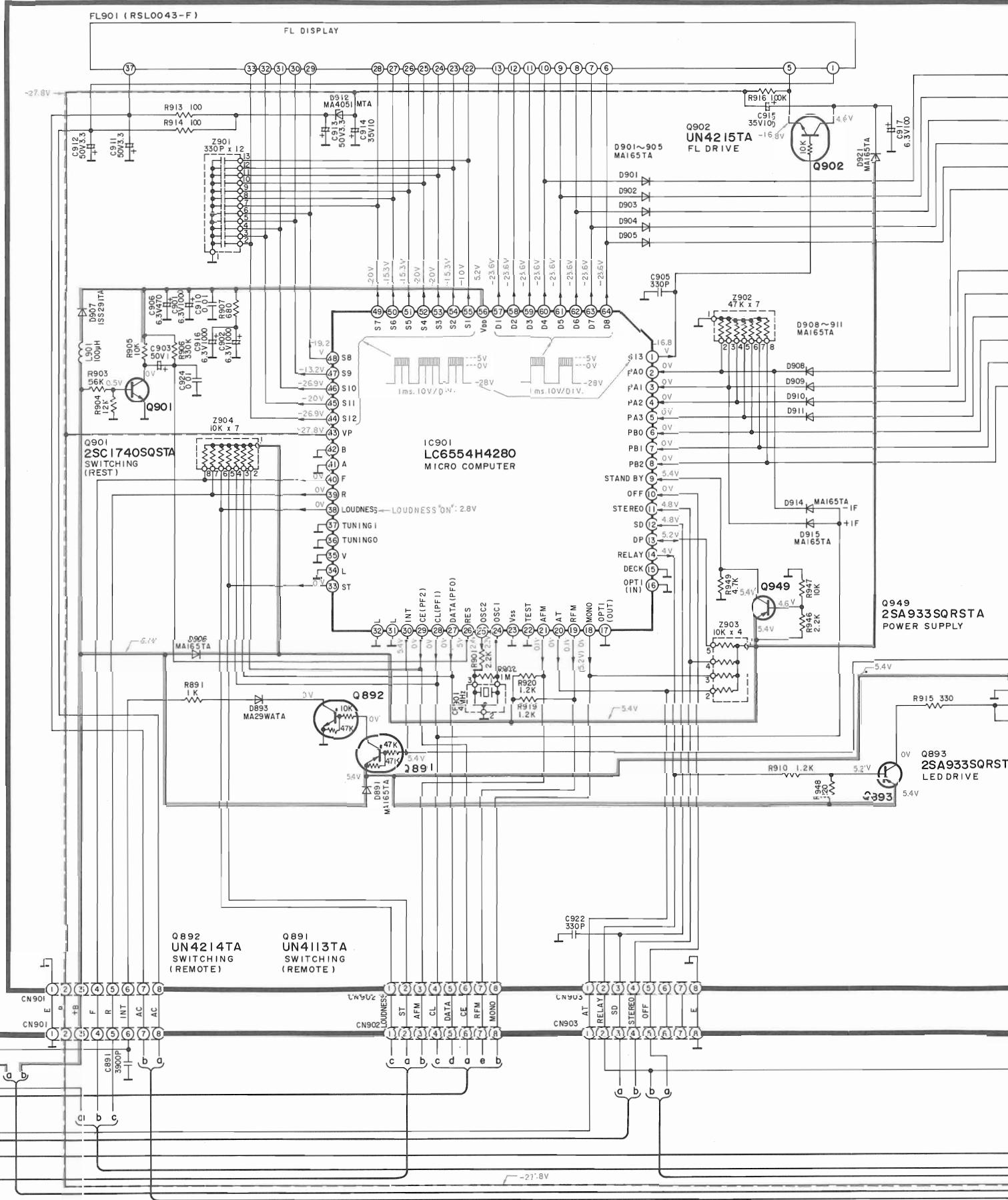
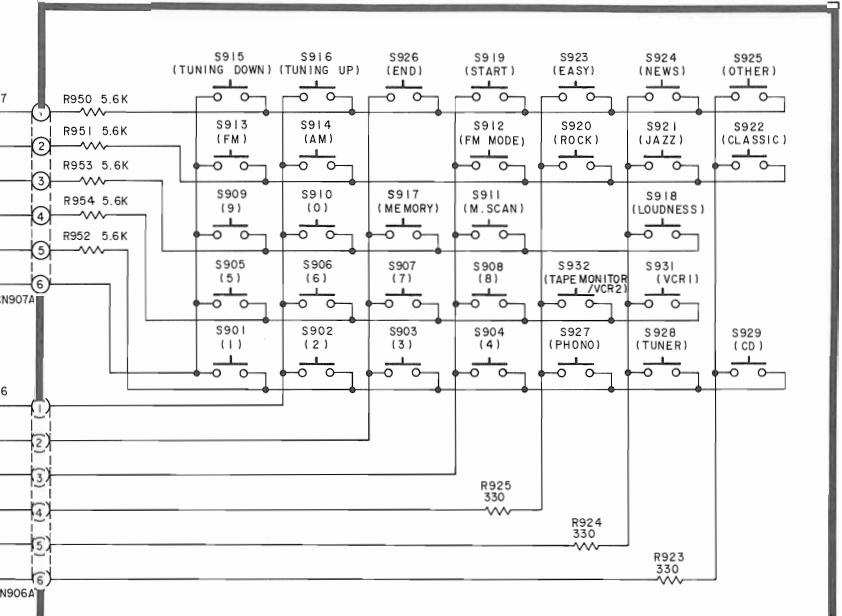
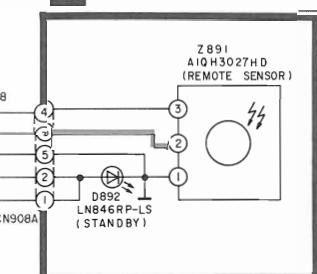
Color marking  
(Blue, Red or  
Orange)

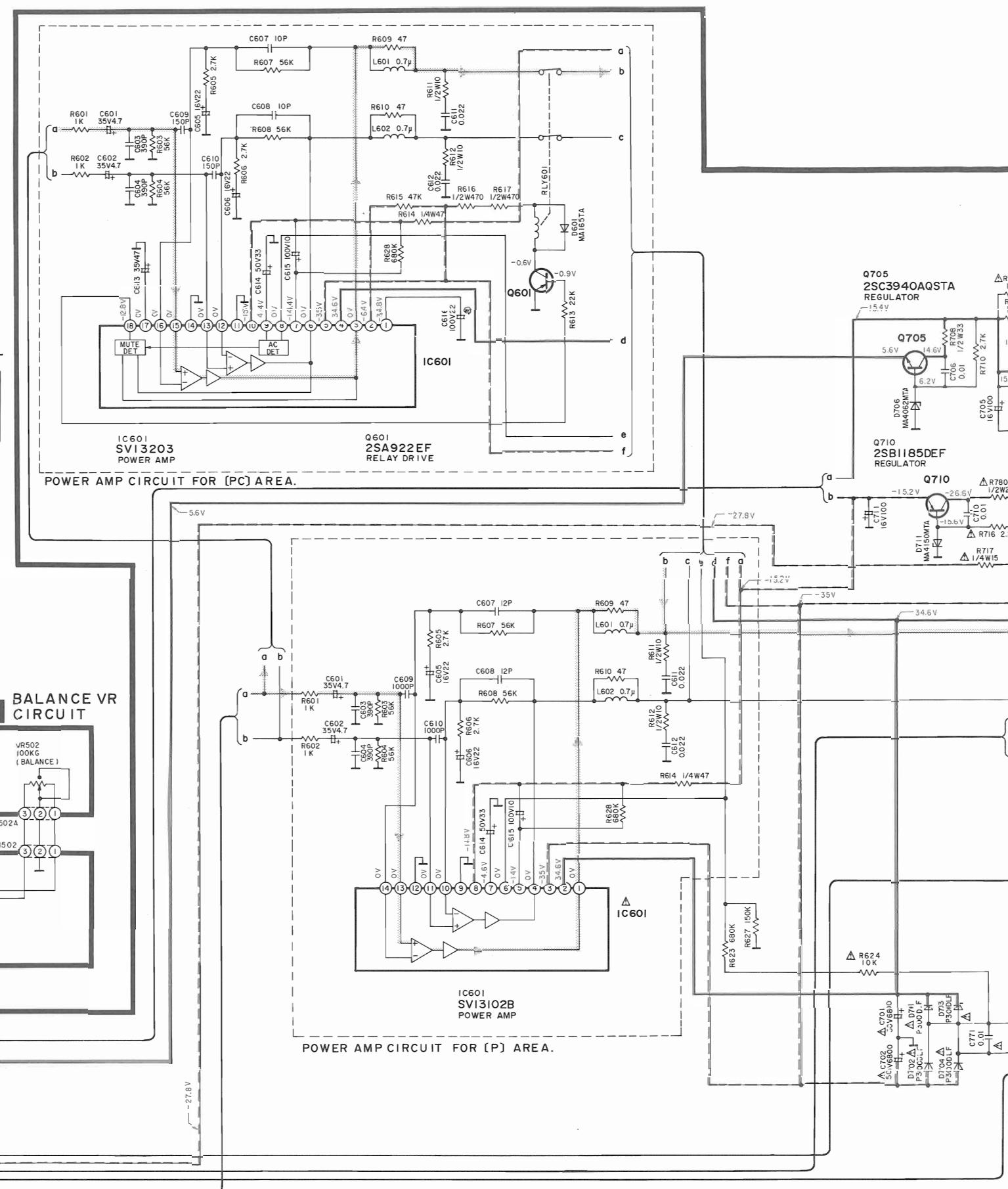
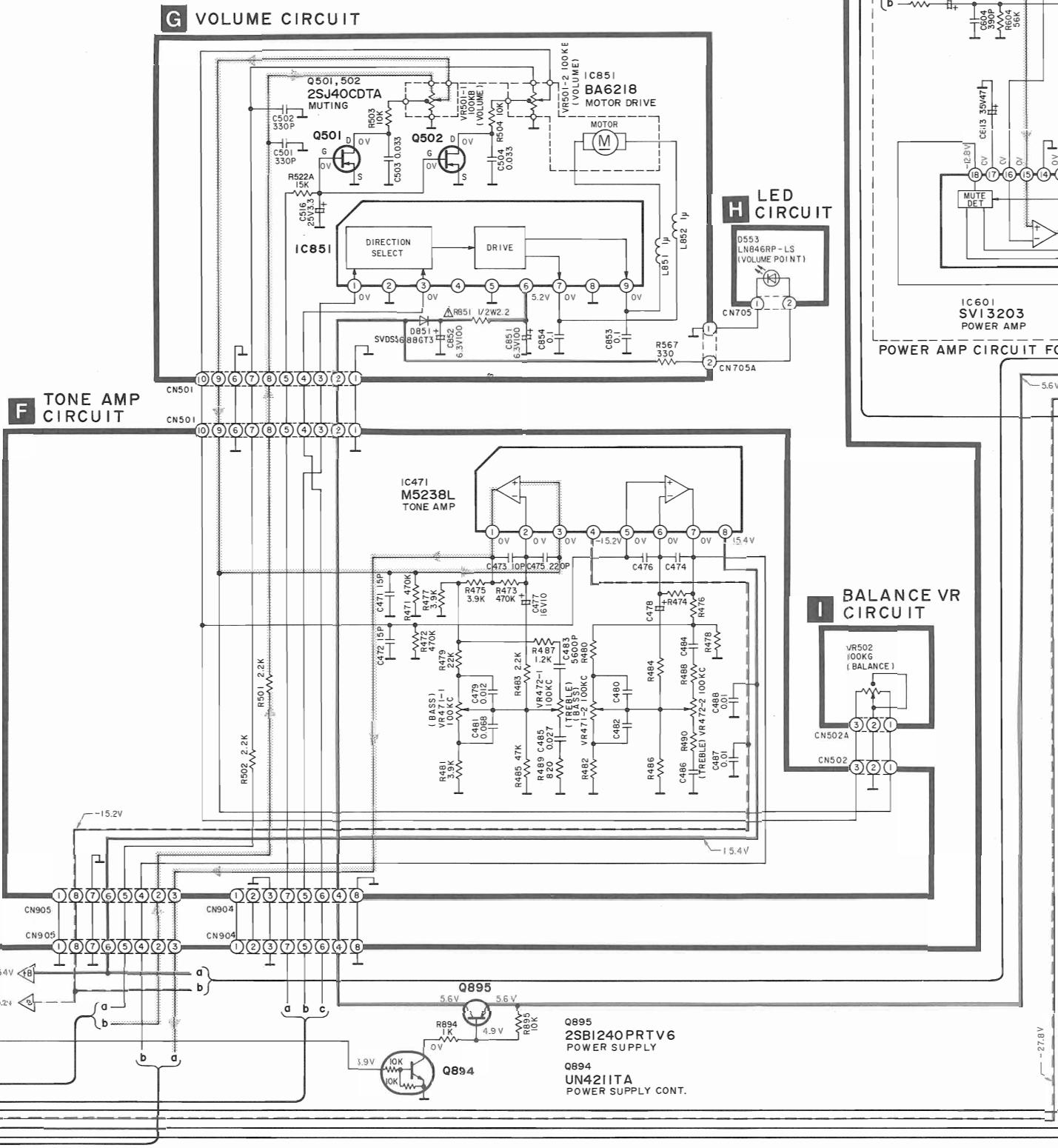
RANK (Color)	D914	D915	CENTER FREQUENCY
Blue	○	×	10.675MHz
Red	×	×	10.700MHz
Orange	×	○	10.725MHz

Note: ○ mark: Diode is used.  
× mark: Diode is not used.

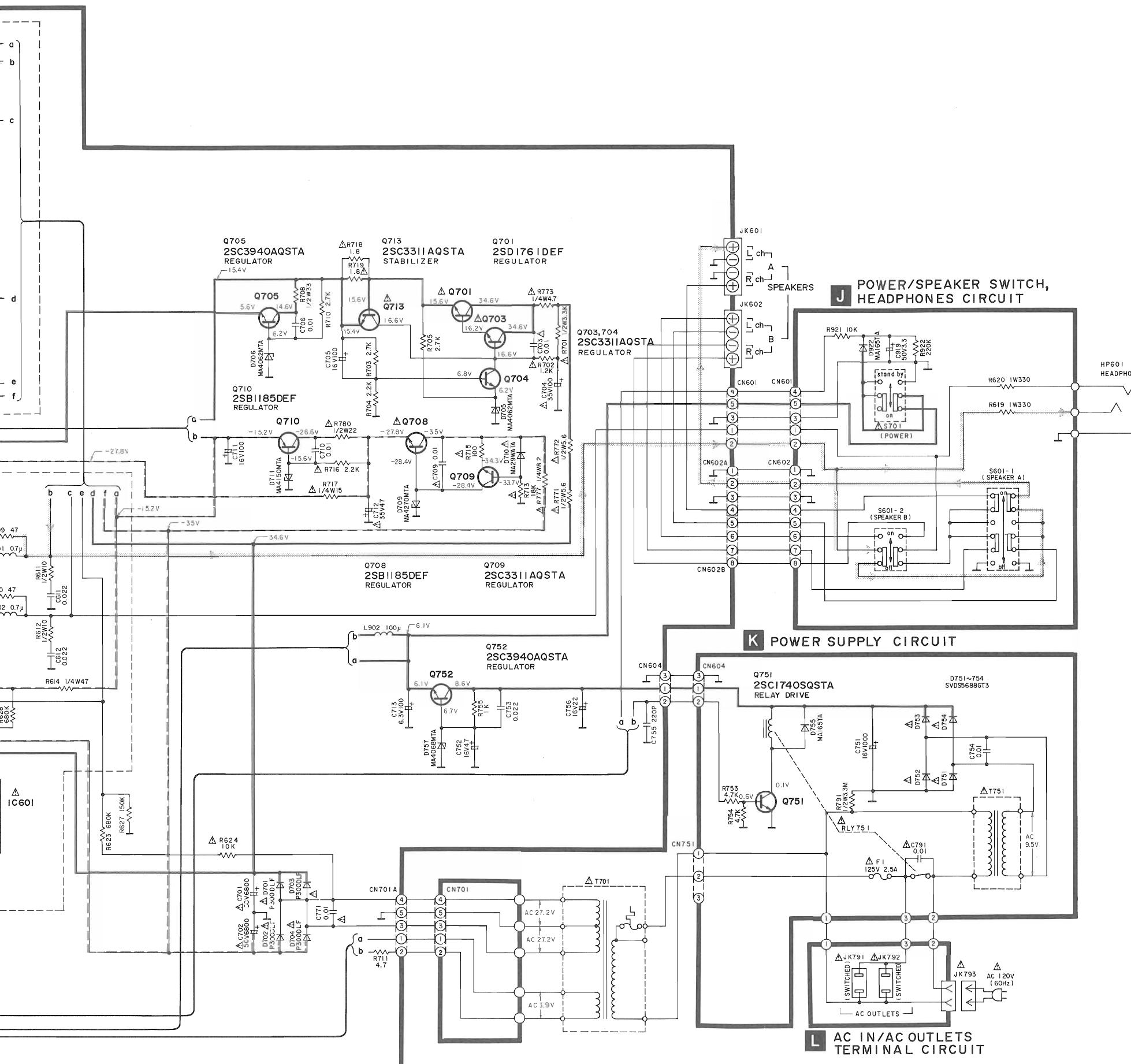




**C FL DRIVE CIRCUIT****D OPERATION CIRCUIT****E REMOTE SENSOR CIRCUIT**



29      30      31      32      33      34      35      36      37      38



**CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE 2.5A 125V FUSE.**



RISK OF FIRE-REPLACE FUSE AS MARKED.

#### FUSE CAUTION

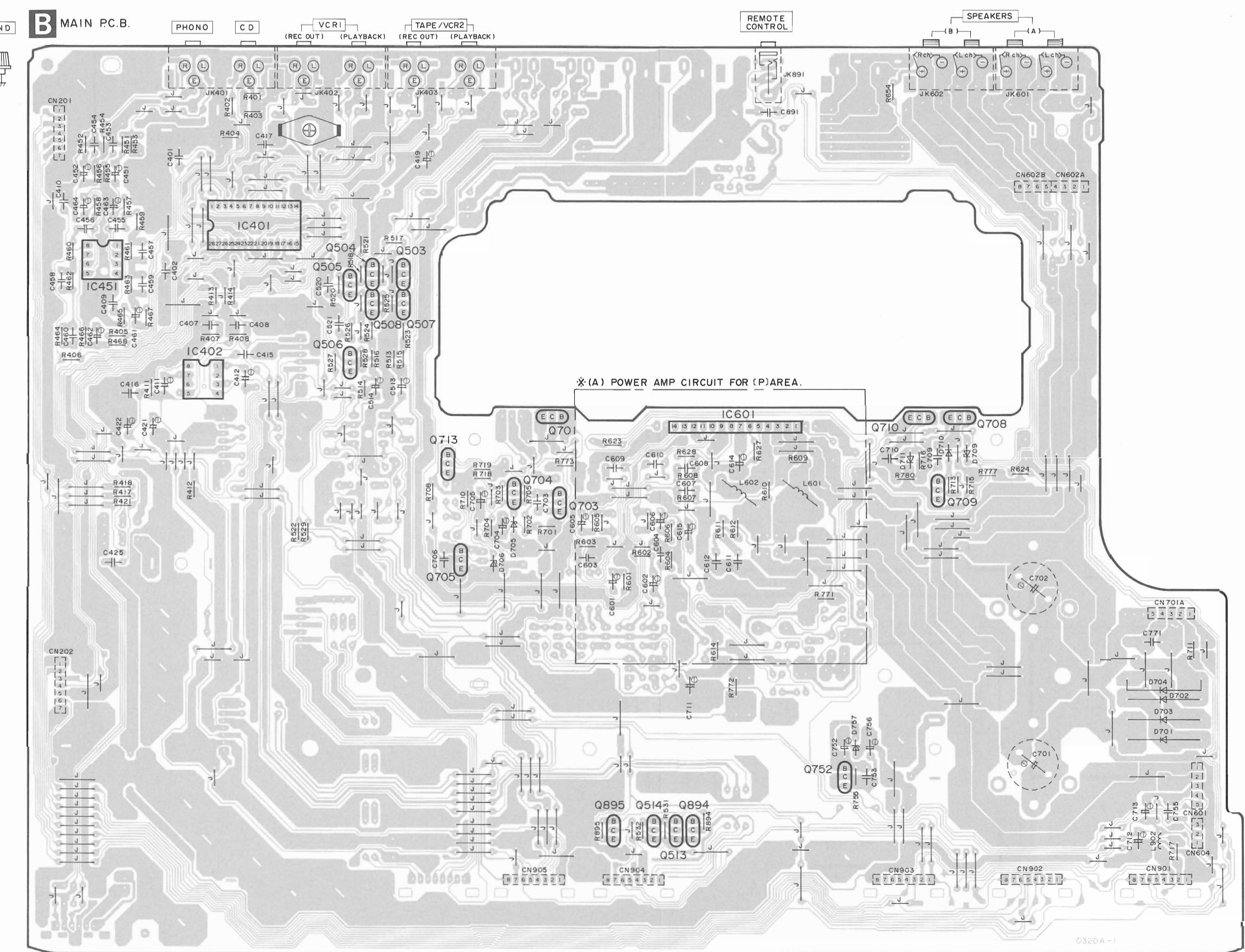
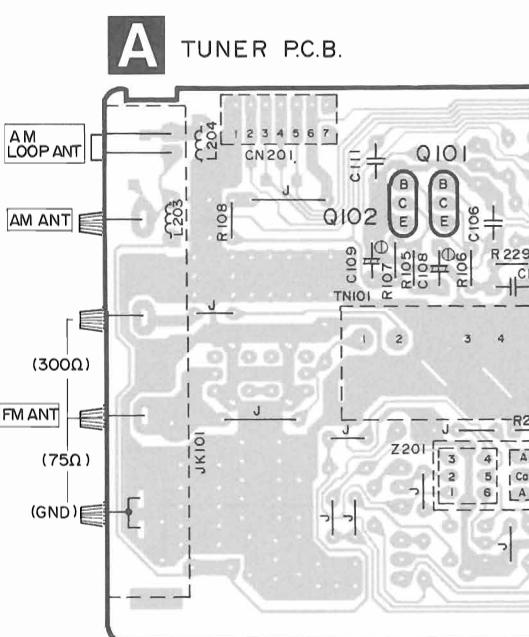
This symbol located near the fuse indicates that the fuse used is fast operating type. For continued protection against fire hazard, replace with same type fuse. For fuse rating, refer to the marking adjacent to the symbol.

Ce symbole indique que le fusible utilisé est à rapide. Pour une protection permanente, n'utiliser que des fusibles de même type. Ce dernier est indiqué là où le présent symbole est apposé.

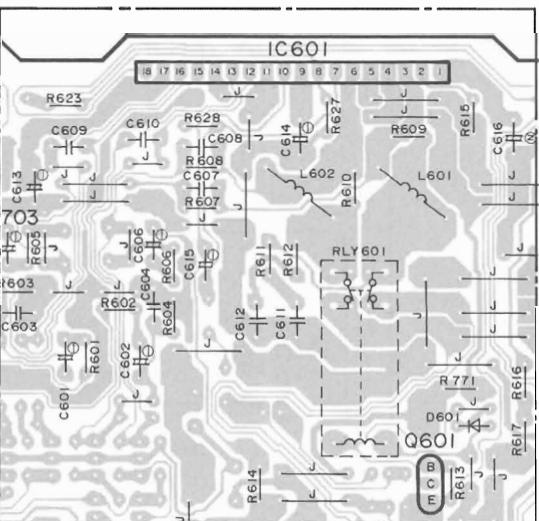
1 2 3 4 5 6 7 8 9 10 11

## PRINTED CIRCUIT BOARDS

A

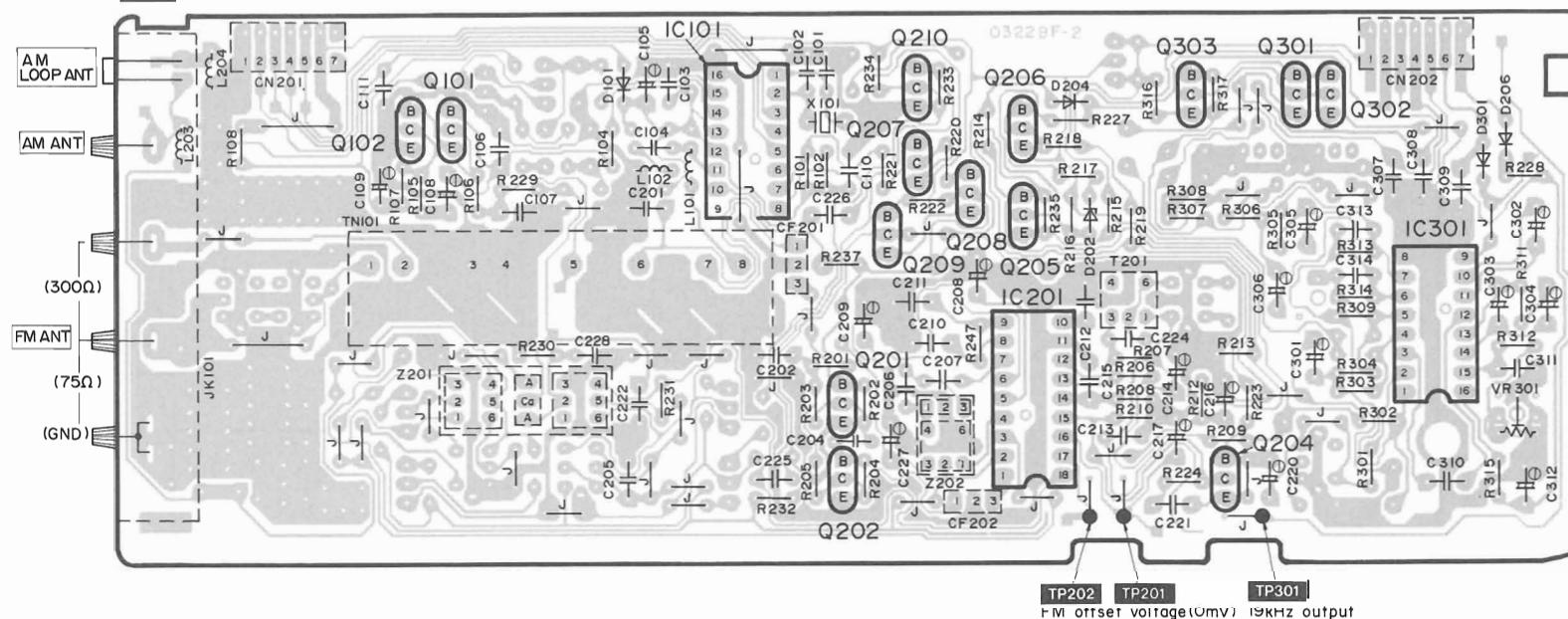
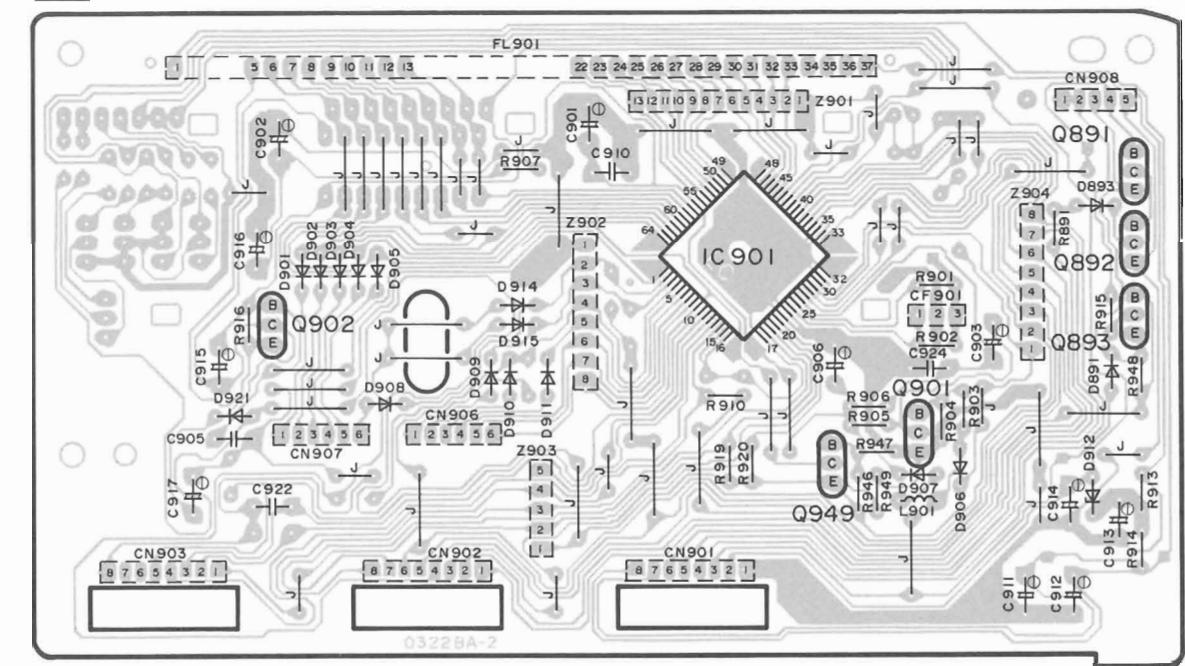
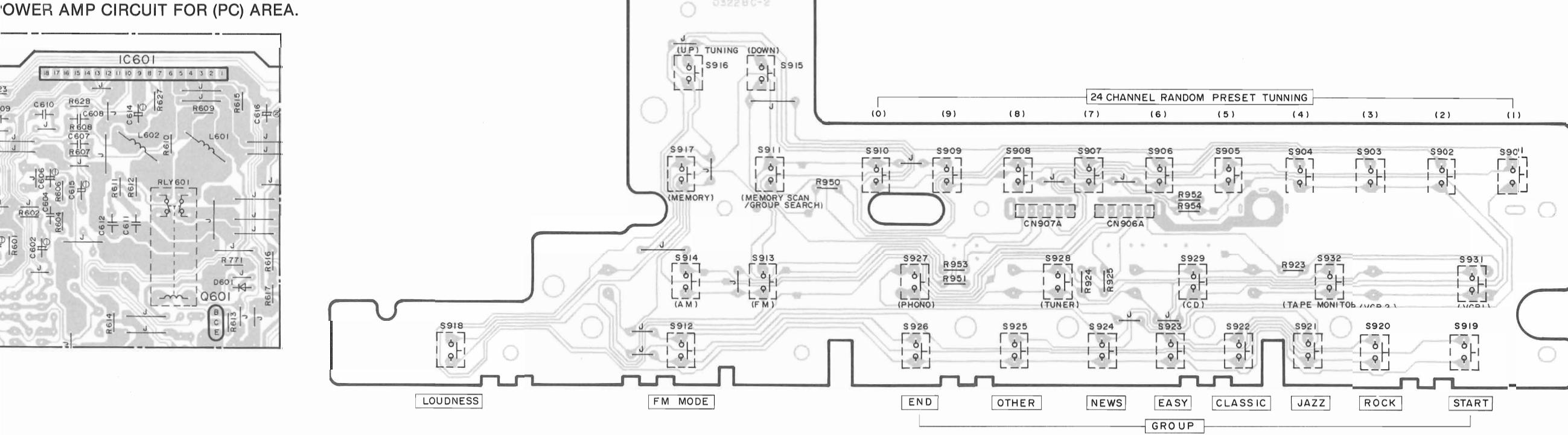
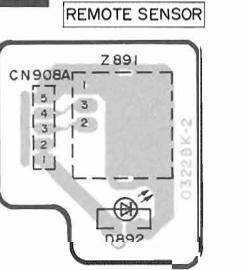
**A TUNER P.C.B.**

※(A) POWER AMP CIRCUIT FOR (PC) AREA.



G

10 11 12 13 14 15 16 17 18 19

**A** TUNER P.C.B.**C** FL DRIVE P.C.B.**D** OPERATION P.C.B.**E** REMOTE SENSOR P.C.B.

20

21

22

23

24

25

26

27

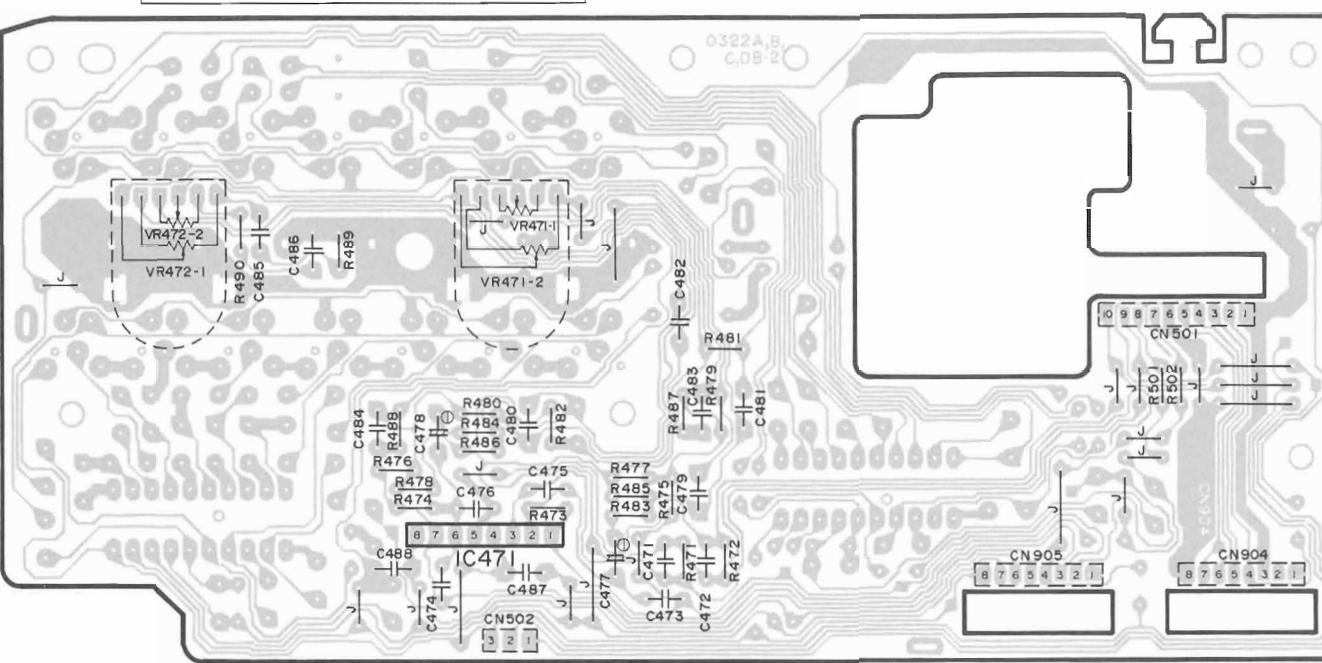
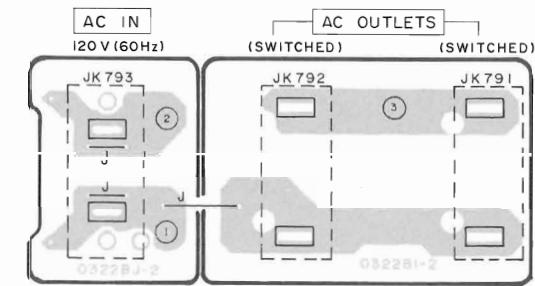
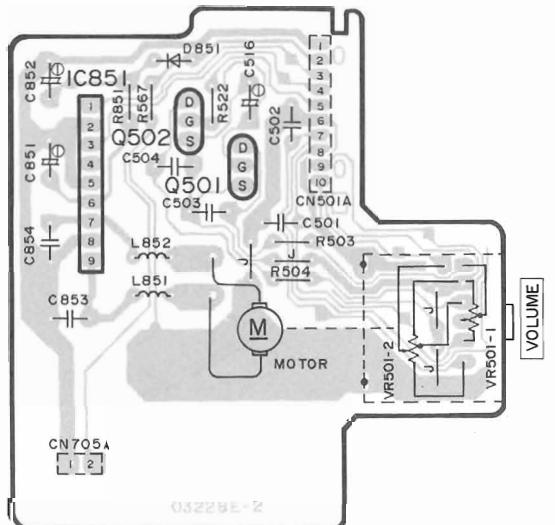
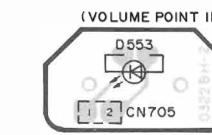
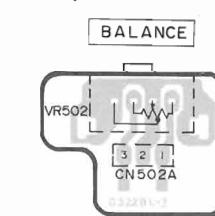
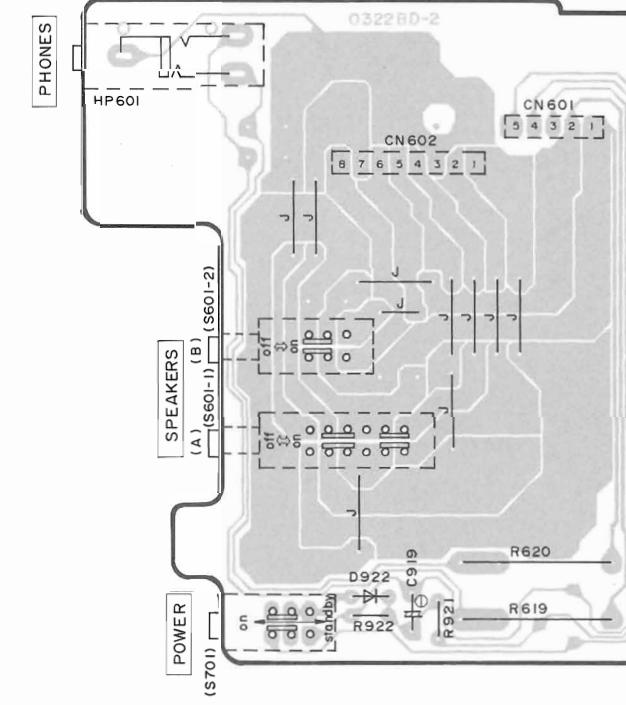
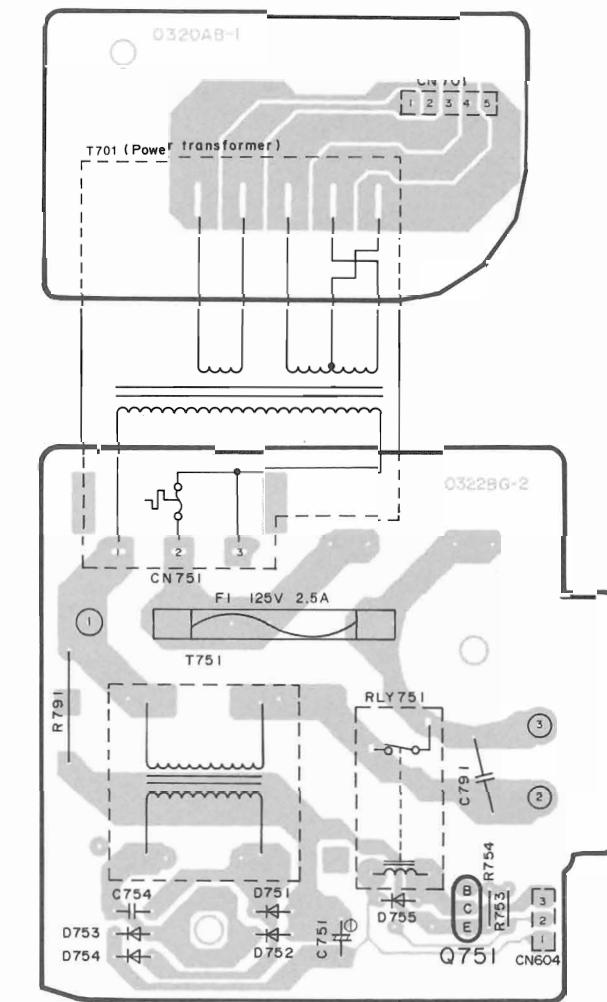
28

29

WIR

**F** TONE AMP P.C.B.

TREBLE — TONE CONTROL — BASS

**L** AC IN/AC OUTLETS TERMINAL P.C.B.**G** VOLUME P.C.B.**H** LED P.C.B.**I** BALANCE VR P.C.B.**J** POWER/SPEAKER SWITCH, HEADPHONES P.C.B.**K** POWER SUPPLY P.C.B.

24

25

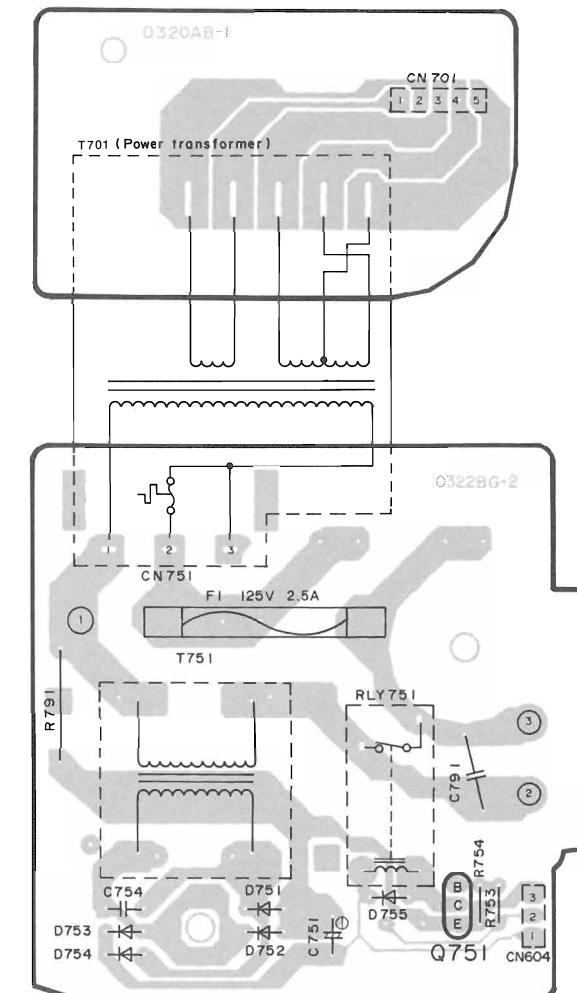
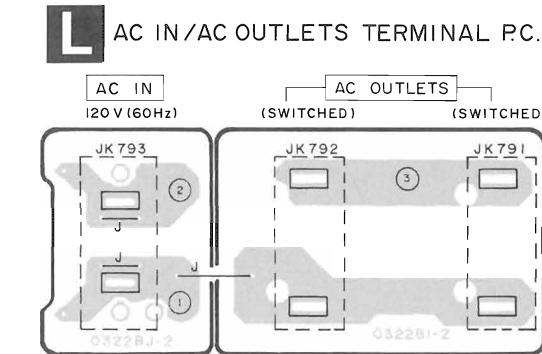
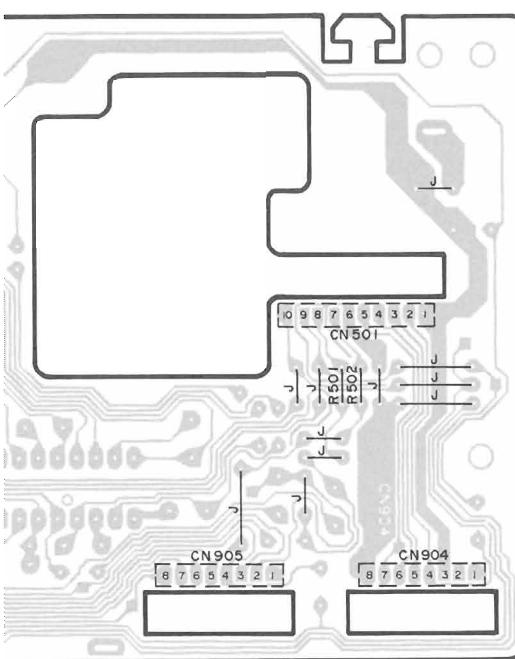
26

27

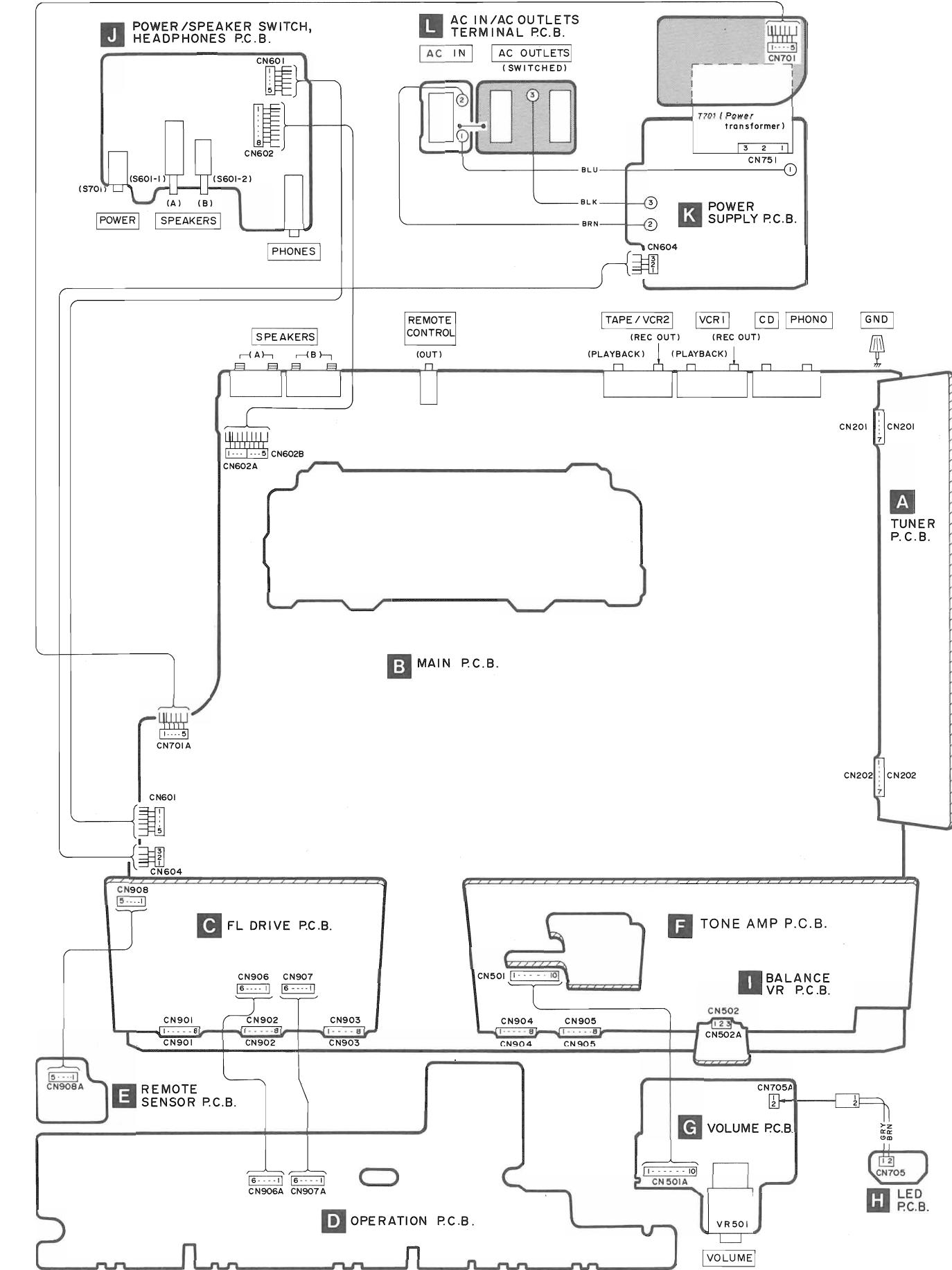
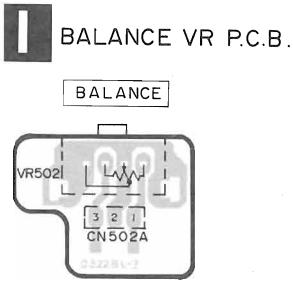
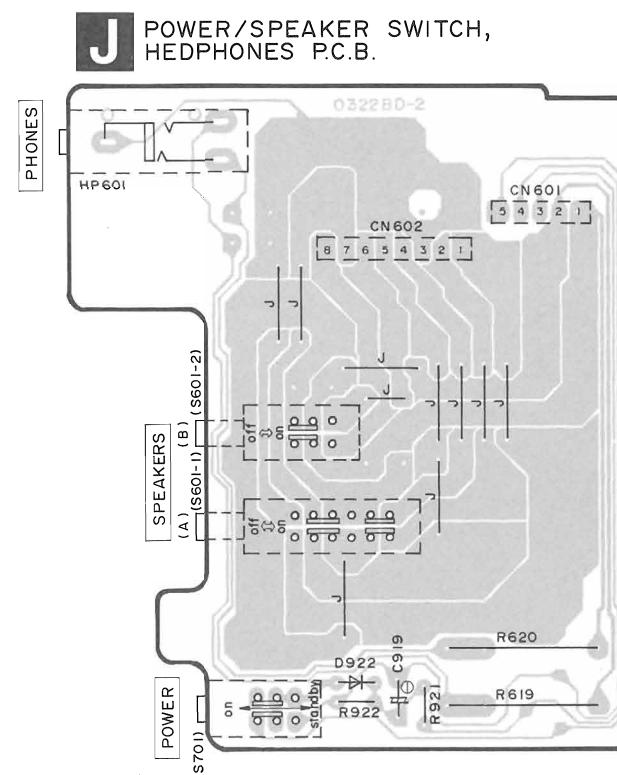
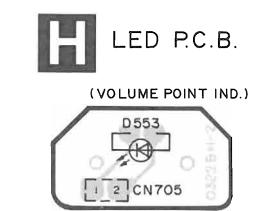
28

29

## WIRING CONNECTION DIAGRAM

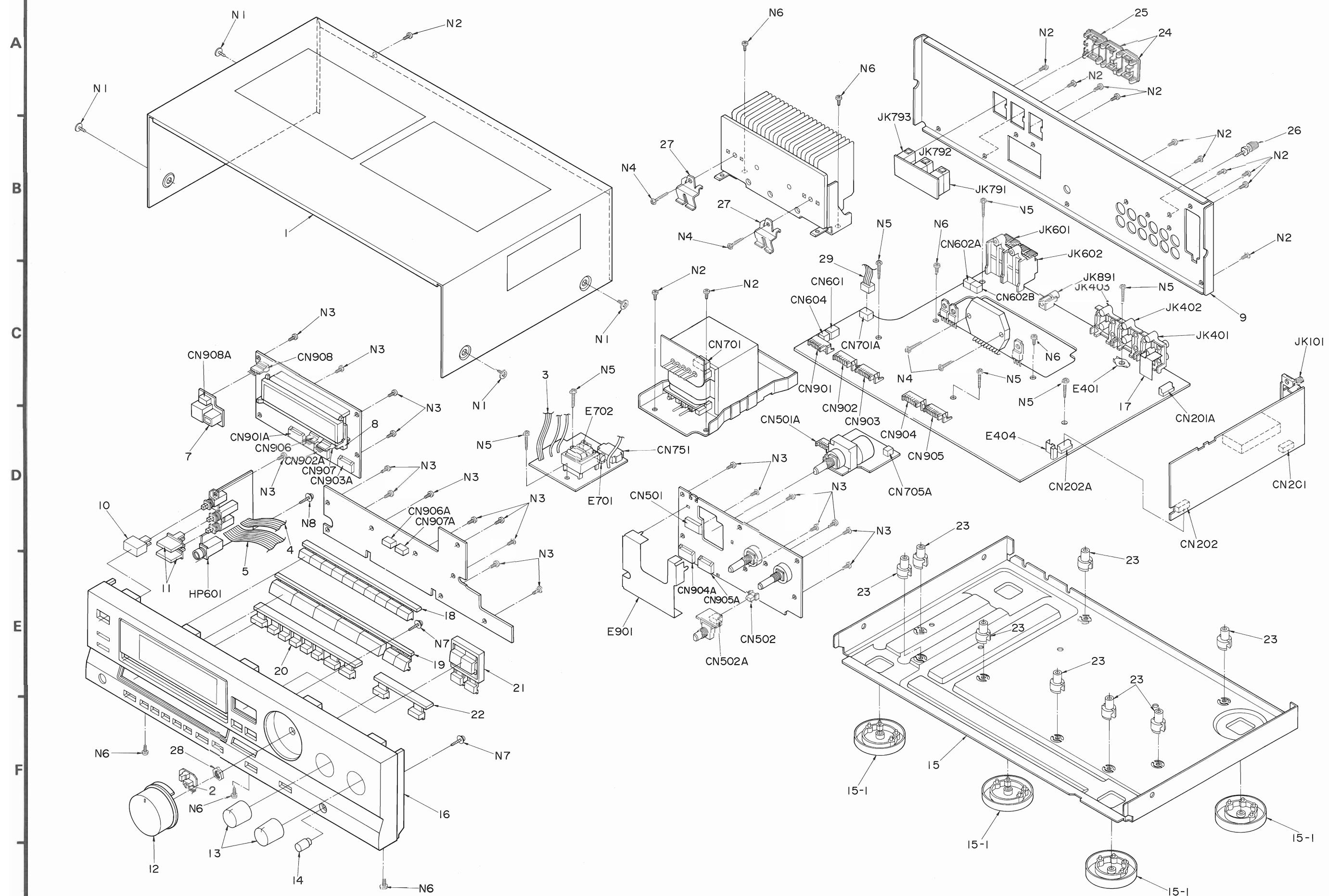


K POWER SUPPLY P.C.B.

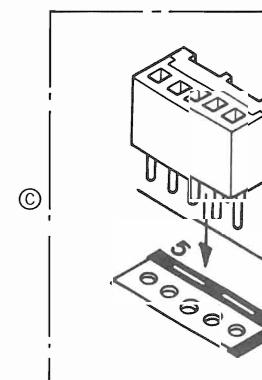


1 2 3 4 5 6 7 8 9 10

**EXPLDED VIEW**



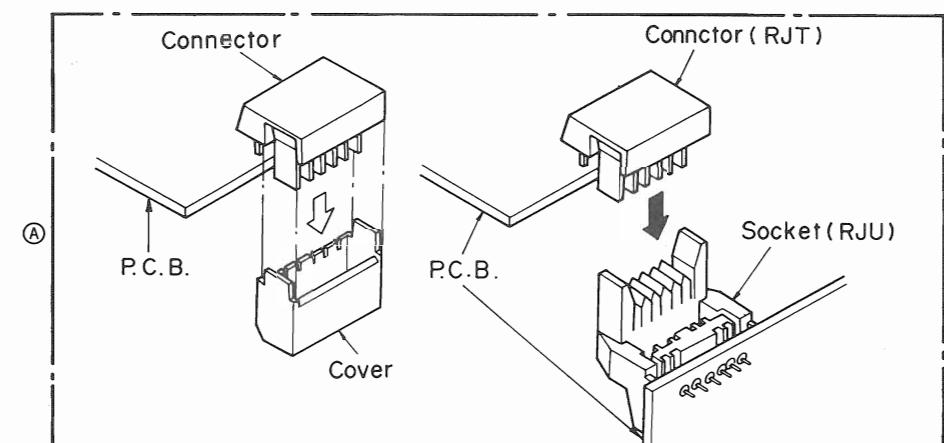
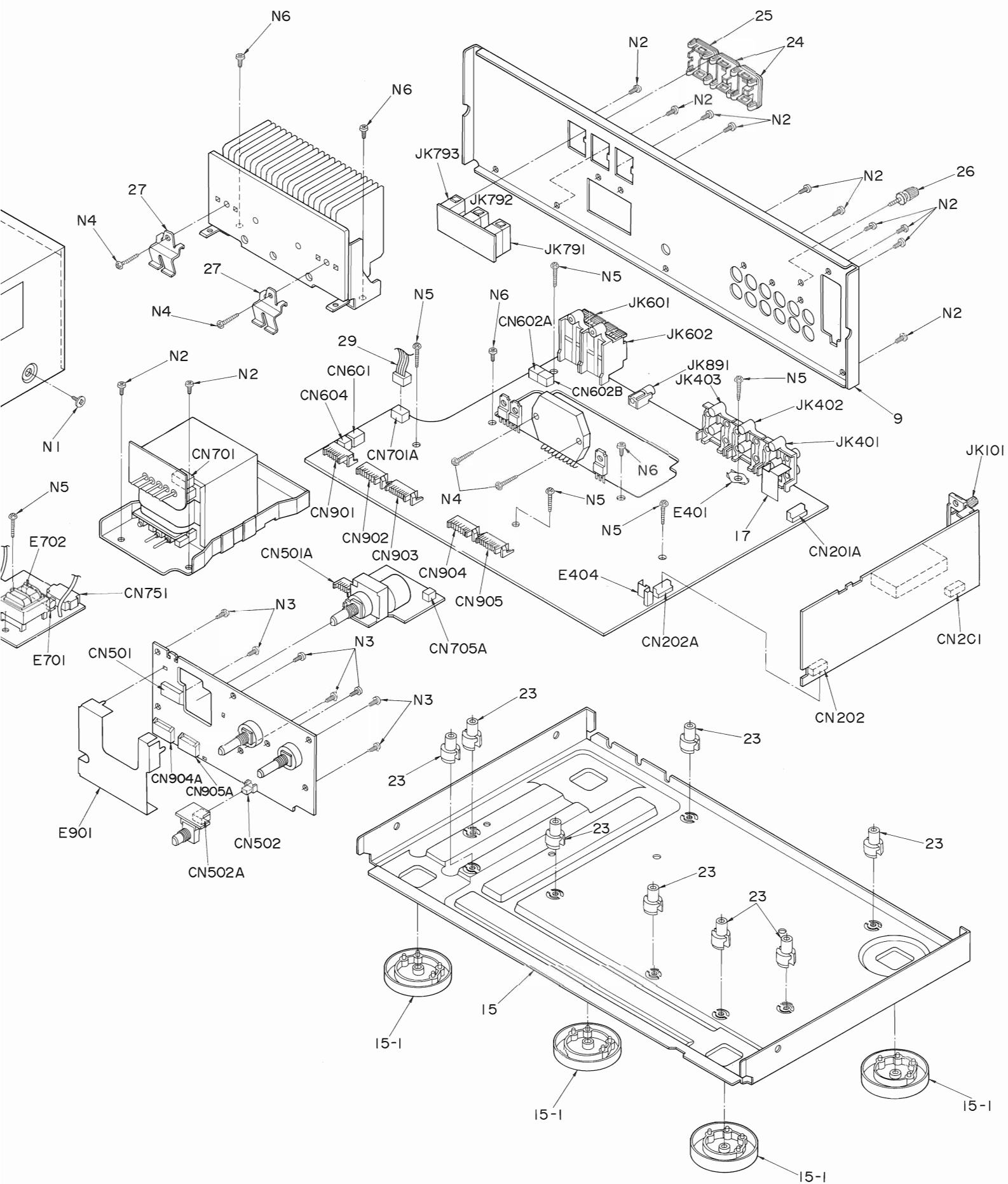
- Regarding Ref. No. CN905A, there are t...
- Be sure to order the t...
- The type-A connector after soldering the c...



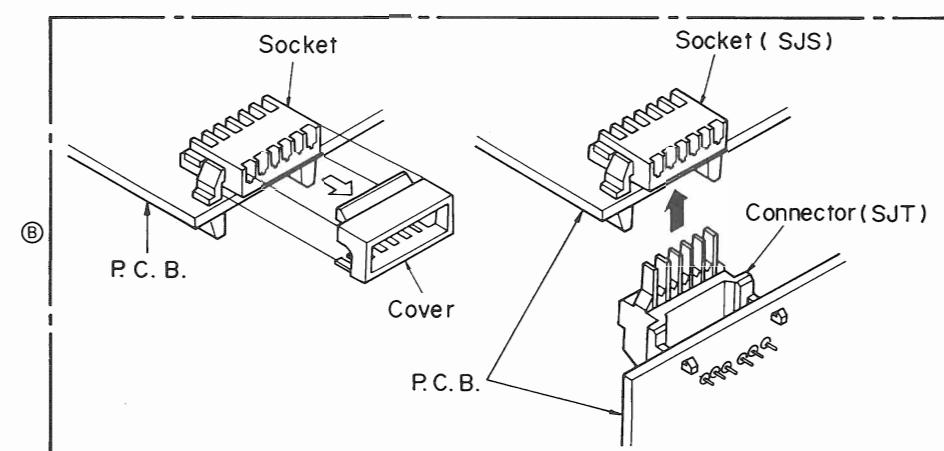
- Regarding Ref. No. ...



5 6 7 8 9 10 11 12 13 14

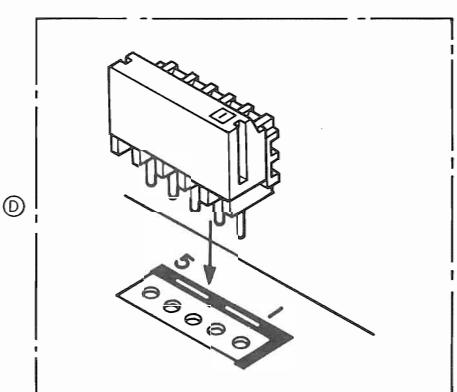
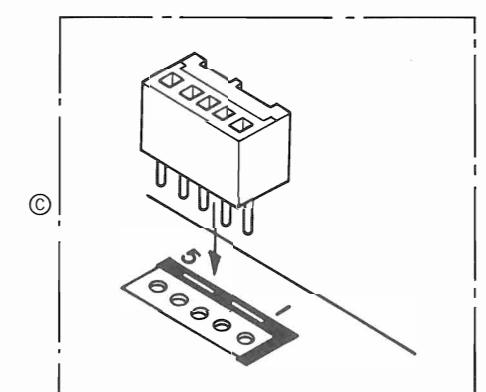


Pins	Part No.	
8 Pin	RJT003K008M1	(Black or Gray)
8 Pin	RJU003K008M1	(Black)
10 Pin	RJT003K010M1	(Black or Gray)
10 Pin	RJU003K010M1	(Black)



Pins	Part No.	
8 Pin	SJS50887WF	(Ivory)
8 Pin	SJT30854WF	(Ivory)
10 Pin	SJT30845WF	(Ivory)
10 Pin	SJS51087WF	(Ivory)
10 Pin	SJT31054WF	(Ivory)

- Regarding Ref. No. CN501, CN501A, CN901, CN901A, CN902, CN902A, CN903, CN903A, CN904, CN904A, CN905, CN905A, there are two types (Ⓐ and Ⓑ).
- Be sure to order the replacement parts of the desired color by the corresponding part numbers.
- The type-A connector and the type-B socket are protected with covers when they are supplied. Remove the cover after soldering the connector or socket to the P.C.B. (Then discard it.)



- Regarding Ref. No. CN601, CN701, CN701A, there are two types (Ⓒ and Ⓟ).

## REPLACEMENT PARTS LIST

Notes : \* Important safety notice:

Components identified by  $\triangle$  mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

\* The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)  
Parts without these indications can be used for all areas.

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
				P1	SPB1061	PROTECTION BAG (F. B.)	(PC)
		CABINET AND CHASSIS		P2	SPSD152	ACCESSORIES BOX	
1	RKM0036A-K	CABINET		P3	RPG0453	PACKING CASE	
2	REE0177	CONNECTOR ASS' Y(2P) (CN705)		P4	RPN0328A	PAD	
3	RWJ1803150QK	FLAT CABLE (3P)		P5	RPN0328B	PAD	
4	RWJ1805150QK	FLAT CABLE (5P)		P6	RPN0328C	PAD	
5	RWJ1808330QK	FLAT CABLE (8P)		P7	RPN0328D	PAD	
7	RMN0069	LED HOLDER		P8	SPP723	PROTECTION BAG (UNIT)	
8	RMN0070	FL HOLDER				ACCESSORIES	
9	RGR0079A-A	REAR PANEL		A1	RQT0411-P	INSTRUCTION MANUAL	(P)
10	RGU0030	BUTTON, POWER		A1	RQT0412-C	INSTRUCTION MANUAL	(PC)
11	RGU0101	BUTTON, SPEAKER SELECTOR		A2	SJA172-1	POWER CORD	(P) $\triangle$
12	RGW0070	KNOB, MAIN VOLUME		A2	SJA172	POWER CORD	(PC) $\triangle$
13	RGW0072	KNOB, BASS/TREBLE		A3	SPB1163T	AM LOOP ANTENNA	
14	RGW0073	KNOB, BALANCE		A3-1	SSA272M	FM ANTENNA	
15	RFKJAGX300P	CHASSIS ASS' Y		A3-2	SMA233-1M	AM ANTENNA HOLDER	
15-1	RKA0009-1	FOOT		A3-3	XTN3+10AFZ	SCREWS	
16	RFKGAGX100P	FRONT PANEL ASS' Y		A7	SQX7147	WARRANTY CARD	(P)
17	RSC0105	SHIELD PLATE		A7	SQX7183	WARRANTY CARD	(PC)
18	RGU0344A	BUTTON, PRESET		A8	SQX9131	SERVICENTER LIST	(PC)
19	RGU0345A	BUTTON, SELECTOR		A9	RAK-SA301P	REMOTE CONTROL TRANSMITTER	
20	RGU0346	BUTTON, GROUP		A10	RKK0008	BATTERY COVER	
21	RGU0347	BUTTON, UP-DOWN					
22	RGU0348A	BUTTON, MODE					
23	SHE187-2	P. C. B. SUPPORT					
24	SJS9233A	AC OUTLET COVER					
25	SJS9234A	AC INLET COVER					
26	SNE2123	GND TERMINAL					
27	SUS894-1	ANGLE, TRANSISTOR					
28	XNS7	NUT					
29	RWJ1805140QQ	CONNECTOR ASS' Y					
		SCREWS					
N1	SNE2129-3	SCREW					
N2	XTBS3+8JFZ1	SCREW					
N3	XTBS26+8J	SCREW					
N4	XTB3+16JFZ	SCREW					
N5	XTB3+20JFZ	SCREW					
N6	XTB3+8JFZ	SCREW					
N7	XTWS3+8T	SCREW					
N8	XTWS3+10Q	SCREW					
		PACKING MATERIAL					
P1	XZB24X33C04	PROTECTION BAG (F. B.)	(P)				

## Notes : \* Important safety notice:

Components identified by  $\Delta$  mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

- \* The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
- Parts without these indications can be used for all areas.

Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)	
IC101	LM7001	I. C, PLL FREQ. SYNTHESIZER	
IC201	AN7273A	I. C, FM/AM IF AMP & MIXER	
IC301	AN7470	I. C, FM MPX	
IC401	TC9163N	I. C, INPUT SELECTOR	
IC402	M5238P	I. C, BUFFER AMP	
IC451	AN6558F	I. C, PHONO EQ. AMP	
IC471	M5238L	I. C, TONE CONTROL	
IC601	SVI3102B	I. C, POWER AMP	(P) $\Delta$
IC601	SVI3203	I. C, POWER AMP	(PC) $\Delta$
IC851	BA6218	I. C, MOTOR DRIVE	
IC901	LC6554H280	I. C, MICRO COMPUTER	
		TRANSISTOR(S)	
Q101, 102	2SC2785FETA	TRANSISTOR	
Q201, 202	2SC2787LTA	TRANSISTOR	
Q204, 205	2SC1740SQSTA	TRANSISTOR	
Q206	2SA933SQRSTA	TRANSISTOR	
Q207	2SC1740SQSTA	TRANSISTOR	
Q208, 209	2SA933SQRSTA	TRANSISTOR	
Q210	2SC1740SQSTA	TRANSISTOR	
Q301, 302	2SD1450QRSTA	TRANSISTOR	
Q303	2SA933SQRSTA	TRANSISTOR	
Q501, 502	2SJ40CDTA	TRANSISTOR	
Q503, 504	2SC3327ABTP	TRANSISTOR	
Q505, 506	2SA1309AQSTA	TRANSISTOR	
Q507, 508	2SC3327ABTP	TRANSISTOR	
Q513, 514	UN4211TA	TRANSISTOR	
Q601	2SA992EF	TRANSISTOR	(PC)
Q701	2SD1761DEF	TRANSISTOR	$\Delta$
Q703, 704	2SC3311AQSTA	TRANSISTOR	$\Delta$ (Q703)
Q705	2SC3940AQSTA	TRANSISTOR	
Q708	2SB1185DEF	TRANSISTOR	$\Delta$
Q709	2SC3311AQSTA	TRANSISTOR	
Q710	2SB1185DEF	TRANSISTOR	
Q713	2SC3311AQSTA	TRANSISTOR	$\Delta$
Q751	2SC1740SQSTA	TRANSISTOR	
Q752	2SC3940AQSTA	TRANSISTOR	
Q891	UN4113TA	TRANSISTOR	
Q892	UN4214TA	TRANSISTOR	
Q893	2SA933SQRSTA	TRANSISTOR	
Q894	UN4211TA	TRANSISTOR	
Q895	2SB1240PRTV6	TRANSISTOR	
Q901	2SC1740SQSTA	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q902	UN4215TA	TRANSISTOR	
Q949	2SA933SQRSTA	TRANSISTOR	
		DIODE (S)	
D101	MA165TA	DIODE	
D202	MA4110MTA	DIODE	
D204	MA165TA	DIODE	
D206	MA165TA	DIODE	
D301	MA165TA	DIODE	
D553	LN846RP-LS	DIODE	
D601	MA165TA	DIODE	(PC)
D701-704	P300DLF	DIODE	$\Delta$
D705, 706	MA4062MTA	DIODE	
D709	MA4270MTA	DIODE	
D710	MA29WATA	DIODE	$\Delta$
D711	MA4150MTA	DIODE	
D751-754	SVDS5688GT3	DIODE	$\Delta$
D755	MA165TA	DIODE	
D757	MA4068MTA	DIODE	
D851	SVDS5688GT3	DIODE	
D891	MA165TA	DIODE	
D892	LN846RP-LS	DIODE	
D893	MA29WATA	DIODE	
D901-906	MA165TA	DIODE	
D907	ISS291TA	DIODE	
D908-911	MA165TA	DIODE	
D912	MA4051MTA	DIODE	
D914, 915	MA165TA	DIODE	
D921, 922	MA165TA	DIODE	
		VARIABLE RESISTOR(S)	
VR301	EVNDXAA00B53	V. R, MPX VCO ADJ.	
VR471, 472	EWC2XAF25C15	V. R, TONE CONTROL	
VR501	EUWMNOF20B15	V. R, MAIN VOLUME	
VR502	EVJ01CF01G15	V. R, BALANCE	
		COMPONENT COMBINATION(S)	
Z201	RLA2Z001-T	COIL	
Z202	SL17Z101-T	COMPONENT COMBINATION	
Z891	A1QH3027H0	REMOTE CONT. SENSOR	
Z901	EXFP12331MF	COMPONENT COMBINATION	
Z902	EXBF8E473J	COMPONENT COMBINATION	
Z903	EXBF5E103J	COMPONENT COMBINATION	
Z904	EXBF8E103J	COMPONENT COMBINATION	

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
				S914	EVQ21405R	SW, AM	
		COIL (S)		S915	EVQ21405R	SW, TUNING DOWN	
				S916	EVQ21405R	SW, TUNING UP	
L1	RLQZP1R2KT-Y	COIL		S917	EVQ21405R	SW, MEMORY	
L2	RLQZPR47KT-Y	COIL		S918	EVQ21405R	SW, LOUDNESS	
L101	RLQZPR47KT-Y	COIL		S919	EVQ21405R	SW, START	
L102	RLQZP1R2KT-Y	COIL		S920	EVQ21405R	SW, ROCK	
L203, 204	ELEPKIROMA	COIL		S921	EVQ21405R	SW, JAZZ	
L601, 602	SLQY07G-40	COIL		S922	EVQ21405R	SW, CLASSIC	
L851, 852	RLQZP1ROKT-Y	COIL		S923	EVQ21405R	SW, EASY	
L901, 902	ELEPK101KA	COIL		S924	EVQ21405R	SW, NEWS	
				S925	EVQ21405R	SW, OTHER	
		TRANSFORMER (S)		S926	EVQ21405R	SW, END	
				S927	EVQ21405R	SW, PHONO	
T201	RLI4B007-Z	I.F.T.		S928	EVQ21405R	SW, TUNER	
T701	RTP1M5C001AV	POWER TRANSFORMER	△	S929	EVQ21405R	SW, CD	
T751	SLT5H2	TRANSFORMER	△	S931	EVQ21405R	SW, TAPE MONITOR/VCR2	
				S932	EVQ21405R	SW, VCR1	
		FUSE (S)				CONNECTOR(S) & SOCKET (S)	
F1	XBA1F25NU14	FUSE, 125V, 2.5A	△	CN201	RJT057W007	CONNECTOR(7P)	
				CN201A	RJU057W007	SOCKET(7P)	
		FILTER(S)		CN202	RJT057W007	CONNECTOR(7P)	
CF201, 202	RLFETNGM02L	CERAMIC FILTER		CN202A	RJU057W007	SOCKET(7P)	
CF901	EFOGC4004T4	CERAMIC FILTER		CN501	RJT003K010M1	CONNECTOR(10P)	
				CN501	SJS51087WF	SOCKET(10P)	
		OSCILLATOR(S)		CN501A	RJU003K010M1	SOCKET(10P)	
X101	SVQ49U722T-S	OSCILLATOR		CN501A	SJT31054WF	CONNECTOR(10P)	
				CN502	SJS5037&JQ	SOCKET(3P)	
		DISPLAY TUBE		CN502A	SJT30345JQ	CONNECTOR(3P)	
FL901	RSL0043-F	DISPLAY TUBE		CN601	RJS1A1705	CONNECTOR(5P)	
				CN601	SJT30543-V	CONNECTOR(5P)	
		SWITCH(ES)		CN602A	RJS1A1704	CONNECTOR(4P)	
S601	SSH2137	SW, SPEAKERS		CN604	RJS1A1703	CONNECTOR(3P)	
S701	SSH1238	SW, POWER	△	CN701	RJS1A1705	CONNECTOR(5P)	
S901	EVQ21405R	SW, PRESET TUNING 1		CN701	SJT30543-V	CONNECTOR(5P)	
S902	EVQ21405R	SW, PRESET TUNING 2		CN701A	RJS1A1705	CONNECTOR(5P)	
S903	EVQ21405R	SW, PRESET TUNING 3		CN701A	SJT30543-V	CONNECTOR(5P)	
S904	EVQ21405R	SW, PRESET TUNING 4		CN705A	SJT3213	CONNECTOR(2P)	
S905	EVQ21405R	SW, PRESET TUNING 5		CN751	SJS305-1	CONNECTOR(3P)	
S906	EVQ21405R	SW, PRESET TUNING 6		CN901	RJT003K008M1	CONNECTOR(8P)	
S907	EVQ21405R	SW, PRESET TUNING 7		CN901	SJS50887WF	SOCKET(8P)	
S908	EVQ21405R	SW, PRESET TUNING 8		CN901A	RJU003K008M1	SOCKET(8P)	
S909	EVQ21405R	SW, PRESET TUNING 9		CN901A	SJT30854WF	CONNECTOR(8P)	(P)
S910	EVQ21405R	SW, PRESET TUNING 0		CN901A	SJT30845WF	CONNECTOR(8P)	(PC)
S911	EVQ21405R	SW, MEMORY SCAN		CN902	RJT003K008M1	CONNECTOR(8P)	
S912	EVQ21405R	SW, FM MODE		CN902	SJS50887WF	SOCKET(8P)	
S913	EVQ21405R	SW, FM		CN902A	RJU003K008M1	SOCKET(8P)	
				CN902A	SJT30854WF	CONNECTOR(8P)	(P)
				CN902A	SJT30845WF	CONNECTOR(8P)	(PC)
				CN903	RJT003K008M1	CONNECTOR(8P)	

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
CN903	SJS50887WF	SOCKET(8P)		JK401	SJF3069N	JACK, PHONO/CD	
CN903A	RJU003K008M1	SOCKET(8P)		JK402	SJF3069N	JACK, VCR1	
CN903A	SJT30854WF	CONNECTOR(8P)	(P)	JK403	SJF3069N	JACK, TAPE/VCR2	
CN903A	SJT30845WF	CONNECTOR(8P)	(PC)	JK601	RJR0054	JACK, SPEAKER	
CN904	RJT003K008M1	CONNECTOR(8P)		JK602	RJR0054	JACK, SPEAKER	
CN904	SJS50887WF	SOCKET(8P)		JK791	SJS9233B	AC OUTLET	▲
CN904A	RJU003K008M1	SOCKET(8P)		JK792	SJS9233B	AC OUTLET	▲
CN904A	SJT30854WF	CONNECTOR(8P)	(P)	JK793	SJS9234B	AC INLET	▲
CN904A	SJT30845WF	CONNECTOR(8P)	(PC)	JK891	RJJ33TR01	JACK, REMOTE CONTROL OUT	
CN905	RJT003K008M1	CONNECTOR(8P)				RELAY(S)	
CN905	SJS50887WF	SOCKET(8P)		RLY601	SSY134	RELAY	(PC)
CN905A	RJU003K008M1	SOCKET(8P)		RLY751	RSY0005-C	RELAY	▲
CN905A	SJT30854WF	CONNECTOR(8P)	(P)			FRONT END PACK ASS'Y	
CN905A	SJT30845WF	CONNECTOR(8P)	(PC)	TN101	RAL0006	FM FRONT END	
CN906, 907	SJT30648BB1	CONNECTOR(6P)					
CN908	SJT30549BB1	CONNECTOR(5P)					
CN906A	SJS50681BB	SOCKET(6P)					
CN907A	SJS50681BB	SOCKET(6P)					
CN908A	SJS50581BB	SOCKET(5P)					
CN602B	RJS1A1704	CONNECTOR(4P)					
		SHIELD PART(S)					
E401	SNE1004-1	GND PLATE					
E404	SME103-6	P. C. B. HOLDER					
E701, 702	RJR0011	FUSE HOLDER					
E901	RSC0111	SHIELD PLATE					
		JACK(S)					
HP601	SJJ146B	JACK, HEADPHONE					
JK101	RJH4405	JACK, ANTENNA					

## ■ PACKING

