ORDER NO. AD9006177C1
A2

Service Manual

Receiver

QUARTZ Synthesizer
AM/FM Stereo Receiver

DOLBY SURROUND*

SA-GX700

Color

(K)...Black Type

Area

Country Code	Area	Color
(PP)	U.S.A. and Canada.	(K)

* Manufactured under license from Dolby Laboratories Licensing Corporation. Additionnally licenced under one or more of the following patents: U.S. numbers 3,632,886, 3,746,792 and 3,959,590; Canadian numbers 1,004,603 and 1,037,877.
"Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

SPECIFICATIONS
(IHF'78)

■ AMPLIFIER SECTION

Rated minimum sine wave RMS power output 20 Hz~20 kHz both channels driven 0.008% total harmonic distortion	100 W per channel (8 ohms)
1 kHz continuous power output both channels driven 0.008% total harmonic distortion	105 W per channel (8 ohms)
Dynamic headroom	1.2 dB (8 ohms)
Total harmonic distortion	
rated power at 20 Hz~20 kHz	0.008% (8 ohms)
half power at 1 kHz	0.002% (8 ohms)
SMPTE intermodulation distortion	0.01% (8 ohms)
Frequency response	
PHONO	RIAA standard curve ±0.8 dB
CD, VCR 1, VCR 2, TAPE	7 Hz~70 kHz, ±3 dB
Input sensitivity	
PHONO	0.4 mV (3 mV, IHF '66)
CD, VCR 1, VCR 2, TAPE	27 mV (200 mV, IHF '66)
S/N (IHF, A)	
PHONO	70 dB (80 dB, IHF '66)
CD, VCR 1, VCR 2, TAPE	70 dB (90 dB, IHF '66)
Maximum input voltage	
PHONO	160 mV (IHF '66)
Input impedance	
PHONO	47 kilohms
CD, VCR 1, VCR 2, TAPE	22 kilohms
Tone controls	
BASS	50 Hz, +10 dB~−10 dB
TREBLE	20 kHz, +10 dB~−10 dB
3 band parametric equalizer	+10 dB~−10 dB
Loudness control (volume at −30 dB)	50 Hz, +9 dB
Low frequency damping factor	30 (8 ohms)
Load impedance	
A or B	4~16 ohms
A and B	8~16 ohms

■ SURROUND AMPLIFIER SECTION

Power output (Rear)	at 1 kHz 2×20 W (8 ohms) (T.H.D. 0.8%)

■ 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

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

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)

■ AM TUNER SECTION

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

■ GENERAL

Power consumption	450 W, 580 VA
Power supply	AC 120V, 60Hz
Dimensions (W × H × D)	430 × 134 × 305 mm (16-15/16" × 5-9/32" × 12")
Weight	10 kg (22 lb.)

Notes:
1. Total harmonic distortion is measured by the digital spectrum analyzer.
2. Specifications are subject to change without notice. Weight and dimensions are approximate.

■ CONTENTS

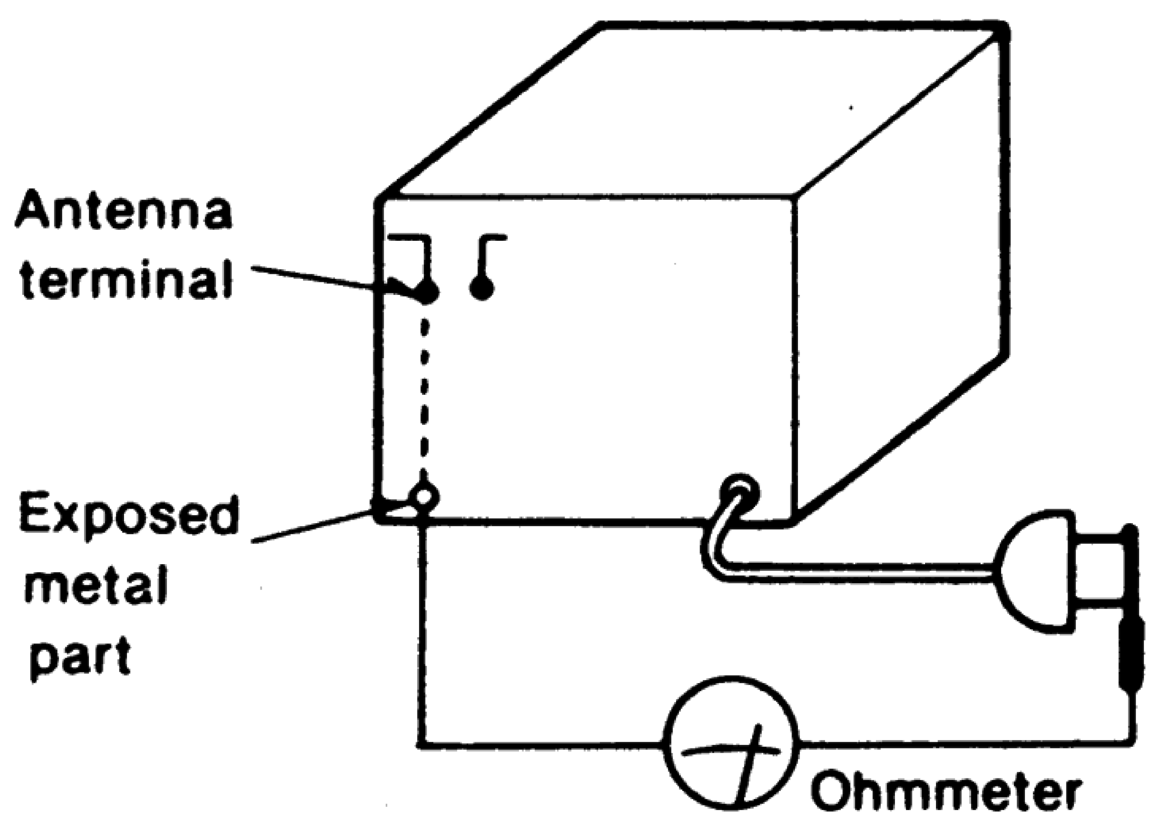
■ SAFETY PRECAUTION (This "safety precaution" is applied only in U.S.A.)

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.

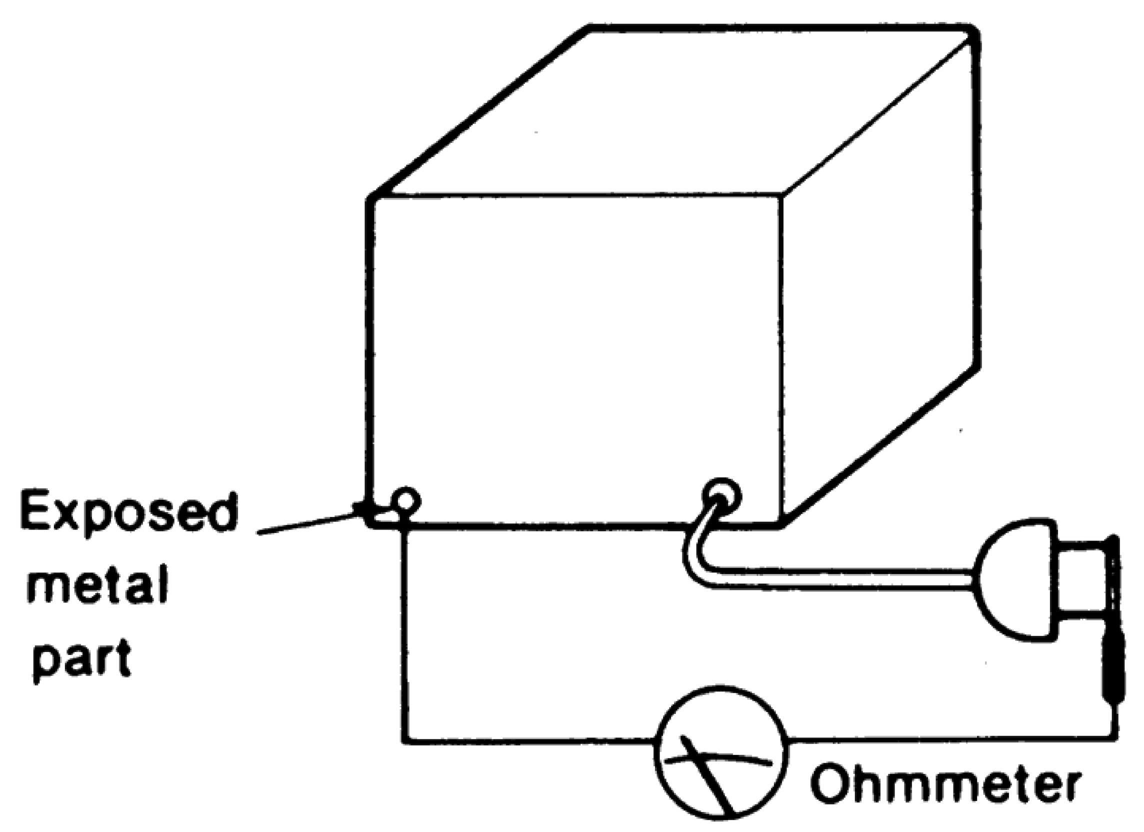
• INSULATION RESISTANCE TEST

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 3MΩ and 5.2MΩ 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.



(Fig. A)
Resistance = 3MΩ—5.2MΩ



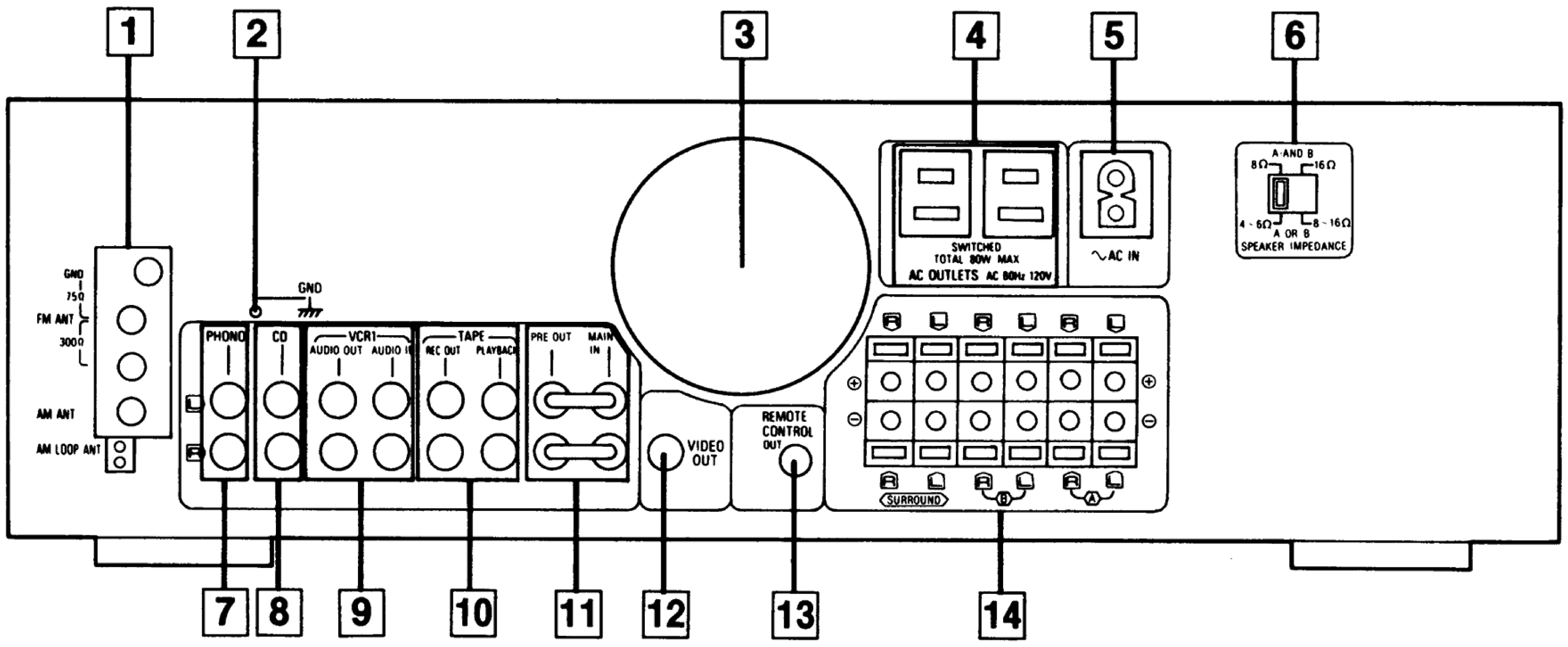
(Fig. B)
Resistance = Approx ∞

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 pc.
- Remote control transmitter (EUR66632) .... 1 pc.
- Batteries AAA, 1.5V (R03/UM-4) .... 4 pcs.
- FM indoor antenna (SSA272M) .... 1 pc.
- AM loop antenna (SPB1163T) .... 1 pc.
- AM antenna holder (SMA233-1M) .... 1 pc.
- Screws (XTN3+10AFZ) .... 2 pcs.

REAR PANEL TERMINALS AND FUNCTIONS



[1] Antenna connection terminals

[2] "GND" terminal

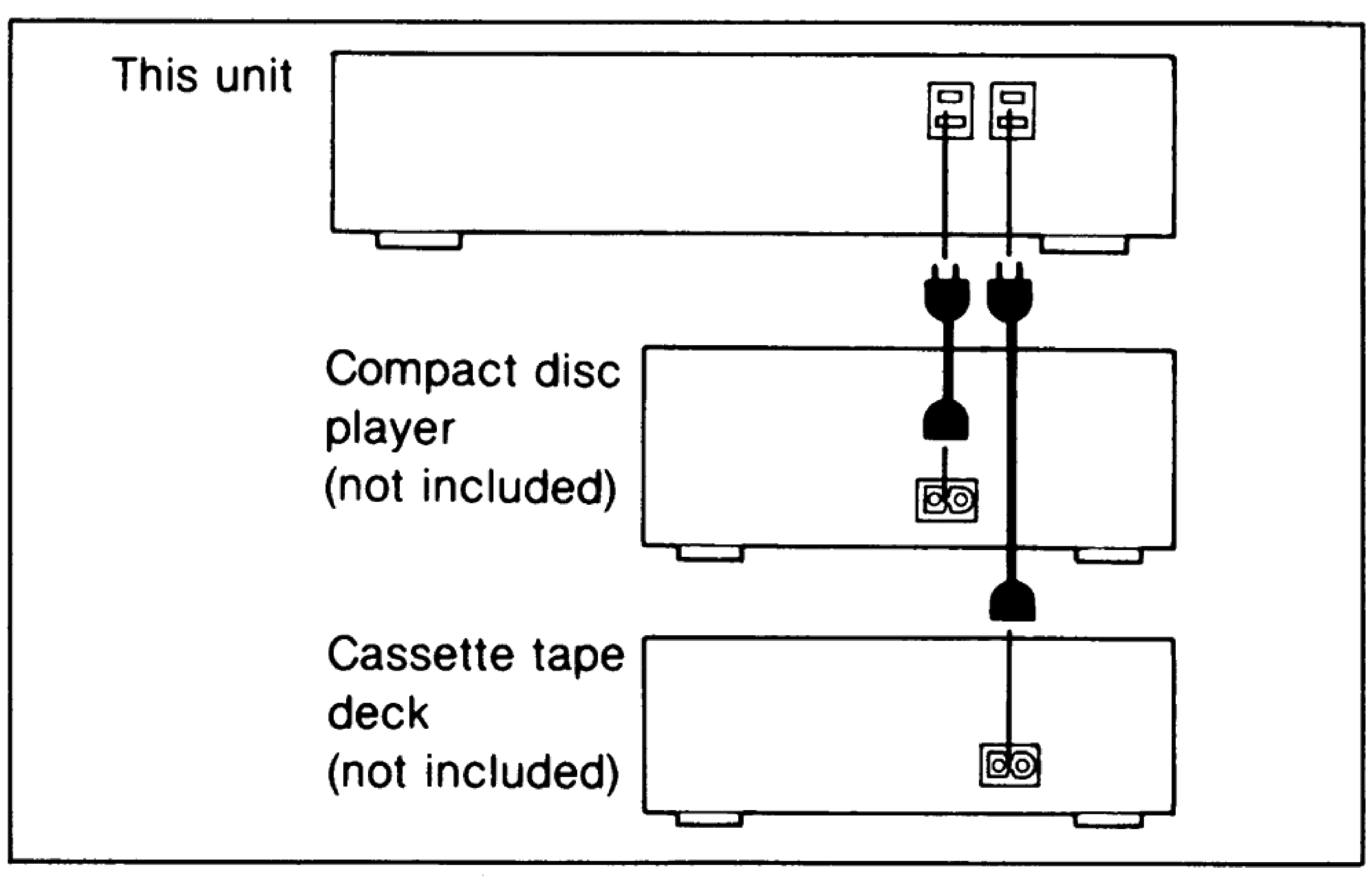
Connect the turntable's ground wire to this terminal (if applicable).

[3] Cooling fan

The cooling fan operates at high output power levels only.

[4] Outlets "SWITCHED"

Power to these outlets is controlled by the power switch of this unit. Audio equipment rated up to 80 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:



[5] AC IN socket (AC IN)

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

[6] Speaker impedance selector

Before use, set to the correct impedance corresponding to the impedance of the speaker systems being used.

[7] "PHONO" terminals

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

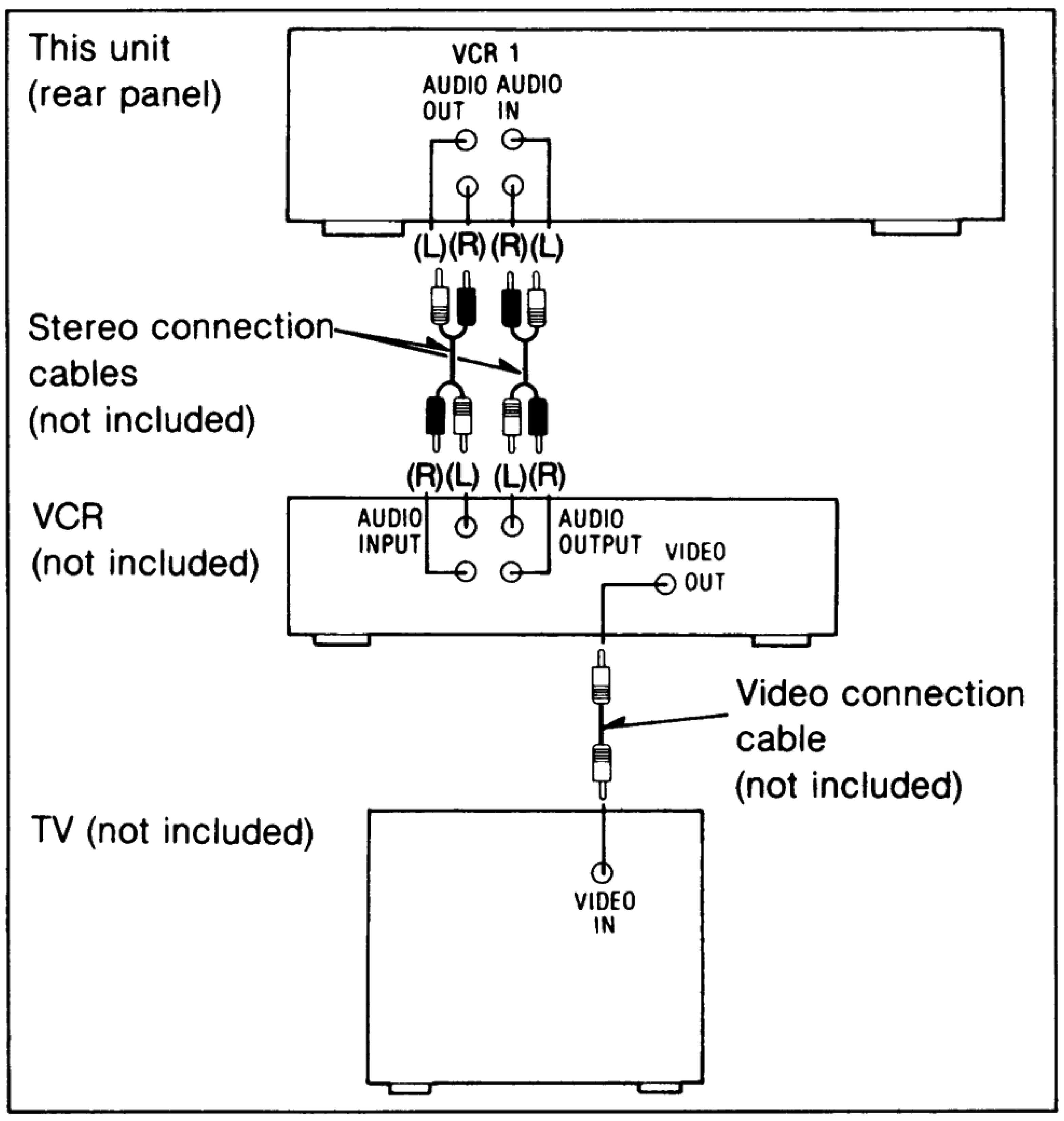
※ **Phono input capacitance about 100pF.**

[8] "CD" terminals

Connect a compact disc player or other sound source.

9 "VCR 1" terminals

Connect a video cassette recorder or an audio tape deck, etc. (See the operating instructions of the VCR, etc.)



10 "TAPE" terminals

Connect a tape deck or second video cassette recorder.

11 "PRE OUT/MAIN IN" terminals

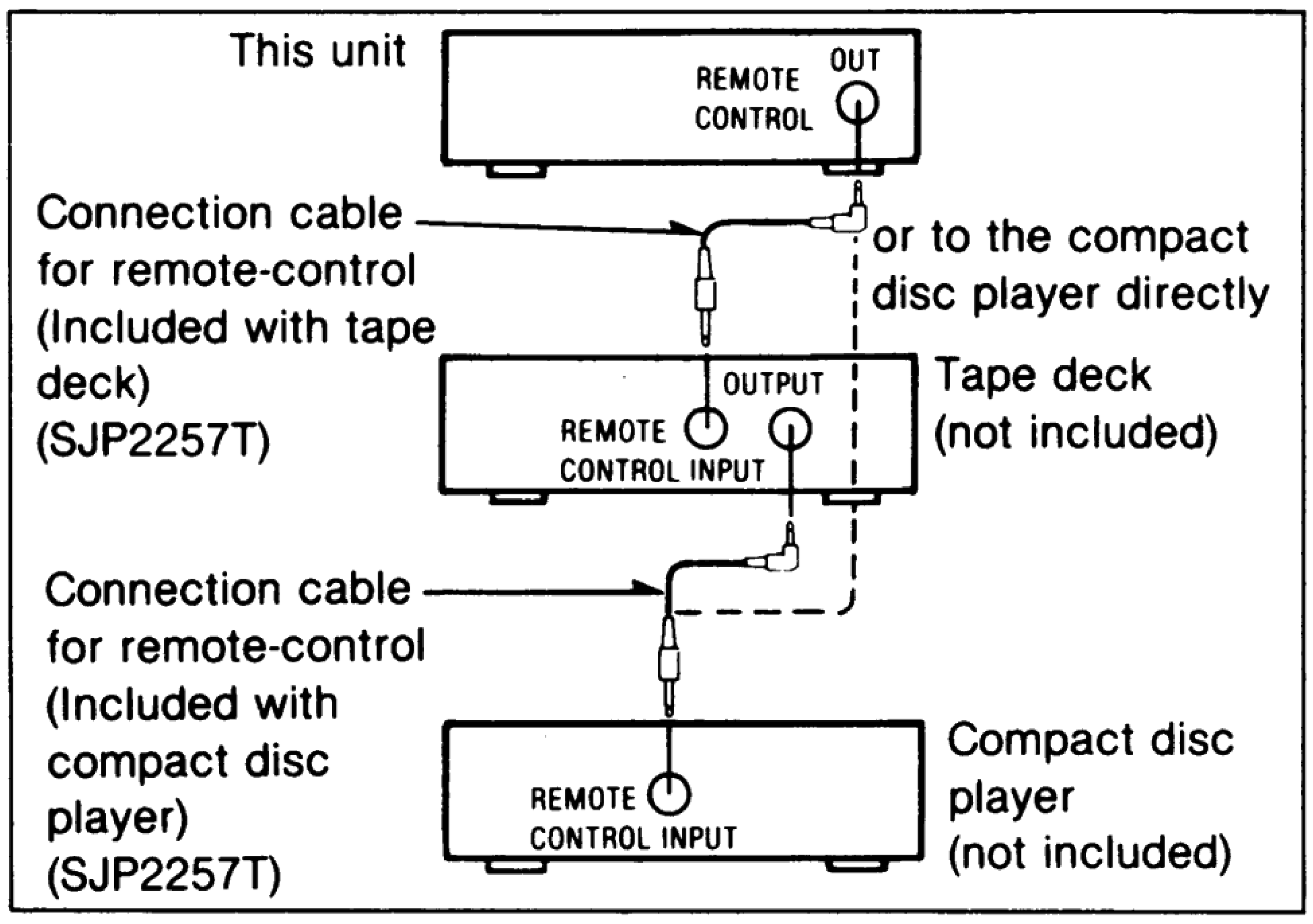
Do not remove the shorting pins from these terminals unless you plan to use an independent preamplifier or main amplifier. (No sound will be heard if they are removed). To use it in this way, refer to the operating instructions for the additional amplifier or preamplifier that you plan to use.

12 "VIDEO OUT" terminal

Connect a video connection cable (not included) to the video input terminal of VCR or TV.

13 Remote-control OUT terminal (REMOTE CONTROL OUT)

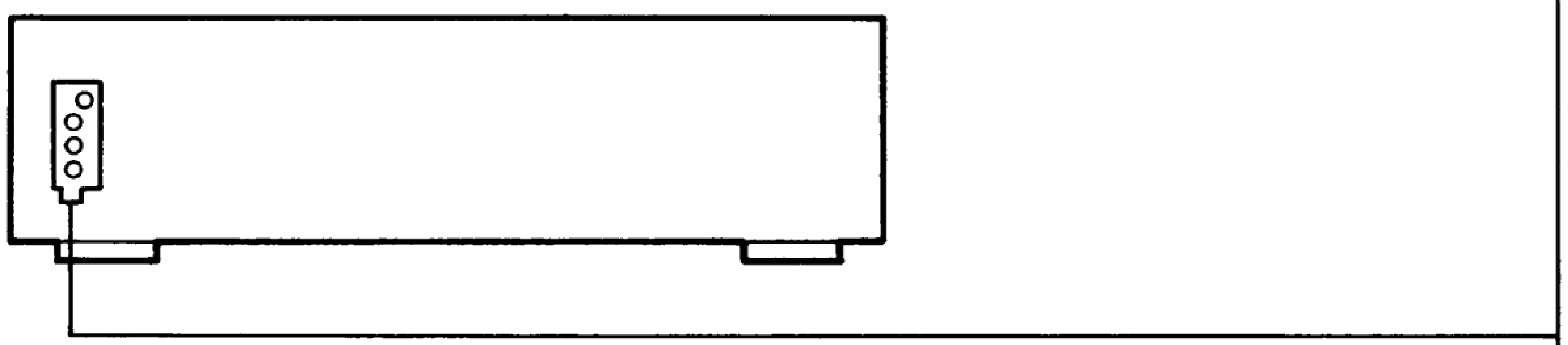
This terminal can be used only with Technics components which have the appropriate remote-control terminal.
(Consult your dealer for details.)
Proper connection with remote-control connection cables SJP2257T will allow control of some functions from this unit's remote-control transmitter.
Connect to a tape deck and/or compact disc player as shown below.

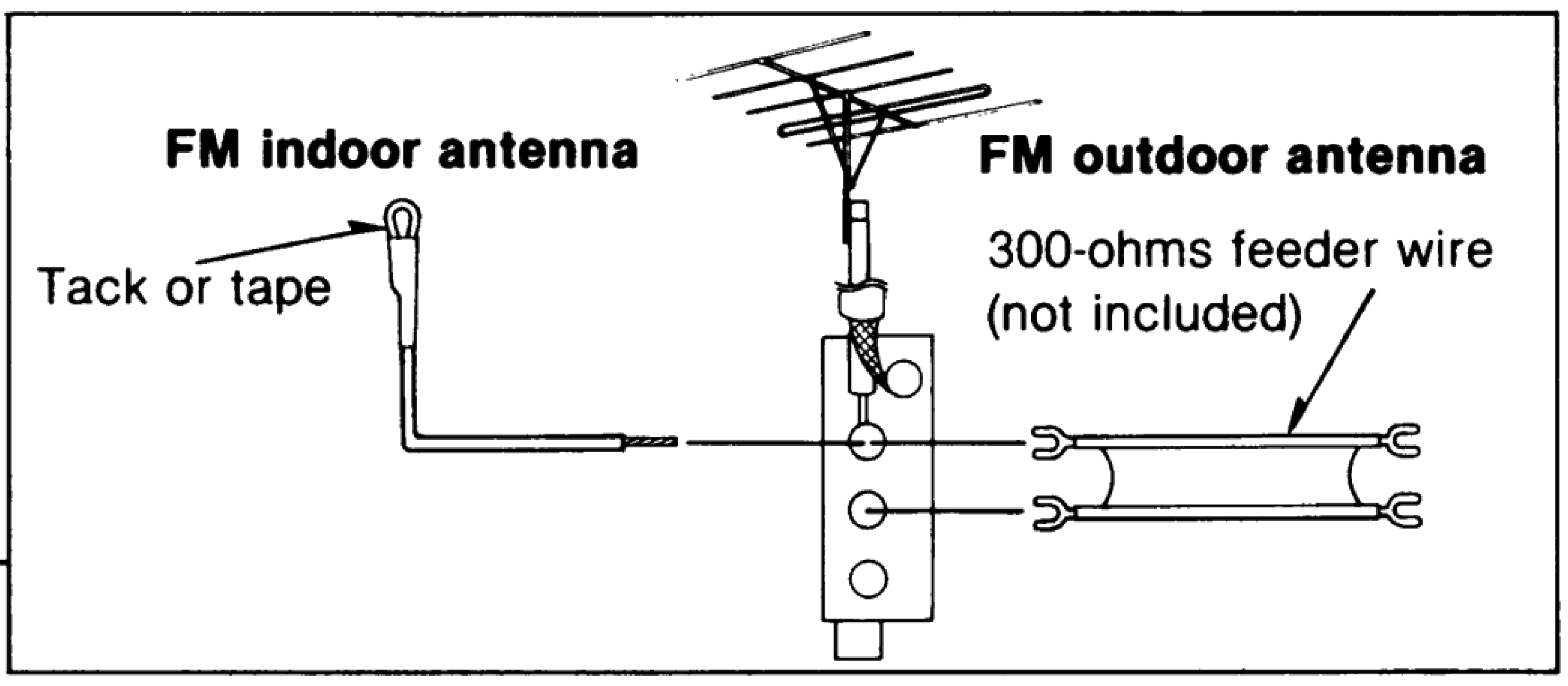


14 Speaker connection terminals

■ CONNECTIONS

FM antenna connections





■ FM indoor antenna (included)

Attach to a wall (using a tack or tape) facing in the direction of best reception.

For best reception sound quality:

An FM outdoor antenna is recommended.

- The tack should not contact the internal antenna wire.
- Disconnect the antenna if an FM outdoor antenna is installed.

■ FM outdoor antenna (not included)

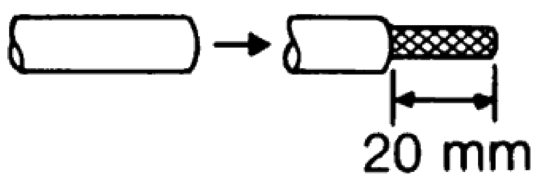
If the FM indoor antenna does not provide satisfactory reception, an outdoor antenna should be used.
The outdoor antenna may be required in a mountainous region, or if this unit is located inside a reinforced-concrete building, etc.

Connection wire from the antenna

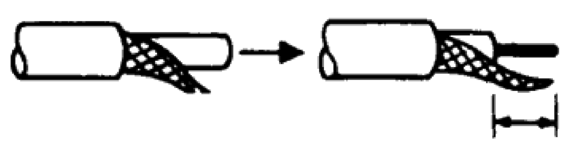
Two types of wire are most commonly used for connection from the antenna: 300-ohms parallel feeder wire or 75-ohms coaxial cable. For best resistance to external interference noise, the use of 75-ohms coaxial cable is suggested.

How to connect a 75-ohms coaxial cable

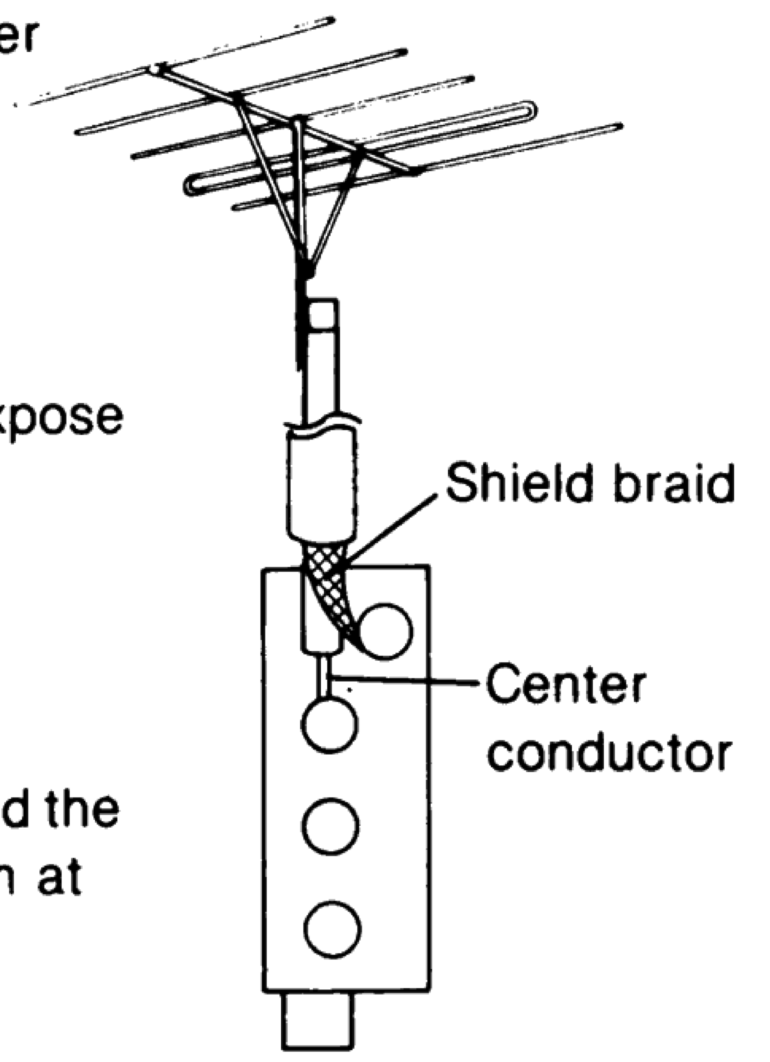
① Remove a piece of the outer vinyl insulator.



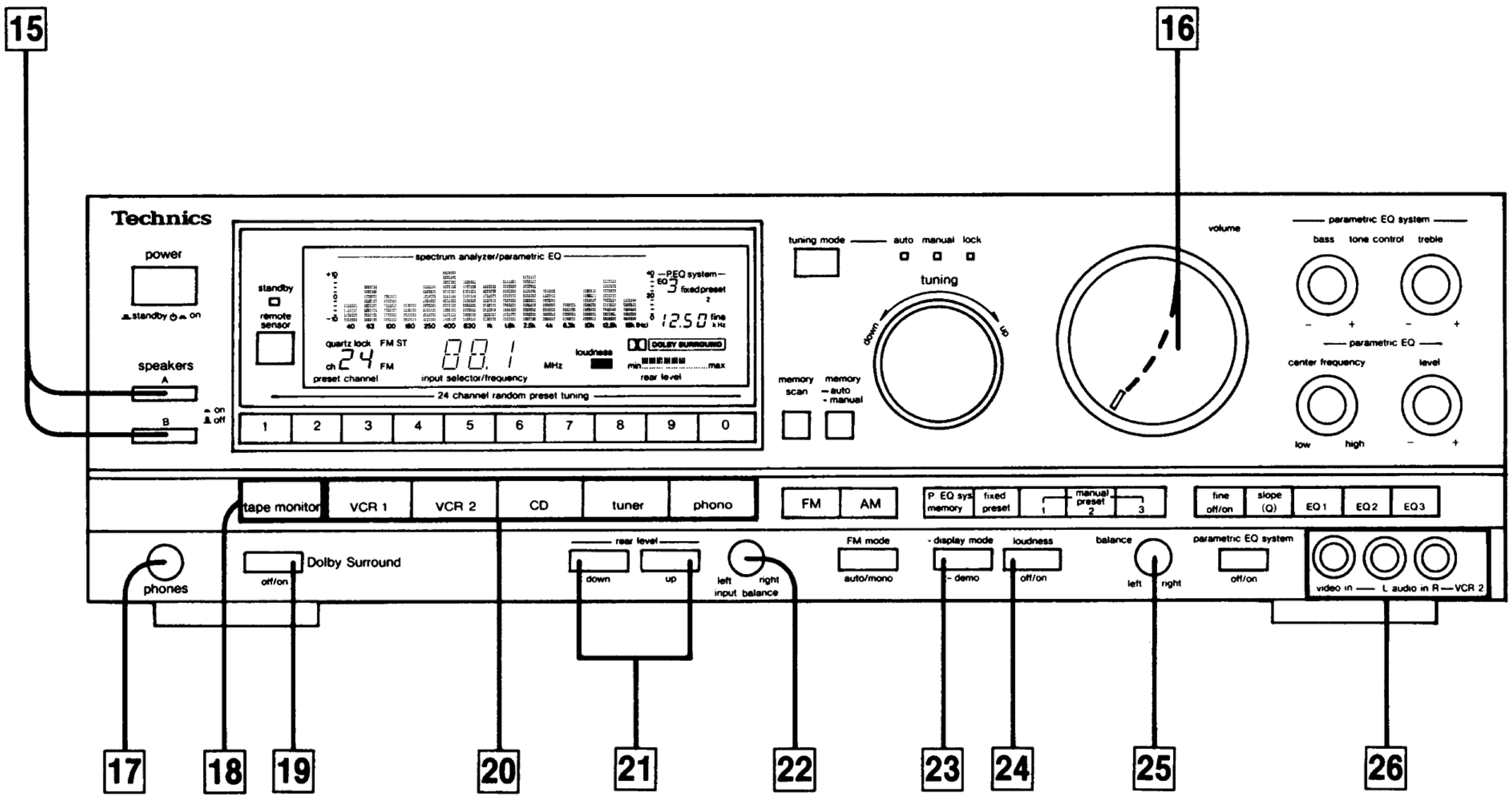
② Twist the shield braid to expose the core wire.



③ Connect the shield braid and the center conductor as shown at the right.



■ FRONT PANEL CONTROLS AND FUNCTIONS



Amplifier section

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

16 Volume control/indicator (volume)

17 Headphone jack (phones)

18 Tape-monitor switch (tape monitor)
Press this button to listen to a tape or an equipment connected to the "TAPE" terminals..
To listen to some other source, press this button once again (so that the indicator is switched OFF).

19 Dolby surround ON/OFF switch (Dolby Surround)
This switch is used to activate the Dolby surround effect.
When this switch is switched OFF, no sound will be heard from the surround speaker systems.

20 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 3 seconds, it de-activates the muting function.

21 Rear speaker volume control buttons (rear level)
These buttons are used to adjust the volume level of the surround speaker systems.

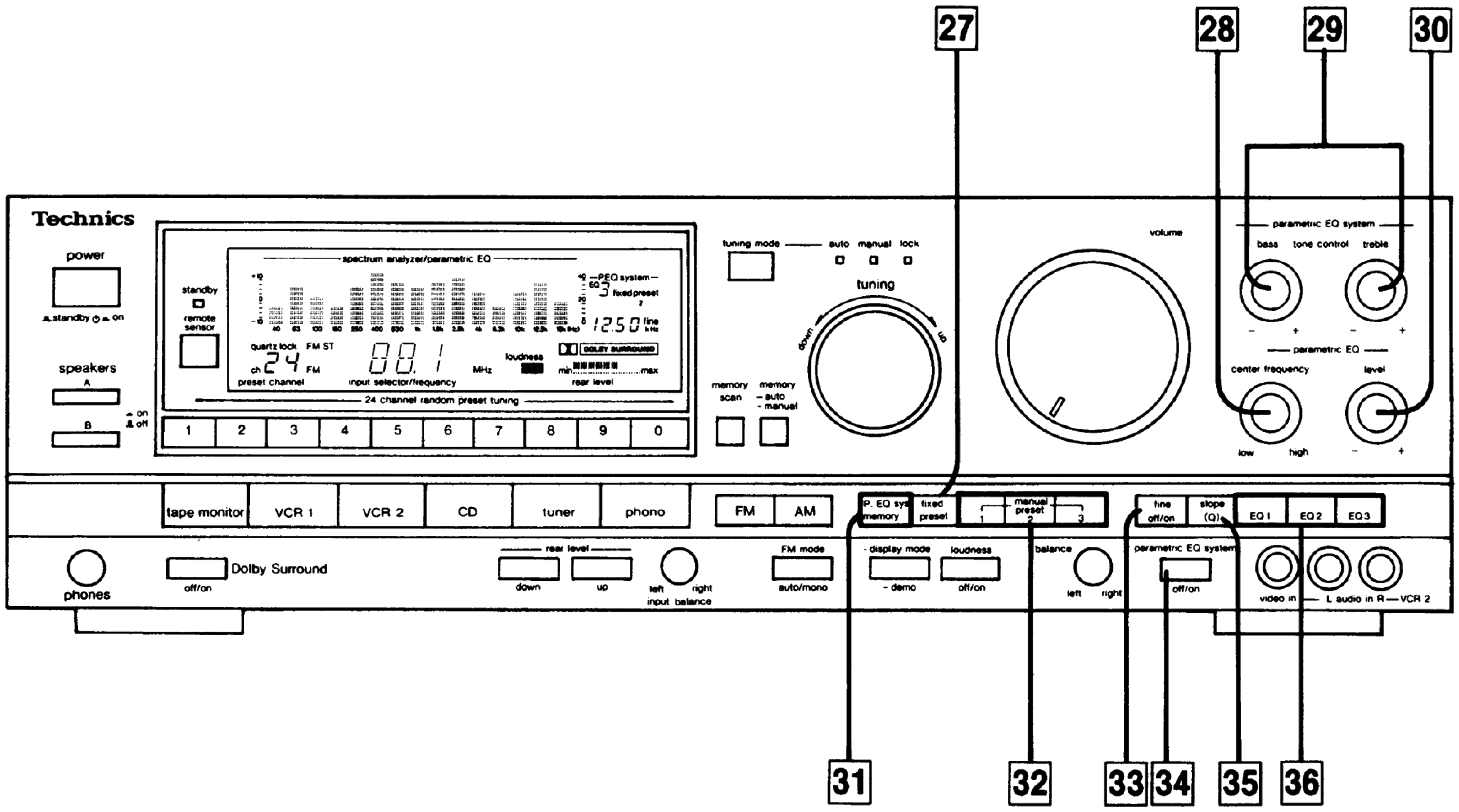
22 Dolby surround input balance control (input balance)
This control is used to minimize dialogue leakage in the surround channel thereby optimizing the Dolby surround decoding operation.

23 Display mode button (display mode)
This button is used to select either the spectrum analysis level ("Bar-type display", "Dot display" or "Peak hold display") or equalization level display.
If the button is pressed for 3 seconds or more, this unit will start a demonstration mode for the parametric EQ system.

24 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.

25 Balance control (balance)

26 "VCR 2" terminals (VCR 2)
These terminals are used for tape-to-tape recording if a second VCR is connected here.



Amplifier section (continued)

27 Fixed preset button (fixed preset)
This button is used to recall a "fixed preset" curve from the main unit's memory.

28 Center frequency control (center frequency)
This control is used to adjust the center frequency of the parametric EQ.
Making sound that matches the source can be enjoyed by combining this control with the level control and tone controls.

29 Tone controls (bass/treble)
These controls are used to balance the high-frequency and low-frequency sounds of the parametric EQ system.

30 Level control (level)
This control is used to adjust the level of the parametric EQ.

31 Parametric EQ system memory button (P. EQ sys memory)
This button enables the curves to be stored in the parametric EQ system memory.

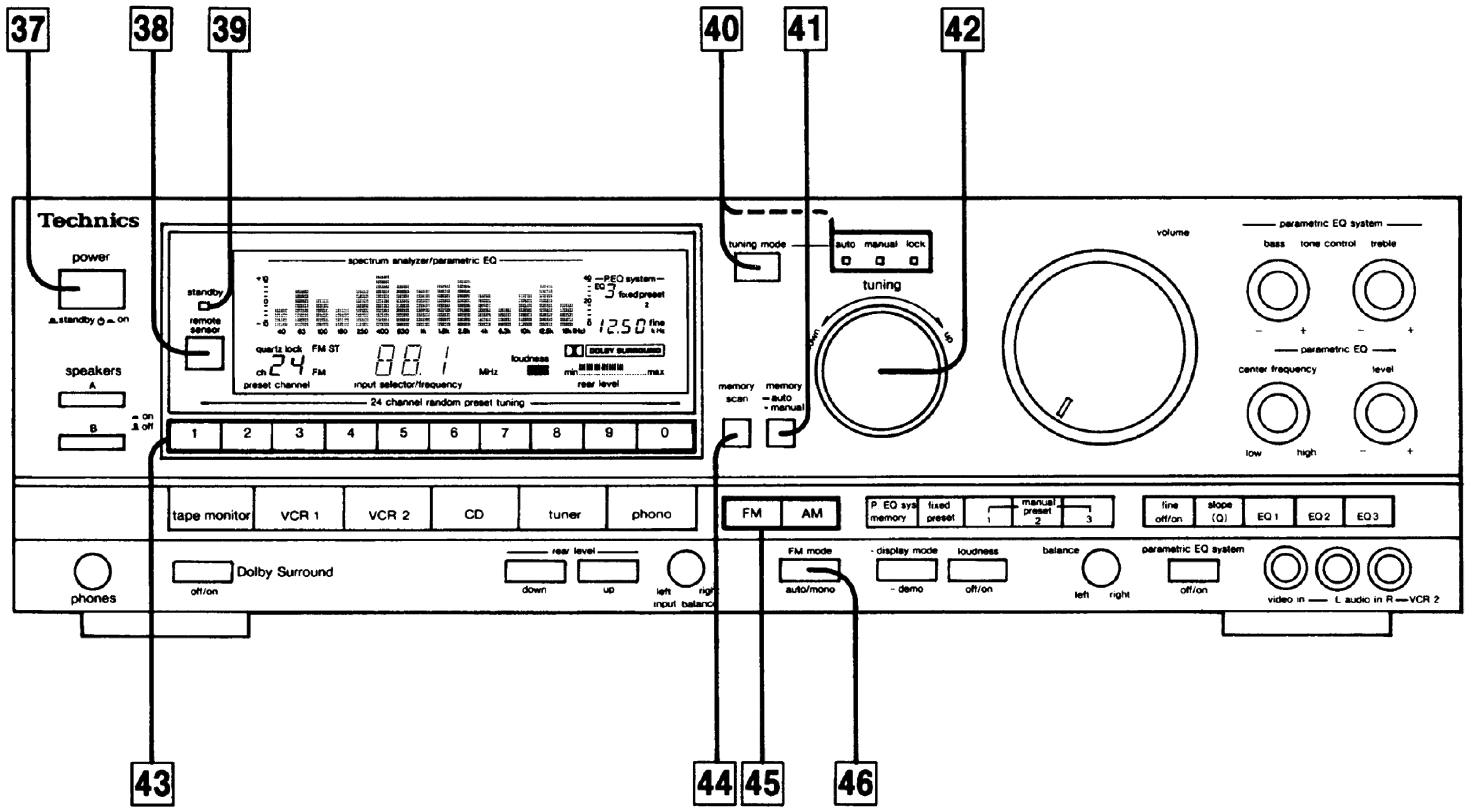
32 Equalization preset buttons (manual preset)
These buttons are used for storing or recalling the curves made by the parametric EQ system.

33 Fine mode select button (fine off/on)
This button is used to fine-adjust the center frequency of the parametric EQ.

34 Parametric EQ system ON/OFF button (parametric EQ system)
This button is used to turn the parametric EQ system ON or OFF.

35 Slope changeover button [slope (Q)]
This button is used to increase or decrease the slope of the parametric EQ curves.

36 Parametric EQ band select buttons
These buttons are used to select the band to be adjusted.



Tuner section

37 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.

38 Remote-control signal receptor (remote sensor)

Receives the signals from the remote-control.

39 "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.

40 Tuning-mode selector/indicator (tuning mode)

Each time this selector is pressed, the selection changes, in sequence, to "auto", "manual" and "lock".

auto:

In this position, broadcast channels are automatically selected when the tuning control is turned to the left or right to start the frequency changing.

manual:

In this position, the tuning control can be used to locate the desired channel manually.

lock:

In this position, the broadcast channel presently being heard is locked in, and other broadcast stations cannot be tuned to, even if the tuning control is turned.

41 Memory button (memory)

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

42 Tuning control (tuning)

This control is used to select an FM or AM broadcast.
When turning the control to the left, the frequency changes downward. When turning the control to the right, the frequency changes upward.

43 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.

44 Memory scan button (memory scan)

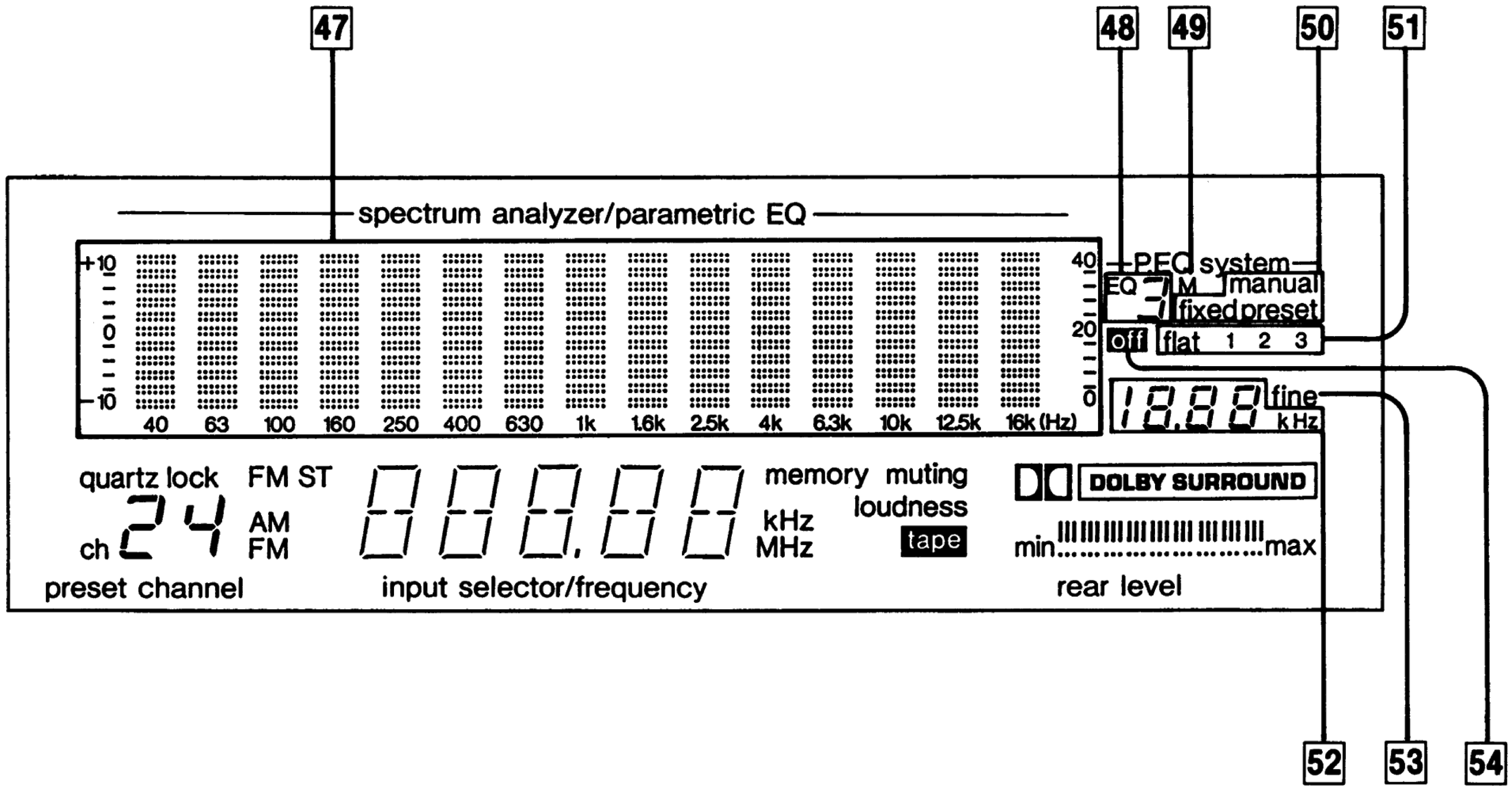
This button is used to locate a desired broadcast station; each broadcast station is selected for about 3 seconds.

45 Band selectors

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

46 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.



Display section

47 Spectrum analysis/parametric EQ level display (spectrum analyzer/parametric EQ)

This display shows the spectrum analysis level ("Bar-type display", "Dot display" or "Peak hold display") or equalization level.

Note:

When the display is set for spectrum analysis display, if buttons 27, 32, 33, 35 and controls 28, 29, 30 of the amplifier section are pressed, the display will change to the equalization level display but will return to the spectrum analysis display about 5 seconds later.

48 Parametric EQ band select indicator

This indicator shows the parametric EQ band select number selected by the parametric EQ band select buttons.

49 Parametric EQ system memory indicator (M)

This indicator illuminates when the parametric EQ system memory button is selected.

50 Parametric EQ system operation select indicators (manual/fixed)

One of these indicators will illuminate in accordance with the fixed preset button or equalization preset buttons setting.

51 Manual/fixed preset indicators (flat 1 2 3)

It displays the type of curve selected with the equalization preset buttons or fixed preset button.

52 Parametric EQ system center frequency display

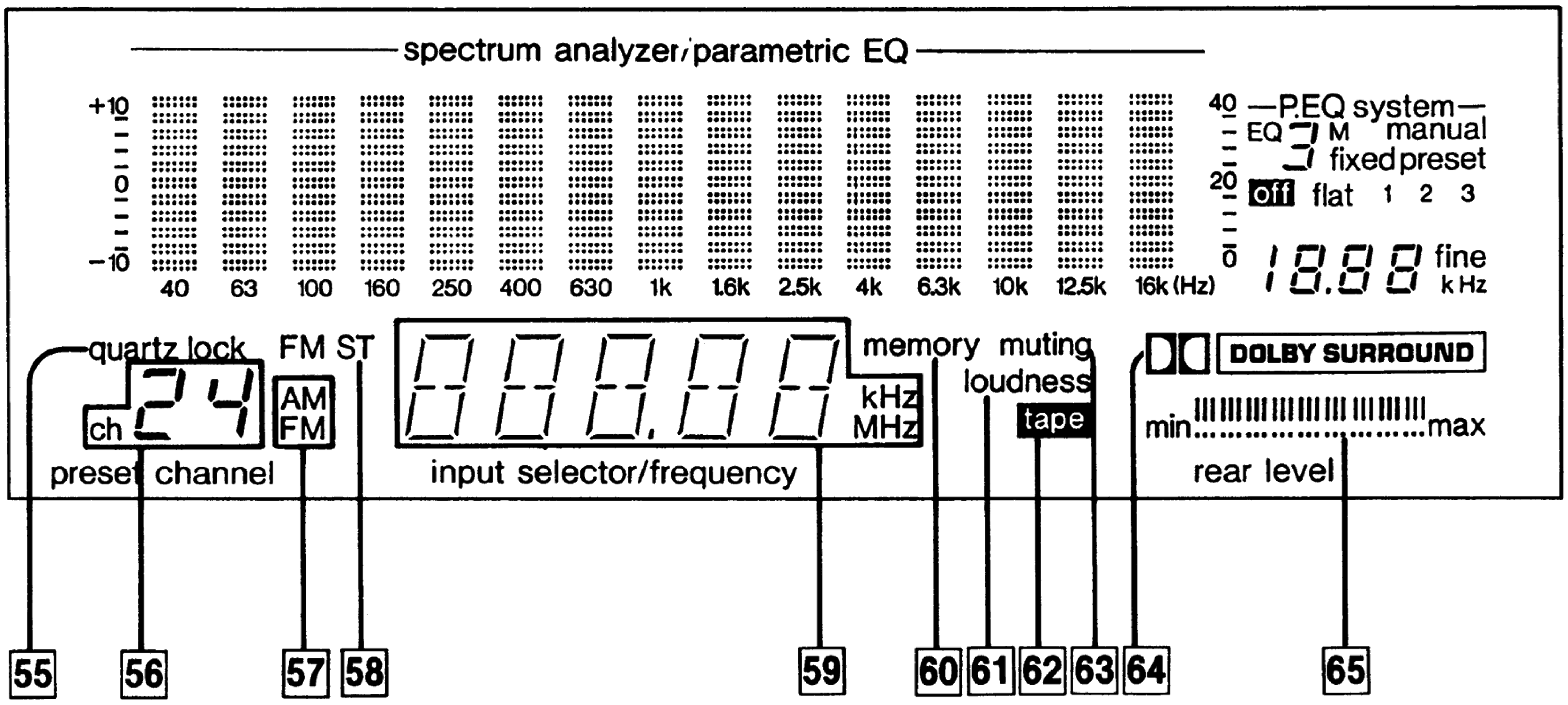
It displays the center frequency of the curves arranged by the user with the parametric EQ system or the curves pre-stored in this unit's memory.

53 Fine mode indicator (fine)

This indicator illuminates when the fine mode select button is selected.

54 Parametric EQ system off indicator (off)

This indicator illuminates when the parametric EQ system is off.



55 **Quartz-lock indicator (quartz lock)**
This indicator illuminates when the unit is tuned precisely to a broadcast station.

56 **Channel display**
This display shows the channel number selected by one of the preset-tuning buttons.

57 **Band indicators (AM/FM)**
Indicates the selected band.

58 **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.

59 **Audio input selector/frequency display (input selector/frequency)**
Displays the selected source or broadcast frequency.

60 **Memory indicator (memory)**
This indicator illuminates when the memory button is pressed.

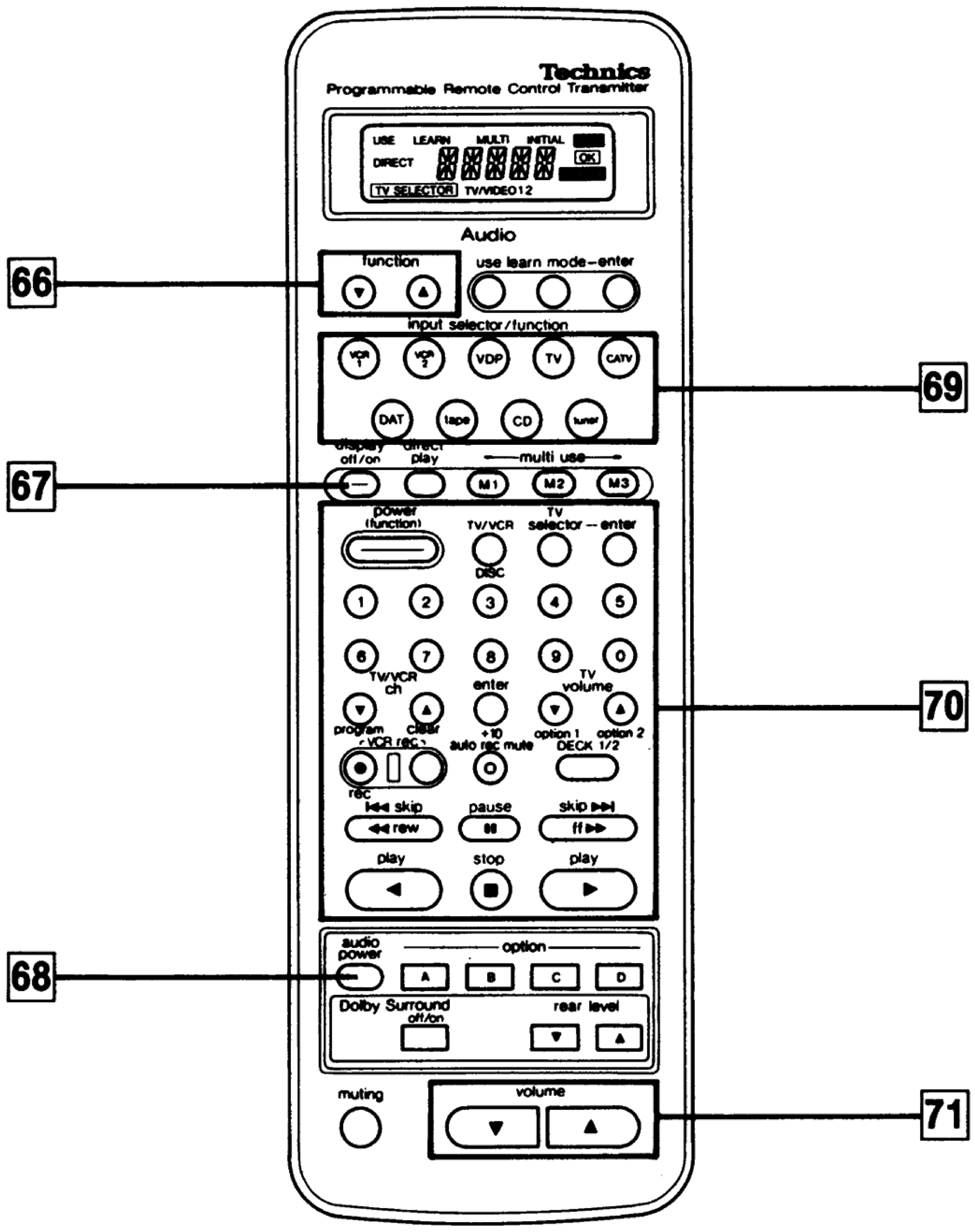
61 **Loudness indicator (loudness)**
This indicator will illuminate when the loudness switch is pressed.

62 **Tape indicator (tape)**
This indicator will illuminate when the tape-monitor switch is pressed.

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

64 **Dolby surround indicator (DD DOLBY SURROUND)**
This indicator illuminates when the Dolby surround ON/OFF switch is set to ON.

65 **Rear level indicator**
It displays the level adjusted by the rear speaker volume control buttons.



Remote control section

66 Function select keys

These keys are used to select the component to be controlled by this remote-control transmitter.

67 Display off/on key

This key is used to switch ON or OFF the display of this remote-control transmitter.
It automatically goes "OFF" when the display is not used for approximately 18 minutes.

68 Audio power key

This key is used to switch ON or OFF the power of the receiver.

69 Input/function select keys

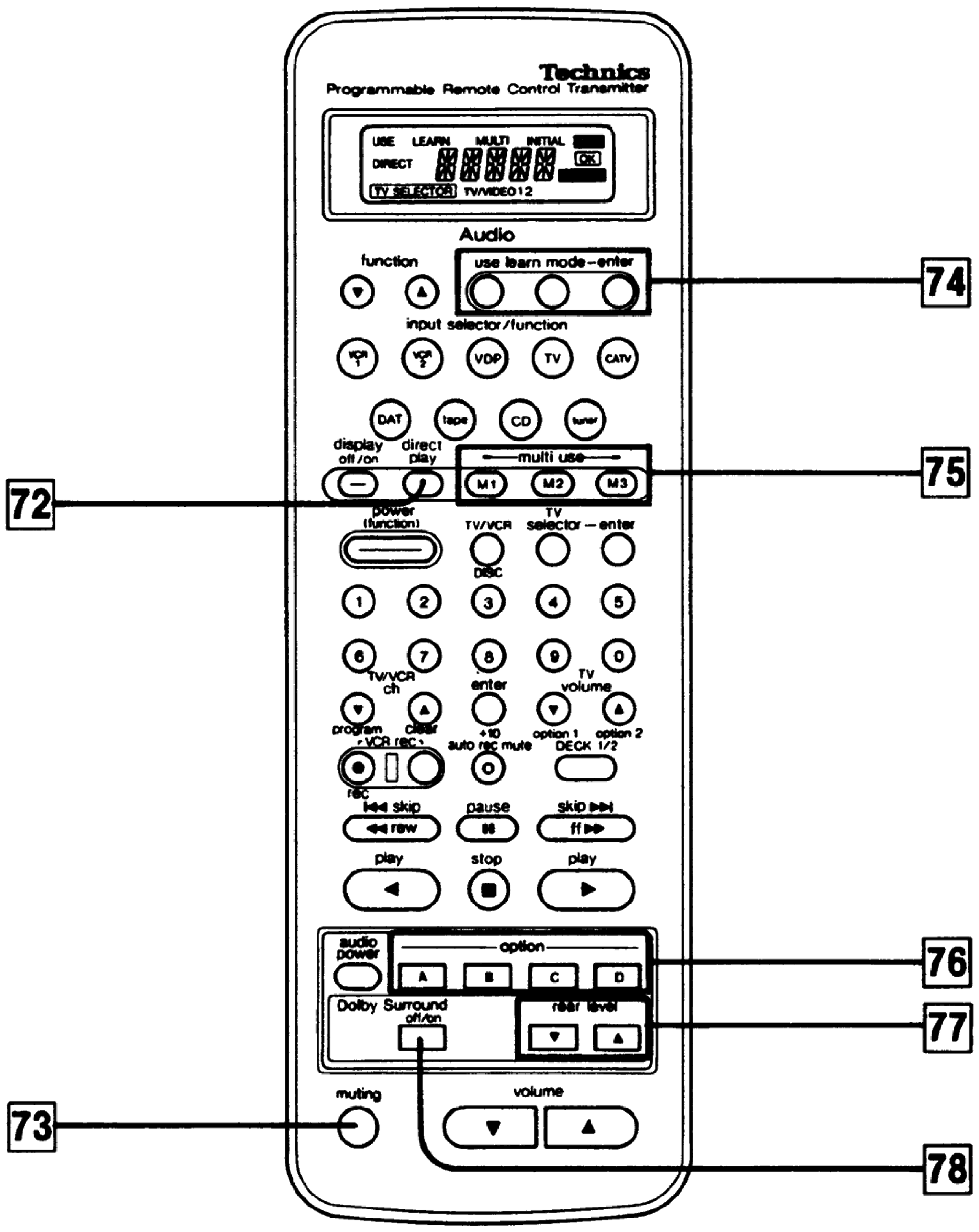
These keys are used to select the input source at the component and to select the component to be controlled by this remote-control transmitter.

70 Operation keys

These keys are used to select the desired function of the selected component.

71 Volume keys

These keys are used to adjust the volume level.



Remote control section

72 Direct play key

This key is used to change this remote-control transmitter to the "direct play" mode.

73 Muting key

This key is used to temporarily reduce the volume level.
The volume level is attenuated by 20 dB (approx. 1/10).
Press once again to resume to the previous volume level.

74 Operation mode select keys

These keys are used to select the operation mode to be operated by this remote-control transmitter.

use: Select the "use" key to set this remote-control transmitter for normal operation.

learn mode: Select the "learn mode" key to set this remote-control transmitter to the "learn" mode.

enter: Select the "enter" key to select the mode.
(See item 80.)

75 Multi-function keys

These keys are used to memorize a series of codes (up to 8 codes) and transmit these codes in a single operation.

76 Optional keys

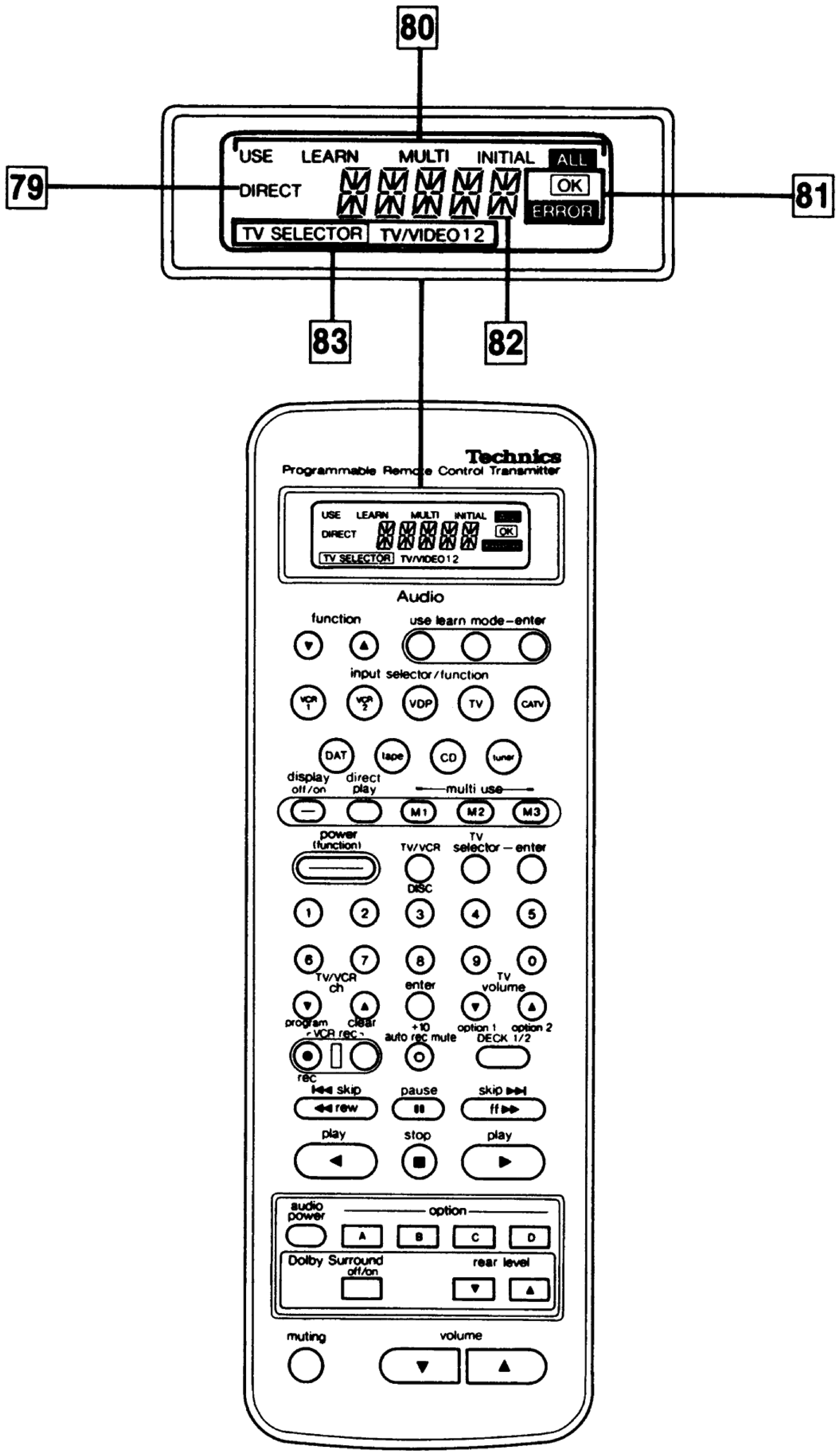
These keys are used to memorize a code to be used frequently.

77 Rear speaker volume keys

These keys are used to adjust the volume level of the surround speaker systems.

78 Dolby surround ON/OFF key

This key is used to activate the Dolby surround effect.
When this key is switched OFF, no sound will be heard from the surround speaker systems.



Remote control section (continued)

79 Direct indicator

This indicator illuminates when this remote-control transmitter is set to the "direct play" mode.

80 Operation mode indicators

One of these indicators shows the operation mode to be operated by this remote-control transmitter.

81 OK / ERROR indicators

82 TV input indicator

83 Component display

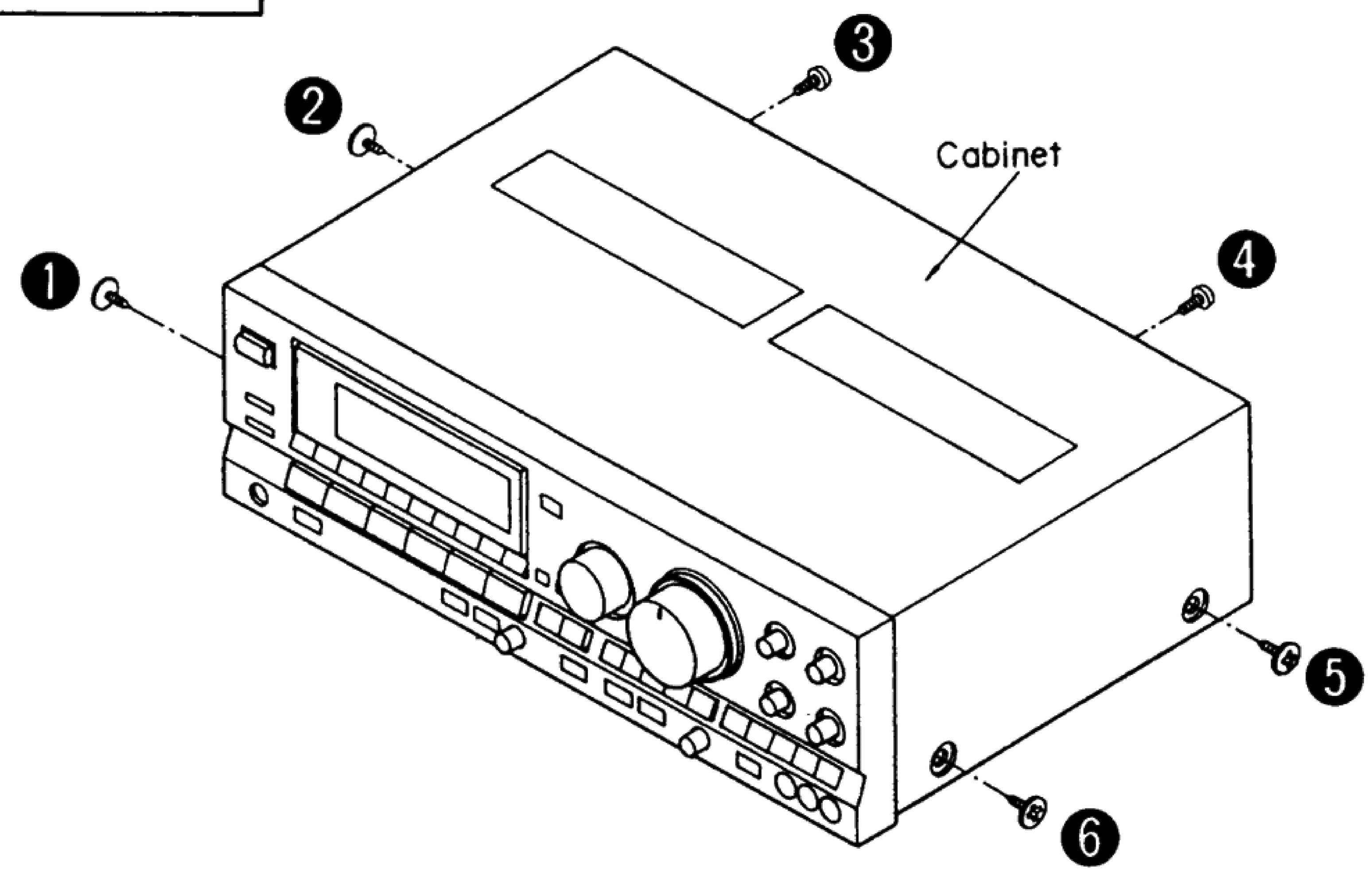
This display shows which of the component functions has been selected.

The display shows "FULL" if memory capacity is exceeded when signals from another remote-control transmitter are memorized.

DISASSEMBLY INSTRUCTIONS

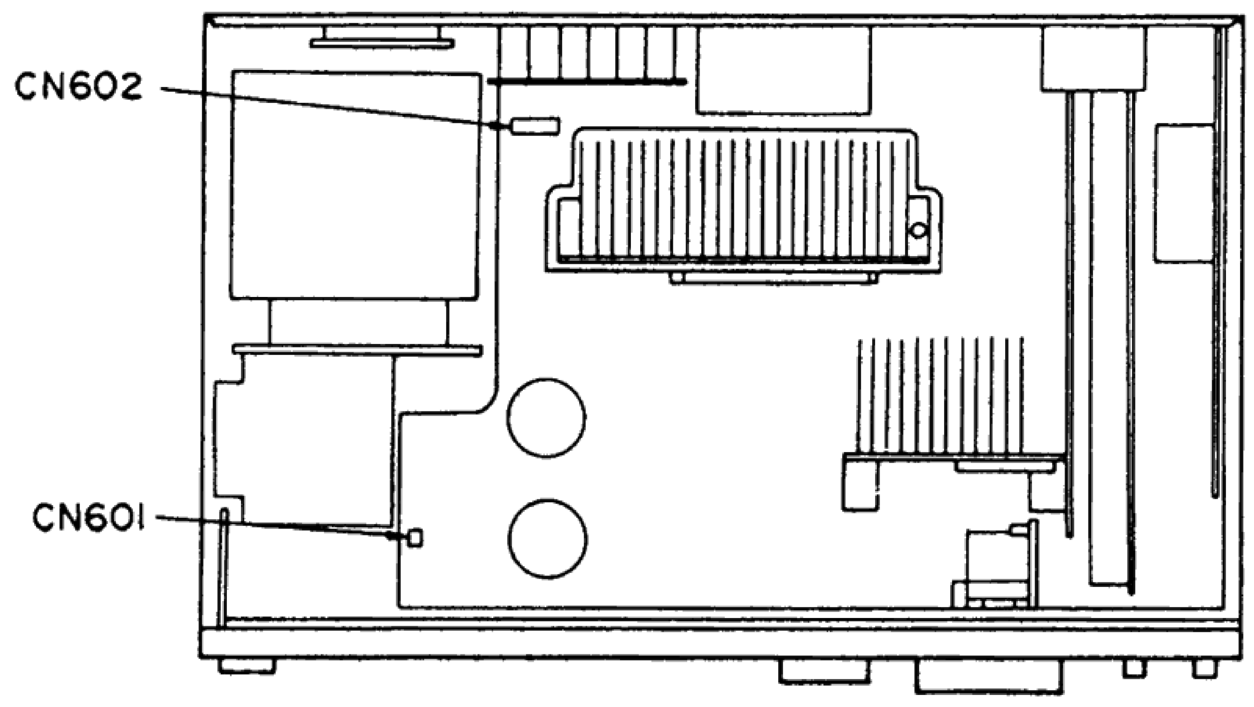
"ATTENTION SERVICER"
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

Ref. No. 1	Removal of the cabinet
Procedure 1	

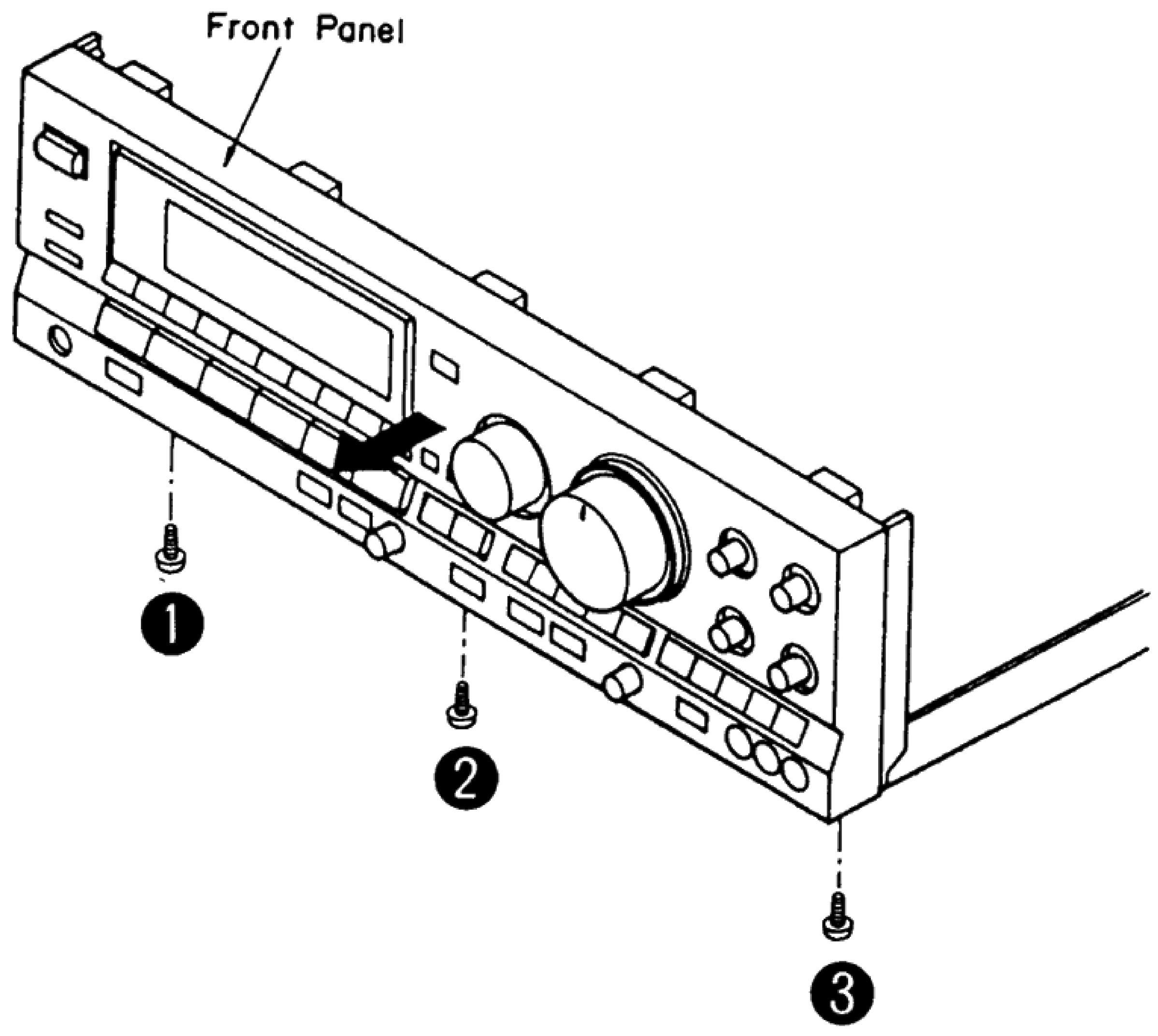


• Remove the 6 screws (❶~❻).

Ref. No. 2	Removal of the front panel
Procedure 1→2	1. Remove the 2 flat cables (CN601, CN602).

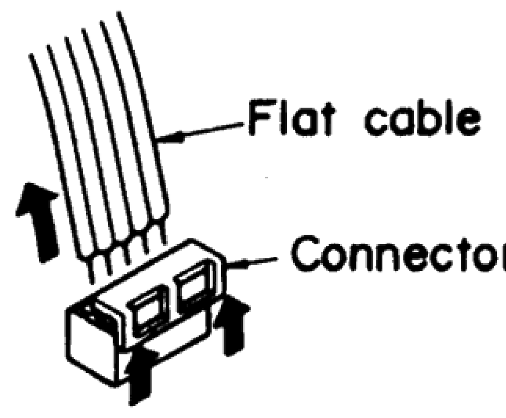


2. Remove the 3 screws (❶~❸).
3. Remove the front panel in the direction of the arrow.

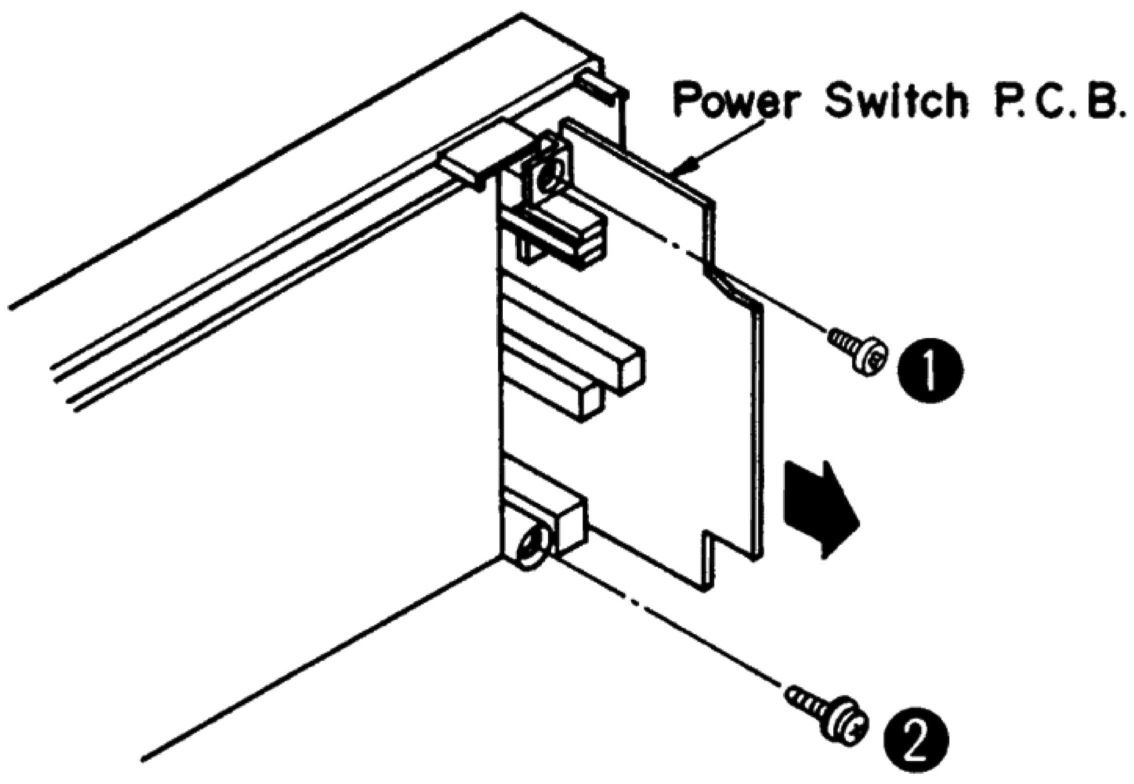


How to remove the flat cable

1. Lift the connector.
2. Pull out the flat cable.

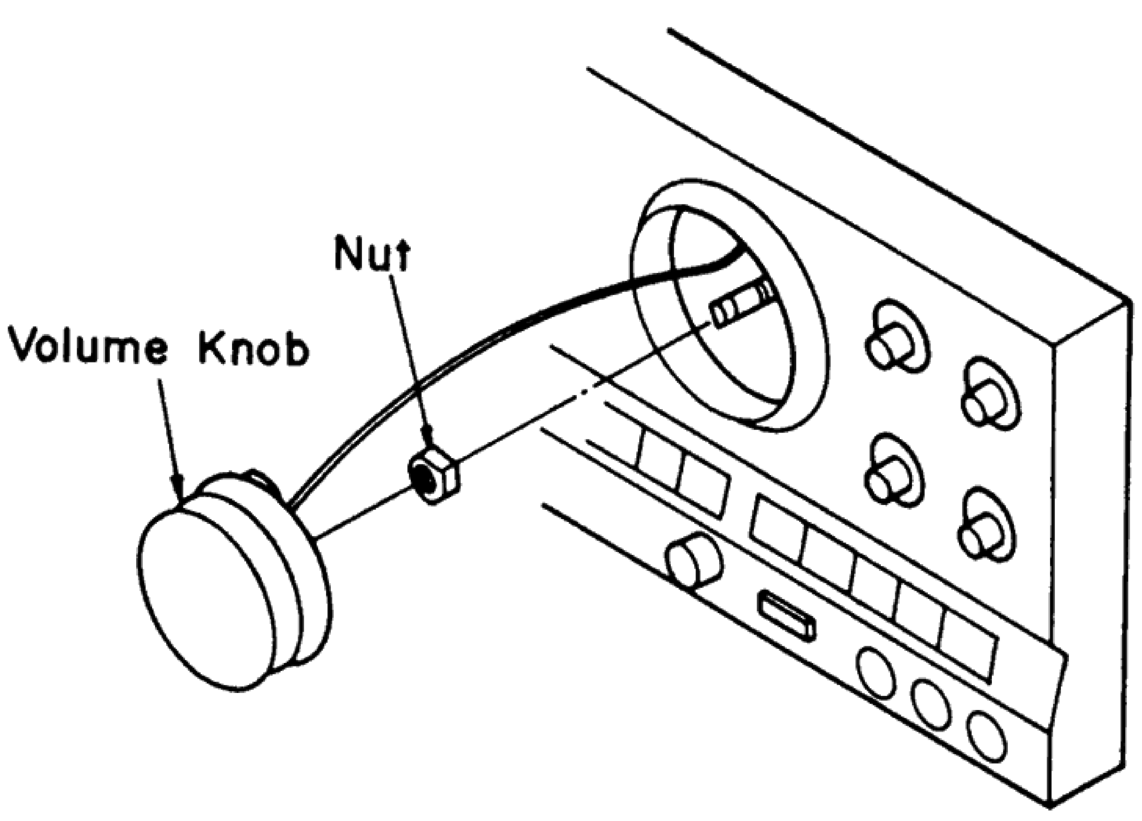


Ref. No. 3	Removal of the power switch P.C.B.
Procedure 1→2→3	

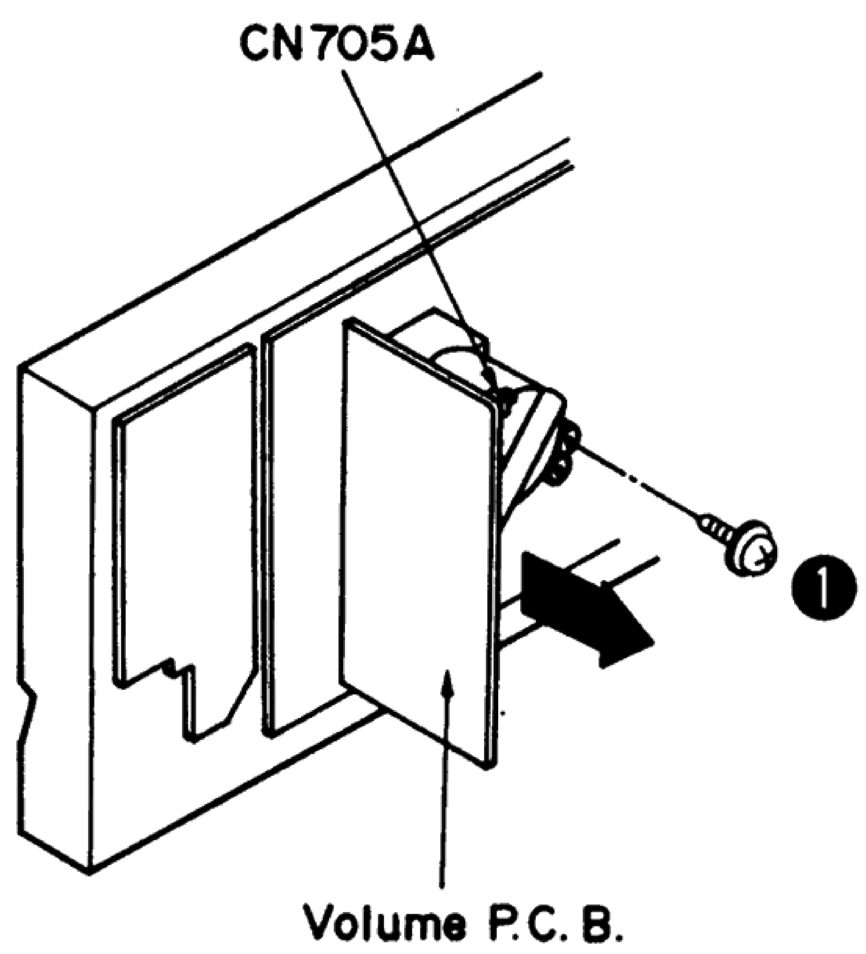


• Remove the 2 screws (❶, ❷).

Ref. No. 4	Removal of the volume P.C.B.
Procedure 1→2→4	



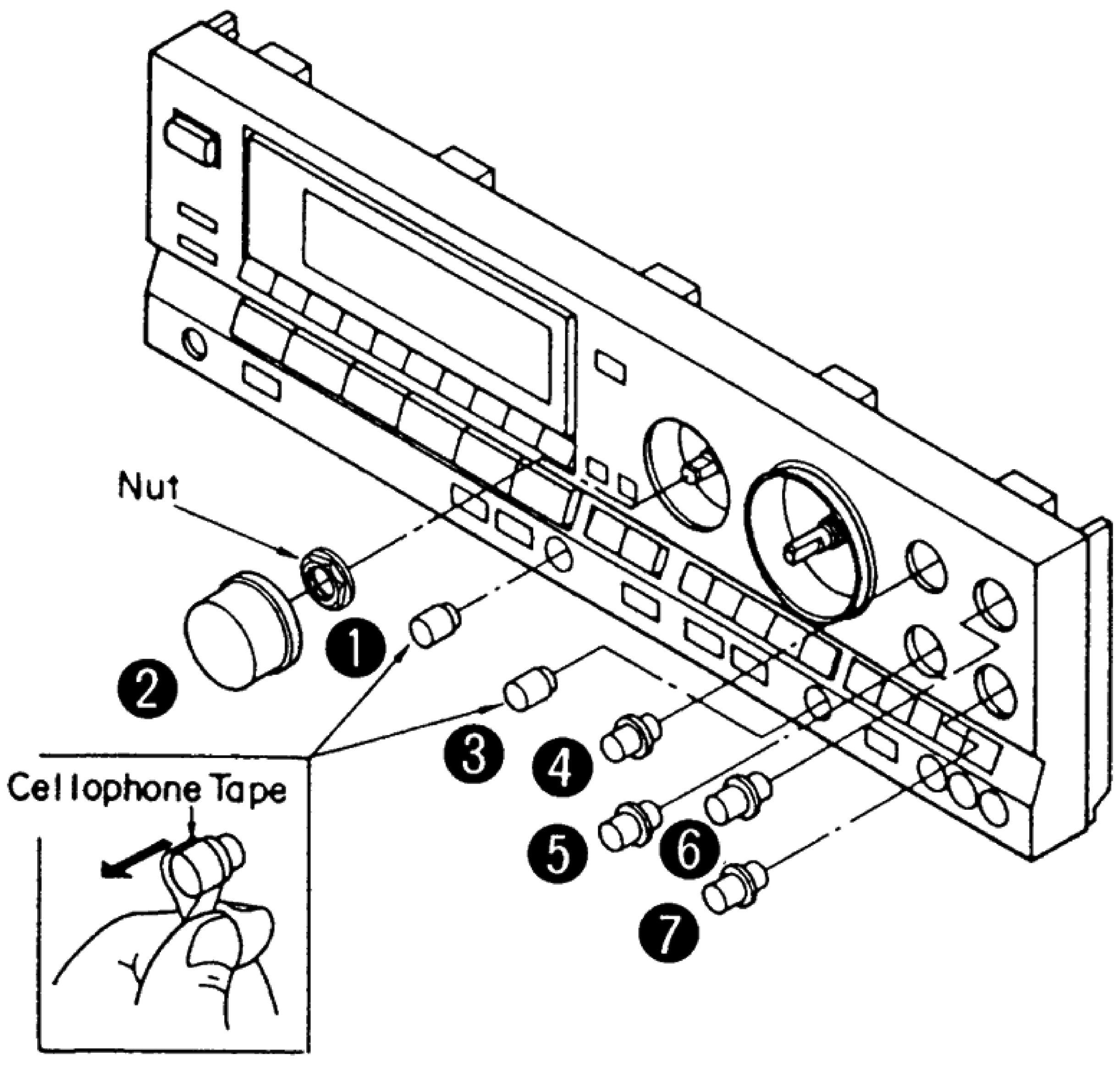
1. Pull out the volume knob.
2. Remove the nut.

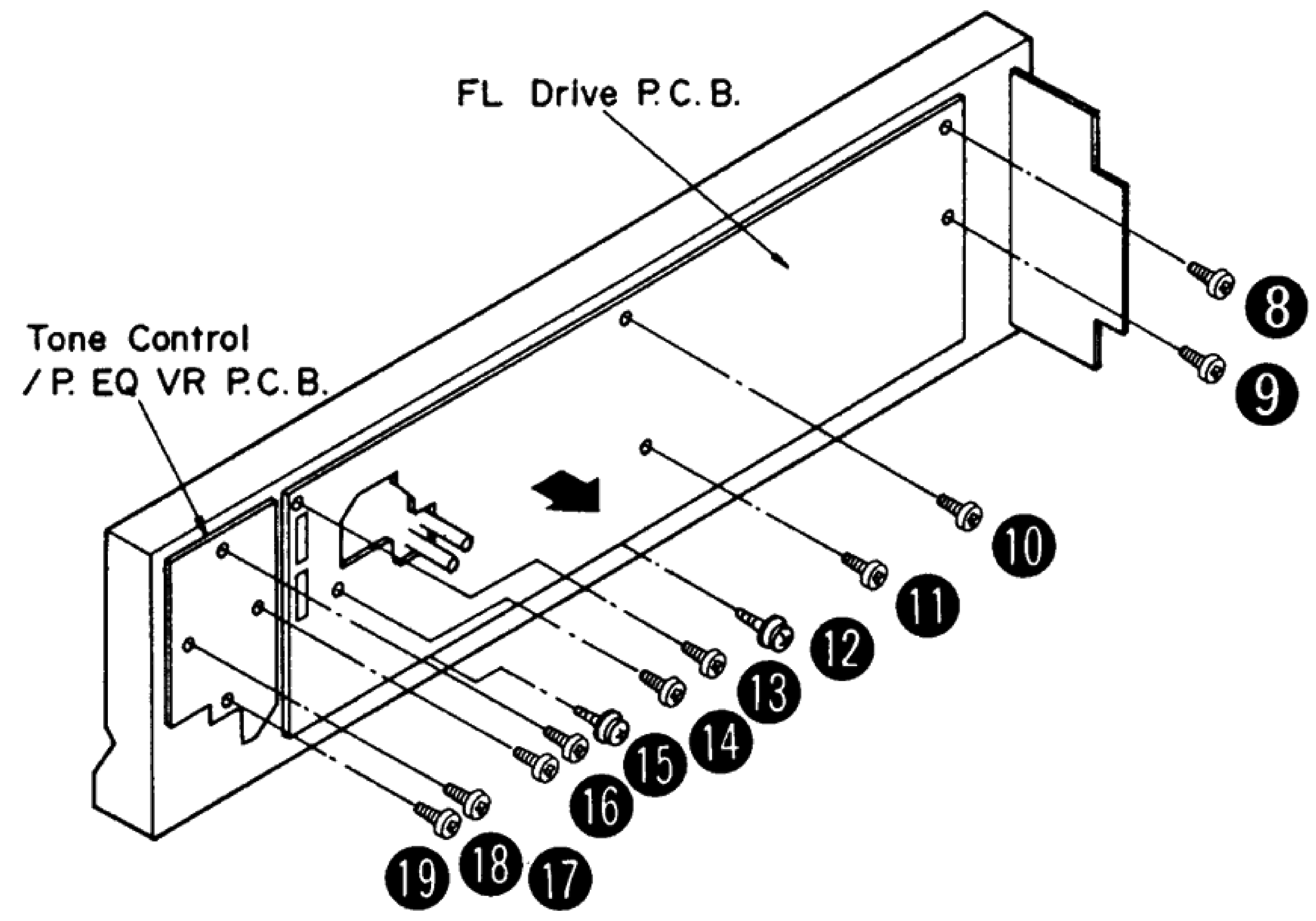


3. Remove the 1 screw (❶).
4. Remove the 1 connector (CN705A).
5. Remove the volume P.C.B. in the direction of the arrow.

Ref. No. 5	Removal of the FL drive P.C.B. and tone control/P.EQ VR P.C.B.

Procedure
1→2→4→5

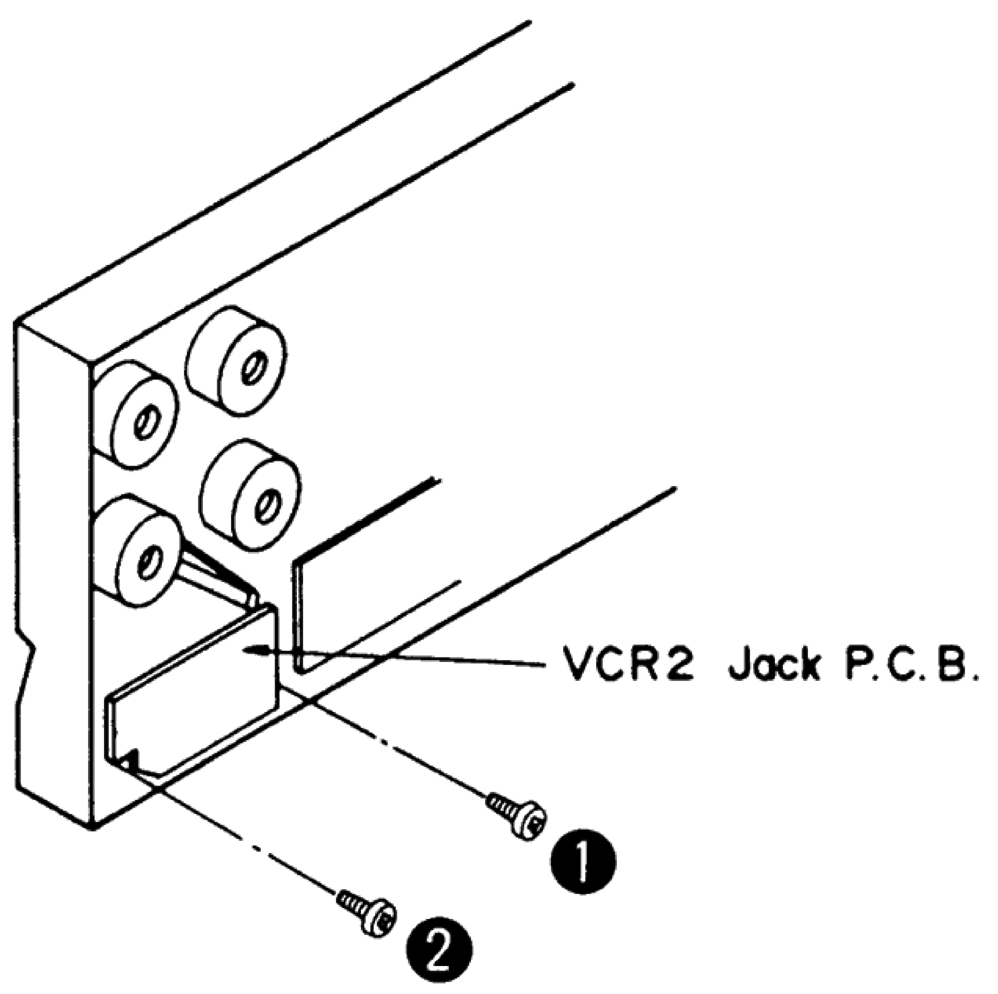




1. Pull out the 7 knobs (❶~❼)
2. Remove the nut.
3. Remove the 12 screws (❽~⓳).

Ref. No. 6	Removal of the VCR2 jack P.C.B.

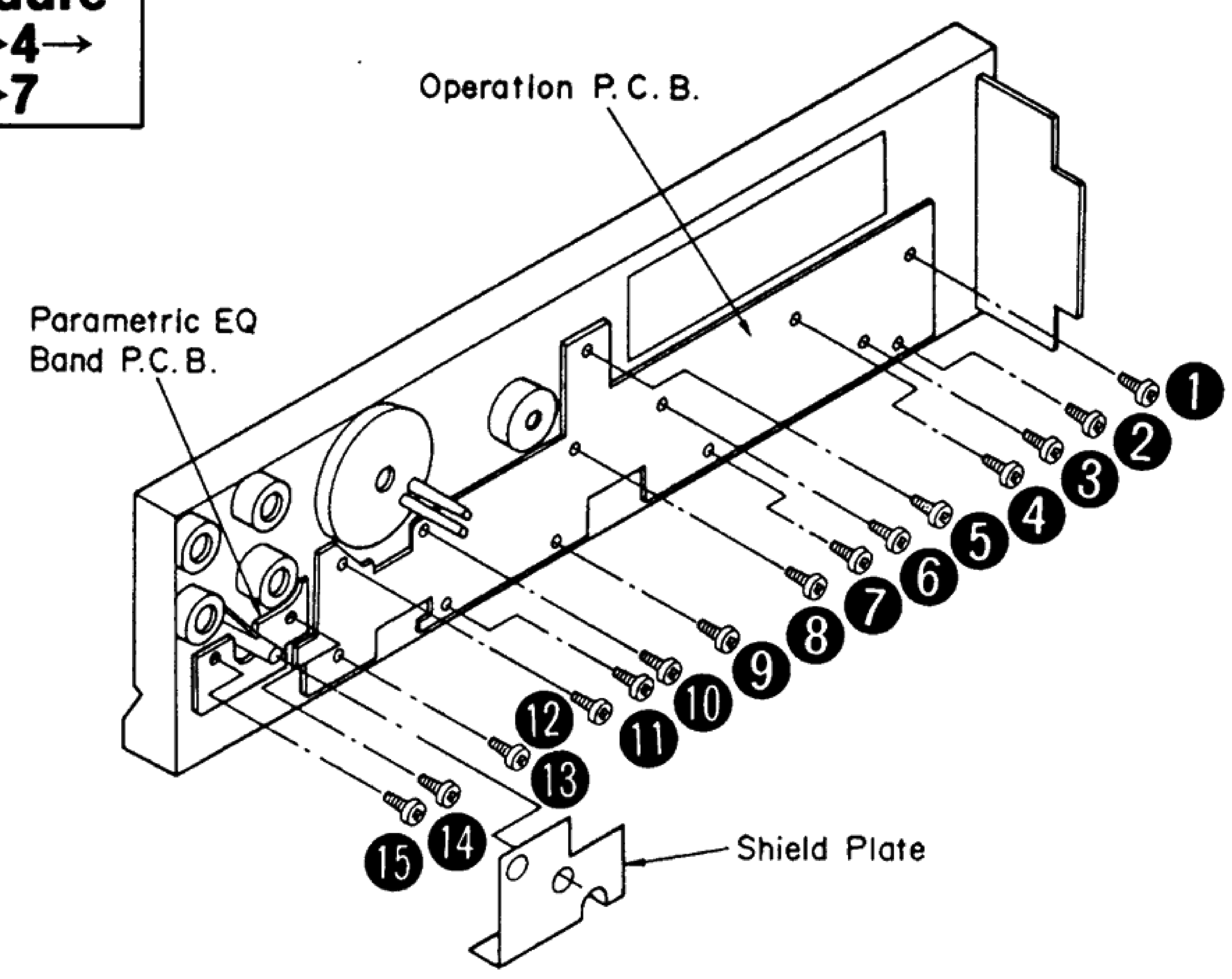
Procedure
1→2→4→5→6



• Remove the 2 screws (❶, ❷).

Ref. No. 7	Removal of the operation P.C.B. and parametric EQ band P.C.B.

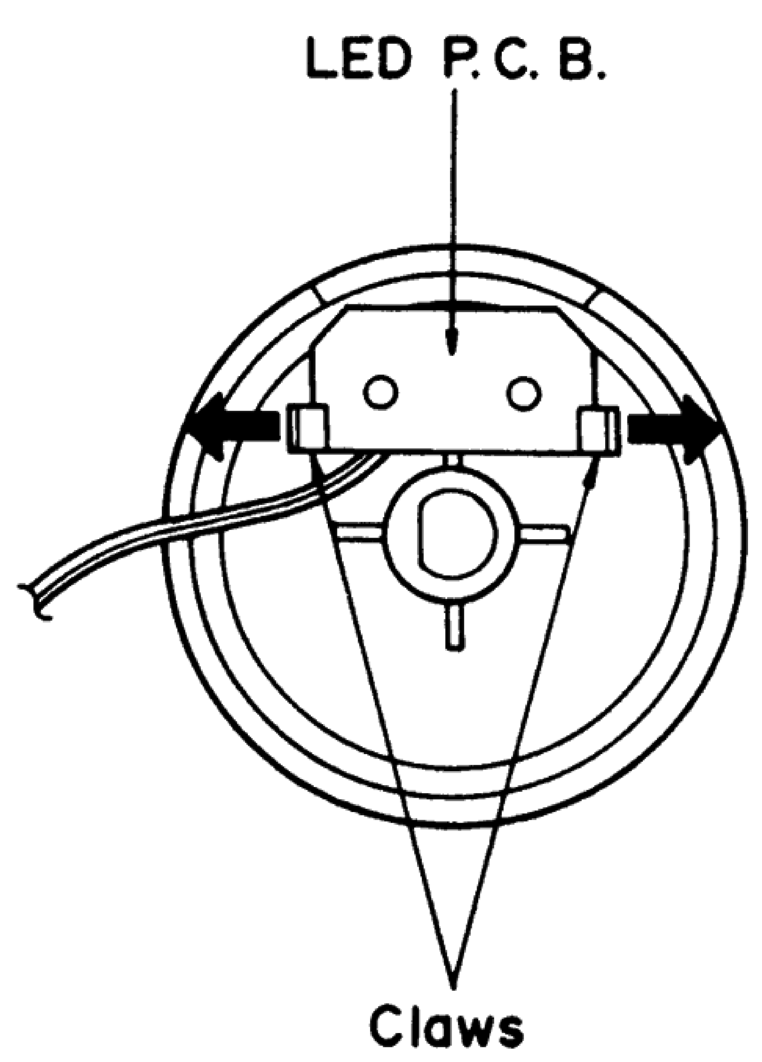
Procedure
1→2→4→5→6→7



• Remove the 15 screws (❶~⓯).

Ref. No. 8	Removal of the LED P.C.B.

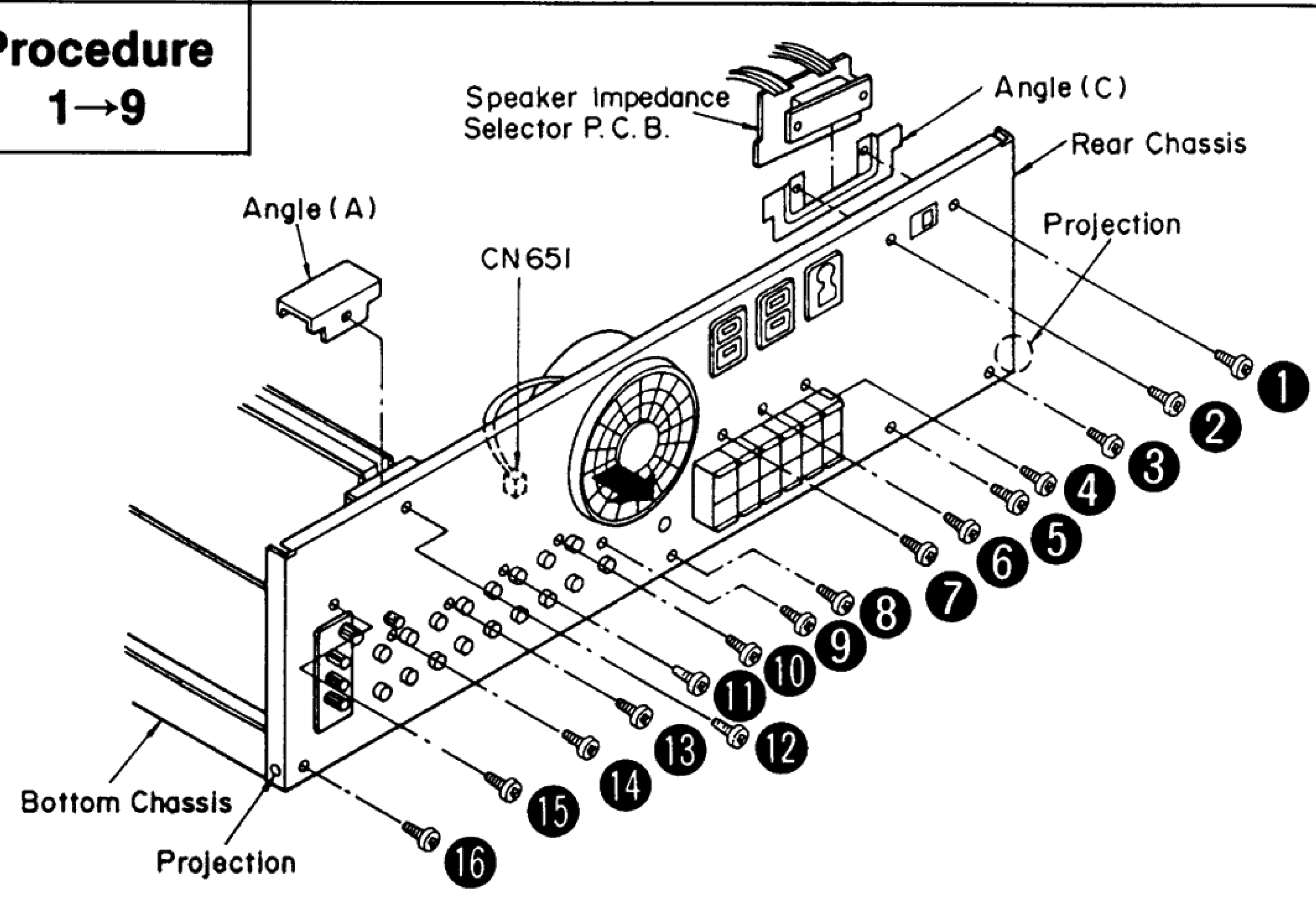
Procedure
1→2→4→8



• Release the 2 claws.

Ref. No. 9	Removal of the speaker impedance selector P.C.B. and rear chassis

Procedure
1→9

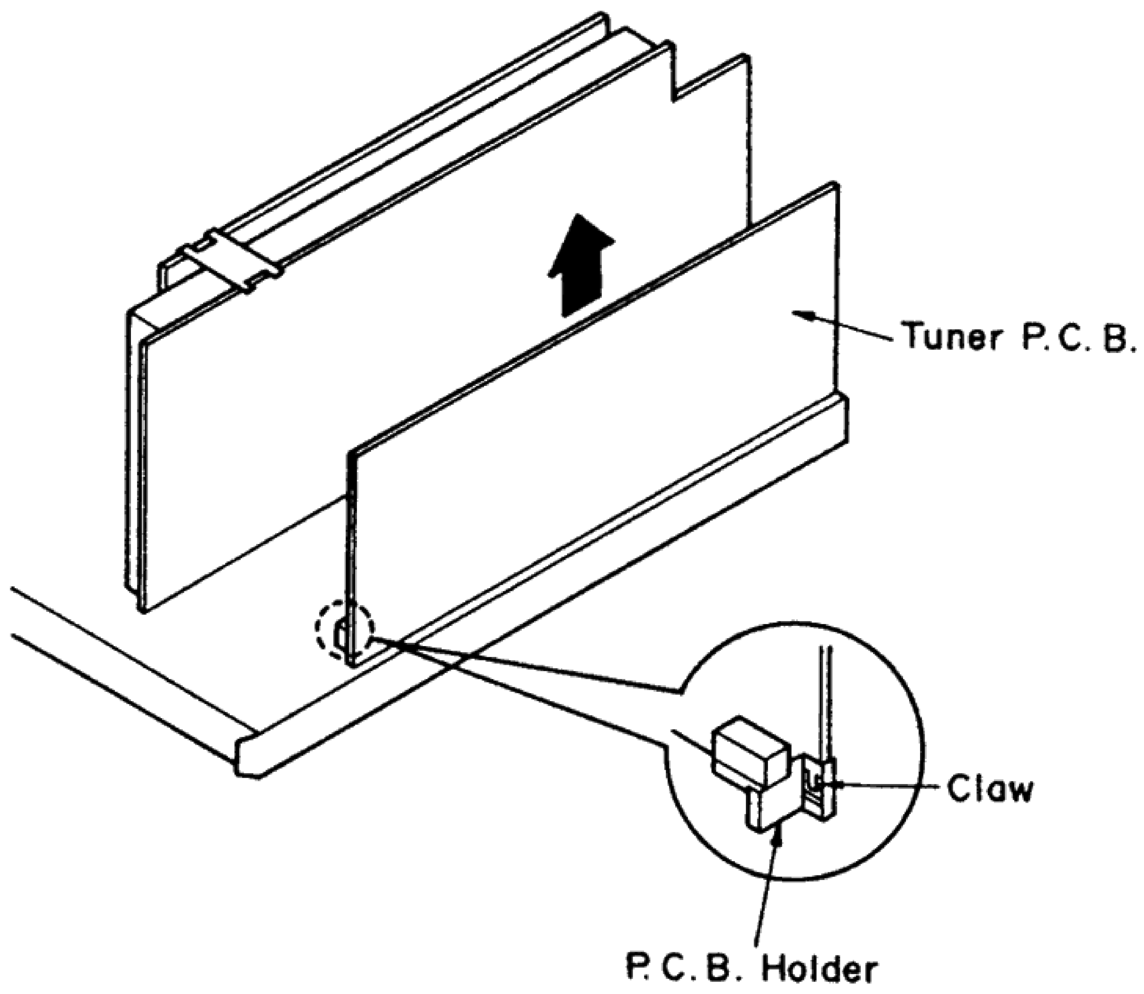


1. Remove the 1 connector (CN651).
2. Remove the 16 screws (❶~⓰).
3. Remove the angle (A) and angle (C).
4. Remove the rear chassis from the projection of the bottom chassis.

Ref. No. 10

Removal of the tuner P.C.B.

Procedure
1→2→9→10

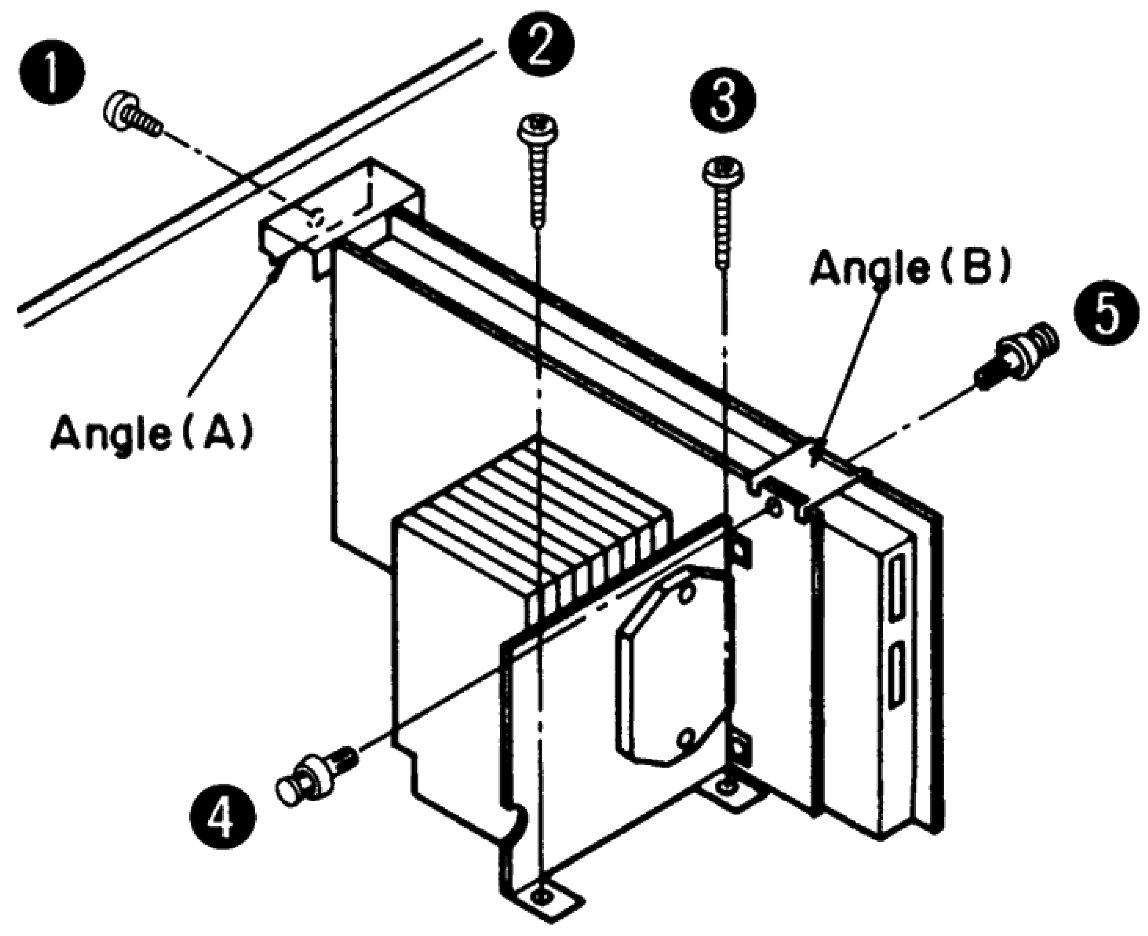


1. Release the 1 claw.
2. Remove the tuner P.C.B. in the direction of the arrow.

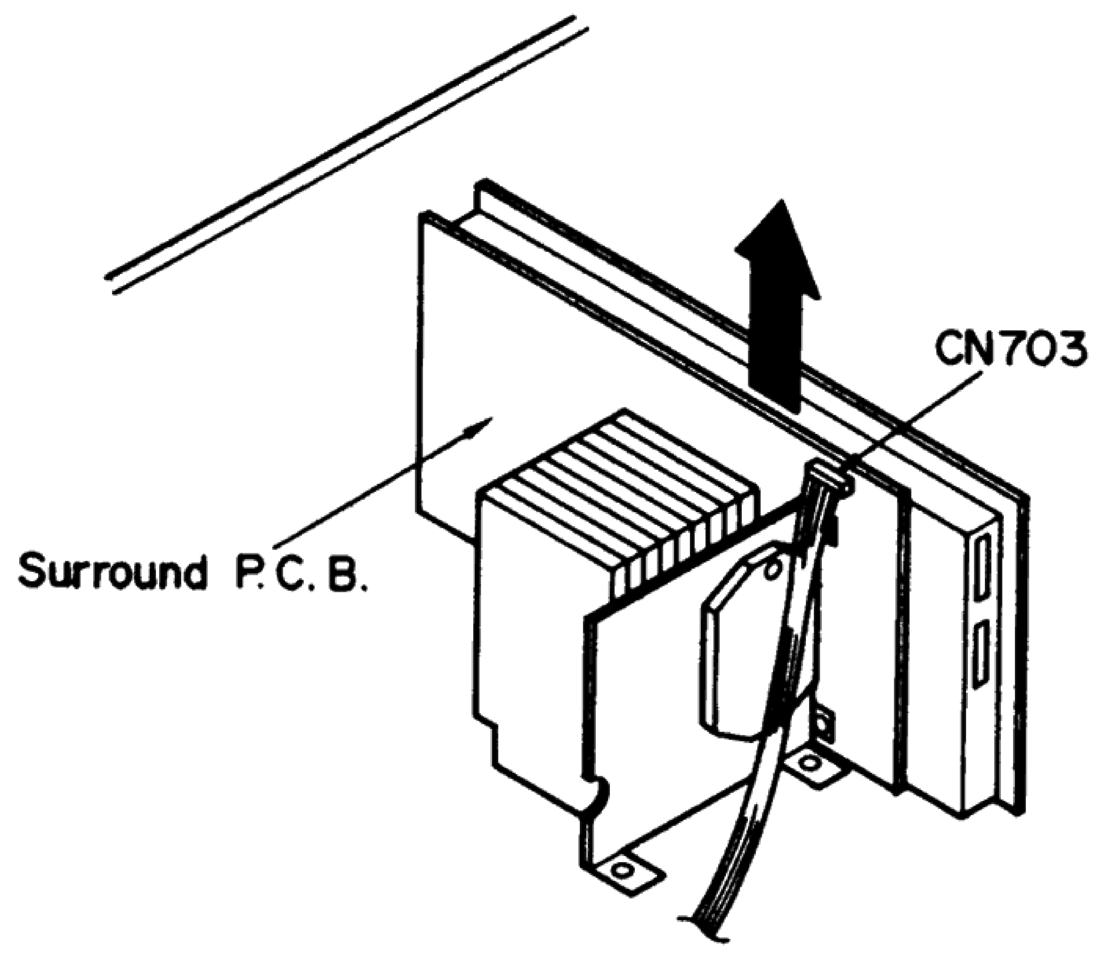
Ref. No. 11

Removl of the surround P.C.B.

Procedure
1→2→11



1. Remove the 3 screws (❶~❸).
2. Remove the angle (A).
3. Remove the 2 latch (❹, ❺).
4. Remove the angle (B).

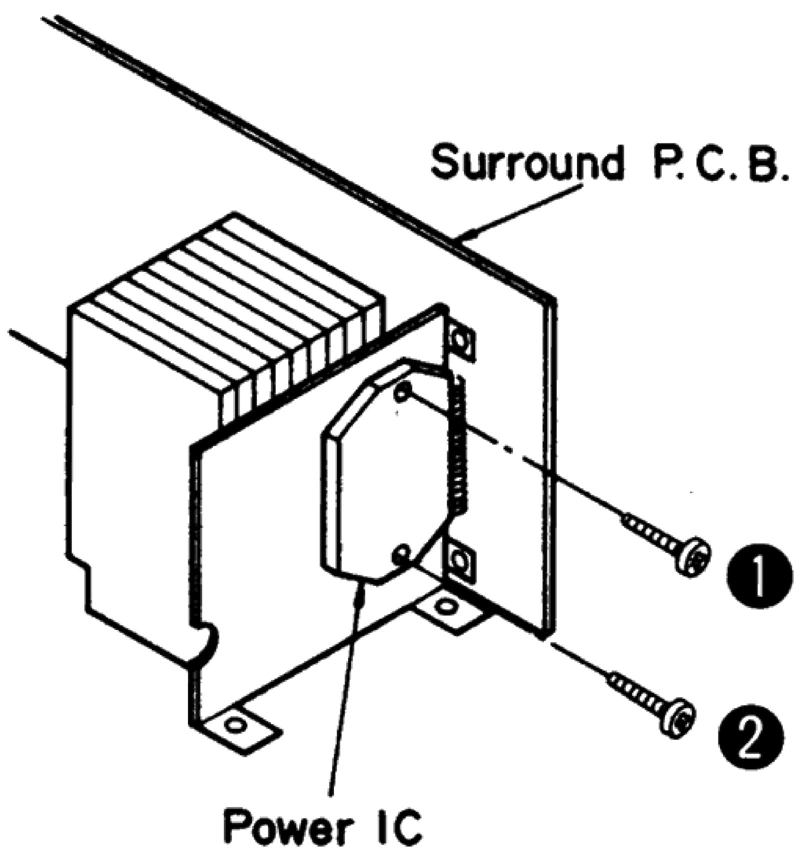


5. Remove the 1 flat cable (CN703).
6. Remove the surround P.C.B. in the direction of the arrow.

Ref. No. 12

Removal of the Power IC

Procedure
1→2→11
→12



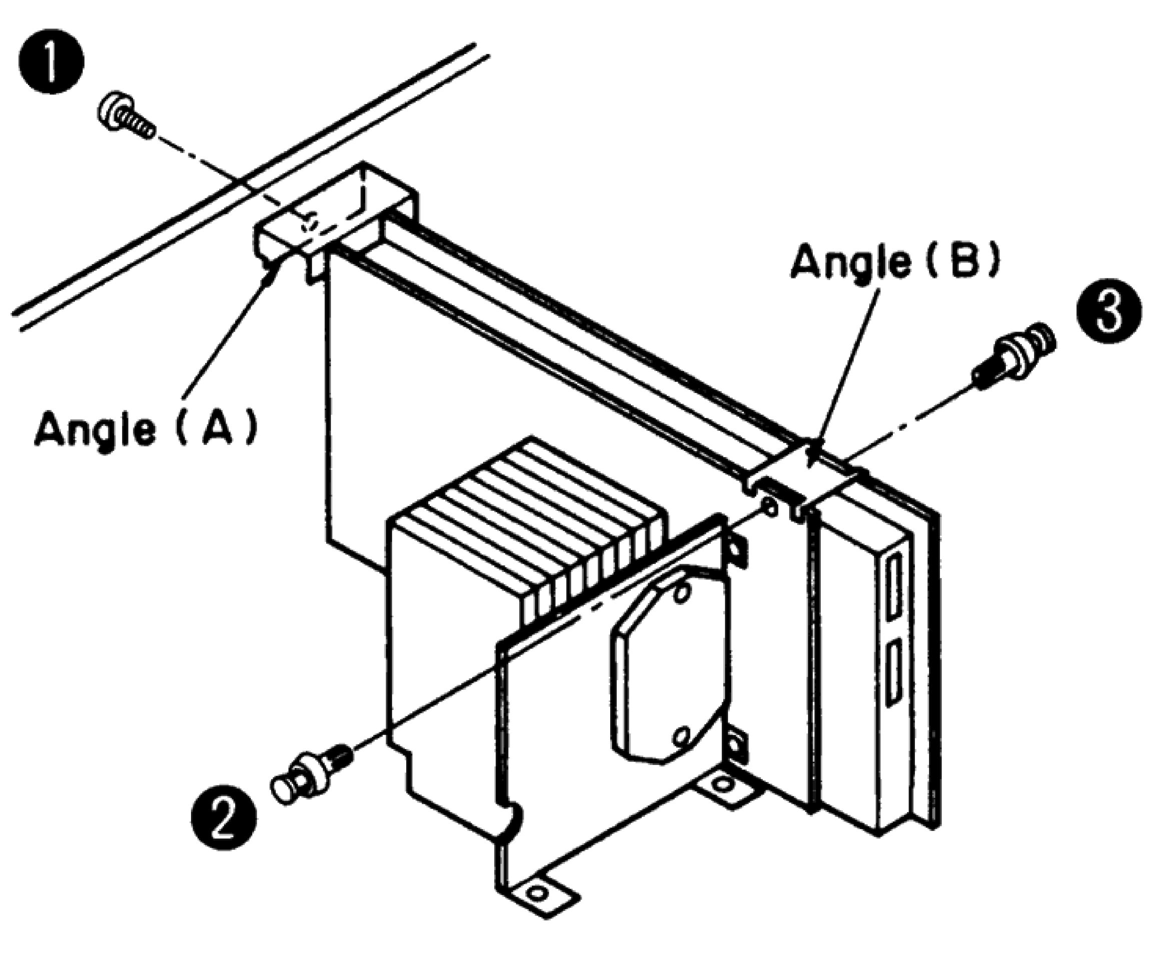
1. Unsolder the power IC.
2. Remove the 2 screws (❶, ❷).

- When mounting the power IC, apply silicon thermal compound (SZZ0L15 or equivalent) to the rear of the power IC.

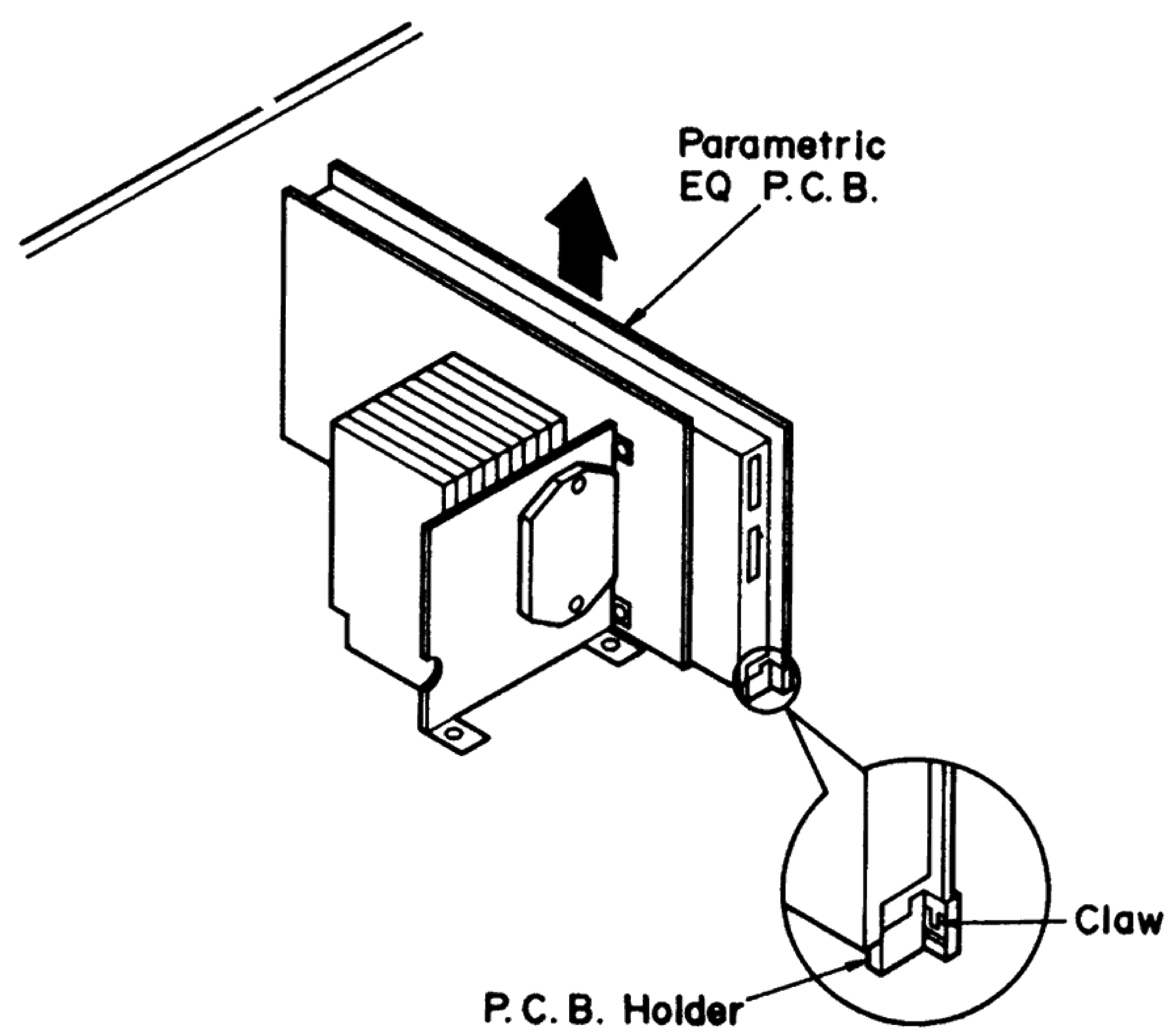
Ref. No. 13

Removal of the parametric EQ P.C.B.

Procedure
1→2→13

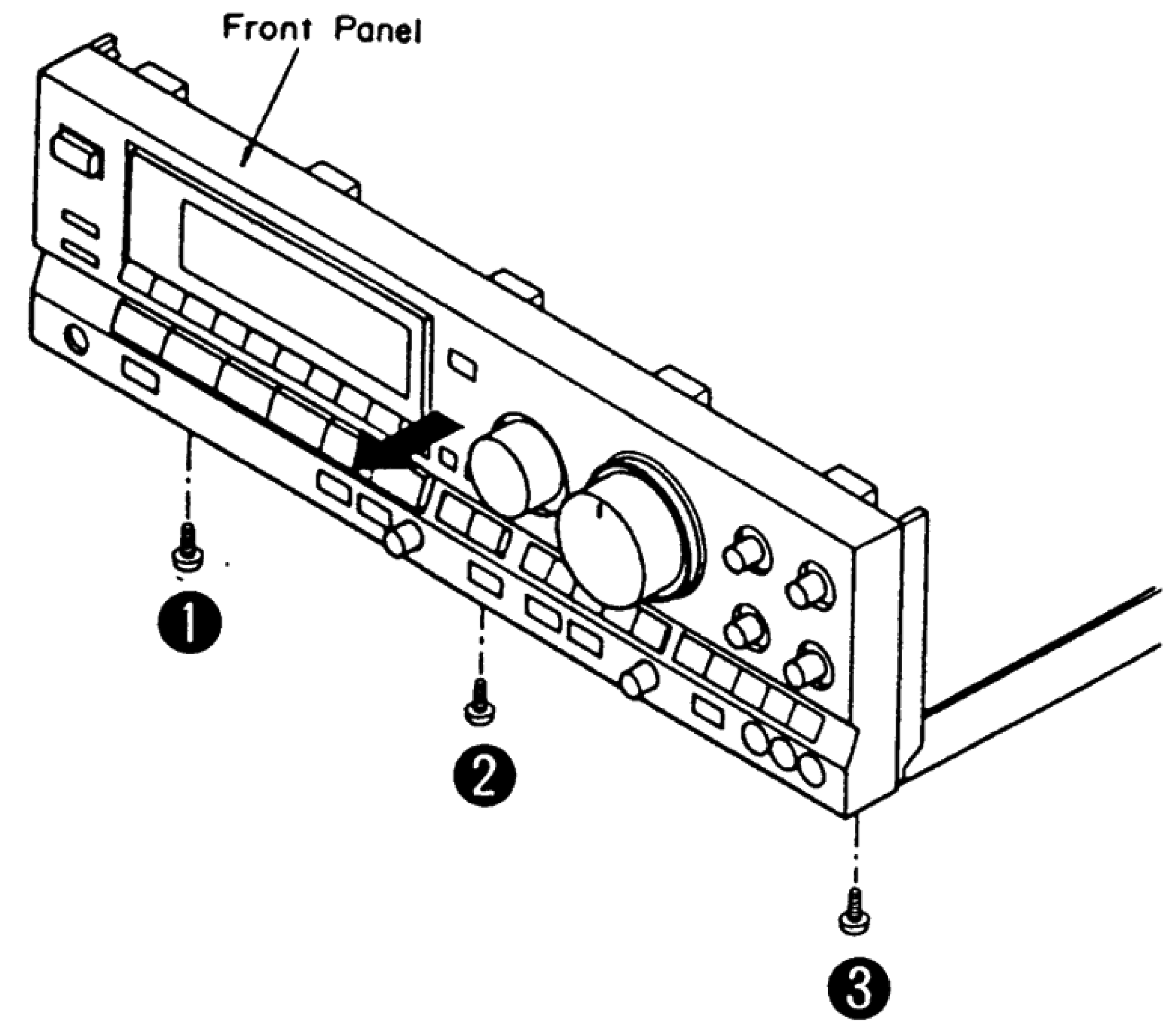


1. Remove the 1 screw (❶).
2. Remove the angle (A).
3. Remove the 2 latch (❷, ❸).
4. Remove the angle (B).

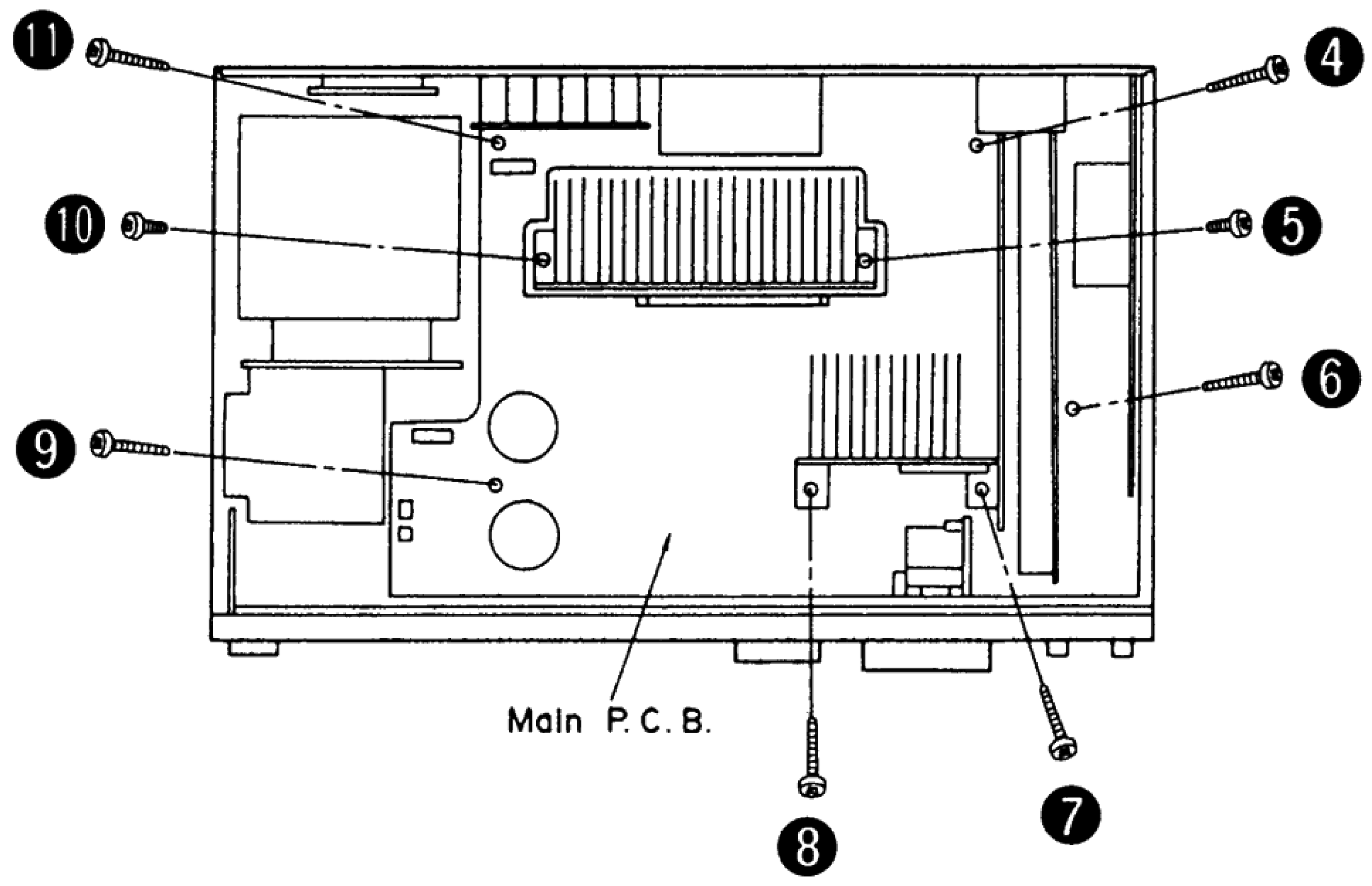


5. Release the 1 claw.
6. Remove the parametric EQ P.C.B. in the direction of the arrow.

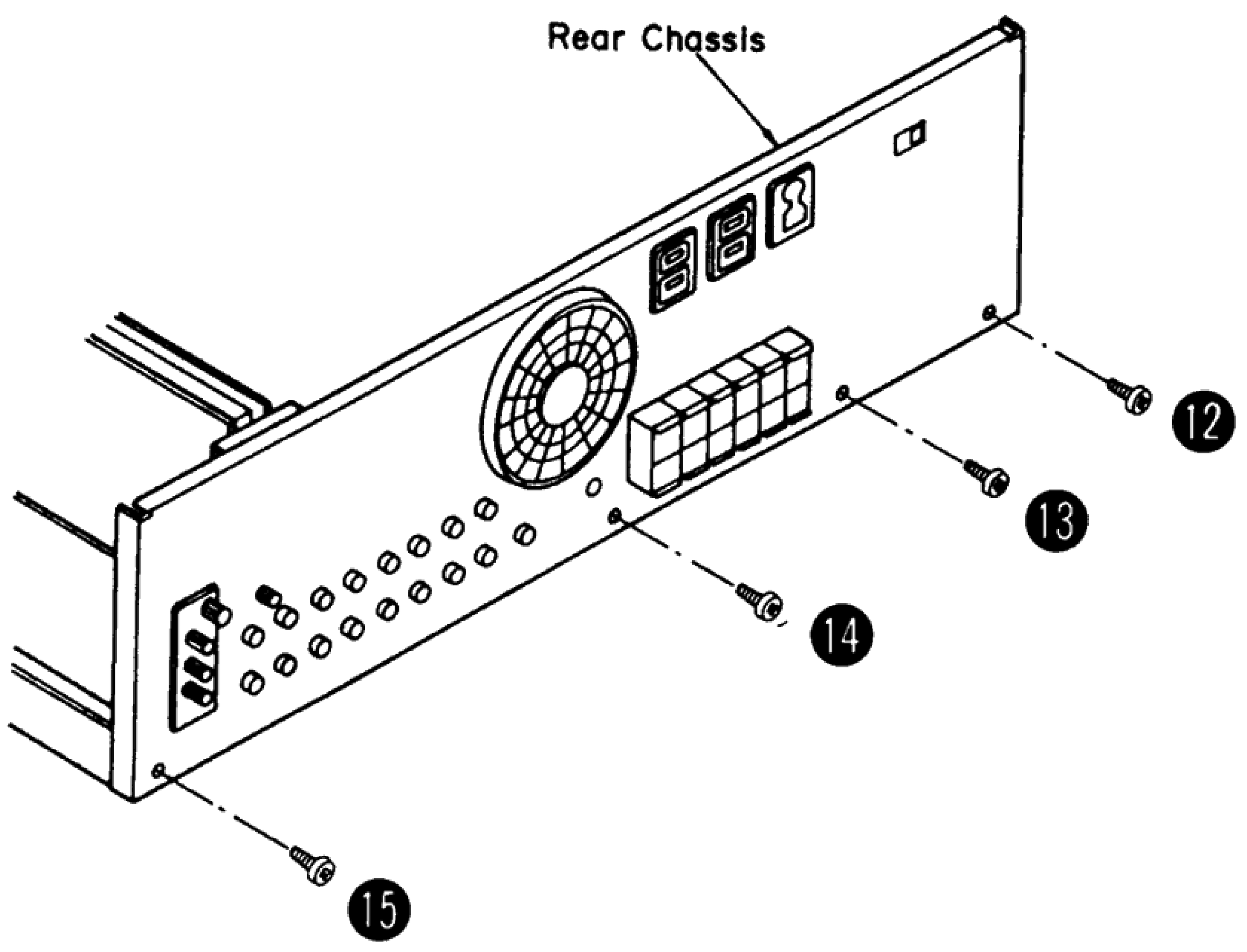
Ref. No. 14	How to check the main P.C.B.
Procedure 1→14	



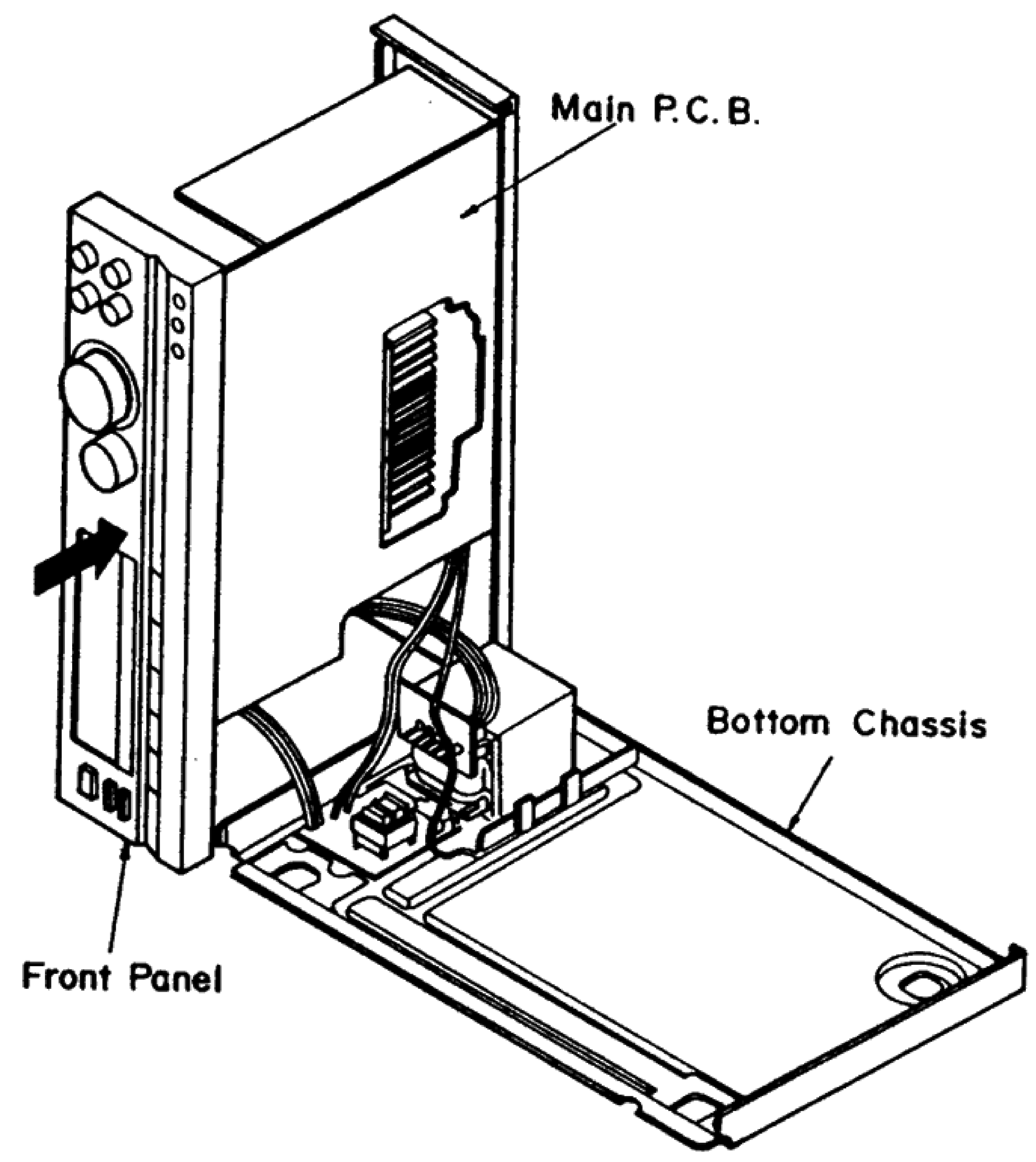
1. Remove the 3 screws (❶~❸).
2. Remove the front panel in the direction of the arrow.



3. Remove the 8 screws (❹~⓫).

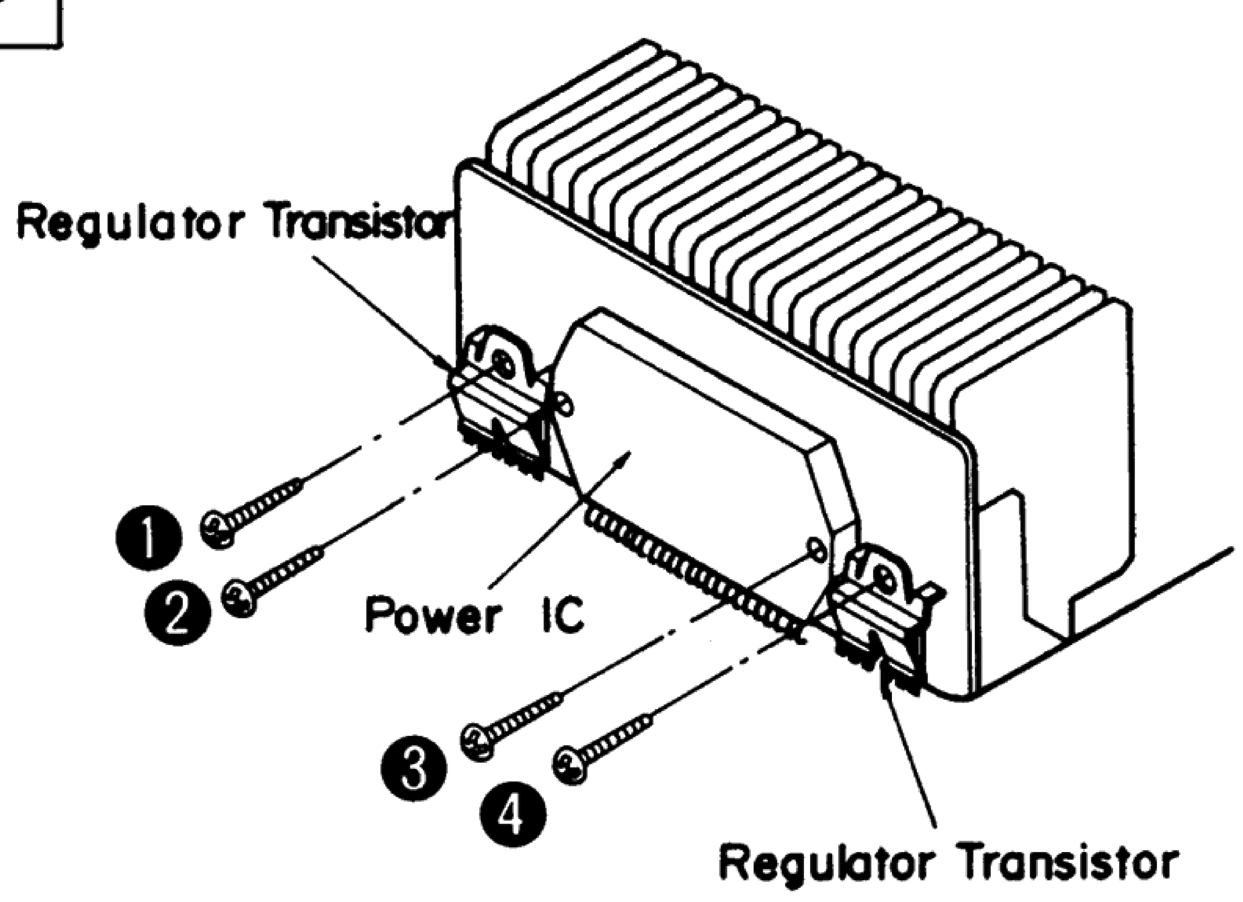


4. Remove the 4 screws (⓬~⓯).



5. Remove the bottom chassis.
6. Reinstall the front panel to the main P.C.B.

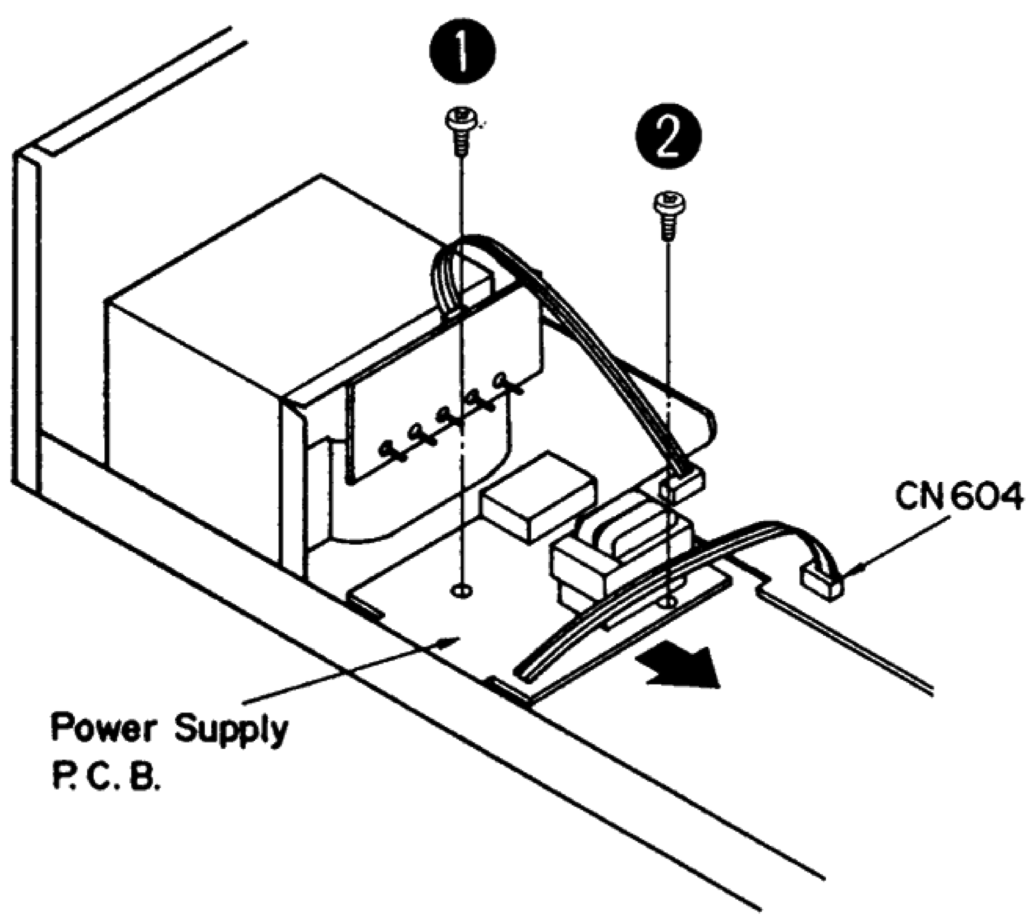
Ref. No. 15	Removal of the power IC and regulator transistor
Procedure 1→14→15	



1. Unsolder the power IC or regulator transistor.
2. Remove the 4 screws (❶~❹).

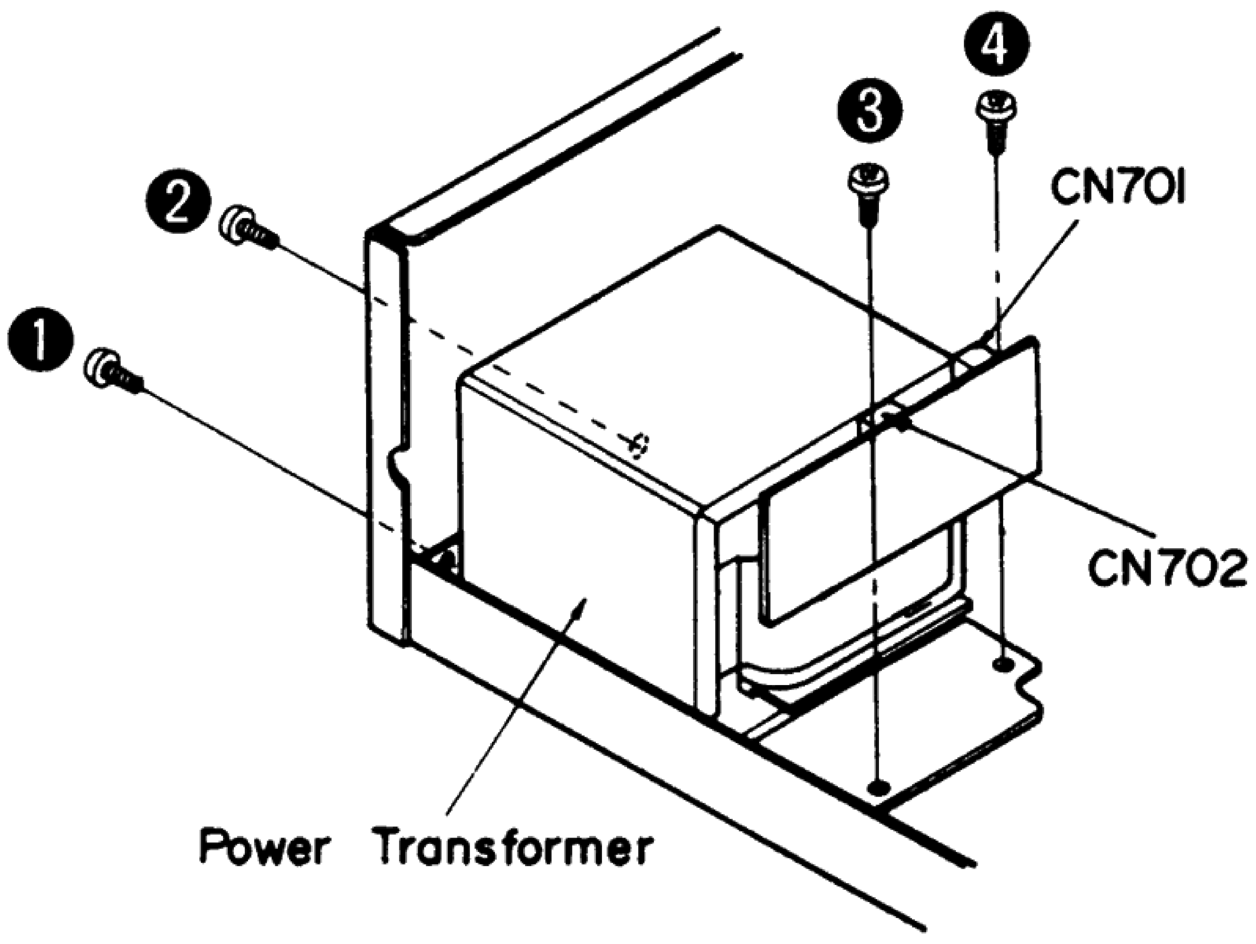
• **When mounting the power IC or regulator transistor.** Apply silicone compound (SZZ0L15) to the rear side of power IC or regulator transistor.

Ref. No. 16	Removal of the power supply P.C.B.
Procedure 1→2→16	



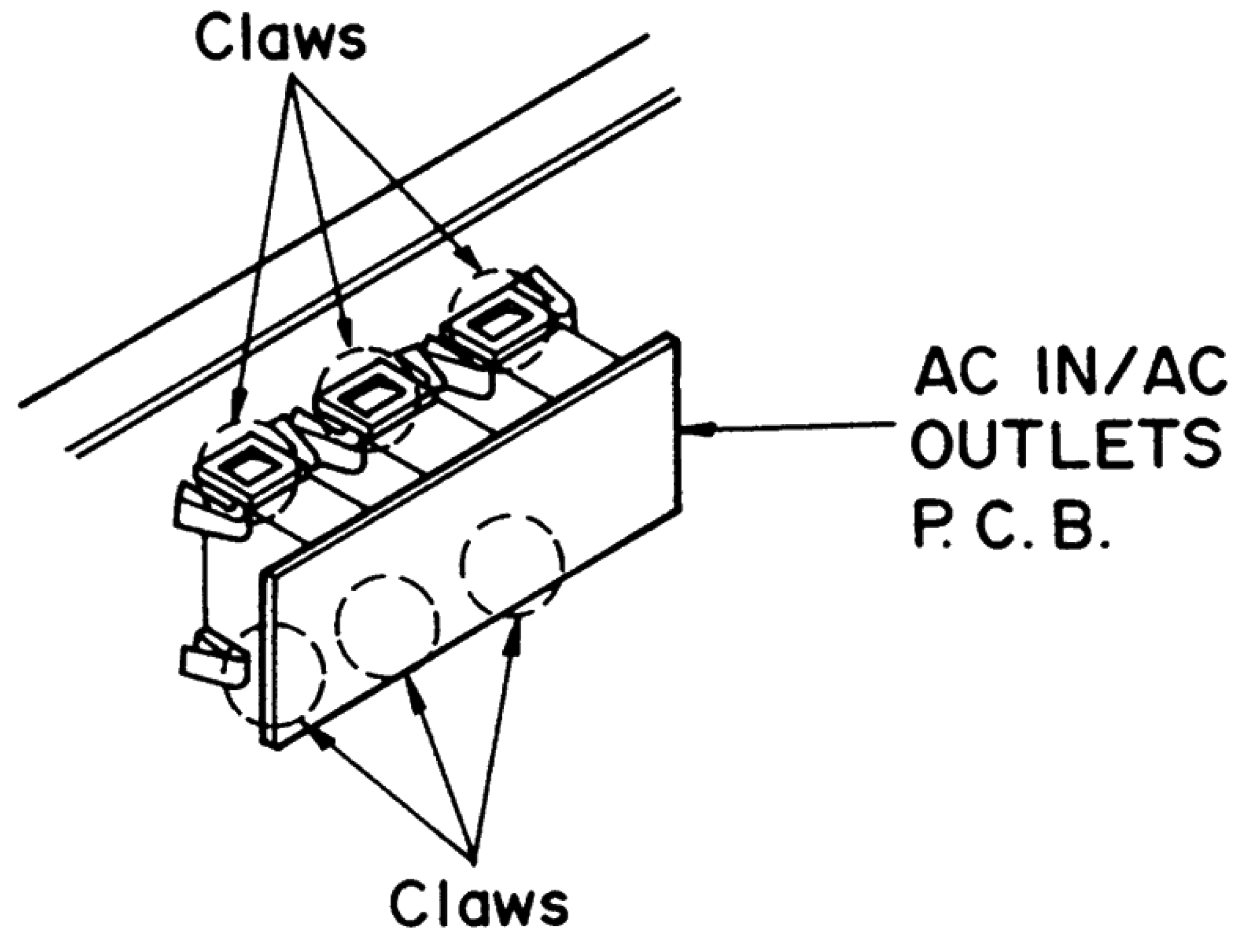
1. Remove the 1 flat cable (CN604).
2. Remove the 2 screws (❶, ❷).
3. Remove the power supply P.C.B. in the direction of the arrow.

Ref. No. 17	Removal of the power transformer
Procedure 1→2→16 →17	



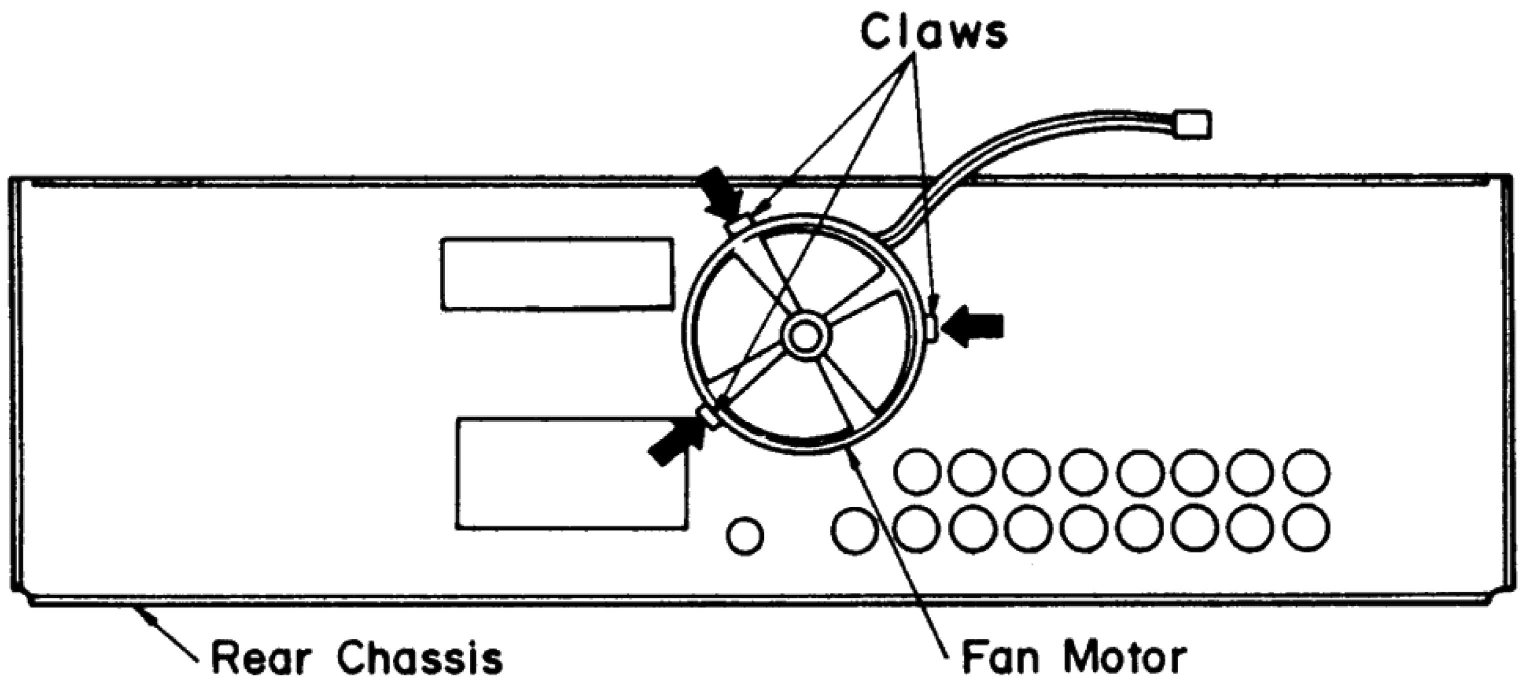
1. Remove the 2 flat cables (CN701, CN702).
2. Remove the 4 screws (❶~❹).

Ref. No. 18	Removal of the AC IN/ AC OUTLETS P.C.B.
Procedure 1→18	

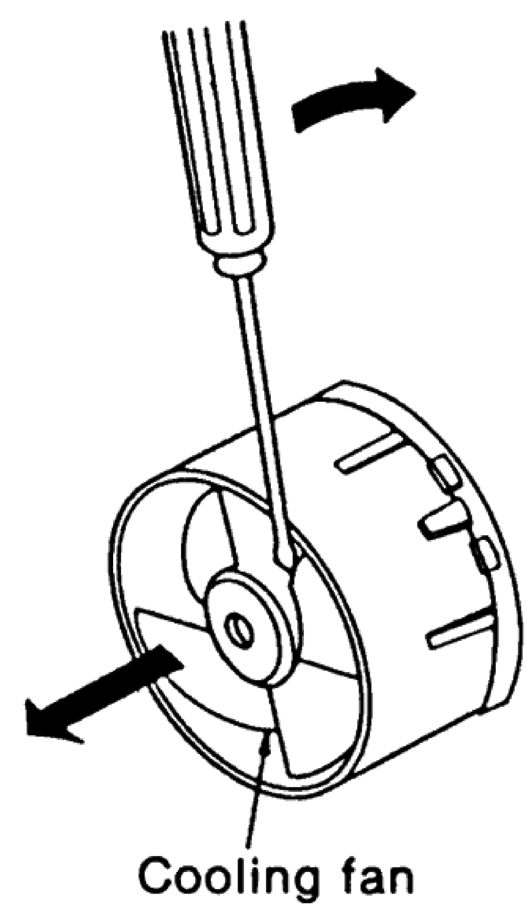


- Release the 6 claws.

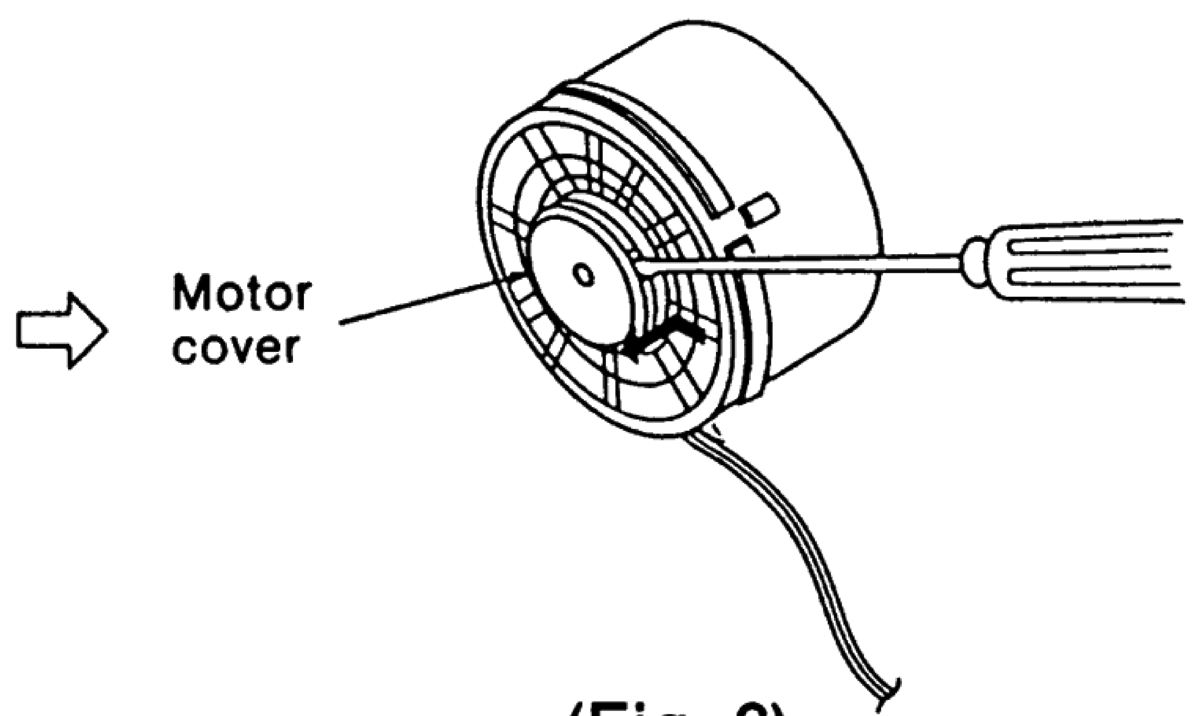
Ref. No. 19	Removal of the fan motor
Procedure 1→19	



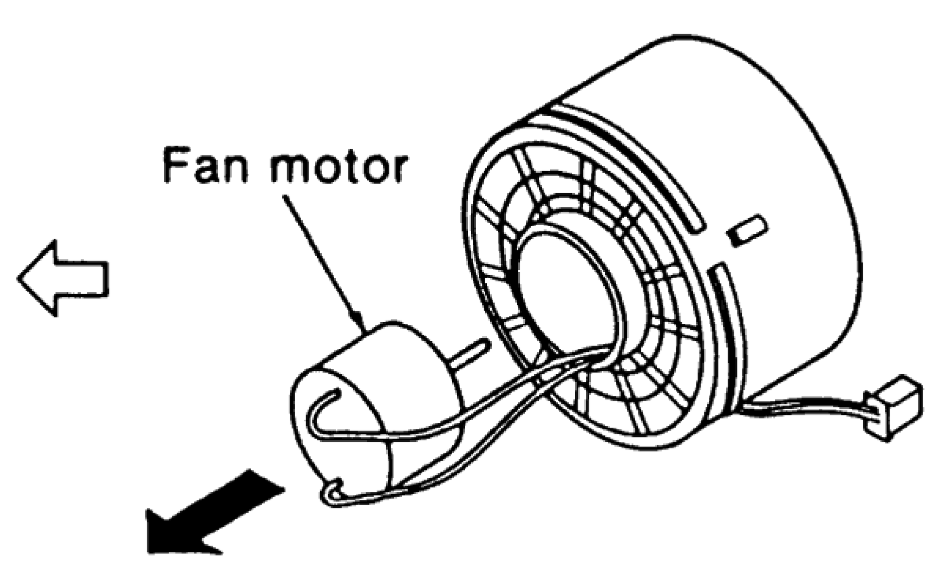
(Fig. 1)



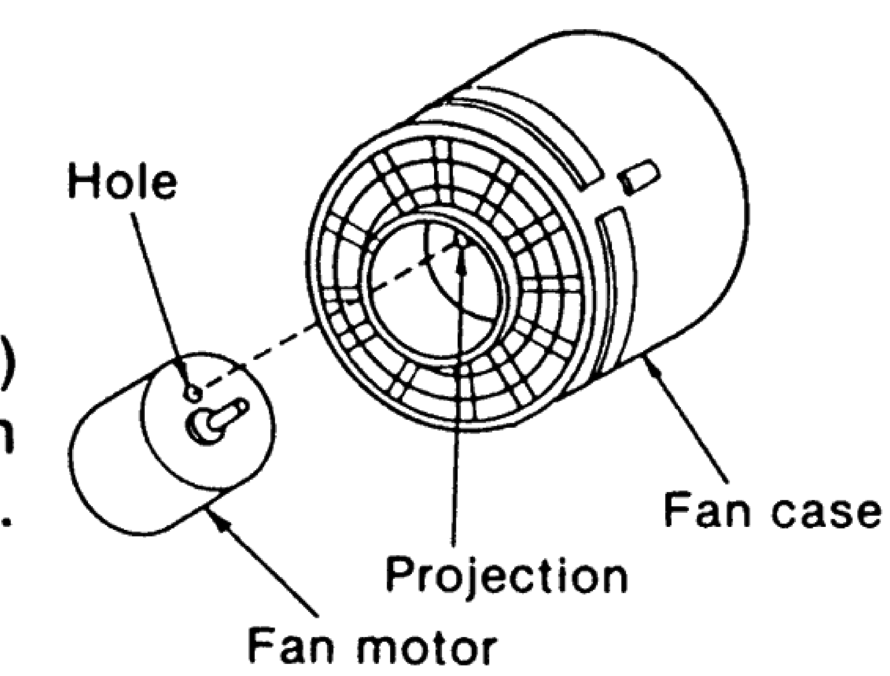
(Fig. 2)



(Fig. 3)



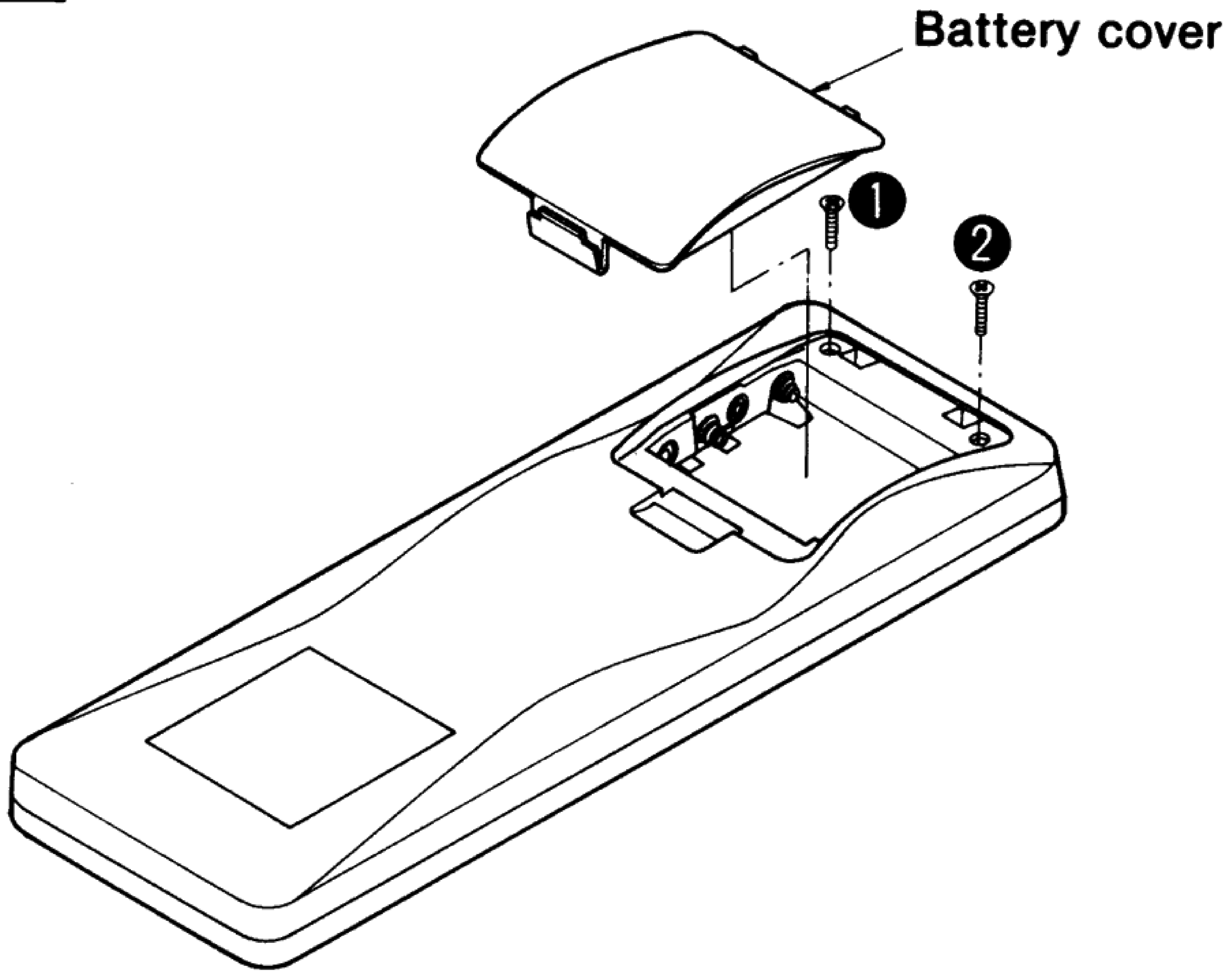
(Fig. 4)

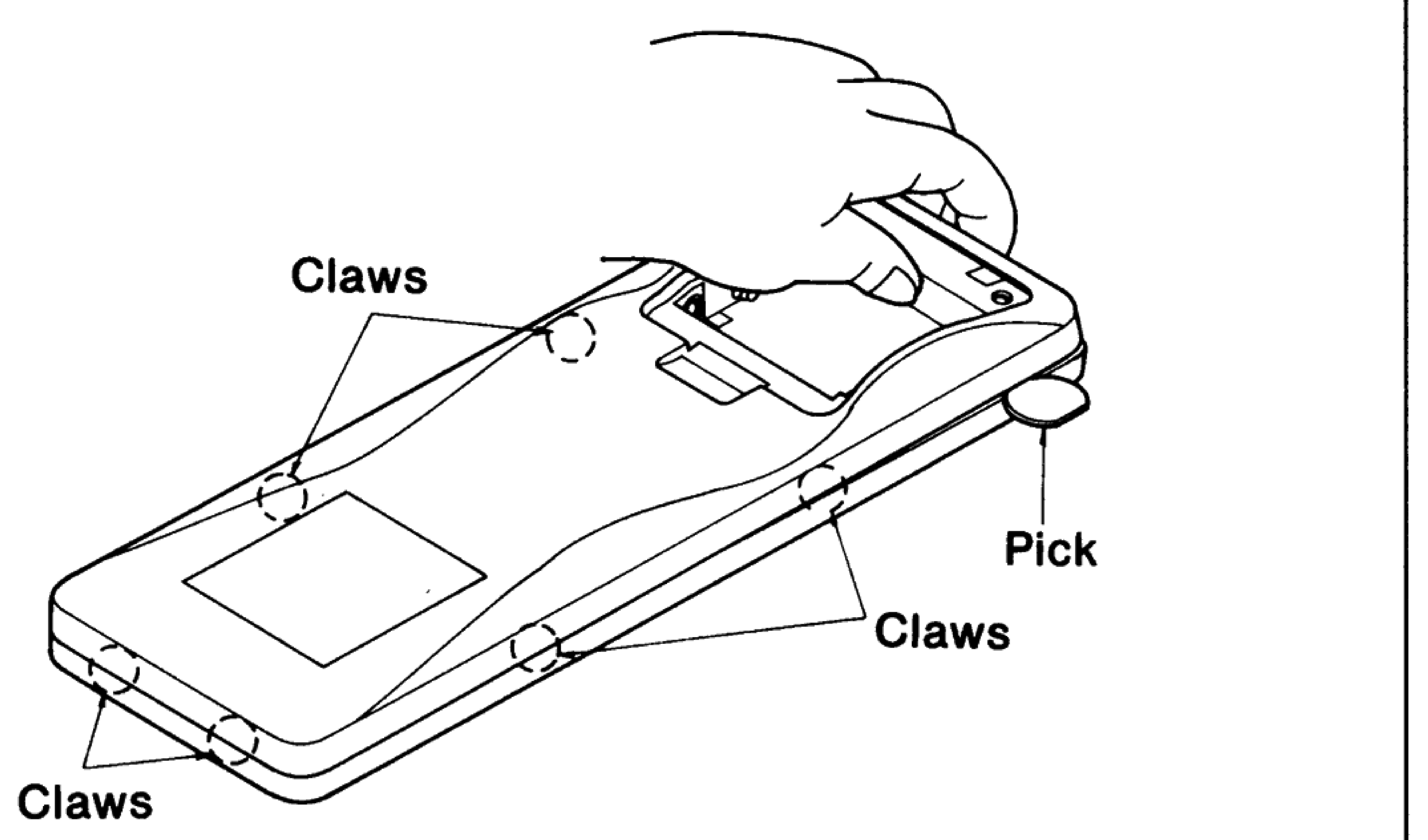


(Fig. 5)

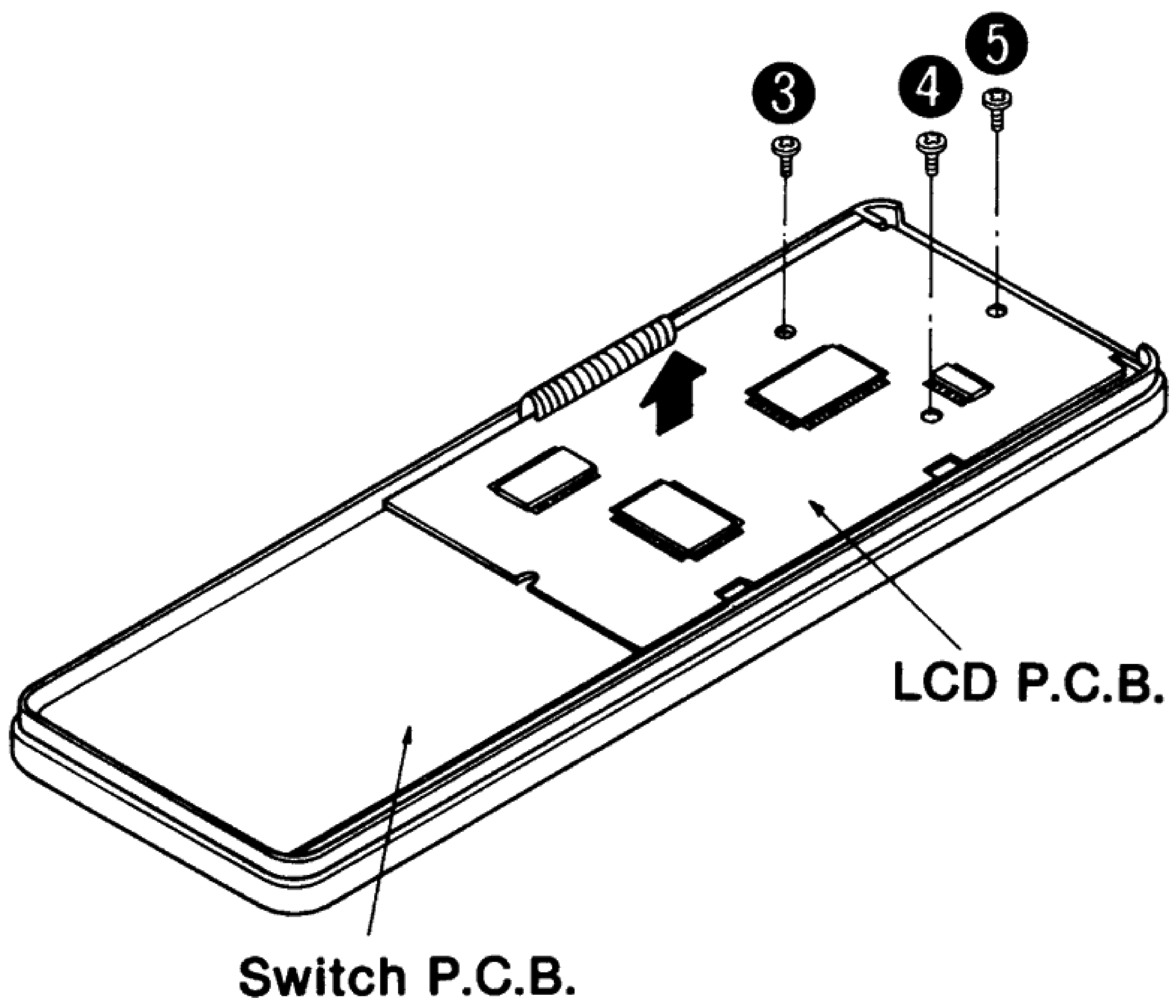
1. Release the 3 claws. (See Fig. 1)
2. Insert a screwdriver at the root of the cooling fan. Force it out of the motor shaft. (See Fig. 2)
3. Remove the motor cover by used ⊖ screwdriver. (See Fig. 3)
4. Remove the motor from the fan casing. (See Fig. 4)
5. When mounting the motor fan, align the fan casing's projection with the hole of the fan motor. (See Fig. 5)

Ref. No. 20	Removal of the remote control transmitter
Procedure 20	





1. Remove the battery cover.
2. Remove the 2 screws (❶, ❷).



3. Insert a pick between the upper and bottom cabinet, and release the 6 claws.
   Caution: Take care not to damage upper and bottom cabinet.
4. Remove the 3 screws (❸~❺).
5. Remove the LCD P.C.B. and switch P.C.B. in the direction of the arrow.

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 10Ω, 5W resistor to ground.

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

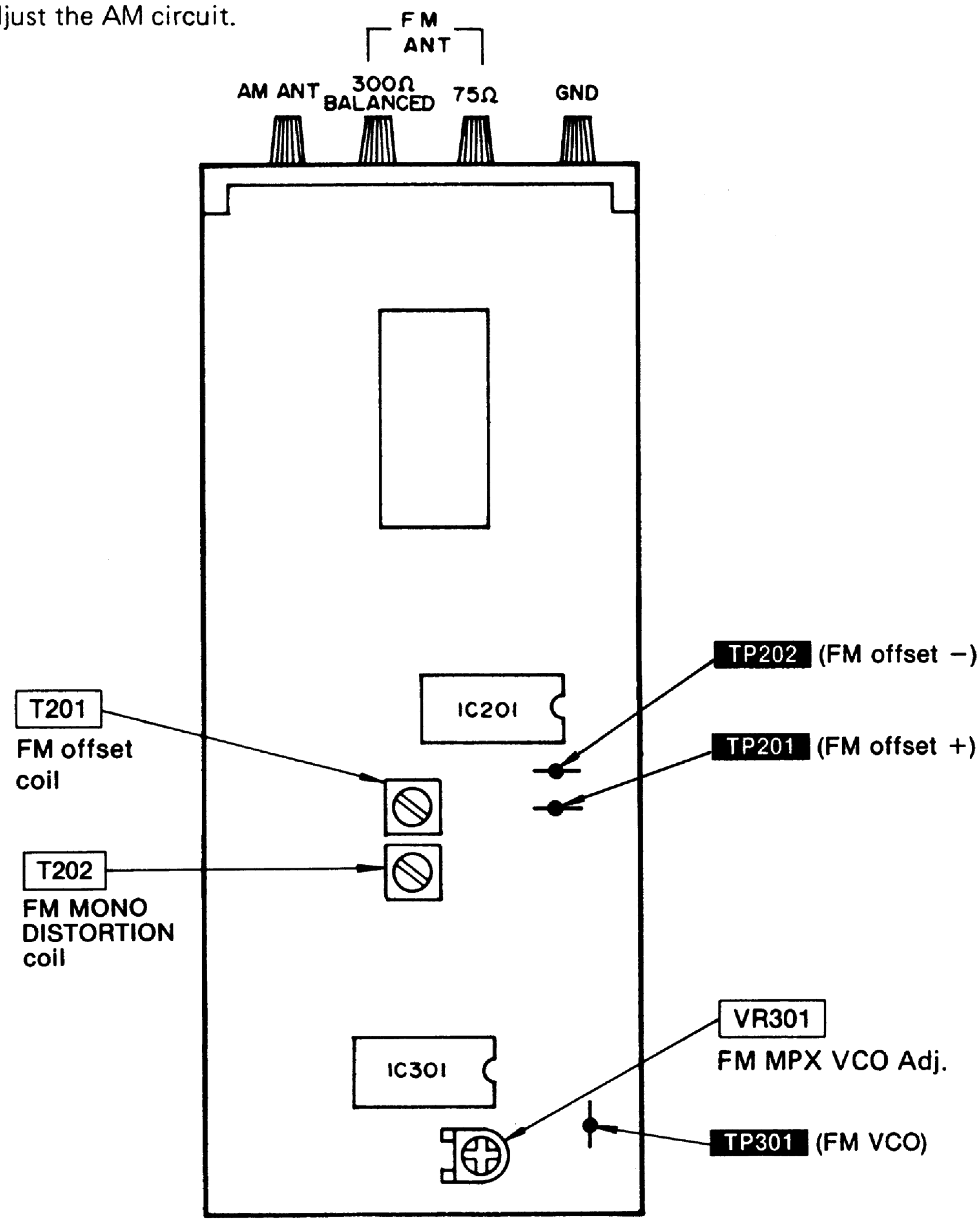
After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

Current consumption at 120V, 60Hz in NO SIGNAL mode should be 630~1200mA.

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

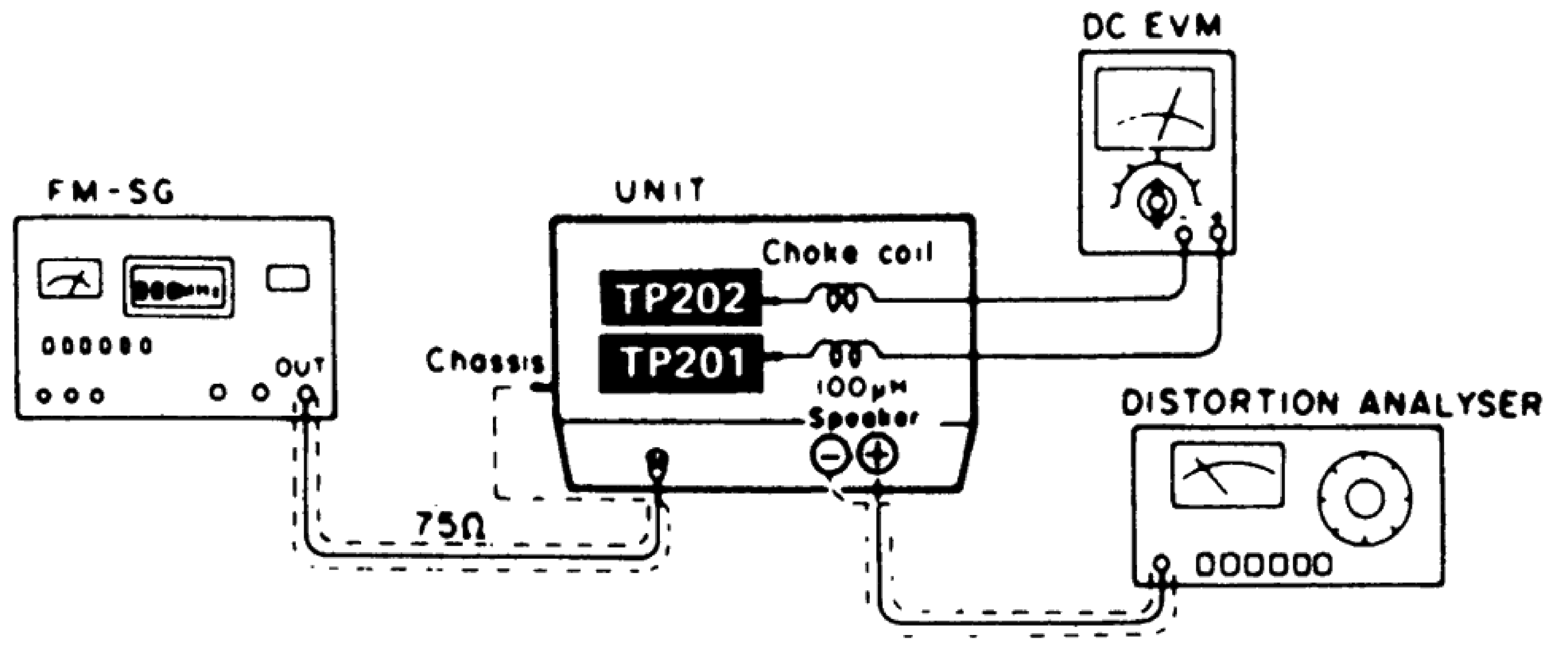
- FM signal generator (FM-SG).
- Distortion analyser
- Oscilloscope
- DC electronic voltmeter (EVM)
- Frequency counter
- Choke coil (100μH)
- Resistor (100kΩ)

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 **100.10MHz.**
4. Adjust **T201** core so that voltage measured in signal mode is **0mV** (0±20mV) 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.

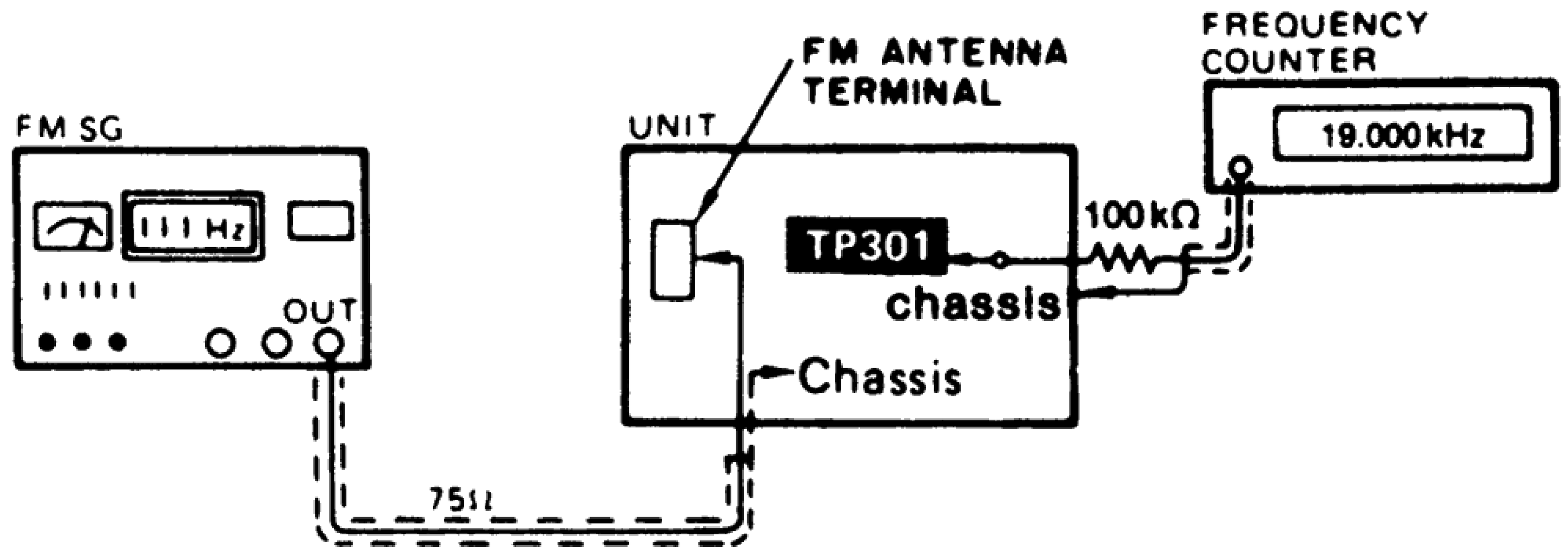
FM SIGNAL GENERATOR CONDITION
Modulation.........................100%
Modulation frequency.......1kHz (MONO)
Output level.......................66dB



FM MPX VCO ADJUSTMENT

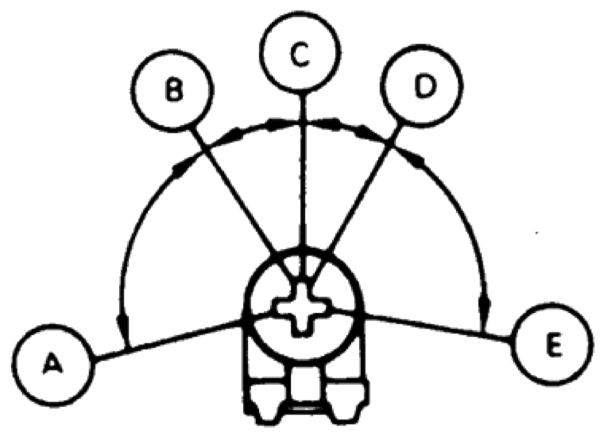
1. Test equipment connection is shown in figure.
2. Set the unit to "**FM auto**" position.
3. Place the radio frequency display and signal generator setting to **100.10MHz.**
4. Adjust **VR301** for **19.00±0.03kHz** on frequency counter reading.

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.



VR301

Ⓐ – Ⓑ Ⓓ – Ⓔ : Stereo OFF position
Ⓑ – Ⓓ : Stereo ON position (indicator lighting)
Ⓒ : Adjust point of pilot circuit

■TERMINAL FUNCTION OF IC'S

• IC351 (M37422M6201F): Microcomputer

Pin No.	Mark	I/O Division	Function
1	Vss	—	GND terminal
2 3 4	1B 2A 2B	I	The high frequency (treble) and low frequency (bass) control terminal of the parametric EQ system
5 6	3A 3B	I	The center frequency control terminal of the parametric EQ system
7 8	4A 4B	I	The level control terminal of the parametric EQ system
9	DT1	O	Serial data signal
10	NC	—	(Connected to power supply)
11	INH	O	Inhibit signal of the IC "BCD/DECIMAL DECORDER"
12 ~ 14	STA ~ STC	O	Strobe signal of the IC for "BCD/DECIMAL DECORDER" and "FREQUENCY SELECTOR"
15	BPF/FLAT	I	Spectrum analyzer control signal
16	ST1	I	Strobe signal of the IC for "ATTENUATOR/VOLUME CONTROL"
17	DIG A	O	Digit signal of FL display and key scan signal
18	DIG B		
19	HOLD	I	Power failure detection terminal
20	REMOTE	I	Remote control signal
21	CNVss	—	GND terminal
22	RESET	I	Reset signal
23	NC	—	Not connected
24	X IN	I	Crystal oscillator terminal
25	X OUT	O	
26	NC	—	Not connected
27	XC IN	—	Not used, connected to GND

Pin No.	Mark	I/O Division	Function
28	XC OUT	—	Not used, open
29	Vss	—	GND terminal
30	φ	—	Not connected
31 ~ 34	K3 ~ K0	I	Key return signal
35	Vp	I	Power supply terminal
36	MT	O	Muting control signal
37	DTO/SUR.	O	Clock signal of the IC for "ATTENUATOR/VOLUME CONTROL"
38	DIG D	O	Digit signal of FL display and key scan signal
39	DIG C		
40 ~ 45	S22 ~ S17	O	Segment signal terminal of FL display
46	NC	—	Not connected
47 ~ 62	S16 ~ S1	O	Segment signal terminal of FL display
63 64	VCC	I	Power supply terminal
65	Vss	—	GND terminal
66	EQ SW	O	EQ selector control signal
67	EQ 10	O	EQ selector control signal
68	FR Q1	O	Frequency control signal
69	FR Q2	O	Frequency control signal (Not used, open)
70	FR Q3	O	Frequency control signal (Not used, open)
71	1A	I	The low frequency (bass) control terminal of the parametric EQ system
72	NC	—	Not connected

• IC901 (LC6554H4399): Microcomputer

Pin No.	Mark	I/O Division	Function
1	S13	O	Segment signal output
2 ∫ 5	PA0 ∫ PA3	I	Key return signal input
6 ∫ 8	PB0 ∫ PB2	I	Key return signal input
9	STAND BY	I	Power supply terminal
10	OFF	I	Power ON/OFF det. terminal
11	STEREO	I	Stereo signal det. terminal
12	SD	I	Received signal det. terminal
13	DP	I/O	Cassette deck control terminal
14	RELAY	O	Relay control output
15	DECK	I	Cassette deck control terminal (Not used, connected to GND)
16	OPT1 (IN)	—	Not used, connected to GND
17	OPT1 (OUT)		
18	MONO	O	FM AUTO/MONO select signal output
19	RFM	O	Muting control output for tuner circuit
20	AT	O	Muting control output for amplifier circuit
21	AFM	O	Muting control output for amplifier circuit
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

Pin No.	Mark	I/O Division	Function
33	ST	O	Level shift control output
34	L	—	Not used, connected to GND
35	V		
36	TUNING 0	O	LED drive control signal for rotary tuning
37	TUNING 1		
38	LOUDNESS	O	Loudness ON/OFF signal output
39	R	O	Volume motor drive output
40	F		
41	A	O	Rotary tuning control signal output
42	B		
43	Vp	I	Power supply terminal (negative voltage)
44 ∫ 55	S1 ∫ S12	O	Segment signal output
56	VDD	I	Power supply terminal (positive voltage)
57 ∫ 64	D1 ∫ D8	O	Digit signal and key scan signal output

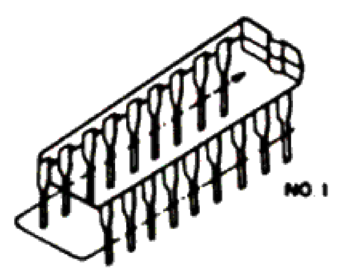
■ BLOCK DIAGRAM

Note:

- FM Signal
- FM OSC
- AM Signal
- AM OSC
- Phono signal
- Spectrum analyzer signal
- Dolby surround singnal
- P. Equalizer signal

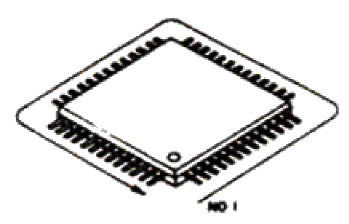
* ( ) indicates Pin No. of right channel.

■ TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

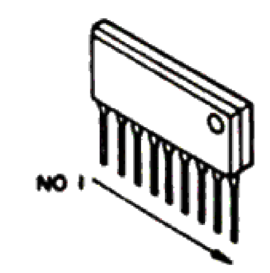


M5238P AN6558F AN6552F M5218P	8 Pin
AN6554F	14 Pin
LM7001 AN7470 TC74HC42AP TC4051BP XRU4028B XR-1091DCP SVITA7629P TC9214P	16 Pin
AN7273A	18 Pin
TC9212P	20 Pin
M50198P	24 Pin
TC9162N TC9163N LC7522	28 Pin

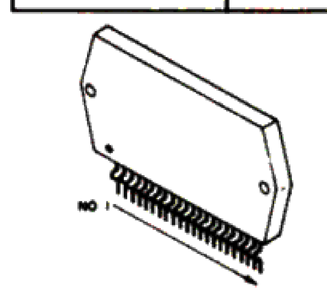
LC6554H4399	64 Pin
M37422M6201F	72 Pin

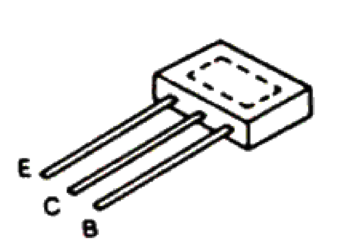


BA6218	9 Pin
M5241L	10 Pin



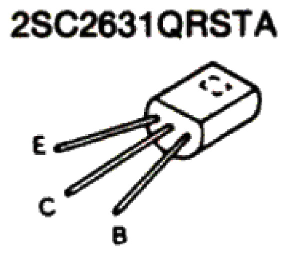
SVI3100B	14 Pin
SVI3206B	18 Pin



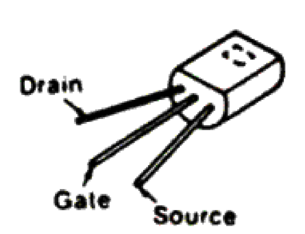


2SA933SQRSTA
2SC2785FETA
2SC2787LTA
2SD1450QRSTA
2SC3327ABTP
2SC3311AQSTA
2SA1309AQSTA

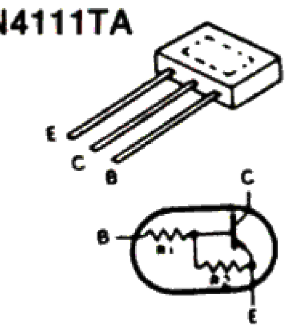
2SA992EFTA
2SC1740SQSTA
2SC3940AQSTA
2SC2631QRSTA



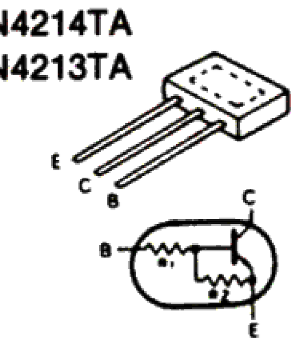
2SJ40CDTA



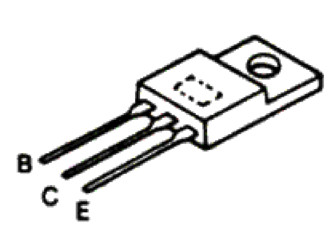
UN4113TA
UN4111TA



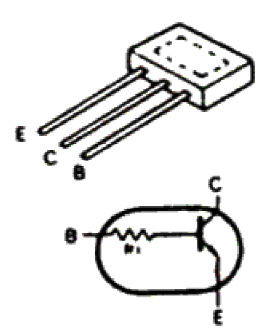
UN4211TA
UN4214TA
UN4213TA



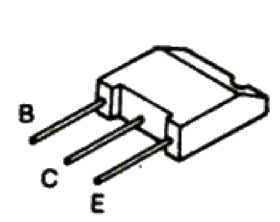
2SB1187DEF
2SD1761DEF

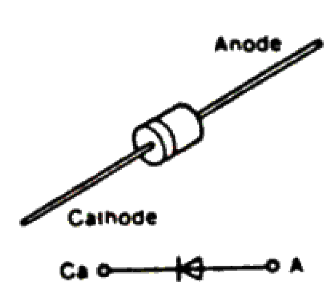


UN4215TA



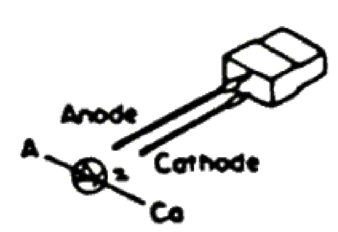
2SB1240PRTV6

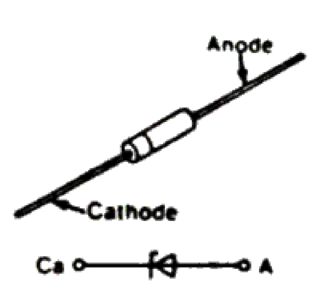




MA165TA
MA700ATA
MA29WATA
SVDS5688GT3
1SS291TA
P300DLF
GP15GLF

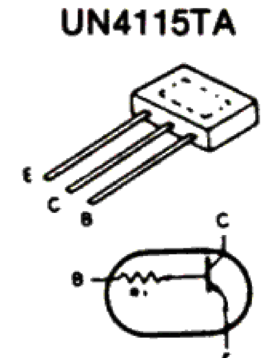
LN846RP-LS





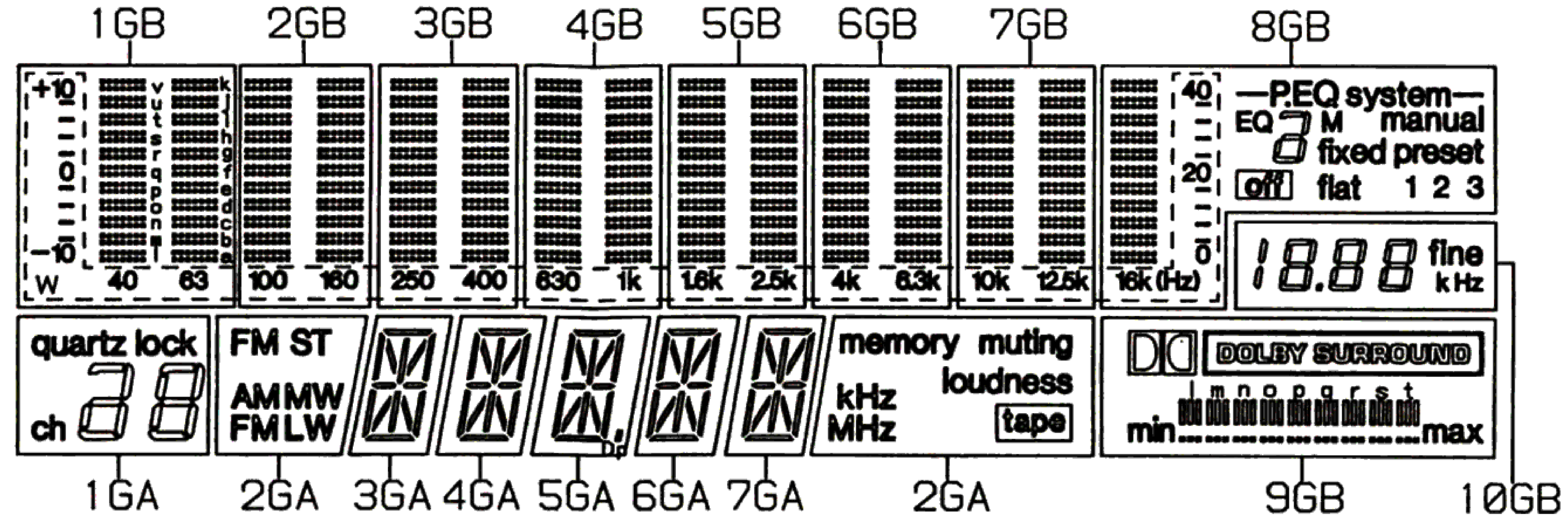
MA4062MTA MA4051MTA
MA4068MTA MA4056MTA
MA4110MTA MA4030MTA
MA4160LTA MA4075HTA
MA4120MTA MA4043MTA
MA4330MTA MA4082MTA

UN4115TA



■ INTERNAL CONNECTION OF FL

• **Grid connection diagram**



• **Anode connection table (A)**

	1GB	2GB	3GB	4GB	5GB	6GB	7GB	8GB	9GB	10GB
aB								3	DOLBY SURROUND	K,DP
bB								2	–	fine
cB								1	–	c
dB								manual	–	d
eB								flat	–	e
fB								fixed	–	f
gB								M	–	g
hB								off	–	h
iB								i	–	i
jB								j	–	j
kB								k	–	k
ℓB										ℓ
mB										m
nB										n
oB										o
pB										p
qB										q
rB										r
sB										s
tB										t
uB									–	u
vB									min……max	/
wB	+10 0 -10 40,63	100,160	250,400	600,1K	1.6K,2.5K	4K,6.3K	10K,12.5K	40 20 0 – P,EQ system – preset 16K(Hz)	–	Hz
xB	–	–	–	–	–	–	–	x	–	–

• **Anode connection table (B)**

	1GA	2GA	3GA	4GA	5GA	6GA	7GA
aA	a	KHz	a	a	a	a	a
bA	b	LW	b	b	b	b	b
cA	c	–	c	c	c	c	c
dA	d	muting	d	d	d	d	d
eA	e	tape	e	e	e	e	e
fA	f	FM	f	f	f	f	f
gA	g	–	g	g	g	g	g
hA	h	AM	h	h	h	h	h
iA	i	MW	i	i	i	i	i
jA	j	MHz	j	j	j	j	j
kA	quartz lock	loudness	k	k	k	k	k
ℓA	–	memory	ℓ	ℓ	ℓ	ℓ	ℓ
mA	ch	FM ST	–	–	DP	–	–

• **Pin connection**

62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47
F2	F2	NP	NP	kA	dA	ℓA	cA	eA	gA	bA	fA	iA	hA	jA	aA

46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31
1GA	2GA	3GA	4GA	5GA	6GA	7GA	mA	1GB	2GB	3GB	4GB	5GB	6GB	7GB	8GB

30	29	28	27	26	25	24	23	22	21	20	19	18	17	16
9GB	10GB	xB	wB	vB	uB	tB	sB	rB	qB	pB	oB	nB	mB	ℓB

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
kB	jB	iB	hB	gB	fB	eB	dB	cB	bB	aB	NP	NP	F1	F1

■ SCHEMATIC DIAGRAM

(Parts list on pages 61~64, 66, 70~73.)

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

Note 1:

- **S351** : Slope changeover switch [slope (Q)].
- **S352~354** : Parametric EQ band select switches. [S352: EQ1, S353: EQ2, S354: EQ3]
- **S355** : Fixed preset switch (fixed preset).
- **S356~358** : Equalization preset switches (manual preset). [S356: 1, S357: 2, S358: 3]
- **S359** : Parametric EQ system memory switch (P. EQ sys memory).
- **S360** : Display mode switch (display mode).
- **S361** : Parametric EQ system ON/OFF switch (parametric EQ system).
- **S362** : Fine mode select switch (fine off/on).
- **S363** : Dolby surround ON/OFF switch (Dolby Surround).
- **S364, 365** : Rear speaker volume control switches (rear level). [S364: down, S365: up]
- **S601** : Speaker selectors switches (speakers). [S601-1: A, S601-2: B]
- **S701** : Power "standby ⏻ /on" switch (power).
- **S702** : Speaker impedance selector switch (SPEAKER IMPEDANCE).
- **S901~910** : Preset-tuning switches (24 channel random preset tuning). [S901: 1, S902: 2, S903: 3, S904: 4, S905: 5, S906: 6, S907: 7, S908: 8, S909: 9, S910: 0]
- **S911** : Memory scan switch (memory scan).
- **S912** : FM mode selector switch (FM mode).
- **S913, 914** : Band selector switches. [S913: FM, S914: AM]
- **S917** : Memory switch (memory).
- **S918** : Loudness switch (loudness).
- **S927~931** : Input selector switches. [S927: phono, S928: tuner, S929: CD, S930: VCR2, S931: VCR1]
- **S932** : Tape-monitor switch (tape monitor).
- **S933** : Tuning mode selector switch (tuning mode).

- Signal line
  - : FM OSC
  - : FM signal
  - : AM OSC
  - : AM signal
  - : Phono signal (Lch)
  - : AF signal (Lch)
  - : Spectrum analyzer signal
  - : Dolby surround signal (Lch)
  - : P. Equalizer signal (Lch)
  - : Positive voltage lines
  - : Negative voltage lines
- Important safety notice:
  Components identified by ⚠ 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 alminum 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.

Note2:

• 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)

SFE 10.7MHz

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.

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE 6A 125V AND 2.5A 125V FUSES.

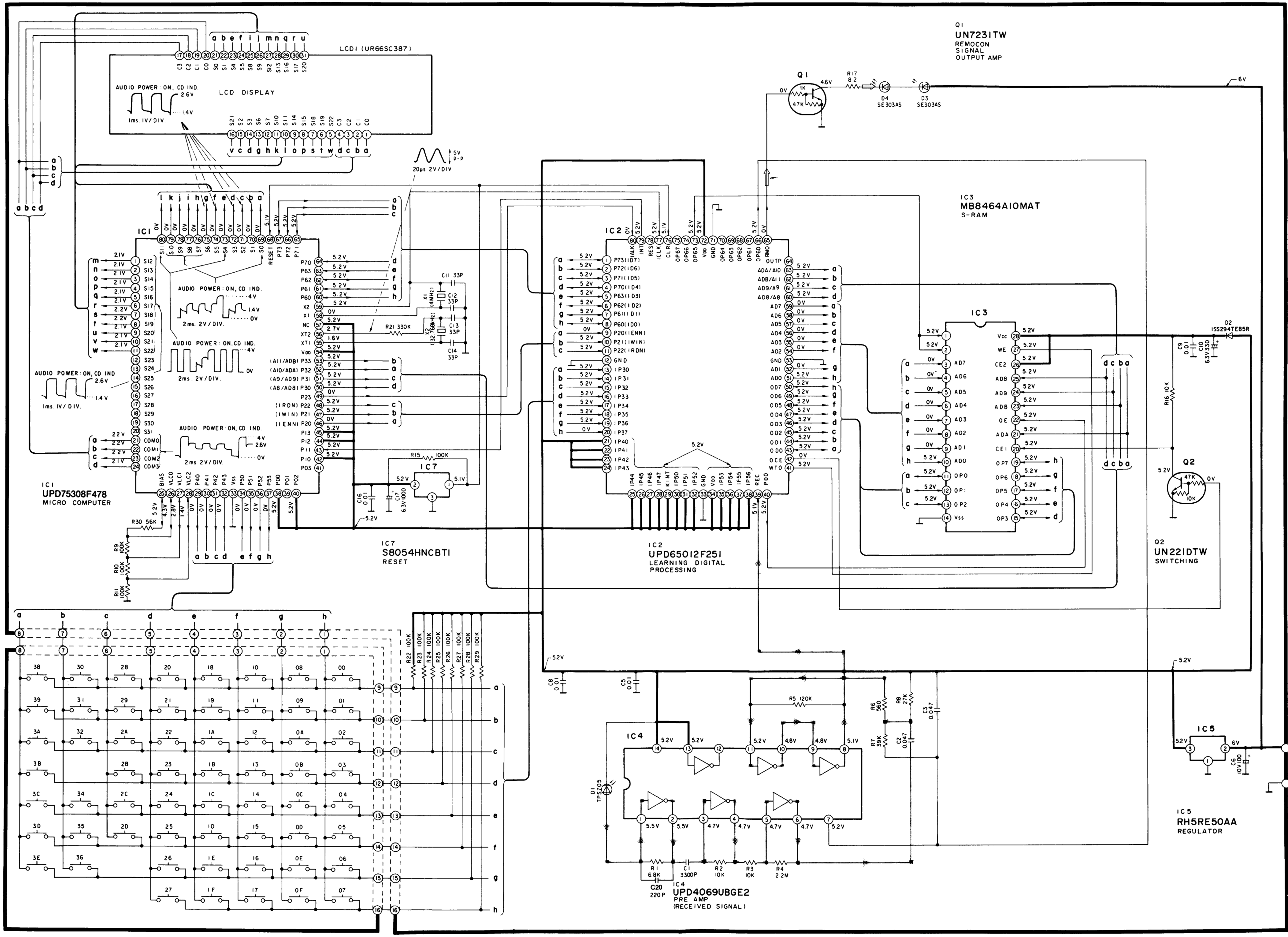
RISK OF FIRE-REPLACE FUSE AS MARKED.

FUSE CAUTION

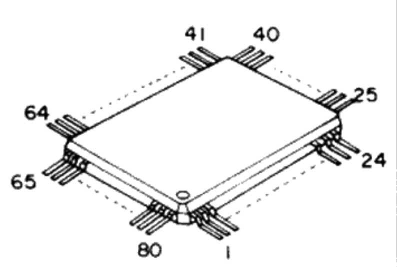
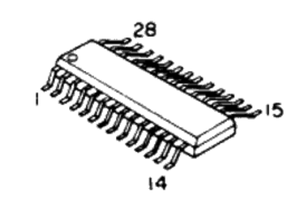
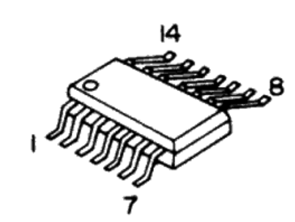
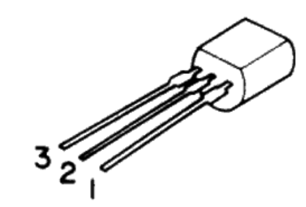
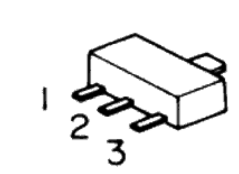
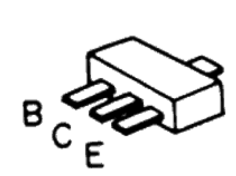
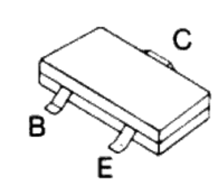
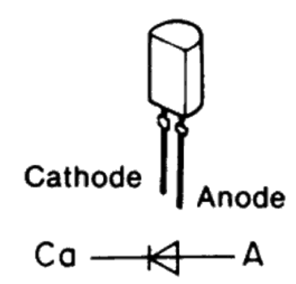
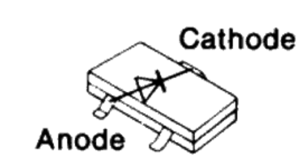
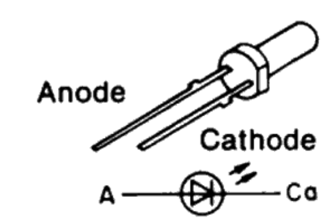
This symbol located near the fuse indicates that the fuse used is fast operating type. For continued protection against fire hazard, replace with same type fuse. For fuse rating, refer to the marking adjacent to the symbol.

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 qù le présent symbole est apposé.

• **Remote control transmitter**



- **Terminal guide of IC's, transistors and diodes (Remote control transmitter)**

UPD65012F251 UPD75308F478	MB8464A10MAT	UPD4069UBGE2	RH5RE50AA	S8054HNCBT1
				
UN7231TW	UN221DTW	TPS705	1SS294TE85R	SE303AS
				

Troubleshooting (Remote control transmitter)

Symptom	Possible cause
LCD remains off when the DISPLAY key is activated.	R9~R11 or R30 is opened.
	R22~R29 is opened.
	IC7's pin 1 or IC1's pin 68 is shorted to ground level.
	X1 or X2 is opened.
LCD contrast is not uniform.	R9~R11 or R30 has an internal short circuit.
	Short circuit exists across pins 59~80, 1~11, or IC1's pin 21~24.
Signal transmission fails.	D3 or D4 is opened.
	Q1 has an internal open or short circuit.
	R17 is opened.
Fails to enter Learning mode.	IC2's pin 39 has an internal open circuit.
	IC2's pin 67 or IC4's pin 7 has an internal open circuit or is pulled up to High level.
Learning error occurs (transmission code error).	Short circuit exists across SRAM's pins, or across IC2's pin 40~63, or IC1's pin 46~53, or 60~67.
Learned data evaporates immediately after the batteries are removed.	D2 has internal open or short circuit.
	C10 is opened.
Keys are inoperative.	R22~R29 is opened.

Initialization after Replacement of LCD, CPU, or SRAM (Remote control transmitter)

While simultaneously pressing and holding the PLAY and SURROUND MONO keys, load batteries into the battery compartment.

↓

"S-RAM" appears on the LCD.

↓

Release the keys.

↓

"OK" will appear approx. 6 seconds later.
(If "ERROR" appeared, an open or short circuit exists on or around the SRAM chip.)

↓

Press any key.

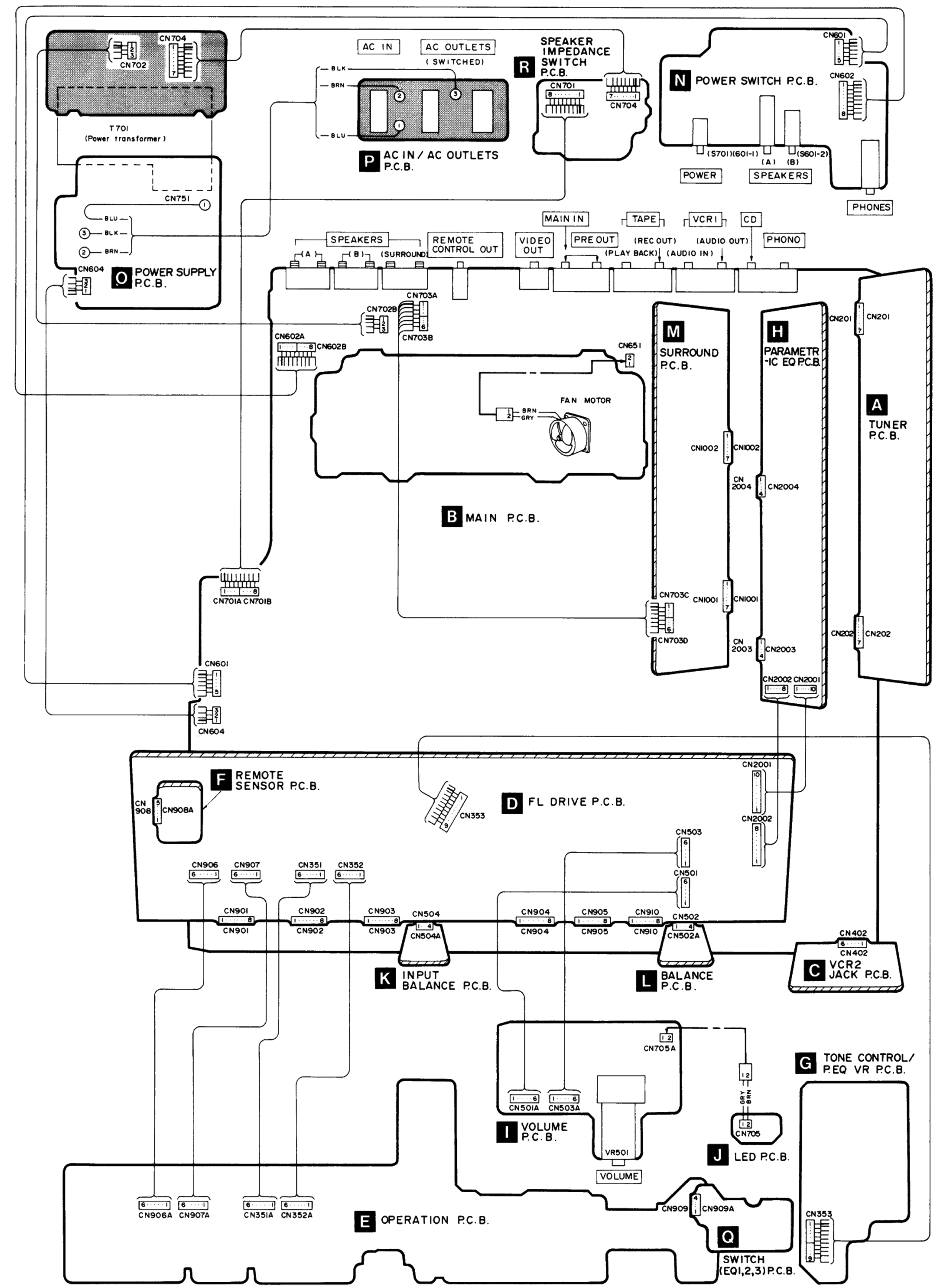
↓

LCD goes off.

↓

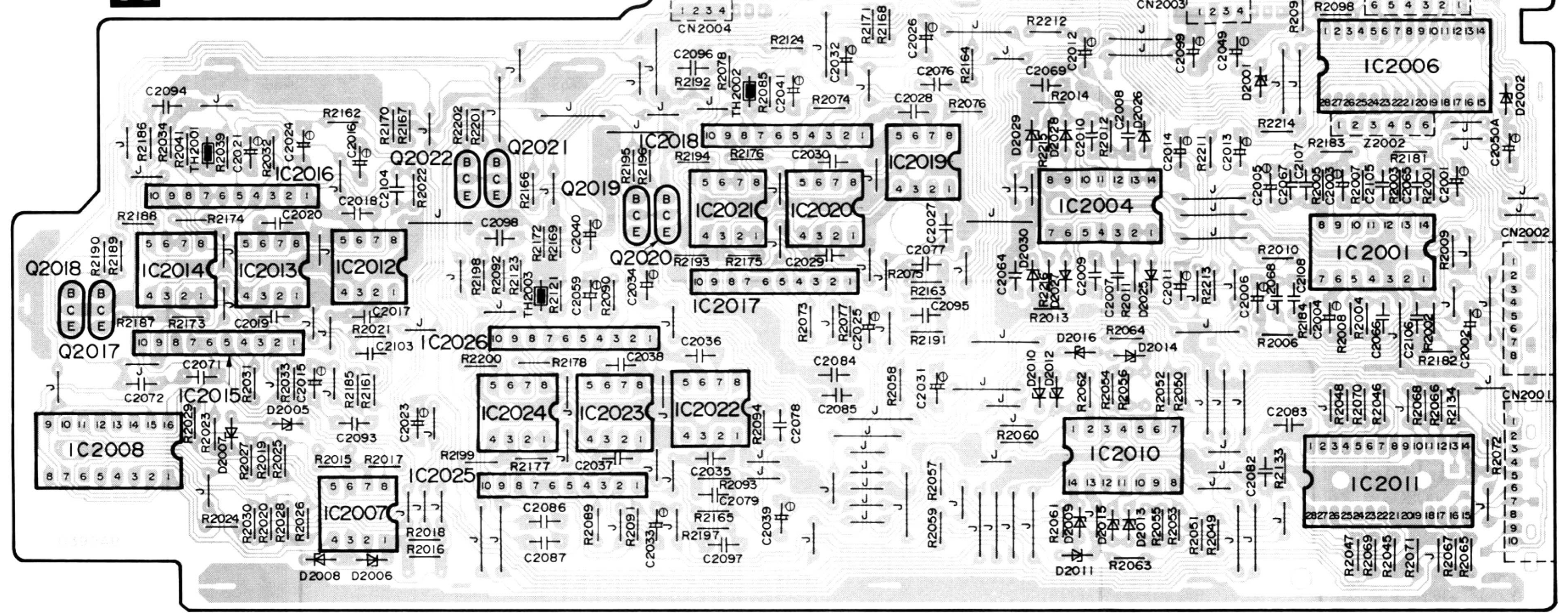
Device enters normal mode approx. 2 seconds later.

WIRING CONNECTION DIAGRAM

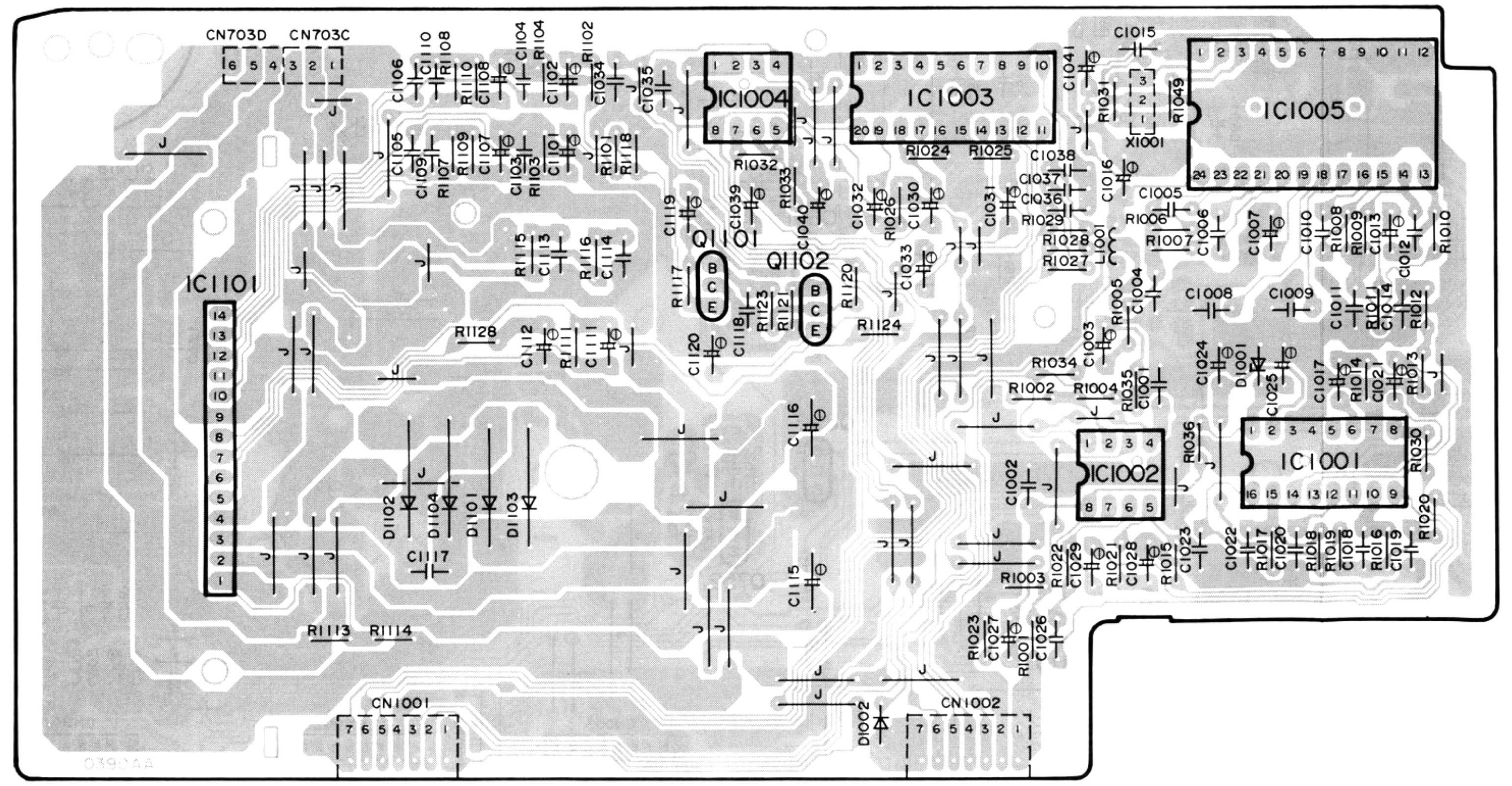


■ PRINTED CIRCUIT BOARDS

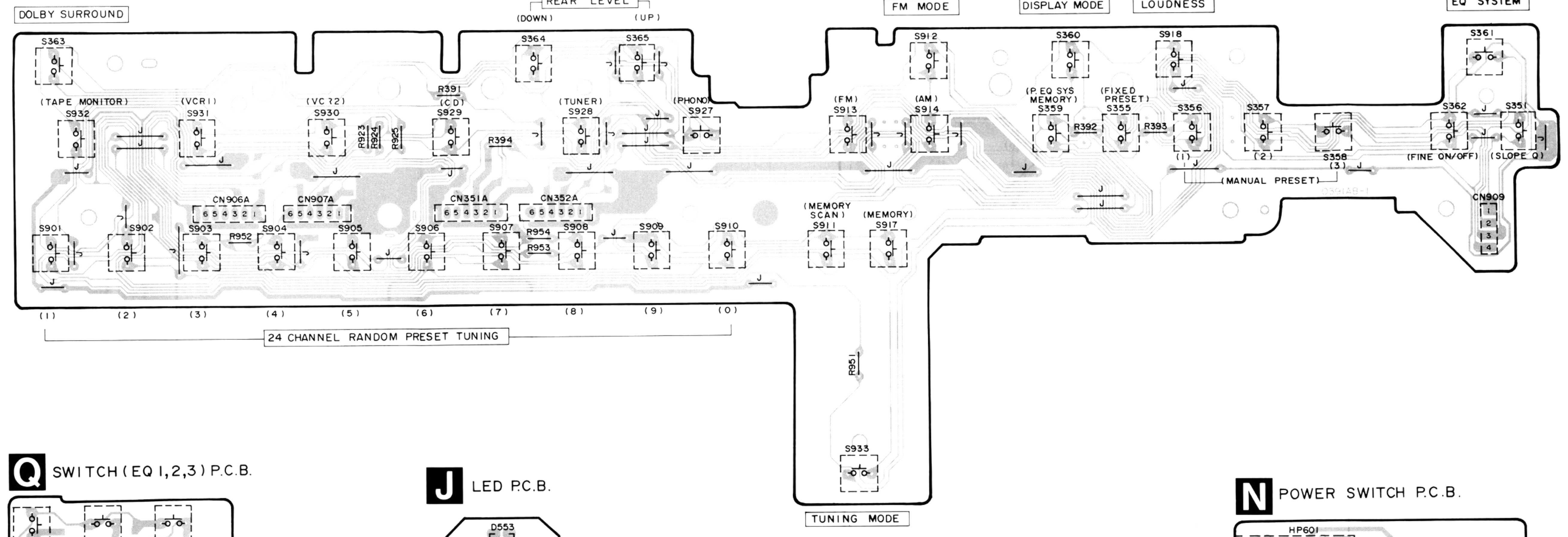
H PARAMETRIC EQ P.C.B.



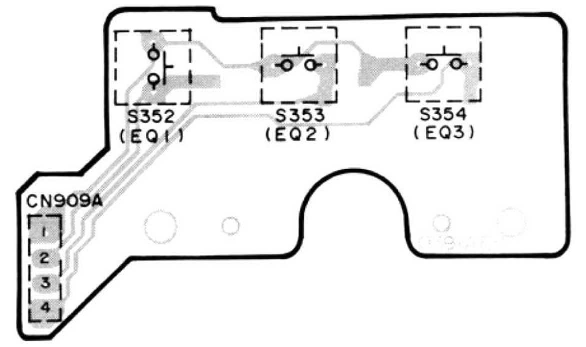
M SURROUND P.C.B.



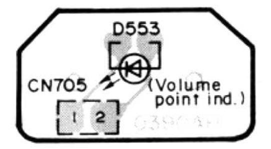
E OPERATION P.C.B.



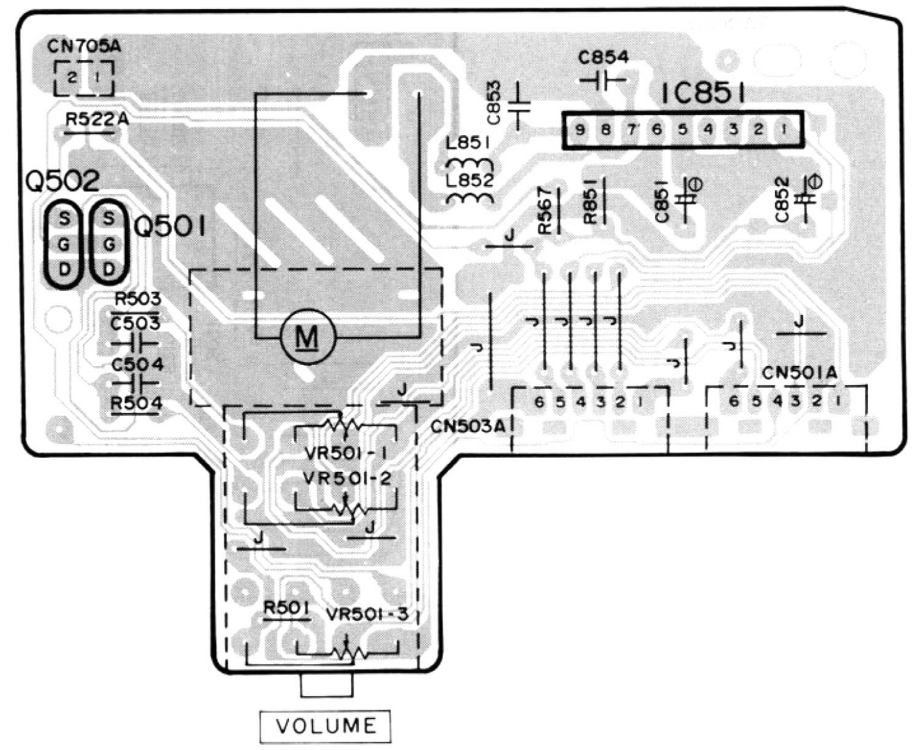
Q SWITCH (EQ 1,2,3) P.C.B.



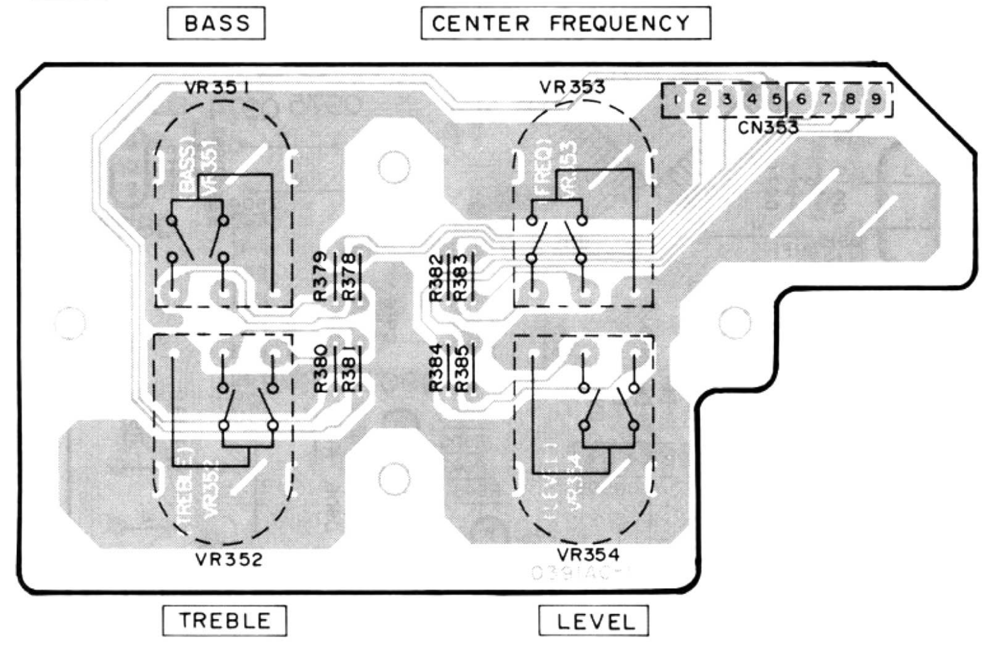
J LED P.C.B.



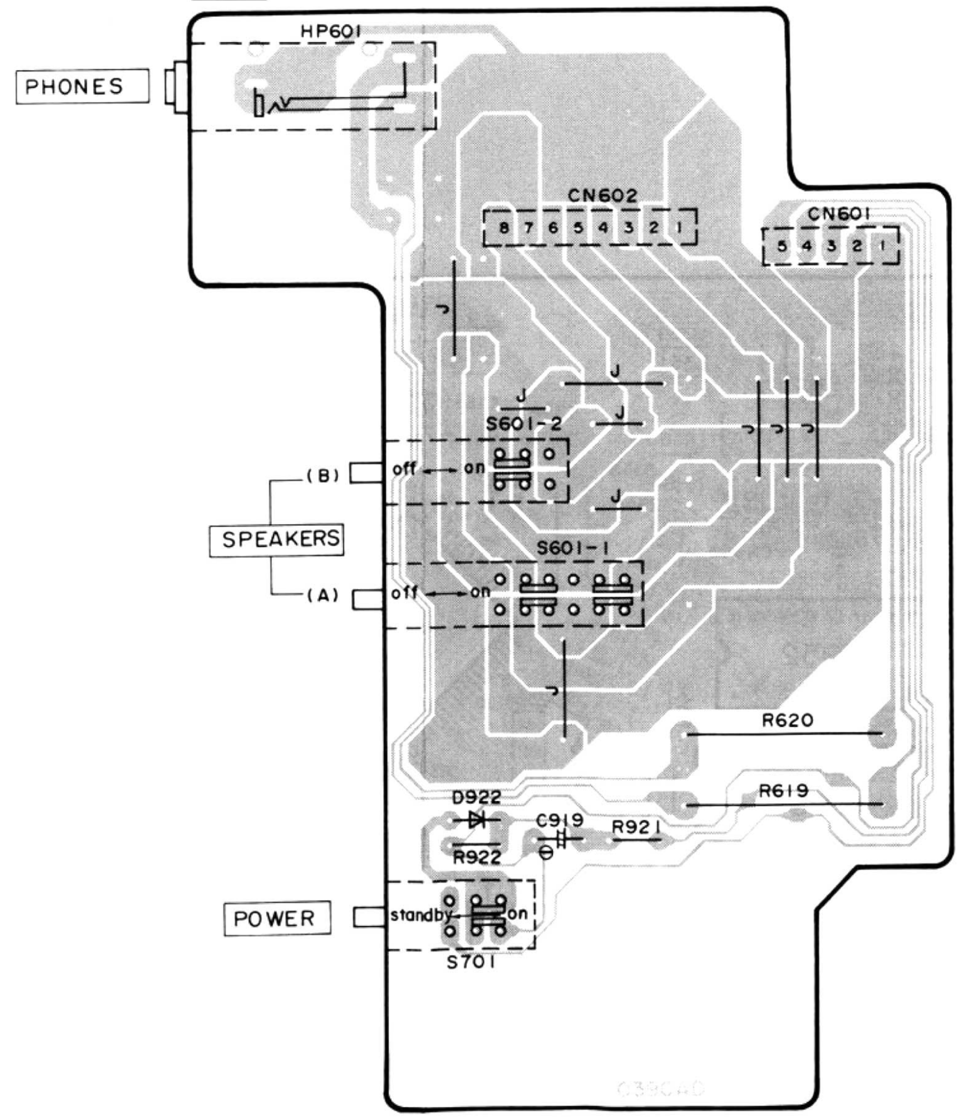
I VOLUME P.C.B.



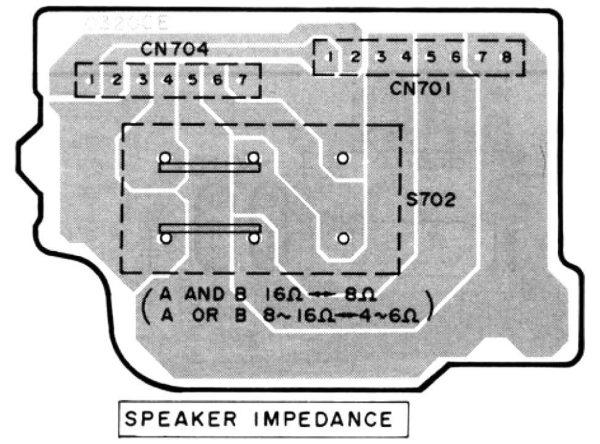
G TONE CONTROL/P.EQ VR P.C.B.

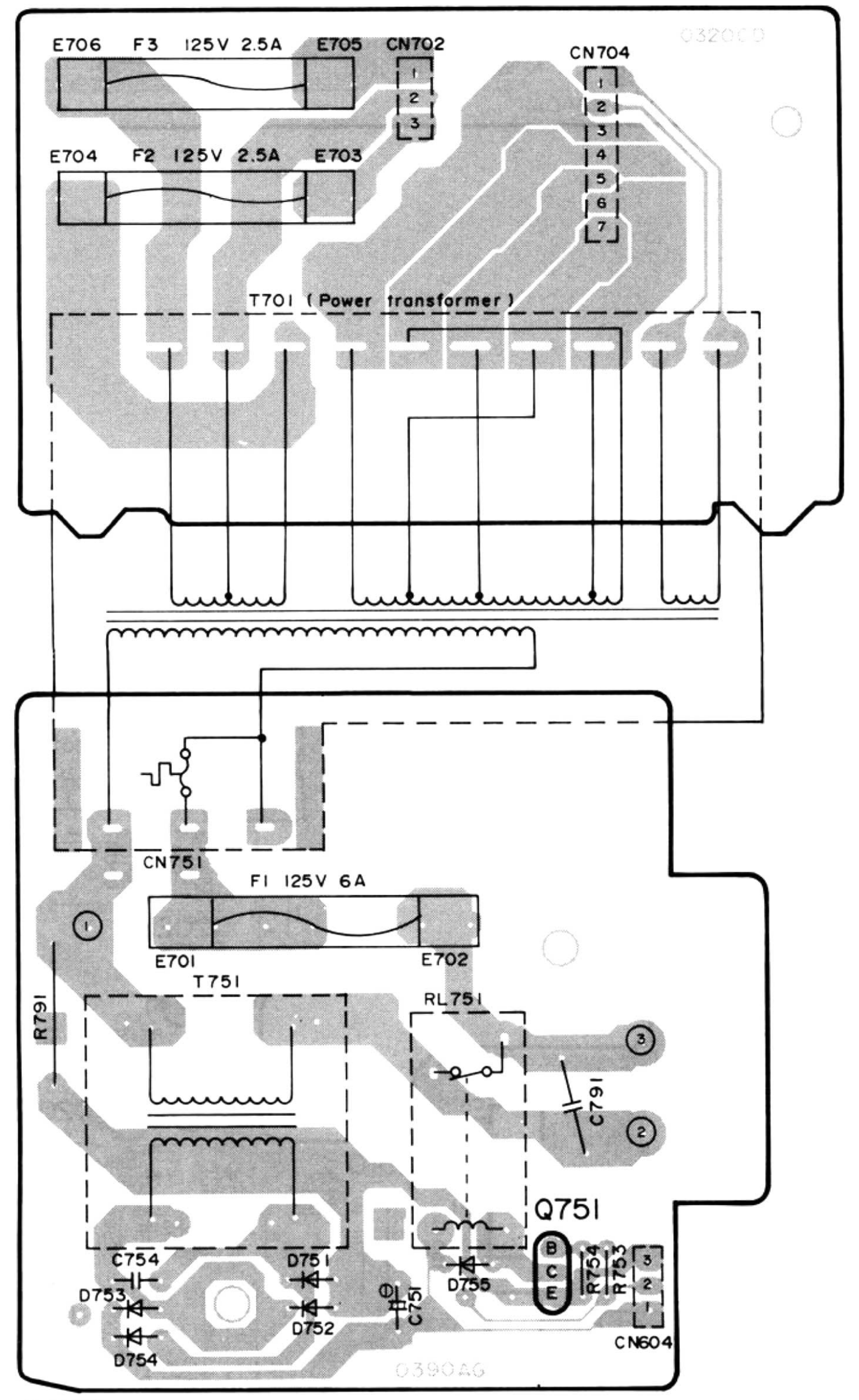


N POWER SWITCH P.C.B.



R SPEAKER IMPEDANCE SWITCH P.C.B.





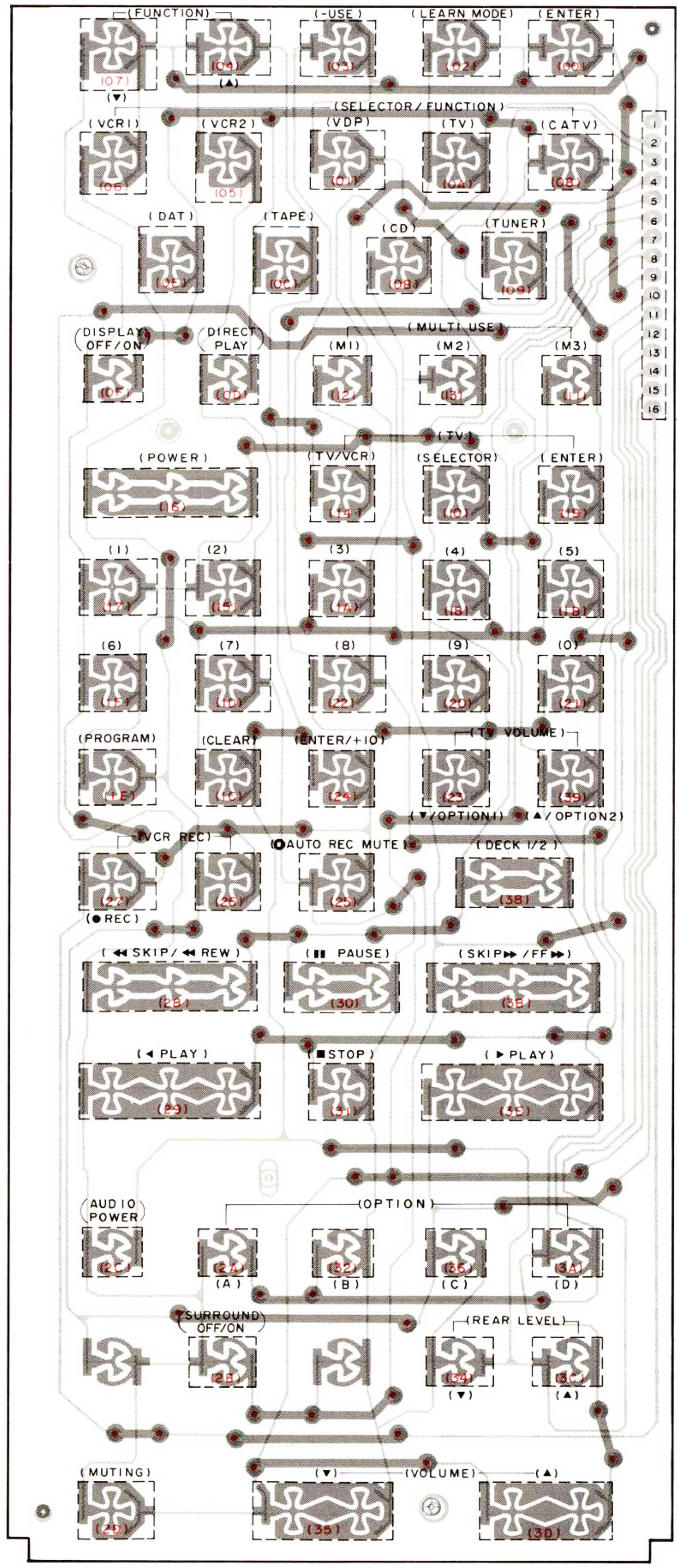
O POWER SUPPLY P.C.B.

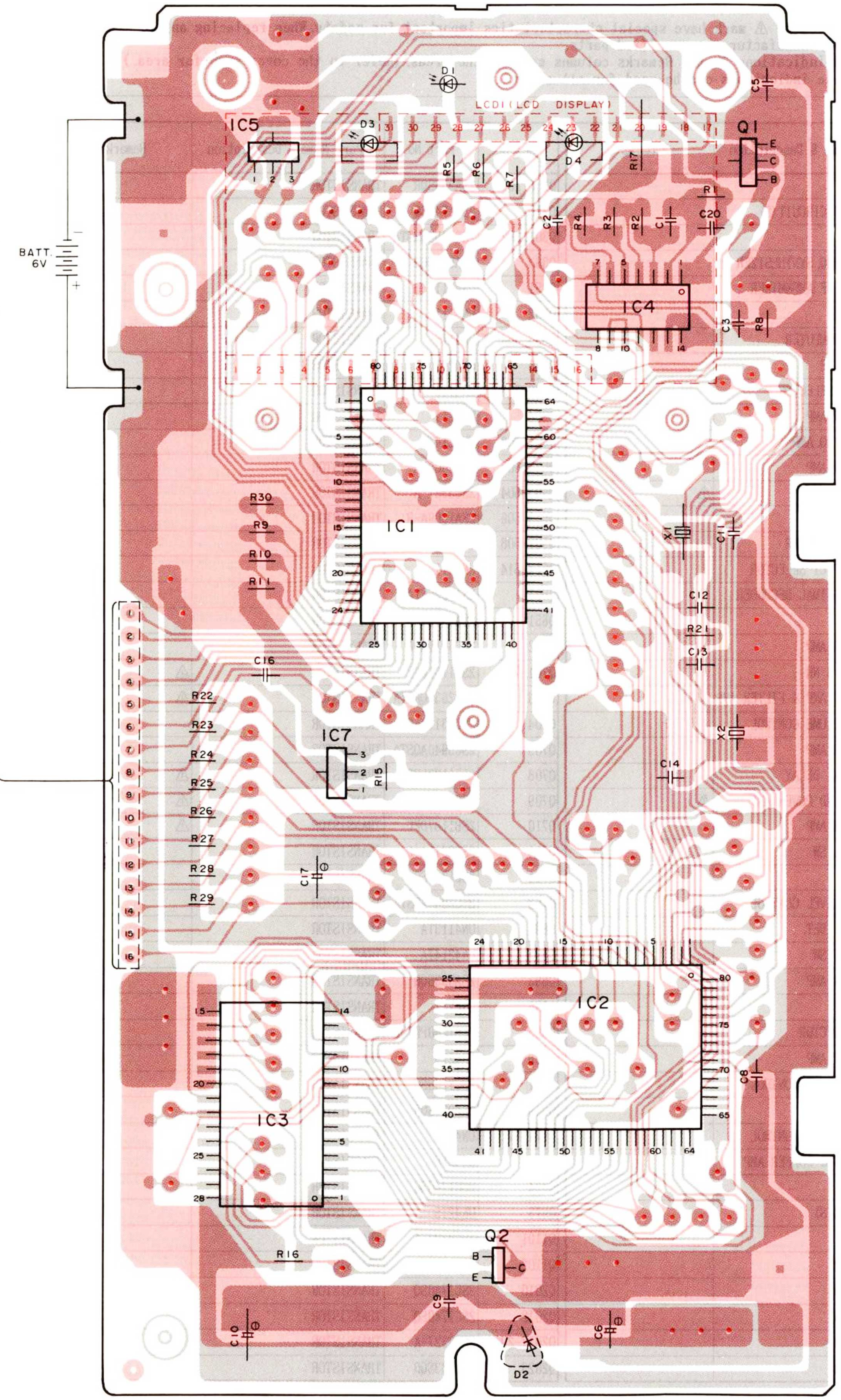
Notes:

This diagram shows a front view of the IC mounting surface.

1. The circuit shown in ( ) on the conductor indicates printed circuit on the back side of the printed circuit board.
2. The circuit shown in ( ) on the conductor indicates printed circuit on the front side of the printed circuit board.
3. The symbols (•) shown in the circuit board indicate connection points between conductors on the front side and back side of the circuit board.

• Remote control transmitter





■ REPLACEMENT PARTS LIST

Notes : * Important safety notice:
Components identified by ⚠ 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	SVIUPC1161C3	I. C, FM MPX	
IC351	M37422M6201F	I. C, MICROCOMPUTER	
IC352	TC74HC42AP	I. C, FL DRIVE	
IC401	TC9163N	I. C, INPUT SELECTOR	
IC402	M5238P-1	I. C, BUFFER AMP	
IC451	AN6558F	I. C, PHONO EQ. AMP	
IC501	AN6558F	I. C, BUFFER AMP	
IC601	SVI3206B	I. C, POWER AMP	⚠
IC851	BA6218	I. C, MOTOR DRIVE	
IC901	LC6554H4399	I. C, MICROCOMPUTER	
IC951	TC4051BP	I. C, FREQUENCY SELECTOR	
IC952	XRU4028B	I. C, BCD/DECIMAL DECORDER	
IC953	XR-1091DCP	I. C, B. P. F	
IC954	AN6552F	I. C, BUFFER AMP	
IC1001	SVITA7629P	I. C, DOLBY B NR	
IC1002	M5218P	I. C, MIXING AMP & FILTER AMP	
IC1003	TC9212P	I. C, ATT/VOLUME CONTROL	
IC1004	M5218P	I. C, BUFFER AMP	
IC1005	M50198P	I. C, DIGITAL DELAY	
IC1101	SVI3100B	I. C, SURROUND POWER AMP	⚠
IC2001	AN6554F	I. C, BUFFER AMP	
IC2002	TC9214P	I. C, ANALOG SW	
IC2004	AN6554F	I. C, B. P. F.	
IC2006	LC7522	I. C, BAND LEVEL CONTROL	
IC2007	AN6552F	I. C, SIGNAL DET.	
IC2008	TC9214P	I. C, ANALOG SW	
IC2009	AN6552F	I. C, BUFFER AMP	
IC2010	AN6554F	I. C, EQ AMP	
IC2011	TC9162N	I. C, EQ SELECTOR	
IC2012-014	M5238P-1	I. C, BUFFER AMP	
IC2015-018	M5241L	I. C, ATT/VOLUME CONTROL	
IC2019-024	M5238P-1	I. C, BUFER AMP	
IC2025, 026	M5241L	I. C, ATT/VOLUME CONTROL	
IC2027	M5238P-1	I. C, MIXING & BUFFER AMP	
		TRANSISTOR(S)	
Q101, 102	2SC2785FE	TRANSISTOR	
Q201, 202	2SC2787L	TRANSISTOR	
Q204, 205	2SC1740SQ	TRANSISTOR	
Q206	2SA933SQR	TRANSISTOR	
Q207	2SC1740SQ	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q208, 209	2SA933SQR	TRANSISTOR	
Q210	2SC1740SQ	TRANSISTOR	
Q301, 302	2SD1450QRSTA	TRANSISTOR	
Q303	2SA933SQR	TRANSISTOR	
Q351	UN4211	TRANSISTOR	
Q352	UN4111	TRANSISTOR	
Q353, 354	UN4115	TRANSISTOR	
Q355	UN4211	TRANSISTOR	
Q356-363	UN4115	TRANSISTOR	
Q364	UN4211	TRANSISTOR	
Q401, 402	UN4214TA	TRANSISTOR	
Q501, 502	2SJ40CDTA	TRANSISTOR	
Q503, 504	2SC3327-A	TRANSISTOR	
Q505, 506	2SA1309A-R	TRANSISTOR	
Q507, 508	2SC3327-A	TRANSISTOR	
Q513, 514	UN4211	TRANSISTOR	
Q601	2SA992EFTA	TRANSISTOR	
Q651	2SA1309A-R	TRANSISTOR	
Q652	2SC3311A-Q	TRANSISTOR	
Q701, 702	2SD1761DEF	TRANSISTOR	⚠
Q703	2SC2631QRSTA	TRANSISTOR	⚠
Q704	2SC3311A-Q	TRANSISTOR	
Q705	2SC3940AQSTA	TRANSISTOR	
Q708	2SB1187DEF	TRANSISTOR	⚠
Q709	2SC2631QRSTA	TRANSISTOR	⚠
Q710	2SB1187DEF	TRANSISTOR	⚠
Q713	2SC3311A-Q	TRANSISTOR	
Q751	2SC1740SQ	TRANSISTOR	
Q752	2SC3940AQSTA	TRANSISTOR	
Q891	UN4113TA	TRANSISTOR	
Q892	UN4214TA	TRANSISTOR	
Q893	2SA933SQR	TRANSISTOR	
Q894	UN4211	TRANSISTOR	
Q895	2SB1240PRTV6	TRANSISTOR	
Q896	UN4213	TRANSISTOR	
Q901	2SC1740SQ	TRANSISTOR	
Q949	2SA933SQR	TRANSISTOR	
Q971, 972	UN4115	TRANSISTOR	
Q973	UN4215	TRANSISTOR	
Q974	2SC1740SQ	TRANSISTOR	
Q975	UN4215	TRANSISTOR	
Q1101	2SC3327-A	TRANSISTOR	
Q1102	2SA933SQR	TRANSISTOR	
Q2010	2SC1740SQ	TRANSISTOR	
Q2012	2SC1740SQ	TRANSISTOR	
Q2017-2022	2SC3327-A	TRANSISTOR	
Q2023	2SA933SQR	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
		DIODE(S)	
D101	MA165	DIODE	
D202	MA4110MTA	DIODE	
D204	MA165	DIODE	
D206	MA165	DIODE	
D301	MA165	DIODE	
D352-354	MA165	DIODE	
D355	1SS291TA	DIODE	
D356	MA165	DIODE	
D358-364	MA165	DIODE	
D366	MA700	DIODE	
D553	LN846RP	DIODE	
D602, 603	MA4120	DIODE	
D651	MA165	DIODE	
D652	MA4068M	DIODE	
D701-704	P300DLF	DIODE	⚠
D705, 706	MA4062MTA	DIODE	
D709	MA4330MTA	DIODE	
D710	MA29WA	DIODE	⚠
D711	MA4160-L	DIODE	
D712	MA4082MTA	DIODE	⚠
D751-754	SVDS5688GT3	DIODE	⚠
D755	MA165	DIODE	
D757	MA4068M	DIODE	
D891	MA165	DIODE	
D892	LN846RP	DIODE	
D893	MA29WA	DIODE	
D902-906	MA165	DIODE	
D907	1SS291TA	DIODE	
D908-911	MA165	DIODE	
D912	MA4056MTA	DIODE	
D914-917	MA165	DIODE	
D919	MA165	DIODE	
D921, 922	MA165	DIODE	
D951, 952	MA4062MTA	DIODE	
D954	MA4030MTA	DIODE	
D955	MA165	DIODE	
D957-960	MA165	DIODE	
D961	MA4051MTA	DIODE	
D971	MA165	DIODE	
D972-974	LN031527PH	L. E. D. BLOCK	
D1001	MA4120	DIODE	
D1002-1005	MA165	DIODE	
D1101-1104	GP15GLF	DIODE	⚠
D2001, 2002	MA4075HTA	DIODE	
D2003	MA700	DIODE	
D2005, 2006	MA4030MTA	DIODE	
D2007, 2008	MA4043M	DIODE	
D2009, 2010	MA4030MTA	DIODE	
D2011-2014	MA4043M	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D2015, 2016	MA4030MTA	DIODE	
D2025-2028	MA165	DIODE	
D2029, 2030	MA4082MTA	DIODE	
		VARIABLE RESISTOR(S)	
VR301	EVNDXAA00B53	V. R, MPX VCO ADJ.	
VR351-354	EVQWQ2F1524B	V. R, P. EQ	
VR501	EUWMJCF25B15	V. R, MAIN VOLUME	
VR502	EVJ01CF02G15	V. R, BALANCE	
VR971	EVQWQ102224B	V. R, TUNING	
VR1001	EVJ01CF02G15	V. R, INPUT BALANCE	
		THERMISTOR(S)	
TH2001-003	ERTD2ZHL103T	THERMISTOR	
		COMPONENT COMBINATION(S)	
Z201	RLA2Z001-T	COIL	
Z202	SLI7Z101-T	COMPONENT COMBINATION	
Z351, 352	EXFP12331MF	COMPONENT COMBINATION	
Z353	EXBF9E473J	COMPONENT COMBINATION	
Z354	EXBF9E103J	COMPONENT COMBINATION	
Z355	EXBF5E104J	COMPONENT COMBINATION	
Z356	EXBF9E104J	COMPONENT COMBINATION	
Z891	A1QH3027H0	COMPONENT COMBINATION	
Z901	EXFP12331MF	COMPONENT COMBINATION	
Z902	EXBF8E473J	COMPONENT COMBINATION	
Z903	EXBF5E103J	COMPONENT COMBINATION	
Z904	EXBF8E103J	COMPONENT COMBINATION	
Z905	EXBF5E103J	COMPONENT COMBINATION	
Z2002, 2003	EXBF6E824J		
		COIL(S)	
L101	RLQZPR47KT-Y	COIL	
L102	RLQZP1R2KT-Y	COIL	
L203, 204	ELEPK1R0MA	COIL	
L351	ELEPK101KA	COIL	
L601, 602	SLQY07G-40	COIL	
L851, 852	RLQZP1R0KT-Y	COIL	
L901, 902	ELEPK101KA	COIL	
L951-953	RLQZP4R7KT-Y	COIL	
L1001	ELEPK101KA	COIL	
		TRANSFORMER(S)	
T201	RLI4B002-Z	COIL	
T202	RLI4B003-Z	COIL	
T701	RTP1Q5C002AV	TRANSFORMER	⚠
T751	SLT5H2	TRANSFORMER	⚠

Ref. No.	Part No.	Part Name & Description	Remarks
		FILTER(S)	
CF201, 202	RLFETNGM02LA	RED(10.700MHz)	
CF201, 202	RLFETNGM02LB	BLUE(10.675MHz)	
CF201, 202	RLFETNGM02LC	ORANGE(10.725MHz)	
CF351	EF0GC4004A4	CERAMIC FILTER	
CF901	EF0GC4004A4	CERAMIC FILTER	
		OSCILLATOR(S)	
X101	SVQ49U722-S	OSCILLATOR	
X1001	EF0GC3004T4	OSCILLATOR	
		DISPLAY TUBE	
FL901	RSL0055-F	DISPLAY TUBE	
		FUSE(S)	
F1	XBA1F60NU14	FUSE	⚠
F2, 3	XBA1F25NU14	FUSE	⚠
		SWITCH(ES)	
S351	EVQ21405R	SW, SLOPE(Q)	
S352	EVQ21405R	SW, P. EQ 1	
S353	EVQ21405R	SW, P. EQ 2	
S354	EVQ21405R	SW, P. EQ 3	
S355	EVQ21405R	SW, FIXED PRESET	
S356	EVQ21405R	SW, MANUAL PRESET 1	
S357	EVQ21405R	SW, MANUAL PRESET 2	
S358	EVQ21405R	SW, MANUAL PRESET 3	
S359	EVQ21405R	SW, P. EQ MEMORY	
S360	EVQ21405R	SW, DISPLAY MODE	
S361	EVQ21405R	SW, P. EQ ON/OFF	
S362	EVQ21405R	SW, FINE ON/OFF	
S363	EVQ21405R	SW, DOLBY ON/OFF	
S364	EVQ21405R	SW, REAR LEVEL DOWN	
S365	EVQ21405R	SW, REAR LEVEL UP	
S601	SSH2137	SW, SPEAKERS	
S701	SSH1238	SW, POWER	⚠
S702	RSS3B004S	SW, TAP SELECTOR	⚠
S901	EVQ21405R	SW, PRESET TUNING 1	
S902	EVQ21405R	SW, PRESET TUNING 2	
S903	EVQ21405R	SW, PRESET TUNING 3	
S904	EVQ21405R	SW, PRESET TUNING 4	
S905	EVQ21405R	SW, PRESET TUNING 5	
S906	EVQ21405R	SW, PRESET TUNING 6	
S907	EVQ21405R	SW, PRESET TUNING 7	
S908	EVQ21405R	SW, PRESET TUNING 8	
S909	EVQ21405R	SW, PRESET TUNING 9	

Ref. No.	Part No.	Part Name & Description	Remarks
S910	EVQ21405R	SW, PRESET TUNING 0	
S911	EVQ21405R	SW, MEMORY SCAN	
S912	EVQ21405R	SW, FM MODE	
S913	EVQ21405R	SW, FM	
S914	EVQ21405R	SW, AM	
S917	EVQ21405R	SW, MEMORY	
S918	EVQ21405R	SW, LOUDNESS	
S927	EVQ21405R	SW, PHONO	
S928	EVQ21405R	SW, TUNER	
S929	EVQ21405R	SW, CD	
S930	EVQ21405R	SW, VCR2	
S931	EVQ21405R	SW, VCR1	
S932	EVQ21405R	SW, TAPE MONITOR	
S933	EVQ21405R	SW, TUNING MODE	
		CONNECTOR(S) & SOCKET(S)	
CN201	RJT057W007	CONNECTOR(7P)	
CN201A	RJU057W007	SOCKET(7P)	
CN202	RJT057W007	CONNECTOR(7P)	
CN202A	RJU057W007	SOCKET(7P)	
CN351, 352	SJT30648BB1	CONNECTOR(6P)	
CN402	RJT003K006M1	CONNECTOR(6P)	
CN402A	RJU003K006M1	SOCKET(6P)	
CN501	RJT003K006M1	CONNECTOR(6P)	
CN502	RJT057W004	CONNECTOR(4P)	
CN503	RJT003K006M1	CONNECTOR(6P)	
CN504	RJT057W004	CONNECTOR(4P)	
CN601	RJS1A1705	CONNECTOR(5P)	
CN604	RJS1A1703	CONNECTOR(3P)	
CN651	SJT3213	CONNECTOR(2P)	
CN751	SJS305-1	CONNECTOR(3P)	
CN901	RJT003K008M1	CONNECTOR(8P)	
CN901A	RJU003K008M1	SOCKET(8P)	
CN902	RJT003K008M1	CONNECTOR(8P)	
CN902A	RJU003K008M1	SOCKET(8P)	
CN903	RJT003K008M1	CONNECTOR(8P)	
CN903A	RJU003K008M1	SOCKET(8P)	
CN904	RJT003K008M1	CONNECTOR(8P)	
CN904A	RJU003K008M1	SOCKET(8P)	
CN905	RJT003K008M1	CONNECTOR(8P)	
CN905A	RJU003K008M1	SOCKET(8P)	
CN906, 907	SJT30648BB1	CONNECTOR(6P)	
CN908	SJT30549BB1	CONNECTOR(5P)	
CN909	SJT30445JQ	CONNECTOR(4P)	
CN910	RJT003K008M1	CONNECTOR(8P)	
CN910A	RJU003K008M1	SOCKET(8P)	
CN1001	RJT057W007	CONNECTOR(7P)	
CN1001A	RJU057W007	SOCKET(7P)	
CN1002	RJT057W007	CONNECTOR(7P)	
CN1002A	RJU057W007	SOCKET(7P)	
CN2001	RJT003K010M1	CONNECTOR(10P)	

Ref. No.	Part No.	Part Name & Description	Remarks
CN2001A	RJU003K010M1	SOCKET (10P)	
CN2002	RJT003K008M1	CONNECTOR (8P)	
CN2002A	RJU003K008M1	SOCKET (8P)	
CN2003	RJT057W004	CONNECTOR (4P)	
CN2003A	RJU057W004	SOCKET (4P)	
CN2004	RJT057W004	CONNECTOR (4P)	
CN2004A	RJU057W004	SOCKET (4P)	
CN353-1	RJS1A1704	SOCKET (4P)	
CN353-2	RJS1A1705	CONNECTOR (5P)	
CN351A	SJS50681BB	SOCKET (6P)	
CN352A	SJS50681BB	SOCKET (6P)	
CN401A	SJT3213	SOCKET (2P)	
CN501A	RJU003K006M1	SOCKET (6P)	
CN502A	RJU057W004	SOCKET (4P)	
CN503A	RJU003K006M1	SOCKET (6P)	
CN504A	RJU057W004	SOCKET (4P)	
CN602A	RJS1A1704	SOCKET (4P)	
CN701A	RJS1A1704	SOCKET (4P)	
CN702A	RJS1A1703	CONNECTOR (3P)	
CN703A	RJS1A1703	CONNECTOR (3P)	
CN705A	SJT3213	SOCKET (2P)	
CN906A	SJS50681BB	SOCKET (6P)	
CN907A	SJS50681BB	SOCKET (6P)	
CN908A	SJS50581BB	SOCKET (5P)	
CN909A	SJS50482JQH	SOCKET (4P)	
CN401B	SJT3213	SOCKET (2P)	
CN602B	RJS1A1704	SOCKET (4P)	
CN701B	RJS1A1704	SOCKET (4P)	
CN702B	RJS1A1703	CONNECTOR (3P)	
CN703B	RJS1A1703	CONNECTOR (3P)	
CN703C	RJS1A1703	CONNECTOR (3P)	
CN703D	RJS1A1703	CONNECTOR (3P)	
		SIELD PART(S)	
E401	SNE1004-1	GND PLATE	
E404, 405	SME103-6	P. C. B. HOLDER	
E504, 505	RSC0125	SIELD PLATE	
E701-706	RJR0011	FUSE HOLDER	
E951	RSC0126	SIELD PLATE	
E2001	RSC0127-1	SIELD PLATE	
		JACK (S)	
JK101	RJH4405	JACK, ANTENNA	
JK401	SJF3069N	JACK, PHONO/CD	
JK402	SJF3069N	JACK, VCR1	
JK403	SJF3069N	JACK, TAPE	
JK404	SJF3069N	JACK, PRE OUT /MAIN IN	
JK405	SJFK5-1	JACK, VCR2 INPUT	
JK406	SJFD7-4	JACK, VIDEO OUT	
JK601-603	RJR0054	JACK, SPEAKERS	

Ref. No.	Part No.	Part Name & Description	Remarks
JK791, 792	SJS9233B	JACK, AC OUTLET	⚠
JK793	SJS9234B	JACK, AC INLET	⚠
JK891	RJJ33TR01	JACK, REMOTE CONTROL OUT	
HP601	SJJ146B	JACK, HEADPHONE	
		RELAY (S)	
RL601	SSY134	RELAY	
RL751	RSY0005-1C	RELAY	⚠
		FRONT END PACK ASS'Y	
TN101	RAL0006	FM FRONT END	

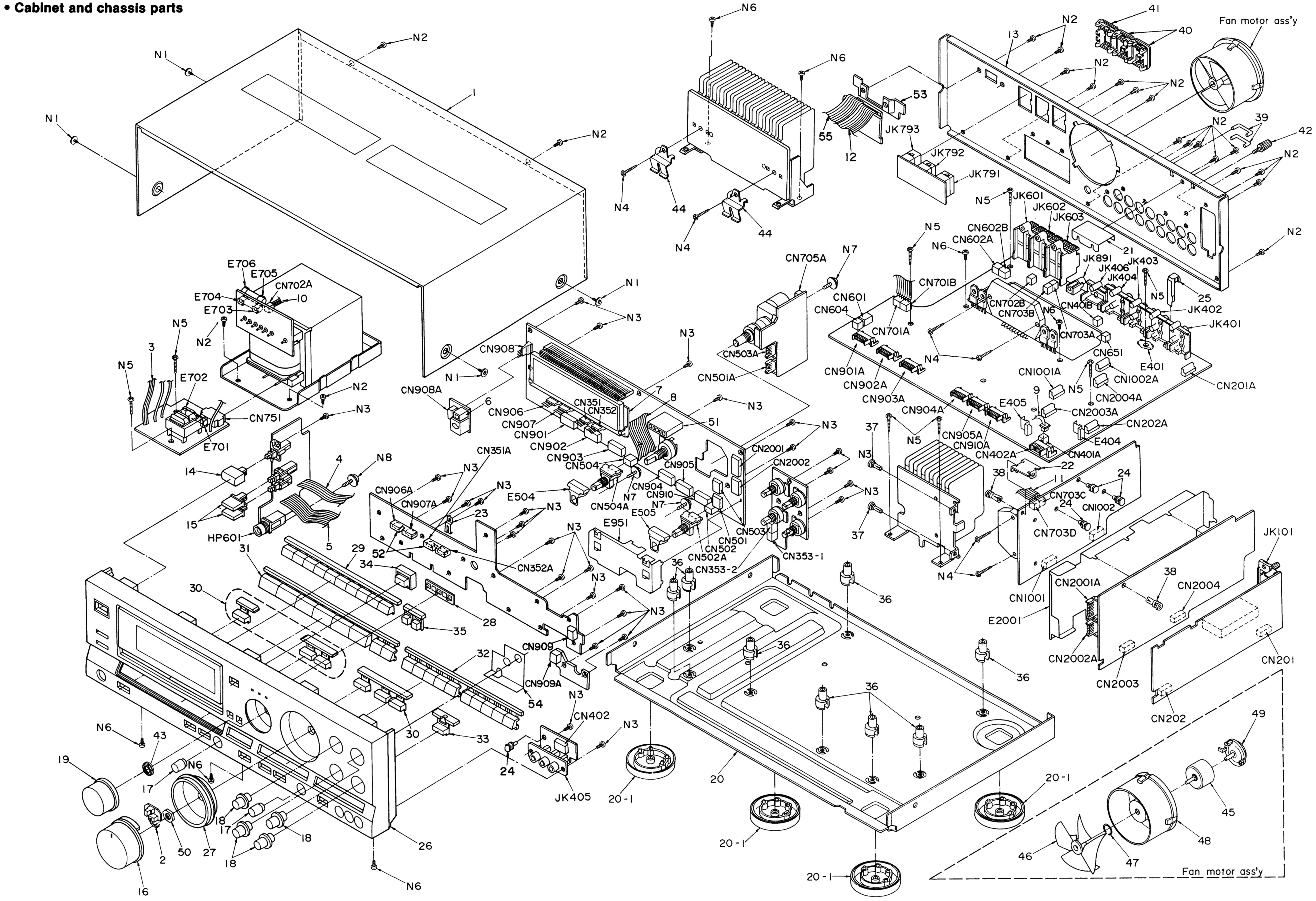
Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RKM0016A-K	CABINET	
2	REE0023	CONNECTOR ASS'Y(2P)(CN705)	
3	RWJ1803120QK	FLAT CABLE(3P)(CN604)	
4	RWJ1805150QK	FLAT CABLE(5P)(CN601)	
5	RWJ1808330QK	FLAT CABLE(8P)(CN602)	
6	RMN0069	LED HOLDER	
7	RMN0079	FL HOLDER	
8	RWJ1809200QK	FLAT CABLE(9P)(CN353)	
9	REL28H360XX	CONNECTOR(2P)	
10	RWJ1803210QQ	FLAT CABLE(3P)(CN702)	
11	RWJ1806520QQ	FLAT CABLE(6P)(CN703)	
12	RWJ1808220QK	FLAT CABLE(8P)(CN701)	
13	RGR0080D-A	REAR PANEL	
14	RGU0030	BUTTON, POWER	
15	RGU0101	BUTTON, SPEAKER SELECTOR	
16	RGW0021	KNOB, MAIN VOLUME	
17	RGW0073	KNOB, BALANCE	
18	RGW0083	KNOB, P. EQ. VOL	
19	RGW0085	KNOB, TUNING	
20	RFKJAGX500PP	CHASSIS ASS'Y	
20-1	RKA0009	FOOT	
21	RMA0295	P. C. B. SUPPORT ANGLE(A)	
22	RMA0310	P. C. B. SUPPORT ANGLE(B)	
23	RMC0082	EARTH ANGLE	
24	RMN0086	SPACER	
25	RSC0105	SHIELD PLATE	
26	RFKGAGX700PP	FRONT PANEL ASS'Y	
27	RGK0266	VOLUME ORNAMENT	
28	RGL0087	PANEL LIGHT	
29	RGU0344A	BUTTON, PRESET	
30	RGU0348B	BUTTON, MODE	
31	RGU0394C	BUTTON, SELECTOR	
32	RGU0395B	BUTTON, P. EQ	
33	RGU0396	BUTTON, EQ ON/OFF	
34	RGU0397	BUTTON, TUNING	
35	RGU0399	BUTTON, MEMORY	
36	SHE187-2	P. C. B. SUPPORT	
37	SHR411	LATCH	
38	SHR415	LATCH	
39	SJP9205-2T	SHORT PIN	
40	SJS9233A	AC OUTLET COVER	
41	SJS9234A	AC INLET COVER	
42	SNE2123	GND TERMINAL	
43	SNE4021	NUT	
44	SUS894-1	ANGLE, TRANSISTOR	
45	MDN-4RB4MXA	MOTOR	
46	SHE222	FAN	
47	SUS271	SPRING	
48	SHE233	FAN CASE	
49	SHE234	CAP	
50	XNS7S	NUT	
51	LN031527PH	LED HOLDER	
52	SMC6466	SHIELD PLATE	
53	RMA0309	P. C. B. SUPPORT ANGLE(C)	
54	RSC0133	SHIELD PLATE	
55	RWJ1807150KK	FLAT CABLE(7P)(CN704)	
		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	RPG0570	PACKING CASE	
P2	RPN0324A-1	PAD	
P3	RPN0324B-1	PAD	
P4	RPN0324C-1	PAD	
P5	RPN0324D-1	PAD	
P6	XZB60X60A01	PROTECTION BAG(UNIT)	
P7	XZB24X33C04	PROTECTION BAG(F. B.)	
P8	SPSD155	ACCESSORIES BOX	
		ACCESSORIES	
A1	RFKSAGX700PP	INST. MANUAL ASS'Y	
A2	SJA172	POWER CORD	⚠
A3	SPB1163T	AM LOOP ANTENNA	
A3-1	SMA233-1M	AM ANTENNA HOLDER	
A3-2	XTN3+10AFZ	SCREWS	
A4	SSA272M	FM ANTENNA	
A5	EUR66632	REMOTE CONTROL TRANSMITTER	
A6	SQX7179	WARRANTY CARD	
A7	SQX9129-1	SERVICENTER LIST	

Ref. No.	Part No.	Part Name & Description	Remarks
		REMOTE CONTROL TRANSMITTER	
		INTEGRATED CIRCUIT(S)	
IC1	UPD75308F478	I. C, MICROCOMPUTER	
IC2	UPD65012F251	I. C, DIGITAL PROCESSOR	
IC3	MB8464A10MAT	I. C, S-RAM	
IC4	UPD4069UBGE2	I. C, INVERTER	
IC5	RH5RE50AA	I. C, REGULATOR	
IC7	S8054HNCBT1	I. C, RESET	
		TRANSISTOR(S)	
Q1	UN7231TW	TRANSISTOR	
Q2	UN221DTW	TRANSISTOR	
		DIODE(S)	
D1	TPS705	DIODE	
D2	1SS294TE85R	DIODE	
D3	SE303AS	LED	
D4	SE303AS	LED	
		OSCILLATOR(S)	
X1	CSA400MGTF	OSCILLATOR	
X2	KF38G	OSCILLATOR	
		CABINET	
101	RFKGEUR66632	UPPER CABINET ASS'Y	
102	UR66SB379	SMOKE PLATE	
103	UR66CT380C	RUBBER CONTACT	
104	UR66MF382	WINDOW PLATE	
105	UR66SS400	SPACER	
106	UR66SC370	LCD	
107	UR66CN405	CONNECTOR	
108	UR66CS377A	LOWER CABINET	
109	UR66CS378	BATTERY COVER	
110	XTB2+5GFZ	SCREW	
111	XTS2+8GFZ	SCREW	
112	UR68TD10	BATTERY TERMINAL (COMMON)	
113	UR66TD386	BATTERY TERMINAL (-)	
114	UR66TD385	BATTERY TERMINAL (+)	

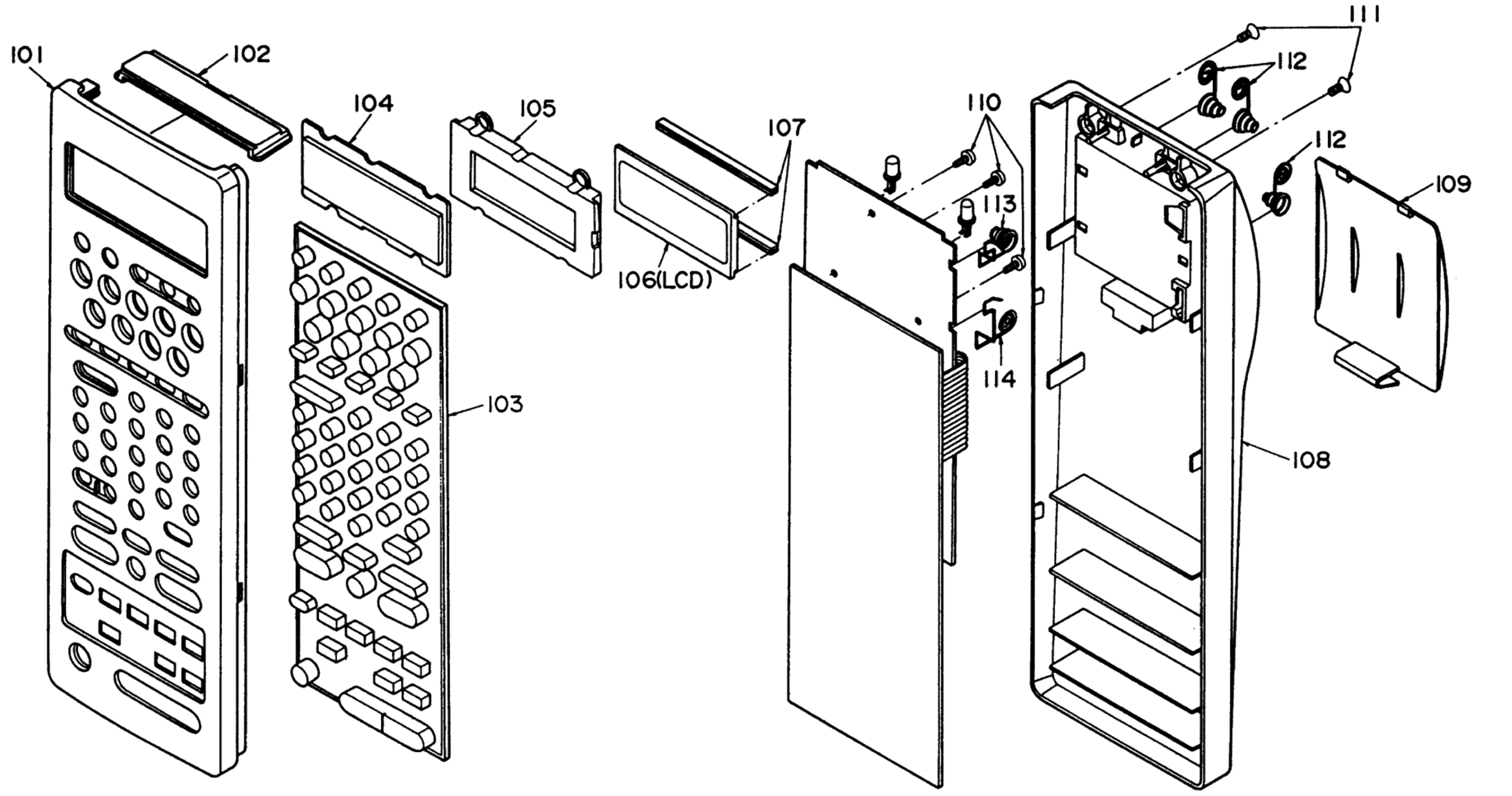
Ref. No.	Part No.	Values & Remarks
		RESISTOR(S)
R1	ERJ6GEYJ682V	1/10W 6.8K
R2	ERJ6GEYJ103V	1/10W 10K
R3	ERJ6GEYJ103V	1/10W 10K
R4	ERJ6GEYJ225	1/10W 2.2M
R5	ERJ6GEYJ124V	1/10W 120K
R6	ERJ6GEYJ561V	1/10W 560
R7	ERJ6GEYG393	1/10W 39K
R8	ERJ6GEYG273V	1/10W 27K
R9	ERJ6GEYJ104V	1/10W 100K
R10	ERJ6GEYJ104V	1/10W 100K
R11	ERJ6GEYJ104V	1/10W 100K
R15	ERJ6GEYJ104V	1/10W 100K
R16	ERJ6GEYJ103V	1/10W 10K
R17	ERD25TLJ8R2U	1/10W 8.2
R21	ERJ6GEYJ334V	1/10W 330K
R22	ERJ6GEYJ104V	1/10W 100K
R23	ERJ6GEYJ104V	1/10W 100K
R24	ERJ6GEYJ104V	1/10W 100K
R25	ERJ6GEYJ104V	1/10W 100K
R26	ERJ6GEYJ104V	1/10W 100K
R27	ERJ6GEYJ104V	1/10W 100K
R28	ERJ6GEYJ104V	1/10W 100K
R29	ERJ6GEYJ104V	1/10W 100K
R30	ERJ6GEYJ563V	1/10W 56K
		CAPACITOR(S)
C1	ECUV1H332KBN	50V 3300P
C2	21WR473K25AT	25V 0.047U
C3	21WR473K25AT	25V 0.047U
C5	ECUV1H103KB	50V 0.01U
C6	ECEA1AU101	10V 100U
C8	ECUV1H103KB	50V 0.01U
C9	ECUV1H103KB	50V 0.01U
C10	ECEA0JU331	6.3V 330U
C11	ECUV1H330KCN	50V 33P
C12	ECUV1H330KCN	50V 33P
C13	ECUV1H330KCN	50V 33P
C14	ECUV1H330KCN	50V 33P
C16	ECUV1H103KB	50V 0.01U
C17	ECEA0JU102E	6.3V 1000U
C20	ECUV1H221KC	50V 220P

EXPLODED VIEWS

• Cabinet and chassis parts



• Remote control transmitter parts



RESISTORS & CAPACITORS

Notes : * Capacity valuse are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
* Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM) , 1M=1,000k (OHM)

Ref. No.	Part No.	Values & Remarks
		RESISTORS
R101, 102	ERDS2TJ103	1/4W 10K
R104	ERDS2TJ102	1/4W 1K
R105	ERDS2TJ561	1/4W 560
R106	ERDS2TJ562	1/4W 5.6K
R107	ERDS2TJ103	1/4W 10K
R108	ERDS2TJ151	1/4W 150
R201	ERDS2TJ332	1/4W 3.3K
R202	ERDS2TJ824	1/4W 820K
R203	ERDS2TJ122	1/4W 1.2K
R204	ERDS2TJ824	1/4W 820K
R205	ERDS2TJ391	1/4W 390
R206	ERDS2TJ561	1/4W 560
R207	ERDS2TJ822	1/4W 8.2K
R208	ERDS2TJ102	1/4W 1K
R209	ERDS2TJ471	1/4W 470
R210	ERDS2TJ332	1/4W 3.3K
R211	ERDS2TJ222	1/4W 2.2K
R212	ERDS2TJ153	1/4W 15K
R213	ERDS2TJ104	1/4W 100K
R214	ERDS2TJ824	1/4W 820K
R215	ERDS2TJ822	1/4W 8.2K
R216	ERDS2TJ563	1/4W 56K
R217	ERDS2TJ223	1/4W 22K
R218	ERDS2TJ123	1/4W 12K
R219	ERDS2TJ562	1/4W 5.6K
R220	ERDS2TJ103	1/4W 10K
R221	ERDS2TJ104	1/4W 100K
R222	ERDS2TJ473	1/4W 47K
R223	ERDS2TJ154	1/4W 150K
R224	ERDS2TJ223	1/4W 22K
R227	ERDS2TJ104	1/4W 100K
R228	ERDS2TJ123	1/4W 12K
R229	ERDS2TJ102	1/4W 1K
R230	ERDS2TJ104	1/4W 100K
R231	ERDS2TJ471	1/4W 470
R232	ERDS2TJ122	1/4W 1.2K
R233	ERDS2TJ684	1/4W 680K
R234	ERDS2TJ103	1/4W 10K
R235	ERDS2TJ471	1/4W 470
R237	ERDS2TJ221	1/4W 220
R247	ERDS2TJ103	1/4W 10K
R301	ERDS2TJ393	1/4W 39K
R302	ERDS2TJ151	1/4W 150
R303, 304	ERDS2TJ223	1/4W 22K
R305, 306	ERDS2TJ272T	1/4W 2.7K
R307, 308	ERDS2TJ104	1/4W 100K
R309	ERDS2TJ334	1/4W 330K
R311	ERDS2TJ102	1/4W 1K
R312	ERDS2TJ153	1/4W 15K
R313, 314	ERDS2TJ473	1/4W 47K
R315, 316	ERDS2TJ103	1/4W 10K
R317	ERDS2TJ473	1/4W 47K
R351	ERDS2TJ272T	1/4W 2.7K
R352	ERDS2TJ105T	1/4W 1M
R353	ERDS2TJ103	1/4W 10K
R355	ERDS2TJ473	1/4W 47K
R357, 358	ERDS2TJ103	1/4W 10K
R359	ERDS2TJ681	1/4W 680
R360-362	ERDS2TJ332	1/4W 3.3K
R367-370	ERDS2TJ331	1/4W 330
R371-374	ERDS2TJ104	1/4W 100K
R376	ERDS2TJ103	1/4W 10K
R378-385	ERDS2TJ102	1/4W 1K
R391-394	ERDS2TJ562	1/4W 5.6K
R396	ERDS2TJ473	1/4W 47K
R401, 402	ERDS2TJ332	1/4W 3.3K
R403, 404	ERDS2TJ822	1/4W 8.2K
R405, 406	ERDS2TJ470	1/4W 47
R407, 408	ERDS2TJ473	1/4W 47K
R411, 412	ERDS2TJ104	1/4W 100K
R413, 414	ERDS2TJ102	1/4W 1K
R417, 418	ERDS2TJ104	1/4W 100K
R419, 420	ERDS2TJ222	1/4W 2.2K
R421	ERDS2TJ332	1/4W 3.3K
R427	ERDS2TJ104	1/4W 100K
R451, 452	ERDS2TJ821	1/4W 820
R453, 454	ERDS2TJ224T	1/4W 220K
R455, 456	ERDS2TJ563	1/4W 56K
R457, 458	ERDS2TJ271	1/4W 270
R459, 460	ERDS2TJ680T	1/4W 68
R461, 462	ERDS2TJ184T	1/4W 180K
R463, 464	ERDS2TJ123	1/4W 12K
R465, 466	ERDS2TJ563	1/4W 56K
R467, 468	ERDS2TJ102	1/4W 1K
R501, 502	ERDS2TJ222	1/4W 2.2K
R503, 504	ERDS2TJ103	1/4W 10K
R505, 506	ERDS2TJ104	1/4W 100K
R507, 508	ERDS2TJ562	1/4W 5.6K
R509, 510	ERDS2TJ563	1/4W 56K
R511	ERDS2TJ103	1/4W 10K
R513, 514	ERDS2TJ393	1/4W 39K
R515, 516	ERDS2TJ222	1/4W 2.2K
R517, 518	ERDS2TJ102	1/4W 1K
R520	ERDS2TJ394	1/4W 390K
R521	ERDS2TJ104	1/4W 100K
R522	ERDS2TJ103	1/4W 10K
R522A	ERDS2TJ153	1/4W 15K
R523, 524	ERDS2TJ221	1/4W 220
R525, 526	ERDS2TJ102	1/4W 1K
R527	ERDS2TJ394	1/4W 390K
R528	ERDS2TJ104	1/4W 100K
R529	ERDS2TJ222	1/4W 2.2K
R531, 532	ERDS2TJ153	1/4W 15K
R567	ERDS2TJ391	1/4W 390
R601, 602	ERDS2TJ102	1/4W 1K
R603, 604	ERDS2TJ563	1/4W 56K
R605, 606	ERDS2TJ182	1/4W 1.8K
R607, 608	ERDS2TJ563	1/4W 56K
R609, 610	ERDS2TJ470	1/4W 47
R611, 612	ERDS1FVJ100T	1/2W 10 ⚠
R613	ERDS2TJ223	1/4W 22K
R614	ERD25FJ470	1/4W 47 ⚠
R615	ERDS2TJ473	1/4W 47K ⚠
R616-618	ERDS1FVJ221T	1/2W 220 ⚠
R619, 620	ERG2ANJP331S	2W 330
R621, 622	ERDS2TJ222	1/4W 2.2K
R623	ERDS2TJ684	1/4W 680K
R624	ERDS2TJ103	1/4W 10K
R627	ERDS2TJ154	1/4W 150K
R628	ERDS2TJ684	1/4W 680K
R629, 630	ERDS1FVJ181T	1/2W 180 ⚠
R651-654	ERDS2TJ223	1/4W 22K
R655	ERDS2TJ392T	1/4W 3.9K
R656, 657	ERDS2TJ103	1/4W 10K
R658	ERDS2TJ223	1/4W 22K
R659-661	ERDS1FVJ220T	1/2W 22 ⚠
R662	ERDS2TJ104	1/4W 100K
R701	ERDS1FVJ332T	1/2W 3.3K ⚠
R702	ERDS2TJ122	1/4W 1.2K ⚠
R703	ERDS2TJ272T	1/4W 2.7K
R704	ERDS2TJ222	1/4W 2.2K
R705	ERDS2TJ272T	1/4W 2.7K
R706, 707	ERDS2TJ1R2	1/4W 1.2
R708, 709	ERDS1FVJ180T	1/2W 18 ⚠
R710	ERDS2TJ272T	1/4W 2.7K
R711	ERDS1FVJ2R2T	1/2W 2.2 ⚠
R713	ERDS2TJ183T	1/4W 18K ⚠
R715	ERDS2TJ101	1/4W 100 ⚠
R716	ERDS2TJ222	1/4W 2.2K
R717	ERD25FVJ150T	1/4W 15 ⚠
R718, 719	ERDS2TJ1R8T	1/4W 1.8
R753, 754	ERDS2TJ472	1/4W 4.7K
R755	ERDS2TJ102	1/4W 1K
R771, 772	ERDS1FVJ2R2T	1/2W 2.2 ⚠

Ref. No.	Part No.	Values & Remarks
R773, 774	ERD2FCVJ4R7T	1/4W 4.7 ⚠
R777, 778	ERD2FCVJ8R2T	1/4W 8.2 ⚠
R779	ERDS1FVJ3R9T	1/2W 3.9 ⚠
R780	ERDS1FVJ4R7T	1/2W 4.7 ⚠
R791	ERC12ZGK335	1/2W 3.3M ⚠
R851	ERDS1FVJ2R2T	1/2W 2.2 ⚠
R891	ERDS2TJ102	1/4W 1K
R894	ERDS2TJ102	1/4W 1K
R895	ERDS2TJ103	1/4W 10K
R901	ERDS2TJ152	1/4W 1.5K
R902	ERDS2TJ105T	1/4W 1M
R903	ERDS2TJ563	1/4W 56K
R904	ERDS2TJ123	1/4W 12K
R905	ERDS2TJ103	1/4W 10K
R906	ERDS2TJ334	1/4W 330K
R907	ERDS2TJ681	1/4W 680
R910	ERDS2TJ122	1/4W 1.2K
R913, 914	ERDS2TJ101	1/4W 100
R915	ERDS2TJ331	1/4W 330
R919, 920	ERDS2TJ122	1/4W 1.2K
R921	ERDS2TJ103	1/4W 10K
R922	ERDS2TJ224T	1/4W 220K
R923-925	ERDS2TJ331	1/4W 330
R946	ERDS2TJ222	1/4W 2.2K
R947	ERDS2TJ103	1/4W 10K
R948	ERDS2TJ221	1/4W 220
R949	ERDS2TJ472	1/4W 4.7K
R951-954	ERDS2TJ562	1/4W 5.6K
R955	ERDS2TJ152	1/4W 1.5K
R956	ERDS2TJ474	1/4W 470K
R957	ERDS2TJ683	1/4W 68K
R958, 959	ERDS1FVJ331T	1/2W 330 ⚠
R960	ERDS2TJ152	1/4W 1.5K
R964	ERDS2TJ224T	1/4W 220K
R965	ERDS2TJ104	1/4W 100K
R966	ERDS2TJ332	1/4W 3.3K
R967	ERDS2TJ102	1/4W 1K
R968	ERDS2TJ273	1/4W 27K
R969	ERDS2TJ103	1/4W 10K
R971	ERDS2TJ331	1/4W 330
R972, 973	ERDS2TJ151	1/4W 150
R976, 977	ERDS2TJ103	1/4W 10K
R978-980	ERDS2TJ102	1/4W 1K
R981, 982	ERDS2TJ473	1/4W 47K
R983, 984	ERDS2TJ562	1/4W 5.6K
R985, 986	ERDS2TJ824	1/4W 820K
R987, 988	ERDS2TJ224T	1/4W 220K
R991	ERDS2TJ104	1/4W 100K
R1001-1004	ERDS2TJ183T	1/4W 18K
R1005-1010	ERDS2TJ153	1/4W 15K
R1011	ERDS2TJ272T	1/4W 2.7K
R1012	ERDS2TJ471	1/4W 470

Ref. No.	Part No.	Values & Remarks
R1013	ERDS2TJ101	1/4W 100
R1014	ERDS2TJ122	1/4W 1.2K
R1015, 1016	ERDS2TJ473	1/4W 47K
R1017	ERDS2TJ274	1/4W 270K
R1018	ERDS2TJ154	1/4W 150K
R1019	ERDS2TJ332	1/4W 3.3K
R1020	ERDS2TJ181T	1/4W 180
R1021, 1022	ERDS2TJ223	1/4W 22K
R1023	ERDS2TJ103	1/4W 10K
R1024-1026	ERDS2TJ474	1/4W 470K
R1027-1029	ERDS2TJ332	1/4W 3.3K
R1030	ERDS2TJ333	1/4W 33K
R1031	ERDS2TJ105T	1/4W 1M
R1032	ERDS2TJ103	1/4W 10K
R1033	ERDS2TJ222	1/4W 2.2K
R1034	ERDS2TJ392T	1/4W 3.9K
R1035	ERDS2TJ103	1/4W 10K
R1036	ERDS2EJ820	1/4W 82
R1049	ERDS2TJ102	1/4W 1K
R1101, 1102	ERDS2TJ222	1/4W 2.2K
R1103, 1104	ERDS2TJ563	1/4W 56K
R1107, 1108	ERDS2TJ563	1/4W 56K
R1109, 1110	ERDS2TJ102	1/4W 1K
R1111	ERDS2TJ684	1/4W 680K
R1113	ERDS2TJ564	1/4W 560K
R1114	ERDS2TJ154	1/4W 150K
R1115, 1116	ERD25FVJ4R7T	1/4W 4.7 ⚠
R1117	ERDS2TJ222	1/4W 2.2K
R1118	ERDS2TJ104	1/4W 100K
R1120	ERDS2TJ824	1/4W 820K
R1121	ERDS2TJ104	1/4W 100K
R1123	ERDS2TJ102	1/4W 1K
R1124	ERD25FJ470	1/4W 47 ⚠
R1125	ERDS2TJ103	1/4W 10K
R1126	ERDS2TJ222	1/4W 2.2K
R1127	ERDS2TJ103	1/4W 10K
R1128	ERD25FJ470	1/4W 47 ⚠
R2001, 2002	ERDS2TJ122	1/4W 1.2K
R2003, 2004	ERDS2TJ562	1/4W 5.6K
R2005, 2006	ERDS2TJ122	1/4W 1.2K
R2007, 2008	ERDS2TJ562	1/4W 5.6K
R2009, 2010	ERDS2TJ104	1/4W 100K
R2011, 2012	ERDS2TJ273	1/4W 27K
R2013, 2014	ERDS2TJ473	1/4W 47K
R2015, 2016	ERDS2TJ223	1/4W 22K
R2017, 2018	ERDS2TJ123	1/4W 12K
R2019, 2020	ERDS2TJ563	1/4W 56K
R2021-2024	ERDS2TJ223	1/4W 22K
R2025, 2026	ERDS2TJ103	1/4W 10K
R2027, 2028	ERDS2TJ683	1/4W 68K
R2029, 2030	ERDS2TJ333	1/4W 33K
R2031, 2032	ERDS2TJ821	1/4W 820

Ref. No.	Part No.	Values & Remarks
R2033, 2034	ERDS2TJ123	1/4W 12K
R2039	ERDS2TJ332	1/4W 3.3K
R2041	ERDS2TJ122	1/4W 1.2K
R2045, 2046	ERDS2TJ103	1/4W 10K
R2047, 2048	ERDS2TJ223	1/4W 22K
R2049, 2050	ERDS2TJ333	1/4W 33K
R2051, 2052	ERDS2TJ683	1/4W 68K
R2053, 2054	ERDS2TJ563	1/4W 56K
R2055, 2056	ERDS2TJ223	1/4W 22K
R2057-2060	ERDS2TJ123	1/4W 12K
R2061, 2062	ERDS2TJ223	1/4W 22K
R2063, 2064	ERDS2TJ563	1/4W 56K
R2065, 2066	ERDS2TJ333	1/4W 33K
R2067, 2068	ERDS2TJ683	1/4W 68K
R2069, 2070	ERDS2TJ223	1/4W 22K
R2071, 2072	ERDS2TJ103	1/4W 10K
R2073, 2074	ERDS2TJ821	1/4W 820
R2075, 2076	ERDS2TJ223	1/4W 22K
R2077, 2078	ERDS2TJ123	1/4W 12K
R2085	ERDS2TJ332	1/4W 3.3K
R2089, 2090	ERDS2TJ821	1/4W 820
R2091, 2092	ERDS2TJ123	1/4W 12K
R2093, 2094	ERDS2TJ223	1/4W 22K
R2097, 2098	ERDS2TJ561	1/4W 560
R2099	ERDS2TJ222	1/4W 2.2K
R2100	ERDS2TJ824	1/4W 820K
R2101	ERDS2TJ684	1/4W 680K
R2102, 2103	ERDS2TJ183T	1/4W 18K
R2107	ERDS2TJ392T	1/4W 3.9K
R2108, 2109	ERDS2TJ332	1/4W 3.3K
R2112	ERDS2TJ473	1/4W 47K
R2113	ERDS2TJ332	1/4W 3.3K
R2114	ERDS2TJ103	1/4W 10K
R2114A	ERDS2TJ392T	1/4W 3.9K
R2115	ERDS2TJ332	1/4W 3.3K
R2116	ERDS2TJ392T	1/4W 3.9K
R2117, 2118	ERDS2TJ332	1/4W 3.3K
R2121	ERDS2TJ332	1/4W 3.3K
R2123, 2124	ERDS2TJ122	1/4W 1.2K
R2133	ERDS2TJ223	1/4W 22K
R2134	ERDS2TJ153	1/4W 15K
R2135	ERDS2TJ272T	1/4W 2.7K
R2136	ERDS2TJ103	1/4W 10K
R2137	ERDS2TJ392T	1/4W 3.9K
R2138	ERDS2TJ104	1/4W 100K
R2139	ERDS2TJ183T	1/4W 18K
R2154	ERDS2TJ273	1/4W 27K
R2155	ERDS2TJ824	1/4W 820K
R2156	ERDS2TJ273	1/4W 27K
R2157, 2158	ERDS2TJ824	1/4W 820K
R2159	ERDS2TJ273	1/4W 27K
R2161-2166	ERDS2TJ821	1/4W 820

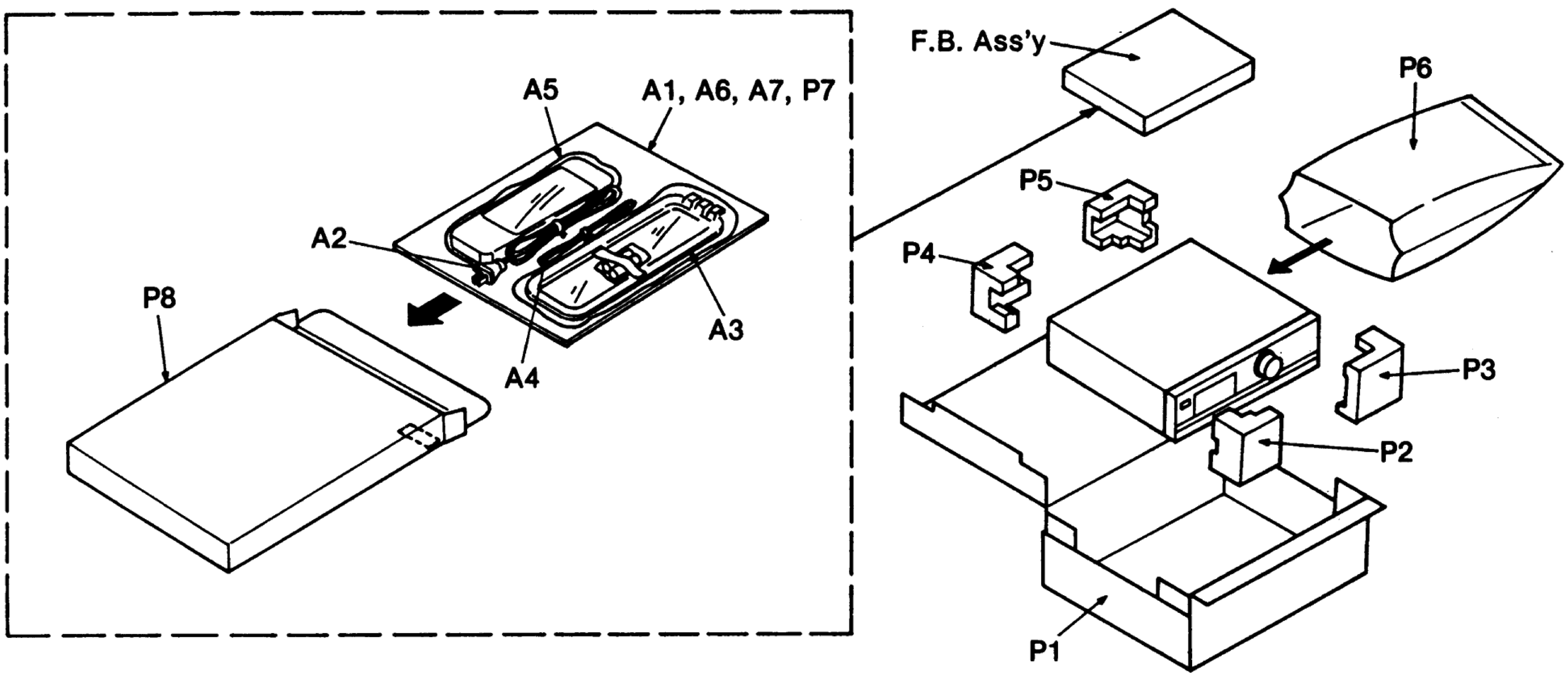
Ref. No.	Part No.	Values & Remarks
R2167-2169	ERDS2TJ823T	1/4W 82K
R2170-2172	ERDS2TJ153	1/4W 15K
R2173-2178	ERDS2TJ394	1/4W 390K
R2179	ERDS2TJ4R7T	1/4W 4.7
R2181-2184	ERDS2TJ272T	1/4W 2.7K
R2185, 2186	ERDS2TJ332	1/4W 3.3K
R2187, 2188	ERDS2TJ471	1/4W 470
R2189, 2190	ERDS2TJ102	1/4W 1K
R2191, 2192	ERDS2TJ332	1/4W 3.3K
R2193, 2194	ERDS2TJ471	1/4W 470
R2195, 2196	ERDS2TJ102	1/4W 1K
R2197, 2198	ERDS2TJ332	1/4W 3.3K
R2199, 2200	ERDS2TJ471	1/4W 470
R2201, 2202	ERDS2TJ102	1/4W 1K
R2203	ERDS2TJ103	1/4W 10K
R2204	ERDS2TJ473	1/4W 47K
R2205	ERDS2TJ394	1/4W 390K
R2208	ERDS2TJ102	1/4W 1K
R2209	ERDS2TJ104	1/4W 100K
R2211-2214	ERDS2TJ221	1/4W 220
R2215, 2216	ERDS2TJ391	1/4W 390
		CAPACITORS
C101, 102	ECBT1H150JC5	50V 15P
C103	ECBT1H102KB5	50V 1000P
C104	ECBT1H181KB5	50V 180P
C105	ECEA0JU221	6.3V 220U
C106	ECKR1H103ZF5	50V 0.01U
C107	ECKT1H223ZF	50V 0.022U
C108	ECEA25M4R7R	25V 4.7U
C109	ECEA1CU330	16V 33U
C110, 111	ECBT1H102KB5	50V 1000P
C201, 202	ECKR1H103ZF5	50V 0.01U
C204	ECBT1H470J5	50V 47P
C205	ECKT1H223ZF	50V 0.022U
C206	ECBT1H150JC5	50V 15P
C207	ECBT1C103MS5	16V 0.01U
C208	ECEA0JU101B	6.3V 100U
C209	ECEA1CK100B	16V 10U
C210-212	ECKT1H223ZF	50V 0.022U
C213	ECBT1H101KB5	50V 100P
C214	ECEA1CK100B	16V 10U
C215	ECKR1H103ZF5	50V 0.01U
C216	ECEA1CK100B	16V 10U
C217	ECEA1HK2R2B	50V 2.2U
C220	ECEA1CK100B	16V 10U
C221	ECFR1E183KR	25V 0.018U
C222	ECQM1H473JZ	50V 0.047U
C225	ECBT1H180JC5	50V 18P
C226	ECKR1H103ZF5	50V 0.01U
C227	ECEA1CK100B	16V 10U

Ref. No.	Part No.	Values & Remarks
C228	ECBT1H100JC5	50V 10P
C301	ECEA1CU101	16V 100U
C302	ECEA1HKR47	50V 0.47U
C303	ECEA1HK010B	50V 1U
C304-306	ECEA1HK3R3	50V 3.3U
C307, 308	ECFR1E273KR	25V 0.027U
C309	ECKT1H223ZF	50V 0.022U
C310	ECFR1E473KR	25V 0.047U
C311	ECQP1471JZ	50V 470P
C312	ECEA1VK4R7	35V 4.7U
C313, 314	ECBT1H181KB5	50V 180P
C351	ECEA1HK010B	50V 1U
C353	ECEA1HK3R3	50V 3.3U
C354, 355	ECEA0JU102	6.3V 1000U
C356	ECKR1H103ZF5	50V 0.01U
C357	ECEA0JU102	6.3V 1000U
C358-360	ECEA1HK2R2B	50V 2.2U
C361	ECBT1H101KB5	50V 100P
C362	ECEA0JU101B	6.3V 100U
C363	ECBT1E103ZF	25V 0.01U
C364	ECEA1HK2R2B	50V 2.2U
C401, 402	ECKR1H103ZF5	50V 0.01U
C407, 408	ECBT1H101KB5	50V 100P
C409, 410	ECKR1H103ZF5	50V 0.01U
C411, 412	ECEA1CU470	16V 47U
C415, 416	ECKR1H103ZF5	50V 0.01U
C417	ECBT1H101KB5	50V 100P
C419	ECEA0JU101B	6.3V 100U
C421, 422	ECEA1CPS220	16V 22U
C425	ECBT1H101KB5	50V 100P
C451, 452	ECEA1VPS4R7	35V 4.7U
C453, 454	ECBT1H101KB5	50V 100P
C455, 456	ECBT1H102KB5	50V 1000P
C457, 458	ECFR1E223KR	25V 0.022U
C459, 460	ECFR1E682KR	25V 6800P
C461, 462	ECEA1VPS4R7	35V 4.7U
C463, 464	ECEA0JPS330	6.3V 33U
C503, 504	ECFR1E333KR	25V 0.033U
C505, 506	ECEA1VPS4R7	35V 4.7U
C509, 510	ECEA1CPS220	16V 22U
C511, 512	ECBT1H220JC5	50V 22P
C513, 514	ECEA1VPS4R7	35V 4.7U
C517	ECKR1H103ZF5	50V 0.01U
C520, 521	ECKR1H103ZF5	50V 0.01U
C601, 602	ECEA1VPS4R7	35V 4.7U
C603, 604	ECQP1271JZ	50V 270P
C605, 606	ECEA1CPS220	16V 22U
C607, 608	ECCR1H100K5	50V 10P
C609, 610	ECCD1H151K	50V 150P
C611, 612	ECKT1H223ZF	50V 0.022U
C613	ECEA1VU470	35V 47U
C614	ECEA1HU330	50V 33U

Ref. No.	Part No.	Values & Remarks
C615	ECEA2AU100	100V 10U
C616	ECEA2AN2R2SB	100V 2.2U
C617, 618	ECQM1H681KF3	50V 680P
C651	ECEA1HK2R2B	50V 2.2U
C701, 702	ECES71V822UZ	71V 8200U ⚠
C703	ECKR1H103ZF5	50V 0.01U ⚠
C704	ECEA1VU101B	35V 100U ⚠
C705	ECEA1CU101	16V 100U
C706	ECKR1H103ZF5	50V 0.01U
C709, 710	ECKR1H103ZF5	50V 0.01U ⚠
C711	ECEA1CU101	16V 100U
C712	ECEA1VU470	35V 47U ⚠
C713	ECEA0JU101B	6.3V 100U
C751	ECEA1CU102	16V 1000U
C752	ECEA1CU470	16V 47U
C753	ECKR1H103ZF5	50V 0.01U
C754	ECKR1H103ZF5	50V 0.01U ⚠
C755	ECBT1H221KB5	50V 220P
C756	ECEA1CPS220	16V 22U
C771	ECKR2H103ZU	500V 0.01U ⚠
C791	ECKWNS103ZV	500V 0.01U ⚠
C851, 852	ECEA0JU101B	6.3V 100U
C853, 854	ECFR1E104KR	25V 0.1U
C891	ECFR1E392KR	25V 3900P
C901, 902	ECEA0JU102	6.3V 1000U
C903	ECEA1HK010B	50V 1U
C905	ECKR1H331KB5	50V 330P
C906	ECEA0JU102	6.3V 1000U
C910	ECBT1E103ZF	25V 0.01U
C911-913	ECEA1HK3R3	50V 3.3U
C914	ECEA1VK100B	35V 10U
C915	ECEA1VU101B	35V 100U
C916	ECEA0JU102	6.3V 1000U
C919	ECEA1HK3R3	50V 3.3U
C922	ECKR1H331KB5	50V 330P
C924	ECKR1H103ZF5	50V 0.01U
C951	ECEA1CU470	16V 47U
C952	ECBT1H102KB5	50V 1000P
C953	ECQP1102JZ3	100V 1000P
C954	ECBT1H102KB5	50V 1000P
C955	ECEA1CU470	16V 47U
C956	ECBT1H102KB5	50V 1000P
C957	ECEA1EK3R3B	25V 3.3U
C958	ECEA1CK100B	16V 10U
C959	ECBT1H8R2JC5	50V 8.2P
C960	ECEA1EK3R3B	25V 3.3U
C971, 972	ECBT1H101KB5	50V 100P
C973	ECBT1H331KB5	50V 330P
C1001, 1002	ECKR1H103ZF5	50V 0.01U
C1003	ECEA1HU010	50V 1U
C1004	ECQM1H332KV3	50V 3300P
C1005	ECBT1H561KB5	50V 560P

Ref. No.	Part No.	Values & Remarks
C1006	ECQM1H104JZ	50V 0.1U
C1007	ECEA1CU470	16V 47U
C1008, 1009	ECFR1C104MDY	16V 0.1U
C1010	ECQM1H104JZ	50V 0.1U
C1011	ECQM1H332KV3	50V 3300P
C1012	ECBT1H561KB5	50V 560P
C1013	ECEA1HU010	50V 1U
C1014	ECQM1H123JZ	50V 0.012U
C1015	ECFR1E104KR	25V 0.1U
C1016	ECEA0JU101B	6.3V 100U
C1017	ECEA1CU100	16V 10U
C1018	ECQM1H472JZ	50V 4700P
C1019	ECQM1H273KV3	50V 0.027U
C1020	ECQM1H473JZ	50V 0.047U
C1021	ECEA1CU100	16V 10U
C1022	ECQM1H104JZ	50V 0.1U
C1023	ECQV1H334JZ3	50V 0.33U
C1024	ECEA1CU221	16V 220U
C1025	ECEA1CU470	16V 47U
C1026	ECQM1H562JZ	50V 5600P
C1027	ECEA1CU100	16V 10U
C1028, 1029	ECEA1HU010	50V 1U
C1030-1032	ECEA1EU3R3	25V 3.3U
C1033	ECEA1HU3R3	50V 3.3U
C1034, 1035	ECKR1H103ZF5	50V 0.01U
C1036-1038	ECBT1H181KB5	50V 180P
C1039	ECEA1CU100	16V 10U
C1040	ECEA1CU470	16V 47U
C1041	ECEA0JU220B	6.3V 22U
C1101, 1102	ECEA1HU3R3	50V 3.3U
C1103, 1104	ECBA1H681KB5	50V 680P
C1105, 1106	ECBT1H821KB5	50V 820P
C1107, 1108	ECEA1HU220	50V 22U
C1109, 1110	ECBT1H100J5	50V 10P
C1111	ECEA2AU100	100V 10U
C1112	ECEA1JU220	63V 22U
C1113, 1114	ECKT1H223ZF	50V 0.022U
C1115, 1116	ECEA1VU332	35V 3300U ⚠
C1117	ECKR2H103ZU	500V 0.01U ⚠
C1118	ECKR1H103ZF5	50V 0.01U
C1119	ECEA1HU3R3	50V 3.3U
C1120	ECEA1HU010	50V 1U
C2001, 2002	ECEA1CK470	16V 47U
C2003-2006	ECEA1EK3R3B	25V 3.3U
C2007, 2008	ECQV1H473JZ3	50V 0.047U
C2009, 2010	ECQP1681JZ3	100V 680P
C2011-2014	ECEA1CK470	16V 47U
C2015, 2016	ECEA1CK100B	16V 10U
C2017-2020	ECQP1101JZ3	100V 100P
C2021	ECEA1CK330	16V 33U
C2023, 2024	ECEA1CK470	16V 47U
C2025, 2026	ECEA1CK100B	16V 10U
C2027-2030	ECQP1101JZ3	100V 100P
C2031, 2032	ECEA1CK470	16V 47U
C2033, 2034	ECEA1CK100B	16V 10U
C2035-2038	ECQP1101JZ3	100V 100P
C2039, 2040	ECEA1CK470	16V 47U
C2041	ECEA1CK330	16V 33U
C2045, 2046	ECFR1E103KR	25V 0.01U
C2047, 2048	ECQM1H224JZ	50V 0.22U
C2049	ECEA1CK100B	16V 10U
C2050	ECBT1H330J5	50V 33P
C2050A	ECEA1CK100B	16V 10U
C2053	ECFR1E103KR	25V 0.01U
C2054	ECQM1H224JZ	50V 0.22U
C2057	ECEA1HPS2R2	50V 2.2U
C2059	ECEA1CK330	16V 33U
C2064	ECKR1H103ZF5	50V 0.01U
C2065-2068	ECBT1H330J5	50V 33P
C2069	ECKR1H103ZF5	50V 0.01U
C2071, 2072	ECKR1H103ZF5	50V 0.01U
C2074, 2075	ECBT1E103ZF	25V 0.01U
C2076-2079	ECBT1H101KB5	50V 100P
C2082-2087	ECKR1H103ZF5	50V 0.01U
C2088, 2089	ECBT1E103ZF	25V 0.01U
C2091	ECEA1HPS010	50V 1U
C2093-2098	ECQV1H104JZ3	50V 0.1U
C2099	ECEA1CK470	16V 47U
C2101, 2102	ECBT1E103ZF	25V 0.01U
C2103, 2104	ECBT1H101KB5	50V 100P
C2105-2108	ECFR1E123KR	25V 0.012U
C2109-2111	ECBT1E103ZF	25V 0.01U
C2112	ECBT1H101KB5	50V 100P

■ PACKING



Printed in Japan
H900603600 YY/TN