

JVC

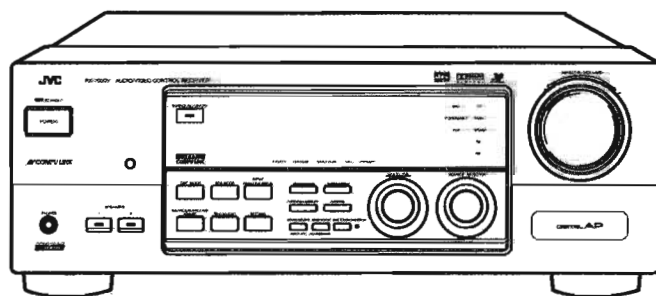
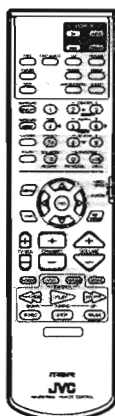
SERVICE MANUAL

AUDIO/VIDEO CONTROL RECEIVER

RX-7000VBK

Area Suffix

J U.S.A.
C Canada



DIGITAL AP

**TEXT
COMPU LINK**

AV COMPU LINK

**COMPU LINK
/// Remote ///**

**3D
3D-PHONIC**

**DIGITAL
dts
SURROUND**

**DOLBY
DIGITAL**

Contents

Safety precautions	1-2	Block diagrams	2-23
Instructions	1-3~16	Standard schematic diagrams --	2-27
Disassembly method	2-1	Printed circuit boards	2-36~40
Adjustment method	2-7	Parts list	3-1~20
Description of major ICs	2-8		

Safety Precautions

1. This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (\triangle) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

5. Leakage current check (Electrical shock hazard testing)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

Do not use a line isolation transformer during this check.

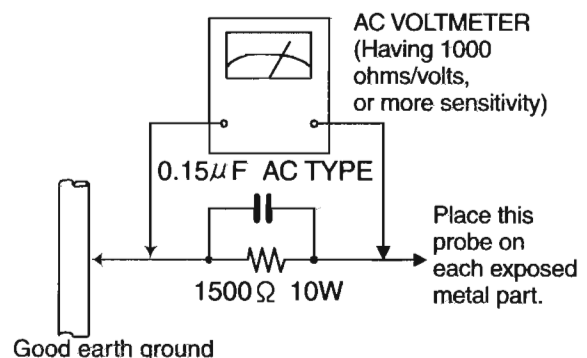
- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.)

- Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground.

Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. voltage measured Any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

⚠ CAUTION Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of performing repair of this system.

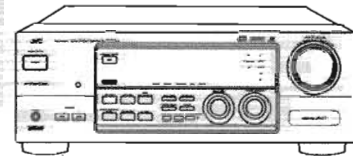
Instructions

JVC



AUDIO/VIDEO CONTROL RECEIVER RX-7000VBK

JVC
VICTOR COMPANY OF JAPAN, LIMITED



- DIGITAL AP
- TEXT COMPU LINK
- AV COMPU LINK
- COMPU LINK III Remote III
- 30 HI-FIDELITY
- DIGITAL DTS SURROUND
- DOLBY DIGITAL



INSTRUCTIONS

For Customer Use:
Enter below the Model No. and Serial No., which are applied either on the rear pattern or side of the cabinet. Retain this information for future reference.
Model No.:
Serial No.:

LVT0386-001A (J)

EN

Y100FHMEDYUEN

Warnings, Cautions and Others

CAUTION
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT REMOVE COVERS OR PANELS. NO USER SERVICEABLE PARTS INSIDE. REFER REPAIRS TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of unshielded "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

- CAUTION**
To reduce the risk of electrical shock, fire, etc.:
1. Do not remove screws, covers or cabinet.
 2. Do not expose this appliance to rain or moisture.

Caution — POWER SWITCH
Disconnect the mains plug to shut the power off completely. The POWER switch in any position does not disconnect the mains line. The power cable remains connected.

For U.S.A.
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC's Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

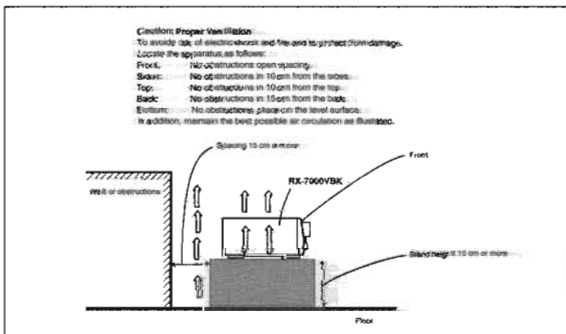
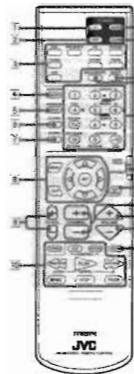
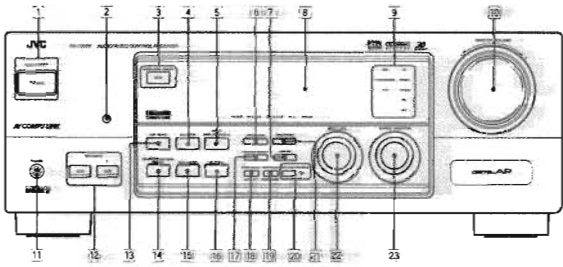


Table of Contents

Parts Identification	2	Using the DSP Modes	21
Getting Started	3	Available DSP Modes According to the Speaker Arrangement	23
Before Installation	3	Adjusting the HI-FIDELITY Modes	24
Checking the Supplied Accessories	3	Adjusting the DAP Modes	24
Connecting the FM and AM Antennas	3	Adjusting the Surround Modes	25
Connecting the Speakers	4	Activating the DSP Modes	27
Connecting Audio/Video Components	5	Using the DVD MULTI Playback Mode	28
Connecting the Power Cord	9	Activating the DVD MULTI Playback Mode	29
Printing & Retain in the Remote Control	9	Using the On-Screen Menus	30
Basic Operations	10	Tuning the Source to Play	30
Tuning the Power On and Off (Standby)	10	Selecting Different Sources by Picture and Sound	30
Selecting the Source to Play	10	Selecting the DSP Modes	30
Adjusting the Volume	11	Selecting the Audio or Digital Input Mode	30
Selecting the Front Speakers	11	Adjusting the Front Speaker Output Balance	31
Muting the Sound	12	Reinitializing the Bass	31
Reinitializing the Bass	12	Adjusting the Input Signal	31
Adjusting the Input Signal	12	Adjusting the Subwoofer Output Level	31
Adjusting the Subwoofer Output Level	12	Adjusting the DSP Modes	31
Basic Settings	13	Adjusting the DVD MULTI Playback Mode	32
Recording a Source	13	Selecting Your Favorite SEA Mode	32
Adjusting the Front Speaker Output Balance	13	Changing Your Own SEA Mode	32
Changing the Source Name	13	Operating the Timer	33
Changing the Subwoofer Information	14	Storing the Preset Stations	34
Setting the Speakers for the DSP Modes	14	Assigning Names to Preset Stations	34
Digital Input (DIGITAL IN) Terminal Setting	16	COMPU LINK Remote Control System	35
Selecting the Analog or Digital Input Mode	16	TEXT COMPU LINK Remote Control System	35
Showing the Text Information on the Display	17	Showing the Disc Information on the TV Screen	37
Setting the Basic Settings and Adjustments — One Touch Operation	17	Searching for a Disc (only for the CD player)	38
Using the Sleep Timer	17	Showing the Disc Information	39
Receiving Radio Broadcasts	18	AV COMPU LINK Remote Control System	41
Tuning in Stations Manually	18	Operating JVC's Audio/Video Components	43
Using Preset Tuning	18	Operating Audio Components	43
Selecting the FM Reception Mode	19	Operating Video Components	45
Assigning Names to Preset Stations	19	Operating Other Manufacturers' Video Equipment	46
Using the SEA Modes	20	Troubleshooting	48
Selecting Your Favorite SEA Mode	20	Specifications	48
Changing Your Own SEA Mode	20		

Parts Identification

Become familiar with the buttons and controls on the receiver before use. Refer to the pages in parentheses for details.



Remote Control

- 1 TV POWER button (45, 46)
- 2 VCR POWER button (45, 47)
- 3 Silent selecting button (19)
- 4 DVD, DVD MULTI, CD, TAPE/MD, TV/VIDEO, PHONO, FRONT VCR
- 5 SURROUND MODE button (23, 27)
- 6 SURROUND MODE button (23, 26)
- 7 CD-OSC button (44)
- 8 SOUND button (24, 26)
- 9 On-screen operation button (26, 27)
- 10 MENU, SET, EXIT, etc. (2, 4, 5)
- 11 TV VOL. (4)
- 12 Operating buttons for audio/video components (43-47)
- 13 ALSCO POWER button (18)
- 14 CANCELLED POWER button (47)
- 15 SLEEP button (17)
- 16 ANALOG/DIGITAL button (16)
- 17 10 keys for selecting preset channels (19)
- 18 10 keys for adjusting sound CD (24-27, 28)
- 19 10 keys for operating audio/video components (43-47)
- 20 Remote control mode selector (19, 47, 48)
- 21 RECALL DISPLAY button (37)
- 22 CHANNEL +/- buttons (45-47)
- 23 VOLUME +/- buttons (11)
- 24 MUTE button (12)

Front Panel

- 1 POWER button and STANDBY lamp (10)
- 2 Remote sensor (9)
- 3 SURROUND ON/OFF button and lamp (23, 27)
- 4 SEA button (20)
- 5 INPUT ANALOG/DIGITAL button (16)
- 6 FRONT TUNING button (18)*
- 7 FM MODE button (19)
- 8 Display (10)
- 9 Source lamps (19)
- 10 MASTER VOLUME control (13)
- 11 PHONO jack (12)
- 12 SPEAKERS 1/2 button and lamp (11)
- 13 DISP MODE button (24)
- 14 BALANCE/SURROUND ADJUST button (11, 15, 26)*
- 15 SEA ADJUST button (26)*
- 16 SETTING button (14-17)*
- 17 TUNER/SEA MEMORY button (18-20)
- 18 SOUND SELECTOR/T. ATT. button (11, 12)
- 19 BASS BOOST/SOURCE NAME button (12, 15)
- 20 ONE TOUCH OPERATION button and lamp (17)
- 21 TUNER PRESET button (19)*
- 22 MULTISOURCE control
- 23 SOURCE SELECTOR control (13)

*When this control actually does depends on which function you are trying to adjust. Before using this control, select the function by pressing one of the buttons marked with *.

Getting Started

This section explains how to connect audio/video components and speakers to the receiver, and how to connect the power supply.

Before Installation

General

- Do not touch your hands are dry.
- Turn the power off to all components.
- Read the manuals supplied with the components you are going to connect.

Locations

- Install the receiver in a location that is level and protected from moisture.
- The temperature around the receiver must be between -5° C and 35° C (23° F and 95° F).
- Make sure there is good ventilation around the receiver. Poor ventilation could cause overheating and damage the receiver.

Handling the receiver

- Do not insert any metal object into the receiver.
- Do not disassemble the receiver or remove screws, covers, or cabinet.
- Do not expose the receiver to rain or moisture.

Checking the Supplied Accessories

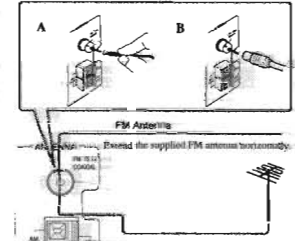
Check to be sure you have all of the following items, which are supplied with the receiver. The number in the parentheses indicates quantity of the pieces supplied.

- Remote Control (1)
- Batteries (2)
- AM Loop Antenna (1)
- FM Antenna (1)

If anything is missing, contact your dealer immediately.

Connecting the FM and AM Antennas

FM Antenna Connections



A. Using the Supplied FM Antenna

The FM antenna provided can be connected to the FM 75Ω COAXIAL terminal as a temporary measure.

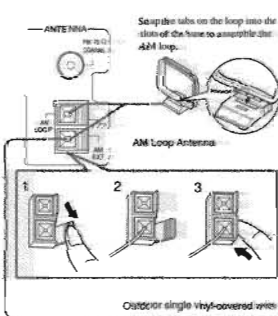
B. Using the Standard Type Connector (Not Supplied)

A standard type connector should be connected to the FM 75Ω COAXIAL terminal.

Note:

If reception is poor, connect the outdoor antenna directly attaching a 75Ω coaxial cable (the kind with a round wire going to an outdoor antenna) to the supplied FM antenna.

AM Antenna Connections



Turn the loop until you have the best reception.

- Notes:**
- Make outdoor antenna connections to non-safety earth terminals, separating cords and power cord. This could cause poor reception.
 - If reception is poor, connect an outdoor single vinyl-covered wire to the AM EXT terminal. (Keep the AM-loop antenna connected.)

Connecting the Speakers

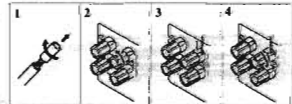
- You can connect the following speakers.
- Two pairs of front speakers to produce normal stereo effect.
 - One pair of rear speakers to enjoy the surround effect.
 - One center speaker to produce more effective surround effect to any front home theater system.
 - One subwoofer to enhance the bass.

IMPORTANT: After connecting the speakers listed above, set the speaker setting information property to obtain the best possible DSP effect. For details, see page 14.

For each speaker (except for a subwoofer), connect the (+) and (-) terminals on the rear panel to the (+) and (-) terminals marked on the speakers. For connecting a subwoofer, see page 5.

CAUTION: Use speakers with the SPEAKER IMPEDANCE indicated on the speaker terminals.

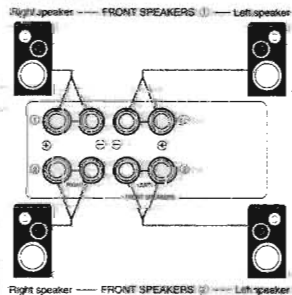
Basic connecting procedure



- 1 Cut, twist and remove the insulation at the end of each speaker signal cable (not supplied).
- 2 Turn the knob counterclockwise.
- 3 Insert the speaker signal cable.
- 4 Turn the knob clockwise.

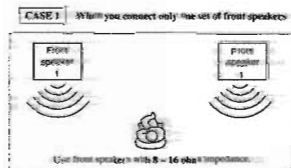
Connecting the front speakers

You can connect two pairs of front speakers to the FRONT SPEAKERS (+) terminals, and another pair to the FRONT SPEAKERS (-) terminals.

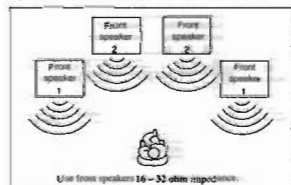


About the speaker impedance

The required speaker impedance of the front speakers does differ depending on whether both the FRONT SPEAKERS (+) and FRONT SPEAKERS (-) terminals are used or only one of them is used.

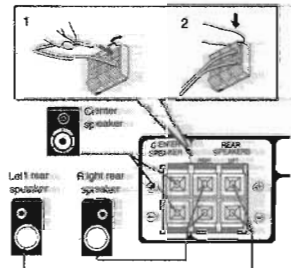


Case 2: When you connect two sets of front speakers



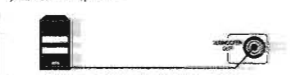
Connecting the rear and center speakers

Connect your speakers to the REAR SPEAKERS (+) terminals and a center speaker to the CENTER SPEAKER (+) terminal.



Connecting the subwoofer speaker

You can enhance the bass by connecting a subwoofer. Connect the input jack of a powered subwoofer to the SUBWOOFER OUT jack on the rear panel, using a cable with RCA pin plugs (not supplied).



Connecting Audio/Video Components

You can connect the following audio/video components to this receiver. Refer also to the manuals supplied with your components.

Audio Components	Video Components
• Turntable*	• DVD player*
• CD player*	• TV*
• Cassette deck or MD recorder*	• DRS opt.*
	• VCR*

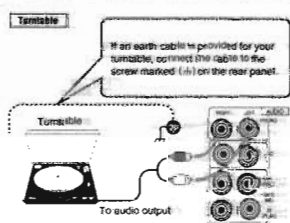
*You can connect these components using the methods described in "Analog connections" (Analog) or in "Digital connections" (see page 8).

Analog connections

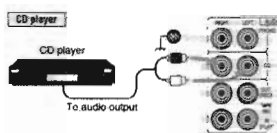
Audio connections
Use the cables with RCA pin plugs (not supplied). Connect the white plug to the audio left jack, and the red plug to the audio right jack.

CAUTION:

If you connect a sound-enhancing device such as a graphic equalizer between the source components and the receiver, the sound output through this speaker may be distorted.



Note: Any pin devices connecting to the receiver must be connected to the receiver through a commercial head amplifier or amplifier transformer. Direct connection may result in insufficient use.

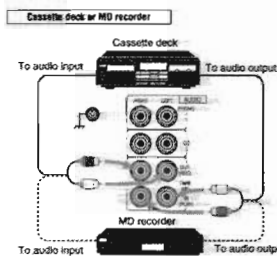


Video component connections

Use the cables with RCA pin plugs (not supplied). Connect the white plug to the audio left jack, the red plug to the audio right jack, and the yellow plug to the video jack. If your video components have S-video (Y/C-separation) terminals, connect them using S-video cables (not supplied). Connecting these video components through the S-video input/output terminals will give you better picture playback or recording quality.

IMPORTANT:

This receiver is equipped with both the composite video and S-video input/output terminals for connecting video components. You do not have to connect both the composite video and S-video terminals. However, remember that the video signals from the composite video input terminals are output only through the composite video output terminals, while the ones from the S-video input terminals are output only through the S-video output terminals. Therefore, if a recording video component and a playing video component are connected to the receiver through the different video terminals, you cannot record the picture from the playing component on the recording component. In addition, if the TV and a playing video component are connected to the receiver through the different video terminals, you cannot view the playback picture from the playing component on the TV.

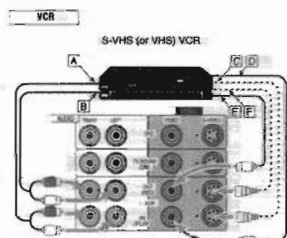


Note:

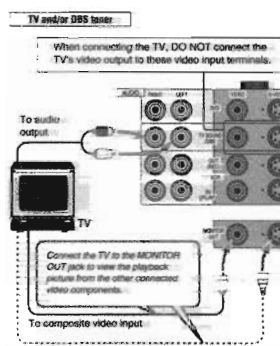
You can connect either a cassette deck or an MD recorder to the TAPE/MD jacks. When connecting an MD recorder to the TAPE/MD jacks, change the source name, which will be shown on the display when selected as the source, to "MD." See page 13 for details.

If your audio components have a COMPU LINK or TEXT COMPU LINK jack:

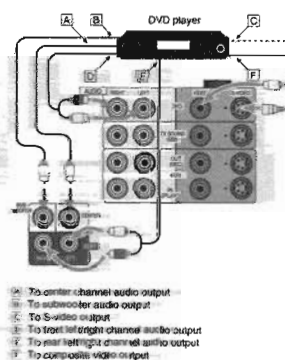
- See also page 35 for detailed information about the connection and the COMPU LINK remote control system.
- See also page 36 for detailed information about the connection and the TEXT COMPU LINK remote control system.



- A To left/right channel audio output
- B To left/right channel audio input
- C To S-video output
- D To composite video output
- E To composite video input
- F To S-video input



When you connect the DVD player with its analog discrete output (5.1 CH reproduction) jacks:



Note:

When connecting the DBS tuner to the TV SOUND/DBS jacks, change the source name, which will be shown on the display when selected as the source, to "DBS." See page 13 for details.

Digital connections

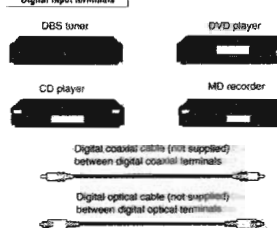
This receiver is equipped with three DIGITAL IN terminals—one digital coaxial terminal and two digital optical terminals—and one DIGITAL OUT terminal. You can connect any digital equipment such as—

- DBS tuner,
- Digital TV broadcast tuner,
- DVD player,
- CD player, and
- MD recorder.

IMPORTANT:

- When connecting the DVD player, digital TV broadcast tuner or DBS tuner using the digital terminals, you also need to connect it to the video jack (either composite video terminal or S-video terminal) on the rear. Without connecting it to the video jack, you can view no playback picture.
- After connecting the components using the DIGITAL IN terminals, set the following correctly if necessary.
 - Set the digital input (DIGITAL IN) terminal setting correctly. For details, see "Digital Input (DIGITAL IN) Terminal Setting" on page 16.
 - Select the digital input mode correctly. For details, see "Selecting the Analog or Digital Input Mode" on page 16.

Digital input terminals



When the component has a digital coaxial output terminal, connect it to the DIGITAL 1 (DVD) terminal, using the digital coaxial cable (not supplied).

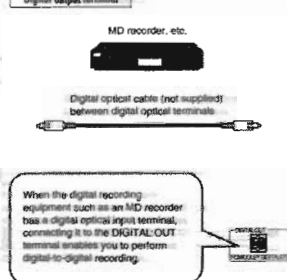
When the component has a digital optical output terminal, connect it to the DIGITAL 2 (CD), or DIGITAL 3 (TV) terminal, using the digital optical cable (not supplied).

Before connecting a digital optical cable, unplug the protective plug.

Notes:

- When shipped from the factory, the DIGITAL IN terminals have been set for use with the following components.
 - DIGITAL 1 (coaxial): For DVD player
 - DIGITAL 2 (optical): For CD player
 - DIGITAL 3 (optical): For digital TV broadcast tuner
- When you want to operate the CD player or MD recorder using the COMPU LINK remote control system, connect the target component also as described in "Analog connections" (see page 5 and 6).
- When you want to operate the DVD player using the AV COMPU LINK remote control system, connect the DVD player also as described in "Analog connections" (see page 7).

Digital output terminal



Connecting the Power Cord

Before plugging the receiver into an AC outlet, make sure that all connections have been made.

Plug the power cord into an AC outlet.



Keep the power cord away from the connecting cables and the antenna. The power cord may cause noise or screen interference. We recommend that you use a twisted cable to connect the antenna since it is well-shielded against interference.

Note:

The preset settings such as preset channels and sound adjustments may be reset in a few days in the following cases:

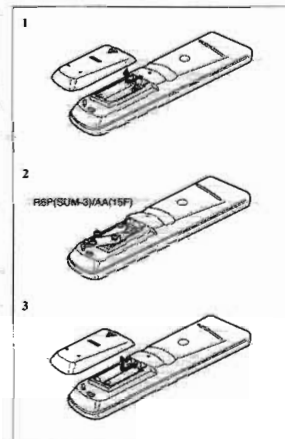
- When you unplug the power cord.
- When a power failure occurs.

CAUTIONS:

- Do not touch the power cord with wet hands.
- Do not pull on the power cord to unplug the cord. When unplugging the cord, always grasp the plug so as not to damage the cord.

Putting Batteries in the Remote Control

Before using the remote control, put two supplied batteries (see "When using the remote control, see the remote control" directly in this manual) into the receiver.



1. On the back of the remote control, remove the battery cover.
2. Insert batteries. Make sure to match the polarity: (+) to (+).
3. Replace the cover.

If the range or effectiveness of the remote control decreases, replace the batteries. Use two R6P(SUM-3)/AA(15F) type dry-cell batteries.

CAUTION:

- Follow these precautions to avoid leaking or cracking cells:
- Place batteries in the remote control so they match the polarity: (+) to (+).
 - Use the correct type of batteries. Batteries that look similar may differ in voltage.
 - Always replace both batteries at the same time.
 - Do not expose batteries to heat or flame.

Basic Operations

The following operations are commonly used when you play any audio source.

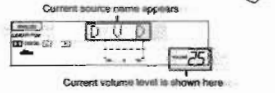
IMPORTANT:

When using the remote control, check to see if its remote control mode selector is set to the correct position.
To operate this receiver, set it to "AUDIO/TW VCR".

Turning the Power On and Off (Standby)

On the front panel:

To turn on the power, press POWER.
The STANDBY lamp goes off. The name of the current source (or station, frequency) appears on the display.



Current source name appears.

To turn off the power (into standby mode), press POWER again.

The STANDBY lamp lights up. A small amount of power is consumed in standby mode. To turn the power off completely, unplug the AC power cord.

From the remote control:

To turn on the power, press AUDIO POWER.

The STANDBY lamp goes off. The name of the current source (or station, frequency) appears on the display.

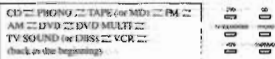
To turn off the power (into standby mode), press AUDIO POWER again. The STANDBY lamp lights up.

Selecting the Source to Play

On the front panel:

Turn SOURCE SELECTOR until the source name you want appears on the display.

As you turn the selector, the source changes as follows:

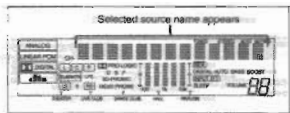


The selected source lamp also lights up.

The DVD lamp lights up both for "DVD" and "DVD MULTI".

From the remote control:

Press one of the source selecting buttons.



DVD Select the DVD player.

DVD MULTI Select the DVD player for viewing the digital video disc using the analog discrete-output mode (5.1CH reproducer) on the DVD player.

CD Select the CD player.

TAPE/MD Select the cassette deck for the MD recorder.

TV/DBS Select TV sounds or the DBS tuner.

PHONO Select the turntable.

FM/AM Select an FM or AM broadcast.

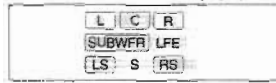
VCR Select the video component connected to the VCR jack.

Notes:
• When connecting an MD recorder (to the TAPE/MD jack), and a DBS tuner (to the TV SOUND/DBS jack), change the source name shown on the display. For details, see page 43.
• When you press one of the source selecting buttons on the remote control marked above with an asterisk (*), the receiver automatically turns on.

Signal and speaker indicators on the display

The signal indicators light up to indicate the incoming channel signals.

- Only the indicators for the incoming signals light up.
- The frame of the signal indicator changes for "LFE" and "S". Lights up if the corresponding speaker is set to "LARGE" or "SMALL" (for subwoofer, "YES").
- The frames of "L" and "R" indicators always light up.



- L Lights up when the left channel signal comes in.
- C Lights up when the center channel signal comes in.
- R Lights up when the right channel signal comes in.
- SUBWFR Lights up when the subwoofer signal comes in.
- LFE Lights up when the left rear channel signal comes in.
- LS Lights up when the left surround channel signal comes in.
- S Lights up when the surround rear channel signal comes in.
- RS Lights up when the right surround channel signal comes in.

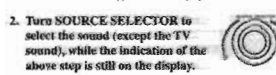
Notes:
• When "SUBWOOFER" is set to "YES", SUBWFR lights up.
• When you select "DVD MULTI" all the signal indicators except "S" light up.

Selecting different sources for picture and sound

You can select picture from a video component while listening to sound from another component.

On the front panel:

- Press SOUND SELECT (INPUT ATT.) briefly while viewing the picture from a video component such as the VCR or DVD player, etc. "SOUND SELECT" appears on the display.



From the remote control:

Press one of the audio source selecting buttons (CD, TAPE/MD, PHONO, FM/AM, TV/DBS), while viewing the picture from a video component such as the VCR or DVD player, etc.

Notes:
• Once you have selected a video source, pictures of the selected source are sent to the TV until you select another video source.
• The TV/DBS button only works for selecting "DBS" as the source, but not for selecting "TV SOUND". When you use the DBS tuner, change the source name correctly (see page 43).

Adjusting the Volume

On the front panel:

To increase the volume, turn MASTER VOLUME clockwise.

To decrease the volume, turn it counterclockwise.

- When you turn MASTER VOLUME rapidly, the volume level also changes rapidly.
- When you turn MASTER VOLUME slowly, the volume level also changes slowly.

From the remote control:
To increase the volume, press VOLUME+.

To decrease the volume, press VOLUME-.

CAUTION:
Always set the volume to the minimum before starting any source. If the volume is set at its high level, the sudden onset of sound energy can permanently damage your hearing and/or cause your eardrums.

Note:

The volume level can be adjusted within the range of "0" (minimum) to "90" (maximum).

Selecting the Front Speakers

On the front panel ONLY:

When you have connected two pairs of the front speakers, you can select which to use.

From the remote control:

Press SPEAKERS 1 or SPEAKERS 2 to select the speaker to use.

Each time you press the button, the lamp on the respective button turns on and off. When the lamp on either button lights up, the respective speaker is activated.

Note:
If you use any of the DSP modes other than the DSP mode with both front speakers activated, the speakers connected to the FRONT SPEAKERS 1 terminate and deactivate.

Listening only with headphones

You can listen with the head phones without deactivating both pairs of speakers. However, if you want to use the HEADPHONE mode (see below), you must use both pairs of speakers.

- Connect a pair of headphones to the PHONES jack on the front panel.
- Press SPEAKERS 1 and/or 2 so that no lamps on the buttons are activated.

This activates the surround mode in DSP mode currently selected, and activates the HEADPHONE mode (see below).

* The HEADPHONE indicator lights up on the display.

HEADPHONE mode:

This mode can reproduce the LFE channel signals, mixing them with the front channel signals. So you will not miss the subwoofer sounds even if you listen to a source using the headphones.

Note:
While in the headphones mode, you cannot use any other DSP modes (see page 21).

Activating the speaker cancels the headphones mode and turns on the DSP mode previously selected.

CAUTION:

Be sure to turn down the volume before connecting to pulling the headphones, as high volume can damage both the headphones and your hearing.

Muting the Sound

From the remote control ONLY:
Press MUTE to mute the sound through all speakers and headphones connected.

"MUTE" appears on the display and the volume turns off (the volume level indicator goes off).

To return the sound, press MUTE again so that "OFF" appears on the display.

Turning MASTER VOLUME on the front panel or pressing VOLUME +/- on the remote control also restores the sound.

Reinforcing the Bass

You can boost the bass level.

On the front panel ONLY:

Press BASS BOOST (SOURCE NAME) briefly to select the bass boost function.

- Each time you press the button, the bass boost function turns on ("BASS BOOST ON") and off ("BASS BOOST OFF").
- Select "BASS BOOST ON" to activate the bass boost function.
- The BASS BOOST indicator lights up on the display.
- Select "BASS BOOST OFF" to deactivate it.
- The indicator goes off.

Note:
This function affects the front speaker sounds only.

Attenuating the Input Signal

When the signal level of the playing source is too high, the sound will be distorted. If this happens, you need to attenuate the input signal to prevent the sound distortion.

On the front panel ONLY:

Press and hold INPUT ATT. (SOUND SELECT) so that the ATT indicator lights up on the display.

Each time you press and hold the button, the Input Attenuator mode turns on ("INPUT ATT. ON") or off ("INPUT NORMAL").

Notes:

This function is available only for the source mode using the analog terminals.

This function takes effect when the DSP mode is in-use.

When selecting "DVD MULTI" as the source, the effect does not work.

Adjusting the Subwoofer Output Level

You can adjust the subwoofer output level if you have selected "YES" for the "SUBWOOFER" (see page 24).

Once it has been adjusted, the receiver memorizes the adjustment.

Before you start, remember—

- There is no restriction in doing the following steps. If the setting is successful, the you finish, start from step 1 again.
- When the front speakers are all deactivated, the subwoofer level cannot be adjusted.

On the front panel:

- Press BALANCE/SURROUND ADJUST repeatedly until "SUBWFR LEVEL" appears on the display. The display changes to show the current setting.

2. Turn MULTI JOG to adjust the subwoofer output level (-10 dB to +10 dB).

From the remote control:

- Press SOUND. The 10 keys are activated for sound adjustments.

- Press SUBWOOFER +/- to adjust the subwoofer output level (-10 dB to +10 dB).

Basic Settings

Some of the following settings are required after connecting and positioning your speakers in your listening room, while others will make operations easier.

IMPORTANT:

When using the remote control, check to see if its remote control mode selector is set to the correct position.
To operate this receiver, set it to "AUDIO/TW VCR".

Recording a Source

You can record any audio source through the receiver to—

- the cassette deck (for MD recorder) connected to the TAPE/MD jacks, and
- the VCR (connected to the VCR jack).

For digital-to-digital recording:

You can record the currently-selected digital input through the receiver to a digital recording device connected to the DIGITAL OUT terminal.

Notes:

- Analog-to-digital and digital-to-analog recordings are not possible.
- If an output volume level, Bass Boost (see page 25), SFE (see page 25), and DSP mode (see page 21) cannot affect the recording.
- If you test tone signal (see page 25, 26) does not come out through the DIGITAL OUT terminal.

Adjusting the Front Speaker Output Balance

If the sound you hear from one of the front right and left speakers is unequal, you can adjust your speaker output balance.

Before you start, remember—

- There is no restriction in doing the following steps. If the setting is successful, the you finish, start from step 1 again.

On the front panel ONLY:

- Press BALANCE/SURROUND ADJUST repeatedly until "L/R BALANCE" appears on the display. The display changes to show the current setting.

2. Turn MULTI JOG to adjust the front speaker output balance.

2. Turn MULTI JOG to adjust the balance:

Turning a clockwise decreases the left channel output.

Turning it counterclockwise increases the right channel output.

Changing the Source Name

When you have connected an MD recorder to the TAPE/MD jacks of the DBS tuner (to the TV SOUND/DBS jacks on the rear panel), change the source name which is shown on the display when you select the MD recorder (to DBS) on the source.

On the front panel ONLY:

When changing the source name from "TAPE" to "MD":

- Turn SOURCE SELECTOR until "LAPE" appears.

When changing the source name from "TV SOUND" to "DBS":

- Turn SOURCE SELECTOR until "TV SOUND" appears.

2. Press and hold SOURCE NAME (BASS BOOST) until "ASSGN. MD" or "ASSGN. DBS" appears on the display.

To change the source name to "TAPE" or "TV SOUND", repeat the same procedure above.

Note:
If you change the source name, you can still use the current operation. However, there may be some inconveniences.

- "TAPE" or "TV SOUND" will appear on the display when you select the MD recorder or DBS tuner.
- You cannot use the digital input when you select the MD recorder or DBS tuner.
- You cannot use the COM2/LSN, remote control system (see page 27) to operate the MD recorder.

Setting the Subwoofer Information

Register whether or not you have connected a subwoofer... Before you start, remember... There is a time limit in doing the following steps...

- On the front panel ONLY: 1. Press SETTING repeatedly until "SUBWOOFER" appears on the display. 2. Turn MULTI JOG to select whether you have connected a subwoofer or not.

Setting the Speakers for the DSP Modes

To obtain the best possible surround sound of the DSP modes, you have to register the information about the speakers arrangement after all connections are completed.

Before you start, remember... There is a time limit in doing the following steps...

- Front, Center, and Rear Speaker Setting: Register the sizes of all the connected speakers... On the front panel ONLY: 1. Press SETTING repeatedly until "FRONT SPK", "CENTER SPK", and "REAR SPK" appears on the display. 2. Turn MULTI JOG to select the appropriate item about the speaker selected in the above step.

3. Repeat steps 1 and 2 to select the appropriate items for the other speakers.

Notes: Keep the following comment in mind as reference when adjusting... Center Delay Time Setting: Register the delay time of the sound from the center speaker...

On the front panel ONLY: 1. Press SETTING repeatedly until "CENTER DELAY" appears on the display.

2. Turn MULTI JOG to select the delay time of the center speaker output.

Notes: Center delay time setting is not valid for the DVD MULTI playback mode... Rear Delay Time Setting: Register the delay time of the sound from the rear speakers...

On the front panel ONLY: 1. Press SETTING repeatedly until "REAR DELAY" appears on the display.

2. Turn MULTI JOG to select the appropriate item about the speaker selected in the above step.

2. Turn MULTI JOG to select the delay time of the rear speaker output.

Notes: Turn it clockwise to increase the delay time from 0 msec... Turn it counterclockwise to decrease the delay time from 15 msec...

Crossover Frequency Setting

Small speakers cannot reproduce the bass sound very well... To use this function properly, you need to set the crossover frequency level according to the size of the small speaker connected.

On the front panel ONLY: 1. Press SETTING repeatedly until "CROSSOVER FRQ" (Crossover Frequency) appears on the display.

2. Turn MULTI JOG to select the crossover frequency level according to the size of the small speaker connected.

Notes: Select this when the cone speaker unit built in the speaker is about 4 1/2 inches (12 cm)... Select this when the cone speaker unit built in the speaker is about 3 1/2 inches (9 cm).

Low Frequency Effect Attenuator Setting

If the bass sound is distorted while playing back a source using Dolby Digital or DTS Digital Surround, follow the procedure below.

On the front panel ONLY: 1. Press SETTING repeatedly until "LFE ATT" (Low Frequency Effect Attenuator) appears on the display.

2. Turn MULTI JOG to select the low frequency effect attenuator level.

Notes: As you turn it, the display changes to show the following: 0dB, 10dB, 20dB, 30dB, 40dB, 50dB, 60dB, 70dB, 80dB, 90dB, 100dB.

Notes: Low frequency effect attenuator setting is not valid for the DVD MULTI playback mode.

Dynamic Range Compression Setting

You can compress the dynamic range (difference between maximum and minimum sound) of the reproduced sound. This is useful when enjoying surround sound at night.

On the front panel ONLY: 1. Press SETTING repeatedly until "D. RANGE COMP" (Dynamic Range Compression) appears on the display.

2. Turn MULTI JOG to select the appropriate item about the compression level.

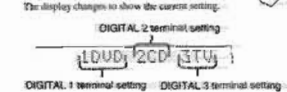
Notes: Select this when you want to enjoy surround with the full dynamic range... Select this when you want to reduce the dynamic range a little (Factory setting).

Digital Input [DIGITAL IN] Terminal Setting

When you use the digital input terminals, you have to register what components are connected to which terminals (DIGITAL IN 1/2/3).

Before you start, remember... There is a time limit in doing the following steps...

On the front panel ONLY: 1. Press SETTING repeatedly until "DIGITAL IN" appears on the display.



2. Turn MULTI JOG to select the appropriate digital terminal setting.

- 1 DVD 2 CD 3 TV (or DBS)
1 DVD 2 CD 3 MD
1 DVD 2 MD 3 TV (or DBS)
1 CD 2 DVD 3 TV (or DBS)
1 CD 2 DVD 3 MD
1 CD 2 MD 3 TV (or DBS)
1 TV (or DBS) 2 CD 3 DVD
1 TV (or DBS) 2 CD 3 MD
1 TV (or DBS) 2 DVD 3 MD
1 MD 2 CD 3 TV (or DBS)
1 MD 2 CD 3 DVD
1 MD 2 DVD 3 TV (or DBS)

Notes: When shipped from the factory, the DIGITAL IN terminals can be used as the digital input for the following components...

Selecting the Analog or Digital Input Mode

When you have connected some digital source components using the digital terminals (see page 8), you need to change the input mode to the appropriate digital input mode.

Before you start, remember... The digital input (DIGITAL IN) terminal setting should be correctly done for the sources you want to select the digital input mode for.

On the front panel: 1. Turn SOURCE SELECTOR until the source (CD, MD, TV SOUND, DBS, or DVD) for which you want to change the input mode appears on the display.

2. Press INPUT ANALOG/DIGITAL repeatedly until the digital input mode you want appears on the display.

Notes: Each time you press the button, the input mode changes as follows: ANALOG, AUTO/PCM, DTS, DOLBY DIGITAL.

From the remote control: 1. Press the source selecting button (CD, TAPE/MD, TV/DBS, or DVD) for which you want to change the input mode.

2. Press ANALOG/DIGITAL to change the input mode.

Notes: Among the sources listed above, you can select the digital input only for the sources which you have selected the digital input terminals for.

Notes: Turn the volume down while watching or listening to multi-sound audio recorded with Dolby Digital or DTS Digital Surround.

Showing the Text Information on the Display

When you have connected an MD recorder or CD player equipped with TEXT COMPULINK remote control system (see page 36), you can show the text information, such as disc title or track title, on the display of this receiver.

Before you start, remember... There is a time limit in doing the following steps...

On the front panel only: 1. Press SETTING repeatedly until "EL DISPLAY" appears on the display.

2. Turn MULTI JOG to select either the source name or the text information to be shown on the display.

Notes: NORMAL: Source name appears during play. TEXT: Text information appears during play.

Storing the Basic Settings and Adjustments — One Touch Operation

JIVE's One Touch Operation function is used to assign and store different sound settings for each different playing source.

- The following can be stored for each source: Volume level, Bass boost, Input attenuator mode, Subwoofer output level, Bass mix, BASS modes, DSP modes, 3D PHONIC mode settings, DTS mode settings, Surround mode settings, DVD MULTI playback mode settings.

On the front panel ONLY: 1. Press ONE TOUCH OPERATION.

2. Adjust the sound using the functions listed above.

To recall the sound settings: Press ONE TOUCH OPERATION so that the lamp goes off.

To cancel the One Touch Operation function: Press ONE TOUCH OPERATION so that the lamp goes off.

Notes: If the source is FM or AM, you can assign a different setting for each band.

Using the Sleep Timer

Using the Sleep Timer, you can fall asleep to music and have the receiver shut off by itself rather than play all night.

From the remote control ONLY: Press SLEEP repeatedly. The SLEEP indicator lights up on the display.

Notes: The receiver turns off automatically. You can change the time (ranging until the shut-off time plus SLEEP mode).

To cancel the Sleep Timer: Press SLEEP repeatedly until "SLEEP Obtain" appears on the display.

Receiving Radio Broadcasts

You can browse through all the stations or use the preset function to go immediately to a particular station.

IMPORTANT:

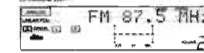
When using the remote control, check to see if its remote control mode selector is set to the correct position. To operate this receiver, set it to "AUDIO/TV/VCR".



Tuning in Stations Manually

On the front panel:

1. Turn SOURCE SELECTOR to select the band (FM or AM). The last received station of the selected band is tuned in.



2. Press FM/AM TUNING.



3. Turn MULTI JOG until you find the frequency you want.



- Turning it clockwise increases the frequency.
- Turning it counterclockwise decreases the frequency.
- When you turn MULTI JOG quickly, the frequency keeps changing until a station is tuned in.

From the remote control:

1. Press FM/AM to select the band.



Each time you press the button, the band alternates between FM and AM.

2. Press TUNING UP or TUNING DOWN repeatedly until you find the frequency you want.



When you hold the button (and release it), the frequency keeps changing until a station is tuned in.

Note:

When a station of sufficient signal strength is tuned in, the TUNED indicator lights up on the display. When an FM stereo program is received, the STEREO indicator also lights up.

Using Preset Tuning

Once a station is assigned to a channel number, the station can be quickly tuned. You can preset up to 30 FM and 15 AM stations.

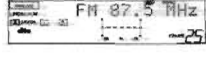
To store the preset stations

Before you start, remember...

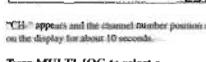
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

On the front panel ONLY:

1. Turn in the station you want to preset (see "Tuning in Stations Manually"). If you want to store the FM reception mode for this station, select the FM reception mode you want. See "Selecting the FM Reception Mode" on page 19.



2. Press TUNER/SEA MEMORY.

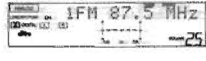


"CH" appears and the channel number position starts flashing on the display for about 10 seconds.

3. Turn MULTI JOG to select a channel number while the channel number position is flashing.



4. Press TUNER/SEA MEMORY again while the selected channel number is flashing on the display. The selected channel number stops flashing. The station is assigned to the selected channel number.



5. Repeat steps 1 to 4 until you store all the stations you want.

To store a preset station

Storing a new station on a used number erases the previously stored one.

To tune in a preset station

On the front panel:

1. Turn SOURCE SELECTOR to select the band (FM or AM). The last received station of the selected band is tuned in.



2. Press TUNER PRESET.



3. Turn MULTI JOG until you find the channel you want.



- Turning it clockwise increases the channel numbers.
- Turning it counterclockwise decreases the channel numbers.

From the remote control:

1. Press FM/AM.



- Each time you press the button, the band alternates between FM and AM.

2. Press the 10 keys to select a preset channel number.



- For channel number 5, press 5.
- For channel number 15, press +10 then 5.
- For channel number 20, press +10 then 10.
- For channel number 30, press +10 +10 then 10.

Note:

When you use the 10 keys on the remote control, be sure that they are activated for the tuner, not for the CD and others (See page 64).

Selecting the FM Reception Mode

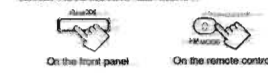
When an FM stereo broadcast is hard to receive or noisy

You can change the FM reception mode while receiving an FM broadcast.

You can store the FM reception mode for each preset station.

Press FM MODE on the front panel or on the remote control.

Each time you press the button, the FM reception mode alternates between "AUTO MUTING" and "MONO".



AUTO MUTING: When a program is broadcasted in stereo, you will hear a stereo sound; when it monaural, you will hear monaural sound. This mode is also useful to suppress static noise between stations. The AUTO MUTING indicator lights up on the display.

MONO: Reception will be improved although you will lose the stereo effect. In this mode, you will hear noise while tuning into the stations. The AUTO MUTING indicator goes off on the display.

Using the SEA Modes

The SEA (Sound Effects Amplifier) modes give you control of the way your music sounds.

IMPORTANT:

When using the remote control, check to see if its remote control mode selector is set to the correct position. To operate this receiver, set it to "AUDIO/TV/VCR".



Creating Your Own SEA Mode

You can adjust and store your own SEA adjustment into memory (SEA USERMODE).

Before you start, remember...

- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

On the front panel ONLY:

1. Press SEA ADJUST repeatedly until the frequency range (100Hz, 1kHz or 10kHz) you want appears on the display.



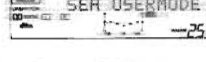
2. Turn MULTI JOG to adjust the SEA level of the selected frequency range.



- Turning it clockwise increases the level.
- Turning it counterclockwise decreases the level.

3. Repeat step 1 and 2 to adjust other frequency ranges if necessary.

4. Press TUNER/SEA MEMORY.



Your adjustment is stored into the SEA USERMODE.

To recall your own SEA adjustment Press SEA MODE repeatedly until "SEA USERMODE" appears.

To erase a stored adjustment Storing a new adjustment into SEA USERMODE erases the previously stored one.

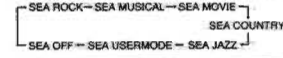
Selecting Your Favorite SEA Mode

On the front panel:

Press SEA MODE repeatedly until the SEA mode you want appears on the display.



Each time you press the button, the SEA mode changes as follows:



- SEA ROCK:** Gives a heavy sound. Both high and low frequencies are boosted.
- SEA MUSICAL:** Enhances the mid-frequency range, which the human voice is mostly made up of.
- SEA MOVIE:** Adds breadth to sounds so you feel like you are in a movie theater.
- SEA COUNTRY:** Enhances the high-frequency range so that instruments and the violin and trumpet are emphasized.
- SEA JAZZ:** Gives a feeling of a live atmosphere. Good for acoustic music.
- SEA USERMODE:** Your original SEA adjustment (see page 18).
- SEA OFF:** No SEA mode is applied (see below).

Notes:

- The SEA mode cannot be used for recording.
- When the SEA mode is turned on, the SEA indicator lights up on the display.
- When the SEA mode is used with the DSP mode (see page 24), sounds may be distorted. If this happens, turn off the DSP mode or decrease the effect level of the DSP mode.

To cancel the SEA mode

Press SEA MODE repeatedly until "SEA OFF" appears. The SEA indicator goes off from the display.

From the remote control:

1. Press SOUND.



The (1) keys are activated for sound adjustments.

2. Press SEA MODE repeatedly until the SEA mode you want appears on the display.



To cancel the SEA mode

Press SEA MODE repeatedly until "SEA OFF" appears in step 2 above. The SEA indicator goes off from the display.

Using the DSP Modes

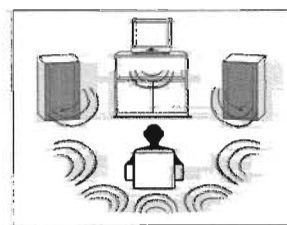
The built-in Surround Processor provides three types of the DSP (Digital Signal Processor) mode — 3D-PHONIC mode, DAP (Digital Acoustic Processor) mode and Surround mode.

3D-PHONIC mode

The 3D-PHONIC mode gives you such a clearly surround effect as is reproduced through the Dolby Surround decoder, which is widely used to reproduce sounds with a feeling of movement like those experienced in movie theaters. The 3D-PHONIC mode is the result of research on sound localization technology carried out at IVC for many years. This mode can be used when the front speakers are connected to this receiver (without respect to the rear/center speaker connection).

3D ACTION: Best for action and war movies — where the action is fast and explosive.

3D THEATER: Reproduces the sound field of a large theater. This mode can be selected when only front speakers are connected to this receiver and "REAR SPK" and "CENTER SPK" are set to "NONE" (see page 14).



DAP modes

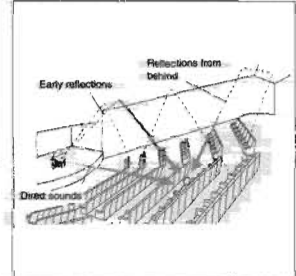
The sound heard in a concert hall or other consists of direct sound and indirect sound — early reflections and reflections from behind. Direct sounds reach the listener directly without any reflection. On the other hand, indirect sounds are delayed by the distances of the ceiling and walls. These direct sounds and indirect sounds are the most important elements of the acoustic surround effect. The DAP mode can create these important elements, and gives you a real "being there" feeling. This mode can be used when the front speakers are connected to this receiver (without respect to the rear/center speaker connection). You can select one of the following to your preference while playing an analog or linear PCM source.

LIVE CLUB: Gives the feeling of a live music club with a low ceiling.

DANCE CLUB: Gives a throbbing floor beat.



HALL: Gives clear vocal and the feeling of a concert hall.

PAVILION: Gives the spacious feeling of a pavilion with a high ceiling.



Surround modes

With this receiver, you can use three types of the Surround mode. Following modes cannot be used when only the front speakers are connected to this receiver (without the rear speakers or center speaker).

Dolby Surround/Dolby Digital and Dolby Pro Logic: Used to watch the soundtracks of software encoded with Dolby Digital (bearing the mark ) or with Dolby Surround (bearing the mark ) .

Dolby Surround encoding format records the left front channel, right front channel, center channel, and rear channel (total 4 channels) signals into 2 channels. The Dolby Pro Logic decoder built in this receiver decodes these 2 channel signals into original 4 channel signals → matrix-based multichannel reproduction, and allows you to enjoy the realistic stereo sounds in your listening room.

On the other hand, Dolby Digital encoding method (so called a discrete 5.1 channel digital audio format) records and compresses the left front channel, right front channel, center channel, left rear channel, right rear channel, and LFE channel (total 6 channels, but LFE channel is counted as 0.1 channel, therefore called 5.1 channels) signals digitally. Each channel is completely independent from other channel signals to avoid interference, therefore, you can obtain much better sound quality with much stereo and surround effects.

The Dolby Digital decoder built in this receiver can create much more realistic sound field in your listening room. You may find as if you were in a real theater.

In addition, Dolby Digital enables stereo rear sounds, and sets the staff frequency of the rear voice at 20 kHz, comparing to 7 kHz for Dolby Pro Logic. These facts enhance the sound movement and bring clear feelings much more than Dolby Pro Logic.


To enjoy the software encoded with Dolby Digital, you must connect the source component using the digital terminal on the rear of this receiver. (See page 8.)

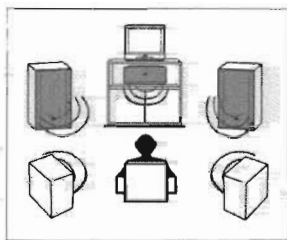
DTS Digital Surround™

DTS Digital Surround is another discrete 5.1 channel digital audio format available on CD, LD, and DVD software. Comparing to Dolby Digital, audio compression rate is relatively low. This fact allows DTS Digital Surround format to have more data recorded than Dolby Digital even using the same mode, and to add breadth and depth to the reproduced sounds. As a result, DTS Digital Surround features natural, solid and clear sound.

To enjoy the software encoded with DTS Digital Surround, you must connect the source component using the digital terminal on the rear of this receiver. (See page 8.)

JVC Theater Surround

In order to reproduce a more realistic sound field in your listening room while playing soundtracks of software encoded with Dolby Surround (bearing the mark ) .



Notes:

- The DSP modes have no effect on monaural sources.
- When you select DVD MULTI as the source to play, you cannot select or adjust the DSP modes.
- The DTS PRO LOGIC indicator lights up when the Dolby Pro Logic decoder built in the receiver is activated.

DVD MULTI Playback Mode

This receiver provides the DVD MULTI playback mode for reproducing the audio discrete 5.1 channel output mode of the DVD player or other equipment. You can adjust the DVD MULTI playback mode while playing back software such as a DVD using the audio (analog 5.1) channel output mode.

- For the DVD MULTI playback mode connection, see page 7.
- For details on the DVD MULTI playback mode, see page 29.

* Manufactured under license from Dolby Laboratories, "Dolby," "Pro Logic" and the double D symbol are trademarks of Dolby Laboratories, Confidential Unpublished Works, ©1998-1999 Dolby Laboratories, Inc. All rights reserved.

** Manufactured under license from Digital Theater Systems, Inc. US Pat. Nos. 5,451,342 and other work/patents issued and pending. "DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc. ©1996 Digital Theater Systems, Inc. All rights reserved.

Available DSP Modes According to the Speaker Arrangement

Available DSP modes will vary depending on how many speakers are used with this receiver. Make sure that you base on the speaker information correctly (see page 14).

Speaker arrangements	Available DSP modes
	Each time you press DSP MODE on the front panel or SURROUND MODE on the remote control, the DSP mode change as follows: • 3D THEATER • LIVE CLUB • DANCE CLUB • HALL • PAVILION • 3D ACTION • DSP OFF (DSP mode is canceled)
	Each time you press DSP MODE on the front panel or SURROUND MODE on the remote control, the DSP mode change as follows: By pressing DSP MODE: • THEATER • LIVE CLUB • DANCE CLUB • HALL • PAVILION • 3D ACTION • DSP OFF (DSP mode is canceled) By pressing SURROUND MODE: • DOLBY/DTS SURROUND • DOLBY PRO LOGIC/DOLBY DIGITAL™ or DTS SURROUND™ • THEATER • LIVE CLUB • DANCE CLUB • HALL • PAVILION • 3D ACTION • DSP OFF (DSP mode is canceled)
	To activate the Surround mode, you can also use the SURROUND ON/OFF button.
	Each time you press DSP MODE on the front panel or SURROUND MODE on the remote control, the DSP mode change as follows: By pressing DSP MODE: • THEATER • LIVE CLUB • DANCE CLUB • HALL • PAVILION • 3D ACTION • DSP OFF (DSP mode is canceled) By pressing SURROUND MODE: • DOLBY/DTS SURROUND • DOLBY PRO LOGIC/DOLBY DIGITAL™ or DTS SURROUND™ • THEATER • LIVE CLUB • DANCE CLUB • HALL • PAVILION • 3D ACTION • DSP OFF (DSP mode is canceled)
	To activate the Surround mode, you can also use the SURROUND ON/OFF button.

Notes:

- If Surround mode is canceled while playing back a multichannel source such as Dolby Digital and DTS Digital Surround, all channel signals are mixed with left and right front channel and are output through the front speakers.
- While playing back a multichannel source such as Dolby Digital and DTS Digital Surround, Theater Surround, DAP modes, and 3D-PHONIC mode cannot be used. On the other hand, if you select a Dolby Digital and DTS Digital Surround as the source to play while using any of Theater Surround, DAP modes, and 3D-PHONIC modes, the currently selected mode will be canceled and Dolby Digital or DTS Digital Surround mode will be activated.

IMPORTANT:

When using the remote control, check to see if a mode control mode selector is set to the correct position. To operate this receiver, set it to "A (DIRECT)/VCR".

Adjusting the 3D-PHONIC Modes

Once you have adjusted the 3D-PHONIC modes, an adjustment menu will be displayed for each 3D-PHONIC mode.

Before you start, remember...
 • Make sure that you have set the speaker information correctly (see page 14).
 • There is a time limit as changing the following steps. If the setting is canceled before you finish, start from step 1, again.

On the front panel:

1. Press DSP MODE repeatedly until "3D ACTION" or "3D THEATER" appears on the display.
 The 3D-PHONIC, DSP, and DTS PRO LOGIC indicators also light up on the display.

2. Adjust the effect level.
 (1) Press BALANCE/SURROUND ADJUST repeatedly until "DSP EFFECT" appears on the display. The display changes to show the current setting.
 (2) Turn MULTI JOG to select the effect level.
 • As you turn it, the effect level changes as follows:
 DSP EFFECT 1 → DSP EFFECT 2 → DSP EFFECT 3 → DSP EFFECT 4 → DSP EFFECT 5

As the number increases, the selected 3D-PHONIC mode becomes stronger.

From the remote control:

1. Press SURROUND MODE repeatedly until "3D ACTION" or "3D THEATER" appears on the display.
 The 3D-PHONIC, DSP, and DTS PRO LOGIC indicators also light up on the display.

2. Press SOUND.
 The 10 keys are activated for sound adjustments.

3. Press EFFECT to select an effect level you want.
 • Each time you press the button, the effect level changes as follows:
 DSP EFFECT 1 → DSP EFFECT 2 → DSP EFFECT 3 → DSP EFFECT 4 → DSP EFFECT 5

As the number increases, the selected 3D-PHONIC mode becomes stronger.

Adjusting the DAP Modes

Once you have adjusted the DAP modes, the adjustment is memorized by each DAP mode.

Before you start, remember...

- Make sure that you have set the speaker information correctly (see page 14).
- There is a time limit as doing the following steps. If the setting is canceled before you finish, start from step 1 again.
- You cannot adjust the rear speaker output level when you have set "REAR SPK" to "NONE". (See page 14).
- When the DAP mode is used with the SEA mode (see page 20), search may be disturbed. If this happens, turn off the SEA mode.

On the front panel:

1. Press DSP MODE repeatedly until the DAP mode — LIVE CLUB, DANCE CLUB, HALL, or PAVILION — appears on the display.
 The DSP indicator also lights up on the display.
 • When you have set "REAR SPK" to "NONE", the 3D-PHONIC indicator also lights up.

2. Adjust the speaker output levels.
 (1) Press BALANCE/SURROUND ADJUST repeatedly until one of the indicators appears on the display.
 "REAR R LEVEL" (To adjust the left rear speaker level)
 "REAR L LEVEL" (To adjust the right rear speaker level)
 (2) Turn MULTI JOG to adjust the selected speaker output level (from -10 dB to +10 dB).
 (3) Repeat 1 and 2 to adjust the other speaker output level.

Adjust the effect level.

- 1) Press BALANCE/SURROUND ADJUST repeatedly until "DSP EFFECT" appears on the display. The display changes to show the current setting.
 (2) Turn MULTI JOG to select the effect level.
 • As you turn it, the effect level changes as follows:
 DSP EFFECT 1 → DSP EFFECT 2 → DSP EFFECT 3 → DSP EFFECT 4 → DSP EFFECT 5

As the number increases, the selected DAP mode becomes stronger.

From the remote control:

1. Press SURROUND MODE repeatedly until the DAP mode — LIVE CLUB, DANCE CLUB, HALL, or PAVILION — appears on the display.
 The DSP indicator also lights up on the display.
 • When you have set "REAR SPK" to "NONE", the 3D-PHONIC indicator also lights up.

2. Press SOUND.
 The 10 keys are activated for sound adjustments.
3. Adjust the speaker output levels.
 • To adjust the left rear speaker level, press REAR L (from -10 dB to +10 dB).
 • To adjust the right rear speaker level, press REAR R (from -10 dB to +10 dB).
4. Press EFFECT to select an effect level you want.
 • Each time you press the button, the effect level changes as follows:
 DSP EFFECT 1 → DSP EFFECT 2 → DSP EFFECT 3 → DSP EFFECT 4 → DSP EFFECT 5

As the number increases, the selected DAP mode becomes stronger.

Adjusting the Surround Modes

Once you have adjusted the Surround modes, the adjustment is memorized by each Surround mode.

Dolby and DTS Surround adjustments

- Before you start, remember...
 • Make sure that you have set the speaker information correctly (see page 14).
 • There is a time limit as doing the following steps. If the setting is canceled before you finish, start from step 1 again.
 • You cannot adjust the rear speaker output level when you have set "REAR SPK" to "NONE". (See page 14).
 • You cannot adjust the center speaker output level when you have set "CENTER SPK" to "NONE". (See page 14).

From the remote control:

1. Press SURROUND ON/OFF to activate an appropriate Surround mode — PRO LOGIC, DOLBY DIGITAL or DTS SURROUND.
 • Each time you press the button, the Surround mode turns on and off alternately.
 • When the 3D-PHONIC is selected, the DTS PRO LOGIC indicator lights up on the display.

Note:
 You can also press SURROUND MODE to activate an appropriate Surround mode.

2. Press SOUND.
 The 10 keys are activated for sound adjustments.
3. Press TEST to check the speaker output balance.
 • When you press the button, the display and a tone comes out of the speakers in the following order:
 TEST TONE L (Left rear speaker) → TEST TONE C (Center speaker) → TEST TONE R (Right rear speaker) → TEST TONE L (Left rear speaker) → TEST TONE R (Right rear speaker)

Notes:

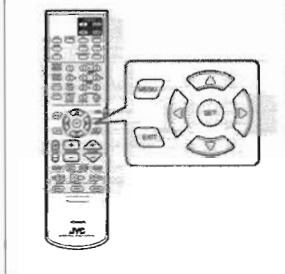
- You can adjust the speaker output level without changing the mode.
- You test tone comes out of the center speaker when "CENTER SPK" is set to "NONE" (see page 14).
- You test tone comes out of the rear speakers when "REAR SPK" is set to "NONE" (see page 14).
- If the TV is turned on and the proper video input is selected on the TV, the test tone screen will appear on the TV.

Using the On-Screen Menus

You can use the Menu on the TV screen to control the receiver. To use this function, you need to connect the TV to the MONITOR OUT Jack on the rear panel (see page 7), and set the TV's input mode to the proper position to which the receiver is connected.

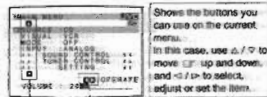
- When the TV input mode is incorrect, for example, a different video input or TV tuner mode is selected, you cannot show the Menu on the TV screen.

On-Screen Operation buttons (on the remote control)



Selecting the Source to Play (Also see page 10)

- Press MENU. The MAIN MENU appears on the TV.
 - Pressing one of the $\Delta/\nabla/\leftarrow/\rightarrow$ buttons also displays the MAIN MENU.



- Press Δ/∇ to move \rightarrow to "SOURCE."
 - Press \leftarrow/\rightarrow to select the source.
- When you finish, press EXIT. The menu disappears from the TV.

Notes:

- "INPUT" appears only when the digital input (DIGITAL IN) terminal setting have been correctly done for the digital source currently selected. (See page 16.)
- The on-screen display will disappear if no operation is done for about 1 minute.

Selecting Different Sources for Picture and Sound (Also see page 11)

- Press MENU. The MAIN MENU appears on the TV.
 - Pressing one of the $\Delta/\nabla/\leftarrow/\rightarrow$ buttons also displays the MAIN MENU.
- Press Δ/∇ to move \rightarrow to "VISUAL."
- Press \leftarrow/\rightarrow to select a different video source.
- When you finish, press EXIT. The menu disappears from the TV.



Activating the DSP Modes (Also see page 27)

- Press MENU. The MAIN MENU appears on the TV.
 - Pressing one of the $\Delta/\nabla/\leftarrow/\rightarrow$ buttons also displays the MAIN MENU.
- Press Δ/∇ to move \rightarrow to "MODE."
- Press \leftarrow/\rightarrow to select the DSP mode you want to use.
- When you finish, press EXIT. The menu disappears from the TV.



Selecting the Analog or Digital Input Mode (Also see page 16)

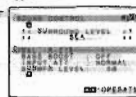
This selection is only possible when the digital input (DIGITAL IN) terminal setting have been correctly done for the digital source currently selected.

- Press MENU. The MAIN MENU appears on the TV.
 - Pressing one of the $\Delta/\nabla/\leftarrow/\rightarrow$ buttons also displays the MAIN MENU.
- Press Δ/∇ to move \rightarrow to "INPUT."
- Press \leftarrow/\rightarrow to select the digital or analog input you want. For details, see page 16.
- When you finish, press EXIT. The menu disappears from the TV.



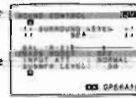
Adjusting the Front Speaker Output Balance (Also see page 13)

- Press MENU. The MAIN MENU appears on the TV.
 - Pressing one of the $\Delta/\nabla/\leftarrow/\rightarrow$ buttons also displays the MAIN MENU.
- Press Δ/∇ to move \rightarrow to "SOUND CONTROL," then press \leftarrow/\rightarrow . The SOUND CONTROL menu appears.
- Press Δ/∇ to move \rightarrow to "BAL." (Balance).
- Press \leftarrow/\rightarrow to adjust the balance.
- When you finish, press EXIT repeatedly until the menu disappears from the TV.



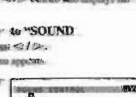
Reinforcing the Bass (Also see page 12)

- Press MENU. The MAIN MENU appears on the TV.
 - Pressing one of the $\Delta/\nabla/\leftarrow/\rightarrow$ buttons also displays the MAIN MENU.
- Press Δ/∇ to move \rightarrow to "SOUND CONTROL," then press \leftarrow/\rightarrow . The SOUND CONTROL menu appears.
- Press Δ/∇ to move \rightarrow to "BASS BOOST."
- Press \leftarrow/\rightarrow to turn the bass boost function "ON" or "OFF."
- When you finish, press EXIT repeatedly until the menu disappears from the TV.



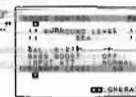
Attenuating the Input Signal (Also see page 12)

- Press MENU. The MAIN MENU appears on the TV.
 - Pressing one of the $\Delta/\nabla/\leftarrow/\rightarrow$ buttons also displays the MAIN MENU.
- Press Δ/∇ to move \rightarrow to "SOUND CONTROL," then press \leftarrow/\rightarrow . The SOUND CONTROL menu appears.
- Press Δ/∇ to move \rightarrow to "INPUT ATT."
- Press \leftarrow/\rightarrow to turn the Input Attenuator mode "ATT ON" or "NORMAL."
- When you finish, press EXIT repeatedly until the menu disappears from the TV.



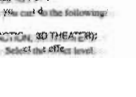
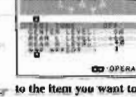
Adjusting the Subwoofer Output Level (Also see page 12)

- Press MENU. The MAIN MENU appears on the TV.
 - Pressing one of the $\Delta/\nabla/\leftarrow/\rightarrow$ buttons also displays the MAIN MENU.
- Press Δ/∇ to move \rightarrow to "SOUND CONTROL," then press \leftarrow/\rightarrow . The SOUND CONTROL menu appears.
- Press Δ/∇ to move \rightarrow to "SUBWFR LEVEL."
- Press \leftarrow/\rightarrow to adjust the subwoofer output level.
- When you finish, press EXIT repeatedly until the menu disappears from the TV.



Adjusting the DSP Modes (Also see pages 24-27)

- Press MENU. The MAIN MENU appears on the TV.
 - Pressing one of the $\Delta/\nabla/\leftarrow/\rightarrow$ buttons also displays the MAIN MENU.
- Press Δ/∇ to move \rightarrow to "MODE."
- Press \leftarrow/\rightarrow to select the DSP mode you want to adjust.
 - To this example, "THEATER" is selected.
- Press Δ/∇ to move \rightarrow to "SOUND CONTROL," then press \leftarrow/\rightarrow . The SOUND CONTROL menu appears.
- Press Δ/∇ to move \rightarrow to the item you want to set or adjust, then press \leftarrow/\rightarrow . On these adjustment items, you can do the following:
 - For 3D-PHONIC (3D ACTION 3D THEATER): "DSP EFFECT" - Select the effect level.



For DAP (LIVE CLIP, DANCE CLUB, HALL, PAULING):
"REAR L LEVEL": Adjust the left rear speaker output level.
"REAR R LEVEL": Adjust the right rear speaker output level.
"DSP EFFECT": Select the effect level.

For Dolby Pro Logic:
"TEST TONE": Output a test tone.
"CENTER LEVEL": Adjust the center speaker output level.
"REAR L LEVEL": Adjust the left rear speaker output level.
"REAR R LEVEL": Adjust the right rear speaker output level.

For Dolby Digital and DTS (Digital Surround):
"TEST TONE": Output a test tone.
"CENTER LEVEL": Adjust the center speaker output level.
"REAR L LEVEL": Adjust the left rear speaker output level.
"REAR R LEVEL": Adjust the right rear speaker output level.
"DSP EFFECT": Select the effect level.

For JVC Theater Surround:
"TEST TONE": Output a test tone.
"CENTER LEVEL": Adjust the center speaker output level.
"REAR L LEVEL": Adjust the left rear speaker output level.
"REAR R LEVEL": Adjust the right rear speaker output level.
"DSP EFFECT": Select the effect level.

Notes:

- Not displayed when "REAR SPK" is set to "NONE" (see page 14).
- Not displayed when "CENTER SPK" is set to "NONE" (see page 14).

Adjusting the DVD MULTI Playback Mode (Also see page 28)

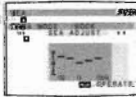
- Press MENU. The MAIN MENU appears on the TV.
 - Pressing one of the $\Delta/\nabla/\leftarrow/\rightarrow$ buttons also displays the MAIN MENU.
- Press Δ/∇ to move \rightarrow to "SOURCE."
- Press \leftarrow/\rightarrow to select "DVD MULTI."
- Press Δ/∇ to move \rightarrow to "SOUND CONTROL," then press \leftarrow/\rightarrow . The SOUND CONTROL menu appears.
- Press Δ/∇ to move \rightarrow to "SURROUND LEVEL," then press \leftarrow/\rightarrow . The SURROUND LEVEL menu appears.



- Press Δ/∇ to move \rightarrow to the item you want to set or adjust, then press \leftarrow/\rightarrow . On this adjustment menu, you can do the following:
 - "CENTER LEVEL": Adjust the center speaker output level.
 - "REAR L LEVEL": Adjust the left rear speaker output level.
 - "REAR R LEVEL": Adjust the right rear speaker output level.
- When you finish, press EXIT repeatedly until the menu disappears from the TV.

Selecting Your Favorite SEA Mode (Also see page 20)

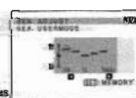
- Press MENU. The MAIN MENU appears on the TV.
 - Pressing one of the $\Delta/\nabla/\leftarrow/\rightarrow$ buttons also displays the MAIN MENU.
- Press Δ/∇ to move \rightarrow to "SOUND CONTROL," then press \leftarrow/\rightarrow . The SOUND CONTROL menu appears.
- Press Δ/∇ to move \rightarrow to "SEA," then press \leftarrow/\rightarrow . The SEA menu appears.
- Press Δ/∇ to move \rightarrow to "SEA MODE."
- Press \leftarrow/\rightarrow to select the SEA mode you want.
- When you finish, press EXIT repeatedly until the menu disappears from the TV.



Creating Your Own SEA Mode (Also see page 20)

- Press MENU. The MAIN MENU appears on the TV.
 - Pressing one of the $\Delta/\nabla/\leftarrow/\rightarrow$ buttons also displays the MAIN MENU.
- Press Δ/∇ to move \rightarrow to "SOUND CONTROL," then press \leftarrow/\rightarrow . The SOUND CONTROL menu appears.
- Press Δ/∇ to move \rightarrow to "SEA," then press \leftarrow/\rightarrow . The SEA menu appears.

- Press Δ/∇ to move \rightarrow to "SEA ADJUST," then press \leftarrow/\rightarrow . The SEA ADJUST menu appears.
- Press Δ/∇ to move \rightarrow to "SEA," then press \leftarrow/\rightarrow to adjust the SEA mode as you want.
 - \leftarrow/\rightarrow - Select the frequency range.
 - Δ/∇ - Adjust the frequency levels.
- Press SET to store the setting into the SEA USERMODE.



- If you press EXIT, without pressing SET in this step, you can reset to the SEA menu. The adjustment you have made is active but not stored.
- When you finish, press EXIT repeatedly until the menu disappears from the TV.

Setting the Basic Setting Items (Also see pages 14-17)

- Press MENU. The MAIN MENU appears on the TV.
 - Pressing one of the $\Delta/\nabla/\leftarrow/\rightarrow$ buttons also displays the MAIN MENU.
- Press Δ/∇ to move \rightarrow to "SETTING," then press \leftarrow/\rightarrow . The SETTING menu appears.
- Press Δ/∇ to move \rightarrow to the item you want to set or adjust, then press \leftarrow/\rightarrow . To go to the SETTING 2 menu, move \rightarrow to "NEXT PAGE" then press \leftarrow/\rightarrow . To go back to the SETTING 1 menu, move \leftarrow to "PREVIOUS PAGE" then press \leftarrow/\rightarrow . On the SETTING 1 and 2 menu, you can do the following:
 - "SUBWOOFER": Set the subwoofer information (see page 14).
 - "FRONT SPK": Set the front speaker information (see page 14).
 - "CENTER SPK": Set the center speaker information (see page 14).
 - "REAR SPK": Set the rear speaker information (see page 14).
 - "CENT DELAY": Adjust the delay time of the center speaker output (see page 14).
 - "REAR DELAY": Adjust the delay time of the rear speaker output (see page 14).
 - "CROSSOVER": Set the crossover frequency (see page 15).

"SUB DELAY": Set the low frequency effect attenuator level (see page 15).
"COMP": Set the dynamic range compression (see page 15).
"DIGITAL LOGIC": Set the digital input terminals (see page 16).
"FL DISE": Show the IEC 609 information on the display (see page 17).

Notes:

- Not adjustable when "CENTER SPK" is set to "NONE" (see page 14).
- Not adjustable when "REAR SPK" is set to "NONE" (see page 14).

Operating the Tuner (Also see pages 18 and 19)

- Press MENU. The MAIN MENU appears on the TV.
 - Pressing one of the $\Delta/\nabla/\leftarrow/\rightarrow$ buttons also displays the MAIN MENU.
- Press Δ/∇ to move \rightarrow to "TUNER CONTROL," then press \leftarrow/\rightarrow . The TUNER CONTROL menu appears.
- Press Δ/∇ to move \rightarrow to the item you want to set or adjust, then press \leftarrow/\rightarrow . On the TUNER CONTROL menu, you can do the following:
 - "PRESET CH": Select a preset channel station.
 - "RAND": Select the Rand.
 - "FREQUENCY": Scan in a new FM manually.
 - "RM MODE": Select the FM Reception mode.*
 - "PRESET MEMORY": See "Storing the / Most Stations" on the next page.
- When you finish, press EXIT repeatedly until the menu disappears from the TV.

Notes:

- Not displayed when AM station is selected.

Storing the Preset Stations (Also see page 18)

1. Press **MENU**.
The MAIN MENU appears on the TV.
Pressing one of the Δ / ∇ / \leftarrow / \rightarrow buttons also displays the MAIN MENU.
2. Press Δ / ∇ to move \rightarrow to "TUNER CONTROL," then press \leftarrow / \rightarrow .
The TUNER CONTROL menu appears.
3. Tune into a station on the TUNER CONTROL menu, referring to "Operating the Tuner" on the previous page.
4. Press Δ / ∇ to move \rightarrow to "PRESET MEMORY," then press \leftarrow / \rightarrow .
The PRESET MEMORY menu appears.
5. Press \leftarrow / \rightarrow to select a preset station number you want.
6. Press **SET** to store the setting.
7. When you finish, press **EXIT** repeatedly until the menu disappears from the TV.

Assigning Names to Preset Stations (Also see page 19)

1. Press **MENU**.
The MAIN MENU appears on the TV.
Pressing one of the Δ / ∇ / \leftarrow / \rightarrow buttons also displays the MAIN MENU.
2. Press Δ / ∇ to move \rightarrow to "TUNER CONTROL," then press \leftarrow / \rightarrow .
The TUNER CONTROL menu appears.
3. Press Δ / ∇ to move \rightarrow to "PRESET CH.".
4. Press \leftarrow / \rightarrow to select a preset station.
5. Press Δ / ∇ to move \rightarrow to "PRESET MEMORY," then press \leftarrow / \rightarrow .
The PRESET MEMORY menu appears.

6. Press Δ / ∇ to move \rightarrow to "PRESET NAME," then press **SET**.
The character entry screen appears.
7. Press Δ / ∇ / \leftarrow / \rightarrow to move \rightarrow in front of a character you want.
You can also select the following:
 - **SPACE**: To enter space
 - **RECALL**: To recall the character
 - \leftarrow / \rightarrow : To go back to the previous character position or go to the next character position.
8. Press **SET** to enter the selected character.
9. Repeat steps 7 and 8 to enter up to four characters.
10. Press Δ / ∇ / \leftarrow / \rightarrow to move \rightarrow to "PRESET NAME," then press **SET** to store the setting.
The TUNER CONTROL menu appears again.

11. When you finish, press **EXIT** repeatedly until the menu disappears from the TV.

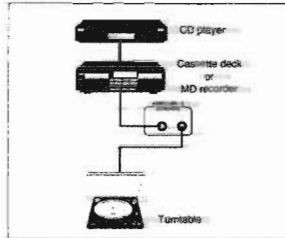


COMPU LINK Remote Control System

The COMPU LINK remote control system allows you to operate JVC audio components through the remote sensor on the receiver.

To use this remote control system, you need to connect JVC audio components through the COMPU LINK-3 (SYNCHRO) jacks (see below) in addition to the connections using cables with RCA pin plugs (see pages 5 and 6).

Make sure that the AC power cords of these components are unplugged before connections. Plug the AC power cords only after all connections are complete.



- Notes:**
- If your audio component has two COMPU LINK-3 (SYNCHRO) jacks, you can use either one. If it has only one COMPU LINK-3 (SYNCHRO) jack, connect it so that it is the last item in the series of components. (For example, the turntable or CD player in the diagram above.)
 - To operate the cassette deck or MD recorder using the COMPU LINK remote control system, set the source name correctly. (See page 18.)
 - Refer also to the manuals supplied with your audio components.

This remote control system allows you to use four functions listed below.

Remote Control through the Remote Sensor on the Receiver

You can control the connected audio components through the remote sensor on the receiver using this remote control. Also, the remote control directly at the remote sensor on the receiver. For details, see pages 43 and 44.

Automatic Source Selection

When you press the play (P) button on a connected component or on its own remote control, the receiver automatically turns on and changes the source to the component. On the other hand, if you select a new source on the receiver or on the remote control, the selected component begins playing immediately.

In both cases, the previously selected source continues playing without sound for a few seconds.

Automatic Power On/Off Standby: only possible with the COMPU LINK-3 connection

Both the CD player and cassette deck (or MD recorder) turn on and off (standby) along with the receiver.

When you turn on the receiver, the CD player or cassette deck (or MD recorder) will turn on automatically, depending on which component has been previously selected.

When you turn off the receiver, both the CD player and cassette deck (or MD recorder) will turn off (standby).

Synchronized Recording

Synchronized recording means the cassette deck (or MD recorder) starts recording as soon as a CD or a record begins playing.

To use synchronized recording, follow these steps:

1. Put a tape in the cassette deck (or an MD in the MD recorder), and a disc in the CD player (or a record on the turntable).
2. Press the record (R) button and the pause (II) button on the cassette deck (or MD recorder) at the same time.
This puts the cassette deck (or MD recorder) into recording (pause).
If you do not press the record (R) button and pause (II) button at the same time, the synchronized recording feature will not operate.
3. Press the play (P) button on the CD player or on the turntable.
The source changes on the receiver, and as soon as play starts, the cassette deck (or MD recorder) starts recording. When the play ends, the cassette deck (or MD recorder) enters recording (pause) and stops about 4 seconds later.

- Notes:**
- During synchronized recording, the selected source cannot be changed.
 - If the power of any component is shut off during synchronized recording, the COMPU LINK remote control system may not operate properly. In this case, you must start again from the beginning.

TEXT COMPU LINK Remote Control System

The TEXT COMPU LINK remote control system has been newly developed to deal with the disc information RECORDING on the CD Text* and MDs. Using these information in the disc, you can operate the CD player or MD recorder equipped with the TEXT COMPU LINK remote control system through the receiver.

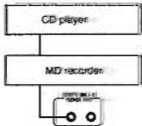
CONNECTIONS:

To use this remote control system, you need to connect the CD player and/or MD recorder you want to operate, following the procedures below.

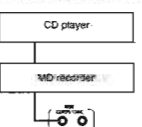
1. If you have already plugged your CD player, MD recorder, and this receiver into the AC outlets, unplug their AC power cords first.

2. Connect your CD player, MD recorder, and this receiver as follows, through the COMPU LINK-3 (SYNCHRO) jacks and TEXT COMPU LINK jacks.

- 1) **COMPU LINK-3 (SYNCHRO) jack:** Use the cables with the monaural mini-plugs (see supplied with this receiver).



- 2) **TEXT COMPU LINK jacks:** Use the cables with the stereo mini-plugs (not supplied with this receiver).



3. Connect your CD player, MD recorder and this receiver using the cables with RCA pin plugs (see pages 5 and 6).

4. Plug the AC power cords of these components above into the AC outlets.

5. When turning on these components for the first time, turn on the connected components first, then turn on this receiver.

FUNCTIONS:

This remote control system allows you to use the functions listed below.

Displaying the Disc Information on the TV Screen

Disc information such as its performer and disc title and track titles only when a CD Text* is selected is shown on the TV screen.

Disc Search: Only for CD Player

This remote control system can allow you to search discs by the performer, disc title, and music genre.

With this disc search, you can easily find the disc you want to play.

Disc Track Input:

If your CD player or MD recorder has the disc memory function, you can input the following information about the normal audio CDs or MDs on the TV screen.

- For CDs: Performer, disc title, and music genre.
- For MDs: Disc title and song titles.

***What is a CD Text?**

In a CD Text, some information about the disc (its disc title, performer, composer, singer, etc.) is recorded.

- Notes:**
- If your audio component has two COMPU LINK-3 (SYNCHRO) jacks, you can use either one. If it has only one COMPU LINK-3 (SYNCHRO) jack, connect it so that it is the last item in the series of components. (For example, the CD player in the diagram to the left.)
 - If your audio component has two TEXT COMPU LINK jacks, you can use either one. If it has only one TEXT COMPU LINK jack, connect it so that it is the last item in the series of components. (For example, the CD player in the diagram to the left.)

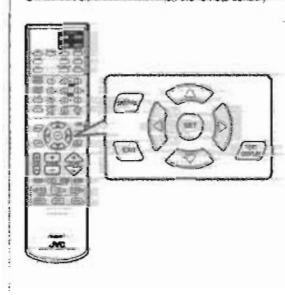
- "TEXT COMPU LINK SOURCE NOT CONNECTED" appears on the display in the following cases:
 - When the connections explained to the left are not correctly done.
 - When you try to use the TEXT COMPU LINK function at the control system does not work properly.

- IMPORTANT:**
1. Turn off all the components including this receiver.
 2. Turn on the connected components.
 3. Turn on this receiver.

OPERATIONS

To use this remote control system, you need to connect the TV to the MONITOR OUT jack on the rear panel (see page 7), and set the TV's input mode to the proper position by which the receiver is connected. **Make sure you have connected the CD player or MD recorder equipped with the TEXT COMPU LINK remote control system. If not, you cannot use the following functions.**

On-Screen Operation buttons for the remote control:



1. Source name: CD or MD.
2. Select \square or \square , then press **SET** to change the disc.
3. Track numbers and track titles.
 - The current playing (selected) track is indicated by yellow.
 - When you move \rightarrow to a track number, you can change the track information by pressing \leftarrow / \rightarrow . Each time you press the track information by pressing \leftarrow / \rightarrow , the information alternates between its track title and its performer. (You can also start playing the track by pressing **SET**.)
4. Select this source (C) in front, then press **SET** to go to the DISC SEARCH screen (see page 39).
5. Select this source (C) in front, then press **SET** to go to the TRACK INPUT screen (see page 39).
6. This appears only when a CD Text is selected.
 - 1) Disc information such as the disc title, performer, and music genre.
 - When this is selected (C) in front, you can change the disc information by pressing \leftarrow / \rightarrow . Each time you press the button, disc information (see "Note on (7)'s changes).
 - 2) Select \square or \square , then press **SET** to change the track.
 - 3) Usable buttons and their functions for the control selection.
 - Indicators here will be changed according to what is currently selected (C) in front on the screen. See "Note on (7)''.

- Note on (1):**
- The following information will appear on the display:
 - For CD Text: Disc title, Performer, Genre, Song writer, Composer, Arranger, Message.
 - Only recorded information will be shown: if there is no data, "NO DATA" will appear.
 - For MDs: Disc title.
 - If there is no data, "NO DATA" will appear.

- Note on (2):**
- For example, the **SET** (C) will be used to start play (PLAY), \square to the next screen (NEXT), and \square to change the selection (EXIT).

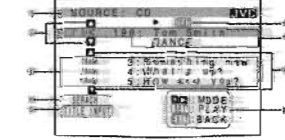
To exit from the Disc Information screen: Press EXIT.

- Notes:**
- The on-screen display will disappear in the following cases:
 - If no operation is done for about 10 minutes.
 - If you do any operation other than explained in this section.
 - To control the MD recorder using the TEXT COMPU LINK remote control system, you have to change the source name shown on the display from "TAPE" to "MD." (See page 18.)
 - Some special characters and marks cannot be played by compact disc.

Showing the Disc Information on the TV Screen

Press **TEXT DISPLAY** while "CD" or "MD" is selected as the source.

The Disc Information screen appears on the TV.



Searching for a Disc (Only for the CD player)
Search for a disc by its performer:

1. Press TEXT DISPLAY while "CD" is selected as the source.
 The Disc Information screen appears on the TV.

2. Press Δ/∇ to move \rightarrow to "SEARCH," then press SET.
 The DISC SEARCH screen appears.

3. Press Δ/∇ to move \rightarrow to "PERFORMER," then press SET.
 The PERFORMER SEARCH screen appears.

4. Press $\Delta/\nabla/\leftarrow/\rightarrow$ to move \rightarrow in front of the first character of the performer you want to search, then press SET.
 To correct the incorrect entry, press $\Delta/\nabla/\leftarrow/\rightarrow$ to move \rightarrow in front of the correct character, then press SET.

Note:
 Symbols such as @, # or \$ cannot be available for search.

5. Press SET again.
 Disc search starts, then the SEARCH RESULT screen, showing the performers, appears.

6. On the SEARCH RESULT screen, you can do the following:

- Changing the indication of the disc information: Press Δ/∇ to move \rightarrow to a searched disc, then press \leftarrow/\rightarrow . Each time you press \leftarrow/\rightarrow , the disc information alternates between its performer and its disc title.
- Starting a disc play and going to the Disc Information screen (see page 37): Press Δ/∇ to move \rightarrow to a searched disc, then press SET.
- Showing unseen disc information (if more than 5 discs are listed as a result of the search): Press Δ/∇ until they appear.
- Going back to the PERFORMER SEARCH screen: Press EXIT.



Search for a disc by its disc title:

1. Press TEXT DISPLAY while "CD" is selected as the source.
 The Disc Information screen appears on the TV.

2. Press Δ/∇ to move \rightarrow to "SEARCH," then press SET.
 The DISC SEARCH screen appears.

3. Press Δ/∇ to move \rightarrow to "DISC TITLE," then press SET.
 The DISC TITLE SEARCH screen appears.

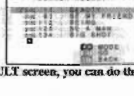
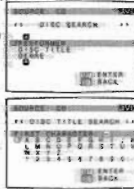
4. Press $\Delta/\nabla/\leftarrow/\rightarrow$ to move \rightarrow in front of the first character of the disc title you want to search, then press SET.
 To correct the incorrect entry, press $\Delta/\nabla/\leftarrow/\rightarrow$ to move \rightarrow in front of the correct character, then press SET.

Note:
 Symbols such as @, # or \$ cannot be available for search.

5. Press SET again.
 Disc search starts, then the SEARCH RESULT screen, showing the disc titles, appears.

6. On the SEARCH RESULT screen, you can do the following:

- Changing the indication of the disc information: Press Δ/∇ to move \rightarrow to a searched disc, then press \leftarrow/\rightarrow . Each time you press \leftarrow/\rightarrow , the disc information alternates between its disc title and its performer.
- Starting a disc play and going to the Disc Information screen (see page 37): Press Δ/∇ to move \rightarrow to a searched disc, then press SET.
- Showing unseen disc information (if more than 5 discs are listed as a result of the search): Press Δ/∇ until they appear.
- Going back to the DISC TITLE SEARCH screen: Press EXIT.



Search for a disc by its genre:

1. Press TEXT DISPLAY while "CD" is selected as the source.
 The Disc Information screen appears on the TV.

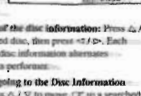
2. Press Δ/∇ to move \rightarrow to "SEARCH," then press SET.
 The DISC SEARCH screen appears.

3. Press Δ/∇ to move \rightarrow to "GENRE," then press SET.
 The GENRE SEARCH screen appears.

4. Press Δ/∇ to move \rightarrow to the genre you want to search, then press SET.
 To show the unseen genres, press Δ/∇ until they appear.
 Disc search starts, then the SEARCH RESULT screen, showing the disc titles, appears.

5. On the SEARCH RESULT screen, you can do the following:

- Changing the indication of the disc information: Press Δ/∇ to move \rightarrow to a searched disc, then press \leftarrow/\rightarrow . Each time you press \leftarrow/\rightarrow , the disc information alternates between its disc title and its performer.
- Starting a disc play and going to the Disc Information screen (see page 37): Press Δ/∇ to move \rightarrow to a searched disc, then press SET.
- Showing unseen disc information (if more than 5 discs are listed as a result of the search): Press Δ/∇ until they appear.
- Going back to the GENRE SEARCH screen: Press EXIT.



Entering the Disc Information

For the CD Player with the disc memory function:

You can use the disc memory function through this screen.

The disc information (its performer, disc title, and music genre) of normal audio CDs will be stored into the memory built in the CD player.

For the disc memory function, refer to the manual supplied with your CD player.

• The performer, disc title, and music genre information are usually recorded in a CD-Text. However, if a CD-Text has no genre information recorded in the disc itself, you can input its music genre by yourself.

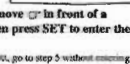
Note:
 You can enter the TITLE INPUT screen for a CD-Text and input its title. However, you cannot store the title you have input for a CD-Text.

Example: Entering the following information for Disc 1
 Performer: "MICHAEL"
 Disc title: "MY FAVORITE"

1. Press TEXT DISPLAY while "CD" is selected as the source.
 The Disc Information screen appears on the TV.

2. Press Δ/∇ to move \rightarrow to "TITLE INPUT," then press SET.
 The TITLE INPUT: PERFORMER screen appears.

3. Press $\Delta/\nabla/\leftarrow/\rightarrow$ to move \rightarrow in front of a character you want, then press SET to enter the character.
 • If the current CD is a CD-TEXT, go to step 5 without entering the performer.
 To use the lower case letters, press $\Delta/\nabla/\leftarrow/\rightarrow$ to move \rightarrow to [a-z] , then press SET.
 To use the upper case letters again, press $\Delta/\nabla/\leftarrow/\rightarrow$ to move \rightarrow to [A-Z] , then press SET.



4. Repeat step 3 until you finish putting a performer name (up to 32 characters).

To insert a space, press $\Delta/\nabla/\leftarrow/\rightarrow$ to move \rightarrow to [space] , then press SET.

To correct an incorrect character:

1) Press $\Delta/\nabla/\leftarrow/\rightarrow$ to move \rightarrow to [] , then press SET until the incorrect character is selected.

2) Press $\Delta/\nabla/\leftarrow/\rightarrow$ to move \rightarrow to [] , then press SET to erase the character.

3) Press $\Delta/\nabla/\leftarrow/\rightarrow$ to move \rightarrow in front of the correct character, then press SET to enter the correct character.

5. Press $\Delta/\nabla/\leftarrow/\rightarrow$ to move \rightarrow to "DISC 1: MICHAEL (in this example)," then press SET.
 The TITLE INPUT: DISC TITLE screen appears.

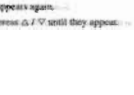
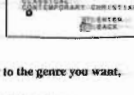
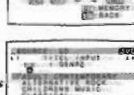
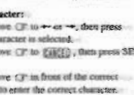
6. Enter the disc title, referring to steps 3 and 4.

• If the current CD is a CD-TEXT, go to the next step without entering the disc title.

7. Press $\Delta/\nabla/\leftarrow/\rightarrow$ to move \rightarrow to "DISC 1: MY FAVORITE (in this example)," then press SET.
 The TITLE INPUT: DISC 1 GENRE screen appears.

8. Press Δ/∇ to move \rightarrow to the genre you want, then press SET.
 The Disc Information screen appears again.

To show the unseen genres, press Δ/∇ until they appear.



For the MD recorder:

You can write the disc information (disc title and song title) into the disc. You can only write the song title for the song currently selected.

• If you have the CD-MD combination deck, you can also enter the disc information (its performer, disc title, and its music genre) of normal audio CDs into the memory built in the CD-MD combination deck. (To do this, follow the procedure of "For the CD Player with the disc memory function" to the left.)

• If you change the disc or song title with more than 32 characters, the characters following 32nd will be erased from the title.

1. Press TEXT DISPLAY while "MD" is selected as the source.
 The Disc Information screen appears on the TV.

2. Press Δ/∇ to move \rightarrow to "TITLE INPUT," then press SET.
 The DISC TITLE INPUT screen appears.

3. Enter the title, referring to steps 3 and 4 of "For the CD Player with the disc memory function" to the left.

• You can enter up to 32 characters for the disc title.

4. Press $\Delta/\nabla/\leftarrow/\rightarrow$ to move \rightarrow to the disc title you have just entered, then press SET.

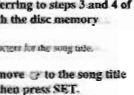
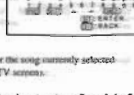
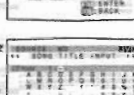
The disc title is stored into the memory, and the SONG TITLE INPUT screen for the currently selected song appears.

• You can enter a song title for the song currently selected (indicated in yellow on the TV screen).

5. Enter the song title, referring to steps 3 and 4 of "For the CD Player with the disc memory function" to the left.

• You can enter up to 32 characters for the song title.

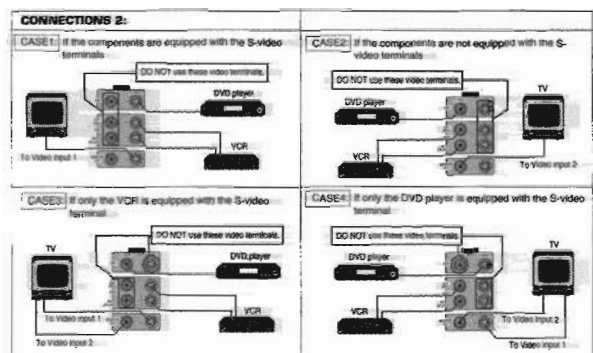
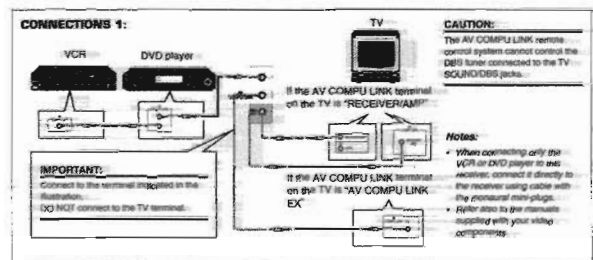
6. Press $\Delta/\nabla/\leftarrow/\rightarrow$ to move \rightarrow to the song title you have just entered, then press SET.
 The song title is stored into the memory, and the Disc Information screen appears again.



AV COMPU LINK Remote Control System

The AV COMPU LINK remote control system allows you to operate VCR, DVD player, and DVD player through the receiver.

To use this remote control system, you need to connect the video components you want to operate, following the diagrams below and the procedure on the next page.



- If you have already plugged your VCR, DVD player, TV, and this receiver into the AC outlets, unplug their AC power cords first.
- Connect your VCR, DVD player, TV, and this receiver as follows, using the cables with the monaural mini-plugs (not supplied).
 - See "CONNECTIONS 1" on the previous page.
- Connect the audio input/output jacks on VCR, DVD player, TV, and this receiver using the cables with RCA pin plug.
 - See pages 6 and 7.
- Connect the video input/output jacks on VCR, DVD player, TV, and this receiver, using the cables with RCA pin plug or with S-video plug.
 - See "CONNECTIONS 2" on the previous page.
- Plug the AC power cords of the components into the AC outlets.
- When turning on the TV for the first time after the AV COMPU LINK connection, turn the TV volume to the minimum using the TV volume control on the TV.
- Turn on the other connected components first, then turn on this receiver.
 - When turning on the VCR, use the remote control supplied with this receiver (press VCR POWER).

The AV COMPU LINK remote control system allows you to use the five basic functions listed below.

Remote Control of the TV, DVD player, and VCR Using This Remote Control

- See page 43 for details.
- For the DVD player and the VCR:**
- Aim the remote control directly at the remote sensor on each component.
- For the TV having AV COMPU LINK terminal "RECEIVER/AMP":**
- Aim the remote control directly at the remote sensor on the receiver.
- For the TV having AV COMPU LINK terminal "AV COMPU LINK EX":**
- Aim the remote control directly at the remote sensor on the TV.

One-Touch Video Play

Simply by inserting a video cassette without its safety tab into the VCR, you can enjoy the video playback without setting other switches manually. The receiver automatically turns on and changes the source to "VCR". The TV automatically turns on and changes the input mode to the position so that you can view the playback picture.

When you insert a video cassette with its safety tab, press the play button on the VCR or on the remote control. So, you can get the same results.

One-Touch DVD Play

Simply by starting playback on the DVD player, you can enjoy the DVD playback without setting other switches manually.

- When the DVD player is connected through the analog input jacks on this receiver (and analog input is selected), the receiver automatically turns on and changes the source to "DVD" or "DVD MULTI".
- When the DVD player is connected through the digital input terminal on this receiver (and digital input is selected), the receiver automatically turns on and changes the source to "DVD DIGITAL".

The TV automatically turns on and changes the input mode to the position so that you can view the playback picture.

Automatic Selection of TV's Input Mode

- When you select "TV SOUND" (or "TV DIGITAL") as the source to play on the receiver, the TV automatically changes the input mode to the TV tuner so that you can watch TV.
- When you select "DVD" (or "DVD DIGITAL"), "DVD MULTI", "VCR", or "DTS" (or "DTS DIGITAL") as the source to play on the receiver, the TV automatically changes the input mode to the appropriate position (either Video Input 1 or Video Input 2) so that you can view the playback picture.

Note:

When you select "TV SOUND" (or "TV DIGITAL") as the source on the receiver, you cannot see the menu on the TV screen since the AV COMPU LINK remote control system automatically changes the TV's input mode to the TV tuner. If you do not need stopping listening to the TV sounds, you can remove the on-screen display after changing the TV's input mode to the appropriate position (either Video Input 1 or Video Input 2) the receiver is connected to.

Automatic Power On/Off

The TV, VCR, and DVD player turn on and off along with the receiver.

- When you turn on the receiver:
 - If the previously selected source is "VCR," the TV and VCR will turn on automatically.
 - If the previously selected source is "TV SOUND" (or "TV DIGITAL") or "DTS" (or "DTS DIGITAL"), only the TV will turn on automatically.
 - If the previously selected source is "DVD" (or "DVD DIGITAL") or "DVD MULTI" the TV and DVD player will turn on automatically.
- When you turn off the receiver, the TV, VCR and the DVD player will turn off.

Note:

If you turn off the receiver while recording on the VCR, the VCR will not turn off, but continue recording.

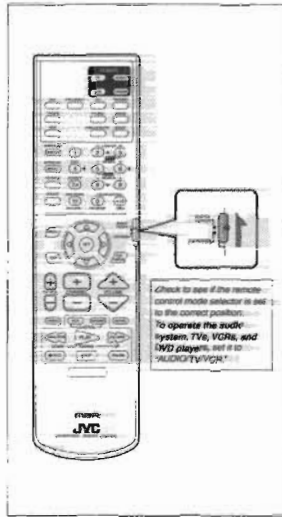
Operating JVC's Audio/Video Components

You can operate JVC's audio and video components with this receiver's remote control, since control signals for JVC components are preset in the remote control.

Operating Audio Components

IMPORTANT:

- To operate JVC's audio components using this remote control:
- You need to connect JVC audio components through the COMPU LINK jacks (see page 33) in addition to the connections using cables with RCA pin plugs (see pages 5 and 6).
 - Some JVC VCRs can accept two types of the control signals: "A" and "B." Before using this remote control, make sure that the remote control code of the VCR connected to the VCR jacks is set to code "A."
 - When using the remote control:
 - For the DVD player and VCR operations, aim the remote control directly at the remote sensor on each component, not on the receiver.
 - For the TV operations:
 - If the TV has the AV COMPU LINK terminal "RECEIVER/AMP," aim the remote control directly at the remote sensor on the receiver.
 - If the TV has the AV COMPU LINK terminal "AV COMPU LINK EX," aim the remote control directly at the remote sensor on the TV.
 - Refer also to the manuals supplied with your components.



Tuner

You can always perform the following operations (with the remote control mode selector set to "AUDIO/TV/VCR"):

- FM/AM:** Alternates between FM and AM.
- After pressing FM/AM (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations:
- 1 - 10, 410: Selects a preset channel number directly.
 - For channel number 5, press 5.
 - For channel number 15, press 410, then 5.
 - For channel number 20, press 410, then 10.
- TUNING UP/TUNING DOWN:** Tunes into stations.
- FM MODE:** Changes the FM reception mode.

Sound control section (Amplifier)

You can always perform the following operations (with the remote control mode selector set to "AUDIO/TV/VCR"):

- SURROUND ON/OFF:** Turns on or off the Surround modes - Dolby Pro Logic, Dolby Digital, and DTS Digital Surround.
- SURROUND MODE:** Selects the DSP modes.
- After pressing SOUND (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations:
- SEA MODE:** Changes the SEA modes.
 - SUBWOOFER - / +:** Adjusts the subwoofer output level.
 - CENTER - / +:** Adjusts the center speaker output level.
 - REARFL - / +:** Adjusts the left rear speaker output level.
 - REARFR - / +:** Adjusts the right rear speaker output level.
 - EFFECT:** Selects the effect level.
 - TEST:** Turns on or off the test tone output.

Note:

After adjusting sounds, press the corresponding source selecting button or COM-SEL to operate your target source by using the 10 keys; otherwise, the 10 keys cannot be used for operating your target source.

CD player

After pressing CD (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on the CD player:

- PLAY:** Starts playing.
- REW:** Returns to the beginning of the current (or previous) track.
- FF:** Skips to the beginning of the next track.
- STOP:** Stops playing.
- PAUSE:** Pauses playing. To resume it, press PLAY.
- 1 - 10, 410: Selects a track number directly.
 - For track number 5, press 5.
 - For track number 15, press 410, then 5.
 - For track number 20, press 410, then 10.
 - For track number 30, press 410, then 10, then 10.

CD player-changer

After pressing CD-CHG (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on a CD player-changer.

- PLAY:** Starts playing.
- REW:** Returns to the beginning of the current (or previous) track.
- FF:** Skips to the beginning of the next track.
- STOP:** Stops playing.
- PAUSE:** Pauses playing. To resume it, press PLAY.
- 1 - 6, 79: Selects the number of a disc inserted in a CD player-changer.

After pressing CD (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on the CD player-changer:

- 1 - 10, 410: Selects a track number directly.
 - For track number 5, press 5.
 - For track number 15, press 410, then 5.
 - For track number 20, press 410, then 10.
 - For track number 30, press 410, then 10, then 10.

If your CD changer is of 200-disc loading capability (except for XL-MC100 and XL-MC301) you can do the following operations using the number buttons after pressing CD:

- Select a disc number.
 - Then select a track number (always enter two digits).
 - Start playback.
- EXAMPLES:**
- Selecting disc number 3, track number 2, and starting playback. Press 3, then 0, 2, then **▶**.
 - Selecting disc number 15, track number 5, and starting playback. Press 1, 0, then 0, 5, then **▶**.
 - Selecting disc number 105, track number 12, and starting playback. Press 1, 0, 5, then 1, 2, then **▶**.

Tape Deck

After pressing PHONO (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on a tape deck:

- PLAY:** Starts playing.
- STOP:** Stops operations.

Cassette Deck

After pressing TAPE/MD or TAPE/MD CONTROL (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on a cassette deck:

- PLAY:** Starts playing.
- FF:** Fast winds the tape from left to right.
- REW:** Fast winds the tape from right to left.
- STOP:** Stops operations.
- PAUSE:** Pauses playing. To resume it, press PLAY.
- REC:** Presses this button with the PLAY button to start recording. Press this button with the PAUSE button to enter recording pause.

MD recorder

After pressing TAPE/MD or TAPE/MD CONTROL (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on the MD recorder:

- PLAY:** Starts playing.
- REW:** Returns to the beginning of the current (or previous) track.
- FF:** Skips to the beginning of the next track.
- STOP:** Stops playing.
- PAUSE:** Pauses playing. To resume it, press PLAY.
- REC:** Presses this button with the PLAY button to start recording. Press this button with the PAUSE button to enter recording pause.

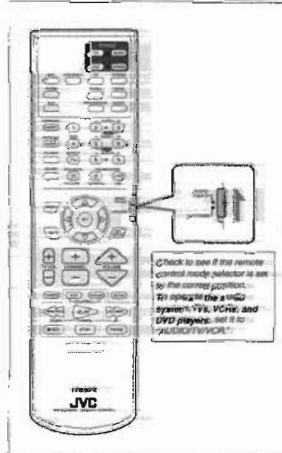
Note:

You can use either TAPE/MD button or the TAPE/MD CONTROL button to activate the buttons listed above. If you press TAPE/MD button, the playing source also changes. On the other hand, if you press TAPE/MD CONTROL, the playing source does not change.

Operating Video Components

IMPORTANT:

- To operate JVC's video components using this remote control:
- You need to connect JVC video components through the AV COMPU LINK terminals (see page 42) in addition to the connections using cables with RCA pin plugs (see pages 4 and 7).
 - Some JVC VCRs can accept two types of the control signals: "A" and "B." Before using this remote control, make sure that the remote control code of the VCR connected to the VCR jacks is set to code "A."
 - When using the remote control:
 - For the DVD player and VCR operations, aim the remote control directly at the remote sensor on each component, not on the receiver.
 - For the TV operations:
 - If the TV has the AV COMPU LINK terminal "RECEIVER/AMP," aim the remote control directly at the remote sensor on the receiver.
 - If the TV has the AV COMPU LINK terminal "AV COMPU LINK EX," aim the remote control directly at the remote sensor on the TV.



VCR

You can always perform the following operations (with the remote control mode selector set to "AUDIO/TV/VCR"):

- VCR POWER:** Turns on or off the VCR.
- After pressing VCR or VCR CONTROL (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on the VCR:
- 1 - 9, 0: Selects the TV channels on VCR.
 - PLAY:** Starts playing.
 - REW:** Returns to the beginning of the current (or previous) track.
 - FF:** Skips to the beginning of the next track.
 - STOP:** Stops operations.
 - PAUSE:** Pauses playing. To resume it, press PLAY.
 - REC:** Presses this button with the PLAY button to start recording. Press this button with the PAUSE button to enter recording pause.
 - CHANNEL +/-:** Changes the TV channel on the VCR.

Note:

You can use either VCR button or the VCR CONTROL button to activate the buttons listed above. If you press VCR, the playing source also changes. On the other hand, if you press VCR CONTROL, the playing source does not change.

DVR player

After pressing DVD or DVD MULTI (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on a DVD player:

- PLAY:** Starts playing.
 - REW:** Returns to the beginning of the current (or previous) track.
 - FF:** Skips to the beginning of the next track.
 - STOP:** Stops playing.
 - PAUSE:** Stops playing temporarily. To resume it, press PLAY.
- After pressing DVD or DVD MULTI, these buttons can be used for the DVD menu operations:
-
- Note:**
- For getting menu operations, refer to the instructions supplied with the player or the DVD player.

TV

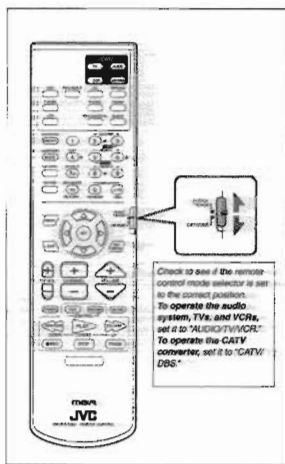
You can always perform the following operations (with the remote control mode selector set to "AUDIO/TV/VCR"):

- TV POWER:** Turns on or off the TV.
- TV VOL +/-:** Adjusts the volume.
- TV VIDEO +/-:** Sets the input mode (either TV or VIDEO).
- After pressing TV/BS (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on a TV:
- CHANNEL +/-:** Changes the channels.
 - 1 - 9, 0, 100: Selects the channels.
 - RETURN:** Alternates between the previously selected channel and the current channel.

Operating Other Manufacturers' Video Equipment

This remote control supplied with the receiver can transmit control signals for other manufacturers' VCRs, TVs, and CATV converters. By changing the transmittable signals from preset ones to the manufacturers', you can operate the other manufacturers' components using this remote control.

When operating the other manufacturers' components, refer also to the manuals supplied with them. To operate these components with the remote control, first you need to set the manufacturer's code each for VCR, TV, and CATV converters.



To change the transmittable signals for operating another manufacturer's TV

1. Set the remote control mode to "AUDIO/TV/VCR."
2. Press and hold TV POWER.
3. Press TV/DBS.
4. Enter manufacturer's code (two digits) using buttons 1-9, and 0.

See the list below to find the code.
 Examples: For a JVC product, press 0, 1.
 For a SANYO product, press 1, 3.

5. Release TV POWER.
 The following buttons can be used for operating the TV (with the remote control mode selector set to "AUDIO/TV/VCR"):

- TV POWER Turns on and off the TV.
- TV VOL +/- Adjusts the volume.
- TV/VIDEO Sets the input mode (either TV or VIDEO).

After pressing TV/DBS (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on a TV:

- CHANNEL +/- Changes the channels.
- 1-10, 0, 100+ (+10) Selects the channels. The 100+ (+10) button will function as the ENTER button if your TV requires pressing ENTER after selecting a channel number.

Note: Refer to the manual supplied with your TV.

6. Try to operate your TV by pressing TV POWER. When your TV turns on or off, you have entered the correct code.

If there are more than one code listed for your brand of TV, try each one until the correct one is entered.

Manufacturer	Code	Manufacturer	Code
JVC	01	SAMSUNG	12
HITACHI	10	SANYO	13
MAGNAVOX	02	SHARP	06
MITSUBISHI	03	SONY	07
PANASONIC	04, 11	TOSHIBA	08
RCA	05	ZENITH	09

Manufacturers' codes are subject to change without notice. If they are changed, this remote control cannot operate the equipment.

To change the transmittable signals for operating a CATV converter

1. Set the remote control mode to "CATV/DBS."
2. Press and hold CATV/DBS POWER.
3. Press TV/DBS.
4. Enter manufacturer's code (two digits) using buttons 1-9, and 0.

See the list below to find the code.
 Examples: For an RCA product, press 1, 9.
 For a SONY product, press 2, 0.

5. Release CATV/DBS POWER.
 After setting the remote control mode selector to "CATV/DBS", you can perform the following operations on the CATV converter:

- CATV/DBS POWER Turns on and off the CATV converter.
- CHANNEL +/- Changes the channels. The 100+ (+10) button will function as the ENTER button if your equipment requires pressing ENTER after selecting a channel number.

Note: Refer to the manual supplied with your CATV converter.

6. Try to operate your CATV converter by pressing CATV/DBS POWER. When your CATV converter turns on or off, you have entered the correct code.

If there are more than one code listed for your brand of CATV converter, try each one until the correct one is entered.

Manufacturer	Codes
PHOSHYAR	21
GI JERROLD	01, 02, 03, 04, 05, 06, 07, 08
HAMEL/NEGAL	13, 16, 17, 18
PIONEER	13, 14
RCA	19
SCIENTIFIC ATLANTA	09, 10
SONY	20
ZENITH	11, 12

Manufacturers' codes are subject to change without notice. If they are changed, this remote control cannot operate the equipment.

To change the transmittable signals for operating another manufacturer's VCR

1. Set the remote control mode to "AUDIO/TV/VCR."
2. Press and hold VCR POWER.
3. Press VCR.
4. Enter manufacturer's code (two digits) using buttons 1-9, and 0.

See the list below to find the code.
 Examples: For a JVC product, press 0, 1.
 For an NEC product, press 2, 5.

5. Release VCR POWER.
 The following buttons can be used for operating the VCR (with the remote control mode selector set to "AUDIO/TV/VCR"):

- VCR POWER Turns on and off the VCR.
- After pressing VCR or VCR CONTROL (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on the VCR:

CHANNEL +/- Changes the TV channels on the VCR.

- 1-10, 0, 100+ (+10) Selects the TV channels. The 100+ (+10) button will function as the ENTER button if your VCR requires pressing ENTER after selecting a channel number.

PLAY Starts playback.

REWIND Rewinds a video tape.

STOP Stops operation.

PAUSE Pauses.

REC Starts recording or enters recording pause.

Note: Refer to the manual supplied with your VCR.

You can use either VCR/OUT or the VCR CONTROL button to activate the buttons listed above. If you press VCR, the playing power also changes. On the other hand, if you press VCR CONTROL, the playing sound does not change.

6. Try to operate your VCR by pressing VCR POWER. When your VCR turns on or off, you have entered the correct code.

If there are more than one code listed for your brand of VCR, try each one until the correct one is entered.

Manufacturer	Codes	Manufacturer	Codes
JVC	01, 02, 03	PHILIPS	06
EMERSON	11, 28	RCA	05, 08
FISHER	29	SAMSUNG	24
FUNAI	10, 14, 15, 16	SANYO	21, 22, 23
GOLD STAR	12	SHARP	27, 28
HITACHI	04	SHINOMO	30
MITSUBISHI	13	SONY	18, 19, 20
NEC	25	ZENITH	09
PANASONIC	07, 17		

Manufacturers' codes are subject to change without notice. If they are changed, this remote control cannot operate the equipment.

Troubleshooting

Use this chart to help you solve daily operational problems. If there is any problem you cannot solve, contact your JVC service center.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The display does not light up.	The power cord is not plugged in.	Plug the power cord into an AC outlet.
No sound from speakers.	Speaker signal cables are not connected.	Check speaker wiring and connections if necessary.
	The SPEAKERS 1 and 2 buttons were not on correctly.	Press SPEAKERS 1 and 2 correctly.
	An incorrect source is selected.	Select the correct source.
	Muting is activated.	Press MUTE to cancel the mute.
Sound from one speaker only.	Speaker signal cables are not connected properly.	Check speaker wiring and connections if necessary.
	The balance is set to one extreme.	Adjust the balance properly (see page 12).
Continuous hiss or buzzing during FM reception.	Incoming signal is too weak.	Connect an outdoor FM antenna (not sold).
	The display is too far away.	Select closer stations.
	An incorrect antenna is used.	Check with your dealer to be sure you have the correct antenna.
	Antennas are not connected properly.	Check connections.
Occasional cracking noise during FM reception.	Ignition noise from automobiles.	Move the antenna farther from automobile traffic.
No colors on the television display.	The color system of the television TV is not NTSC.	Connect an NTSC VCR.
Howling during stereo playing.	Your surround is one's line to speakers.	Move speakers away from the surround.
"OVERLOAD" starts flashing on the display.	Speakers are overloaded because of high volume.	1. Press POWER on the front panel to turn off the receiver. 2. Stop the playback source. 3. Turn on the receiver again, and adjust the volume.
	Speakers are overloaded because of short circuit of speaker terminals.	Press POWER on the front panel, then check the speaker wiring. If "OVERLOAD" does not disappear, unplug the AC power cord, then plug it back again. If speaker wiring is not short-circuited, contact your dealer.
Remote controls does not work.	The remote control mode selector is not on correctly.	Set the selector correctly either to "AUDIO/TV/VCR" or to "CATV/DBS."
	There is an obstruction in front of the remote sensor on the receiver.	Remove the obstruction.
	Batteries are weak.	Replace batteries.

Specifications

Amplifier	Output Power	At Stereo operation	110 W per channel, min. RMS, driven into 8 Ω, 20 Hz to 20 kHz with no more than 0.06% total harmonic distortion.
		At Mono operation	160 W per channel, min. RMS, driven into 8 Ω at 20 Hz with no more than 0.06% total harmonic distortion.
		At Stereo operation	160 W per channel, min. RMS, driven into 8 Ω at 2 kHz with no more than 0.06% total harmonic distortion.
		At Mono operation	160 W per channel, min. RMS, driven into 8 Ω at 2 kHz with no more than 0.06% total harmonic distortion.
		At Stereo operation	160 W per channel, min. RMS, driven into 8 Ω at 20 kHz with no more than 0.06% total harmonic distortion.
		At Mono operation	160 W per channel, min. RMS, driven into 8 Ω at 20 kHz with no more than 0.06% total harmonic distortion.
Audio	Audio Input Sensitivity (Impedance: 1 kΩ)	PHONO (MM)	2.5 mV/47 kΩ
		CD, TAPE/MD, TV SOUND/DBS, VCR, DVD	250 mV/75 Ω
	Audio Input (DIGITAL IN)*	Coaxial: DIGITAL 1 (DVI-D)	0.6 V/p-p/75 Ω
		Optical: FIBER/DIGITAL 2 (DVI-D)	20 dBm (0.125 W) into 50 Ω
		*Corresponding to Linear PCM, Dolby Digital, and DTS Digital Surround (with sampling frequency = 32 kHz, 44.1 kHz, 48 kHz).	
	Audio Output Level	TAPE/MD, VCR	300 mV
		Digital output: Optical, DIGITAL OUTPUT	Signal wave length: 50 Ω, output level: -20 dBm to +20 dBm
	Signal-to-Noise Ratio (16 BIT/78 dB)	PHONO, CD, TAPE/MD, TV SOUND/DBS, VCR, DVD	20 dB/1% (20 kHz) (at REC) (C) 33
		CD, TAPE/MD, TV SOUND/DBS, VCR, DVD	32 dB/0.5%
	Frequency Response (0 dB)	PHONO	20 Hz to 20 kHz (at 1 dB)
		CD, TAPE/MD, TV SOUND/DBS, VCR, DVD	20 Hz to 20 kHz (at 0.5 dB)
	RTA Flatness Equalization		+1.0 dB (20 Hz to 20 kHz)
			±0.5 dB at 100 Hz (Volume control at 0 dB)
			±0.5 dB at 1 kHz (Volume control at 0 dB)
			±0.5 dB at 20 kHz (Volume control at 0 dB)
Video	Video Input Sensitivity (Impedance)	Composite video: TV SOUND/DBS, VCR, DVD	1 V/p-p/75 Ω
		S-video: TV SOUND/DBS, VCR, DVD	(C) 1 V/p-p/75 Ω
		(C) Chrominance burst	(C) 0.286 V/p-p/75 Ω
	Video Output Level	VCR, MONITOR OUT	1 V/p-p/75 Ω
		S-video: VCR, MONITOR OUT	(C) 1 V/p-p/75 Ω
		(C) Chrominance burst	(C) 0.286 V/p-p/75 Ω
	Synchronization		Negative
	Signal-to-Noise Ratio		45 dB
	On-Screen Color System		NTSC

RX-7000VBK

FM tuner (DR)

Tuning Range:	87.5 MHz to 108.0 MHz	
Usable Sensitivity:	Monaural:	12.8 dBf (1.2 µV/75 Ω)
50 dB Quieting Sensitivity:	Monaural:	21.3 dBf (3.3 µV/75 Ω)
	Stereo:	41.3 dBf (31.5 µV/75 Ω)
Signal-to-Noise Ratio (IHF-A weighted):	Monaural:	78 dB at 85 dBf
	Stereo:	73 dB at 85 dBf
Total Harmonic Distortion:	Monaural:	0.4% at 1 kHz
	Stereo:	0.6% at 1 kHz
Stereo Separation at REC OUT:	35 dB at 1 kHz	
Alternate Channel Selectivity:	45 dB (1400 kHz)	
Frequency Response:	30 Hz to 15 kHz (±0.5 dB, -3 dB)	

AM tuner

Tuning Range:	530 kHz to 1710 kHz	
Usable Sensitivity:	Loop antenna:	400 µV/m
Signal-to-Noise Ratio:	50 dB (1100 mV/m)	

General

Power Requirements:	AC 120V [~] , 60 Hz
Power Consumption:	320 watts (20 VA in operation) 2 watts (in standby mode)
Dimensions (W x H x D):	435 mm x 137 mm x 412.5 mm (17 1/8 in. x 5 3/8 in. x 16 1/4 in.)
Mass:	11.9 kg (26.3 lbs)

Designs & specifications are subject to change without notice.

QUALITY **JVC** SERVICE

HOW TO LOCATE YOUR JVC SERVICE CENTER

TOLL FREE : 1-800-537-6722
http://www.jvc-service.com

Dear customer: In order to receive the most satisfaction from your purchase, read the instruction booklet before operating the unit. In the event that repair is necessary, or for the address nearest your location, please refer to the factory service center list below or within the Continental United States, call 1-800-537-6722 for your authorized service. Remember to retain your Bill of Sale for Warranty Service.

—JVC

JVC SERVICE & ENGINEERING COMPANY OF AMERICA DIVISION OF JVC AMERICAS CORP.

FACTORY SERVICE CENTER LOCATIONS

10 New Maple Avenue Pine Brook, NJ 07058-8641 (973) 396-1000	1500 Lakes Parkway Lawrenceville, GA 30243-5857 (770) 339-2382	705 Enterprise Street Aurora, IL 60504-8149 (630) 851-7855
5616 Corporate Avenue Cypress, CA 90630-0224 (714) 423-8111	2969 Mapunapuna Place Honolulu, HI 96819-2040 (808) 833-5628	10700 Hammerly, Suite 110 Houston, TX 77043 (713) 935-9331
13 Cummings Park Woburn, MA 01801 (781) 376-9100	3192 State Road 84 Davie, FL 33324 (954) 472-1960	800 Dubouge Avenue South San Francisco, CA 94080-1804 (650) 871-2666

Sophisticated electronic products may require occasional service. Just as quality is a keyword in the engineering and production of the wide array of JVC products, service is the key to maintaining the high level of performance for which JVC is world famous. The JVC service and engineering organization stands behind our products.

NATIONAL HEADQUARTERS
JVC SERVICE & ENGINEERING COMPANY OF AMERICA
DIVISION OF JVC AMERICAS CORP.
1700 Valley Road
Wayne, NJ 07470

If you ship the product • • •

Pack your JVC unit in the original carton or one of equivalent size and strength. Enclose, with the unit, a letter stating the problem or symptom that exists and also a copy of the receipt or bill of sale you received when you purchased your JVC unit. Print your home return address on the outside and the inside of the carton. Send to the appropriate JVC Factory Service Center as listed above.

Don't service it yourself.

CAUTION

To prevent electrical shock, do not open the cabinet. No user serviceable parts inside.
Refer servicing to qualified service personnel.

ACCESSORIES

To purchase accessories for your JVC product, you may contact your local JVC Dealer. Or from the 48 Continental United States call toll free - 800-537-6722.

50

(1689)

JVC LIMITED WARRANTY AUDIO-2

JVC COMPANY OF AMERICA warrants this product and all parts thereof, except as set forth below ONLY TO THE ORIGINAL PURCHASER AT RETAIL to be FREE FROM DEFECTIVE MATERIAL AND WORKMANSHIP from the date of original retail purchase for the period as shown below. (The Warranty Period).

PARTS	2YR	LABOR	2YR
-------	-----	-------	-----

THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY(50) UNITED STATES, THE DISTRICT OF COLUMBIA AND IN COMMONWEALTH OF PUERTO RICO.

WHAT WE WILL DO:

If the product is found to be defective, JVC will repair or replace defective parts at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during normal business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products and parts thereof may be brought to a JVC authorized service center on a case-by-case basis except for television sets having a screen size 20 inches and above which are covered on an in-home basis.

WHAT YOU MUST DO FOR WARRANTY SERVICE:

Return your product to a JVC authorized service center with a copy of your bill of sale. For your nearest JVC authorized service center, please call toll free: 800-537-6722.
If service is not available locally, box the product carefully, preferably in the original carton, and ship, insured, with a copy of your bill of sale plus letter of explanation of the problem to the nearest JVC Factory Service Center, the name and address of which will be given to you by the toll-free number.
If you have any questions concerning your JVC Product, please contact our Customer Relations Department.

WHAT IS NOT COVERED:

- This limited warranty provided by JVC does NOT cover:
- Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, heavy use, overuse, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service; or if affixed to any attachment not provided with the product, or if the model number or serial number has been altered, tampered with, defaced or removed.
 - Initial installation and installation and removal for repair.
 - Operational adjustments covered in the Owner's Manual, normal maintenance, video and audio head cleaning.
 - Damage that occurs in shipment, due to act of God, and cosmetic damage.
 - Signal reception problems and failures due to line power surge.
 - Video Pick-up Tubes/CCD Image Sensor, Cartridge, Stylus(Heads) are covered for 90 days from the date of purchase.
 - Accessories.
 - Batteries (except the Rechargeable Batteries are covered for 90 days from the date of purchase).
- There are no express warranties except as listed above.

THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN.

JVC SHALL NOT BE LIABLE FOR THE LOSS OF USE OF THE PRODUCT, INCONVENIENCE, LOSS OR ANY OTHER DAMAGES, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS) RESULTING FROM THE USE OF THIS PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion of incidental or consequential damages or limitations on how long an implied warranty last, so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

JVC COMPANY OF AMERICA
DIVISION OF JVC AMERICAS CORP.

1700 Valley Road
Wayne, NJ 07470

REFURBISHED PRODUCTS CARRY A SEPARATE WARRANTY. THIS WARRANTY DOES NOT APPLY FOR DETAILS OF REFURBISHED PRODUCT WARRANTY. PLEASE REFER TO JVC REFURBISHED PRODUCT WARRANTY INFORMATION PACKAGED WITH EACH REFURBISHED PRODUCT.

For customer use:

Enter below the Model No. and Serial No. which is located either on the rear bottom or side of the cabinet. Retain this information for future reference.

Model No.: _____ Serial No.: _____
Purchase date: _____ Name of dealer: _____

Disassembly method

■ Removing the top cover (See Fig.1)

1. Remove the four screws A attaching the top cover on both sides of the body.
2. Remove the three screws B on the back of the body.
3. Remove the top cover from behind in the direction of the arrow while pulling both sides outward.

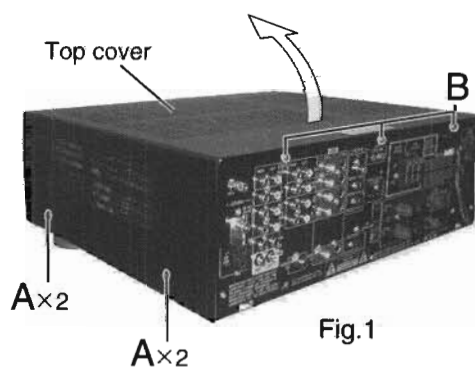


Fig.1

■ Removing the front panel assembly (See Fig.2 and 3)

- Prior to performing the following procedure, remove the top cover.

1. Disconnect the card wire from connector CN400 on the main board and CN402 on the power supply board in the front panel assembly.
2. Cut off the tie band fixing the harness.
3. Disconnect the harness from connector CN202 on the video board.
4. Remove the three screws C attaching the front panel assembly.
5. Remove the five screws D attaching the front panel assembly on the bottom of the body. Detach the front panel assembly toward the front.

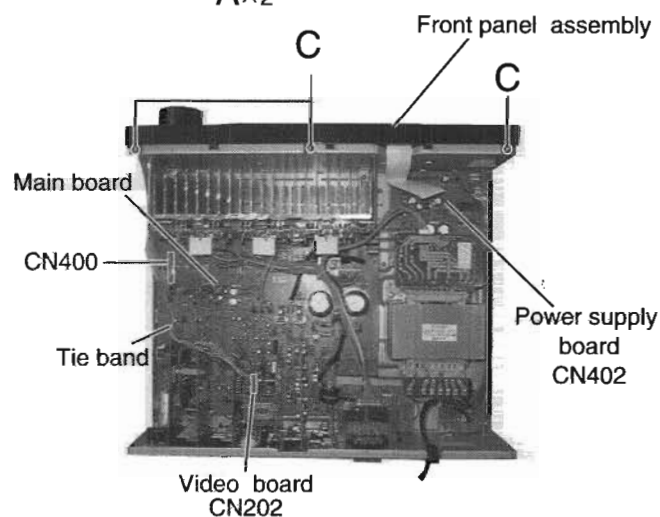


Fig.2

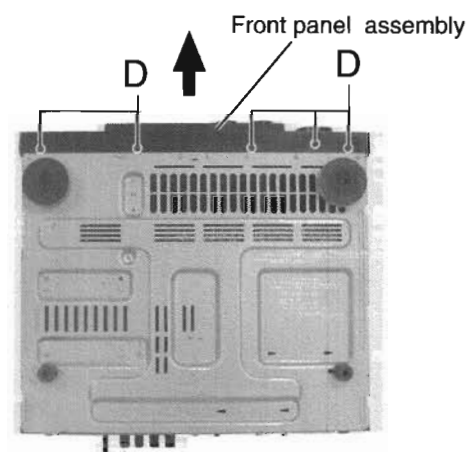


Fig.3

■ Removing the rear panel (See Fig.4)

- Prior to performing the following procedure, remove the top cover.

1. Remove the power cord stopper from the rear panel by moving it in the direction of the arrow.
2. Remove the twenty-six screws E attaching the each boards to the rear panel on the back of the body.
3. Remove the three screws F attaching the rear panel on the back of the body.

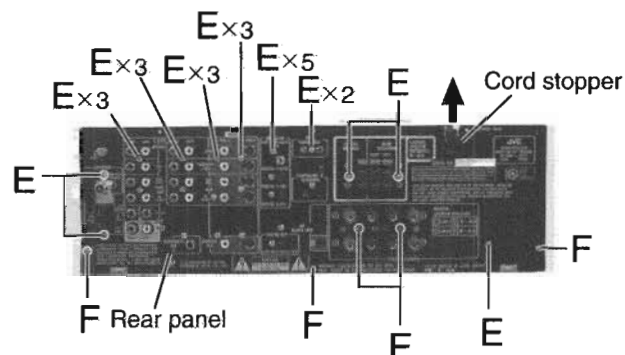
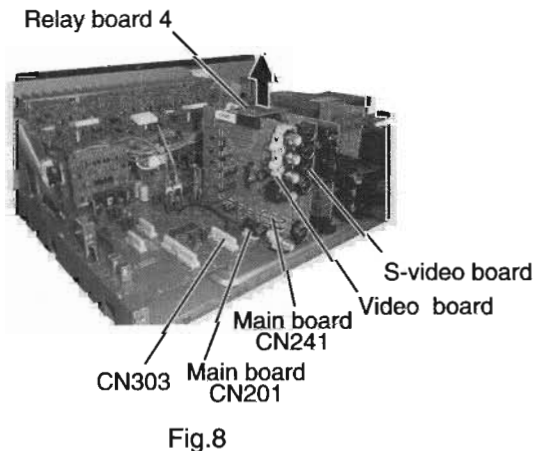
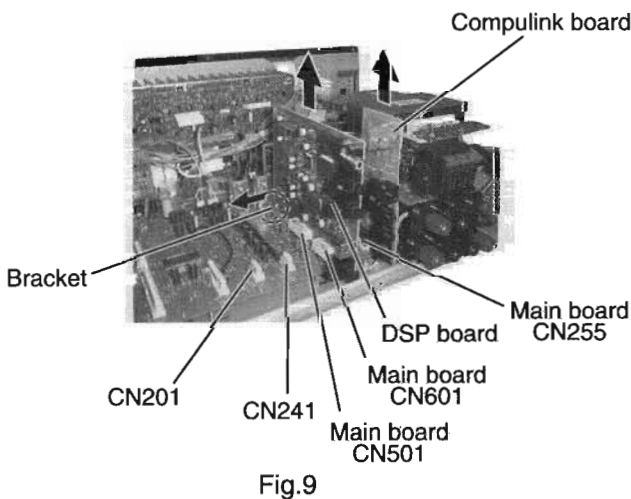
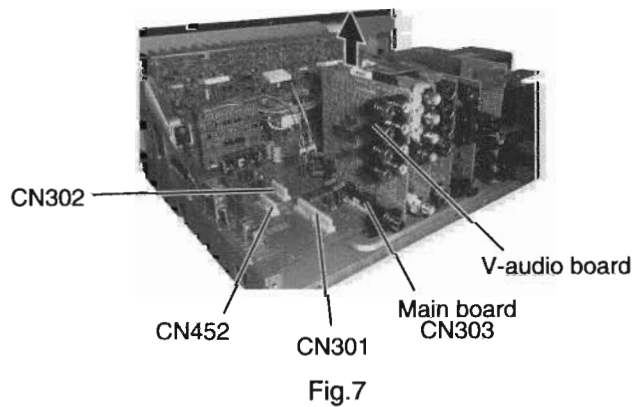
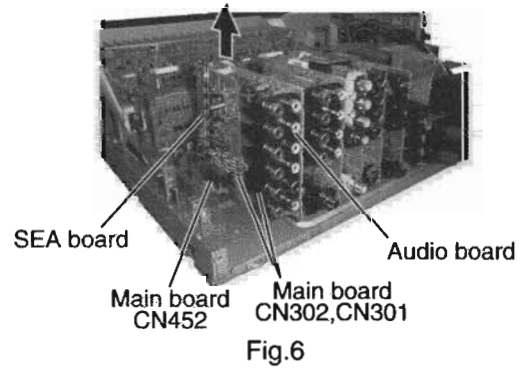
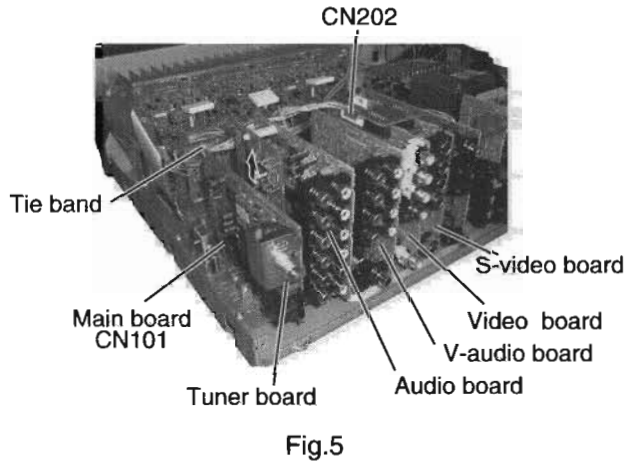


Fig.4

■ Removing each board connected to the rear side of the main board
(See Fig.5 to 9)

• Prior to performing the following procedure, remove the top cover and the rear panel.

1. Cut off the tie band fixing the harness.
2. Disconnect the harness from connector CN202 on the video board.
3. Disconnect the tuner board from connector CN101 on the main board.
4. Disconnect the SEA board and the audio board from connector CN452, CN301 and CN302 on the main board.
5. Disconnect the V-audio board from connector CN303 on the main board.
6. Disconnect the relay board 4. Then, disconnect the video board and the S-video board from connector CN201 and CN241 on the main board.
7. Disconnect the DSP board from connector CN501 and CN601 on the main board while removing the DSP board from the bracket fixing the lower part of the DSP board at the same time.
8. Disconnect the compulink board from connector CN255 on the main board.



■ Removing the main board / regulator board (See Fig.10 to 12)

- Prior to performing the following procedure, remove the top cover and the rear panel.

ATTENTION: It is not necessary to remove the boards connected to the back of the main board. But to disassemble the main board and the power supply board efficiently, remove them.

1. Disconnect the card wire from connector CN400 on the main board.
2. Cut off the three tie bands fixing the harnesses.
3. Disconnect the harness from connector CN811 on the power transformer board.
4. Disconnect the relay board 1,2 and 3 from the main board and the power supply board.
5. Disconnect the harness from connector CN704, CN821, CN901, CN711, CN712, CN931 and CN932.
6. Remove the screw G attaching the regulator board to the heat sink cover.
7. Remove the four screws H attaching the main board to the heat sink cover.
8. Remove the five screws I and the screw J attaching the main board to the chassis base (The resistor board will come off at the same time).

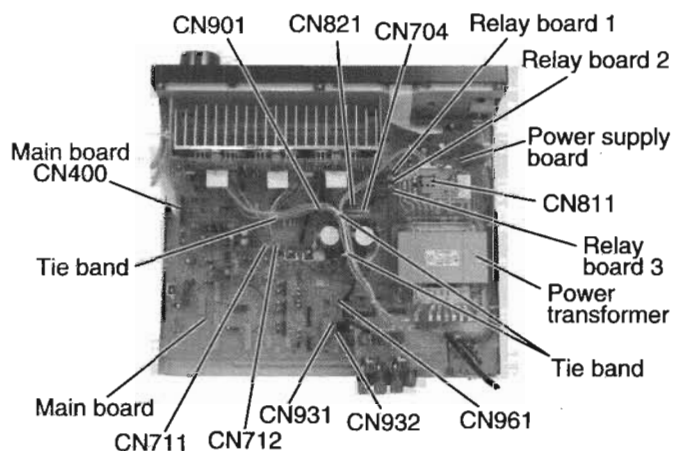


Fig.10

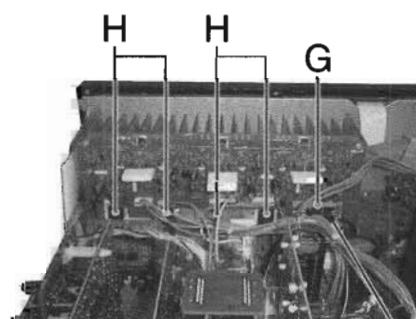


Fig.11 Regulator board

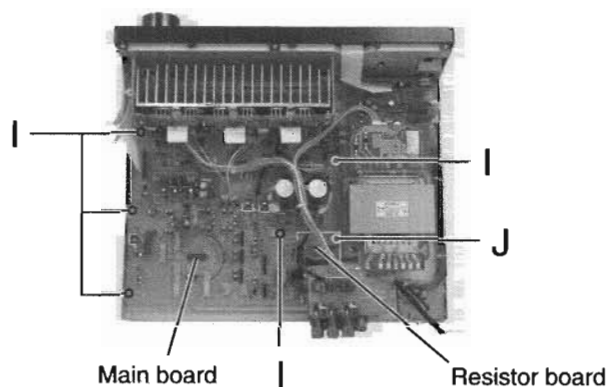


Fig.12

■ Removing the resistor board (See Fig.13)

- Prior to performing the following procedure, remove the top cover.

1. Disconnect the harness from connector CN881 on the resistor board.
2. Remove the screw J attaching the resistor board.

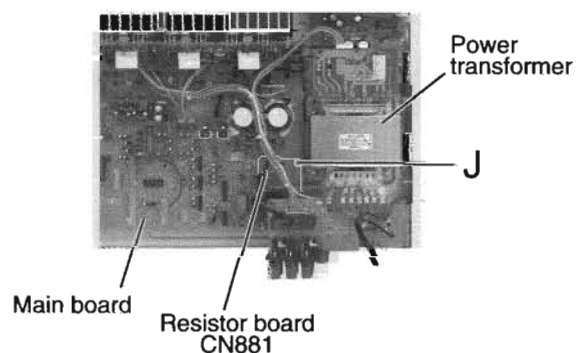


Fig.13

■ Removing the amplifier board
(See Fig.10 and 14)

• Prior to performing the following procedure, remove the top cover.

1. Cut off the four tie bands fixing the harnesses.
2. Disconnect the harnesses from connector CN711, CN712, CN704 and CN901 on the main board respectively.
3. Remove the four screws K and six screws L attaching the amplifier board.
4. If necessary, unsolder the harness connected to connector CN803 and CN952 on the amplifier board.

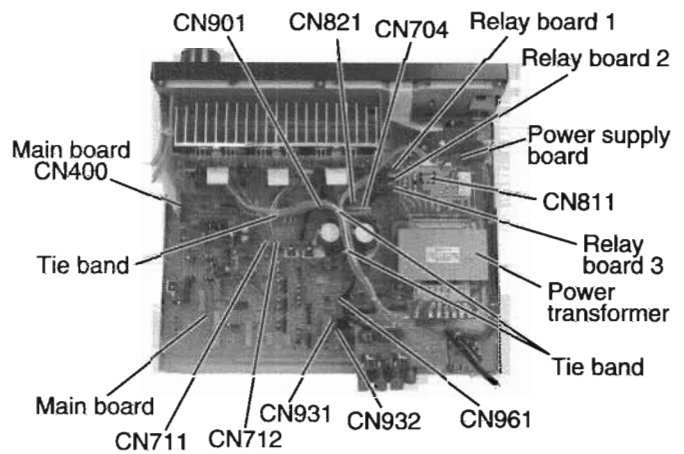


Fig.10

■ Removing the power transformer
(See Fig.15)

• Prior to performing the following procedures, remove the top cover.

1. Unsolder the two harnesses connected to the power transformer.
2. Disconnect the harness from connector CN811 and the harnesses connected to connector CN55 and CN56 on the power transformer board.
3. Remove the four screws M attaching the power transformer.

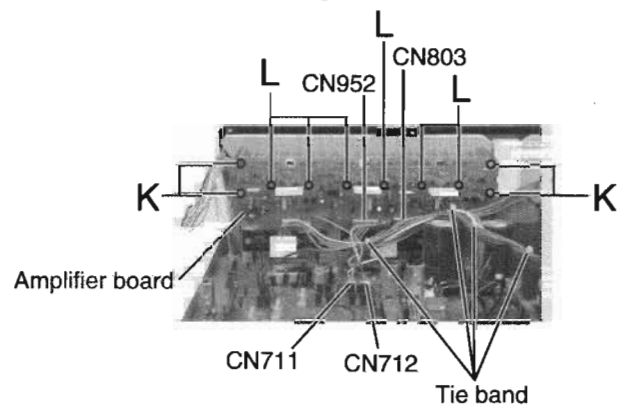


Fig.14

■ Removing the power / fuse board
(See Fig.16)

• Prior to performing the following procedure, remove the top cover and the rear panel.

1. Remove the screw N attaching the power / fuse board.
2. Unsolder the power cord and other harnesses connected to the power / fuse board.

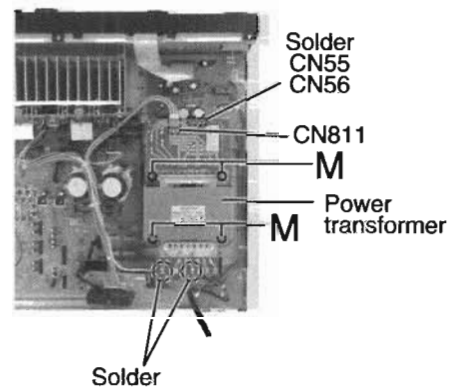


Fig.15

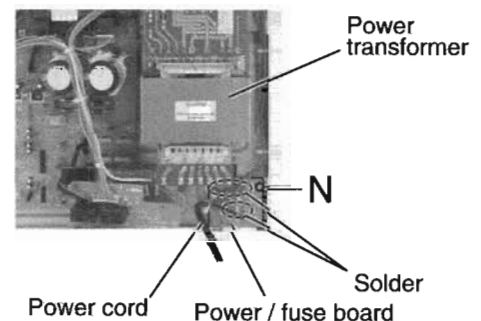


Fig.16

**■ Removing the power supply board
(See Fig.17 and 18)**

- Prior to performing the following procedure, remove the top cover and the front panel.
1. Remove the one nut attaching the headphone jack of the power supply board on the front side of the body.
 2. Disconnect the relay board 1, 2 and 3 from the power supply board and the main board respectively.
 3. Disconnect the harness connected to connector CN55 and CN56 on the power transformer board (If necessary, cut off the band fixing the harness on the side of the base chassis).
 4. Remove the four screws O attaching the power supply board and pull out the power supply board from the front bracket backward.
 5. Unsolder the three harnesses connected to the power supply board.

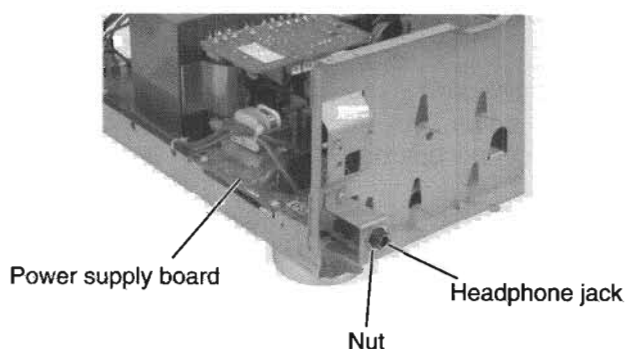


Fig.17

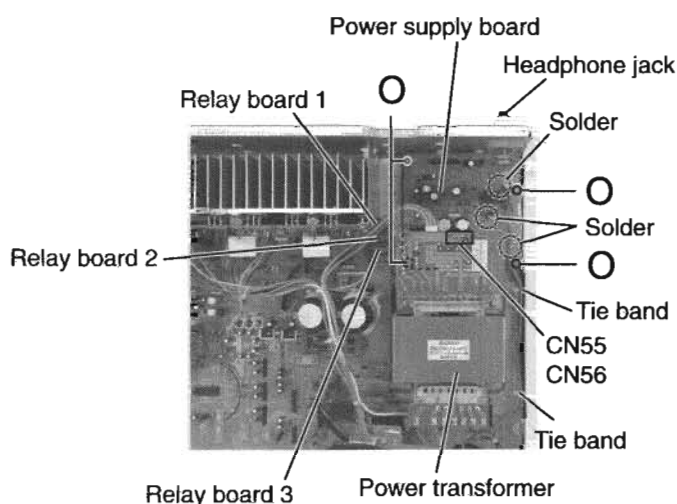


Fig.18

■ Removing the system control board / power switch board (See Fig.19 to 20)

- Prior to performing the following procedure, remove the top cover and the front panel assembly.
1. Pull out the volume knob on the front side of the front panel and remove the nut attaching the system control board.
 2. Remove the six screws P attaching the system control board on the back of the front panel and disconnect the harness from connector CN422 on the system control board.
 3. Disconnect the harness from connector CN430 on the power switch board.
 4. Remove the five screws Q attaching the power switch board.

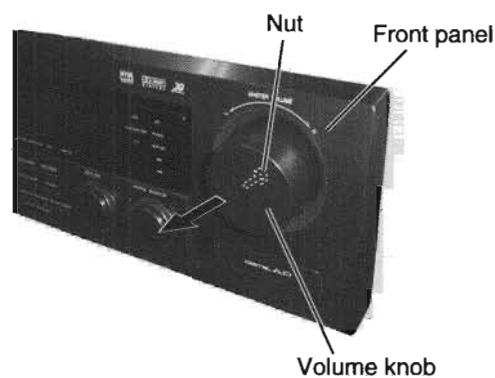


Fig.19

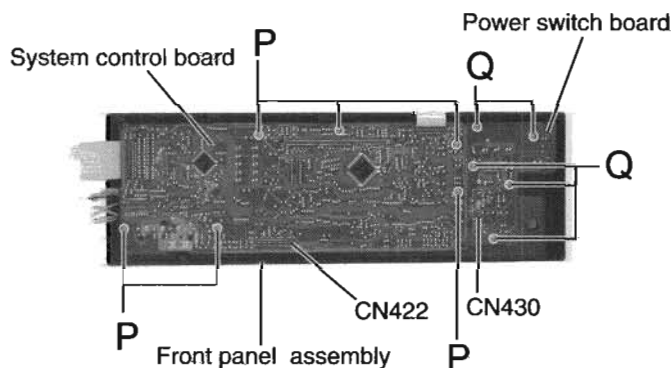


Fig.20

■ Removing the operation switch board

(See Fig.21 to 23)

• Prior to performing the following procedure, remove the top cover, the front panel assembly and the system control board.

1. Remove the six screws R attaching the operation switch board on the back of the front panel.
2. On the back of the front panel, release the four joints by pushing the joint tabs inward. Remove the operation switch board toward the front.
3. Pull out the multi jog knob and the source selector knob.
4. Remove the two screws S attaching the operation switch board.

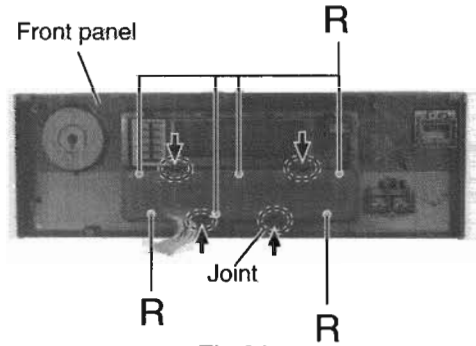


Fig.21

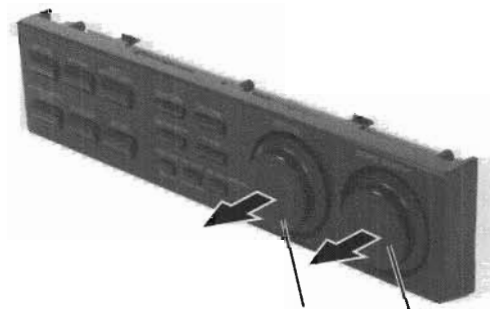


Fig.22

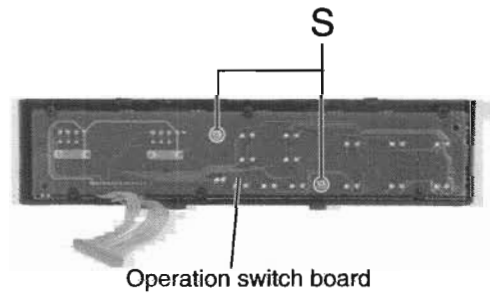


Fig.23

Adjustment method

■ Tuner section

1. Tuner range

FM	87.5MHz~108.0MHz
AM(MW)	530kHz~1710kHz

■ Power amplifier section

Adjustment of idling current

Measurement location	TP781
Adjustment part	VR787(Lch) , VR788(Rch)

Attention

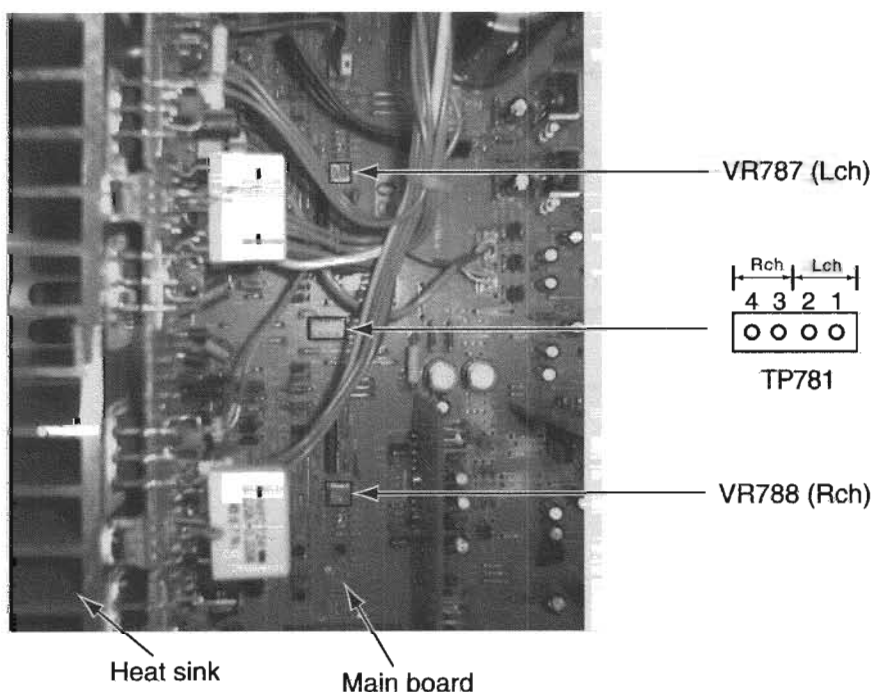
This adjustment does not obtain a correct adjustment value immediately after the amplifier is used (state that an internal temperature has risen).

Please adjust immediately after using the amplifier after turning off the power supply of the amplifier and falling an internal temperature.

<Adjustment method>

1. Set the volume control to minimum during this adjustment. (No signal & No load)
2. Set the surround mode OFF.
2. Turn VR787 and VR788 fully counterclockwise to warm up before adjustment.
If the heat sink is already warm from previous use the correct adjustment can not be made.
3. For L-ch, connect a DC voltmeter between TP781's pin1 and pin2 (Lch)
And, connect it between pin3 and pin4(Rch).
4. 30 minutes later after power on, adjust VR787 for L-ch, or VR788 for R-ch so that the DC voltmeter value has 1mV~10mV.

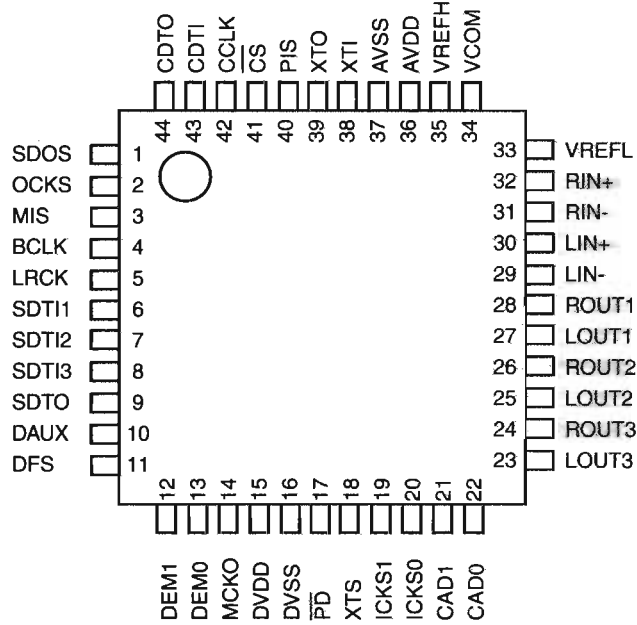
* It is not abnormal though the idling current might not become 0mA even if it is finished to turn variable resistance (VR787,VR788) in the direction of counterclockwise.



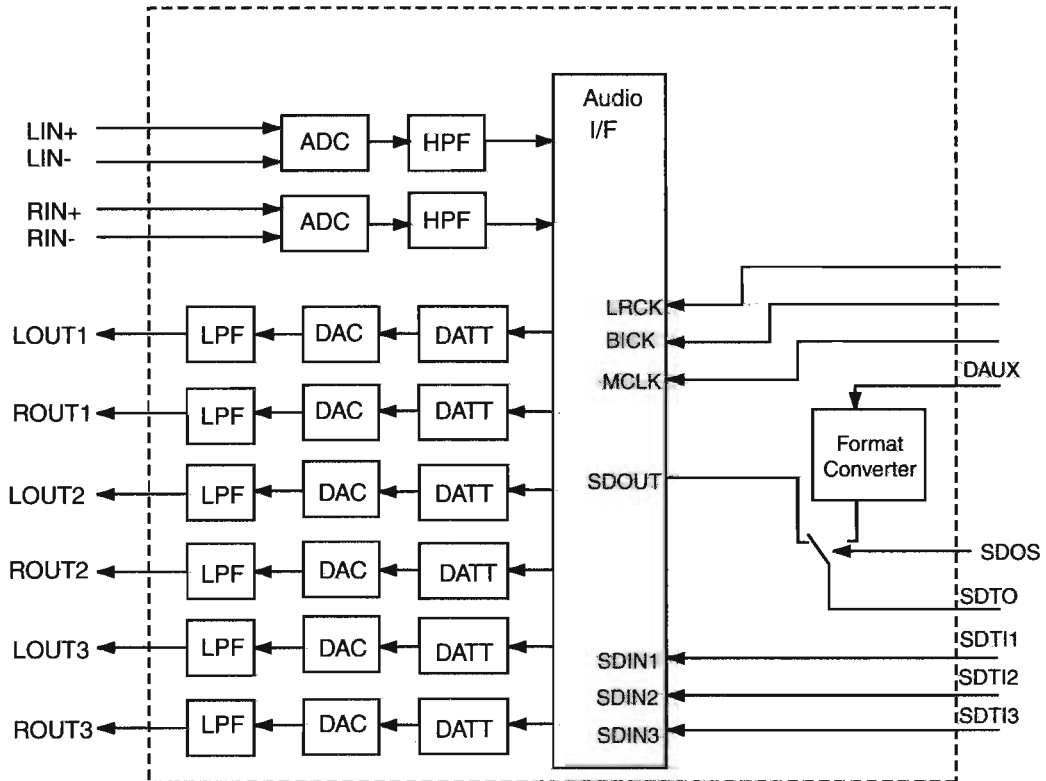
Description of major ICs

■ AK4527 (IC601) : A/D,D/A Converter

1.Pin layout



2.Block diagram



Block Diagram (DIR and AC-3) DSP are external parts)

3. Pin function (1/2)

AK4527(1/2)

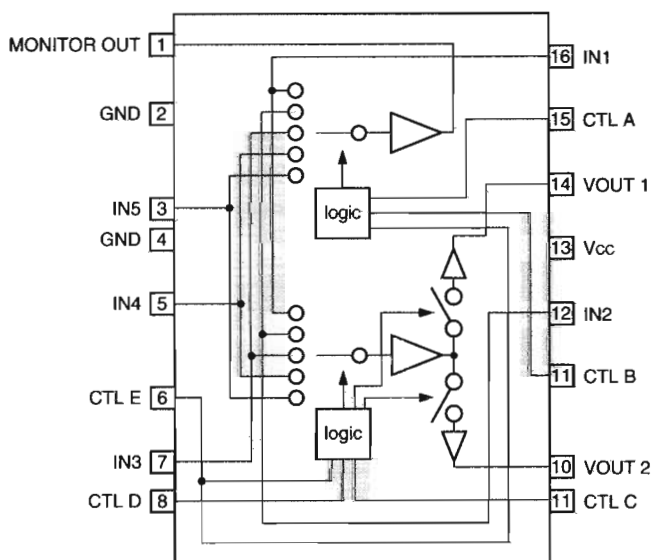
No.	Pin name	I/O	Function
1	SDOS	I	SDTO Source select pin "L" : Internal ADC output, "H" : DAUX input ORed with serial control register if P/S="L".
2	OCKS	I	MCKO Clock frequency select pin "L" : MCLK, "H" : MCLK/2. ORed with serial control register if P/S= "L".
3	MIS	I	Connect to GND
4	BICK	I	Audio serial data clock pin
5	LRCK	I/O	Input/Output channel clock pin
6	SDTI1	I	DAC1 Audio serial data input pin
7	SDTI2	I	DAC2 Audio serial data input pin
8	SDTI3	I	DAC3 Audio serial data input pin
9	SDTO	O	Audio serial data output pin
10	DAUX	I	AUX Audio serial data input pin
11	DFS	I	Double speed sampling mode pin "L" : Normal speed, "H" : Double speed, the ADC is powered down. ORed with serial control register if P/S="L".
12	DEM1	I	De-emphasis pin ORed with serial control register if P/S="L"
13	DEM0	I	De-emphasis Pin ORed with serial control register if P/S="L"
14	MCKO	O	Master clock output pin
15	DVDD	-	Digital power supply pin
16	DVSS	-	Digital ground pin
17	$\overline{\text{PD}}$	I	Power-down & Reset pin When "L", the AK4527 is powered-down and the control registers are reset to default state. If the state of CAD0-1 changes, then the AK4527 must be reset by PDN.
18	XTS	I	X'tal oscillator Select/Test mode pin "H" : X'tal Oscillator selected "L" : External clock source selected
19	ICKS1	I	Input clock select 1 pin
20	ICKS0	I	Input clock select 0 pin
21	CAD1	I	Chip address pin Used during the serial control mode.
22	CAD0	I	Chip address pin Used during the serial control mode.
23	LOUT3	O	Lch #3 analog output pin
24	ROUT3	O	Rch #3 analog output pin
25	LOUT2	O	Lch #2 analog output pin
26	ROUT2	O	Rch #2 analog output pin
27	LOUT1	O	Lch #2 analog output pin
28	ROUT1	O	Rch #1 analog output pin
29	LIN-	I	Lch analog negative Input Pin
30	LIN+	I	Lch analog positive Input Pin
31	RIN-	I	Rch analog negative Input Pin
32	RIN+	I	Rch analog positive Input Pin

3.Pin function (2/2)

AK4527(2/2)

No.	Pin Name	I/O	Function
33	VREFL	I	Negative voltage reference Input pin, AVSS
34	VCOM	O	Common voltage output pin,AVDD/2 Large external capacitor around 2.2uF is used to reduce power-supply noise
35	VREFH	I	Positive voltage reference input pin,AVDD
36	AVDD	-	Analog power supply pin
37	AVSS	-	Analog ground pin
38	XTI	I	X'tal input pin
39	XTO	O	X'tal output pin if XTS="H"
	MCKI	I	External master clock input pin if XTS="L"
40	P/S	I	Parallel/Serial select pin "L" : Serial control mode, "H" : Parallel control mode
41	DIF0	I	Audio data interface format pin in parallel mode
	CS	I	Chip select pin in serial mode
42	DIF1	I	Audio data interface format pin in parallel mode
	CCLK	I	Control data clock pin in serial mode
43	LOOP0	I	Loop back mode pin in parallel mode Enables digital loop-back from ADC to 3 DACs.
	CDTI	I	Control data input pin in serial mode
44	LOOP1	I	Loop back mode pin in parallel mode Enable all 3 DAC channels to be input from SDTII.
	CDTO	O	Control data output pin in serial mode

■ BA7625 (IC242,IC201) / BA7626 (IC241): Video selector



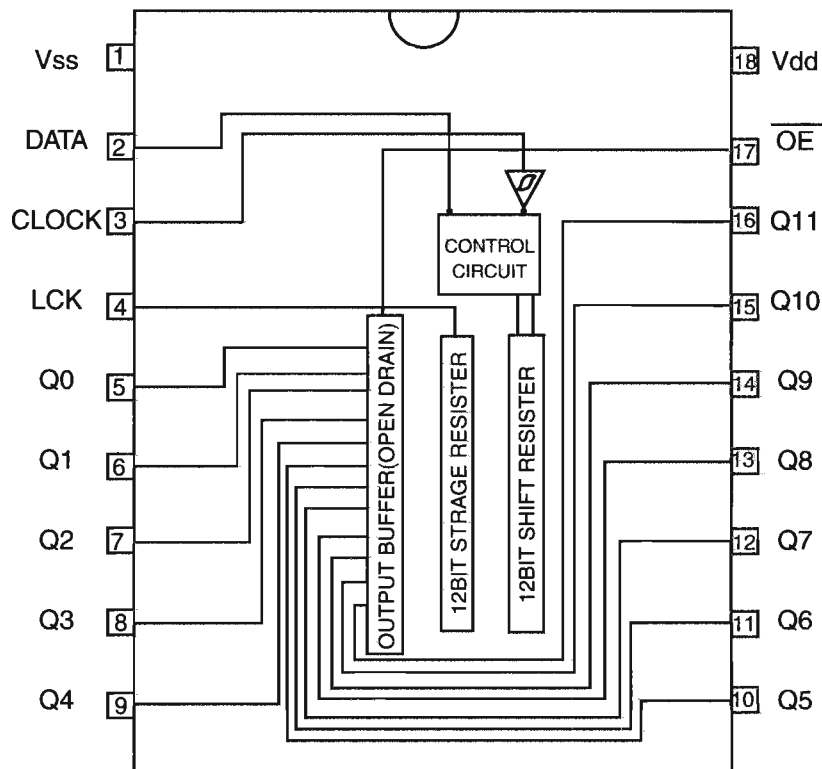
A	B	E	MONITOR OUT
L	L	*	IN1
H	L	*	IN2
L	H	*	IN3
H	H	L	IN4
H	H	H	IN5

C	D	E	VOUT1
L	L	*	--
H	L	*	IN2
L	H	*	IN3
H	H	L	IN4
H	H	H	IN5

C	D	E	VOUT2
L	L	*	IN1
H	L	*	--
L	H	*	IN3
H	H	L	IN4
H	H	H	IN5

■ BU2092(IC402,IC405):LED Controller

1. Terminal Layout

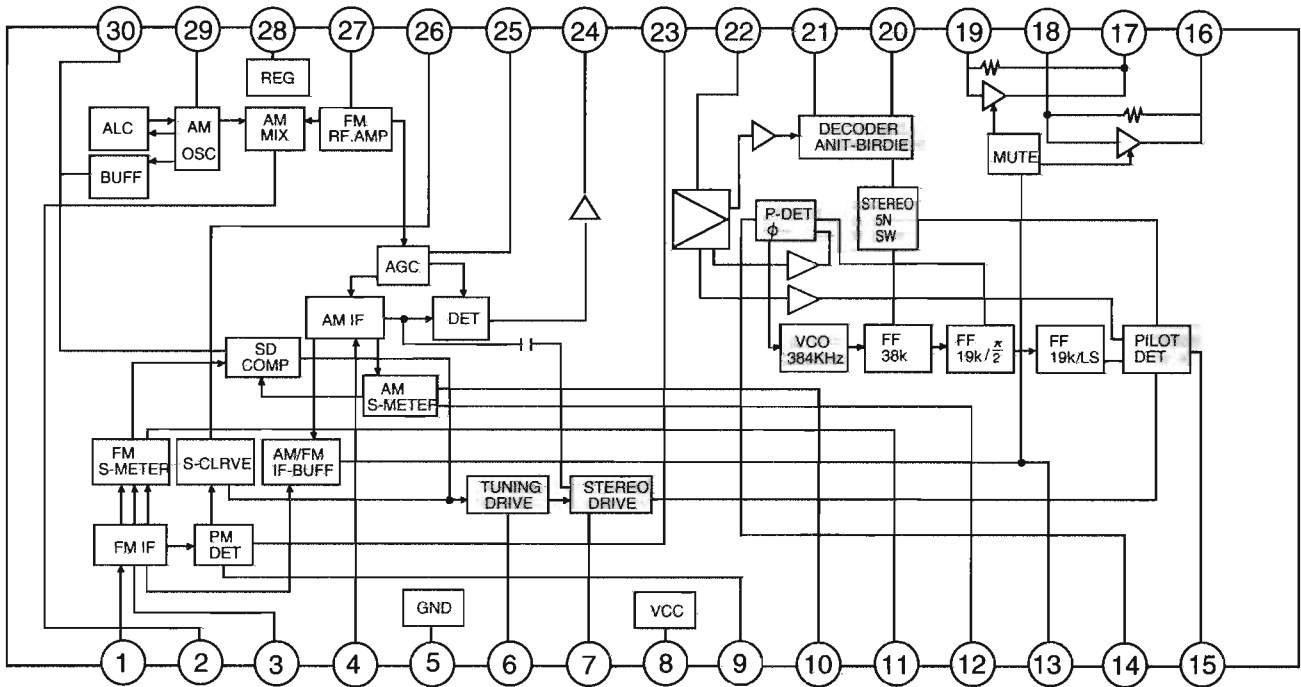


2. Pin Function

Pin No.	Symbol	I/O	Function						
1	Vss	-	Connect to GND						
2	DATA	I	Serial Data input						
3	CLOCK	I	Shift Clock of Data						
4	LCK	I	Latch Clock of Data						
5~16	Q0~Q11	O	Parallel Data Output <table border="1" style="margin-left: 20px;"> <tr> <td>Latch Data</td> <td>L</td> <td>H</td> </tr> <tr> <td>OUTPUT</td> <td>ON</td> <td>OFF</td> </tr> </table>	Latch Data	L	H	OUTPUT	ON	OFF
Latch Data	L	H							
OUTPUT	ON	OFF							
17	$\overline{\text{OE}}$	I	Output Enable						
18	Vdd	-	Power Supply						

■ LA1838(IC102): FM AM IF AMP&detector, FM MPX Decoder

1. Block Diagram



2. Pin Function

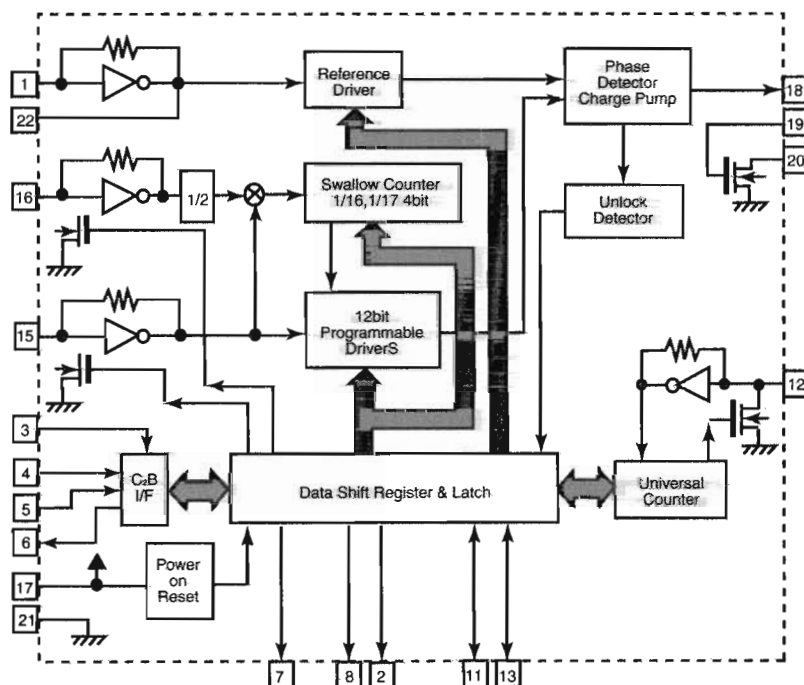
Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	FM IN	I	This is an input terminal of FM IF signal.	16	R OUT	O	Right channel signal output.
2	AM MIX	O	This is an out put terminal for AM mixer.	17	L OUT	O	Left channel signal output.
3	FM IF	I	Bypass of FM IF	18	R IN	I	Input terminal of the Right channel post AMP.
4	AM IF	I	Input of AM IF Signal.	19	L IN	I	Input terminal of the Left channel post AMP.
5	GND	-	This is the device ground terminal.	20	RO	O	Mpx Right channel signal output.
6	TUNED	O	When the set is tuning,this terminal becomes "L".	21	LO	O	Mpx Left channel signal output.
7	STEREO	O	Stereo indicator output. Stereo "L", Mono: "H"	22	IF IN	I	Mpx input terminal
8	VCC	-	This is the power supply terminal.	23	FM OUT	O	FM detection output.
9	FM DET	-	FM detect transformer.	24	AM DET	O	AM detection output.
10	AM SD	-	This is a terminal of AM ceramic filter.	25	AM AGC	I	This is an AGC voltage input terminal for AM
11	FM VSM	O	Adjust FM SD sensitivity.	26	AFC	-	This is an output terminal of voltage for FM-AFC.
12	AM VSM	O	Adjust AM SD sensitivity.	27	AM RF	I	AM RF signal input.
13	MUTE	I/O	When the signal of IF REQ of IC121(LC72131) appear, the signal of FM/AM IF output. //Muting control input.	28	REG	O	Register value between pin 26 and pin28 besides the frequency width of the input signal.
14	FM/AM	I	Change over the FM/AM input. "H" :FM, "L" : AM	29	AM OSC	-	This is a terminal of AM Local oscillation circuit.
15	MONO/ST	O	Stereo : "H", Mono: "L"	30	OSC BUFFER	O	AM Local oscillation Signal output.

■ LC72136N (IC121) : PLL Frequency synthesizer

1. Pin layout

XT	1	22	XT
FM/AM	2	21	GND
CE	3	20	LPFOUT
DI	4	19	LPFIN
CLOCK	5	18	PD
DO	6	17	VCC
FM/ST/VCO	7	16	FMIN
AM/FM	8	15	AMIN
	9	14	
SDIN	10	13	IFCONT
	11	12	IFIN

2. Block diagram

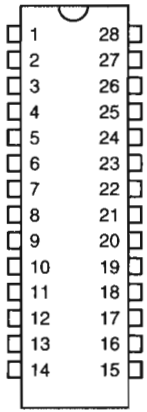


3. Pin function

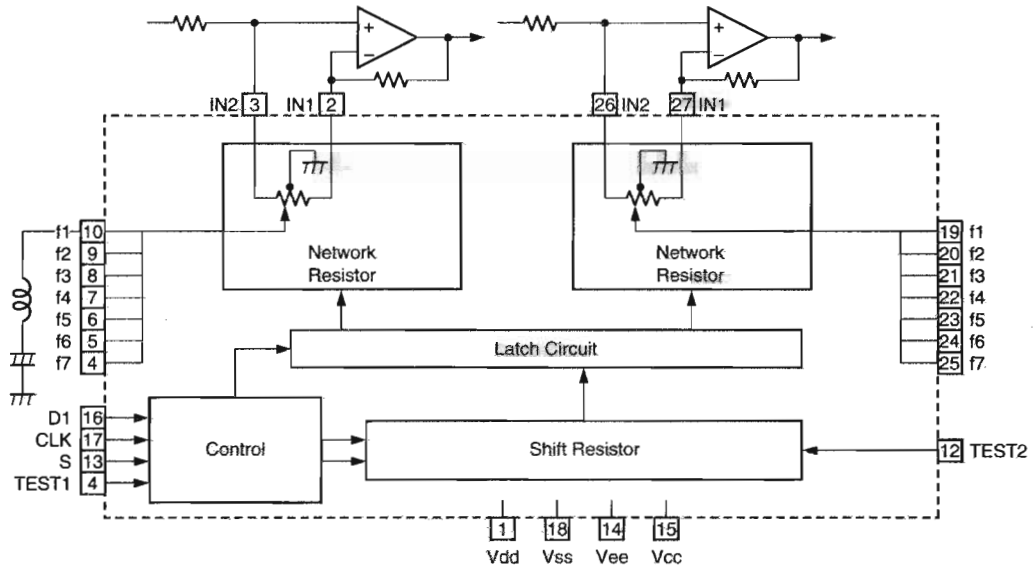
Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	XT	I	X'tal oscillator connect (75kHz)	12	IFIN	I	IF counter signal input
2	FM/AM	O	LOW:FM mode	13	IFCONT	O	IF signal output
3	CE	I	When data output/input for 4pin(input) and 6pin(output): H	14		-	Not use
4	DI	I	Input for receive the serial data from controller	15	AMIN	I	AM Local OSC signal output
5	CLOCK	I	Sync signal input use	16	FMIN	I	FM Local OSC signal input
6	DO	O	Data output for Controller Output port	17	VCC	-	Power supply(VDD=4.5-5.5V) When power ON:Reset circuit move
7	FM/ST/VCO	O	"Low": MW mode	18	PD	O	PLL charge pump output(H: Local OSC frequency Height than Reference frequency. L: Low Agreement: Height impedance)
8	AM/FM	O	Open state after the power on reset	19	LPFIN	I	Input for active lowpassfilter of PLL
9	LW	I/O	Input/output port	20	LPFOUT	O	Output for active lowpassfilter of PLL
10	MW	I/O	Input/output port	21	GND	-	Connected to GND
11	SDIN	I/O	Data input/output	22	XT	I	X'tal oscillator(75KHz)

■ LC7522 (IC451) : SEA Control

1.Pin layout



2.Block diagram

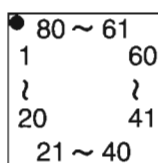


3.Pin function

Pin No.	Symbol	Function
1	V _{DD}	Power Supply terminal for Audio signal +7V(typ)
18	V _{SS}	Power Supply terminal 0V
14	V _{EE}	Power Supply terminal for Audio signal. Single channel use, joint VSS.
15	V _{CC}	Power Supply terminal +5V(typ)
2,27	IN 1	Audio signal Input terminal
3,26	IN 2	IN1 joint opposite input of Operation amp. IN2 joint inapposite input of Operation amp. It have Right and Left.
16	D1	Data input terminal from CPU Shumit inverter style
17	CLK	Clock input terminal from CPU Shumit inverter style
4~10 19~25	f1~f7	Joint terminal of B.P.F. f1~f7 X Right, Left Total 14 terminal
11	TEST1	Internal test terminal of IC
12	TEST2	It can use open condition
13	S	Select terminal for 2 tip use "1" input, key code 7C3 - VDD joint "0" input, key code 7C2 - VEE joint
28	NC	No use

■ MN101C15FDE (IC401) : System control micon

1. Pin layout

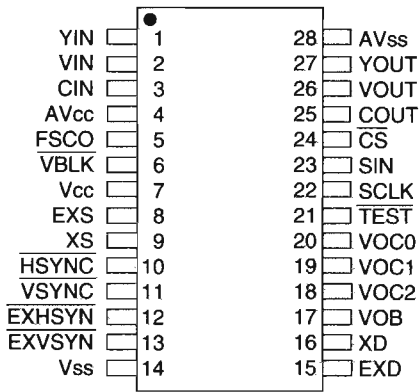


2. Pin function

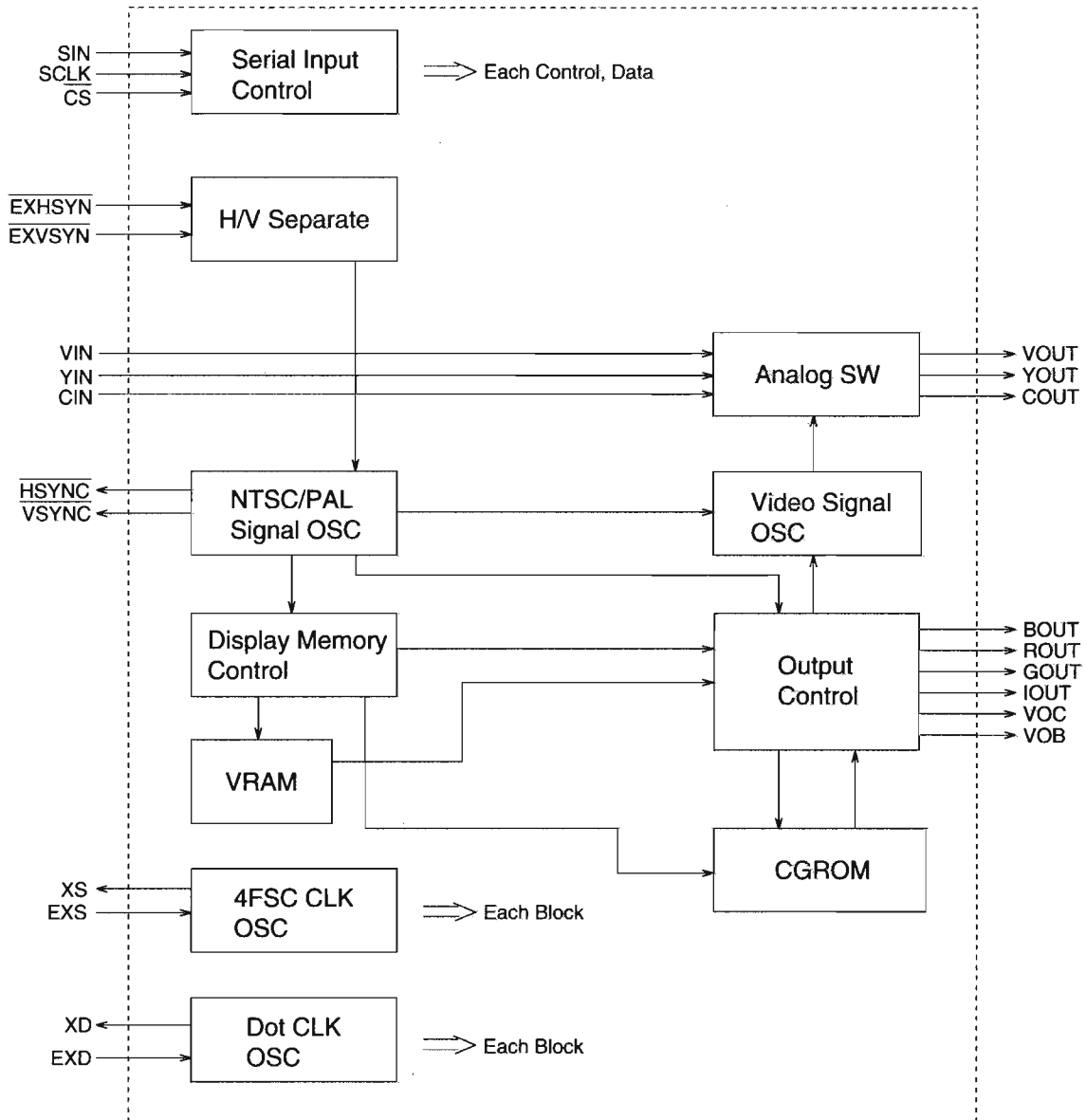
Pin No	Symbol	Functions	Pin No	Symbol	Functions
1	GND	Ground	41	VIDEO3	VIDEO 3 signal terminal
2	DVD-S/C	DVD S/C signal select terminal	42	VIDEO4	VIDEO 4 signal terminal
3	VCR1-S/C	VCR1 S/C signal select terminal	43	S.MUTE	Source mute control terminal
4	VIDEO-S/C	VIDEO S/C signal select terminal	44	—————	No use
5	TV-S/C	TV S/C select terminal	45	—————	No use
6	4/8-IN	4 ohm / 8 ohm select signal terminal	46	—————	No use
7	—————	—————	47	RDS-DATA	RDS control signal terminal
8	GND	Ground	48	—————	No use
9	PROTECT	Protect	49	RDS-CLK	RDS control signal clock
10	GND	Ground	50	DSP-READY	DSP control signal clock
11	VDD	Power supply	51	DSP-RESET	DSP reset signal terminal
12	OSC 12	Oscillation terminal	52	M/CS	Control signal from IC400
13	OSC 11	Oscillation terminal	53	M-RESET	Reset signal from IC400
14	VSS	Ground	54	M-STATUS	Status signal from IC400
15	X1	Ground	55	M-COMMAND	Command signal from IC400
16	X0	Ground	56	M-CLK	Clock signal from IC400
17	GND	Ground	57	SEA-CLK	SEA clock signal from terminal
18	TEXT-OUT	Text signal output terminal	58	SEA-DATA	SEA data signal terminal
19	TEXT-IN	Text signal input terminal	59	VL/VH	Connect to power supply board
20	MASTER	Master signal terminal	60	4/8 OUT	4 ohm / 8 ohm select signal terminal
21	DSP-COMMAND	DSP control signal terminal	61	SW-DATA	Switch data signal terminal
22	DSP-STATUS	DSP control signal terminal	62	SW-CLK	Switch clock signal terminal
23	DSP-CLK	DSP control signal terminal	63	VOL-STB	Volume strobe signal terminal
24	—————	No use	64	VOL-DATA	Volume data signal terminal
25	RESET-IN	Reset signal input terminal	65	VOL-CLK	Volume clock signal terminal
26	TUNER-CE	Tuner chip enable	66	SW-STB	Switch strobe signal terminal
27	TUNER-CLK	Tuner clock signal terminal	67	—————	No use
28	—————	No use	68	—————	No use
29	TUNER-DATA	Tuner control signal terminal	69	FR1-RELAY	Relay 1 signal terminal
30	TUNER-MUTE	Tuner mute signal terminal	70	FR2-RELAY	Relay 2 signal terminal
31	TUNER-IN	Tuner signal input terminal	71	CNTR-RELAY	Center speaker relay terminal
32	STEREO-IN	Stereo signal input terminal	72	SUR-RELAY	Surround speaker relay terminal
33	RDS-ST	No use	73	SUB-MUTE	SUB woofer out mute control
34	M-BUSY	Busy signal from IC400	74	LED-LCK2	LED latch clock signal terminal
35	INH	No use	75	C.TONE3	Center tone 3 signal terminal
36	OSD-DATA	OSD data signal input terminal	76	C.TONE2	Center tone 2 signal terminal
37	OSD-STB	OSD standby signal terminal	77	C.TONE1	Center tone 1 signal terminal
38	OSD-CLK	OSD clock signal terminal	78	LED-LCK1	LED latch clock signal terminal
39	VIDEO1	VIDEO 1 signal terminal	79	LED-DATA	LED data signal terminal
40	VIDEO2	VIDEO 2 signal terminal	80	LED-CLK	LED clock signal terminal

■ MB90088 (IC203) : On screen display controller

1. Terminal layout



2. Block diagram

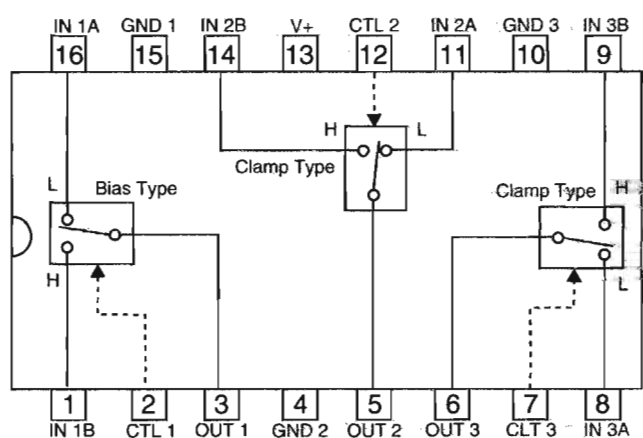


3.Pin functions (MB90088)

pin no	Symbol	I/O	Function
1	YIN	I	Brightness signal Input terminal for Superinpause indication
2	VIN	I	Composite video signal input terminal for Superinpause indication
3	CIN	I	Contrast signal input terminal for Superinpause indication
4	AVcc	-	Analog power supply terminal
5	IOUT	O	Color (Brightness) signal output terminal
6	VOC	O	Character output terminal
7	Vcc	-	Power supply terminal
8	EXS	I	Clock generater outside circuit terminal for color burst
9	XS	O	
10	HSYNC	O	Horizontal signal output terminal
11	VSYN	O	Vertical signal output terminal
12	EXHSYN	I	EXT horizontal signal input terminal
13	EXVSYN	I	EXT vertical signal input terminal
14	Vss	-	GND
15	EXD	I	Dot clock generater outside circuit signal terminal for indication
16	XD	O	
17	VOB	O	Character & background signal output terminal
18	GOUT	O	Color signal (Green, Red, Blue)
19	ROUT		
20	BOUT		
21	TEST	I	Test signal input terminal
22	SCLK	I	Shift clock input terminal for serial transmission
23	SIN	I	Serial data input terminal
24	CS	I	Chip select terminal
25	COUT	O	Contrast signal output terminal
26	VOUT	O	Composite video signal output terminal
27	YOUT	O	Brightness signal output terminal
28	AVss	-	Analog GND terminal

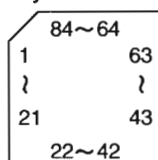
■ NJM2285D (IC202) : Video switch

1. Terminal layout & Block diagram



■ MN173222DG(IC400):FL Display & Operation switch control

1.Pin layout



2.Key matrix

	KEY OUT 0	KEY OUT1	KEY OUT 2	KEY OUT 3	KEY OUT 5
KEY IN 0	POWER	ANALOG/ DIGITAL	SEA ADJUST	FM/AM TUNING	ONE TOUCH OPERATION
KEY IN 1	SURROUND	DSP MODE	FM MODE	TUNER PRESET	————
KEY IN 2	SPEAKER 1	LOUDNESS	LEVEL ADJUST	MEMORY	————
KEY IN 3	SPEAKER 2	SEA MODE	SOUND SELECT	SETTING	————

3.Pin function

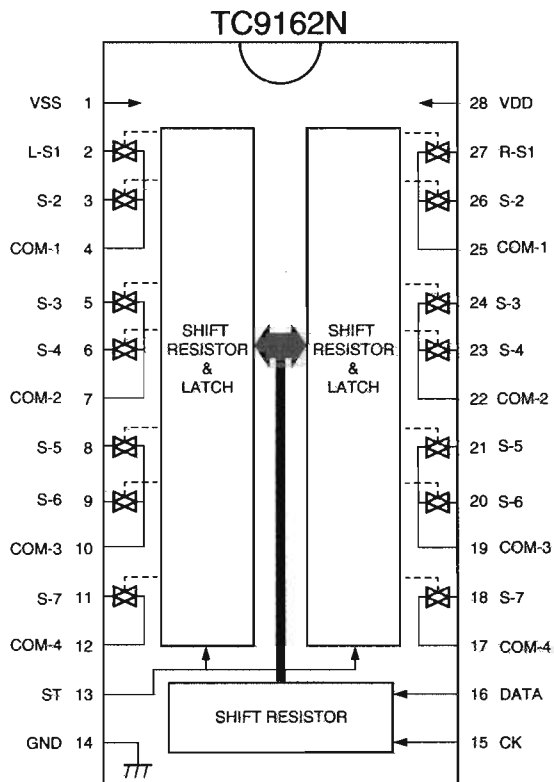
Pin No.	Symbol	I/O	Description
1~22	S22~S1	O	FL Segment control signal
23	VPP	-	Power supply terminal
24~39	G15~G1/KO0~5	O	FL grid control signal / Key matrix output
40,41	JOG1,2	I	Source select JOG1,2
42,43	JOG3,4	I	Volume JOG 3,4
44	M BUSY	O	BUSY Signal output to IC401
45	M CLK	I/O	Clock signal to IC401
46	M COMMAND	I	Command data input from IC401
47	M STATUS	O	Status signal output to IC401
48	M CS	I	Chip select signal input from IC401
49	RM	I	Remote control signal input
50	VCRI	I	AV Compu-link VCR input
51	DCSI	I	AV Compu-link DCS input
52	DCSO	O	AV Compu-link DCS output
53	VCRO	O	AV Compu-link VCR output
54	TVD	O	AV Compu-link TV output
55	TVC	O	AV Compu-link TV control output
56,57	JOG5,6	I	Multi JOG 5,6
58	POWER	I	Power ON control output
59		O	STANDBY LED control H:Lighting
60~63	KI3~KI0	I	Key matrix input
64~67	S36~S33	O	FL Segment control signal
68	RST	I	Reset input
69	X1	-	Connect to GND
70	X2	-	Non connect
71	VSS	-	Connect to GND
72	OSC2	-	Oscillation terminal 6MHz
73	OSC1	-	Oscillation terminal 6MHz
74		-	Not use
75~84	S32~S23	O	FL Segment control signal

■ **TC9162AN (IC321): Analog switch**

1. Function

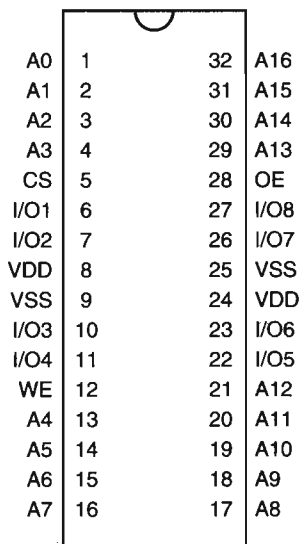
Switch to On/Off of S1 to S8 by control of LSI.

2. Terminal Lay out & Block Diagram

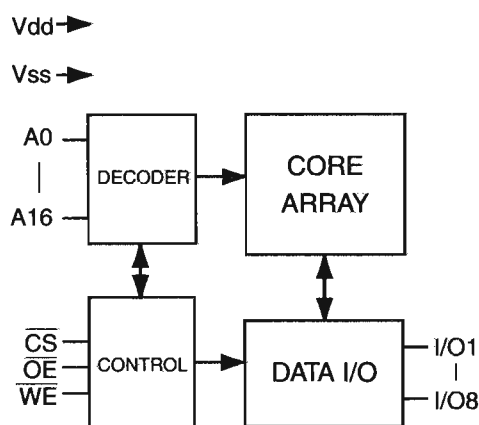


■ **W24L011AJ-15(IC641):SDRAM**

1. Pin layout



2. Block diagram



3. Pin function

Symbol	Description
A0~A16	Address inputs
I/O1~I/O8	Data inputs/outputs
CS	Chip select inputs
WE	Write enable input
OE	Output enable input
Vdd	Power supply
Vss	Ground

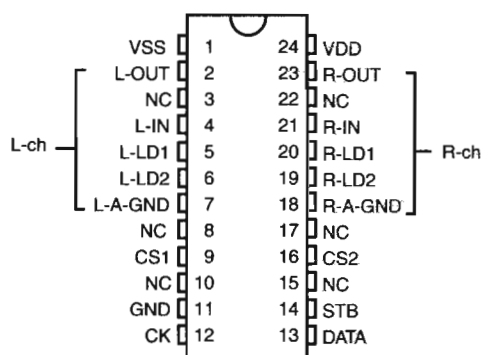
**■ TC9446F-013(IC631):Digital signal processor for dolby digital
/ DTS audio decode**

Pin No.	Symbol	I/O	Function
1	RST	I	Reset signal input terminal (L:reset H:Operation usually)
2	MIMD	I	Microcomputer interface mode selection input terminal (L:serial H:IC bus)
3	MICS	I	Microcomputer interface chip select input terminal
4	MILP	I	Microcomputer interface latch pulse input
5	MIDIO	I/O	Microcomputer interface data I/O terminal
6	MICK	I	Microcomputer interface clock input terminal
7	MIACK	O	Microcomputer interface acknowledge output terminal
8~11	FI0~3	I	Flag input terminal 0~3
12	IRQ	I	Interrupt input terminal
13	VSS	-	Digital ground terminal
14	LRCKA	I	Audio interface LR clock input terminal A
15	BCKA	I	Audio interface bit clock input terminal A
16~18	SDO0~2	O	Audio interface data output terminal 0
19	SD03	-	Non connect
20	LRCKB	I	Audio interface LR clock input terminal B
21	BCKB	I	Audio interface bit clock input terminal B
22	SDT0	I	Audio interface data input terminal 0
23	SDT1	I	Audio interface data input terminal 1
24	VDD	-	Power supply for digital circuit
25	LRCKOA	O	Audio interface LR clock output terminal A
26	BCKOA	O	Audio interface bit clock output terminal A
27,28	TEST0,1	I	Test input terminal 0/1 (L:test H:operation usually)
29~31	LRCKOB,BCKOB,TXO	-	Non connect
32,33	TEST2,3	I	Test input terminal (L:test H:operation usually)
34	RX	I	SPDIF input terminal
35	VSS	-	Ground terminal for digital circuit
36	TSTSUB0	I	Test sub input terminal 0 (L:test H:operation usually)
37	FCONT	O	VCO Frequency control output terminal
38,39	TSTSUB1,TSTSUB2	I	Test sub input terminal 1,2 (L:test H:operation usually)
40	PDO	O	Phase error signal output terminal
41	VDDA	-	Power supply for analog circuit
42	PLON	I	Clock selection input terminal (L:external clock H:VCO clock)
43	AMPI	I	AMP:input terminal for LPF
44	AMPO	O	AMP:output terminal for LPF
45	CKI	I	External clock input terminal
46	VSSA	-	Ground terminal for analog circuit
47	CKO	O	DIR Clock output terminal
48	LOCK	O	VCO Lock detection output terminal
49	VSS	-	Ground terminal for digital circuit
50	WR	O	External SRAM writing signal output terminal
51	OE	O	External SRAM output enable signal output terminal
52	CE	O	External SRAM chip enable signal output terminal
53	VDD	-	Power supply terminal for digital circuit
54~61	IO7~0	I/O	External SRAM data I/O terminal 7~0
62	VSS	-	Ground terminal for digital circuit
63~70	AD0~7	O	External SRAM address output terminal 0~7
71	VDD	-	Power supply terminal for digital circuit
72~80	AD8~16	O	External SRAM address output terminal 8~16
81	VSS	-	Ground terminal for digital circuit
82~89	PO0~7	O	General purpose output terminal 0~7
90	VDDDL	-	Power supply terminal for DLL
91	LPFO	O	LPF output terminal for DLL
92,93	DLON,DLCKS	I	Refer to the undermentioned table
94	SCKO	-	Non connect
95	VSSDL	-	Ground terminal for DLL
96	SCKI	I	External system clock input terminal
97	VSSX	-	Ground terminal for oscillation circuit
98,99	XO,XI	I/O	Oscillation I/O terminal
100	VDDX	-	Power supply terminal for oscillation circuit

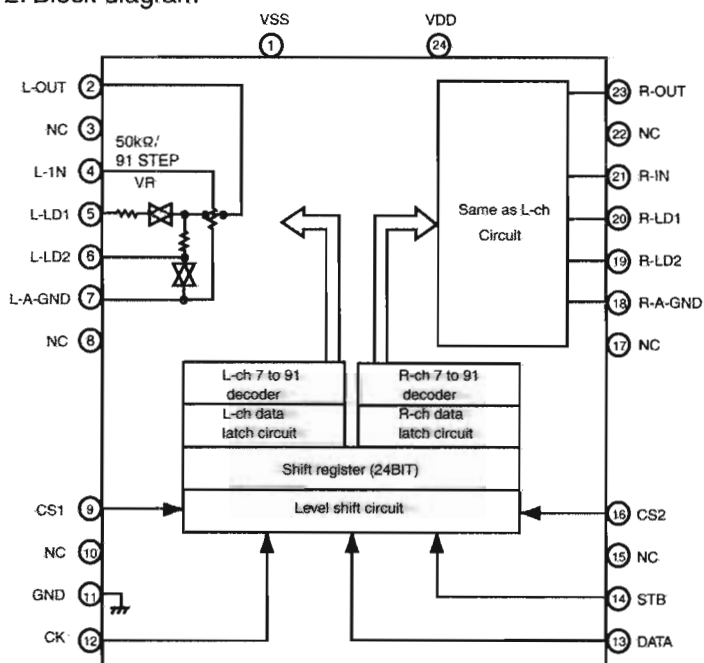
DLCKS terminal	DLONterminal	DLL clock setting
L	L	SCKI input (DLL circuit OFF)
L	H	Four times XI clock
H	L	Three times XI clock
H	H	Six times XI clock

■ TC9459F (IC331,IC332,IC333) : Electronic volume control

1.Pin layout



2. Block diagram

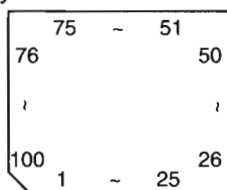


3.Pin function

Pin No.	Symbol	Function	Pin No.	Symbol	Function
1	VSS	Negative power supply pin	13	DATA	Volume setup serial data input
2	L-OUT	Volume output pin	14	STB	Data write strobe input
3	NC	No connection	15	NC	No connection
4	NC	No connection	16	CS2	Chip select input pin
5	L-LD1	Loudness tap output pin	17	NC	No connection
6	L-LD2	Loudness tap output pin	18	R-A-GND	Analog GND pin
7	L-A-GND	Analog GND pin	19	R-LD2	Loudness tap output pin
8	NC	No connection	20	R-LD1	Loudness tap output pin
9	CS1	Chip select input pin	21	R-IN	Volume input pin
10	NC	No connection	22	NC	No connection
11	NC	No connection	23	R-OUT	Volume output pin
12	CK	Data transfer clock input	24	VDD	Positive power supply pin

■ UPD784215AGC(IC671):UNIT CPU

1.Pin layout

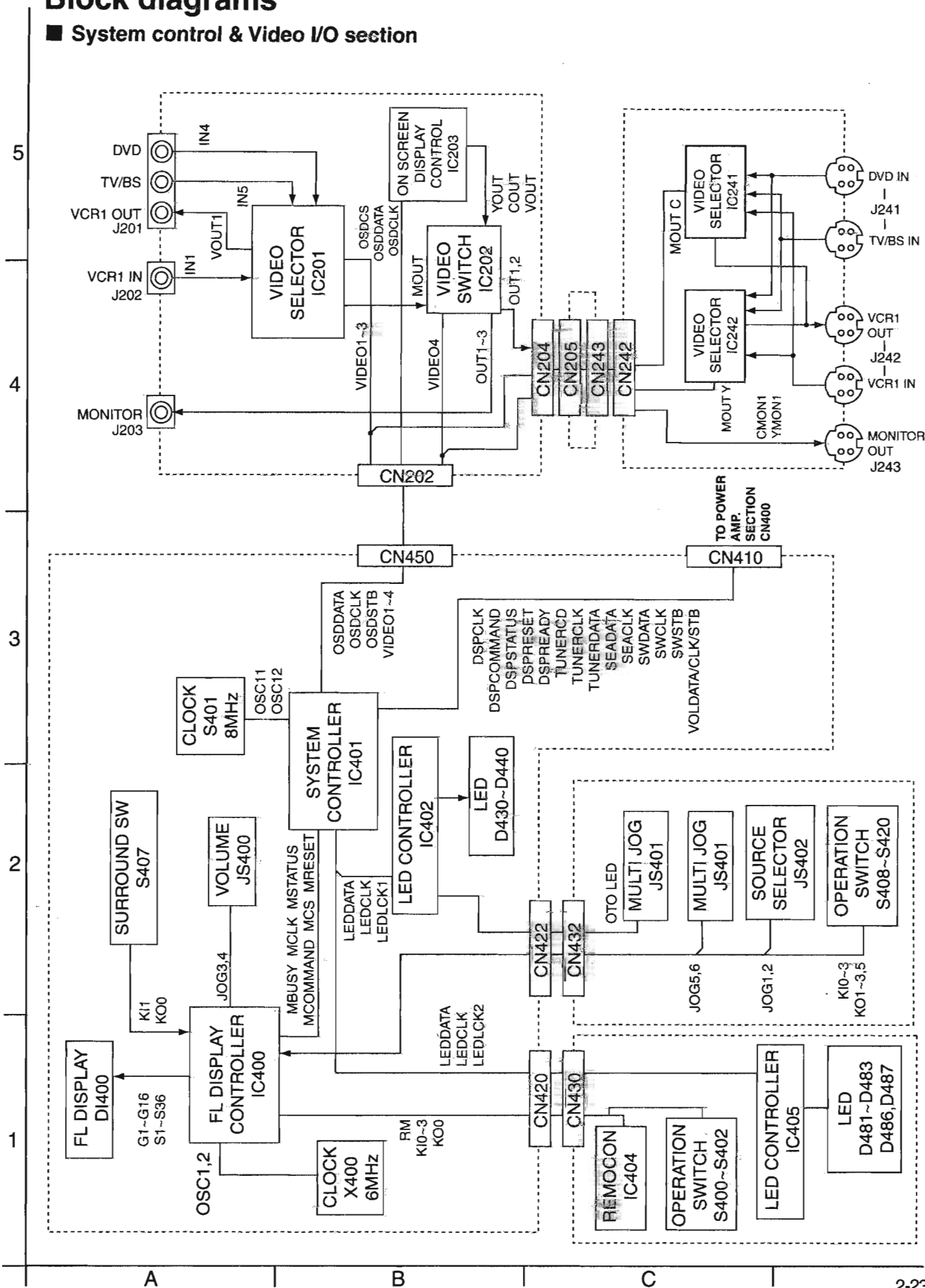


2.Pin function

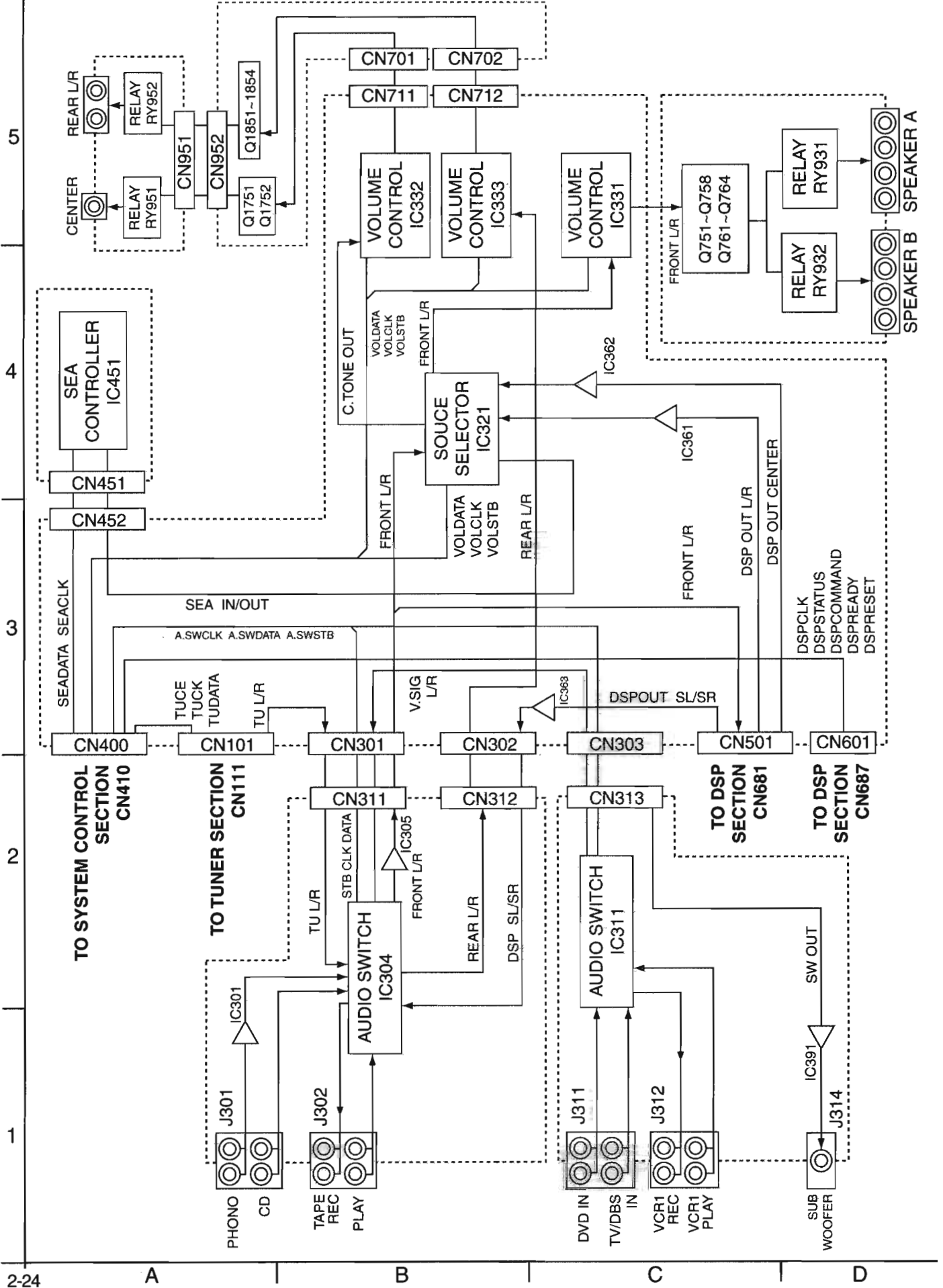
Pin No.	Symbol	I/O	Function
1~8		-	Non connect
9	VDD	-	Power supply terminal
10	X2	O	Connecting the crystal oscillator for system main clock
11	X1	I	Connecting the crystal oscillator for system main clock
12	VSS	-	Connect to GND
13	XT2	O	Connecting the crystal oscillator for system sub clock
14	XT1	I	Connecting the crystal oscillator for system sub clock
15	RESET	I	System reset signal input
16	AUTODATA	I	Output of DSP to general-purpose port
17	LOCK	I	Output of DSP to general-purpose port
18	DIGITAL0	I	Output of DSP to general-purpose port
19	FORMAT	I	Output of DSP to general-purpose port
20	CHANNEL	I	Output of DSP to general-purpose port
21	ERR	I	Output of DSP to general-purpose port
22	RSTDET	I	Reset signal input
23	AVDD	-	Power supply terminal
24	AVREF0	-	Connect to GND
25~32		-	Connect to GND
33	AVSS	-	Connect to GND
34,35		-	Non connect
36		-	Power supply terminal
37,38	RX,TX	-	Not use
39		-	Non connect
40	DSPCOM	I	Communication port from IC401
41	DSPSTS	O	Status communication port to IC401
42	DSPCLK	I	Clock input from IC401
43	DSPRDY	I	Ready signal input from IC401
44		-	Non connect
45,46	MIDIO_IN/OUT	I/O	Interface I/O terminal with microcomputer
47	MICK	O	Interface I/O terminal with microcomputer of clock signal
48	MICS	O	Interface I/O terminal with microcomputer of chip select
49	MILP	O	Interface I/O terminal with microcomputer
50	MIACK	O	Interface I/O terminal with microcomputer
51,52		-	Non connect
53	DSPRST	O	Reset signal output of DSP
54~63		-	Non connect
64,65	CDTI/CDTO	I/O	Interface I/O terminal with microcomputer
66	CCLK	O	Interface I/O terminal with microcomputer of clock signal
67	CS	O	Interface I/O terminal with microcomputer of chip select
68	XTS	O	OSC Select
69,70		-	Non connect
71	PD	O	Reset signal output
72	GND	-	Connect to GND
73~80		-	Non connect
81	VDD	-	Power supply
82	3D-ON	-	Non connect
83	3D-ON	O	Switch at output destination of surround channel
84	ANA/T-TONE	O	Test tone control
85	REF-MIX	O	Control at output destination of LFE channel
86		-	Non connect
87	D.MUTE	O	Mute of the digital out terminal is controlled
88	S.MUTE	O	Mute of the audio signal is controlled
89		-	Non connect
90~93	ASW1~4	O	Selection of digital input selector
94	TEST	-	Test terminal
95~100		-	Non connect

Block diagrams

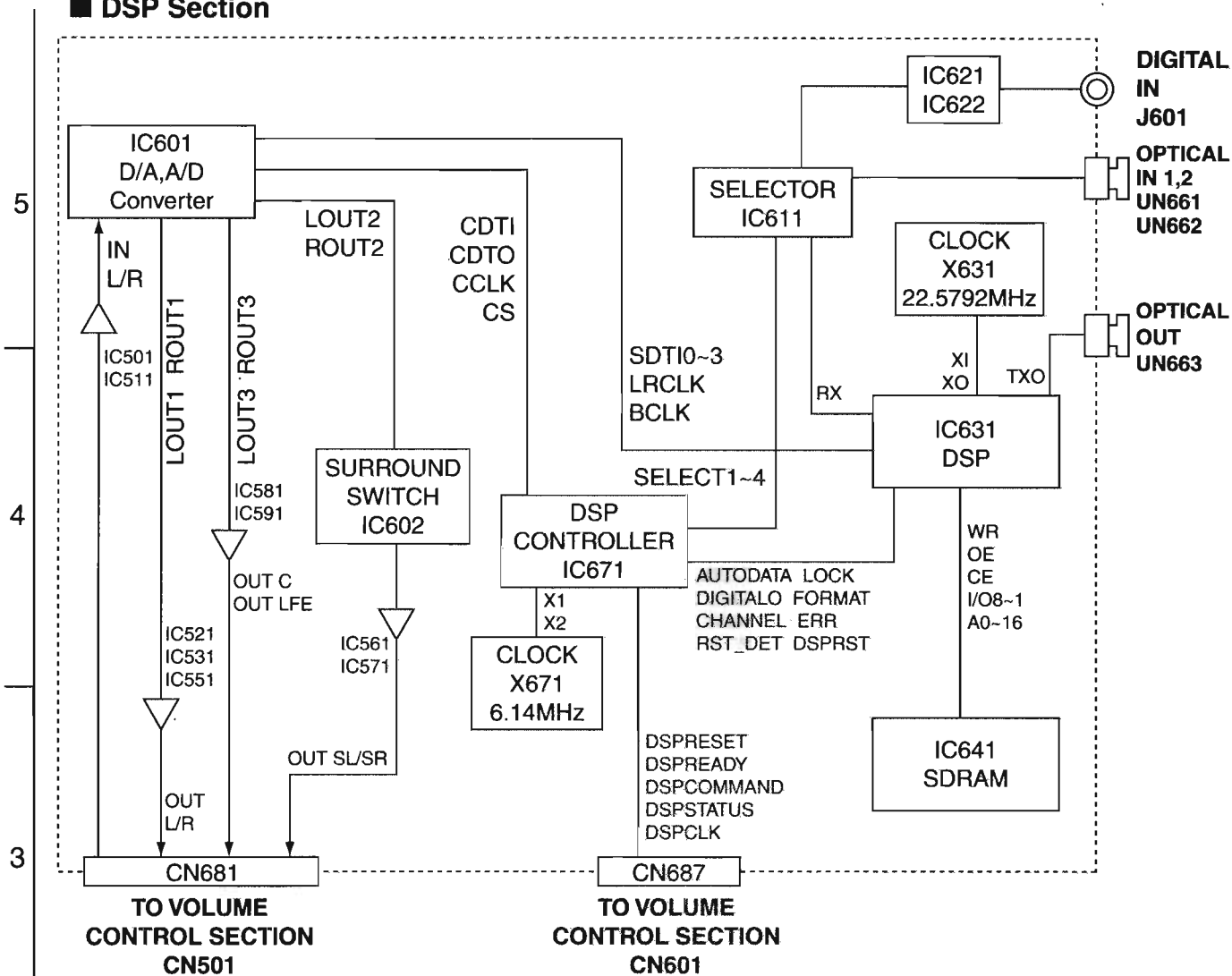
System control & Video I/O section



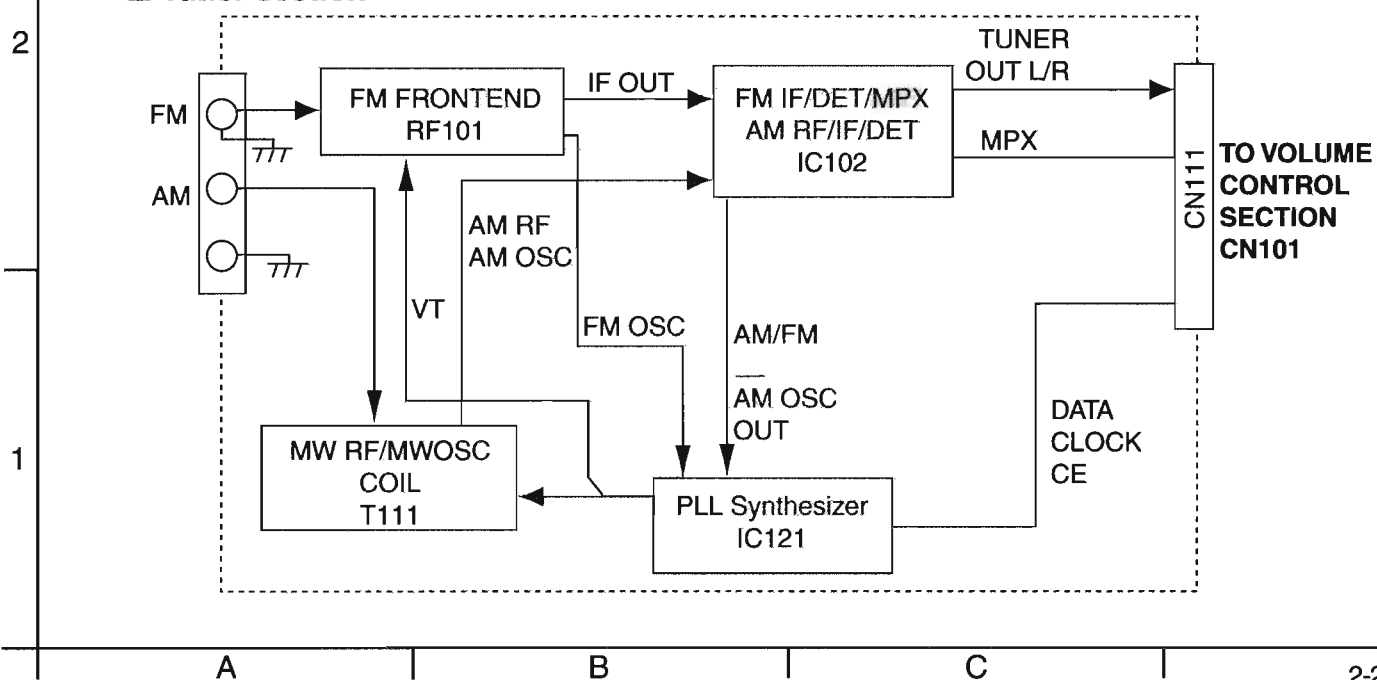
■ Power amplifier & Audio I/O section



■ DSP Section



■ Tuner section

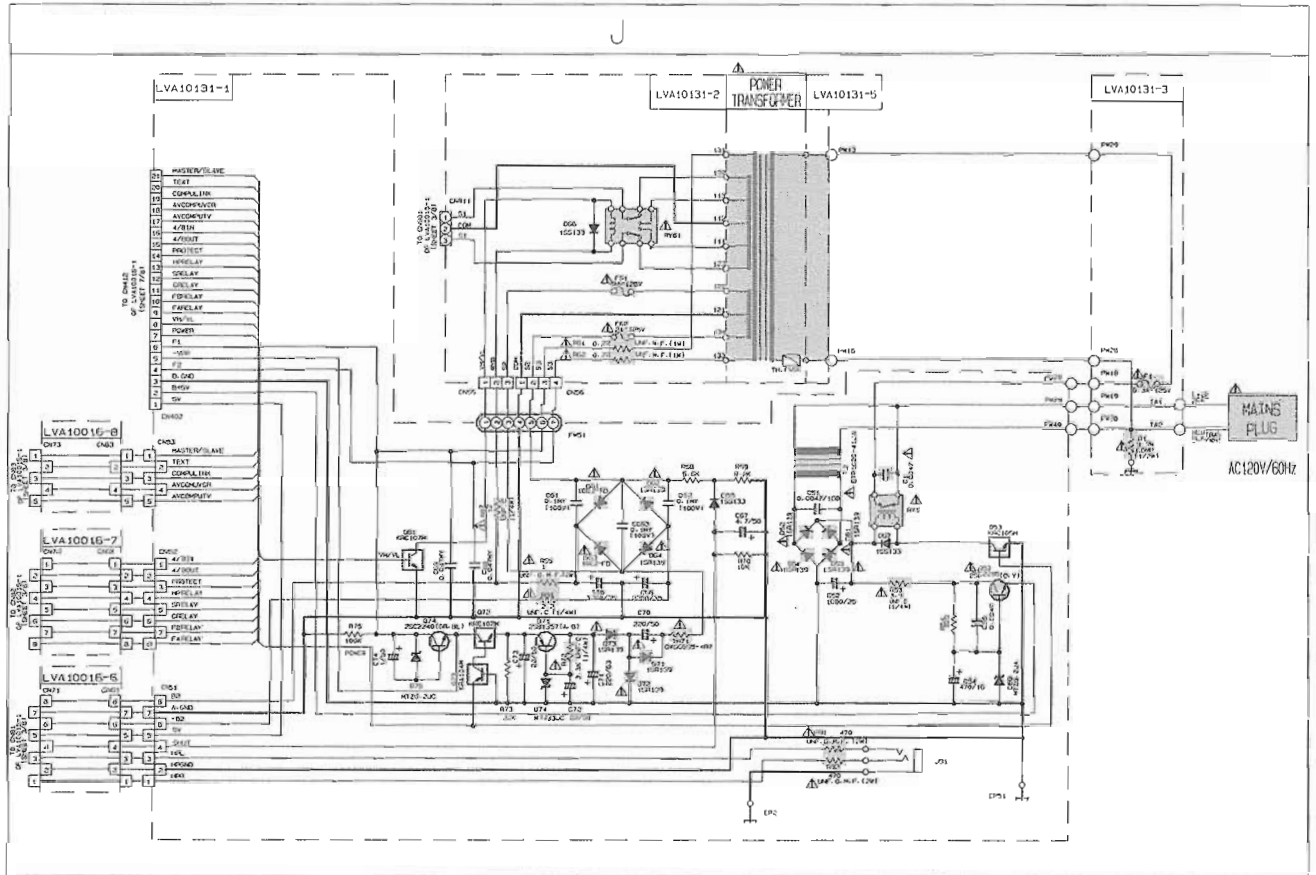


RX-7000VBK

-MEMO-

Standard schematic diagrams

■ Power supply section



VERSION CODES	
C:	CANADA
J:	U. S. A.

5

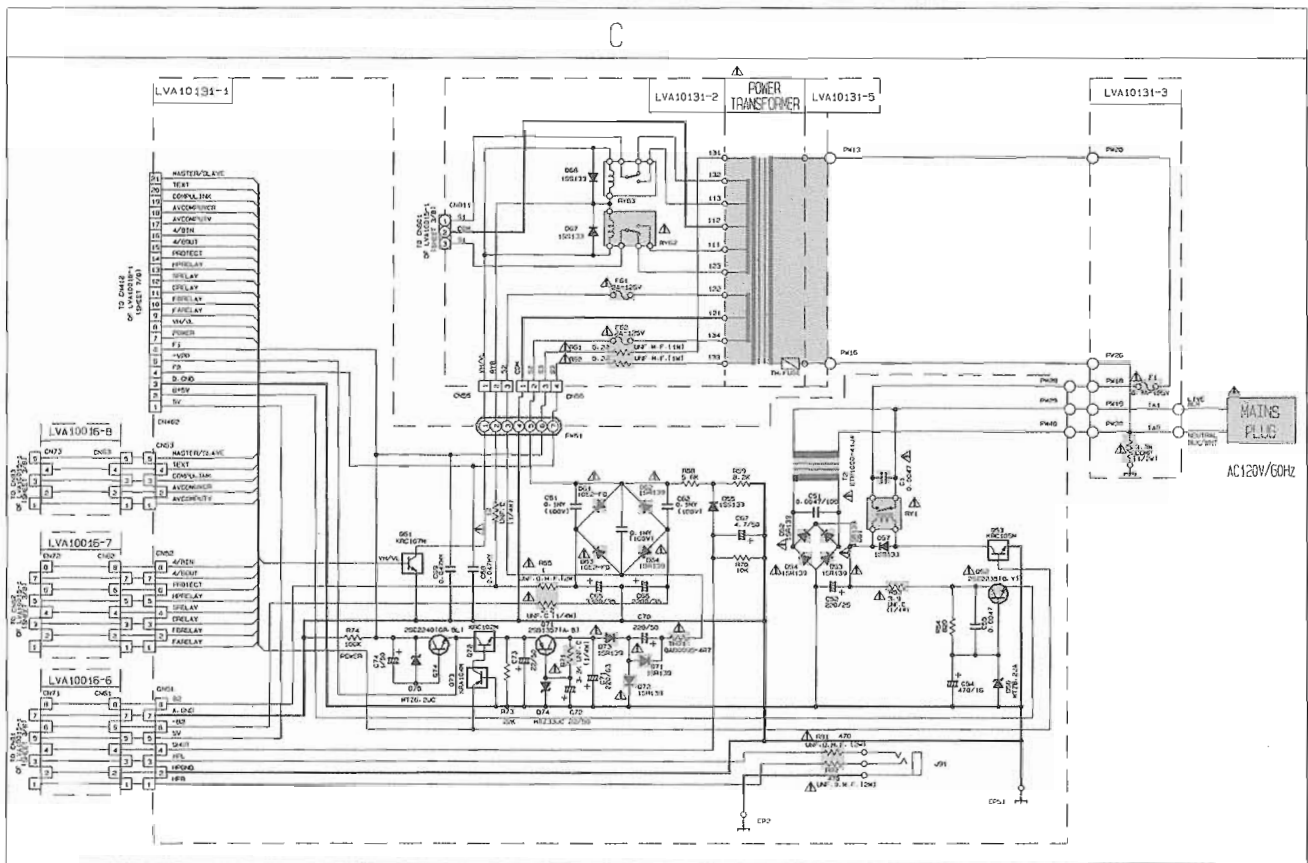
4

3

2

1

A | B | C | D

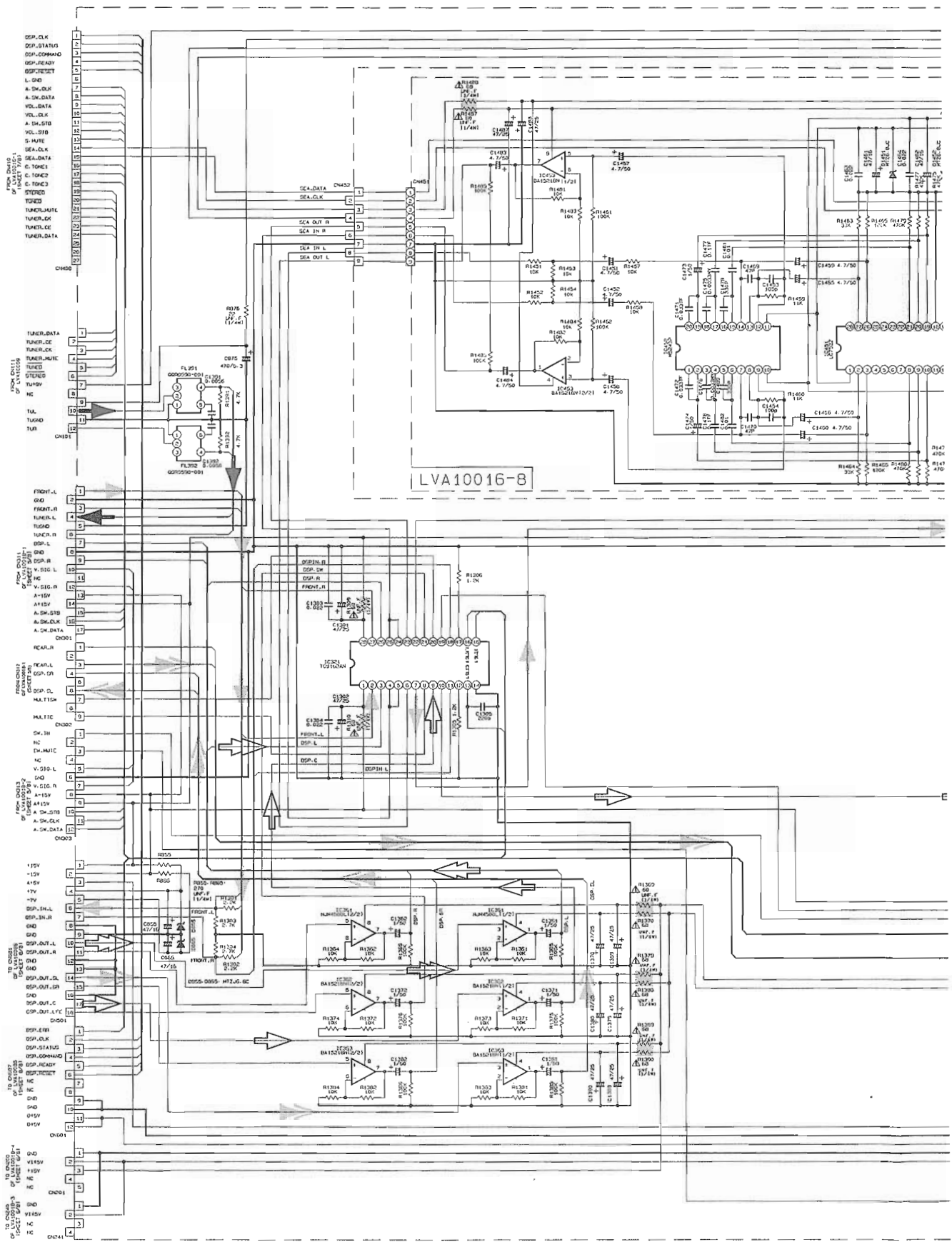


MODEL RX-7000VBK SHEET 1/8

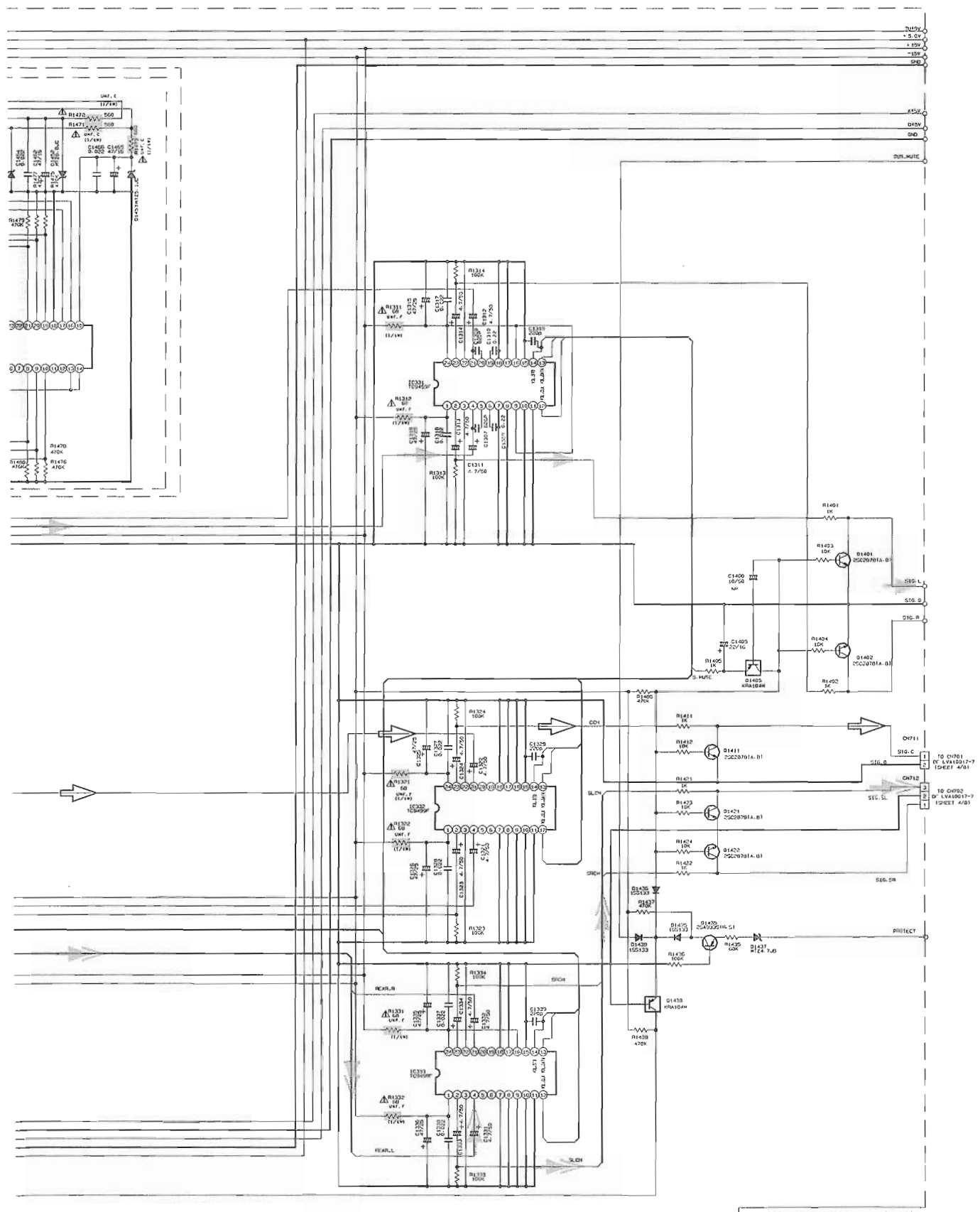
SHEET NUMBER	CIRCUIT DESCRIPTION
1/8	PRIMARY / RECTIFIER
2/8	VOLUME (FRONT/CENTER/REAR ch.) / SEA / SOURCE SELECT IC
3/8	AUDIO AMP (FRONT ch.) / SPEAKER TERMINAL (FRONT ch.) / REGULATOR / RECTIFIER
4/8	AUDIO AMP (CENTER/REAR ch.) / SPEAKER TERMINAL (CENTER/REAR ch.)
5/8	AUDIO SIGNAL INPUT TERMINAL / SOURCE SELECT IC / SYSTEMCONTROL SIGNAL TERMINAL
6/8	VIDEO SIGNAL INPUT TERMINAL / SOURCE SELECT IC
7/8	USER CONTROL KEYS / SYSTEMCONTROL LSI / FL DISPLAY
8/8	SURROUND IC / DIGITAL SIGNAL INPUT TERMINAL

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

■ Main amplifier section 1/2



- ⇨ CENTER Signal
- ⇨ AUDIO Signal
- ⇨ FRONT Signal
- ⇨ SURROUND Signal
- ⇨ TUNER Signal



LVA10015-1(1)

FRONT Signal

⚠ Parts are safety assurance parts.
When replacing those parts make
sure to use the specified one.

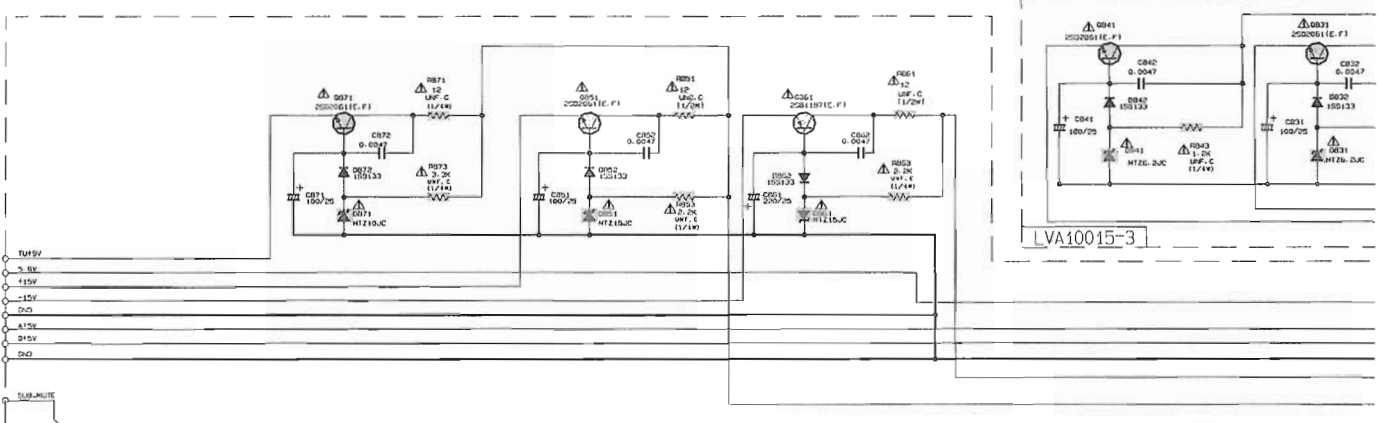
MODEL
RX-7000VBK

SHEET
2/8

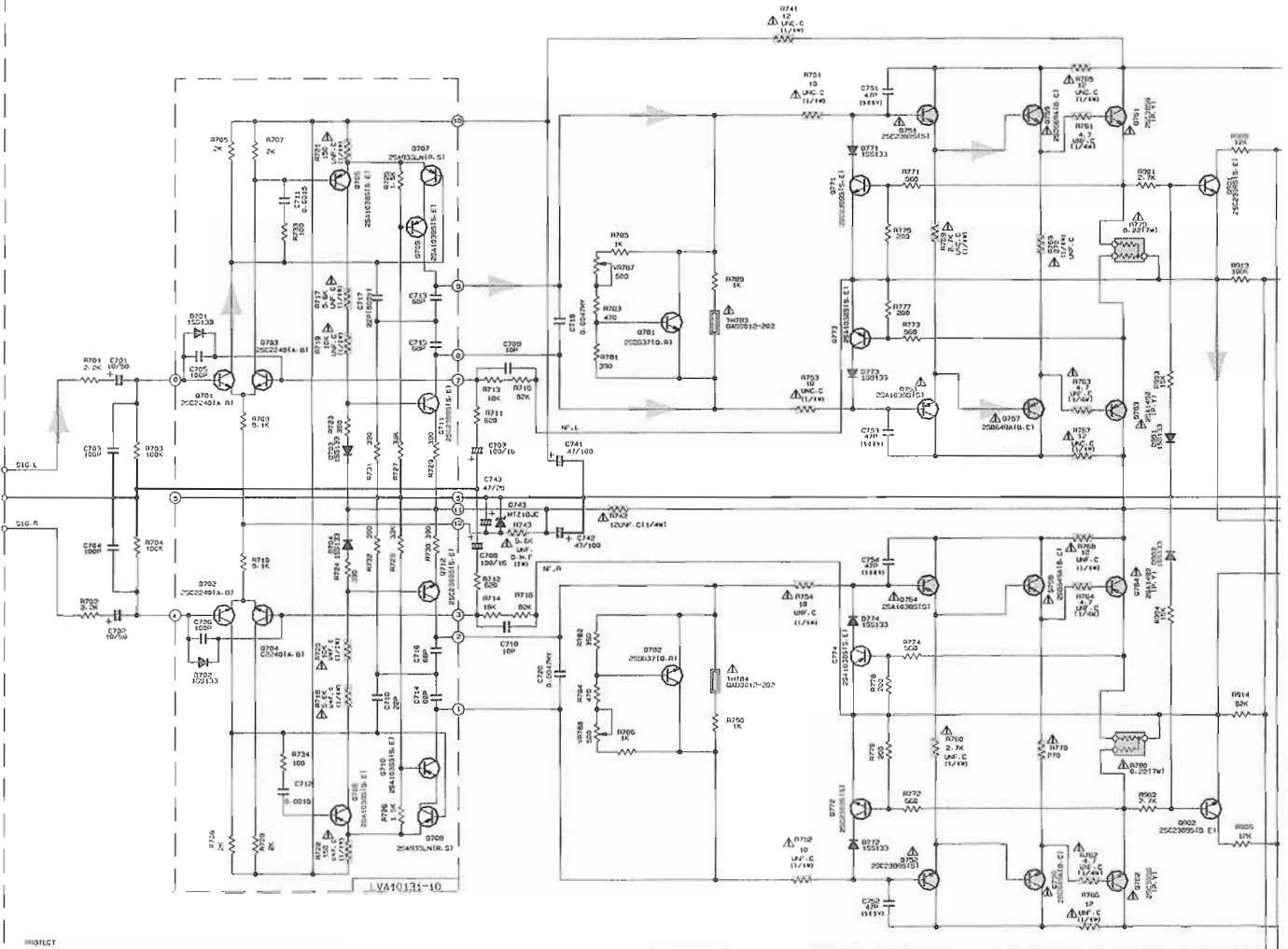
D | E | F | G | H

■ Main amplifier section 2/2

5



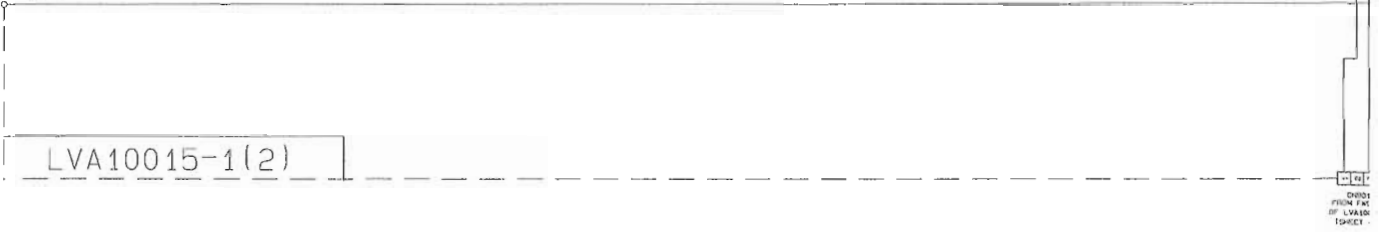
4



3

2

1



LVA10015-1(2)

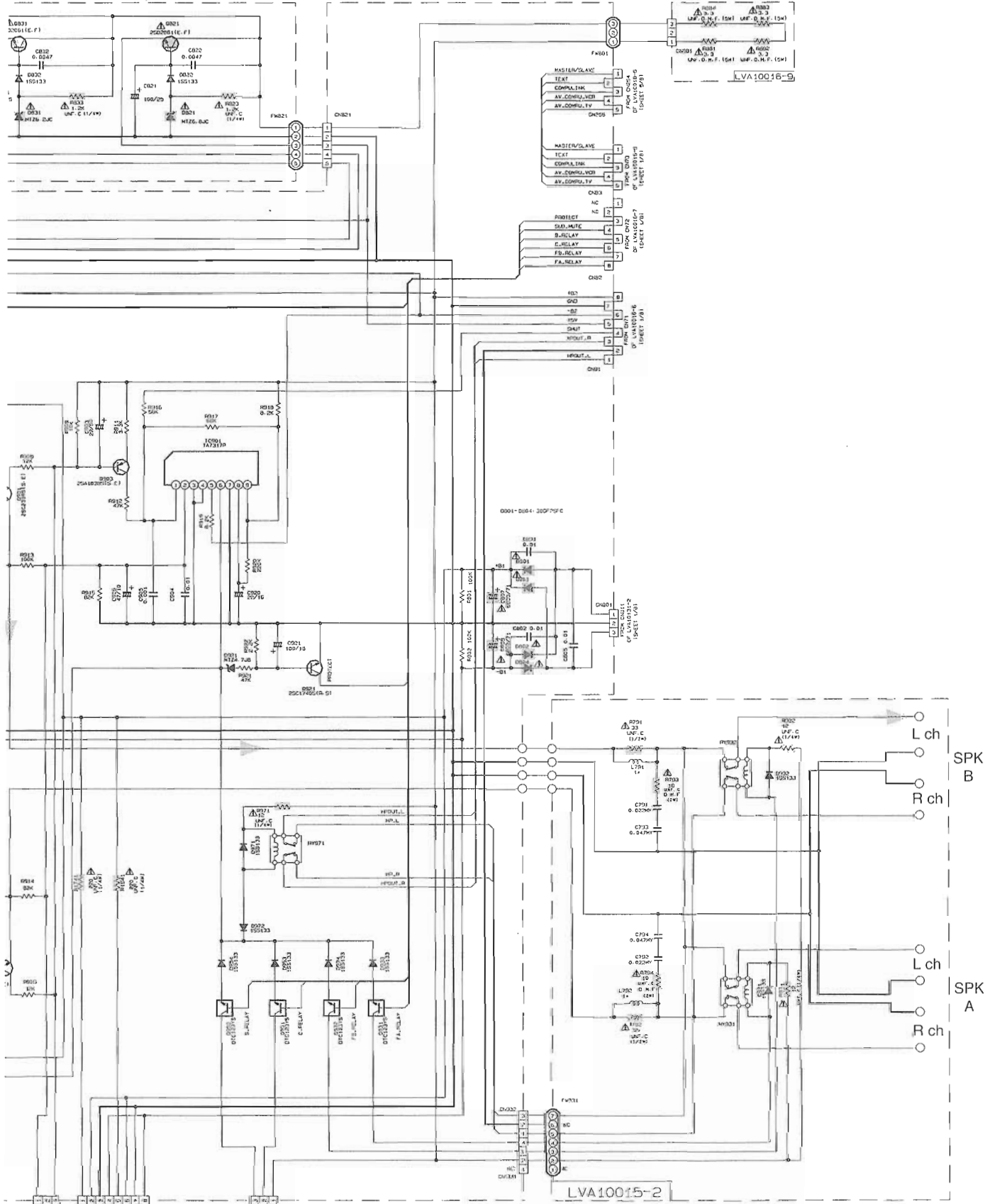
Q801
FROM FM
OF LVA10015-1
TAPING

A

B

C

D



Center / Rear amplifier section

LVA10017-7

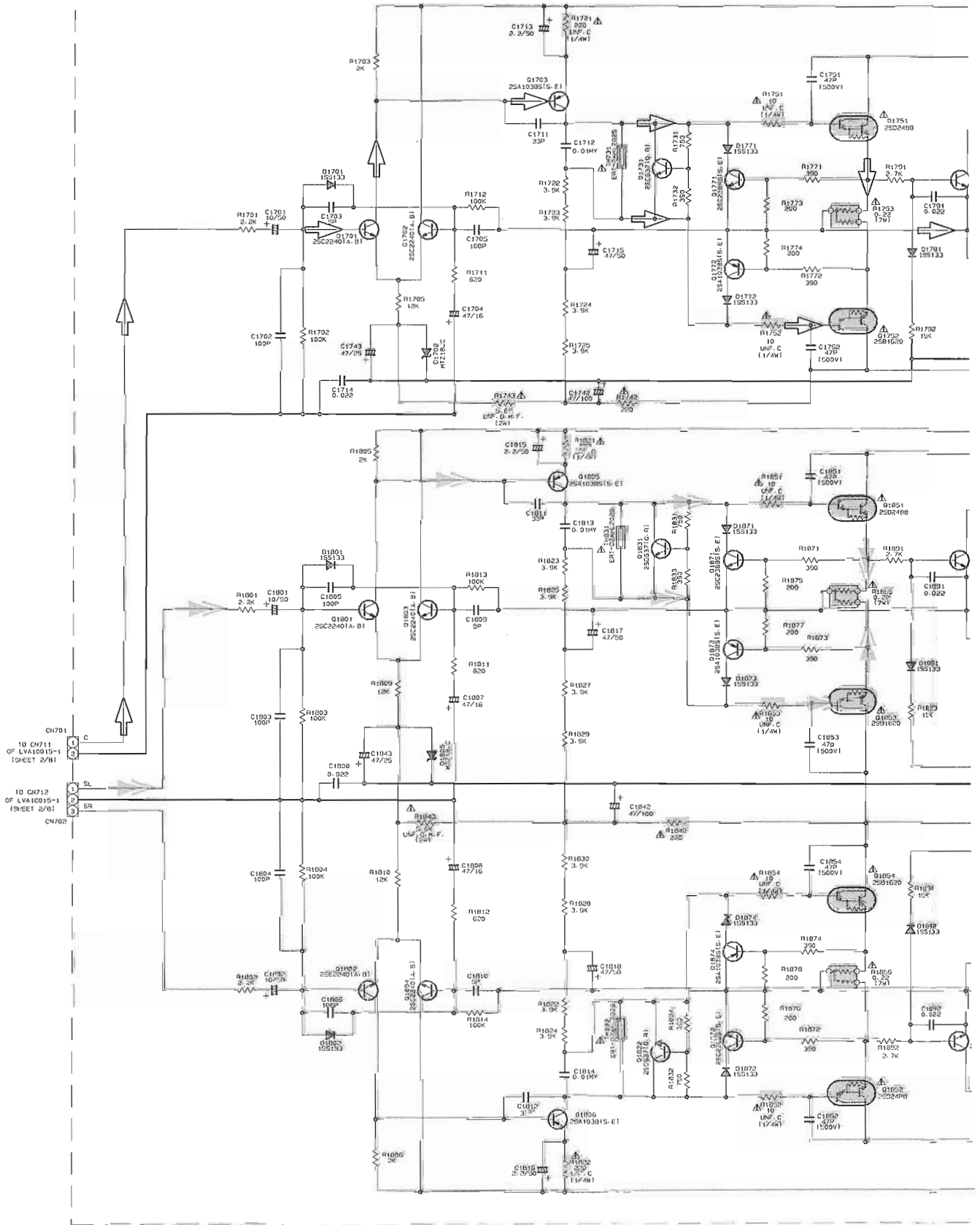
5

4

3

2

1



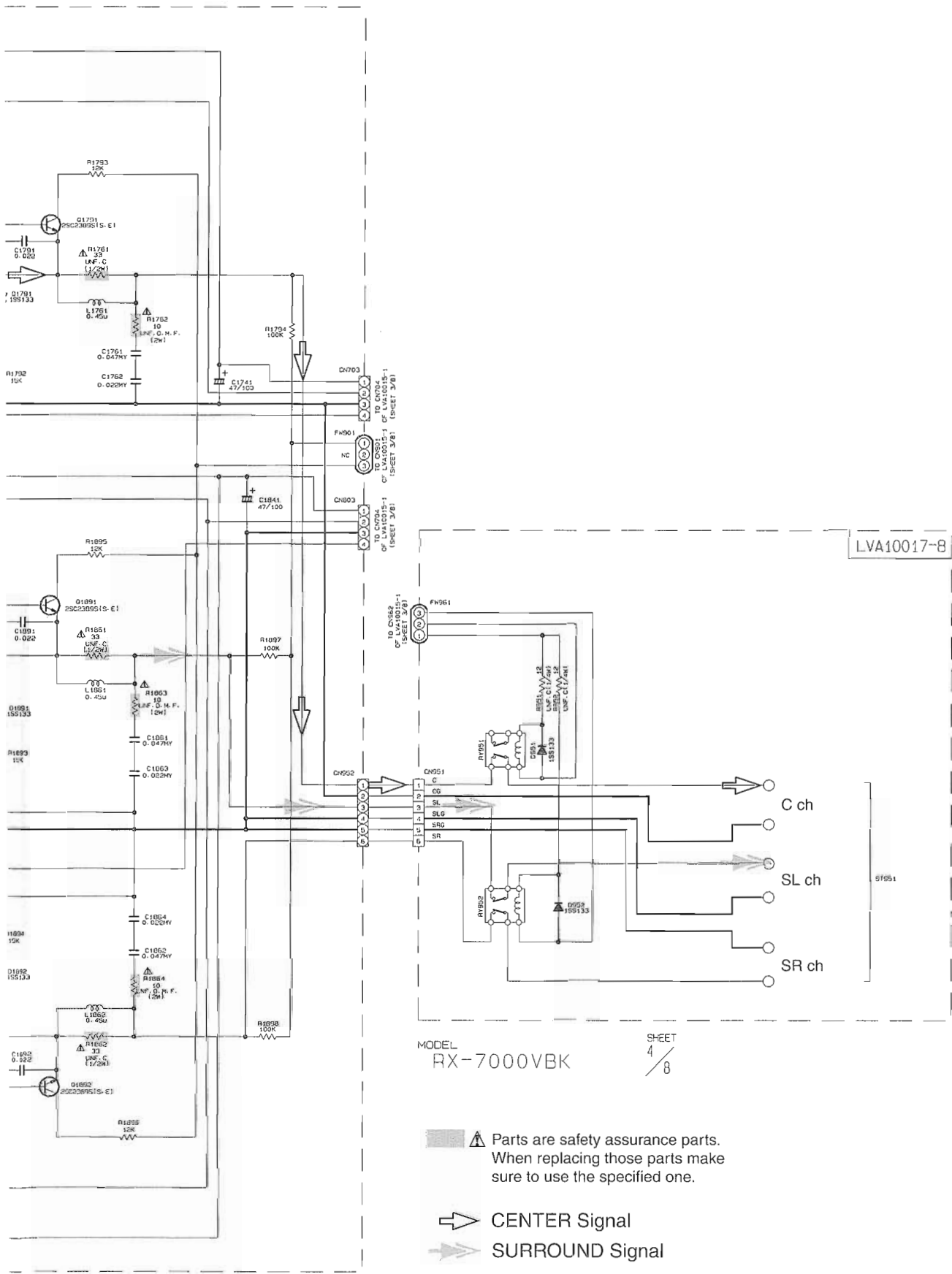
A

B

C

2-30

D



Audio signal section

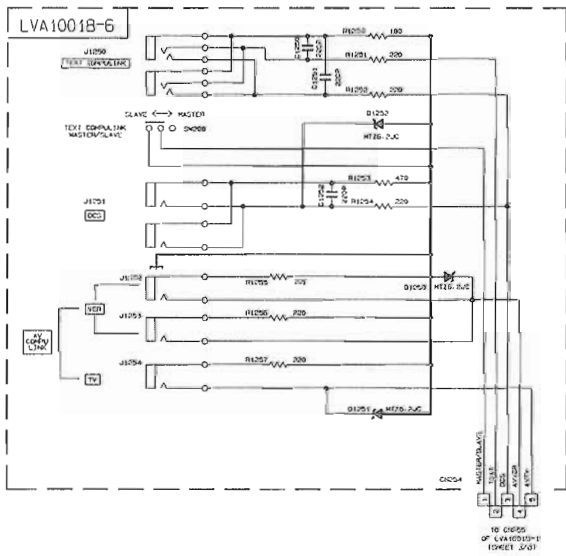
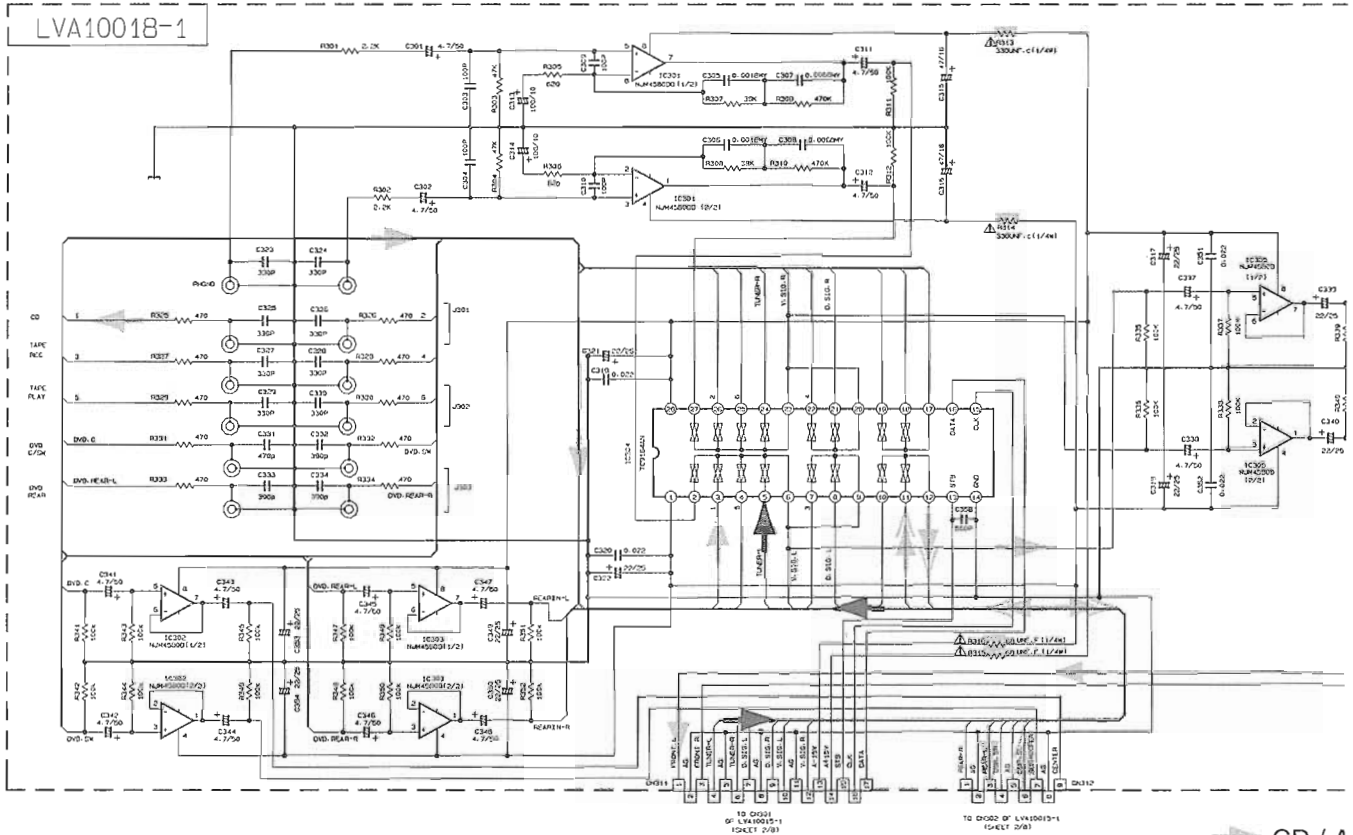
5

4

3

2

1



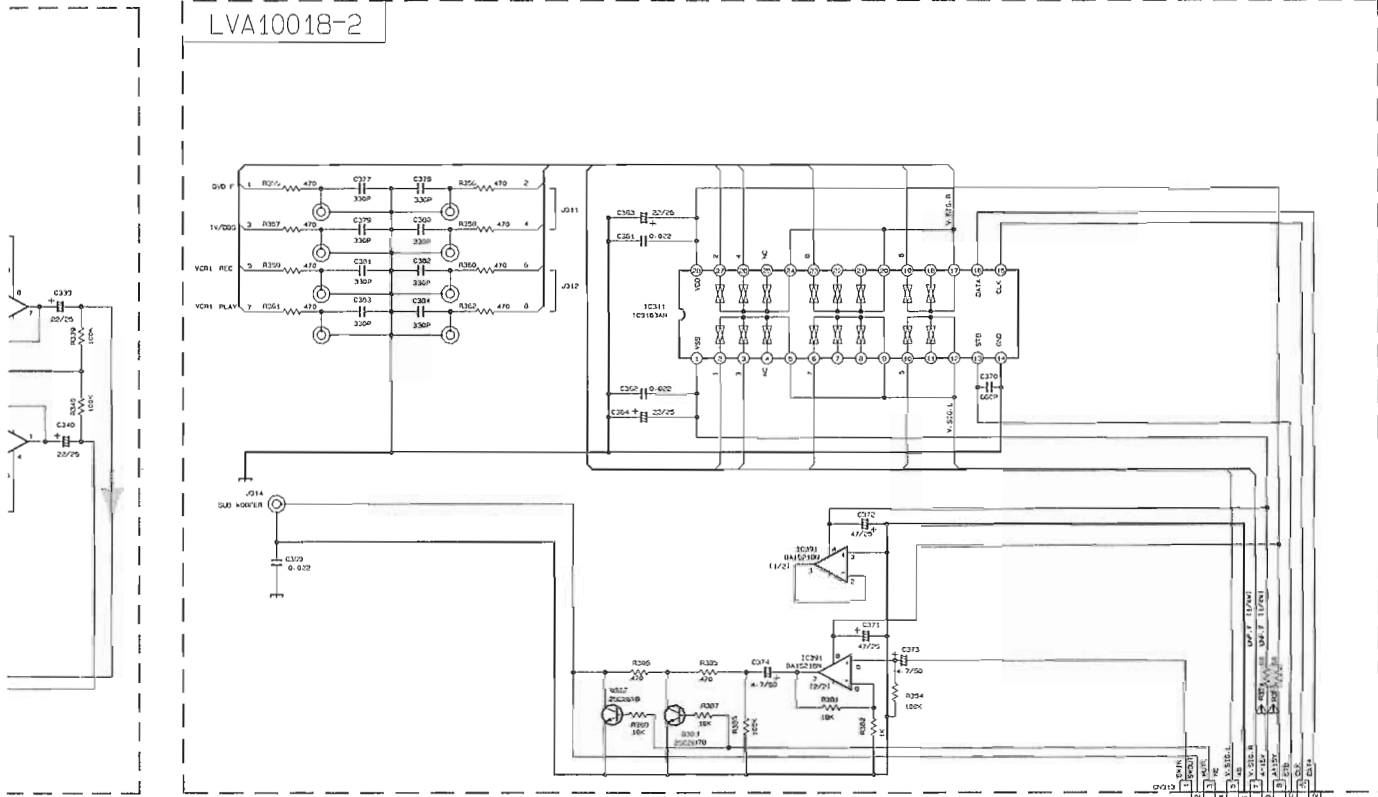
A

B

C

D

LVA10018-2



CD / AUDIO Signal
 TUNER Signal
 SURROUND Signal

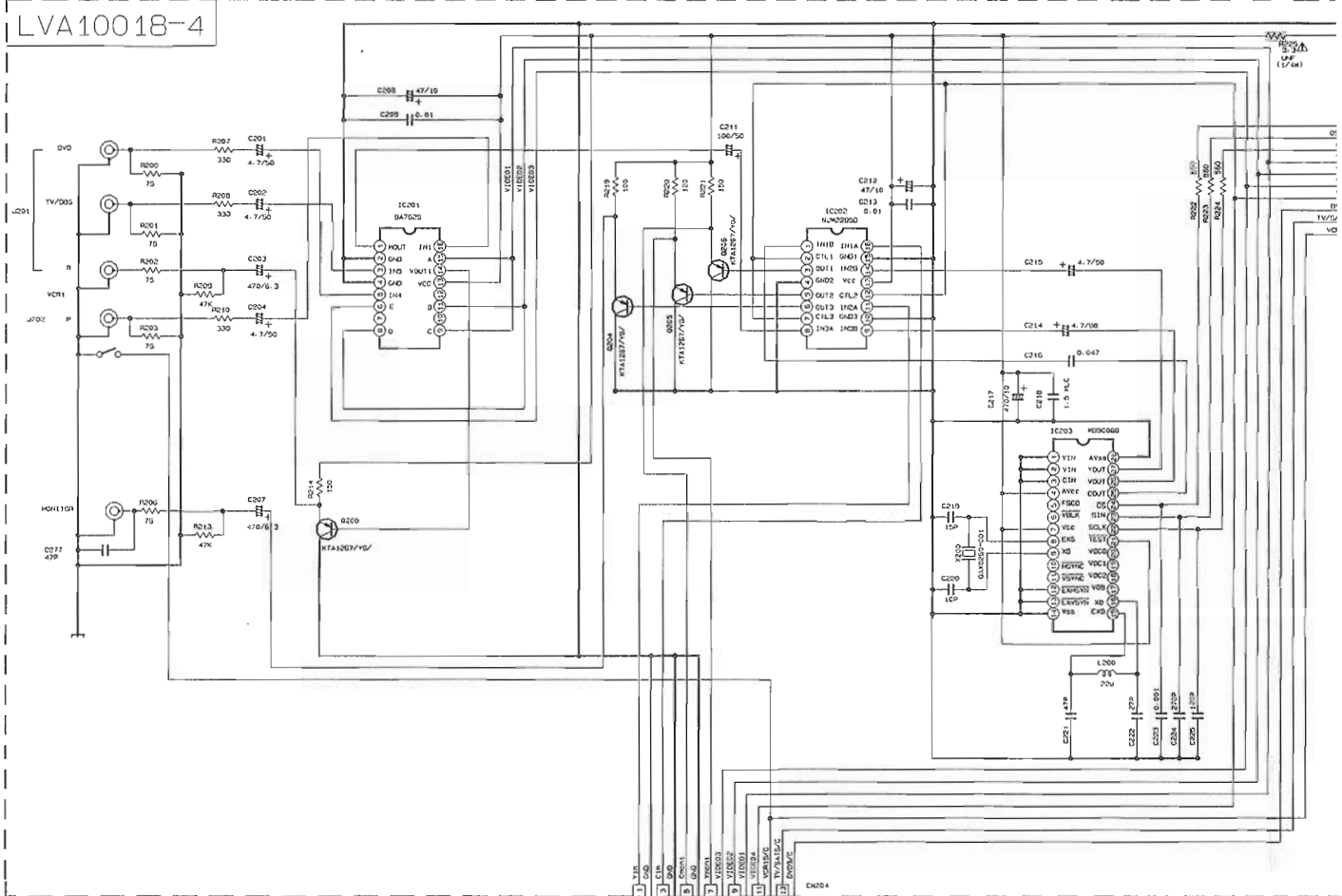
⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

MODEL RX-7000VBK

SHEET 5/8

10-00023 OF LVA10015-1 19-021 2/91

Video signal section



5

4

3

2

1

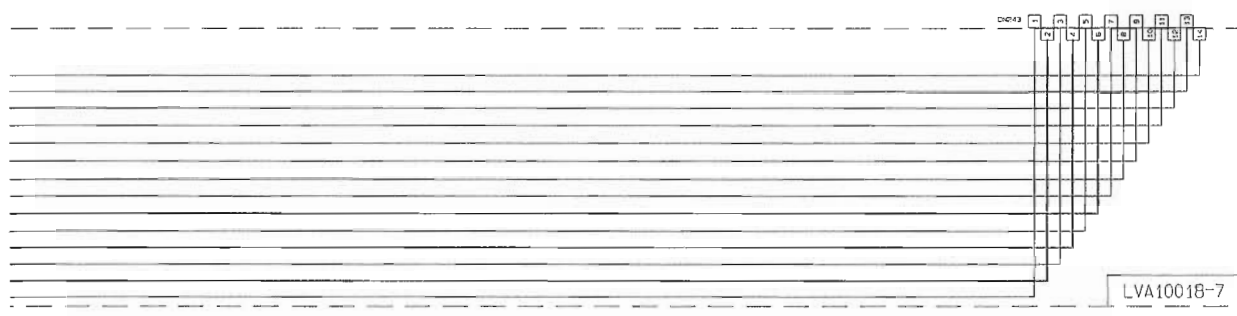
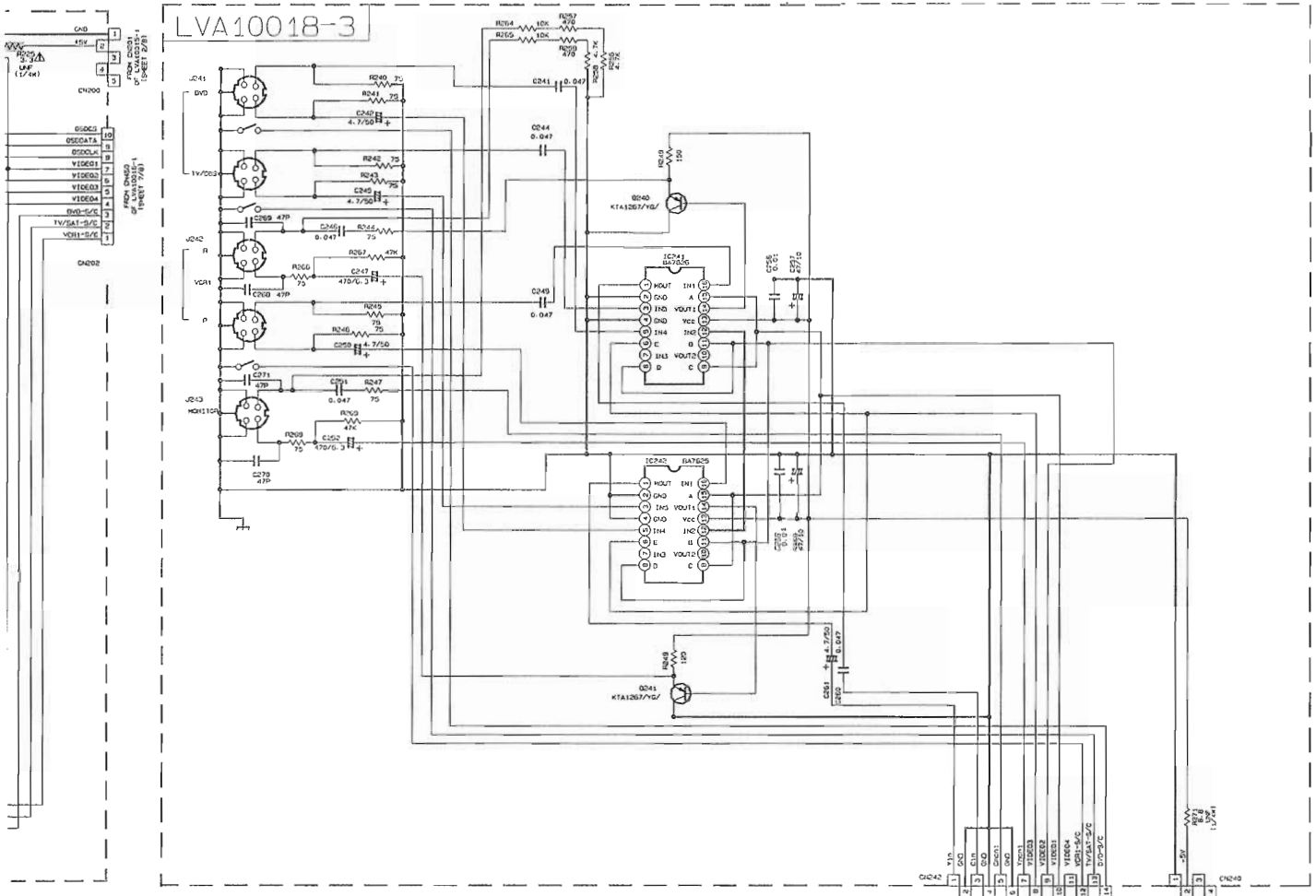
A

B

C

2-32

D



MODEL RX-7000VBK SHEET 6/8

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

■ FL Display & System control section

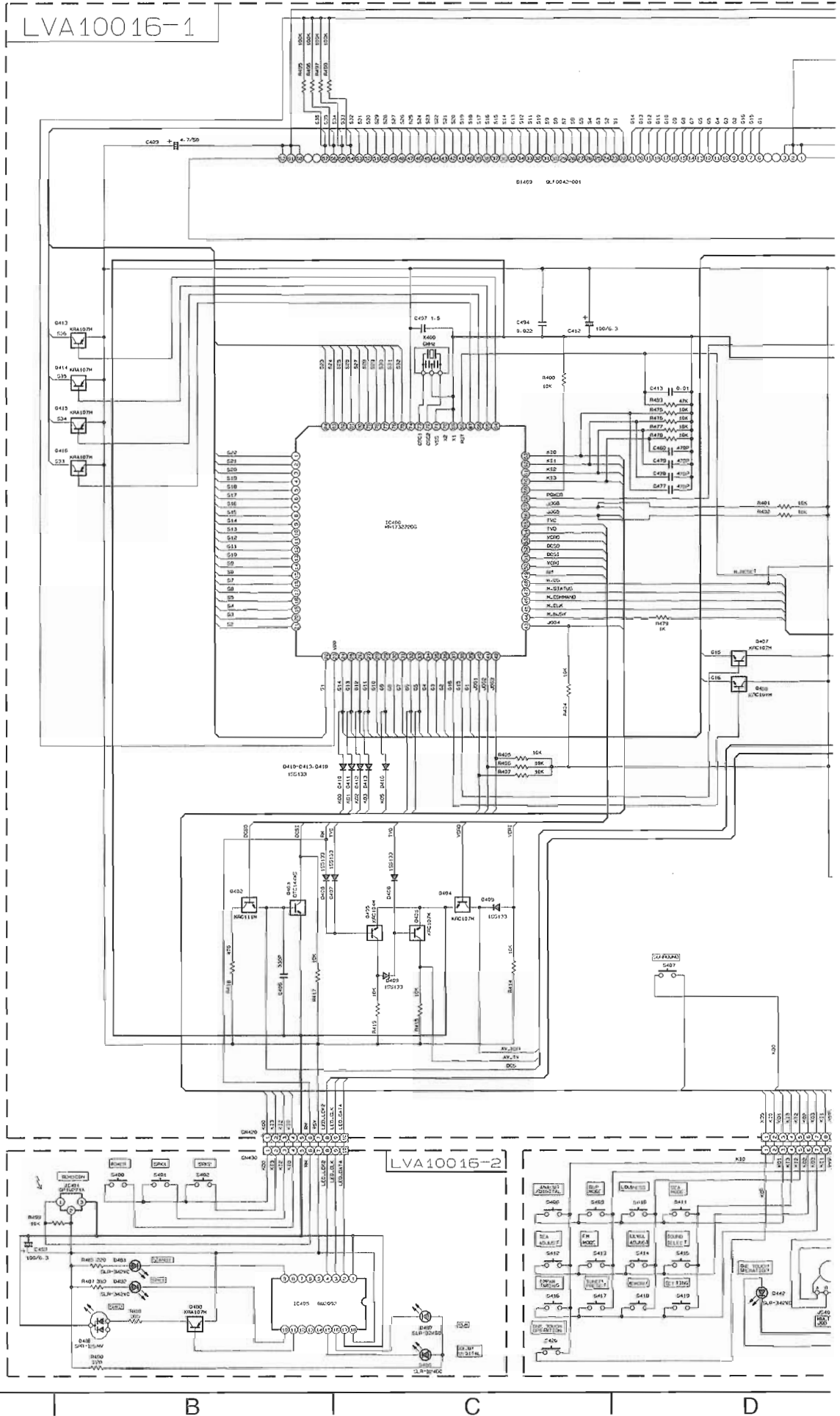
5

4

3

2

1

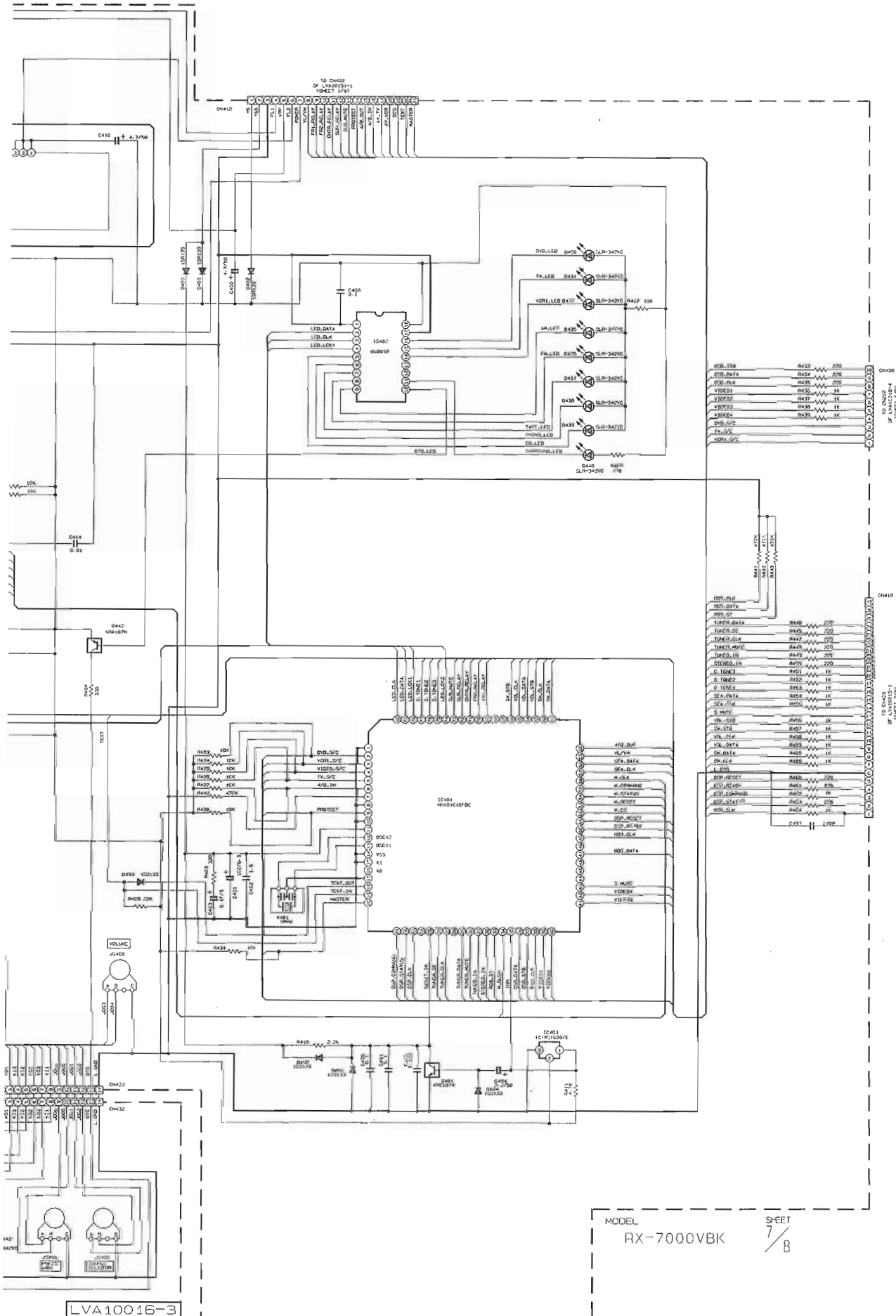


A

B

C

D



MODEL
RX-7000VBK

SHEET
7/8

DSP Section

LVA10086

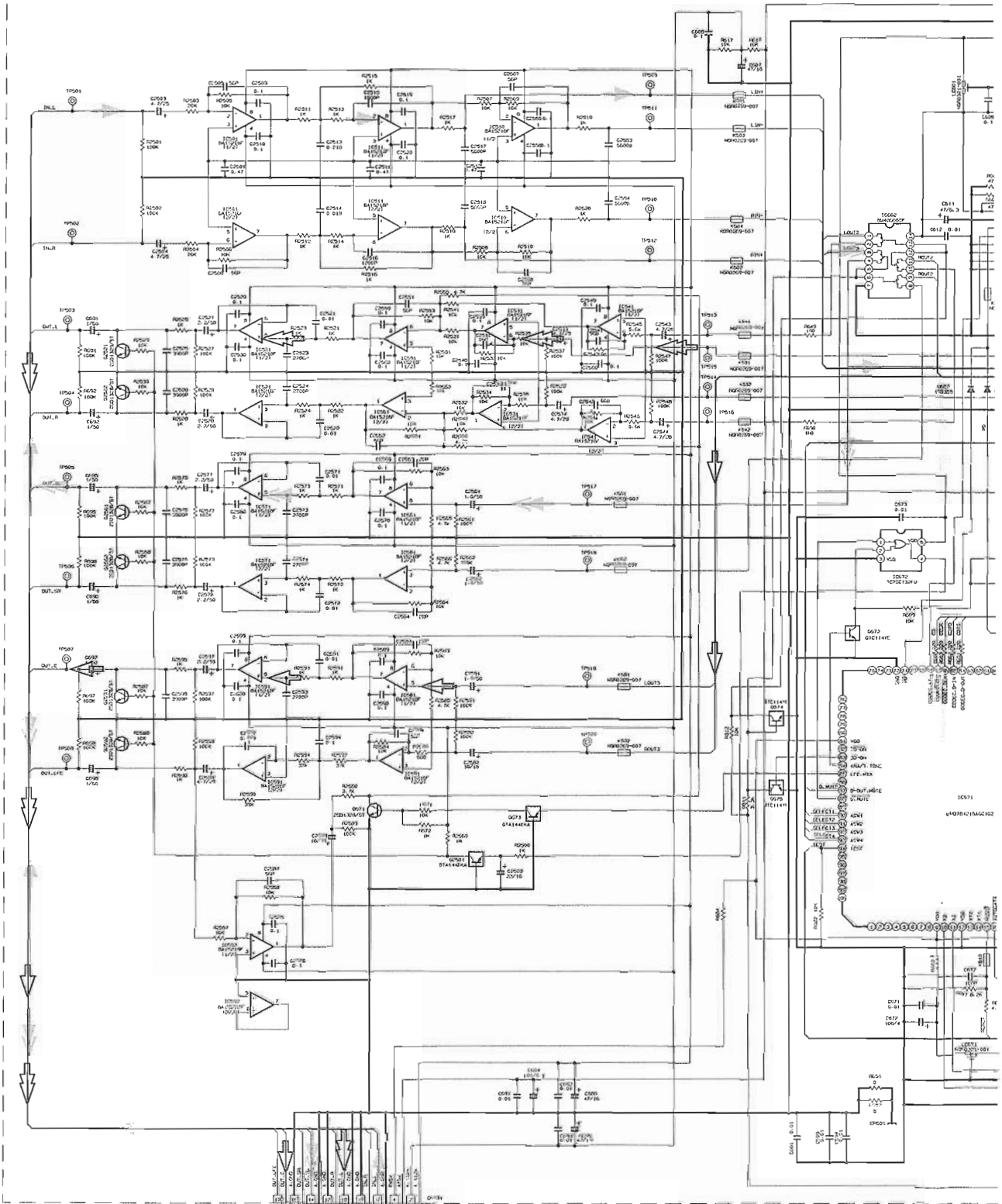
5

4

3

2

1



➡ SURROUND Signal ➡ AUDIO Signal ⚠ Parts to be replaced when necessary
➡ CENTER Signal ➡ FRONT Signal ⚠ When necessary

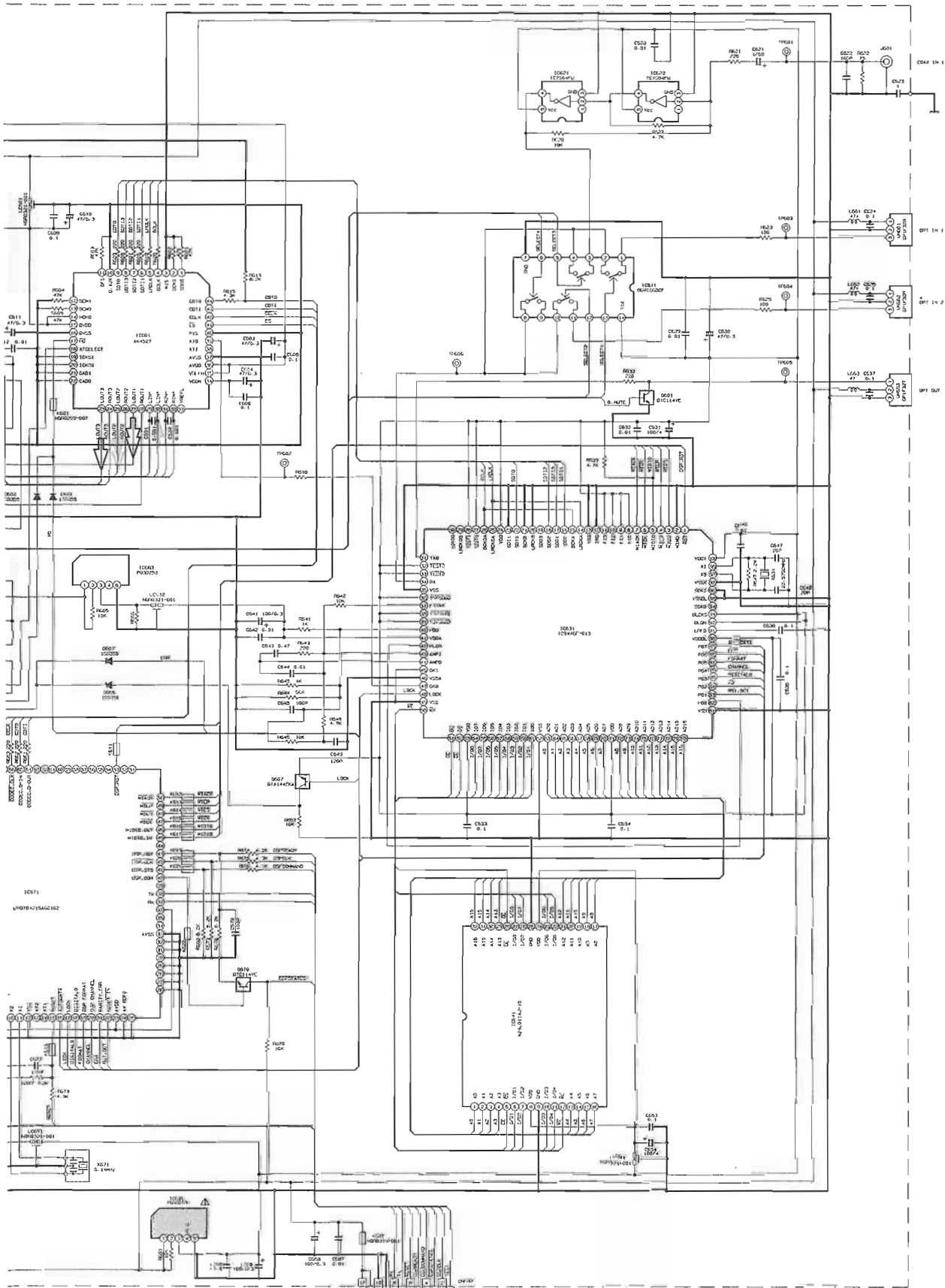
A

B

C

2-34

D



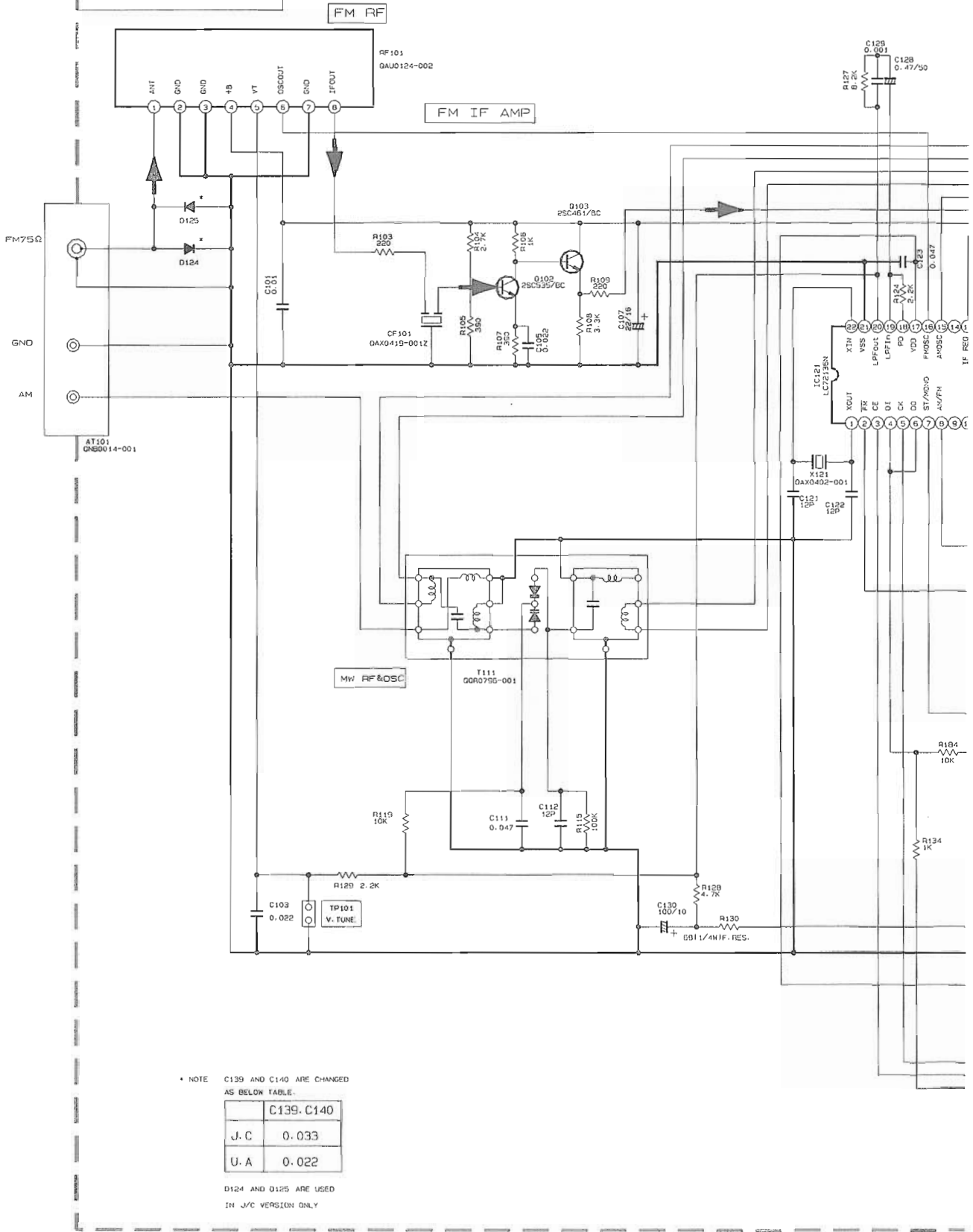
Parts are safety assurance parts.
When replacing those parts make
sure to use the specified one.

MODEL
RX-7000VBK

SHEET
8
E

■ Tuner section

FOR J, C, U, A
LVA10009

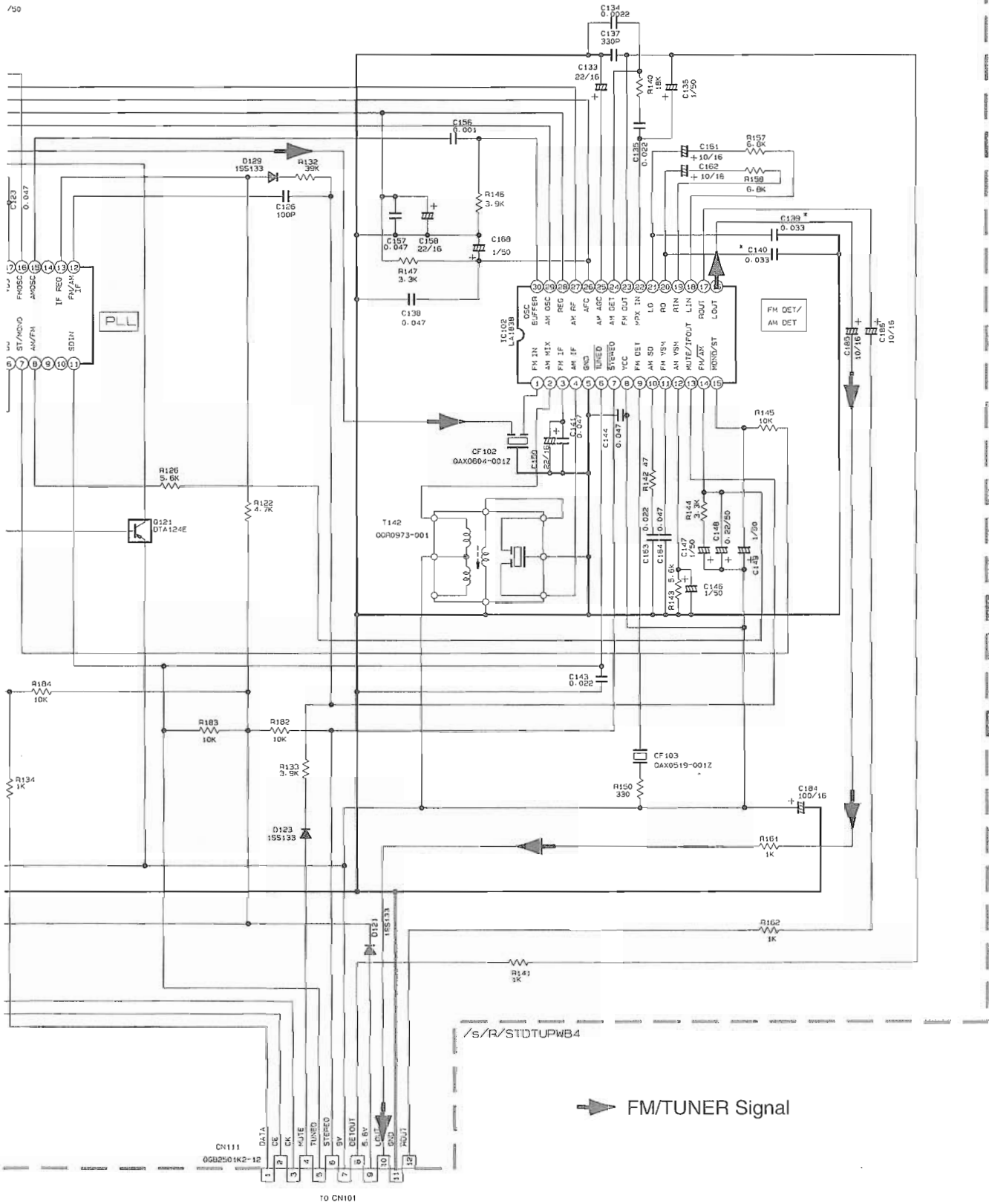


* NOTE C139 AND C140 ARE CHANGED AS BELOW TABLE.

	C139, C140
J. C	0.033
U. A	0.022

D124 AND D125 ARE USED IN J/C VERSION ONLY

7/50

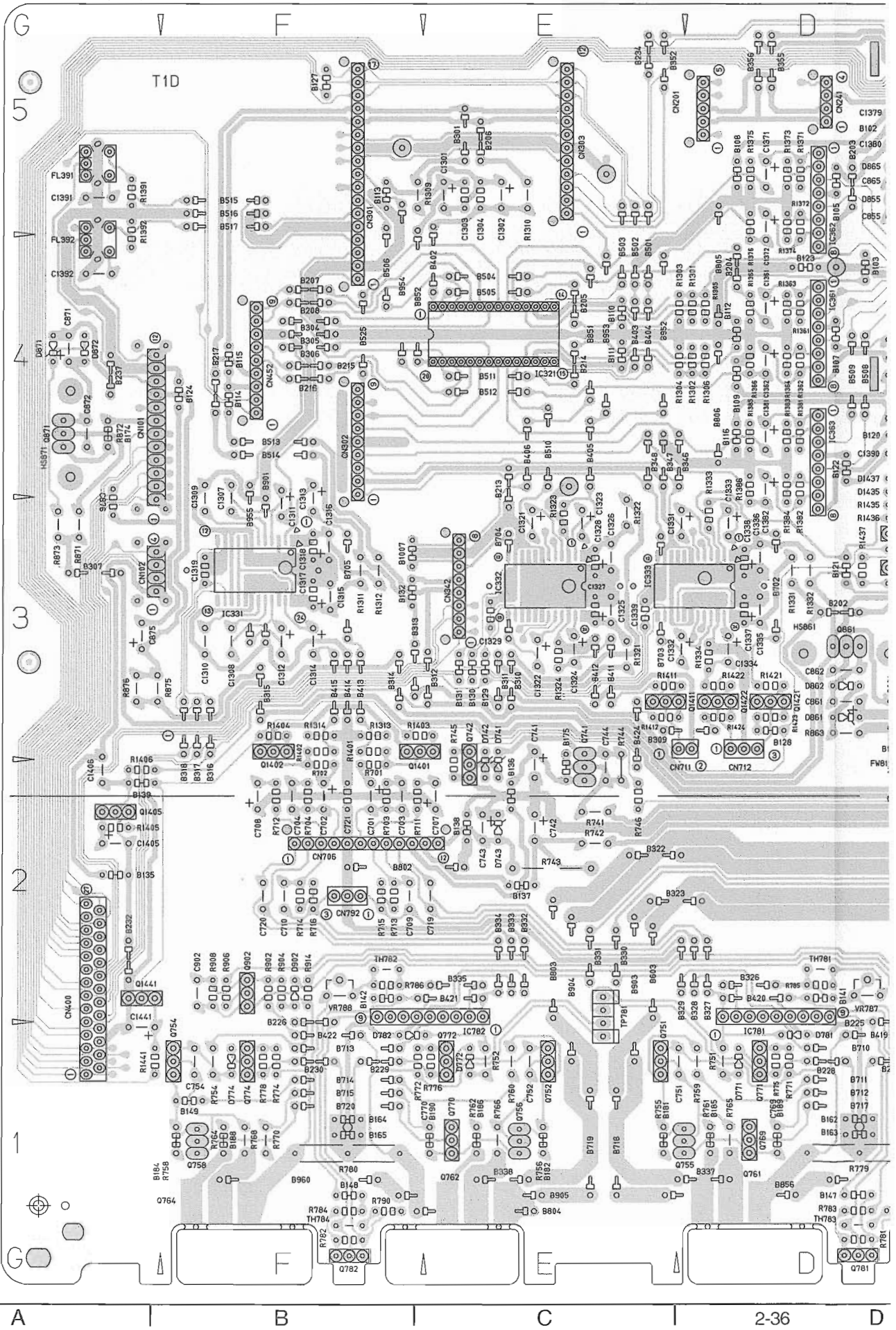


FM/TUNER Signal

Printed circuit boards

■ Main board

5
4
3
2
1



FL Display & System control board

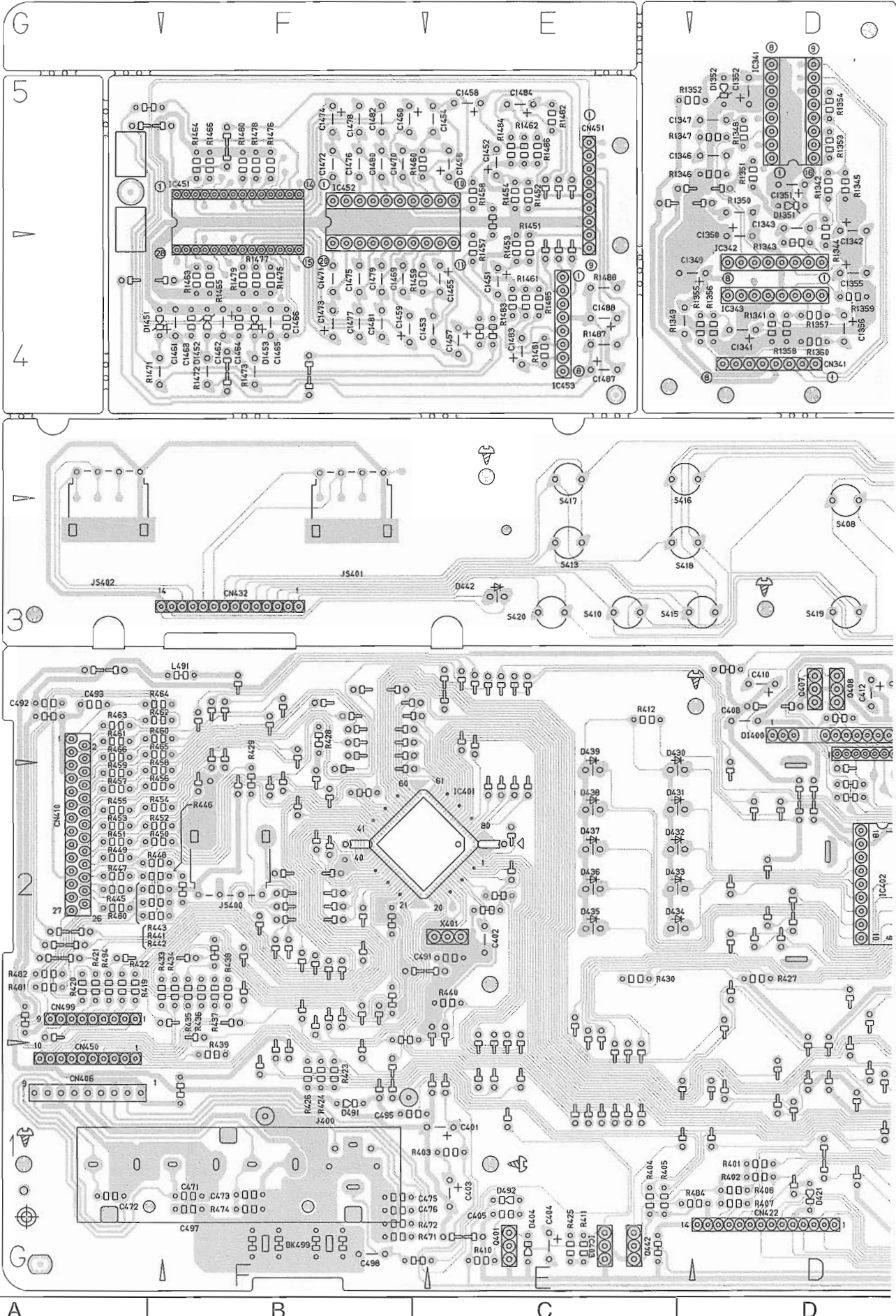
5

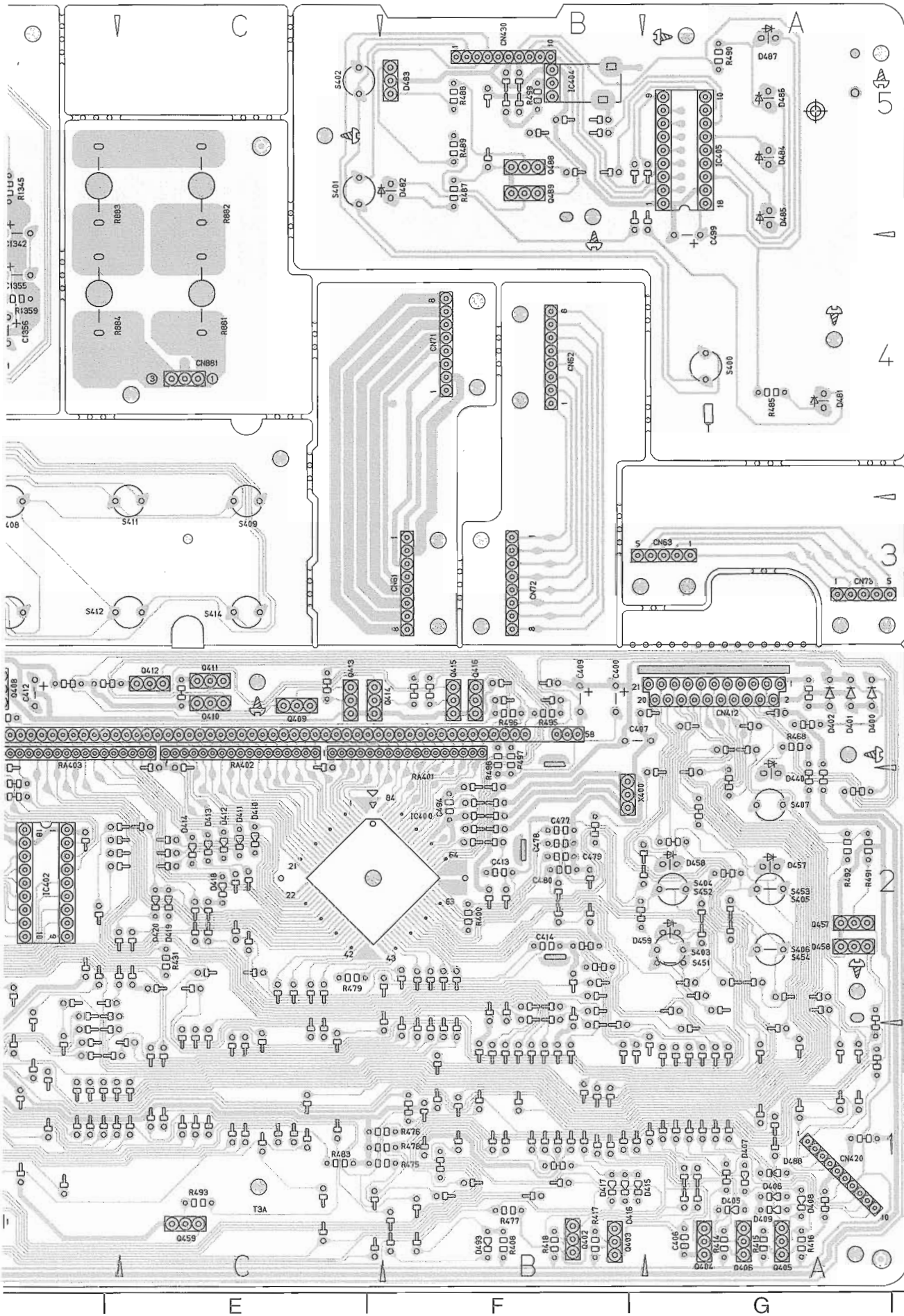
4

3

2

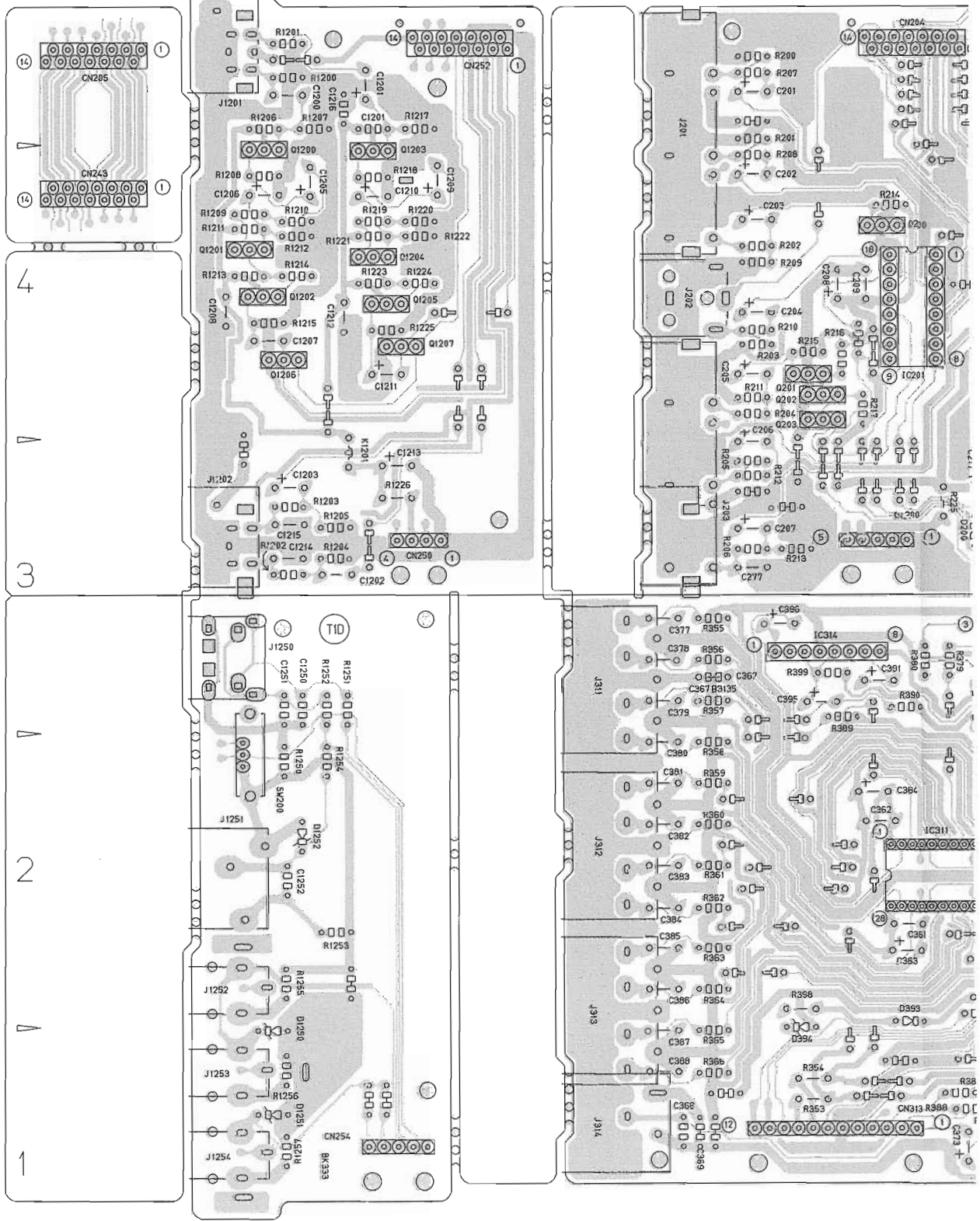
1

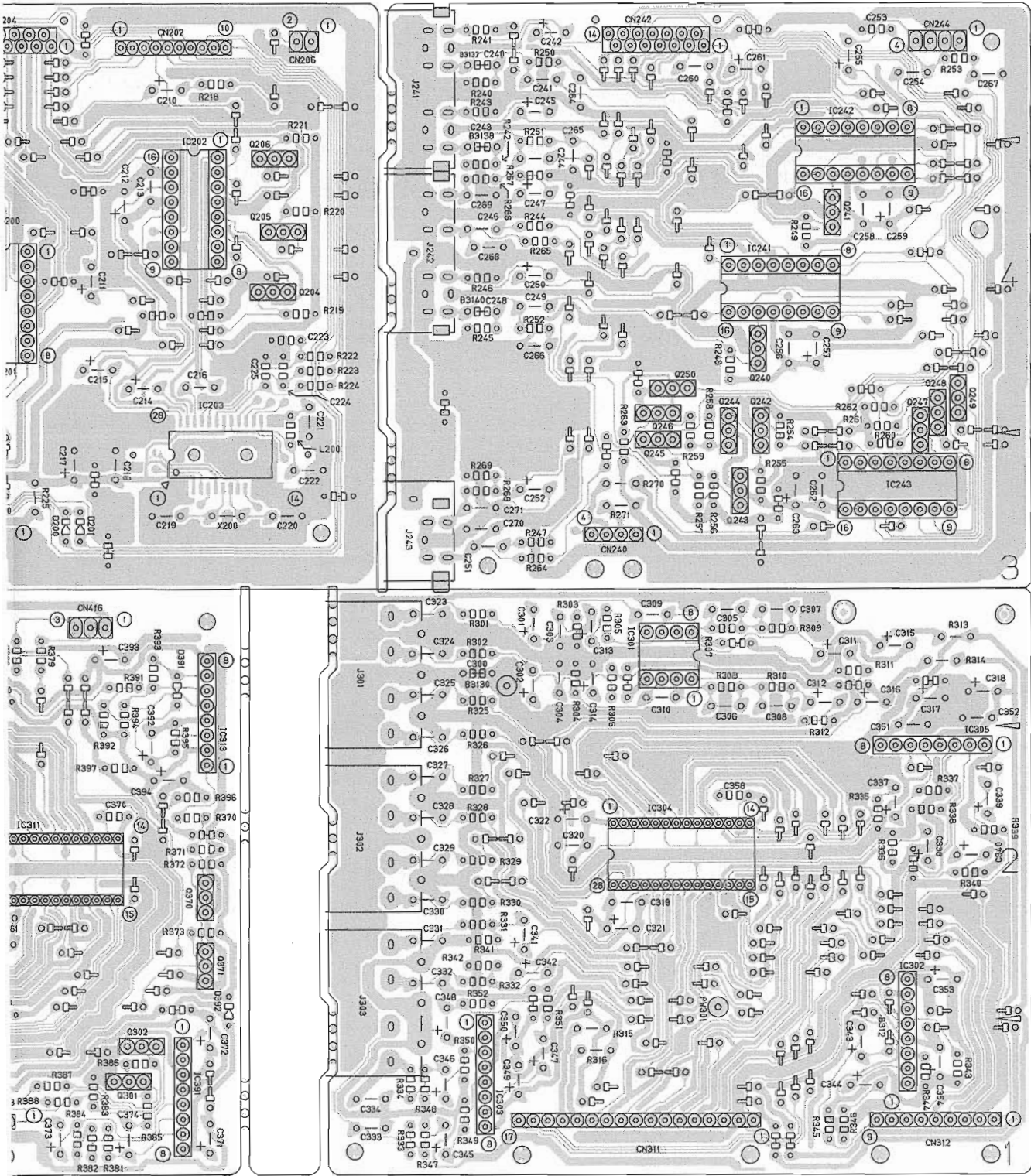




■ Input / output board

5
4
3
2
1





D

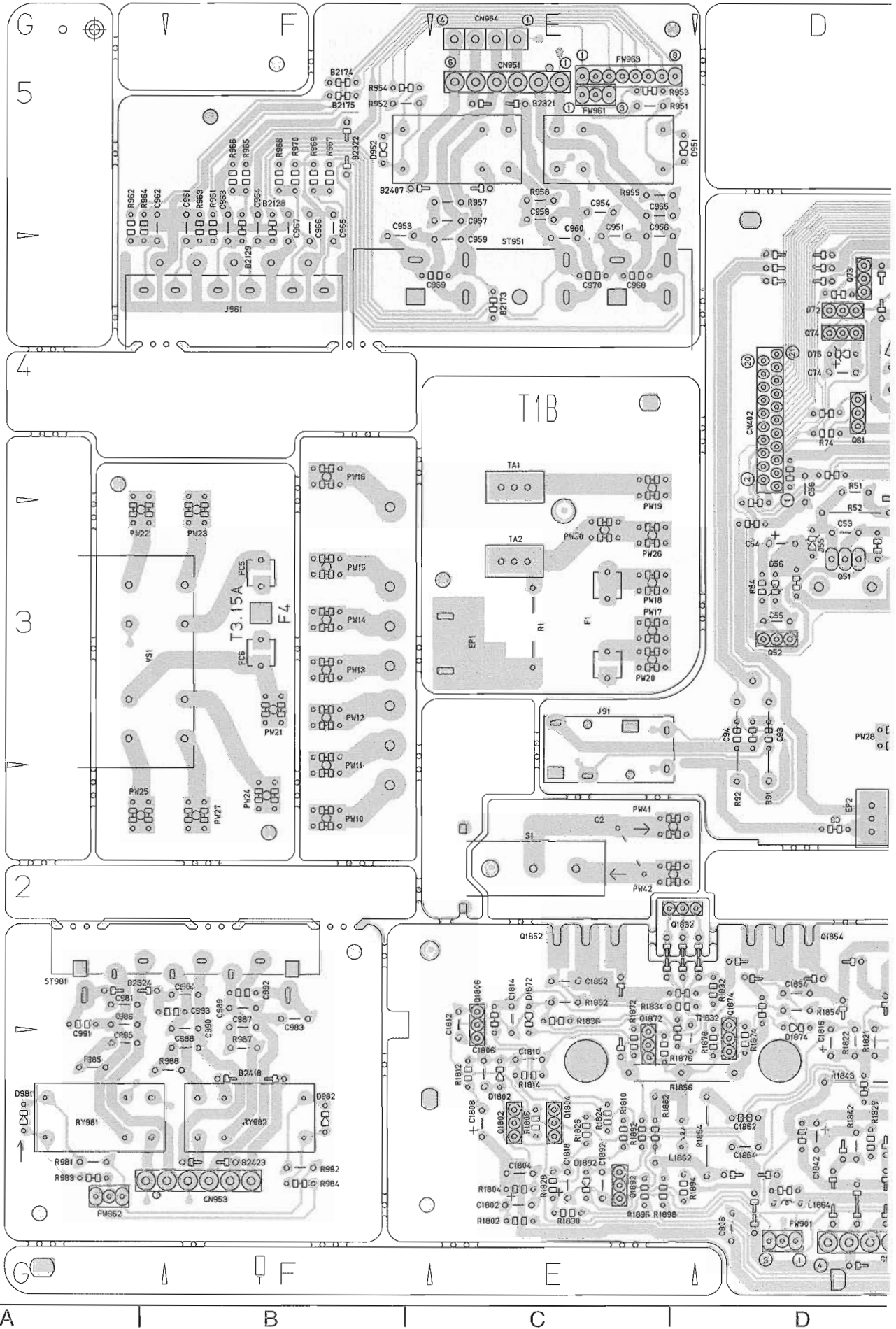
E

F

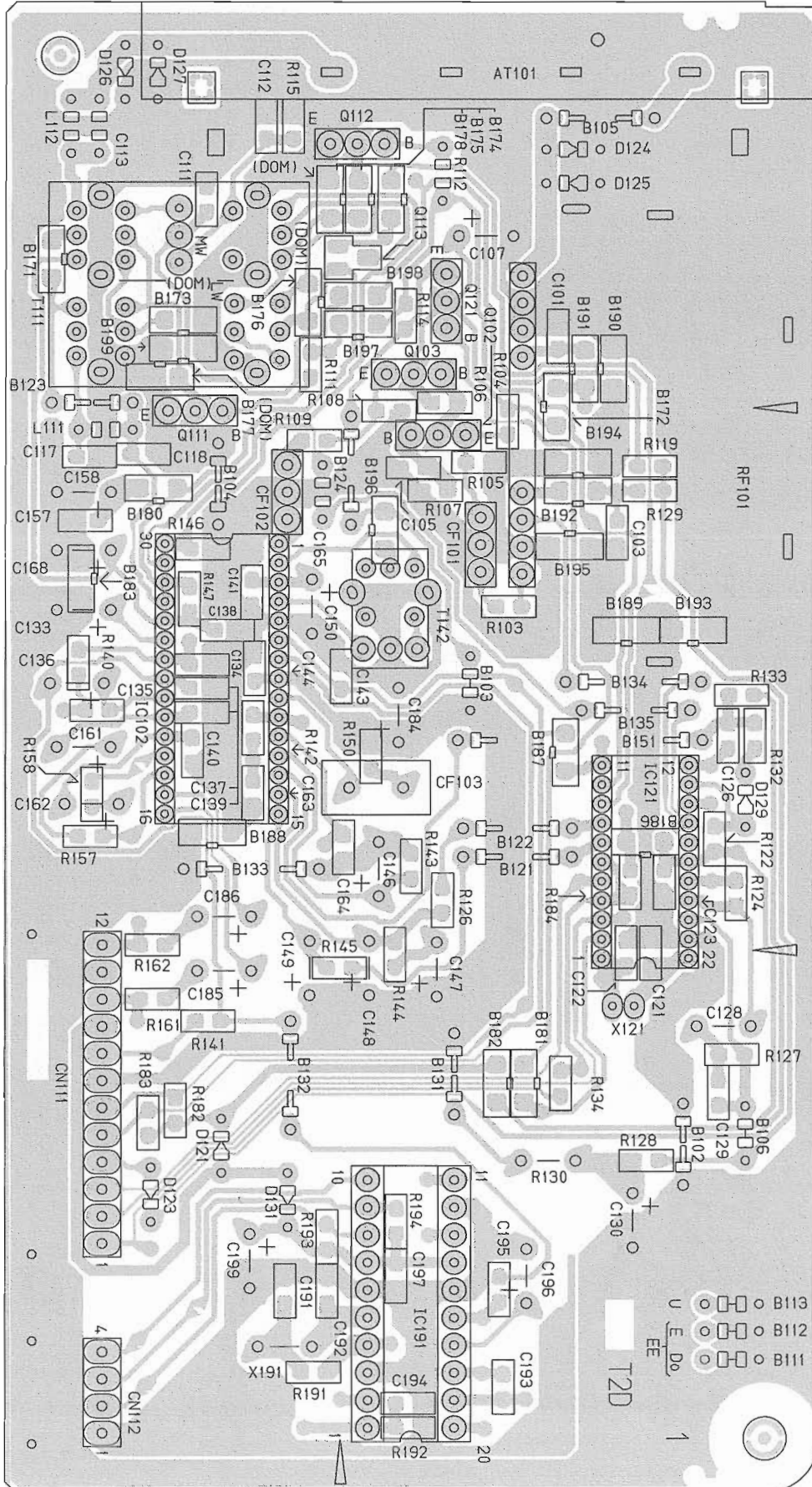
G

H

■ Power AMP. & Power supply board



■ Tuner board



PARTS LIST

[RX-7000VBK]

* All printed circuit boards and its assemblies are not available as service parts.

Areas suffix

J ----- The U.S.A.
C ----- Canada

- Contents -

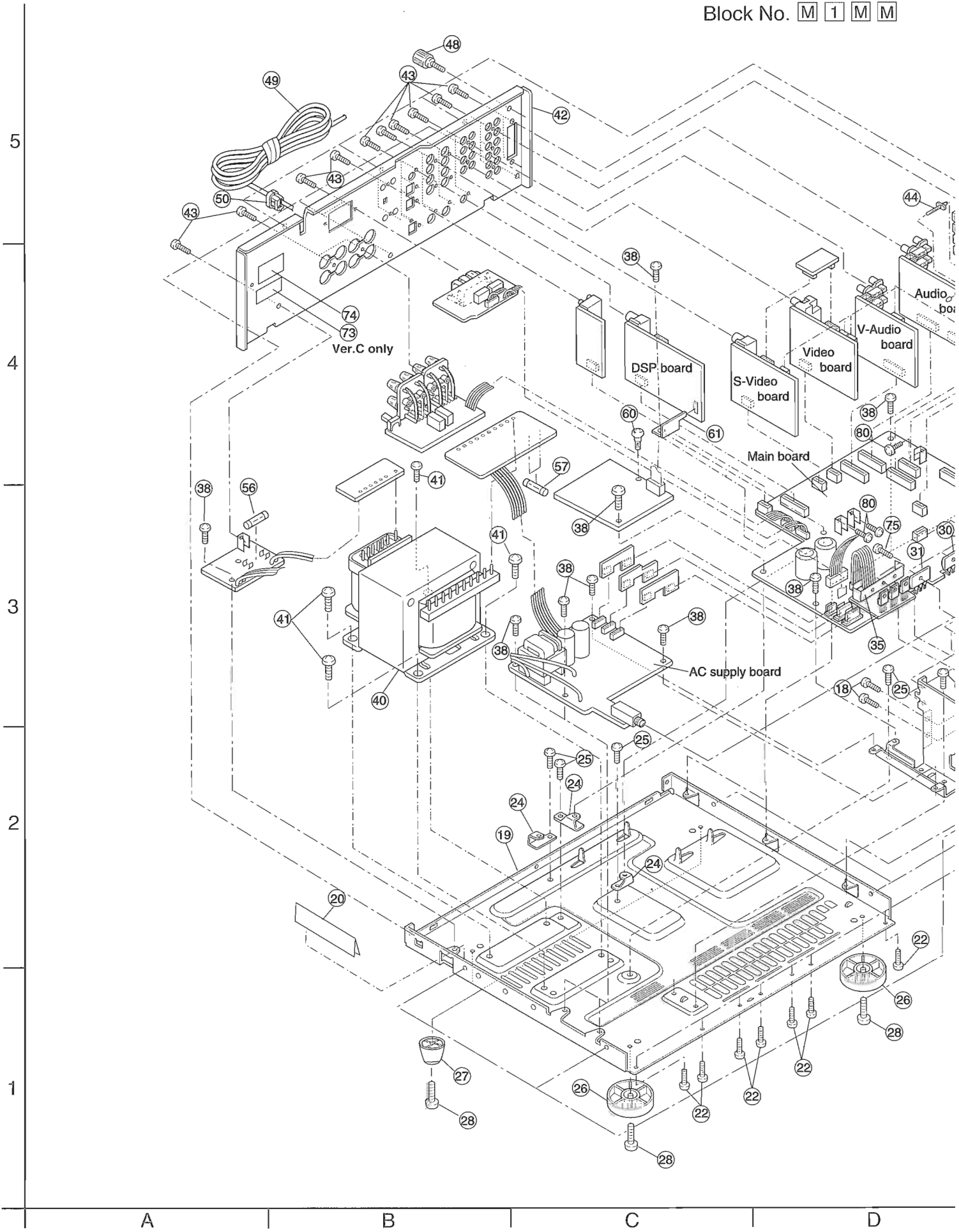
Exploded view of general assembly and parts list	-----	3-3
Electrical parts List	-----	3-5
Packing materials and accessories parts list	-----	3-20

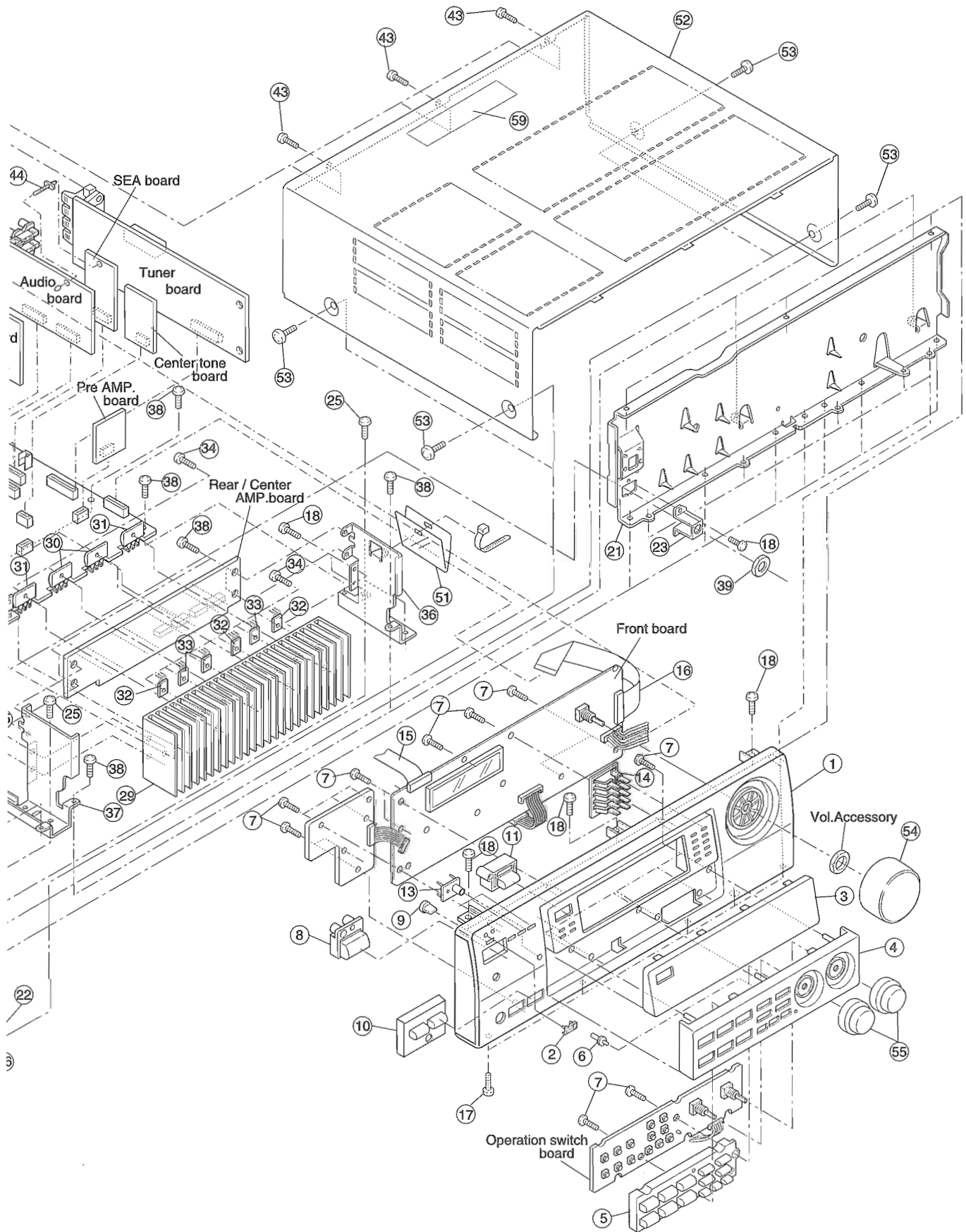
RX-7000VBK

-MEMO-

Exploded view of general assembly and parts list

Block No. M 1 M M





■ Parts list (General assembly)

Block No. M1MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	1	LV10018-029A	FRONT PANEL	1		
	2	VJD5429-001SS	JVC MARK	1		
	3	LV20031-013A	LENS	1		
	4	LV20032-011A	FRONT ESC	1		
	5	LV20034-001A	PUSH BUTTON	1		
	6	LV40099-001A	INDICATOR	1		
	7	QYSDSF2608Z	SCREW	19		
	8	LV30068-001A	P.BUTTON(POWER)	1		
	9	FSJD4001-002	INDICATOR	1	POWER	
	10	LV30069-001A	P.BUTTON ASSY	1	SPK	
	11	LV30071-001A	P.BUTTON ASSY	1	DIGITAL	
	13	E308744-002	REMOTE LENS	1	BLACK	
	14	LV30073-001A	SOURCE INDICATO	1		
	15	QUQC12-2120CJ	CARD WIRE	1		
	16	QUQC12-2722CJ	CARD WIRE	1		
	17	QYSDSG3008M	SCREW	5	FRONT D	
	18	QYSBSG3008E	T.SCREW	8		
	19	LV10019-002A	CHASSIS BASE	1		
	20	EXO150010H09S11	FELT SPACER	1	FOR C.BASE	
	21	LV10020-001A	FRONT BRACKET	1		
	22	QYSDSG3008E	T.SCREW	7	C.B-F.B	
	23	LE40139-001A	H.P. BKT	1		
	24	E68587-223SM	CB BKT	3		
	25	QYSBST3006E	T.SCREW	7		
	26	QZF6018-001	FOOT	2		
	27	E47227-036	FOOT	2		
	28	QYSBST3010Z	T.SCREW	4	FOOT	
	29	LV30075-203A	HEAT SINK	1		
△	30	2SC3856/PY/-F1	TRANSISTOR	2	Q761.Q762	
△	31	2SA1492/PY/-F1	TRANSISTOR	2	Q763.Q764	
△	32	2SD2390LD/OPY/	TRANSISTOR	2	Q1851.Q1852	
△		2SD2390LD/OPY/	TRANSISTOR	1	Q1751	
△	33	2SB1560LD/OPY/	TRANSISTOR	2	Q1853.Q1854	
△		2SB1560LD/OPY/	TRANSISTOR	1	Q1752	
	34	E73525-003SS	SCREW	10	TR	
	35	LV41603-001A	LEAF SPRING	1		
	36	LV20035-001A	H.S BRACKET(R)	1		
	37	LV20036-001A	H.S BRACKET(L)	1		
	38	QYSBSGG3008E	T.SCREW	17		
	39	VKZ4150-001	SPECIAL NUT	1	H.P	
△	40	QQT0210-001	POWER TRANS.	1		
	41	QYSDSTL4008E	SPECIAL SCREW	4	P.TRANS	
	42	LV10021-061A	REAR PANEL	1		
	43	QYSBSGY3008E	SPECIAL SCREW	32		
	44	E302321-001	FASTNER	1	SPACER	
	48	E409257-001	GND TERMINAL	1		
△	49	QMPD220-200-JD	POWER CORD	1		
△	50	QHS3771-108	CORD STOPPER	1		

■ Parts list (General assembly)

Block No. M1MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	51	LV30076-001A	PROTECTOR	1		
	52	LV20038-006A	TOP COVER	1		
	53	E406308-003	SPECIAL SCREW	4		
	54	LV30480-004A	VOL KNOB ASS'Y	1		
	55	LV30481-001A	JOG KNOB ASS'Y	2		
△	56	QMF51U1-6R3-J8	FUSE	1	F1	
△	57	QMF51U1-2R0-J8	FUSE	2	F61.F62	
	59	E409396-001	CAUTION LABEL	1	VER.C	
		E409394-001	CAUTION LABEL	1	VER.J	
	60	E310243-002	PLASTIC RIVET	1	FOR FIX	
	61	LV41240-002A	BRACKET	1		
	73	E408632-002	RATING LABEL	1	VER.C	
	74	E65507-001	CAUTION LABEL	1	VER.C	
		E67199-001	CAUTION LABEL	1	VER.J	
	75	QYSBSG3008E	T.SCREW	1	TR(LEAF)	
	80	QYSBSG3008E	T.SCREW	3		

Electrical parts list

■ Electrical parts list (Main board)
Block No. 01

▲	Item	Parts number	Parts name	Remarks	Area
	C 701	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C 702	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C 703	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C 704	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C 707	QETN1CM-107Z	E CAPACITOR	100MF 20% 16V	
	C 708	QETN1CM-107Z	E CAPACITOR	100MF 20% 16V	
	C 709	QCS11HJ-100	C CAPACITOR	10PF 5% 50V	
	C 710	QCS11HJ-100	C CAPACITOR	10PF 5% 50V	
	C 719	QFLC1HJ-472Z	M CAPACITOR	4700PF 5% 50V	
	C 720	QFLC1HJ-472Z	M CAPACITOR	4700PF 5% 50V	
	C 741	QETN2AM-476Z	E CAPACITOR	47MF 20% 100V	
	C 742	QETN2AM-476Z	E CAPACITOR	47MF 20% 100V	
	C 743	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C 751	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V	
	C 752	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V	
	C 753	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V	
	C 754	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V	
	C 791	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 792	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 793	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 794	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 801	QCE22HP-103	C CAPACITOR	.010MF +100%-0%	
	C 802	QCE22HP-103	C CAPACITOR	.010MF +100%-0%	
	C 805	QCE22HP-103	C CAPACITOR	.010MF +100%-0%	
▲	C 807	QEZO462-688	E CAPACITOR	6800MF	
▲	C 808	QEZO462-688	E CAPACITOR	6800MF	
	C 821	QEHC1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C 822	QCF31HZ-472Z	C CAPACITOR	4700PF +80%-20%	
	C 831	QEHC1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C 832	QCF31HZ-472Z	C CAPACITOR	4700PF +80%-20%	
	C 841	QEHC1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C 842	QCF31HZ-472Z	C CAPACITOR	4700PF +80%-20%	
	C 851	QEHC1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C 852	QCF31HZ-472Z	C CAPACITOR	4700PF +80%-20%	
	C 861	QEHC1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C 862	QCF31HZ-472Z	C CAPACITOR	4700PF +80%-20%	
	C 871	QEHC1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C 872	QCF31HZ-472Z	C CAPACITOR	4700PF +80%-20%	
	C 875	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C 903	QER61HM-226Z	E CAPACITOR	22MF 20% 50V	
	C 904	QCF11HZ-103	C CAPACITOR	.010MF +80%-20%	
	C 905	QCB31HK-102Z	C CAPACITOR	1000PF 10% 50V	
	C 906	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C 920	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V	
	C 921	QER61CM-107Z	E CAPACITOR	100MF 20% 16V	
	CN 81	QGB2510J1-08	CONNECTOR		
	CN 82	QGB2510J1-08	CONNECTOR		
	CN 83	QGB2510J1-05	CONNECTOR		
	CN101	QGB2501J1-12	CONNECTOR		
	CN201	QGB2510J1-05	CONNECTOR		
	CN241	QGB2510J1-04	CONNECTOR		
	CN255	QGB2510J1-05	CONNECTOR		
	CN301	QGB2510J1-17	CONNECTOR		
	CN302	QGB2510J1-09	CONNECTOR		
	CN303	QGB2510J1-12	CONNECTOR		
	CN400	QGF1205C1-27	CONNECTOR		
	CN452	QGB2510J1-09	CONNECTOR		
	CN501	QGB1214J3-18S	CONNECTOR		
	CN601	QGB1214J3-12S	CONNECTOR		
	CN704	QGA3901C1-08	8P CONNECTOR		
	CN706	QGB2510J1-12	CONNECTOR		
	CN711	QGA2501C1-02	2P CONNECTOR		
	CN712	QGA2501C1-03	3P CONNECTOR		
	CN801	QJK012-032803	SKT WIRE ASSY		
	CN821	QGD2501C1-05Z	SOCKET I.M		
	CN901	QGD2501C1-03Z	SOCKET I.M		
	CN931	QGD2501C1-04Z	SOCKET I.M		
	CN932	QGD2501C1-03Z	SOCKET I.M		
	CN961	QGD2501C1-03Z	SOCKET I.M		
	C1301	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1302	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1303	QDVB1EZ-223Y	C CAPACITOR		
	C1304	QDVB1EZ-223Y	C CAPACITOR		
	C1309	QFVJ1HJ-224Z	CAPACITOR	.22MF 5% 50V	
	C1310	QFVJ1HJ-224Z	CAPACITOR	.22MF 5% 50V	
	C1311	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1312	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1313	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1314	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1315	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1316	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1317	QDVB1EZ-223Y	C CAPACITOR		
	C1318	QDVB1EZ-223Y	C CAPACITOR		
	C1319	QCB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C1321	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1322	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1323	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1324	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1325	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1326	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1327	QDVB1EZ-223Y	C CAPACITOR		
	C1328	QDVB1EZ-223Y	C CAPACITOR		
	C1329	QCB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C1331	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1332	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1333	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1334	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1335	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1336	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1337	QDVB1EZ-223Y	C CAPACITOR		
	C1338	QDVB1EZ-223Y	C CAPACITOR		
	C1339	QCB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C1361	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C1362	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C1369	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1370	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1371	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C1372	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C1379	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1380	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1381	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C1382	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C1389	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1390	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1391	QFLC1HJ-562Z	M CAPACITOR	5600PF 5% 50V	
	C1392	QFLC1HJ-562Z	M CAPACITOR	5600PF 5% 50V	
	C1405	QETN1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C1406	QENC1HM-106Z	NP E CAPACITOR	10MF 20% 50V	
	D 743	MTZJ18C-T2	Z DIODE I.M		
	D 771	1SS133-T2	SI DIODE IM		
	D 772	1SS133-T2	SI DIODE IM		
	D 773	1SS133-T2	SI DIODE IM		
	D 774	1SS133-T2	SI DIODE IM		
▲	D 801	30DF2-FC	DIODE		
▲	D 802	30DF2-FC	DIODE		
▲	D 803	30DF2-FC	DIODE		

■ Electrical parts list (Main board)

Block No. 01

▲	Item	Parts number	Parts name	Remarks	Area
▲	D 804	30DF2-FC	DIODE		
▲	D 821	MTZJ6.8C-T2	Z DIODE 1/M		
	D 822	1SS133-T2	SI DIODE 1M		
▲	D 831	MTZJ6.2C-T2	Z DIODE 1/M		
	D 832	1SS133-T2	SI DIODE 1M		
▲	D 841	MTZJ6.2C-T2	Z DIODE 1/M		
	D 842	1SS133-T2	SI DIODE 1M		
▲	D 851	MTZJ15C-T2	Z DIODE		
	D 852	1SS133-T2	SI DIODE 1M		
▲	D 861	MTZJ15C-T2	Z DIODE		
	D 862	1SS133-T2	SI DIODE 1M		
▲	D 871	MTZJ10C-T2	Z.DIODE 1.M		
	D 872	1SS133-T2	SI DIODE 1M		
	D 901	1SS133-T2	SI DIODE		
	D 902	1SS133-T2	SI DIODE		
	D 921	MTZJ4.7B-T2	Z DIODE		
	D 931	1SS133-T2	SI DIODE 1M		
	D 932	1SS133-T2	SI DIODE 1M		
	D 933	1SS133-T2	SI DIODE		
	D 934	1SS133-T2	SI DIODE		
	D 953	1SS133-T2	SI DIODE 1M		
	D 954	1SS133-T2	SI DIODE 1M		
	D 971	1SS133-T2	SI DIODE 1M		
	D 972	1SS133-T2	SI DIODE 1M		
	D1435	1SS133-T2	SI DIODE		
	D1436	1SS133-T2	SI DIODE		
	D1437	MTZJ4.7B-T2	Z DIODE		
	D1438	1SS133-T2	SI DIODE		
	EP801	QNZ0136-001Z	EARTH PLATE		
	FL391	QQR0590-001	FILTER		
	FL392	QQR0590-001	FILTER		
	FW811	QUM133-10Z4Z4	PARA RIBON WIRE		
	FW821	QUM135-08DGZ4	PARA RIBON WIRE		
	FW881	QUM133-26DGZ4	PARA RIBON WIRE		
	FW931	QUM137-16DGZ4	PARA RIBON WIRE		
	HL331	VYH7653-002	IC HOLDER		
	HL332	VYH7653-002	IC HOLDER		
	HL333	VYH7653-002	IC HOLDER		
	HS851	E70306-001	HEAT SINK		
	HS861	E70306-001	HEAT SINK		
	HS871	E70306-001	HEAT SINK		
	IC321	TC9162AN	IC		
	IC331	TC9459F	IC		
	IC332	TC9459F	IC		
	IC333	TC9459F	IC		
	IC361	NJM4580L	IC		
	IC362	BA15218N	IC		
	IC363	BA15218N	IC		
	IC901	TA7317P	IC		
	L 791	QQLZ003-1R0	INDUCTOR		
	L 792	QQLZ003-1R0	INDUCTOR		
▲	Q 751	2SC2389S/S/-T	TRANSISTOR		
▲	Q 752	2SC2389S/S/-T	TRANSISTOR		
▲	Q 753	2SA1038S/S/-T	TRANSISTOR		
▲	Q 754	2SA1038S/S/-T	TRANSISTOR		
▲	Q 755	2SD669A/BC/	TRANSISTOR		
▲	Q 756	2SD669A/BC/	TRANSISTOR		
▲	Q 757	2SB649A/BC/	TRANSISTOR		
▲	Q 758	2SB649A/BC/	TRANSISTOR		
	Q 771	2SC2389S/SE/-T	TRANSISTOR		
	Q 772	2SC2389S/SE/-T	TRANSISTOR		
	Q 773	2SA1038S/SE/-T	TRANSISTOR		
	Q 774	2SA1038S/SE/-T	TRANSISTOR		

▲	Item	Parts number	Parts name	Remarks	Area
	Q 781	2SD637/QR/	TRANSISTOR		
	Q 782	2SD637/QR/	TRANSISTOR		
▲	Q 821	2SD2061/EF/	TRANSISTOR		
▲	Q 831	2SD2061/EF/	TRANSISTOR		
▲	Q 841	2SD2061/EF/	TRANSISTOR		
▲	Q 851	2SD2061/EF/	TRANSISTOR		
▲	Q 861	2SB1187/EF/	TRANSISTOR		
▲	Q 871	2SD2061/EF/	TRANSISTOR		
	Q 901	2SC2389S/SE/-T	TRANSISTOR		
	Q 902	2SC2389S/SE/-T	TRANSISTOR		
	Q 903	2SA1038S/SE/-T	TRANSISTOR		
	Q 921	KTC3199/GL/-T	TRANSISTOR		
	Q 931	KRC105M-T	D.TR.I.M.		
	Q 932	KRC105M-T	D.TR.I.M.		
	Q 951	KRC105M-T	D.TR.I.M.		
	Q 952	KRC105M-T	D.TR.I.M.		
	Q1401	2SC2878/AB/-T	TRANSISTOR		
	Q1402	2SC2878/AB/-T	TRANSISTOR		
	Q1405	KRA104M-T	D.TR.I.M		
	Q1411	2SC2878/AB/-T	TRANSISTOR		
	Q1421	2SC2878/AB/-T	TRANSISTOR		
	Q1422	2SC2878/AB/-T	TRANSISTOR		
	Q1435	2SA933S/RS/-T	TRANSISTOR		
	Q1438	KRA104M-T	D.TR.I.M		
	R 701	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 702	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 703	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 704	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 711	QRE141J-621Y	C RESISTOR	620 5% 1/4W	
	R 712	QRE141J-621Y	C RESISTOR	620 5% 1/4W	
	R 713	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 714	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 715	QRE141J-823Y	C RESISTOR	82K 5% 1/4W	
	R 716	QRE141J-823Y	C RESISTOR	82K 5% 1/4W	
▲	R 741	QRJ146J-120X	UNF C.RES 1/M	12 5% 1/4W	
▲	R 742	QRJ146J-120X	UNF C.RES 1/M	12 5% 1/4W	
▲	R 743	QRL022J-562	UNF.OMF.RES.	5.6K 5% 1/2W	
▲	R 751	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
▲	R 752	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
▲	R 753	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
▲	R 754	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
▲	R 759	QRJ146J-272X	UNF C.RES 1/M	2.7K 5% 1/4W	
▲	R 760	QRJ146J-272X	UNF C.RES 1/M	2.7K 5% 1/4W	
▲	R 761	QRJ146J-4R7X	UNF C.RES 1/M	4.7 5% 1/4W	
▲	R 762	QRJ146J-4R7X	UNF C.RES 1/M	4.7 5% 1/4W	
▲	R 763	QRJ146J-4R7X	UNF C.RES 1/M	4.7 5% 1/4W	
▲	R 764	QRJ146J-4R7X	UNF C.RES 1/M	4.7 5% 1/4W	
▲	R 765	QRJ146J-120X	UNF C.RES 1/M	12 5% 1/4W	
▲	R 766	QRJ146J-120X	UNF C.RES 1/M	12 5% 1/4W	
▲	R 767	QRJ146J-120X	UNF C.RES 1/M	12 5% 1/4W	
▲	R 768	QRJ146J-120X	UNF C.RES 1/M	12 5% 1/4W	
▲	R 769	QRJ146J-271X	UNF C.RES 1/M	270 5% 1/4W	
▲	R 770	QRJ146J-271X	UNF C.RES 1/M	270 5% 1/4W	
	R 771	QRE141J-561Y	C RESISTOR	560 5% 1/4W	
	R 772	QRE141J-561Y	C RESISTOR	560 5% 1/4W	
	R 773	QRE141J-561Y	C RESISTOR	560 5% 1/4W	
	R 774	QRE141J-561Y	C RESISTOR	560 5% 1/4W	
	R 775	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R 776	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R 777	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R 778	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
▲	R 779	QRZ0196-R22	EMIT.RESISTOR	1/1W	
▲	R 780	QRZ0196-R22	EMIT.RESISTOR	1/1W	

■ Electrical parts list (Main board)

Block No. 01

▲	Item	Parts number	Parts name	Remarks	Area
	R 781	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R 782	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R 783	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 784	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 785	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 786	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 789	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 790	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
▲	R 791	QRJ125J-330	UNF.C.RES.	33 5% 1/2W	
▲	R 792	QRJ125J-330	UNF.C.RES.	33 5% 1/2W	
▲	R 793	QRL022J-100	UNF.OMF.RES.	10 5% 1/2W	
▲	R 794	QRL022J-100	UNF.OMF.RES.	10 5% 1/2W	
	R 801	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 802	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
▲	R 823	QRJ146J-122X	UNF.C.RES 1/M	1.2K 5% 1/4W	
▲	R 833	QRJ146J-122X	UNF.C.RES 1/M	1.2K 5% 1/4W	
▲	R 843	QRJ146J-122X	UNF.C.RES 1/M	1.2K 5% 1/4W	
▲	R 851	QRK126J-120X	UNF.C.RES. 1.M	12 5% 1/2W	
▲	R 853	QRJ146J-222X	UNF.C.RES 1/M	2.2K 5% 1/4W	
▲	R 861	QRK126J-120X	UNF.C.RES. 1.M	12 5% 1/2W	
▲	R 863	QRJ146J-222X	UNF.C.RES 1/M	2.2K 5% 1/4W	
▲	R 871	QRJ146J-120X	UNF.C.RES 1/M	12 5% 1/4W	
▲	R 873	QRJ146J-332X	UNF.C.RES 1/M	3.3K 5% 1/4W	
	R 901	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R 902	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R 903	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R 904	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R 905	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
	R 906	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
	R 909	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 911	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 912	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 913	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 914	QRE141J-823Y	C RESISTOR	82K 5% 1/4W	
	R 915	QRE141J-823Y	C RESISTOR	82K 5% 1/4W	
	R 916	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R 917	QRE141J-683Y	C RESISTOR	68K 5% 1/4W	
	R 918	QRE141J-822Y	C RESISTOR	8.2K 5% 1/4W	
	R 919	QRE141J-822Y	C RESISTOR	8.2K 5% 1/4W	
	R 920	QRE141J-224Y	C RESISTOR	220K 5% 1/4W	
	R 921	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 922	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
▲	R 931	QRJ146J-120X	UNF.C.RES 1/M	12 5% 1/4W	
▲	R 932	QRJ146J-120X	UNF.C.RES 1/M	12 5% 1/4W	
▲	R 971	QRJ146J-120X	UNF.C.RES 1/M	12 5% 1/4W	
	RY931	QSK0042-001	RELAY		
	RY932	QSK0042-001	RELAY		
	RY971	QSK0057-001	RELAY		
	R1301	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R1302	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R1303	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R1304	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R1305	QRE141J-122Y	C RESISTOR	1.2K 5% 1/4W	
	R1306	QRE141J-122Y	C RESISTOR	1.2K 5% 1/4W	
▲	R1309	QRZ9005-680X	F.RES. 1.M	68 1/0W	
▲	R1310	QRZ9005-680X	F.RES. 1.M	68 1/0W	
▲	R1311	QRZ9005-680X	F.RES. 1.M	68 1/0W	
▲	R1312	QRZ9005-680X	F.RES. 1.M	68 1/0W	
	R1313	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1314	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
▲	R1321	QRZ9005-680X	F.RES. 1.M	68 1/0W	
▲	R1322	QRZ9005-680X	F.RES. 1.M	68 1/0W	
	R1323	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	

▲	Item	Parts number	Parts name	Remarks	Area
	R1324	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
▲	R1331	QRZ9005-680X	F.RES. 1.M	68 1/0W	
▲	R1332	QRZ9005-680X	F.RES. 1.M	68 1/0W	
	R1333	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1334	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1361	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1362	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1363	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1364	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1365	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1366	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
▲	R1369	QRZ9005-680X	F.RES. 1.M	68 1/0W	
▲	R1370	QRZ9005-680X	F.RES. 1.M	68 1/0W	
	R1371	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1372	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R1373	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1374	QRE141J-512Y	C RESISTOR	5.1K 5% 1/4W	
	R1375	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1376	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
▲	R1379	QRZ9005-680X	F.RES. 1.M	68 1/0W	
▲	R1380	QRZ9005-680X	F.RES. 1.M	68 1/0W	
	R1381	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1382	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1383	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1384	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1385	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1386	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
▲	R1389	QRZ9005-680X	F.RES. 1.M	68 1/0W	
▲	R1390	QRZ9005-680X	F.RES. 1.M	68 1/0W	
	R1391	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R1392	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R1401	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1402	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1403	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1404	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1405	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1405	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R1411	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1412	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1421	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1422	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1423	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1424	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1435	QRE141J-683Y	C RESISTOR	68K 5% 1/4W	
	R1436	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1437	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R1438	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
▲	R1741	QRJ146J-221X	UNF.C.RES 1/M	220 5% 1/4W	
	R1745	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R1748	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
▲	R1841	QRJ146J-221X	UNF.C.RES 1/M	220 5% 1/4W	
	R1845	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R1846	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R875	QRZ9005-220X	F.RES. 1.M	22 1/0W	
	ST931	QNB0048-001	SPK.TERMINAL		
▲	TH783	QAD0012-202	THERMISTOR		
▲	TH784	QAD0012-202	THERMISTOR		
	TP781	QMV5005-004K	4P PLUG ASSY		
	VR787	QVP0004-501Z	SEMI.V.RESISTOR		
	VR788	QVP0004-501Z	SEMI.V.RESISTOR		

RX-7000VBK

■ Electrical parts list (Front board)

Block No. 02

▲	Item	Parts number	Parts name	Remarks	Area
	BK400	E308586-001SM	FL HOLDER		
	BK401	E308566-002SM	FL HOLDER		
	BK499	E70225-003SSM	EARTH PLATE		
	C 400	QEK1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 401	QEK0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 402	QCZ0202-155Z	ML C CAP I/M	1.5MF	
	C 403	QEZ0227-10AZ	EDL.CAPA. I/M	PF	
	C 404	QER61HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 405	QDVB1EZ-223Y	C CAPACITOR		
	C 406	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
	C 407	QCZ0202-155Z	ML C CAP I/M	1.5MF	
	C 408	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C 409	QEK1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 410	QEK1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 412	QEK0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 413	QDYB1CM-103Y	C CAPACITOR		
	C 414	QDYB1CM-103Y	C CAPACITOR		
	C 477	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C 478	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C 479	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C 480	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C 492	QCBB1HK-101Y	C CAPACITOR	100PF 10% 50V	
	C 493	QCBB1HK-271Y	C CAPACITOR	270PF 10% 50V	
	C 494	QDVB1EZ-223Y	C CAPACITOR		
	C 495	QCFB1HZ-104Y	C CAPACITOR	.10MF +80:-20%	
	C 499	QEK0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	CN 61	QGB2510K1-08	CONNECTOR		
	CN 62	QGB2510K1-08	CONNECTOR		
	CN 63	QGB2510K1-05	CONNECTOR		
	CN 71	QGB2510K1-08	CONNECTOR		
	CN 72	QGB2510K1-08	CONNECTOR		
	CN 73	QGB2510K1-05	CONNECTOR		
	CN410	QGF1205F1-27	CONNECTOR		
	CN412	QGF1210G1-21	CONNECTOR		
	CN420	QJK018-100800	SKT WIRE	(LEFT)	
	CN422	QGA2001F1-14	14P PLUG ASSY		
	CN430	QGA2001F1-10	10P PLUG ASSY		
	CN432	QJK018-140804	SKT WIRE ASSY		
	CN450	QJK021-104000	C-B WIRE ASSY	(VIDEO)	
	CN451	QGB2510K1-09	CONNECTOR		
	CN881	QGD2501C1-03Z	SOCKET I.M		
	C1451	QER61HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1452	QER61HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1453	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C1454	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C1455	QER61HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1456	QER61HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1457	QER61HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1458	QER61HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1459	QER61HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1460	QER61HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1461	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1462	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1463	QDVB1EZ-223Y	C CAPACITOR		
	C1464	QDVB1EZ-223Y	C CAPACITOR		
	C1465	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1469	QCS11HJ-470	C CAPACITOR	47PF 5% 50V	
	C1470	QCS11HJ-470	C CAPACITOR	47PF 5% 50V	
	C1471	QFVJ1HJ-333Z	CAPACITOR	.033MF 5% 50V	
	C1472	QFVJ1HJ-333Z	CAPACITOR	.033MF 5% 50V	
	C1473	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C1474	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C1475	QFLC1HJ-332Z	M CAPACITOR	3300PF 5% 50V	
	C1476	QFLC1HJ-332Z	M CAPACITOR	3300PF 5% 50V	
	C1477	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C1478	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	

▲	Item	Parts number	Parts name	Remarks	Area
	C1479	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V	
	C1480	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V	
	C1481	QFVJ1HJ-103Z	TF CAPACITOR	.010MF 5% 50V	
	C1482	QFVJ1HJ-103Z	TF CAPACITOR	.010MF 5% 50V	
	C1483	QER61HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1484	QER61HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1487	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1488	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	D 400	1SR35-400A-T5	DIODE I/M		
	D 401	1SR35-400A-T5	DIODE I/M		
	D 402	1SR35-400A-T5	DIODE I/M		
	D 404	1SS133-T2	SI DIODE IM		
	D 405	1SS133-T2	SI DIODE IM		
	D 406	1SS133-T2	SI DIODE IM		
	D 407	1SS133-T2	SI DIODE IM		
	D 408	1SS133-T2	SI DIODE IM		
	D 409	1SS133-T2	SI DIODE IM		
	D 410	1SS133-T2	SI DIODE IM		
	D 411	1SS133-T2	SI DIODE IM		
	D 412	1SS133-T2	SI DIODE IM		
	D 413	1SS133-T2	SI DIODE IM		
	D 418	1SS133-T2	SI DIODE IM		
	D 430	SLR-342VC-T	LED I.M	(DVD)	
	D 431	SLR-342VC-T	LED I.M	(TV)	
	D 432	SLR-342VC-T	LED I.M	(VCR1)	
	D 435	SLR-342VC-T	LED I.M	(AM)	
	D 436	SLR-342VC-T	LED I.M	(FM)	
	D 437	SLR-342VC-T	LED I.M	(TAPE)	
	D 438	SLR-342VC-T	LED I.M	(PHONO)	
	D 439	SLR-342VC-T	LED I.M	(CD)	
	D 440	SLR-342VC-T	LED I.M	(SURROUND)	
	D 442	SLR-342VC-T	LED I.M	(OTO)	
	D 481	SLR-342VC-T	LED I.M	(STANDBY)	
	D 482	SLR-342VC-T	LED I.M	(SPK1)	
	D 483	SPR-325MVW/L-T	LED	(SPK2)	
	D 493	1SS133-T2	SI DIODE IM		
	D1400	QLF0071-001	FL TUBE		
	D1451	MTZJ6.8C-T2	Z DIODE I/M		
	D1452	MTZJ6.8C-T2	Z DIODE I/M		
	D1453	MTZJ5.1C-T2	ZENER DIODE		
	FS400	E3400-444	FELT SPACER		
	FS401	E3400-444	FELT SPACER		
	HL400	VYH7653-001	IC HOLDER		
	HL401	VYH7237-003	IC HOLDER		
	IC400	MN173222DG	IC		
	IC401	MN101C15FDE	IC		
	IC402	BU2092	IC		
	IC403	IC-PST9139-T	IC		
	IC404	GPIU271X	RM RECIVER		
	IC405	BU2092	IC		
	IC451	LC7522	IC		
	IC452	M5243AP12	IC		
	IC453	BA15218N	IC		
	JS400	QSW0502-001	SW		
	JS401	QSW0672-001	ROTARY ENCODER	(MULTI)	
	JS402	QSW0672-001	ROTARY ENCODER	(SOURCE)	
	Q 401	KRC107M-T	D.TR.I.M		
	Q 402	KRC111M-T	TR I/M		
	Q 403	KRC109M-T	D.TR.I.M.		
	Q 404	KRC107M-T	D.TR.I.M		
	Q 405	KRC104M-T	D.TR.I.M		
	Q 406	KRC107M-T	D.TR.I.M		
	Q 407	KRC107M-T	D.TR.I.M		

■ Electrical parts list (Front board)

Block No. 02

▲	Item	Parts number	Parts name	Remarks	Area
	Q 408	KRC107M-T	D.TR.I.M		
	Q 413	KRA107M-T	D.TR.I.M		
	Q 414	KRA107M-T	D.TR.I.M		
	Q 415	KRA107M-T	D.TR.I.M		
	Q 416	KRA107M-T	D.TR.I.M		
	Q 442	KRA107M-T	D.TR.I.M		
	Q 488	KRA107M-T	D.TR.I.M		
	R 400	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 401	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 402	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 403	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R 404	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 405	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 406	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 407	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 408	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 410	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 411	QRE141J-472Y	C RESISTOR	47K 5% 1/4W	
	R 412	QRE141J-181Y	C RESISTOR	180 5% 1/4W	
	R 414	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 415	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 416	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 417	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 418	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 423	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 424	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 425	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 426	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 427	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 430	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 431	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 433	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 434	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 435	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 436	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 437	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 438	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 439	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 440	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R 441	QRE141J-474Y	C RESISTOR	(PULLDOWN)	
	R 442	QRE141J-474Y	C RESISTOR	(PULLDOWN)	
	R 443	QRE141J-474Y	C RESISTOR	(PULLDOWN)	
	R 445	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 446	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 447	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 448	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 449	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 450	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 451	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 452	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 453	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 454	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 455	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 456	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 457	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 458	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 459	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 460	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 461	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 462	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 463	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 464	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 465	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	

▲	Item	Parts number	Parts name	Remarks	Area
	R 466	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 468	QRE141J-271Y	C RESISTOR	270 5% 1/4W	
	R 475	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 476	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 477	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 478	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 479	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 483	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 484	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R 485	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 487	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R 488	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R 490	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 495	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 496	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 497	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 498	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 499	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
▲	R 881	QRZ0209-3R3	RESISTOR	3.3 1/2W	
▲	R 882	QRZ0209-3R3	RESISTOR	3.3 1/2W	
▲	R 883	QRZ0209-3R3	RESISTOR	3.3 1/2W	
▲	R 884	QRZ0209-3R3	RESISTOR	3.3 1/2W	
	R1451	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1452	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1453	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1454	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1457	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1458	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1459	QRE141J-113Y	C RESISTOR	11K 5% 1/4W	
	R1460	QRE141J-113Y	C RESISTOR	11K 5% 1/4W	
	R1461	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1462	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1463	QRE141J-333Y	C RESISTOR	33K 5% 1/4W	
	R1464	QRE141J-333Y	C RESISTOR	33K 5% 1/4W	
	R1465	QRE141J-124Y	C RESISTOR	120K 5% 1/4W	
	R1466	QRE141J-124Y	C RESISTOR	120K 5% 1/4W	
▲	R1471	QRJ146J-561X	UNF C.RES 1/M	560 5% 1/4W	
▲	R1472	QRJ146J-561X	UNF C.RES 1/M	560 5% 1/4W	
▲	R1473	QRJ146J-681X	UNF C.RES 1/M	680 5% 1/4W	
	R1475	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R1476	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R1477	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R1478	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R1479	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R1480	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R1481	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1482	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1483	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1484	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1485	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1486	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
▲	R1487	QRZ9005-680X	F.RES 1/M	68 1/0W	
▲	R1488	QRZ9005-680X	F.RES 1/M	68 1/0W	
	S 400	QSW0683-001Z	PUSH SWITCH	(POWER)	
	S 401	QSW0683-001Z	PUSH SWITCH	(SPK1)	
	S 402	QSW0683-001Z	PUSH SWITCH	(SPK2)	
	S 407	QSW0683-001Z	PUSH SWITCH	(SURROUND)	
	S 408	QSW0683-001Z	PUSH SWITCH	(DIGITAL)	
	S 409	QSW0683-001Z	PUSH SWITCH	(DSP MODE)	
	S 410	QSW0683-001Z	PUSH SWITCH	(LOUDNESS)	
	S 411	QSW0683-001Z	PUSH SWITCH	(SEA MODE)	
	S 412	QSW0683-001Z	PUSH SWITCH	(SEA ADJ)	
	S 413	QSW0683-001Z	PUSH SWITCH	(FM MODE)	
	S 414	QSW0683-001Z	PUSH SWITCH	(ADJUST)	
	S 415	QSW0683-001Z	PUSH SWITCH	(S.SELECT)	
	S 416	QSW0683-001Z	PUSH SWITCH	(TUNING)	
	S 417	QSW0683-001Z	PUSH SWITCH	(PRESET)	
	S 418	QSW0683-001Z	PUSH SWITCH	(MEMORY)	
	S 419	QSW0683-001Z	PUSH SWITCH	(SETTING)	
	S 420	QSW0683-001Z	PUSH SWITCH	(OTO)	
	X 400	QAX0112-001Z	RESONATOR 1.M		
	X 401	QAX0246-001Z	RESONATOR 1.M		

■ Electrical parts list (Input board)

Block No. 03

▲	Item	Parts number	Parts name	Remarks	Area
C 201	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V		
C 202	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V		
C 203	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V		
C 204	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V		
C 207	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V		
C 208	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V		
C 209	QCF11HZ-103	C CAPACITOR	.010MF +80:-20%		
C 211	QETN1HM-107Z	E CAPACITOR	100MF 20% 50V		
C 212	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V		
C 213	QCF11HZ-103	C CAPACITOR	.010MF +80:-20%		
C 214	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V		
C 215	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V		
C 216	QDX31EM-473Z	C CAPACITOR			
C 217	QETN1AM-477Z	E CAPACITOR	470MF 20% 10V		
C 218	QCZ0202-155Z	ML C CAP I/M	1.5MF		
C 219	QDC31HJ-150Z	C CAPACITOR			
C 220	QDC31HJ-100Z	C CAPACITOR			
C 221	QDC31HJ-470Z	C CAPACITOR			
C 222	QDC31HJ-270Z	ACCAPA. I/M			
C 223	QDGB1HK-102Y	C CAPACITOR			
C 224	QCBB1HK-271Y	C CAPACITOR	270PF 10% 50V		
C 225	QCBB1HK-121Y	C CAPACITOR	120PF 10% 50V		
C 241	QDX31EM-473Z	C CAPACITOR			
C 242	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V		
C 244	QDX31EM-473Z	C CAPACITOR			
C 245	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V		
C 246	QDX31EM-473Z	C CAPACITOR			
C 247	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V		
C 249	QDX31EM-473Z	C CAPACITOR			
C 250	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V		
C 251	QDX31EM-473Z	C CAPACITOR			
C 252	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V		
C 254	QDX31EM-473Z	C CAPACITOR			
C 255	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V		
C 256	QCF11HZ-103	C CAPACITOR	.010MF +80:-20%		
C 257	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V		
C 258	QCF11HZ-103	C CAPACITOR	.010MF +80:-20%		
C 259	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V		
C 260	QDX31EM-473Z	C CAPACITOR			
C 261	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V		
C 268	QCS11HJ-470	C CAPACITOR	47PF 5% 50V		
C 269	QCS11HJ-470	C CAPACITOR	47PF 5% 50V		
C 270	QCS11HJ-101	C CAPACITOR	100PF 5% 50V		
C 271	QCS11HJ-101	C CAPACITOR	100PF 5% 50V		
C 277	QCS11HJ-470	C CAPACITOR	47PF 5% 50V		
C 301	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V		
C 302	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V		
C 303	QCS11HJ-101	C CAPACITOR	100PF 5% 50V		
C 304	QCS11HJ-101	C CAPACITOR	100PF 5% 50V		
C 305	QFLC1HJ-182Z	M CAPACITOR	1800PF 5% 50V		
C 306	QFLC1HJ-182Z	M CAPACITOR	1800PF 5% 50V		
C 307	QFLC1HJ-682Z	M CAPACITOR	6800PF 5% 50V		
C 308	QFLC1HJ-682Z	M CAPACITOR	6800PF 5% 50V		
C 309	QCS11HJ-101	C CAPACITOR	100PF 5% 50V		
C 310	QCS11HJ-101	C CAPACITOR	100PF 5% 50V		
C 311	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V		
C 312	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V		
C 313	QETN1CM-107Z	E CAPACITOR	100MF 20% 16V		
C 314	QETN1CM-107Z	E CAPACITOR	100MF 20% 16V		
C 315	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V		
C 316	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V		
C 317	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V		
C 318	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V		

▲	Item	Parts number	Parts name	Remarks	Area
C 319	QCF31HZ-223Z	C CAPACITOR	.022MF +80:-20%		
C 320	QCF31HZ-223Z	C CAPACITOR	.022MF +80:-20%		
C 321	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V		
C 322	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V		
C 323	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V		
C 324	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V		
C 325	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V		
C 326	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V		
C 327	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V		
C 328	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V		
C 329	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V		
C 330	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V		
C 331	QCS11HJ-471	C CAPACITOR	470PF 5% 50V		
C 332	QCS31HJ-391Z	C CAPACITOR	390PF 5% 50V		
C 333	QCS31HJ-391Z	C CAPACITOR	390PF 5% 50V		
C 334	QCS31HJ-391Z	C CAPACITOR	390PF 5% 50V		
C 337	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V		
C 338	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V		
C 339	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V		
C 340	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V		
C 341	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V		
C 342	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V		
C 343	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V		
C 344	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V		
C 345	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V		
C 346	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V		
C 347	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V		
C 348	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V		
C 349	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V		
C 350	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V		
C 351	QCF31HZ-223Z	C CAPACITOR	.022MF +80:-20%		
C 352	QCF31HZ-223Z	C CAPACITOR	.022MF +80:-20%		
C 353	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V		
C 354	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V		
C 358	QCBB1HK-561Y	C CAPACITOR	560PF 10% 50V		
C 361	QCF31HZ-223Z	C CAPACITOR	.022MF +80:-20%		
C 362	QCF31HZ-223Z	C CAPACITOR	.022MF +80:-20%		
C 363	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V		
C 364	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V		
C 369	QDVB1EZ-223Y	C CAPACITOR			
C 370	QCBB1HK-561Y	C CAPACITOR	560PF 10% 50V		
C 371	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V		
C 372	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V		
C 373	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V		
C 374	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V		
C 377	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V		
C 378	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V		
C 379	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V		
C 380	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V		
C 381	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V		
C 382	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V		
C 383	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V		
C 384	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V		
CN200	QGB2510K1-05	CONNECTOR			
CN202	QGA2001F1-10	10P-PLUG ASSY			
CN204	QGB1214K1-14S	CONNECTOR			
CN205	QGB1214J1-14S	CONNECTOR			
CN240	QGB2510K1-04	CONNECTOR			
CN242	QGB1214K1-14S	CONNECTOR			
CN243	QGB1214J1-14S	CONNECTOR			
CN244	QGA2501F1-04	CONNECTOR			
CN254	QGB2510K1-05	CONNECTOR			
CN311	QGB2510K1-17	CONNECTOR			

■ Electrical parts list (Input board)

Block No. 03

▲	Item	Parts number	Parts name	Remarks	Area
	CN312	QGB2510K1-09	CONNECTOR		
	CN313	QGB2510K1-12	CONNECTOR		
	C1250	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C1251	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C1252	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	D 200	1SS133-T2	SI DIODE 1M		
	D 201	1SS133-T2	SI DIODE 1M		
	D1250	MTZJ6.2C-T2	Z DIODE 1/M		
	D1251	MTZJ6.2C-T2	Z DIODE 1/M		
	D1252	MTZJ6.2C-T2	Z DIODE 1/M		
	IC201	BA7625	IC		
	IC202	NJM2285D	IC		
	IC203	MB90088PF-131	IC		
	IC241	BA7626	IC		
	IC242	BA7625	IC		
	IC301	NJM4580DD	IC		
	IC302	NJM4580L	IC		
	IC303	NJM4580L	IC		
	IC304	TC9164AN	IC		
	IC305	NJM4580L	IC		
	IC311	TC9163AN	IC		
	IC391	BA15218N	IC		
	J 201	QNN0078-001	PIN JACK		
	J 202	QNN0067-001	PIN JACK		
	J 203	QNN0017-002	PIN JACK		
	J 241	QND0002-001	S-CONNECTOR		
	J 242	QND0028-001	DIN CONNECTOR		
	J 243	QND0024-001	S JACK		
	J 301	QNN0056-001	PIN JACK		
	J 302	QNN0056-001	PIN JACK		
	J 303	QNN0185-001	PIN JACK		
	J 311	QNN0056-001	PIN JACK		
	J 312	QNN0056-001	PIN JACK		
	J 314	QNN0107-001	PIN JACK		
	J1250	QNS0077-001	3.5 JACK		
	J1251	QNS0083-001	3.5 JACK		
	J1252	QNS0001-001	3.5 JACK		
	J1253	QNS0001-001	3.5 JACK		
	J1254	QNS0001-001	3.5 JACK		
	L 200	QQL231K-220Y	INDUCTOR		
	Q 200	KTA1267/YG/-T	TRANSISTOR		
	Q 204	KTA1267/YG/-T	TRANSISTOR		
	Q 205	KTA1267/YG/-T	TRANSISTOR		
	Q 206	KTA1267/YG/-T	TRANSISTOR		
	Q 240	KTA1267/YG/-T	TRANSISTOR		
	Q 241	KTA1267/YG/-T	TRANSISTOR		
	Q 301	2SC2878/AB/-T	TRANSISTOR		
	Q 302	2SC2878/AB/-T	TRANSISTOR		
	R 200	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 201	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 202	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 203	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 206	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 207	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R 208	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R 209	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 210	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R 213	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 214	QRE141J-151Y	C RESISTOR	150 5% 1/4W	
	R 219	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 220	QRE141J-121Y	C RESISTOR	120 5% 1/4W	
	R 221	QRE141J-151Y	C RESISTOR	150 5% 1/4W	
	R 222	QRE141J-561Y	C RESISTOR	560 5% 1/4W	
	R 223	QRE141J-561Y	C RESISTOR	560 5% 1/4W	
	R 224	QRE141J-561Y	C RESISTOR	560 5% 1/4W	
▲	R 225	QRJ146J-3R3X	UNF C.RES 1/M	3.3 5% 1/4W	
	R 240	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 241	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 242	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 243	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 244	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 245	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 246	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 247	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 248	QRE141J-151Y	C RESISTOR	150 5% 1/4W	
	R 249	QRE141J-121Y	C RESISTOR	120 5% 1/4W	
	R 256	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 257	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 258	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 259	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 264	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 265	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 266	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 267	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 268	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 269	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 271	QRJ146J-6R8X	UNF C.RES 1/M	6.8 5% 1/4W	
	R 301	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 302	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 303	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 304	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 305	QRE141J-621Y	C RESISTOR	620 5% 1/4W	
	R 306	QRE141J-621Y	C RESISTOR	620 5% 1/4W	
	R 307	QRE141J-393Y	C RESISTOR	39K 5% 1/4W	
	R 308	QRE141J-393Y	C RESISTOR	39K 5% 1/4W	
	R 309	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R 310	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R 311	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 312	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
▲	R 313	QRJ146J-331X	UNF C.RES 1/M	330 5% 1/4W	
▲	R 314	QRJ146J-331X	UNF C.RES 1/M	330 5% 1/4W	
▲	R 315	QRZ9005-680X	F.RES. 1.M	68 1/0W	
▲	R 316	QRZ9005-680X	F.RES. 1.M	68 1/0W	
	R 325	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 326	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 327	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 328	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 329	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 330	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 331	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 332	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 333	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 334	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 335	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 336	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 337	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 338	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 339	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 340	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 341	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 342	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 343	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 344	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 345	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 346	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 347	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	

RX-7000VBK

■ Electrical parts list (Input board)

Block No. 03

△	Item	Parts number	Parts name	Remarks	Area
	R 348	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 349	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 350	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 351	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 352	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
△	R 353	QRZ9005-680X	F.RES. I.M	68 1/0W	
△	R 354	QRZ9005-680X	F.RES. I.M	68 1/0W	
	R 355	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 356	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 357	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 358	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 359	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 360	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 361	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 362	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 381	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 382	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 383	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 384	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 385	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 386	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 387	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 388	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1250	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R1251	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R1252	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R1253	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R1254	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R1255	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R1256	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R1257	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	SP203	VYH7653-005	IC HOLDER		
	X 200	QAX0260-001Z	CRYSTAL		

■ Electrical parts list (AC supply board)

Block No. 04

▲	Item	Parts number	Parts name	Remarks	Area	▲	Item	Parts number	Parts name	Remarks	Area
▲	C 1	QCZ9019-472	C CAPACITOR	4700PF			C1806	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C 51	QFN32AK-472Z	M CAPACITOR	4700PF 10% 100V			C1807	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C 52	QETN1EM-108Z	E CAPACITOR	1000MF 20% 25V			C1808	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C 54	QETN1CM-477Z	E CAPACITOR	470MF 20% 18V			C1809	QCS31HJ-5R0Z	C CAPACITOR	5.0PF 5% 50V	
	C 55	QCF31HZ-472Z	C CAPACITOR	4700PF +80:-20%			C1810	QCS31HJ-5R0Z	C CAPACITOR	5.0PF 5% 50V	
	C 56	QCZ0202-155Z	ML C CAP I/M	VER.J			C1811	QCS32HJ-330Z	C CAPACITOR	33PF 5% 500V	
	C 61	QFN32AJ-104Z	M CAPACITOR	.10MF 5% 100V			C1812	QCS32HJ-330Z	C CAPACITOR	33PF 5% 500V	
	C 62	QFN32AJ-104Z	M CAPACITOR	.10MF 5% 100V			C1813	QFLC1HJ-103Z	M CAPACITOR	.010MF 5% 50V	
	C 63	QFN32AJ-104Z	M CAPACITOR	.10MF 5% 100V			C1814	QFLC1HJ-103Z	M CAPACITOR	.010MF 5% 50V	
	C 65	QETM1VM-338	E CAPACITOR	3300MF 20% 35V			C1815	QEKC1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 66	QETM1VM-228	E CAPACITOR	2200MF 20% 35V			C1816	QEKC1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 67	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V			C1817	QETN1HM-476Z	E CAPACITOR	47MF 20% 50V	
	C 68	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V			C1818	QETN1HM-476Z	E CAPACITOR	47MF 20% 50V	
	C 69	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V			C1841	QETN2AM-476Z	E CAPACITOR	47MF 20% 100V	
	C 70	QETN1HM-227Z	E CAPACITOR	220MF 20% 50V			C1842	QETN2AM-476Z	E CAPACITOR	47MF 20% 100V	
	C 71	QETN1JM-227Z	E CAPACITOR	220MF 20% 63V			C1843	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C 72	QETN1HM-228Z	E CAPACITOR	22MF 20% 50V			C1851	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V	
	C 73	QETN1HM-228Z	E CAPACITOR	22MF 20% 50V			C1852	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V	
	C 74	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V			C1853	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V	
	C 705	QCS11HJ-101	C CAPACITOR	100PF 5% 50V			C1854	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V	
	C 706	QCS11HJ-101	C CAPACITOR	100PF 5% 50V			C1861	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 711	QFLC1HJ-152Z	M CAPACITOR	1500PF 5% 50V			C1862	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 712	QFLC1HJ-152Z	M CAPACITOR	1500PF 5% 50V			C1863	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 713	QCS11HJ-680	C CAPACITOR	68PF 5% 50V			C1864	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 714	QCS11HJ-680	C CAPACITOR	68PF 5% 50V			C1891	QCF31HZ-223Z	C CAPACITOR	.022MF +80:-20%	
	C 715	QCS11HJ-680	C CAPACITOR	68PF 5% 50V			C1892	QCF31HZ-223Z	C CAPACITOR	.022MF +80:-20%	
	C 716	QCS11HJ-680	C CAPACITOR	68PF 5% 50V			▲	D 51	1SR35-400A-T5	DIODE I/M	
	C 717	QCS32HJ-220Z	C CAPACITOR	22PF 5% 500V			▲	D 52	1SR35-400A-T5	DIODE I/M	
	C 718	QCS32HJ-220Z	C CAPACITOR	22PF 5% 500V			▲	D 53	1SR35-400A-T5	DIODE I/M	
	CN 51	QGB2510J1-08	CONNECTOR				▲	D 54	1SR35-400A-T5	DIODE I/M	
	CN 52	QGB2510J1-08	CONNECTOR				D 56	MTZJ6.2A-T2	Z.DIODE IDM		
	CN 53	QGB2510J1-05	CONNECTOR				D 57	1SS133-T2	SI DIODE IM		
	CN 55	QGD2501C1-03Z	SOCKET I.M				▲	D 61	10E2-FD	DIODE	
	CN 56	QGD2501C1-04Z	SOCKET I.M				▲	D 62	1SR35-400A-T5	DIODE I/M	
	CN402	QGF1205C1-21	CONNECTOR				▲	D 63	10E2-FD	DIODE	
	CN701	QJP002-021401	SHI CR C-B WIRE				▲	D 64	1SR35-400A-T5	DIODE I/M	
	CN702	QJP001-031401	SHI CR C-B WIRE				D 65	1SS133-T2	SI DIODE IM		
	CN703	WJK0034-001A	SKT WIRE ASSY	(WITH CN803)			D 66	1SS133-T2	SI DIODE IM		
	CN705	QGB2510K1-12	CONNECTOR				▲	D 71	1SR35-400A-T5	DIODE I/M	
	CN811	QGA3901F2-03	CONNECTOR				▲	D 72	1SR35-400A-T5	DIODE I/M	
	CN953	QJL005-062801	SIN CR B-B WIRE				▲	D 73	1SR35-400A-T5	DIODE I/M	
	C1701	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V			D 74	MTZJ33C-T2	Z DIODE I M		
	C1702	QCS11HJ-101	C CAPACITOR	100PF 5% 50V			D 75	MTZJ6.2C-T2	Z DIODE I/M		
	C1703	QCS11HJ-101	C CAPACITOR	100PF 5% 50V			D 701	1SS133-T2	SI DIODE IM		
	C1704	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V			D 702	1SS133-T2	SI DIODE IM		
	C1705	QCS31HJ-5R0Z	C CAPACITOR	5.0PF 5% 50V			D 703	1SS133-T2	SI DIODE IM		
	C1711	QCS32HJ-330Z	C CAPACITOR	33PF 5% 500V			D 704	1SS133-T2	SI DIODE IM		
	C1712	QFLC1HJ-103Z	M CAPACITOR	.010MF 5% 50V			D 981	1SS133-T2	SI DIODE IM		
	C1713	QETN1HM-225Z	E CAPACITOR	2.2MF 20% 50V			D 982	1SS133-T2	SI DIODE IM		
	C1715	QETN1HM-476Z	E CAPACITOR	47MF 20% 50V			D1701	1SS133-T2	SI DIODE IM		
	C1741	QETN2AM-476Z	E CAPACITOR	47MF 20% 100V			D1702	MTZJ18C-T2	Z.DIODE I.M		
	C1742	QETN2AM-476Z	E CAPACITOR	47MF 20% 100V			D1771	1SS133-T2	SI DIODE IM		
	C1743	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V			D1772	1SS133-T2	SI DIODE IM		
	C1751	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V			D1791	1SS133-T2	SI DIODE IM		
	C1752	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V			D1801	1SS133-T2	SI DIODE IM		
	C1761	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V			D1802	1SS133-T2	SI DIODE IM		
	C1762	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V			D1805	MTZJ18C-T2	Z.DIODE I.M		
	C1791	QCF31HZ-223Z	C CAPACITOR	.022MF +80:-20%			D1871	1SS133-T2	SI DIODE IM		
	C1801	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V			D1872	1SS133-T2	SI DIODE IM		
	C1802	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V			D1873	1SS133-T2	SI DIODE IM		
	C1803	QCS11HJ-101	C CAPACITOR	100PF 5% 50V			D1874	1SS133-T2	SI DIODE IM		
	C1804	QCS11HJ-101	C CAPACITOR	100PF 5% 50V			D1891	1SS133-T2	SI DIODE IM		
	C1805	QCS11HJ-101	C CAPACITOR	100PF 5% 50V			D1892	1SS133-T2	SI DIODE IM		

■ Electrical parts list (AC supply board)

Block No. 04

△	Item	Parts number	Parts name	Remarks	Area
	EP 1	E409182-001SM	GRAND TERMINAL		
	EP 2	QNZ0136-001Z	EARTH PLATE		
	EP 51	QNZ0136-001Z	EARTH PLATE		
	FC 1	QNG0020-001Z	FUSE CLIP	F001	
	FC 2	QNG0020-001Z	FUSE CLIP	F001	
	FC 61	QNG0020-001Z	FUSE CLIP	F061	
	FC 62	QNG0020-001Z	FUSE CLIP	F061	
	FC 63	QNG0020-001Z	FUSE CLIP	F062	
	FC 64	QNG0020-001Z	FUSE CLIP	F062	
	FW 51	QUM137-10DGZ4	PARA RIBON WIRE		
	FW901	QUM133-08DGZ4	PARA RIBON WIRE		
	FW962	QUM133-15DGZ4	PARA RIBON WIRE		
	J 91	QNS0023-001	JACK		
	L1761	QQLZ005-R45	INDUCTOR		
	L1861	QQLZ005-R45	INDUCTOR		
	L1862	QQLZ005-R45	INDUCTOR		
△	Q 52	2SC2235/OY/-T	TRANSISTOR		
	Q 53	KRC105M-T	D.TR.I.M.		
	Q 61	KRC107M-T	D.TR.I.M.		
	Q 71	2SB1357/EF/-T	TRANSISTOR		
	Q 72	KRC102M-T	D.TRANSISTOR		
	Q 73	KRA104M-T	D.TRANSISTOR		
	Q 74	2SC2240/GL/-T	TRANSISTOR		
	Q 701	2SC2240-BL/AB/T	TRANSISTOR		
	Q 702	2SC2240-BL/AB/T	TRANSISTOR		
	Q 703	2SC2240-BL/AB/T	TRANSISTOR		
	Q 704	2SC2240-BL/AB/T	TRANSISTOR		
	Q 705	2SA1038S/SE/-T	TRANSISTOR		
	Q 706	2SA1038S/SE/-T	TRANSISTOR		
	Q 707	2SA933AS/RS/-T	TRANSISTOR		
	Q 708	2SA933AS/RS/-T	TRANSISTOR		
	Q 709	2SA1038S/SE/-T	TRANSISTOR		
	Q 710	2SA1038S/SE/-T	TRANSISTOR		
	Q 711	2SC2389S/SE/-T	TRANSISTOR		
	Q 712	2SC2389S/SE/-T	TRANSISTOR		
	Q1701	2SC2240-BL/AB/T	TRANSISTOR		
	Q1702	2SC2240-BL/AB/T	TRANSISTOR		
	Q1703	2SA1038S/S/-T	TRANSISTOR		
	Q1731	2SD637/QR/	TRANSISTOR		
	Q1771	2SC2389S/SE/-T	TRANSISTOR		
	Q1772	2SA1038S/SE/-T	TRANSISTOR		
	Q1791	2SC2389S/SE/-T	TRANSISTOR		
	Q1801	2SC2240-BL/AB/T	TRANSISTOR		
	Q1802	2SC2240-BL/AB/T	TRANSISTOR		
	Q1803	2SC2240-BL/AB/T	TRANSISTOR		
	Q1804	2SC2240-BL/AB/T	TRANSISTOR		
	Q1805	2SA1038S/S/-T	TRANSISTOR		
	Q1806	2SA1038S/S/-T	TRANSISTOR		
	Q1831	2SD637/QR/	TRANSISTOR		
	Q1832	2SD637/QR/	TRANSISTOR		
	Q1871	2SC2389S/SE/-T	TRANSISTOR		
	Q1872	2SC2389S/SE/-T	TRANSISTOR		
	Q1873	2SA1038S/SE/-T	TRANSISTOR		
	Q1874	2SA1038S/SE/-T	TRANSISTOR		
	Q1891	2SC2389S/SE/-T	TRANSISTOR		
	Q1892	2SC2389S/SE/-T	TRANSISTOR		
△	R 1	QRZ9044-335	COMP.RESISTOR	3.3M 1/0W	
△	R 53	QRJ146J-3R9X	UNF C.RES I/M	3.9 5% 1/4W	
	R 54	QRE141J-821Y	C RESISTOR	820 5% 1/4W	
△	R 55	QRT022J-1R0	MF RESISTOR	1.0 5% 1/2W	
△	R 61	QRT012J-R22	UNF.MF.RES.	5% 1/1W	
△	R 62	QRT012J-R22	UNF.MF.RES.	5% 1/1W	
△	R 66	QRJ146J-2R2X	UNF C.RES I/M	2.2 5% 1/4W	

△	Item	Parts number	Parts name	Remarks	Area
	R 67	QRJ146J-120X	UNF C.RES I/M	12 5% 1/4W	
	R 68	QRE141J-562Y	C RESISTOR	5.6K 5% 1/4W	
	R 69	QRE141J-822Y	C RESISTOR	8.2K 5% 1/4W	
	R 70	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
△	R 72	QRJ146J-332X	UNF C.RES I/M	3.3K 5% 1/4W	
	R 73	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 74	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
△	R 91	QRL022J-471	UNF OMF.RES.	470 5% 1/2W	
△	R 92	QRL022J-471	UNF OMF.RES.	470 5% 1/2W	
	R 705	QRE141J-202Y	C RESISTOR	2.0K 5% 1/4W	
	R 706	QRE141J-202Y	C RESISTOR	2.0K 5% 1/4W	
	R 707	QRE141J-202Y	C RESISTOR	2.0K 5% 1/4W	
	R 708	QRE141J-202Y	C RESISTOR	2.0K 5% 1/4W	
	R 709	QRE141J-912Y	C RESISTOR	9.1K 5% 1/4W	
	R 710	QRE141J-912Y	C RESISTOR	9.1K 5% 1/4W	
△	R 717	QRJ146J-562X	UNF C.RES I/M	5.6K 5% 1/4W	
△	R 718	QRJ146J-562X	UNF C.RES I/M	5.6K 5% 1/4W	
△	R 719	QRK126J-103X	UNF.C.RES. I/M	10K 5% 1/2W	
△	R 720	QRK126J-103X	UNF.C.RES. I/M	10K 5% 1/2W	
△	R 721	QRJ146J-151X	UNF C.RES I/M	150 5% 1/4W	
△	R 722	QRJ146J-151X	UNF C.RES I/M	150 5% 1/4W	
	R 723	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R 724	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R 725	QRE141J-152Y	C RESISTOR	1.5K 5% 1/4W	
	R 726	QRE141J-152Y	C RESISTOR	1.5K 5% 1/4W	
	R 727	QRE141J-333Y	C RESISTOR	33K 5% 1/4W	
	R 728	QRE141J-333Y	C RESISTOR	33K 5% 1/4W	
	R 729	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R 730	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R 731	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R 732	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R 733	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 734	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
△	R 981	QRJ146J-101X	UNF C.RES I/M	100 5% 1/4W	
△	R 982	QRJ146J-101X	UNF C.RES I/M	100 5% 1/4W	
△	RY 1	QSK0096-001	RELAY		
△	RY 61	QSK0082-001	RELAY	VER.J	
△	RY 62	QSK0088-001	RELAY	VER.C	
△	RY 63	QSK0088-001	RELAY	VER.C	
	RY981	QSK0109-001	RELAY		
	RY982	QSK0109-001	RELAY		
	R1701	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R1702	QRE141J-124Y	C RESISTOR	120K 5% 1/4W	
	R1703	QRE141J-202Y	C RESISTOR	2.0K 5% 1/4W	
	R1705	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
	R1711	QRE141J-621Y	C RESISTOR	620 5% 1/4W	
	R1712	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
△	R1721	QRJ146J-221X	UNF C.RES I/M	220 5% 1/4W	
	R1722	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R1723	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R1724	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R1725	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R1731	QRE141J-751Y	C RESISTOR	750 5% 1/4W	
	R1732	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
△	R1742	QRJ146J-221X	UNF C.RES I/M	220 5% 1/4W	
△	R1743	QRL022J-562	UNF.OMF.RES.	5.6K 5% 1/2W	
△	R1751	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
△	R1752	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
△	R1753	QRZ0196-R22	EMIT.RESISTOR	1/1W	
△	R1761	QRJ125J-330	UNF.C.RES.	33 5% 1/2W	
△	R1762	QRL022J-100	UNF.OMF.RES.	10 5% 1/2W	
	R1771	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R1772	QRE141J-391Y	C RESISTOR	390 5% 1/4W	

■ Electrical parts list (AC supply board)

Block No. 04

△	Item	Parts number	Parts name	Remarks	Area
	R1773	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R1774	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R1791	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R1792	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R1793	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
	R1794	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1801	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R1802	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R1803	QRE141J-124Y	C RESISTOR	120K 5% 1/4W	
	R1804	QRE141J-124Y	C RESISTOR	120K 5% 1/4W	
	R1805	QRE141J-202Y	C RESISTOR	2.0K 5% 1/4W	
	R1806	QRE141J-202Y	C RESISTOR	2.0K 5% 1/4W	
	R1809	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
	R1810	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
	R1811	QRE141J-621Y	C RESISTOR	620 5% 1/4W	
	R1812	QRE141J-621Y	C RESISTOR	620 5% 1/4W	
	R1813	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1814	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
△	R1821	QRJ146J-221X	UNF.C.RES 1/M	220 5% 1/4W	
△	R1822	QRJ146J-221X	UNF.C.RES 1/M	220 5% 1/4W	
	R1823	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R1824	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R1825	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R1826	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R1827	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R1828	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R1829	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R1830	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R1831	QRE141J-751Y	C RESISTOR	750 5% 1/4W	
	R1832	QRE141J-751Y	C RESISTOR	750 5% 1/4W	
	R1833	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R1834	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
△	R1842	QRJ146J-221X	UNF.C.RES 1/M	220 5% 1/4W	
△	R1843	QRL022J-562	UNF.OMF.RES.	5.6K 5% 1/2W	
△	R1851	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
△	R1852	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
△	R1853	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
△	R1854	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
△	R1855	QRZ0196-R22	EMIT.RESISTOR	1/1W	
△	R1856	QRZ0196-R22	EMIT.RESISTOR	1/1W	
△	R1861	QRJ125J-330	UNF.C.RES.	33 5% 1/2W	
△	R1862	QRJ125J-330	UNF.C.RES.	33 5% 1/2W	
△	R1863	QRL022J-100	UNF.OMF.RES.	10 5% 1/2W	
△	R1864	QRL022J-100	UNF.OMF.RES.	10 5% 1/2W	
	R1871	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R1872	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R1873	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R1874	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R1875	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R1876	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R1877	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R1878	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R1891	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R1892	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R1893	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R1894	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R1895	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
	R1896	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
	R1897	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1898	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	ST981	QNB0013-001	SPK TERMINAL		
△	T 2	QQT0281-001	POWER TRANSF		
	TA 1	QNZ0079-001Z	TAB I.M		

△	Item	Parts number	Parts name	Remarks	Area
	TA 2	QNZ0079-001Z	TAB I.M		
△	TH 71	QAD0095-4R7Z	POSISTOR I.M		
△	TH731	QAD0012-202	THERMISTOR		
△	TH831	QAD0012-202	THERMISTOR		
△	TH832	QAD0012-202	THERMISTOR		

■ Electrical parts list (AC-3 board)

Block No. 05

Item	Parts number	Parts name	Remarks	Area
C 601	NCB31HK-102X	C CAPACITOR		
C 602	NCB31HK-102X	C CAPACITOR		
C 603	NEA70JM-476X	E CAPACITOR		
C 604	NEA70JM-476X	E CAPACITOR		
C 605	NCB31CK-104X	C CAPACITOR		
C 606	NCB31CK-104X	C CAPACITOR		
C 607	NEA71CM-476X	E CAPACITOR		
C 608	NCF31CZ-104X	C CAPACITOR		
C 609	NCB31CK-104X	C CAPACITOR		
C 610	NEA70JM-476X	E CAPACITOR		
C 611	NEA70JM-226X	E CAPACITOR		
C 612	NCB31CK-103X	C CAPACITOR		
C 621	NEA71HM-105X	E CAPACITOR		
C 622	NCB31HK-101X	C CAPACITOR		
C 623	NCB31CK-104X	C CAPACITOR		
C 624	NCB31CK-104X	C CAPACITOR		
C 625	NCB31CK-104X	C CAPACITOR		
C 628	NCB31CK-103X	C CAPACITOR		
C 631	NEA70GM-107X	E CAPACITOR		
C 632	NCB31CK-103X	C CAPACITOR		
C 633	NCB31CK-104X	C CAPACITOR		
C 634	NCB31CK-104X	C CAPACITOR		
C 635	NCB31CK-104X	C CAPACITOR		
C 636	NCB31CK-104X	C CAPACITOR		
C 637	NCB31CK-104X	C CAPACITOR		
C 638	NEA70JM-476X	E CAPACITOR		
C 639	NCB31CK-103X	C CAPACITOR		
C 641	NEA70JM-107X	E CAPACITOR		
C 642	NCB31CK-103X	C CAPACITOR		
C 643	NCB31AK-474X	C CAPACITOR		
C 644	NCB31CK-103X	C CAPACITOR		
C 645	NCS31HJ-101X	C CAPACITOR		
C 646	NCB31CK-103X	C CAPACITOR		
C 647	NCS31HJ-220X	C CAPACITOR		
C 648	NCS31HJ-180X	C CAPACITOR		
C 649	NCS31HJ-121X	C CAPACITOR		
C 653	NCB31CK-104X	C CAPACITOR		
C 654	NEA70GM-107X	E CAPACITOR		
C 661	NCB31CK-104X	C CAPACITOR		
C 671	NCB31CK-103X	C CAPACITOR		
C 672	NEA70GM-107X	E CAPACITOR		
C 673	NCB31CK-103X	C CAPACITOR		
C 677	NCB31HK-101X	C CAPACITOR		
C 679	NCB31HK-101X	C CAPACITOR		
C 681	NCB31CK-103X	C CAPACITOR		
C 682	NCB31CK-103X	C CAPACITOR		
C 683	NCB31CK-103X	C CAPACITOR		
C 684	NEA70JM-107X	E CAPACITOR		
C 685	NEA71CM-476X	E CAPACITOR		
C 686	NEA71CM-476X	E CAPACITOR		
C 687	NCB31CK-103X	C CAPACITOR		
C 688	NEA70JM-107X	E CAPACITOR		
C 689	NCB31CK-103X	C CAPACITOR		
C 690	NEA70JM-107X	E CAPACITOR		
C 691	NEA71HM-105X	E CAPACITOR		
C 692	NEA71HM-105X	E CAPACITOR		
C 693	NCB31CK-104X	C CAPACITOR		
C 694	NCB31CK-104X	C CAPACITOR		
C 695	NEA71HM-105X	E CAPACITOR		
C 696	NEA71HM-105X	E CAPACITOR		
C 697	NEA71HM-105X	E CAPACITOR		
C 698	NEA71HM-105X	E CAPACITOR		
CN681	QGB1214K3-18W	CONNECTOR		

Item	Parts number	Parts name	Remarks	Area
CN687	QGB1214K3-12W	CONNECTOR		
C2500	NEA71CM-226X	E CAPACITOR		
C2501	NCB31AK-474X	C CAPACITOR		
C2506	NEA71EM-475X	E CAPACITOR		
C2504	NEA71EM-475X	E CAPACITOR		
C2505	NCS31HJ-560X	C CAPACITOR		
C2506	NCS31HJ-560X	C CAPACITOR		
C2507	NCS31HJ-560X	C CAPACITOR		
C2508	NCS31HJ-560X	C CAPACITOR		
C2509	NCF31CZ-104X	C CAPACITOR		
C2510	NCF31CZ-104X	C CAPACITOR		
C2511	NCB31AK-474X	C CAPACITOR		
C2512	NCB31AK-474X	C CAPACITOR		
C2513	NCB31CK-183X	C CAPACITOR		
C2514	NCB31CK-183X	C CAPACITOR		
C2515	NCB31HK-182X	C CAPACITOR		
C2516	NCB31HK-182X	C CAPACITOR		
C2517	NCB31HK-562X	C CAPACITOR		
C2518	NCB31HK-562X	C CAPACITOR		
C2519	NCF31CZ-104X	C CAPACITOR		
C2520	NCF31CZ-104X	C CAPACITOR		
C2521	NCB31CK-103X	C CAPACITOR		
C2522	NCB31CK-103X	C CAPACITOR		
C2523	NCB31HK-272X	C CAPACITOR		
C2524	NCB31HK-272X	C CAPACITOR		
C2525	NCB31HK-392X	C CAPACITOR		
C2526	NCB31HK-392X	C CAPACITOR		
C2527	NEA71HM-225X	E CAPACITOR		
C2528	NEA71HM-225X	E CAPACITOR		
C2529	NCF31CZ-104X	C CAPACITOR		
C2530	NCF31CZ-104X	C CAPACITOR		
C2531	NCS31HJ-560X	C CAPACITOR		
C2532	NCS31HJ-560X	C CAPACITOR		
C2533	NEA71EM-475X	E CAPACITOR		
C2534	NEA71EM-475X	E CAPACITOR		
C2539	NCF31CZ-104X	C CAPACITOR		
C2540	NCF31CZ-104X	C CAPACITOR		
C2541	NCS31HJ-560X	C CAPACITOR		
C2542	NCS31HJ-560X	C CAPACITOR		
C2543	NEA71EM-475X	E CAPACITOR		
C2544	NEA71EM-475X	E CAPACITOR		
C2548	NCF31CZ-104X	C CAPACITOR		
C2550	NCF31CZ-104X	C CAPACITOR		
C2551	NCS31HJ-560X	C CAPACITOR		
C2552	NCS31HJ-560X	C CAPACITOR		
C2553	NCB31HK-562X	C CAPACITOR		
C2554	NCB31HK-562X	C CAPACITOR		
C2555	NCF31CZ-104X	C CAPACITOR		
C2556	NCF31CZ-104X	C CAPACITOR		
C2559	NCF31CZ-104X	C CAPACITOR		
C2560	NCF31CZ-104X	C CAPACITOR		
C2561	NEA71HM-105X	E CAPACITOR		
C2562	NEA71HM-105X	E CAPACITOR		
C2563	NCS31HJ-220X	C CAPACITOR		
C2564	NCS31HJ-220X	C CAPACITOR		
C2569	NCF31CZ-104X	C CAPACITOR		
C2570	NCF31CZ-104X	C CAPACITOR		
C2571	NCB31CK-103X	C CAPACITOR		
C2572	NCB31CK-103X	C CAPACITOR		
C2573	NCB31HK-272X	C CAPACITOR		
C2574	NCB31HK-272X	C CAPACITOR		
C2575	NCB31HK-392X	C CAPACITOR		
C2576	NCB31HK-392X	C CAPACITOR		

■ Electrical parts list (AC-3 board)

Block No. 05

△	Item	Parts number	Parts name	Remarks	Area
	C2577	NEA71HM-225X	E CAPACITOR		
	C2578	NEA71HM-225X	E CAPACITOR		
	C2579	NCF31CZ-104X	C CAPACITOR		
	C2580	NCF31CZ-104X	C CAPACITOR		
	C2581	NEA71HM-105X	E CAPACITOR		
	C2582	NEA71CM-106X	E CAPACITOR		
	C2583	NCS31HJ-220X	C CAPACITOR		
	C2584	NCS31HJ-560X	C CAPACITOR		
	C2585	NCF31CZ-104X	C CAPACITOR		
	C2586	NCF31CZ-104X	C CAPACITOR		
	C2587	NCS31HJ-560X	C CAPACITOR		
	C2588	NEA71CM-106X	E CAPACITOR		
	C2589	NCF31CZ-104X	C CAPACITOR		
	C2590	NCF31CZ-104X	C CAPACITOR		
	C2591	NCB31CK-103X	C CAPACITOR		
	C2592	NCB31HK-223X	C CAPACITOR		
	C2593	NCB31HK-272X	C CAPACITOR		
	C2594	NCB31CK-104X	C CAPACITOR		
	C2595	NCB31HK-392X	C CAPACITOR		
	C2597	NEA71HM-225X	E CAPACITOR		
	C2598	NEA71EM-475X	E CAPACITOR		
	C2599	NCF31CZ-104X	C CAPACITOR		
	C2600	NCF31CZ-104X	C CAPACITOR		
	D 602	1SS355-X	DIODE C.M		
	D 607	1SS355-X	DIODE C.M		
	D 608	1SS355-X	DIODE C.M		
	EP601	E409182-001SM	GRAND TERMINAL		
	IC501	BA15218F-XE	IC		
	IC510	BA15218F-XE	IC		
	IC511	BA15218F-XE	IC		
	IC521	BA15218F-XE	IC		
	IC531	BA15218F-XE	IC		
	IC541	BA15218F-XE	IC		
	IC551	BA15218F-XE	IC		
	IC561	BA15218F-XE	IC		
	IC571	BA15218F-XE	IC		
	IC581	BA15218F-XE	IC		
	IC591	BA15218F-XE	IC		
	IC592	BA15218F-XE	IC		
	IC601	AK4527VQ	IC		
	IC602	BU4066BCF-X	IC		
	IC611	BU4066BCF-X	IC		
	IC621	TC7SU04FU-X	IC		
	IC622	TC7SU04FU-X	IC		
	IC631	TC9446F-013	IC		
	IC641	W24L011AJ-15-X	IC		
	IC671	UPD784215AGC102	IC		
	IC672	TC7SET32FU-X	IC		
△	IC681	PQ3DZ53-X	IC		
	IC683	PQ3DZ53-X	IC		
	J 601	EMN00TV-107A	PIN JACK		
	K 501	NQR0269-007X	FERRITE BEADS		
	K 502	NQR0269-007X	FERRITE BEADS		
	K 503	NQR0269-007X	FERRITE BEADS		
	K 504	NQR0269-007X	FERRITE BEADS		
	K 531	NQR0269-007X	FERRITE BEADS		
	K 532	NQR0269-007X	FERRITE BEADS		
	K 541	NQR0269-007X	FERRITE BEADS		
	K 542	NQR0269-007X	FERRITE BEADS		
	K 561	NQR0269-007X	FERRITE BEADS		
	K 562	NQR0269-007X	FERRITE BEADS		
	K 581	NQR0269-007X	FERRITE BEADS		
	K 582	NQR0269-007X	FERRITE BEADS		
△	K 601	NQR0269-007X	FERRITE BEADS		
	K 611	NQR0269-007X	FERRITE BEADS		
	K 612	NQR0269-007X	FERRITE BEADS		
	K 613	NQR0269-007X	FERRITE BEADS		
	K 614	NQR0269-007X	FERRITE BEADS		
	K 615	NQR0269-007X	FERRITE BEADS		
	K 616	NQR0269-007X	FERRITE BEADS		
	K 617	NQR0269-007X	FERRITE BEADS		
	K 618	NQR0269-007X	FERRITE BEADS		
	K 619	NQR0269-007X	FERRITE BEADS		
	K 620	NQR0269-007X	FERRITE BEADS		
	K 621	NQR0269-007X	FERRITE BEADS		
	K 622	NQR0269-007X	FERRITE BEADS		
	K 687	NQR0319-001X	F.BEADS C.M		
	L 661	NQL024J-470X	INDUCTOR CM		
	L 662	NQL024J-470X	INDUCTOR CM		
	L 663	NQL024J-470X	INDUCTOR CM		
	LC601	NQR0321-001X	EMI FILTER C.M		
	LC632	NQR0321-001X	EMI FILTER C.M		
	LC641	NQR0321-001X	EMI FILTER C.M		
	LC671	NQR0321-001X	EMI FILTER C.M		
	Q 601	DTC114YE-X	TRANSISTOR		
	Q 607	DTA144EKA-X	TRANSISTOR		
	Q 670	DTC114YE-X	TRANSISTOR		
	Q 671	2SD1328/ST-X	TRANSISTOR		
	Q 672	DTC114YE-X	TRANSISTOR		
	Q 673	DTA144EKA-X	TRANSISTOR		
	Q 674	DTC114YE-X	TRANSISTOR		
	Q 675	DTC114YE-X	TRANSISTOR		
	Q2501	DTA144EKA-X	TRANSISTOR		
	Q2521	2SD1328/ST-X	TRANSISTOR		
	Q2522	2SD1328/ST-X	TRANSISTOR		
	Q2561	2SD1328/ST-X	TRANSISTOR		
	Q2562	2SD1328/ST-X	TRANSISTOR		
	Q2581	2SD1328/ST-X	TRANSISTOR		
	Q2582	2SD1328/ST-X	TRANSISTOR		
	R 601	NRSA63J-473X	MG RESISTOR		
	R 602	NRSA63J-473X	MG RESISTOR		
	R 603	NRSA63J-473X	MG RESISTOR		
	R 604	NRSA63J-473X	MG RESISTOR		
	R 605	NRSA63J-473X	MG RESISTOR		
	R 606	NRSA63J-221X	MG RESISTOR		
	R 607	NRSA63J-221X	MG RESISTOR		
	R 608	NRSA63J-221X	MG RESISTOR		
	R 609	NRSA63J-221X	MG RESISTOR		
	R 610	NRSA63J-221X	MG RESISTOR		
	R 611	NRSA63J-332X	MG RESISTOR		
	R 612	NRSA63J-103X	MG RESISTOR		
	R 613	NRSA63J-822X	MG RESISTOR		
	R 615	NRSA63J-432X	MG RESISTOR		
	R 617	NRSA63J-103X	MG RESISTOR		
	R 618	NRSA63J-103X	MG RESISTOR		
	R 619	NRSA63J-221X	MG RESISTOR		
	R 620	NRSA63J-221X	MG RESISTOR		
	R 621	NRSA63J-221X	MG RESISTOR		
	R 622	NRSA63J-750X	MG RESISTOR		
	R 623	NRSA63J-101X	MG RESISTOR		
	R 625	NRSA63J-101X	MG RESISTOR		
	R 627	NRSA63J-472X	MG RESISTOR		
	R 628	NRSA63J-183X	MG RESISTOR		
	R 633	NRSA63J-221X	MG RESISTOR		
	R 639	NRSA63J-472X	MG RESISTOR		
	R 641	NRSA63J-102X	MG RESISTOR		

■ Electrical parts list (AC-3 board)

Block No. 05

▲	Item	Parts number	Parts name	Remarks	Area
	R 642	NRSA63J-103X	MG RESISTOR		
	R 643	NRSA63J-101X	MG RESISTOR		
	R 644	NRSA63J-563X	MG RESISTOR		
	R 645	NRSA63J-102X	MG RESISTOR		
	R 646	NRSA63J-103X	MG RESISTOR		
	R 647	NRSA63J-225X	MG RESISTOR		
	R 648	NRSA63J-472X	MG RESISTOR		
	R 649	NRSA63J-1R0X	MG RESISTOR		
	R 650	NRSA63J-1R0X	MG RESISTOR		
	R 651	NRSA63J-0R0X	MG RESISTOR		
	R 652	NRSA63J-0R0X	MG RESISTOR		
	R 657	NRSA63J-103X	MG RESISTOR		
	R 661	NRSA63J-221X	MG RESISTOR		
	R 662	NRSA63J-221X	MG RESISTOR		
	R 663	NRSA63J-221X	MG RESISTOR		
	R 664	NRSA63J-221X	MG RESISTOR		
	R 669	NRSA63J-103X	MG RESISTOR		
	R 670	NRSA63J-103X	MG RESISTOR		
	R 671	NRSA63J-103X	MG RESISTOR		
	R 672	NRSA63J-105X	MG RESISTOR		
	R 673	NRSA63J-432X	MG RESISTOR		
	R 674	NRSA63J-432X	MG RESISTOR		
	R 675	NRSA63J-432X	MG RESISTOR		
	R 676	NRSA63J-432X	MG RESISTOR		
	R 677	NRSA63J-822X	MG RESISTOR		
	R 678	NRSA63J-822X	MG RESISTOR		
	R 679	NRSA63J-822X	MG RESISTOR		
	R 680	NRSA63J-822X	MG RESISTOR		
	R 681	NRSA63J-103X	MG RESISTOR		
	R 682	NRSA63J-103X	MG RESISTOR		
	R 683	NRSA63J-0R0X	MG RESISTOR		
	R 685	NRSA63J-103X	MG RESISTOR		
	R 686	NRSA63J-151X	MG RESISTOR		
	R 691	NRSA63J-104X	MG RESISTOR		
	R 692	NRSA63J-104X	MG RESISTOR		
	R 695	NRSA63J-104X	MG RESISTOR		
	R 696	NRSA63J-104X	MG RESISTOR		
	R 697	NRSA63J-104X	MG RESISTOR		
	R 698	NRSA63J-104X	MG RESISTOR		
	R2500	NRSA63J-102X	MG RESISTOR		
	R2501	NRSA63J-104X	MG RESISTOR		
	R2502	NRSA63J-104X	MG RESISTOR		
	R2503	NRSA63J-203X	MG RESISTOR	VER.C	
	R2503	NRSA63J-183X	MG RESISTOR	VER.J	
	R2504	NRSA63J-183X	MG RESISTOR	VER.J	
	R2504	NRSA63J-203X	MG RESISTOR	VER.C	
	R2505	NRSA63J-103X	MG RESISTOR		
	R2506	NRSA63J-103X	MG RESISTOR		
	R2507	NRSA63J-103X	MG RESISTOR		
	R2508	NRSA63J-103X	MG RESISTOR		
	R2509	NRSA63J-103X	MG RESISTOR		
	R2510	NRSA63J-103X	MG RESISTOR		
	R2511	NRSA63J-102X	MG RESISTOR		
	R2512	NRSA63J-102X	MG RESISTOR		
	R2513	NRSA63J-102X	MG RESISTOR		
	R2514	NRSA63J-102X	MG RESISTOR		
	R2515	NRSA63J-102X	MG RESISTOR		
	R2516	NRSA63J-102X	MG RESISTOR		
	R2517	NRSA63J-102X	MG RESISTOR		
	R2518	NRSA63J-102X	MG RESISTOR		
	R2519	NRSA63J-102X	MG RESISTOR		
	R2520	NRSA63J-102X	MG RESISTOR		
	R2521	NRSA63J-102X	MG RESISTOR		

▲	Item	Parts number	Parts name	Remarks	Area
	R2522	NRSA63J-102X	MG RESISTOR		
	R2523	NRSA63J-102X	MG RESISTOR		
	R2524	NRSA63J-102X	MG RESISTOR		
	R2525	NRSA63J-102X	MG RESISTOR		
	R2526	NRSA63J-102X	MG RESISTOR		
	R2527	NRSA63J-104X	MG RESISTOR		
	R2528	NRSA63J-104X	MG RESISTOR		
	R2529	NRSA63J-103X	MG RESISTOR		
	R2530	NRSA63J-103X	MG RESISTOR		
	R2531	NRSA63J-103X	MG RESISTOR	VER.C	
	R2531	NRSA63J-113X	MG RESISTOR	VER.J	
	R2532	NRSA63J-113X	MG RESISTOR	VER.J	
	R2532	NRSA63J-103X	MG RESISTOR	VER.C	
	R2533	NRSA63J-103X	MG RESISTOR		
	R2534	NRSA63J-103X	MG RESISTOR		
	R2535	NRSA63J-103X	MG RESISTOR		
	R2536	NRSA63J-103X	MG RESISTOR		
	R2537	NRSA63J-104X	MG RESISTOR		
	R2538	NRSA63J-104X	MG RESISTOR		
	R2541	NRSA63J-113X	MG RESISTOR	VER.J	
	R2541	NRSA63J-103X	MG RESISTOR	VER.C	
	R2542	NRSA63J-103X	MG RESISTOR	VER.C	
	R2542	NRSA63J-113X	MG RESISTOR	VER.J	
	R2543	NRSA63J-103X	MG RESISTOR		
	R2544	NRSA63J-103X	MG RESISTOR		
	R2545	NRSA63J-562X	MG RESISTOR		
	R2546	NRSA63J-562X	MG RESISTOR		
	R2547	NRSA63J-104X	MG RESISTOR		
	R2548	NRSA63J-104X	MG RESISTOR		
	R2550	NRSA63J-272X	MG RESISTOR		
	R2551	NRSA63J-103X	MG RESISTOR		
	R2552	NRSA63J-103X	MG RESISTOR		
	R2553	NRSA63J-103X	MG RESISTOR	VER.C	
	R2553	NRSA63J-153X	MG RESISTOR	VER.J	
	R2554	NRSA63J-153X	MG RESISTOR	VER.J	
	R2554	NRSA63J-103X	MG RESISTOR	VER.C	
	R2555	NRSA63J-472X	MG RESISTOR	VER.C	
	R2555	NRSA63J-822X	MG RESISTOR	VER.J	
	R2556	NRSA63J-822X	MG RESISTOR	VER.J	
	R2556	NRSA63J-472X	MG RESISTOR	VER.C	
	R2557	NRSA63J-103X	MG RESISTOR		
	R2558	NRSA63J-223X	MG RESISTOR	VER.C	
	R2558	NRSA63J-223X	MG RESISTOR	VER.J	
	R2560	NRSA63J-105X	MG RESISTOR		
	R2561	NRSA63J-104X	MG RESISTOR		
	R2562	NRSA63J-104X	MG RESISTOR		
	R2563	NRSA63J-103X	MG RESISTOR		
	R2564	NRSA63J-103X	MG RESISTOR		
	R2565	NRSA63J-472X	MG RESISTOR	VER.C	
	R2565	NRSA63J-302X	MG RESISTOR	VER.J	
	R2566	NRSA63J-302X	MG RESISTOR	VER.J	
	R2566	NRSA63J-472X	MG RESISTOR	VER.C	
	R2567	NRSA63J-103X	MG RESISTOR		
	R2568	NRSA63J-103X	MG RESISTOR		
	R2571	NRSA63J-102X	MG RESISTOR		
	R2572	NRSA63J-102X	MG RESISTOR		
	R2573	NRSA63J-102X	MG RESISTOR		
	R2574	NRSA63J-102X	MG RESISTOR		
	R2575	NRSA63J-102X	MG RESISTOR		
	R2576	NRSA63J-102X	MG RESISTOR		
	R2577	NRSA63J-104X	MG RESISTOR		
	R2578	NRSA63J-104X	MG RESISTOR		
	R2581	NRSA63J-104X	MG RESISTOR		

■ Electrical parts list (AC-3 board)

Block No. 05

△	Item	Parts number	Parts name	Remarks	Area
	R2582	NRSA63J-104X	MG RESISTOR		
	R2583	NRSA63J-103X	MG RESISTOR		
	R2584	NRSA63J-223X	MG RESISTOR		
	R2585	NRSA63J-472X	MG RESISTOR	VER.C	
	R2585	NRSA63J-302X	MG RESISTOR	VER.J	
	R2586	NRSA63J-332X	MG RESISTOR		
	R2587	NRSA63J-103X	MG RESISTOR		
	R2588	NRSA63J-103X	MG RESISTOR		
	R2589	NRSA63J-104X	MG RESISTOR		
	R2590	NRSA63J-333X	MG RESISTOR		
	R2591	NRSA63J-102X	MG RESISTOR		
	R2592	NRSA63J-333X	MG RESISTOR		
	R2593	NRSA63J-102X	MG RESISTOR		
	R2594	NRSA63J-333X	MG RESISTOR		
	R2595	NRSA63J-102X	MG RESISTOR		
	R2596	NRSA63J-102X	MG RESISTOR		
	R2597	NRSA63J-104X	MG RESISTOR		
	R2598	NRSA63J-104X	MG RESISTOR		
	UN661	GP1FA550RZ	OPT RECEIVER		
	UN662	GP1FA550RZ	OPT RECEIVER		
	UN663	GP1FA550TZ	OPT TRANSMITTER		
	X 631	NAX0385-001X	CRYSTAL		
	X 671	NAX0275-001X	C OSCILLATOR		

■ Electrical parts list (Tuner board)

Block No. 06

△	Item	Parts number	Parts name	Remarks	Area
	C 157	NCB21HK-473X	C CAPACITOR		
	C 158	QEKCTCM-226Z	E CAPACITOR	22MF 20% 16V	
	C 161	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 162	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 163	NCB21HK-223X	C CAPACITOR		
	C 164	NCB21HK-473X	C CAPACITOR		
	C 168	QEKCHM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C 184	QEKCTCM-107Z	E CAPACITOR	100MF 20% 16V	
	C 185	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 186	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	CF101	QAX0419-001Z	C FILTER		
	CF102	QAX0604-001Z	C FILTER		
	CF103	QAX0519-001Z	C FILTER		
	CN111	QGB2501K2-12	CONNECTOR		
	D 121	1SS133-T2	SI DIODE IM		
	D 123	1SS133-T2	SI DIODE IM		
	D 124	1SS133-T2	SI DIODE IM		
	D 125	1SS133-T2	SI DIODE IM		
	D 129	1SS133-T2	SI DIODE IM		
	IC102	LA1836	IC		
	IC121	LC72136N	IC		
	Q 102	2SC535/BC-T	TRANSISTOR		
	Q 103	2SC461/BC-T	TRANSISTOR		
	Q 121	DTA124ESA-T	D.TRIUM		
	R 103	NRSA02J-221X	MG RESISTOR		
	R 104	NRSA02J-272X	MG RESISTOR		
	R 105	NRSA02J-391X	MG RESISTOR		
	R 106	NRSA02J-102X	MG RESISTOR		
	R 107	NRSA02J-391X	MG RESISTOR		
	R 108	NRSA02J-332X	MG RESISTOR		
	R 109	NRSA02J-221X	MG RESISTOR		
	R 115	NRSA02J-104X	MG RESISTOR		
	R 119	NRSA02J-103X	MG RESISTOR		
	R 122	NRSA02J-472X	MG RESISTOR		
	R 124	NRSA02J-222X	MG RESISTOR		
	R 126	NRSA02J-562X	MG RESISTOR		
	R 127	NRSA02J-822X	MG RESISTOR		
	R 128	NRSA02J-472X	MG RESISTOR		
	R 129	NRSA02J-222X	MG RESISTOR		
	R 130	QRZ9005-680X	F.RES. I.M	68. 1/0W	
	R 132	NRSA02J-393X	MG RESISTOR		
	R 133	NRSA02J-392X	MG RESISTOR		
	R 134	NRSA02J-102X	MG RESISTOR		
	R 140	NRSA02J-183X	MG RESISTOR		
	R 141	NRSA02J-102X	MG RESISTOR		
	R 142	NRSA02J-470X	MG RESISTOR		
	R 143	NRSA02J-562X	MG RESISTOR		
	R 144	NRSA02J-332X	MG RESISTOR		
	R 145	NRSA02J-103X	MG RESISTOR		
	R 146	NRSA02J-392X	MG RESISTOR		
	R 147	NRSA02J-332X	MG RESISTOR		
	R 150	NRSA02J-331X	MG RESISTOR		
	R 157	NRSA02J-682X	MG RESISTOR		
	R 158	NRSA02J-682X	MG RESISTOR		
	R 161	NRSA02J-102X	MG RESISTOR		
	R 162	NRSA02J-102X	MG RESISTOR		
	R 182	NRSA02J-103X	MG RESISTOR		
	R 183	NRSA02J-103X	MG RESISTOR		
	R 184	NRSA02J-103X	MG RESISTOR		
	RF101	QAU0124-002	FRONT END		
	T 111	QQR0796-001	COIL BLOCK		
	T 142	QQR0973-001	IFT		
	X 121	QAX0402-001	CRYSTAL		

■ Electrical parts list (Tuner board)

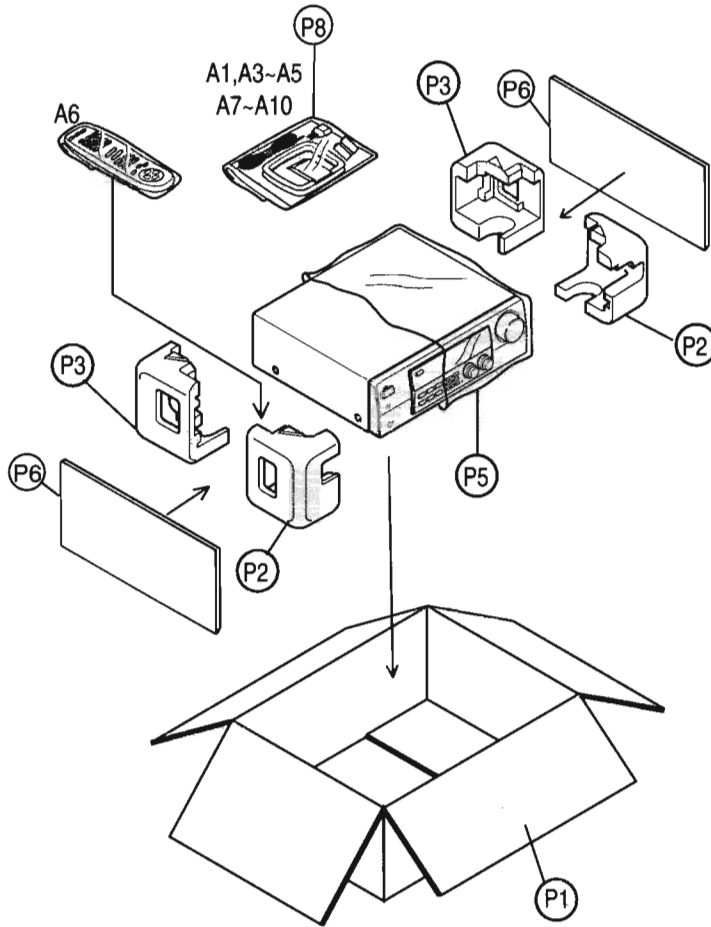
Block No. 06

△	Item	Parts number	Parts name	Remarks	Area
	AT101	QNB0014-001	ANT TERMINAL		
	BK 1	LV31618-001	SHIELD-BKT		
	C 101	NCB21HK-103X	C CAPACITOR		
	C 103	NCB21HK-223X	C CAPACITOR		
	C 105	NCB21HK-223X	C CAPACITOR		
	C 107	QEKCTCM-226Z	E CAPACITOR	22MF 20% 16V	
	C 111	NCB21HK-473X	C CAPACITOR		
	C 112	NDC21HJ-120X	C CAPACITOR		
	C 121	NDC21HJ-120X	C CAPACITOR		
	C 122	NDC21HJ-120X	C CAPACITOR		
	C 123	NCB21HK-473X	C CAPACITOR		
	C 126	NCS21HJ-101X	C CAPACITOR		
	C 128	QENC1HM-474Z	NP E.CAPA. I.M	47MF 20% 50V	
	C 129	NCB21HK-102X	C CAPACITOR		
	C 130	QEKCHM-107Z	E CAPACITOR	100MF 20% 10V	
	C 133	QEKCTCM-226Z	E CAPACITOR	22MF 20% 16V	
	C 134	NCB21HK-222X	C CAPACITOR		
	C 135	NCB21HK-223X	C CAPACITOR		
	C 136	QEKCHM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C 137	NCB21HK-331X	C CAPACITOR		
	C 138	NCB21HK-473X	C CAPACITOR		
	C 139	NCB21HK-333X	C CAPACITOR		
	C 140	NCB21HK-333X	C CAPACITOR		
	C 141	NCB21HK-473X	C CAPACITOR		
	C 143	NCB21HK-223X	C CAPACITOR		
	C 144	NCB21HK-473X	C CAPACITOR		
	C 146	QEKCHM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C 147	QEKCHM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C 148	QEKCHM-224Z	E CAPACITOR	22MF 20% 50V	
	C 149	QEKCHM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C 150	QEKCTCM-226Z	E CAPACITOR	22MF 20% 16V	
	C 156	QDGB1HK-102Y	C CAPACITOR		

Packing materials and accessories parts list

Block No. **M 2 M M**

Block No. **M 3 M M**



■ Packing parts list

Block No. M2MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	P 1	LV30044-0F7A	CARTON BOX	1		
	P 2	LV20039-002A	PACKING PAD	1		
	P 3	LV20040-001A	PACKING PAD	1		
	P 5	QPC06507015P	POLY BAG	1		
	P 6	LV32034-003A	SHEET	2		
	P 8	QPA02503505P	POLY BAG	1		

■ Accessories parts list

Block No. M3MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	A 1	LVT0396-002A	I.BOOK(VER.C)	1	(ENG.FRE)	
		LVT0396-001A	I.BOOK(VER.J)	1	(ENG)	
	A 3	EWP503-001C	ANT.WIRE	1		
	A 4	QAL0204-001	AM LOOP ANT	1		
	A 5	BT-51020-2	J=REGIST CARD	1	VER.J	
	A 6	RM-SRX7000J	REMOCON	1		
	A 7	-----	BATTERY	1		
	A 8	BT-20044G	WARRANTY CARD	1	VER.J	
	A 9	BT-20071B	SERVICE NETWORK	1	VER.C	
	A 10	BT-52004-1	WARRANTY CARD	1	VER.C	

-MEMO-

RX-7000VBK

JVC

VICTOR COMPANY OF JAPAN, LIMITED

AUDIO DIVISION, 10-1, 1chome, Ohwatari-machi, Maebashi-city, 371-8543, Japan