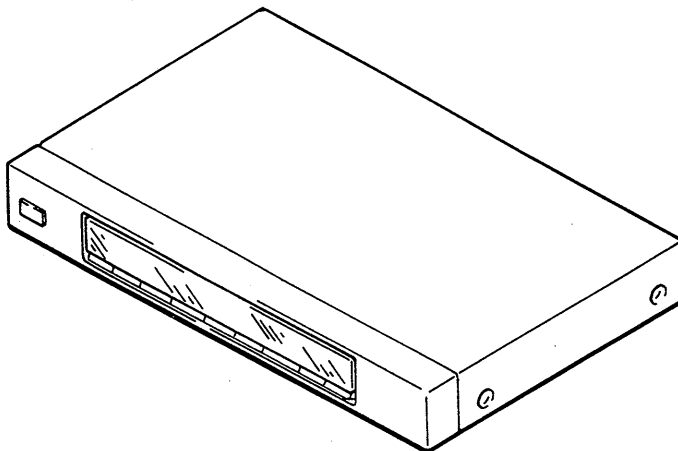


SRC-100

SERVICE MANUAL

US Model



SPECIFICATIONS

Power requirements	120 V AC, 60 Hz
Power consumption	10 W
Input/output jacks	
REMOTE IN (1)	
IR REPEATER OUTPUT (9)	
CONTROL-S WIRE OUTPUT	
Video (4)	
Audio (4)	
VIDEO IN (1)/VIDEO OUT (1)	
AC outlet (4)	
AC 120 V, 60 Hz, Total 2.5 A, 300 W max., switched	
Operation temperature	5°C/41°F — 35°C/95°F
Storage temperature	-20°C/-4°F — +60°C/140°F
Dimensions	17 × 2 ⁵ / ₈ × 12 ⁷ / ₈ inches (w/h/d) (430 × 64 × 325 mm)
Mass	Approx. 7 lb. 1 oz. (3.2 kg)

Remote Commander RM-SC100

Power requirements	DC 3 V, 2 size AA batteries
Dimensions	2 ¹ / ₄ × 1 × 7 ³ / ₄ inches (w/h/d) (56 × 24.7 × 196 mm)
Mass	Approx. 5 oz. (130 g)

Supplied accessories

Video Control-S cables (2)
IR Repeaters (4)
Double-sided tape (4)
Remote control (1)
Size AA battery (2)

Design and specifications subject to change without notice.

AV CONTROLLER
SONY®



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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

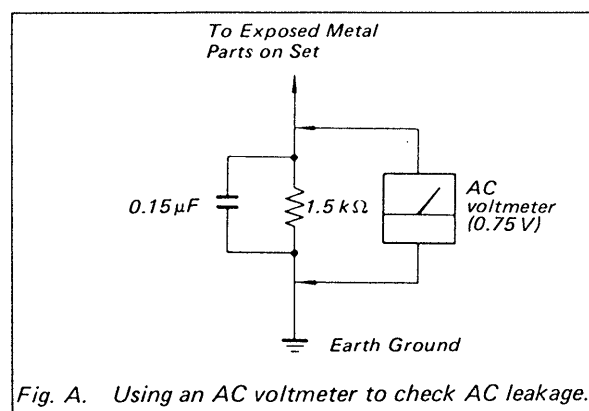
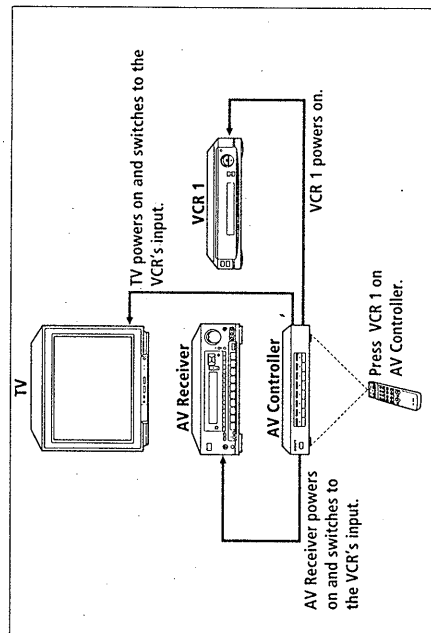


Fig. A. Using an AC voltmeter to check AC leakage.

What Is the AV Controller?

The Sony AV Controller allows you to use a single remote commander to easily control almost all the primary functions of a Sony home entertainment system. When connected to your audio/video system, the AV Controller acts as a central "command center." It remembers the way your system is set up, automatically translating signals from the remote commander and then forwarding them to the components needed to perform specific functions: watching a laserdisc, rewinding a tape, listening to a CD, and so on.

For example, when you press the **VCR1** button on the AV Controller's remote commander or front panel, the AV Controller powers on your VCR, TV, and AV receiver. It then automatically switches the TV and AV receiver to the correct inputs. In other words, the AV Controller turns on and sets up all the components so that all you need to do to start enjoying a tape is press the **PLAY** button.



In addition to being a single-remote solution for most of your components' operations, the AV Controller also allows you to place them in a variety of locations, including cabinets, bookshelves, and typical glass-door "racks." You can even place your components inside closed cabinets, and operate them while they're concealed behind the cabinet doors — something you can't do using conventional infrared remote controls. (With an optional IR receiver, you can even place the AV Controller itself inside a closed cabinet.)

SECTION 1 GENERAL

This section is extracted from instruction manual (Read This First).

To use the AV Controller, you must have — at a minimum — a Sony TV and audio/video receiver.

Of course, the benefits of using the AV Controller increase as you add other Sony audio and video components to your entertainment system. To take full advantage of the AV Controller's capabilities, you'll probably want to include other audio and video components. The AV Controller supports most of current Sony components:

- VCR(s)
- Laser disc players
- Compact disc players
- Audio cassette players
- MiniDisc or digital audio tape (DAT) players
- Most brands of cable TV converters (cable boxes)

To use these components with the AV Controller, they must have a Control-S jack on the rear panel or be operable with an infrared remote control. If you're not sure if your components have either of these features, check the instruction manuals that came with your components.

What About My Other (Non-Sony) Components?

The AV Controller is designed to provide the best results when you use only Sony brand audio and video components. However, with the exception of the AV receiver and TV, which must be a Sony, you can use other (non-Sony) components with the AV Controller — to a limited extent. Although the AV Controller will switch inputs accordingly, you'll have to power on/off and operate the non-Sony component with its original remote control.

For example, if you hook up your non-Sony CD player to the AV Controller, when you press the **CD** button on the AV Controller's remote commander, the AV Controller switches the AV receiver to the CD input. At this point, you'll need to turn on your CD player and operate it with its own remote control.

Testing the Compatibility of Your Sony Components

You must have a Sony TV and Sony AV receiver in order to use the AV Controller. Not all Sony TVs and AV receivers are compatible with the AV Controller.

If you have a Sony TV or AV receiver with infrared remote capability, the first thing you need to do is test to see if they are compatible with the AV Controller. Before you get started with these tests, make sure the supplied batteries are inserted correctly into the AV Controller's remote commander.

Testing Your Sony TV

To test your Sony TV's power on/off function:

- 1 Press and release the **SYSTEM OFF** button.
- 2 Point the AV Controller's remote commander at your TV.
- 3 Hold down the **MUTING** button; then press and release the **TV** button. *The TV should power on.*
- 4 Continue holding down the **MUTING** button. Then press the **TV** button again. *The TV should now power off.*

To test your TV's input select function:

- 1 Press and release the **SYSTEM OFF** button.
- 2 Power on your TV again.
- 3 Point the AV Controller's remote commander at your TV.
- 4 Hold down the **MUTING** button; then press and release the **REC** button. *The TV should switch to the TV input.*
- 5 Continue holding down the **MUTING** button. Then press the **REC** button again. The TV should now switch to the **VIDEO 1** input. Each time you press the **MUTING+REC** buttons your TV should cycle through all the TV's available inputs:

TV → VIDEO 1 → VIDEO 2 → VIDEO 3
↑

If Either of These Tests Fails...

Try performing the tests again. If you still cannot get the TV to pass the test, your TV is not compatible with the AV Controller. If you use this TV, you will have to turn it on and off, and select inputs using the TV remote. This eliminates most of the benefits of using the AV Controller.

Testing Your Sony AV Receiver

To test your Sony AV receiver's power on/off function:

- 1 Press and release the **SYSTEM OFF** button.
- 2 Point the AV Controller's remote commander at your AV receiver.
- 3 Hold down the **MUTING** button; then press and release the **FM/AM** button. *The AV receiver should power on.*
- 4 Continue holding down the **MUTING** button; then press the **FM/AM** button again. *The AV receiver should now power off.*

If This Test Fails...

Try performing the test again. If you still cannot get the AV receiver to pass the test, your AV receiver is not compatible with the AV Controller. It is not possible to use the AV Controller with an AV receiver that is not compatible.

How Do I Get Started?

To set up and start using the AV Controller, follow the step-by-step instructions included in each numbered booklet:

- 1 Read This First:** Booklet 1 (this booklet) presents an overview of the AV Controller and accessories, and explains how to check if your audio and video components are compatible with the AV Controller.
- 2 Antenna/Cable Hookup:** Booklet 2 explains how to hook up your antenna or cable TV system.
- 3 AV Hookup:** Booklet 3 explains how to hook up your audio and video components.
- 4 Control Hookup:** Booklet 4 explains how to hook up the AV Controller and all AC connections.
- 5 Setup and Operation:** Booklet 5 describes how to run the on-screen Setup program to add a cable box (if you have a cable box).

It explains how to use the AV Controller's remote commander to operate your specific audio and video components. This booklet also includes instructions for adding components to your system, or changing the way they're set up. Specifications and troubleshooting information are also included in Booklet 5.

Note

Follow the hookup procedures in Booklets 2 through 4 as closely as possible. This will minimize the changes you'll need to make in the Setup program, and also reduce the likelihood you'll encounter problems once you start using the AV Controller with your components.

Using the Setup Checklist

Important!

While you hook up your components, you must make a record of how they're connected. You'll need this information in order to answer the questions you'll encounter in the Setup program, which is described in Booklet 5. To make this easy, we've included a Setup Checklist, which you must use to record this information as you connect each component.

Overview

This booklet describes the first step in hooking up the AV Controller — hooking up your system's antenna or cable TV to your video components.

Which Hookup Should I Use?

There are several ways you can hook up your video components, depending on several factors, such as whether or not you have cable TV, a cable box (converter), or if your cable TV company "scrambles" any of your channels. (Many cable TV companies scramble premium and pay-per-view channels.)

Use the following chart to determine which hookup will work best for you.

Use ...	If You're Using ...	What You Can't Do with This Hookup
Hookup A	an antenna (no cable TV) or cable TV without a cable box	Watch or record scrambled channels
Hookup B	cable TV with a cable box, few of your channels are scrambled, and you don't need to record scrambled channels	Watch or record scrambled channels Record scrambled channels
Hookup C	cable TV with a cable box, few of your channels are scrambled, and you want to record scrambled channels	Record scrambled channels on your second VCR Watch and record different scrambled channels at the same time
Hookup D	cable TV with a cable box, and most or all of your channels are scrambled	Watch and record different scrambled channels at the same time

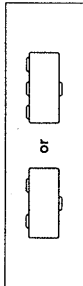
Illustrations of each hookup are on the next page.

What Cables Will I Need?

To complete the hookups described in this booklet, you'll need the following cables and accessories (most of which you'll probably already have).

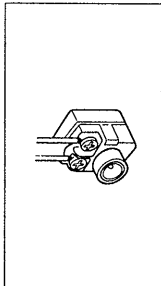


75-ohm coaxial cable with F-type connector at each end



Two- or three-way video signal splitter
(Use a three-way splitter if you're hooking up 2 VCRs)

See the illustration of your hookup on the next page to determine how many cables you'll need.

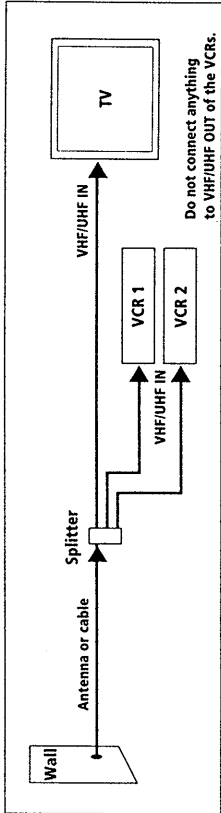


If you'll be using Hookup A and you have a 300-ohm twin-lead (flat) antenna instead of a coaxial cable, you'll also need to install an antenna adaptor, as shown at left.

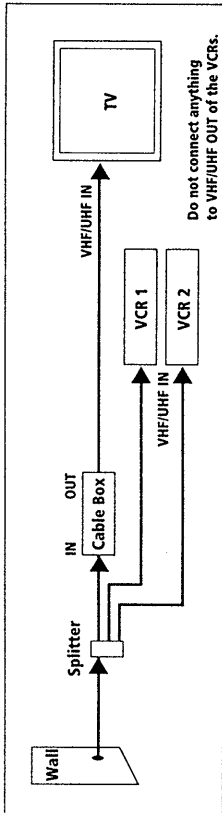
Note

In each of the following hookups, two VCRs and a three-way splitter are shown. If you have only one VCR, you'll need only a two-way splitter.

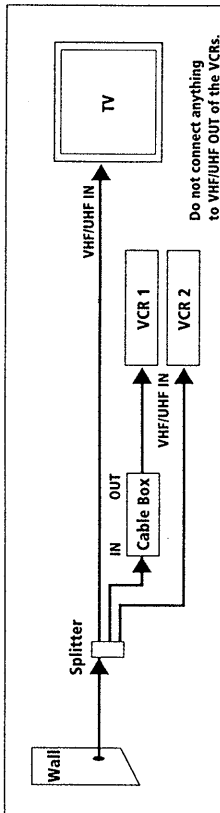
Hookup A (details on next page)



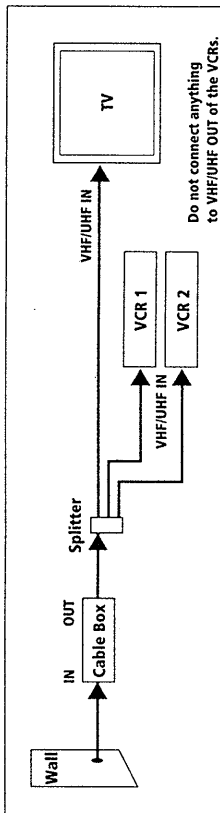
Hookup B (details on next page)



Hookup C (details on next page)

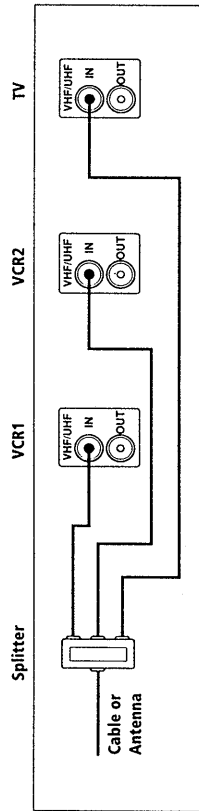


Hookup D (details on next page)

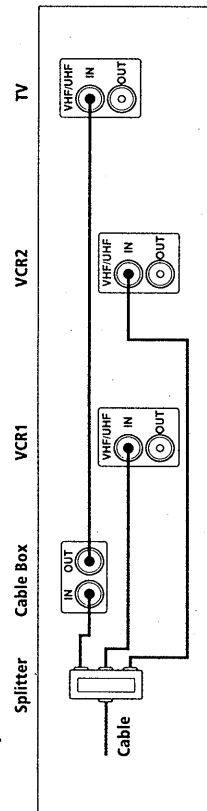


Antenna/Cable Hookup

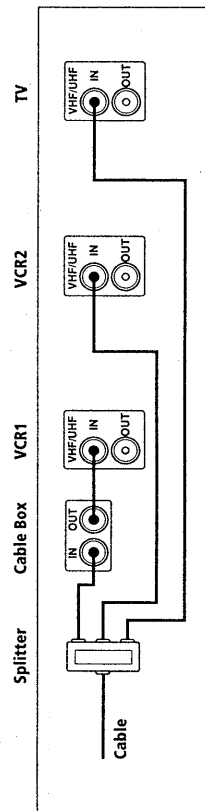
Hookup A Details



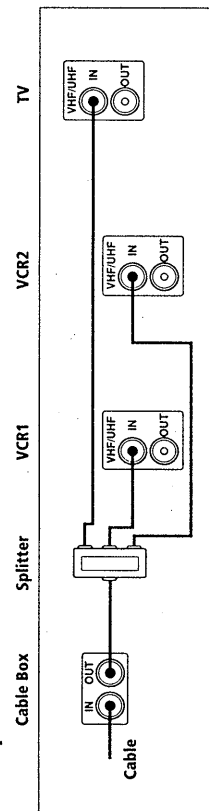
Hookup B Details



Hookup C Details



Hookup D Details

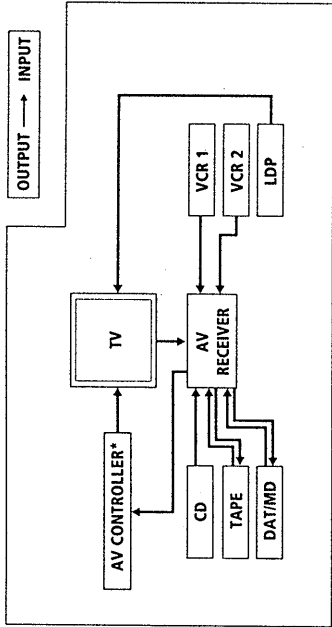


Where Do I Go Next?

After you've completed hooking up your antenna or cable, you need to record your connections on the Setup Checklist. Then go to Booklet 3, which describes how to hook up your audio and video components.

Overview

This booklet describes step 2 in hooking up the AV Controller — hooking up your system's audio and video components.



What Cables Will I Need?

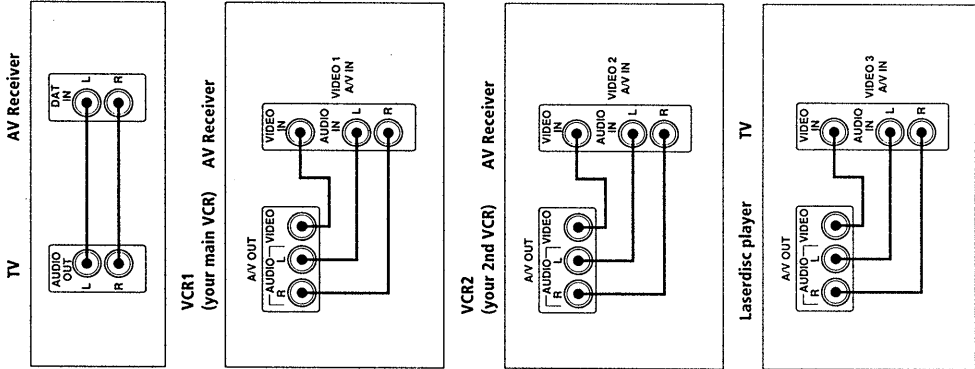
To complete the hookups described in this booklet, you'll need the following audio and video phono cables, most of which probably came with your components. If you need additional cables, they can be purchased at your local Sony dealer or electronics store.

Component	No. of Cables	Cable Type You'll Need
VCRs Laser disc players	1 each	Red White Yellow White Yellow
CD, TV	1 each	Red White Yellow
Tape player MiniDisc or DAT player	2 each	Red White Yellow
TV, AV Controller, and AV Receiver	1 each	Yellow White Yellow

Note

When connecting cables, be sure to match the color-coded cables to the appropriate connectors on the components: Red (right) to Red; White (left) to White; and Yellow (video) to Yellow.

Video Component Hookups



■ If your TV has fixed and variable audio output jacks, use the fixed audio output jacks, not the variable jacks. Then set the TV's rear panel speaker switch to **OFF** (if your TV has this switch. Some TV's use an on-screen menu to turn off the speakers. Use the on-screen menu if your TV uses this feature.).

■ If your TV has an **S-VIDEO IN** jack, and your VCR or laserdisc player has an **S-VIDEO OUT** jack, you'll get a better picture by using them instead of the video hookups shown at left. Connect the video component's **S-VIDEO OUT** to the TV's **S-VIDEO IN**. (For the Setup Checklist, you don't need to specify that you used **S-VIDEO** jacks, but make sure you note which input (**VIDEO1, 2, or 3**) on the TV you used.)

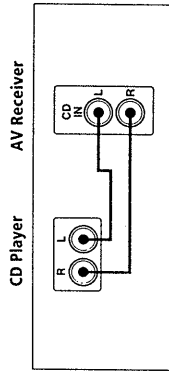
If your system meets any of the following descriptions, you can use these alternate hookup options instead of the ones shown at the left:

■ If your AV receiver does not have an MD/DAT jack, the TV must be connected to one of the other available input jacks on the AV receiver.

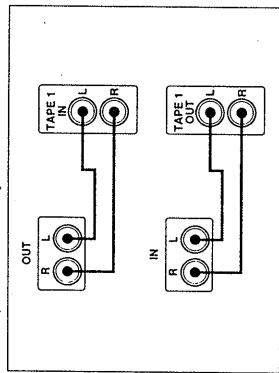
■ If you're connecting more video components than your receiver can accommodate, connect the additional video component(s) to any of your TV's **VIDEO IN** jacks, except **VIDEO 1 IN** (which is used by the AV Controller).

Be certain to note the way you've hooked up these components on the Setup Checklist.

Audio Component Hookups



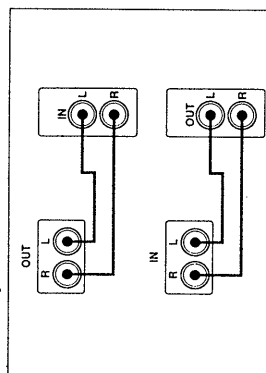
Tape (Cassette) Player AV Receiver



■ Some AV receivers may label this jack **TAPE PLAY** instead of **TAPE IN**.

■ Some AV receivers may label this jack **TAPE REC** instead of **TAPE OUT**.

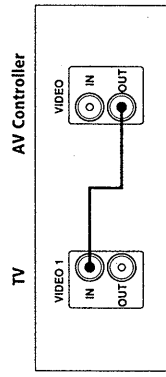
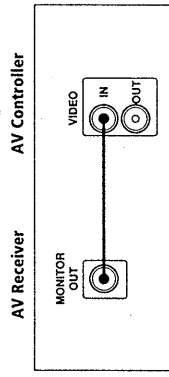
MiniDisc or DAT Player AV Receiver



■ If you have a DAT or MiniDisc player, connect it to **TAPE1**, or **MD/DAT**. If you use the MD / DAT input for an MD or DAT player, you must connect the TV's audio to a different input (**CD**, **VIDEO1, 2, or 3**) that is not being used.

Be certain to note the way you've hooked up these components on the Setup Checklist.

AV Controller Hookups

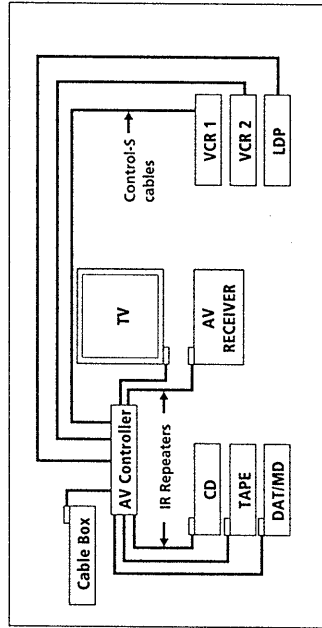


Where Do I Go Next?

After you've completed hooking up your audio and video components, you need to record your connections on the Setup Checklist. Then go to Booklet 4, which describes how to finish hooking up the AV Controller.

Overview

This booklet describes step 4 in hooking up the AV Controller—hooking up the control cables: Control-S cables and IR Repeaters. This booklet also explains how to connect your system's AC power cords.

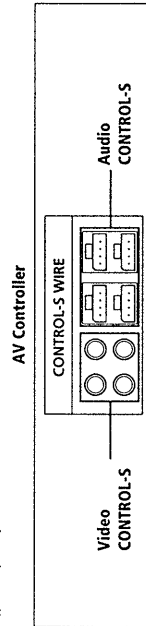


Control-S and IR Repeaters

You must hook up your components to the AV Controller in one of two ways: using the **CONTROL-S** output jack or the **IR OUTPUT** jack. For best results, you should use your components' Control-S connection, if your component has this jack. To determine if your component has this jack, check the rear panel of the component or see the component's instruction manual.

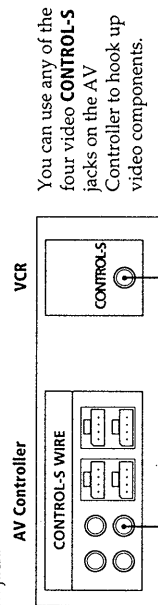
Note

Video Control-S cables are different from audio Control-S cables. The AV Controller has different jacks for audio and video Control-S cables.



Control-S Video Components

For each video component that has a Control-S jack, connect a Control-S cable (supplied) to any one of the AV Controller's video **CONTROL-S** jacks. Then connect the other end of the Control-S cable to the component's **CONTROL-S IN** jack. For example, to hook up a VCR that has a **CONTROL-S** IN jack:

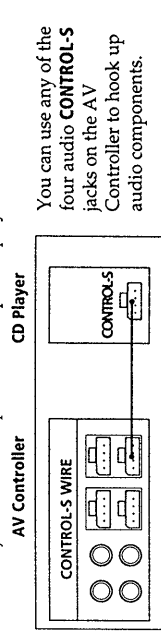


You can use any of the four video **CONTROL-S** jacks on the AV Controller to hook up video components.

Additional Video Control-S cables can be purchased from your Sony dealer.

Control-S Audio Components

If you have audio components that have a Control-S jack, connect a Control-S cable (not supplied) to any one of the AV Controller's audio Control-S jacks. For example, to hook up a CD player:



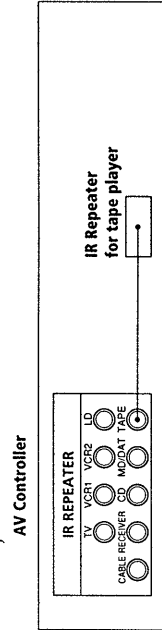
You can use any of the four audio **CONTROL-S** jacks on the AV Controller to hook up audio components.

Note

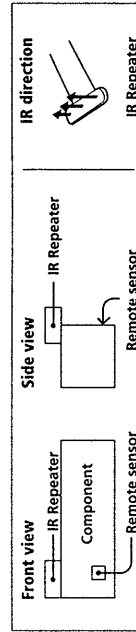
If your audio components have CONTROL-S, these cables are usually included when you purchase the component. Additional audio CONTROL-S cables can be purchased through the dealer where you purchased the AV Controller.

IR Repeaters (Audio and Video)

If you're hooking up components that don't have Control-S jacks, you must use the IR Repeaters instead of Control-S cables. For example, to hook up an IR Repeater to a tape player, first connect it to the AV Controller's **IR REPEATER** jack labeled **TAPE**:



Next, place the other end of the Repeater on the audio or video component; for best results, position the Repeater as close as possible to the component's infrared "window" (the window used by the component's remote control). If the infrared window has the (B) mark, place the Repeater as close as possible to this mark.



You can place the IR Repeater on the top or side panels, or beneath the component, whichever works best for your individual system setup. For best operation, place it so it protrudes about half an inch over the infrared window. Then attach it to the component with double-sided tape (supplied), and secure it to the component.

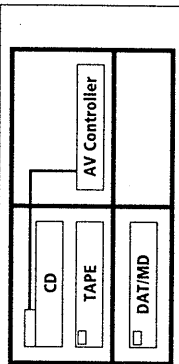
Connect an IR Repeater for each component that doesn't use a Control-S connection, including your cable box (if you have one).

If you need to purchase additional Control-S cables or IR Repeaters, call the dealer where you purchased the AV Controller.

Notes

- If you're connecting components that will be inside closed cabinets, you must use one IR Repeater for each component (unless they are connected with Control-S wires).
- If you have a cable box, it must use its own IR Repeater and be connected to the IR REPEATER CABLE jack on the AV Controller.
- If you're connecting components that will not be inside closed cabinets you may be able to use a single IR Repeater to control multiple components by placing an IR Repeater on the top component. Note, however, that this may not always work, depending on the configuration of your cabinet's shelves and the location of the IR windows on your components.

Example of using a single IR Repeater to control a CD player, tape and DAT or MiniDisc player in an open cabinet.



Optional IR Receiver

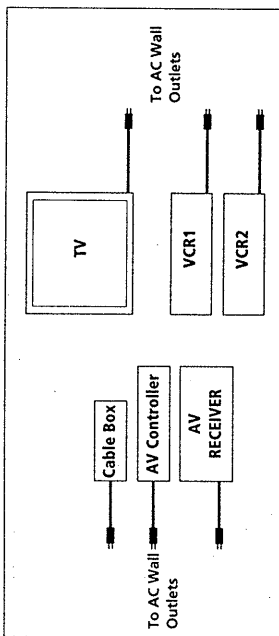
An optional IR receiver (model RMR-SC100) is available separately, which allows you to place the AV Controller itself inside a closed cabinet.

To connect this IR receiver to the AV Controller, first connect it to the AV Controller's **REMOTE IN** jack. Then place the IR receiver outside of the closed cabinet.

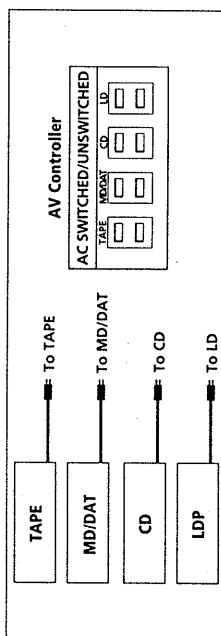
To purchase the optional IR receiver, see the Sony dealer where you purchased the AV Controller.

AC Hookups

TV, Cable Box, AV Controller, AV Receiver, and VCR(s)
Connect the AC power cords from your TV, Cable box, AV Controller, AV receiver and your VCR(s) to any AC wall outlet.

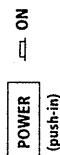


Other A/V Components
Connect the AC power cords from your other components (LDP, tape, MiniDisc or DAT, CD player) to the labeled AC jacks on the rear panel of the AV Controller:



Power Switches

After you've connected the AC power cords, make sure that all your components' mechanical ("push-in" type) power switches are set to on.



These mechanical power switches should always be left on. The AV Controller will turn these components on and off.

Where Do I Go Next?

If you haven't completed the Setup Checklist for all your components, be sure you do this now. You'll need this information to complete the Setup program, which is described in Booklet 5.

Overview

This booklet describes how to get started using the AV Controller. Topics included are:

- Running the Setup program (pages 2 through 5)
- Using the AV Controller (page 6)
- Troubleshooting (page 10)
- Specifications (Back cover)

Where Do I Start?

You can start using the AV Controller right away — without first having to run the Setup program — only if your system and hookups match the Standard Setup, which is the “default” setup that the AV Controller is shipped with.

You can determine if your system matches the Standard Setup by checking the Setup Checklist, which you completed when you hooked up your system. The Standard Setup is defined by the options that appear in **white-on-black** on the Setup Checklist. If your system hookups match all of these options, then your system matches the Standard Setup, and you can start using the AV Controller right away.

Most likely, however, your system will be somewhat different from the Standard Setup. If your system doesn't match the Standard Setup (if you checked off options other than the **white-on-black** options), you need to run the AV Controller Setup program and change the options to reflect the way you hooked up your components.

For example, you'll need to run Setup if your system meets any of the following descriptions:

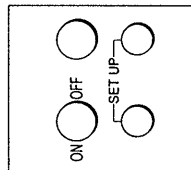
- You have a cable box
- You have a MiniDisc or DAT player
- You have components that are inside closed cabinets
- You used a CONTROL-S wire to hook up any of the following:
 - TV
 - AV receiver
 - CD player
 - Cassette player
- You used an IR Repeater to hook up any of the following:
 - VCR
 - Laserdisc player
- Your laserdisc player's remote control does not have a **POWER** button
- Your CD or cassette player's remote control has a **POWER** button
- You hooked up components using inputs that are different from the standard settings indicated on the Setup Checklist.

This section is extracted from instruction manual (Setup and Operation).

The AV Controller's Setup program is a series of screens that are displayed on your TV. You use the Setup program to describe your entertainment system and the way you've hooked up each component. The AV Controller uses this information to “remember” the way your system is hooked up so it can send the correct commands to your components when you press buttons on the AV Controller's remote commander.

To start the Setup program:

- 1 Aim the remote commander at the AV Controller and press the **SYSTEM OFF** button.

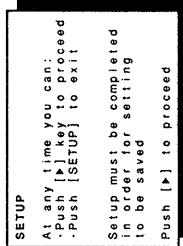


- 2 Slide open the AV Controller's remote commander, and locate the two **SETUP** buttons. Then press both **SETUP** buttons at the same time.

The AV Controller automatically turns on the TV, and the “Setup” screen is displayed.

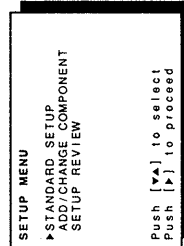
To continue, just follow the on-screen instructions. Press the **▶** button to proceed to the “Setup Menu.”

If the “Setup” screen is not displayed, the AV Controller is probably not connected to the TV's VIDEO1 input. Make sure the AV Controller is connected to VIDEO1.



- 3 Once you've advanced to the “Setup Menu,” you can select from three options by moving the cursor (**▷**) by pressing the **▲** and **▼** buttons and then pressing the **▶** button.

Standard Setup: Select this option if you're setting up your system for the first time, or if you want to return the AV Controller to the Standard Setup (from the Setup Checklist). See page 4 for details.



- **Add/Change Components:** Select this option to add a new component to your system, or if you need to change the setup of one or more of your components from the Standard Setup. See page 5 for details.

- **Setup Review:** Select this option to review the way your system's components are currently set up. (Note that “Setup Review” only displays the way you've described your components in the Setup program; it does not automatically show the way your components are actually hooked up.)

Use “Add/Change Component” to make setup review agree with the way your components are actually hooked up.

Standard Setup

"Standard Setup" lets you set up all your system's components in one step. When you select this option, the AV Controller is set up to use the Standard Checklist, which is defined by the **white-on-black** descriptions on the Setup Checklist.

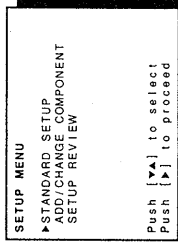
If you're setting up your system for the first time, it's probably easiest to first select "Standard Setup." Then, if your system differs from the Standard Setup description, you can change your system's setup by using the "Add/Change Component" option, which you can select after you've run "Standard Setup."

To set up your system using "Standard Setup":

Start the Setup program and advance to the "Setup Menu," as described in "Starting Setup" on page 3.

Then select "Standard Setup."

To select an item, press the **▲** or **▼** button to highlight the item. Then press the **▶** button.



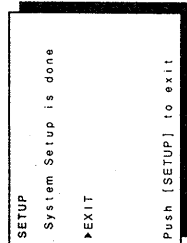
Where Do I Go Next?

After you've selected "Standard Setup" a screen appears which asks if you have a cable box to set up. If you select "yes", a series of screens appears, which will set up your cable box. To complete the setup of your cable box, just follow the on-screen instructions. If you don't have a cable box, just select "NO."

If problems occur during Cable Box Setup, see "Troubleshooting" on page 10.

After Cable Box Setup, you can either exit Setup or go to "Add/Change Component." At this point, you need to check your completed Setup Checklist. If your system hookups differ from the Standard Setup (if you checked off options other than those that appear in **white-on-black**), select "Go to Add/Change Component," and then go to step 2 of "Add/Change Component" on page 5 to continue.

If your system matches the Standard Setup descriptions on the Setup Checklist, select "Exit." When the message, "System Setup is done" appears, press both **SETUP** buttons at the same time to exit the Setup program and save your settings. Then see "Using the AV Controller" on page 6.



Add/Change Component

"Add/Change Component" lets you set up each component of your system — one component at a time.

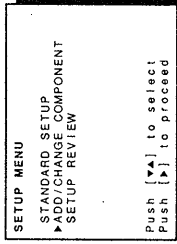
If you're setting up your system for the first time, you'll probably find it easiest to first set up your system using "Standard Setup," and then use "Add/Change Component" to change only the setup of components that are not hooked up using the Standard Setup. (The Standard Setup is defined by the **white-on-black** descriptions on the Setup Checklist.)

To set up your system using "Add/Change Component":

1 Start the Setup program and advance to the "Setup Menu," as described in "Starting Setup" on page 3.

Then select "Add/Change Component."

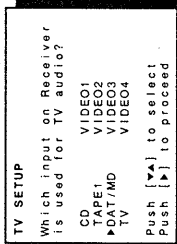
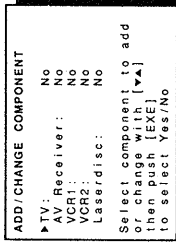
To select an item, press the **▲** or **▼** button to highlight the item. Then press the **▶** button.



2 The first page of the "Add/Change Component" screen appears. To go to the next page (to see more components), press the **▶** button.

To add a component to your system, or to change the setup of an existing component, select the component's name and press the **EXE** button to change "No" to "Yes." Then press the **▶** button to advance to the first page of the Setup screen for the component you selected. (For example, the first page of the "TV Setup" screen is shown at right.)

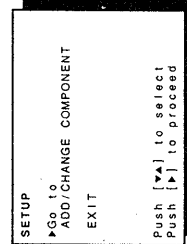
To complete the setup of the component, just follow the on-screen instructions, and use your completed Setup Checklist to respond to the on-screen questions. When the message, "setup is done" appears, press the **▶** button to continue.



Where Do I Go Next?

To set up another component, select "Go to Add/Change Component" and repeat step 2.

If you're finished setting up your components, select "Exit." When the message, "System Setup is done" appears, press both **SETUP** buttons at the same time to exit the Setup program and save your settings.



Using the AV Controller

After you've hooked up and set up your components, you're ready to start using the AV Controller to operate your entertainment system.

The AV Controller's remote commander controls most of the functions of a Sony home entertainment system. The outside panel contains buttons for most of the primary operations. The inside panel, which you can access by sliding open the front panel, contains many of the buttons you'll find on your components' original remote controls.

Note

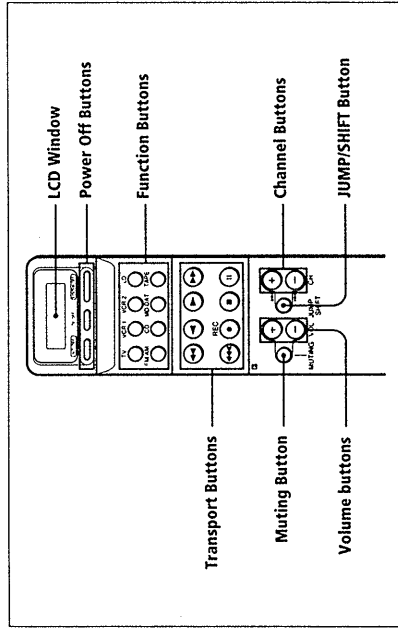
For some of the more advanced features of your components, you'll need to use the component's original remote control. Also, the functions of the AV Controller are limited to the functions of the components themselves; it will not increase the functionality of any components. For example, if your TV does not have the Picture-in-Picture feature, the PIP buttons on the AV remote commander will not function with your TV.

Point the remote commander at the:

- **AV Controller:** to select component to operate. (using the Function buttons); to operate components hooked up with a CONTROL-S wire; to operate cable boxes; to operate all components that are inside closed cabinets
- **Individual component:** to operate components that are hooked up using an IR Repeater (point directly at the component's IR Repeater)
- **AV Receiver:** to control volume and power on/off for all components

Outside Panel Buttons

The outside panel buttons are illustrated below and described in detail on the following pages. (The Function buttons and the **SYSTEM OFF** button are also on the front panel of the AV Controller. These buttons function the same as they do on the remote commander.)



Note

When the front panel is open, none of the front-panel buttons operate — except the **UNIT OFF**, **TV OFF**, and **SYSTEM OFF** buttons.

Powering On Components

To power on a component:

- Press the Function button for the component you want to power on. The AV Controller automatically powers on the component you selected, along with the AV receiver, and sets the appropriate inputs. For example, when you press the **CD** button, the AV Controller automatically turns on the CD player and the AV receiver, and sets the AV receiver's input to the CD player.

Operating Components

To operate a component:

- Press the Function button for the component you want to operate. The component's name is displayed in the Remote Commander's LCD window. Buttons you press on the Remote Commander operate the component whose name appears in the LCD window.

For example, when you press the **CD** button, "CD" is displayed in the LCD window. Pressing the **▶** button will begin play.

Note

Some function-specific buttons operate certain components regardless of the component name displayed in the LCD window. See the description on pages 8 and 9 for details.

Powering Off the System

To power off all the components in your system:

- Press the **SYSTEM OFF** button.

Powering Off Individual Components

To power off any individual component:

- 1 Press the **UNIT OFF** button.
- 2 Press the Function button of the component you want to turn off. (You must press this button within five seconds of pressing **UNIT OFF**.)

For example, to turn off the CD player, press the **UNIT OFF** button, and then press the **CD** button.

Notes

- To turn off the TV, you can just press the TV OFF button.
- If you have a MiniDisc player, model MDS-101, you must use this component's original remote control to power it on and off.

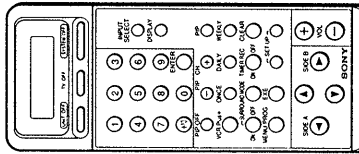
Outside Panel Buttons

Button	Function
UNIT OFF	Powers off individual components (used with Function buttons)
TV OFF	Powers off the TV
SYSTEM OFF	Powers off all components

Button	Powers On	Switches Input To
TV	AV receiver, TV	TV
VCR1	AV receiver, TV, VCR1	VCR1
VCR2	AV receiver, TV, VCR2	VCR2
LD	AV receiver, TV, Laserdisc	LDP
FM/AM	AV receiver	FM/AM
CD	AV receiver, CD player	CD
MD/DAT	AV receiver, MiniDisc or DAT	MD or DAT
TAPE	AV receiver and tape and tape player	TAPE

Button	Operates	Function
◀◀	VCR	Reverse scan
	LDP	Reverse scan
	CD	Reverse scan
	TAPE	Reverse scan
	MD/DAT	Reverse scan
◀	TAPE	Change tape direction
	VCR	Play
▶	LDP	
	CD	
	TAPE	
	MD/DAT	
▶▶	VCR	Fast-forward, forward scan
	LDP	Forward scan
	CD	Forward scan
	TAPE	Fast-forward
	MD/DAT	Forward scan

Inside Panel Buttons



Button	Operates	Function
PIP (ON)	TV	Picture-in-Picture operation buttons (Works in any component mode)
PIP CH +		
PIP CH -		
PIP OFF		
VCR +	VCR	VCR plus recording buttons (only for Sony VCR's equipped with this feature)
ONCE		
DAILY		
WEEKLY		
TIMER REC	VCR	Timer activated recording button
CLEAR	TV	Reset
	VCR	
	LDP	Program clear
	CD	
	MD/DAT	
SURROUND MODE	AV Receiver	Surround mode selector (Works in any component mode)
SURROUND MODE ON/OFF		Surround mode on/off (Works in any component mode)
MENU/PROG	TV	Menu
	VCR	
	LDP	Program
	CD	
	MD/DAT	
EXE	LDP	Program execute
	CD	
	MD/DAT	
SET UP	AV Controller	Displays Setup Program
▲▲	AV Controller	Cursor up/down
	TV	Menu cursor up/down
	VCR	
◀◀ SIDE A	VCR	Cursor left
	LDP	Selects side A
▶▶ SIDE B	VCR	Cursor right
	LDP	Selects side B
VOL +/-	AV Receiver	Volume up/down (Works in any component mode)

Button	Operates	Function
1 - 9, 0	TV (or Cable Box)	Program or channel number
	VCR (or Cable Box)	
	LDP	Chapter/Track number
	CD	Track number
	MD/DAT	
+10	LDP	Chapter/Track number
	CD	Track or channel number
	MD/DAT	
ENTER	TV	Menu or channel enter
	VCR	
	LDP	Program enter
	CD	
	MD/DAT	
INPUT SELECT	TV	Input select
DISPLAY	TV	On-screen display
	VCR	
	LDP	
	MD/DAT	

Trouble shooting

If you hooked up or set up any of your components incorrectly, you may be having problems using your entertainment system, including powering on/off components, or getting components to respond correctly to the AV Controller's Remote Commander. If you're experiencing these problems, try following these suggestions.

General Problems

If you're having problems operating any of your components, check the following:

- Make sure that all your components are set up (in the Setup Review on-screen display) the same way they are actually hooked up. First, make sure you've hooked up each component as described in Booklets 2 through 4. Use the Setup Checklist to record the way you've hooked up each component. Next, start the Setup program and select "Setup Review". Check that the displayed Setup options for each component match the Setup Checklist. If they don't match, start the Setup program. Then select "Add/Change Component," and then the name of the component you want to change. Follow the on-screen instructions in Setup to change the settings to match your hookups. When the message, "Setup is done" appears, press both **SETUP** buttons to exit Setup.
- If you push a button on the AV Controller's remote commander and the component does not respond, point the remote directly at the component and press the button again. If the component still doesn't respond, point the remote at the AV Controller and press the button again.
- Check the position of the IR Repeaters on each component. The IR Repeater should be positioned as close as possible to the component's IR window. (See Booklet 4.)
- If you're using an IR Repeater for components that are inside a closed cabinet, each component must have its own individual IR Repeater and be connected to its respective IR output jack on the AV Controller. (See Booklet 4.)

Setup Program Problems

If you're having problems getting the Setup program to start (to display on your TV screen), make sure you're aiming the remote commander at the AV Controller. First press the **SYSTEM OFF** button. Then press both **SETUP** buttons at the same time to start the Setup program. If you still cannot get the Setup program to start, check that the AV Controller is hooked up correctly, as described in Booklet 3. Check to make sure that the AV Controller is connected to the TV's VIDEO 1 input.

If you're having problems with components after you've changed their Setup in "Add/Change Component," it may be because you're exiting the Setup program prematurely. If you exit the Setup program before you see the message "Setup is done," your changes will not be saved.

If you've incorrectly changed the Setup of your components using "Add/Change Component" and you want to automatically reset all your components back to the Standard Setup, just select "Standard Setup" and follow the on-screen instructions. When the message "Setup is done" appears, press both **SETUP** buttons at the same time to exit Setup.

Power On/Off Problems

If you're having problems powering on/off components that have mechanical (push-in type) power switches:

- Make sure these power switches are always set to the "on" position (pushed in). (See Booklet 4.)
- Check that each component's AC plug is connected to its respective AC-jack on the AV Controller. (See Booklet 4.)

If you're not receiving audio from the TV:

- Make sure you've connected the TV's audio out to one of the AV Receiver's audio in jacks. (See Booklet 3.) Also, make sure this hookup is correctly reflected in the Setup program.
- If your TV has both fixed and variable audio-in jacks, make sure you've used the fixed audio jacks. Also, make sure your TV's speakers are turned off. (See Booklet 3.)
- You should hear TV audio through the AV receiver and the system's loudspeakers, not the speakers on the TV. Volume on the AV controller remote controls the AV receiver volume, not the TV's.

If you're having problems with your cable box:

- Check that the IR Repeater is properly positioned over the cable box's IR window, and that it is connected to the AV Controller's CABLE IR Repeater output jack. Go through the "Cable Box Setup" procedure in "Standard Setup" or "Add/Change Component."

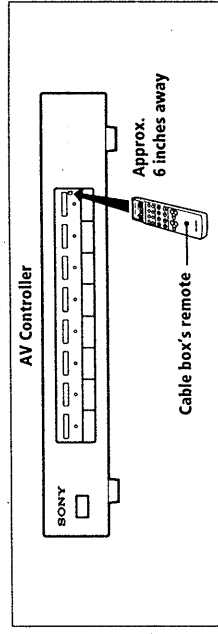
Note

Don't access "Cable Box Setup" through "Standard Setup" unless you also want to set up your components using the Standard Setup. To change only the setup of your cable box, select "Add/Change Component," and then "Cable Box."

- If the cable box still won't work, check with your cable company to see if they can provide you with a compatible box. (Some cable companies disable the IR capability of their boxes if you don't rent their specific remote control. Contact your cable company to make sure your cable box has its IR capability enabled.)

If you're having problems getting the AV Controller to memorize your cable box remote commands during Cable Box Setup, check the following:

- When prompted by Cable Box Setup, make sure you're holding your cable box remote directly in front of the IR sensor on the AV Controller's front panel, as shown below:



- Make sure the batteries in the cable box remote are not dead.
- If Cable Box Setup prompts you to press a button on your cable box remote that the remote does not have (such as **JUMP**), press the **EXE** button of the AV Controller's Remote Commander instead to continue memorizing your cable box remote commands.

- If the AV Controller seems to be operating your cable box erratically (such as changing to the wrong channel) after you've tried to get the AV Controller to memorize your cable box remote commands, start the Setup program, select "Add/Change Component" and then "Cable Box." As you memorize each button again, make sure you press the correct button on the cable box remote and that you press each button only once, as you're prompted by Cable Box Setup.

If you're having other problems using the AV Controller with your cable box, check the following:

- When operating the cable box, point the remote at the AV Controller, not the cable box.
- The cable box should be placed away from the AV Controller. Do not place the cable box on top of the AV Controller.

If you're unable to set up your AV Controller after following these instructions, and your dealer is unable to help, call the Sony Customer Information Center at (201) 930-7669.

For Product Support ...

You must have completed the "Setup Checklist" and have the model numbers of your components in order for the Customer Information Center to be able to help you.

Important: You must record the information on this sheet as you hook up your system. It is not possible to set up the AV Controller without filling in this sheet.

Setup Checklist

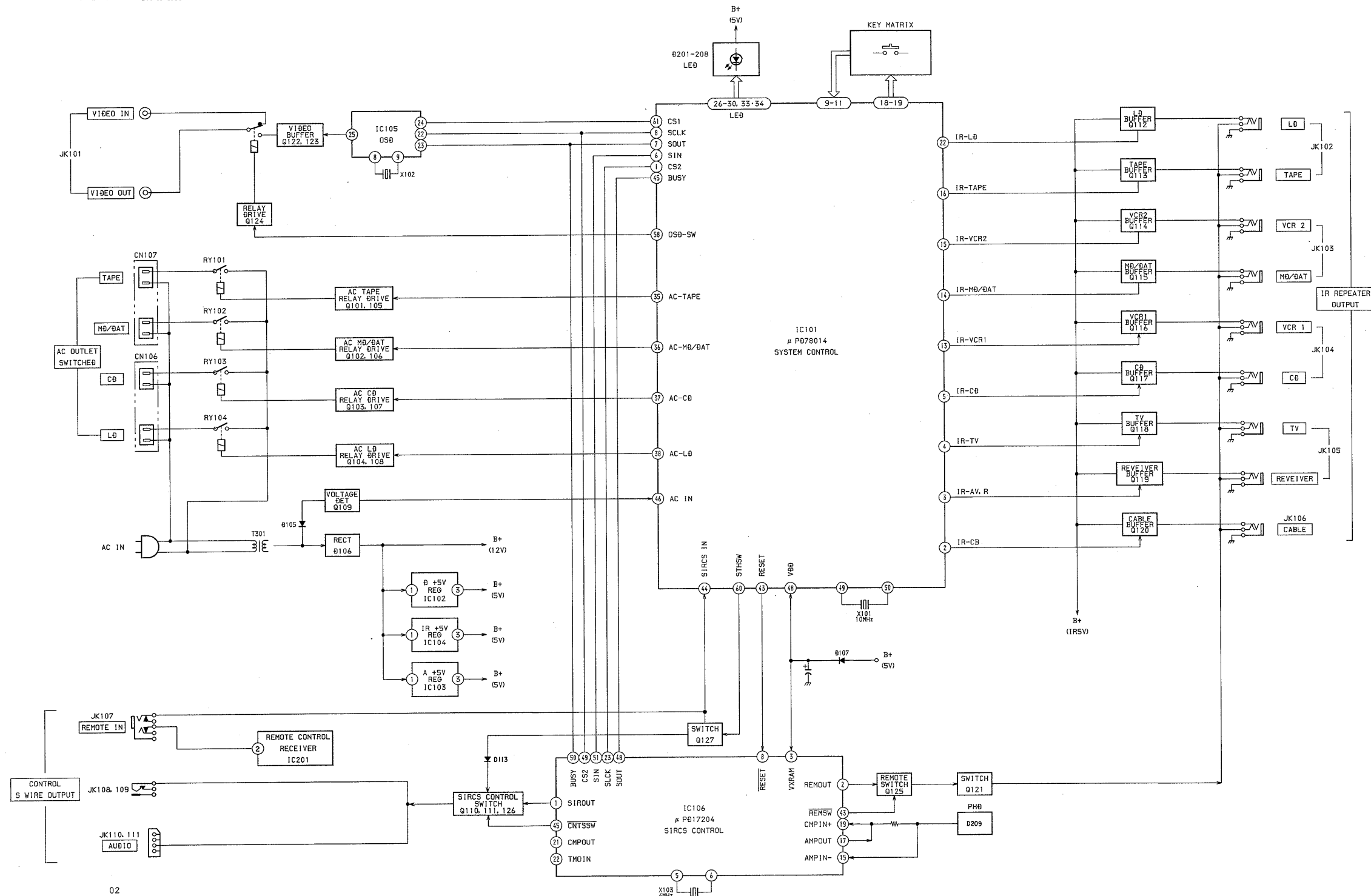
Standard system settings are indicated in white type on black background, as in this paragraph

Component	Connected To	Control Hookup	Cabinet	Other
TV AUDIO OUT	AV Receiver Input: ☐ MD/DAT	☐ Control-S cable or ☐ IR Repeater		Audio Is: ☐ Fixed ☐ Variable
VCR1 VIDEO/AUDIO OUT	Which component? ☐ TV or ☐ AV Receiver Which input? ☐ Video 1 or ☐ Video 2 or ☐ Video 3 or ☐ Video 4	☐ Control-S cable or ☐ IR Repeater	☐ Open or glass doors or ☐ Closed cabinet	
VCR2 VIDEO/AUDIO OUT	Which component? ☐ TV or ☐ AV Receiver Which input? ☐ Video 1 or ☐ Video 2 or ☐ Video 3 or ☐ Video 4	☐ Control-S cable or ☐ IR Repeater	☐ Open or glass doors or ☐ Closed cabinet	
Laser Disc Player (LDP) VIDEO/AUDIO OUT	Which component? ☐ TV or ☐ AV Receiver Which input? ☐ Video 1 or ☐ Video 2 or ☐ Video 3 or ☐ Video 4	☐ Control-S cable or ☐ IR Repeater	☐ Open or glass doors or ☐ Closed cabinet	LDP's remote has power button? ☐ Yes or ☐ No
Cable TV Converter (Cable Box) OUTPUT	Which component? ☐ TV and/or ☐ VCR1 and/or ☐ VCR2 and/or ☐ None	☐ IR Repeater		Cable box output channel? ☐ Ch 2 or ☐ Ch 3 or ☐ Ch 4
Audio/Video Receiver VIDEO OUT (MONITOR OUT)	AV receiver to AV Controller to TV input: ☐ Video 1 or ☐ Video 2 or ☐ (other)	☐ Control-S cable or ☐ IR Repeater	☐ Open or glass doors or ☐ Closed cabinet	
Compact Disc Player AUDIO OUT	AV Receiver Input: ☐ CD or ☐ (other)	☐ Control-S cable or ☐ IR Repeater	☐ Open or glass doors or ☐ Closed cabinet	CD's remote has power button? ☐ Yes or ☐ No
Cassette (Audio Tape) Player AUDIO IN/OUT	AV Receiver Input: ☐ Tape 1 or ☐ (other)	☐ Control-S cable or ☐ IR Repeater	☐ Open or glass doors or ☐ Closed cabinet	Tape's remote has power button? ☐ Yes or ☐ No
MiniDisc Player* AUDIO IN/OUT	AV Receiver Input: ☐ MD/DAT or ☐ (other)	☐ Control-S cable or ☐ IR Repeater	☐ Open or glass doors or ☐ Closed cabinet	MD's remote has power button? ☐ Yes or ☐ No
Digital Audio Tape (DAT) Player AUDIO IN/OUT	AV Receiver Input: ☐ MD/DAT or ☐ (other)	☐ Control-S cable or ☐ IR Repeater	☐ Open or glass doors or ☐ Closed cabinet	DAT's remote has power button? ☐ Yes or ☐ No

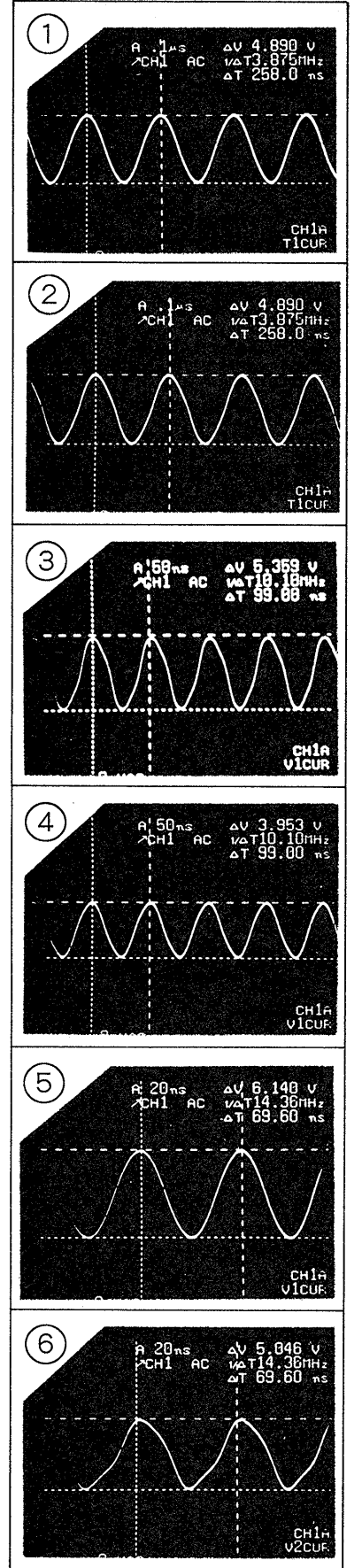
* If you use the MD/DAT input for an MD/DAT player, you must connect the TV AUDIO to a different input (CD, VIDEO 1, 2, or 3) that is not being used.

SECTION 2 DIAGRAMS

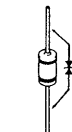
2-1. BLOCK DIAGRAM



• WAVEFORMS



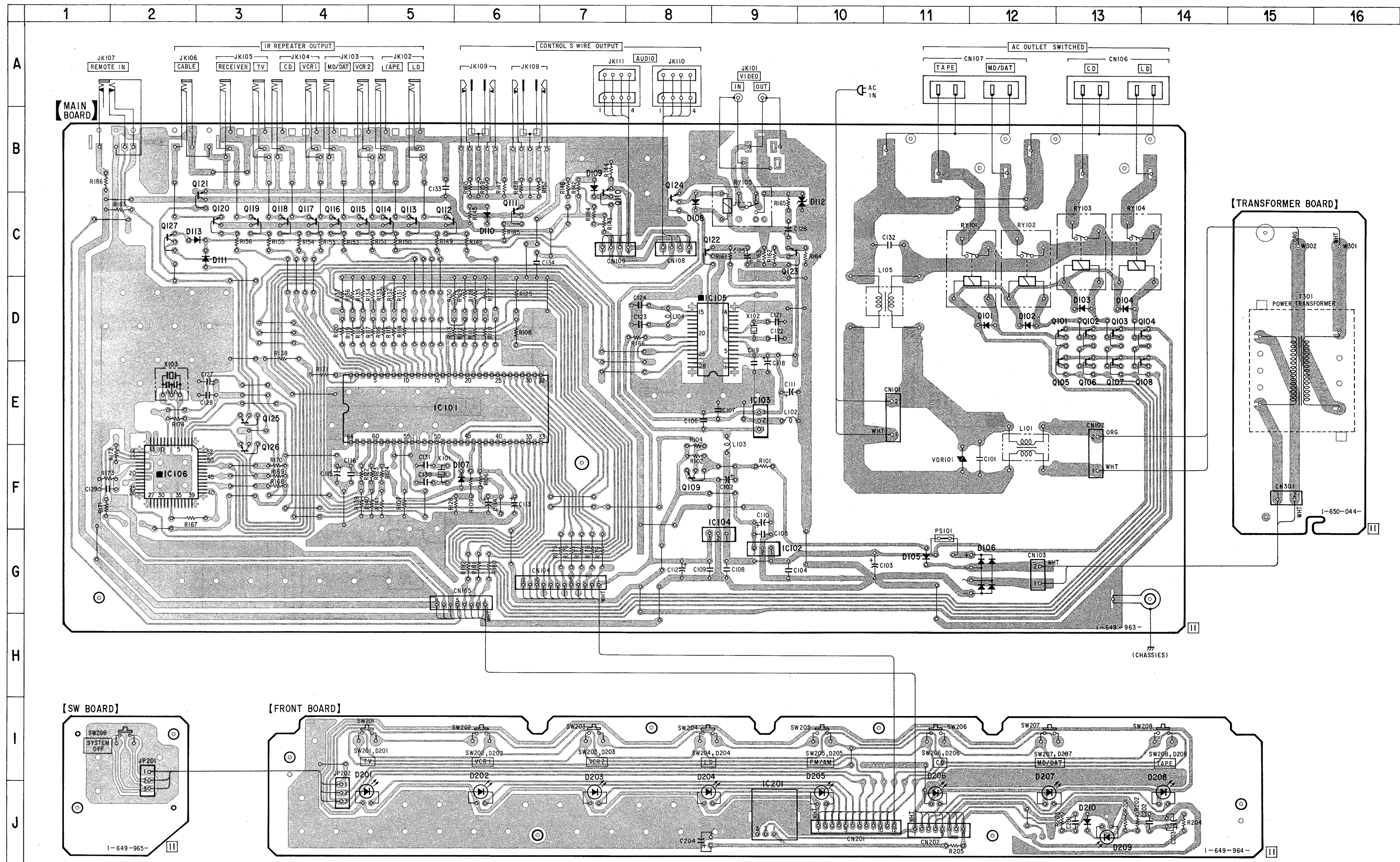
- : parts extracted from the component side.
- : Pattern on the side which is seen.

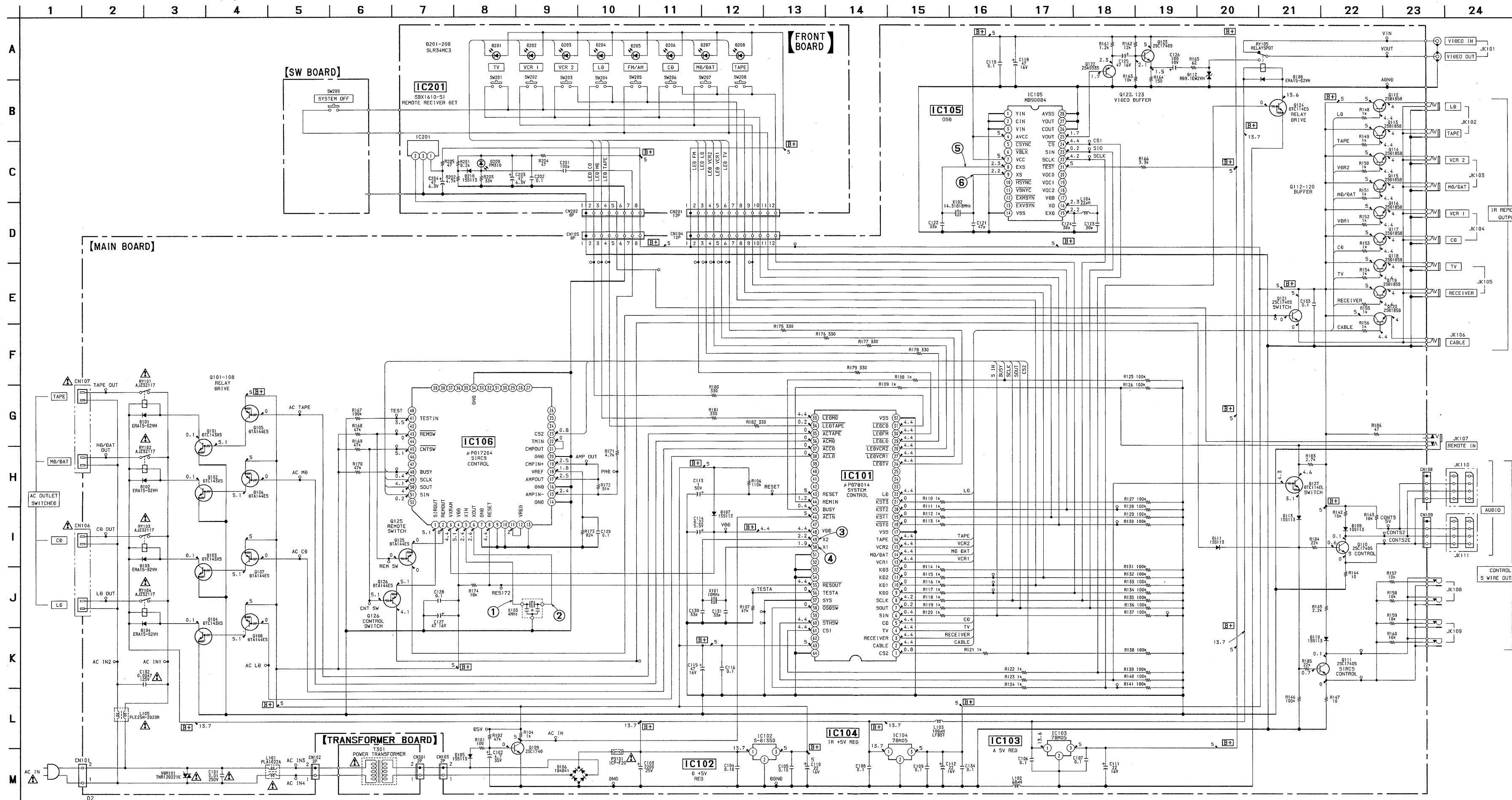


Note:

-  : parts extracted from the component side.
-  : Pattern on the side which is seen.

【SW BOARD】





Note :

- All capacitors are in μ F unless otherwise noted. pF: μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.
- % : indicates tolerance.
- Δ : internal component.

Note : The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

• $B+$: B+ Line

- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance $10M \Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.

SECTION 3 EXPLODED VIEW

NOTE :

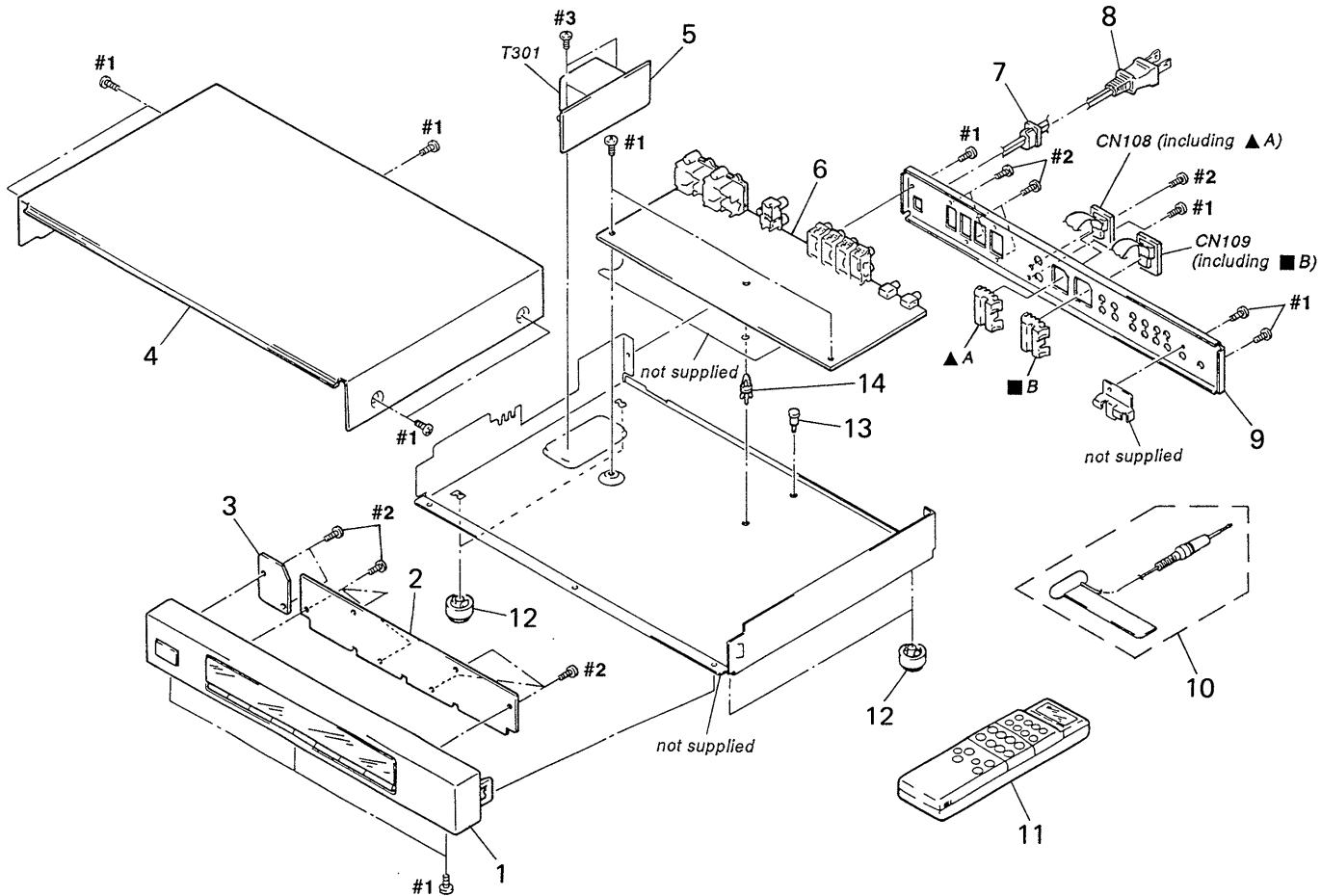
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Color indication of Appearance Parts
Example :
KNOB, BALANCE (WHITE)....(RED)

KNOB, BALANCE (WHITE)....(RED)

Parts color	Cabinet's color
-------------	-----------------

- Items marked “ * ” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark)list is given in the last of this parts list.

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	A-4540-229-A	PANEL ASSY, FRONT		11	1-467-530-11	COMMANDER, MASTER (RM-SC100)	
* 2	1-649-964-11	FRONT BOARD		12	X-3701-069-4	FOOT ASSY, M. F	
* 3	1-649-965-11	SW BOARD		* 13	4-961-954-01	HOLDER (A), PC BOARD	
* 4	4-961-960-01	BONNET		* 14	4-961-955-01	HOLDER (B), PC BOARD	
* 5	1-650-044-11	TRANSFORMER BOARD		CN108	1-559-135-41	CORD (WITH CONNECTOR) (including JK110) (CONTROL S WIRE OUTPUT, AUDIO)	
* 6	A-4542-176-A	MAIN BOARD, COMPLETE		CN109	1-559-135-41	CORD (WITH CONNECTOR) (including JK111) (CONTROL S WIRE OUTPUT, AUDIO)	
* 7	3-703-244-00	BUSHING (2104), CORD		△T301	1-450-087-11	TRANSFORMER, POWER	
△ 8	1-551-478-00	CORD, POWER					
* 9	4-961-957-01	PANEL, REAR					
* 10	1-467-412-11	REPEATER, IR (RM-IR100)					

SECTION 4 ELECTRICAL PARTS LIST

FRONT

MAIN

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms
METAL : Metal-film resistor
METAL OXIDE : Metal oxide-film resistor
F : nonflammable

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u : μ , for example :
uA..... : μ A....., uPA..... : μ PA.....
uPB..... : μ PB....., uPC..... : μ PC.....
uPD..... : μ PD.....
- CAPACITORS
uF : μ F
- COILS
uH : μ H

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref.No.	Part No.	Description	Remark			
*	1-649-964-11	FRONT BOARD *****				
		< CAPACITOR >				
C201	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C202	1-164-159-11	CERAMIC	0.1uF		50V	
C203	1-126-154-11	ELECT	47uF	20%	6.3V	
C204	1-126-154-11	ELECT	47uF	20%	6.3V	
		< DIODE >				
D201	8-719-940-82	LED SLR-34MC3 (TV)				
D202	8-719-940-82	LED SLR-34MC3 (VCR1)				
D203	8-719-940-82	LED SLR-34MC3 (VCR2)				
D204	8-719-940-82	LED SLR-34MC3 (LD)				
D205	8-719-940-82	LED SLR-34MC3 (FM/AM)				
D206	8-719-940-82	LED SLR-34MC3 (CD)				
D207	8-719-940-82	LED SLR-34MC3 (MD/DAT)				
D208	8-719-940-82	LED SLR-34MC3 (TAPE)				
D209	8-719-124-13	DIODE PH310				
D210	8-719-901-33	DIODE 1SS133				
		< IC >				
IC201	8-741-100-71	IC SBX1610-51				
		< RESISTOR >				
R201	1-249-428-11	CARBON	8.2K	5%	1/4W	
R202	1-249-425-11	CARBON	4.7K	5%	1/4W	
R203	1-249-435-11	CARBON	33K	5%	1/4W	
R204	1-249-401-11	CARBON	47	5%	1/4W	
R205	1-249-401-11	CARBON	47	5%	1/4W	
		< SWITCH >				
SW201	1-692-869-11	SWITCH, TACT (TV)				
SW202	1-692-869-11	SWITCH, TACT (VCR1)				
SW203	1-692-869-11	SWITCH, TACT (VCR2)				
SW204	1-692-869-11	SWITCH, TACT (LD)				
SW205	1-692-869-11	SWITCH, TACT (FM/AM)				

Ref.No.	Part No.	Description	Remark			
SW206	1-692-869-11	SWITCH, TACT (CD)				
SW207	1-692-869-11	SWITCH, TACT (MD/DAT)				
SW208	1-692-869-11	SWITCH, TACT (TAPE)				

*	A-4542-176-A	MAIN BOARD, COMPLETE *****				
		< CAPACITOR >				
Δ C101	1-161-744-51	CERAMIC	0.01uF		400V	
C102	1-124-927-11	ELECT	4.7uF	20%	100V	
C103	1-124-563-11	ELECT	2200uF	20%	25V	
C104	1-164-159-11	CERAMIC	0.1uF		50V	
C105	1-164-159-11	CERAMIC	0.1uF		50V	
C106	1-164-159-11	CERAMIC	0.1uF		50V	
C107	1-164-159-11	CERAMIC	0.1uF		50V	
C108	1-164-159-11	CERAMIC	0.1uF		50V	
C109	1-164-159-11	CERAMIC	0.1uF		50V	
C110	1-124-916-11	ELECT	22uF	20%	63V	
C111	1-124-916-11	ELECT	22uF	20%	63V	
C112	1-124-916-11	ELECT	22uF	20%	63V	
C113	1-124-903-11	ELECT	1uF	20%	50V	
C114	1-125-507-11	CAP, DOUBLE LAYERS	0.22F			
C115	1-124-477-11	ELECT	47uF	20%	25V	
C116	1-164-159-11	CERAMIC	0.1uF		50V	
C118	1-124-477-11	ELECT	47uF	20%	25V	
C119	1-164-159-11	CERAMIC	0.1uF		50V	
C121	1-101-880-00	CERAMIC	47PF	5%	50V	
C122	1-102-518-11	CERAMIC	33PF	5%	50V	
C123	1-102-962-00	CERAMIC	30PF	5%	50V	
C124	1-102-962-00	CERAMIC	30PF	5%	50V	
C125	1-124-477-11	ELECT	47uF	20%	25V	
C126	1-124-443-00	ELECT	100uF	20%	10V	
C127	1-124-477-11	ELECT	47uF	20%	25V	
C128	1-164-159-11	CERAMIC	0.1uF		50V	
C129	1-164-159-11	CERAMIC	0.1uF		50V	
C130	1-102-518-11	CERAMIC	33PF	5%	50V	

MAIN

Ref.No.	Part No.	Description	Remark
C131	1-102-518-11	CERAMIC 33PF 5% 50V	
△C132	1-161-743-00	CERAMIC 0.0047uF 400V	
C133	1-164-159-11	CERAMIC 0.1uF 50V	
C134	1-164-159-11	CERAMIC 0.1uF 50V	
< CONNECTOR >			
* CN101	1-764-502-11	POST (WITH BASE)	
* CN102	1-764-502-11	POST (WITH BASE)	
* CN104	1-750-270-11	PIN, CONNECTOR 12P	
* CN105	1-569-995-11	PIN, CONNECTOR (PC BOARD) 8P	
△CN106	1-540-060-21	OUTLET, AC (POLAR) (CD, LD)	
△CN107	1-540-060-21	OUTLET, AC (POLAR) (TAPE, MD/DAT)	
CN108	1-559-135-41	CORD (WITH CONNECTOR) (including JK110) (CONTROL S WIRE OUTPUT, AUDIO)	
CN109	1-559-135-41	CORD (WITH CONNECTOR) (including JK111) (CONTROL S WIRE OUTPUT, AUDIO)	
< DIODE >			
D101	8-719-975-89	DIODE ERA15-02TP3	
D102	8-719-975-89	DIODE ERA15-02TP3	
D103	8-719-975-89	DIODE ERA15-02TP3	
D104	8-719-975-89	DIODE ERA15-02TP3	
D105	8-719-901-33	DIODE 1SS133	
D106	8-719-801-39	DIODE 1B4B41	
D107	8-719-901-33	DIODE 1SS133	
D108	8-719-975-89	DIODE ERA15-02TP3	
D109	8-719-901-33	DIODE 1SS133	
D110	8-719-901-33	DIODE 1SS133	
D111	8-719-901-33	DIODE 1SS133	
D112	8-719-108-12	DIODE RD9.1E-W	
D113	8-719-901-33	DIODE 1SS133	
< IC >			
IC101	8-759-254-46	IC uPD78014CW-054	
IC102	8-759-502-36	IC S-81350HG	
IC103	8-759-938-15	IC BA178M05	
IC104	8-759-938-15	IC BA178M05	
IC105	8-759-089-80	IC MB90084PF-128	
IC106	8-759-254-47	IC uPD17204GC-528-3BH	
< JACK >			
JK101	1-764-497-11	JACK, PIN (VIDEO IN/OUT)	
JK102	1-764-498-11	JACK, MINIATURE (IR REPEATER OUTPUT, LD, TAPE)	
JK103	1-764-498-11	JACK, MINIATURE (IR REPEATER OUTPUT, VCR2, MD/DAT)	
JK104	1-764-498-11	JACK, MINIATURE (IR REPEATER OUTPUT, VCR1, CD)	

Ref.No.	Part No.	Description	Remark
JK105	1-764-498-11	JACK, MINIATURE (IR REPEATER OUTPUT, TV, RECEIVER)	
JK106	1-764-499-11	JACK, MINIATURE (IR REPEATER OUTPUT, CABLE)	
JK107	1-764-500-11	JACK, MINIATURE (REMOTE IN)	
JK108	1-764-501-11	JACK, MINIATURE (CONTROL S WIRE OUTPUT)	
JK109	1-764-501-11	JACK, MINIATURE (CONTROL S WIRE OUTPUT)	
JK110	1-559-135-41	CORD (WITH CONNECTOR) (including CN108) (CONTROL S WIRE OUTPUT, AUDIO)	
JK111	1-559-135-41	CORD (WITH CONNECTOR) (including CN109) (CONTROL S WIRE OUTPUT, AUDIO)	
< COIL >			
△L101	1-421-935-11	L. F. T	
L102	1-410-519-11	INDUCTOR 68uH	
L103	1-408-421-00	INDUCTOR 100uH	
L104	1-408-413-00	INDUCTOR 22uH	
△L105	1-403-613-11	COIL, COMMON MODE	
< IC LINK >			
△PS101	1-532-685-21	LINK, IC ICP-F20	
< TRANSISTOR >			
Q101	8-729-901-57	TRANSISTOR DTC143XS	
Q102	8-729-901-57	TRANSISTOR DTC143XS	
Q103	8-729-901-57	TRANSISTOR DTC143XS	
Q104	8-729-901-57	TRANSISTOR DTC143XS	
Q105	8-729-900-65	TRANSISTOR DTA144ES	
Q106	8-729-900-65	TRANSISTOR DTA144ES	
Q107	8-729-900-65	TRANSISTOR DTA144ES	
Q108	8-729-900-65	TRANSISTOR DTA144ES	
Q109	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q110	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q111	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q112	8-729-931-14	TRANSISTOR 2SD1858-Q-TV2	
Q113	8-729-931-14	TRANSISTOR 2SD1858-Q-TV2	
Q114	8-729-931-14	TRANSISTOR 2SD1858-Q-TV2	
Q115	8-729-931-14	TRANSISTOR 2SD1858-Q-TV2	
Q116	8-729-931-14	TRANSISTOR 2SD1858-Q-TV2	
Q117	8-729-931-14	TRANSISTOR 2SD1858-Q-TV2	
Q118	8-729-931-14	TRANSISTOR 2SD1858-Q-TV2	
Q119	8-729-931-14	TRANSISTOR 2SD1858-Q-TV2	
Q120	8-729-931-14	TRANSISTOR 2SD1858-Q-TV2	
Q121	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q122	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q123	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q124	8-729-024-71	TRANSISTOR DTC114GST	
Q125	8-729-900-65	TRANSISTOR DTA144ES	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q126	8-729-900-65	TRANSISTOR	DTA144ES	R148	1-249-417-11	CARBON	1K 5% 1/4W
Q127	8-729-024-72	TRANSISTOR	DTC114ELT	R149	1-249-417-11	CARBON	1K 5% 1/4W
< RESISTOR >				R150	1-249-417-11	CARBON	1K 5% 1/4W
R101	1-247-807-31	CARBON	100 5% 1/4W	R151	1-249-417-11	CARBON	1K 5% 1/4W
R102	1-249-437-11	CARBON	47K 5% 1/4W	R152	1-249-417-11	CARBON	1K 5% 1/4W
R104	1-249-417-11	CARBON	1K 5% 1/4W	R153	1-249-417-11	CARBON	1K 5% 1/4W
R106	1-247-880-11	CARBON	110K 5% 1/4W	R154	1-249-417-11	CARBON	1K 5% 1/4W
R107	1-249-437-11	CARBON	47K 5% 1/4W	R155	1-249-417-11	CARBON	1K 5% 1/4W
R108	1-249-417-11	CARBON	1K 5% 1/4W	R156	1-249-417-11	CARBON	1K 5% 1/4W
R109	1-249-417-11	CARBON	1K 5% 1/4W	R157	1-249-429-11	CARBON	10K 5% 1/4W
R110	1-249-417-11	CARBON	1K 5% 1/4W	R158	1-249-429-11	CARBON	10K 5% 1/4W
R111	1-249-417-11	CARBON	1K 5% 1/4W	R159	1-249-429-11	CARBON	10K 5% 1/4W
R112	1-249-417-11	CARBON	1K 5% 1/4W	R160	1-249-429-11	CARBON	10K 5% 1/4W
R113	1-249-417-11	CARBON	1K 5% 1/4W	R161	1-249-418-11	CARBON	1. 2K 5% 1/4W
R114	1-249-417-11	CARBON	1K 5% 1/4W	R162	1-249-430-11	CARBON	12K 5% 1/4W
R115	1-249-417-11	CARBON	1K 5% 1/4W	R163	1-249-429-11	CARBON	10K 5% 1/4W
R116	1-249-417-11	CARBON	1K 5% 1/4W	R164	1-247-811-31	CARBON	150 5% 1/4W
R117	1-249-417-11	CARBON	1K 5% 1/4W	R165	1-247-802-11	CARBON	62 5% 1/4W
R118	1-249-417-11	CARBON	1K 5% 1/4W	R166	1-249-423-11	CARBON	3. 3K 5% 1/4W
R119	1-249-417-11	CARBON	1K 5% 1/4W	R167	1-249-441-11	CARBON	100K 5% 1/4W
R120	1-249-417-11	CARBON	1K 5% 1/4W	R168	1-249-437-11	CARBON	47K 5% 1/4W
R121	1-249-417-11	CARBON	1K 5% 1/4W F	R169	1-249-437-11	CARBON	47K 5% 1/4W
R122	1-249-417-11	CARBON	1K 5% 1/4W F	R170	1-249-437-11	CARBON	47K 5% 1/4W
R123	1-249-417-11	CARBON	1K 5% 1/4W F	R171	1-249-425-11	CARBON	4. 7K 5% 1/4W
R124	1-249-417-11	CARBON	1K 5% 1/4W F	R172	1-247-878-00	CARBON	91K 5% 1/4W
R125	1-249-441-11	CARBON	100K 5% 1/4W	R173	1-249-440-11	CARBON	82K 5% 1/4W
R126	1-249-441-11	CARBON	100K 5% 1/4W	R174	1-249-429-11	CARBON	10K 5% 1/4W
R127	1-249-441-11	CARBON	100K 5% 1/4W	R175	1-249-411-11	CARBON	330 5% 1/4W
R128	1-249-441-11	CARBON	100K 5% 1/4W	R176	1-249-411-11	CARBON	330 5% 1/4W
R129	1-249-441-11	CARBON	100K 5% 1/4W	R177	1-249-411-11	CARBON	330 5% 1/4W
R130	1-249-441-11	CARBON	100K 5% 1/4W	R178	1-249-411-11	CARBON	330 5% 1/4W
R131	1-249-441-11	CARBON	100K 5% 1/4W	R179	1-249-411-11	CARBON	330 5% 1/4W
R132	1-249-441-11	CARBON	100K 5% 1/4W	R180	1-249-411-11	CARBON	330 5% 1/4W
R133	1-249-441-11	CARBON	100K 5% 1/4W	R181	1-249-411-11	CARBON	330 5% 1/4W
R134	1-249-441-11	CARBON	100K 5% 1/4W	R182	1-249-411-11	CARBON	330 5% 1/4W
R135	1-249-441-11	CARBON	100K 5% 1/4W	R183	1-249-422-11	CARBON	2. 7K 5% 1/4W
R136	1-249-441-11	CARBON	100K 5% 1/4W	R184	1-249-433-11	CARBON	22K 5% 1/4W
R137	1-249-441-11	CARBON	100K 5% 1/4W	R185	1-249-433-11	CARBON	22K 5% 1/4W
R138	1-249-441-11	CARBON	100K 5% 1/4W	R186	1-249-401-11	CARBON	47 5% 1/4W
R139	1-249-441-11	CARBON	100K 5% 1/4W	< RELAY >			
R140	1-249-441-11	CARBON	100K 5% 1/4W	△RY101	1-515-974-11	RELAY	
R141	1-249-441-11	CARBON	100K 5% 1/4W	△RY102	1-515-974-11	RELAY	
R142	1-249-429-11	CARBON	10K 5% 1/4W	△RY103	1-515-974-11	RELAY	
R143	1-249-429-11	CARBON	10K 5% 1/4W	△RY104	1-515-974-11	RELAY	
R144	1-249-393-11	CARBON	10 5% 1/4W	RY105	1-515-614-11	RELAY	
R145	1-249-421-11	CARBON	2. 2K 5% 1/4W	< VARISTOR >			
R146	1-249-441-11	CARBON	100K 5% 1/4W	△VDR101	1-810-414-11	VARISTOR (TNR12G221K)	
R147	1-249-393-11	CARBON	10 5% 1/4W				

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

SW

TRANSFORMER

Ref. No.	Part No.	Description	Remark
< CRYSTAL >			
X101	1-760-176-11	OSCILLATOR, CERAMIC (10MHz)	
X102	1-760-175-11	OSCILLATOR, CRYSTAL (14.31818MHz)	
X103	1-577-082-11	VIBRATOR, CERAMIC (4MHz)	

*	1-649-965-11	SW BOARD	

< SWITCH >			
SW209	1-692-869-11	SWITCH, TACT (SYSTEM OFF)	

*	1-650-044-11	TRANSFORMER BOARD	

< TRANSFORMER >			
△T301	1-450-087-11	TRANSFORMER, POWER	

MISCELLANEOUS			

△8	1-551-478-00	CORD, POWER	
* 10	1-467-412-11	REPEATER, IR	
11	1-467-530-11	COMMANDER, MASTER (RM-SC100)	

ACCESSORIES & PACKING MATERIALS			

	1-751-974-11	CABLE, CONTROL (S)	
	3-757-804-21	BOOKLET (1) (READ THIS FIRST) (ENGLISH)	
	3-757-805-21	BOOKLET (2) (ANTENNA/CABLE HOOKUP)	
		(ENGLISH)	
	3-757-806-21	BOOKLET (3) (AV HOOKUP) (ENGLISH)	
	3-757-807-21	BOOKLET (4) (CONTROL HOOKUP) (ENGLISH)	
	3-757-808-21	BOOKLET (5) (SETUP and OPERATION)	
		(ENGLISH)	
*	4-950-766-01	LABEL, FCC DIGITAL DEVICE	
*	4-963-038-01	INDIVIDUAL CARTON	
*	4-963-039-01	CUSHION	

HARDWARE LIST			

#1	7-682-547-09	SCREW +BVTT 3X6 (S)	
#2	7-685-646-79	SCREW +P 3X8 TYPE2 NON-SLIT	
#3	7-682-548-04	SCREW +BVTT 3X8 (S)	

The components identified by
mark △ or dotted line with mark
△ are critical for safety.
Replace only with part number
specified.

SRC-100

SONY[®] SERVICE MANUAL

US Model

SUPPLEMENT-1

File this Supplement with the Service Manual.

Subject :

- CHANGE OF MAIN BOARD

(ENG-94010)

The main board have been changed.

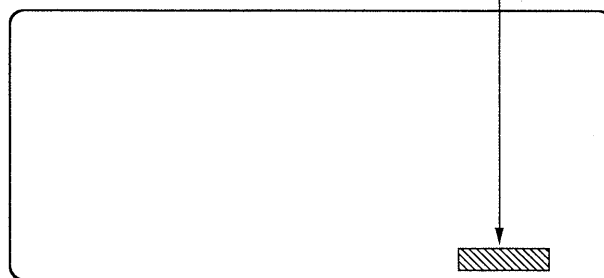
Printed wiring boards and schematic diagram of new type, and changed parts list are described in this supplement-1.

Refer to original service manual previously issued for the other information.

NEW TYPE IDENTIFICATION

— MAIN board (Component side) —

1-649-963-12 : New Type



1. CHANGED ELECTRICAL PARTS LIST

FRONT (Service Manual See page 27)

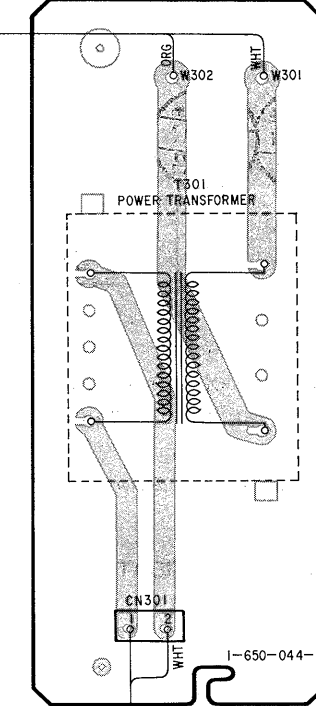
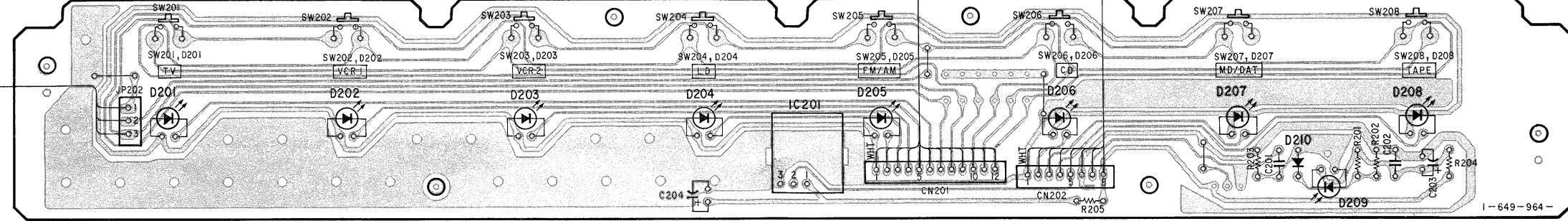
Ref. No.	Former Type						New Type						Remarks
	Part No.	Description					Part No.	Description					
C201	1-162-294-31	CERAMIC	0.001uF	10%	50V		1-102-106-00	CERAMIC	100PF	10%	50V		Changed

MAIN (Service Manual See page 27 – 29)

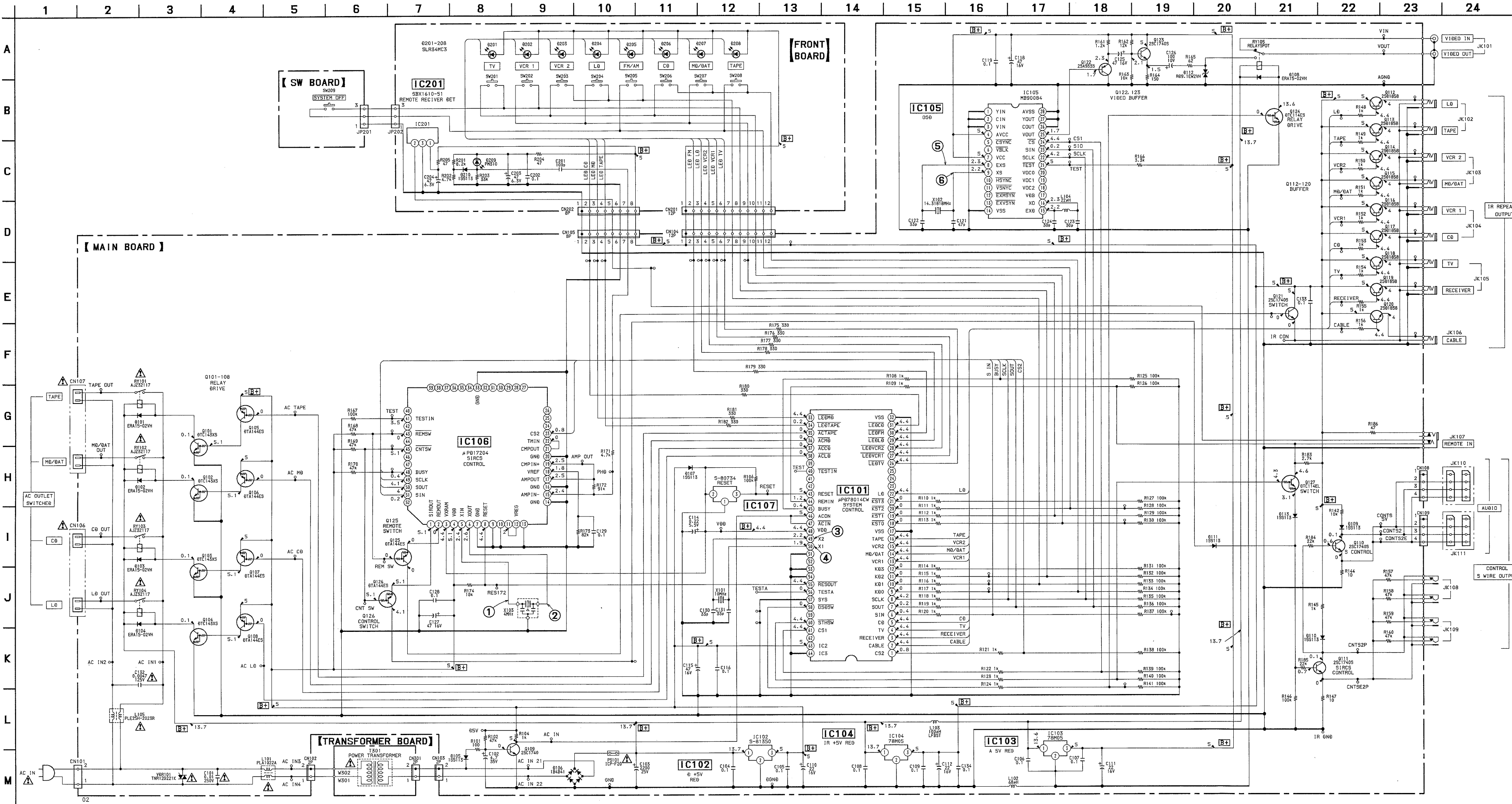
Ref. No.	Former Type						New Type						Remarks
	Part No.	Description					Part No.	Description					
C113	1-124-903-11	ELECT	1uF		50V								Deleted
C117							1-164-159-11	CERAMIC	0.1uF		50V		Added
C120							1-124-907-11	ELECT	10uF	20%	50V		Added
IC101	8-759-254-46	IC	μ PD78014CW-054				8-759-289-34	IC	μ PD78014CW-066				Changed
IC106	8-759-254-47	IC	μ PD17204GC-528-3BH				8-759-289-35	IC	μ PD17204GC-536-3BH				Changed
IC107							8-759-514-68	IC	S-80734AN-DY-S				Added
R106	1-247-880-11	CARBON	110K	5%	1/4W		1-249-441-11	CARBON	100K	5%	1/4W		Changed
R107	1-249-437-11	CARBON	47K	5%	1/4W								Deleted
R143	1-249-429-11	CARBON	10K	5%	1/4W								Deleted
R145	1-249-421-11	CARBON	2.2K	5%	1/4W		1-249-417-11	CARBON	1K	5%	1/4W		Changed
R157	1-249-429-11	CARBON	10K	5%	1/4W		1-249-437-11	CARBON	47K	5%	1/4W		Changed
R158	1-249-429-11	CARBON	10K	5%	1/4W		1-249-437-11	CARBON	47K	5%	1/4W		Changed
R159	1-249-429-11	CARBON	10K	5%	1/4W		1-249-437-11	CARBON	47K	5%	1/4W		Changed
R160	1-249-429-11	CARBON	10K	5%	1/4W		1-249-437-11	CARBON	47K	5%	1/4W		Changed

- SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D101	D-12	IC106	F-2
D102	D-12	IC107	F-6
D103	D-13	IC201	J-9
D104	D-13		
D105	G-11		
		Q101	D-13
D106	G-12	Q102	D-13
D107	F-6	Q103	D-13
D108	C-8	Q104	D-14
D109	B-7	Q105	E-13
D110	C-6		
		Q106	E-13
D111	C-3	Q107	E-13
D112	C-10	Q108	E-14
D113	C-3	Q109	F-8
D201	J-4	Q110	C-7
D202	J-6		
		Q111	C-6
D203	J-7	Q112	C-5
D204	J-8	Q113	C-5
D205	J-10	Q114	C-5
D206	J-11	Q115	C-4
D207	J-12		
		Q116	C-4
D208	J-14	Q117	C-4
D209	J-13	Q118	C-4
D210	J-13	Q119	C-3
		Q120	C-3
VDR101	F-11	Q121	B-3
		Q122	C-8
		Q123	C-9
IC101	E-5	Q124	C-8
IC102	G-9	Q125	E-3
IC103	E-9		
IC104	F-9	Q126	F-3
IC105	D-9	Q127	C-2



3. SCHEMATIC DIAGRAM



Note :

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
- % : indicates tolerance.
- Δ : internal component.

Note : The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

- $B+$: B+ Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.