FM Stereo
FM-AM Receiver

Operating Instructions

STR-DE975
STR-DE875

© 2001 Sony Corporation
WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

INFORMATION

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 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.

CAUTION

You are cautioned that any changes or modification not expressly approved in this manual could void your authority to operate this equipment.

Note to CATV system installer:
This reminder is provided to call CATV system installer’s attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Owner’s Record

The model and serial numbers are located on the rear of the unit. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. STR-DE975/DE875
Serial No. __________

For customers in Canada

CAUTION

TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

For customers in the United States and Canada

ENERGY STAR® is a U.S. registered mark.
As an ENERGY STAR® partner, Sony Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

Don’t throw a battery, dispose it as the injurious wastes.

On safety

• Should any solid object or liquid fall into the cabinet, unplug the receiver and have it checked by qualified personnel before operating it any further.
• To prevent fire, do not cover the ventilation of the receiver with newspapers, table cloths, curtains, etc. and don’t place lighted candles on the receiver.
• To prevent fire or shock hazards, do not place vases on the receiver.

On power sources

• Before operating the receiver, check that the operating voltage is identical with your local power supply. The operating voltage is indicated on the nameplate at the rear of the receiver.
• The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
• If you are not going to use the receiver for a long time, be sure to disconnect the receiver from the wall outlet. To disconnect the AC power cord, grasp the plug itself; never pull the cord.
• One blade of the plug is wider than the other for the purpose of safety and will fit into the wall outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
• AC power cord must be changed only at the qualified service shop.

On placement

• Place the receiver in a location with adequate ventilation to prevent heat buildup and prolong the life of the receiver.
• Do not place the receiver near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.
• Do not place anything on top of the cabinet that might block the ventilation holes and cause malfunctions.
• Although the receiver heats up during operation, this is not a malfunction. If you continuously use this receiver at a large volume, the cabinet temperature of the top, side and bottom rises accordingly. To avoid burning yourself, do not touch the cabinet.

On operation

Before connecting other components, be sure to turn off and unplug the receiver.

On cleaning

Clean the cabinet, panel and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

If you have any question or problem concerning your receiver, please consult your nearest Sony dealer.
About This Manual

The instructions in this manual are for the STR-DE975, and STR-DE875. Check your model number by looking at the lower right corner of the front panel or lower right corner of the remote. In this manual, the STR-DE975 and the remote commander RM-PP505 are used for illustration purposes unless stated otherwise. Any difference in operation is clearly indicated in the text, for example, “STR-DE975 only”.

Type of differences

<table>
<thead>
<tr>
<th>Feature</th>
<th>DE975</th>
<th>DE875</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 audio inputs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 audio inputs</td>
<td>✔</td>
<td></td>
</tr>
</tbody>
</table>

About area codes

The area code of the receiver you purchased is shown on the lower portion of the rear panel (see the illustration below).

Any differences in operation, according to the area code, are clearly indicate in the text, for example, “Models of area code AA only”.

Conventions

• The instructions in this manual describe the controls on the receiver. You can also use the controls on the supplied remote if they have the same or similar names as those on the receiver.
• The following icon is used in this manual:

![Icons](https://via.placeholder.com/150)

Indicates hints and tips for making the task easier.

This receiver incorporates Dolby* Digital and Pro Logic Surround and the DTS** Digital Surround System.

* Manufactured under license from Dolby Laboratories.
  “Dolby”, “Pro Logic” and the double-D symbol  are trademarks of Dolby Laboratories.
  Confidential unpublished Works. © 1992-1997 Dolby Laboratories. All rights reserved.

Hooking Up the Components

This chapter describes how to connect various audio and video components to the receiver. Be sure to read the sections for the components you have before you actually connect them to the receiver.

Unpacking

Check that you received the following items with the receiver:
- FM wire antenna (1)
- AM loop antenna (1)
- R6 (size-AA) batteries (2)
- Audio/video/control S connecting cord (1)
- Control S connecting cord (1)
- STR-DE975 only
  - Remote commander RM-PP505L (remote) (1)
- STR-DE875 only
  - Remote commander RM-PP505 (remote) (1)

Inserting batteries into the remote

Insert R6 (size-AA) batteries with the + and – properly oriented in the battery compartment. When using the remote, point it at the remote sensor on the receiver.

력을 때리지 말고

When to replace batteries

Under normal conditions, the batteries should last for about 6 months. When the remote no longer operates the receiver, replace all batteries with new ones.

Notes
- Do not leave the remote in an extremely hot or humid place.
- Do not use a new battery with an old one.
- Do not expose the remote sensor to direct sunlight or lighting apparatuses. Doing so may cause a malfunction.
- If you don’t use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

Before you get started

- Turn off the power to all components before making any connections.
- Do not connect the AC power cords until all of the connections are completed.
- Be sure to make connections firmly to avoid hum and noise.
- When connecting an audio/video cord, be sure to match the color-coded pins to the appropriate jacks on the components: yellow (video) to yellow; white (left, audio) to white; and red (right, audio) to red.
Antenna Hookups

Terminals for connecting the antennas

<table>
<thead>
<tr>
<th>Connect the</th>
<th>To the</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM loop antenna</td>
<td>AM terminals</td>
</tr>
<tr>
<td>FM wire antenna</td>
<td>FM 75Ω COAXIAL terminal</td>
</tr>
</tbody>
</table>

Assembling the supplied FM antenna

The supplied FM wire antenna must be connected to the supplied FM antenna adaptor.

Notes on antenna hookups

- To prevent noise pickup, keep the AM loop antenna away from the receiver and other components.
- Be sure to fully extend the FM wire antenna.
- After connecting the FM wire antenna, keep it as horizontal as possible.

If you have poor FM reception

Use a 75-ohm coaxial cable (not supplied) to connect the receiver to an outdoor FM antenna as shown below.

Outdoor FM antenna

Important

If you connect the receiver to an outdoor antenna, ground it against lightning. To prevent a gas explosion, do not connect the ground wire to a gas pipe.

Note

Do not use the SIGNAL GND terminal for grounding the receiver.
Audio Component Hookups

**STR-DE975**

**Required cords**

Audio cords (not supplied)
When connecting a cord, be sure to match the color-coded pins to the appropriate jacks on the components.

- White (L)
- White (L)
- Red (R)
- Red (R)

**Jacks for connecting audio components**

<table>
<thead>
<tr>
<th>Connect a</th>
<th>To the</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turntable</td>
<td>PHONO jacks</td>
</tr>
<tr>
<td>CD or SACD player</td>
<td>CD/SACD jacks</td>
</tr>
<tr>
<td>Tape deck</td>
<td>TAPE jacks</td>
</tr>
<tr>
<td>MD deck or DAT deck</td>
<td>MD/DAT jacks</td>
</tr>
</tbody>
</table>

**Note on audio component hookups**

If your turntable has a ground wire, connect it to the SIGNAL GND terminal on the receiver.
Hooking Up the Components

STR-DE875

Required cords
Audio cords (not supplied)
When connecting a cord, be sure to match the color-coded pins to the appropriate jacks on the components.

Jacks for connecting audio components

<table>
<thead>
<tr>
<th>Connect a</th>
<th>To the</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turntable</td>
<td>PHONO jacks</td>
</tr>
<tr>
<td>CD or SACD player</td>
<td>CD/SACD jacks</td>
</tr>
<tr>
<td>MD deck or tape deck</td>
<td>MD/TAPE jacks</td>
</tr>
</tbody>
</table>

Note on audio component hookups
If your turntable has a ground wire, connect it to the SIGNAL GND terminal on the receiver.
### Video Component Hookups

#### Required cords

Audio/video cords (not supplied)

When connecting a cord, be sure to match the color-coded pins to the appropriate jacks on the components.

- **Yellow (video)**
- **White (L/audio)**
- **Red (R/audio)**

**Video cord for connecting a TV monitor (not supplied)**

![Video cord diagram]

#### Jacks for connecting video components

<table>
<thead>
<tr>
<th>Connect a</th>
<th>To the</th>
</tr>
</thead>
<tbody>
<tr>
<td>TV or satellite tuner</td>
<td>TV/SAT jacks</td>
</tr>
<tr>
<td>VCR</td>
<td>VIDEO 1 jacks</td>
</tr>
<tr>
<td>Additional VCR</td>
<td>VIDEO 2 jacks</td>
</tr>
<tr>
<td>DVD or LD player</td>
<td>DVD/LD jacks</td>
</tr>
<tr>
<td>TV monitor&lt;sup&gt;1&lt;/sup&gt;</td>
<td>MONITOR VIDEO OUT jack</td>
</tr>
</tbody>
</table>

<sup>1</sup> For STR-DE975, you can display the SET UP, Surr, LEVEL and EQ parameters and the current sound field by pressing ON SCREEN.

#### Note on video component hookups

You can connect your TV’s audio output jacks to the TV/SAT AUDIO IN jacks on the receiver and apply sound effects to the audio from the TV. In this case, do not connect the TV’s video output jack to the TV/SAT VIDEO IN jack on the receiver. If you are connecting a separate TV tuner (or satellite tuner), connect both the audio and video output jacks to the receiver as shown above.

*When using the S-video jacks instead of the video jacks*

Your monitor must also be connected via an S-video jack. S-video signals are on a separate bus from the video signals and will not be output through the video jacks.
Digital Component Hookups

Connect the digital output jacks of your DVD player and satellite tuner (etc.) to the receiver’s digital input jacks to bring the multi channel surround sound of a movie theater into your home. To enjoy full effect of multi channel surround sound, five speakers (two front speakers, two surround speakers, and a center speaker) and a sub woofer are required. You can also connect an LD player with an RF OUT jack via an RF demodulator, such as the Sony MOD-RF1 (not supplied).

**Required cords**

- **Optical digital cords (not supplied)**
  - Black \(\rightarrow\) Black

- **Coaxial digital cord (not supplied)**
  - Yellow \(\rightarrow\) Yellow

- **Audio/video cords (not supplied)**
  - Yellow (video) \(\rightarrow\) Yellow (video)
  - White (L/audio) \(\rightarrow\) White (L/audio)
  - Red (R/audio) \(\rightarrow\) Red (R/audio)

When connecting a cord, be sure to match the color-coded pins to the appropriate jacks on the components.

*When making connections as shown above, be sure to set INPUT MODE on page 27 manually. The receiver may not operate correctly if INPUT MODE is set to “AUTO 2CH” or “AUTO MULTI CH”.

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**Example of LD player connected via an RF demodulator**

Please note that you cannot connect an LD player’s DOLBY DIGITAL RF OUT jack directly to the receiver’s digital input jacks. You must first convert the RF signal to either an optical or coaxial digital signal. Connect the LD player to the RF demodulator, then connect the RF demodulator’s optical or coaxial digital output to the receiver’s OPTICAL or COAXIAL DVD/LD IN jack. Refer to the instruction manual supplied with your RF Demodulator for details on DOLBY DIGITAL RF hookups.

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**Note**

When making connections as shown above, be sure to set INPUT MODE on page 27 manually. The receiver may not operate correctly if INPUT MODE is set to “AUTO 2CH” or “AUTO MULTI CH”.

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*When making digital audio connections to a DVD player, connect to either the coaxial OR optical digital jacks, and not both. It is recommended to make digital audio connections to the coaxial jack.*
Hooking Up the Components

Digital Component Hookups

Connect the digital output jacks of your MD or DAT deck to the receiver’s digital input jacks and connect the digital output jacks of your MD or DAT deck to the receiver’s digital output jack. These connections allow you to make digital recordings of a CDs played back through your DVD (or LD player) and satellite broadcasts.

Required cords

**Optical digital cords (not supplied)**

- Black

**Audio cords (not supplied)**

When connecting a cord, be sure to match the color-coded pins to the appropriate jacks on the components.

<table>
<thead>
<tr>
<th>White (L)</th>
<th>White (L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red (R)</td>
<td>Red (R)</td>
</tr>
</tbody>
</table>

Notes

- Please note that you cannot make a digital recording of a digital multi channel surround signal.
- To make a digital recording from your CD or SACD player, connect the CD or SACD player’s digital output directly to the digital input on your MD or DAT deck. Refer to the instructions supplied with your CD or SACD player and MD or DAT deck for details.
- The DVD/LD IN OPTICAL and COAXIAL jacks are compatible with 96 kHz, 48 kHz, 44.1 kHz and 32 kHz sampling frequencies. The other OPTICAL jacks are compatible with 48 kHz, 44.1 kHz and 32 kHz sampling frequencies.
- It is not possible to record analog signals to TAPE (STR-DE975 only), MD/DAT (STR-DE975 only) or MD/TAPE (STR-DE875 only) and VIDEO with only digital connections. To record analog signals, make analog connections. To record digital signals, make digital connections.
- Input signals with 96 kHz sampling frequencies to the DVD/LD IN OPTICAL or COAXIAL jacks. Using other jacks may result in intermittent sound.
MULTI CH IN Hookups

Although this receiver incorporates a multi channel decoder, it is also equipped with MULTI CH IN jacks. These connections allow you to enjoy multichannel software encoded in formats other than Dolby Digital and DTS. If your DVD player is equipped with MULTI CH OUTPUT jacks, you can connect them directly to the receiver to enjoy the sound of the DVD player’s multi channel decoder. Alternatively, the MULTI CH IN jacks can be used to connect an external multi channel decoder. To fully enjoy multi channel surround sound, you will need five speakers (two front speakers, two surround speakers, and a center speaker) and a sub woofer. Refer to the instruction manual supplied with your DVD player, multi channel decoder, etc., for details on the multi channel input hookups.

**Required cords**

**Audio cords (not supplied)**
Two for the MULTI CH IN FRONT and SURROUND jacks

- White (L)
- Red (R)

**Monaural audio cords (not supplied)**
Two for the MULTI CH IN CENTER and SUB WOOFER jacks

- Black

**Video cord (not supplied)**
One for the DVD/LD VIDEO IN jacks (etc.)

- Yellow

**Note**

When using the connections described below, adjust the level of your surround speakers and sub woofer from the DVD player or multichannel decoder.

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**Example of a DVD player hookup using the MULTI CH IN jacks**

**Note**

See page 16 for details on speaker system hookup.
Other Hookups

Required cords

Audio cords (not supplied)
When connecting a cord, be sure to match the color-coded pins to the appropriate jacks on the components.

White (L) Red (R)

Audio/video/control S connecting cord (supplied) (1)

Yellow (video) White (L/audio) Red (R/audio) Black (control S)

Control S connecting cord (supplied) (1)

Black

Example of a 2nd room hookup using the 2ND ROOM jacks (STR-DE975 only)

You can use the 2ND ROOM jacks to output the audio signal of the selected component to a stereo amplifier located in another room. Press 2ND ROOM repeatedly to switch the audio signal output to the 2nd room.

Note
This function is not available when MULTI CH IN is selected.
**S-LINK CONTROL S hookup**

If you have a S-LINK CONTROL S-compatible Sony TV, satellite tuner, monitor, DVD player or VCR, use an audio/video/control S connecting cord (supplied) or a control S connecting cord (supplied) to connect the CTRL S (STATUS) IN (for TV, satellite tuner, or monitor) or OUT (for VCR, etc.) jack on the receiver to the appropriate S-LINK jack on the respective component. Refer to the operating instructions supplied with your TV, satellite tuner, monitor, VCR, etc., for details.

The following illustration is an example of S-LINK CONTROL S hookups between the receiver, a TV, a VCR, and a DVD player. When your TV is connected to the receiver as shown below, the TV input mode will change to video input whenever you turn on the receiver. When you connect the receiver as shown below, input mode of the receiver changes to VIDEO 1 or DVD/LD whenever you play your VCR or DVD.

The following connections also change the input mode of the receiver to TV whenever you operate your TV.

**CONTROL A1 II hookup**

- **If you have a CONTROL A1 II compatible Sony CD player, SACD player, tape deck, or MD deck**

Use a CONTROL A1 cord (not supplied) to connect the CONTROL A1 II jack on the CD player, SACD player, tape deck, or MD deck to the CONTROL A1 II jack on the receiver. Refer “CONTROL-A1 II Control System” on page 53 and the operating instructions supplied with your CD player, SACD player, tape deck, or MD deck for details.

**Note**

If you make CONTROL A1 II connections from the receiver to an MD deck that is also connected to a computer, do not operate the receiver while using the “Sony MD Editor” software. This may cause a malfunction.

- **If you have a Sony CD changer with a COMMAND MODE selector**

If your CD changer’s COMMAND MODE selector can be set to CD 1, CD 2, or CD 3, be sure to set the command mode to “CD 1” and connect the changer to the CD jacks on the receiver.

If, however, you have a Sony CD changer with VIDEO OUT jacks, set the command mode to “CD 2” and connect the changer to the VIDEO 2 jacks on the receiver.
Digital Component Hookups

Connecting the AC power cord

Before connecting the AC power cord of this receiver to a wall outlet:
• Connect the speaker system to the receiver (see page 16).

Connect the AC power cord(s) of your audio/video components to a wall outlet.

If you connect other audio/video components to the AC OUTLET(s) on the receiver, the receiver will supply power to the connected component(s), allowing you to turn the whole system on or off when you turn the receiver on or off.

Caution
Make sure that the total power consumption of the component(s) connected to the receiver’s AC OUTLET(s) does not exceed the wattage stated on the rear panel. Do not connect high-wattage electrical home appliances such as electric irons, fans, or TVs to this outlet.
Hooking Up and Setting Up the Speaker System

This chapter describes how to hook up your speaker system to the receiver, how to position each speaker, and how to set up your speakers to enjoy multi channel surround sound.

Brief descriptions of buttons and control used to set up the speaker system

**SET UP button:** Press to enter the setup mode when specifying speaker types and distances.

**Cursor buttons (\(<</>>\)):** Use to select parameters after pressing the SET UP button.

**Jog dial:** Use to adjust the setting of each parameter.
**Speaker System Hookup**

**Required cords**

**Speaker cords (not supplied)**
One for each front, surround, and center speaker

(+) (+)  (-) (-)

**Monaural audio cord (not supplied)**
One for an active woofer

Black  Black

**Terminals for connecting the speakers**

<table>
<thead>
<tr>
<th>Connect the</th>
<th>To the</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front speakers (8 or 4** ohm)</td>
<td>SPEAKERS FRONT terminals</td>
</tr>
<tr>
<td>Surround speakers (8 ohm)</td>
<td>SPEAKERS SURROUND terminals</td>
</tr>
<tr>
<td>Center speaker (8 ohm)</td>
<td>SPEAKERS CENTER terminals</td>
</tr>
<tr>
<td>Active sub woofer***</td>
<td>SUB WOOFER AUDIO OUT jack</td>
</tr>
</tbody>
</table>

**Notes on speaker system hookup**

- Twist the stripped ends of the speaker cords about 2/3 inch (10 mm). Be sure to match the speaker cord to the appropriate terminal on the components: + to + and − to −. If the cords are reversed, the sound will be distorted and will lack bass.
- If you use speakers with low maximum input rating, adjust the volume carefully to avoid excessive output on the speakers.

**Notes on speaker system hookup (continued)**

- Twist the stripped ends of the speaker cords about 2/3 inch (10 mm). Be sure to match the speaker cord to the appropriate terminal on the components: + to + and − to −. If the cords are reversed, the sound will be distorted and will lack bass.
- If you use speakers with low maximum input rating, adjust the volume carefully to avoid excessive output on the speakers.

**Notes on speaker system hookup (continued)**

- Twist the stripped ends of the speaker cords about 2/3 inch (10 mm). Be sure to match the speaker cord to the appropriate terminal on the components: + to + and − to −. If the cords are reversed, the sound will be distorted and will lack bass.
- If you use speakers with low maximum input rating, adjust the volume carefully to avoid excessive output on the speakers.

**Notes on speaker system hookup (continued)**

- Twist the stripped ends of the speaker cords about 2/3 inch (10 mm). Be sure to match the speaker cord to the appropriate terminal on the components: + to + and − to −. If the cords are reversed, the sound will be distorted and will lack bass.
- If you use speakers with low maximum input rating, adjust the volume carefully to avoid excessive output on the speakers.

**Notes on speaker system hookup (continued)**

- Twist the stripped ends of the speaker cords about 2/3 inch (10 mm). Be sure to match the speaker cord to the appropriate terminal on the components: + to + and − to −. If the cords are reversed, the sound will be distorted and will lack bass.
- If you use speakers with low maximum input rating, adjust the volume carefully to avoid excessive output on the speakers.

**Notes on speaker system hookup (continued)**

- Twist the stripped ends of the speaker cords about 2/3 inch (10 mm). Be sure to match the speaker cord to the appropriate terminal on the components: + to + and − to −. If the cords are reversed, the sound will be distorted and will lack bass.
- If you use speakers with low maximum input rating, adjust the volume carefully to avoid excessive output on the speakers.

**Notes on speaker system hookup (continued)**

- Twist the stripped ends of the speaker cords about 2/3 inch (10 mm). Be sure to match the speaker cord to the appropriate terminal on the components: + to + and − to −. If the cords are reversed, the sound will be distorted and will lack bass.
- If you use speakers with low maximum input rating, adjust the volume carefully to avoid excessive output on the speakers.

**Notes on speaker system hookup (continued)**

- Twist the stripped ends of the speaker cords about 2/3 inch (10 mm). Be sure to match the speaker cord to the appropriate terminal on the components: + to + and − to −. If the cords are reversed, the sound will be distorted and will lack bass.
- If you use speakers with low maximum input rating, adjust the volume carefully to avoid excessive output on the speakers.

**Notes on speaker system hookup (continued)**

- Twist the stripped ends of the speaker cords about 2/3 inch (10 mm). Be sure to match the speaker cord to the appropriate terminal on the components: + to + and − to −. If the cords are reversed, the sound will be distorted and will lack bass.
- If you use speakers with low maximum input rating, adjust the volume carefully to avoid excessive output on the speakers.

**Notes on speaker system hookup (continued)**

- Twist the stripped ends of the speaker cords about 2/3 inch (10 mm). Be sure to match the speaker cord to the appropriate terminal on the components: + to + and − to −. If the cords are reversed, the sound will be distorted and will lack bass.
- If you use speakers with low maximum input rating, adjust the volume carefully to avoid excessive output on the speakers.

**Notes on speaker system hookup (continued)**

- Twist the stripped ends of the speaker cords about 2/3 inch (10 mm). Be sure to match the speaker cord to the appropriate terminal on the components: + to + and − to −. If the cords are reversed, the sound will be distorted and will lack bass.
- If you use speakers with low maximum input rating, adjust the volume carefully to avoid excessive output on the speakers.

**Notes on speaker system hookup (continued)**

- Twist the stripped ends of the speaker cords about 2/3 inch (10 mm). Be sure to match the speaker cord to the appropriate terminal on the components: + to + and − to −. If the cords are reversed, the sound will be distorted and will lack bass.
- If you use speakers with low maximum input rating, adjust the volume carefully to avoid excessive output on the speakers.
**To avoid short-circuiting the speakers**

Short-circuiting of the speakers may damage the receiver. To prevent this, make sure to take the following precautions when connecting the speakers.

**Make sure the stripped ends of each speaker cord does not touch another speaker terminal or the stripped end of another speaker cord.**

**Examples of poor conditions of the speaker cord**

- Stripped speaker cord is touching another speaker terminal.
- Stripped cords are touching each other due to excessive removal of insulation.

**After connecting all the components, speakers, and AC power cord, output a test tone to check that all the speakers are connected correctly.** For details on outputting a test tone, see page 23.

If no sound is heard from a speaker while outputting a test tone or a test tone is output from a speaker other than the one whose name is currently displayed on the receiver, the speaker may be short-circuited. If this happens, check the speaker connection again.

**To avoid damaging your speakers**

Make sure that you turn down the volume before you turn off the receiver. When you turn on the receiver, the volume remains at the level you turn off the receiver.

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**Speaker impedance**

Set the IMPEDANCE SELECTOR for the front speakers as indicated in the table below. Check the instruction manual supplied with your speakers if you're not sure of their impedance. (This information is usually printed on a label on the back of the speaker.)

<table>
<thead>
<tr>
<th>If the nominal impedance of your speaker is</th>
<th>Set IMPEDANCE SELECTOR to</th>
</tr>
</thead>
<tbody>
<tr>
<td>Between 4 and 8 ohms</td>
<td>4Ω</td>
</tr>
<tr>
<td>8 ohms or higher</td>
<td>8Ω</td>
</tr>
</tbody>
</table>

Speakers connected to the SURROUND and CENTER SPEAKERS terminals must have a nominal impedance of 8 ohms or higher (regardless of the setting of the IMPEDANCE SELECTOR).

**Note**

Be sure to turn the power off when setting the IMPEDANCE SELECTOR.
Performing Initial Setup Operations

Once you have hooked up the speakers and turned on the power, clear the receiver’s memory. Then specify the speaker parameters (size, position, etc.) and perform any other initial setup operations necessary for your system.

Clearing the receiver’s memory

Before you use your receiver for the first time or when you want to clear the receiver’s memory, do the following. This procedure is not necessary if the demonstration activates when you turn the power on.

1 Turn off the receiver.

2 Hold down I/Ô for five seconds.
   The currently selected function, then the demonstration message appears in the display and the items including the following are reset or cleared:
   • All preset stations are reset or cleared.
   • All sound field parameters are reset to their factory settings.
   • All index names (of preset stations and program sources) are cleared.
   • All SET UP parameters are reset to their factory settings.
   • The sound field memorized for each program source and preset stations are cleared.
   • The master volume is set to VOLUME MIN.

Performing initial setup operations

Before using your receiver for the first time, adjust SET UP parameters so that the receiver correspond to your system. For the adjustable parameters, see the table on page 62. See pages 19 – 23 for speaker settings and pages 51 – 52 for other settings.

Demonstration Mode

The demonstration will activate the first time you turn on the power. When the demonstration starts, the following message appears in the display twice:
   “Now Demonstration Mode!! To finish the demonstration, please press POWER KEY while this message appears in the display. Thank you!”

To cancel the demonstration

Press I/Ô to turn the receiver off while the above message is being displayed. The next time you turn the receiver on, the demonstration will not appear.

To view the demonstration

Hold down SET UP and press I/Ô to turn on the power.

Notes
   • Running the demonstration will clear the receiver’s memory. For details on what will be cleared, see “Clearing the receiver’s memory” on this page.
   • You cannot cancel demonstration if you did not press I/Ô while the above message is being displayed. To cancel demonstration after the above message appears, press I/Ô twice to activate the demonstration again. Then, press I/Ô while the above message is being displayed.
Multi Channel Surround Setup

For the best possible surround sound all speakers should be the same distance from the listening position (A). However, this unit lets you to place the center speaker up to 5 feet (1.5 meters) closer (B) or the surround back speakers up to 15 feet (4.5 meters) closer (C) and the surround speakers up to 15 feet (4.5 meters) closer (D) to the listening position. The front speakers can be placed from 3 to 40 feet (1.0 to 12.0 meters) from the listening position (A).

You can place the surround speakers either behind you or to the side, depending on the shape of your room (etc.).

You can use the center speaker as a surround back speaker.

When setting up the surround back speaker
Set the speaker at least one meter behind the listening position. It is recommended to place the speaker at an equal distance from the surround left or right speakers. If there is no space behind the listening position, set the speaker above the listening position by placing it on a stand or hanging it from the ceiling. To prevent speaker damage or injury in case the speaker falls, make sure that it is properly fixed in place.

Note
Do not place the center speaker farther away from the listening position than the front speakers.

Specifying the speaker parameters

1. Press I/Ô to turn on the receiver.
2. Press SET UP.
3. Press the cursor buttons ( or ) to select the parameter you want to adjust.
4. Turn the jog dial to select the setting you want. The setting is stored automatically.
5. Repeat steps 3 and 4 until you have set all of the parameters that follow.
Hooking Up and Setting Up the Speaker System

Multi Channel Surround Setup

■ Front speaker size (FRONT)
Initial setting: LARGE
• If you connect large speakers that will effectively reproduce bass frequencies, select “LARGE”. Normally, select “LARGE”.
• If the sound is distorted, or you feel a lack of surround effects when using multi channel surround sound, select “SMALL” to activate the bass redirection circuitry and output the front channel bass frequencies from the sub woofer.
• When the front speaker is set to “SMALL”, the center, surround and surround back speakers are also automatically set to “SMALL” (unless previously set to “NO”).

■ Center speaker size (CENTER)
Initial setting: LARGE
• If you connect a large speaker that will effectively reproduce bass frequencies, select “LARGE”. Normally, select “LARGE”. However, if the front speakers are set to “SMALL”, you cannot set the center speaker to “LARGE”.
• If the sound is distorted, or you feel a lack of surround effects when using multi channel surround sound, select “SMALL” to activate the bass redirection circuitry and output the center channel bass frequencies from the front speakers (if set to “LARGE”) or sub woofer.
• If you do not connect the center speaker, select “NO”. The sound of the center channel will be output from the front speakers.

■ Surround speaker size (SURROUND)
Initial setting: LARGE
• If you connect large speakers that will effectively reproduce bass frequencies, select “LARGE”. Normally, select “LARGE”. However, if the front speakers are set to “SMALL”, you cannot set the surround speakers to “LARGE”.
• If the sound is distorted, or you feel a lack of surround effects when using multi channel surround sound, select “SMALL” to activate the bass redirection circuitry and output the surround channel bass frequencies from the sub woofer or other “LARGE” speakers.
• If you do not connect surround speakers, select “NO”.

■ Surround back speaker size (SURR BACK)**
Initial setting: NO
This parameter can be set when the center speaker is set to “NO” and the surround speakers are set to “LARGE” or “SMALL”.
• If you connect a large speaker that will effectively reproduce bass frequencies, select “LARGE”. Normally, select “LARGE”. However, if the front speakers are set to “SMALL”, you cannot set the surround back speaker to “LARGE”.
• If the sound is distorted, or you feel a lack of surround effects when using multi channel surround sound, select “SMALL” to activate the bass redirection circuitry and output the center channel bass frequencies from the front speakers (if set to “LARGE”) or sub woofer.
• If you do not connect a surround back speaker, select “NO”.

** This parameter is not available when “Surround speaker size (SURROUND)” is set to “NO”.

About speaker sizes (LARGE and SMALL)
Internally, the LARGE and SMALL settings for each speaker determine whether or not the internal sound processor will cut the bass signal from that channel. When the bass is cut from a channel the bass redirection circuitry sends the corresponding bass frequencies to the sub woofer or other “LARGE” speaker. However, since bass sounds have a certain amount of directionality it best not to cut them, if possible. Therefore, even when using small speakers, you can set them to “LARGE” if you want to output the bass frequencies from that speaker. On the other hand, if you are using a large speaker, but prefer not to have bass frequencies output from that speaker, set it to “SMALL”.

If the overall sound level is lower than you prefer, set all speakers to “LARGE”. If there is not enough bass, you can use the equalizer to boost the bass levels. To adjust the equalizer see page 38.

Sub woofer selection (SUB WOOFER)
Initial setting: YES
• If you connect a sub woofer, select “YES”.
• If you do not connect a sub woofer, select “NO”. This activates the bass redirection circuitry and outputs the LFE signals from other speakers.
• In order to take full advantage of the Dolby Digital bass redirection circuitry, we recommend setting the sub woofer’s cut off frequency as high as possible.

*1~*3 correspond to the following Dolby Pro Logic modes

*1 NORMAL
*2 PHANTOM
*3 3 STEREO
Hooking Up and Setting Up the Speaker System

About speaker distances
This receiver allows you to input the speaker position in terms of distance. However, it is not possible to set the center speaker farther away than the front speakers. Also, the center speaker cannot be set more that 5 feet (1.5 meters) closer than the front speakers. Likewise, the surround and surround back speakers cannot be set farther away from the listening position than the front speakers. And they can be no more than 15 feet (4.5 meters) closer. This is because incorrect speaker placement is not conducive to enjoy the surround sound.

Please note that, setting the speaker distance closer than the actual location of the speakers will cause a delay in the output of the sound from that speaker. In other words, the speaker will sound like it is farther away.

For example, setting the center speaker distance 3~6 feet (1~2 m) closer than the actual speaker position will create a fairly realistic sensation of being “inside” the screen. If you cannot obtain a satisfactory surround effect because the surround speakers are too close, setting the surround speaker distance closer (shorter) than the actual distance will create a larger soundstage. Adjusting these parameters while listening to the sound often results in much better surround sound. Give it a try!

Sub woofer phase polarity (S.W PHASE)
Initial setting : NORMAL
Set the sub woofer phase polarity. There is usually no problem when the sub woofer phase polarity is set to “NORMAL”. However, depending on the type of front speakers, the position of the sub woofer, and the cut-off frequency of the sub woofer, setting the phase polarity to “REVERSE” may produce better bass. Besides bass reproduction, the richness and tightness of the overall sound may also be affected. While listening from the main listening position, select the setting that best suits your environment.

Distance unit (DISTANCE UNIT)
Initial setting : feet (meter)
Lets you select either feet or meters as the unit of measure for setting distances.
Hooking Up and Setting Up the Speaker System

Multi Channel Surround Setup

- **Surround speaker position (SURR POSI.)***
  Initial setting: SIDE
  This parameter lets you specify the location of your surround speakers for proper implementation of the Digital Cinema Sound surround modes in the “VIRTUAL” sound fields. Refer to the illustration below.
  - Select “SIDE” if the location of your surround speakers corresponds to section A.
  - Select “MIDDLE” if the location of your surround speakers corresponds to section B.
  - Select “BEHIND” if the location of your surround speakers corresponds to section C.
  This setting only affects the surround modes in the “VIRTUAL” sound fields.

  ![Surround Speaker Position Illustration]

  * These parameters are not available when “Surround speaker size” is set to “NO”.

- **Surround speaker height (SURR HEIGHT)***
  Initial setting: LOW
  This parameter lets you specify the height of your surround and surround back speakers for proper implementation of the Digital Cinema Sound surround modes in the “VIRTUAL” sound fields. Refer to the illustration below.
  - Select “LOW” if the location of your surround speakers corresponds to section A.
  - Select “HIGH” if the location of your surround speakers corresponds to section B.
  **This parameter is only available when “Surround back speaker size” is set to “NO”.

  ![Surround Speaker Height Illustration]

  *** This parameter is not available when “Surround back speaker size” is set to “NO”.

About the surround speaker position (SIDE, MIDDLE and BEHIND)

This setting is designed specifically for implementation of the Digital Cinema Sound modes in the “VIRTUAL” sound fields. With the Digital Cinema Sound modes, speaker position is not as critical as other modes. All of the modes in the “VIRTUAL” sound fields were designed under the premise that the surround speaker would be located behind the listening position, but presentation remains fairly consistent even with the surround speakers positioned at a rather wide angle. However, if the speakers are pointing towards the listener from the immediate left and right of the listening position, the “VIRTUAL” sound fields will not be effective unless the surround speaker position parameter is set to “SIDE”.

Nevertheless, each listening environment has many variables, such as wall reflections, and you may obtain better results using “BEHIND” or “MIDDLE” if your speakers are located high above the listening position, even if they are to the immediate left and right.

Therefore, although it may result in a setting contrary to the “Surround speaker position” explanation, we recommend that you playback multi channel surround encoded software and listen to the effect each setting has on your listening environment. Choose the setting that provides a good sense of spaciousness and that best succeeds in forming a cohesive space between the surround sound from the surround speakers and the sound from the front speakers. If you are not sure which sounds best, select “BEHIND” and then use the speaker distance parameter and speaker level adjustments to obtain proper balance.
Hooking Up and Setting Up the Speaker System

To change the test tone mode, press the cursor buttons (< or >) to select the mode you want.

<table>
<thead>
<tr>
<th>Mode</th>
<th>The test tone output</th>
</tr>
</thead>
<tbody>
<tr>
<td>NORMAL</td>
<td>The test tone is output from each speaker in sequence.</td>
</tr>
<tr>
<td>PHASE</td>
<td>The test tone is output from two speakers at a time in sequence. (There is no sound output from the sub woofer.) You can also adjust the balance between speakers.</td>
</tr>
<tr>
<td>2CH SWAP</td>
<td>You can adjust the speaker levels while listening to the source (not the test tone). Turn on the connected component, start playing, then turn FUNCTION to select the component (except connected to the MULTI CH IN jacks). The sound for the front L/R speakers is output from the surround R/L speakers. You can adjust the level of surround speakers from the listening position.</td>
</tr>
</tbody>
</table>

Note
You cannot select “2CH SWAP” when “2CH A. DIRECT” is selected (18 on page 28).

Adjusting the speaker level

Use the remote while seated in your listening position to adjust the level of each speaker.

Note
This receiver incorporates a new test tone with a frequency centered at 800 Hz for easier speaker level adjustment.

1 Press I/○ to turn on the receiver.

2 Press TEST TONE on the remote.
   “TEST TONE” appears in the display and you will hear the test tone from each speaker in sequence.

3 To change the test tone mode, press the cursor buttons (< or >) to select the mode you want.

4 Adjust the LEVEL parameters so that the level of the test tone from each speaker sounds the same when you are in your main listening position.
Press LEVEL to adjust the balance and level of speakers. For details on the LEVEL menu, see page 37. While adjusting, the test tone is output from the speaker whose adjustment is performed.

5 Press TEST TONE again to turn off the test tone.

Tip
You can adjust the level of all speakers at the same time. Turn MASTER VOLUME on the main unit or press MASTER VOL +/– on the remote.

Notes
- The adjusted value is shown in the display during adjustment.
- Although these adjustments can also be made via the front panel using the LEVEL menu (when the test tone is output, the receiver switches to the LEVEL menu automatically), we recommend you to follow the procedure described above and adjust the speaker levels from your listening position using the remote.
Before You Use Your Receiver

Checking the connections

After connecting all of your components to the receiver, do the following to verify that the connections were made correctly.

1 Press I/1 to turn on the receiver.
2 Turn on the component that you connected (e.g., CD player or tape deck).
3 Rotate FUNCTION to select the component (program source) and start playing it.
4 Rotate MASTER VOLUME to turn up the volume.

If you do not obtain normal sound output after performing this procedure, look for the reason in the following checklist and take the appropriate measures to correct the problem.

There’s no sound from a specific component.

➤ Check that the component is connected correctly to the audio input jacks for that component.
➤ Check that the cord(s) used for the connection is (are) fully inserted into the jacks on both the receiver and the component.

No sound is heard from one of the front speakers.

➤ Connect a pair of headphones to the PHONES jack to verify that sound is output from the headphones (see “SPEAKERS button” and “PHONES jack” on page 29).
If only one channel is output from the headphones, the component may not be connected to the receiver correctly. Check that all the cords are fully inserted into the jacks on both the receiver and the component.
If both channels are output from the headphones, the front speaker may not be connected to the receiver correctly. Check the connection of the front speaker which is not outputting any sound.

If you encounter a problem that is not included above, see “Troubleshooting” on page 55.

There is no sound no matter which component is selected.

➤ Check that both the receiver and all components are turned on.
➤ Check that the volume level on the display is not set to VOLUME MIN by turning the MASTER VOLUME.
➤ Press SPEAKERS button if SP. OFF appears on the display.
➤ Check that all speaker cords are connected correctly.
➤ Press MUTING if MUTING appears on the display.
➤ Check that the headphones are not connected to the PHONES jack. No sound will come from the speakers if the headphones are connected.
➤ Check that the receiver is not in “Demonstration Mode” (see page 18).
Location of Parts and Basic Operations

This chapter provides information about the locations and functions of the buttons and controls on the front panel. It also explains basic operations.

1. **I/\ switch**
   Press to turn the receiver on and off.

2. **DISPLAY button**
   Press repeatedly to change the information on the display window as follows:
   - Index name of the component or the preset station*
   - FUNCTION button indication or frequency**
   - Sound field applied to the program source

* Index name appears only when you have assigned one to the component or preset station (see page 49). Index name does not appear when only blank spaces have been entered, or it is the same as the function button.
** Frequency appears only when the tuner is selected.

3. **DIMMER button**
   Press DIMMER repeatedly to adjust the brightness of the display (5 steps).
   When set to the dimmest setting, the display and the blue LED are turned off. However, when you press any button, the display becomes the brightest setting temporary.
**Front Panel Parts Description**

1. **DISPLAY**
2. **DIMMER**
3. **ON SCREEN**
4. **MEMORY SHIFT FM MODE FM AM PRESET TUNING TUNING +/–**
5. **MULTI CHANNEL DECODING**
6. **A.F.D. SOUND FIELD MULTI /2CH A. DIRECT DIGITAL CONCERT HALL EQUALIZER MUTING INPUT MODE MODE 2ND ROOM FUNCTION**
7. **PHONES VIDEO 3 INPUT VIDEO L AUDIO R SPEAKERS EQ SURR LEVEL SET UP NAME ENTER**
8. **MASTER VOLUME**

**The following buttons operate the built-in tuner. For details, see “Receiving Broadcasts” starting from page 44.**

**PRESET TUNING +/– buttons**
Scan all preset stations.

**TUNING +/- buttons**
Scan all the available radio stations.

**MEMORY button**
Press to memorize a preset station.

**SHIFT button**
Selects a memory page for preset stations.

**FM MODE button**
If “STEREO” flashes in the display and the FM stereo reception is poor, press this button. You will not have the stereo effect but the sound is improved.

**FM button**
Selects the FM band.

**AM button**
Selects the AM band.

**MULTI CHANNEL DECODING indicator**
This indicator lights up when the unit is decoding signals recorded in a multi channel format.

**Use the CINEMA STUDIO EX buttons to enjoy the CINEMA STUDIO EX sound effects.**

**A/B/C buttons**
Press to activate the CINEMA STUDIO EX A, B or C sound field (page 32).

**SOUND FIELD buttons**
Use the SOUND FIELD buttons to enjoy surround sound. For details, see “Enjoying Surround Sound” starting from page 30.

**A.F.D. button / indicator**
Press to set the receiver to automatically detect the type of audio signal being input and perform proper decoding (if necessary).

**MODE button / indicator**
Press to activate the sound field selection mode (page 31).

**2CH button / indicator**
Press to output sound from only the front (left and right) speakers.

**MASTER VOLUME control**
After turning on the component you selected, rotate to adjust the volume.
**2ND ROOM button (STR-DE975 only)**

Press repeatedly to select the audio signals for output to a stereo amplifier or speakers in another room (page 12).

Each press selects another audio source (except PHONO) to be output from the 2ND ROOM jacks. “SOURCE” selects the same program source as the main function controls.

- Even if 2ND ROOM is set to “SOURCE”, the sound from front speakers (L/R) is not output when the receiver is set to MULTI CH IN.
- Only signals from components connected to the analog inputs are output through the 2ND ROOM OUT jacks. No signals are output from components connected to only the digital input jacks.

**FUNCTION control**

Rotate to select the component you want to use.

<table>
<thead>
<tr>
<th>To select</th>
<th>Rotate to display</th>
</tr>
</thead>
<tbody>
<tr>
<td>VCR</td>
<td>VIDEO 1 or VIDEO 2</td>
</tr>
<tr>
<td>Camcorder or video game</td>
<td>VIDEO 3 (STR-DE975 only)</td>
</tr>
<tr>
<td>DVD or LD player</td>
<td>DVD/LD</td>
</tr>
<tr>
<td>TV or satellite tuner</td>
<td>TV/SAT</td>
</tr>
<tr>
<td>Tape deck</td>
<td>TAPE (STR-DE975 only)</td>
</tr>
<tr>
<td>MD or Tape deck</td>
<td>MD/TAPE (STR-DE875 only)</td>
</tr>
<tr>
<td>MD or DAT deck</td>
<td>MD/DAT (STR-DE975 only)</td>
</tr>
<tr>
<td>CD or SACD player</td>
<td>CD/SACD</td>
</tr>
<tr>
<td>Turntable</td>
<td>PHONO</td>
</tr>
</tbody>
</table>

After selecting the component, turn on the component you selected and play the program source.

- After selecting VCR, camcorder, video game, DVD player, or LD player, turn on the TV and set the TV’s video input to match the component you selected.

**MODE button**

Press to select and play another video/audio source in combination with the selected component.

Each time you press the button, the display changes as follows:

**Standard display**

V:XXX  A:XXX  selected component

<table>
<thead>
<tr>
<th>Press MODE to display</th>
<th>And rotate FUNCTION to select</th>
</tr>
</thead>
<tbody>
<tr>
<td>V:XXX</td>
<td>Any video source to enjoy with the audio from the selected component</td>
</tr>
<tr>
<td>A:XXX</td>
<td>Any audio source to enjoy with the video from the selected component</td>
</tr>
</tbody>
</table>

**INPUT MODE button**

Press INPUT MODE to select the input mode for your digital components. Each time you press the button, the input mode of the currently selected component switches.

<table>
<thead>
<tr>
<th>Select</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 2CH</td>
<td>Give priority to the analog audio signals input to the AUDIO IN (L/R) jacks when there is no digital signals.</td>
</tr>
<tr>
<td>COAXIAL FIXED</td>
<td>Specify the digital audio signals input to the DIGITAL COAXIAL input jacks.</td>
</tr>
<tr>
<td>OPTICAL FIXED</td>
<td>Specify the digital audio signals input to the DIGITAL OPTICAL input jacks.</td>
</tr>
<tr>
<td>ANALOG 2CH FIXED</td>
<td>Specify the analog audio signals input to the AUDIO IN (L/R) jacks.</td>
</tr>
</tbody>
</table>

When the MULTI CH is assigned to a specific function using SET UP menu (page 51), “AUTO MULTI CH” and “MULTI CH FIXED” are displayed instead of “AUTO 2CH” and “ANALOG 2CH FIXED”.

<table>
<thead>
<tr>
<th>Select</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO MULTI CH</td>
<td>Give priority to the analog audio signals input to the MULTI CH IN jacks when there is no digital signals.</td>
</tr>
<tr>
<td>MULTI CH FIXED</td>
<td>Specify the analog audio signals input to the MULTI CH IN jacks.</td>
</tr>
</tbody>
</table>
Front Panel Parts Description

12 MUTING button
Press to mute the sound. MUTING appears in the display when the sound is muted.

13 6.1 CH DECODING button
Press 6.1 CH DECODING to adjust the 6.1 channel matrix parameter in the SET UP menu (page 51).
This function works only for the multi channel format [3/2].
This function is effective for the following sound fields.
- A.F.D.*
- NORMAL SURROUND
- CINEMA STUDIO EX A-C
- SEMI CINEMA STUDIO EX A-C
- NIGHT THEATER
- MONO MOVIE
- STEREO MOVIE
- V. MULTI DIMENSION
- VIRTUAL MULTI REAR
- V. SEMI M. DIMENSION
- VIRTUAL ENHANCED A, B
  * "AUTO" only.

About the "VIRTUAL MATRIX 6.1" playback
Though this receiver incorporates the 5.1 channel amplifier, you can reproduce the 6.1 channel surround sound of the sources encoded in 6.1 channel (page 31).
To enjoy "VIRTUAL MATRIX 6.1" playback most effectively, use the 6.1CH DECODING function when you select "CINEMA STUDIO EX A-C" or "SEMI CINEMA STUDIO EX A-C". The sound characteristics of CINEMA STUDIO and the 3D sound imaging create the virtual surround back speaker, and you can enjoy the surround effect as if in the real theater. You can select AUTO/ON/OFF using the 6.1CH DECODING button (page 51).

14 EQUALIZER button
Press to turn the equalizer on or off. The EQ indicator in the display lights when the equalizer is turned on. When you adjust the equalizer using the EQ parameters (page 38), the settings are stored automatically and can be reproduced wherever you turn on the equalizer.
- The equalizer is not compatible with 96 kHz digital audio signals and during MULTI CH IN input or 2CH ANALOG DIRECT.

15 DIGITAL CONCERT HALL buttons
Use the DIGITAL CONCERT HALL buttons to enjoy the DIGITAL CONCERT HALL sound effects.

A/B buttons
Press to activate the DIGITAL CONCERT HALL A or B sound field (page 32).

16 MULTI/2CH A. DIRECT button
Press MULTI/2CH A. DIRECT to enjoy the audio source connected to the MULTI CH IN jacks or analog 2 channel input jacks. Only volume control and the front speaker balance can be adjusted when set to 2CH ANALOG DIRECT. When set to MULTI DIRECT, you can adjust balance and level of all the speakers. When this function is on, the surround effects are turned off.

<table>
<thead>
<tr>
<th>Select</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>MULTI</td>
<td>Enjoy the audio source connected to the MULTI CH IN jacks. MULTI CH IN indicator lights up in the display. This mode is suitable for enjoying high quality analog source.</td>
</tr>
<tr>
<td>2CH A. DIRECT</td>
<td>Enjoy the audio source connected to analog 2 channel jacks. This mode is suitable for enjoying high quality analog source.</td>
</tr>
</tbody>
</table>
17 SET UP button
Press to activate the setup mode, then use the cursor buttons (21) to select any of the following indications. You can then make various settings using the jog dial (20). For details, see “Adjustment Using the SET UP Button” starting from page 51.

18 NAME button
Press to activate the name function and enter names for preset stations and program sources (page 49).

19 ENTER button
Press to enter individual characters for the preset station and program source names.

20 Jog dial
Turn to adjust the selected speaker level, surround, and equalizer parameters (etc.).

21 Cursor buttons (<</>>)
Press to select various speaker level, surround, and equalizer parameters (etc.).

22 EQ button
Press to activate the equalizer parameters (page 38). The indicator on the button lights up and you can adjust the various equalizer parameters.

23 SURR button
Press to activate the surround parameters (page 36). The indicator on the button lights up and you can adjust the various surround parameters (effect level, wall type, etc.).

24 LEVEL button
Press to activate the speaker level parameters (page 37). The indicator on the button lights up and you can adjust the various speaker level parameters (front balance, surround balance, etc.).

25 ON SCREEN button (STR-DE975 only)
Press to turn the on-screen display on or off (page 8). Press to display the current sound field, and the parameters for SURR, LEVEL, EQ, and SET UP. Press again to turn off the on-screen display.

26 SPEAKERS button
Press SPEAKERS button to ON. Press again to OFF.

PHONES jack
Connects headphones.
• When you connect the headphones, no sound will come from the speakers and “SP. OFF” lights up in the display.
You can take advantage of surround sound simply by selecting one of the receiver’s pre-programmed sound modes. They bring the exciting and powerful sound of movie theaters and concert halls into your home. You can also customize the sound modes to obtain the sound you desire by changing the various surround parameters.

The receiver contains a variety of different sound modes. The cinema sound modes are designed for use when playing back movie software (DVD, LD, etc.) encoded with multi channel surround sound or Dolby Pro Logic. In addition to decoding the surround sound, some of these modes also provide sound effects commonly found in movie theaters.

The virtual sound modes contain compelling applications of the Sony Digital Cinema Sound digital signal processing technology. They shift the sound away from the actual speaker locations to simulate the presence of several “virtual” speakers.

The music (etc.) sound modes are designed for use with standard audio sources and TV broadcasts. They add reverberation to the source signal to make you feel as if you were in a concert hall or stadium (etc.). Use these sound modes with two-channel sources like CD and stereo broadcasts of sports programs or musical concerts. For more information about the sound modes, see pages 32 – 33.

**A.F.D.**

The “Auto Format Decoding” sound mode presents the sound exactly as it was encoded, without adding any reverberation (etc.).

**DCS (Digital Cinema Sound)**

The sound fields with DCS marks use DCS technology. When these sound fields are selected, “Digital Cinema Sound” indicator in the display lights up.

DCS is the concept name of the surround technology for home theater developed by Sony. DCS uses the DSP (Digital Signal Processor) technology to reproduce the sound characteristics of an actual cinema cutting studio in Hollywood.

To fully enjoy surround sound, you must register the number and location of your speakers. See “Multi-Channel Surround setup” starting on page 19 to set the speaker parameters before enjoying surround sound.
Enjoying Surround Sound

Selecting a Sound Field

You can enjoy surround sound simply by selecting one of the pre-programmed sound fields according to the program you want to listen to.

1 Press SOUND FIELD MODE.
   The current sound field is indicated in the display.

2 Turn the jog dial or press the cursor buttons (< or >) to select the sound field you want.
   See the table starting on page 32 for information on each sound field.

To turn the sound field off
Press A.F.D., 2CH or MULTI/2CH A. DIRECT (page 33).

Tip
When sound signals with a sampling frequency of 96 kHz are input, the sound signals are output in stereo automatically, and the sound field is turned off.

 الاقتصادي
You can identify Dolby Surround-encoded software by looking at the packaging
Dolby Digital discs are labeled with the logo, and Dolby Surround encoded programs are labeled with the logo.

6.1 channel matrix decoding
Some movies released after the summer of 1999 added a new channel to its preexisting 5.1 channel. The new channel added speakers behind the listening position. In the movie theaters, these speakers are placed on the rear wall, on each side of the projection room’s window.

The 6.1 channel system used in the movie theaters is called Dolby Surround EX system. However, to record on movie films, this 6.1 channel is converted to 5.1 channel using matrix encoding, and the same number of channels are used as Dolby Digital and DTS recordings. Recordings on the DVD also use the same signals.

A lot of movie theaters screen movie with matrix encoded 5.1 channel signals and this is not unnatural to the ears. However, when a matrix decoder is used to create surround center speaker signals, this simulates the same 6.1 channel sound as Dolby Surround EX system in the movie theaters.

This unit is equipped with the matrix decoder allowing for 6.1 channel sound production. With Virtual 3D technology, the surround back signals can be enjoyed even without an actual surround back speaker. When the center speaker is not used, it is possible to use this channel to output surround back signals. Particularly with 6.1 CH DECODING, speakers placed on rear and side walls in the movie theaters are virtually created. As reflections and reverberations are also simulated, you can enjoy powerful sounds as if in the movie theater that uses Dolby Surround EX system.

Brief descriptions of buttons used to enjoy surround sound

LEVEL button: Press to customize the level parameters.

Surr button: Press to customize the surround parameters in the current sound field.

EQ button: Press to customize the equalizer parameters in the current sound field.

Cursor buttons (< / >): Use to select parameters after pressing the LEVEL, Surr, EQ or SET UP buttons.

Jog dial: Use to adjust parameters and select sound fields (etc.).

SOUND FIELD buttons:

A.F.D. button: Press to set the receiver to automatically detect the type of audio signal being input and perform proper decoding (if necessary).

MODE button: Press to activate the sound field selection mode.

2CH button: Press to output sound from only the front (left and right) speakers.

EQUALIZER button: Turns the equalizer effect on or off.

CINEMA STUDIO EX buttons: Press to select CINEMA STUDIO EX A~C sound field.

MULTI/2CH A. DIRECT: Press to input the analog signal without digital processing. When this function is on, the equalizer and sound field (etc.) are turned off.

DIGITAL CONCERT HALL buttons: Press to select DIGITAL CONCERT HALL A~B sound field.
Selecting a Sound Field

Sound field information

- NORMAL SURROUND
Software with multi channel surround audio signals is played back according to the way it was recorded. Software with 2 channel audio signals is decoded with Dolby Pro Logic to create surround effects.

- CINEMA STUDIO EX A–C
Uses 3D sound imaging of V. MULTI DIMENSION to create 5 sets of virtual speakers surrounding the listener from a single pair of actual surround speakers. You can reproduce the 6.1 channel surround sound by creating the virtual surround back speaker through the “VIRTUAL MATRIX 6.1” playback function (on page 28).
  - CINEMA STUDIO EX A reproduces the sound characteristics of Sony Pictures Entertainment’s classic editing studio.
  - CINEMA STUDIO EX B reproduces the sound characteristics of Sony Pictures Entertainment’s mixing studio which is one of the most up-to-date facilities in Hollywood.
  - CINEMA STUDIO EX C reproduces the sound characteristics of Sony Pictures Entertainment’s BGM recording studio.

- SEMI CINEMA STUDIO EX A–C
Uses 3D sound imaging of V. SEMI M. DIMENSION to create 5 sets of virtual surround speakers surrounding the listener from the sound of the front speakers (without using actual surround speakers).
You can reproduce the 6.1 channel surround sound by creating the virtual surround back speaker through the “VIRTUAL MATRIX 6.1” playback function (on page 28).
  - SEMI CINEMA STUDIO EX A reproduces the sound characteristics of Sony Pictures Entertainment’s classic editing studio.
  - SEMI CINEMA STUDIO EX B reproduces the sound characteristics of Sony Pictures Entertainment’s mixing studio which is one of the most up-to-date facilities in Hollywood.
  - SEMI CINEMA STUDIO EX C reproduces the sound characteristics of Sony Pictures Entertainment’s BGM recording studio.

- NIGHT THEATER
Allows you to retain a theater like environment while listening at low volume levels, such as late at night.

- MONO MOVIE
Creates a theater like environment from movies with monaural soundtracks.

- STEREO MOVIE
Creates a theater like environment from movies recorded with stereo soundtracks.

- V. MULTI DIMENSION
Uses 3D sound imaging to create an array of virtual surround speakers positioned higher than the listener from a single pair of actual surround speakers. This mode creates 5 sets of virtual speakers surrounding the listener at approximately a 30° angle of elevation.

- VIRTUAL MULTI REAR
Uses 3D sound imaging to create 3 sets of virtual surround speakers from 1 set of actual surround speakers.

- V. SEMI M. DIMENSION
Uses 3D sound imaging to create virtual surround speakers from the sound of the front speakers without using actual surround speakers. This mode creates 5 sets of virtual speakers surrounding the listener at a 30° angle of elevation.

- VIRTUAL ENHANCED A
Uses 3D sound imaging to create 3 sets of virtual surround speakers from the sound of the front speakers without using actual surround speakers.

- VIRTUAL ENHANCED B
Uses 3D sound imaging to create 1 set of virtual surround speakers from the sound of the front speakers without using actual surround speakers.

- DIGITAL CONCERT HALL A, B
Reproduces the acoustics of a concert hall using multi-speaker system and 3D sound imaging for software with 2 channel signals like CDs.
  - DIGITAL CONCERT HALL A reproduces the sonic character of the CONCERTGEBOUW in Amsterdam, which is famous for its large sound stage due to its reflectivity.
  - DIGITAL CONCERT HALL B reproduces the sonic character of the MUSIKVEREIN in Vienna, which is famous for its hall resonance and unique reverberative sound.

- CHURCH
Reproduces the acoustics of a stone church.

- OPERA HOUSE
Reproduces the acoustics of an opera house.
Enjoying Surround Sound

- **JAZZ CLUB**
  Reproduces the acoustics of a jazz club.

- **DISCO/CLUB**
  Reproduces the acoustics of a discotheque/dance club.

- **LIVE HOUSE**
  Reproduces the acoustics of a 300-seat live house.

- **ARENA**
  Reproduces the acoustics of a 1000-seat concert hall.

- **STADIUM**
  Reproduces the feeling of a large open-air stadium.

- **GAME**
  Obtains maximum audio impact from video game software.

When headphones are connected, you can select the following sound fields only:

- **HEADPHONE (2CH)**
  Outputs the sound in 2 channel (stereo). Standard 2 channel (stereo) sources completely bypass the sound field processing. Multi channel surround formats are downmixed to 2 channel.

- **HEADPHONE (DIRECT)**
  Outputs the analog signals without digital processing by the equalizer, sound field, etc.

- **HEADPHONE THEATER**
  Allows you to experience a theater-like environment while listening through a pair of headphones.

  1) “VIRTUAL” sound field: Sound field with virtual speakers. However, turning the SURROUND menu “VIR. SPEAKERS” parameter off when using “CINEMA STUDIO EX A–C” or “SEMI CINEMA STUDIO EX A–C” reproduces the sound characteristics of each cinema production studio without virtual speakers.

  2) You can select by pressing the buttons on the front panel.

Notes

- The effects provided by the virtual speakers may cause increased noise in the playback signal.
- When listening to sound fields that employ the virtual speakers, you will not be able to hear any sound coming directly from the surround speakers.

Use the buttons on the front panel to operate the following modes.

- **A.F.D. (Auto Format Decoding)**
  Automatically detects the type of audio signal being input (Dolby Digital, DTS, Dolby Pro Logic, or standard 2 channel stereo) and performs the proper decoding if necessary. This mode presents the sound as it was recorded/encoded, without adding any effects (e.g. reverberation.)

- **2CH (2 Channel)**
  Outputs the sound from the front left and right speakers only. Standard 2 channel (stereo) sources completely bypass the sound field processing. Multi channel surround formats are downmixed to 2 channel.

- **MULTI/2CH A. DIRECT (Multi/2 CH Analog Direct)**
  The analog input signal is not digitally processed. You can enjoy high quality analog source. Only volume control and the front speaker balance can be adjusted when set to 2CH A. DIRECT. When set to MULTI DIRECT, you can adjust balance and level of all the speakers. When this function is on, the equalizer, sound field (etc.) are turned off.

Note

No sound is output from the subwoofer when the 2 CHANNEL mode is selected. To listen to two channel (stereo) sources using the front left and right speakers and a subwoofer, use the AUTO FORMAT DECODING mode.
Understanding the Multi-Channel Surround Displays

1. **OPT**
   Lights up when the source signal is a digital signal being input through the OPTICAL terminal.

2. **COAX**
   Lights up when the source signal is a digital signal being input through the COAXIAL terminal.

3. **MULTI CH IN**
   Lights up when MULTI CH IN is selected.

4. **MPEG**
   Lights up when MPEG signals are input.

   **Note**
   Only the front 2 channels are compatible with MPEG format. Multi channel surround sound is downmixed and output from the front 2 channels.

5. **DIGITAL**
   This indicator lights up when the receiver is decoding signals recorded in the Dolby Digital format.

6. **PRO LOGIC**
   Lights up when the receiver applies Pro Logic processing to two channel signals in order to output the center and surround channel signals.*

   *However, this indicator does not light if the center and surround speakers are set to “NO”, or the SPEAKERS button is set to OFF and the A.F.D. or NORMAL SURROUND sound fields are selected.

   **Note**
   Pro Logic decoding does not function for MPEG format signals.

7. **L.F.E.**
   Lights up when the disc being played back contains the LFE (Low Frequency Effect) channel. When the sound of the LFE channel signal is actually being reproduced, the bars underneath the letters lights up to indicate the level. Since the LFE signal is not recorded in all parts of the input signal the bar indication will fluctuate (and may turn off) during playback.

8. **SW**
   Lights up when subwoofer selection is set to “YES” (page 20) and the audio signal is output from the SUB WOOFER jack(s).

9. **Playback channel indicators**
   The letters light up to indicate the channels being played back. The boxes around the letters vary to show how the receiver downmixes the source sound (based on the speakers setting). When using sound fields like “DIGITAL CONCERT HALL”, the receiver adds reverberation based on the source sound.

   L: Front Left
   R: Front Right
   C: Center (monaural)
   SL: Surround Left
   SR: Surround Right
   S: Surround (monaural or the surround components obtained by Pro Logic processing)
   SB: Surround Back (the surround back components obtained by 6.1 matrix decoding)

   **Example:**
   Recording format (Front/Surround): 3/2
   Output channel: Surround speakers absent
   Sound Field: A.F.D.

   ![Playback channel indicators diagram]
### Tuner Indicators
These indicators light up when using the receiver to tune in radio stations, etc. See pages 44 – 47 for tuner operations.

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLEEP</td>
<td>Lights up when sleep timer is activated.</td>
</tr>
<tr>
<td>EQ</td>
<td>Lights when the equalizer functions.</td>
</tr>
<tr>
<td>D. RANGE</td>
<td>Lights up when dynamic range compression is active. See page 37 to adjust the dynamic range compression.</td>
</tr>
<tr>
<td>DTS</td>
<td>Lights up when DTS signals are input.</td>
</tr>
</tbody>
</table>

**Note**
When playing a DTS format disc, be sure that you have made digital connections and that INPUT MODE is NOT set to ANALOG (see SLEEP on page 27).

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP. OFF</td>
<td>Lights up when headphone is inserted or the SPEAKERS button is set to OFF.</td>
</tr>
<tr>
<td>DOLBY DIGITAL</td>
<td>Lights up when Dolby Digital signals are input.</td>
</tr>
</tbody>
</table>
**Customizing Sound Fields**

By adjusting the surround parameters and the equalizer of the front, center, surround and surround back speakers, you can customize the sound fields to suit your particular listening situation.

Once you customize a sound field, the changes are stored in memory indefinitely. You can change a customized sound field any time by making new adjustments to the parameters.

See the table on pages 39 – 43 for the parameters available in each sound field.

### To get the most from multi channel surround sound

Position your speakers and do the procedures described in “Multi Channel Surround Setup” starting on page 19 before you customize a sound field.

### Adjusting the surround parameters

The SURR menu contains parameters that let you customize various aspects of the current sound field. The settings available in this menu are stored individually for each sound field.

1. Start playing a program source encoded with multi channel surround sound.

2. Press SURR.
   The button lights up and the first parameter is displayed.

3. Press the cursor buttons ( or ) to select the parameter you want to adjust.

4. Turn the jog dial to select the setting you want.
   The setting is stored automatically.

**Pro Logic (PRO LOGIC)**
Initial setting : AUTO
Lets you specify the Pro Logic decoding setting.
- When set to “AUTO”, the receiver performs PRO LOGIC decoding if Dolby surround encoded flag is ON or if Pro Logic decoding produces a better sound field.
- When set to “ON”, the receiver performs PRO LOGIC decoding on surround signals, regardless of the Dolby surround encoded flag.
- When set to “OFF”, the receiver does not perform PRO LOGIC decoding.

**Effect level (EFFECT)**
Initial setting : (depends on sound mode)
Lets you adjust the “presence” of the current surround effect.

**Wall type (WALL S_I_H)**
Initial setting : Midpoint
Lets you control the level of the high frequencies to alter the sonic character of your listening environment by simulating a softer (S) or harder (H) wall. The midpoint designates a neutral wall (made of wood).

**Reverberation (REVERB S_I_L)**
Initial setting : Midpoint
Lets you control the spacing of the early reflections to simulate a sonically longer (L) or shorter (S) room. The midpoint designates a standard room with no adjustment.

**Front reverberation (FRONT REVERB)**
Initial setting : STD
This parameter can be used when “DIGITAL CONCERT HALL A, B” is selected. This parameter lets you adjust the amount of reverberations to add to the front signals according to the original reverberations in the source.
- To increase front reverberations, select “WET”.
- To decrease front reverberations, select “DRY”.

**Screen depth (SCREEN DEPTH)**
Initial setting : MID
In a movie theater, sound seems to come from inside the image reflected on the movie screen. This parameter allows you to create the same sensation in your listening room by shifting the sound of the front speakers “into” the screen. “DEEP” provides the greatest amount of screen depth.

**Virtual speaker (VIR. SPEAKERS)**
Initial setting : ON
Allows you turn the virtual speakers created by the CINEMA STUDIO EX A, B, C and SEMI CINEMA STUDIO EX A, B, C sound fields off or on.

**Note**
Pro Logic decoding does not function for MPEG format signals.
Adjusting the level parameters

The LEVEL menu contains parameters that let you adjust the balance and speaker volumes of each speaker. The settings available in this menu are applied to all sound fields.

1. Start playing a program source encoded with multi channel surround sound.

2. Press LEVEL.
   The button lights up and the first parameter is displayed.

3. Press the cursor buttons (< or >) to select the parameter you want to adjust.

4. Turn the jog dial to select the setting you want.
   The setting is stored automatically.

Front balance (FRONT L_R)
Initial setting: Center
Lets you adjust the balance between the front left and right speakers.

Surround balance (SURROUND L_R)
Initial setting: Center
Lets you adjust the balance between the surround left and right speakers.

Center level (CENTR LEVEL XXX dB)
Initial setting: 0 dB
Lets you adjust the level of the center speaker.

Surround level (SURROUND LEVEL XXX dB)
Initial setting: 0 dB
Lets you adjust level of the surround (left and right) speakers.

Surround back level (SURR BACK LEVEL XXX dB)
Initial setting: 0 dB
Lets you adjust the level of the surround back speaker.

Sub woofer level (S. WOOFER LEVEL XXX dB)
Initial setting: 0 dB
Lets you adjust the level of the sub woofer.

Low Frequency Effect (LFE MIX XXX dB)
Initial setting: 0 dB
Lets you attenuate the level of the LFE (Low Frequency Effect) channel output from the sub woofer without affecting the level of the bass frequencies sent to the sub woofer from the front, center or surround channels via the Dolby Digital or DTS bass redirection circuitry.

- For LFE mix level, “0 dB” outputs the full LFE signal at the mix level determined by the recording engineer.
- To mute the sound of the LFE channel from the sub woofer, select “OFF”. However, the low frequency sounds of the front, center, or surround speakers are output from the sub woofer according to the settings made for each speaker in the speaker setup (pages 19 – 23).

Dynamic range compressor (D. RANGE COMP.)
Initial setting: OFF
Lets you compress the dynamic range of the sound track. This may be useful when you want to watch movies at low volumes late at night. We recommend using the “MAX” setting.

- To reproduce the sound track with no compression, select “OFF”.
- To reproduce the sound track with the dynamic range intended by the recording engineer, select “STD”.
- To compress the dynamic range in small steps to achieve the sound you desire, select “0.1 – “0.9”.
- To reproduce a dramatic compression of the dynamic range, select “MAX”.

Note
Dynamic range compression is possible with Dolby Digital sources only.
Customizing Sound Fields

Adjusting the equalizer

The EQ menu lets you adjust the equalization of the front, center, surround, and surround back speakers. The settings are stored individually for each sound field.

1 Start playing a program source encoded with multi channel surround sound.

2 Press EQ.
   The button lights up and the first parameter is displayed.

3 Press the cursor buttons (or ) to select the parameter (gain (dB), bandwidth, frequency (Hz)) you want to adjust.

4 Turn the jog dial to select the setting you want.
   The setting is entered automatically.

To turn on/off the equalizer

Press EQUALIZER. The EQ indicator in the display lights up when the equalizer is turned on. When you adjust the equalizer using the EQ parameters, the settings are stored separately for each sound field and can be reproduced whenever you turn on the equalizer.

Center speaker treble adjustment (Level/Frequency)

Lets you adjust the gain and frequency of treble.

Surround speaker bass adjustment (Level/Frequency)

Lets you adjust the gain and frequency of bass.

Surround speaker treble adjustment (Level/Frequency)

Lets you adjust the gain and frequency of treble.

Surround back speaker bass adjustment (Level/Frequency)

Lets you adjust the gain and frequency of bass.

Surround back speaker treble adjustment (Level/Frequency)

Lets you adjust the gain and frequency of treble.

Resetting customized sound fields to the factory settings

1 If the power is on, press l/1 to turn off the power.

2 Hold down SOUND FIELD MODE and press l/1.
   “S.F Initialize” appears in the display and all sound fields are reset at once.
**Adjustable parameters for each sound field**

The adjusted SURR and EQ parameters are stored in each sound field. The adjusted LEVEL parameters are applied to all the sound fields.

<table>
<thead>
<tr>
<th>2CH</th>
<th></th>
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<td>HEADPHONE (2CH)</td>
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<tr>
<td>HEADPHONE (DIRECT)</td>
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<tr>
<td>HEADPHONE THEATER</td>
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<td>●</td>
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</tr>
<tr>
<td>MULTI CH IN</td>
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<td>PCM96K</td>
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</tr>
</tbody>
</table>
### Adjusting parameters for each sound field (continued)

<table>
<thead>
<tr>
<th></th>
<th>LEVEL</th>
<th>CENTER</th>
<th>SURR</th>
<th>前沿平衡</th>
<th>SUB WOOFER</th>
<th>LFE MIX</th>
<th>D. RANGE COMP.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2CH</td>
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</table>

1) These parameters may not operate depending on the source or adjustments. For details, see each item in “Adjusting the level parameters” (page 37).

2) When these sound fields are selected, there is no sound output from the SUB WOOFER terminal if your front speaker size is set to “LARGE”. However, sound will be output from the subwoofer if the digital input signal contains L.F.E. signals.
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## Customizing Sound Fields

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</table>
You can tune in stations on this receiver in the following ways:

**Direct Tuning**
You can enter a frequency of the station you want directly by using the numeric buttons on the remote (see page 46).

**Automatic Tuning**
If you don’t know the frequency of the station you want, you can let the receiver scan all available stations in your area (see page 46).

**Preset Tuning**
After you have tuned in stations using Direct Tuning or Automatic Tuning, you can preset them to the receiver (see page 47). Then you can tune in any of the stations directly by entering its 2-character code (see page 47). Up to 30 FM or AM stations can be preset. The receiver will also scan all the stations that you have preset (see page 47).

Before you begin, make sure you have:
- Connected an FM and AM antenna to the receiver (see page 5).
Brief descriptions of buttons used to receive broadcasts

**PRESET TUNING +/-**: Press to scan all preset radio stations.

**TUNING +/-**: Press to scan all available radio stations.

**FM MODE**: If “STEREO” flashes in the display and the FM stereo reception is poor, press this button to improve the sound. You will not be able to enjoy stereo effect but the sound will be less distorted.

**Note**
If “STEREO” does not appear at all even when the FM broadcast is received normally, press this button to turn on the “STEREO” indication.

**FM**: Press to select the FM band.

**AM**: Press to select the AM band.

**MEMORY**: Uses for memorizing preset stations.

**SHIFT**: Press to select a memory page (A, B, or C) for presetting radio stations or tuning to preset stations.

**FUNCTION control**: Rotate to select the tuner or other source.

**On the remote:**

**D. TUNING**: Press this button to enter a frequency directly using the numeric buttons.

**Numeric buttons**: Press to enter a numeric value when inputting the frequency directly, presetting radio stations, or tuning to preset stations.
Direct Tuning

For details on the buttons used in this section, see “Brief descriptions of buttons used to receive broadcasts” on page 45.

1 Rotate FUNCTION to select the tuner.  
The last received station is tuned in.

2 Press FM or AM to select the FM or AM band.

3 Press D.TUNING on the remote.

4 Press the numeric buttons on the remote to enter the frequency.

   Example 1: FM 102.50 MHz
   1 → 0 → 2 → 5 → 0

   Example 2: AM 1350 kHz
   (You don’t have to enter the last “0” when the tuning interval is set to 10 kHz)
   1 → 3 → 5 → 0

   If you cannot tune in a station and the entered numbers flash
   Make sure you’ve entered the right frequency. If not, repeat Steps 3 and 4.
   If the entered numbers still flash, the frequency is not used in your area.

5 If you’ve tuned in an AM station, adjust the direction of the AM loop antenna for optimum reception.

6 Repeat Steps 2 to 5 to receive other stations.

   If you try to enter a frequency not covered by the tuning interval
   The entered value is automatically rounded up or down.

   Tuning intervals for direct tuning are:
   FM: 50 kHz
   AM: 10 kHz (to change to 9 kHz, see page 58.)

Automatic Tuning

For details on the buttons used in this section, see “Brief descriptions of buttons used to receive broadcasts” on page 45.

1 Rotate FUNCTION to select the tuner.  
The last received station is tuned in.

2 Press FM or AM to select the FM or AM band.

3 Press TUNING + or TUNING –. 
   Press the + button to scan from low to high; press the – button to scan from high to low.

   When the receiver reaches either end of the band
   Scanning is repeated in the same direction.

   The receiver stops scanning whenever a station is received.

4 To continue scanning, press TUNING + or TUNING – again.
Preset Tuning

For details on the buttons used in this section, see “Brief descriptions of buttons used to receive broadcasts” on page 45.

Before tuning to preset stations, be sure to preset them by performing steps on “Presetting radio stations” below.

### Presetting radio stations

1. **Rotate FUNCTION to select the tuner.**
   The last received station is tuned in.

2. **Tune in the station that you want to preset using Direct Tuning or Automatic Tuning (page 46).**

3. **Press MEMORY.**
   “MEMORY” appears in the display for a few seconds. Do Steps 4 to 6 before “MEMORY” goes out.

4. **Press SHIFT to select a memory page (A, B or C).**
   Each time you press SHIFT, the letter “A”, “B” or “C” appears in the display.

5. **Select a preset number by pressing PRESET TUNING + or PRESET TUNING –.**
   If “MEMORY” goes out before you press the preset number, start again from Step 3.

6. **Press MEMORY again to store the station.**
   If “MEMORY” goes out before you can store the station, start again from Step 3.

7. **Repeat Steps 2 to 6 to preset another station.**

To change a preset number to another station
Do Steps 1 to 6 to preset the new station to the number.

### Tuning to preset stations

You can tune the preset stations either of the following two ways.

#### Scanning the preset stations

1. **Rotate FUNCTION to select the tuner.**
   The last received stations is tuned in.

2. **Press PRESET TUNING + or PRESET TUNING – repeatedly to select the preset station you want.**
   Each time you press the button, the receiver tunes in one preset station at a time, in the corresponding order and direction as follows:

   ![preset scanning diagram]

   **Using the preset codes**

   1. **Rotate FUNCTION to select the tuner.**
      The last received stations is tuned in.

   2. **Press SHIFT to select a memory page (A, B or C), then press the preset number of the station you want using the numeric buttons on the supplied remote.**
Other Operations

Brief descriptions of buttons that appear in this chapter

NAME button: Press to name preset stations or program sources.

Jog dial: Use to select characters when naming preset stations or program sources.

Cursor buttons (<>): Use to move the cursor when naming preset stations or program sources.

FUNCTION control: Rotate to select the tuner or other source.

SET UP button: Press to enter the set up mode.

ENTER button: Press to enter the completed name of the preset station or program source.
Naming Preset Stations and Program Sources

You can enter a name (index name) of up to 8 characters for preset stations and program sources. These names (for example, “VHS”) appear in the receiver’s display when a station or program source is selected. Note that no more than one name can be entered for each preset station or program source. This function is useful for distinguishing components of the same kind. For example, two VCRs can be specified as “VHS” and “8MM”, respectively. It is also handy for identifying components connected to jacks meant for another type of component, for example, a second CD player connected to the MD/TAPE jacks.

1 To name a preset station
   Rotate FUNCTION to select the tuner.
   The last station you received is tuned in.

To name a program source
   Select the program source (component) to be named, then go to Step 3.

2 Tune in the preset station you want to create an index name for.
   If you are not familiar with how to tune in preset stations, see “Tuning to preset stations” on page 47.

3 Press NAME.

4 Create an index name by using the jog dial and cursor buttons:
   Turn the jog dial to select a character, then press \( \) to move the cursor to the next position.

   To insert a space
   Turn the jog dial until a blank space appears in the display (you can find the space character between “II” and “A”).

   If you’ve made a mistake
   Press \(<\) or \(>\) repeatedly until the character to be changed flashes, then turn the jog dial to select the right character.

5 Press ENTER.

To assign index names to other stations
   Repeat Steps 2 to 5.

Recording

Your receiver makes it easy to record to and from the components connected to it. You don’t have to connect the playback and recording components directly to each other: once you select a program source on the receiver, you can record and edit as you normally would using the controls on each component.

Before you begin, make sure you’ve connected all components properly.

Recording on an audio tape or MiniDisc

You can record on a cassette tape or MiniDisc using the receiver. Refer to the instruction manual of your cassette deck or MD deck if you need help.

1 Select the component to be recorded.

2 Prepare the component for playing.
   For example, insert a CD into the CD player.

3 Insert a blank tape or MD into the recording deck and adjust the recording level, if necessary.

4 Start recording on the recording deck, then start playback on the playback component.
### Recording

#### Recording on a video tape

You can record from a VCR, a TV, or an LD player using the receiver. You can also add audio from a variety of audio sources when editing a video tape. See your VCR or LD player’s instruction manual if you need help.

1. Select the program source to be recorded.

2. Prepare the component for playing.
   For example, insert the laser disc you want to record into the LD player.

3. Insert a blank video tape into the VCR (VIDEO 1 or VIDEO 2) for recording.

4. Start recording on the recording VCR, then start playing the video tape or laser disc you want to record.

You can record the sound from any audio source onto a video tape while recording from a video tape or laser disc.

Locate the point where you want to start recording from another audio source, select the program source, then start playback. The audio from that source will be recorded onto the audio track of the video tape instead of the audio from the original medium.

To resume audio recording from the original medium, select the video source again.

#### Notes

- Please be sure to make both digital and analog connections to the TV/SAT and DVD/LD inputs. Analog recording is not possible if you only make digital connections.
- Some sources contain copy guards to prevent recording. In this case, you may not be able to record from the sources.
- You cannot record a digital audio signal using a component connected to the analog TAPE OUT (STR-DE975 only) or MD/DAT OUT (STR-DE975 only) or MD/TAPE OUT (STR-DE875 only) jacks. To record a digital audio signal, connect a digital component to the DIGITAL MD/DAT OUT (STR-DE975 only) or DIGITAL MD/TAPE OUT (STR-DE875 only) jacks.
- Sound adjustments do not affect the signal output from the TAPE OUT (STR-DE975 only) or MD/DAT OUT (STR-DE975 only) or MD/TAPE OUT (STR-DE875 only) jacks.
- When MULTI/2CH A. DIRECT is set to MULTI DIRECT, audio signals are not output from REC OUT jacks.
- No signals output from DIGITAL OUT jacks (MD/DAT OPTICAL OUT (STR-DE975 only) or MD/TAPE OPTICAL OUT (STR-DE875 only) when you set MULTI/2CH A. DIRECT to 2CH A. DIRECT.

### Using the Sleep Timer

You can set the receiver to turn off automatically at a specified time.

Press SLEEP on the remote while the power is on.
Each time you press SLEEP, the time changes as shown below.

```
2:00:00 → 1:30:00 → 1:00:00 → 0:30:00 → OFF
```

The display dims after you have specified the time. While using Sleep Timer, “SLEEP” lights up in the display.

#### Tips

- You can freely specify the time. After pressing SLEEP, specify the time you want using the jog dial and cursor buttons ( or ) on the receiver. The sleep time changes in 1 second intervals. You can specify up to 5 hours.
- To check the remaining time before the receiver turns off, press SLEEP. The remaining time appears in the display.
Adjustment Using the SET UP Button

The SET UP button allows you to make the following adjustments other than specifying the speaker parameters.

6.1 CH DECODING
This parameter lets you enjoy the appropriate surround sound from the surround channels. The default setting is “AUTO”.

1. Press SET UP.
2. Press the cursor buttons ( or ) to select “6.1 CH DECODING”.
3. Turn the jog dial to select “AUTO”, “ON” or “OFF”.

Notes
- You can set this parameter using 6.1 CH DECODING on the front panel.
- When set to “AUTO”, the receiver performs 6.1 channel matrix decoding only if 6.1 channel signals decode flag is ON.
- When set to “ON”, the receiver performs 6.1 channel matrix decoding only if the surround signals are 2 channel, regardless of the 6.1 channel decode flag.
- When set to “OFF”, the receiver does not perform 6.1 channel matrix decoding.
- During “A.F.D.” this parameter is always set to “AUTO”, and you cannot change the setting.
- When the 6.1 channel matrix decoding is performed and the surround back speaker is set to “NO”, you can enjoy the surround back signals with Virtual 3D technology, even without an actual surround back speaker (the box around SB does not light up). If the surround back speaker is set to “YES”, the surround back signals are output through the actual speaker (SB lights up). Please note that you can set the surround back speaker only when the center speaker is set to “NO” (page 20).

Multi channel assignment
Lets you assign a function to MULTI CH. You cannot assign TUNER or PHONO.

1. Press SET UP.
2. Press the cursor buttons ( or ) to select “MULTI CH”.
3. Turn the jog dial to select “NONE”, “VIDEO 1”, “VIDEO 2”, “VIDEO 3” (STR-DE975 only), “DVD/LD”, “TV/SAT”, “MD/DAT” (STR-DE975 only), “TAPE” (STR-DE975 only), “MD/TAPE” (STR-DE875 only) and “CD/SACD”.

Sound Field Link
When set to “ON”, the sound field that was last applied to a program source is automatically applied whenever it is selected. For example, if you listen to CD with STADIUM as the sound field, change to a different program source, then return to CD, STADIUM will be applied again. If you do not want to use this function, set to “OFF”. The default setting is “ON”.

1. Press SET UP.
2. Press the cursor buttons ( or ) to select “S. FIELD LINK”.
3. Turn the jog dial to select “ON” or “OFF”.

Adjusting the CONTROL A1 auto power on
Lets you turn on the receiver automatically when the component connected via CONTROL A1 cords (see page 12) is turned on and the playback is started. When set to “OFF”, you can save the power consumption of the receiver during standby mode. The default setting is “ON”.

1. Press SET UP.
2. Press the cursor buttons ( or ) to select “AI AUTO POWER”.
3. Turn the jog dial to select “ON” or “OFF”.

Adjusting the CONTROL A1 auto function
Lets you switch the function of this receiver to the Sony components connected via CONTROL A1 cords (see page 12) automatically when the connected component is set to play mode. The default setting is “ON”.

1. Press SET UP.
2. Press the cursor buttons ( or ) to select “AUTO FUNCTION”.
3. Turn the jog dial to select “ON” or “OFF”.

Notes
- You can set this parameter using 6.1 CH DECODING on the front panel.
- When set to “AUTO”, the receiver performs 6.1 channel matrix decoding only if 6.1 channel signals decode flag is ON.
- When set to “ON”, the receiver performs 6.1 channel matrix decoding only if the surround signals are 2 channel, regardless of the 6.1 channel decode flag.
- When set to “OFF”, the receiver does not perform 6.1 channel matrix decoding.
- During “A.F.D.” this parameter is always set to “AUTO”, and you cannot change the setting.
- When the 6.1 channel matrix decoding is performed and the surround back speaker is set to “NO”, you can enjoy the surround back signals with Virtual 3D technology, even without an actual surround back speaker (the box around SB does not light up). If the surround back speaker is set to “YES”, the surround back signals are output through the actual speaker (SB lights up). Please note that you can set the surround back speaker only when the center speaker is set to “NO” (page 20).
Adjustment Using the SET UP Button

Selecting the command mode of the remote

Lets you select the command mode of the remote. Change the command mode when you use 2 Sony receivers in the same room. The default setting is “AV1”. For details, see “Selecting the mode of the remote” on page 65.

1 Press SET UP.

2 Press the cursor buttons ( or ) to select “COMMAND MODE”.

3 Turn the jog dial to select “AV1” or “AV2”.

Selecting the color of the on-screen display (STR-DE975 only)

Select the color of the on-screen display. You can select either “COLOR” or “MONOCHROME”. The default setting is “COLOR”.

1 Press SET UP.

2 Press the cursor buttons ( or ) to select “OSD”.

3 Turn the jog dial to select “COLOR” or “MONOCHROME”.

OSD horizontal position (STR-DE975 only)

This parameter lets you adjust the position of the on-screen display horizontally. The default setting is “4”.

1 Press SET UP.

2 Press the cursor buttons ( or ) to select “OSD H. POSITION”.

3 Turn the jog dial to select 0-64.

OSD vertical position (STR-DE975 only)

This parameter lets you adjust the position of the on-screen display vertically. The default setting is “4”.

1 Press SET UP.

2 Press the cursor buttons ( or ) to select “OSD V. POSITION”.

3 Turn the jog dial to select 0-32.
CONTROL A1 II Control System

Getting Started

This section explains the basic functions of the CONTROL A1 II Control System. Certain components have special functions, like “CD Synchro Dubbing” on cassette decks, that require CONTROL A1 II connections. For detailed information regarding specific operations, be sure to also refer to the Operating Instructions supplied with your component(s).

The CONTROL A1 II Control System was designed to simplify the operation of audio systems composed of separate Sony components. CONTROL A1 II connections provide a path for the transmission of control signals which enable automatic operation and control features usually associated with integrated systems. Currently, CONTROL A1 II connections between a Sony CD player, amplifier (receiver), MD deck and cassette deck provide automatic function selection and synchronized recording.

In the future the CONTROL A1 II connection will work as a multifunction bus allowing you to control various functions for each component.

Notes

• The CONTROL A1 II Control System is designed to maintain upward compatibility as the Control System is upgraded to handle new functions. In this case, however, older components will not be compatible with the new functions.
• Do not operate a 2 way remote control unit when the CONTROL A1 II jacks are connected via a PC interface kit to a personal computer running “MD Editor” or similar application. Also, do not operate the connected component in a manner contrary to the functions of the application, as this may cause the application to operate incorrectly.

CONTROL A1 II and CONTROL A1 compatibility

The CONTROL A1 control system has been updated to the CONTROL A1 II which is the standard system in the SONY 300 disc CD changer and other recent Sony components. Components with CONTROL A1 jacks are compatible with components with CONTROL A1 II, and can be connected to each other. Basically, the majority of the functions available with the CONTROL A1 control system will be available with the CONTROL A1 II control system.

However, when making connections between components with CONTROL A1 jacks and components with CONTROL A1 II jacks, the number of functions that can be controlled may be limited depending on the component. For detailed information, refer to the Operating Instructions supplied with the component(s).

Connections

Connect monaural (2P) mini-plug cords in series to the CONTROL A1 II jacks on the back of each component. You can connect up to ten CONTROL A1 II compatible components in any order. However, you can connect only one of each type of component (i.e., 1 CD player, 1 MD deck, 1 tape deck and 1 receiver). (You may be able to connect more than one CD player or MD deck, depending on the model. Refer to the operating instructions supplied with the respective component for details.)

Example

In the CONTROL A1 II control system, the control signals flow both ways, so there is no distinction of IN and OUT jacks. If a component has more than one CONTROL A1 II jack, you can use either one, or connect different components to each jack.

On CONTROL A1 jacks and connections

It is possible to make connections between CONTROL A1 and CONTROL A1 II jacks. For details regarding particular connections or setup options, refer to the Operating Instructions supplied with the component(s).

About the connecting cord

Some CONTROL A1 compatible components are supplied with a connecting cord as an accessory. In this case, use the connecting cord for your connection.

When using a commercially available cord, use a monaural (2P) mini-plug cord less than 2 meters long, with no resistance (like the Sony RK-G69HG).
CONTROL A1 II Control System

Basic Functions

The CONTROL A1 II functions will operate as long as the component you want to operate is turned on, even if all of the other connected components are not turned on.

Automatic function selection

When you connect a CONTROL A1 II compatible Sony amplifier (or receiver) to other Sony components using monaural mini-plug cords, the function selector on the amplifier (or receiver) automatically switches to the correct input when you press the play button on one of the connected components.

Notes

• You must connect a CONTROL A1 compatible amplifier (receiver) using a monaural mini-plug cord in order to take advantage of the automatic function selection feature.
• This function only works when the components are connected to the amplifier (or receiver) inputs according to the names on the function buttons. Certain receivers allow you to switch the names of the function buttons. In this case, refer to the Operating Instructions supplied with the receiver.
• When recording, do not play any components other than the recording source. It will cause the automatic function selection to operate.

Synchronized recording

This function lets you conduct synchronized recording between the selected source and recorder components.

1 Set the function selector on the amplifier (or receiver) to the source component.

2 Set the source component to pause mode (make sure both the ▶ and ✂ indicators light together).

3 Set the recorder component to the REC-PAUSE mode.

4 Press PAUSE on the recorder component.
   The source component is released from the pause mode, and recording begins shortly thereafter. When playback ends from the source component, recording stops.

Notes

• Do not set more than one component to the pause mode.
• Certain recorder components may be equipped with a special synchronized recording function that uses the CONTROL A1 II Control System, like “CD Synchro Dubbing”. In this case, refer to the Operating Instructions supplied with the recorder component.
Troubleshooting

If you experience any of the following difficulties while using the receiver, use this troubleshooting guide to help you remedy the problem. Also, see “Checking the connections” on page 24 to verify that the connections are correct. Should any problem persist, consult your nearest Sony dealer.

There’s no sound or only a very low-level sound is heard.

➤ Check that the speakers and components are connected securely.
➤ Make sure that you’ve selected the correct component on the receiver.
➤ Press SPEAKERS button if SP OFF appears on the display.
➤ Check that the headphones are not connected.
➤ Press MUTING if MUTING appears on the display.
➤ The protective device on the receiver has been activated because of a short circuit. Turn off the receiver, eliminate the short-circuit problem and turn on the power again.

The left and right sounds are unbalanced or reversed.

➤ Check that the speakers and components are connected correctly and securely.
➤ Adjust front balance parameter in the LEVEL menu.

Severe hum or noise is heard.

➤ Check that the speakers and components are connected securely.
➤ Check that the connecting cords are away from a transformer or motor, and at least 10 feet (3 meters) away from a TV set or fluorescent light.
➤ Move your TV away from the audio components.
➤ Make sure you’ve grounded SIGNAL GND terminal (only when a turntable is connected).
➤ The plugs and jacks are dirty. Wipe them with a cloth slightly moistened with alcohol.

There is intermittent sound from a digital source.

➤ Check to see if signals with 96 kHz sampling frequencies are input to the DVD/LD OPTICAL IN or COAXIAL jacks.

No sound is heard from the center speaker.

➤ Make sure the sound field function is on (press SOUND FIELD MODE).
➤ Select the appropriate center mode (see pages 31 – 33).
➤ Adjust the speaker volume (see page 23).
➤ Make sure the center speaker size parameter is set to either SMALL or LARGE (see page 20).
Troubleshooting

No sound or only a very low-level sound is heard from the surround speakers.
- Make sure the sound field function is on (press SOUND FIELD MODE).
- Select the appropriate center mode (see pages 31 – 33).
- Adjust the speaker volume (see page 23).
- Make sure the surround speaker size parameter is set to either SMALL or LARGE (see page 20).

No sound is heard from the sub woofer.
- Make sure the sub woofer is set to YES (see page 20).
- Check that 2CH mode has not been selected (see page 33).

Dolby Digital or DTS multi channel sound is not reproduced.
- Check that the playing DVD, etc. is recorded in Dolby Digital or DTS format.
- When connecting the DVD player, etc. to the digital input jacks of this receiver, check the audio setting (settings for the audio output) of the connected component.

Recording cannot be done.
- Check that the components are connected correctly.
- Select the source component by rotating FUNCTION control.
- When recording from a digital component, make sure the input mode is set to ANALOG 2CH FIXED (see page 27) before recording with a component connected to the analog MD/DAT or TAPE terminals (STR-DE975) or the analog MD/TAPE terminals (STR-DE875).
- When recording from a digital component, make sure the input mode is set to COAXIAL FIXED or OPTICAL FIXED (see page 27) before recording with the component connected to the DIGITAL MD/DAT OUT terminals (STR-DE975) or the DIGITAL MD/TAPE OUT terminals (STR-DE875).

Radio stations cannot be tuned in.
- Check that the antennas are connected securely.
- Adjust the antennas and connect an external antenna if necessary.
- The signal strength of the stations is too weak (when tuning in with automatic tuning). Use direct tuning.
- Make sure you set the tuning interval correctly (when tuning in AM stations with direct tuning) (see pages 46 and 58).
- No stations have been preset or the preset stations have been cleared (when tuning by scanning preset stations). Preset the stations (see page 47).
- Press DISPLAY so that the frequency appears in the display.

The surround effect cannot be obtained.
- Make sure the sound field function is on (press SOUND FIELD MODE).

Nothing appears on the display.
- When the display turns off after the receiver is turned on, press DIMMER to change the display mode.

No picture or an unclear picture appears on the TV screen or monitor.
- Select the appropriate function on the receiver.
- Set your TV to the appropriate input mode.
- Move your TV away from the audio components.

The remote does not function.
- Point the remote at the remote sensor on the receiver.
- Remove any obstacles in the path between the remote and the receiver.
- Replace both batteries in the remote with new ones, if they are weak.
- Make sure you select the correct function on the remote.
- If the remote is set to operate the TV only, use the remote to select a source or component other than TV before operating the receiver or other component.

Reference sections for clearing the receiver’s memory

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Additional Information
Specifications

**AUDIO POWER SPECIFICATIONS**

**POWER OUTPUT AND TOTAL HARMONIC DISTORTION:**
With 8 ohm loads, both channels driven, from 20 - 20,000 Hz; rated 110 watts (STR-DE975) and 100 watts (STR-DE875) per channel minimum RMS power, with no more than 0.09 % total harmonic distortion from 250 milliwatts to rated output (USA model only).

**Amplifier section**

**Rated Power Output at Stereo mode**
(8 ohms 20 Hz - 20 kHz, THD 0.09%)
- STR-DE975: 110 W + 110 W
- STR-DE875: 100 W + 100 W

**Reference Power Output**
(8 ohms at 1 kHz, THD 0.7%)
- STR-DE975:
  - Front: 110 W/ch
  - Center: 110 W
  - Surround: 110 W/ch
- STR-DE875:
  - Front: 100 W/ch
  - Center: 100 W
  - Surround: 100 W/ch

1) Depending on the sound field settings and sources, there may be no sound output.

**Frequency response**

- PHONO: RIAA equalization curve
  - ±0.5 dB
- MULTI CH IN,
  - CD/SACD,
  - MD/DAT*,
  - MD/TAPE**,
  - DVD/LD, TV/SAT,
  - VIDEO 1, VIDEO 2
  - VIDEO 3:
    - 10 Hz - 50 kHz +0.5/-2 dB (with sound field and equalizer bypassed)

**Inputs (Analog)**

**PHONO:**
- Sensitivity: 4.0 mV
- Impedance: 50 kilohms
- S/N: 86 dB
  (A, 4.0 mVb)

**MULTI CH IN,**
- CD/SACD,
- DVD/LD,
- MD/DAT*,
- MD/TAPE**,
- TV/SAT, VIDEO 1,
- VIDEO 2 VIDEO 3:
- Sensitivity: 250 mV
- Impedance: 50 kilohms
- S/N: 96 dB
  (A, 250 mVb)

*a) Input short.*
*b) Weighted network, input level.

**EQ**

- BASS: 99 Hz~1.0 kHz
  (21 steps)
- MID: 198 Hz~10 kHz
  (37 steps)
- TREBLE: 1.0 kHz~10 kHz
  (23 steps)
- Gain levels: +6/–10 dB, 1dB step

**Sampling Frequency**

- 48 kHz (TV/SAT, MD/DAT*, MD/TAPE** OPTICAL IN)
- 96 kHz (DVD/LD OPTICAL IN, COAXIAL IN)

**Outputs**

- MD/DAT*, MD/TAPE** (OUT);
- VIDEO 1, VIDEO 2:
  (AUDIO OUT):
  - Voltage: 250 mV,
  - Impedance: 10 kilohms
- SUB WOOFER:
  - Voltage: 2 V
  - Impedance: 1 kilohms
- PHONES:
  - Accepts low- and high-impedance headphones

**Inputs (Digital)**

- DVD/LD (coaxial):
  - Sensitivity: –
  - Impedance: 75 ohms
  - S/N: 100 dB
    (A, 20 kHz LPF)
- DVD/LD, TV/SAT,
  - MD/DAT*,
  - MD/TAPE**
  - (Optical):
  - Sensitivity: –
  - Impedance: –
  - S/N: 100 dB
    (A, 20 kHz LPF)

* STR-DE975 only
** STR-DE875 only
Specifications

**FM tuner section**

**Tuning range** 87.5 - 108.0 MHz

**Antenna terminals**
- 75 ohms, unbalanced

**Intermediate frequency**
- 10.7 MHz

**Sensitivity**
- Mono: 18.3 dBf, 2.2 µV/75 ohms
- Stereo: 38.3 dBf, 22.5 µV/75 ohms

**Usable sensitivity**
- 11.2 dBf, 1 µV/75 ohms

**S/N**
- Mono: 76 dB
- Stereo: 70 dB

**Harmonic distortion at 1 kHz**
- Mono: 0.3%
- Stereo: 0.5%

**Separation**
- 45 dB at 1 kHz

**Frequency response**
- 30 Hz - 15 kHz +0.5/–2 dB

**Selectivity**
- 60 dB at 400 kHz

**AM tuner section**

**Tuning range**
- With 10-kHz tuning scale: 530 - 1710 kHz
- With 9-kHz tuning scale: 531 - 1710 kHz

**Antenna**
- Loop antenna

**Intermediate frequency**
- 450 kHz

**Usable sensitivity**
- 50 dB/m (at 1,000 kHz or 999 kHz)

**S/N**
- 54 dB (at 50 mV/m)

**Video section**

**Inputs**
- Video: 1 Vp-p 75 ohms
- S-video:
  - Y: 1 Vp-p 75 ohms
  - C: 0.286 Vp-p 75 ohms

**Outputs**
- Video: 1 Vp-p 75 ohms
- S-video:
  - Y: 1 Vp-p 75 ohms
  - C: 0.286 Vp-p 75 ohms

**General**

**System**
- Tuner section: PLL quartz-locked digital synthesizer system
- Preamplifier section:
  - Low-noise NF type equalizer
  - Power amplifier section:
    - Pure-complementary SEPP

**Power requirements**
- 120 V AC, 60 Hz

**Harmonic distortion**
- 0.5% (50 mV/m, 400 Hz)

**Selectivity**
- At 9 kHz: 35 dB
- At 10 kHz: 40 dB

c) You can change the AM tuning interval to 9 kHz. After tuning in any AM station, turn off the receiver. Hold down the PRESET TUNING + button and press the V/ button. All preset stations will be erased when you change the tuning interval. To reset the scale to 10 kHz, repeat the procedure.

**Power consumption**

Models of area code U:
- STR-DE975: 270 W
  - In standby condition: 0.9 W
- STR-DE875: 260 W
  - In standby condition: 0.9 W

Models of area code CA:
- STR-DE975: 350 VA
  - In standby condition: 0.9 W
- STR-DE875: 340 VA
  - In standby condition: 0.9 W

**AC outlets**
- 2 switched, total 120 W/1A Max

**Dimensions**
- 430 x 157.5 x 369 mm (17 x 6 1/8 x 14 4/8 in.) including projecting parts and controls

**Mass (Approx.)**
- 9.5 kg (20 lbs. 16 oz.)

**Supplied accessories**
- See page 4.

For details on the area code of the component you are using, see page 3.

Design and specifications are subject to change without notice.
Glossary

Surround sound
Sound that consists of three elements: direct sound, early reflected sound (early reflections) and reverberative sound (reverberation). The acoustics of the surrounding space affect the way these three sound elements are heard. Surround sound combines these sound elements in such a way that you actually can sense the size of the venue, as well as its type.

• Types of sound

Dolby Digital
This sound format for movie theaters is more advanced than Dolby Pro Logic Surround. In this format, the surround speakers output stereo sound with an expanded frequency range and a sub woofer channel for deep bass is independently provided. This format is also called “5.1” because the sub woofer channel is counted as 0.1 channel (since it functions only when a deep bass effect is needed). All six channels in this format are recorded separately to realize superior channel separation. Furthermore, since all the signals are processed digitally, less signal degradation occurs.

Digital Cinema Sound
This is the generic name of the surround sound produced by digital signal processing technology developed by Sony. Unlike previous surround sound fields mainly directed at the reproduction of music, Digital Cinema Sound is designed specifically for the enjoyment of movies.

Dolby Pro Logic Surround
As one method of decoding Dolby Surround, Dolby Pro Logic Surround produces four channels from two-channel sound. Compared with the former Dolby Surround system, Dolby Pro Logic Surround reproduces left-to-right panning more naturally and localizes sounds more precisely. To take full advantage of Dolby Pro Logic Surround, you should have one pair of surround speakers and a center speaker. The surround speakers output monaural sound.
### Table of settings using Surr, Level, Eq, and Set Up buttons

You can make various settings using the LEVEL, Surr, EQ, Set Up buttons, jog dial, and cursor buttons. The tables below show each of the settings that these buttons can make.

<table>
<thead>
<tr>
<th>Press</th>
<th>Press &lt; or &gt; to select</th>
<th>Turn jog dial to select</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surr</td>
<td>Pro Logic</td>
<td>Auto, On, Off</td>
<td>36</td>
</tr>
<tr>
<td>Effect</td>
<td></td>
<td>Depends on sound field</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(21 steps)</td>
<td></td>
</tr>
<tr>
<td>Wall S I H</td>
<td></td>
<td>~8 to +8 (1 increment</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>steps)</td>
<td></td>
</tr>
<tr>
<td>Reverb S I L</td>
<td></td>
<td>~8 to +8 (1 increment</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>steps)</td>
<td></td>
</tr>
<tr>
<td>Front Reverb</td>
<td></td>
<td>Dry, Wet, Std</td>
<td></td>
</tr>
<tr>
<td>Screen Depth</td>
<td></td>
<td>Deep, Mid, Off</td>
<td></td>
</tr>
<tr>
<td>Vir. Speakers</td>
<td></td>
<td>On, Off</td>
<td></td>
</tr>
<tr>
<td>Level</td>
<td>Front L I R</td>
<td>~8 dB to +8 dB (1 dB</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td></td>
<td>steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Surround L I R</td>
<td>~8 dB to +8 dB (1 dB</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Center Level XXX dB</td>
<td>~10 dB to +10 dB (1 dB</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Surround Level XXX dB</td>
<td>~10 dB to +10 dB (1 dB</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Surr Back Level XXX dB</td>
<td>~10 dB to +10 dB (1 dB</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>S. Woofer Level XXX dB</td>
<td>~10 dB to +10 dB (1 dB</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lfe Mix XXX dB</td>
<td>Off, ~20 dB to 0 dB (1 dB</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>D. Range Comp.</td>
<td>Off, 0.1 to 0.9 (0.1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>steps), STD, MAX</td>
<td></td>
</tr>
<tr>
<td>Press</td>
<td>Press  &lt; or &gt; to select</td>
<td>Turn jog dial to select</td>
<td>Page</td>
</tr>
<tr>
<td>-----------</td>
<td>-------------------------</td>
<td>-------------------------</td>
<td>------</td>
</tr>
<tr>
<td>EQ</td>
<td>FRONT BASS GAIN</td>
<td>–10 dB to +10 dB (1 dB steps)</td>
<td>38</td>
</tr>
<tr>
<td></td>
<td>FRONT BASS FREQUENCY</td>
<td>99 Hz to 1.0 kHz (21 steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FRONT MID GAIN</td>
<td>–10 dB to +10 dB (1 dB steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FRONT MID FREQUENCY</td>
<td>198 Hz to 10.0 kHz (37 steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FRONT TREBLE GAIN</td>
<td>–10 dB to +10 dB (1 dB steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FRONT TREBLE FREQUENCY</td>
<td>1.0 kHz to 10 kHz (23 steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CENTER BASS GAIN</td>
<td>–10 dB to +10 dB (1 dB steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CENTER BASS FREQUENCY</td>
<td>99 Hz to 1.0 kHz (21 steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CENTER MID GAIN</td>
<td>–10 dB to +10 dB (1 dB steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CENTER MID FREQUENCY</td>
<td>198 Hz to 10 kHz (37 steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CENTER TREBLE GAIN</td>
<td>–10 dB to +10 dB (1 dB steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CENTER TREBLE FREQUENCY</td>
<td>1.0 kHz to 10 kHz (23 steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SURROUND BASS GAIN</td>
<td>–10 dB to +10 dB (1 dB steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SURROUND BASS FREQUENCY</td>
<td>99 Hz to 1.0 kHz (21 steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SURROUND TREBLE GAIN</td>
<td>–10 dB to +10 dB (1 dB steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SURROUND TREBLE FREQUENCY</td>
<td>1.0 kHz to 10 kHz (23 steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SURROUND BACK BASS GAIN</td>
<td>–10 dB to +10 dB (1 dB steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SURROUND BACK BASS FREQUENCY</td>
<td>99 Hz to 1.0 kHz (21 steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SURROUND BACK TREBLE GAIN</td>
<td>–10 dB to +10 dB (1 dB steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SURROUND BACK TREBLE FREQUENCY</td>
<td>1.0 kHz to 10 kHz (23 steps)</td>
<td></td>
</tr>
<tr>
<td>Press</td>
<td>Press &lt; or &gt; to select</td>
<td>Turn jog dial to select</td>
<td>Page</td>
</tr>
<tr>
<td>------------------------</td>
<td>------------------------</td>
<td>-------------------------</td>
<td>------</td>
</tr>
<tr>
<td>SET UP button</td>
<td>FRONT</td>
<td>LARGE, SMALL</td>
<td>19</td>
</tr>
<tr>
<td></td>
<td>CENTER</td>
<td>LARGE, SMALL, NO</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SURROUND</td>
<td>LARGE, SMALL, NO</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Surr Back</td>
<td>LARGE, SMALL, NO</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sub WOOFER</td>
<td>YES, NO</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Front XX.X feet</td>
<td>3 feet to 40 feet (1 foot steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Center XX.X feet</td>
<td>3 feet to 40 feet (1 foot steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Surround XX.X feet</td>
<td>3 feet to 40 feet (1 foot steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Surr Back XX.X feet</td>
<td>3 feet to 40 feet (1 foot steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sub WOOFER XX.X feet</td>
<td>3 feet to 40 feet (1 foot steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>S.W Phase</td>
<td>NORMAL, REVERSE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Distance Unit</td>
<td>feet, meter</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Surr Posi.</td>
<td>SIDE, MIDDLE, BEHIND</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Surr Height</td>
<td>HIGH, LOW</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Surr Back Hgt.</td>
<td>HIGH, LOW</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Front SP &gt; XXX Hz(^1)</td>
<td>40 Hz to 200 Hz (10 Hz steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Center SP &gt; XXX Hz(^1)</td>
<td>40 Hz to 200 Hz (10 Hz steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Surround SP &gt; XXX Hz(^1)</td>
<td>40 Hz to 200 Hz (10 Hz steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Surr Back SP &gt; XXX Hz(^1)</td>
<td>40 Hz to 200 Hz (10 Hz steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lfe High Cut &gt; XXX Hz(^1)</td>
<td>40 Hz to 200 Hz (10 Hz steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6.1CH Decoding</td>
<td>AUTO, ON, OFF</td>
<td>51</td>
</tr>
<tr>
<td></td>
<td>Multi Ch</td>
<td>NONE, Every functions (except for TUNER and PHONO)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>S.Field Link</td>
<td>ON, OFF</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A1 Auto Power</td>
<td>ON, OFF</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Auto Function</td>
<td>ON, OFF</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Command Mode</td>
<td>AV1, AV2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Osd(^2)</td>
<td>Color, Monochrome</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Osd H. Position(^2)</td>
<td>0 to 64 (1 steps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Osd V. Position(^2)</td>
<td>0 to 32 (1 steps)</td>
<td></td>
</tr>
</tbody>
</table>

\(^1\) When the speakers are set to SMALL only.

\(^2\) STR-DE975 only.
Remote Button Description

You can use the remote to operate the components in your system. The tables below show the settings of each button common to both remote RM-PP505 and RM-PP505L.

<table>
<thead>
<tr>
<th>Remote Button</th>
<th>Operations</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLEEP</td>
<td>Receiver</td>
<td>Activates the sleep function and the duration which the receiver turns off automatically.</td>
</tr>
<tr>
<td>AV I/Ø</td>
<td>TV/VCR/CD player/DVD player/MD deck/VCD player/LD player/DAT deck</td>
<td>Turns the audio and video components on or off.</td>
</tr>
<tr>
<td>I/Ø</td>
<td>Receiver</td>
<td>Turns the receiver on or off.</td>
</tr>
<tr>
<td>VIDEO 1</td>
<td>Receiver</td>
<td>To watch VCR. (VTR mode 3)</td>
</tr>
<tr>
<td>VIDEO 2</td>
<td>Receiver</td>
<td>To watch VCR. (VTR mode 1)</td>
</tr>
<tr>
<td>VIDEO 3</td>
<td>Receiver</td>
<td>To watch VCR. (VTR mode 2) (STR-DE975 only)</td>
</tr>
<tr>
<td>DVD/LD</td>
<td>Receiver</td>
<td>To watch DVD or laser disc.</td>
</tr>
<tr>
<td>TV/SAT</td>
<td>Receiver</td>
<td>To watch TV programs or satellite receiver.</td>
</tr>
<tr>
<td>CD/SACD</td>
<td>Receiver</td>
<td>To listen to compact disc.</td>
</tr>
<tr>
<td>PHONO</td>
<td>Receiver</td>
<td>To listen to radio programs.</td>
</tr>
<tr>
<td>AV 1</td>
<td>Remote</td>
<td>Select the mode of the remote.</td>
</tr>
<tr>
<td>AV 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2ND ROOM (STR-DE975 only)</td>
<td>Receiver</td>
<td>Use with “SHIFT” button to select tuner preset station numeric input during DIRECT TUNING or MEMORY mode.</td>
</tr>
<tr>
<td>0-9</td>
<td>Receiver</td>
<td>CD player/MD deck/VCD player/LD player/DAT deck</td>
</tr>
<tr>
<td>&gt;10</td>
<td>CD player/MD deck/Tape deck/LD player/VCD player</td>
<td>Selects tracks numbers over 10.</td>
</tr>
<tr>
<td>ENTER</td>
<td>Receiver</td>
<td>After selecting a channel, disc or track using the numeric buttons, press to enter the value.</td>
</tr>
<tr>
<td>SHIFT</td>
<td>Receiver</td>
<td>Press repeatedly to select a memory page for presetting radio stations or tuning to preset stations.</td>
</tr>
<tr>
<td>D.TUNING</td>
<td>Receiver</td>
<td>Tuner station direct key-in mode.</td>
</tr>
<tr>
<td>&lt;&lt;/&gt;&gt;</td>
<td>CD player/MD deck/DVD player/LD player/VCD player/Tape deck/VCR/DAT deck</td>
<td>Skips tracks.</td>
</tr>
<tr>
<td>&lt;&lt;/&gt;&gt;</td>
<td>CD player/DVD player/MD deck/Tape deck/VCR/LD player/DAT deck</td>
<td>Searches tracks (forward or backward).</td>
</tr>
<tr>
<td></td>
<td>CD player/DVD player/MD deck/MD deck/Tape deck/VCR/DVD player/VCD player/LD player/DAT deck</td>
<td>Fastforwards or rewinds.</td>
</tr>
<tr>
<td>▼</td>
<td>Tape deck</td>
<td>Starts play on the reverse side.</td>
</tr>
<tr>
<td>▶</td>
<td>CD player/MD deck/Tape deck/VCR/DVD player/VCD player/LD player/DAT deck</td>
<td>Starts play.</td>
</tr>
<tr>
<td>●</td>
<td>CD player/MD deck/Tape deck/VCR/DVD player/VCD player/LD player/DAT deck</td>
<td>Pauses play or record. (Also starts recording with components in record standby.)</td>
</tr>
<tr>
<td>■</td>
<td>CD player/MD deck/Tape deck/VCR/DVD player/VCD player/LD player/DAT deck</td>
<td>Stops play.</td>
</tr>
</tbody>
</table>
### Remote Button Description

<table>
<thead>
<tr>
<th>Remote Button</th>
<th>Operations</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>DISC</td>
<td>CD player/VCD player</td>
<td>Select discs (multi-disc changer only).</td>
</tr>
<tr>
<td>D. SKIP/CH/RESET +/−</td>
<td>Receiver</td>
<td>Scans and selects preset stations.</td>
</tr>
<tr>
<td></td>
<td>TV/VCR/SAT</td>
<td>Selects preset channels.</td>
</tr>
<tr>
<td></td>
<td>CD player/VCD player/MD deck</td>
<td>Skips discs (multi-disc changer only).</td>
</tr>
<tr>
<td>MONITOR</td>
<td>TV</td>
<td>Press to activate TV control buttons. Press again to restore original category.</td>
</tr>
<tr>
<td>TV/VIDEO</td>
<td>TV/VCR</td>
<td>Selects input signal: TV input or video input.</td>
</tr>
<tr>
<td>SEARCH MODE</td>
<td>DVD player</td>
<td>Selects searching mode.</td>
</tr>
<tr>
<td>CLEAR</td>
<td>DVD player</td>
<td>Press if you made a mistake when you press the number button.</td>
</tr>
<tr>
<td></td>
<td>VCD player</td>
<td>Press to go back to the previous menu.</td>
</tr>
<tr>
<td>WIDE</td>
<td>TV</td>
<td>Selects the wide picture mode.</td>
</tr>
<tr>
<td></td>
<td>TV/VCR</td>
<td>Selects the channel entry mode, either one or two digit.</td>
</tr>
<tr>
<td>ANT TV/VTR</td>
<td>VCR</td>
<td>Selects output signal from the aerial terminal: TV signal or VCR program.</td>
</tr>
<tr>
<td>JUMP</td>
<td>TV</td>
<td>Toggles between the previous and the current channels.</td>
</tr>
<tr>
<td>SUB CH +/-*</td>
<td>TV</td>
<td>Selects preset channels for the small picture.</td>
</tr>
<tr>
<td>VOL +/-</td>
<td>TV</td>
<td>Adjust the volume of TV.</td>
</tr>
<tr>
<td>POSITION*</td>
<td>TV</td>
<td>Changes the position of the small picture.</td>
</tr>
<tr>
<td>MUTING (with PAUSE)</td>
<td>TV</td>
<td>Mutes the sound from TV.</td>
</tr>
<tr>
<td>SWAP*</td>
<td>TV</td>
<td>Swaps the small and the large picture.</td>
</tr>
<tr>
<td>P IN P*</td>
<td>TV</td>
<td>Activates the picture-in-picture function.</td>
</tr>
<tr>
<td>A. F. D.</td>
<td>Receiver</td>
<td>Auto Format Decoding.</td>
</tr>
<tr>
<td>MODE +/-</td>
<td>Receiver</td>
<td>Selects sound field mode.</td>
</tr>
<tr>
<td>2CH</td>
<td>Receiver</td>
<td>Selects 2CH mode.</td>
</tr>
<tr>
<td>PRESET</td>
<td>Receiver</td>
<td>Selects CINEMA STUDIO EX A, B, C, DIGITAL CONCERT HALL A or B.</td>
</tr>
<tr>
<td>TEST TONE</td>
<td>Receiver</td>
<td>Press to output test tone.</td>
</tr>
<tr>
<td>EQ/TONE</td>
<td>Receiver</td>
<td>EQ ON/OFF.</td>
</tr>
<tr>
<td>MULT/2CH A. DIRECT</td>
<td>Receiver</td>
<td>Selects MULTI CH IN and 2CH ANALOG DIRECT source.</td>
</tr>
<tr>
<td>MUTING</td>
<td>Receiver</td>
<td>Mutes the sound from the receiver.</td>
</tr>
<tr>
<td>AV DISPLAY</td>
<td>TV/VCR/LD player/DVD player/VCD player</td>
<td>Selects information displayed on the TV screen.</td>
</tr>
<tr>
<td>TITLE/GUIDE</td>
<td>DVD player VCR/SAT</td>
<td>Displays title and guide.</td>
</tr>
<tr>
<td>AV MENU</td>
<td>DVD player VCR/SAT</td>
<td>Displays menu.</td>
</tr>
<tr>
<td>ON SCREEN (STR-DE975 only)</td>
<td>Receiver</td>
<td>To display the menus of the receiver on the TV screen.</td>
</tr>
<tr>
<td>MAIN MENU</td>
<td>Receiver</td>
<td>Press this button repeatedly to select one of the five cursor modes: LEVEL, SURROUND, EQ, NAME and SET UP.</td>
</tr>
<tr>
<td></td>
<td>DVD player VCR/SAT</td>
<td>Selects a menu item.</td>
</tr>
<tr>
<td></td>
<td>DVD player VCR/SAT</td>
<td>Selects a menu item.</td>
</tr>
<tr>
<td></td>
<td>Receiver</td>
<td>Makes adjustment or change the setting.</td>
</tr>
<tr>
<td>ENTER/EXEC</td>
<td>DVD player VCR/SAT</td>
<td>Enters the selection.</td>
</tr>
<tr>
<td>EXIT/RETURN</td>
<td>DVD player VCR/SAT</td>
<td>Returns to the previous menu or exits the menu.</td>
</tr>
<tr>
<td>MASTER VOL +/-</td>
<td>Receiver</td>
<td>Adjusts the master volume of the receiver.</td>
</tr>
</tbody>
</table>

* Only for Sony TVs with the picture-in-picture function.

### RM-PP505 only

<table>
<thead>
<tr>
<th>Remote Button</th>
<th>Operations</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUX</td>
<td>Receiver</td>
<td>To listen to an audio equipment.</td>
</tr>
<tr>
<td>MD/TAPE</td>
<td>Receiver</td>
<td>To listen to Minidisc or audio tape.</td>
</tr>
<tr>
<td>INPUT MODE</td>
<td>Receiver</td>
<td>Selects input mode for your digital components.</td>
</tr>
</tbody>
</table>

### Notes
- Some functions explained in this section may not work depending on the model of the receiver.
- The above explanation is intended to serve as an example only. Therefore, depending on the component the above operation may not be possible or may operate differently than described.
- The /10, /11, 3RD, NIGHT MODE and AUDIO SPLIT functions are not available for set operation.
RM-PP505L only

<table>
<thead>
<tr>
<th>Remote Button</th>
<th>Operations</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAPE</td>
<td>Receiver</td>
<td>To listen to audio tape.</td>
</tr>
<tr>
<td>MD/DAT</td>
<td>Receiver</td>
<td>To listen to Minidisc or DAT.</td>
</tr>
<tr>
<td>MACRO 1</td>
<td>Receiver</td>
<td>To perform several commands in sequence automatically.</td>
</tr>
<tr>
<td>MACRO 2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes
- Some functions explained in this section may not work depending on the model of the receiver.
- The above explanation is intended to serve as an example only. Therefore, depending on the component the above operation may not be possible or may operate differently than described.
- The /10, /11, /12, 3RD, NIGHT MODE and AUDIO SPLIT functions are not available for set operation.

RM-PP505 and RM-PP505L

Selecting the mode of the remote

Set the remote mode using the USE MODE button and the remote mode buttons.

Selecting the command mode

You can switch the command mode (AV1 or AV2) of the remote. If the command mode of the receiver and the remote is different, you cannot use the remote to operate the receiver.

Press 1 (AV1) (or 2 (AV2)) while pressing down USE MODE.
The indicator lights once (twice for AV2), then the command mode switches.

Setting to the 2nd room mode. (STR-DE975 only)

You can use the remote to select the function for the 2nd room (2nd room mode). You can use the function buttons only for the 2nd room.

Press 2ND ROOM while pressing down USE MODE.
(STR-DE975 only)
The indicator lights for a while, then the mode switches to the 2nd room mode.

Tips (STR-DE975 only)
- If you press a function button while pressing down 2ND ROOM, you can select the function for the 2nd room even though the mode is not set to the 2nd room mode.
- If you press 2ND ROOM only, you can output the source signal of the current function of the receiver to the amplifier in the 2nd room.

To check the mode of the remote

Press USE MODE. You can check the remote by the indicator.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Indicator lights</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV1</td>
<td>once</td>
</tr>
<tr>
<td>AV2</td>
<td>twice</td>
</tr>
<tr>
<td>2nd room (STR-DE975 only)</td>
<td>once (for a while)</td>
</tr>
</tbody>
</table>

To reset the remote to factory settings

Press 1/10, 2/11, and MASTER VOL – at the same time.
The indicator lights 3 times, then goes off.
Remote Button Description

Programming the remote
You can program the remote to control non-Sony components by changing the code. Once the control signals have been memorized, you can use those components as part of your system. Furthermore, you can also program the remote for Sony components that the remote is unable to control. Note that the remote can only control components that accept infrared wireless control signals.

Note
When you assign a component to the MONITOR button, you can operate the programmed component without changing the function of the receiver.

1. Press AV \( I/\) while pressing down USE MODE.
   The indicator lights.

2. Press the function button (including MONITOR) for the component you want to control.
   For example, if you are going to control a CD player, press CD.

3. Press the numeric buttons to enter the numeric code (or one of the codes if more than one code exists) corresponding to the component and the maker of the component you want to control.
   See the tables on pages 67 and 68 for information on the numeric code(s) corresponding to the component and the maker of the component (the first digit and the last two digits of the numeric code correspond to the category and the maker’s code respectively.)

4. Press ENTER.
   Once the numeric code has been verified, the indicator slowly flashes twice and the remote automatically exits the programming mode.

5. Repeat steps 1 to 4 to control other components.

To cancel programming
Press USE MODE during any step. The remote automatically exits the programming mode.

To activate the function after programming.
Press the programmed button to activate the function you want.

If programming is unsuccessful, check the following:
• If the indicator does not light up in step 1, the batteries are weak. Replace both batteries.
• If the indicator flashes 4 times in quick succession while entering the numeric code, an error has occurred. Start again from step 1.

Notes
• The indicator turns off while a valid button is pressed.
• In step 2, if several function buttons are pressed, only the last pressed button is valid.
• In step 3, if a function button is pressed, the new function is selected and the programming procedure returns to the beginning of step 3.
• For the numeric codes, only the first three numbers entered are valid.

To clear the memory of the remote
To clear all programmed and learned signals, do the following to reset the remote to factory settings.

Press I/\(1\), AV I/\(1\) and MASTER VOL – at the same time.
The indicator flashes 3 times, then goes off.

The numeric codes corresponding to the component and the maker of the component
Use the numeric codes in the tables below to control non-Sony components and also Sony components that the remote is normally unable to control. Since the remote signal that a component accepts differs depending on the model and year of the component, more than one numeric code may be assigned to a component. If you fail to program your remote using one of the codes, try using other codes.

Notes
• The numeric codes are based on the latest information available for each brand. There is a chance, however, that your component will not respond to some or all of the codes.
• All of the functions on this remote may not be available when used with your particular component.
<table>
<thead>
<tr>
<th>To control a CD player</th>
<th>Maker</th>
<th>Code(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SONY</td>
<td>101, 102, 103</td>
<td></td>
</tr>
<tr>
<td>DENON</td>
<td>104, 123</td>
<td></td>
</tr>
<tr>
<td>JVC</td>
<td>105, 106, 107</td>
<td></td>
</tr>
<tr>
<td>KENWOOD</td>
<td>108, 109, 110</td>
<td></td>
</tr>
<tr>
<td>MAGNAVOX</td>
<td>111, 116</td>
<td></td>
</tr>
<tr>
<td>MARANTZ</td>
<td>116</td>
<td></td>
</tr>
<tr>
<td>ONKYO</td>
<td>112, 113, 114</td>
<td></td>
</tr>
<tr>
<td>PANASONIC</td>
<td>115</td>
<td></td>
</tr>
<tr>
<td>PHILIPS</td>
<td>116</td>
<td></td>
</tr>
<tr>
<td>PIONEER</td>
<td>117</td>
<td></td>
</tr>
<tr>
<td>TECHNICS</td>
<td>115, 118, 119</td>
<td></td>
</tr>
<tr>
<td>YAMAHA</td>
<td>120, 121, 122</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>To control an LD player</th>
<th>Maker</th>
<th>Code(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SONY</td>
<td>601, 602, 603</td>
<td></td>
</tr>
<tr>
<td>PIONEER</td>
<td>606</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>To control a video CD player</th>
<th>Maker</th>
<th>Code(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SONY</td>
<td>605</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>To control a VCR</th>
<th>Maker</th>
<th>Code(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SONY</td>
<td>701, 702, 703, 704, 705, 706</td>
<td></td>
</tr>
<tr>
<td>AIWA</td>
<td>710, 750, 757, 758</td>
<td></td>
</tr>
<tr>
<td>AKAI</td>
<td>707, 708, 709, 759</td>
<td></td>
</tr>
<tr>
<td>BLAUPUNKT</td>
<td>740</td>
<td></td>
</tr>
<tr>
<td>EMERSON</td>
<td>711, 712, 713, 714, 715, 716, 750</td>
<td></td>
</tr>
<tr>
<td>FISHER</td>
<td>717, 718, 719, 720</td>
<td></td>
</tr>
<tr>
<td>GENERAL ELECTRIC</td>
<td>721, 722, 730</td>
<td></td>
</tr>
<tr>
<td>GOLDSTAR</td>
<td>723, 753</td>
<td></td>
</tr>
<tr>
<td>GRUNDIG</td>
<td>724</td>
<td></td>
</tr>
<tr>
<td>HITACHI</td>
<td>722, 725, 729, 741</td>
<td></td>
</tr>
<tr>
<td>ITT/NOKIA</td>
<td>717</td>
<td></td>
</tr>
<tr>
<td>JVC</td>
<td>726, 727, 728, 736</td>
<td></td>
</tr>
<tr>
<td>MAGNAVOX</td>
<td>730, 731, 738</td>
<td></td>
</tr>
<tr>
<td>MITSUBISHI/MGA</td>
<td>732, 733, 734, 735</td>
<td></td>
</tr>
<tr>
<td>NEC</td>
<td>736</td>
<td></td>
</tr>
<tr>
<td>PANASONIC</td>
<td>729, 730, 737, 738, 739, 740</td>
<td></td>
</tr>
<tr>
<td>PHILIPS</td>
<td>729, 730, 731</td>
<td></td>
</tr>
<tr>
<td>PIONEER</td>
<td>729</td>
<td></td>
</tr>
<tr>
<td>RCA/PROSCAN</td>
<td>722, 729, 730, 731, 741, 747</td>
<td></td>
</tr>
<tr>
<td>SAMSUNG</td>
<td>742, 743, 744, 745</td>
<td></td>
</tr>
<tr>
<td>SANYO</td>
<td>717, 720, 746</td>
<td></td>
</tr>
<tr>
<td>SHARP</td>
<td>748, 749</td>
<td></td>
</tr>
<tr>
<td>TELEFUNKEN</td>
<td>751, 752</td>
<td></td>
</tr>
<tr>
<td>TOSHIBA</td>
<td>747, 755, 756</td>
<td></td>
</tr>
<tr>
<td>ZENITH</td>
<td>754</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>To control a DAT deck</th>
<th>Maker</th>
<th>Code(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SONY</td>
<td>203</td>
<td></td>
</tr>
<tr>
<td>PIONEER</td>
<td>219</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>To control an MD deck</th>
<th>Maker</th>
<th>Code(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SONY</td>
<td>301</td>
<td></td>
</tr>
<tr>
<td>DENON</td>
<td>302</td>
<td></td>
</tr>
<tr>
<td>JVC</td>
<td>303</td>
<td></td>
</tr>
<tr>
<td>KENWOOD</td>
<td>304</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>To control a tape deck</th>
<th>Maker</th>
<th>Code(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SONY</td>
<td>201, 202</td>
<td></td>
</tr>
<tr>
<td>DENON</td>
<td>204, 205</td>
<td></td>
</tr>
<tr>
<td>KENWOOD</td>
<td>206, 207, 208, 209</td>
<td></td>
</tr>
<tr>
<td>NAKAMICHI</td>
<td>210</td>
<td></td>
</tr>
<tr>
<td>PANASONIC</td>
<td>216</td>
<td></td>
</tr>
<tr>
<td>PHILIPS</td>
<td>211, 212</td>
<td></td>
</tr>
<tr>
<td>PIONEER</td>
<td>213, 214</td>
<td></td>
</tr>
<tr>
<td>TECHNICS</td>
<td>215, 216</td>
<td></td>
</tr>
<tr>
<td>YAMAHA</td>
<td>217, 218</td>
<td></td>
</tr>
</tbody>
</table>
Remote Button Description

To control a DVD player

<table>
<thead>
<tr>
<th>Maker</th>
<th>Code(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SONY</td>
<td>401</td>
</tr>
<tr>
<td>PANASONIC</td>
<td>402, 406</td>
</tr>
<tr>
<td>PHILIPS</td>
<td>407</td>
</tr>
<tr>
<td>PIONEER</td>
<td>403</td>
</tr>
<tr>
<td>TOSHIBA</td>
<td>404</td>
</tr>
<tr>
<td>DENON</td>
<td>405</td>
</tr>
</tbody>
</table>

To control a TV

<table>
<thead>
<tr>
<th>Maker</th>
<th>Code(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SONY</td>
<td>501</td>
</tr>
<tr>
<td>DAEWOO</td>
<td>504, 505, 506, 507, 515, 544</td>
</tr>
<tr>
<td>FISHER</td>
<td>508</td>
</tr>
<tr>
<td>GOLDSTAR</td>
<td>503, 511, 512, 515, 534, 544</td>
</tr>
<tr>
<td>GRUNDIG</td>
<td>517, 534</td>
</tr>
<tr>
<td>HITACHI</td>
<td>513, 514, 515, 544</td>
</tr>
<tr>
<td>ITT/NOKIA</td>
<td>521, 522</td>
</tr>
<tr>
<td>JVC</td>
<td>516</td>
</tr>
<tr>
<td>MAGNAVOX</td>
<td>503, 518, 544</td>
</tr>
<tr>
<td>MITSUBISHI/MGA</td>
<td>503, 519, 544</td>
</tr>
<tr>
<td>NEC</td>
<td>503, 520, 544</td>
</tr>
<tr>
<td>PANASONIC</td>
<td>509, 524</td>
</tr>
<tr>
<td>PHILIPS</td>
<td>515, 518</td>
</tr>
<tr>
<td>PIONEER</td>
<td>509, 525, 526, 540</td>
</tr>
<tr>
<td>RCA/PROSCAN</td>
<td>510, 527, 528, 529, 544</td>
</tr>
<tr>
<td>SAMSUNG</td>
<td>503, 515, 531, 532, 533, 534, 544</td>
</tr>
<tr>
<td>SANYO</td>
<td>508, 545</td>
</tr>
<tr>
<td>SHARP</td>
<td>535</td>
</tr>
<tr>
<td>TELEFUNKEN</td>
<td>523, 536, 537, 538</td>
</tr>
<tr>
<td>THOMSON</td>
<td>530, 537, 539</td>
</tr>
<tr>
<td>TOSHIBA</td>
<td>535, 540, 541</td>
</tr>
<tr>
<td>ZENITH</td>
<td>542, 543</td>
</tr>
</tbody>
</table>

To control a satellite tuner or cable box

<table>
<thead>
<tr>
<th>Maker</th>
<th>Code(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SONY</td>
<td>801, 802, 803</td>
</tr>
<tr>
<td>JERROLD/G.I.</td>
<td>806, 807, 808, 809, 810, 811, 812, 813, 814</td>
</tr>
<tr>
<td>PANASONIC</td>
<td>818</td>
</tr>
<tr>
<td>RCA</td>
<td>804, 805</td>
</tr>
<tr>
<td>S. ATLANTA</td>
<td>815, 816, 817</td>
</tr>
</tbody>
</table>

RM-PP505L only

Learning the commands of your components

By using the Learning function, it is possible for this remote to perform learned commands.
**Setting remote control codes that are not stored in the remote**

When a remote control code is not one of the presets stored in the remote, it is possible for the remote to learn the code using the Learning function.

1. **Press SLEEP while pressing down USE MODE.**
   The indicator lights.

2. **Press the function button for the component you want to learn functions for.**
   For example, if you are going to learn an operation for a CD player, press CD.

3. **Press the button you want to use for the Learning function.**
   The indicator turns off while a valid button is pressed, then blinks slowly.

4. **Point the remote control code receiver section of the remote toward the receiver/transmitter on the remote control to be learned.**

5. **Press the appropriate button on the remote control to be learned to send the remote button code.**
   Lightly pressing the button once should be sufficient.
   If learning is completed successfully, the indicator slowly flashes twice and the remote automatically exits the learning mode.
   When learning is not completed successfully, the indicator flashes 4 times in quick succession and the procedure returns to step 5.
   If the memory of the remote is already full, the indicator flashes 8 times in quick succession and the remote automatically exits the learning mode.

**Notes**
- You can program up to 80 buttons for the Learning function. In some cases, you may not be able to program even if you have not programmed 80 buttons.
- In steps 2 and 3, the indicator turns off while a valid button is pressed.
- In step 3, if several buttons that can be used for learning are pressed, only the last pressed button is valid.
- In step 5, if a button that can be used for learning is pressed, the new button is selected and the learning procedure returns to the beginning of step 5.
- You can use TV/VIDEO only for the MONITOR function.

- **To activate the function after programming.**
  Press the programmed button to activate the function you want.

- **To cancel learning**
  Press USE MODE during any step. The remote automatically exits the learning mode.

- **To clear the learned codes**
  Start over from step 1. After step 3, press SLEEP for more than 2 seconds. The indicator lights twice slowly and the learned code is cleared. If SLEEP is pressed less than 2 seconds, the learning procedure returns to the beginning of step 5.
  When a learned code is cleared, if the button was previously programmed for another function, the programmed code for that button can be used.

- **To clear the memory of the remote**
  To clear all programmed and learned signals, do the following to reset the remote to factory settings.

  At the same time, press I/○, AV I/○, and MASTER VOLUME.
  The indicator flashes 3 times, then goes off.

- **To use a command that has been learned**
  When selecting a learned function, press the learned button for that function.
Performing several commands in sequence automatically (Macro Play)

The Macro Play function lets you link several IR codes in a sequential order as a single command. The remote provides 2 macro lists (MACRO1 and 2). You can specify up to 10 IR codes for each macro list.

Setting the sequence of IR codes

1. Press MACRO1 (or MACRO2) while pressing down USE MODE.
   The indicator lights.

2. Press the numeric buttons to select the macro step number.
   For example, to program step 1, press 1.

3. Press the button you want to program.
   To program the operation (IR code) of a component connected to the receiver, press the function button (including MONITOR) first, then press the button for the operation.
   For example, to play the CD player, press CD, then press ►.
   When programmed successfully, the indicator lights twice slowly, then the remote automatically exits the macro setting mode.

4. Repeat steps 1 through 3 to program up to 10 IR codes.

Tips
- To program a function switch, press the same function button twice in step 3.
- If programming is unsuccessful, check the following:
  - If the indicator does not light up in step 1, the batteries are weak. Replace both batteries.
  - If the indicator lights 4 times in quick succession in step 3, an error has occurred. Start again from step 1.

Note
The indicator turns off while a valid button is pressed.

To cancel programming
Press USE MODE during any step. The remote automatically exits the macro setting mode.

To delay the output of an IR code
Start over from step 1. In step 3, press VIDEO 1, then MACRO1 or MACRO2. This allows you to specify 1 second delay before output the next IR code. Be sure not to press MACRO1 or MACRO2 for more than 2 seconds.

To clear the programmed IR codes
Clear each macro step individually.

1. Press MACRO1 or MACRO2 (in which the IR code you want to clear is programmed) while pressing down USE MODE.

2. Press the numeric button to select the macro step number you want to clear.


4. Hold down MACRO1 or MACRO2 for more than 2 seconds.
   The IR code is cleared. The indicator lights twice slowly, then the remote automatically exits the macro setting mode.

To start macro play
Press MACRO1 (or MACRO2).

Note
If the Macro Play function does not work properly, program a delay between each operation. See “To delay the output of an IR code”.

Remote Button Description

To cancel programming
Press USE MODE during any step. The remote automatically exits the macro setting mode.

To delay the output of an IR code
Start over from step 1. In step 3, press VIDEO 1, then MACRO1 or MACRO2. This allows you to specify 1 second delay before output the next IR code. Be sure not to press MACRO1 or MACRO2 for more than 2 seconds.

To clear the programmed IR codes
Clear each macro step individually.

1. Press MACRO1 or MACRO2 (in which the IR code you want to clear is programmed) while pressing down USE MODE.

2. Press the numeric button to select the macro step number you want to clear.


4. Hold down MACRO1 or MACRO2 for more than 2 seconds.
   The IR code is cleared. The indicator lights twice slowly, then the remote automatically exits the macro setting mode.

To start macro play
Press MACRO1 (or MACRO2).

Note
If the Macro Play function does not work properly, program a delay between each operation. See “To delay the output of an IR code”.

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