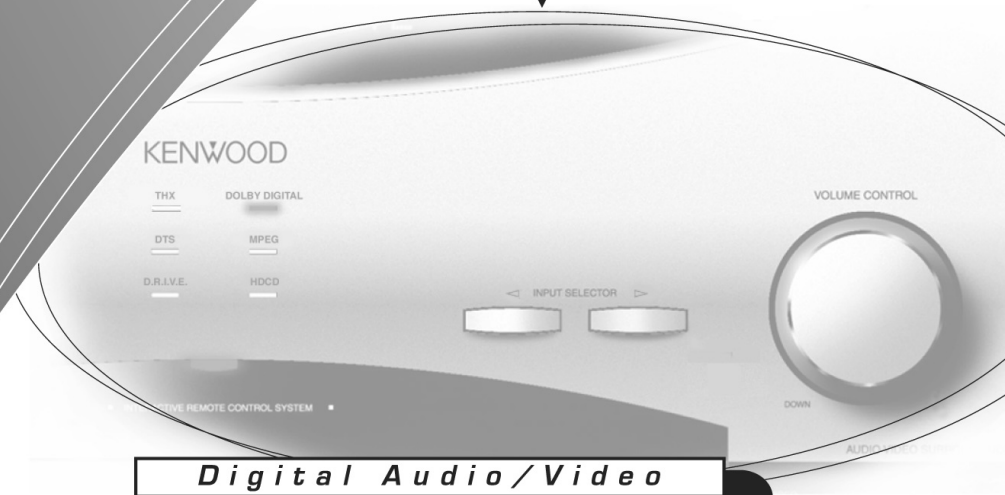
how to

operate and enjoy your

KRF-X7775D



Digital Audio/Video

Receiver

KENWOOD

Users' Guide

B60-4874-00 00 (CH) (T, M, X,Y) (OC) @0011

Using Your New Kenwood Audio-Video Receiver

Welcome to the Users' Guide for your new Kenwood Audio-Video Receiver. It connects all your current audio and video components. It allows you to control them all with Kenwood's remarkable LCD remote.

Table of Contents

Chapter One: Moving Around

Welcome to the Kenwood KRF-X7775D Users' Guide. This chapter explains the buttons and functions you can find on the front of the receiver and on Remote Control unit. The chapter also includes an explanation of how to navigate the convenient display on your new Remote Control unit.

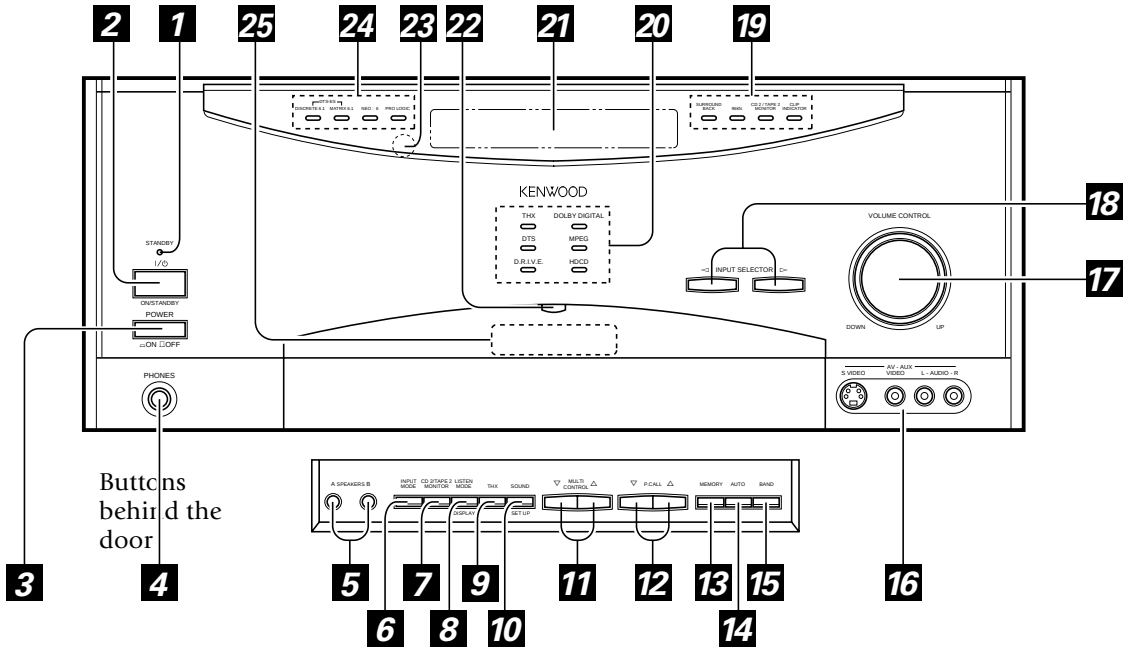
It includes the following sections:

What's on the Front Panel of Your Kenwood Audio-Video Receiver?

1. STANDBY indicator
2. POWER ON/STANDBY button
3. POWER ON/OFF switch
4. PHONES jack
5. SPEAKERS A/B buttons
6. INPUT MODE button
7. CD 2/TAPE 2 MONITOR button
8. LISTEN MODE button /DISPLAY button
9. THX button
10. SOUND button / SET UP button
11. MULTI CONTROL (Up/Down) buttons
12. P. CALL (Up/Down) buttons
13. MEMORY button
14. AUTO button
15. BAND button
16. AV AUX input jacks

Standby mode
While the standby indicator of the unit is lit, a small amount of current is flowing into the unit's internal circuitry to back up the memory. This condition is referred to as the standby mode of the unit. While the unit is in the standby mode, it can be turned ON from the Remote Control unit.

What's on the Front Panel of Your Kenwood Audio-Video Receiver?, continued



17.VOLUME CONTROL knob
18.INPUT SELECTOR buttons
19.Indicators
- SURROUND BACK
- 96kfs
- CD2/TAPE2 MONITOR
- CLIP INDICATOR

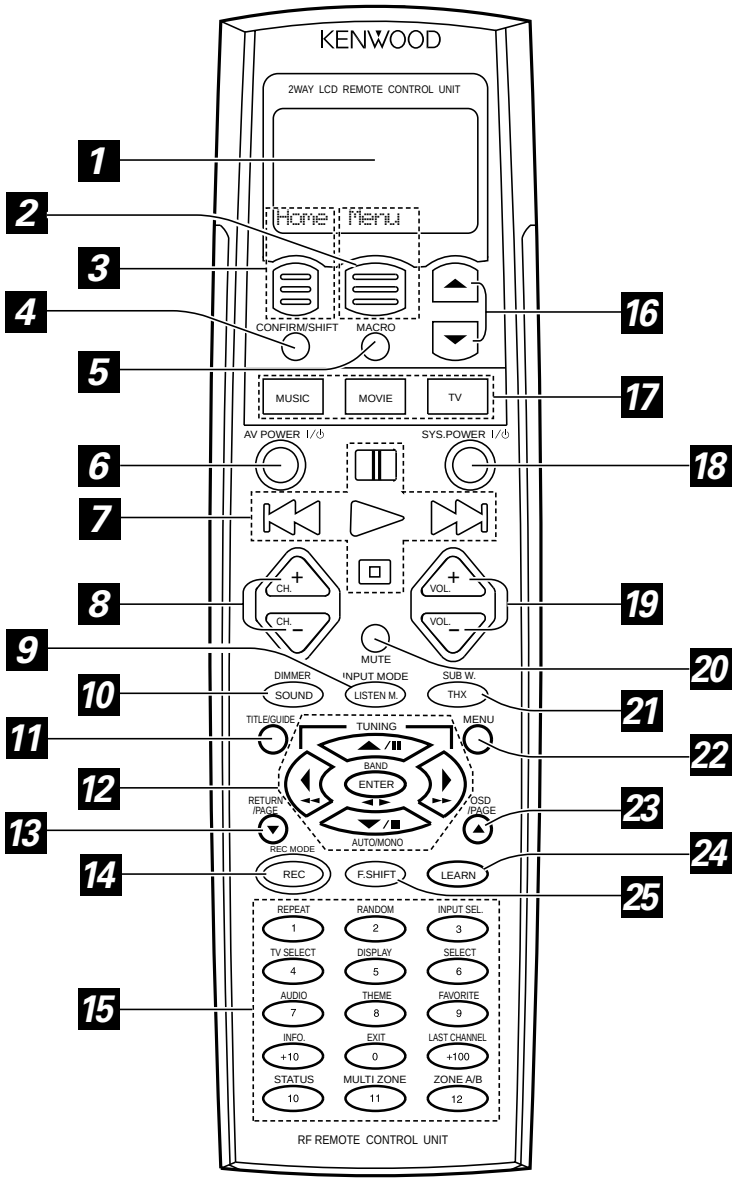
20.Indicators
- THX
- DTS
- D. R. I. V. E.
- DOLBY DIGITAL
- MPEG
- HDCD

21.Display
22.2-way communication indicator
23.Infrared remote sensor
24.Indicators
- DTS-ES DISCRETE 6.1
- DTS-ES MATRIX 6.1
- NEO : 6
- PRO LOGIC

25.Infrared remote transmitter

Button 5 to 15 are located inside the panel door.

What's on Remote Control Unit?



Télécommande à infrarouge
Modèle : RC-R0915 (for U.K.)
Modèle : RC-R0914 (for other countries)

1. LCD indicators
2. LCD function button 2
3. LCD function button 1
4. CONFIRM/SHIFT button
5. MACRO button
6. AV POWER I/⏻ button (AV device Power button)
7. AV device control buttons

   ► : Play

   I◄◄ , ►►I : Skip

   ❚❚ : Pause

   ■ : Stop
8. CH.(+/-) buttons (AV device control buttons)
9. LISTEN M. button / INPUT MODE button
10. SOUND button / DIMMER button
11. TITLE/GUIDE button (AV device control button)
12. ▲Cursor up button / ❚❚PAUSE button

    ▼Cursor down button / AUTO/MONO, ■ STOP button

    ◄ left, ► right button / TUNING buttons

    ENTER button / BAND (Play) button
13. RETURN/PAGE ▼button (AV device control button)
14. REC (Recording) button / REC MODE button

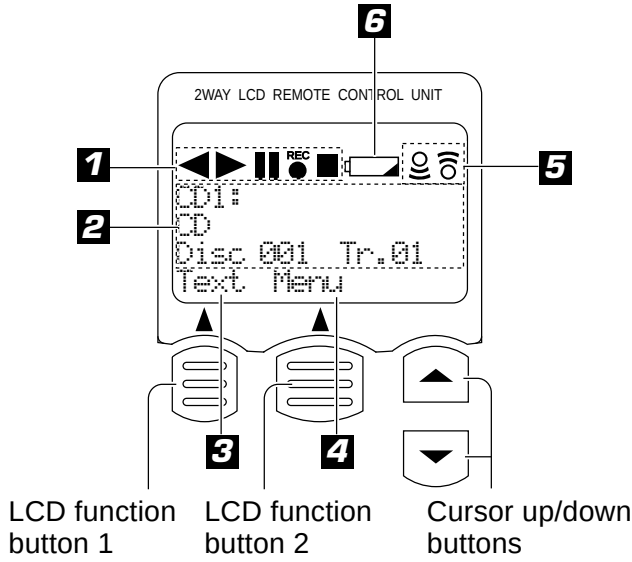
15. Numeric buttons (AV device control buttons)
    10 button / STATUS button
    11 button / MULTI ZONE button
    12 button / ZONE A/B button
16. LCD cursor up/down buttons
17. Input selector buttons
    MUSIC: Audio device selector button
    MOVIE: Video device selector button
    TV: TV/video monitor selector button
18. SYS. POWER I/⏻ (Receiver power) button
19. VOL. (+/-) buttons
20. MUTE button
21. THX button /SUB W. button
22. MENU button (AV device control buttons)
23. OSD/PAGE ▲ button (AV device control button)
24. LEARN button
25. F.SHIFT button

How to operate the F.SHIFT button:

In addition to the functions marked on the remote control buttons, those marked in blue characters above the buttons can be used. To use these functions, press the F.SHIFT button then press the desired button within 8 seconds.

(Example) To use the REPEAT function, press the F.SHIFT button then press button 1 (REPEAT).

LCD Indicators



1. Playback/recording mode indicators

   ◀▶ Play indicator/ ❚❚: Pause indicator/ REC ●: Record indicator/

   ■: Stop indicator
2. Character display

   Shows various information such as the input device name and track number.
3. Current function of LCD function button 1
4. Current function of LCD function button 2
5. Communication indicators

   : Sending. : Receiving.
6. Battery indicator

   " " appears when the batteries are nearly exhausted. In this case, replace all of the four batteries together.

To switch the menu:

The menu can be switched over or selected while LCD function button 1 and/or 2 are displayed.

(Examples: Home, Back, Menu, Enter, etc.)

How Do I Use Remote Control Unit?

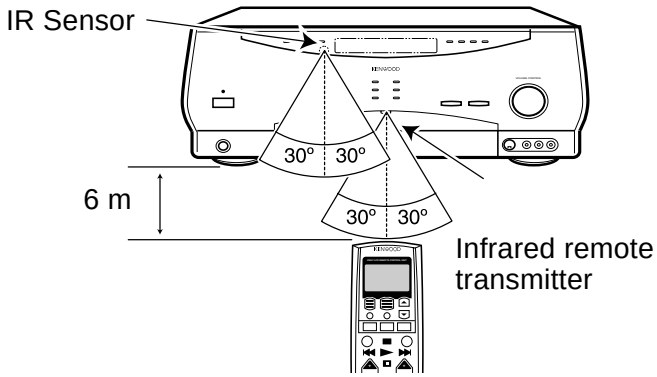
To select an item:

The displayed items can be scrolled or switched using the LCD cursor ▲ or ▼ button.

The selected item is displayed in the reversed color for distinction from other items.

Remote controllable range

Remote control unit can be controlled in the range as shown below using four AA (R6) batteries.



Take care of the following points when using Remote Control unit.

- Do not install the receiver in a place where the receiver's remote sensor is exposed to direct sunlight or high-frequency lighting (inverter type, etc.) fluorescent lamp. Otherwise the remote control range will be reduced.
- When the remote control range reduces or the Low Battery indicator (▭) will flash in the LCD display, replace all of the four batteries together.

For operation of other identified devices or with an external IR receiver, aim the Remote Control unit towards the respective unit and use it as an infrared remote control.

Do not block the remote control IR transmitter on the Receiver or the transceiver part of the Remote Control unit. A momentary error is possible when the signal is interrupted even momentarily during transmission and reception (for example by a person passing through the beam).

In such a case, the most recent information will be displayed when **CONFIRM/SHIFT** button on the Remote Control unit is pressed. Sometime it may be necessary to reenter the interrupted command again.

Chapter Two: Controlling the Receiver

Remote Control unit provided with the receiver is a bi-directional Remote Control unit, which enables remote control while checking the information shown on the LCD display. The operations of connected devices can also be controlled from Remote Control unit.

Before first time using the receiver or after having changed or added the connected devices, please be sure to read the separate booklet entitled *"Connection and Setup Guide"*.

The present manual describes the operation procedures in normal use.

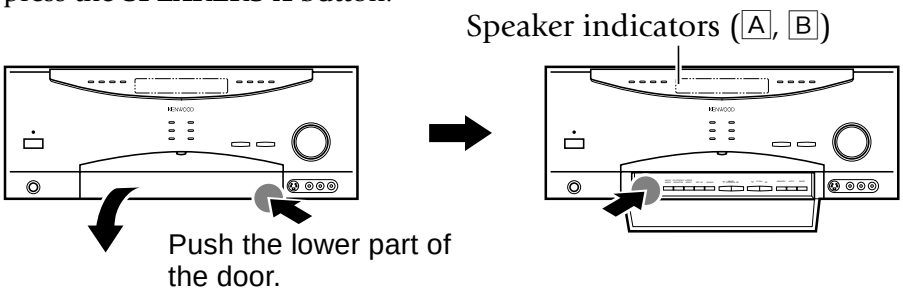
This chapter is composed of the following sections.

How Do I Adjust the Sound?

You can control and adjust a variety of sound settings using the receiver's front panel or Remote Control unit.

Turning the Speakers On

To turn on the front A speakers, open the receiver's front panel door and press the **SPEAKERS A** button.



To turn on the front B speakers, press the **SPEAKERS B** button located in the door of the receiver's front panel.

The lighting of a A or B indicator lamp indicates that the corresponding set of speakers is on.

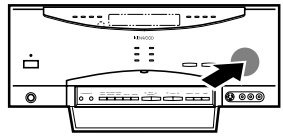
If you select **SPEAKERS B** while listening to a surround mode, the sound will automatically revert to stereo. While **SPEAKERS B** is on, the surround made cannot be selected.

If you use speakers connected to amplifiers via the **PRE OUT** jacks, choose **SPEAKERS A**.

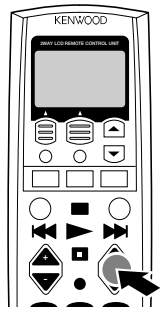
Adjusting the Volume

Use one of the following methods to adjust the volume.

• Turn the **VOLUME** knob on the front panel of the receiver.



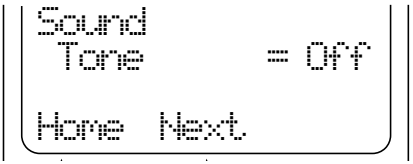
• Press  or  on Remote Control unit.



Adjusting the Tone (Only in STEREO mode with THX mode Off)
The Tone control adjusts the bass and treble tone of your front speakers manually. In addition to setting Bass and Treble tone adjustment values, you can completely bypass the tone control circuitry for a purer sound.

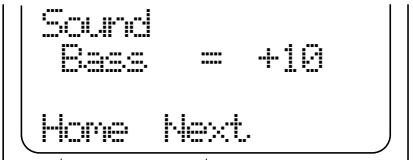
1. Press the **SOUND** button on Remote Control unit repeatedly until **Tone = Off** or **On** is displayed.

   On or **Off** refers to the current setting status.



2. Press the LCD cursor up/down (▲/▼) button on Remote Control unit to select **Tone = On** (or **Off** if desired so).
3. When **On** is selected above and the **SOUND** button or **Next** button is pressed again, the **Bass** setting menu appears.

   When **Off** is selected above, the **Loudness** setting menu appears.



4. Press the LCD cursor up/down (▲/▼) button on Remote Control unit to select the desired tone level.

   Adjust in the range from +10 to -10.
5. Press the **Next** button (LCD function button 2).
6. The **Treble** setting menu appears.
7. Press the LCD cursor up/down (▲/▼) button on Remote Control unit to select the desired tone level.

   Adjust in the range from +10 to -10.
8. To exit from setting, press the **Home** button (LCD function button 1).

Operation on the receiver:

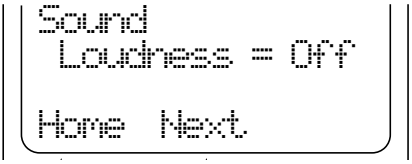
1. Press the **SOUND** button in the door repeatedly until **TONE OFF** or **ON** is displayed.
2. Press the **MULTI CONTROL** (△/▽) button to display **TONE ON** (or **OFF** if desired so).
3. When **ON** is selected above and the **SOUND** button is pressed again, the **BASS** setting menu appears.

   When **OFF** is selected above, the **LOUDNESS** setting menu appears.
4. Adjust using the **MULTI CONTROL** (△/▽) button.
5. Press the **SOUND** button.
6. When the **TREBLE** setting menu appears, adjust the treble in the same way as above. To exit from setting, press the **SOUND** button repeatedly until "**SOUND FIXED**" is displayed.

Adjusting the Loudness (Only in STEREO mode with THX mode Off)
The Loudness control increases the bass and treble at low volume control settings. This adjusts to the way the human ear hears sound at quiet volumes, retaining music's fullness and sparkle.

1. Press the **SOUND** button on Remote Control unit repeatedly until **Loudness = Off** or **On** is displayed.

   On or **Off** refers to the current setting status.



2. Press the LCD cursor up/down (▲/▼) button on Remote Control unit to select **Loudness = On** (or **Off** if desired so), then press the **Home** button (LCD function button 1).

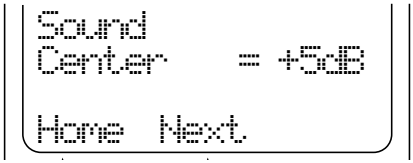
Operation on the receiver:

1. Press the **SOUND** button inside the door repeatedly until **LOUDNESS OFF** or **ON** is displayed.
2. Press the **MULTI CONTROL** (△/▽) button to select **LOUDNESS ON** (or **OFF**), then press the **SOUND** button repeatedly until "**SOUND FIXED**" is displayed.

Adjusting Speaker Levels

You can use the Sound menu to temporarily adjust the speaker levels of your center speaker, surround speakers, surround back speakers and subwoofer. For example, if a particular movie has dialog that's hard to understand, you can temporarily increase the center channel volume just for that movie. For more information on adjusting speaker levels permanently, see "Chapter Two: Setting Up Remote Control Unit" in the *Connections and Setup Guide*.

1. Press the **SOUND** button on Remote Control unit repeatedly until the speaker name to be adjusted is displayed.



Center : center speaker

Sur. Right : / **Sur. Left :** left and right surround speakers

Sur. Back R : / **Sur. Back L :** left and right surround back speakers

Sub Woofer : subwoofer

The two surround speakers cannot be adjusted independently between each other.

The two surround back speakers cannot be adjusted independently between each other.

2. Press the LCD cursor up/down (▲/▼) button on Remote Control unit to select the desired volume level, then press the **Home** button.

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Operation on the receiver:

1. Press the **SOUND** button inside the door repeatedly until the name of the speaker(s) to be adjusted is displayed.

   C : center speaker

   SL/SR : left and right surround speakers

   SBL/SBR : left and right surround back speakers

   SW : subwoofer

2. Press the **MULTI CONTROL** (△/▽) button to select the desired volume level, then press the **SOUND** button repeatedly until "**SOUND FIXED**" is displayed.

If you select another source device or turn off the receiver, the above setting is reset to the level adjusted in Chapter Two of the *Connection and Setup Guide*.

Adjusting the Input Level

If the front panel **CLIP** indicator will flash red continually, lower the analog input level for the source device you're listening to. (Setting the proper input level eliminates distortion that occurs if a source device's output level is too high. Occasional brief flashing of the CLIP indicator is okay).

1. Select the input to be adjusted (see "Selecting the Inputs" on page 35).
2. Press the **SOUND** button on the Remote Control unit until **Analog Level** is displayed.

3. Press the LCD cursor up/down (▲/▼) button on Remote Control unit to select the desired input level, then press the **Home** button.

   Select one of the three input levels; 0 dB, -3 dB and -6 dB. (The dB is the unit expressing the amplitude of sound.)

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Operation on the receiver:

1. Press the **SOUND** button inside the door repeatedly until **ANLG INPUT** is displayed.
2. Press the **MULTI CONTROL** (△/▽) button to select the desired input level, then press the **SOUND** button repeatedly until "**SOUND FIXED**" is displayed.

Muting Sound

The sound can be muted temporarily.

- Press the **MUTE** button on Remote Control unit. The **MUTE** indicator on the receiver panel blinks during muting.

Use one of the following methods to cancel muting.

- Adjust the Volume control on either the receiver or Remote Control unit.
- Press the **MUTE** button again.

The **MUTE** indicator on the receiver panel goes off.

Midnight Theater Function (Dolby Digital, DTS and DTS-ES only)

Any time you don't want to experience the loud and soft volume extremes of recorded sound (for example, late at night), use midnight theatre function to reduce volume extremes. This feature keeps loud, dramatic sound from being too loud (perhaps disturbing family members or neighbors) while ensuring that you can still hear whispered dialog or other soft sounds.

Midnight theater function only works if you are listening to a Dolby Digital program or DTS (DTS-ES) that has been encoded with special compression data.

To use the Midnight Theater function:

1. Press the **SOUND** button on the Remote Control unit repeatedly until **Midnight 1**, **2** or **Off** is displayed.

2. Press the LCD cursor up/down (▲/▼) button on Remote Control unit to select **Off**, **1** or **2**, then press the **Home** button.
   - OFF for normal balancing
   - 1 for quieter balancing
   - 2 for quietest balancing (the least difference between the loudest and quietest sound)

– –

Operation on the receiver:

1. Press the **SOUND** button inside the door repeatedly until **MIDNIGHT 1**, **2** or **OFF** is displayed.
2. Press the **MULTI CONTROL** (△/▽) button to select **OFF**, **1** or **2**, then press the **SOUND** button repeatedly until "**SOUND FIXED**" is displayed.

How Do I Adjust the Surround Modes?

You can experience true home-theater sound with your Kenwood Audio-Video Receiver. This receiver incorporates several listen modes to let you enjoy surround sound with a wide variety of program sources. Each produces multiple channels of surround-sound, but each does it differently.

What is the THX?

- **THX:** Movie soundtracks are mixed in special movie theaters called dubbing stages and are designed to be played back in movie theaters with similar equipment and conditions. The soundtrack created for movie theaters is then transferred directly onto Laserdisc, VHS tape, DVD, etc., and is not changed for playback in a small home theater environment.

  THX engineers developed patented technologies to accurately translate the sound from the movie theater environment into the home, correcting the tonal and spatial errors that occur. On the KRF-X7775D, when the THX mode is on, the THX technologies are automatically added after the decoded signal.

  Movies which have been encoded in Dolby Digital, DTS, MPEG, Dolby Pro Logic, Stereo and Mono can all benefit from activating the THX technologies. THX should be activated only when watching movies which were mixed for playback in large movie theater environments. THX need not be activated for music, movies that were made especially for television or shows such as sports programming, talk shows, etc. This is because they were mixed in a small room environment.

- **THX Surround EX:** THX Surround EX - Dolby Digital Surround EX is a joint development of Dolby Laboratories and the THX division of Lucasfilm Ltd.

  In a movie theater, film soundtracks that have been encoded with Dolby Digital Surround EX technology are able to reproduce an extra channel which has been added during the mixing of the program. This channel, called Surround Back, places sounds behind the listener in addition to the currently available front left, front center, front right, surround right, surround left and subwoofer channels. This additional channel provides the opportunity for more detailed imaging behind the listener and brings more depth, spacious ambience and sound localization than ever before.

Movies that were created using the Dolby Digital Surround EX technology, when released into the home consumer market may exhibit a Dolby Digital Surround EX logo on the packaging. A list of movies created using this technology can be found on the Dolby web site at http://www.dolby.com.

Only receiver and controller products bearing the THX Surround EX logo, when in the THX Surround EX mode, faithfully reproduce this new technology in the home.

This product may also engage the "THX Surround EX" mode during the playback of 5.1 channel material that is not Dolby Digital Surround EX encoded. In such case the information delivered to the Surround Back channel will be program dependent and may or may not be very pleasing depending on the particular soundtrack and the tastes of the individual listener.

What are Listen Modes?

- **Dolby Digital:** Dolby Digital uses an encode/decode process based on its theatrical digital surround sound technology. The five main channels are full-frequency and independent, so sound can completely envelop you or soar anywhere in the room, just like at the movies.

  Compared with Dolby Pro Logic, Dolby Digital has more clarity, greater surround envelopment, and more realistic sound movement between channels.

  Although a full set of speakers (front left and right, center, surround left and right, and a subwoofer) is required for true Dolby Digital surround sound, this receiver lets you enjoy Dolby Digital program sources, even if you connect fewer speakers.

- **Dolby Pro Logic/Dolby Pro Logic II:** Dolby Pro Logic reproduces a surround sound like in a movie theater from Dolby Surround-encoded program source (videotape or LaserDisc software carrying the Dolby Surround logo), and features excellent sound movement on the front and a surrounding atmosphere of movie theaters. Meanwhile, Dolby Pro Logic II decodes a signal encoded in 2 channels into 5-channel signals composed of the left/right front signals, center signal and surround left/right signals. If no surround speaker is Setup, the surround signal is sent to front left and right speakers. (Dolby 3 stereo)

  Dolby Pro Logic II is an advanced version of the decoding technology used with Dolby Pro Logic. It inputs 2-channel signals from a Dolby

Surround-encoded source and reproduces 5-channel signals in which the surround channel is divided into independent channels for the left and right. Dolby Pro Logic II has the MOVIE mode and MUSIC mode, and the MUSIC mode enables independent adjustment of three parameters including Panorama mode, Dimension and Center Width. See page 29 for the Dolby Pro Logic II parameters.

To allow the users enjoy multichannel playback also from the analog audio of currently available Dolby Surround home video software, the KRF-X7775D incorporates a Dolby Pro Logic II surround decoder.

Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", "Surround EX " and the double-D symbol are trademarks of Dolby Laboratories.

- **DTS :** DTS has five full-frequency channels that create effects nearly identical to those in a theater. Sounds seem to zoom from one place to another or entirely surround you. Like Dolby Digital, DTS has much-improved clarity, surround and sound movement capability compared with Dolby Pro Logic. This listen mode is available on CD, LD, and DVD media. DTS is a strictly digital format that can be supplied only by a CD, LD, or DVD player that supports DTS sound. If you attempt to listen to DTS encoded media through the analog connections to your new receiver, you will experience digital noise (loud static).

- **DTS-ES Discrete 6.1, DTS-ES Matrix 6.1:** Both DTS-ES Discrete 6.1 and DTS-ES Matrix 6.1 add the surround back channel audio to the DTS 5.1-channel format to improve the acoustic positioning and makes acoustic image movement more natural with the 6.1-channel reproduction. This receiver incorporates a DTS-ES decoder, which can handle DTS-ES Discrete-encoded and DTS-ES Matrix-encoded program sources from DVD, etc.

  DTS-ES Discrete 6.1 features digital discrete recording of all channels including the surround back channels and higher quality of audio reproduction.

  DTS-ES Matrix 6.1 features matrix encoding of surround back (SB) signals in the SL/SR signals and decoding of the matrix into the SL, SR and SB signals during playback.

- **DTS NEO:6:** This is a new technology which decodes 2-channel sig-

nals into 6-channel signals using high-accuracy digital matrix technology. The DTS NEO:6 decoder has near-discrete properties in the frequency characteristics of the channels as well as in channel separation. According to the signals to be played back, DTS NEO:6 uses either the NEO:CINEMA mode optimized for movie playback or the NEO:MUSIC mode optimized for music playback.

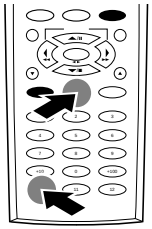
- **MPEG:** MPEG, which stands for "Moving Pictures Experts Group", is an international standard of digital video and audio compression and decompression in media. It is the most efficient encoding method for compressed multi-channel audio which provides the highest sound quality to deliver the best movie theater sound into the home.
- **DSP (Digital Signal Processing):** DSP allows you to create your own custom surround sound environments and use them with any source (except Dolby Digital, MPEG, DTS and DTS-ES). You can select the ambience of an Arena, Jazz Club, Stadium, Cathedral, Theater or Concert hall, and then modify the parameters to 'fine-tune' the environment to your taste. (See "Applying Digital Signal Processor (DSP) Effects" on page 31 for details about making DSP adjustments.)
- **Multi ch Music (Multichannel music):** All speakers are used to realize a stereo sound with a wide listening range.
- **Stereo:** Stereo listen mode provides standard stereo sound to the front left and right speakers.

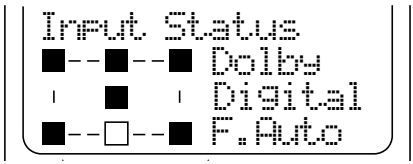
- You cannot select the Input Analog mode if you are playing DTS-encoded media.
- You cannot listen to DTS-encoded media in Zone B.
- When playing DTS-encoded media, wait until "DTS" appears on the receiver display before proceeding.
- The listen mode is fixed to Stereo during playback of 96k fs signals.

Checking the Input signal during playback

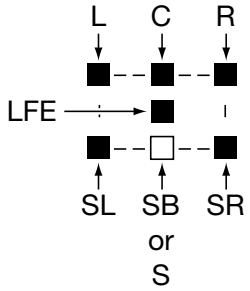
During playback of Dolby Digital, MPEG or DTS signal, the surround identification signal in the input is identified and displayed by means of the L, C, R, SR, SB (or S), SL and LFE icons.

1. Press the **F.SHIFT → 10** (**STATUS**)* button on Remote Control unit.





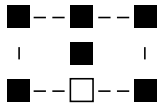
After 8 seconds, the display goes off.



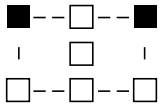
L : left channel
C : center channel
R : right channel
SL : left surround channel
SR : right surround channel
SB : left and right surround back channel
S : surround channel
LFE : low frequency effect channel
■ : identified signal

Example:

5.1 ch encoded Dolby Digital



2 ch Dolby Digital



* When an operation is described as [**F.SHIFT → 10 (STATUS)** button], for example, press the **F.SHIFT** button and press the next button (the **10 (STATUS)** button in this case) within 8 seconds.

Input Modes (only for input with digital jacks)

The input mode should usually be set to Full Auto. However, the input mode can also be set manually when you want to fix the inputs as analog signals, etc.

Full Auto : The receiver detects the input signal format and selects the Listen mode automatically according to the speaker setup.

Digital Manual : The inputs are fixed at digital signals and the listen modes should be switched manually by the user.

The **Digital Manual** mode is switched automatically to the **Full Auto** mode when an input is switched or the receiver is set to Off.

Analog : The inputs are fixed at the analog 2-channel inputs.

6ch Input : The inputs are fixed at the analog 6-channel inputs. This mode can be selected only when the DVD input is selected with the input selector.

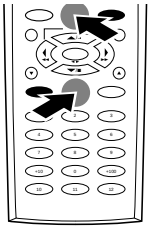
- You cannot select the Input Analog mode if you are playing DTS-encoded media.
- When you use **Full Auto** mode with certain DVD and LD players, performing operations such as "Skip" or "Stop" may momentarily interrupt the output. This could switch the "Listen Mode" automatically to the surround mode intended for the input signal if you have manually selected a different listen mode.
- Different input modes can be selected for the different input devices. The selected input modes for the separate input devices are stored in the memory.
- When playing a DVD Audio disc with a DVD Audio-compatible DVD player:
  1. to reproduce stereo audio, set the input mode of the receiver to **6ch Input**.
  2. to reproduce multi-channel audio, set the input mode of the receiver to **6ch Input**.

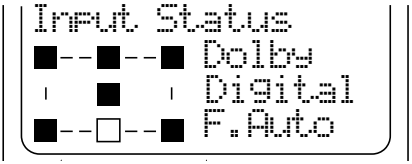
Switching Input Modes

To fully enjoy the sonic benefits of specially-encoded DVD AUDIO discs played on a compatible DVD player, you must set the receiver's input to **6Ch Input**.

When you are finished listening to analog media, set the receiver's input back to **Full Auto**.

1. Press the **F.SHIFT → LISTEN M.** (**INPUT MODE**)* button on Remote Control unit.





2. Repeat step 1 until the desired input mode is displayed.

– –

Operation on the receiver:

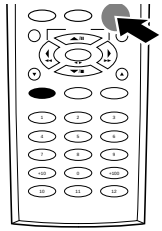
1. Press the **INPUT MODE** button inside the door repeatedly until **FULL AUTO, DIGITAL MANUAL, ANALOG** or **6CH INPUT** is displayed.

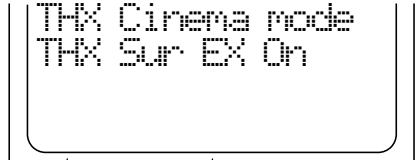
- If you turn off the receiver, select a different source device, the "Digital manual" is reset to "Full Auto".
- When you use "Full Auto" mode with certain DVD and LD players, performing operations such as "Skip" or "Stop" may momentarily interrupt the output.

* When an operation is described as [**F.SHIFT → LISTEN M.** (**INPUT MODE**) button], for example, press the **F.SHIFT** button and press the next button (the **LISTEN M.** (**INPUT MODE**) button in this case) within 8 seconds.

To set the THX Mode

Press the **THX** button on Remote Control unit.





Each press switches the modes as follows.

When the surround back speakers are set to **Lrg** or **Nml**/**THX**:

① THX Sur EX On
② THX Sur EX Auto
③ THX On
④ THX Off

When the surround back speakers are set to **Off**:

① THX On
② THX Off

– –

Operation on the receiver:

Press the **THX** button inside the door repeatedly until the desired THX mode is displayed.

Each press switches the modes as follows.

When the surround back speakers are set to **Lrg** or **Nml**/**THX**:

① THX Sur EX ON
② THX Sur EX AUTO
③ THX ON
④ THX OFF

When the surround back speakers are set to **Off**:

① THX ON
② THX OFF

After 3 seconds, the display of the set THX mode returns to the previous display.

- **THX Sur EX On**

  The input signal is decoded automatically into 6.1-channel signals if the input signal is Dolby Digital or DTS and contains two channel surround signals.

  The THX operation is activated.

- **THX Sur EX Auto**

  The input signal is decoded into 6.1-channel signals only when the input contains the Dolby Digital Surround EX encoded identification signal.

  The THX operation is activated

- **THX On**

  The THX operation is activated. (6.1channel decoding will not be applied.)

- **THX Off**

  The THX Surround EX and THX operations are deactivated.

- To play Dolby Digital Surround EX-encoded software in 6.1 channels, it is required to set the THX Surround EX mode to **On** or **Auto**.

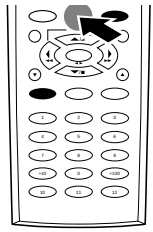
  Note that some of Dolby Digital Surround EX-encoded software does not contain the identification signal. In this case, set the THX Surround EX mode to **On**.

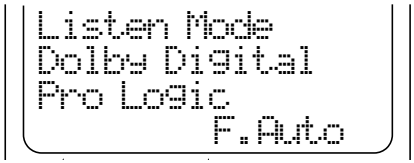
- Set the THX mode to **Off** when DTS-ES decoding is required.
- The THX operation is not activated with the 96k fs PCM signal.
- When Dolby Pro Logic II: Music is selected while **THX Sur EX On**, **THX Sur EX Auto** or **THX On** is selected, the THX mode will be switched Off.
- As long as Dolby Pro Logic II: Music is selected, switching the THX mode does not produce any effect.
- Different THX modes can be selected for the different input devices. The selected THX modes for the separate input devices are stored in the memory.

To set the Listen Mode manually

The listen mode can be set manually except with certain input signals.

1. Press Remote Control unit's **LISTEN M**. button repeatedly until the desired listen mode is displayed.





Operation on the receiver:

Press the **LISTEN MODE** button inside the door repeatedly until the desired listen mode is displayed.

After 5 seconds, the display of the set listen mode returns to the previous display.

- The available listen modes may be restricted depending on the input signal and speaker setup.
- When the input mode is set to **Full Auto**, if the incoming signal is not **Dolby Digital**, **DTS**, **DTS-ES** or **MPEG**, the listen mode reverts to the last listen mode you selected for that input.
- When the speakers A are set to Off or speakers B are set to On, the listen mode is switched to Stereo.
- Different listen modes can be selected for the different input devices. The selected listen modes for the separate input devices are stored in the memory.

Examples of inputs with which switching is available

when the input signal is Dolby Digital

*Dolby Digital
**PL II : MOVIE
**PL II : MUSIC
****Pro Logic
Stereo

when the input signal is DTS (5.1)

DTS
Stereo

when the input signal is DTS-ES Matrix 6.1

***DTS-ES Mtrx 6.1
Stereo

when the input signal is DTS-ES Discrete 6.1

***DTS-ES Discrt 6.1
Stereo

when the input signal is MPEG Multi Channel

Mpeg
****Pro Logic
Stereo

* When the input signal contains the identification signal indicating Dolby Surround encoding, The listen mode is switched automatically to Pro Logic (Pro Logic II MOVIE).

** Pro Logic II (MUSIC/MOVIE) can be selected only when the input is 2-channel signals.

*** DTS-ES Matrix 6.1/DTS-ES Discrete 6.1 can be selected only when THX mode is OFF.

**** Pro Logic can be selected only when the input is 2-channel signals.

when the input signal is PCM or Analog

PL II : Movie
PL II : Music
Pro Logic
Neo : Cinema
Neo : Music
*Arena
*Jazz Club
*Cathedral
*Concert Hall
*Stadium 1
*Stadium 2
*Theater 1
*Theater 2
Multi Ch Music
Stereo

* DSP Modes can be selected only when THX mode is OFF.
When the input is a 96k fs PCM signal, it is only Stereo that can be selected.

- Some modes may be unable to be selected depending on the speaker setup.
- During playback of a Dolby Digital program, "OFFSET +x dB" (where x is a figure) may be displayed on the receiver's display. This is displayed when the source being played outputs a Dolby Digital signal with a higher or lower level than the standard level. For example, when "OFFSET +4dB" is displayed, the source contains an audio signal with a 4 dB higher level than the standard level. (dB is the unit of sound amplitude.)

Description of Dolby Pro Logic II: Music mode

Panorama mode: Expands the image of front-channel stereo to the surround speakers to create a sound environment that fills your surroundings.

Dimension : This controls the balance between the Front and Rear in 3 steps on the front and 3 steps on the rear. Set this parameter to one of the Front steps if the surround effect is too strong, or to one of the Back steps if it is too weak.

Center Width : The center channel signal can be divided and distributed to the Front L/R channels.

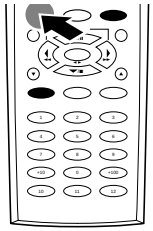
The adjustment for distributing the center channel signal to the front channels can be applied in eight steps from 0 to 7.

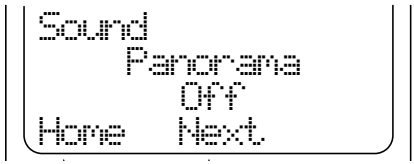
Use this adjustment when the center image seems to be too strong.

Selecting the parameter of Pro Logic II : Music mode

1 Press the **LISTEN M.** button on the Remote Control unit repeatedly until the PL II : Music mode to be set is displayed.

2. Press the **SOUND** button until "Panorama Off" (or "On") is displayed on Remote Control unit.





3. Press the LCD cursor up/down (▲/▼) button on Remote Control unit to select "Panorama On" (or "Off"), then press the **Next** button.
4. Press the **SOUND** button to "Dimension 0" (or "F-1" etc.) is displayed on Remote Control unit.
5. Press the LCD cursor up/down (▲/▼) button on Remote Control unit to select "Dimension F-1" (or "F-2", "F-3", "R-1" to "R-3"), then press the **Next** button.

6. Press the **SOUND** button to "Center Width 0" (or "1" to "7" etc.) is displayed on Remote Control unit.
7. Press the LCD cursor up/down (▲/▼) button on Remote Control unit to select "Center Width 1" (or "0", "2" to "7"), then press the **Home** button.

The Center Width is not displayed if the Center speaker is set to "Off" in the speaker setup (see "Setting Up Speakers" on page 36 of the *Connections and Setup Guide*).

— — — — — — — — — — — — — — — — — — —

Operation on the receiver:

1 Press the **LISTEN MODE** button inside the door repeatedly until the PL II : Music mode to be set is displayed.
2. Press the **SOUND** button repeatedly until to display "PANORAMA OFF" (or "ON").
3. Press the **MULTI CONTROL** (△/▽) button to select "PANORAMA ON" (or "OFF").
4. Press the **SOUND** button to display "DIMENSION 0" (or "F-1" etc.).
5. Press the **MULTI CONTROL** (△/▽) button to select "DIMENSION F-1" (or "F-2", "F-3", "R-1" to "R-3").
6. Press the **SOUND** button to display "CENTER WIDTH 0" (or "1" to "7" etc.).
7. Press the **MULTI CONTROL** (△/▽) button to select "CENTER WIDTH 1" (or "0", "2" to "7").
8. Press the **SOUND** button repeatedly until "**SOUND FIXED**" is displayed.

Applying Digital Signal Processor (DSP) Effects

The DSP mode creates the reverberation devices (elements of sound echoed in various spaces) which determine the feeling of presence. Since DSP uses digital processing, it can produce these effects without soiling the sound quality of the original music or video source.

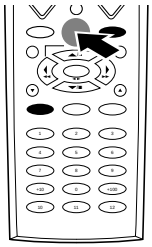
The DSP mode lets you add the atmosphere of an Arena, Jazz Club, Cathedral, Concert Hall, Stadium (1, 2) or Theater (1, 2) from any PCM or analog input source. These modes are particularly effective when used with stereo program sources like CD, television and FM radio. You might enjoy trying the CONCERT HALL, STADIUM or ARENA mode the next time you watch a sporting event or concert.

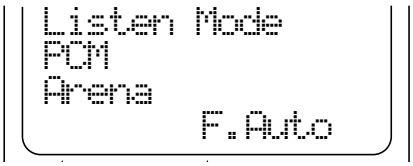
You can adjust the following elements to create a customized environment:

- The WALL TYPE parameter lets you adjust the brightness of the sonic environment according to your preference.
- The ROOM SIZE parameter lets you adjust the size of the sonic environment according to your preference.
- The EFFECT LEVEL lets you adjust the amount of DSP "presence" in the sonic environment according to your preference.

Setting a DSP effect

Press the Remote Control unit's **LISTEN M**. button or receiver's **LISTEN MODE** button repeatedly until the desired listen mode is displayed.





- The DSP mode can be set to Arena, Jazz Club, Cathedral, Concert Hall, Stadium (1, 2) or Theater (1, 2).
- The DSP mode can be selected only when the current input is PCM (except for 96kfs) or Analog.

To customize the DSP effect:

1. Press the **SOUND** button and press the **Next** button repeatedly until "DSP Wall Type" is displayed on Remote Control unit.
2. Press the LCD cursor up/down (▲/▼) button on Remote Control unit to select Soft, Medium or Hard.
3. Press Remote Control unit's **Next** button to display DSP Room Size.
4. Press the LCD cursor up/down (▲/▼) button on Remote Control unit to select Small, Medium or Large.
5. Press Remote Control unit's **Next** button.
6. Press the LCD cursor up/down (▲/▼) button on Remote Control unit to select one of Level 1 to Level 9, then press the **Home** button.

— — — — — — — — — — — — — — — — — — —

Operation on the receiver:

1. Press the **SOUND** button repeatedly until to display WALL type.
2. Press the **MULTI CONTROL** (△/▽) button to select **SOFT**, **MEDIUM** or **HARD**.
3. Press the **SOUND** button to display ROOM size.
4. Press the **MULTI CONTROL** (△/▽) button to select **SMALL**, **MEDIUM** or **LARGE**.
5. Press the **SOUND** button to display EFFECT LEVEL.
6. Press the **MULTI CONTROL** (△/▽) button to select one of LEVEL 1 to LEVEL 9, then press the **SOUND** button repeatedly until "**SOUND FIXED**" is displayed.

HDCD® and D.R.I.V.E. Effects

HDCD is a new format enabling recording with higher quality than previous CD while maintaining compatibility with it. Although a HDCD-compatible CD player is usually required to exhibit the full characteristics of the HDCD, this receiver is capable of reproducing high-quality HDCD signals by connecting a CD player through digital connection, even if it does not incorporate the HDCD circuitry.

D.R.I.V.E. is a KENWOOD original technology for reproducing signals with high resolution by instant switching of the internal filters according to the input signal. This receiver incorporate a high performance DSP to provide very high resolution from 32-bit DRIVE III circuitry, achieving stereo audio reproduction with the best quality ever reached.

The D.R.I.V.E. indicator lights when the D.R.I.V.E. circuit is activated.

The HDCD indicator lights when the HDCD circuit is activated and a HDCD is played.

HDCD and D.R.I.V.E. are designed to be activated automatically to select the optimum circuit path.

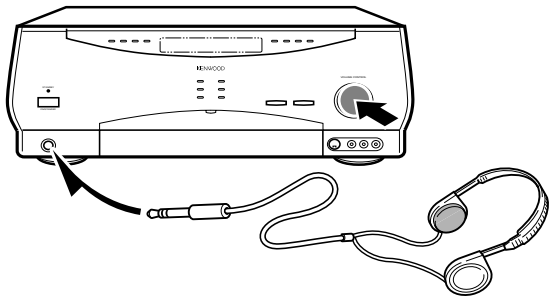
HDCD and D.R.I.V.E. is effective only at the time of digital input stereo, DSP mode or multi channel music.

Some HDCD-recorded discs do not contain all tracks as HDCD recordings. (The HDCD indicator will not light for tracks not recorded as HDCD.)

HDCD and D.R.I.V.E. is effective only at the time of THX Off mode.

Headphone Operation

Insert the headphone plug into the receiver's PHONES jack and adjust the listening level.



NOTES

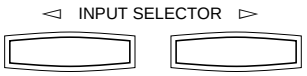
When listening through headphones, set **SPEAKERS A** and **B** to **OFF**.

Selecting the Inputs

To select an input on the receiver:

Press one of the **INPUT SELECTOR** (◁/▷) buttons. Each press changes the input in the following order.

① Tuner (frequency display)
② CD1
③ MD/TAPE1
④ CD-R
⑤ VIDEO1
⑥ VIDEO2
⑦ VIDEO3
⑧ DVD
⑨ AV AUX
⑩ PHONO



To return to the previously displayed input, press the other button.

Although VIDEO4 is displayed in the initial status, the receiver cannot be switched to select VIDEO4. The VIDEO4 display will not appear after Remote Control unit has been set up.

To select an input on Remote Control unit:
The TV-monitored device, video device and audio device can be selected using separate buttons.

Audio device

MUSIC

① CD1
② MD/TAPE1
③ Tuner
④ CD-R
⑤ PHONO

If any of the above inputs is not identified, the next device name will be displayed.

Video device

MOVIE

① VIDEO1
② VIDEO2
③ VIDEO3
(④ VIDEO4)
⑤ DVD
⑥ AV AUX

If any of the above inputs is not identified, the next device name will be displayed.

TV button

TV

① TV1
② TV2
③ CABLE

The TV button cannot select the input.
It can be used to remote control TV1, TV2 or CABLE if , devices are identified at these inputs.

How Do I Operate Devices?

Your Remote Control unit makes it easy for you to control the different devices connected to your receiver.

Once AV devices are connected and identified by Remote Control unit , it can use the same remote control functions as the remotes originally provided with the AV devices. (See "Chapter Two: Setting Up Remote Control Unit" of the *Connection and Setup Guide.*)

For the operations of each device, please also refer to the manuals provided with them.

Playback of the device connected to the CD2/TAPE2 MONITOR

These instructions are for operating a second CD player or tape deck from a single-Zone installation or from Zone A. For more information on operating devices in a multi-Zone setup, see "Chapter Two: Using Remote Control Unit in Multiple Zones" on page 54 of this manual.

1. Press the **CD2/TAPE2 MONITOR** button on the receiver's front panel.
   The **CD2/TAPE2 MONITOR** indicator lights up.
2. Play the CD player or cassette deck in the same way as usual. As this cannot be controlled from Remote Control unit, use the CD player or cassette deck controls.

After completion of playback, press the **CD2/TAPE2 MONITOR** button again so that the **CD2/TAPE2 MONITOR** indicator goes out.

For detailed operating procedures of your AV device, refer to its instruction manual.

Do not connect the system control cable from the second CD player or second cassette deck, even if it supports system control.

Operating a Television

To operate a standard TV:

1. Press the **TV** button.
2. Use Remote Control unit to perform same remote control operations as with the remote of the TV set.

For the buttons which are usually available, see "Chapter Three: Button Layout in Controlling Other Devices" on page 57.

For detailed operating procedures of your TV, refer to its instruction manual.

The available buttons are variable depending on the TV manufacturer and model. In case of difficulty in remote control, program the desired remote control functions under the desired remote control buttons using the LEARN function (see page 40 of the *Connection and Setup Guide*).

To operate the cable TV and satellite TV:

1. Select the input to which you assigned the cable TV or satellite TV tuner (see page 35).
2. Use Remote Control unit to perform same remote control operations as with the remote of the cable TV or satellite TV tuner.

For detailed operating procedures of your AV device, refer to its instruction manual.

Operating an AV Device

To play a VCR, DVD player or LD player:

1. Select the input you want (see page 35).
2. Use Remote Control unit to perform same remote control operations as with the remote of the selected AV device.

For the buttons which are usually available, see "Chapter Three: Button Layout in Controlling Other Devices" on page 57.

For detailed operating procedures of your AV device, refer to its instruction manual.

The available buttons are variable depending on the AV device manufacturer and model. In case of difficulty in remote control, program the desired remote control functions under the desired remote control buttons using the LEARN function (see page 40 of the *Connection and Setup Guide*).

The channels can be switched using the CH. (+/-) buttons as well as numeric buttons (1 to 12).

Operating a CD player

Kenwood 200-Disc CD Changer

Kenwood 200-Disc CD Changers have many different features that make them ideal complements to your Kenwood receiver. Some changer models can store disc and track titles for all loaded discs, and then download this information to your Remote Control unit.

To play Kenwood 200-Disc CD Changer:

1. Select the **CD** input (see page 35).
2. Use Remote Control unit to perform same remote control operations as with the remote of the CD changer.

You have to assign disc and track titles to the discs in your CD player before you can transfer them to Remote Control unit. See your CD player's instruction manual for more information about assigning disc and track titles.

To read the loaded disc titles and store them in Remote Control unit:

1. Select the CD input and display "Menu".
2. Press the Menu button (LCD function button 2).
3. Select "All Data Read" and press the Enter button (LCD function button 2).
4. Set Remote Control unit down so that its IR transmitter window is aiming at receiver's IR transmitter window. Select Disc Title or Track Title. ***Do not*** move Remote Control unit while it is reading data.

   This process may take some time, depending on how many CDs you have loaded. When the IR light on the receiver goes out, the receiver is done sending the information to Remote Control unit, and you may move Remote Control unit again.

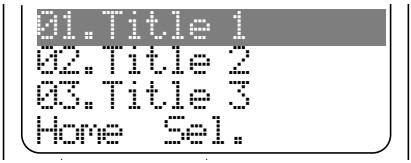
   Remote Control unit's memory now contains the disc titles of every CD in the changer with title information.

To play discs and tracks by title:

1. Select the **CD** input (see page 35).

2. Press the Text button (LCD function button 1) to display the disc title menu.

3. Press the LCD cursor up/down (▲/▼) button to select the desired disc, then press the Sel. button (LCD function button 2). The track title menu will appear.



4. Press the LCD cursor up/down (▲/▼) button to select the desired track, then press the Sel. button (LCD function button 2).

Playback will start from the selected track.

The track titles of the presently selected disc can be read by selecting "Track Title" in step 4 of "To read the loaded disc titles and store them in Remote Control unit" on page 39.

Single or Rotary CD Player

1. Select the **CD** input (see page 35).
2. Use Remote Control unit to perform same remote control operations as with the remote of the selected AV device.

The available buttons are variable depending on the AV device manufacturer and model. In case of difficulty in remote control, program the desired remote control functions under the desired remote control buttons using the LEARN function (see page 40 of the *Connection and Setup Guide*).

For the buttons which are usually available, see "Chapter Three: Button Layout in Controlling Other Devices" on page 57.

For detailed operating procedures of your AV device, refer to its instruction manual.

CD-R Recorder

1. Select the **CD-R** input (see page 35).
2. Use Remote Control unit to perform same remote control operations as with the remote of the selected AV device.

The available buttons are variable depending on the AV device manufacturer and model. In case of difficulty in remote control, program the desired remote control functions under the desired remote control buttons using the LEARN function (see page 40 of the *Connection and Setup Guide*).

For the buttons which are usually available, see "Chapter Three: Button Layout in Controlling Other Devices" on page 57.

For detailed operating procedures of your AV device, refer to its instruction manual.

Operating an MD Recorder or Cassette Deck

To play an MD or cassette:

1. Select the input you want (see page 35).
2. Use Remote Control unit to perform same remote control operations as with the remote of the selected AV device.

The available buttons are variable depending on the AV device manufacturer and model. In case of difficulty in remote control, program the desired remote control functions under the desired remote control buttons using the LEARN function (see page 40 of the *Connection and Setup Guide*).

For the buttons which are usually available, see "Chapter Three: Button Layout in Controlling Other Devices" on page 57.

For detailed operating procedures of your AV device, refer to its instruction manual.

Playing an Analog Turntable

To play an analog disk turntable:

1. Select the **PHONO** input (see page 35).
2. Play an analog disk on the turntable. As this cannot be controlled from Remote Control unit, use the turntable controls.

For detailed operating procedures of your AV device, refer to its instruction manual.

Monitoring a Video Camera or Playing an Additional VCR

1. Select the **AV AUX** input (see page 35).
2. Play the video camera or additional VCR in the same way as usual. As this cannot be controlled from Remote Control unit, use the video camera or additional VCR controls.

For detailed operating procedures of your AV device, refer to its instruction manual.

Radio Tuning

Auto: When a tuning button is pressed, the station with the closest frequency to the current frequency position will be tuned in automatically. In this case, the stereo mode is activated automatically when a stereo station is tuned in (FM band only).

Manual: When auto tuning is not available because the radio waves are weak, tune a radio station by selecting its frequency manually. The reception is in monaural during manual tuning. The monaural reception can make the sound easier to listen thanks to less noise than in stereo reception.

Preset tuning :

If you preset (store) radio stations in the receiver, you can tune into any of them by one-touch operations. Up to 40 stations can be preset.

RDS (Radio Data System) for U.K. Only

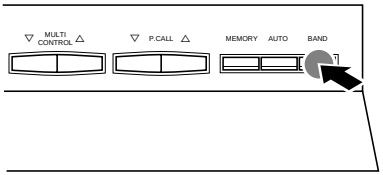
RDS (Radio Data System) is a system where radio stations transmit digital data for FM broadcasts along with the broadcast signal. Tuners and receivers designed for RDS reception can extract the data from the broadcast signal for use with various functions such as automatic display of the station name.

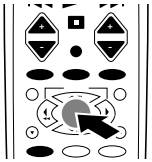
RDS Functions help you:

- Search for programs of a specific type using Program Type Identification Search (PTY search)
- View information about a station:
  - The station name
  - Any text data transmitted by the station
- Automatically select stations providing RDS and FM broadcasting and store them in the preset memory (up to 40 stations can be preset).

To tune into a radio station:

1. Select the **Tuner** input (see page 35).
2. Select the **FM** or **AM** band.





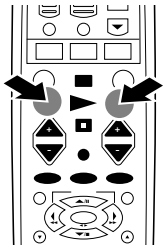
- Press the **BAND** button on the receiver
- Or press the **ENTER** (**BAND**) button on Remote Control unit.

3. Press Remote Control unit's **TUNING** (◄/◄◄, ►/►►) button or the receiver's **MULTI CONTROL** (△/▽) button to start Auto tuning until the desired station is tuned in.

   If the radio wave from the station is weak and hard to tune in, press the **AUTO**/**MONO** buttons on Remote Control unit or **AUTO** button on the receiver to select Manual tuning. In this mode, each press of the **TUNING** button varies the tuning frequency by one step.

To tune into a preset station:

1. Select the **Tuner** input (see page 35).
2. Press Remote Control unit's I◄◄ or ►►I button or the receiver's **P.CALL** (△/▽) button. Each press of the button switches the preset station (see "Presetting radio stations" on page 45).



When select a preset station using the numeric buttons: Press the numeric buttons as shown below.

To select 25: (+10), (+10), (5)

Storing RDS Station Automatically (for U.K. Only)

The following operation should be performed on the receiver.

1. Select the Tuner input (see page 27).
2. Select the FM band.
3. Press and hold the MEMORY button for more than 2 seconds.

The receiver locates and stores any FM stations broadcasting an RDS signal. This process can take a few minutes to complete; please be patient. While the receiver is searching, the tuner indicator on the receiver's front panel blinks.

RDS stations are stored in the order they are found, up to 40 stations. If the search finds fewer than 40 stations, the receiver may automatically store other FM stations in the open storage buttons.

If you are repeating the RDS search, any existing preset stations (whether automatically or manually stored) will be replaced by the results of the new search.

Presetting radio stations

The following operation should be performed on the receiver.

1. Select the Tuner input (see page 36).
2. Tune into a desired station (page 44).
3. Press the **MEMORY** button.
4. Press the **P.CALL** (△/▽) button to display the desired preset memory bank number.
5. Press the **MEMORY** button to preset the station under that number.
6. To preset other stations, repeat steps 2 to 5 for each.

For U.K.

Program Type Name	Receiver Display
Pop Music	POP M
Rock Music	ROCK M
Easy Music	EASY M
Light Classical Music	LIGHT M
Serious Classical Music	CLASSICS
Other Music	OTHER M
Weather	WEATHER
Finance	FINANCE
Children's programmes	CHILDREN
Social affairs	SOCIAL
Religion	RELIGION
Phone in	PHONE IN
Travel	TRAVEL
Leisure	LEISURE
Jazz Music	JAZZ
Country Music	COUNTRY
National Music	NATION M
Oldies Music	OLDIES
Folk Music	FOLK M
Documentary	DUCUMENT
News	NEWS
Current Affairs	AFFAIRS
Information	INFO
Sports	SPORT
Education	EDUCATE
Drama	DRAMA
Cultures	CULTURE
Science	SCIENCE
Varied Speech	VARIED

To search for a specific type of music or radio program (for U.K. only):

1. Select the Tuner input (see page 27).

2. Press the **Menu** (LCD function button 2) button.

3. Press the LCD cursor up/down (▲/▼) button to select "02. PTY", then press the Enter button (LCD function button 2). The PTY selection menu will appear. If no operation is performed for 8 seconds, the display automatically goes off.

4. Press the LCD cursor up/down (▲/▼) button to select the desired program type, then press the Search button (LCD function button 2). The program types are displayed in abbreviations shown on the previous page.

   - If the tuner cannot find the program type you want, "NO PROGRAM" appears on the receiver display. The display returns to its original display after several seconds.
   - If the tuner locates a station playing the program type you want, reception begins. The display changes to show the station name.

To change to a different program type, repeat Steps 3 through 4 above.

To cancel the program search, press **Home** button during the **PTY** search.

Recording

To record audio/video:

1. Select the recording input source device such as a AV device or tuner (see page 35).
2. Use Remote Control unit to select the channel and perform other required operations in the same way as with the remote of the selected AV device.
3. Press and hold the remote's **CONFIRM/SHIFT** button for about 2 seconds so that the **SHIFT** display appears, then select the recording device such as the VCR. For 8 seconds after the CONFIRM/SHIFT button is pressed, the input selection signal is not transmitted from the remote to the receiver even when an input is selected. Therefore, this period can be used to remote control the recording device without changing the input selection.
4. Press the remote's **REC** button to start recording.

For detailed operating procedures of your AV device, refer to its instruction manual.

To record a source connected through [SL 16] system control cord:

When recording audio from a CD player connected through a system control cord, the sync recording is available. (For the sync or synchro recording, refer to the instruction manual of your cassette deck or MD recorder.)

1. Select the **CD** input on Remote Control unit.
2. Put the cassette deck or MD recorder in Rec pause mode. When the CD starts to be played, recording is automatically started in synchronism.

- If you're recording from a digital source, any action other than adjusting the volume may cause the sound to "clip" on the recording.
- You cannot record from the component you are using to record. For example, if you're recording on a VCR connected to the VIDEO1 jacks, select a source other than Video 1.
- If your source is a camcorder or other video unit, refer to the instruction manual for the particular unit you're recording from.

Digital to Digital Recording:

The PCM digital signal input through any DIGITAL IN jack is output digitally at the digital jack. For more information on this connection, see "Connecting Your MD Recorder or Primary Tape Deck" on page 22 of the *Connections and Setup Guide*.

Dolby Digital, DTS and MPEG Multichannel signals cannot be recorded.

Digital to Analog Recording:

While home VCRs can record only two channels of audio, the receiver is capable of "down-mixing" the multi-channel audio of Dolby Digital, DTS or MPEG into stereo sound. Down-mixing is available by setting the Digital Rec mode to "REC MODE: AUTO" or "REC MODE: MANUAL".

Digital Rec mode:

Digital signals include a variety of signals such as the Dolby Digital, DTS and PCM signals.

When **REC MODE** is set to **AUTO**, digital input signals are automatically converted into analog stereo signals.

When **REC MODE** is set to **MANUAL**, only a specific signal among the digital signals can be converted into analog stereo signals.

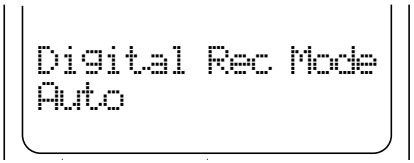
When **REC MODE** is switched to **MANUAL** in the middle of reproduction of a digital audio program, only the digital signal of the type being reproduced will be converted into analog stereo signals.

When **REC MODE** is switched to **MANUAL** while no source is played, only the PCM signal will be converted into analog stereo signals.

To set the Digital Rec mode:

1. Press the **F. SHIFT → REC** (**REC MODE**)* button on Remote Control unit.

2. Select "REC MODE: AUTO" or "REC MODE :MANUAL".



It is not possible to recording monitor a digital source signal onto the device connected to the **CD2/TAPE2 MONITOR** input.

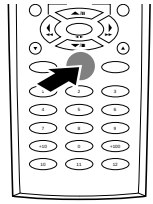
When a source recorded by down-mixing a multi-channel source is played back in the Dolby Pro Logic mode, the audio can be reproduced in 4-channel surround sound.

* When an operation is described as [**F.SHIFT → REC** (**REC MODE**) button], for example, press the **F.SHIFT** button and press the next button (the **REC** (**REC MODE**) button in this case) within 8 seconds.

How Do I Adjust the LCD Display?

Using Remote Control unit under low light

When using Remote Control unit under low light, the backlight of the LCD display can be turned on.



- Press and hold the **F.SHIFT** button for more than 2 seconds.

  The backlight is turned on and off every 2 seconds of holding.

If the ▭ is blinked, the backlight cannot be turned on because the batteries are nearly exhausted.

(Replace with new batteries)

Adjusting the contrast of LCD display

The contrast of the LCD display can be adjusted to improve the visibility.

1. Press the Music button or Movie button to display "Menu".
2. Press the Menu (LCD function button 2) button.
3. Press the Setup (LCD function button 2) button.
4. Press the LCD cursor up/down (▲/▼) button to select "03. Contrast", then press the Enter button.
5. Select the desired contrast with the LCD cursor up/down (▲/▼) button. The previous menu re-appears in about 3 seconds after the above operation.

Adjusting the brightness of receiver

When the ambient light is low, for example in the night, the brightness of the receiver's display can be dimmed and LED indicators (THX, DTS, D.R.I.V.E., DOLBY DIGITAL, MPEG, HDCD and 2-way communication indicator) can be disabled.

- Press the **F.SHIFT → SOUND** (**DIMMER**)* buttons. Each press of the **SOUND** (**DIMMER**) button switches the brightness as shown below.

①	Display/bright	Indicators/enabled
②	Display/dim	Indicators/enabled
③	Display/dim	Indicators/disabled

Selecting the display mode of receiver front panel

- Press and hold the **LISTEN MODE (DISPLAY)** button on the receiver for more than 2 seconds.

The displayed information is switched every 2 seconds of holding the button.

A: Connected Device — Input Mode
DVD — **AUTO**

B: Input Terminal — Connected Device
VIDEO3 : — **DVD**

C: Listen Mode
DOLBY DIGITAL

"Input Mode" is displayed only when a selector with digital input is selected.

When the selected input is **PHONO**, **TUNER** or **AV AUX**, the connected device and listen mode are displayed alternately. (Switching between A and C). "Input mode" and "Connected Device" do not be displayed.

The TUNER display shows the frequency.

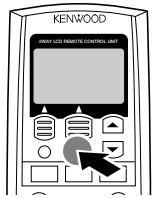
* When an operation is described as [**F.SHIFT → SOUND** (**DIMMER**) button], for example, press the **F.SHIFT** button and press the next button (the **SOUND** (**DIMMER**) button in this case) within 8 seconds.

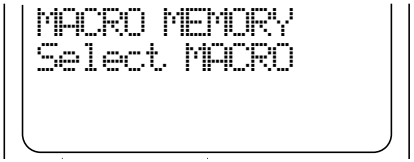
Executing Several Operations at Once (Macro function)

By registering several steps of remote control operations beforehand, these operations can be executed with a single operation. This function is referred to as the macro function. The receiver can register up to three sets of macros. Up to 20 operation steps can be recorded for one macro.

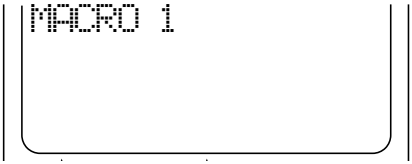
Registering a macro

1. Press and hold the **MACRO** button on Remote Control unit for more than 2 seconds.





2. Within 8 seconds, press the **MUSIC** (MACRO1), **MOVIE** (MACRO2) or **TV** (MACRO3) button.



3. Press the control buttons in the order you want to execute them.
4. Press the **MACRO** button. Now the registration is complete.
5. Check the macro according to the following "Executing a macro" procedure.

   When there is a function which does not perform interim operation, a delay must be inserted. To insert a delay, insert a macro step for a button not related to the operation at that time (for example the STOP button during stop) etc. before the function for which the operation is to be delayed.

Press each button slowly and firmly.

"Full" is displayed when the maximum number of steps have been registered.

If you do not perform any operation for more than 8 seconds in the middle of registration, the registration mode is canceled and the previous registration remains without being cleared.

Example of registration:

In the following example, the steps for turning the TV on, turning the VCR on, setting the TV channel and playing the VCR will be registered in MACRO 2.

1. Press and hold the **MACRO** button on Remote Control unit for more than 2 seconds.
2. Within 8 seconds, press the **MOVIE** (MACRO2) button.
3. Perform registration.
    1. Press the **TV** button to select TV.
    2. Press the **AV POWER** button.
    3. Press the **MOVIE** button.
    4. Press the **AV POWER** button.
    5. Press the ► button.
4. Press the **MACRO** button.

Now the registration is complete.

Executing a macro

1. Press the **MACRO** button on Remote Control unit.
2. Within 3 seconds, press the **MUSIC** (MACRO1), **MOVIE** (MACRO2) or **TV** (MACRO3) button.

The registered macro will be executed.

After macro execution, the LCD display returns to the previous condition.

Using Remote Control Unit in Multiple Zones

The KRF-X7775D offers dual-zone output and control, which enables you to use a single receiver to control devices and speakers for 2 zones. Due to its advanced features and controls, you can listen to music in one zone while a movie plays in the other!

Depending on your tastes and budget, you can set up one of the following "sound scenarios" to make full use of the KRF-X7775D's capabilities:

No additional amplifier for Zone B: You can use your receiver's Speaker B output for Zone B. This allows you to listen to full surround sound in Zone A only, or in stereo in Zone A when Zone B is active. The sound in Zone B will always be in stereo.

Stereo amplifier for Zone B: You use an additional stereo amplifier for Zone B (connected to the receiver's Second Zone Preouts). This allows you to hear full surround sound in Zone A even if you are also listening in Zone B. The sound in Zone B will always be in stereo.

This section covers only multiple-zone operation of the receiver. See Chapter Two for general operating instructions.

How Do I Switch Control Modes?

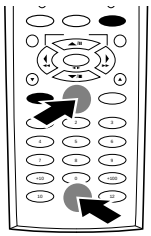
You can use Remote Control unit to operate your receiver and source devices from 2 different zones. To do so, you need to switch control modes to control the devices from each zone.

To make operations from Zone B easier, we recommend that you purchase a second Remote Control unit. That way you can leave one Remote Control unit in Zone A that is always set up for Zone A operation, and another Remote Control unit in Zone B that is always set up for Zone B operation.

Some system control features are not available when the Remote control unit is set up for multi-zone control.

To switch control modes for Zone A or Zone B:

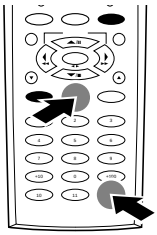
1. Press the **F. SHIFT → 11 (MULTI ZONE)*** button on Remote Control unit.



Each time the **F. SHIFT → 11 (MULTI ZONE)*** button is pressed, switches the On and Off.

Operating Devices in Zone B

1. Press the **F. SHIFT → 12 (ZONE A/B)*** button on Remote Control unit.



Each time the **F. SHIFT → 12 (ZONE A/B)*** button is pressed, switches Zone A and Zone B.

Devices connected via digital jacks only cannot be listened to in Zone B. We recommend that you connect the analog jacks of all devices. You must use the composite video connections. Only video sources connected with composite connectors can be viewed in the second zone.

* When an operation is described as [**F.SHIFT → 11 (MULTI ZONE)** button], for example, press the **F.SHIFT** button and press the next button (the **11 (MULTI ZONE)** button in this case) within 8 seconds.

Operation using the SYS.POWER button on Remote Control unit

To perform the Multi-Zone operation, switch the Multi Zone function On in advance (see page 55).

1. When the receiver is OFF (STANDBY mode):
   - To output the video and audio to Zone A, set the Zone setting of the remote to Zone A then press the SYS.POWER button on the remote.
   - To output the video and audio to Zone B, set the Zone setting of the remote to Zone B then press the SYS.POWER button on the remote.
2. When the video and audio are output to Zone A only:
   - To turn the receiver OFF (STANDBY mode), set the Zone setting of the remote to Zone A then press the SYS.POWER button on the remote.
   - To output the video and audio to Zone B, set the Zone setting of the remote to Zone B then press the SYS.POWER button on the remote.
3. When the video and audio are output to Zone B only:
   - To turn the receiver OFF (STANDBY mode), set the Zone setting of the remote to Zone B then press the SYS.POWER button on the remote.
   - To output the video and audio to Zone A, set the Zone setting of the remote to Zone A then press the SYS.POWER button on the remote.
4. When the video and audio are output to both Zone A and Zone B:
   - To turn the receiver OFF (STANDBY mode), set the Zone setting of the remote to Zone A then press the SYS.POWER button on the remote.
   - To defeat the video and audio outputs to Zone B, set the Zone setting of the remote to Zone B then press the SYS.POWER button on the remote.

The receiver can also be turned OFF (STANDBY mode) by pressing the POWER button on the receiver.

Chapter Three: Button Layout in Controlling Other Devices

The remote control unit provided with the receiver can also control a variety of AV devices. As the functions of the buttons are variable depending on the controlled device, it is recommended to control each device by referring to a function chart. The following three kinds of buttons are used to control their respective functions.

1. Remote control buttons

   The buttons which are operated in the same way as ordinary remote control are referred to as remote control buttons.

   ① Select the device to be controlled by pressing the **MUSIC** button, **MOVIE** button or **TV** button.
   ② Press the button corresponding to the desired operation.

2. Display buttons

   Pressing the LCD function buttons (,) and LCD cursor up/down buttons (/) displays a menu for use in control.

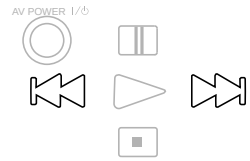
   ① Select the device to be controlled by pressing the **MUSIC** button, **MOVIE** button or **TV** button.
   ② Press the Menu button (LCD function button 2) to display the control menu.
   ③ Select the controlled item by pressing the LCD cursor up/down button (/) then press the LCD function button 2 ( ) to set the selection.

3. **F.SHIFT** button

   In addition to the functions displayed on remote control buttons, the functions displayed in blue characters on the panel above the buttons can also be used. To use one of them, press the **F.SHIFT** button then press the desired button within 8 seconds.
   (Example) To use the REPEAT function: Press the **F.SHIFT** button then press the **1(REPEAT)** button.

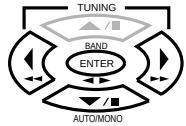
1. Although the remote control unit provided with the receiver has been designed to be used in remote control of multiple devices, there may be certain devices which cannot be remote controlled by it.
2. Certain devices may function differently from the intended function.

Tuner Operation



: P.CALL DOWN

: P.CALL UP

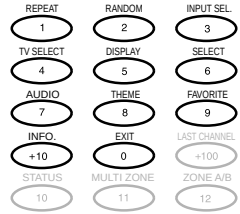


BAND

AUTO/MONO

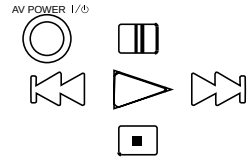
TUNING ◄

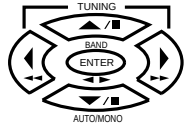
TUNING ►



Numeric buttons
(0 to 9, +10)

Cassette deck Operation





REC : Record (B)

: Play (►) (A)

: Pause (A)

: Stop (A)

: F. Rewind (A)

: F. Forward (A)

ENTER : Play (►) (B)

▲/II : Pause (B)

◄◄ : F. Rewind (B)

►► : F. Forward (B)

▼/■ : Stop (B)

Use with F.SHIFT button :

ENTER : Play (◄) (B)

Use with F.SHIFT button :

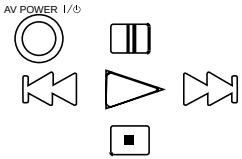
: Play (◄) (A)

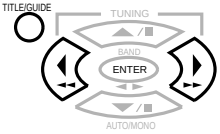
Display buttons

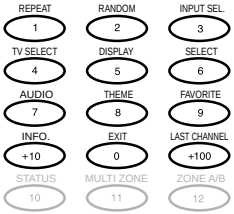
01 - 05 : Extend1 - 5

There may be certain devices which cannot be remote controlled by it.

CD Player Operation







: Pause

: Play/Pause

: Stop

: Skip (Reverse)

: Skip (Forward)

: Disc select (DISC Up)

: Disc select (DISC Down)

◄◄ : F. Backward

►► : F.Forward

TITLE/GUIDE : Track Title

Numeric buttons (0 to 9, +10, +100)

Use with F.SHIFT button :

1 : Repeat
2 : Random
5 : Display

Display buttons

01 : Disc sel.
02 : Set
03 : P.Mode
04 : Check
05 : Clear
06 : Disc Title

Display buttons

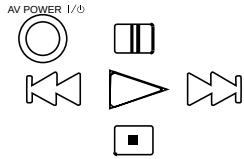
07 : Track Title
08 : All Data Read
09 : Subout Mon (Subout Monitor)
10 : Cnts Play (Continuouse Play)
11 : All Info.

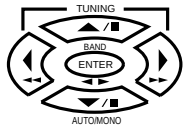
Display buttons

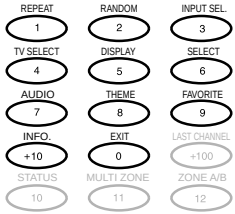
12 - 16: Extend1-5 (there may be certain devices which cannot be remote controlled by it.)

There may be certain devices which cannot be remote controlled by it.

CD-R Recorder Operation







: Play

: Pause

: Stop

: Skip (Reverse)

: Skip (Forward)

: F. Forward

: F. Backward

ENTER: Enter

▲ : Cursor UP

▼ : Cursor DOWN

◄ : Cursor Left

► : Cursor Right

REC **REC** : Record

Numeric buttons (0 to 9, +10)

Use with F.SHIFT button :

1 : Repeat

2 : Shuffle/ Random

5 : Display

Display buttons

01 : Open/Close

02 : CDR Mode

03 : CD Mode

04 : Program

05 : Rec Mute

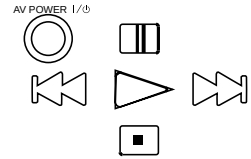
06 : Clear

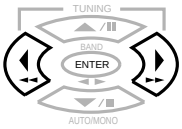
Display buttons

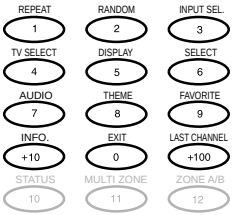
07 - 11 : Extend1 - 5

There may be certain devices which cannot be remote controlled by it.

MD Player Operation







: Play

: Pause

: Stop

: Skip (Reverse)

: Skip (Forward)

◄◄ : F. Backward

►► : F.Forward

REC **REC** : Record

Numeric buttons
(0 to 9, +10, +100)

Use with F.SHIFT button :

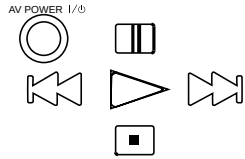
1 : Repeat
2 : Random
5 : Time

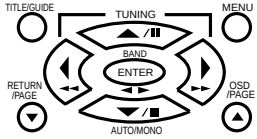
Display buttons

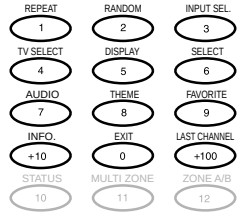
01 - 05 : Extend1 - 5
(there may be certain devices which cannot be remote controlled by it.)

There may be certain devices which cannot be remote controlled by it.

DVD Player Operation







: Play
: Pause
: Stop
: Skip (Reverse)
: Skip (Forward)
: F. Forward
: F. Backward

Use with F.SHIFT button :
: Slow Reverse
: Slow Forward

ENTER : Enter
▲ : Cursor Up
▼ : Cursor Down
◄ : Cursor Left
► : Cursor Right

MENU : Menu
TITLE/GUIDE : Title
OSD /PAGE : OSD
RETURN /PAGE : Return

Numeric buttons (0 to 9, +10, +100)

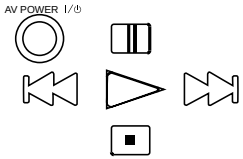
Use with F.SHIFT button :
1 : Repeat
2 : Random
5 : Display
7 : Audio

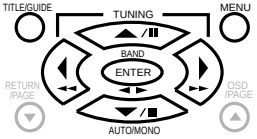
Display buttons

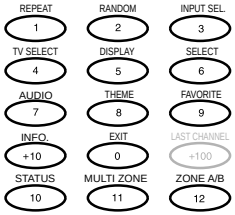
01 : Disc Sel
02 : Chapter/Time
03 : Angle
04 : PGM
05 : DVD Setup
06 : Memory
07 : Clear
08 : Repeat A-B
09 : Sub Title
10 : Title Search
11 : Disc Title
12 : Track Title
13 : All Data Read
14 : Aspect
15 : On/Off
16 - 20 : Extend1 - 5

There may be certain devices which cannot be remote controlled by it.

VCR Operation







: Play

: Pause

: Stop

: F Rewind

: F. Forward

: Channel (Up)

: Channel (Down)

ENTER : Enter

▲ : Cursor Up

▼ : Cursor Down

◄ : Cursor Left

► : Cursor Right

MENU : Menu

TITLE/GUIDE : Guide

REC **REC** : Record

Numeric buttons
(0 to 9, +10)

Use with F.SHIFT button :

3 : Input select

Display buttons

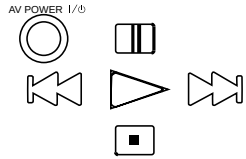
01 : Thumb Up
02 : Thumb Down
03 : Jump
04 : Inst. Replay
05 : Quick Skip
06 : Exit

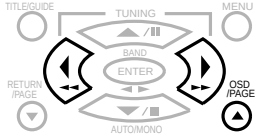
Display buttons

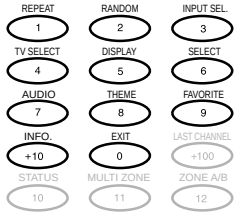
07 - 11 : Extend1 - 5

There may be certain devices which cannot be remote controlled by it.

LD Player Operation







: Play / Pause

: Pause

: Stop

: Skip (Reverse)

: Skip (Forward)

: Slow (Forward)

: Slow (Reverse)

ENTER: Enter

◄ : F. Backward

► : F. Forward

OSD /PAGE : OSD

Numeric buttons (0 to 9, +10)

Use with F.SHIFT button :

1 : Repeat
2 : Random
5 : Display

Display buttons

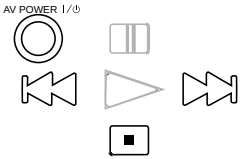
01 : Frame/Time
02 : Side A or A/B
03 : Side B

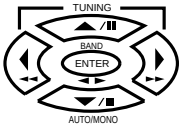
Display buttons

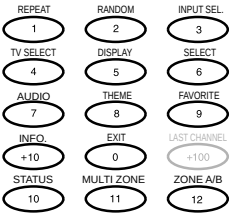
04 - 08 : Extend1 - 5

There may be certain devices which cannot be remote controlled by it.

TV Operation







: Mute
: Volume (Down)
: Volume (Up)
: Channel (Up)
: Channel (Down)

ENTER : Enter
▲ : Cursor Up
▼ : Cursor Down
◄ : Cursor Left
► : Cursor Right

Numeric buttons
(0 to 9, +10)

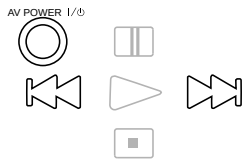
Use with F.SHIFT button :
3 : Video Select
4 : TV Select
7 : Alt. Audio

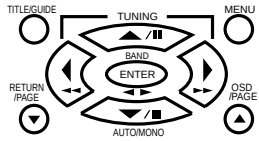
Display buttons
01 : – / – –
02 : > 12
03 : Wide
04 : Pic. In Pic. (Picture in picture)
05 : Text/Mix/TV
06 : Text off
07 : Mix
08 : Exit

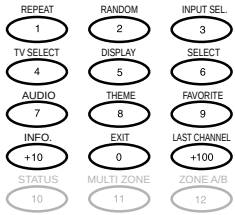
Display buttons
09 - 13 : Extend1 - 5

There may be certain devices which cannot be remote controlled by it.

Cable TV Player Operation







⏮ :
Volume (Down)

⏭ :
Volume (Up)

CH+ : Channel (Up)

CH− : Channel (Down)

ENTER : Enter
▲ : Cursor UP
▼ : Cursor DOWN
◄ : Cursor Left
► : Cursor Right

MENU : Menu

TITLE/GUIDE : Guide

OSD /PAGE : Page Up

RETURN /PAGE : Page Down

Numeric buttons
(0 to 9, +10, +100)

Use with F.SHIFT button :
0 : Exit
3 : Input Select
5 : OSD
6 : Select
8 : Theme
9 : Fav.
+10 : Info.
+100:Last Channel

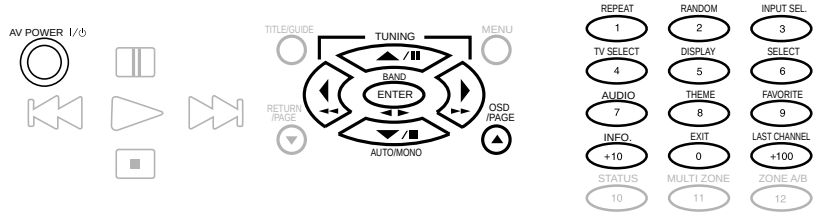
Display buttons

01 : A
02 : B
03 : C

04 - 08 : Extend1 - 5

There may be certain devices which cannot be remote controlled by it.

Satellite tuner Operation



: Channel (Up)

: Channel (Down)

ENTER : Enter

▲ : Cursor Up

▼ : Cursor Down

◄ : Cursor Left

► : Cursor Right

OSD /PAGE : OSD

Numeric buttons
(0 to 9, +10, +100)

Use with F.SHIFT button :

3 : Input Select

6 : Select

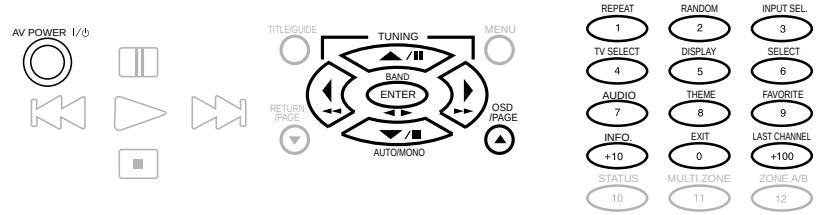
7 : Alt. Audio

Display buttons

01 - 05 : Extend1 - 5

There may be certain devices which cannot be remote controlled by it.

DSS Operation



: Channel (Up)

: Channel (Down)

ENTER : Enter
▲ : Cursor Up
▼ : Cursor Down
◄ : Cursor Left
► : Cursor Right

MENU : Menu

TITLE/GUIDE : CH Guide

Numeric buttons
(0 to 9, +10,+100)

Use with F.SHIFT button :
3 : Input Select
6 : Select
7 : Alt. Audio
8 : Theme
9 : Fav.
+10 : Info.

Display buttons
01 : Exit
02 - 06 : Extend1 - 5

There may be certain devices which cannot be remote controlled by it.

Chapter Four: Troubleshooting

Troubleshooting is how you determine what part of a complex system (like a home theater system) is at fault when the system isn't working how you think it should. When you troubleshoot a system, you diagnose a problem by examining and eliminating possible causes until there's only one left. Troubleshooting is easiest when you start with the most obvious, most common, and most likely and work from there.

Diagnosing your own problems can save you time and aggravation—the better you understand how to troubleshoot and adjust your own system, the less time you have to:

- spend on the phone with a customer service representative
- do without your receiver because it's "in the shop"

There are some basic steps to good troubleshooting:

1. **Verify the exact conditions when the problem occurs.**

   This is the most important step in troubleshooting. Whether you fix it yourself or have to describe it to a technician, you are much more likely to really solve the problem if you know the exact circumstances surrounding the problem. For example, if you don't hear anything through the speakers, it's useful to know if it only happens when you are listening to CDs. Knowing that eliminates the speakers themselves as part of the problem. The more you know about when a problem occurs, the more likely it is that you or the technician can solve it.

2. **Check each part of the signal's path from source (such as a CD player) to speaker.**

   You may also want to test the assumptions you made in step 1: maybe you haven't listened to your MD recorder in a while— is there no sound from it as well? This step will really help narrow down the possible causes. Test all your connected components and eliminate the ones where the problem doesn't occur. When you're done with this step, you'll probably have found the problem.

3. **Go over all component connections slowly and methodically. Double-check the settings on your remote.**

   Wrong or loose connections are the most likely cause of the most common home entertainment problem: no sound. Use the *Connection and Setup Guide* to double-check your connections for each component. This is especially important with VCRs, tape decks, MD recorders, and equalizers, where it's very easy to swap the "play" and "record" connections.

   For the KRF-X7775D you should also check your Remote Control unit settings carefully. Did you set the input to the correct component? (you can also check the front panel of the receiver) Are you trying to listen to an analog source using a digital connection?

4. **Cables (especially old ones) go bad more frequently than components do.**

   Always suspect the cable before its component. For one thing, it's easier to test: simply swap the cable with one connected to a component you know *is* working. If the problem component works now, it was the cable. You can generally purchase new cables at most home electronics stores, or via the Internet.

5. **User error is more likely than component failure.**

   You probably don't want to hear this, but it's true. Use this manual to go over the steps to operate the receiver. Refer to the other components' manuals as well.

6. **Instruction manuals are your friend.**

   A good rule of thumb is to check the manual when something doesn't work how you expected it to. If you read the manual before calling the store or taking the component back, you may find the solution to your problem much more quickly.

The rest of this chapter presents some common problems, grouped by type, and the steps you can take to resolve them.

Sound

I don't hear any sound at all
Check that:

- The volume is set at the proper level. See "Adjusting the Volume" on page 10 of this manual.
- Mute is **OFF**. If the **MUTE** indicator on the front of the receiver is blinking, **MUTE is ON**. See "Muting Sound" on page 16 of this manual.
- The proper input (e.g., CD player, Tuner, etc.) has been selected on the Remote Control unit. See "How Do I Operate Devices?" on page 36 of this manual.
- The proper zone has been selected. See "How Do I Switch Control Modes?" on page 54 of this manual.
- The **CD2/TAPE2 MONITOR** input has not been selected. (If it has, the **CD2/TAPE2 MONITOR** indicator on the receiver's front panel will be lit). See "What's on the Front Panel of Your Kenwood Audio - Video Receiver?" on page 2 of this manual.
- The input mode matches the input signal (e.g., analog vs. digital) that has been set. See "Switching Input Modes" on page 23 of this manual.
- The correct Input Mode (e.g., Full Auto) has been set for the digital input. See "Input Modes" on page 22.
- The correct speakers have been activated. See "Turning the Speakers On" on page 9 of this manual.

Audio is not output only when a 96k fs compatible disc is played.

- The optical cable may be bent. Use a new optical cable.
- Check that the optical cable connector is connected properly.
- Certain DVD player models inhibit digital output. Use analog cables with such a DVD player.

The 96k fs indicator does not light while a 96k fs compatible disc is being played.

- The indicator will not light unless the DVD player is properly set.

I can't hear sound from one or more of the speakers, or the sound is abnormally low

Check that:

- All of the speaker wires are connected tightly, not short circuited. See Chapter One of the *Connections and Setup Guide*.
- All of the speakers have been activated in the Setup Speakers menu. See Chapter Two of the *Connections and Setup Guide*.
- The individual speaker levels are set properly. See Chapter Two of the *Connections and Setup Guide*.
- The **CD2/TAPE2 MONITOR** input has not been selected. (If it has, the **CD2/TAPE2 MONITOR** monitor indicator on the receiver's front panel will be lit). See "What's on the Front Panel of Your Kenwood Audio - Video Receiver?" on page 2 of this manual.
- The correct speakers have been activated. See "Turning the Speakers On" on page 9 of this manual.
- The correct listen mode has been selected. See "What are Listen Modes?" on page 18 of this manual.

I can't hear sound from my surround or center speakers

Check that:

- The proper surround play mode (Dolby Pro Logic, Dolby Pro Logic II, DSP, MPEG, DTS NEO:6, DTS, DTS-ES or Dolby Digital) has been selected. See "What are Listen Modes?" on page 18 of this manual.
- All of the speaker wires are connected tightly. See Chapter One of the *Connections and Setup Guide*.

I can hear sound only from the center speaker when Dolby Pro Logic is selected

Check that the program (e.g., TV show, radio station, VCR tape) is in stereo. Programs in mono play only through the center speaker when the receiver is in the Dolby Pro Logic listen mode.

A DTS-ES encoded source is played but it is not decoded in DTS-ES.

- DTS-ES decoding in playback is not available if THX is set to THX Surround EX On, THX Surround EX Auto or THX is On. Set THX to Off. See "To Set the THX Mode" on page 24 of this manual.

A Dolby Digital Surround EX-encoded source is played with THX Surround EX set to "Auto", but the source is not reproduced in 6.1-channel audio.

- Some encoded sources (discs) do not contain the recording of the encoding identification signal. To reproduce such sources in 6.1-channel audio, set THX Surround EX to ON. See "To set the THX Mode" on page 24 of this manual.

Sound from one (or more) of my components is abnormally loud or soft

Adjust the analog input level for that component: See "Adjusting the Input Level" on page 15 of this manual.

I can't hear sound from some of my laser discs

Check that the disc contains a digital soundtrack (the disc's cover will bear a "digital sound" logo). Some older laser discs contain only analog soundtracks. If the disc does not have a digital soundtrack, change the input type to Analog. See "Switching Input Modes" on page 23 of this manual and also read the manual of your laser disc player.

There wasn't any sound recorded on tapes made on my VCR or tape deck

Check that:

- The audio cables are connected properly for the component.
- The source is connected via an analog jack set . See Chapter One of the *Connections and Setup Guide*.
- Analog has been set as the input mode. Digital inputs such as Dolby Digital, DTS or MPEG need to be downmixed into two channels for recording to analog media (such as VHS or audio tape). See "Digital to Analog Recording" on page 48.

The initial sound is intermittent or non-existent when I start to play from a Dolby Digital, DTS, DTS-ES or MPEG source

- Some DVD players simply have intermittent start-up sound.
- Check that the correct digital cable is being used. The cable must be a *digital* coaxial or optical cable. See Chapter One of the *Connections and Setup Guide*.

With a Dolby Digital program or DTS program, the loud sounds aren't very loud and the quiet sounds aren't very quiet
Check that volume extremes are not automatically being balanced. See "Midnight Theater Function" on page 16 of this manual.

All I hear is loud static when I play DTS discs
- Check that Digital has been set as the input mode. DTS discs do not output analog sound. See "Switching Input Modes" on page 23.
- DTS discs can only be played in Zone A

I hear a hum when I select the PHONO input
Check that:
- The audio cables are connected securely to the Phono jack set. See Chapter One of the *Connections and Setup Guide*.
- The turntable is grounded on the receiver. See Chapter One of the *Connections and Setup Guide*.

Sound is intermittent
Attach the provided protective cap to the unused OPTICAL inputs. If the light from a fluorescent lamp or direct sunlight enters through this connector, the played audio will be intermittent.

I can't hear any sound in Zone B
Check that:
- Multiple Zones is activated.
- The volume in Zone B is turned up. See "Operating Devices in Zone B?" on page 55 of this manual.
- The Zone B speakers are turned on if using Speaker B outputs for Zone B (as opposed to Second Zone Pre Outs). See "Turning the Speakers On" on page 9 of this manual.
- The source is connected via an analog jack set (digital inputs are not sent to Zone B). See Chapter One of the *Connections and Setup Guide*.

Video

I can't see the program I'm playing on the TV. There wasn't any video output to my VCR when I recorded
- Check that the video source and TV are connected via the same type of connectors (For VR-5080).

- Check that the correct video input on the TV is selected.
- Check that the video software you record does not have copy guard protection.
- All Zone B inputs must be composite. S-Video is not supported in Zone B.

Remote Control unit

My Remote Control unit is slow to respond—sometimes I have to press buttons or select commands several times

- If Remote Control unit is in sleep mode (the screen is blank), the first button press "wakes it up". The second press performs the action.
- Your Remote Control unit supports 2-way communication with the receiver. If the 2-way communication indicator on the front of the receiver is lit, Remote Control unit is receiving information. It cannot transmit your new command until it is finished receiving information from the receiver.

My Remote Control unit is not responding

- Make sure you are within the operating range for Remote Control unit. See "Remote controllable range" on page 7 of this manual.
- Replace the batteries. See Chapter Two of the *Connections and Setup Guide*.
- If you're using an IR receiver, make sure it is connected properly and turned on. See Chapter four of the *Connections and Setup Guide*.
- Check the contrast of the LCD display is adjusted properly. See "How Do I Adjust the LCD Display" on page 50.
- When the **RF ON/OFF (INPUT MODE)** button is pressed for 2 seconds or longer, "RF OFF" will be displayed. In this condition, the main unit can not receive remote control signals. Press the **RF ON/OFF (INPUT MODE)** button again for at least 2 seconds to display "RF ON". See page 49 of the *Connections and Setup Guide*.
- If you want to use Remote Control unit by setting the control mode to Zone B, make sure that the Multi-Zone function is On. If this function is Off, you cannot control Zone B from Remote Control unit.

I want to clear all the items in Remote Control unit and make it to the factory-set default condition.

1. Remove the batteries.
2. While holding the (function up) button and button simultaneously, load the batteries.

   After the above, all settings are reset to the factory settings.

The RF remote control function does not work.

- Connect the antenna. See page 33 of the *Connections and Setup Guide.*
- Make sure that the correct RF band is selected. See page 43 of the *Connections and Setup Guide.*
- The operation range of the Remote Control unit will be influenced according to the material of the obstacles between the Remote Control unit and the receiver. Please confirm that there is no such influence.
- Make sure that no interference from electrical appliances occurs.

Receiver/Tuner

My receiver won't turn on and the STANDBY indicator is flashing
Your receiver is in the "protection" mode.

Check that:

- The speaker system's impedance is not too low. See Chapter One of the *Connections and Setup Guide*.
- The speaker wires are not short-circuited. Test the wires as follows to find the shorted wire and replace it:
  ① Turn off the receiver, disconnect the positive and negative speaker wires of the **RIGHT FRONT** speaker from the receiver, and turn the receiver back on.
  ② If the **STANDBY** indicator stops flashing, replace this wire.
  ③ If the **STANDBY** indicator does not stop flashing, turn off the receiver, reconnect the speaker wires, and repeat the first step for the next speaker.
  ④ Continue until you have isolated and replaced the shorted wire.
  ⑤ See Chapter One of the *Connections and Setup Guide*.

If none of the above solutions work, reset the microprocessor:

1. Turn the receiver off.
2. Unplug the receiver.
3. Plug it back in while pressing and holding the Power switch (you may need someone else to help you do this)
    - The component set as input (Tuner is selected by default)—see "How Do I Operate Devices?" on page 36 of this manual.
    - The volume setting (-48dB is selected by default)—see "Adjusting the Volume" on page 10 of this manual
    - The tuner's receiving band (FM is selected by default)— see "Radio Tuning" on page 44 of this manual
    - The tuner's frequency (87.5MHz is selected by default)— see "Radio Tuning" on page 44 of this manual
    - The tuner's preset memory—you will need to reset your stored radio stations (see "Presetting radio stations" on page 45 of this manual)
    - The surround setting—see "What are Listen Modes?" on page 18 of this manual
    - The speaker settings—you will need to reset your speaker settings (see Chapter Two of the *Connections and Setup Guide*)

Reset the cleared settings before operating the receiver again.

The sound is distorted, and the CLIP indicator on the receiver's front panel flashes red continually, or stays red for more than 1 second at a time

Lower the analog input level for the source component you're listening to. (Setting the proper input level eliminates distortion that occurs if a source component's output level is too high. When this happens, the front panel CLIP indicator will flash red continually or remain red for periods of 1 second or longer. Occasional brief flashing of the CLIP indicator is okay). Adjust the analog input level for that component: See "Adjusting the Input level" on page 15 of this manual.

I can't receive a radio station

Check that:

- The appropriate antenna is connected. See Chapter One of the *Connections and Setup Guide*.
- The broadcast band is correct. See "Radio Tuning" on page 44 of this manual.
- The tuner is set to the correct frequency. See "Radio Tuning" on page 44 of this manual.

I'm getting a lot of static/interference

- Check whether the receiver or antenna is too close to a TV or other electrical appliance.
- Adjust the antenna for best reception.
- If you live in an area with weak FM signals, consider a rooftop FM antenna (available at any home electronics store).

When I press a button to tune to a preset station, the receiver does not respond

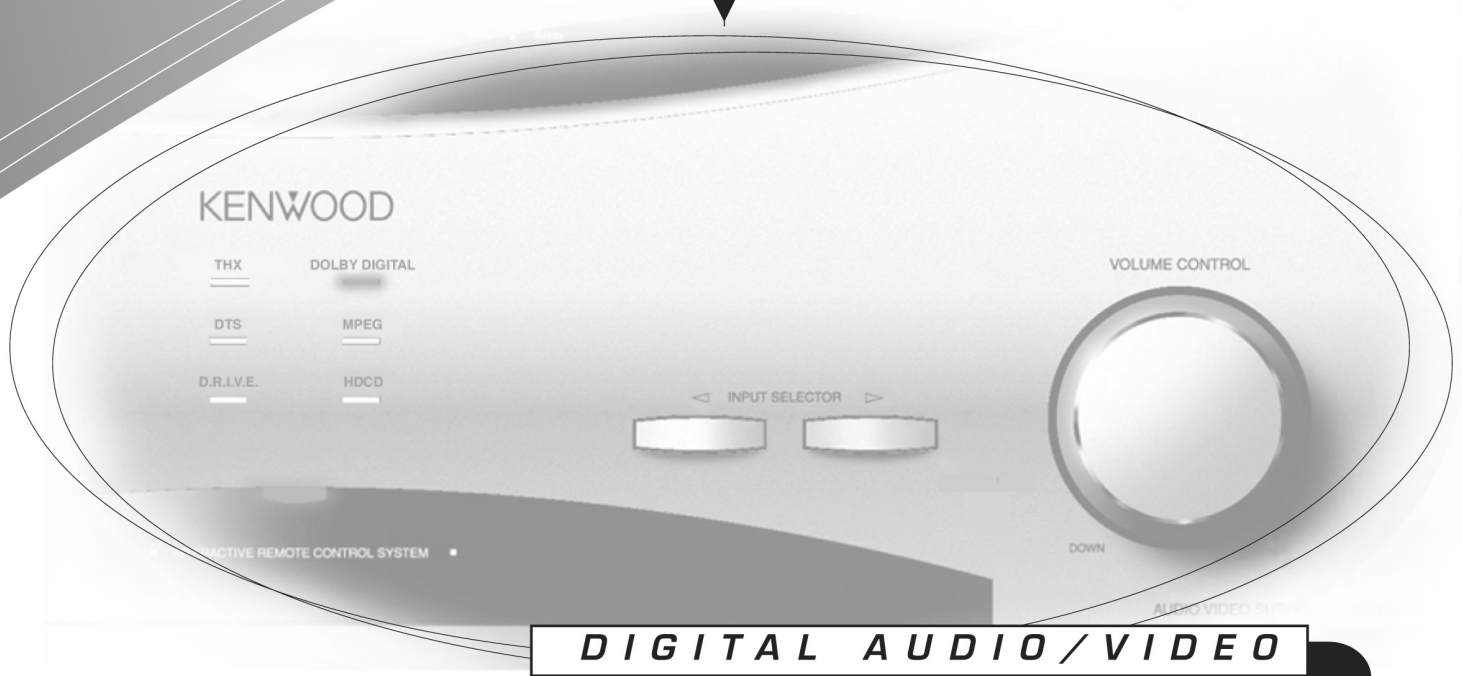
Check whether:

- The receiver has been unplugged for more than three days. If it has, your settings were cleared from the receiver's memory. See "My receiver won't turn on and the STANDBY indicator is flashing" on page 76 of this manual.
- The Tuner input is selected. See "Radio Tuning" on page 44 of this manual.

how to

connect and set up your

KRF-X7775D



DIGITAL AUDIO/VIDEO

Receiver

KENWOOD

Connection and Setup Guide

B60-4863-00 00 (CH) (T, M, X, Y) OC 0011

Before Applying Power

Read this section carefully to ensure safe operation.

KRF-X7775D is designed for operation as follows.

U.K. and Europe ..... AC 230 V only
Australia ..... AC 240 V only
***Other countries**
..... AC 110-120/220-240 V switchable

***For other countries**
AC voltage selection

The AC voltage selector switch on the rear panel is set to the voltage that prevails in the area to which the unit is shipped. Before connecting the power cord to your AC outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.

AC voltage selector switch

Move switch lever to match your line voltage with a small screwdriver or other pointed tool.

Note:
Our warranty does not cover damage caused by excessive line voltage due to improper setting of the AC voltage selector switch.

For United Kingdom

Factory fitted moulded mains plug

1. The mains plug contains a fuse. For replacement, use only a 13-Amp ASTA-approved (BS1362) fuse.
2. The fuse cover must be refitted when replacing the fuse in the moulded plug.
3. Do not cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or adapter, or consult your dealer.

   If nonetheless the mains plug is cut off, remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

IMPORTANT : The wires in the mains lead are coloured in accordance with the following code:

Blue : Neutral
Brown : Live

Do not connect those leads to the earth terminal of a three-pin plug.

Safety Precautions

Read this section carefully to ensure safe operation.

WARNING :

TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

	CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
	THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, 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.
	THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

Connecting and Setting Up Your New Kenwood Audio-Video Receiver

Welcome to the Connection and Setup Guide for your new Kenwood audio-video receiver. This manual covers three models.

The KRF-X7775D offers 3 kinds of 5.1-channel digital surround sound decoding:

- Dolby Digital, for the hundreds of currently available Dolby Digital DVDs and LaserDiscs.
- DTS, a well-established multichannel format in movie theaters, is available for home theater on LaserDisc and DVD.
- MPEG Multichannel, a well-established multichannel format in movie theaters, is available for home theater on LaserDisc and DVD.

The KRF-X7775D also offers 2 kinds of 6.1-channel decoding:

- THX Surround EX technology reproduces a surround back channel from software which has been specially encoded with Surround EX.
- DTS-ES also creates a 6.1-channel surround environment by adding the surround back signal. The KRF-X7775D can handle both DTS-ES Discrete 6.1 featuring recording of all channels in the digital discrete format and DTS-ES Matrix 6.1 featuring matrix encoding.

In addition, the KRF-X7775D offers the following surround features.

- DTS-NEO:6: This converts 2-channel signals into 6.1-channel signals by means of a high-accuracy digital matrix decoder.
- Dolby Pro Logic II: This is advanced version of Dolby Pro Logic and features improved audio quality.
- THX Select: This corrects signals in order to reproduce a similar acoustic field to movie theaters in home use.

Use it to connect all your current audio and video components—the KRF-X7775D has a variety of connection jacks so you can customize your entertainment setup.

It also includes Kenwood's remarkable Remote Control unit —a graphical user interface without having to use your TV!

Other advanced features include 5 S-Video inputs and an optical and coaxial digital outputs for digital dubbing to MiniDisc or CD-R. For a match made in "dual-room heaven," get the DPF-J9030, DPF-J9020 or DPF-J9010 changer.

D.R.I.V.E. circuit: This is a Kenwood original technology for reproducing signals with high resolution by instant switching of the internal filters according to the input signal. The KRF-X7775D incorporate a high performance DSP to provide very high resolution from a 32-bit DRIVE III circuit, achieving stereo audio reproduction with the best quality ever reached.

HDCD®: This is a new format of high-resolution recording. The KRF-X7775D is capable of reproducing CDs recorded in the HDCD format with high resolution and wide dynamic range.

Use it to connect all your current audio and video components—the KRF-X7775D has a variety of connection jacks so you can customize your entertainment setup.

It also includes Kenwood's remarkable LCD Remote Control unit.

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THX SURROUND EX™

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HDCD®, HDCD®, High Definition Compatible Digital® and Pacific Microsonics™ are either registered trademarks or trademarks of Pacific Microsonics, Inc. in the United States and/or other countries. HDCD system manufactured under license from Pacific Microsonics, Inc. This product is covered by one or more of the following: IN the USA: 5,479,168, 5,638,074, 5,640,161, 5,808,574, 5,838,274, 5,854,600, 5,864,311, 5,872,531, and in Australia: 669114. Other patents pending.

CHANNEL SPACE / DE-EMPHASIS Switch

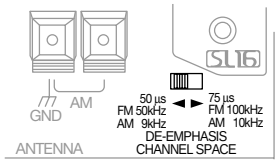
Not present for U.K. and Australia

The **CHANNEL SPACE/ DE-EMPHASIS** switch on the rear panel is set to the correct setting that prevails in the area to which the unit is shipped. However, if the **CHANNEL SPACE/ DE-EMPHASIS** setting is not matched to the area where the unit is to be used; for instance, if you move from area 1 to area 2 as shown in the table to the right or vice versa, desired reception of AM/ FM broadcasts is not expected. In this case, change the **CHANNEL SPACE/ DE-EMPHASIS** setting in accordance with the area corresponding to the table. The **CHANNEL SPACE/ DE-EMPHASIS** is switched over at the same time.

- When changing the setting of the **CHANNEL SPACE/ DE-EMPHASIS** switch, first unplug the power cord, and then reset the switch, plug the power cord back in, and turn the power switch on.

	Area	CHANNEL SPACE freq.	DE-EMPHASIS
1	USA, Canada, and South American Countries	FM : 100 kHz AM : 10 kHz	75 µs
2	Other Countries	FM : 50 kHz AM : 9 kHz	50 µs

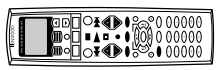
CHANNEL SPACE
DE-EMPHASIS switch



Unpacking

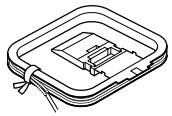
Unpack your new receiver carefully and make sure that all the accessories are present:

Remote Control unit



Batteries
AA (R6) × 4

AM Loop Antenna



FM Antenna

If any accessories are missing, or if the receiver is damaged or fails to operate, notify your dealer immediately. If your receiver was shipped to you directly, notify your shipper immediately. Kenwood recommends that you retain the original carton and packing materials in case you need to move or ship the receiver in the future.

Table of Contents

Chapter One: Connecting Your Devices

Welcome to the Kenwood KRF-X7775D Connection and Setup Guide. This chapter guides you through connecting your home entertainment devices to your new Kenwood audio-video receiver.

Once all your devices are connected, you can set up the Remote Control unit (see Chapter Two).

Refer to the following pages for details on connecting these devices:

All necessary cables should be provided with your home entertainment device (not with your new receiver). If you do not have the correct cables, you may purchase these cables from any home entertainment store.

To make coaxial digital connections, be sure to use a high-quality digital audio cable, not a standard audio cable.

Do not plug in the receiver or any other device to AC power until all connections have been made. Once all devices have been connected, you may plug them in and provide power.

Important:

Be sure to adhere followings. Or proper ventilation will be blocked causing damage or fire hazard.

Do not place any objects impairing heat radiation onto the top of unit.

Leave a space around the unit (from the largest outside dimension including projection) equal or greater than, shown below.

Top panel : 50 cm Side panel : 10 cm Back panel : 10 cm

Do not install your receiver where direct sunlight or high frequency fluorescent lighting can shine directly into the remote sensor. This can cause your new receiver to malfunction.

Do not install your receiver where direct sunlight or high frequency fluorescent lighting can shine directly into the remote sensor. This can cause your new receiver to malfunction.

Before You Begin

This manual covers the most common and standard connections to the receiver. Because of its versatility, you may decide to connect your devices differently.

Video Connections

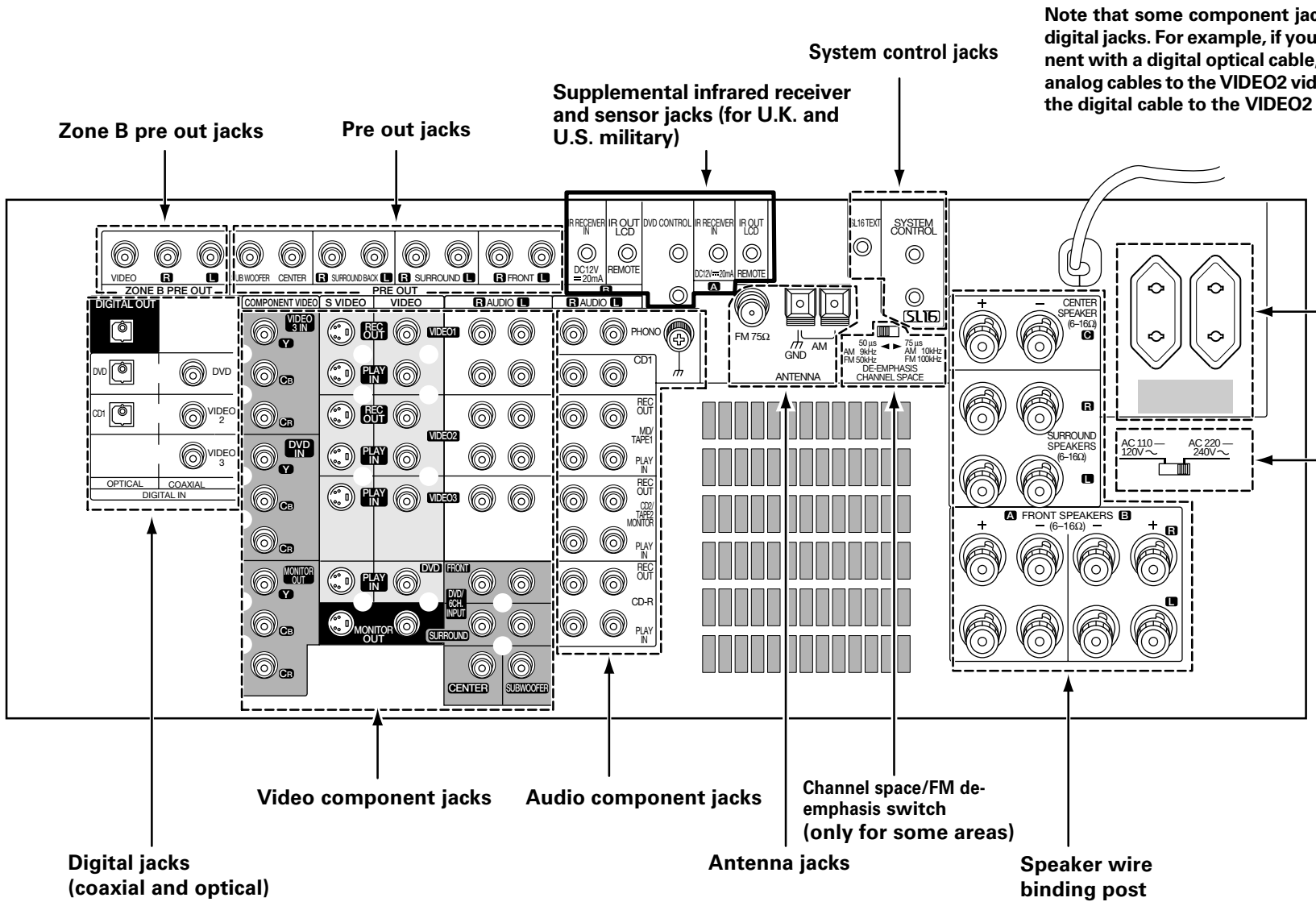
The **KRF-X7775D** has three kinds of video input jacks for the Composite video, S-Video and Component video signals.

The signals input at one of these three kinds of jacks can be output at the VIDEO REC OUT and MONITOR OUT jacks of the receiver only in the same signal format as they were input. (This receiver does not incorporate the facility for conversion between video signal formats.)

- If all of your video devices and TV have S-Video jacks, we suggest that you use them exclusively, since it will provide superior video performance.
- If only some of your video devices and TV have S-Video jacks, you can still use them for those devices and the TV. Use the composite jacks for your devices that don't have S-Video jacks. In this case you'll also have to connect the receiver's composite Video Monitor output to your TV for your non S-Video devices.
- If your TV doesn't have S-Video devices, you can't use S-Video connections for any of your video devices. Use the composite jacks exclusively.
- If your video devices and TV have component video jacks, we suggest that you use them exclusively, since it will provide superior S-video performance.
- Each of the video source components connected to the Composite video, S-Video and Component video inputs of the receiver should also be connected to the TV using the same kind of signal connection as it is connected to the receiver.
- It is not possible to record the video from a video source component that is connected to the receiver using only the Component video connection. The source to be recorded should be connected using the Composite video or S-Video connection according to the signal(s) output to the recording component.
- It is not possible to record the video from a video source component which is connected to the receiver using only the S-Video connection to a recording component equipped only with the Composite video input. In this case, both the video source and video recording components should be connected to the receiver using the Composite video connection.

If you plan on using the **KRF-X7775D** in a Dual-Zone application (see Chapter Four), you must use the composite video connections in addition to any component video and S-Video connections for all source components. Only video sources connected to the receiver with composite video connections can be viewed in the second zone.

The following diagram shows the entire back of the KRF-X7775D.



Noting Your Devices

Jack Set	Device	Manufacturer	Model #	Setup Code
PHONO				_____
CD1				
MD/TAPE1				
CD2/TAPE2 MONITOR				_____
CD-R				
MONITOR OUT (TV on Remote Control unit)				
VIDEO1				
VIDEO2				
VIDEO3				
DVD				

Use this table and the diagram on the preceding page to plan your connections before you make them, or use it to record your connections as you make them.

If you will be connecting a DVD player or other component with a digital output, please refer to the following chart before choosing a video jack set:

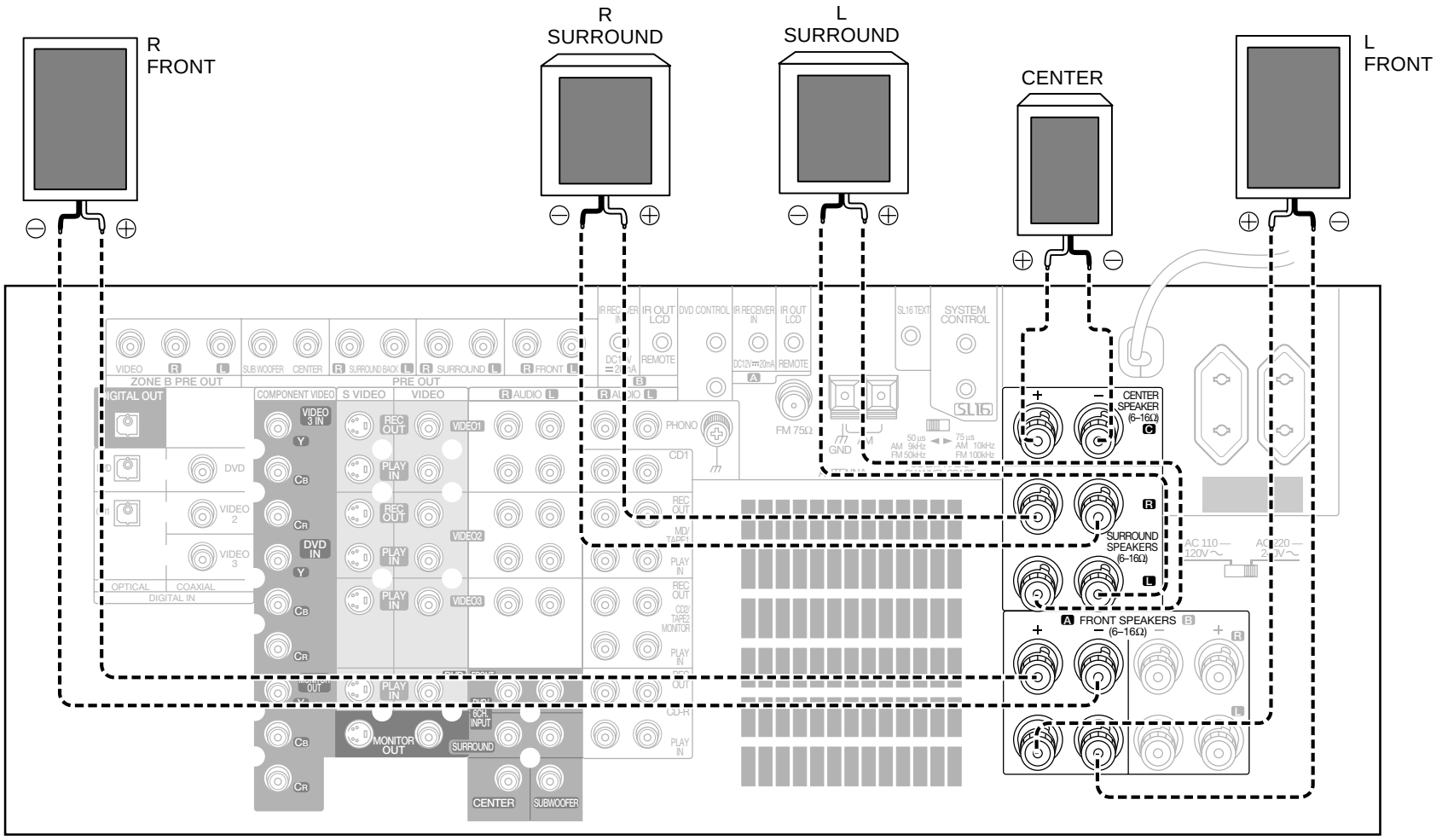
If your digital cable is...	Choose this jack set...
coaxial	DVD, VIDEO2 or 3
optical	DVD

You will need this information later, when you set up your Remote control unit (see "Identifying Components For remote control unit Control" on page 40). Recording this information now will save you additional trips behind your home entertainment cabinet. You will fill in the Setup Code column when you are setting up Remote control unit.

When playing Dolby Digital* or DTS-encoded software in multichannel configuration, the connected audio signal should be the digital signal.

* When playing a LaserDisc recorded in the Dolby Digital format, connect the AC-3 RF output to the receiver (See page 26).

Connecting Your Speakers



Connecting Your Speakers, continued

Do not plug in the receiver to AC power until all connections have been made.

To Connect Front Speakers Only:

If you only intend to listen to stereo sound (as opposed to surround sound), you may simply connect a single pair of speakers. To do so:

Using Banana Plugs (except for U.K.):

1. Tighten the speaker wire binding posts. If you do not tighten the posts, they will not conduct sound properly to the speakers.
2. Insert the plug from the positive jack on the **RIGHT FRONT** speaker into the pin jack on the positive **RIGHT FRONT** post. Repeat for the negative plug.
3. Repeat step 2 for the positive and negative wires on the **LEFT FRONT** speaker.

Using Bare Wires:

1. Loosen the speaker wire binding posts.
2. Insert the wire from the positive jack on the **RIGHT FRONT** speaker into the U-shaped slot in the base of the positive **RIGHT FRONT** post. Lay the wire to the right of the post; that way, when you tighten the binding post, it will naturally twist the wire into the best connection. Tighten the post. Repeat for the negative wire on the **RIGHT FRONT** speaker as shown to the right.
3. Repeat step 2 for the positive and negative wires on the **LEFT FRONT** speaker.

To Connect Front and Surround Sound Speakers:

To listen to the full surround sound that this receiver can put out, connect front speakers, center, left surround, and right surround speakers. To do so:

To reproduce more enriched bass, connect a subwoofer incorporating a power amplifier.

For the connections of the subwoofer and surround back speakers, see page 6 - 7.

Using Banana Plugs (except for U.K.):

1. Tighten the speaker wire binding posts. If you do not tighten the posts, they will not conduct sound properly to the speakers.
2. Follow the steps under "To Connect Front Speakers Only" on this page to connect the **RIGHT** and **LEFT FRONT** speakers.
3. Insert the plug from the positive jack on the **CENTER** speaker into the pin jack on the positive **CENTER** post. Repeat for the negative plug.
4. Insert the plug from the positive jack on the **RIGHT SURROUND** speaker into the pin jack on the positive **RIGHT SURROUND** post. Repeat for the negative plug.
5. Repeat step 4 for the positive and negative wires on the **LEFT SURROUND** speaker.

Using Bare Wires:

1. Loosen the speaker wire binding posts.
2. Follow the steps under "To Connect Front Speakers Only" on this page to connect the **RIGHT** and **LEFT FRONT** speakers.
3. Insert the wire from the positive jack on the **CENTER** speaker into the U-shaped slot in the base of the positive **CENTER** post, as shown to the right.

   Tighten the post. Repeat for the negative wire.
4. Insert the wire from the positive jack on the **RIGHT SURROUND** speaker into the U-shaped slot on the base of the positive **RIGHT SURROUND** post. Tighten the post. Repeat for the negative wire.
5. Repeat step 4 for the positive and negative wires on the **LEFT SURROUND** speaker.

Never short circuit the + and - speaker wires.

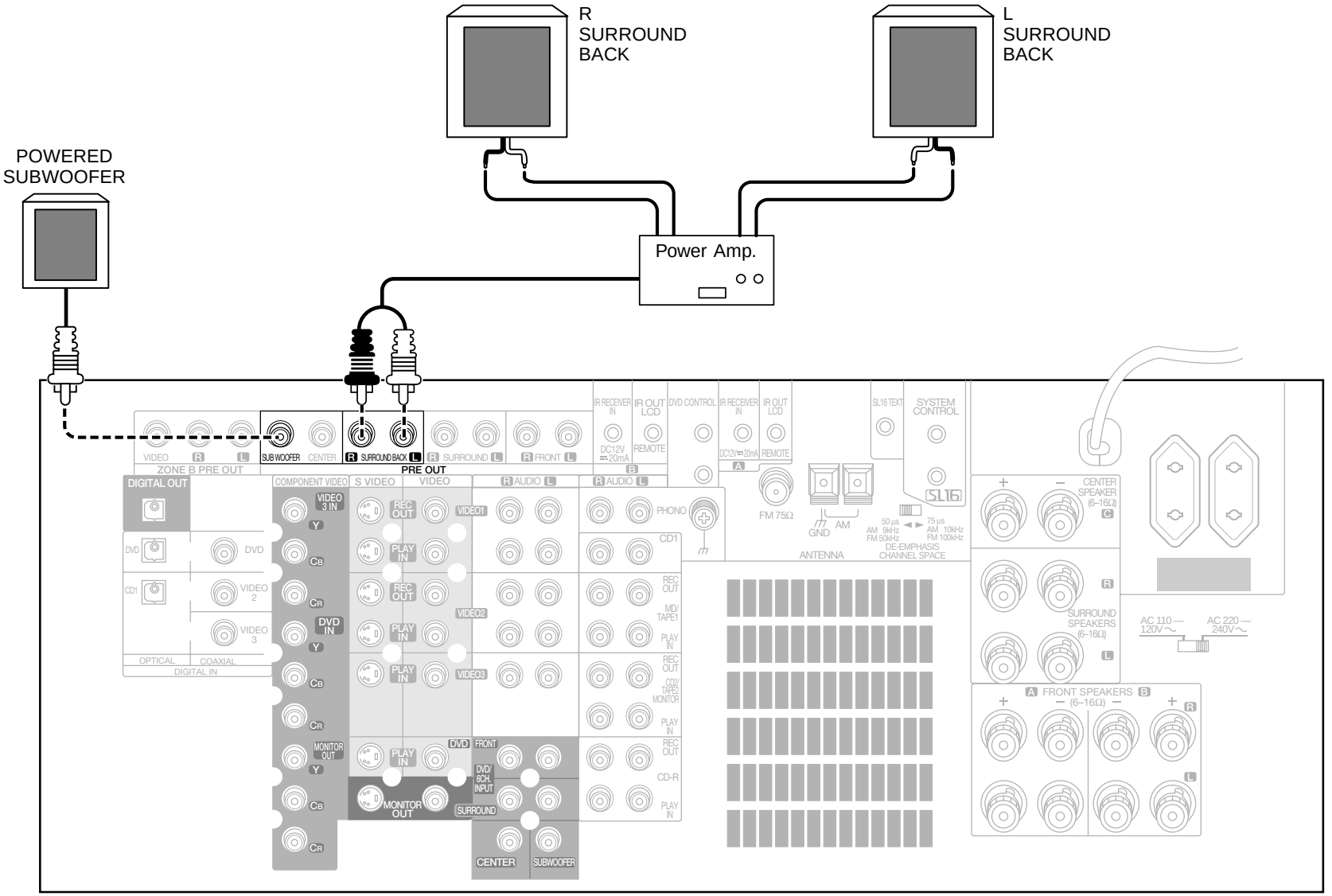
Do not switch the left and right speaker wires or swap the + and - wires on the binding posts.

The speakers must have a nominal impedance of between 6Ω and 16Ω.

Using Bare Wires

1. Loosen post
2. Insert wire
3. Tighten post

Connecting Your Speakers, continued



Connecting Your Speakers, continued

Do not plug in the amplifiers or the receiver to AC power until all connections have been made.

What if I Have a Powered Subwoofer?

Simply connect the subwoofer's audio cable to the receiver's **SUBWOOFER PRE OUT** jack as shown to the left.

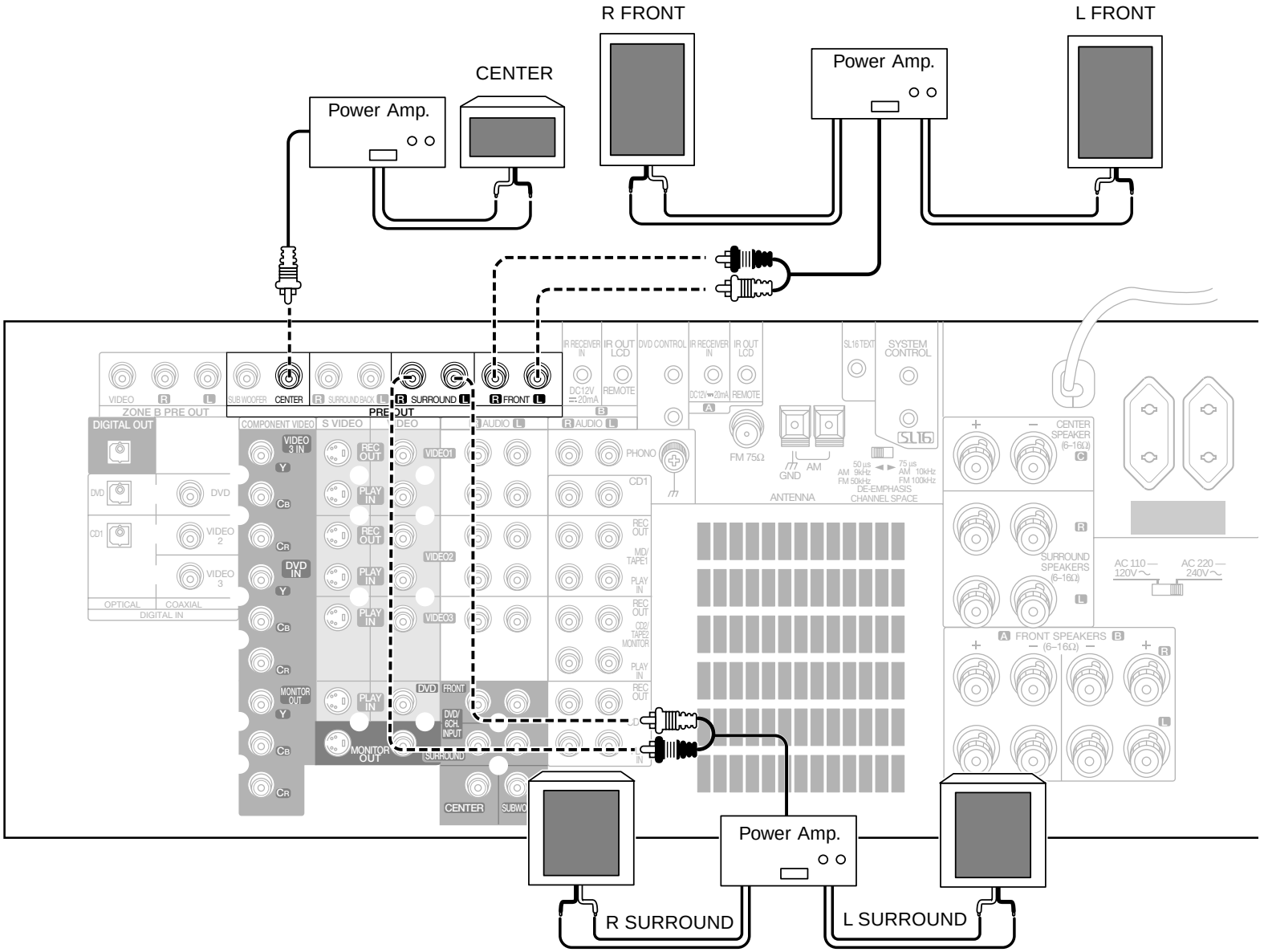
To Connect Surround Back Speakers:

To reproduce the surround back channels by Dolby Digital Surround EX, DTS-ES or DTS-NEO:6, add a commercially marketed 2-channel power amplifier and connect the surround back speakers to it.

To connect supplemental power amplifiers and surround back speakers:

1. Using RCA audio cables (not supplied), connect the receiver's **SURROUND BACK PRE OUT** jacks to the amplifiers' input jacks as shown to the left.
2. Connect the speakers to the power amplifiers according to the amplifiers' instruction manuals.

What if I Have an Amplifier?



What if I Have an Amplifier?, continued

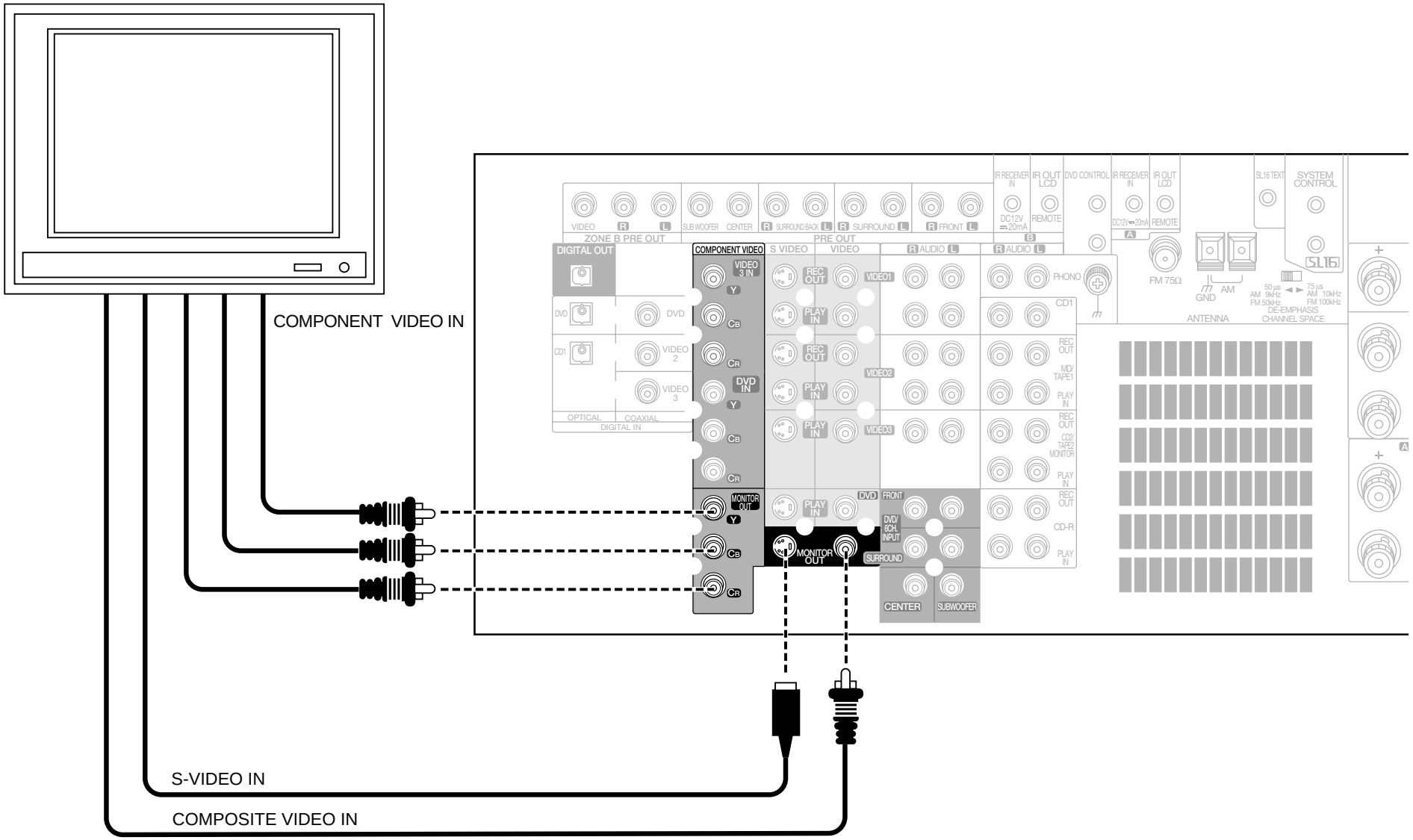
You can use supplemental power amplifiers for any of the channels instead of the receiver's built-in amplifiers.

Do not plug in the amplifiers or the receiver to AC power until all connections have been made.

To connect supplemental power amplifiers:

1. Using RCA audio cables (not supplied), connect the receiver's **PRE OUT** jacks to the amplifiers' input jacks as shown to the left.
2. Connect the speakers to the power amplifiers according to the amplifiers' instruction manuals.

Connecting Your TV



Connecting Your TV, continued

Do not plug in the receiver or devices to AC power until you have connected all your devices.

This section focuses on the connections from your TV to the KRF-X7775D. Please refer to your TV's instructions for more detail about its connection jacks and capabilities.

The instructions in this section show how to connect your TV as a monitor for the other video devices you connect (without using it as an audio/video source device itself). To use your TV as an audio/video source device, you must first connect it as described in this section, and also connect its audio/video output jacks as if they were cable TV tuner outputs, as described in "To Connect a Cable TV Tuner with a Composite (RCA) Video Output" on page 13.

To Connect a TV:

1. Review the information under "Before You Begin" on page 1. It contains important notes about the types of video connections you can make.
2. Connect a video cable from your TV's Video IN jack to the receiver's **MONITOR OUT** jack as shown to the left.
3. If your TV has the **COMPONENT VIDEO** jacks, you can also connect it as shown on the left.
4. If your TV does not have any video input connections, you must purchase an RF modulator. The modulator will convert the video signal from the receiver to an RF signal that will work with the TV's antenna connections.

   Connect the receiver to the TV according to the RF modulator's instruction manual.
5. Go to "Noting Your Devices" on page 3 and note which jack you used to connect your TV. In addition, note the brand name and model number of the TV.

If you previously connected your TV directly to your VCR, you must now connect it through your new receiver.

With some devices, the **COMPONENT VIDEO** jacks (Y, PB/CB, PR/CR jacks) are indicated as the R-Y, B-Y jacks. For details, refer to the operation instructions for the respective device.

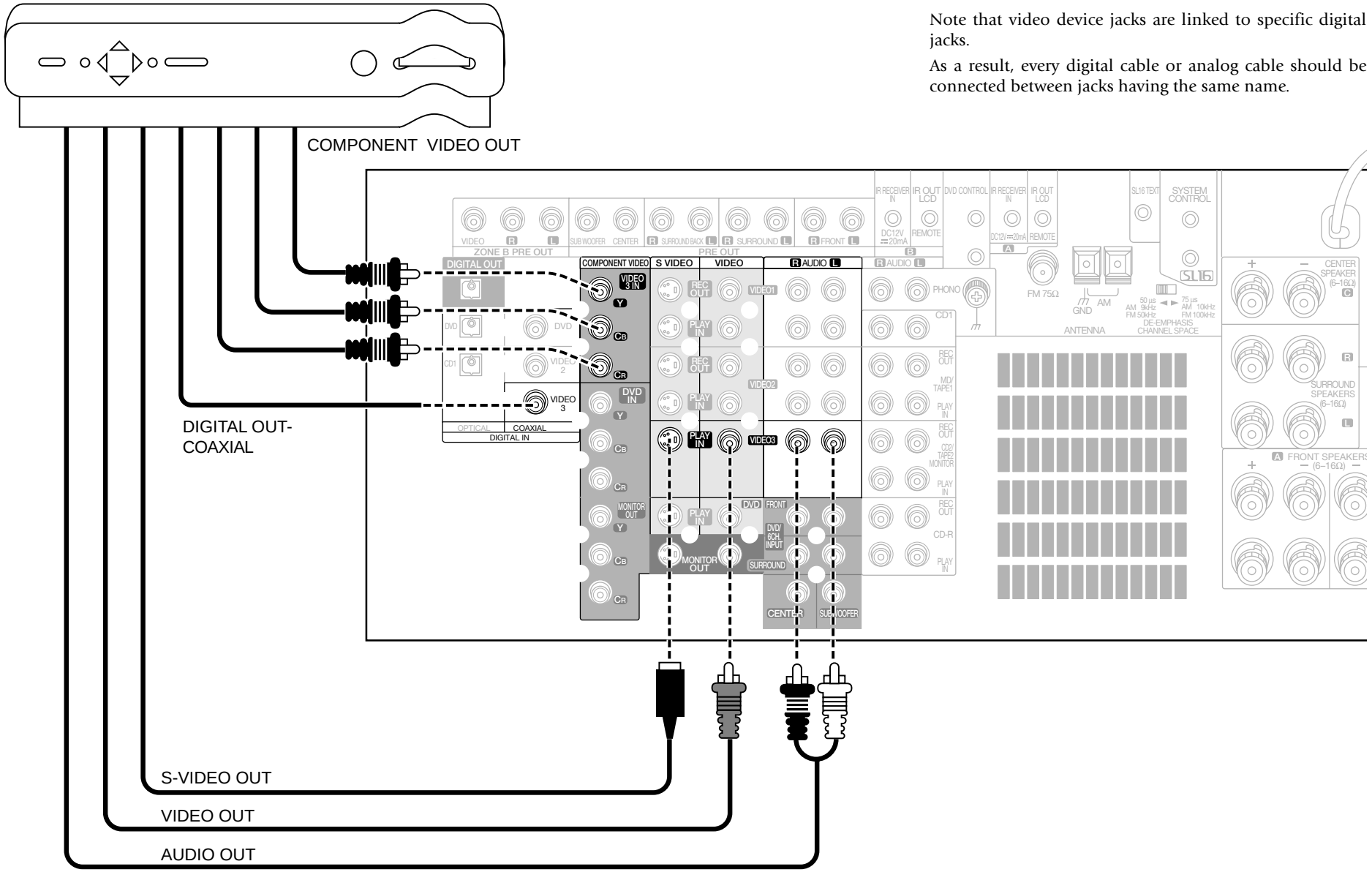
What if I Want to Watch TV without Turning on the Receiver?

The connection described here sets your TV up as a monitor you can use to view media played on your other video devices (such as a VCR or DVD player). You can still watch TV without having to use the receiver.

Connecting Your Cable TV or Satellite Tuner

Note that video device jacks are linked to specific digital jacks.

As a result, every digital cable or analog cable should be connected between jacks having the same name.



Connecting Your Cable TV or Satellite Tuner, continued

Do not plug in the receiver or devices to AC power until you have connected all your devices.

This section focuses on the connections from your cable or satellite tuner to the KRF-X7775D. Please refer to your tuner's instructions for more detail about its connection jacks and capabilities.

The instructions in this section show one of several possible variations on connecting your tuner. For further assistance on optional configurations, contact your cable or satellite provider.

The VR-5080 is not equipped with VIDEO4 jacks.

To Connect a Cable TV Tuner with a Composite (RCA) Video Output:

1. Review the information under "Before You Begin" on page 1. It contains important notes about the types of video connections you can make.
2. Connect the audio and video cables from the cable tuner's Audio and Video OUT jacks to the receiver's **VIDEO2** or **VIDEO3 PLAY IN** jacks as shown to the left.

   When the component video cables are connected, the audio and video cables of the cable TV tuner should be connected to the **VIDEO3** jacks of the receiver.
3. If your cable TV tuner and TV have the COMPONENT VIDEO jacks, you can also connect them as shown on the left.
4. Go to "Noting Your Devices" on page 3 and note which jack you used to connect your tuner. In addition, note the brand name and model number of the tuner.

To Connect a Cable TV Tuner without a Composite (RCA) Video Output:

1. Connect the audio cables from the cable tuner's Audio Out jacks to the receiver's **VIDEO2** or **VIDEO3 PLAY IN** jacks as shown to the left.
2. Leave the cable tuner's video out (RF jack) connected directly to your VCR or TV (wherever you already have it connected).
3. Go to "Noting Your Devices" on page 3 and note which jack you used to connect your tuner. In addition, note the brand name and model number of the tuner.

To Connect a Satellite Tuner:

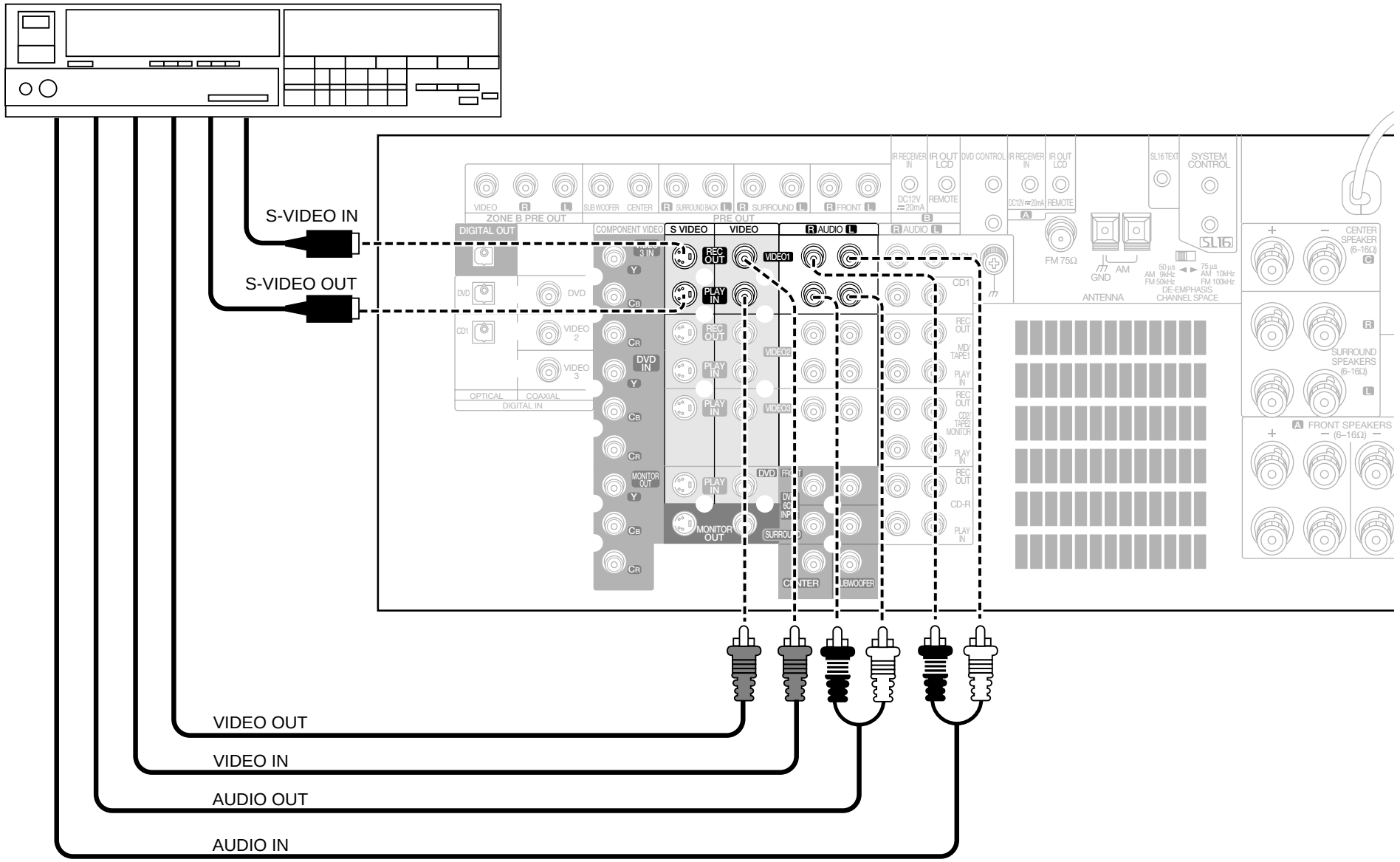
1. Review the information under "Before You Begin" on page 1. It contains important notes about the types of video connections you can make.
2. If your satellite tuner has a digital output jack, connect a digital cable between the satellite tuner's digital output jack and the receiver's **VIDEO2** or **VIDEO3** digital input jack as shown in the figure on the left.
3. Connect the audio and video cables from the satellite tuner's Audio and Video out jacks to the receiver's **VIDEO2** or **VIDEO3 PLAY IN** jacks as shown to the left.

   Note that the jack sets are linked, even though they are not adjacent. You **must** connect all of the cables from your satellite receiver to a linked jack set. For example, if you connect the analog cables to **VIDEO2** and the digital optical cable to **VIDEO3**, your satellite receiver will not work correctly.

   When the component video cables are connected, the audio and video cables of the satellite tuner should be connected to the **VIDEO3** jacks of the receiver.
4. If your satellite tuner and TV have the COMPONENT VIDEO jacks, you can also connect them as shown on the left.
5. Go to "Noting Your Devices" on page 3 and note which jack you used to connect your tuner. In addition, note the brand name and model number of the tuner.

When playing Dolby Digital or DTS-encoded software in multichannel configuration, the connected audio signal should be the digital signal.

Connecting Your VCR(s)



Connecting Your VCR(s), continued

Do not plug in the receiver to AC power until you have connected all your devices.

This section focuses on the connections from your VCR to the KRF-X7775D. Please refer to your VCR's instructions for more detail about its connection jacks and capabilities.

The instructions in this section show one of several possible variations on connecting your VCR. For further assistance on optional configurations, contact the store where you purchased your receiver.

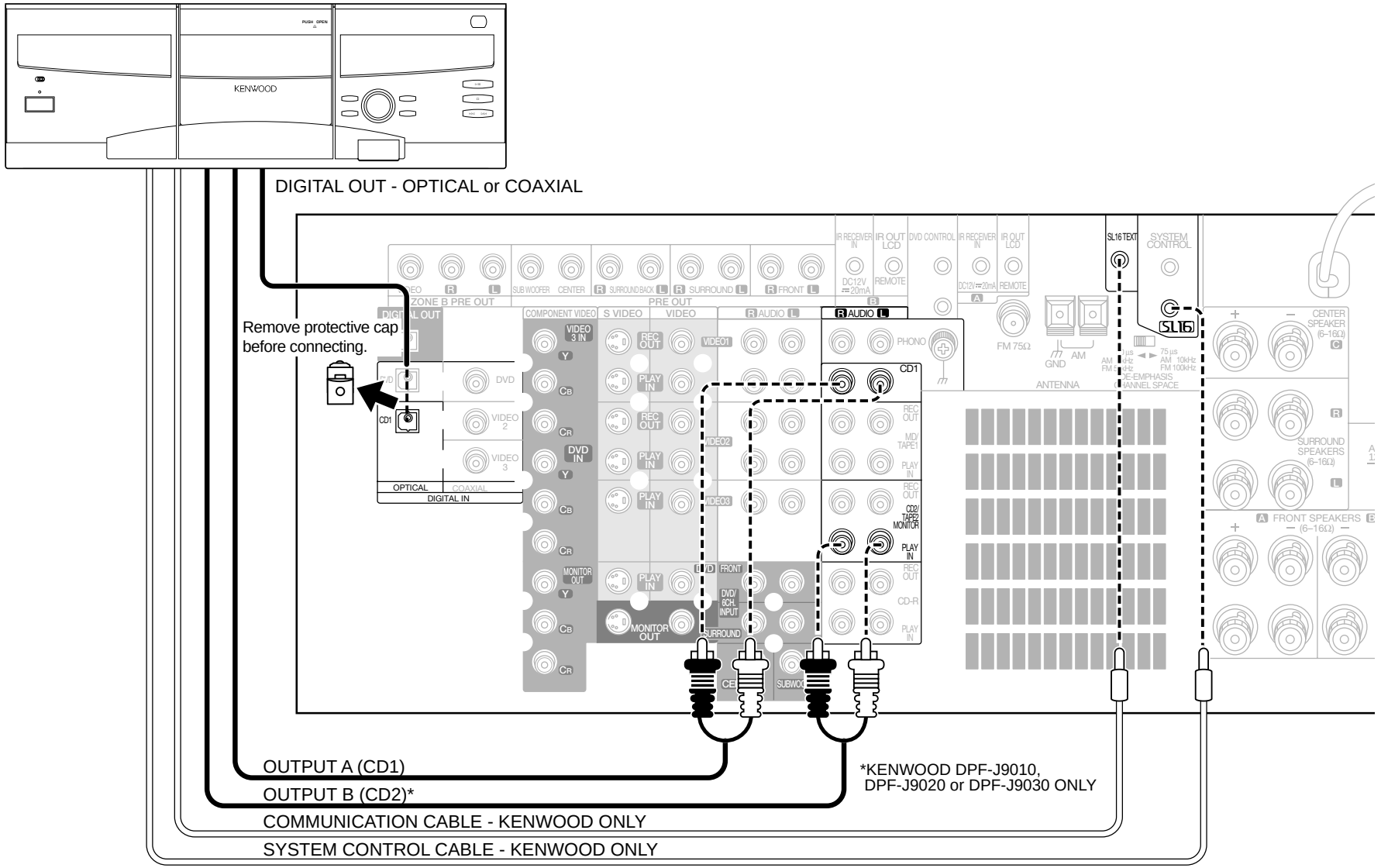
To Connect a Primary VCR:

1. Review the information under "Before You Begin" on page 1. It contains important notes about the types of video connections you can make.
2. Connect the audio and video cables from the VCR's Audio and Video jacks to the receiver's **VIDEO1 REC OUT** and **PLAY IN** jacks as shown to the left.
3. Be sure to connect the VCR VIDEO IN cable to the jack labeled REC OUT and the VIDEO OUT cable to the jack labeled PLAY IN.
4. Go to "Noting Your Devices" on page 3 and note which jack you used to connect your VCR. In addition, note the brand name and model number of the VCR.

To Connect a Secondary VCR:

1. Review the information under "Before You Begin" on page 1. It contains important notes about the types of video connections you can make.
2. Connect the audio and video cables from the VCR's Audio and Video jacks to the receiver's **VIDEO2** jacks.
3. Go to "Noting Your Devices" on page 3 and note which jack you used to connect your VCR. In addition, note the brand name and model number of the VCR.

Connecting Your Primary CD Player



Connecting Your Primary CD Player, continued

Do not plug in the receiver to AC power until you have connected all your devices.

This section focuses on the connections from your 200-Disc CD Changer to the KRF-X7775D. Please refer to your changer's instructions for more detail about its connection jacks and capabilities.

Each set of instructions in this section shows one of several possible variations on connecting your CD player(s). For further assistance on optional configurations, contact the store where you purchased your CD player(s).

The illustration shows a Kenwood 200-Disc CD Changer. Your CD player may look different.

The Kenwood DPF-J9030, DPF-J9020 and DPF-J9010 200-Disc Changers contain two CD transports. You must connect these devices as though they were two CD players.

What if I Have a Video CD-Compatible CD Player?

Connect the audio and video cables from the CD player to any unused Video jack set.

Do not connect the system control cable in this instance.

To Connect a Kenwood 200-Disc CD Changer:

1. Connect one set of audio cables from the 200-Disc Changer to the receiver's CD1 jacks. If you have a DPF-J9030, DPF-J9020 or DPF-J9010, connect Output A to the receiver's **CD1** jacks and Output B to the receiver's **CD2/TAPE2 MONITOR PLAY IN** jacks as shown to the left.
2. Connect the digital cable from the changer to the receiver's **CD1** digital jack as shown to the left.
3. Connect the system control cable from the changer to the **SYSTEM CONTROL** jack as shown to the left.

   Be sure that the SL16/XS8 switch on the changer is set to SL16.

   If you are connecting more than one Kenwood device with a system control cable, see "What if I Have Several Kenwood Devices (System Control Chaining)?" on page 32 for more information.
4. Connect the SL16 text cable (communication cable) from the changer to the receiver's **SL16 TEXT** jack as shown to the left.
5. Go to "Noting Your Devices" on page 3 and note which jacks you used to connect your CD changer. In addition, note the brand name and model number of the CD Changer.

To Connect Any Other Primary CD Player or Changer:

1. Connect the audio cables from the CD player's audio jacks to the receiver's **CD1** jack set as shown to the left.
2. Connect the digital cable from the CD player's digital jack to the receiver's **CD1** digital jack as shown to the left.
3. If you are connecting a Kenwood CD Player with system control, connect the SYSTEM CONTROL cable from the CD player to the system control jack as shown to the left.

   Be sure that the SL16/XS8 switch on the player/changer is set to SL16.

   If you are connecting more than one Kenwood device with a system control cable, see "What if I Have Several Kenwood Devices (System Control Chaining)?" on page 32 for more information.
4. Go to "Noting Your Devices" on page 3 and note which jacks you used to connect your CD player/changer. In addition, note the brand name and model number of the CD player or changer.

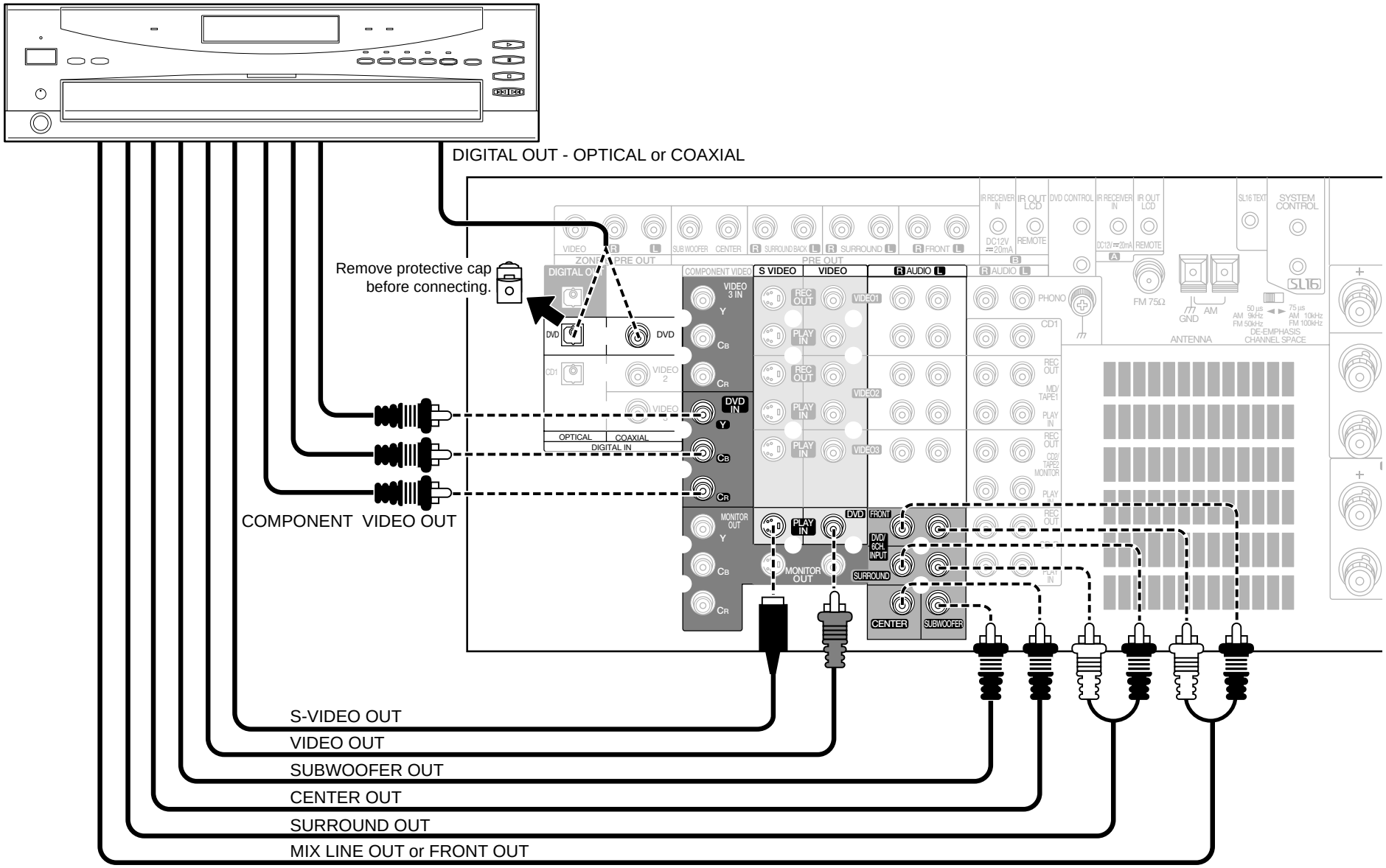
To Connect a Secondary CD Player:

See "Connecting Your Secondary CD Player or Tape Deck" on page 24.

Do not connect the system control cable in this instance.

When playing a HDCD disc in the HDCD format (high quality mode), use the digital connection jack.

Connecting Your DVD Player



Connecting Your DVD Player, continued

Do not plug in the receiver to AC power until you have connected all your devices.

This section focuses on the connections from your DVD player to the KRF-X7775D. Please refer to your DVD player's instructions for more detail about its connection jacks and capabilities.

The instructions in this section show one of several possible variations on connecting your DVD player. For further assistance on optional configurations, contact the store where you purchased your receiver.

To Connect a DVD Player:

1. Review the information under "Before You Begin" on page 1. It contains important notes about the types of video connections you can make.
2. Connect the video cables from the DVD's Video jacks to the receiver's **DVD PLAY IN** jacks as shown to the left.

   If your DVD and TV have the COMPONENT VIDEO jacks, you can also connect them as shown on the left.
3. Connect the audio cables from the DVD's audio jacks (AUDIO OUT, FRONT or MIX LINE OUT) to the receiver's **FRONT** jacks of **DVD/6CH. INPUT**.

   When the DVD player provides the DVD 6ch (DVD 5.1 ch) outputs, connect them to the **FRONT**, **SURROUND**, **CENTER** and **SUBWOOFER** input jacks. (optional)
4. Connect the digital cable (either optical or coaxial) from the DVD's digital jack to the appropriate digital jack on the receiver as shown to the left.

   The illustration shows two digital connections, one for coaxial connection and one for optical connection. Your DVD player supports one or the other of these connection methods—**do not** connect both.

   If you use the optical digital cable, be sure to remove the protective cover from the optical jack before connecting.
5. Go to "Noting Your Devices" on page 3 and note which jacks you used to connect your DVD player. In addition, note the brand name and model number of the DVD player.

When playing Dolby Digital or DTS-encoded software in multichannel configuration, the connected audio signal should be the digital signal.

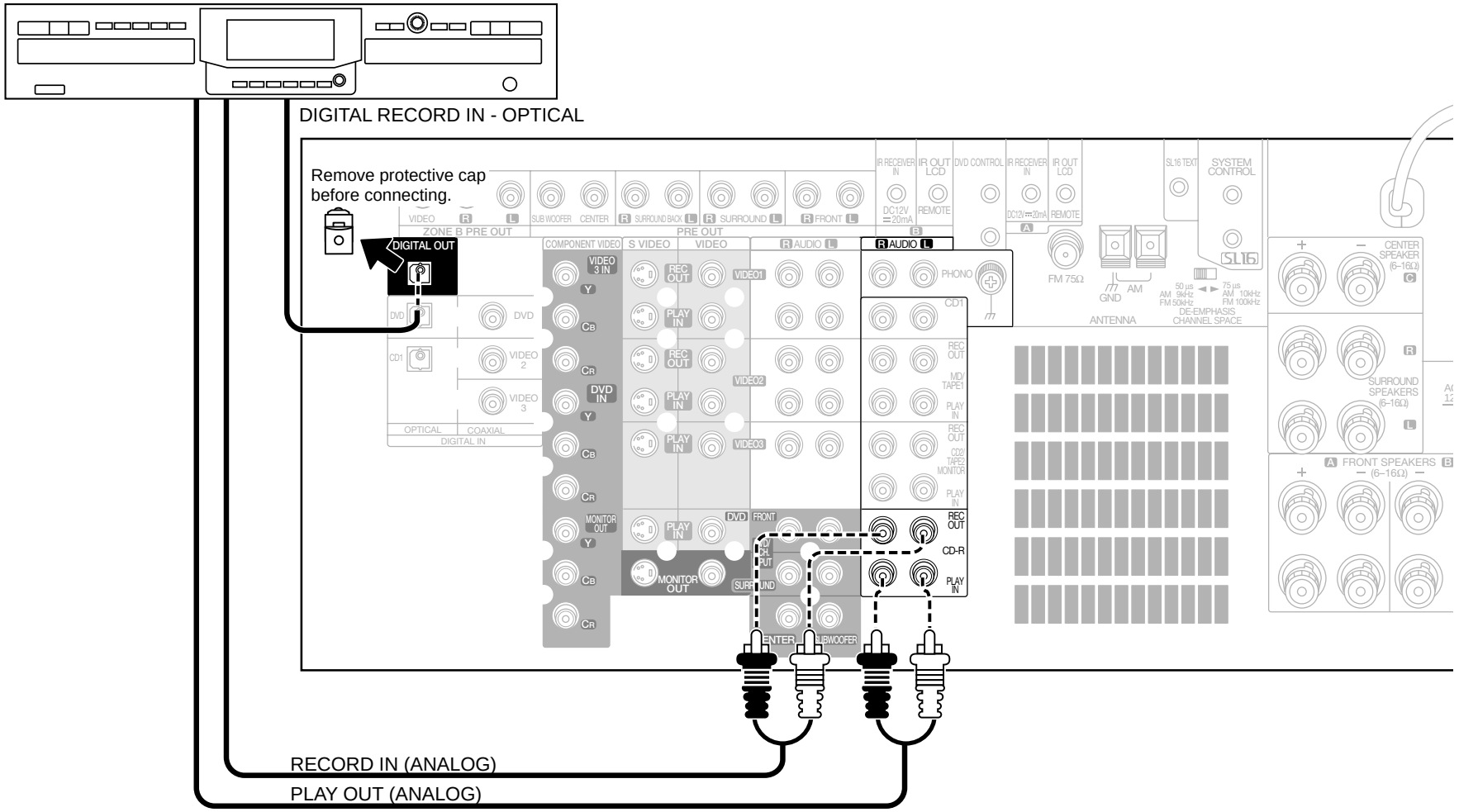
The digital inputs of the KRF-X9995D are not compatible with an audio signal with 192 kHz sampling frequency or 96 kHz multichannel audio signal. These signals should be input to the analog or **DVD/6CH. INPUT** jacks.

DTS disclaimer clause

DTS Digital Surround™ is a discrete 5.1 channel digital audio format available on CD, LD, and DVD software which consequently cannot be decoded and played back inside most CD, LD, or DVD players. For this reason, when DTS-encoded software is played back through the analog outputs of the CD, LD, or DVD player, excessive noise will be exhibited. To avoid possible damage to the audio system, proper precautions should taken by the consumer if the analog outputs are connected directly to an amplification system. To enjoy DTS Digital Surround™ playback, an external 5.1 channel DTS Digital Surround™ decoder system must be connected to the digital output (S/PDIF, AES/EBU, or TosLink) of the CD, LD or DVD player.

This unit is equipped with DTS Digital Surround™ decoder.

Connecting Your CD-R Recorder



Connecting Your CD-R Recorder, continued

Do not plug in the receiver to AC power until you have connected all your devices.

This section focuses on the connections from your CD-R recorder to the KRF-X7775D. Please refer to your CD-R recorder instructions for more detail about its connection jacks and capabilities.

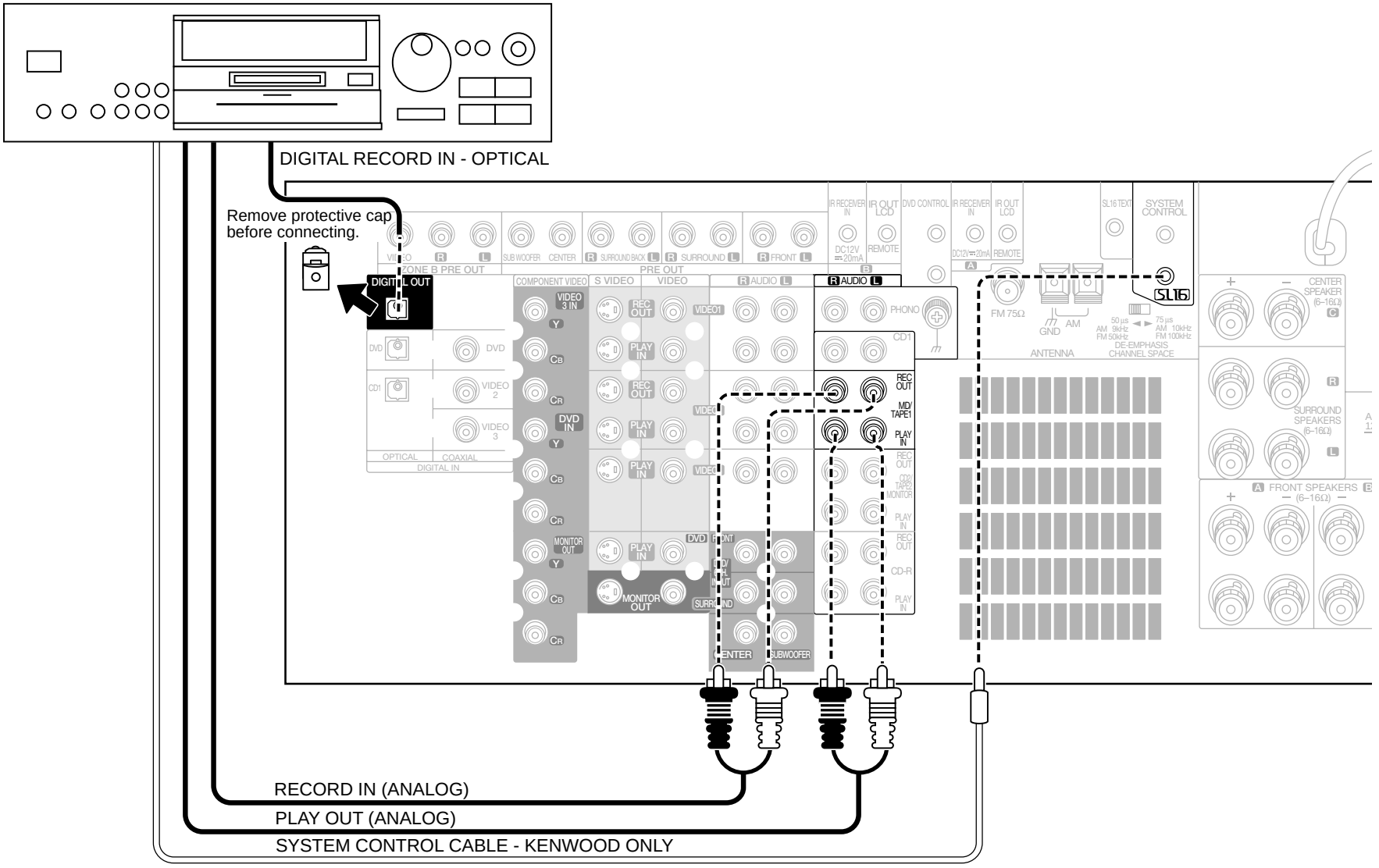
Each set of instructions in this section shows one of several possible variations on connecting your CD-R recorder. For further assistance on optional configurations, contact the store where you purchased your CD-R recorder.

To Connect a CD-R Recorder:

1. Connect the audio cable from the CD-R recorder's Play OUT jacks to the receiver's **CD-R PLAY IN** jacks as shown to the left.
2. Connect the audio cable from the CD-R recorder's Rec IN jacks to the receiver's **CD-R REC OUT** jacks, as shown to the left.
3. Connect the digital cable from the CD-R's digital jack to the appropriate digital jack on the receiver as shown to the left.

   You only need to connect to the digital output jack if you will be recording from sources that are connected to a digital input jack, such as a CD or DVD player.
4. Go to "Noting Your Devices" on page 3 and note which jacks you used to connect your CD-R recorder. In addition, note the brand name and model number of the CD-R recorder.

Connecting Your MD Recorder or Primary Tape Deck



Connecting Your MD Recorder or Primary Tape Deck, continued

Do not plug in the receiver to AC power until you have connected all your devices.

This section focuses on the connections from your MD recorder or tape deck to the KRF-X7775D. Please refer to your MD recorder or tape deck's instructions for more detail about its connection jacks and capabilities.

Each set of instructions in this section shows one of several possible variations on connecting your MD recorder or tape deck. For further assistance on optional configurations, contact the store where you purchased your MD recorder or tape deck.

To Connect an MD Recorder:

1. Connect the audio cable from the MD recorder's Play OUT jacks to the receiver's **MD/TAPE1 PLAY IN** jacks as shown to the left.
2. Connect the audio cable from the MD recorder's Rec IN jacks to the receiver's **MD/TAPE1 REC OUT** jacks, as shown to the left.
3. Connect the digital cable from the MD's digital jack to the appropriate digital jack on the receiver as shown to the left.

   You only need to connect to the digital output jack if you will be recording from sources that are connected to a digital input jack, such as a CD or DVD player.
4. If you are connecting a Kenwood MD recorder, connect the system control cable from the MD recorder to the receiver.

   If you are connecting more than one Kenwood device with a system control cable, see "What if I Have Several Kenwood Devices (System Control Chaining)?" on page 32.
5. Go to "Noting Your Devices" on page 3 and note which jacks you used to connect your MD recorder. In addition, note the brand name and model number of the MD recorder.

To Connect a Primary Tape Deck:

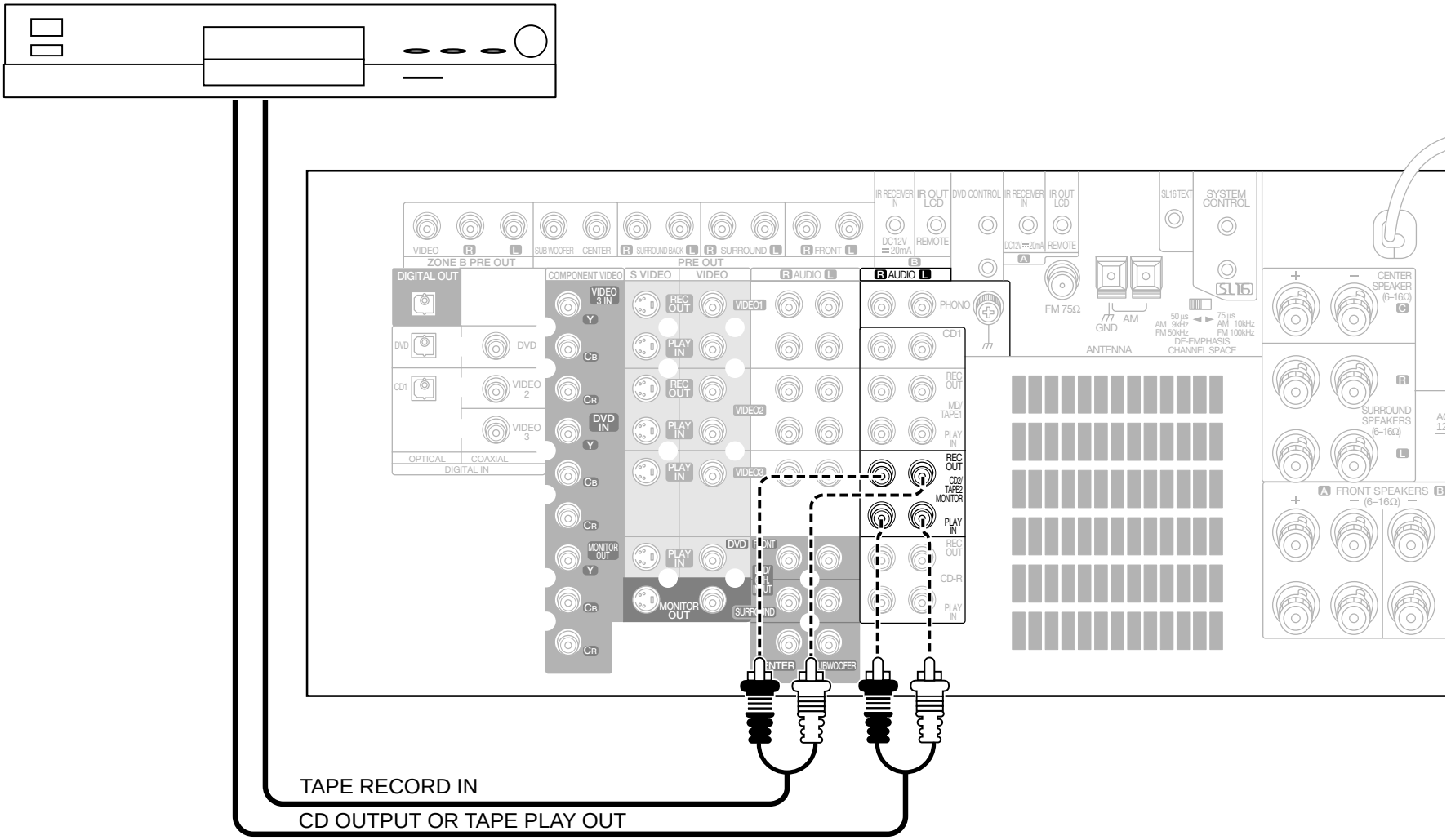
1. Connect the audio cable from the tape deck's Play OUT jacks to the receiver's **MD/TAPE1 PLAY IN** jacks as shown to the left.
2. Connect the audio cable from the tape deck's Rec IN jacks to the receiver's **MD/TAPE1 REC OUT** jacks as shown to the left.
3. If you are connecting a Kenwood tape deck with system control, connect the system control cable from the tape deck to the receiver. Be sure that the SL16/XS8 switch on the tape deck is set to SL16.

   If you are connecting more than one Kenwood device with a system control cable, see "What if I Have Several Kenwood Devices (System Control Chaining)?" on page 32.
4. Go to "Noting Your Devices" on page 3 and note which jacks you used to connect your tape deck. In addition, note the brand name and model number of the tape deck.

To Connect a Secondary Tape Deck:

See "Connecting Your Secondary CD Player or Tape Deck" on page 24.

Connecting Your Secondary CD Player or Tape Deck



Connecting Your Secondary CD Player or Tape Deck, continued

Do not plug in the receiver to AC power until you have connected all your devices.

This section focuses on the connections from your CD player or tape deck to the KRF-X7775D. Please refer to your CD player or tape deck's instructions for more detail about its connection jacks and capabilities.

Each set of instructions in this section shows one of several possible variations on connecting your CD player or tape deck. For further assistance on optional configurations, contact the store where you purchased your CD player or tape deck.

Do not connect a system control cable from any unit connected via the **CD2/TAPE2 MONITOR** jacks.

To Connect a Secondary CD Player:

1. Connect the audio cables from the CD player's audio jacks to the receiver's **CD2/TAPE2 MONITOR PLAY IN** jack set as shown to the left.

   Do not connect the system control cable from the second CD player, even if it supports system control.
2. Go to "Noting Your Devices" on page 3 and note which jacks you used to connect your CD player. In addition, note the brand name and model number of the CD player.

If you connect a second tape deck, you cannot connect a second CD player.

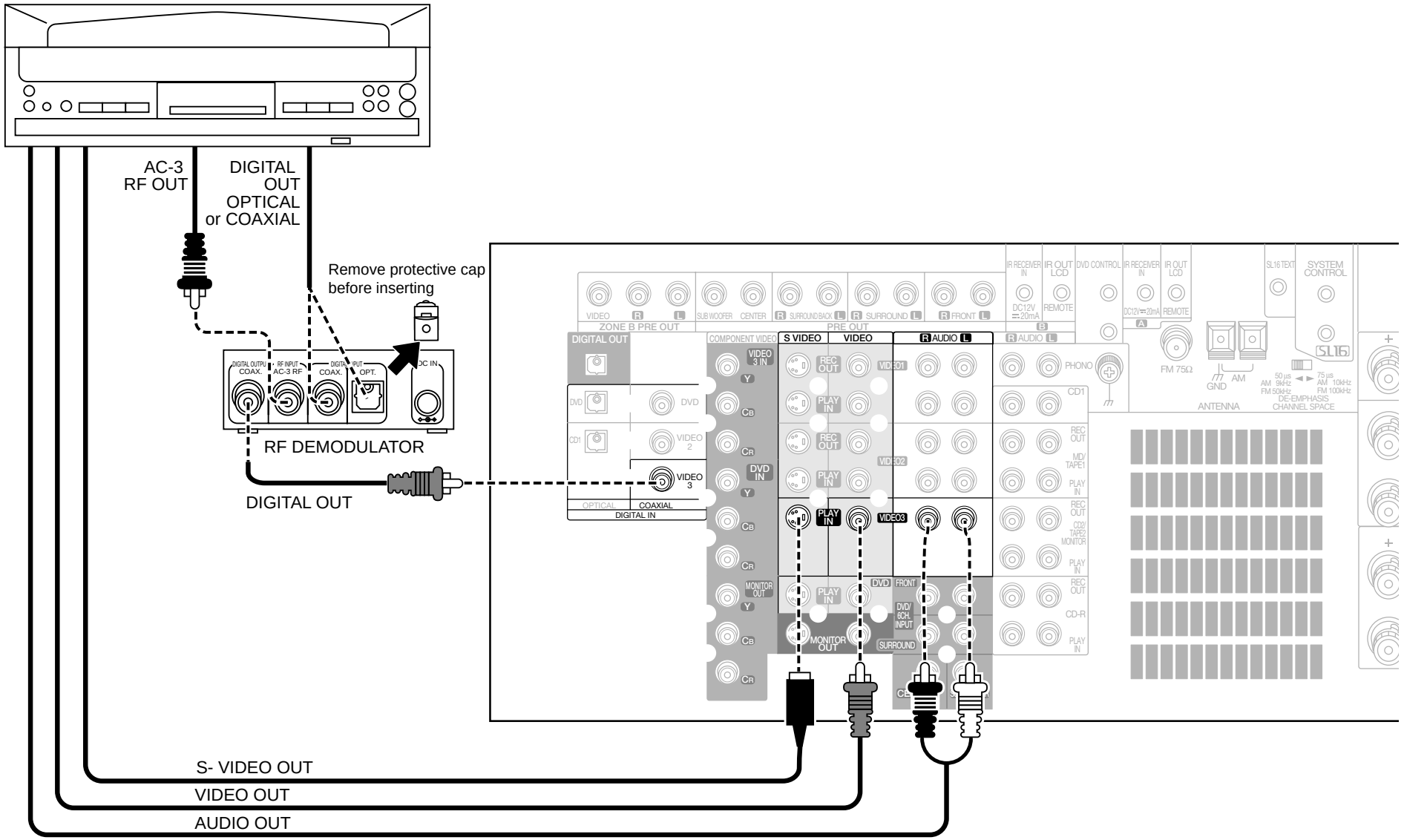
To Connect a Secondary Tape Deck:

1. Connect the audio cable from the tape deck's Play OUT jacks to the receiver's **CD2/TAPE2 MONITOR PLAY IN** jacks.
2. Connect the audio cable from the tape deck's Rec IN jacks to the receiver's **CD2/TAPE2 MONITOR REC OUT** jacks.

   Do not connect the system control cable from the second tape deck, even if it supports system control.
3. Go to "Noting Your Devices" on page 3 and note which jacks you used to connect your tape deck. In addition, note the brand name and model number of the tape deck.

If you connect a second CD player, you cannot connect a second tape deck.

Connecting Your Laser Disc Player (with AC-3 RF Output)



Connecting Your Laser Disc Player (with AC-3 RF Output), continued

Do not plug in the receiver to AC power until you have connected all your devices.

You must purchase an RF Demodulator (DEM-9991D) if you plan to operate a player with a Dolby Digital (AC-3) RF output with this receiver.

These instructions describe how to connect a laser disc player with an AC-3 RF output. If your laser disc player does not have an AC-3 RF output, see "Connecting Your Laser Disc Player (without AC-3 RF Output)" on page 28. Please refer to your laser disc player's instructions for more detail about its connection jacks and capabilities.

The instructions in this section show one of several possible variations on connecting your laser disc player. For further assistance on optional configurations, contact the store where you purchased your receiver.

To Connect an AC-3 RF Output Laser Disc Player:

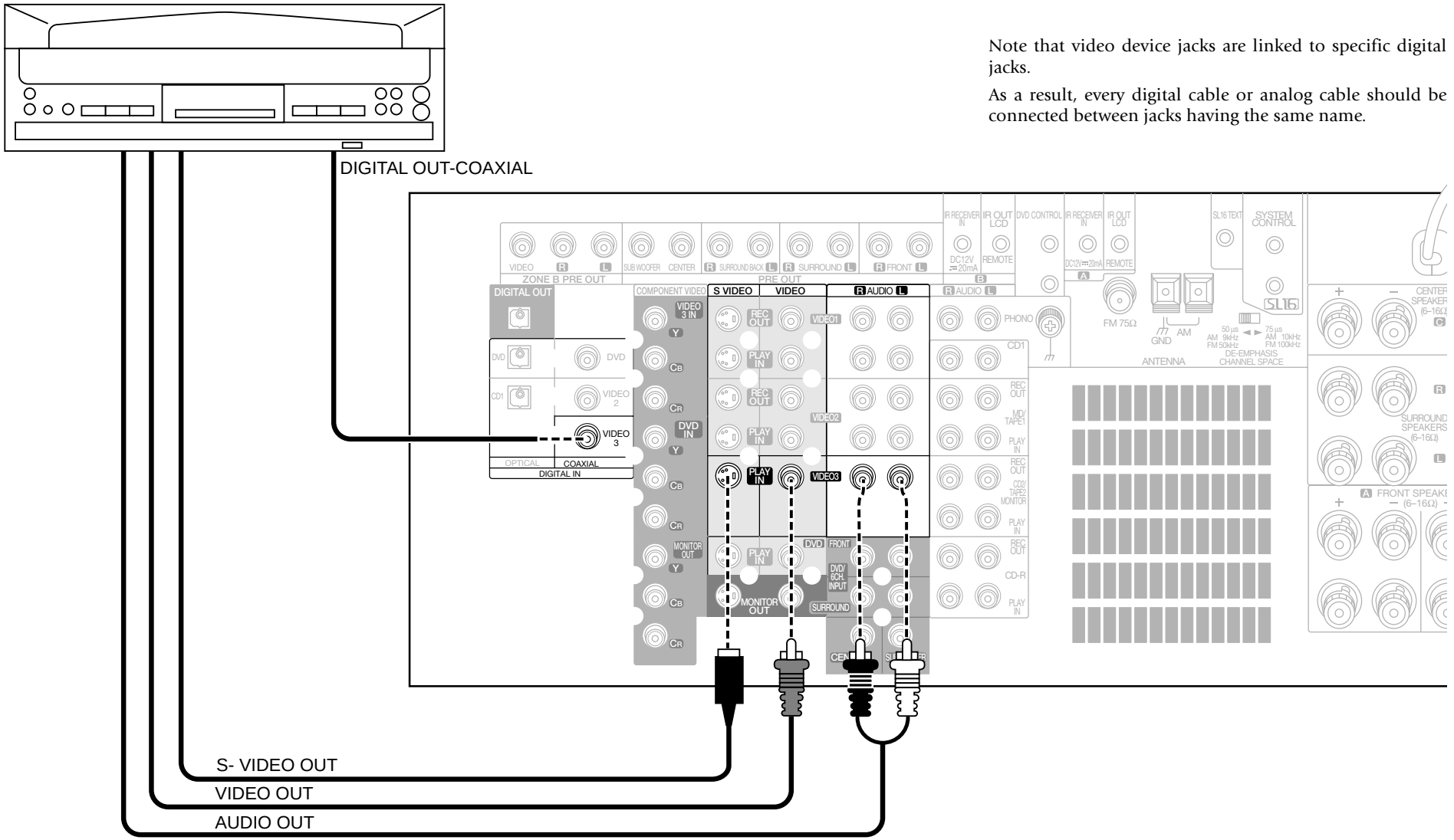
1. Review the information under "Before You Begin" on page 1. It contains important notes about the types of video connections you can make.
2. Connect the audio cables from the laser disc player's Audio OUT jacks to the receiver's **AUDIO** jacks (**VIDEO 3 PLAY IN**) as shown to the left.

   Do not connect the digital cable yet; it must be connected via the demodulator as described in the following steps.
3. Connect the AC-3 RF coaxial cable from the laser disc player's AC-3 RF OUT jack to the demodulator's **RF INPUT AC-3 RF** jack as shown to the left.
4. Connect the digital cable (either optical or coaxial) from the laser disc player's digital jack to the appropriate **DIGITAL INPUT** jack on the demodulator as shown to the left. Set the switch on the front of the DEM-9991D to the type of connection you made.
5. Connect the coaxial digital cable from the demodulator's **DIGITAL OUTPUT COAX**. jack to the receiver's **VIDEO3 COAXIAL** jack.
6. Connect the demodulator's supplied 12V AC adapter to the DC IN jack on the demodulator. **Do not** plug the adapter into the wall until you have finished making all connections to the receiver.
7. Go to "Noting Your Devices" on page 3 and note which jacks you used to connect your laser disc player. In addition, note the brand name and model number of the laser disc player.

When playing Dolby Digital* or DTS-encoded software in multichannel configuration, the connected audio signal should be the digital signal.

* When playing a LaserDisc recorded in the Dolby Digital format, connect the AC-3 RF output to the receiver.

Connecting Your Laser Disc Player (without AC-3 RF Output)



Note that video device jacks are linked to specific digital jacks.

As a result, every digital cable or analog cable should be connected between jacks having the same name.

Connecting Your Laser Disc Player (without AC-3 RF Output), continued

Do not plug in the receiver to AC power until you have connected all your devices.

These instructions describe how to connect a laser disc player with a PCM Digital Output. If your player has a Dolby Digital (AC-3) RF Out, see "Connecting Your Laser Disc Player (with AC-3 RF Output)" on page 26. This configuration does not allow Dolby Digital laser discs to be played. Please refer to your laser disc player's instructions for more detail about its connection jacks and capabilities.

The instructions in this section show one of several possible variations on connecting your laser disc player. For further assistance on optional configurations, contact the store where you purchased your receiver.

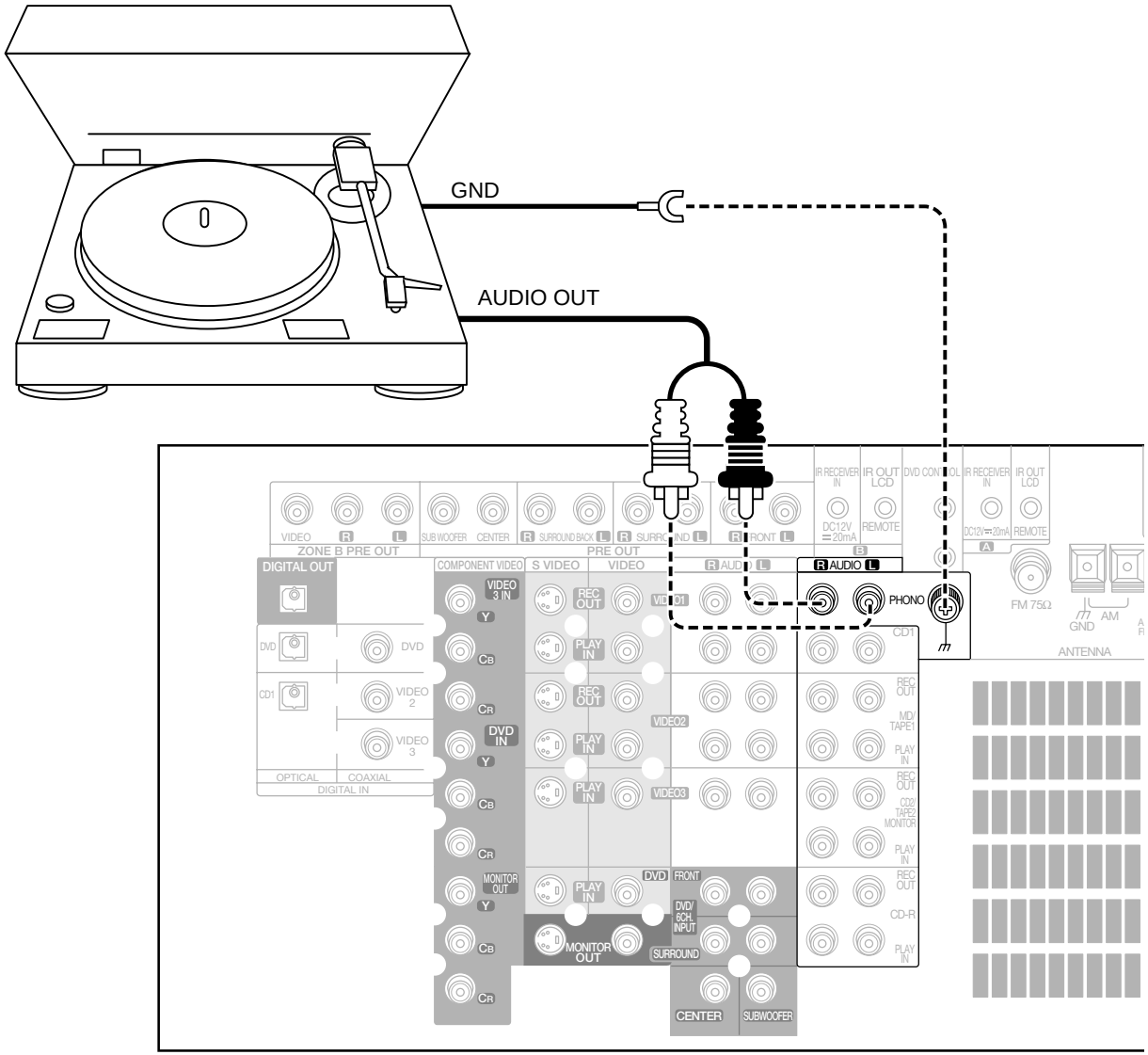
To Connect a PCM Digital Output Laser Disc Player:

1. Review the information under "Before You Begin" on page 1. It contains important notes about the types of video connections you can make.
2. Connect the audio cables from the laser disc player's Audio OUT jacks to the receiver's **AUDIO** jacks (**VIDEO3 PLAY IN**)as shown to the left.
3. Connect the video cable from the laser disc player's Video OUT jack to the receiver's **VIDEO PLAY IN** jack as shown to the left.

   Note that the jack sets are linked, even though they are not adjacent. You **must** connect all of the cables from your laser disc player to a linked jack set. If you connect the analog cables to **VIDEO2** and the digital cable to **VIDEO3**, your laser disc player will not work correctly.
4. Connect the digital cable from the laser disc player's digital jack to the appropriate digital jack on the receiver as shown to the left.
5. Go to "Noting Your Devices" on page 3 and note which jacks you used to connect your laser disc player. In addition, note the brand name and model number of the laser disc player.

When playing DTS-encoded software in multichannel configuration, the connected audio signal should be the digital signal.

Connecting Your Turntable/Record Player



NOTES

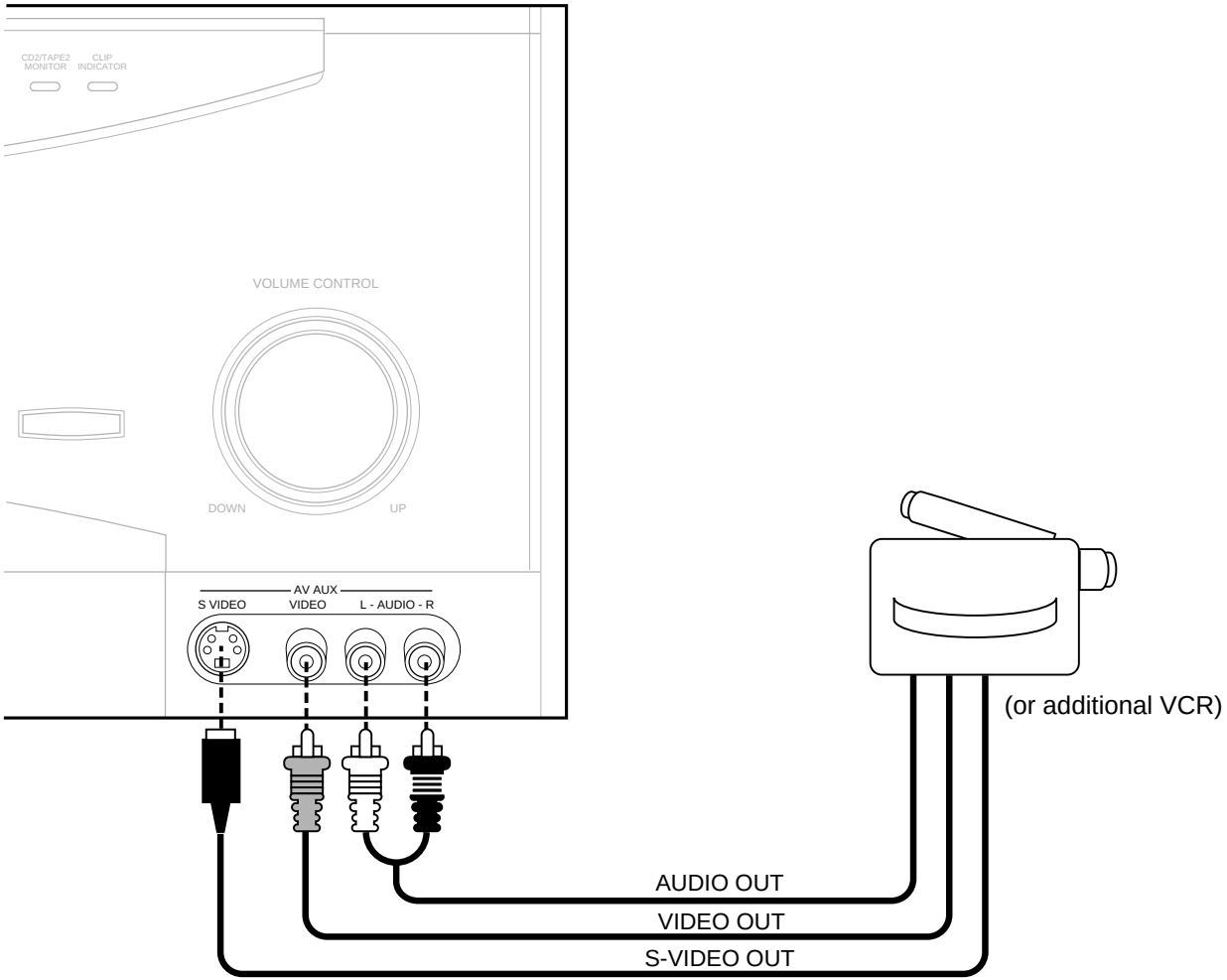
Do not plug in the receiver to AC power until you have connected all your devices.

This section focuses on the connections from your turntable/record player to the KRF-X7775D. Please refer to your turntable/record player's instructions for more detail about its connection jacks and capabilities.

To Connect a Turntable/Record Player:

1. Connect the audio cables from the turntable audio output jacks to the receiver's **PHONO R** and **L** jacks.
2. If your turntable includes a ground cable, connect the ground cable to the receiver's ⏚ (ground) jack.

Connecting a Camcorder or Additional VCR



This section focuses on the connections from your camcorder or VCR to the front of the KRF-X7775D. Please refer to your camcorder or VCR's instructions for more detail about its connection jacks and capabilities.

These instructions describe how to connect a camcorder or VCR quickly and probably temporarily to the front of the receiver. If you want a less cluttered and more permanent connection, see "Can I Connect an Additional VCR Permanently?", below.

To Connect a Camcorder or Additional VCR:

Connect the audio and video cables from the camcorder or VCR's Audio and Video jacks to the receiver's front panel jacks as shown to the left.

Can I Connect an Additional VCR Permanently?

Yes. To do so, follow the instructions under "To Connect a Secondary VCR:" on page 15.

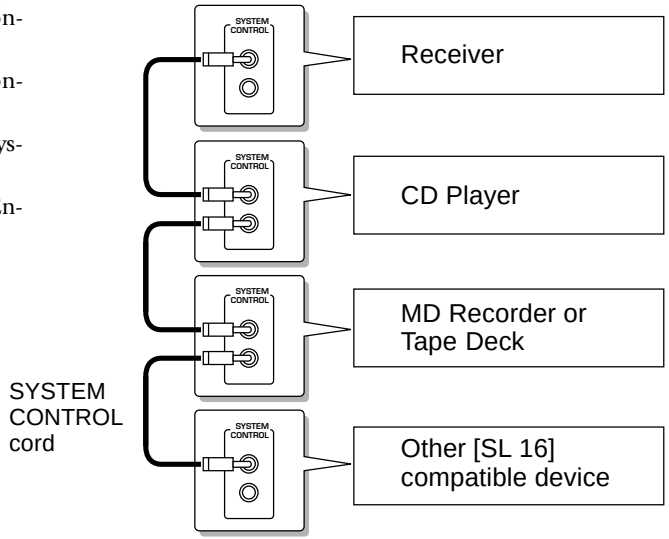
What if I Have Several Kenwood Devices (System Control Chaining)?

Connecting system control cords after connecting a Kenwood audio component system lets you take advantage of convenient system control operations.

This unit is compatible only with the [SL16] mode. The system control operation is not available if the unit is connected in the [XS8] connection mode.

If your component has the mode select switch, set the connected components to the [SL16] mode.

- You can connect the system control cord to either system control jack of the unit.
- Do this operation after completing all connections. (Ensure that the power plug is not connected.)



System Control connection allows you to:

- See the current status of the selected source device, such as *Play* or *Stop*
- control connected devices via the remote
- switch the receiver's input automatically to a connected device when you start playback from that device
- synchronize recording a CD automatically when you start playback from the connected CD player

Make sure the units are connected to the correct jacks on the receiver—for example, no device connected to the **CD2/ TAPE2 MONITOR** jacks can use a system control cable.

Some CD players and cassette decks do not support the SL16 system control mode. Do not include these devices in a set of SL16 chained connections.

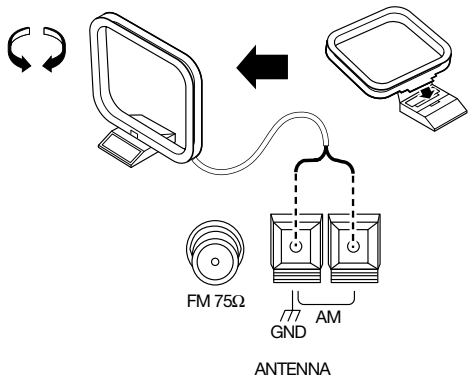
Do not mix connections of the two modes: if a device does not support the mode you are using for chaining, do not connect that device.

Do not connect system control cables to any device not specified by Kenwood. Using system control functions with a device that does not support them can damage the device.

Make sure system control plugs are firmly seated in the appropriate jacks.

Connecting the Antennas

AM Loop Antenna

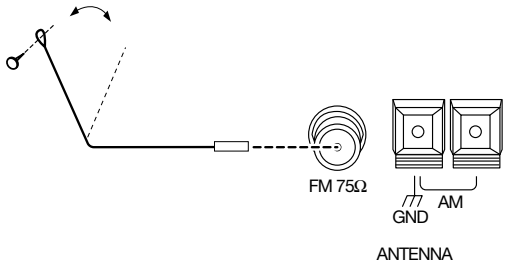


Your new receiver comes with an AM loop antenna for AM radio reception. To connect the AM antenna:

1. Insert the antenna loop into the base and position the loop.
2. Open the receiver's antenna terminal levers.
3. Insert the antenna's wires into the terminal as shown above.
4. Close the antenna terminal levers to lock the wires in place.
5. Adjust the antenna loop as necessary to improve reception.

To prevent hum interference, keep the AM antenna wires away from speaker wires, AC power cords, the TV chassis, and the receiver.

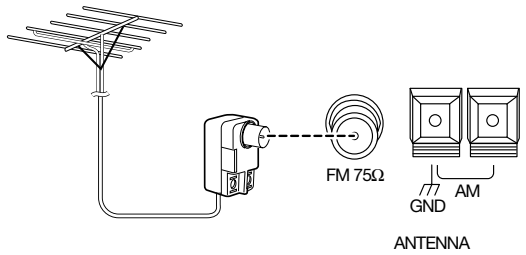
FM Indoor Antenna



Your new receiver also comes with an FM indoor antenna for FM radio reception. To connect the FM antenna:

1. Attach the antenna sheath to the pole in the center of the receiver's FM antenna jack, as shown above. When you attach the sheath for the first time, you may need to exert quite a bit of pressure.
2. Adjust the antenna as necessary to improve reception.
3. Tack the looped end of the antenna in the location that provides the best reception.

FM Outdoor Antenna



Kenwood recommends a permanently installed outdoor FM antenna for best FM reception. To connect an outdoor FM antenna:

1. Connect the antenna wire to a standard, commercially available antenna adapter as shown above.
2. Connect the adapter to the receiver's FM antenna jack.

What if I Have Cable Radio?

If you have cable radio, contact your cable provider for assistance with connecting to the KRF-X7775D.

Chapter Two: Setting Up Remote Control Unite

This Remote Control unit can be set up to remote control the receiver as well as most of the devices connected to it.

The appearance and functions of the Remote Control unit are slightly different from other remote control units. Since it is used to remote control a large number of devices, its screen shows the information of each device in separate menus.

This Remote Control unit can remote control the devices which are connected to the receiver and identified by the Remote Control unit.

In case the Remote Control unit cannot remote control a device you want to use, check if the device has been registered for identification by the Remote Control unit. The method of registering devices in Remote Control unit will be described later in this chapter.

This chapter is composed of the following sections.

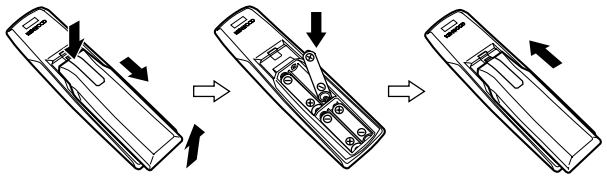
Installing the Batteries

Before you can set up any Remote Control unit item, you need to install batteries.

- The batteries that came with your new Remote Control unit are intended for you to use for an operation check—they may not last as long as ordinary batteries. We recommend replacing them with batteries for normal use.

To install the batteries:

1. Slide down the battery cover as shown by the figure to remove it.
2. Insert four AA(R6) batteries with the correct polarity. Then close the battery cover.



NOTES

If Remote Control unit is used outside the remote control range, the screen may show erroneous information. For the remote control range, refer to page 7 ("Remote controllable range") in the *Users' Guide*.

When the remote control range reduces or the Low Battery indicator ( ) will flash in the LCD screen, replace all of the four batteries together.

To extend the battery life, we suggest that you keep the backlight off except when necessary. For the backlight, refer to the *Users' Guide*.

Resetting the Remote Control Unit

The Remote Control unit can be reset in two ways

To reset the remote without clearing the setups:

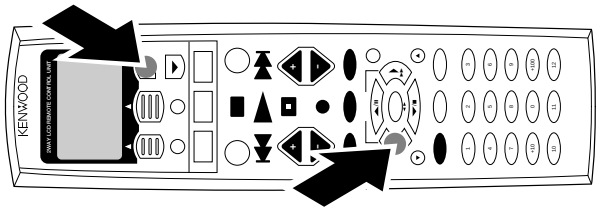
- Remove the batteries then reload them again.

  This resets the Remote Control unit but the speaker setup and device setup remain unchanged.

To reset everything and initialize the remote to the factory condition:

1. Remove the batteries.
2. While holding the (function up) button and button simultaneously, load the batteries.
3. Release the above buttons.

This operation resets all of the setups made by the user.



Basic Operation of Remote Control Unit

Remote Control unit is a new type of remote control unit which receives information from the receiver and display it on the LCD screen.

This section describes the basic operations of Remote Control unit.

Turning power on:

To turn the receiver on: Press the **SYS.POWER** button.

To turn the connected device on: Press the **AV POWER** button.

(It is necessary to perform the procedure in "Identifying Components for Remote Control Unit" on page 39 to enable remote control of AV devices.)

Selecting the input:

Audio device: Press the MUSIC button repeatedly. The input names where audio devices are identified by Remote Control unit will be shown on the LCD screen.

- ①CD1 :
- ②MD/Tape1 :
- ③Tuner :
- ④CD-R :
- ⑤Phono :

If an audio device which is connected to an input is not identified by Remote Control unit, the device name is skipped and not displayed.

Video device: Press the MOVIE button repeatedly. The input names where video devices are identified by Remote Control unit will be shown on the LCD screen.

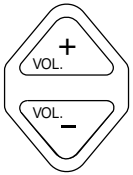
- ①Video1 :
- ②Video2 :
- ③Video3 :
- ⑤DVD/6ch :
- ⑥AV AUX :

If a video device which is connected to an input is not identified by Remote Control unit, the device name is skipped and not displayed.

Although **VIDEO4** is displayed in the initial status, the receiver cannot be switched to select **VIDEO4**. The **VIDEO4** display will not appear after the Remote Control unit has been set up.

TV: Press the TV button. The LCD screen shows TV if this is registered in and identified by Remote Control unit.

Adjusting the receiver's volume:
Press the **VOL.** (+/-) button repeatedly until the desired volume is obtained.



Muting audio temporarily:
Press the **MUTE** button.

To resume the original volume, press the **MUTE** button again or press one of the **VOL.** (+/-) buttons.

Using the numeric buttons:
When entering a figure directly for selecting a CD track number, etc., press the numeric buttons as shown below.

To enter 5 : 5

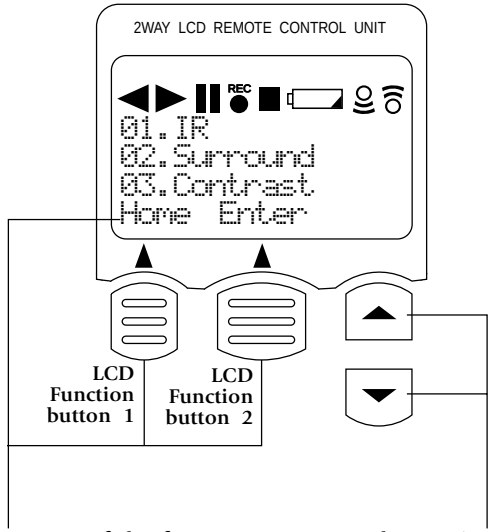
To enter 25 : +10 +10 5

or

: 2 5

The button to be pressed varies depending on the function.

Screen menu control operation



The contents of the function buttons vary according to current situations, and the function names (Next, Back, Enter, etc.) are shown on the screen.

For details, see the description of each control operation.

Press to select an item by scrolling the screen menu up or down.

The selected item is displayed in an inverted color.

Setting Up Speakers

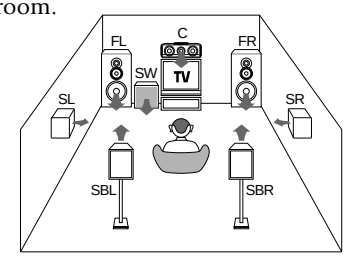
Before you can begin using the receiver to control your home entertainment system, you must set up Remote Control unit to operate your speakers effectively. There are three areas of speaker setup:

- SP Selection
- SP Level
- Bass Prek Level
- SP Distance

The receiver must be on and speakers must be connected before you can set up speakers.

Speaker Placement:

An example of installation is shown here.
Use this figure as a reference for installing the system according to the types of your speakers and conditions of your listening room.



FL/FR (Front speakers) : Place to the front left and right of the listening position. Front speakers are required for all surround modes.

C (Center speaker) : Place front and center. This speaker stabilizes the sound image and helps recreate sound motion.

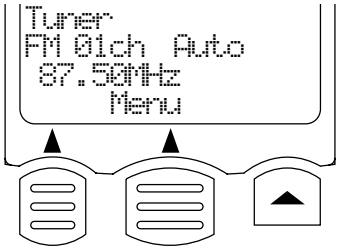
SW (Subwoofer) : Reproduces powerful deep bass sounds.

SL/SR (Surround speakers) : Place to the direct left and right, or slightly behind, the listening position at even heights, approximately 1 meter above the ears of the listeners.

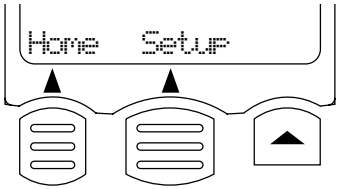
SBL/SBR (Surround back speakers) : The SBL/SBR speakers are required to reproduce the 6.1-channel signals. Place them on the left and right behind the listening position and at a height slightly higher than the SL/SR speakers.

Speaker Selection:

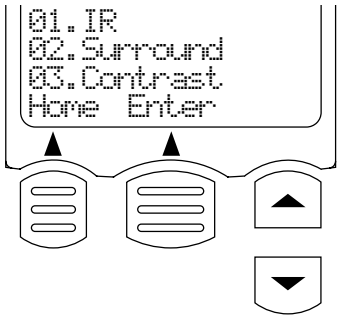
1. Press the **POWER ON/STANDBY** button on the main unit to turn the power on.
2. Press the **MUSIC** button or **MOVIE** button to display the "Menu".



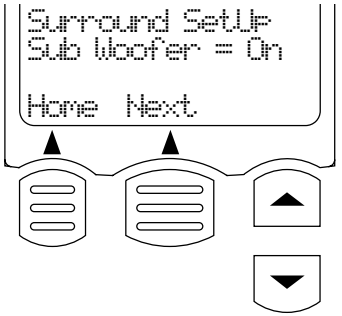
3. Press the **Menu** button (LCD function button 2).



4. Press the **Setup** button (LCD function button 2).



5. Press the LCD cursor up/down button (,) to select "02. Surround", then press the **Enter** button (LCD function button 2)



6. Press the LCD cursor up/down button (,) to select **Sub Woofer On** or **Off**, then press the **Next** button (LCD function button 2).
   - If you selected **On** for the subwoofer, all of the bass below 80Hz is removed from all other **Nml** (Normal)/ **THX** setting speakers in your system and is sent to the subwoofer in all listening modes. This improves your speakers' power handling and reduces overall distortion.
   - If you selected **Off** for the subwoofer, the bass tone is removed from all other **Nml/THX** setting speakers in your system and is sent to the front L and R speakers.

     Select **Nml/THX** for the speaker for use in THX reproduction.
7. When the front (left and right) speaker setting menu (**Front**) appears, select **Front Nml** (Normal)/**THX** or **Large** in the same way as step 6, then press the **Next** button. (If you set the subwoofer to **Off** in step 6, skip this step.)

8. When the center speaker setting menu (Center) appears, select **Center Nml/THX**, **Large** or **Off** in the same way as step 6, then press the **Next** button. Select Off when no center speaker is connected. (If you select **Nml/THX** in step 7. "Large" cannot be selected here.)
9. When the surround (left and right) speaker setting menu (**Surround**) appears, select **Surround Nml/THX**, **Large** or **Off** in the same way as step 6, then press the **Next** button. Select **Off** when no surround speaker is connected. (If you select **Nml/THX** in step 7. "Large" cannot be selected here)
10. When the surround back (left and right) speaker setting menu (**Sur. Back**) appears, select **Sur. Back Nml/THX**, **Large** or **Off** in the same way as step 6, then press the **Next** button. Select **Off** when no surround back speaker is connected. (If you select **Nml/THX** in step 7. "Large" cannot be selected here. If you select the surround to **Off** in step 9, skip this step and surround back speakers select Off automatically.)
    - Select **Nml/THX** if the speaker is not capable of producing clean, deep bass energy at output levels that match those produced by a typical powered subwoofer. All bass below 80Hz in that channel is removed from that speaker and is sent to the subwoofer (or sent to the front speakers if subwoofer is set to off) in all listening modes. Most speakers should be considered **Nml/THX.** If no subwoofer is connected, that signal is sent to front left and right speakers.

    If you have THX certified speakers, select the Nml setting.

    - Select **Large** if the speaker is capable of producing clean, deep bass energy at output levels that match those produced by a typical powered subwoofer. All bass below 80Hz in that channel is left in that speaker in all listening modes.

      The subwoofer may not output audio depending on the setups of the input signal, speakers and listen mode.

Speaker combinations that can be selected with custom setup

Subwoofer	Front speakers	Center speaker	Surround speakers	Surround back speakers
On	Nml/THX	Nml/THX	Nml/THX	Nml/THX
		Off		Off
			Off	Off
	Large	Nml/THX	Nml/THX	Nml/THX
		Large	Large	Large
		Off		Off
			Off	Off
Off	Large	Nml/THX	Nml/THX	Nml/THX
		Large	Large	Large
		Off		Off
			Off	Off
		Nml/THX	Nml/THX	Nml/THX
		Large	Large	Large
		Off		Off
			Off	Off

Off : Donot use

11. When the subwoofer re-mixing setting menu (**SW Re-Mix)** appears, select **On** or **Off** in the same way as step 6. (If you set the subwoofer to **Off** in step 6, skip this step.)
    - To output the bass from the subwoofer in any mode, set **SW Re-Mix** to **On**. **SW Re-Mix** mixes some of the bass components in the signals for all the speakers and output it to the subwoofer.

    The SW Re-Mix is defeated when the left and right Front speakers are set to **Nml/THX**.
12. Press the **Next** button to proceed to the "SP Level" setting below.
    Press the **Home** button to quit setting and return to the normal operation screen.

When activating the THX operation, it is recommended to set **SW Re-Mix OFF**-THX so that the THX operation can match correctly the human sense of audition.

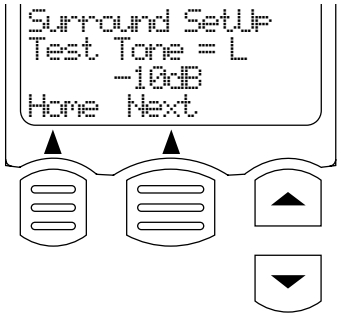
SP Level

Now position yourself in the listening position of your AV room and adjust the balance between the volume levels of all speakers, except for the subwoofer, by actually listening to them (To set the subwoofer level, see "Adjusting the Subwoofer Level" on page 38.). You need to set all the speakers to the same levels in order to enjoy the realistic, widely expanding surround sound.

It is recommended to use a SPL meter to adjust the speaker levels accurately. (See "To obtain accurate output levels" on page 38)

When setting the speaker levels, be careful against the high-level test tone that is produced.

1. Minimize external noise in the listening room.
2. Position yourself in a place where you usually listen to music or view video.
3. In step 11 of the speaker selection procedure above, select **Next**.
4. "Test Tone = Off" appears on the display.
5. Press the LCD cursor up/down button ([▲], [▼]) to select **On**, then press the **Next** button (LCD function button 2)



6. Test noise is generated from the front left speaker. Listen to the volume of the noise carefully.

   The test noise moves from a speaker to the next speaker every about 2 seconds. The test noise does not move while a control is manipulated.
7. Listen to the test noise level carefully. If the noise level from the center speaker differs from that from the front left speaker, press the [▲] or [▼] button to make the noise level equal. (Do not adhere to the displayed volume levels because they are provided for mere references. Use your own ears to check if the levels from two speakers are identical or not.)

8. Set the reproduce levels of all the speakers in the system in the same way as above.
9. Press the **Next** button to proceed to the "Bass Peak Level" setting below.

   Press the **Home** button to quit setting and return to the normal operation screen.

Adjusting the subwoofer level:

Human sense of audition tends to recognize the test noise from the subwoofer at a lower level than actual (the test noise from the subwoofer has been designed for use when an acoustic pressure meter is used in the balance adjustment). It is therefore difficult to adjust the subwoofer level by listening to the test noise through human ears.

To adjust the subwoofer level, play a musical tune you are accustomed to or a movie containing large amount of bass and adjust the level until you feel that the balance with other speakers is obtained.

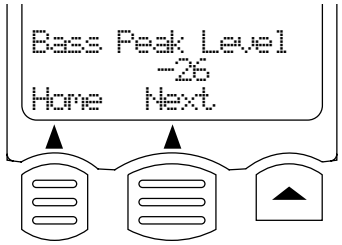
To obtain accurate output levels

To obtain accurate output levels, it is recommended to use a handheld Sound Pressure Level (SPL) meter. Readings should be taken from your actual listening position and adjust the level of each speaker to 75 dB SPL (C-weighted/ slow meter mode).

Bass Peak Level

In this step, you set the maximum volume of the bass sound so that the speaker sounds are not distorted even when excessively-large bass signal is input. When playback is performed hereafter, the bass sound is regulated automatically so as not to exceed the level set here.

1. In step 9 of the SP level procedure above, select **Next**.



2. Press the LCD cursor up or down button (or), then "-30 dB" appears on the display.
3. The test tone is output and its level is set automatically to -30 dB.

   The level of the test tone is not affected by the current setting of the volume control.
4. Press the LCD cursor up/down button (/) to adjust the speaker level at a level just before the audio starts to be distorted.
5. Press the **Next** button to proceed to the "SP Distance" setting below.

   Press the **Home** button to quit setting and return to the normal operation screen.

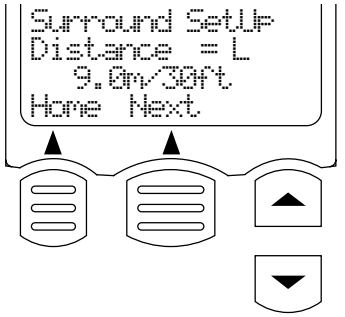
Do not output the test tone for a long period while the speaker audio is distorted.

SP Distance

Measure the distance from each speaker to the seat you most often use. Note the distance in the table below:

Speaker	Distance (ft or m)
Front left	
Center	
Front right	
Surround right	
Surround back right	
Surround back left	
Surround left	
Subwoofer	

1. In step 5 of the Bass Peak Level setting procedure above, select **Next** (LCD function button 2).



2. Set the distance of the L (left front) speaker using the or button.
3. Press the **Next** button and set the distance of the next speaker (C = Center) speaker.
4. Set the distances of all the speakers in the system.

   R: Front Right speaker

   SR: Surround Right speaker

   SBR: Surround Back Right speaker

   SBL: Surround Back Left speaker

   SL: Left Surround speaker

   SW: Subwoofer

   The speakers that are set to "Off" in "SP Selection" are not displayed.
5. Press the **Home** button (LCD function button 1) to return to the normal operation screen.

Identifying Components for Remote Control Unit

After the speaker setup, it is required to make Remote Control unit capable of identifying the devices it controls. Remote Control unit provided with the receiver can be used in setup of any device. Even when a device is not listed in the device codes in the Remote Control unit memory, the remote control function of the device can be programmed using the Learn function.

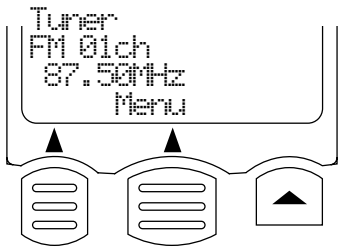
The Learn function can also be used to extend the remote controllable functions.

For details, see "If a device cannot be remote controlled with any code in the list, or to add remote control target functions..." on page 40.

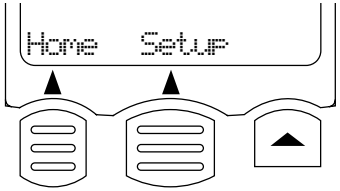
Registering a device

1. Ensure that the batteries are loaded.

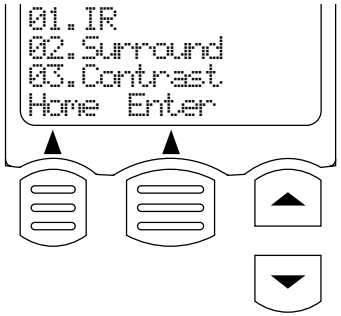
Press the **MUSIC** button or **MOVIE** button to display "Menu".



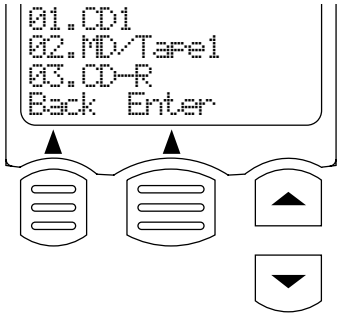
2. Press the **Menu** button (LCD function button 2).



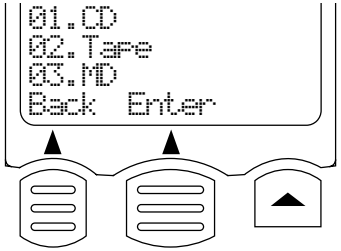
3. Press the **Setup** button (LCD function button 2).



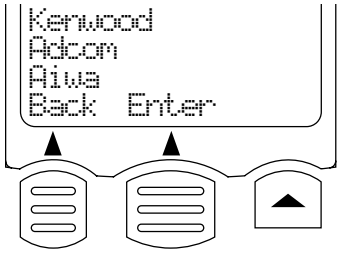
4. Select "01. IR" using the ▲ or ▼ button, then press the **Enter** button (LCD function button 2).



5. See "Noting Your Devices" on page 3 to check the devices and the jacks to which they are connected.
6. Select a device connection jack name (CD1, MD/Tape1, etc.) using the ▲ or ▼ button, then press the **Enter** button (LCD function button 2).

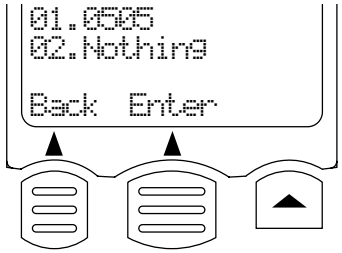


7. Select the device name connected to the jack (CD, Tape, etc.) using the ▲ or ▼ button, then press the **Enter** button.



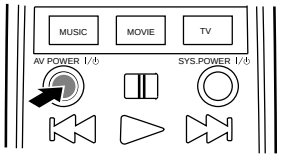
8. Select the manufacturer name of the device using the ▲ or ▼ button, then press the **Enter** button.

   If the manufacturer name of the device is not listed, select "Nothing" and press the Enter button. In this case, the code can be programmed using the Learn function (see page 40).



9. Select the setup code of the device (each device has a remote control identification number matching it) using the ▲ or ▼ button.
   - When the device is connected through a Kenwood system control cord, select **System**. In this case, the remote control signal is sent to the receiver then to the device connected to it.

10. Press the **AV POWER** button.



Pressing the **AV POWER** button causes Remote Control unit to transmit the signal turning on/off the device being set. The device is turned on if the selected setup code is correct. If it is not turned on, select another code and press the **AV POWER** button again. In case it cannot be turned on by any code, see "If a device cannot be remote controlled with any code in the list, or to add remote control target functions..." on this page.

Skip this step if **System** is selected in the setup code selection.

11. After ensuring that the setup code is correct, press the **Enter** button.
12. The display in step 4 re-appears.

Set other devices by repeating steps 5 to 12 for each of them.

To change a setup code:

When a new device is purchased to replace the previously connected device, it is required to let Remote Control unit identify the new device as described below.

1. Connect the new device (see pages 3 to 32).
2. Perform the procedure in "Identifying Components for Remote Control Unit" on page 39 to select the jacks of the new device and enter a new setup code. The newly selected code replaced the previous code at the moment the Enter button is pressed to save the new code.

To delete a setup code:

When a device is disconnected and no replacing device is connected, it is required to remove the setup code from this Remote Control unit memory as described below.

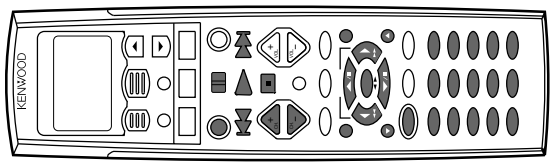
1. Perform the procedure in "Identifying Components for Remote Control Unit" on page 39 to select the jacks where the disconnected device was connected.
2. In step 6, select "Delete" "No Type" or by scrolling the device names. This makes Remote Control unit no longer identify the device.
   - If you select "**Delete**", the setup is deleted together with the input name. For example, once you delete **VIDEO1** to **VIDEO3**, the **VIDEO1** to **VIDEO3** inputs are skipped even when they are selected.
   - If you select "**No Type**", the input name is displayed but only the registered device name is deleted.

If a device cannot be remote controlled with any code in the list, or to add remote control target functions...

This Remote Control unit incorporates an advanced Learn function which makes it possible to program remote control signals used by another remote control unit in itself. If the setup code of a connected device is not contained in the Remote Control unit memory, program the code in Remote Control unit using this function.

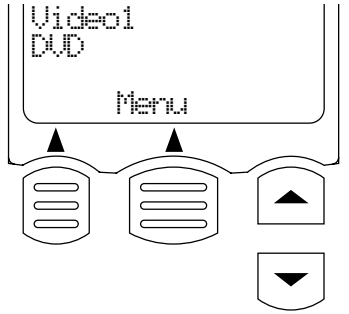
This function can also be used to change a setup code or add extended function to the remote control target.

- Up to five extended functions per device can be programmed additionally in this Remote Control unit using "Extend1" to "Extend5" displayed on the LCD screen.
- The remote control signals transmitted by this Remote Control unit buttons can be changed. The signals from the buttons painted black in the following figure can be modified.

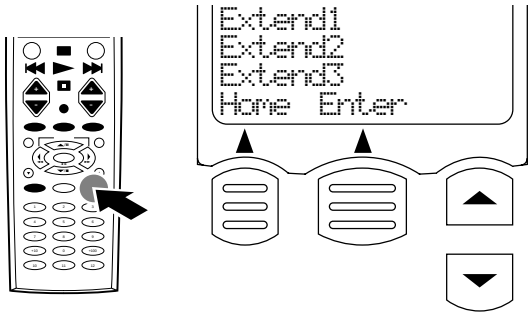


To program new functions in Extend1 to Extend5:

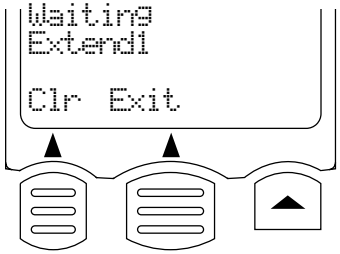
1. Select the controlled device (CD, DVD, etc.) by pressing the **MUSIC**, **MOVIE** or **TV** button.



2. Press the **LEARN** button.



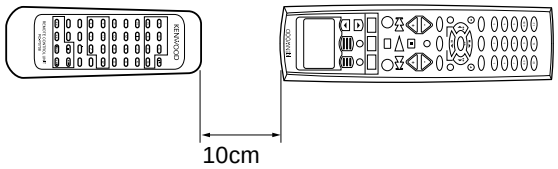
3. Select one of Extend1 to Extend5 using the ▲ or ▼ button, then press the **Enter** button (LCD function button 2).

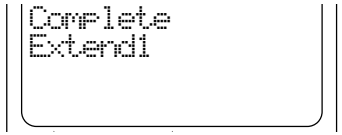


Press the **Exit** button (LCD function button 2) to exit from the operation.

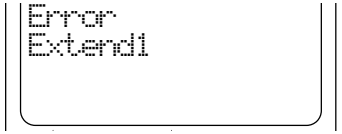
Press the **Clr** (clear) button (LCD function button 2) if you want to clear the previously programmed remote control signal and reset to the factory shipment condition. (Cleared is displayed.)

4. To program remote control signal, place the two units opposite to each as shown below. On the Remote Control unit of the selected device, press the button transmitting the desired remote control signal. Complete is displayed when the remote control signal has been programmed in this Remote Control unit.





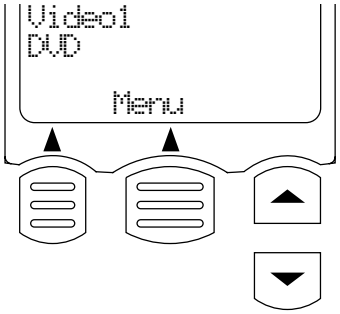
- "Error" is displayed when it failed.



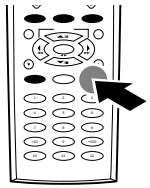
5. To program other remote control signals, repeat steps 1 to 4 for each.

To change the remote control signal from a Remote Control unit button (When you select "Nothing" in step 8 on page 39):

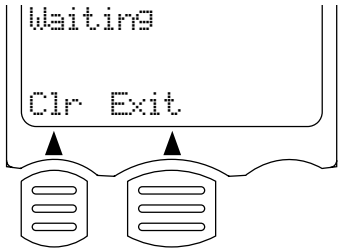
1. Select the controlled device (CD, DVD, etc.) by pressing the **MUSIC**, **MOVIE** or **TV** button.



2. Press the **LEARN** button.

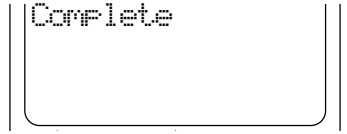


3. On the Remote Control unit, press the button you want to change the function.



Press the **Exit** button (LCD function button 2) to exit from the operation.

4. On the Remote Control unit of the selected device, press the button transmitting the desired remote control signal. Complete is displayed when the remote control signal has been programmed in this Remote Control unit.

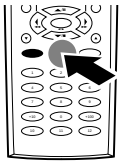


5. To program other remote control signals, repeat steps 1 to 4 for each.

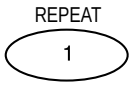
To reset a button to the factory shipment condition by clearing the previously programmed signal:

Press the **Clr** button in step 3 of the procedure above. (Cleared is displayed)

The remote control signal activated by holding the **F.SHIFT** button cannot be modified.



example:



"REPEAT" function cannot be modified.

In programming a remote control signal, be sure to use the Remote Control unit originally provided with the AV device.

Chapter Tree: Setting Up on the Receiver

It is possible to set up the speakers on the receiver main unit.

However, some of the setting items such as the controlled device registration should be set on the PowerTouch. If setup is made on the Remote Control unit, it is not necessary to repeat any setup on the receiver side.

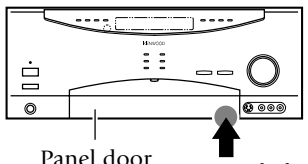
Therefore, it is recommended to perform setup on the PowerTouch. This chapter describes the setup on the receiver only as an alternative method in case the setup is not made on the Remote Control unit.

Do not operate the Remote Control unit during the receiver setup.

Preparation for setup

Most of the receiver control buttons are accommodated inside the panel door. Make the following preparation for setup on the receiver.

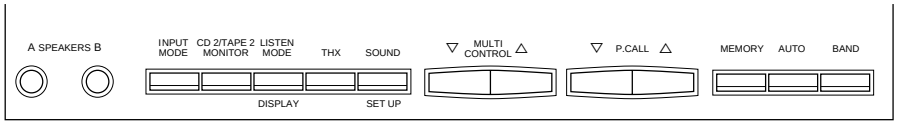
1. Plug the power cord into a household power outlet.
2. Press the POWER switch to supply the main power. The receiver now enters the STANDBY mode (in which remote control is available). Then press the **ON/STANDBY** button to turn the receiver **ON**.
3. Open the panel door.



Panel door

Press the lower part of the panel door.

Button layout



Speaker Setup

1. Selecting the speakers

Selecting the **SUBWOOFER**:

① Press the **SET UP** button (**SOUND** button) inside the panel door until "SUBWOOFER OFF (or ON)" message appears on the display (for more than 2 seconds).

② Press the **MULTI CONTROL** (▽/△) button to select **ON** (when a subwoofer is used) or **OFF** (when not).

Selecting the **FRONT** speakers:

③ Press the **SET UP** button to display "FRONT NML/THX (or FRONT LARGE)".

④ Press the **MULTI CONTROL** (▽/△) button to select **FRONT LARGE** (large-sized speakers) or **NML/THX** (normal-sized speakers).

If the **SUBWOOFER** is set to **OFF**, the **FRONT** speakers are set automatically to LARGE and the **CENTER** speaker selection display appears automatically.

Selecting the **CENTER** speaker:

⑤ Press the **SET UP** button to display "CENTER NML/THX (or LARGE or OFF)".

⑥ Press the **MULTI CONTROL** (▽/△) button to select **CENTER LARGE** (large-sized speaker), **NML/THX** (normal-sized speaker) or **OFF** (no center speaker).

If the **FRONT** is set to **NML/THX**, the **CENTER** speaker can be set to only either **NML/THX** or **OFF**.

Selecting the **SURROUND** speakers:

⑦ Press the **SET UP** button to display "SURR NML/THX (or LARGE or OFF)".

⑧ Press the **MULTI CONTROL** (▽/△) button to select **SURR LARGE** (large-sized speakers), **NML/THX** (normal-sized speakers) or **OFF** (no surround speaker).

When the **FRONT** is set to **NML/THX**, the **SURROUND** speakers can be set to only either **NML/THX** or **OFF**.

When **SURROUND OFF** is selected, **SURROUND BACK** is set automatically to **OFF** and the **SW Re-Mix** setting menu is displayed.

If the **SUBWOOFER** is set to **OFF**, selecting **SW RE-MIX** step will be skipped.

Selecting the **SURROUND BACK** speakers:

⑨ Press the **SET UP** button to display "S.BACK NML/THX (or LARGE or OFF)".

⑩ Press the **MULTI CONTROL** (▽/△) button to select **S. BACK LARGE** (large-sized speakers), **NML/THX** (normal-sized or THX speakers) or **OFF** (no surround speaker).

When the **FRONT** is set to **NML/THX**, the **SURROUND BACK** speakers can be set to only either **NML/THX** or **OFF**.

Selecting **SW RE-MIX**:

⑪ Press the **SET UP** button to display "SW-REMIX OFF (or ON)". If the **SUBWOOFER** is set to **OFF**, selecting SW RE-MIX step will be skipped.

⑫ Press the **MULTI CONTROL** (▽/△) button to select **ON** or **OFF**.

⑬ Press the **SET UP** button to proceed to "Adjusting the speaker volumes" below. To exit from setting, press the **SET UP** button repeatedly until "SETUP FIXED" is displayed.

For details on the **SW RE-MIX** and the selection of speakers, please see page 38.

2. Adjusting the speaker volumes

Adjust the volume balance between the speakers in the system by actually listening to them. See page 39 for details.

① Minimize external noise in the listening room.

② Position yourself in a place where you usually listen to music or view video.

③ Perform operation in step ⑬ of procedure 1 above.

"TEST TONE OFF" is displayed.

④ Press the **MULTI CONTROL** (▽/△) button to select **ON**, then press the **SET UP** button.

When setting the speaker levels, be careful against the high-level test tone that is produced.

The speaker volume adjustment display appears and test noise is generated from the front left speaker ("L 0 dB" displayed). Listen to the volume of the noise carefully.

⑤ When the test noise moves to the center speaker and "C 0 dB" is displayed, adjust the volume to the same level as the front left speaker by pressing the **MULTI CONTROL** (▽/△) button.

⑥ Similarly, adjust the volumes of the "R" (front right), "SR" (surround right), "SBR" (surround back right), "SBL" (surround back left) and "SL" (surround left) speakers.

Do not adjust the "SW" (Subwoofer) volume using the test noise. It should be adjusted while listening to ordinary music.

⑦ Press the **SET UP** button to display "BASS PEAK OFF"

⑧ Press the **MULTI CONTROL** (▽ or △) button, then displayed "-30 dB".

The test noise is output. Press the **MULTI CONTROL** (▽/△) button to set its level to a level just before the speaker sound starts to be distorted.

⑨ Press the **SET UP** button to proceed to "Selecting the speaker distances" below. To exit from setting press the **SET UP** button repeatedly until "SETUP FIXED" is displayed.

3. Setting the speaker distances

Measure the distance between each speaker and the listening position you frequently use. See page 38 for details.

① After the operation of ⑨ in procedure 2 above, the speaker distance setting display appears.

② When "L 3.0m/10ft" is displayed, correct the distance of the front left speaker from you using the **MULTI CONTROL** (▽/△) button.

③ Press **SET UP** button to display "C 3.0m/10ft" and correct the distance of the center speaker from you using the **MULTI CONTROL** (▽/△) button.

④ Similarly, set the distances of the "R" (front right), "SR" (surround right), "SBR" (surround back right), "SBL" (surround back left), "SL" (surround left) and "SW" (Subwoofer) speakers.

⑤ Press the **SET UP** button repeatedly until "SETUP FIXED" is displayed.

Chapter Four: Setting Up Multiple Zones

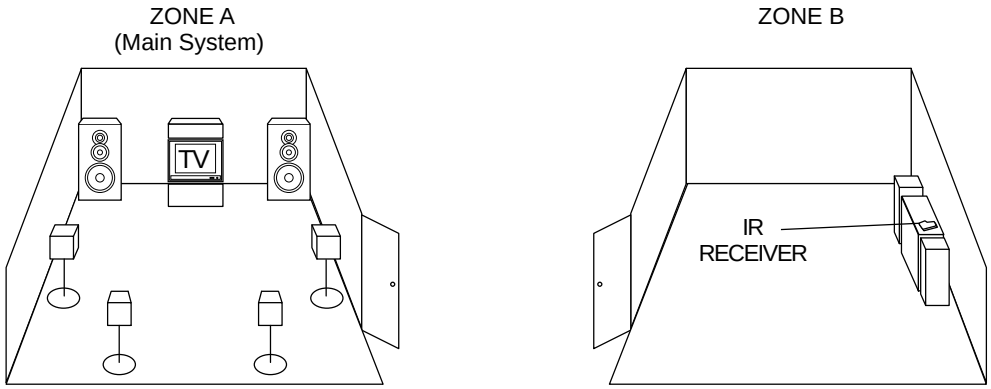
The KRF-X7775D offers dual-zone output and control, which enables you to use a single receiver to control devices and speakers for two zones (rooms). Due to its advanced features and controls, you can play music in one zone while watching a movie in the other!

Depending on your tastes and budget, you can set up one of the following "sound scenarios" to make full use of the Receiver's capabilities:

No additional amplifier for Zone B: You can use the Receiver's Speaker B output for Zone B. This allows you to listen to full surround sound in Zone A only, or in stereo in Zone A when Zone B is active. The sound in Zone B will always be in stereo.

Stereo amplifier for Zone B: You can use an additional stereo amplifier for Zone B (connected to the Receiver's Zone B Preouts). This allows you to listen to full surround sound in Zone A even if you are also listening in Zone B. The sound in Zone B will always be in stereo.

Multiple zones require you to run wires and cabling from the primary zone (Zone A) where your Receiver is installed to another zone (Zone B) where an IR Receiver (for U.K. and U.S. military), a second set of speakers, and possibly a second TV/Monitor is installed:



This chapter discusses some of the connection configurations and additional Remote Control unit setup necessary if you want to take full advantage of the Receiver's multiple-zone capabilities. It contains the following sections:

For U.K. only:
To control the receiver from Zone B an optional IR receiver is required (see "Connecting the External Infrared Receivers and IR Repeaters" on page 46).

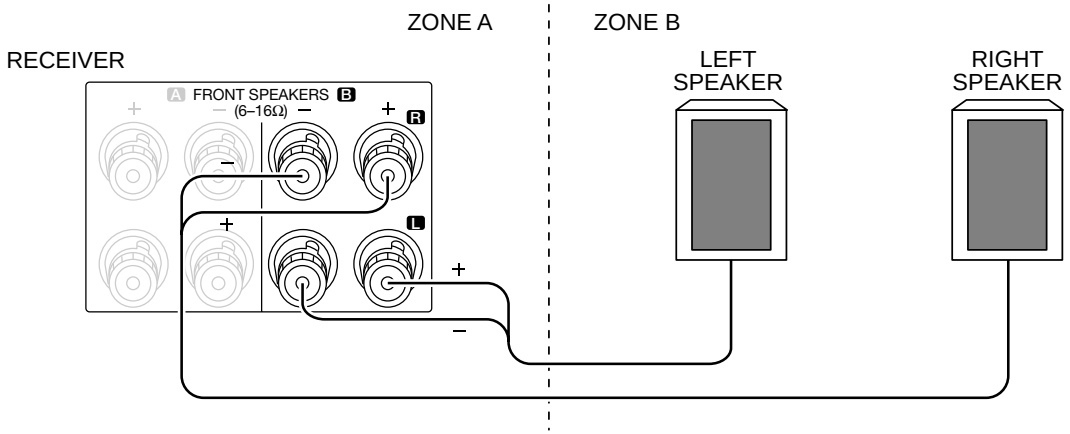
If you plan on using the KRF-X7775D in a Dual-Zone application, you must use the composite video connections in addition to any S-Video connections. Only video sources connected with composite connectors can be viewed in the second zone (Zone B).

You must use the analog audio cable connections. (Digital inputs are not sent to Zone B.)

Making Connections

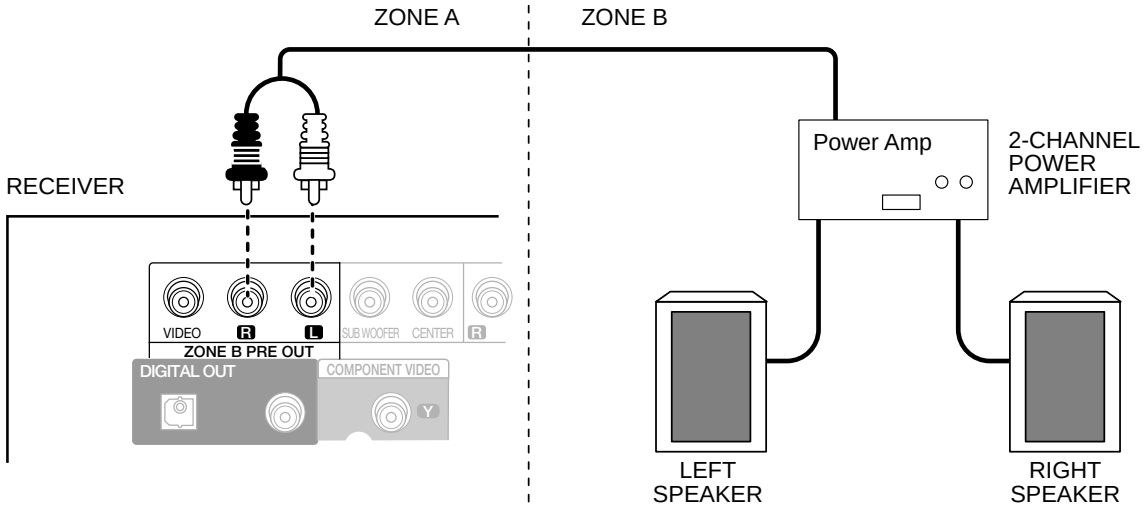
This section describes how to connect speakers in the two zones to support the different scenarios. Before you read this section, Kenwood recommends reading "Connecting Your Speakers" on page 4 of this guide. In addition, this section discusses how to connect a second TV/Monitor and how to connect an IR Receiver and IR Repeaters. (for U.K. and U.S. military)

Scenario 1: Surround Sound in Zone A only/Stereo in Zone A and Stereo in Zone B (Using the Receiver's Speaker B Outputs)



The five amplifiers built into the receiver meet your sound needs for both zones. The built-in amplifiers allow you to listen to full surround sound if you are listening in Zone A only, or stereo in Zone A if both zones are active. You will always hear stereo in Zone B. Make the speaker connections as shown in the illustration under "To Connect Front and Surround Sound Speakers:" on page 5, being sure to also connect the Zone B speakers to the **SPEAKER B** binding post.

Scenario 2: Surround Sound in Zone A and Stereo in Zone B (Using a Stereo Amplifier in Zone B)



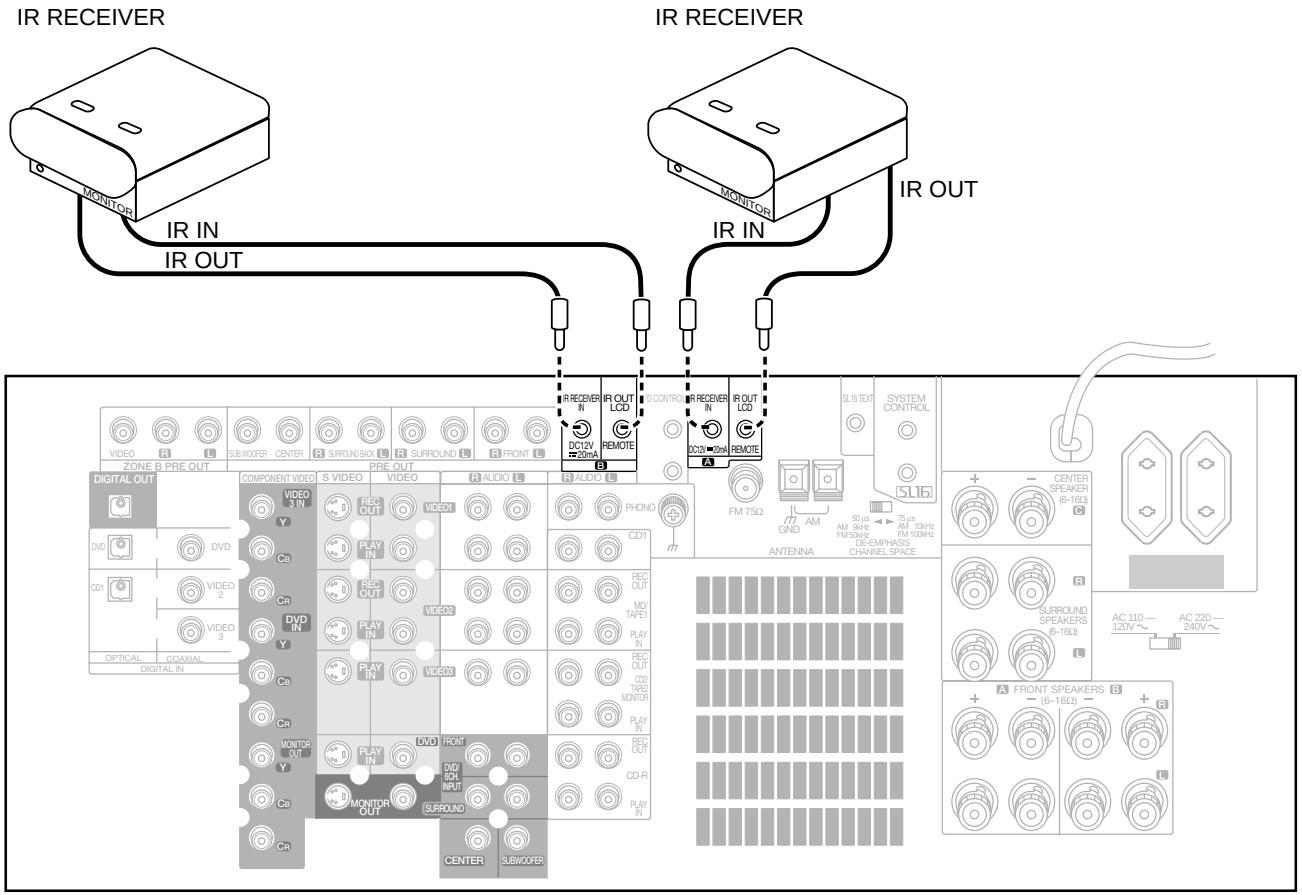
You use an additional stereo amplifier for Zone B. This allows you to listen to full surround sound in Zone A even if both zones are active. You will always hear stereo in Zone B. Make the speaker and amplifier connections as shown in the illustration.

Both Scenarios: Connecting a Second TV/ Monitor

If you plan to watch movies, or any other visual entertainment activity in Zone B, you must connect an additional TV/Monitor. To do so, connect a standard composite video cable from the Zone B TV to the ZONE B PRE OUT VIDEO jack.

The above is possible only when the composite signals are input.

Connecting the External Infrared Receivers and IR Repeaters (for U.K. and U.S. military)



Connecting the External Infrared Receivers and IR Repeaters (for U.K. and U.S. military), continued

Your new audio-video receiver supports two-way external infrared (IR) remote transceiver control. The two-way external infrared (IR) remote transceiverenables you to use the Receiver's PowerTouch to operate the receiver if itr is:

- in a stereo closet/cabinet
- behind glass doors
- in another zone
- in any situation where the device to be controlled is not visible

For more information about using external IR receivers in another zone, see "Chapter Four: Setting Up Multiple Zones" on page 48 of the *Users' Guide*.

To Connect IR Receivers:

1. Connect the IR receiver's output cable to the Receiver's IR RECEIVER IN jack. This jack supports a 12V 20mA signal.
2. (For some IR receiver)

   Connect an AC adaptor to the IR receiver. Do not plug the adaptor into the wall until all connections are made.

Make sure that the input/output terminals and electrical specifications of the IR receiver match those of this unit. (see Chapter Five: Warning and Specifications)

Chapter Five: Warning and Specifications

Read this page carefully to ensure safe operation.

Warnings

FCC WARNING
This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

NOTE: 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 may cause harmful interference to radio communications if it is not installed and used in accordance with the instructions. 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 the receiver.
- Connect the equipment into an outlet on a circuit different from the one that the receiver is connected to.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Compliance Notice
Audio-video Receiver, VR-5700, VR-5090 and VR-5080, and Remote Controller, RC-R0913

These devices comply with Part 15 of FCC Rules.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

KENWOOD U.S.A. CORPORATION

2201 East Dominguez St., Long Beach, CA 90801-5745

Telephone: 310-639-9000

IC(Industry Canada) Notice
Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Note to CATV System Installer:
This reminder is provided to call the 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.

NOTE: Do not use contact cleaning agents because they could cause a malfunction. Be especially careful not to use contact cleaning agents containing oil, since they may deform the plastic components.

Kenwood follows a policy of continuous advancements in development. For this reason, specifications may be changed without notice.
Full performance may not be exhibited in extremely cold locations (below 0 deg. C).

KRF-X7775D (for U.K.)

Audio Section

Rated Output Power during stereo operation
1 kHz, 0.03% T.H.D. , 6Ω (DIN/IEC) ..... 130W + 130 W
20 Hz ~ 20 kHz, 0.03% T.H.D. , 6Ω (IEC) ..... 120W + 120 W

Effective Output Power during surround operation (Simultaneous power)
Front
20 HZ ~ 20 kHz, 0.06% T.H.D. at 6Ω ..... 100W + 100 W
Center
20 HZ ~ 20 kHz, 0.06% T.H.D. at 6Ω 100W
Surround
20 HZ ~ 20 kHz, 0.06% T.H.D. at 6Ω ..... 100W + 100W

Effective Output Power during surround operation, all Total Harmonic Distortion ..... 0.005 % (1 kHz, 65 W, 6 Ω)

Frequency Response (IHF'66)
Line (CD1, MD/TAPE, CD2/TAPE2 MONITOR, CD-R, VIDEO 1 - 3, DVD/6CH.) ..... 7 Hz ~ 100 kHz, 0 dB, -3 dB

Signal to Noise Ratio (IHF '66)
PHONO (MM) ..... 76 dB
CD1 ..... 98 dB

Input Sensitivity / Impedance
PHONO (MM) ..... 4.0 mV / 47 kΩ
CD1 ..... 300 mV / 47 kΩ
DVD/6CH. ..... 300 mV / 47 kΩ

Output Level / Impedance
TAPE REC ..... 300 mV / 2.2 kΩ
PRE OUT **(Front, Center, Surround, Surround back)** ..... 1 V / 470 Ω
PRE OUT **(Subwoofer)** ..... 1.8 V / 470 Ω

Tone Control
Bass ..... ± 7 dB (at 100 Hz)
Treble ..... ± 7 dB (at 10 kHz)

Loudness Control Volume at -30 dB level
..... +6 dB (100 Hz), +3 dB (10 kHz)

Digital Audio Section

Sampling Frequency ..... 32 kHz, 44.1 kHz, 48 kHz, 96 kHz
Input Level / Impedance / Wavelength
Optical ..... -15 dBm ~ -21 dBm, 660 nm ±30 nm
Coaxial ..... 0.5 Vp-p / 75 Ω

Output Level / Impedance / Wavelength
Optical ..... -15 dBm ~ -21 dBm, 660 nm ±30 nm

Video Section

Video Inputs / Outputs
Video (composite) ..... 1 Vp-p / 75 Ω
S Video (luminance signal) ..... 1 Vp-p / 75 Ω
(chrominance signal) ..... 0.286 Vp-p / 75 Ω
Component (luminance signal) ..... 1 Vp-p / 75 Ω
(P_B/P_R-signal) ..... ±0.350 Vp-p / 75 Ω

FM Tuner Section

Tuning Frequency Range ..... 87.5 MHz ~ 108 MHz
Usable Sensitivity (DIN at 75 Ω)
Mono ..... 1.3 µV/ 13.2 dBf (40 kHz dev., S/N 26 dB)
Stereo ..... 35.1 µV/ 42.1 dBf (46 kHz dev., S/N 46 dB)
Total Harmonic Distortion (DIN at 1 kHz)
Mono ..... 0.2 % (71.2 dBf input)
Stereo ..... 0.8 % (71.2 dBf input)
Signal to Noise Ratio (DIN weighted, 1kHz)
Mono ..... 65 dB (40 kHz dev., 71.2 dBf input)
Stereo ..... 60 dB (40 kHz dev., 71.2 dBf input)
Stereo Separation (DIN at 1 kHz) ..... 36 dB
Selectivity (DIN ±300 kHz) ..... 64 dB
Frequency Response ..... 30 Hz ~ 15 kHz, +0.5 dB, -3.0 dB

AM Tuner Section

Tuning Frequency Range ..... 531 kHz ~ 1,602 kHz
Usable Sensitivity (30 % mod., S/N 20 dB)
..... 16 µV / (500 µV/m)
Signal to Noise Ratio (30 % mod., 1 mV input) ..... 50 dB

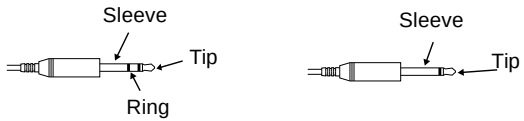
IR Receiver In Terminal

Maximum Output Current ..... 20 mA
Operating Voltage ..... 12 V
Output Impedance ..... 470 Ω

IR Out LCD Remote Terminal
Maximum Output Current ..... 20 mA
Operating Voltage ..... 5 V
Output Impedance ..... 470 Ω

SHAPE OF PLUG TO BE CONNECTED:

IR Receiver In and IR Out LCD Remote	DVD Control
Stereo mini plug	Mono mini plug



IR IN/OUT SPECIFICATION:

	Terminal	
	IR Receiver In	IR Out LCD Remote
To Tip	Signal	Signal
To Ring	Ground	———
To Sleeve	+12V	Ground

General

Power consumption ..... 500 W
AC outlet
Switched ..... 2 (total 90 W max.)
Dimensions ..... W : 480mm
H : 191mm
D : 416mm
Weight (Net) ..... 16.8 kg

KRF-X7775D (for Other Countries)

Audio Section

Rated Output Power during stereo operation
20 Hz ~ 20 kHz, 0.7% T.H.D. , 6Ω (IEC)
..... 130W + 130 W
120 watts per channel minimum RMS, both channels driven, at 6 Ω from 20Hz to 20kHz with no more than 0.05% total harmonic distortion (FTC).
Effective Output Power during stereo operation
1 kHz, 10% T.H.D. at 6 Ω ..... 170 W + 170 W
Effective Output Power during surround operation, one channel driven
Front
1 kHz, 10% T.H.D. at 6 Ω ..... 180 W + 180 W
20 Hz ~ 20 kHz, 0.06% T.H.D. at 6 Ω ..... 150 W + 150 W
Center
1 kHz, 10% T.H.D. at 6 Ω ..... 180 W
20 Hz ~ 20 kHz, 0.06% T.H.D. at 6 Ω ..... 150 W
Surround
1 kHz, 10% T.H.D. at 6 Ω ..... 180 W + 180 W
20 Hz ~ 20 kHz, 0.06% T.H.D. at 6 Ω ..... 150 W + 150 W
channel driven (Front, Center, Surround)
1 kHz, 0.005% T.H.D. at 6 Ω ..... 95 W × 5
Total Harmonic Distortion ..... 0.005 % (1 kHz, 65 W, 6 Ω)
Frequency Response (IHF'66)
Line (CD1, MD/TAPE, CD2/TAPE2 MONITOR, CD-R, VIDEO 1 - 3, DVD/6CH.) ..... 7 Hz ~ 100 kHz, 0 dB, -3 dB
Signal to Noise Ratio (IHF '66)
PHONO (MM) ..... 76 dB
CD1 ..... 98 dB
Input Sensitivity / Impedance
PHONO (MM) ..... 4.0 mV / 47 kΩ
CD1 ..... 300 mV / 47 kΩ
DVD/6CH. ..... 300 mV / 47 kΩ
Output Level / Impedance
TAPE REC ..... 300 mV / 2.2 k W
PRE OUT (Front, Center, Surround, Surround back)
..... 1 V / 470 W
PRE OUT (Subwoofer) ..... 1.8 V / 470 Ω
Tone Control
Bass ..... ± 7 dB (at 100 Hz)
Treble ..... ± 7 dB (at 10 kHz)
Loudness Control
Volume at -30 dB level ..... +6 dB (100 Hz), +3 dB (10 kHz)

Digital Audio Section

Sampling Frequency ..... 32 kHz, 44.1 kHz, 48 kHz, 96 kHz
Input Level / Impedance / Wavelength
Optical ..... -15 dBm ~ -21 dBm, 660 nm ±30 nm
Coaxial ..... 0.5 Vp-p / 75 Ω
Output Level / Impedance / Wavelength
Optical ..... -15 dBm ~ -21 dBm, 660 nm ±30 nm

Video Section

Video Inputs / Outputs
Video (composite) ..... 1 Vp-p / 75 Ω
S Video (luminance signal) ..... 1 Vp-p / 75 Ω
(chrominance signal) ..... 0.286 Vp-p / 75 Ω
Component (luminance signal) ..... 1 Vp-p / 75 Ω
(Cb/Cr-signal) ..... ±0.350 Vp-p / 75 Ω

FM Tuner Section

Tuning Frequency Range ..... 87.5 MHz ~ 108 MHz
Usable Sensitivity (Mono)
..... 1.3 µV (75 Ω) / 13.2 dBf (75 kHz dev., sinad 30 dB)
50dB Quieting Sensitivity
Stereo ..... 25.1 µV (75 Ω) / 39.2 dBf
Total Harmonic Distortion (1 kHz)
Mono ..... 0.3 % (71.2 dBf input)
Stereo ..... 0.5 % (71.2 dBf input)
Signal to Noise Ratio (1 kHz, 75 kHz DEV.)
Mono ..... 75 dB (71.2 dBf input)
Stereo ..... 70 dB (71.2 dBf input)
Stereo Separation (1 kHz) ..... 40 dB
Selectivity (±400 kHz) ..... 50 dB
Frequency Response ..... 30 Hz ~ 15 kHz, +0.5 dB, -3.0 dB

AM Tuner Section

Tuning Frequency Range
9kHz step ..... 531 kHz ~ 1,602 kHz
10kHz step ..... 530 kHz ~ 1,610 kHz
Usable Sensitivity (30 % mod., S/N 20 dB)
..... 16 µV / (500 µV/m)
Signal to Noise Ratio (30 % mod. 1 mV input) ..... 50 dB

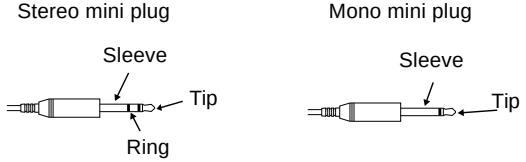
IR Receiver In Terminal

Maximum Output Current ..... 20 mA
Operating Voltage ..... 12 V
Output Impedance ..... 470 Ω

IR Out LCD Remote Terminal
Maximum Output Current ..... 20 mA
Operating Voltage ..... 5 V
Output Impedance ..... 470 Ω

SHAPE OF PLUG TO BE CONNECTED:

IR Receiver In and IR Out LCD Remote	DVD Control



IR IN/OUT SPECIFICATION:

	Terminal	
	IR Receiver In	IR Out LCD Remote
To Tip	Signal	Signal
To Ring	Ground	———
To Sleeve	+12V	Ground

General

Power consumption ..... 500 W
AC outlet
Switched ..... 2 (total 90 W max.)
Dimensions ..... W : 440mm
H : 191mm
D : 416mm
Weight (Net) ..... 16.8 kg

General

Power consumption ..... 500 W
AC outlet
Switched (except for Australia) ..... 2 (total 90 W max.)
Switched (for Australia) ..... 1 (total 90 W max.)
Dimensions ..... W : 480mm
H : 191mm
D : 416mm
Weight (Net) ..... 16.8 kg

Kenwood follows a policy of continuous advancements in development. For this reason, specifications may be changed without notice.

Full performance may not be exhibited in extremely cold locations (below 0 deg. C).

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KENWOOD

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and the space provided below. Refer to the model and serial numbers whenever you call upon your dealer for information or service on this product.

Model _____ Serial Number _____