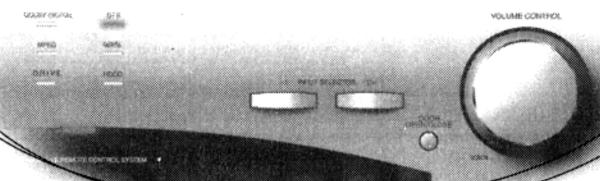
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operate and enjoy your

VR-4900/VR-4700 KRF-V9993D//

KENWOOD



Receiver

KENWOOD

Users' Guide

Using Your New Kenwood Audio-Video Receiver

Welcome to the Users' Guide for your new Kenwood Audio-Video Receiver. This manual covers three models:

The VR-4700 connects all your current audio and video components. It allows you to control them all with Kenwood's remarkable PowerTouch touch screen remote—a graphical user interface without having to use your TV!

The VR-4900 and KRF-V9993D offers all the features of the VR-4700, and adds dual-room/dual-source operation, letting you play two different A/V sources independently in two different rooms! For a match made in "dual-room heaven," add Kenwood's dual-transport CD-2280M, CD-3280M, DPF-J9010, DPF-J9020 or DPF-J9030 200-Disc CD Changer to the VR-4900 or KRF-V9993D.



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Table of Contents

Chapter One: Moving Around 1				
Wh	What's on the Front Panel of Your Kenwood Audio - Video			
Rec	eiver? 2			
Wh	at's on PowerTouch? 3			
	What's on PowerTouch's Screen? 4			
	The Quick Access Menu:4			
Ho	w is PowerTouch Powered? 5			
Но	w Do I Use PowerTouch?6			
	How Do I Move Around? 7			
	How Do I Enter Text? 8			
Ch	apter Two: Using PowerTouch9			
Но	w Do I Adjust the Sound? 10			
	Turning the Speakers On			
	Adjusting the Volume 11			
	Adjusting the Loudness (Stereo mode Only) 11			
	Adjusting the Tone (Front Left and Right Speakers Only) 12			
	Adjusting Speaker Levels			
	Muting Sound 15			
	Midnight Theater Function (Only Dolby Digital mode) 16			
	To balance volume extremes:			
	What are Listen Modes? 17			
	Input Modes:			

To Set the Input Mode manually:	22
To Set the Listen Mode manually:	23
Applying Digital Signal Processor (DSP) Effects	24
To set a DSP effect:	25
HDCD and D.R.I.V.E. Effects	27
Headphone Operation	28
How Do I Operate Devices?	29
Operating PowerTouch without Sending Commands to	the
Receiver(Operations using the SHIFT key):	30
Movie Devices	31
TV	32
VCR	36
DVD Player	37
Laser Disc Player	38
Music Devices	39
Kenwood 200-Disc CD Changer	39
Displaying Disc and Track Titles	40
Single or Rotary CD Player	45
CD-R Recorder	47
MD Recorder or Tape Deck	48
Turntable	
Second CD Player or Tape Deck	51
Tuner	52
How Do I Record (Edit Mode)?	59
Digital to Digital Recording:	
Digital to Analog Recording:	

How Do I Adjust PowerTouch's Display?	62
How Do I See PowerTouch in the Dark?	62
How Do I See PowerTouch's Screen More Clearly?	63
How Do I Turn the Beeping On or Off?	63
Using PowerTouch to Dim or Brighten the Receiver's Front Panel	
Changing the Front Panel Display Mode	
How Do I Perform Several Actions at Once?	65
Creating Macros	66
Using Macros	70
How Do I Control Home Automation Equipment?	
(VR-4900/VR-4700 and only-U.K. KRF-V9993D)	72
X-10 Home Automation	
Lutron	
Makita	77
Accessories Control	80
Chapter Three: Using PowerTouch in Multiple	
Rooms (VR-4900/KRF-V9993D)	35
How Do I Switch Control Modes?	86
Why Don't I See All My Devices?	87
How Do I Operate Devices?	88
Operating Devices in Room A	88
Operating Devices in Room B	88

Chapter Four: Troubleshooting 90		
Sound92		
I don't hear any sound at all 92		
Audio is not output only when a 96k fs compatible disc is played		
I can't hear sound from one or more of the speakers, or the sound is abnormally low		
I can't hear sound from my surround or center speakers 93		
I can hear sound only from the center speaker when Dolby Pro Logic or Dolby 3 Stereo is selected		
Sound from one (or more) of my devices is abnormally loud or soft		
(VR-4900 and KRF-V9993D only) I can't hear any sound in Room B		
I can't hear sound from some of my laser discs 95		
There wasn't any sound recorded on tapes made on my VCR or tape deck		
The initial sound is intermittent or non-existent when I start to play from a Dolby Digital, DTS or MPEG source 95		
With a Dolby Digital program, the loud sounds aren't very loud and the quiet sounds aren't very quiet		
All I hear is loud static when I play DTS discs 96		
I hear a hum when I select the PHONO input 96		
Audio is not output only when a 96 kfs compatible disc is played 96		
Sound it intermittent 96		
Video 96		
I can't see the program I'm playing on the TV There wasn't any video output to my VCR when I recorded		

PowerTouch 97
I don't see icons for all my devices 97
I don't see icons for all the devices I set up
When I select a device icon, I don't see any commands
My PowerTouch is slow to respond—sometimes I have to press buttons or select commands several times 97
My PowerTouch is not responding 98
My PowerTouch is beeping. What does that mean? 98
PowerTouch does not "learn" new commands or functions
I want to clear all the items in PowerTouch and make it to the factory-set default condition
Receiver/Tuner 99
Receiver/Tuner
My receiver won't turn on and the STANDBY indicator is
My receiver won't turn on and the STANDBY indicator is flashing
My receiver won't turn on and the STANDBY indicator is flashing
My receiver won't turn on and the STANDBY indicator is flashing
My receiver won't turn on and the STANDBY indicator is flashing

Chapter One: Moving Around

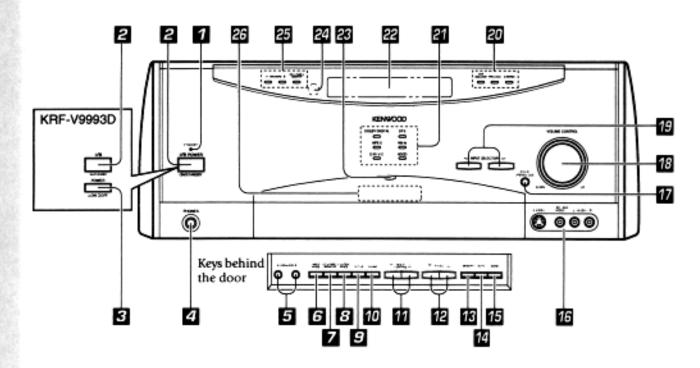
Welcome to the Kenwood VR-4900/VR-4700/KRF-V9993D *Users' Guide*. This chapter explains the keys and functions you can find on the front of the receiver and on the PowerTouch. The chapter also includes an explanation of how to navigate the convenient graphical display on your new PowerTouch.

It includes the following sections:

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

	page 2
What's on PowerTouch?	page 3
How is PowerTouch Powered?	page 5
How Do I Use PowerTouch?	page 6

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



- 1. STANDBY indicator light
- POWER ON/STANDBY key (VR-4900/VR-4700)
 ON STANDBY key
 - (KRF-V9993D)
- POWER ON / OFF switch (KRF-V9993D)
- 4. PHONES jack

- 5. SPEAKERS A/B key
- INPUT MODE key
- 7. CD 2/TAPE 2 MONITOR key
- 8. LISTEN MODE key
- 9. SET UP key
- 10. SOUND key

- 11. MULTI CONTROL (Up/Down) keys
- 12. P. CALL (Up/Down) keys
- 13. MEMORY key
- 14. AUTO key
- 15. BAND key
- 16. AV-AUX input jacks
- 17. DOOR OPEN/CLOSE key
- 18. VOLUME CONTROL knob
- 19. INPUT SELECTOR keys
- 20. Indicators

CLIP INDICATOR

PRO LOGIC

3 STEREO

21. Indicators

DTS / 96 k fs / HDCD

DOLBY DIGITAL / MPEG

D. R. I. V. E.

- 22. DISPLAY
- 23. 2-way communication indicator
- 24. Infrared remote sensor
- Indicators

SPEAKER A/B

CD 2/TAPE 2 MONITOR

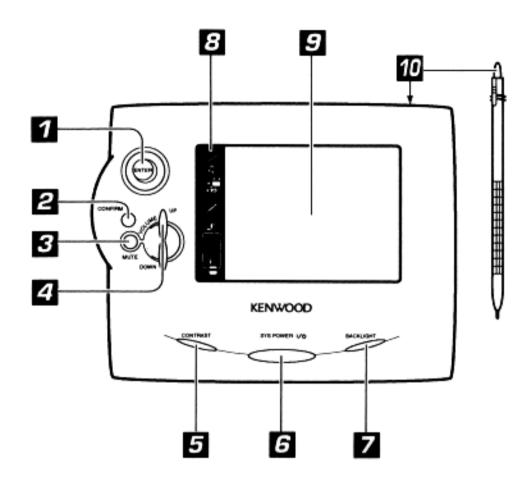
26. Infrared remote transmitter

Keys 5 to 15 are located behind the door.

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.

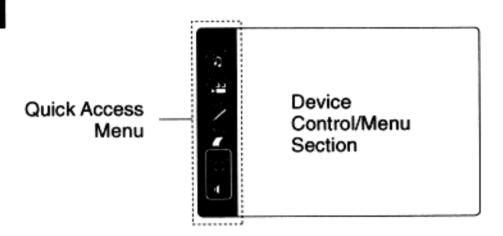
What's on PowerTouch?



- 1. Joystick (see page 7)
- 2. Confirm button
- 3. Mute button (see page 15)
- 4. Volume up/down button (see page 11)
- Contrast button
- 6. On/Standby button
- Backlight button (see page 62)
- 8. Quick Access menu
- 9. Touch screen display
- 10. Stylus (stored on top edge)

What's on PowerTouch's Screen?

PowerTouch's LCD display screen is divided into two sections: the Quick Access Menu and the Device Control/Menu Section. Use the stylus to touch the buttons in each area.



PowerTouch also includes a QuickTour, which you can use to familiarize yourself with operating devices using the touch screen.

Touch quick to familiarize yourself with operating devices using the touch screen. QuickTour provides a short narration for each major area that will automatically clear and move to the next topic. When it is finished it returns you to the main menu.

The Quick Access Menu:

The buttons in the Quick Access Menu are always available, regardless of what else is displayed on the touch screen. Touch these buttons for instant access to:

- Music device controls such as CD players or the radio tuner
- Movie device controls such as DVD players or VCRs
- Editing features
- Setup features
- Listen modes such as stereo, Dolby Digital or DTS
- · Sound controls, such as loudness or "Midnight" mode

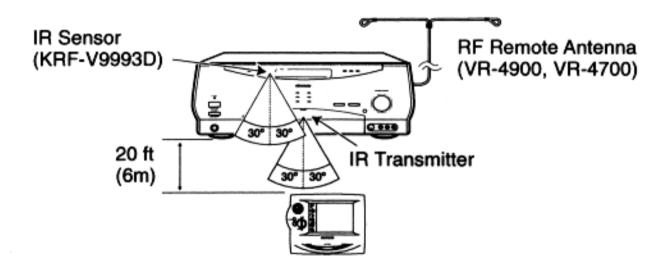
The Device Control/Menu Section: The device control section provides the same kinds of access as the Quick Access menu, but with more structure. Use the Main menu to navigate through the feature menus to exactly the feature or device you want to use.

Using these features, your Kenwood PowerTouch can store and display a large number of tasks, making it easier for you to access features. You get all the advantage of on-screen graphical display, without having to use a TV screen!

For more information on using these icons, see "How Do I Use PowerTouch?" on page 6.

How is PowerTouch Powered?

Your new PowerTouch uses six AA (LR6) alkaline batteries and operates in the following range:



If you use PowerTouch outside of this range, PowerTouch's display may show incorrect information, or may not operate.

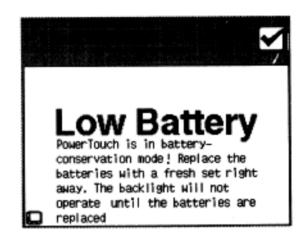
(VR-4900/VR-4700): The remote control signal received by the main unit is only the RF signal.

The control distance of the RF remote signal is about 10 meters provided there is no obstacle.

(KRF-V9993D): IR signals are transmitted and received.

As you use PowerTouch, be aware of the following:

When PowerTouch's operating range gets shorter or PowerTouch displays a low battery alarm, replace all 4 batteries (VR-4900, VR-4700) or 6 batteries (KRF-V9993D). (see "Installing the Batteries" on page 32 of the Connections and Setup Guide.)



 Do not install the receiver where direct sunlight or high-frequency fluorescent lighting can shine directly into the infrared remote sensor. This can limit PowerTouch's operating range.

How Do I Use PowerTouch?

Use your new PowerTouch to control your new receiver and most devices attached to it. PowerTouch appears and functions a little differently from traditional remotes. Because it can control so many different devices, it displays a separate set of controls for each device on an LCD screen.

Only devices you have identified and connected to the receiver appear as buttons on the touch screen. If you are "missing" a device's icon on the movies or music screen, make sure you have identified the device to the PowerTouch. For more information on identifying devices to the PowerTouch, see "Chapter Two: Setting Up PowerTouch" in the Connections and Setup Guide.



Do not block the IR transmitter on the front panel of the receiver or on PowerTouch. Even a brief blockage while it is transmitting (such as someone walking by) can cause the communication and feedback to become erratic temporarily. If this happens, press CONFIRM and PowerTouch will resume normal operation (you might need to reenter the interrupted command).

How Do I Move Around?

- Press any button or touch the screen to activate PowerTouch's display.
- Use the stylus to touch the menu or control button you want to use.

Operation using the joystick:

Use the joystick to adjust the contrast of the PowerTouch screen. For details, see "To adjust the contrast" on page 63.

Also use the joystick when using the OSD (On-Screen Display) of the DVD or LD player. (Certain functions may be restricted with some devices.)

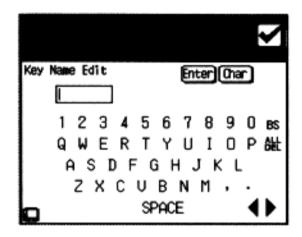
- Display a menu containing the OSD function.
- Press the OSD button or Menu. The menu is displayed on the TV monitor screen.
- Select an item by tilting the joystick up/down or to the left/right.
- Press the joystick's ENTER button to enter the selected item.
 (With certain models, the selected item may also be established with the other buttons.)

How Do I Enter Text?

Many of the control menus allow you to assign your own names to list items (such as radio stations, CD titles, etc.).

To enter text for names:

- Access the control screen with the item name you want to change.
 You have accessed the appropriate screen if Title or Rane appears on the screen.
- Touch Title or Name :



- Use the stylus to select characters from the keyboard.
- Touch to access to lowercase characters. Touch it again to access special characters (such as @, !, &, etc.). Touch it a third time to return to uppercase characters.
- Touch ◀ or ▶ to move back and forth between the characters.
- Touch B\$ to clear the last character you entered. Touch BE to delete all the characters in the line.

Chapter Two: Using PowerTouch

Your new receiver comes with the easiest—and most innovative—remote you've ever seen. Its palm-sized illuminated screen displays clear icons and menus. Because PowerTouch maintains two-way communication with your receiver, it shows the result of your action right on its screen.

PowerTouch is a universal remote that can control hundreds of devices, and is the first of its kind to offer infra-red compatibility with X-10, Lutron lighting, and Makita drapery control systems, making it perfect for controlling even the most elaborate home theater system. (VR-4900 and VR-4700 only)

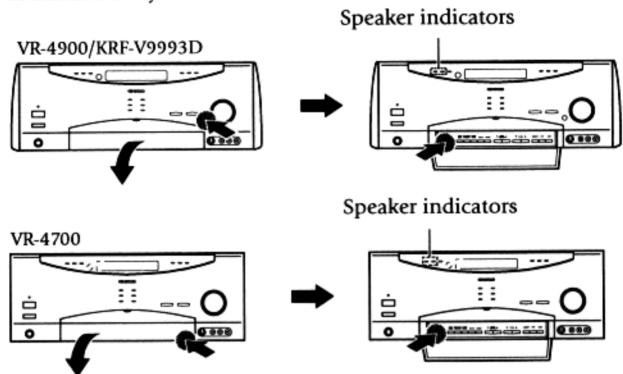
This chapter contains the following sections:

How Do I Adjust the Sound?	page 10
How Do I Operate Devices?	page 29
Movie Devices	page 31
Music Devices	page 39
How Do I Record? (Edit Mode)	page 59
How Do I Adjust PowerTouch's Display?	page 62
How Do I Perform Several Actions at Once?	page 65
How Do I Control Home Automation Equipment?	nage 72

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

Turning the Speakers On

To turn on the front A (Room A with the VR-4900/KRF-V9993D) speakers, press the **DOOR OPEN/CLOSE** key (VR-4900/KRF-V9993D) or press the lower part of the door (VR-4700) to open the door and press the **SPEAKERS A** key inside the door.



To turn on the front B (Room B with the VR-4900/KRF-V9993D) speakers, press the **SPEAKERS B** key located in the door of the receiver's front panel. The lighting of a **SPEAKERS** (A or B) lamp indicates that the corresponding set of speakers is on.

VR-4900/KRF-V9993D: If you select SPEAKERS B (Room B) while listening to a surround mode in Room A, the sound in Room A will automatically revert to stereo. While SPEAKERS B is on surround made cannot be selected.

VR-4700: If you select SPEAKERS B while listening to a surround mode, the sound will automatically revert to stereo. While SPEAKERS B is on surround made cannot be selected.

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

Adjusting the Volume

Use one of the following methods to adjust the volume.

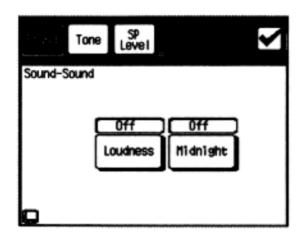
- Turn the volume knob on the front panel of the receiver.
- Press in the appropriate direction on PowerTouch.

Adjusting the Loudness (Stereo mode Only)

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. Touch (sound) on the Quick Access menu to open the Sound menu:

If the opened menu is not the Sound menu, touch Sound



- 2. Touch Loudness to turn the loudness setting on or off.
- Touch to return to the previous menu or touch one of the Quick Access menu buttons to proceed to the next operation.

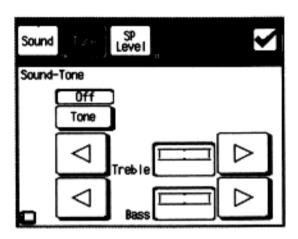
Operation on the receiver:

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

Adjusting the Tone (Front Left and Right Speakers Only)

Use the Sound menu to adjust the bass or treble tone of your front left and right speakers manually. In addition to setting bass and treble tone adjustment values, you can completely bypass the tone control circuitry for a purer sound.

- Touch (sound) on the Quick Access menu to open the Sound menu:
- 2. Touch to open the Tone menu:



- Touch Tone to turn the tone settings on or off.
- 4. If you selected "on" in the above, touch the left □ or right □ arrow next to a tone setting (Treble or Bass) to adjust it. A readout □ between the arrows shows the current setting.
- Touch to return to the previous menu or touch any Quick Access menu button to access that menu.

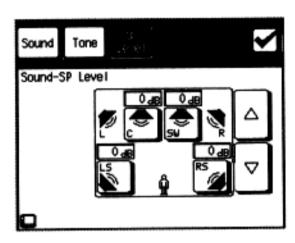
Operation on the receiver:

- Press the SOUND key in the door repeatedly until TONE OFF or ON is displayed.
- Press the MULTI CONTROL (△/▽) key to display TONE ON (or OFF if desired so).
- When ON is selected above and the SOUND key is pressed again, the BASS setting menu appears.
 - When OFF is selected above, the LOUDNESS setting menu appears.
- 4. Adjust **BASS** level using the **MULTI CONTROL** (\triangle/∇) key.
- 5. Press the SOUND key.
- When the TREBLE setting menu appears, adjust the treble in the same way as above. To exit from setting, press the SOUND key 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, 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 PowerTouch in the Connections and Setup Guide.

- Touch (sound) on the Quick Access menu to open the Sound menu:
- 2. Touch (Sp Level) to open the SP Level menu:



Although icons for the front speakers appear here, notice that they do not have buttons. They're here for a visual reference; you cannot change their level.

- Select a speaker by touching its button. You have selected a speaker when its button darkens.
 - The two surround speakers (LS and RS) cannot be adjusted independently between each other.
- Touch the up △ or down arrow ▽ to adjust the volume of the speaker(s) you chose.
- Touch to return to the previous menu or touch any Quick Access menu button to access that menu.

The subwoofer level can be adjusted between +10 dB and -20 dB, and other speaker level can be adjusted between +10 dB and -10 dB.

Operation on the receiver:

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

C: center speaker

LS/RS: surround speakers

SW: subwoofer

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

These settings automatically return to the level you adjust on Chapter Two of Connection and Setup Guide whenever you select a different source device or turn the receiver's power off.

Muting Sound

Use one of the following methods to temporarily mute the sound:

Press MUTE button on PowerTouch.

A "Mute On" message appears on the LCD screen for 3 seconds, then disappears. The MUTE indicator blinks during muting.

Use one of the following methods to cancel muting:

- Press either Mute button again.
- Adjust the volume control on either the receiver or PowerTouch.

A "Mute Off" message appears on the LCD screen for 3 seconds, then disappears.

The MUTE indicator on the receiver panel goes off.

Midnight Theater Function (Only Dolby Digital mode)

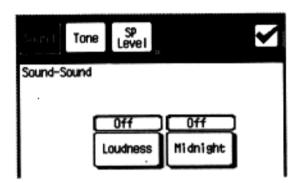
Any time you don't want to experience the loud and soft volume extremes of recorded sound (for example, late at night), use midnight Theater function to reduce volume extremes. This feature keeps loud, dramatic sound from being too loud (perhaps disturbing family members or neighbors) while ensuring 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 that has been encoded with special compression data.

To balance volume extremes:

1. Touch (sound) on the Quick Access menu to open the Sound menu:

If the opened menu is not the Sound menu, touch



- 2. Touch until the balancing sounds right to you:
 - · OFF for normal balancing
 - · 1 for quieter balancing
 - 2 for quietest balancing (the least difference between the loudest and quietest sound)
- Touch to return to the previous menu or touch one of the Quick Access menu buttons to proceed to the next operation.

Operation on the receiver:

- Press the SOUND key in the panel door repeatedly until MIDNIGHT OFF, 1 or 2 is displayed.
- Press the MULTI CONTROL (△/▽) key to select 1, 2 or OFF, then
 press the SOUND key repeatedly until returning to the previous menu.

What are Listen 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.

- Stereo: Stereo listen mode provides standard stereo sound to the front left and right speakers.
- Dolby 3 Stereo: Use Dolby 3 Stereo for systems that do not have surround speakers. When in the Dolby 3 Stereo mode, surround information is redirected to the front left and right speakers. This mode is designed for use with Dolby Surround sources, but can also improve sound imaging and definition for programs that are not Dolby Surround encoded.
- Dolby Pro Logic: Dolby Pro Logic is a decoding process which provides theater-like surround sound from Dolby Surround encoded sources (such as videotape and LaserDisc software that are marked with the Dolby Surround logo). It offers excellent sound movement across the front of the room and a surround ambiance that seems to immerse you in a movie. Your receiver is equipped with a Dolby Pro Logic surround decoder to let you enjoy the wide variety of currently available Dolby Surround home video software.
- 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 and DTS). You can select the ambience of an Arena, Jazz Club, Stadium, Cathedral or Theater, and then modify the parameters to 'fine-tune' the environment to your taste. (See "Applying Digital Signal Processor (DSP) Effects" on page 24 for details about making DSP adjustments.)

- 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.
- 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.

• 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 muchimproved 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).



You cannot select the Input Analog mode if you are playing DTS-encoded media.

You cannot listen to DTS-encoded media in Room B. (VR-4900/KRF-V9993D only)

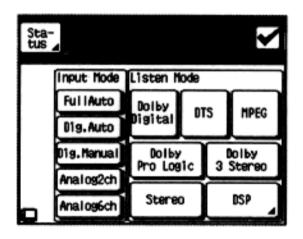
When playing DTS-encoded media, wait until "DTS" appears on the receiver display before proceeding.

The listen mode is fixed to Stereo during playback of 96k fs signals.

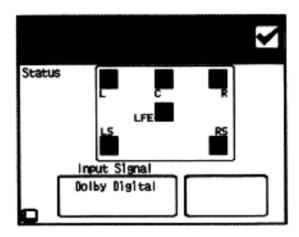
Your receiver can detect and switch between these formats automatically.

To check the Surround Play status:

Touch (listen mode) on the Quick Access menu to open the Listen Mode menu:



2. Touch tus. This displays the Input Sound Status screen, which shows the signal being displayed.



During Dolby Digital, MPEG or DTS playback, the program's encoded channel configuration is shown using the L, C, R, LS, RS, S and LFE icons.

 Touch to return to the previous menu or touch one of the Quick Access menu buttons to proceed to the next operation.

Input Modes:

The listen mode should usually be set to Full Auto. However, the listen mode can also be set manually when you want to fix the inputs as analog signals, etc. (see "To Set the Input Mode manually" on page 22).

FULL AUTO (Full Auto) : The receiver detects the input signal format automatically and switches itself accordingly. Usually select this mode.

DIGITAL-AUTO (Dig.Auto)

: The inputs are fixed at digital signals and the listen modes are switched automatically.

(Dig.Manual)

DIGITAL-MANUAL: The inputs are fixed at digital signals and the listen modes should be switched manually by the user.

> The DIGITAL-AUTO and DIGITAL-MANUAL modes are switched automatically to the FULL AUTO mode when an input is switched or the receiver is set to OFF.

ANALOG (Analog2ch) : The inputs are fixed at the analog 2-channel inputs.

6CH INPUT (Analog6ch) : 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.

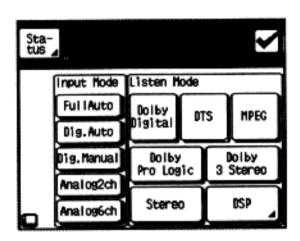


- If you turn off the receiver or select a different source device the DIGI-TAL-AUTO or DIGITAL-MANUAL is reset to "FULL AUTO".
- When you use DIGITAL-AUTO or FULL AUTO mode with certain DVD and LD players, performing operations such as "Skip" or "Stop" may momentarily interrupt the output. This could switch the "Listen Mode" automatically to the surround mode intended for the input signal if you have manually selected a different listen mode.

To Set the Input Mode manually:

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**. To do so, select [Analoge ch].

Touch (listen mode) on the Quick Access menu to open the Listen Mode menu.



2. Select a Input Mode you want.

When you are finished listening to analog media, set the receiver's input back to digital. To do so, select the Full Auto.

Operation on the receiver:

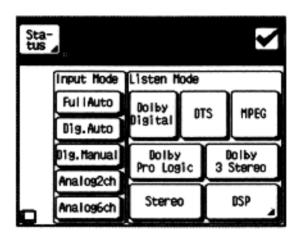
 Press the INPUT MODE key in the door repeatedly until FULL AUTO, DIGITAL-AUTO, DIGITAL-MANUAL, ANALOG or 6CH INPUT is displayed.



See Chapter 3: Using PowerTouch in Multiple Rooms for more information about the analog inputs. (VR-4900/KRF-V9993D only)

To Set the Listen Mode manually:

Touch (listen mode) on the Quick Access menu to open the Listen Mode menu.



Select a Listen Mode you want.

Operation on the receiver:

Press the LISTEN MODE key inside the door repeatedly until the listen mode to be set is displayed.

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



- The available surround modes may be restricted depending on the input signal. DTS, Dolby Digital and MPEG are only available if a DTS, Dolby Digital or MPEG signal is present at the digital input.
- In FULL AUTO or DIDITAL-AUTO mode, if the incoming signal is not Dolby Digital, DTS or MPEG, the listen mode reverts to the last listen mode you selected for that input.
- If the speakers are turned off (i.e., because you are listening on headphones), you cannot select Dolby Pro Logic or Dolby 3 Stereo.

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 spoiling the sound quality of the original music or video source.

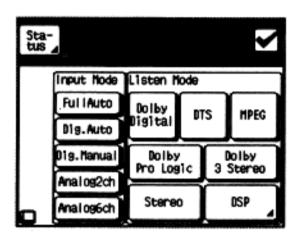
The DSP mode lets you add the atmosphere of an arena, jazz club, stadium, cathedral or theater from any PCM or analog input source. These modes are particularly effective when used with stereo program sources like CD, television, and FM radio. You might enjoy trying the STADIUM or ARENA mode the next time you watch a sporting event or concert.

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

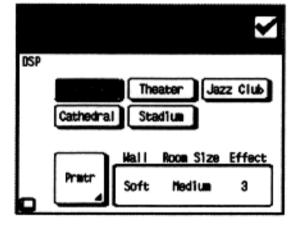
- The WALL TYPE parameter lets you adjust the brightness of the sonic environment according to your preference.
- The ROOM SIZE parameter lets you adjust the size of the sonic environment according to your preference.
- The EFFECT level lets you adjust the amount of DSP "presence" in the sonic environment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

To set a DSP effect:

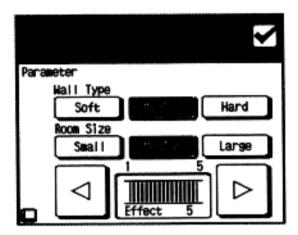
Touch (listen mode) on the Quick Access menu to open the Listen Mode menu:



2. Touch Sp .



- 3. Touch a DSP mode icon button.
- 4. (Optional) Touch to adjust the wall type, room size, and effect level to your taste.



- Wall Type changes the quality of the simulated walls.
- · Room Size switches the simulated room size.
- Effect Level adjusts the amount of DSP presence in the overall sound. Lower numbers decrease the amount of presence, higher numbers increase it.
- Touch to return to the previous menu or touch one of the Quick Access menu buttons to proceed to the next operation.

Operation on the receiver:

Press the LISTEN MODE key inside the door repeatedly until the listen mode to be set is displayed. The DSP can be set to Arena, Jazz Club, Stadium, Cathedral or Theater.

Fine adjusting the DSP effects on the receiver:

- Press the SOUND key inside the door to select Wall Type.
- Press the MULTI CONTROL (▽/△) key to select the desired type.
- Select the types of Room Size and Effect Level in the same way as above.
- 4. Press the SOUND key 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 HDCDcompatible CD player is usually required to exhibit the full characteristics of the HDCD, this receiver is capable of reproducing high-quality HDCH signals by connecting a CD player through digital connection, even when 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.



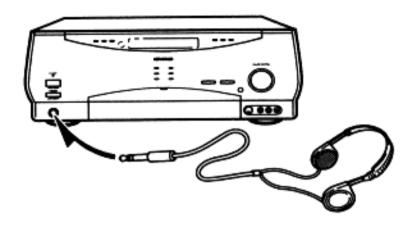
HDCD and D.R.I.V.E. is effective only at the time of digital input stereo or DSP mode.

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, 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.

Headphone Operation

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



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

Your PowerTouch makes it easy for you to control the different devices connected to your receiver. Its easy-to-use LCD screen provides a choice of command buttons similar to those found on the devices' own remotes. Use these buttons to control your home entertainment equipment by following these easy steps:

- Choose the menu containing the device you want to use (Movie or Music).
- Touch the icon button for the device you want to operate from PowerTouch's control screen.
- Touch a button on the device's control screen.

The rest of this manual assumes that you have connected your home entertainment devices and identified those devices to PowerTouch. If you have not done so, follow the instructions under "Identifying Devices For PowerTouch Control" on page 37 of the Connections and Setup Guide before reading any further in this manual. If you do not, you will not see controls for any device except for the factory-defined devices, such as the tuner and the home automation devices.

As you use PowerTouch, remember that this manual only gives instructions for operating PowerTouch with a particular device. It is not intended to explain how your devices work—for that information see the manuals that came with your devices.

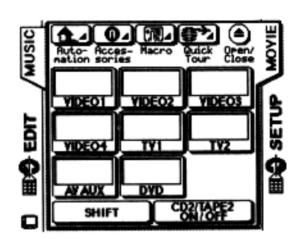
Although the receiver has been designed to function in combination with multiple devices, all or some of the operations may not be available with certain types of devices.

Operating PowerTouch without Sending Commands to the Receiver(Operations using the SHIFT key):

The transmission of operation signals from PowerTouch to the receiver can be disabled with the Movie or Music menu. This makes it possible, for example, to turn the VCR ON while listening to a CD.

Procedure:

1. Touch (movie) or (music) in the Quick Access menu to display the Movie or Music menu.



- 2. Touch SHIFT
- 3. Touch the desired operation button within 5 seconds after above.

By touching the SHIFT button and executing an operation, any device can be controlled without sending the command signal to the receiver. The above operation is not available with devices connected using the KENWOOD system control cable.

Movie Devices

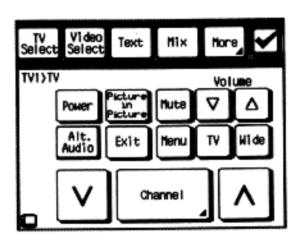
Use this menu to operate devices that provide video, such as DVD players, VCRs, etc. This menu controls the following (note which device you have connected to the jack in the space provided):

I should use this button	to control this device (use this space to note your devices. The device icons will also appear in the button after you identify a device for it)
VIDEO1	
YIDEO2	
VIDEO3	
VIDEO4	
TVI	
TV2	
DYD	
AYAUX	

TV

To operate a standard TV:

- Touch (movie) on the Quick Access menu.
- Touch the TV icon button to which you assigned the TV. This accesses the TV controls:



Use this screen as your TV remote. The available buttons may vary depending on the setup code you assigned to this icon.

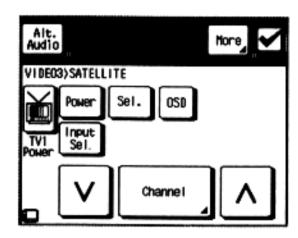
Touch [more] (more) to access any customized commands you have taught PowerTouch for this device and to access this device's macros. Touch the command or macro name to use it.

For more information on teaching commands to PowerTouch, see "What if my device does not work with any of the codes on the list? What if I Want PowerTouch to Control Additional Functions?" on page 39 of the Connections and Setup Guide. For more inforamtion on device macros, see "How Do I Perform Several Actions at Once?" on page 65 of this manual.

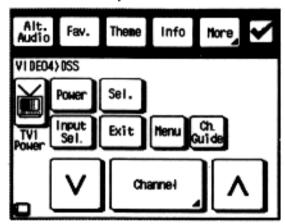
 Touch (movie) on Quick Access menu to return to the Movie menu.

To operate satellite TV (DSS or tuner):

- 1. Touch [52] (movie) on the Quick Access menu.
- Press the Video icon button to which you assigned the satellite TV receiver. This accesses the satellite controls:



For VR-4900/VR-4700



Use one of these screens as your satellite TV remote (depending on the service you receive). The available buttons may vary depending on the setup code you assigned to this icon.

Touch hore to access any customized commands you have taught PowerTouch for this device and to access this device's macros. Touch the command or macro name to use it.

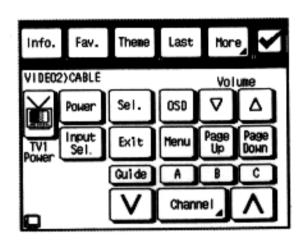
For more information on teaching commands to PowerTouch, see "What if my device does not work with any of the codes on the list? What if I Want PowerTouch to Control Additional Functions?" on page 39 of the Connections and Setup Guide. For more inforamtion on device macros, see "How Do I Perform Several Actions at Once?" on page 65 of this manual.

4. Touch Movie button on Quick Access menu to return to the Movie

menu.

To operate cable TV:

- Touch (movie) on the Quick Access menu.
- Touch the TV or input icon button to which you assigned the cable TV tuner. This accesses the cable TV controls:



Use this screen as your cable TV remote. The available buttons may vary depending on the setup code you assigned to this icon.

Touch to access any customized commands you have taught PowerTouch for this device and to access this device's macros. Touch the command or macro name to use it.

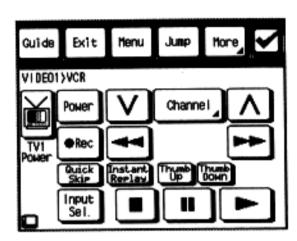
For more information on teaching commands to PowerTouch, see "What if my device does not work with any of the codes on the list? What if I Want PowerTouch to Control Additional Functions?" on page 39 of the Connections and Setup Guide. For more inforamtion on device macros, see "How Do I Perform Several Actions at Once?" on page 65 of this manual.

 Touch (movie) on Quick Access menu to return to the Movie menu.

VCR

To operate the VCR:

- Touch (movie) on the Quick Access menu.
- Touch the Video icon to which you assigned the VCR. This accesses the VCR controls:



Use this screen as your VCR remote. The available buttons may vary depending on the setup code you assigned to this icon.

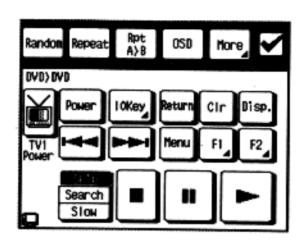
Touch [more] (more) to access any customized commands you have taught PowerTouch for this device and to access this device's macros. Touch the command or macro name to use it.

For more information on teaching commands to PowerTouch, see "What if my device does not work with any of the codes on the list? What if I Want PowerTouch to Control Additional Functions?" on page 39 of the Connections and Setup Guide. For more inforamtion on device macros, see "How Do I Perform Several Actions at Once?" on page 65 of this manual.

4. Touch (movie) on Quick Access menu to return to the Movie menu.

DVD Player

- 1. Touch (movie) on the Quick Access menu.
- Select the icon you assigned to your DVD player. This accesses the DVD controls:



Use this screen as your DVD player remote. The available buttons may vary depending on the setup code you assigned to this icon.

Touch [more] (more) to access any customized commands you have taught PowerTouch for this device and to access this device's macros. Touch the command or macro name to use it.

For more information on teaching commands to PowerTouch, see "What if my device does not work with any of the codes on the list? What if I Want PowerTouch to Control Additional Functions?" on page 39 of the Connections and Setup Guide. For more inforamtion on device macros, see "How Do I Perform Several Actions at Once?" on page 65 of this manual.

4. Touch (movie) on Quick Access menu to return to the Movie menu.

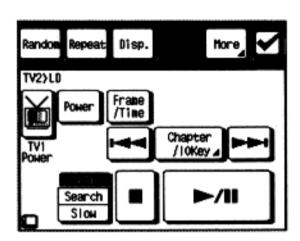
If you are listening to a DVD AUDIO music disc, you will need to switch the input from Digital Input to Analog 6ch Input. For more information on switching input, see "To set the Input mode manually" on page 22.

Laser Disc Player

To operate a laser disc player:

- 1. Touch [22] (movie) on the Quick Access menu.
- Select the icon you assigned to the laser disc player. This accesses the laser disc controls:

The figure shows a typical example.



Use this screen as your laser disc player remote. The available buttons may vary depending on the setup code you assigned to this icon.

Touch [more] (more) to access any customized commands you have taught PowerTouch for this device and to access this device's macros. Touch the command or macro name to use it.

For more information on teaching commands to PowerTouch, see "What if my device does not work with any of the codes on the list? What if I Want PowerTouch to Control Additional Functions?" on page 39 of the Connections and Setup Guide. For more inforamtion on device macros, see "How Do I Perform Several Actions at Once?" on page 65 of this manual.

 Touch (movie) on Quick Access menu to return to the Movie menu.

Music Devices

Use this menu to operate devices that provide audio only, such as CD players, the tuner, etc. This menu controls the following (note which device you have connected to the jack in the space provided):

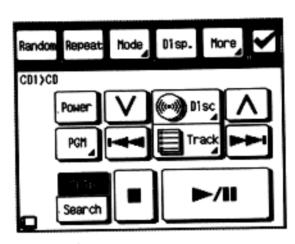
I should use this icon	to control this device (use this space to note your devices)
TUNER (((;))) TUNER	
CDI	
MO/TAPE1	
PHONO	
CD-R	
CD2/TAPE2	

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 receiver for display on PowerTouch's screen. Others can play 2 different CDs in 2 different rooms at the same time with the VR-4900/KRF-V9993D. You can easily activate all these features using just a few of PowerTouch's buttons.

To play CDs using PowerTouch:

- Touch (music) on the Quick Access menu.
- 2. Touch button . This accesses the CD controls:



Use this screen as your CD remote.

Touch [more] (more) to access any customized commands you have taught PowerTouch for this device and to access this device's macros. Touch the command or macro name to use it.

For more information on teaching commands to PowerTouch, see "What if my device does not work with any of the codes on the list? What if I Want PowerTouch to Control Additional Functions?" on page 39 of the Connections and Setup Guide. For more inforamtion on device macros, see "How Do I Perform Several Actions at Once?" on page 65 of this manual.

4. Touch (music) on Quick Access menu to return to the Music menu.

For more information on operating a CD player from another Room, see "Chapter Three: Using PowerTouch in Multiple Rooms". (VR-4900/KRF-V9993D only)

Displaying Disc and Track Titles

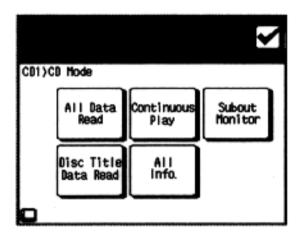
Kenwood 200-Disc CD Changers allow you to easily search for and select a particular CD or song by title from any disc you've loaded into the unit. PowerTouch can display these disc and track titles on its LCD display, allowing you to choose discs and songs by title in a few simple steps.



You have to assign disc and track titles to the discs in your CD player before you can transfer them to PowerTouch. 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 PowerTouch:

- 1. Touch (music) on the Quick Access menu.
- 2. Touch (CD1).
- 3. Touch hose. This accesses the disc mode commands:



- 4. If you haven't already done so on the CD changer, touch reads all of the disc and track title information into the CD changer's memory.
- 5. Set PowerTouch down so that its IR transmitter window is aiming at the receiver's IR transmitter window. Select [Black Road] . Do not move PowerTouch 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 PowerTouch, and you may move PowerTouch again. PowerTouch's memory now contains the disc titles of every CD in the changer with title information.

- 7. Touch (music) on Quick Access menu to return to the Music menu.

To read the loaded track titles and store them in PowerTouch:

- Make sure you have followed the previous instructions to read disc data.
- Touch (music) on Quick Access menu.
- 3. Touch Con.
- If you haven't already done so on the CD changer, touch leads all of the disc and track title information into the CD changer's memory. Touch
 ✓ to return to the CD controls.
- Select the disc you want to play and touch to open the track controls.
- 6. Set PowerTouch down so that its IR transmitter window is aiming at the receiver's IR transmitter window. Touch Reserved. Do not move PowerTouch while it is reading data.

This process may take some time, depending on how many CDs you have loaded. You will see the track titles on the PowerTouch when it is finished reading data.

- Touch to return to the CD controls.
- 8. Touch (music) on Quick Access menu to return to the Music menu.

Entering Disc and Track Titles:

You can also use PowerTouch to enter disc or track titles, if they are not already stored on the changer. The titles you add are stored in memory on both PowerTouch and the changer.

To enter disc or track titles:

- 1. Touch (music) on the Quick Access menu.
- 2. Touch Con
- 3. Stop playing a CD. (if it is playing)
- Touch or . This accesses the appropriate control commands.
 - If you pressed ., you will be entering track titles for the currently selected disc.
- Touch the disc or track name you want to change. See "How Do I Enter Text" on page 8 for more information on changing names.
- 6. Touch î .
- 7. Repeat steps 5 and 6 for each title you want to store.
- Touch to return to the disc or track controls. Touch it again to return to the CD controls.
- 9. Touch (music) on Quick Access menu to return to the Music menu.



If you rearrange or add new CDs to the changer, you will need to repeat both the disc and track read process. Otherwise, disc information is stored in PowerTouch permanently.

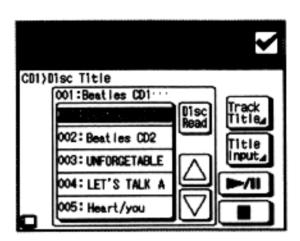
The track title information is not stored permanently in PowerTouch. Each time you select a CD to play you have to download its track title information.

Title reading by PowerTouch is not possible for the following models.

Model: CD-2280M, CD-2260M, DPF-J9010 and DPF-J7010.

To play discs and tracks by title:

- Touch (music) on the Quick Access menu.
- 2. Touch
- 3. Touch . This accesses the disc commands:

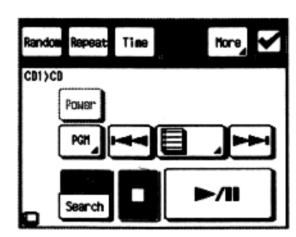


- Titles of all discs in the changer are displayed in numerical order.
- 5. Use the up or down arrow to scroll through the discs numerically, then touch the disc title you want to play.
- 7. (Optional) Touch Title. The track titles for that disc are displayed in numerical order.
- If you want to play the disc starting from a particular track, use the up
 or down arrow to scroll through the track titles, then touch
 the track title.
- When you've highlighted the track you want to begin playing, touch
- Touch to return to the CD controls.
- 11. Touch (music) on Quick Access menu to return to the Music menu.

Single or Rotary CD Player

To operate a single CD player:

- 1. Touch (music) on the Quick Access menu.
- 2. Touch _____. This accesses the CD controls:



Use this screen as your CD player remote. The available buttons may vary depending on the setup code you assigned to this icon.

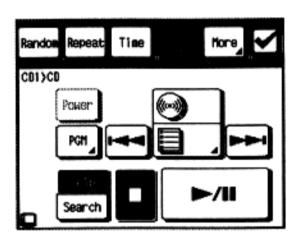
Touch to access any customized commands you have taught PowerTouch for this device and to access this device's macros. Touch the command or macro name to use it.

For more information on teaching commands to PowerTouch, see "What if my device does not work with any of the codes on the list? What if I Want PowerTouch to Control Additional Functions?" on page 39 of the Connections and Setup Guide. For more inforamtion on device macros, see "How Do I Perform Several Actions at Once?" on page 65 of this manual.

4. Touch (music) on Quick Access menu to return to the Music menu.

To operate rotary CD players:

- Touch (music) on the Quick Access menu.
- 2. Touch CD controls:



Use this screen as your CD player remote. The available buttons may vary depending on the setup code you assigned to this icon.

Touch hore button to access any customized commands you have taught PowerTouch for this device and to access this device's macros. Touch the command or macro name to use it.

For more information on teaching commands to PowerTouch, see "What if my device does not work with any of the codes on the list? What if I Want PowerTouch to Control Additional Functions?" on page 39 of the Connections and Setup Guide. For more inforamtion on device macros, see "How Do I Perform Several Actions at Once?" on page 65 of this manual.

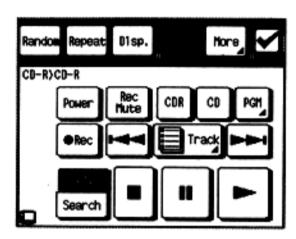
4. Touch (music) on Quick Access menu to return to the Music menu.

CD-R Recorder

To play CD-R Recorder:

- 1. Touch (music) on the Quick Access menu.
- 2. Touch CD-R

This accesses the CD-R Recorder controls:

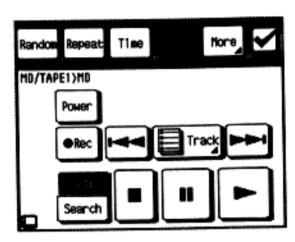


- Use this screen as your CD-R Recorder player remote. The available buttons may vary depending on the setup code you assigned to this icon.
- 4. Touch (Music) on Quick Access menu to return to the Music menu.

MD Recorder or Tape Deck

To operate an MD recorder:

- Touch (music) on the Quick Access menu.
- 2. Touch This accesses the MD recorder controls:



Use this screen as your MD recorder remote. The available buttons may vary depending on the setup code you assigned to this icon.

Touch hore to access any customized commands you have taught PowerTouch for this device and to access this device's macros. Touch the command or macro name to use it.

For more information on teaching commands to PowerTouch, see "What if my device does not work with any of the codes on the list? What if I Want PowerTouch to Control Additional Functions?" on page 39 of the Connections and Setup Guide. For more inforamtion on device macros, see "How Do I Perform Several Actions at Once?" on page 65 of this manual.

4. Touch (music) on Quick Access menu to return to the Music menu.

Entering Disc and Track Titles:

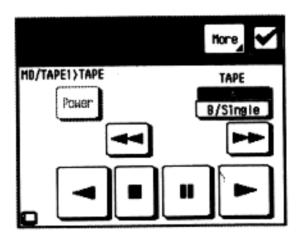
If you have Kenwood DM-2070 or DMF-9020, you can also use PowerTouch to enter disc or track titles.

To enter disc or track titles:

- 1. Touch (music) on the main or Quick Access menu.
- 2. Touch
- 3. Stop playing an MD. (if it is playing)
- 4. Touch Titie.
- 5. See "How Do I Enter Text" on page 8 and enter a title.
- 6. Touch Input .
- 7. While watching the MD recorder's display, use or on the Mini Disc Title menu to select where you want to enter the title to (either disc title or track title). If you want to enter a track title, choose the track number you want to assign a name for.
- 8. Touch 🛜 .
- Touch to return to MD controls.
- 10. Touch (music) on Quick Access menu to return to the Music menu.

To operate a Tape Deck:

- 1. Touch (music) on the Quick Access menu.
- 2. Touch This accesses the tape deck controls:



Use this screen as your tape deck remote. The available buttons may vary depending on the setup code you assigned to this icon.

Touch hore to access any customized commands you have taught PowerTouch for this device and to access this device's macros. Touch the command or macro name to use it.

For more information on teaching commands to PowerTouch, see "What if my device does not work with any of the codes on the list? What if I Want PowerTouch to Control Additional Functions?" on page 39 of the Connections and Setup Guide. For more inforamtion on device macros, see "How Do I Perform Several Actions at Once?" on page 65 of this manual.

Touch (music) on Quick Access menu to return to the Music menu.
 See your cassette deck instruction manual for more information.

Turntable

To operate a turntable/record player:

- 1. Touch (music) on the Quick Access menu.
- 2. Touch PHONO to set the turntable as the speaker source. You will remain at the Music menu.
- Play your records as normal. Please note that you cannot control the turntable with PowerTouch; you must still operate the turntable manually.

Second CD Player or Tape Deck

These instructions are for operating a second CD player or tape deck from a single-Room installation (VR-4700) or from Room A (VR-4900/KRF-V9993D). For more information on operating devices in a multi-Room setup, see "Chapter Three: Using PowerTouch in Multiple Rooms".

To operate a second CD player or tape deck:

- 1. Touch (music) on the Quick Access menu.
- Touch CD2/TAPE2 ON/OFF). The CD2/TAPE2
 MONITOR indicator on the receiver also lights up. In this condition, the device connected to the CD2/TAPE2 inputs can be monitored.

Each touch of CD2/TAPE2 toggles its condition between ON and OFF. After completing playback of the device connected to the CD2/TAPE2 MONITOR, be sure to set this condition to OFF.

- 3. Touch The commands appear for the device you connected to this jack set and identified to PowerTouch.
- 4. Use the available commands as your CD player or tape deck remote.

Touch hore to access any customized commands you have taught PowerTouch for this device. Touch the command to use it.

For more information on teaching commands to PowerTouch, see "What if my device does not work with any of the codes on the list? What if I Want PowerTouch to Control Additional Functions?" on page 39 of the Connections and Setup Guide.

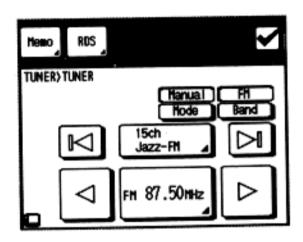
 Touch (music) on Quick Access menu to return to the MUSIC menu.

To select the input on the receiver, use the CD2/TAPE2 MONITOR key inside the door. The CD2/TAPE2 MONITOR indicator lights up when it is selected. After completion of playback, press the CD2/TAPE2 MONITOR key again so that the CD2/TAPE2 MONITOR indicator goes out.

Tuner

To tune in to a radio station:

- 1. Touch (music) on the Quick Access menu.
- 2. Touch TUNES. This accesses the tuner commands:



- 3. Tune in the station.
 - Touch stand to change bands.
 - Touch hode to switch from Auto tuning to Manual tuning or Manual tuning to Auto tuning. Select Manual if you experience interference due to weak radio signals. (Stations are received in mono during manual tuning.)

In Auto tuning mode, the stereo mode is activated automatically when a stereo station is tuned in (FM band only).

- Touch the left ☐ or right arrow ▷ to tune in a station.
- Touch and enter the broadcast frequency using the 10key pad. (e.g.; To select FM 87.5 MHz, enter 8, 7, 5, 0 and
- Select the left or right end arrow to cycle through any stations stored in memory. For more information on storing stations in memory, see "Storing Radio Stations in Memory (optional)" on page 40 of the Connections and Setup Guide.
- Touch Jazz-Fit to open the stored stations list. Touch a storage button and touch to tune that station.
- While Room B is selected, only and can be operated.
 Select the desired band by pressing the BAND button inside the door.
- 4. Touch (music) on Quick Access menu to return to the Music menu.

To tune in a station on the receiver:

- Press the INPUT SELECTOR

 or

 key. Each press switches the selected input.
- Press the MULTI CONTROL (△/▽) key 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 key to select Manual tuning. In
 this mode, each press of the MULTI CONTROL key varies the tuning
 frequency by one step.
- Press the P.Call (△/▽) key to tune in the preset radio stations one after another. Each press changes the preset station being tuned in. (See "Storing Radio Stations in Memory (optional)" on page 40 of the Connections and Setup Guide.)

Touch (Music) on Quick Access menu to return to the Music menu.

RDS (Radio Data System) VR-4900/U.K.-only KRF-V9993D 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:

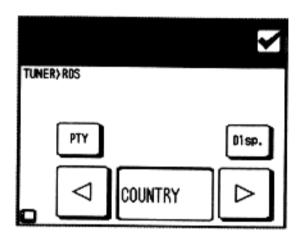
- Search for programs of a specific type using Program Type Identification Search (PTY search / for U.K. only).
- Search for a station automatically when you select the station name.
 (PS Read / for U.K. only)
- · View information about a station:
 - the station name
 - · any text data transmitted by the station
- Automatically select stations providing RDS and FM broadcasting and store them in the preset memory (up to 40 stations can be preset).
 For more information about storing stations, see "Storing Radio Stations in Memory (optional)" on page 40 of the Connections and Setup Guide.



Before using RDS functions, be sure to perform "Storing RDS Stations Automatically" on page 40 of the Connections and Setup Guide.

To search for a specific type of music or radio program:

- Touch (Music) on the Quick Access menu.
- 2. Touch (1988) button.
- 3. Touch RDS at the top of the screen. This accesses RDS commands:



- 4. Touch PTY.
- 5. While is highlighted, select the program type you want using one of the following methods:
 - Select the left (□) or right arrow (□) to cycle through the program types until the type you want appears. The program types cycle in the order shown in the table below.

Program Type Name	Receiver Display
News	NEWS
Information	INFORM
Sports	SPORTS
Talk	TALK
Rock	ROCK

For U.S.A. and Canada

, and Canada	reconstruction of the second
	Receiver Display
News	NEWS
Information	INFORM
Sports	SPORTS
Talk	TALK
Rock	ROCK
Classic Rock	CLS ROCK
Adult Hits	ADLT HIT
Soft Rock	SOFT RCK
Top 40	TOP 40
Country	COUNTRY
Oldies	OLDIES
Soft	SOFT
Nostalgia	NOSTALGA
Jazz	JAZZ
Classical	CLASSICL
Rhythm and Blues	R&B
Soft Rhythm and Blues	SOFT R & B
Foreign Language	LANGUAGE
Religious Music	REL MUSC
Religious Talk	REL TALK
Personality	PERSNLTY
Public	PUBLIC
College	COLLEGE
Weather	WEATHER

For U.K.

	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 affaires	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

- 6. Touch PTY .
 - If the tuner cannot find the program type you want, "NO PRO-GRAM" appears on the receiver display. The display returns to its original screen 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 4 through 6 above.

To cancel the program search, touch pty during the PTY search.

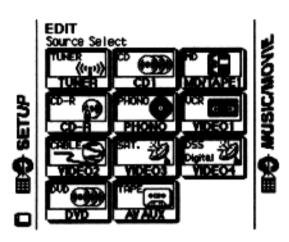
How Do I Record (Edit Mode)?

How Do I Record (Edit Mode)?

PowerTouch provides a simple yet powerful editing procedure that lets you quickly and easily specify the source and destination devices.

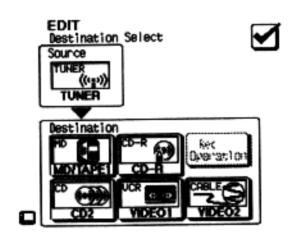
To record:

1. Touch / (edit) on the Quick Access menu to open the Edit menu:



How Do I Record (Edit Mode)?

Touch a source device. This will be the device you are recording from, like a DVD or CD player. PowerTouch displays the destinations able to record from that source:



- Select the recording destination device and touch touch displays the control screen for the destination device.
 - The src (Source) and (Destination) are displayed on the left side of the control screen.
 - Each touch of the Src. or switches between the source device control screen and the destination device control screen.
- Touch the record control on the destination device, then switch to the source device and touch the play control.
- Touch any Quick Access button to change to that menu.
 For more information on recording with any connected device, see the device's instruction manual.



- 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.
- It is not possible to record a digital source signal onto the device connected to the CD2/TAPE2 MONITOR output.

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 20 of the Connections and Setup Guide.

Dolby Digital and DTS 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".

To set the Digital Rec mode:

- 1. Touch the Src. (Src.) or St. (Det.) so that Src. (Src.) is reversed.
- 2. Select Dig.Rec or Dig.Rec.
- 3. When Dig.Rec or Dig.Rec is selected, the receiver displays "REC MODE: AUTO" or "REC MODE: MANUAL".



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.

How Do I Adjust PowerTouch's Display?

How Do I Adjust PowerTouch's Display?

How Do I See PowerTouch in the Dark?

You can use your PowerTouch in the dark. When you turn on the back light, your PowerTouch screen will light up, making navigation easier if you need to operate PowerTouch in dim or nonexistent light.

To use PowerTouch in the dark, press (BACKLIGHT).

To turn off the light and return to normal display, press (BACK-LIGHT) again.

Backlight is automatically turned off when PowerTouch goes to "sleep" you will need to turn it on again when you reactivate PowerTouch.



Keep the Back Light turned off during normal use to maximize the life of your batteries.

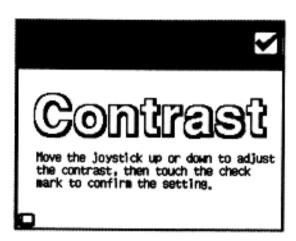
How Do I Adjust PowerTouch's Display?

How Do I See PowerTouch's Screen More Clearly?

You can also adjust the contrast to suit your viewing angle.

To adjust the contrast:

 Press (CONTRAST) until "Contrast" message appears on the screen:



- While this message is displayed, move the joystick up or down to increase or decrease the contrast until you are satisfied.
- Touch to save the contrast setting and return to the control screen.

How Do I Turn the Beeping On or Off?

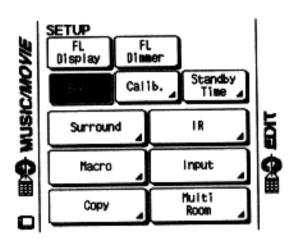
PowerTouch emits beeps under various circumstances (for example, to confirm your entry). You can turn these sounds off if you don't want to hear them. To turn the beeps off:

- Touch (setup) on the Quick Access menu.
- Touch once to turn off beeping. Touch it again to turn beeping back on.

How Do I Adjust PowerTouch's Display?

Using PowerTouch to Dim or Brighten the Receiver's Front Panel

Touch (Sepup) on the Quick Access menu.



 Touch FL to make the receiver display illumination dim and less noticeable. It is also possible to disable some indicators (DTS, 96 kfs, HDCD, DOLBY DIGITAL, MPEG and D.R.I.V.E.) on the receiver. Each touch of the FL Dimmer button switches the above as shown below.

Display/bright Indicators/enabled
 Display/dim Indicators/enabled
 Display/dim Indicators/disabled

Changing the Front Panel Display Mode

- Touch (Sepup) on the Quick Access menu :
- 2. Touch [FL Display]

A: Connected Device Input Type
AUTO

B: Input Terminal Connected Device

VIDEO4: DVD

C: Listen Mode

DOLBY DIGITAL

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

When the input mode is **PHONO**, **TUNER** or **AV AUX**, the connected device and listen mode are displayed alternately.

How Do I Perform Several Actions at Once?

PowerTouch uses sophisticated processing to make it easy for you to perform several actions at once using the Macro menu. Once you create the macros, specifying which devices should receive which commands at what interval, a single touch can lower curtains, dim lights, and turn on and start devices.

There are a number of macros automatically associated with each device. These macros will appear on the "More" screen for the device. Although you can assign any set of actions to a macro, the macro's association will not change. Each device input supports up to 6 macros.

Any device (including home automation devices such as Lutron, X10, and Makita) command can be included in a macro. (VR-4900/VR-4700 and KRF-V9993D for U.K. only)

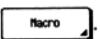
These macros enable you to group multiple actions onto a single button. For example:

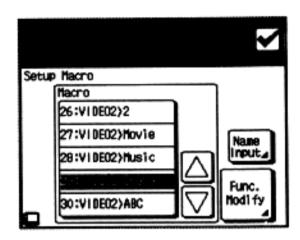
- You could create a macro to access a specific TV station (such as CNN or TV Land)—like setting a button on the radio in your car. You would most likely choose a macro associated with your TV, or one with the jack set to which you connected your cable or satellite receiver. You would then define a macro that entered the channel number for that station.
- You could create a macro to change video input and start a tape in your VCR. You would most likely choose a macro associated with your TV or with the video jack to which you connected your VCR. You would then define a macro that:
 - · changes the TV station to channel 3
 - turns on the VCR
 - delays 1 second to allow the VCR to power up
 - · switchs the TV input to VCR
 - starts the tape playing

Creating Macros

PowerTouch provides a simple way to create macros:

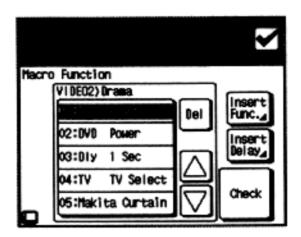
- Think about the sequence of events you want to set up. You may even want to note down which devices should turn on first and how much time you think should pass between each step.
- Touch (sepup) on the Quick Access menu then touch



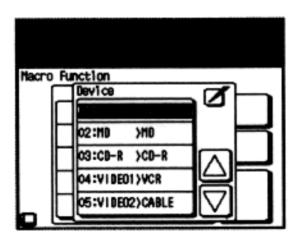


- Figure out what device you will be using when you want to run the macro and select a macro line associated with that device.
- 4. Touch .Enter a name for the macro. See "How Do I Enter Text?" on page 8 for more information on entering names.
- Touch for to save the name in the Macro.

6. Touch func.



Touch a blank space (all spaces are blank in the initial status).



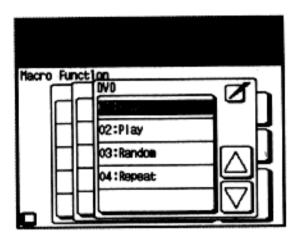
(Optional) To delete a function:

- a. Touch a macro function line you want to delete.
- b. Verify that this is the correct function. Touch (Optional) To insert a function:
- a. Touch a macro function line where you want to insert a function, then touch [Insert].

The function line will be inserted before the selected line.

b. Touch a device, then touch an available function.

8. Touch a device, then touch an available function.

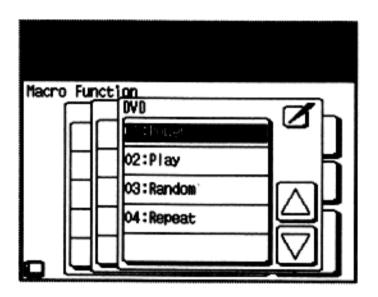


PowerTouch inserts the function then returns you to the Macro Device menu.

- 9. Repeat step 7 to insert all the devices and functions you want to use.
- Touch to return to the Macro Function menu.
- 11. Touch to test the macro.
- 12. If some of the functions did not occur, you need to insert delay before these functions.

To insert a delay (which is stored on its own line as a separate action):

- a. Touch the device line whose function did not occur.
- b. Touch lelay



- Touch a delay time. PowerTouch inserts the delay then returns you to the Macro Function menu.
- d. Repeat a. through c. for other functions.
- Repeat steps 7 through 9 until you have defined all the actions necessary for this macro.
- 14. Aim PowerTouch at the appropriate device and touch to test the macro. Do not move PowerTouch or walk in front of the transmitter while it is checking the macro.
- 15. Touch 📝 to return to the Setup Macro menu.
- 16. Touch a Quick Access button to return to the Music or Movie menu.

Using Macros

Once you have defined macros, you can use them directly from the basic menus (Music, Muvie) for one-touch operation of several devices.



The VR-4900 and KRF-V9993D has "Perfect Macro" capability. This senses if video devices connected via the composite jacks, or video monitors with an optional power sensing device attached are on or off, and will ensure that the macro works properly.

Perfect Macro is available only with devices connected to the composite video jacks.

For example, you create a Video On macro where PowerTouch turns the receiver and all of your video devices on. If your TV is already on when you run the macro, Perfect Macro will keep it on.

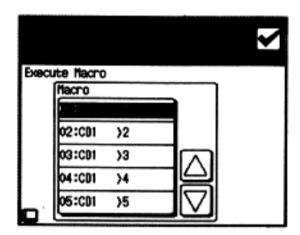
For more information about using a TV power sensing device, see Chapter Three of the Connections and Setup Guide.

There are two ways to use the macros you defined

- from the Macro Summary menu, which displays all the available macros
- from the More screen for each device, which displays the macros associated with that device

To run a macro from the Macro Summary menu:

 Touch (Macro) on the Music menu or the Movie menu to access the Macro menu.



- Touch a macro line. If the macro you want is not displayed, use the up
 or down arrow to scroll through the list until you see it.
- Touch to return to the previous menu.

To run a macro from a device's "More" screen:

- Follow the steps under the device name in this chapter to access the controls for that device.
- Touch More button.
- 3. Choose the macro from the list on the right side of the screen.

How Do I Control Home Automation Equipment? (VR-4900/VR-4700 and only-U.K. KRF-V9993D)

Your new PowerTouch comes pre-programmed with codes to control home automation products manufactured by X-10, Lutron, and Makita. These products enable you to use PowerTouch to dim lights, close or open drapes, and operate non-audio/video equipment. You can even control home automation equipment as part of a macro. See "Creating Macros" on page 66 for more information.

PowerTouch's control feature works using built-in screens specially designed to emulate the operation of X-10, Lutron, or Makita equipment remotes. These features require no setup to work with the compatible products listed.

Simply aim PowerTouch at the device you want to control, then touch the icon buttons and settings for the tasks you want to perform. Do not aim PowerTouch at your Kenwood receiver—none of the home automation devices are connected to it.

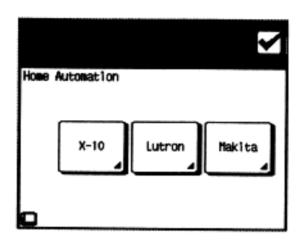
X-10 Home Automation

Using an X-10 Home Automation System, you can operate various items in your home with just a few buttons on your PowerTouch. Dimming lights and turning any non-audio/video equipment on or off is an easy task with X-10. All that is required is an X-10 IR converter and X-10 lamp control modules, which are sold separately.

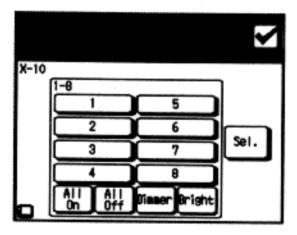
For more information, see the manual for the particular device you want to control.

To run your X-10 Home Automation System using PowerTouch:

1. Access either the Music or Movie menu and touch huto-



2. Touch to access the X-10 commands:



- Touch the numbered button that corresponds to the X-10 module you want to control. For more information, see your X-10 manual.
 - bright brightens lamp modules.
 - dims lamp modules.
 - means Select. Use this button to move back and forth between this group of buttons and the next eight buttons (9-16) on PowerTouch.

- 4. Touch do return to the Home Automation menu.
- 5. Touch any Quick Access menu to change to that menu.

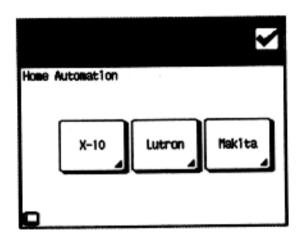
The X-10 IR-543 Converter is compatible with your PowerTouch. Contact X-10 at www.x-10.com, or at X10@x10.com. In addition, Radio Shack also sells a compatible converter (product number RSU 10037703).

Lutron

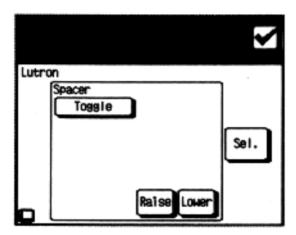
Your PowerTouch can dim or brighten indoor lighting using the Lutron Spacer System or Lutron GRAFIK Eye devices, which are sold separately. For more information, see your Lutron manual.

To operate your Lutron controls using PowerTouch:

1. Access either the Music or Movie menu and touch to open the Home Automation menu.



2. Touch to access Lutron commands. Touch to access either the Spacer (shown) or GRAFIK Eye control screens, depending on which system you use.

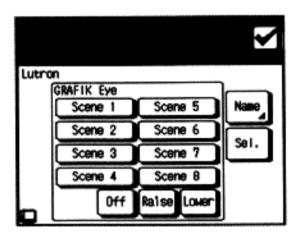


- Use PowerTouch's screen as your Lutron remote. Refer to your Lutron manual for more information on these commands.
- 4. Touch do to return to the Home Automation menu.
- 5. Touch any Quick Access menu to change to that menu.

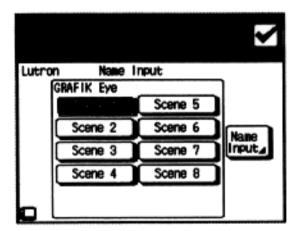
To assign names to the 8 available GRAFIK Eye scenes:

1. Access either the Music or Movie menu and touch to open the Home Automation menu:

- 2. Touch to access Lutron commands.
- 3. If necessary, touch to access the GRAFIK Eye control screen.



4. Touch to access the Name Input screen:



- Touch the scene name you want to change and touch Do I Enter Text?" on page 8 for more information on changing names.
- 6. Repeat step 5 for each scene name you want to store.

- Touch to return to the Lutron GRAFIK Eye controls. Press it again to return to the Home Automation menu.
- Touch any Quick Access menu to change to that menu.

Lutron models SP-HT-WH, GRX-IT, and GRX-8IT are compatible with your PowerTouch. Contact Lutron at:

Lutron Electronics Co., Inc. 7200 Suter Road Coopersburg, PA 18036-1299 800-523-9466 www.lutron.com

Makita

You can use your PowerTouch to open drapes or blinds in your home. Your PowerTouch completely replaces these Makita Automatic Drapery Opener System remotes:

- ZZRC10
- ZZRC20
- ZZRC30
- ZZRC60

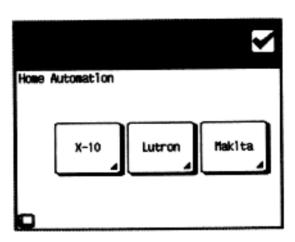
For more information, see your Makita manual for the particular device you want to control.

To operate your Makita device using PowerTouch.

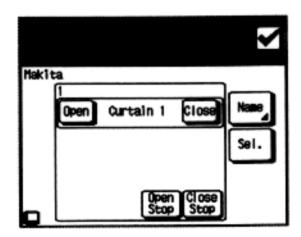
 Access either the Music or Movie menu and touch Home Automation menu:



to open the



2. Touch to access the Makita controls:



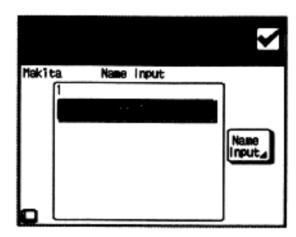
- 3. Use this screen as your Makita remote. If you want to control more than 1 Makita device, touch screens. You can control up to 6 Makita devices. Refer to your Makita manual for more information on these commands.
- 4. Touch do return to the Home Automation menu.
- 5. Touch any Quick Access menu to change to that menu.

To include a new curtain device (up to 6) touch [Sel.].

To assign names to curtain devices:

1. Access either the Music or Movie menu and touch huto-Home Automation menu:

- 2. Touch to access the Makita controls.
- 3. Touch to access the Name Input screen:



- Touch the curtain name you want to change and touch "How Do I Enter Text?" on page 8 for more information on changing names.
- 5. Repeat step 4 for each curtain name you want to store.
- Touch
 ✓ to return to the Makita controls. Press it again to return to the Home Automation menu.
- 7. Touch any Quick Access menu to change to that menu.

For more information, contact Makita at:

Makita USA Inc. 14930 Northam Street La Mirada, CA, 90638-5753 800-851-0537 (telephone) 714-522-8194 (facsimile) Makitaapd@aol.com

The products and companies listed previously are not owned by or affiliated with Kenwood in any way. Please contact these com-panies directly for further information or to find a retailer near you.

Accessories Control

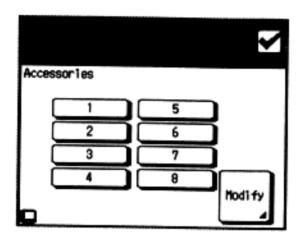
PowerTouch includes 8 additional buttons for controlling virtually any device that accepts IR codes. You can use these buttons to control these devices in two possible ways:

- You can teach the preset IR code to the device.
- You can teach the device's IR code to PowerTouch.

Regardless of whether you teach the accessory PowerTouch's code or teach PowerTouch the accessory's code, these commands can also be included in PowerTouch's Macros. See "Creating Macros" on page 66 for more information.

To teach one of PowerTouch's preset IR codes to a device:

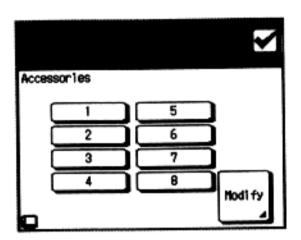
 Access either the Music or Movie menu and touch fices to open the Accessories menu:



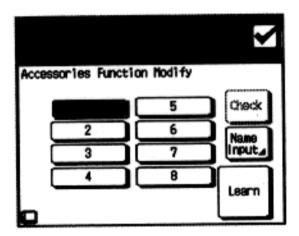
- See the device's manual for specific information about programming it with PowerTouch's accessory codes.
- Touch a button. This button will control the accessory once you are done. If the button is already assigned to another accessory, the new assignment will overwrite the old one.
- 4. (Optional) Change the button name. Touch name. Touch a button name you want to change and touch see "How Do I Enter Text?" on page 8 for more information on changing names.
- Once the device is programmed to accept PowerTouch's code, touch a Quick Access menu button to return to the Music or Movie menu.

To teach functions to the accessory codes:

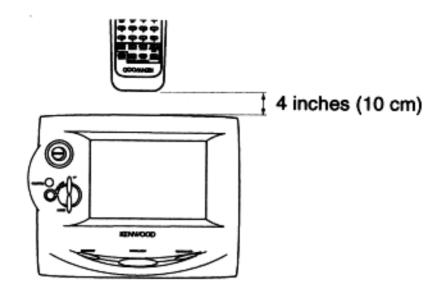
1. Access either the Music or Movie menu and touch to open the Accessories menu:



2. Touch to access the Accessories Function Modify menu.



- Touch a button. This button will control the accessory once you are done. If the button is already assigned to another accessory, the new assignment will overwrite the old one.
- Aim the device's remote at PowerTouch so that its IR transmitter and PowerTouch's are lined up.



Touch on PowerTouch, then press the button on the device's remote that corresponds to the command you want PowerTouch to learn.
The device's remote will send the code to PowerTouch, which will save it as the command for the button you selected.

This may take a few seconds; **do not** move PowerTouch or the device's remote until PowerTouch displays the Accessories Function Modify menu again, indicating that the learning process is complete.

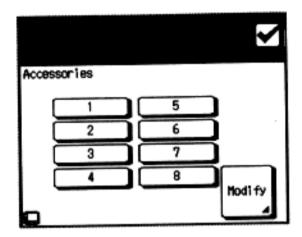
When PowerTouch has learned the device's IR code, PowerTouch returns to the Accessories Function Modify menu. After a learning pro-

cess is completed, always touch to test the command or function that PowerTouch has learned. If the command or function does not work, perform the learning process again. You may now control the accessory using the button you assigned. For more information on controlling accessories, see the following page.

- (Optional) Change the button name. Touch a button name you want to change and touch . See "How Do I Enter Text?" on page 8 for more information on changing names.
- Touch to return to the Accessories menu.
- Touch a Quick Access menu button to return to the Music or Movie menu.

To operate devices assigned to the accessory codes:

Access either the Music or Movie menu and touch fices to open the Accessories menu:



- Touch the button corresponding to the code that you taught PowerTouch for the device you want to control.
- Touch a Quick Access menu button to return to the Music or Movie menu.

Chapter Three: Using PowerTouch in Multiple Rooms (VR-4900/KRF-V9993D)

The VR-4900 and KRF-V9993D offers dual-room output and control, which enables you to use a single receiver to control devices and speakers for 2 rooms. Due to its advanced features and controls, you can listen to music in one room 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 VR-4900/KRF-V9993D's capabilities:

No additional amplifier for Room B: You can use the VR-4900/KRF-V9993D's Speaker B output for Room B. This allows you to listen to full surround sound in Room A only, or in stereo in Room A when Room B is active. The sound in Room B will always be in stereo.

Stereo amplifier for Room B: You use an additional stereo amplifier for Room B (connected to the VR-4900/KRF-V9993D's Second Room Preouts). This allows you to hear full surround sound in Room A even if you are also listening in Room B. The sound in Room B will always be in stereo.

This chapter covers only multiple-room operation of the VR-4900/KRF-V9993D. See Chapter Two for general operating instructions.

How Do I Switch Control Modes?

You can use PowerTouch to operate your receiver and source devices from 2 different rooms. To do so, you need to switch control modes to control the devices from each room.

(VR-4900/U.K.-only KRF-V9993D)

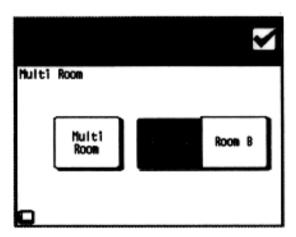
To make operations from Room B easier, we recommend that you purchase a second PowerTouch. That way you can leave one PowerTouch in Room A that is always set up for Room A operation, and another PowerTouch in Room B that is always set up for Room B operation.



Some system control features are not available when the PowerTouch is set up for multi-room control.

To switch control modes for Room A or Room B:

- Touch (setup) on the Quick Access menu to access the Setup menu.
- 2. Touch to access multi-room commands:



- 3. Touch to highlight it.
- 4. Each touch switches Room A and Room B alternately.

The buttons which can be controlled currently are indicated by highlighting.

- Room A controls devices connected for Room A.
- Room B controls devices connected for Room B.

Touch to return to the Setup menu.

If you buy a second PowerTouch, set one to Room A (and keep it there) and one to Room B (and keep it there).

Why Don't I See All My Devices?

Your Kenwood PowerTouch displays icon buttons for each of the devices in your home audio-video system that you have identified to the PowerTouch. If you have not identified a device to the PowerTouch, its icon button will appear blank (the buttons will be there, but it will not contain an icon). For more information on identifying devices to the PowerTouch, see "How Do I Identify Devices?" on page 37 of the Connection and Setup Guide.

When you switch rooms, only devices you can control in that room will show up as icons on PowerTouch.



Devices connected via digital jacks only cannot be listened to in Room 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 room.

How Do I Operate Devices?

How Do I Operate Devices?

General instructions for operating any device are given under "How Do I Operate Devices?" on page 29. Some operations, however, are a little different depending on the room you are in. The following section discusses how devices may operate differently in different rooms.

Operating Devices in Room A

To select the speakers for Room A, press the button for Speakers-A on the front panel of the receiver.

To set up PowerTouch to control Room A devices, follow the instructions under "How Do I Switch Control Modes?" on page 86.

To control a second CD player from Room A, use ______, unless you are using a Kenwood 200-Disc CD Changer (see below).

Kenwood CD-3280M, CD-2280M, DPF-J9010, DPF-J9020 or DPF-J9030 200-Disc CD Changers are specifically designed to work with the VR-4900/KRF-V9993D in a dual-room environment. Since they contain two CD players, one can play in Room A while the other is playing simultaneously in Room B. Use CD1 to control the changer for Room A and CD2 to control the changer for Room B.

Operating Devices in Room B

If you are using the receiver's Speaker B outputs to power the speakers in Room B, press the button for Speakers-B on the front panel of the receiver to activate the speakers in Room B. The Listen Mode in Room A will automatically switch to stereo when you turn Speakers B on.

To set up PowerTouch to control Room B devices, follow the instructions under "How Do I Switch Control Modes?" on page 86.

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:

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.

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 devices and eliminate the ones where the problem doesn't occur. When you're done with this step, you'll probably have found the problem.

Go over all device connections slowly and methodically. Doublecheck 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 device. This is especially important with VCRs, tape decks, MD recorders, and equalizers, where it's very easy to swap the "play" and "record" connections.

You should also check your PowerTouch settings carefully. Did you set the input to the correct device? (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 devices do.

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

User error is more likely than device 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 devices' 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 device 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 11 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 15 of this manual.
- The proper input (e.g., CD player, Tuner, etc.) has been selected on the PowerTouch. See "How Do I Operate Devices?" on page 29 of this manual.
- (VR-4900/KRF-V9993D only) The proper room has been selected. See "How Do I Switch Control Modes?" on page 86 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 "To set the Input mode manually" on page 22 of this manual.
- The correct Input Mode (e.g., FULL AUTO) has been set for the digital input. See "Input Modes" on page 21.
- The correct speakers have been activated. See "Turning the Speakers On" on page 10 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.

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.

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.
- 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 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 10 of this manual.
- The correct listen mode has been selected. See "What Are Listen Modes?" on page 17 of this manual.

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

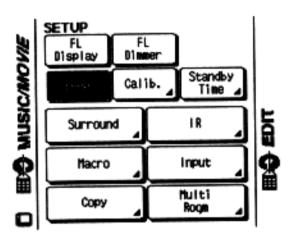
- The proper surround play mode (Dolby 3 Stereo, Dolby Pro Logic, DSP, MPEG, DTS or Dolby Digital) has been selected. See "What are Listen Modes?" on page 17 of this manual.
- All of the speaker wires are connected tightly. See Chapter One of the Connections and Setup Guide.

I can hear sound only from the center speaker when Dolby Pro Logic or Dolby 3 Stereo is selected

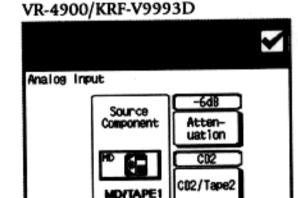
Check that the program (e.g., TV show, radio station, VCR tape) is in stereo. Programs in mono play only through the center speaker when the receiver is in the Dolby Pro Logic listen mode.

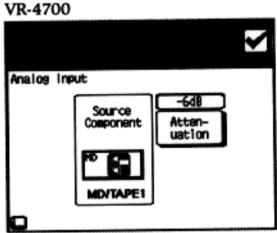
Sound from one (or more) of my devices is abnormally loud or soft Adjust the analog input level for that device:

- Select the icon for the device. For CD1, VIDEO2, VIDEO3, and VIDEO4, also select the Input Analog icon.
- 2. Touch (setup) on the main menu.



3. Select Input





- 4. Touch Levery time you select the button the volume will cycle between 0dB, -3dB, -6dB and back up to 0dB. Select the level that best matches that of the other sources.
- Touch to return to the Setup menu.

(VR-4900 and KRF-V9993D only) I can't hear any sound in Room B Check that:

- The volume in Room B is turned up. See "How Do I Switch Control Modes?" on page 86 of this manual.
- The Room B speakers are turned on if using Speaker B outputs for Room B (as opposed to Second Room Pre Outs). See "Turning the Speakers On" on page 10 of this manual.
- The source is connected via an analog jack set (digital inputs are not sent to Room B). See Chapter One of the Connections and Setup Guide.
- Multiple Rooms is activated.

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 "To set the Input mode manually:" on page 22 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 device.
- The source is connected via an analog jack set (digital inputs are not sent to Room B). See Chapter One of the Connections and Setup Guide.
- Analog has been set as the input type. 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 61.

The initial sound is intermittent or non-existent when I start to play from a Dolby Digital, DTS 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, 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 type. DTS discs do not output analog sound. See "To Set Input Mode manually" on page 22.
- DTS discs can only be played in Room A (VR-4900 and KRF-V9993D only).

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.

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

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

Sound it 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.

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. Component input signals cannot be transmitted via SVideo or composite (standard) connections. All Room B inputs must
be composite-S-Video is not supported in Room B.

PowerTouch

- Check that the correct video input on the TV is selected.
- Check that the video software you record does not have copy guard protection.

PowerTouch 1 4 1

I don't see icons for all my devices

You must identify devices for PowerTouch control for them to appear in the icon bar on PowerTouch. See Chapter Two of the Connections and Setup Guide.

I don't see icons for all the devices I set up

Some of the device icons appear only when PowerTouch is set up to control Room A and some appear only when PowerTouch is set up to control Room B. See "Why Don't I See All My Devices?" on page 87 of this manual. (VR-4900/KRF-9993D only)

When I select a device icon, I don't see any commands

- When you start PowerTouch for the very first time, all the possible icons appear. If you select any of them, there will be no commands in the command area. You must set up PowerTouch before you can begin controlling devices. See Chapter Two of the Connections and Setup Guide.
- Re-enter the setup code for the device. See Chapter Two of the Connections and Setup Guide.

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

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

PowerTouch

My PowerTouch is not responding

- Make sure you are within the operating range for PowerTouch. See "How is PowerTouch Powered?" on page 5 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 One of the Connections and Setup Guide.
- Check the contrast of the PowerTouch's screen is adjusted properly.
 See "How Do I See PowerTouch's Screen More Clearly?" on page 63.

My PowerTouch is beeping. What does that mean?

The following table includes information about PowerTouch beeps:

Number	Tone	Meaning
1	high	Confirms your most recent button push or touch
1	low	Indicates that your most recent button push or touch could not be performed
2	high	Confirms learning or copying
2	low	Indicates that learning or copying was not successful

PowerTouch does not "learn" new commands or functions.

- Check that the distance between PowerTouch and the device's remote is properly set. Do not place the devices remote right against PowerTouch.
- Check whether the PowerTouch is too close to the receiver, a TV, highfrequency fluorescent lighting or other electrical appliance.
- "Learning" may be not carried out with some devices' remote.

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

 While pressing and holding the CONFIRM and VOLUME DOWN button, use the stylus to press the RESET button at the bottom of the battery case.

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:
 - 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 shortedwire.
 - 5 See Chapter One of the Connections and Setup Guide.

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

(For VR-4900 and VR-4700)

- 1. Turn the receiver off.
- 2. Unplug the receiver.
- Plug it back in while pressing and holding the Power button (you may need someone else to help you do this)

(For KRF-V9993D)

- 1. Turn the receiver off. (The Power button is OFF position.)
- Press ON/STANDBY button while pressing and holding the Power button.

PowerTouch

The following settings are cleared:

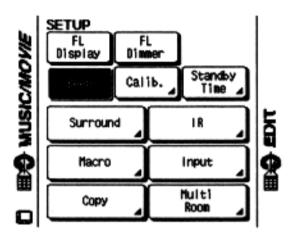
- The device set as input (Tuner is selected by default)—see "How Do I Operate Devices?" on page 29 of this manual.
- The volume setting (-65dB is selected by default)—see "Adjusting the Volume" on page 11 of this manual
- The tuner's receiving band (FM is selected by default)—see "Tuner" on page 52 of this manual
- The tuner's frequency (87.5MHz is selected by default)— see "Tuner" on page 52 of this manual
- The tuner's preset memory—you will need to reset your stored radio stations (see Chapter Two of the Connections and Setup Guide)
- The surround setting—see "What are Listen Modes?" on page 17
 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

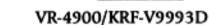
Lower the analog input level for the source device you're listening to. (Setting the proper input level eliminates distortion that occurs if a source device's output level is too high. When this happens, the front panel CLIP indicator will flash red continually or remain red for periods of 1 second or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

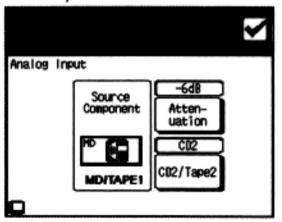
- Select the icon for the source device. For CD1, VIDEO2, VIDEO3, and VIDEO4, also select the Input Analog icon.
- 2. Touch (setup) on the main menu.

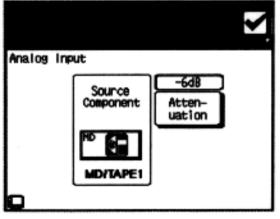


VR-4700

3. Select Input .







- 4. Touch Servery time you select the button the volume will cycle between 0dB, -3dB, -6dB and back up to 0dB.
- While the source component is playing, reduce the Input Level to -3dB. If the CLIP indicator still flashes frequently or remains lit for 1 second or longer, reduce the Input Level again to -6dB.

I can't access any RDS (Radio Data System) functions (VR-4900/ only-U.K. KRF-V9993D)

- Make sure your receiver is a VR-4900/U.K.-only KRF-V9993D and that your PowerTouch is set to Model 1; the VR-4700 does not support RDS. See "Selecting the Model Type" on page 33 of the Connections and Setup Guide.
- Confirm that the radio station is broadcasting RDS.
- Make sure you use the Auto Memory function to store RDS stations in memory. See "Storing RDS Stations Automatically" on page 40 of the Connections and Setup Guide.

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 "Tuner" on page 52 of this manual.
- The tuner is set to the correct frequency. See "Tuner" on page 52 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 or an amplified FM antenna (available at any home electronics store).

When I press a key 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 99 of this manual.
- The Tuner input is selected. See "Tuner" on page 52 of this manual.

Macro is not running as I programmed.

- Because PowerTouch can only transmit one command at a time, stagger the timings of the various macro settings so that the commands are given at different times.
- On or Off command for audio devices may not work correctly if they are not Kenwood components connected via system control cables.

(For VR-4900/KRF-V9993D)

 Depending on the video signals of the connected video devices, TV power sensing may not work correctly.

(For VR-4700)

On or Off command for video devices may not work correctly. If they
are already on, On command turns the devices off, and if they are
already off, Off command turns the devices on.

Troubleshooting

Index

Numerics	D
200-Disc CD Changer	devices
introductory information 39	checklist 31, 39
operating 40	identifying to Powertouch 29
operating in multiple rooms . 88	operating 29, 88
playing CDs 40	devices controlling from each room 88
reading and storing disc titles 41	Digital Signal Processor (DSP)
warning during PowerTouch load	effects24
time42	digital to analog recording 61
	digital to digital recording 61
A	dimming receiver front panel 64
	display panel 2
accessories	display screen
accessing codes with	adjusting 62
PowerTouch 80	devices displayed 4
controlling miscellaneous	Dolby Digital 18
devices84	DTS 18
adjusting PowerTouch display screen	DVD player
	operating 37
analog input, switching	switching input22
AV AUX front panel2	
_	Н
В	
balancing volume extremes 16	headphones
batteries, maximizing life 62	jack 2
•	using
С	home-theater sound 16
_	_
CD player	I
operating 40, 45	icons
operating from room A 88	not appearing on powerTouch
CD2/TAPE 2 MONITOR indicator light	87
2	identifying components 29, 97
CD-R Recorder	Input Analog mode 21
operating 47	IR indicator and transmitters 2
changing front panel display 64	items on PowerTouch3
confirm button 3, 7	
custom macros	
croating (C	

J	O
joystick	operating
moving around on PowerTouch	devices29
7	home automation
on PowerTouch3	equipment72
	macros 70
L	range 5
laser disc player, operating 38	_
listen modes	P
defined 17	Perfect Macro 70
Dolby 3 Stereo17	Power On/Standby button 2
Dolby Digital18	
Dolby Pro Logic17	R
DSP (Digital Signal Processing)	
17	radio stations,52
DTS (Digital Theater System) 18	RDS (Radio Data System)
MPEG18	definition 54
setting manually23	features54
stereo17	searching for radio stations using
Lutron	PowerTouch55
contact information 77	reading and storing CD titles 42
operating74	receiver
орстана,	changing display mode 64
	dimming front panel64
M	items on front panel 2
macros	recording59
creating 66	room A
using 70	operating CD player 88
Makita	operating devices 88
contact information 80	setting up PowerTouch 86
operating77	sound scenarios85
MD recorder, operating48	speakers, operating 10
MPEG18	speakers, selecting 88
moving around 7	switching control modes 86
multiple rooms	
operating devices88	room B
sound scenarios 85	operating devices88
switching control modes 86	setting up PowerTouch 80
mute button 3	sound scenarios 85
muting sound15	speakers, operatings 10, 88
-	switching control modes 80

8	V
satellite TV, operating 33	VCR
searching	operating36
specific radio programs 55	volume
setting	adjusting 11
DSP effects 25	control knob 2
listen mode manually 23	
sound	X
adjusting 10	
scenarios in multiple rooms 85	X-10 Home Automation System
speakers	contact information74
levels, adjusting 13	operating72
loudness, adjusting 11	
selector keys on receiver 2	
tone, adjusting12	
room A, operating 88	
room B, operating 88	
Surround Play, checking 19	
surround sound	
listen modes17	
multiple rooms85	
switching	
to analog input 21	
room control modes 86	
T.	
1	
tape deck	
operating50	
tuner	
operating 52	
turntable	
operating 51	
TV	
operating32	
TT	
u	
using	
joystick to move around 7	
macros 70	
PowerTouch in multiple rooms . 85	
DowerTouch in the dark 62	

PowerTouch's interface 6