how to

operate and enjoy your

VR-4090/VR-4080
KRF-V7773D

Digital Audio/Video

Receiver

KENWOOD

Users' Guide

B60-4645-10 01 (CH) (K,P,T,M,X,Y) (OC) 9911

Table of Contents

Chapter One: Moving Around 1

What's on the Front Panel of Your Kenwood Audio - Video Receiver? 2

What's on the Remote Control unit? 4

LCD Indicators 6

How Do I Use Remote Control unit? 7

Remote controllable Range 7

Chapter Two: Controlling the Receiver..... 8

How Do I Adjust the Sound? 9

Turning the Speakers On 9
Adjusting the Volume 10
Adjusting the Tone (Stereo mode only) 11
Adjusting the Loudness (Stereo mode only) 13
Adjusting Speaker Levels 14
Adjusting the Input Level 15
Muting Sound 16
Midnight Theatre Function (Dolby Digital playback only) 16
What are Listen Modes? 17
What are Input Modes? 21
Switching Input modes 22
Applying Digital Signal Processor (DSP) Effects 23

Setting a DSP effect 24
HDCD and D.R.I.V.E. Effects 25
Headphone Operation 26
Selecting the Inputs 27

How Do I Operate Devices? 28
Operating a Television 28
Operating an AV Device 29
Operating a CD player 30
To play Kenwood 200-Disc CD Changer 30
Single or Rotary CD Player 32
CD-R Recorder 32
Operating an MD Recorder or Cassette Deck 33
Playing an Analog Turntable 34
Monitoring a Video Camera or Playing an Additional VCR 34
Playing a Second CD player or Cassette Deck 34
Radio Tuning 35
Recording 40

How Do I Adjust the LCD Display? 42
Using Remote Control unit under low light 42
Adjusting the contrast of LCD display 42
Adjusting the brightness of receiver 43
Selecting the display mode of receiver front panel 43

Executing Several Operations at Once (Macro function) .. 44
Registering a macro 44
Executing a macro 45

Chapter Three : key Layout in Controlling Other Devices 46

Chapter Four: Troubleshooting 58

Sound 60
I don't hear any sound at all 60
Audio is not output only when a 96k fs compatible disc is played. 60
I can't hear sound from one or more of the speakers, or the sound is abnormally low 61
I can't hear sound from my surround or center speakers 61
I can hear sound only from the center speaker when Dolby Pro Logic or Dolby 3 Stereo is selected 61
Sound from one (or more) of my components is abnormally loud or soft 61
I can't hear sound from some of my laser discs 62
There wasn't any sound recorded on tapes made on my VCR or tape deck 62
The initial sound is intermittent or non-existent when I start to play a Dolby Digital, DTS or MPEG source 62
With a Dolby Digital program, the loud sounds aren't very loud and the quiet sounds aren't very quiet 62
All I hear is loud static when I play DTS discs 62
I hear a hum when I select the PHONO input 62
Sound is intermittent 63

Video **63**

I can't see the program I'm playing on the TV There wasn't any video output to my VCR when I recorded **63**

Remote Control unit **63**

My Remote Control unit is slow to respond—sometimes I have to press buttons or select commands several times 63

My Remote Control unit is not responding 63

The RF remote control function does not work 64

Receiver/Tuner **64**

My receiver won't turn on and the STANDBY indicator is flashing 64

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 65

I can't receive a radio station 66

I can't access any RDS (Radio Data System) functions 66

I'm getting a lot of static/interference 66

When I press a key to tune to a preset station, the receiver does not respond 66

Chapter One: Moving Around

Welcome to the Kenwood VR-4090/VR-4080/KRF-V7773D Users' Guide. This chapter explains the keys and functions you can find on the front of the receiver and on Remote Control unit. The chapter also includes an explanation of how to navigate the convenient display on your new Remote Control unit.

It includes the following sections:

What's on the Front Panel of Your Kenwood Audio - Video Receiver? page 2

What's on Remote Control unit? page 4

LCD indicators page 6

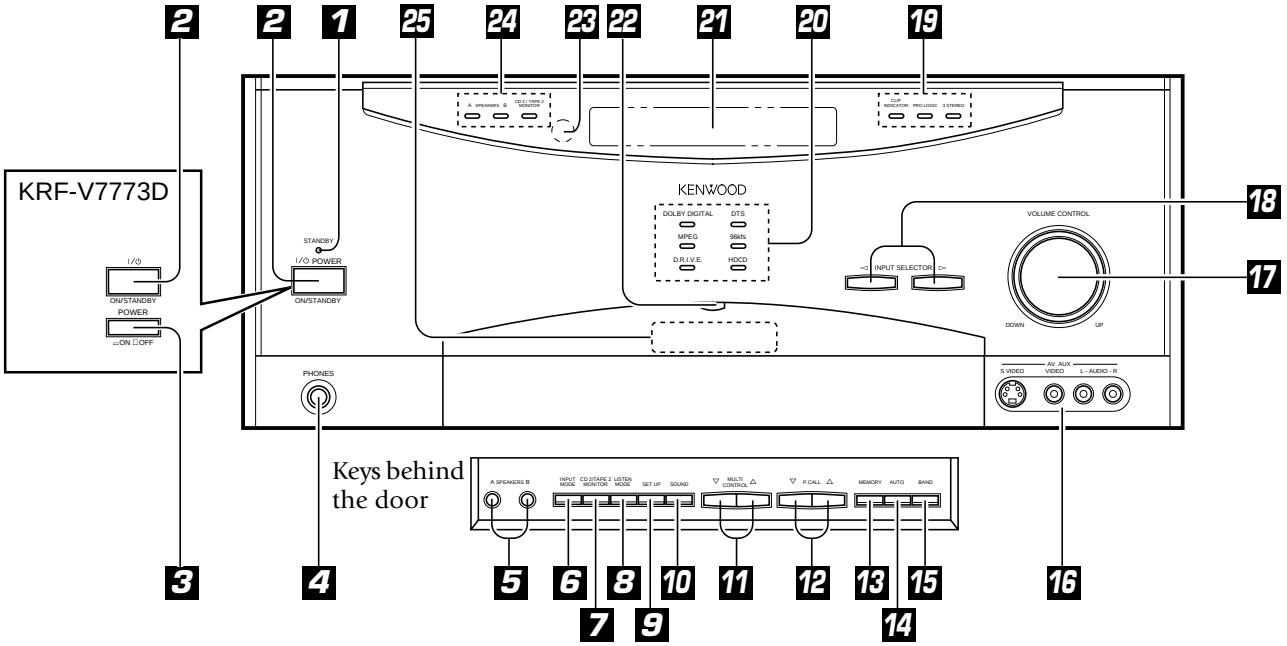
How Do I Use Remote Control unit? page 7

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

1. STANDBY indicator light
2. POWER ON/STANDBYkey
   (VR-4090/VR-4080)
   ON/STANDBY key
   (KRF-V7773D)
3. POWER ON / OFF switch (KRF-V7773D)
4. PHONES jack
5. SPEAKERS A/B key
6. 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) key
12. P. CALL (Up/Down) key
13. MEMORY key
14. AUTO key
15. BAND key
16. AV AUX input jacks

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

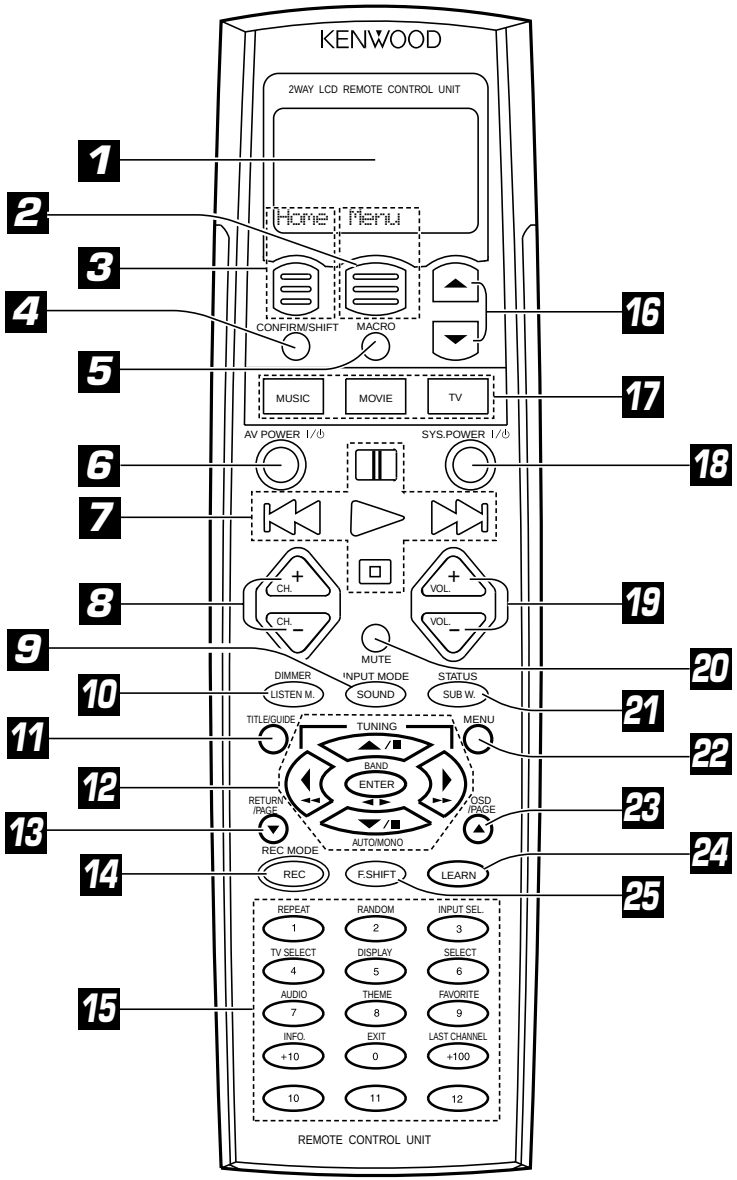
What's on the Front Panel of Your Kenwood Audio-Video Receiver?, continued



17. VOLUME CONTROL knob
18. INPUT SELECTOR key
19. Indicators
    CLIP INDICATOR
    PRO LOGIC
    3 STEREO
20. Indicators
    DTS / 96 k fs / HDCD
    DOLBY DIGITAL / MPEG /
    D. R. I. V. E.
21. DISPLAY
22. 2-way communication indicator
23. Infrared remote sensor (KRF-V7773D only)
24. Indicators
    SPEAKERS A/B
    CD 2/TAPE 2 MONITOR
25. Infrared remote transmitter

Key 5 to 15 are located inside the panel door.

What's on Remote Control unit?



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

   ► : Play

   ⏮ , ⏭ : Skip

   ⏸ : Pause

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

    ▼Cursor down (AUTO/MONO, ■ STOP) key

    left, right (TUNING) keys

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

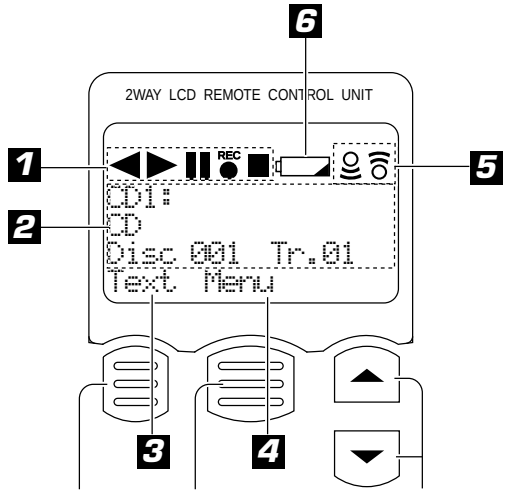
15. Numeric keys (AV device control keys)
16. LCD cursor up/down keys
17. Input selector keys
    MUSIC: Audio device selector key
    MOVIE: Video device selector key
    TV: TV/video monitor selector key
18. SYS. POWER I/⏻ (Receiver power) key
19. VOL. (+/-) keys
20. MUTE key
21. SUB W. (STATUS) key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

How to operate the F.SHIFT key:

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

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

LCD Indicators



LCD function key 1 LCD function key 2 Cursor up/down keys

1. Playback/recording mode indicators

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

   ■: Stop indicator
2. Character display

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

   : Sending. : Receiving.
6. Battery indicator

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

To switch the menu:

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

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

How Do I Use Remote Control unit?

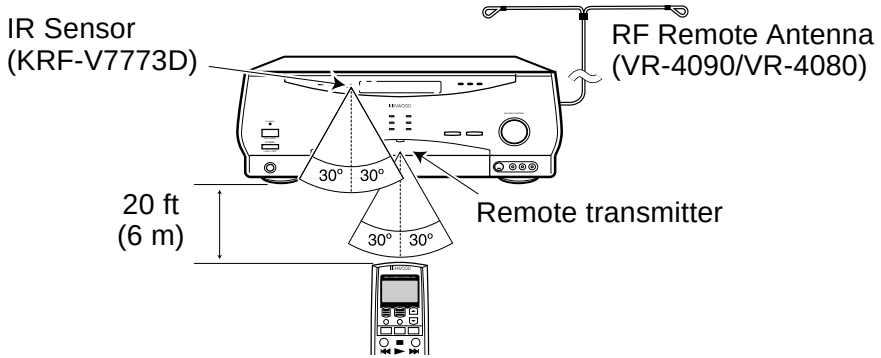
To select an item:

The displayed items can be scrolled or switched using the LCD cursor or key.

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

Remote controllable Range

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



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

(VR-4090/VR-4080) : The remote control signal received by the main unit is only the RF signal.

The control distance of the RF remote signal is about 30 ft (10 meters) provided there is no obstacle.

(KRF-V7773D) : IR signals are transmitted and received.

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

NOTES

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

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

Chapter Two: Controlling the Receiver

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

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

The present manual describes the operation procedures in normal use.

This chapter is composed of the following sections.

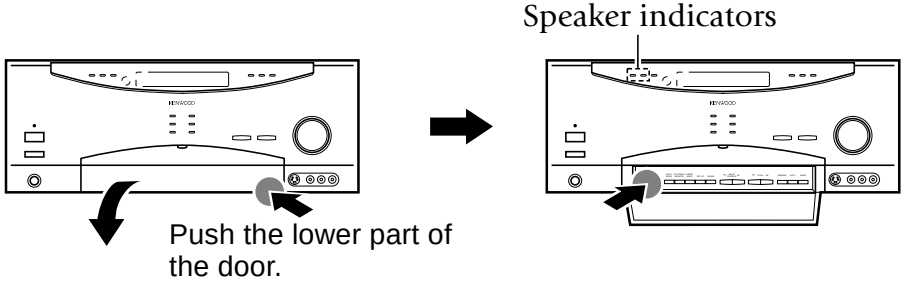
How Do I Adjust the Sound? page 9
Selecting the Inputs page 27
How Do I Operate Devices? page 28
How Do I Adjust the LCD Display? page 42
Executing Several Operations at Once (Macro function) page 44

How Do I Adjust the Sound?

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

Turning the Speakers On

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



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

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

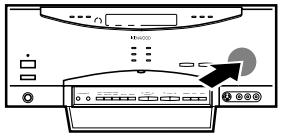
If you select **SPEAKERS B** while listening to a surround mode, the sound will automatically revert to stereo. While **SPEAKERS B** is on surround made cannot be selected.

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

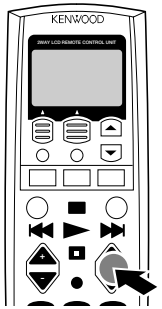
Adjusting the Volume

Use one of the following methods to adjust the volume.

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



• Press or on Remote Control unit.

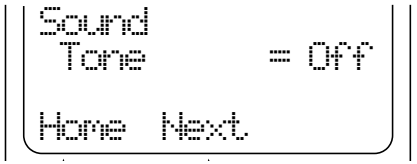


Adjusting the Tone (Stereo mode only)

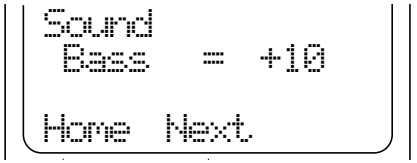
The Tone control adjusts the bass and treble tone of your front speakers manually. In addition to setting Bass and Treble tone adjustment values, you can completely bypass the tone control circuitry for a purer sound.

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

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



2. Press the LCD cursor up/down (▲/▼) key on Remote Control unit to select **Tone = On** (or **Off** if desired so).



3. When **On** is selected above and the **SOUND** key or **Next** key is pressed again, the Bass setting menu appears.

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

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

   Adjust in the range from +10 to -10.

5. Press the **Next** key (LCD function key 2).
6. The Treble setting menu appears.
7. Press the LCD cursor up/down (▲/▼) key on Remote Control unit to select the desired tone level.

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

Operation on the receiver:

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

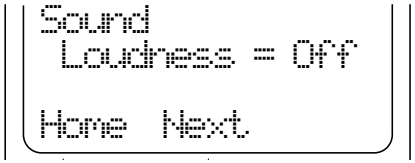
   When **OFF** is selected above, the **LOUDNESS** setting menu appears.
4. Adjust using the **MULTI CONTROL** (△/▽) key.
5. Press the **SOUND** key.
6. When the **TREBLE** setting menu appears, adjust the treble in the same way as above. To exit from setting, press the **SOUND** key repeatedly until "**SOUND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

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

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



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

Operation on the receiver:

1. Press the **SOUND** key inside the door repeatedly until **LOUDNESS OFF** or **ON** is displayed.
2. Press the **MULTI CONTROL** (△/▽) key to select **LOUDNESS ON** (or **OFF**), then 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 Remote Control unit in the *Connections and Setup Guide*.

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

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

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

– –

Operation on the receiver:

1. 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

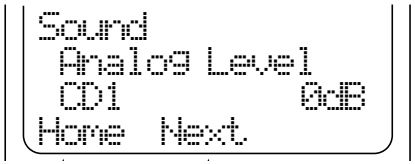
2. Press the **MULTI CONTROL** (△/▽) key to select the desired volume level, then press the **SOUND** key repeatedly until "**SOUND FIXED**" is displayed.

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

Adjusting the Input Level

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

1. Select the input to be adjusted (see "Selecting the Inputs" on page 27).
2. Press the **SOUND** key on the receiver or Remote Control unit repeatedly until **Analog Level (ANLG INPUT)** is displayed.



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

   When operating on the receiver, press the **MULTI CONTROL** (△/▽) key to select the desired input level, then press the **SOUND** key repeatedly until "**SOUND FIXED**" is displayed.

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

Muting Sound

The sound can be muted temporarily.

- Press the **MUTE** key on Remote Control unit. The **MUTE** indicator blinks during muting.

Use one of the following methods to cancel muting.

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

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

Midnight Theater Function (Dolby Digital playback only)

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

Midnight theater function only works if you are listening to a Dolby Digital program that has been encoded with special compression data.

To use the Midnight Theater function:

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

2. Press the LCD cursor up/down (▲/▼) key on Remote Control unit to select **Off**, **1** or **2**, then press the **Home** key.

   When operating on the receiver, press the **MULTI CONTROL** (△/▽) key to select **Off**, **1** or **2**, then press the **SOUND** key repeatedly until "**SOUND FIXED**" is displayed.

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, TV programs 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 Processor):** DSP allows you to create your own custom surround sound environments and use them with any source (except Dolby Digital 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 23 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 much-improved clarity, surround and sound movement capability compared with Dolby Pro Logic. This listen mode is available on CD, LD, and DVD media. DTS is a strictly digital format that can be supplied ***only*** by a CD, LD, or DVD player that supports DTS sound. If you attempt to listen to DTS encoded media through the analog connections to your new receiver, you will experience digital noise (loud static).

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

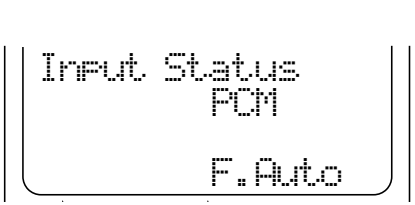
When playing DTS-encoded media, wait until **DTS** indicator is lit on the receiver display before proceeding.

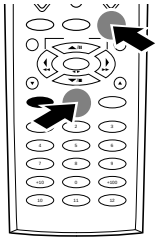
The listen mode is fixed to Stereo during playback of 96 kfs signals.

Checking the listen mode during playback

The receiver detects the recording format and adapt itself to it automatically. The current surround mode can be checked as follows.

1. Press the **F.SHIFT → SUB.W** (**STATUS**)* key on Remote Control unit.



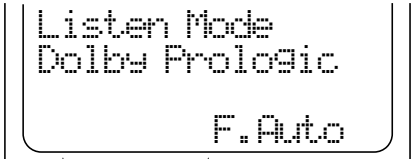


After 8 seconds, the display goes off.

To set the listen mode manually:

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

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



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

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.

Examples of inputs with which switching is available

when the input signal is PCM or Analog	when the input signal is DTS
Dolby Pro Logic	DTS
Dolby 3 Stereo	Stereo
Arena	
Jazz Club	
Stadium	
Cathedral	
Theater	
Stereo	

when the input signal is Mpeg Multi	when the input signal is Dolby Digital
*Mpeg Multi	*Dolby Digital
*Dolby Pro Logic	*Dolby Pro Logic
*Dolby 3 Stereo	*Dolby 3 Stereo
Stereo	Stereo

The modes marked * are not displayed with certain input signals.

Only **STEREO** is available when **SPEAKERS B** are **ON**.

- In "Full Auto" or "Auto", 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.
- If the center speaker is turned off , you cannot select Dolby 3 Stereo.
- If the surround speakers are turned off , you cannot select Dolby Pro Logic.

What are input modes?

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

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

DIGITAL-AUTO :

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

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

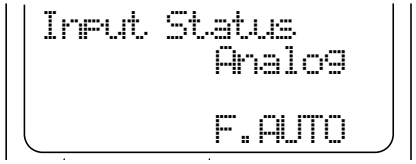
6CH INPUT : The inputs are fixed at the analog 6-channel inputs. This mode can be selected only when the DVD input is selected with the input selector.

Switching Input modes

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

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

1. Press the **INPUT MODE** key on the receiver or press the **F.SHIFT → SOUND** (**INPUT MODE**)* key on Remote Control unit.
2. Repeat step 1 until the desired input mode is displayed.



- If you turn off the receiver, select a different source device, the "Digital 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.

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

Applying Digital Signal Processor (DSP) Effects

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

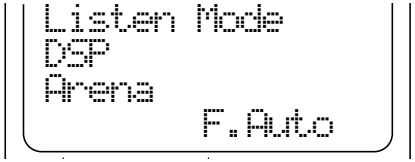
The DSP mode lets you add the atmosphere of an Arena, Jazz Club, Stadium, Cathedral or Theater from any PCM or analog input source. These modes are particularly effective when used with stereo program sources like CD, television and FM radio. You might enjoy trying the STADIUM or ARENA mode the next 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.

Setting a DSP effect

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



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

To customize the DSP effect:

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

Operating on the receiver:

1. Press the **SOUND** key repeatedly until to display DSP Wall type.
2. Press the **MULTI CONTROL** (△/▽) key to select **SOFT**, **MEDIUM** or **HARD**.
3. Press the **SOUND** key to display DSP Room Size.
4. Press the **MULTI CONTROL** (△/▽) key to select **SMALL**, **MEDIUM** or **LARGE**.
5. Press the **SOUND** key to display DSP Effect Level.
6. Press the **MULTI CONTROL** (△/▽) key to select one of Level 1 to Level 5, then 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 HDCD-compatible 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 if it does not incorporate the HDCD circuitry.

D.R.I.V.E. is a KENWOOD original technology for reproducing signals with high resolution by instant switching of the internal digital adaptive 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.

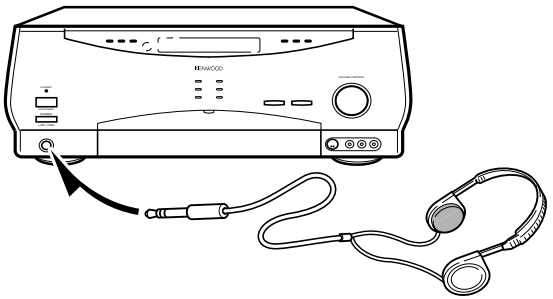
HDCD and D.R.I.V.E. is effective only at the time of digital input stereo or DSP mode.

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.



NOTES

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

Selecting the Inputs

To select an input on the receiver:

Press one of the INPUT SELECTOR ◁/▷ keys. Each press changes the input in the following order.

① Tuner (frequency display)
② CD1
③ MD/TAPE1
④ CD-R
⑤ VIDEO1
⑥ VIDEO2
⑦ VIDEO3
⑧ VIDEO4(VR-4090 only)
⑨ DVD
⑩ AV AUX
⑪ PHONO

◁ INPUT SELECTOR ▷

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

(VR-4080/KF-V7773D only)
Although VIDEO4 is displayed in the initial status, the receiver cannot be switched to select VIDEO4. The VIDEO4 display will not appear after Remote Control unit has been set up.

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

Audio device

MUSIC

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

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

Video device

MOVIE

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

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

TV key

TV

① TV1
② TV2
③ CABLE

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

How Do I Operate Devices?

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

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

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

Operating a Television

To operate a standard TV:

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

For the keys which are usually available, see "Chapter Trree: Key Layout in Controlling Other Devices" on page 46.

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

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

Operating the cable TV and satellite TV

To operate:

1. Select the input to which you assigned the cable TV or satellite TV tuner (see page 27).
2. Use Remote Control unit to perform same remote control operations as with the remote of the cable TV or satellite TV tuner.

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

Operating an AV Device

To play a VCR, DVD player or LD player:

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

For the keys which are usually available, see "Chapter Trree: Key Layout in Controlling Other Devices" on page 46.

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

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

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

Operating a CD player

Kenwood 200-Disc CD Changer

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

To play Kenwood 200-Disc CD Changer:

1. Select the CD input (see page 27).
2. Use Remote Control unit to perform same remote control operations as with the remote of the CD changer.

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

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

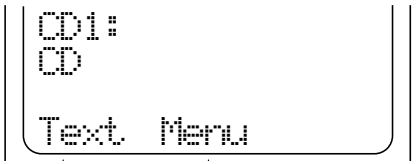
1. Select the CD input and display "Menu".
2. Press the Menu key (LCD function key 2).
3. Select "All Data Read" and press the Enter key (LCD function key 2).
4. Set Remote Control unit down so that its IR transmitter window is aiming at receiver's IR transmitter window. Select Disc Title or Track Title.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

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

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

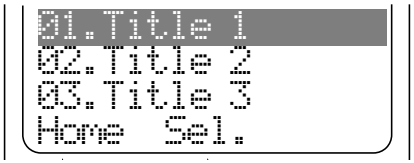
To play discs and tracks by title:

1. Select the **CD** input (see page 27).



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

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



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

Playback will start from the selected track.

The track titles of the presently selected disc can be read by selecting "Track Title" in step 4 of "To read the loaded disc titles and store them in Remote Control unit" on page 30.

Single or Rotary CD Player

1. Select the **CD** input (see page 27).
2. Use Remote Control unit to perform same remote control operations as with the remote of the selected AV device.

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

For the keys which are usually available, see "Chapter Trree: Key Layout in Controlling Other Devices" on page 46.

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

CD-R Recorder

1. Select the **CD-R** input (see page 27).
2. Use Remote Control unit to perform same remote control operations as with the remote of the selected AV device.

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

For the keys which are usually available, see "Chapter Three: Key Layout in Controlling Other Devices" on page 46.

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

Operating an MD Recorder or Cassette Deck

To play an MD or cassette:

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

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

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

For the keys which are usually available, see "Chapter Three: Key Layout in Controlling Other Devices" on page 46.

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

Playing an Analog Turntable

To play an analog disk turntable:

1. Select the Phono input (see page 27).
2. Play an analog disk on the turntable. As this cannot be controlled from Remote Control unit, use the turntable controls.

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

Monitoring a Video Camera or Playing an Additional VCR

1. Select the AV AUX input (see page 27).
2. Play the video camera or additional VCR in the same way as usual.As this cannot be controlled from Remote Control unit, use the video camera or additional VCR controls.

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

Playing a Second CD player or Cassette Deck

1. Press the **CD2/TAPE2 MONITOR** key on the receiver's front panel.

   The **CD2/TAPE2 MONITOR** indicator lights up.
2. Play the CD player or cassette deck in the same way as usual. As this cannot be controlled from Remote Control unit, use the CD player or cassette deck controls.

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

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

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

Radio Tuning

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

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

Preset tuning :

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

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

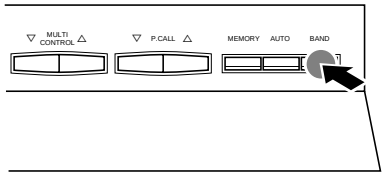
RDS (Radio Data System) is a system where radio stations transmit digital data for FM broadcasts along with the broadcast signal. Tuners and receivers designed for RDS reception can extract the data from the broadcast signal for use with various functions such as automatic display of the station name.

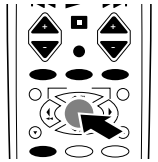
RDS Functions help you:

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

To tune into a radio station:

1. Select the Tuner input (see page 27).
2. Select the **FM** or **AM** band.





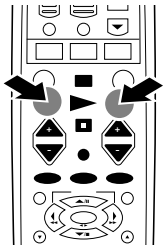
- Press the **BAND** key on the receiver
- Or press the **ENTER** (**BAND**) key on Remote Control unit.

3. Press Remote Control unit's **TUNING** (◄/◄◄, ►/►►) key or the receiver's **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/MONO** keys on Remote Control unit to select Manual tuning. In this mode, each press of the **TUNING** key varies the tuning frequency by one step.

To tune into a preset station:

1. Select the Tuner input (see page 27).
2. Press the receiver's **P.Call** (△/▽) key or Remote Control unit's ⏮ or ⏭ key. Each press of the key switches the preset station (see "Presetting radio stations" below).



When select a preset stasino using the numeric keys: Press the numeric keys as shown below.

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

Storing RDS Station Automatically

The following operation should be performed on the receiver.

1. Select the Tuner input (see page 29).
2. Select the FM band.
3. Press and hold the MEMORY key for more than 2 seconds.

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

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

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

Presetting radio stations

The following operation should be performed on the receiver.

1. Select the Tuner input (see page 27).
2. Tune into a desired station (page 35).
3. Press the **MEMORY** key.
4. Press the **P.CALL** (△/▽) key to display the desired preset memory bank number.
5. Press the **MEMORY** key to preset the station under that number.
6. To preset other stations, repeat steps 2 to 5 for each.

For U.K. and Europe

Program Type Name	Receiver Display
Pop Music	POP M
Rock Music	ROCK M
Easy Music	EASY M
Light Classical Music	LIGHT M
Serious Classical Music	CLASSICS
Other Music	OTHER M
Weather	WEATHER
Finance	FINANCE
Children's programmes	CHILDREN
Social 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

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

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

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

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

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

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

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

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

Recording

To record audio/video:

1. Select the recording input source device such as a **TV** or tuner (see page 27).
2. Use Remote Control unit to select the channel and perform other required operations in the same way as with the remote of the selected AV device.
3. Press and hold the remote's **CONFIRM/SHIFT** key for about 2 seconds so that the **SHIFT** display appears, then select the recording device such as the VCR. For 8 seconds after the CONFIRM/SHIFT key is pressed, the input selection signal is not transmitted from the remote to the receiver even when an input is selected. Therefore, this period can be used to remote control the recording device without changing the input selection.
4. Press the remote's **REC** key to start recording.

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

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

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

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

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

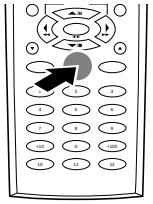
1. Press the **F. SHIFT → REC** (**REC MODE**)* key on Remote Control unit.
2. Select "REC MODE: AUTO or "REC MODE :MANUAL".

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 the LCD Display?

Using Remote Control unit under low light

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



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

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

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

Adjusting the contrast of LCD display

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

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

Adjusting the brightness of receiver

When the ambient light is low, for example in the night, the brightness of the receiver's display can be dimmed and LED indicators (DTS, 96k fs, HDCD, DOLBY DIGITAL, MPEG and D.R.I.V.E. only) can be disabled.

- Press the **F.SHIFT** → **LISTEN M**. (**DIMMER**)* keys. Each press of the **LISTEN M**. key switches the brightness as shown below.

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

Selecting the display mode of receiver front panel

- Press and hold the **LISTEN MODE** key on the receiver for more than 2 seconds.

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

A:	Connected Device **DVD**	Input Type **AUTO**
B:	Input Terminal **VIDEO3 :**	Connected Device **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.

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

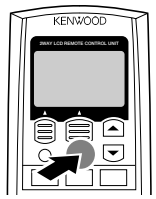
Executing Several Operations at Once (Macro function)

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

Registering a macro

1. Press and hold the **MACRO** key on Remote Control unit for more than 2 seconds.
2. Within 8 seconds, press the **MUSIC** (MACRO1), **MOVIE** (MACRO2) or **TV** (MACRO3) key.
3. Press the control keys in the order you want to execute them.
4. Press the **MACRO** key. Now the registration is complete.
5. Check the macro according to the following "Executing a macro" procedure.

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



Press each key slowly and firmly.

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

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

Example of registration:

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

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

Now the registration is complete.

Executing a macro

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

The registered macro will be executed.

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

Chapter Three: Key Layout in Controlling Other Devices

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

1. Remote control keys

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

   ① Select the device to be controlled by pressing the Music key, Movie key or TV key.
   ② Press the key corresponding to the desired operation.

2. Display keys

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

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

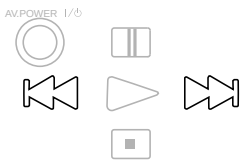
3. F-SHIFT key

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

NOTES

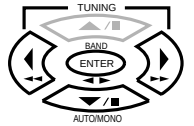
1. Although the remote control unit provided with the receiver has been designed to be used in remote control of multiple devices, there may be certain devices which cannot be remote controlled by it.
2. Certain devices may function differently from the intended function.

Tuner Operation



: P.CALL DOWN

: P.CALL UP

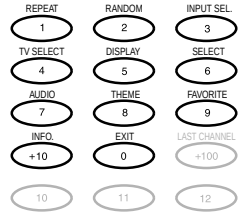


BAND

AUTO/MONO

TUNING ◄

TUNING ►



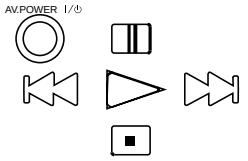
Numeric keys
(0 to 9, +10)

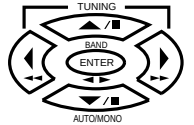
For U.K. only

Display keys

01 : RDS Display.
02 : PTY

Cassette deck Operation





REC : Record (B)

: Play (►) (A)

: Pause (A)

: Stop (A)

: F. Rewind (A)

: F. Forward (A)

ENTER : Play (►) (B)

❚❚ : Pause (B)

◄◄ : F. Rewind (B)

►► : F. Forward (B)

Use with F.SHIFT key :

: Play (◄) (A)

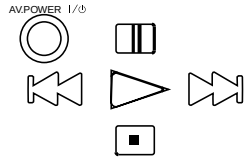
Use with F.SHIFT key :

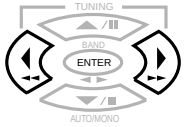
ENTER : Play (◄) (B)

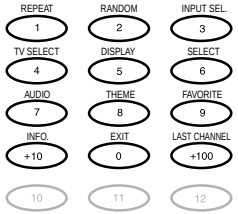
Display keys

01 - 05 : Extend1 - 5

CD Player Operation







: Pause
(there may be certain devices which cannot be remote controlled by it.)

: Play/Pause

: Stop

: Skip (Reverse)

: Skip (Forward)

: Disc select (DISC Up)

: Disc select (DISC Down)

◄◄ : F. Backward

►► : F.Forward

TITLE/GUIDE : Track Title

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

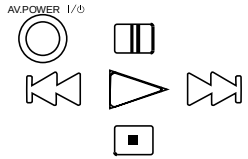
Use with F.SHIFT key :
1 : Repeat
2 : Random
5 : Display

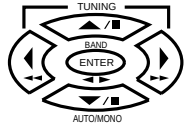
Display keys
01 : Disc sel.
02 : Set
03 : P.Mode
04 : Check
05 : Clear
06 : Disc Title

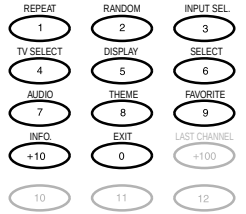
Display keys
07 : Track Title
08 : All Data Read
09 : Subout Mon (Subout Monitor)
10 : Cnts Play (Continuouse Play)
11 : All Info.

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

CD-R Recorder Operation







: Play

: Pause

: Stop

: Skip (Reverse)

: Skip (Forward)

: F. Forward

: F. Backward

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

REC **REC** : Record

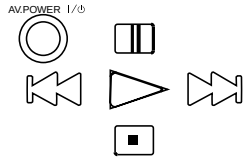
Numeric keys
(0 to 9, +10)

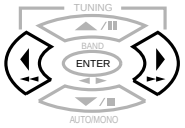
Use with F.SHIFT key :
1 : Repeat
2 : Shuffle/ Random
5 : Display

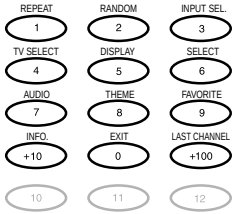
Display keys
01 : Open/Close
02 : CDR Mode
03 : CD Mode
04 : Program
05 : Rec Mute
06 : Clear

Display keys
07 - 11 : Extend1 - 5

MD Player Operation







: Play

: Pause

: Stop

: Skip (Reverse)

: Skip (Forward)

◄◄ : F. Backward

►► : F. Forward

REC : Record

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

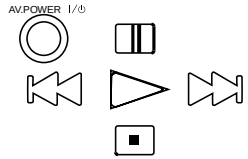
Use with F.SHIFT key :
1 : Repeat
2 : Random
5 : Time

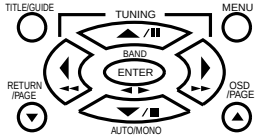
Display keys

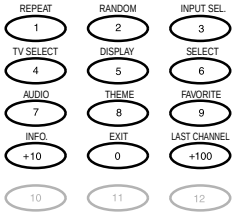
01 - 05 : Extend1 - 5
(there may be certain devices which cannot be remote controlled by it.)

Key Layout

DVD Player Operation







: Play

: Pause

: Stop

: Skip (Reverse)

: Skip (Forward)

: F. Forward

: F. Backward

Use with F.SHIFT key :

: Slow Forward

: Slow Reverse

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

MENU : Menu

TITLE/GUIDE : Title

OSD /PAGE : OSD

RETURN /PAGE : Return

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

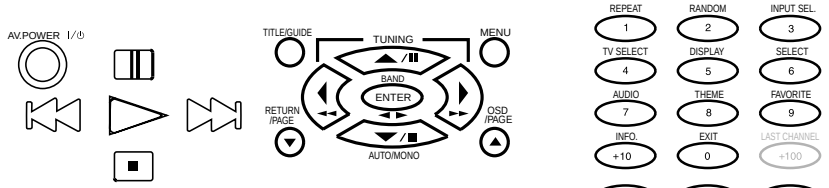
Use with F.SHIFT key :
1 : Repeat
2 : Random
5 : Display
7 : Audio

Display keys

01 : Chapter/Time
02 : Angle
03 : PGM
04 : DVD Setup
05 : Memory
06 : Clear
07 : Repeat A-B
08 : Sub Title
09 : Title Search
10 : Aspect
11 : On/Off
12 - 16 : Extend1 - 5

Key Layout

VCR Operation



: Play

: Pause

: Stop

: F Rewind

: F. Forward

: Channel (Up)

: Channel (Down)

ENTER : Enter

▲ : Cursor Up

▼ : Cursor Down

◄ : Cursor Left

► : Cursor Right

MENU : Menu

TITLE/GUIDE : Guide

REC **REC** : Record

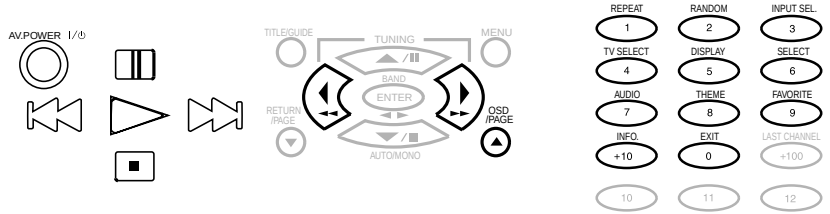
Numeric keys
(0 to 9, +10)

Use with F.SHIFT key :
3 : Input select

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

Display keys
07 - 11 : Extend1 - 5

LD Player Operation



: Play / Pause

: Pause

: Stop

: Skip (Reverse)

: Skip (Forward)

: Slow (Forward)

: Slow (Reverse)

ENTER: Enter

◄ : F. Backward

► : F. Forward

OSD /PAGE : OSD

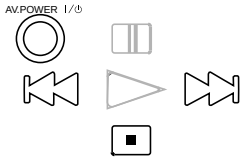
Numeric keys
(0 to 9, +10)

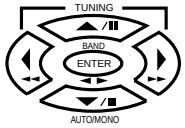
Use with F.SHIFT key :
1 : Repeat
2 : Random
5 : Display

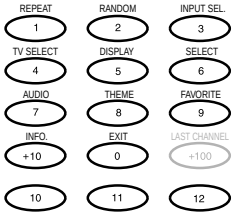
Display keys
01 : Frame/Time
02 : Side A or A/B
03 : Side B

Display keys
04 - 08 : Extend1 - 5

TV Operation







■ : Mute

◄◄ : Volume (Down)

►► : Volume (Up)

Ch + : Channel (Up)

Ch – : Channel (Down)

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

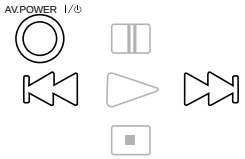
Numeric keys
(0 to 9, +10)

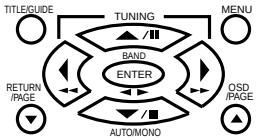
Use with F.SHIFT key :
3 : Video Select
4 : TV Select
7 : Alt. Audio

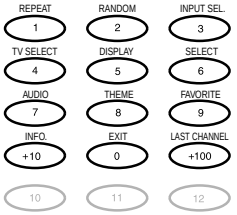
Display keys
01 : – / – –
02 : > 12
03 : Wide
04 : Pic. In Pic. (Picture in picture)
05 : Text/Mix/TV
06 : Text off
07 : Mix
08 : Exit

Display keys
09 - 13 : Extend1 - 5

Cable TV Player Operation







◄◄ :
Volume (Down)

►► :
Volume (Up)

Ch + : Channel (Up)

Ch – : Channel (Down)

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

MENU : Menu

TITLE/GUIDE : Guide

OSD /PAGE : Page Up

RETURN /PAGE : Page Down

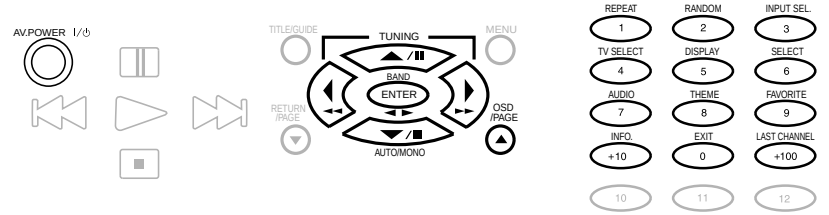
Numeric keys
(0 to 9, +10, +100)

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

Display keys
01 : A
02 : B
03 : C

04 - 08 : Extend1 - 5

Satellite tuner Operation



: Channel (Up)

: Channel (Down)

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

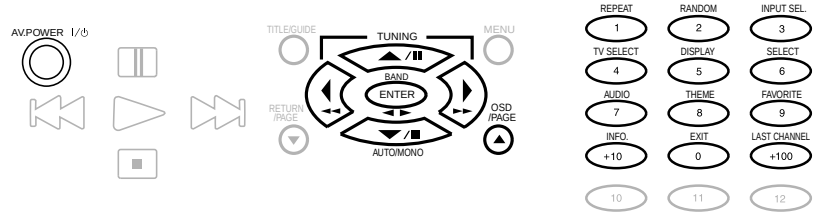
OSD /PAGE : OSD

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

Use with F.SHIFT key :
3 : Input Select
6 : Select
7 : Alt. Audio

Display keys
01 - 05 : Extend1 - 5

DSS Operation



: Channel (Up)

: Channel (Down)

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

MENU : Menu

TITLE/GUIDE : CH Guide

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

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

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

Chapter Four: Troubleshooting

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

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

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

There are some basic steps to good troubleshooting:

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

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

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

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

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

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

   For the VR-4090, VR-4080 and KRF-V7773D, you should also check your Remote Control unit settings carefully. Did you set the input to the correct component? (you can also check the front panel of the receiver) Are you trying to listen to an analog source using a digital connection?

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

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

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

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

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

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

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

Sound

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

- The volume is set at the proper level. See "Adjusting the Volume" on page 10 of this manual.
- Mute is **OFF**. If the **MUTE** indicator on the front of the receiver is blinking, **MUTE is ON**. See "Muting Sound" on page 16 of this manual.
- The proper input (e.g., CD player, Tuner, etc.) has been selected on the Remote Control unit. See "How Do I Operate Devices?" on page 28 of this manual.
- The **CD2/TAPE2 MONITOR** input has not been selected. (If it has, the **CD2/TAPE2 MONITOR** indicator on the receiver's front panel will be lit). See "What's on the Front Panel of Your Kenwood Audio - Video Receiver?" on page 2 of this manual.
- The input mode matches the input signal (e.g., analog vs. digital) that has been set. See "Switching Input modes" on page 22 of this manual.
- The correct Input Mode (e.g., Auto) has been set for the digital input. See "What are Input Modes" on page 21.
- The correct speakers have been activated. See "Turning the Speakers On" on page 14 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.
- If the disc does not have a digital soundtrack, change the input type to Analog. See "Switching Input modes" on page 22 of this manual and also read the manual of your DVD player.
- Change the input type to Analog. See "Switching Input Modes" on page 22 of this manual.

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

Check that:

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

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, 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 components is abnormally loud or soft
Adjust the analog input level for that component: See "Adjusting the input level" on page 15 of this manual.

I can't hear sound from some of my laser discs
Check that the disc contains a digital soundtrack (the disc's cover will bear a "digital sound" logo). Some older laser discs contain only analog soundtracks. If the disc does not have a digital soundtrack, change the input type to Analog. See "Switching Input modes" on page 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 component.
- 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 41.

The initial sound is intermittent or non-existent when I start to play 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 "Switching Input modes" on page 22.

I hear a hum when I select the PHONO input
Check that:

- The audio cables are connected securely to the Phono jack set. See Chapter One of the *Connections and Setup Guide*.
- The turntable is grounded on the receiver. See Chapter One of the *Connections and Setup Guide*.

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

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. S-Video input signals cannot be transmitted via composite (standard) connections and vice versa.
- Check that the correct video input on the TV is selected.
- Check that the video software you record does not have copy guard protection.

Remote Control unit

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

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

My Remote Control unit is not responding

- Make sure you are within the operating range for Remote Control unit. See Chapter Two of the *Connections and Setup Guide*.
- 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*. (For USA, Canada and US Military only)
- Check the contrast of the LCD display is adjusted properly. See "How Do I Adjust the LCD Display" on page 42.

- When the **INPUT MODE** key is pressed for 2 seconds or longer, "RF OFF" will be displayed. In this condition, the main unit can not receive remote control signals. Press the **INPUT MODE** key again for at least 2 seconds to display "RF ON".

The RF remote control function does not work.

- Connect the antenna.
- Make sure that the correct RF band is selected.
- The operation range of the remote control unit will be influenced according to the material of the obstacles between the remote control unit and the receiver. Please confirm that there is no such influence.
- Make sure that no interference from electrical appliances occurs.

Receiver/Tuner

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

Check that:

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

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

(For VR-4090 and VR-4080)

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

(For KRF-V7773D)

1. Turn the receiver off. (The Power switch is OFF position.)
2. Press **ON/STANDBY** key while pressing and holding the Power switch.

The following settings are cleared:

- The component set as input (Tuner is selected by default)—see "How Do I Operate Devices?" on page 28 of this manual.
- The volume setting (-65dB is selected by default)—see "Adjusting the Volume" on page 10 of this manual
- The tuner's receiving band (FM is selected by default)— see "Radio Tuning" on page 35 of this manual
- The tuner's frequency (87.5MHz is selected by default)— see "Radio Tuning" on page 35 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 component you're listening to. (Setting the proper input level eliminates distortion that occurs if a source component's output level is too high. When this happens, the front panel CLIP indicator will flash red continually or remain red for periods of 1 second or longer. Occasional brief flashing of the CLIP indicator is okay). Adjust the analog input level for that component: See "Adjusting the Input level" on page 15 of this manual.

I can't receive a radio station

Check that:

- The appropriate antenna is connected. See Chapter One of the *Connections and Setup Guide.*
- The broadcast band is correct. See "Radio Tuning" on page 35 of this manual.
- The tuner is set to the correct frequency. See "Radio Tuning" on page 35 of this manual.

I can't access any RDS (Radio Data System) functions

- 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 37 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 64 of this manual.
- The Tuner input is selected. See "Radio Tuning" on page 35 of this manual.

Receiver/Tuner

Troubleshooting

Numerics

200-Disc CD Changer
- operating 30
- playing CDs 30, 31
- reading and storing disc titles 30

A

adjusting Remote Control unit display 42
analog input, switching 22
AV AUX front panel 3

C

CD player
- operating 30, 32

CD2/TAPE 2 MONITOR indicator light 3
changing front panel display 43
components
- operating 28

CONFIRM/SHIFT key 4
custom macros
- executing 45
- registering 44

D

Digital Signal Processor (DSP) effects 17
digital to analog recording 41
dimming receiver front panel 43
display screen
- adjusting 42

Dolby Digital **18**
DTS 18
DVD player
- operating 29

H

headphones
- jack 3
- using 26

home-theater sound 17

I

Input Analog mode 21
IR transmitters 3
items on Remote Control unit 4

L

laser disc player, operating 29
LCD display screen 6
listen modes
- defined 17
- Dolby 3 Stereo 17
- Dolby Digital 18
- Dolby Pro Logic 17
- DSP (Digital Signal Processer) 17
- DTS 18
- MPEG 17
- setting manually 19

M

macros
- executing 45
- registering 44

MD recorder, operating 33
Midnight Theatre function 16
mute key 5
muting sound 16

O

operating
- devices 28
- macros 44
- range 7

P

PHONO input 34
Power indicator light 3
Power On/Standby key 3
preset stations 37

R

radio stations 35
reading and storing CD titles 30
receiver
- changing display mode 43
- dimming front panel 43
- items on front panel 3

recording 40

S

satellite TV, operating 28
searching
- specific radio programs 39

setting
- DSP effects 24
- input mode manually 22
- listen mode manually 19

sound
- adjusting 9
- tone, adjusting 11

speakers
- levels, adjusting 14
- loudness, adjusting 13
- selector keys on receiver 9

Surround play 20
surround sound
- listen modes 17

switching
- to analog input 22

T

tape deck
- operating 33, 34

tuner
- operating 36

turntable
- operating 34

TV
- operating 28

U

using
- macros 44
- Remote Control unit in the dark 42

V

VCR
- operating 29
- recording 40

volume
- adjusting 10
- control knob 3
- down key 4
- up key 4

Index

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