

Digital Receiver User's Guide

look

Main Guide



1:30pm

2:00

and a Funeral

For

Year weddings and a Funeral

Apollo 13

Ap

Worldview

SportsCenter

The Razor's E

Top 10 Video Co

RCA

Safety Information

WARNING

To reduce risk of fire or shock hazard, do not expose this receiver to rain or moisture.

WARNING

RISK OF ELECTRIC SHOCK
DO NOT OPEN



This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.



This symbol indicates important instructions accompanying the product.

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Cautions

Do not stack electronic components or other objects on top of the receiver. The slots on top of the receiver must be left uncovered to allow proper airflow to the unit. Blocking the airflow to the unit could impair performance or damage your receiver and other components.

Do not stack the receiver on top of a "hot component" such as an audio power amplifier.

Refer to the accompanying Important Safeguards pamphlet for additional information concerning the safe use of this product.

Note to Cable TV Installer:

This reminder is provided to call your attention to Article 820-40 of the National Electrical Code (Section 54 of the Canadian Electrical Code, Part 1) which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

Note to Antenna Installer:

This reminder is provided to call your attention to Article 810 and in particular article 810-15 of the National Electrical Code (Section 54 of the Canadian Electrical Code, Part 1) which covers proper installation and grounding of television receiving equipment as well as to article 820-40 of the National Electrical Code (Section 54 of the Canadian Electrical Code, Part 1) which specifies that the satellite dish cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

IMPORTANT NOTICE:

This device incorporates an anticopy process technology that is protected by U.S. patents and other intellectual property rights. The anticopy process is licensed for non-commercial, home use only. Reverse engineering or disassembly is prohibited.

Care and Cleaning:

Use a soft cloth or dusting attachment of your vacuum cleaner to dust your receiver. Remove dust from the ventilation holes on the top and bottom.

Plastic surfaces are easily scratched and can be marred by alcohol and various solvents. Avoid excessive use of oil-based furniture polishes since the materials used in the cabinet will accumulate more dust. A non-abrasive, anti-static cleaner/polisher is recommended.

StarSight-Licensed: The manufacture and sale of the television schedule feature of this product was licensed under one or more of the following patents of StarSight Telecast, Inc.; U.S. Patent Nos. 4,706,121; 4,977,455; 5,151,789; 5,335,277; and 5,353,121.

Table of Contents

Setup and Connections	3
Step 1: Unpack the Digital Receiver	4
Step 2: Place Batteries in the Remote Control	4
Step 3: Connecting Your Receiver to Your TV and VCR	4
Basic Connection	7
Advanced Connection	8
A/V Receiver Connection	9
Step 4: Connecting the VCR Controller	10
Attaching the VCR Controllers	10
Step 5: Plug in and Turn on the System	11
Step 6: Find the Video Input on Your TV	11
Step 7: Set the VCR Code	12
Using the Remote	15
Remote Control Buttons	16
The Point and Select Method	17
Programming the Remote Control	17
The Menu System	21
The Main Menu	22
Exiting a Menu Screen	22
Main Menu Items	23
What is a Program Guide?	24
Getting Around in the Guides	25
Tuning to a Channel from the Guide	26
Getting Information on a Program	26
Exiting the Program Guide	28
Customizing the Program Guide	28
Pay-Per-View Programs	30
Reviewing Past and Scheduled Purchases	32
Locking and Unlocking the System	33
Setting the Spending Limit	34
Profiles	35
Especially for Parents	35
Creating and Editing a Profile	36
Setting the Rating Limits	37
Choosing Your Profile	39
Timers	40
The Mailbox	41
The Set-Up & Test Menu	42
System Test	42
Audio Choice	42
Picture Format	43
Index	45

Setup and Connections

Getting Started

This manual is designed to get you started quickly. It first introduces you to your digital receiver system, then shows you how to use the on-screen guides and menus.

In *Setup and Connections*, you'll learn:

- about the jacks and cables
- things to know before connecting the components
- different ways to connect the receiver to your TV

Using the Remote defines the buttons of the remote and how to program it.

The Menu System details the items and features associated with the different guides and menus.

1 Setup and Connections



2 Using the Remote



3 The Menu System

Setup and Connections

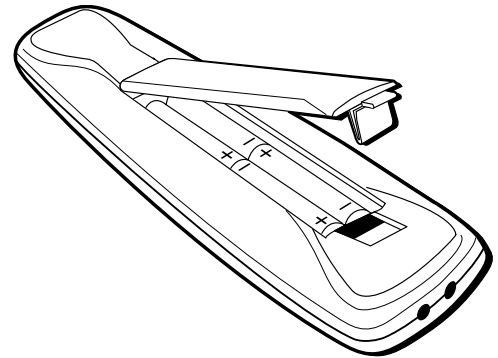
Step 1: Unpack the Digital Receiver

Make sure to locate the remote control.

Step 2: Place Batteries in the Remote Control

Follow these steps whenever you need to install or change the batteries in your digital receiver remote.

1. Remove the cover from the battery compartment.
2. Insert batteries in the battery compartment, matching the + and - end of each battery.
3. Replace the cover.



Step 3: Connecting Your Receiver to Your TV and VCR

The following sections provide cable and connection information to help you decide what connection is best for you. Depending on what components you have, another connection may provide better picture and audio quality.

To receive signals, your digital receiver must be connected to a digital antenna. This antenna must be installed by a certified, professional installer. Do not attempt to install the digital antenna yourself.

Things to Know Before Connecting Components

Protect Your Components from Power Surges

- Connect all components before plugging any power cords into the wall outlet.
- Always turn off the digital receiver, TV and other components before you connect or disconnect any cables.

Position Cables Correctly to Avoid Audio Hum or Interference

- Insert all cable plugs firmly into their jacks.
- Place the audio/video cables to the sides of the TV's back panel instead of straight down the middle after you connect your components.
- Try not to coil any twin-lead cables and keep them away from the audio/video cables as much as possible.
- Make sure all antennas and cables are properly grounded. Refer to the Safety Tips sheet packed with your unit.

Setup and Connections

Protect Your Components from Overheating

- Do not block ventilation holes in any of the components. Arrange the components so that air can circulate freely.
- Do not stack components.
- Allow adequate ventilation when placing your components in a stand.
- Place an amplifier or digital receiver on the top shelf of the stand so heated air rising from it will not flow around other components.

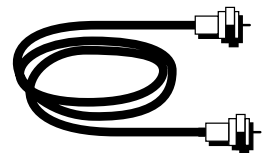
Jacks and Cables

RF Jacks and Coaxial Cables (F-type)

The RF jacks provide good picture and mono sound quality, and are to be used if audio/video connections are not available for your TV.



RF Jack



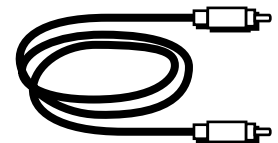
Audio/Video Jacks and Cables (RCA-type)

The audio/video jacks provide very good picture and stereo sound quality, and should be used if your TV has no S-Video jack.

These jacks are used for most audio/video connections between components. The digital receiver audio/video jacks are color coded (yellow for video, red for right audio, and white for left audio). If your TV has only one input for audio (mono), connect it to the left (white) audio jack on the digital receiver.



Audio/Video Jacks



S-Video Jack and Cable

The S-Video jack provides the best picture quality for your digital receiver system.

This jack is available on many TVs and is used in conjunction with audio cables to connect the digital receiver to your TV. Remember also to connect the left and right audio cables because the S-Video jack carries only the picture signal, not the sound.



S-Video Jack

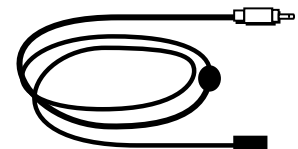


VCR Controller Jack and Cable

The VCR controller cable plugs into a jack on the digital receiver's back panel. The other end of the cable affixes to your VCR's remote sensor.



VCR Controller Jack



Setup and Connections

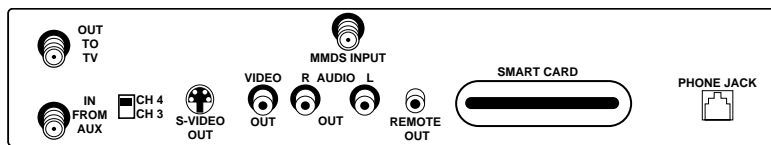
Back of the Receiver

The diagram below describes each of the back panel jacks found on your digital receiver. When connecting A/V cables, be sure to connect corresponding OUTPUTS and INPUTS (Video to Video, Right Audio to Right Audio, etc.).

OUT TO TV Use to connect the digital receiver to your TV. However, if your TV has audio/video jacks, you should use those jacks to get better picture and sound quality.

SMART CARD Identifies you to your program providers. The digital receiver system requires a valid smart card.

IN FROM ANT Use to connect the digital receiver system to an alternative off-air antenna or cable TV signal.



S-VIDEO Provides the best picture quality. If your TV has S-VIDEO capability, use this jack along with the audio/video jacks to connect the digital receiver to your TV.

AUDIO/VIDEO Provide better sound and picture quality than the OUT TO TV jack. If your TV has audio/video capability, use these jacks to connect the digital receiver to your TV. You must also connect the VIDEO jack.

Setup and Connections

Basic Connection

How to View Your Components

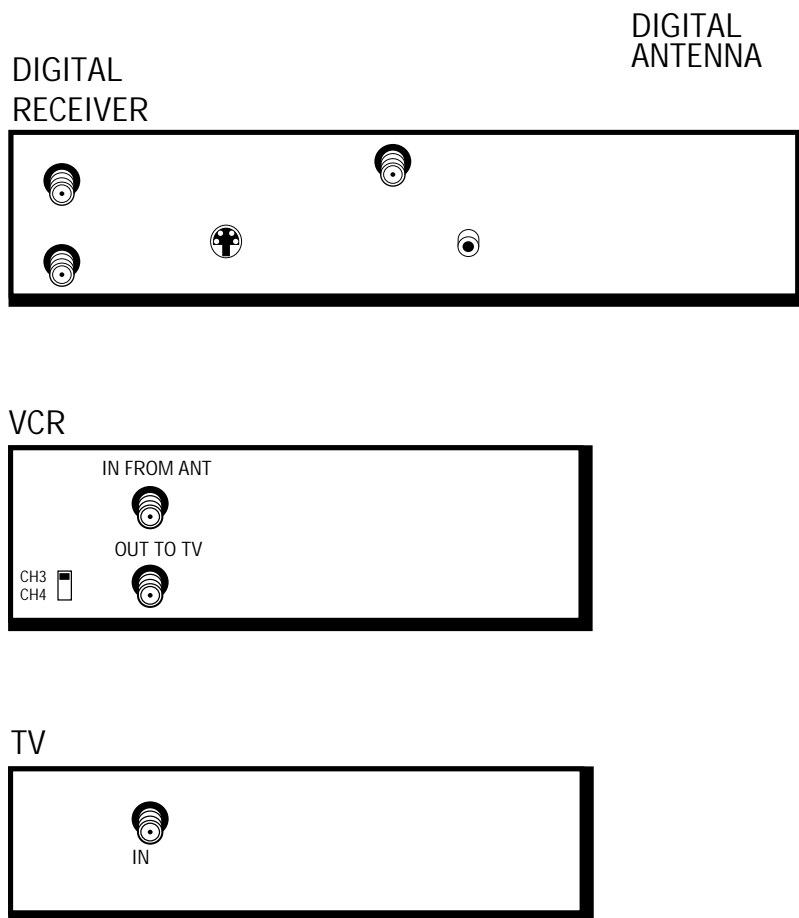
To watch the digital receiver in this connection, tune the TV to CH 3 or 4. You may change the output channel.

To record programming, tune the receiver to the desired channel and set your VCR to record on channel 3 or 4.

To view VCR recordings, tune the TV to the VCR output channel (usually CH 3 or 4) and set your VCR to play. If your VCR is a brand other than RCA, GE, or ProScan, you may need to program the remote to control the VCR. See the next section, Programming the Remote.

CAUTION

Do not stack electronic components or other objects on top of the digital receiver. See Safety Information, inside front cover.



Setup and Connections

Advanced Connection

How to View Your Components

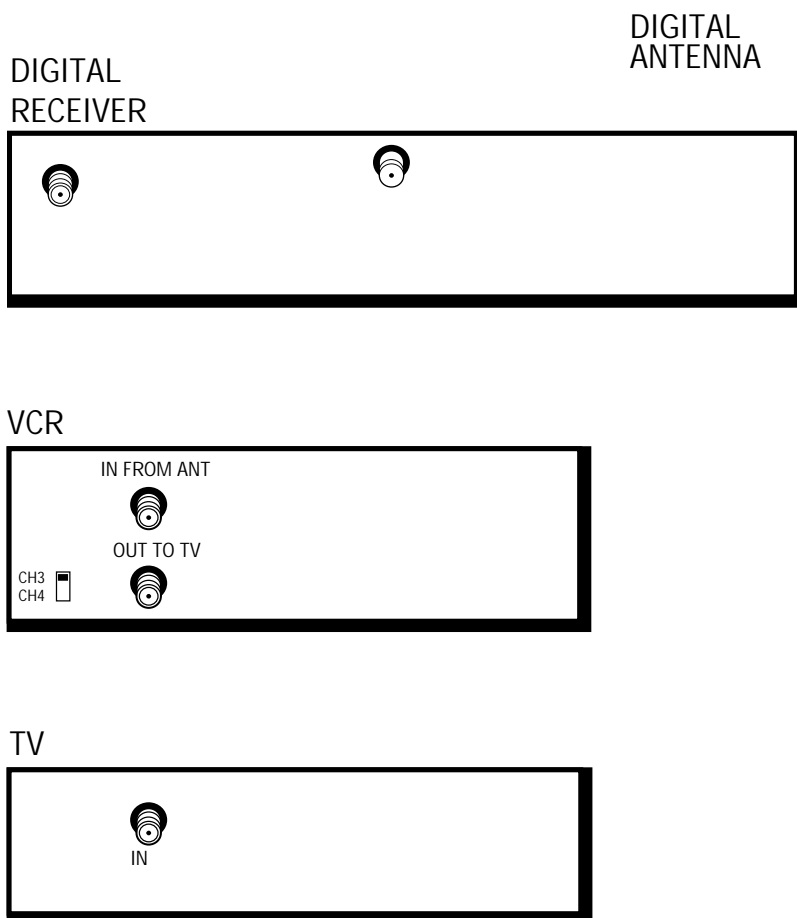
To watch the digital receiver in this connection, tune the TV to the video input channel. (To find your TV's video input channel, follow Step 4). Then tune the receiver to the desired channel.

To record programming, tune the receiver to the desired channel. Then set your VCR to record on channel 3 or 4.

To view VCR recordings, tune the TV to the VCR output channel (usually channel 3 or 4) and set your VCR to play. If your VCR is a brand other than RCA, GE, or ProScan, you may need to program the remote to control the VCR. See the next section, *Programming the Remote*.

CAUTION

Do not stack electronic components or other objects on top of the digital receiver. See Safety Information, inside front cover.



Setup and Connections

A/V Receiver Connection

How to Listen to Programming

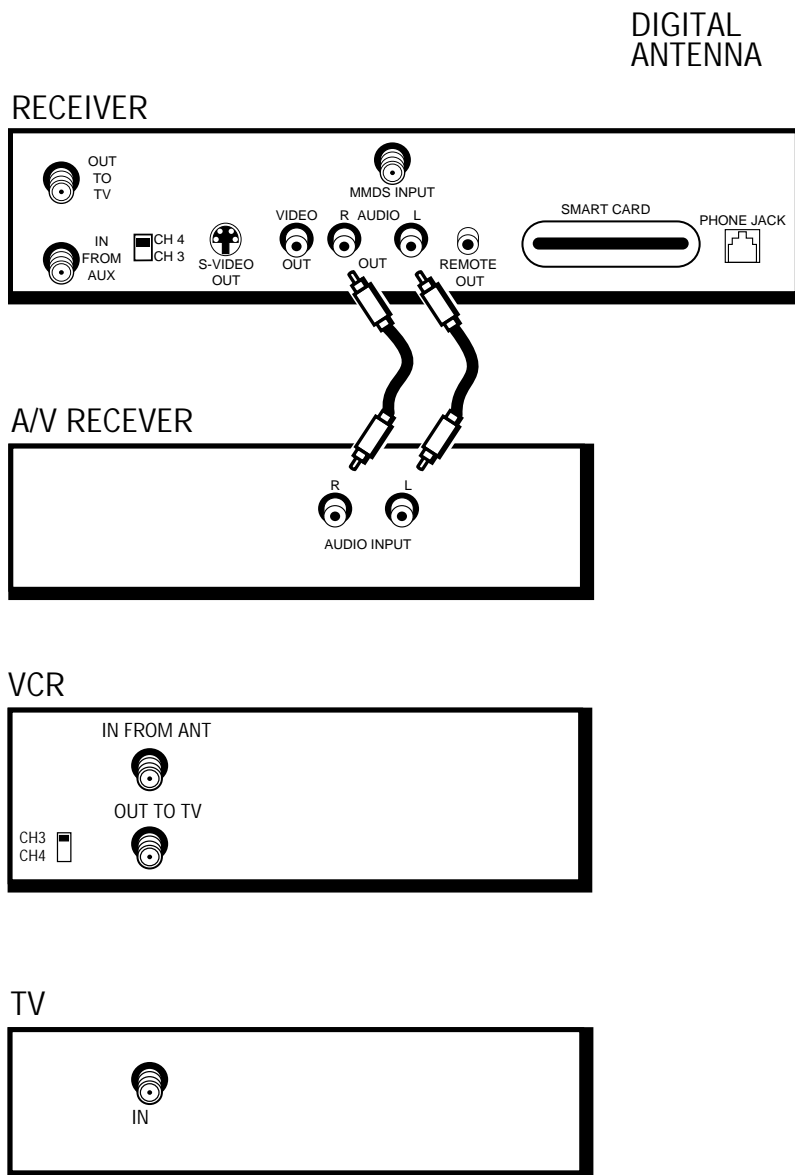
To listen to programming using optional audio equipment, connect an A/V receiver to the digital receiver. Use RCA-type audio cables to connect the digital receiver's left and right audio out jacks to the A/V receiver's left and right audio in jacks.

This connection provides stereo sound output to your stereo equipment. Sound quality may vary depending on the type of equipment you use.

To listen to digital receiver audio, tune the digital receiver to a program. Turn the A/V receiver on and tune to the A/V receiver's audio input.

CAUTION

Do not stack electronic components or other objects on top of the digital receiver. See Safety Information, inside front cover.



Setup and Connections

Step 4: Connecting the VCR Controller

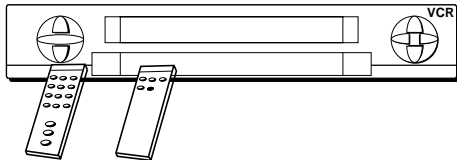
The VCR Controller enables the digital receiver to control your VCR so that you can record a program from the program guide.

After you have affixed the ends of the controller to the VCR, you will use the on-screen menu system to test the connected devices.

Attaching the VCR Controllers

Some components label the infrared remote sensor, and others do not. If your component is labeled, affix the VCR controller directly over the sensor. For components that do not label the remote sensor, you need to use the component's remote control to locate the sensor.

1. Hold the VCR's remote control (not the remote that came with your digital receiver) so that it is touching the front of the VCR.
2. Slowly move the remote over the front of the VCR while pressing the remote power button on and off. (Be sure to press and release the power button each time you move the remote. Holding the button may not work.)



Setup and Connections

STEP 5: Plug in and Turn on the System

Plug the end into the wall outlet, matching the wide blade of the plug with the wide slot in the outlet. Be sure to insert the plug completely.

To turn on the system, press the LOOK button on the remote or the POWER button on the front panel. If your TV brand is RCA, GE, or ProScan, press the TV button on the remote to turn on the TV. If your TV brand is not RCA, GE, or ProScan, see the next section, Using the Remote, for details on how to use the remote to control your TV.

Step 6: Find the Video Input on Your TV

- Note: You do not need to complete this step if you used the basic connection.

If you used the advanced connection, you must tune your TV to the Video Input Channel to see the digital receiver menu screens. Since there are so many brands and models of TVs, there are just as many ways to access a TV's Line Input Channel. Below are some things you can try.

- If your TV brand is RCA, GE, or ProScan, press TV on the remote that came with your digital receiver. Then press the INPUT button on the remote.
- If your TV brand is not RCA, GE, or ProScan, consult your TV Owner's Manual.

If you cannot find your TV Owner's Manual, you will have to investigate. You might access the TV's Video Input Channel by:

- pressing a button on the remote
- finding it through the TV's menu system
- tuning directly to it by pressing a specific channel number
- going through all channels in the list by pressing the channel up or down buttons on the TV.

The video channel variations table at the right lists some of the different ways manufacturers label the Video Input Channel.

Video Channel Variations

Button/switch on the TV	Button on the TV Remote	Channel #
VIDEO	VID 1	00
SIGNAL	LINE	90
VID 1	VID	91
VID 2	VIDEO	92
S-VID	S-VID	VID 1
S-VIDEO	INPUT	VID 2
	SOURCE	
	AUX	

Setup and Connections

Step 7: Set the VCR Code

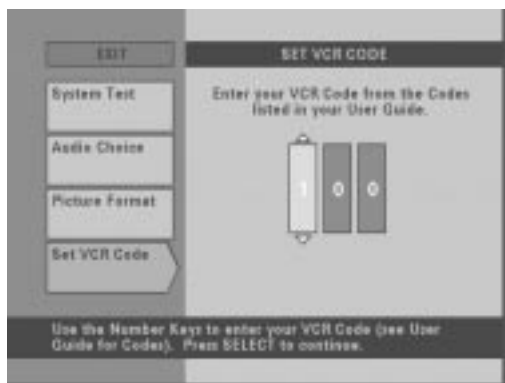
To complete this step, make sure you have connected the VCR controller as described in step 4. To control your VCR, you will then need to tell the digital receiver which VCR brand you are using. This is done by selecting *Set VCR Code* from the Set-up & Test menu.

1. Make sure your TV is tuned to the channel that displays the digital receiver picture, i.e. channel 3,4 or the Video Input channel.
2. Press the LOOK button on the remote control. The receiver should turn on.
3. Press the MENU•SELECT button. The Main menu should appear on the TV screen.



Press MENU•SELECT to bring up the Main menu.

4. Press the down arrow on the remote until the menu item *Set-up & Test* is highlighted on the menu screen, then press MENU•SELECT.
6. Press the down arrow on the remote control until the menu item *Set VCR Code* is highlighted, then press MENU•SELECT.
7. Use the arrows or digit keys to input the correct code for your VCR brand. The VCR Codes are located on the following page.

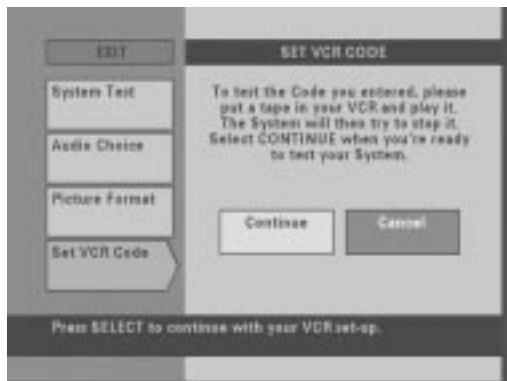


Use the arrows to enter a VCR code.

Read the section Using the Remote Control for more information about programming the remote to control TVs and VCRs.

Setup and Connections

- Follow the on-screen instructions to ensure that you are using the correct code. If the VCR automatically stops tape play, then you know that the receiver and the VCR are communicating.



Note: Some older VCR brands may not be capable of being controlled by the digital receiver.

Follow the on-screen instructions to complete the set-up.

VCR Codes

Aiwa	015	Multitech	007, 015, 031, 032
Akai	003, 017, 022, 023, 063, 066	NEC	002, 014, 016, 030, 044, 046, 059, 061, 064
Audio Dynamics	014, 016	Panasonic	008, 053, 075, 077
Broksonic	010	Pentax	005, 035, 044
Candle	007, 009, 013, 044, 045, 046, 052	Pentex Research +	046
Cannon	008, 053	Philco	008, 029, 053, 056
Capehart	001	Phillips	008, 029
Citizen	007, 009, 013, 044, 045, 046, 052	Pioneer	005, 016, 033, 050
Colortyme	014	Portland	044, 045, 052
Craig	007, 012	ProScan	000
Curtis-Mathes	000, 007, 008, 014, 015, 044, 046, 053, 064, 067	Quartz	002
Daewoo	013, 045, 052, 076	Quasar	008, 053
DBX	014, 016	RCA	000, 005, 007, 008, 028, 035, 037, 054, 069
Dynatech	015	Radio Shack/ Realistic	002, 006, 008, 009, 012, 015, 019, 027, 043, 053
Electrohome	027	Samsung	007, 013, 022, 032, 042
Emerson	008, 009, 010, 013, 015, 020, 023, 027, 034, 041, 042, 047, 049, 057, 062, 065, 067, 068, 070	Sansui	016
Fisher	002, 012, 018, 019, 043, 048, 058	Sanyo	002, 012
Funai	015	Scott	004, 013, 041, 049, 068
GE	000, 007, 008, 032, 053	Sears	002, 005, 009, 012, 018, 019, 035, 043, 048
Goldstar	009, 014, 046, 060	Sharp	006, 024, 027, 039, 045
Harman Kardon	014	Shintom	017, 026, 031, 055
Hitachi	005, 015, 035, 036	Sony	017, 026, 038
Instant Replay	008	Sylvania	008, 015, 029, 053, 056
JCL	008	Symphonic	015
JC Penney	002, 005, 007, 008, 014, 016, 030, 035, 051, 053	Tandy	002, 015
JVC	002, 014, 016, 030, 046	Tashiko	009
Kenwood	002, 014, 016, 030, 044, 046	Tatung	030
KLH	073	Teac	015, 030, 069
Lloyd	015	Technics	008
Logik	031	Teknika	008, 009, 015, 021
Magnavox	008, 029, 053, 056	Toshiba	005, 013, 019, 048, 049
Marantz	002, 008, 014, 016, 029, 030, 044, 046, 061	Totevision	007, 009
Marta	009	TMK	067
MEI	008	Unitech	007
Memorex	008, 009, 012, 015	Vector Research	014, 016, 044
MGA	004, 027	Victor	016
Midland	032	Video Concepts	014, 016, 044
Minolta	005, 035	Videosonic	007
Mitsubishi	004, 005, 027, 035, 040	Wards	005, 006, 007, 008, 009, 012, 013, 015, 025, 027, 031, 035
Montgomery Ward	006	Yamaha	002, 014, 016, 030, 046
MTC	007, 015	Zenith	011, 017, 026, 072

Using the Remote

How to use your Universal Remote

This section defines the buttons on the remote and describes how to program it.

The universal remote can be programmed to control most brands of remote controllable TVs. If you have an RCA, GE, or ProScan TV or VCR, you probably don't need to program it at all.

1 Setup and Connections



2 Using the Remote



3 The Menu System

Using the Remote

Remote Control Buttons

LOOK Turns on the digital receiver and tells the remote to control the digital receiver system functions.

POWER Turns the device you are controlling on or off.

VCR Tells the remote to control the VCR.

TV Tells the remote to control the TV.

INPUT In TV mode, press the INPUT button one or more times to toggle through the available video inputs connected to the TV. In VCR or LOOK mode, performs the antenna switch function.

SELECT•MENU Brings up the Main menu. If you are already in the menu system, press SELECT•MENU to select a highlighted choice.

GUIDE Brings up the on-screen program guide. Press the GUIDE button several times to toggle through the different types of guides.

ARROWS Use the navigation arrows to move the on-screen highlight up, down, left, or right. Using the arrows to highlight a menu item is also called "pointing."

PPV (Pay-Per-View) In LOOK mode, pressing PPV tunes the digital receiver to the preview channel. Press PPV a second time to display the five-line pay-per-view guide.

INFO Brings up the on-screen channel marker and provides program details.

LAST CH Moves you back and forth between your last two selected channels.

DIGIT KEYS (0 - 9) Use the digit keys to tune directly to a channel. If you are in the menu system, use the digit keys to enter numbers for the time, date, channel and passwords.

CHAN UP/DOWN Use to scan up and down through the channels in the current channel list. If you are in the program guide or menu system, use the CHAN UP/DOWN buttons to page up and down a screen at a time.

VOL UP/DOWN Adjusts the audio volume.

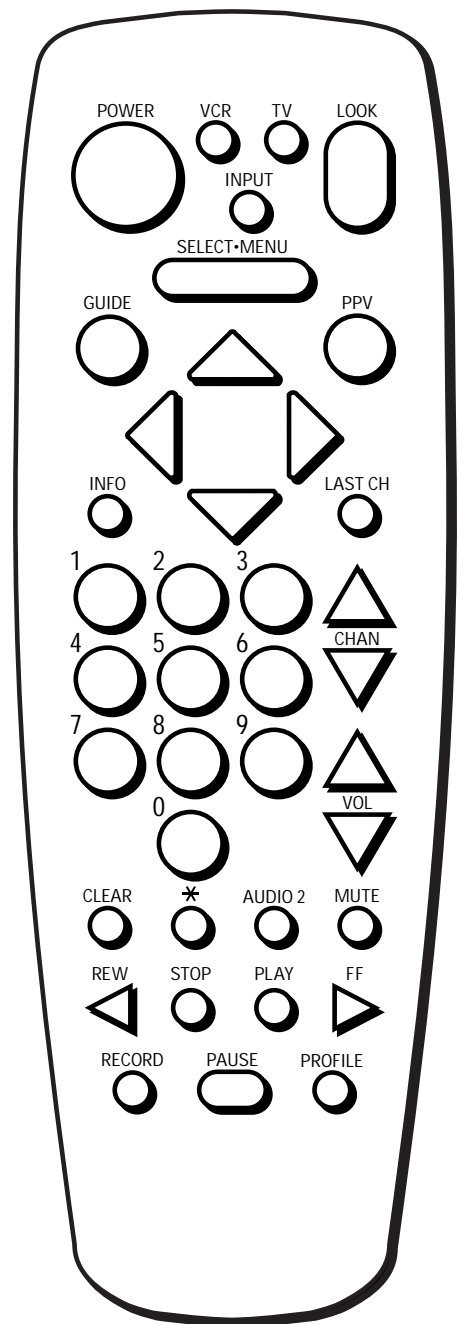
CLEAR Removes the on -screen displays and returns to normal viewing.

AUDIO 2 Use to toggle through the available languages or audio types for a program.

MUTE Reduces the TV's volume to its minimum level. Press again to restore the volume.

TRANSPORT Buttons (REVERSE, PLAY, FORWARD, RECORD, STOP, PAUSE) Use when controlling a VCR. The RECORD button is used to schedule a timer recording when using a program guide.

PROFILE In Look mode, pressing PROFILE toggles between the Main Profile and four individual User's Profiles.



Using the Remote

The Point and Select Method

Point and Select is the two-step method you use to navigate through the menu system and program guides. Once you know how to point and select, you can explore the digital receiver system menus.

1. Point

You point by pressing the arrow keys on the remote or front panel. Pressing the arrow keys moves the on-screen highlight to different items in the program guide and the menu screens. Pressing an arrow once moves the highlight one space in the direction of the arrow.

For example, to point down (that is, to move the highlight toward the bottom of the screen), press the down arrow. To point right, press the right arrow.

2. Select

Once you have pointed to an item on the screen, select it by pressing the MENU button on the remote or front panel. Selecting an item tells the menu system to go ahead and make the change you have indicated.

For example, the instructions in the User's Manual might tell you to Point to the on-screen *Movies* button and press MENU.

Programming the Remote Control

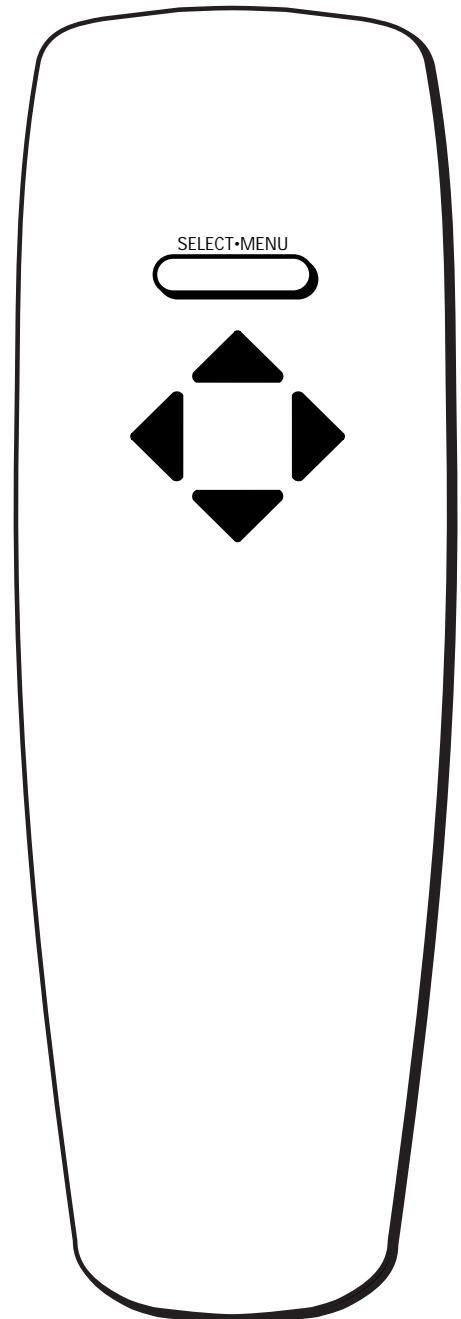
The remote can be programmed to control most brands of remote controllable TVs and VCRs. The remote is programmed to control most RCA, GE and ProScan TVs and VCRs. The remote needs to be programmed to control other manufacturers' brands.

Modes of Operation

Because this universal remote can control the digital receiver, the TV and a VCR, it uses operational modes triggered by the component buttons. For example if you want the remote to control the TV, you would press the TV button to put the remote into TV mode before you could control the TV.

Testing the Remote

To determine whether the remote needs to be programmed, turn on the TV, point the remote at the TV, and press the TV button. Then press POWER or CH ^ (channel up) or CH v (channel down) to see if the TV responds to the remote commands. If not, the remote needs to be programmed.



Don't worry about getting stuck inside a menu. Pressing the CLEAR button on the remote takes you out of the menu system and back to the program you were watching.

Using the Remote

Programming the Remote to Control the TV

1. Turn on the TV.
2. Look up the brand and code number(s) for the TV on the code list below.
3. Press and hold the TV button.
4. While still holding down the TV button, enter the code from the TV code list.
5. Release the button, and then press the POWER button to see if the component responds to the remote commands. If it doesn't, try pressing the TV button and then POWER again.
6. If you get no response, repeat these steps using the next code listed for your brand until the TV responds to the remote commands.

This remote may not operate all models of the brands that are shown. Use the codes shown in this manual, or on the sheet packed with your remote.

TV Codes

Akai	002	NEC	011, 014, 019, 027, 038, 084
Anam National	038	Panasonic	012, 013, 038, 086
AOC	011, 019, 027, 088	Penney	000, 008, 011, 019, 027, 040, 068, 077, 086, 088
Candle	011, 027, 033	Philco	006, 007, 010, 011, 013, 016, 019, 027, 033,
Citizen	011, 027, 033, 064	.....	035, 037, 038, 043, 087, 089
Colortyme	011, 027, 084	Philips	002, 006, 007, 010, 011, 013, 016, 033,
Concerto	011, 027	.....	035, 037, 038, 043, 066, 073
Contec/Cony	036, 037, 040, 042, 064	Pioneer	011, 027, 045, 062, 093
Craig	064	Portland	011, 019, 027, 037
Curtis Mathes	000, 011, 015, 027, 037	ProScan	000
CXC	064	Proton	011, 027, 037, 072
Daewoo	011, 019, 027	Quasar	012, 038, 092
Daytron	011, 027	Radio Shack	000, 021, 025, 036, 037, 059, 064, 078
Electrohome	006, 011, 014, 027, 038, 061, 068	RCA	000, 006, 011, 012, 019, 027, 034, 038,
Emerson	011, 026, 027, 028, 029, 030, 031, 032, 037, 042,	.....	044, 046, 072, 088, 100
.....	053, 064, 065, 067, 075, 076, 078, 079	Realistic	021
Envision	011, 027	Sampo	011, 027
Fisher	017, 021, 039, 041	Samsung	006, 011, 014, 015, 019, 027, 036, 037, 077
Funai	064	Sanyo	017, 021, 039, 056, 057, 058
GE	000, 008, 009, 011, 012, 027, 038, 068, 086, 089, 091	Scott	028, 037, 064
Goldstar	003, 004, 006, 011, 019, 027, 037, 050	Sears	000, 006, 011, 014, 017, 018, 021, 023,
Hallmark	011, 027	.....	027, 039, 040, 041, 051, 071, 083
Hitachi	009, 011, 027, 036, 037, 040, 047, 063, 080	Sharp	011, 020, 025, 027, 037, 052, 053, 059, 060
Infinity	013	Sony	002
JBL	013	Soundesign	011, 027, 033
Jensen	011, 027	Sylvania	006, 007, 010, 011, 013, 016, 027,
JVC	012, 024, 036, 037, 040, 048, 051, 074	.....	033, 035, 043, 049, 066, 087, 089
Kawasho	002, 011, 027	Symphonic	064, 076
Kenwood	006, 011, 014, 027	Tatung	038
Kloss Novabeam	035, 043	Technics	012
KTV	078	Techwood	011, 027
Loewe	013	Teknika	011, 019, 027, 033, 036, 037, 040, 066
Luxman	011, 027	Telecaption	090
LXI	013, 018, 021, 023, 054	TMK	011, 027
Magnavox	006, 007, 010, 011, 013, 016, 027,	Toshiba	018, 021, 023, 040, 071, 077, 085
.....	033, 035, 043, 049, 066, 087, 089	Universal	008, 009
Marants	013	Victor	051
Marantz	011, 013, 027, 069	Vidtech	019, 027
MGA	006, 011, 014, 019, 022, 027, 041, 056, 061, 068	Wards	000, 005, 006, 007, 008, 009, 010, 011, 013, 019,
Mitsubishi ...	006, 011, 014, 019, 022, 027, 041, 055, 056, 061, 068	.....	025, 027, 028, 035, 043, 059, 066, 076, 082, 089
MTC	011, 019, 027	Yamaha	006, 014, 019, 027
Multivision	081	Zenith	001
NAD	018, 023		

Using the Remote

Programming the Remote to Control the VCR

1. Turn on the VCR.
2. Look up the brand and code number(s) for the VCR on the code list below.
3. Press and hold the VCR button.
4. While still holding down the VCR button, enter the code from the VCR code list.
5. Release the button, and then press POWER button to see if the VCR responds to the remote commands. If it doesn't, try pressing the VCR button and then POWER again.
6. If you get no response, repeat these steps using the next code listed for your brand until the VCR responds to the remote commands.

This remote may not operate all models of the brands that are shown. Use the codes shown in this manual, or on the sheet packed with your remote.

VCR Codes

Aiwa	015	Multitech	007, 015, 031, 032
Akai	003, 017, 022, 023, 063, 066	NEC	002, 014, 016, 030, 044, 046, 059, 061, 064
Audio Dynamics	014, 016	Panasonic	008, 053, 075, 077
Broksonic	010	Pentax	005, 035, 044
Candle	007, 009, 013, 044, 045, 046, 052	Pentex Research +	046
Cannon	008, 053	Philco	008, 029, 053, 056
Capehart	001	Philips	008, 029
Citizen	007, 009, 013, 044, 045, 046, 052	Pioneer	005, 016, 033, 050
Colortyme	014	Portland	044, 045, 052
Craig	007, 012	ProScan	000
Curtis-Mathes	000, 007, 008, 014, 015, 044, 046, 053, 064, 067	Quartz	002
Daewoo	013, 045, 052, 076	Quasar	008, 053
DBX	014, 016	RCA	000, 005, 007, 008, 028, 035, 037, 054, 069
Dynatech	015	Radio Shack/ Realistic	002, 006, 008, 009, 012, 015, 019, 027, 043, 053
Electrohome	027	Samsung	007, 013, 022, 032, 042
Emerson	008, 009, 010, 013, 015, 020, 023, 027, 034, 041, 042, 047, 049, 057, 062, 065, 067, 068, 070	Sansui	016
Fisher	002, 012, 018, 019, 043, 048, 058	Sanyo	002, 012
Funai	015	Scott	004, 013, 041, 049, 068
GE	000, 007, 008, 032, 053	Sears	002, 005, 009, 012, 018, 019, 035, 043, 048
Goldstar	009, 014, 046, 060	Sharp	006, 024, 027, 039, 045
Harman Kardon	014	Shintom	017, 026, 031, 055
Hitachi	005, 015, 035, 036	Sony	017, 026, 038
Instant Replay	008	Sylvania	008, 015, 029, 053, 056
JCL	008	Symphonic	015
JC Penney	002, 005, 007, 008, 014, 016, 030, 035, 051, 053	Tandy	002, 015
JVC	002, 014, 016, 030, 046	Tashiko	009
Kenwood	002, 014, 016, 030, 044, 046	Tatung	030
KLH	073	Teac	015, 030, 069
Lloyd	015	Technics	008
Logik	031	Teknika	008, 009, 015, 021
Magnavox	008, 029, 053, 056	Toshiba	005, 013, 019, 048, 049
Marantz	002, 008, 014, 016, 029, 030, 044, 046, 061	Totevision	007, 009
Marta	009	TMK	067
MEI	008	Unitech	007
Memorex	008, 009, 012, 015	Vector Research	014, 016, 044
MGA	004, 027	Victor	016
Midland	032	Video Concepts	014, 016, 044
Minolta	005, 035	Videosonic	007
Mitsubishi	004, 005, 027, 035, 040	Wards	005, 006, 007, 008, 009, 012, 013, 015, 025, 027, 031, 035
Montgomery Ward	006	Yamaha	002, 014, 016, 030, 046
MTC	007, 015	Zenith	011, 017, 026, 072

The Menu System

What's a Menu?

The digital receiver menu system is a list of choices, just like a menu in a restaurant. And, just as a restaurant menu is divided into sections such as appetizers, entrees, and desserts, the on-screen menus are also separated into sections to help you find the information you need.

Don't Forget Point and Select

As with all of the on-screen displays, you use Point and Select to navigate.

1 Setup and Connections



2 Using the Remote



3 The Menu System

The Menu System

The Main Menu

The Main menu is the gateway to all other menus in the digital receiver. To view the Main menu, press the LOOK button on the remote control, then SELECT•MENU. If you are already in another menu, first press CLEAR, then SELECT•MENU.



Press SELECT•MENU to see the Main menu.

When you point to and select an item on the Main menu, you go to another screen or to another menu. For example, if you point to and select Profiles, you will go to the Profiles menu.

Exiting a Menu Screen

There is an *Exit* button at the top left corner of most screens.

There are two ways to exit a menu:

- Point to *Exit* and press SELECT•MENU.
- Press the CLEAR button on the remote control. The on-screen display clears from the screen and you return to TV viewing.

The Menu System

Main Menu Items

Brief descriptions follow each of the Main menu items. Detailed information about each menu is included in this section of the manual.

Program Guide

Shows the Program Guide, a listing of all available programming.

PPV

Shows available pay-per-view programming and special events.

Locks

Allows you to set the Main Profile's password and spending limits.

Profiles

Allows you to set ratings and spending limits for individual profiles, and to create favorite channel lists.

Timers

Allows you to schedule your digital receiver to record a specific channel at a specific time on your VCR, or to automatically tune to a specific channel at a specific time.

Purchase List

Allows you to review upcoming purchases and to review past purchases.

Mailbox

Use to read mail messages from your program providers.

Set-up & Test

Allows you to set the preferred audio track and picture size, set-up your VCR, and run the system test.



Press SELECT•MENU to see the Main menu.

The Menu System

What is a Program Guide?

At first glance, the Program Guide looks much like the TV program guide you see in a newspaper — a grid showing what programs are on during each half-hour of the day, for each channel. But you also can use the Program Guide to get more information about a program and to tune digital receiver to a specific channel.

Using the Program Guide is easy — just point and select. Point to items on the screen by pressing the arrows on the remote control or front panel of the digital receiver. Then press SELECT•MENU to tune to that program.

Bringing Up the Program Guide

You can get to the Program Guide by pressing the GUIDE button on the remote control, or by selecting *Program Guide* or *PPV* from the Main menu.

Using the GUIDE button

Whether you are in another menu or watching TV, pressing the GUIDE button on the remote control takes you to the Program Guide. Each additional press of the GUIDE button takes you to a different format of the Program Guide.

- Press GUIDE once to see the half-screen Program Guide. This format displays a three-line guide and the current channel.



Press the GUIDE button once to see the three-line guide.

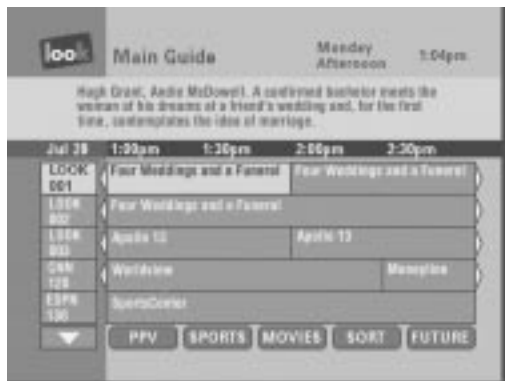
- Press GUIDE again to see the full-screen Program Guide.



Press the GUIDE button twice to see the seven-line guide.

The Menu System

- Press GUIDE a third time to see the Info Guide. When you point to a program in the Info Guide, you are presented with a description for that program.



Press the **GUIDE** button three times to see the five-line information guide.

Getting Around in the Guides

This section describes how to change channels and move around the program guide.

Point to Channels with the number keys (0-9)

You can point quickly to any channel in the program guide by entering the channel number with the number keys (0-9). For example, to point to channel 228, press the numbers 2-2-8 on the remote. To point to channel 530, press 5-3-0.

Scrolling Channel By Channel

The programs that you see on the TV screen make up one section—or page—of the total program guide. You can scroll to other sections using the arrows: point to other times with the left and right arrows; point to other channels with the up and down arrows.

Scrolling Page By Page

If you want to scroll up or down through the program guide faster, press the Channel Up/Down buttons on the remote control. The highlight scrolls a page at a time.

The Menu System

Tuning to a Channel from the Guide

To tune directly to a program listed in the Program Guide, point to the program and press SELECT•MENU.

If you select a program that is not currently on, a screen will appear that describes that program. You can select *Watch this Channel* or *Record this Program*. To return to the Program Guide from that screen, press the on-screen *Exit* button.

If you select a pay-per-view program, a second screen will allow you to buy the program, get more information on it, or return to the Program Guide. (For more information on purchasing a pay-per-view program, refer to page 30.)

Getting Information on a Program

To get more information about a program, use the INFO button on the remote control.

Getting Information from the Program Guide

Point to a program using the arrow keys on the remote control and press the INFO button. You will then see the Program Details menu, a full-screen program description with several possible menu options.



Press INFO in the guide to see more choices.

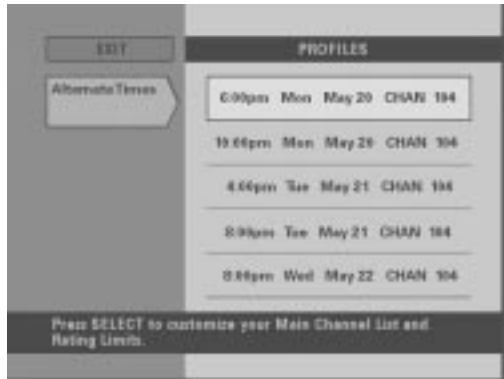
Then, you can select:

- *Watch this Program* to tune to the listed program.
- *Watch this Channel* to tune to the future program's channel.
- *Record this Program* to set up a timer to record the program.

The Program Details menu may also include the *Alternate Times* on-

The Menu System

screen button if this information is available. Select this button to see when the program may be broadcast again.



The guide may provide a schedule of alternate times.

Getting Information from TV Viewing

To obtain information on the program you are currently watching, press the INFO button on the remote control.

- Press the INFO button once to show the Information Banner, which includes the current time, the program's title, its start time, its end time, the channel you're on, and the program that will air next.
- Press INFO again to show the Description Banner, which includes a brief summary of the program you're watching.



Press the INFO button twice to see the Information Banner and Description Banner.

- Both the Information Banner and the Description Banner automatically leave the screen after a few seconds. To clear the screen quickly, press CLEAR.

The Menu System

Exiting the Program Guide

There are two ways to exit the Program Guide:

- Point to a channel and press SELECT•MENU.
- Press CLEAR on the remote control.

The Program Guide disappears, and you are returned to regular program viewing. If you have selected a pay-per-view program, a display screen allows you to purchase the selected program.

Customizing the Program Guide

There are five on-screen buttons at the bottom of the five and seven line Program Guide that let you to change what programs the Guide displays.

The *PPV*, *Sports*, *Movies*, *Sort*, and *Future* buttons are sorting buttons. These buttons allow you to personalize the Program Guide so that it shows only specific types of programming, such as movies or sports.



Sorting buttons appear at the bottom of the guide.

PPV

Point to and select the *PPV* on-screen button to display a Program Guide that lists only pay-per-view programs.

Sports

Point to and select the *Sports* on-screen button to display a Program Guide that lists only sports programs.

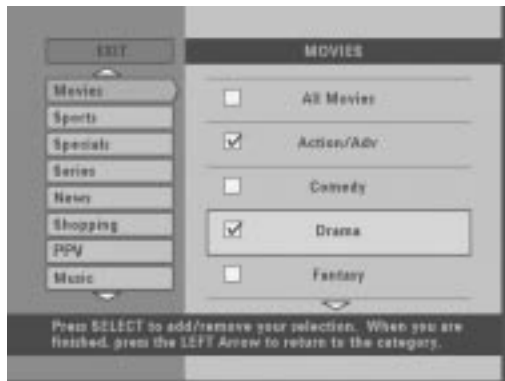
Movies

Point to and select the *Movies* on-screen button to display a Program Guide that lists only movies.

The Menu System

Sort

The *Sort* on-screen button allows you to further customize the Program Guide. Point to and select Sort to display the Sorting menu. This menu displays a list of topics on the left side of the screen, and a list of related themes on the right side of the screen.



Select Topics on the left; Themes on the right.

Use the up and down arrows on the remote control to go through the list of topics. Point to a topic and press the right arrow. Your on-screen highlight moves to the list of themes.

Use the up and down arrows to go through this list of themes. Point to a theme and press SELECT•MENU to select it with a check mark. Press SELECT•MENU again to deselect it (the check mark goes away). You can select as many themes as you want.

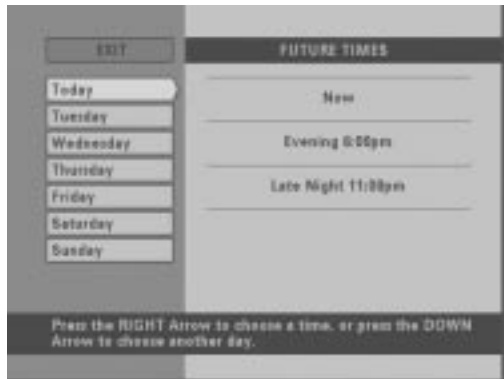
Use the left arrow to return to the *Topic* on-screen button, and press SELECT•MENU to display a Program Guide that lists programs that match your choice of topic and themes.

Using combinations of topics and themes, you can create personalized lists of programs. For example, you can create a Program Guide that only lists baseball and ice skating programs.

The Menu System

Future

The *Future* on-screen button is a short-cut to viewing future times in the Program Guide. Point to and select *Future* to display the Future Times menu.



The Future button can sort the guide by time of day.

The Future Times menu will sort the Program Guide by respective times, such as "Tomorrow Morning," or "Monday Night." Simply point to and select the *Future* on-screen button, point to the desired time period with the up and down arrows, and press SELECT•MENU to display the Program Guide listing programs in that time period.

Pay-Per-View Programs

Pay-per-view programs are featured in the PPV Program Guide and can be purchased — like a movie ticket — on a program-by-program basis. Once you purchase a program, tune to the program's channel at its start time to watch it.

PPV Previews

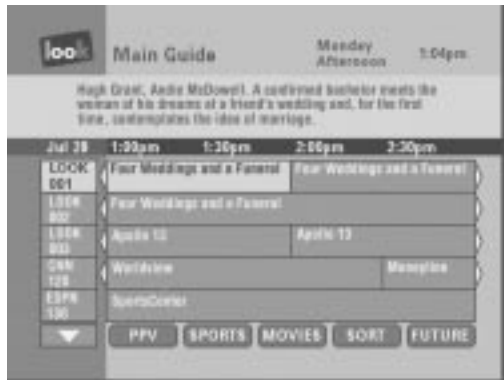
Press the PPV button on the remote once to view the pay-per-view promotional channel.



The PPV promotional channel features previews and information.

The Menu System

Press the PPV button again to view the PPV five-line Info Guide.



The PPV Program Guide lists programs and times.

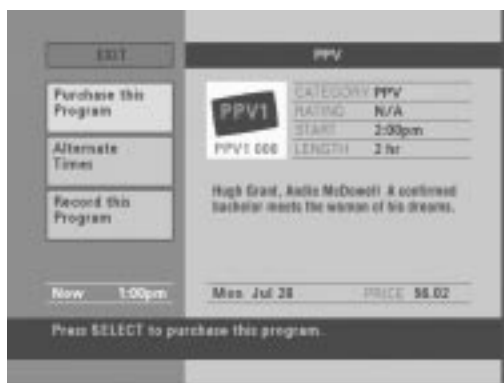
Purchasing and Viewing Pay-Per-View Programs

To purchase a pay-per-view movie or program, you can:

1. Find a pay-per-view program while scanning through the channel list with the CHAN arrows on the remote.
2. Select a pay-per-view program from the PPV Program Guide.

When you select a pay-per-view program, an on-screen message asks you to press SELECT on the remote control if you want to purchase the program. Press SELECT to purchase the program. If you do not wish to purchase it, enter a new channel number, or press GUIDE or CLEAR to clear this on-screen message.

When you press INFO, the Purchase Program menu is displayed.

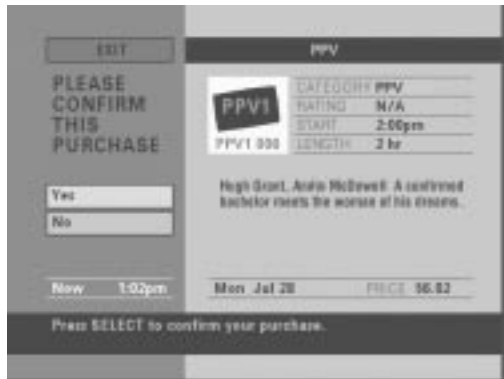


Press SELECT•MENU to purchase a program.

To purchase the program, point to and select *Purchase Program*. You are then asked to confirm your purchase.

If you choose to purchase a program that exceeds your spending limit, the system will ask you to enter the four-digit PIN that you set up in the Profiles menu.

The Menu System



You must confirm your purchase.

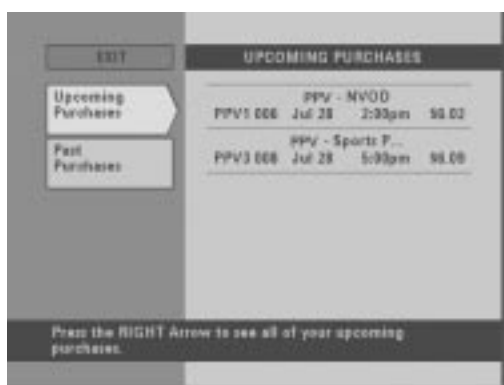
Select *Yes* to confirm the purchase of the program. Select *No* to cancel the order.

Before you purchase a program you can also select *Alternate Times* from the Purchase Program menu to find out if the program is available at other times.

Reviewing Past and Scheduled Purchases

The Purchases menu lets you review upcoming and past pay-per-view purchases. This lets you know how much you have spent or how much more you are scheduled to spend on pay-per-view programs.

To display the Purchases menu, select the *Purchase List* on-screen button from the Main menu.



Select *Purchases* from the Main menu to review upcoming and past purchases.

If you want to review upcoming purchases, point to and select an entry to display the program description.

Canceling a Purchase

If you order a pay-per-view program by mistake or choose to cancel an upcoming purchase for any other reason, you may do so by contacting your Customer Service Center.

The Menu System

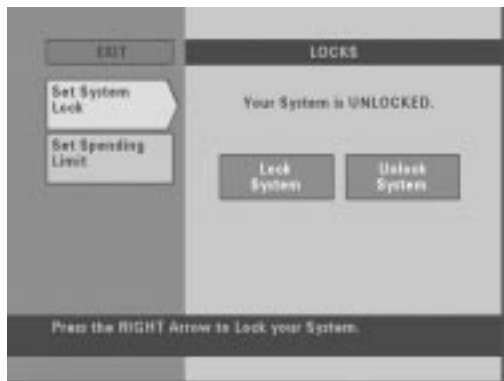
Locking and Unlocking the System

The locking feature lets you manage your family's access to certain programs. The User Profile settings for channel lists, rating limits, and the spending limit go into effect when you lock the system.

Changing any ratings, channel lists, or the per-program spending limit is impossible without knowing the Main Profile PIN (Personal Identification Number). A PIN is a password for a Profile that locks and unlocks the digital receiver system.

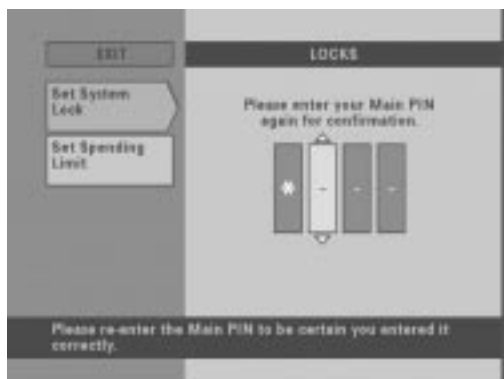
To lock or unlock the system:

- 1) In the Main menu, point to and select *Locks*.
- 2) *Set System Lock* is highlighted. Press the right arrow button to highlight *Lock System* or *Unlock System*, then select it.



Locking the system locks the profile limits.

- 3) Use the arrows or digit keys to enter a four-digit system password.



Be sure to remember your password.

- 4) When you create a password the first time you must enter it a second time to confirm it.

When the system is unlocked, the spending, rating, and channel limits you have set are no longer in effect.

The Menu System

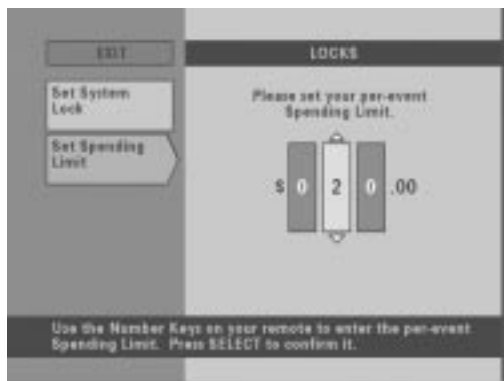
Important Note: Overriding Profile Limits

When you attempt to view a program that is blocked by one or more limits, a screen will appear that asks you to enter the four-digit Main Profile PIN. Enter the Main Profile PIN to override the system lock. Once you enter the Main Profile PIN, all limits will remain unlocked until you turn off the digital receiver. When you turn the receiver on again, it will be locked and the Main Profile will be in effect.

Setting the Spending Limit

The Locks menu also determines how much you can spend on pay-per-view programs by setting a per-program spending limit. This spending limit is the same for all User Profiles.

- 1) From the Main menu, point to *Locks* and press SELECT•MENU.
- 2) Point to and select *Set Spending Limit*.
- 3) Use the arrows or digit keys to enter the spending limit.



- 4) Press SELECT•MENU to confirm the spending amount.

If You Forget Your Main Profile PIN...

If you forget your Main Profile PIN, don't worry! Just contact your Customer Service Center.

The Menu System

Profiles

Not everybody likes to watch the same things. Within your own family you might not want everybody to be able to watch the same things.

The Profiles menu allows up to four individual members of your household to control their own viewing choices by setting up a customized channel list that can be protected with a PIN (Personal Identification Number).

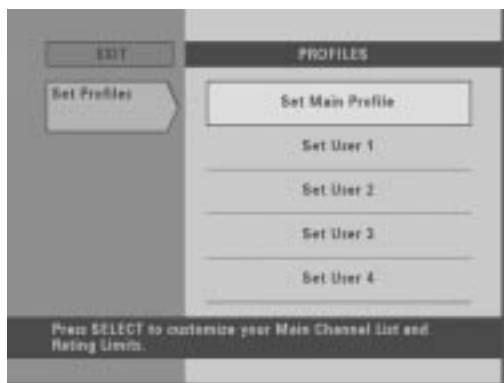
Especially for Parents

The Profiles feature also contains a Main Profile that is automatically activated each time the digital receiver is turned on. Setting up the Main Profile lets you as a parent decide which channels and the type of shows that can be viewed by your children.

Remember, the Main Profile PIN lets you lock the Profiles menu so that no one can change any of the rating limits, spending limits, or channel lists without knowing this four-digit PIN. The Main Profile PIN ensures that only the programming of your choice can be viewed through the digital receiver.

Getting to the Profiles Menu

The Profile menu lets you set up a Main Profile and four individual User Profiles. To get to the Profiles menu, point to *Profiles* in the Main menu and press SELECT•MENU.



Profiles let you decide which channels can be viewed.

The Menu System

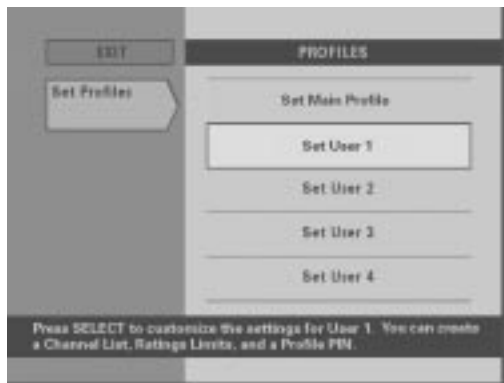
Creating and Editing a Profile

The five Profiles are designed to give you easy access to customized Program Guides. You can edit these profiles to show only certain channels or programming within certain rating limits.

The Main Profile is selected by default when you turn on your digital receiver.

To create or edit a Profile:

1. From the Main menu, point to and select *Profiles*.
2. Point to *Set Profiles*, and press SELECT•MENU. The highlight moves to the right area of the screen.

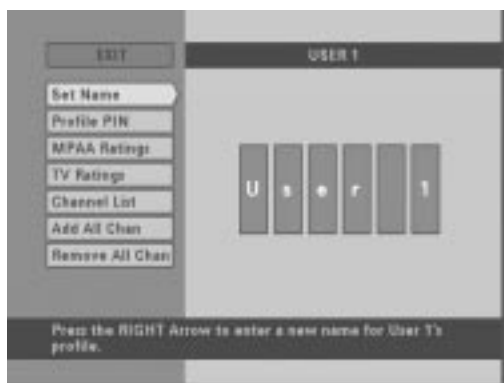


Point to a Profile to edit rating limits and channel lists.

2. Point to an individual user or the Main Profile, and press SELECT•MENU.

Setting the User Name

Point to and select *Edit Name* to enter or change the user's name. The highlight moves to the first letter of the user's name.



You can personalize each profile.

The Menu System

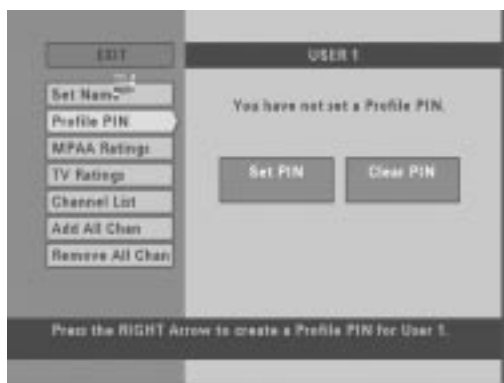
Use the up and down arrows to go through the alphabet. When the correct letter is displayed, press the right arrow on the remote control. Each name can be up to six characters. Press SELECT•MENU to confirm the name.

Setting the User PIN

A PIN locks a User Profile. When a PIN is assigned, the user must enter it before he or she can view programs using that Profile.

You do not need to set a User PIN if you do not want to lock a User Profile.

Point to and select *Profile PIN* to password-protect the User Profile. Once this is done, the user will have to enter his or her PIN to view the Profile.



You can password protect each profile.

There are two ways to enter a PIN:

1. Use the number keys on the remote control to enter the four-digit PIN.
2. Use the up and down arrows to go through numbers (0-9). Press the right arrow on the remote control to move to the next digit.

After you set your PIN, you will need to re-enter it to verify that it is correct.

Setting the Rating Limits

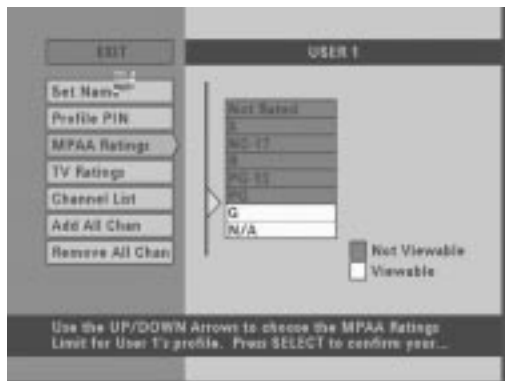
The rating limit is another way in which the digital receiver allows you to determine what kinds of programs you want available to your family. This feature lets you set the maximum viewing limits for rated programs.

The Menu System

MPAA Ratings

MPAA Ratings limit lets you set the maximum viewing limits for rated movies only. This includes movies on premium channels and pay-per-view movies, but excludes movies on regular television broadcasts.

1. Point to *MPAA Ratings Limit* and press SELECT•MENU. The highlight moves to the rating list on the right side of the screen.



The MPAA ratings feature blocks movies rated above the set limit.

2. Set the rating limit using the up and down arrows to move the rating selector to the highest rating you want the user to view. Press SELECT•MENU to confirm.

TV Ratings

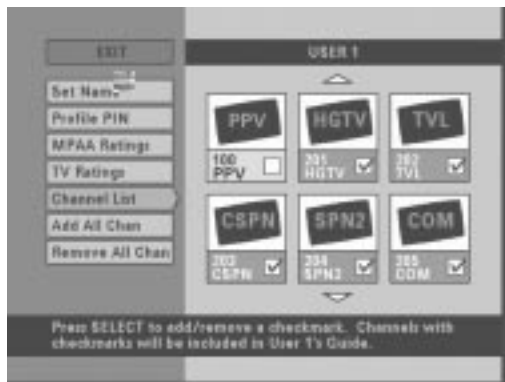
TV Ratings limit lets you set the maximum viewing limits for rated television broadcasts only.

The Menu System

Editing the Channel List

Once you have set a user name, you have the option of creating a customized list of channels for that user. Editing your own channel list is a way to give you fast access to your favorite channels.

Point to *Channel List* and press SELECT•MENU.



You can use the Profiles to make favorite channel lists.

The first time you see this menu, all of the channels are selected (check marked). To create a customized channel list, scroll through the list and deselect those channels that you do not want to appear in the Program Guide.

To add or delete channels in your channel list:

1. Use the arrow keys to point to a channel, and press SELECT•MENU to remove (or replace) the checkmark.
2. Use the left arrow to return to the *Channel List* button. Point to another item or press CLEAR to exit the screen.

The *Add All Chan* choice adds all available channels to your list (all channels will be check marked). The *Remove All Chan* choice deletes all channels from your list.

Choosing Your Profile

Each time you turn on the digital receiver, the Main Profile is selected by default.

1. To find another Profile, press the PROFILE button on the remote control. Each press on the PROFILE button brings up, in turn, one of the five Profiles: the Main Profile and the four User Profiles.
2. When your Profile appears, enter your four-digit User PIN to activate it.

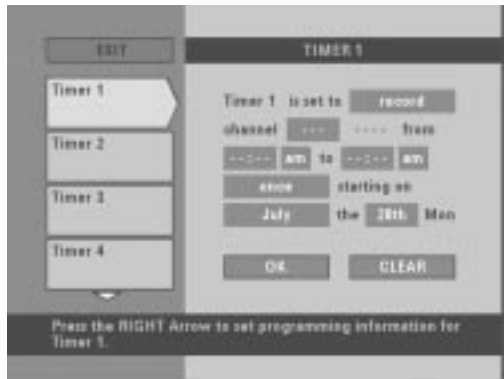
Once you enter a PIN, the rating limit, channel list, and spending limits will be those that have been set for the selected Profile.

If the Profile is not password protected, you can simply press SELECT•MENU to activate it.

The Menu System

Timers

The Timers menu lets you preset your digital receiver to automatically tune to a particular channel at a predetermined time. If you have a VCR controller connected to the digital receiver and your VCR, you may also record a program at a predetermined time. Select Timers from the Main menu to bring up the Timers menu.



Set Timers to record a program.

Setting a Timer

Select a Timer (1-8) and use the arrow buttons to complete the on-screen sentence. If you set the Timer to *Record*, your VCR will record the program when it airs. (The VCR Controller must be affixed to the VCR remote sensor and connected to the Remote Out jack on the back of the receiver.) If you set the Timer to *Watch*, the receiver will automatically tune to the program when it airs. You can switch between *Record* and *Watch* by pressing SELECT•MENU.

You can cancel or edit a Timer from the Timer menu. Select the Timer you want to edit or cancel. Use the arrow keys to edit the Timer and select *OK*, or select *Clear* to cancel the Timer.

One-Step Recording

Select a program in the Program Guide and press the REC button on the remote control. The program information (channel, day and time) is stored in the first available Timer.

Before You Record

1. Make sure there is a tape in your VCR.
2. Make sure the VCR controller is connected and the digital receiver knows your VCR model. This is done in the Set-up & Test menu. See page 10-13.

The Menu System

The Mail box

The mailbox shows you messages that are sent—or “mailed”—from your program provider. For example, you may receive a message calling your attention to a new service.

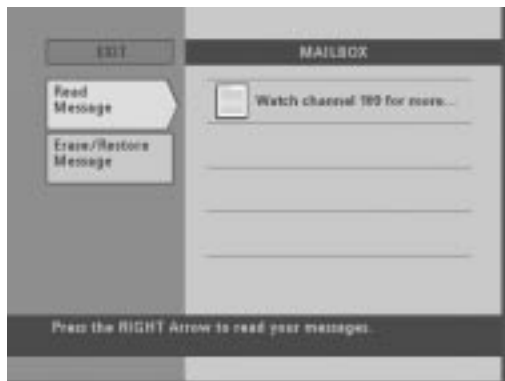
How to tell when you have mail

The power light on the front panel of the receiver flashes.

Checking your mail

Select *Mailbox* in the Main menu.

1. Point to a message and press SELECT•MENU. The message is opened for you to read.



Mail provides the latest information from program providers.

2. Press SELECT•MENU again to close the letter.

After you read a message and want to erase it, point to *Erase Message* and press SELECT•MENU. When you exit the display screen, messages not erased are saved in memory.

If the system is locked, you must enter the Main Profile PIN to access mail messages.

The Menu System

The Set-Up & Test Menu

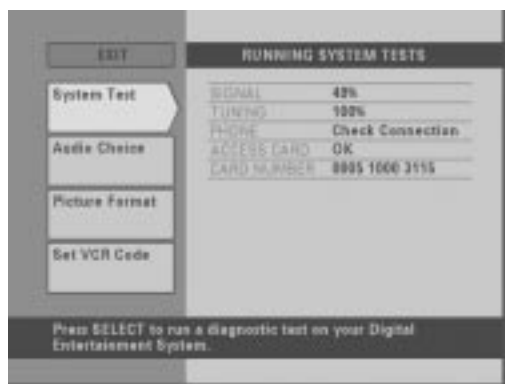
The Set-up & Test menu is designed to ensure that you get the optimal performance from your digital receiver. It lets you adjust the receiver to your TV and VCR, choose an alternate audio track and run a diagnostic test.

System Test

The System Test offers four separate tests: signal, tuning, phone connection, and access card.

To test the system:

1. Point to *Set-up & Test* in the Main menu and press SELECT•MENU.
2. Point to *System Test* and press SELECT•MENU.



The System Test helps diagnose any problems.

A screen appears, telling you whether the system passed each test. If the system fails a test, run the system test several times before concluding that there is a problem. Occasional disruptions in the phone line or broadcast signal can give temporary false test results.

Audio Choice

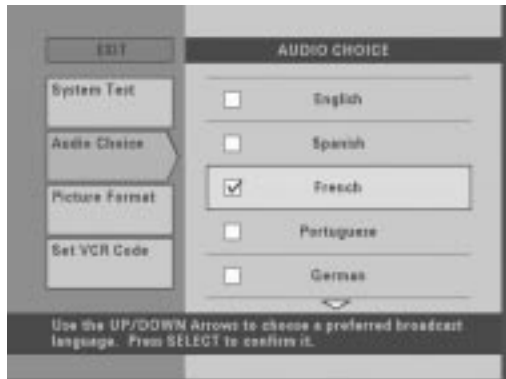
Some television programs are broadcast with alternate language options.

The *Audio Choice* on-screen button in the Set-up & Test menu allows you to select different audio tracks (when available) to listen to with broadcast programs.

To select an alternate audio track:

1. Point to *Audio Choice* and press SELECT•MENU.
2. Point to the preferred language and press SELECT•MENU.

The Menu System



A check mark next to the language choice means you have selected it as your preferred option. The digital receiver will then set the audio program to reflect this choice. For example, if you select French, the digital receiver will then automatically set the audio track to French whenever French audio is available.

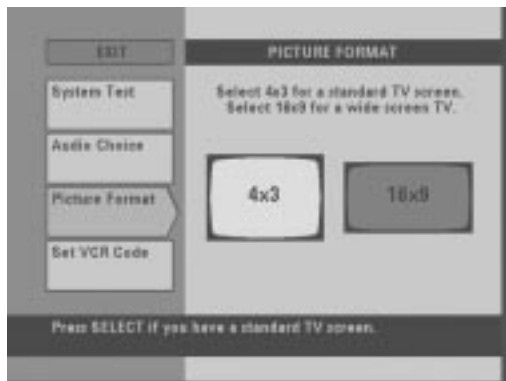
Picture Format

Some television sets and home theater systems have screens that are slightly wider than standard televisions. (This wider screen is sometimes called a cinema screen). A normal TV has an aspect ratio of 4x3, while a cinema screen has an aspect ratio of 16x9.

The Picture Size menu lets you to choose between a standard screen (4x3 ratio) and the wider cinema screen (16x9 ratio). You should only use the 16x9 option if you have a cinema screen TV. Using this option with a standard screen TV may crop or distort the picture.

To choose a picture size:

1. Point to *Picture Format* in the Set-up & Test menu and press SELECT•MENU.



2. Point to the type of TV screen you have and press SELECT•MENU.

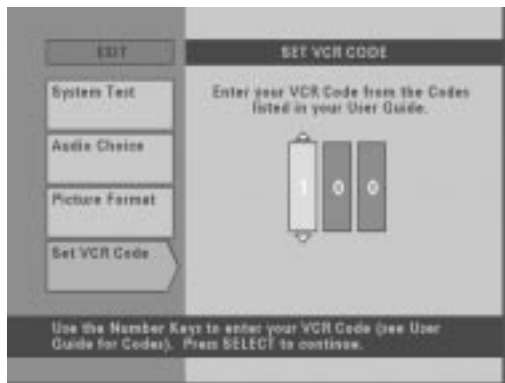
When 16x9 is selected, 16x9 video will be displayed if it is available. If not, 4x3 video will still be shown.

The Menu System

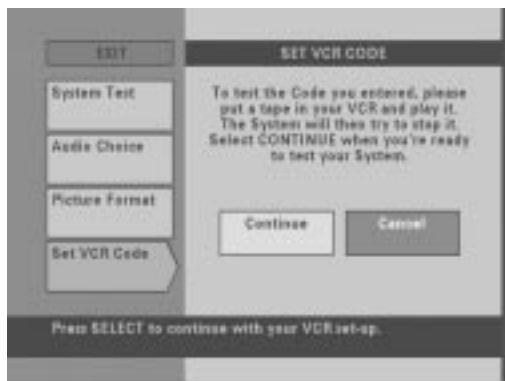
Setting the VCR Code

In order to let the digital receiver control your VCR, you need to connect the VCR Controller. (For instructions on how to make the connection, see page 10.) You will then need to tell the digital receiver which VCR brand you are using. This is done by selecting *Set VCR Code* from the Set-up & Test menu.

1. Use the arrows or digit keys to input the correct code for your VCR brand. The VCR Codes are located on page 13.



2. Follow the on-screen instructions to ensure that you are using the correct code. If the VCR automatically stops tape play, then you know that the Receiver and the VCR are communicating.



Some older VCR brands may not be capable of being controlled by the digital receiver.

Index

A

antenna (digital) 4
ARROW buttons 16
AUDIO 2 button 16
Audio choice 42

B

Back panel 6
Batteries 4
Buttons
 remote 16

C

CHAN UP/DOWN buttons 16
Channel limits 33
Channel lists 39
CLEAR button 16
Codes
 remote 18, 19
 VCR controller 13
Connections 4
 advanced 8
 audio/video quality 5
 basic 7
 jacks and cables 5, 6
 VCR controller 10, 12, 44

D

DIGIT KEYS 16
Digital antenna 4
Digital receiver
 back panel 6
 connecting 4, 7, 8, 10, 12

E

Exiting
 menus 22
 program guides 28

F

Future sorting button 30

G

GUIDE button 16, 24
Guides. *See* Program guides

I

INFO button 16
INPUT button 16
Input channel 22
Input channel 11

L

Language preference 42
LAST CH button 16
Locking
 the system 23, 33
LOOK button 16

M

Mailbox 23, 41
Main menu 22
Menu system 21
 exiting 22
 navigation 17, 21
Menus
 Locks 23, 33
 Mailbox 23, 41
 PPV 23
 Profiles 23, 36
 Program Guide 23
 Purchase List 23
 Set-up & Test 23, 42
 Timers 23, 40

Messages

 deleting 41
 reading 41

Movies sorting button 28
MPAA ratings 38
MUTE button 16

P

Passwords 33
Pay-per-view 30
 review 32
Picture format 43
PIN 33, 34
Point and select 17, 21
POWER button 16
PPV button 16, 28
PROFILE button 16
Profiles 35
 channel lists 39
 choosing 39
 editing 36
 menu 23
 overriding limits 34
 ratings limits 37, 38
Program guides 23, 24
 exiting 28
 sorting 28
Program information 26, 27
Programming the remote 17
 to control your TV 18
 to control your VCR 19

Purchase list 23
 past 32

R

Ratings limit 33, 37, 38
RECORD button 16
Recording 10, 12
 with Timers 40
Remote control 4
 batteries 4
 buttons 16
 codes 18, 19
 programming 17, 18, 19
 using 15

S

SELECT•MENU button 16
Set-Up & Test 23, 42
Setting the VCR type 12, 44
Sort buttons
 Future 30
 Movies 28
 PPV 28
 Sort 29
 Sports 28
Spending limit 33
Sports sorting button 28
System
 lock 33
 menus 21

T

Timer/Record feature 23, 40
Tuning to a channel 26
TV button 16
TV codes 18
TV ratings 38

U

User name 36
User PIN 37

V

VCR
 codes 13, 19
 connecting 6, 10
 controller 6, 10
 setting the 12, 44
VCR button 16
Video input channel 11
VOL UP/DOWN button 16

INDUSTRY CANADA REGULATIONS

NOTICE:

The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements. Industry Canada does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

CAUTION:

Users should not attempt to make such connection themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

NOTICE:

The Ringer Equivalence Number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5.

RADIO INTERFERENCE:

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

PRODUCT SERVICE:

If trouble is experienced with this equipment, please consult the instruction manual for product service.

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