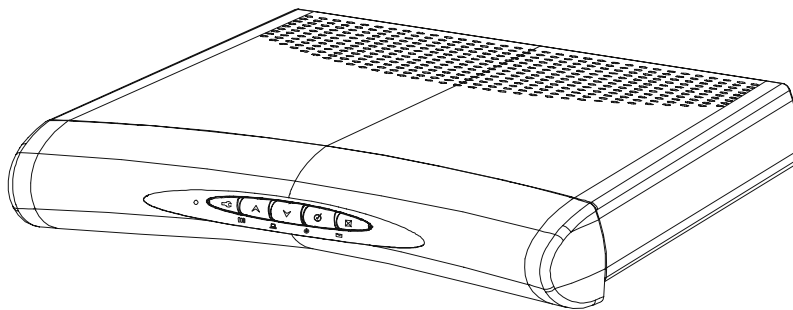


Next Level Residential Gateway User's Guide (RG2C)



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IMPORTANT SAFEGUARDS

READ INSTRUCTIONS – All the safety and operating instructions should be read before the product is operated.

RETAIN INSTRUCTIONS – The safety and operating instructions should be retained for future reference.

HEED WARNINGS – All warnings on the product and in the operating instructions should be adhered to.

CLEANING – Do not use liquid or aerosol cleaners to dust this product. Use a cloth lightly dampened with water for cleaning.

ATTACHMENTS – Do not use attachments that are not recommended as they may cause a hazard.

WATER AND MOISTURE – Do not use this product near water; for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

ACCESSORIES – Do not place this product on an unstable cart, stand, tripod, or table. The product may fall causing damage to the product.

VENTILATION – Slots and openings in the product housing are provided for ventilation, to ensure reliable operation of the product, and to protect it from overheating the following should be observed:

- Openings should never be blocked by placing the product on a bed, sofa, rug, or similar surface.
- Do not stack other equipment on top of the RG2C.
- Maintain at least 2 inches of free space above the RG2C.
- Equipment should never be placed near or over a radiator or heat register, or in a built-in installation such as a bookcase or rack unless proper ventilation is provided.

POWER SOURCES – This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your local power company. For equipment intended to operate from battery power or other sources, refer to the operating instructions.

GROUND OR POLARIZATION – This product may be equipped with a polarized alternating current line plug (a plug having one blade larger than the other). This plug will fit into the power outlet in only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit into the outlet, contact an electrician to replace your obsolete outlet.

POWER CORD PROTECTION – Power cords should be routed so they are not likely to be walked on or pinched by items placed upon or against them, paying particular atten-

tion to cords at plugs, convenience receptacles, and the point where the plugs exit from the product.

POWER SOCKET OUTLET – Use a power socket outlet located near the equipment that is easily accessible.

LIGHTNING – For added protection for this product during a lightning storm, or when it is left unattended, unplug it from the wall outlet. This will prevent damage to the video product due to lightning and power line surges.

OVERLOADING – Do not overload wall outlets and extension cords, as this can result in a risk of fire or electrical shock.

OBJECT AND LIQUID ENTRY – Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electrical shock. Never spill liquid of any kind on the product.

SERVICING – Do not attempt to service this equipment yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

DAMAGE REQUIRING SERVICE – Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power supply cord or plug is damaged
- If liquid has been spilled or objects have fallen into the equipment

- If the product does not operate normally by following the operating instructions
- If the product has been dropped or the housing has been damaged
- When the product exhibits a distinct change in performance

SAFETY CHECK – Upon completion of any service or repairs to the product, ask the service technician to perform safety checks to determine that the product is operating properly.

SAFETY

This section reviews important safety concepts for working with the optical and electrical equipment covered in this guide.

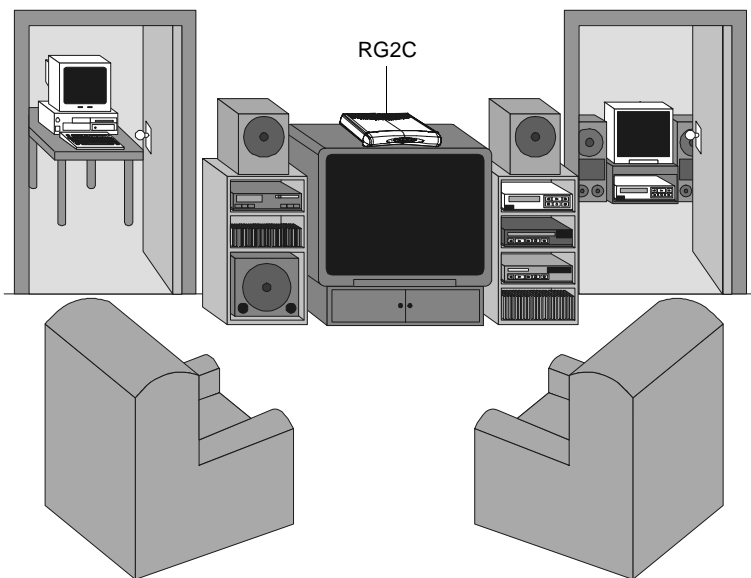
SAFETY ADVISORIES AND LABELS

Important warning notices, if any, are located on the back of the RG2C about safety to people and equipment. Failure to observe these rules and similar danger, caution, or warning notices can result in serious personal injury, service interruption, and equipment damage.

REPAIRS

If you find the unit in need of repair, contact your network service provider for repair or replacement. **WARNING! Disconnect unit before servicing.**

INTRODUCTION



Beneath the compact and stylish exterior of the RG2C is a powerful media delivery system. The RG2C is different from other video boxes that you may have encountered. Some competitor boxes are designed to deliver one video/audio channel to a

single TV and/or VCR device. In contrast, the compact RG2C delivers the functionality of three high-quality digital video boxes in a single package. The RG2C can deliver separate xDSL video services to up to three TVs at the same time. It also provides a high-speed xDSL modem for Internet access and telephony capabilities, such as Caller ID and Message Waiting display.

ABOUT THIS MANUAL

GETTING STARTED on page 15 contains the information you use most frequently and helps you understand how the RG2C works after your NSP (network service provider) has connected and programmed its functions. It also describes how to use the RG2C remote control to access and control the basic features of the RG2C.

ADVANCED USE on page 33 provides more technical information about the RG2C and gives instructions about how to set up and program your system.

CONFIGURATION EXAMPLES on page 63 illustrates possible component wiring configurations of the RG in your system to aid you if you want to move your equipment or connect additional equipment such as an entertainment center or a new VCR.

CONNECTING YOUR COMPUTER TO THE INTERNET on page 57 briefly explains connecting your computer to the Internet. Illustrations show configurations for setting up a LAN (local area network) in your home.

TROUBLESHOOTING on page 75 provides help for problem resolution.

WHAT YOUR NETWORK SERVICE PROVIDER DOES

The NSP (network service provider) is the company that installs your telephone and data services, as well as possibly providing Internet service. Some telephone companies, however, use an ISP (Internet service provider) company to offer Internet service to their customers.

During the initial installation your NSP does the following:

- Installs the RG2C and connects it to your home entertainment system.
- Sets all features and services to which you have subscribed including:
 - Wiring additional rooms with coaxial cable for secondary TVs.
 - Connecting secondary TVs (TV2 and TV3) to the network and to any splitters and RAP(s) (remote antenna package) that are required.
- Connects and configures your computer(s) to access the Internet.
- Ensures that all the remote controls in your home used with your RG2C are the correct model.
- Installs the batteries in your remote control.
- Programs your remote control(s) to operate a specific TV.
- Provides labels for your remote controls to let you label one remote for each TV.
- Writes the remote control IDs in the space provided (see page 13).

ABOUT VHF CHANNELS

Your NSP sets your TV to operate on a specific VHF (very high frequency) channel. This setting allows you to receive video and audio broadcast services.

Programming the TV to a VHF channel is similar to setting a TV to a specific channel, such as channel 3, in order to view movies played on your VCR. After the RF channel has been set, it is recommended that you do not change it, as you will no longer be able to receive programming unless you retune your TV to a new VHF channel.

Once your TV is tuned to the specified VHF channel, the RG2C and your remote allow you to surf through the channel line-up and tune to any program from any TV viewing location. The table below demonstrates how the TV outputs and the VHF channels work together to deliver video and audio programming.

TV	OUTPUT Ports	VHF Channel ¹
TV1	NETWORK IN/TV OUT and/or TV OUT	3, 4, 5, or 6
TV2		7, 8, 9 or 10
TV3 (VDSL only)		11, 12 or 13

1. The VHF channels are a list only. Actual VHF channels used will vary according to location and will be determined by your NSP.

WRITE YOUR REMOTE CONTROL AND OTHER IDs HERE

You may wish to label each of your remote controls. You will then be able to easily identify which TV is controlled by each remote. Ask your service provider for labels if they have not already been provided.

Write your remote control ID here:

TV1 _____ TV2 _____ TV3 _____

Write your TV code here:

TV1 _____ TV2 _____ TV3 _____

Write your Gateway ID here:

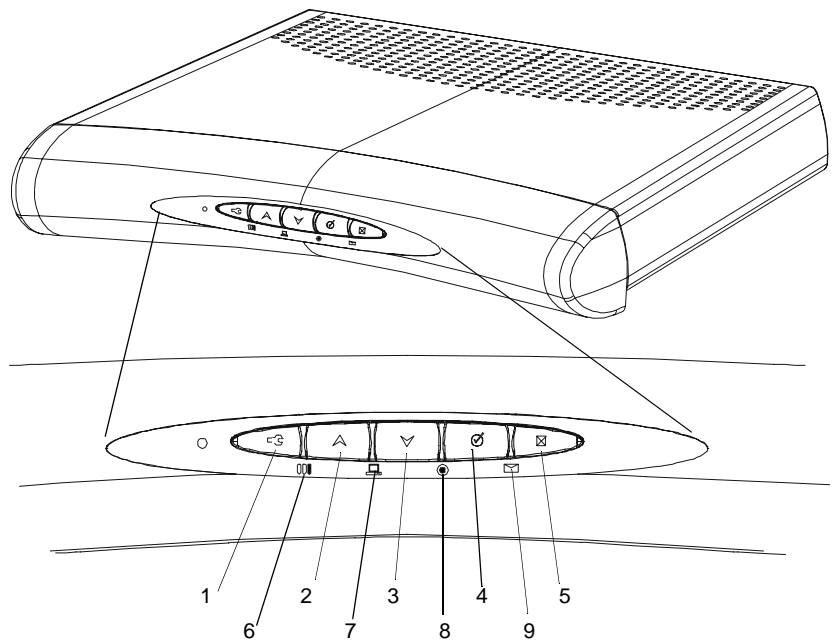
GETTING STARTED

This section contains basic information needed to get you started using your new NLevel³ Residential Gateway™ RG2C. This basic information is covered in the following subsections:






- “Using Your RG2C” on page 16
- “Using Your Remote Control” on page 19
- “Changing Channels” on page 21
- “Controlling TV Volume” on page 21
- “Setting Up Channel Order and Your Favorite Channel List” on page 22
- “Caller ID/Message Waiting” on page 24
- “Using Pay-Per-View” on page 27
- “Access Parental Control” on page 27
- “Recording Your Favorite Programs” on page 29
- “Cancelling Your Recording” on page 30
- “Programming Your VCR Code” on page 31
- “Replacing Remote Control Batteries” on page 32

USING YOUR RG2C





The illustration below shows the controls you need to be familiar with when using the RG2C. Go to the tables on the next page for a description of their function.



The following table describes the buttons on the front of the RG2C. These buttons operate at the primary viewing location, which is TV1.

Symbol	Name	If you press the button, this happens.
	1. SETUP	Displays the Gateway Menu.
	2. UP arrow	Increases the channel number. When you are using the on-screen program guide or menu, moves the cursor up.
	3. DOWN arrow	Decreases the channel number. When you are using the on-screen program guide or menu, moves the cursor down.
	4. SELECT	While in the program guide or menu, selects the highlighted choice.
	5. EXIT	Exits the current menu. Reboots (restarts) the RG2C if pressed and held for 5 seconds or more.

LED symbols and descriptions.

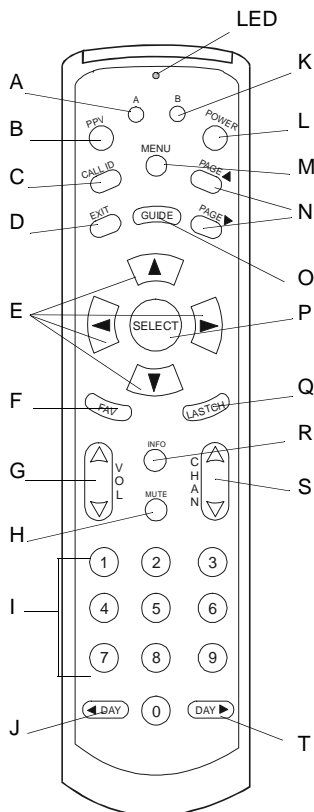
LED Symbol	RG2C LEDs	What the lights mean
	6. STATUS	If the LED is off, there is no power to the RG2C.
		A blinking red LED indicates the RG2C is attempting to communicate with the network.
		A blinking amber LED indicates the RG2C is communicating with the network.
		A blinking green LED indicates the RG2C is not yet ready to use.
		A solid green LED indicates the RG2C is communicating with the network and is ready to use.
	7. ONLINE	No light, or off, indicates there is no active computer detected on the data port.
		An amber light indicates the RG2C has detected an active computer on the data port, but the RG2C is not yet ready for use.
		A solid green LED indicates the RG2C has detected an active Ethernet computer or hub on the Ethernet and is ready for use.
	8. RECORD	A red LED indicates a program is being recorded.
	9. MESSAGE	A green LED indicates one or more voice mail messages are present.

USING YOUR REMOTE CONTROL

The remote control allows you to control TV viewing from anywhere in your home. Your NSP (or yourself) can program it to operate your TV as well as your RG2C. The remote control operates by sending either IR (infrared) or UHF (ultra-high frequency) signals to the RG2C. Your Network Service Provider programs your remote to operate in the most appropriate mode for your home.

If your remote control is programmed for IR mode, it requires a direct line-of-sight to function. In other words, you need to point an IR remote directly to the television or the RG2C. You can only use an IR remote to operate a TV that is located in the same room as the RG2C. If your primary TV (TV1) located in a different room than the RG2C, the remote must be programmed to use UHF mode.

Remote controls that control secondary TVs (TV2, TV3), are also programmed to operate in UHF mode.



REMOTE CONTROL BUTTONS

- A. When pressed, starts Remote ID programming sequence.
- B. Displays Pay Per View menu.
- C. Opens Caller ID screen.
- D. Exits current menu and returns you to previous screen.
- E. Arrows move cursor in Program Guide & menu screen.
- F. Scans through favorite channels.
- G. Adjusts TV volume.
- H. Mutes TV sound. When pressed and held, initiates TV Remote setup.
- I. Selects channels (0-9).
- J. Move program guide back 24 hours.
- K. When pressed, starts Gateway ID programming sequence.
- L. Powers TV on/off and tunes to default channel.
- M. Displays Main Menu.
- N. Pages up and down in interactive program guide and menu screens.
- O. Displays interactive program guide.
- P. Selects highlighted option.
- Q. Recalls last channel.
- R. Displays current channel and program information.
- S. Changes program channel.
- T. Moves program guide forward 24 hours.

ACTIVATING THE RG2C

The RG2C doesn't have an on/off button. However, if your NSP has activated the "One Touch Power" option, the RG2C can be put into a power saving mode when you use the POWER button on the remote to turn the TV off. It is reactivated when the TV is turned on using the same button.

CHANGING CHANNELS

To change the channel using the remote control buttons do one of the following:

- Press the up or down arrow on the CHAN button.
- Enter the channel number on the number key pad and press SELECT.
- Enter the channel number on the number key pad; the RG2C will go to the channel entered within 5 seconds.

To change the channel using the RG2C buttons:

- Press the up or down arrows on the front panel.

CONTROLLING TV VOLUME

To raise or lower the volume on your TV using your remote control:

- Press the up or down arrow on the VOL button.

To MUTE OR UNMUTE THE TV VOLUME USING YOUR REMOTE CONTROL:

1. Press the MUTE button on the remote to mute your TV.
2. Press it again to unmute the TV.

SETTING UP CHANNEL ORDER AND YOUR FAVORITE CHANNEL LIST

You can use the remote control to select what channels will appear in your guide, set up your TV channel order or create a list of your favorite channels. Once your favorite channel list is set up, it can be accessed by pressing the FAV button on your remote control.

To SELECT CHANNEL LIST:

1. Press the MENU button on your remote control

The Main Menu screen of your interactive program guide is displayed.

2. Use the down arrow to highlight "Setup The Channels."
3. Press SELECT.

An options screen is displayed.

4. Use the down arrow to highlight "Select Channels."
5. Press SELECT.

6. Follow the instructions on the screen using your remote control buttons.
7. When you have completed your selection, press EXIT to return to the previous screen.

TO ARRANGE THE CHANNEL ORDER:

1. Press MENU.

The Main Menu screen of your interactive program guide is displayed.

2. Use the up or down arrow to highlight "Setup The Channels."
3. Press SELECT.

An options screen is displayed.

4. Use the down arrow to highlight "Change Channel Order."
5. Press SELECT.
6. Follow the instructions in the interactive program guide.
7. When you have completed your selection, press EXIT to return to the previous screen.

TO CREATE A FAVORITE CHANNEL LIST:

1. Press MENU.

The Main Menu screen of your interactive program guide is displayed.

2. Use the down arrow to highlight "Setup The Channels."
3. Press SELECT.

An options screen is displayed.

4. Use the down arrow to highlight "Favorite Channels."
5. Press SELECT.
6. Follow the instructions in the interactive program guide to select your favorite channels.
7. When you have completed your selection, press EXIT to return to the previous screen.

User Tip: Selecting channels to be included in the Favorite Channel List can also be performed in Pay-Per-View and in the program guide menu.

Now, whenever you access the program guide or press the FAV button on your remote control, the channels will be listed in the order you selected.

CALLER ID/MESSAGE WAITING

If you have subscribed to Caller ID, Voice Mail or Call Waiting services with your NSP, these capabilities are enabled as soon as the RG2C is connected to the network.

When an incoming call arrives, the message LED on the front of the RG2C is illuminated and caller ID information appears in the upper left-hand corner of each of the caller-ID enabled TVs.



The information may include some or all of the following, depending on the services available in your area.

- The caller's name
- The caller's number
- The date of the call
- The time of call

You may also receive messages indicating the following conditions exist.

- The caller is out of the area
- The caller ID information is unavailable

Some of the caller information received is marked as private.

All caller ID information is added to the Call Log. The RG2C maintains a log of the last 50 calls. The log includes:

- The caller's name
- The caller's phone number
- The date
- The time of the call

Information that is unavailable appears in the Call Log as unavailable or private.

To VIEW THE CALL LOG, DO THE FOLLOWING:

1. Press CALL ID on your remote control.

The Caller ID Log is displayed. New calls appear with:

- An asterisk (*)
- Highlighted text

2. Use the up or down arrow buttons to scroll through the list of calls in the Call Log.
3. Or, use the PAGE UP or PAGE DOWN buttons to scroll through pages of calls.
4. Press EXIT when you have finished.

User Tip: Make changes to your Caller ID and Voice Mail setups by pressing the MENU button and selecting "Telephone Services".

USING PAY-PER-VIEW

The RG2C allows you to purchase and cancel Pay-Per-View programs, create passwords that control the ability to purchase programs.

ORDER OR CANCEL PAY PER VIEW PROGRAMS USING YOUR REMOTE CONTROL

1. Press PPV on your remote control.

The interactive pay-per-view program guide is displayed.

2. Use your remote control and follow the instructions in the interactive program guide.

ACCESS PARENTAL CONTROL

The RG2C allows parental discretion about TV programs for your children. This is accomplished via the "parental lock" and can be easily set up and removed using your remote control. You can control access to programs of your choice in several ways:

- Lock by channel

- Lock by rating and content
- Lock by time

The RG2C also allows you the option to create passwords that control the ability to purchase programs and access parental locks.

1. Press MENU on your remote control.

The Main Menu screen is displayed.

2. Use the down arrow on your remote to highlight "Parental Control."
3. Press SELECT.

An options menu is displayed. The options include:

- Parental Control Locks
 - Setup Passwords
4. Highlight the action you want to perform.
 5. Press SELECT.
 6. Follow the instructions on your interactive program guide.

Important! If you have forgotten your password and are unable to access pay-per-view or the parental controls, contact your NSP and have them reset your password.

RECORDING YOUR FAVORITE PROGRAMS

Make sure that your NSP has connected the VCR to the RG2C. For examples of VCR connections See “TV/VCR/Audio Connections” on page 65.

1. Turn on your VCR.
2. Load the tape you want to record on.
3. Press GUIDE on your remote control.
4. Highlight the channel you wish to record.
5. Press SELECT.
6. Start the record function on your VCR. (Consult your VCR user’s manual for the correct procedure.)

SETTING UP YOUR RG2C TO START YOUR VCR

Note: The IR Blaster (see illustrations on page 74) must be installed and your VCR(s) must be programmed into the RG2C by your NSP before the RG2C can be programmed to record your favorite program. If the IR Blaster hasn’t been installed, contact your NSP.

User Tip: When you are connecting your RG2C to a VCR that has more than one AV input, be sure to plug into the default, or primary input, which could be called AV-1 or L-1.

User Tip: If you don’t want caller ID or other messages to appear in a program you are recording, turn the caller ID feature off. See User Tip on page 27.

User Tip: The record set up can be accessed from the Pay-Per-View menu so your pay-per-view selection can be recorded at the time you choose.

To setup the RG2C:

1. Press GUIDE on your remote control.
2. Use the up or down arrow to highlight the program you wish to record.
3. Press SELECT.

An options menu is displayed.

4. Follow the interactive program guide instructions to set up the times you want to start and stop the recording.

When your programming is complete, the following occurs.

- Your VCR begins recording.
- The record LED on the front panel of RG2C turns on.

Note: You cannot change channels while the recording is in progress.

CANCELLING YOUR RECORDING

If you want to cancel the recording:

1. Press SELECT on your remote control.
2. Use the right arrow to highlight "Cancel."
3. Press SELECT. Your recording will be canceled.

PROGRAMMING YOUR VCR CODE

1. Turn on VCR.
2. Press Menu on the remote control.

The Main Menu is displayed.

3. Use the down arrow to highlight "Setup VCR."
4. Press SELECT.

An options menu is displayed.

5. If you know your VCR brand and code, highlight "Quick VCR Setup." See "VCR Codes" on page 84 for a list of compatible VCRs.
6. Press SELECT.

An interactive action menu is displayed.

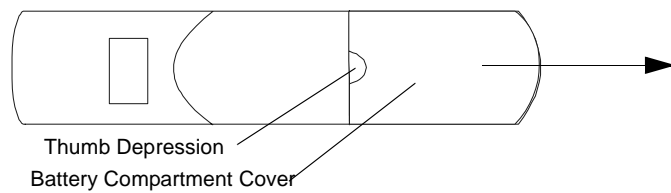
7. Follow the instructions in the menu.
8. If you don't know your VCR code, highlight "Complete VCR Setup."
9. Press SELECT.

An interactive action menu is displayed.

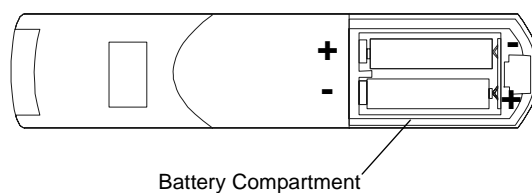
10. Follow the instructions on the menu.

REPLACING REMOTE CONTROL BATTERIES

1. Remove the battery compartment cover by holding the remote control with its back facing you, then pressing the battery cover at the thumb depression and sliding it off in the direction shown in the illustration below.



2. Install two 1.5V AA alkaline batteries, aligning positive and negative terminals according to the diagrams in the battery compartment.



3. Replace the remote control battery cover, snapping it into place.

ADVANCED USE

You may need the information in this section if you want to change the default settings that were set up by your NSP or reprogram your remote control because it is not working correctly.

Note: Your NSP programs your RG2C and remote control when your system is first connected. The NSP also programs the same Gateway ID (this is the ID of your RG2C) into all the remote controls in your home. If there is more than one RG2C in your home, your NSP programs the Gateway ID into the remote controls that communicate with a specific RG2C.

CHANGING OR PROGRAMMING SETTINGS

On-screen programming, using the remote control and the front-panel buttons of the RG2C, allows you to do the following tasks:

- Determine the Gateway ID
- Set the Gateway ID
- Determine the Remote Control ID
- Set the Remote Control ID
- Program TV Code
- Scan TV Codes

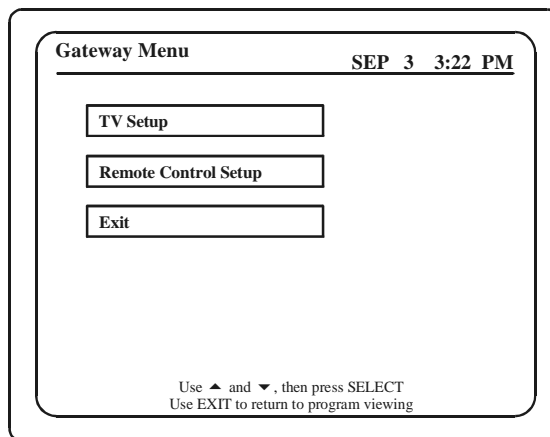
- Verify TV Codes
- Verify the TV RF channel
- Set the Display Language
- Set the Closed Captioning and Teletext
- Set the Secondary Audio
- Set the EADS (Emergency Alert Device Support) display

DETERMINING THE GATEWAY ID

Check, "Write Your Remote Control and Other IDs Here" on page 13. Your NSP may have already written down the Gateway's ID. If the ID has not written down, perform the following steps.

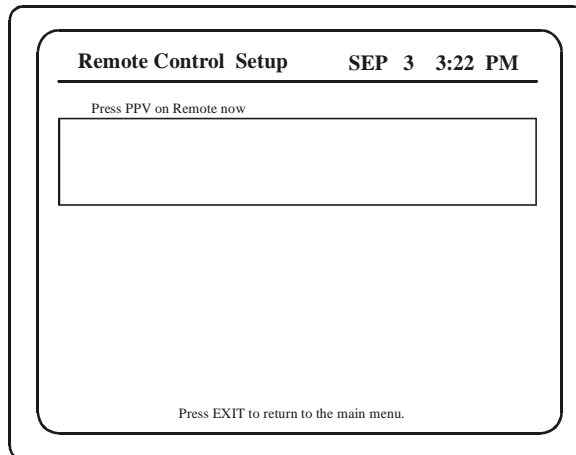
1. Press the SETUP button on the front panel of the RG2C. (See "Using Your RG2C" on page 16 for an illustration and description of this button and other buttons on the RG2Cs.)

The Gateway Menu screen will be displayed on your TV.



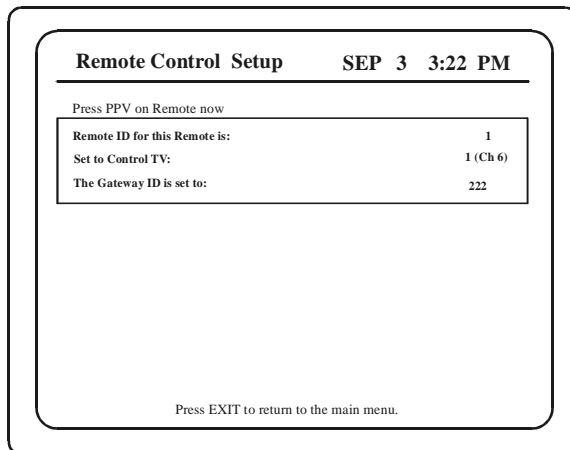
2. Use the down arrow on your remote control to scroll down to Remote Control Setup.
3. Press SELECT on your RG2C or your remote.

The Remote Control Setup screen will be displayed.



4. Press PPV on your remote control.

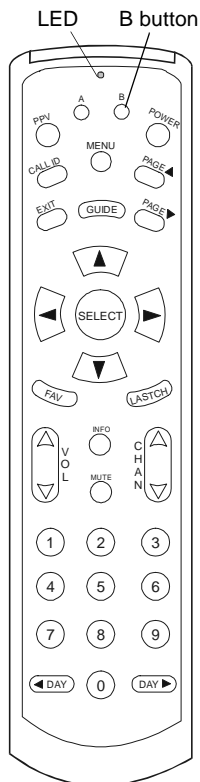
A list is displayed in the central box that shows the ID for the remote, what TV this remote controls, and the Gateway ID.



If the Gateway ID programmed into your remote does not match the Gateway ID of the RG2C, the system prompts you to reset the Gateway ID.

For future reference, write down the Gateway ID number displayed in "Write Your Remote Control and Other IDs Here" on page 13.

5. Press EXIT twice on your remote to exit the Remote Control Setup and Gateway Menus.



SETTING THE GATEWAY ID

1. Press the **B** button and hold it down until the LED at the top of the remote flashes rapidly.
2. Release the **B** button.
3. Enter the following three-button sequence: 7-8-9.

The remote is now in programming mode. You can set the GATEWAY ID.

4. Enter the 3-digit code assigned to your RG2C.

The valid range is 004 - 255. You must enter a number with 3-digits, even if it contains leading zeroes. Examples of valid Gateway ID numbers are: 009, 012, 124, or 255.

If you did not enter the Gateway ID correctly, the following occurs:

- The LED is turned off and the remote control returns to normal operation. Return to the steps at the beginning of this section.

You can verify your Gateway ID by returning to "Determining the Gateway ID" on page 34 and performing the listed steps.

DETERMINING THE REMOTE CONTROL ID

1. Press the **A** button and hold it down until the LED at the top of the remote flashes rapidly.
2. Press the **FAV** button and watch the LED.

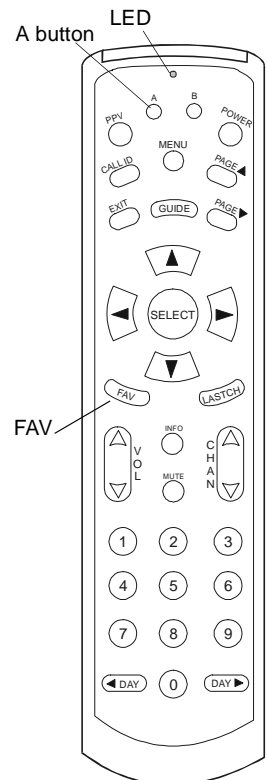
Following are the sequences of flashing that indicate how your remote control ID is programmed.

A short burst of flickering indicates a 0 (zero). The number of longer, steady blinks indicates a non-zero digit, such as the following.

<pause> <long blink> <long blink> <long blink> indicates a "3."

After blinking, the remote returns to normal operation.

Number of flashes	Remote Control ID	Mode
Rapid flickering	For TV1, which is in the same room as your RG2C.	IR (Infra Red)
1	Remote TV1: Primary TV is in a different room than the RG2C.	UHF (ultra high frequency)
2	Remote TV2.	UHF
3	Remote TV3 (VDSL only).	UHF



SETTING THE REMOTE CONTROL ID

Your NSP uses the following table when programming your remote control ID to work with each TV in your household. You may use it, too.

Remote Control ID	Operates TV	Mode
0	Local TV1--TV in same room as RG. The remote is set to operate in IR mode.	IR
1	Remote TV1--TV in a different room than the RG.	UHF
2	TV2 (remote TV).	UHF
3	TV3 (3 band models only).	UHF

TO PROGRAM THE REMOTE CONTROL ID, DO THE FOLLOWING.

1. Press and continue to hold the **A** button until the LED at the top of the remote flashes rapidly.
2. Enter the following three-digit sequence: 7-8-9.

The remote is now in programming mode.

If you entered an invalid sequence or a 20-second lapse in button presses occurs, the LED turns off and the remote control returns to standard operation.

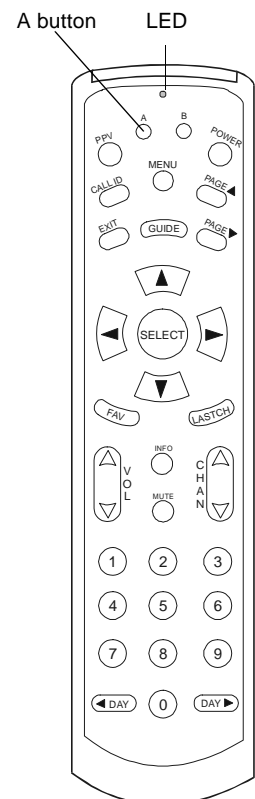
3. Enter the single-digit remote control ID from the table on page 40.

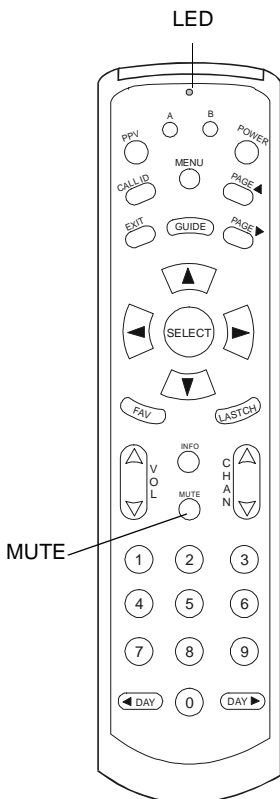
Note: Valid single-digit codes are 0, 1, 2 (and 3, with 3 band models).

If you correctly entered the single-digit code, the LED flashes on and off and then remains off.

Once you have figured out the remote control ID, write 0, 1, 2, or 3 on a label and place this on the TV and the remote to help you identify the TV and the remote to which it is assigned. Your Network Service Provider may have already done this.

You may repeat this procedure for each remote control.





PROGRAMMING THE TV CODE

Your Network Service Provider programs each remote control to work with one TV by way of a TV code. The TV Code is a specific code for each brand and model of TV. When a TV code is set, the remote control is able to address the specific signaling requirements for that TV.

The TV codes can be programmed manually, or they can be scanned as described below. TV codes are listed in "TV Codes" on page 81.

If your NSP has programmed this for you, you will need to program the TV code, or model information, into the remote control in order to operate your TV.

1. Press the MUTE button and hold it down until the LED at the top of the remote control flashes rapidly.
2. While the LED button is flashing, enter the three digit code that corresponds to the brand name of the TV. See "TV Codes" on page 81.

If the code is valid, the LED will flash on and off three times and then remain off.

If an invalid code is entered or a 20 second lapse in button presses occurs, the LED will turn off and the remote control will return to normal operation. You will need to repeat the above procedure to program the TV code.

PROGRAMMING THE REMOTE USING CODE SEARCH METHOD

You can obtain TV codes by using the search method. To do this:

1. Press the MUTE button and hold it down until the LED at the top of the remote control flashes rapidly.
2. Press the POWER button. The LED will light up and remain solidly lit.
3. Press the up arrow to scan through all TV codes. When you reach the correct TV code, the TV will automatically turn on, or off if it was previously on. Note that the LED will flash rapidly once you have scanned through all the codes.
4. Press the SELECT button to store the TV code. The LED flashes rapidly, then stops, indicating that the TV code has been stored.
5. Repeat procedure for each remote control.
6. If you press the up arrow too rapidly, you may pass the TV code before the TV turns on or off. If you are not sure you are storing the correct TV code, press the down arrow slowly to cycle back through codes that have been previously scanned.
7. When the TV turns off, or on if it was previously off, press SELECT at that point to store the TV code.

VERIFYING THE TV CODES

1. Press the MUTE button and hold it down until the LED at the top of the remote control flashes rapidly.

2. Press the FAV button and observe the LED. The TV code will be indicated by a blink sequence for each number. For example, code 130 would show as the following:

<pause> <long blink> <off> (represents 1)

<pause> <long blink> <long blink> <long blink><off> (represents 3)

<pause> <short burst of flickering blinks> <off> (represents 0)

VERIFYING AND SETTING OTHER FEATURES

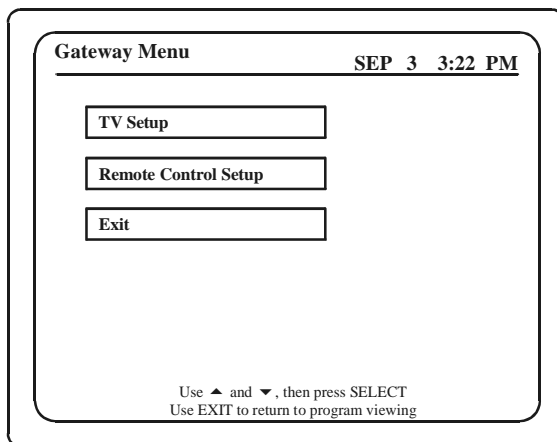
The TV Setup menu allows you to read the TV RF settings, as well as set Secondary Audio, Display Language and the EADS display. These settings are accessed in the TV Setup Menu.

ACCESSING THE TV SETUP MENU

To access TV Setup Menu:

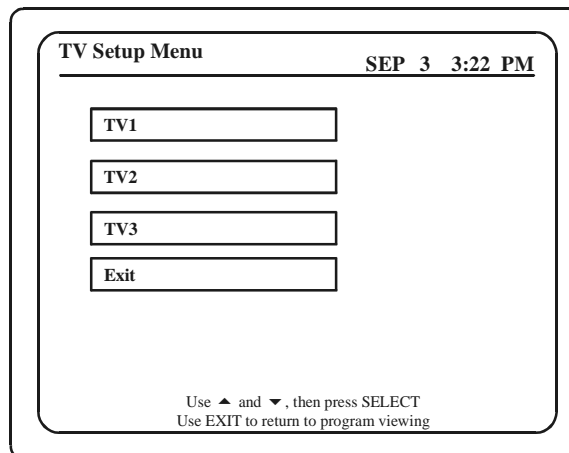
1. Press the SETUP button on the front panel of the RG2C.

The Gateway Menu is displayed on your TV screen.



2. Use the down or up arrow on the RG2C or the remote to highlight TV Setup.
3. Press the SELECT button on the RG2C or the remote control.

The TV Setup menu is displayed on your TV screen.



Note: The SELECT button on the remote control opens the Gateway menu only on the TV/Source that the remote control is programmed to operate. If you press SELECT and nothing happens, you need to determine which TV the remote operates. See “Determining the Remote Control ID” on page 39.

VERIFYING THE TV (RF) SETTING

1. Press SETUP button on the RG2C front panel.

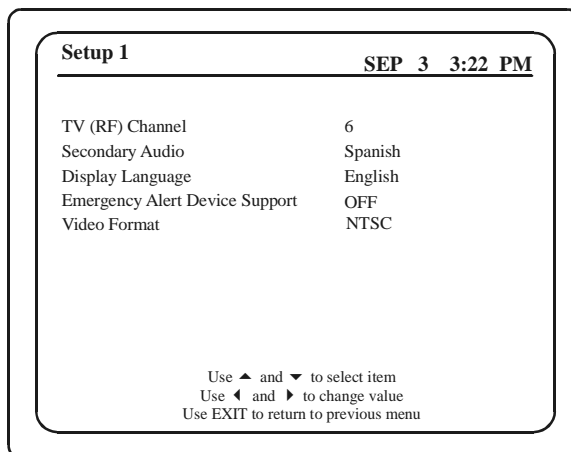
The Gateway Menu is displayed.

2. Use the down or up arrow on the RG2C or the remote control to scroll to TV Setup.
3. Press SELECT.

The TV Setup Menu will be displayed on your TV.

4. Use the down or up arrow on the remote control to highlight the TV you want to examine.
5. Press SELECT.

For example, if you selected TV1, the Setup 1 menu will be displayed.



The selected RF setting is displayed, in this case channel 6 has been selected.

Note: Your Network Service Provider sets up the initial RF channel settings and your TV to provide program channels by programming the output to a specific RF channel. If you need to change the RF channel settings, it is recommended that you call your NSP to do this for you.

6. Press the EXIT button twice to exit back to the program screen.

SECONDARY AUDIO: SPECIFYING A PREFERRED LANGUAGE

Secondary audio allows you to select a preferred language for each TV.

Your NSP may deliver up to four audio programs with each video program. Your NSP may specify, for example, English as the first language, Spanish as the second, French as the third and Chinese as the fourth. If the preferred language is available, the alternate language audio track will be transmitted with the video program.

If a selected language is not provided on a particular channel, the RG2C defaults to the primary language provided with the program. For example, if you are watching a Spanish-only channel, Spanish audio is played regardless of the Secondary Audio Display option.

1. Press the SETUP button on the RG2C.

The Gateway Menu is displayed.

2. Use the up and down arrow buttons to highlight the TV Setup option.
3. Press SELECT.

The TV Setup menu is displayed.

4. Use the up and down arrow buttons to highlight the TV you want to modify (TV1, 2 or 3).
5. Press SELECT.

The Setup TV# menu is displayed.

6. Use the up or down arrow button on your RG2C or remote control to highlight Secondary Audio.
7. Use the left and right arrow buttons to cycle through the alternate languages until the language you want is displayed.
8. Press the EXIT button twice to return to the program screen.

DISPLAY LANGUAGE

1. Press the SETUP button on the RG2C.

The Gateway Menu is displayed.

2. Use the up and down arrow buttons to highlight the TV Setup option.
3. Press SELECT.

The TV Setup menu is displayed.

4. Use the up and down arrow buttons to highlight the TV you want to modify (TV1, 2 or 3).
5. Press SELECT.

The Setup TV# menu is displayed.

6. Use the up or down arrow button on your RG2C or remote control to highlight Display Language.
7. Press the right arrow button to highlight the default language, which was English in the previous examples.
8. Continue to press the right arrow button in the language field until the language you want appears. Available languages are English, Spanish, French, and Norwegian.
9. When you have selected the preferred language, press EXIT to return to the Main Menu screen.

CLOSED CAPTIONING

The RG2C supports closed captioning capability. Refer to your TV User's Guide for instructions on how to use closed captioning.

TELETEXT

Some televisions in European countries support Teletext. Teletext data is passed through the RG2C to your television. Refer to your TV's User's Guide for instructions on how to use Teletext.

EADS (EMERGENCY ALERT DEVICE SUPPORT)

Your NSP enables the EADS (Emergency Alert Device Support) on each TV when service is established. If you would like to disable or change the EADS settings, use the following directions:

1. Press the SETUP button on the RG2C.

The Gateway Menu is displayed.

2. Use the up and down arrow buttons to highlight the TV Setup option.
3. Press SELECT.

The TV Setup menu is displayed.

4. Use the up and down arrow buttons to highlight the TV/Source you want to modify.
5. Press SELECT.

The Setup (TV#) menu appears on your TV screen.

6. Use the up and down arrows to highlight Emergency Alert Device Support.
7. Press the right or left arrow buttons to enable/disable Emergency Alert Device Support.
8. Press EXIT to return to the previous menu.

If Emergency Alert Device Support is enabled, the following occurs for all EAS (Emergency Alert System) broadcasts:

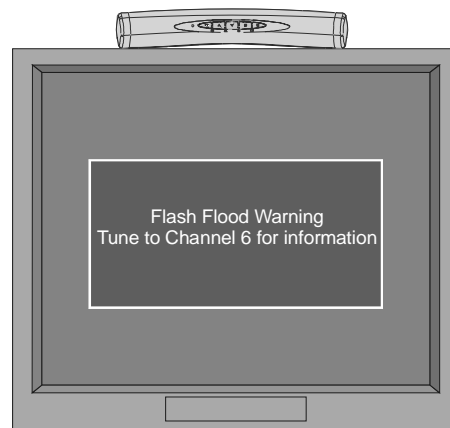
- You hear a two-tone attention signal during Emergency Alert broadcasts.
- The RG2C automatically tunes your TV to the channel broadcasting the EAS message.
- The emergency message appears at the top of your TV screen.



If EADS is not enabled, one of the following occurs, depending on the type of EAS broadcast:

- You hear a two-tone attention signal.
- A pop-up message appears on your TV screen to advise you of what type of emergency has occurred and the channel you should tune for more information.
- The RG2C automatically tunes your TV to the channel broadcasting the EAS message.

For national and required monthly testing alerts, the RG2C automatically tunes your TV to the EADS broadcast channel.



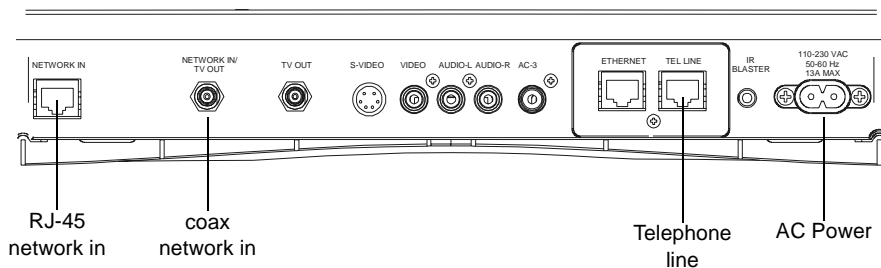
COMMON CONNECTIONS

Place your RG2C in the area with your primary TV and entertainment center. The common inputs and outputs of the RG2C include:

- Power
- Network
- Telephone line

Use the telephone line input only if you subscribe to voice mail or Caller ID through your Network Access Provider.

back panel



1. Locate the AC power cord.
2. Plug the AC power cord into your home's electrical AC power source.
3. Locate the NETWORK IN input.
4. There are two methods to make a NETWORK IN connection. Depending on how your NSP has set up your configuration:
 - Using CAT 5 cable, connect the RJ-45 connector from your network wall jack to the NETWORK IN input on the RG2C.
 - Using coax cable, connect the coax connector from your network wall jack to the NETWORK IN input on the RG2C.
5. On the back panel of the RG2C, locate the TEL LINE input.
6. Using the existing telephone line, connect the RJ-11 connector from the primary telephone jack to the TEL LINE input on the RG2C.

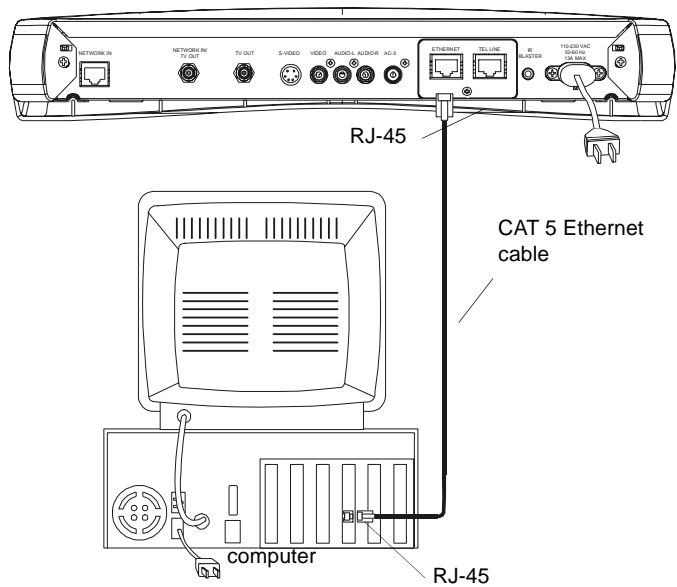
CONNECTING YOUR COMPUTER TO THE INTERNET

Important! Connecting your computer to the Internet and setting up the communications protocols on your computer should be done by your NSP. The following illustrations are for reference if you to move or replace your computer(s).

ETHERNET CONNECTIONS

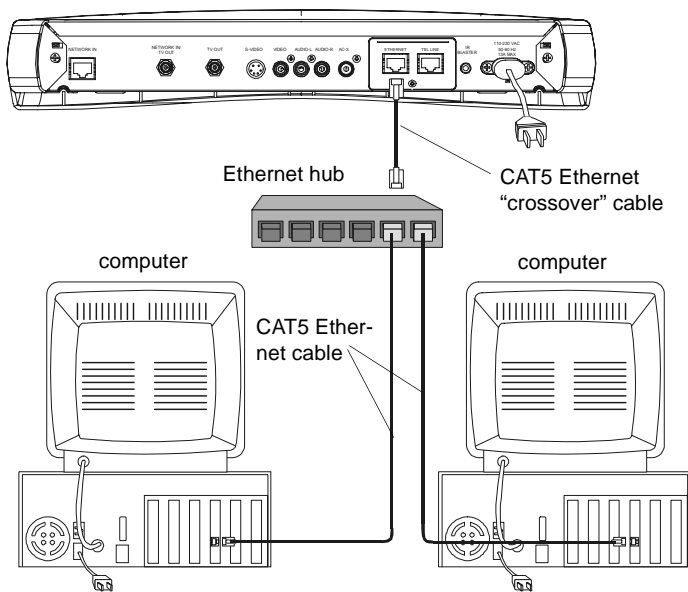
Important! Although they appear identical, the CAT 5 cable that connects your RG2C to your NSP (Network Service Provider) may be wired differently than the RJ-45 cable that connects your computer to the RG2C. Do not switch these two cables. If the cables are switched, the network connection to your RG2C, or your Ethernet connection to your computer may not operate. It is recommended that you label the two cables to avoid inadvertently switching them.

Single computer connected to the Internet through the RG2C



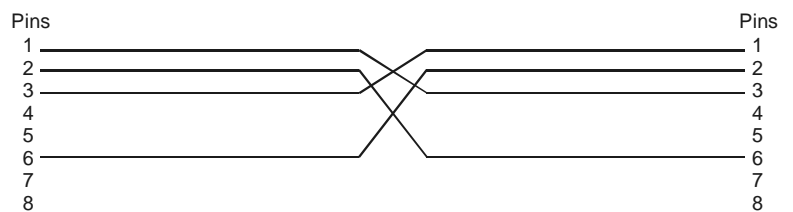
The RG2C Ethernet output can connect to multiple computers through the use of a hub or router. Whether all computers connected in this manner can be provided with Internet access service depends on your NSP.

Multiple computers connected to the Internet through the RG2C.



A 10/100BaseT Ethernet connection between an RG2C and a hub typically requires a crossover connection. A crossover connection is one in which wires 1 and 2 are cross-connected with wires 3 and 6, as illustrated in the figure below.

Crossover configuration



Note: Two consecutive crossovers (for example, a crossover cable and a crossover switch set to “Crossover”) amount to a straight-through connection.

Setting up a crossover or straight-through connection involves use of an appropriate cable, or switch. Ethernet cables come in two types: crossover or straight-through. Some Ethernet hubs may have built-in crossover switches or have one port wired for crossover connection. Crossover switches allow you to toggle between crossover and straight-through connections without changing cables.

1. To set up Ethernet crossover or straight-through operation, determine whether you have a crossover or straight-through cable installed between the RG2C and the Ethernet hub.
2. To switch to the alternate connection, obtain and install the alternate type of cable between the RG2C and the Ethernet hub. Or, you may flip the crossover switch if there is one on your Ethernet hub.

Add an Ethernet hub to your RG2C system by following the steps below. Then proceed to Task 3.

Note: You do not need to remove the RG2C power cord or disconnect the network cable from the RG2C while following these steps.

1. Disconnect the Ethernet workstation cable from the 10/100BaseT connector on the rear panel of the RG2C.
2. Disconnect the other end of the Ethernet workstation cable from the workstation. You may or may not be able to reuse this cable to connect the RG2C to the Ethernet hub, depending on whether a crossover or straight-through connection is needed. You should be able to reuse this cable to connect the Ethernet hub to an Ethernet workstation.
3. Install the hub and the Ethernet workstations, as instructed in the manufacturer's instructions.

CONFIGURATION EXAMPLES

Your Network Service Provider installs the RG2C and connects all your electronic devices to the RG2C. However, you may need the information in this section if you ever want to do any of the following:

- Move existing devices to a different location
- Add new devices to your system
- Reconfigure existing connections

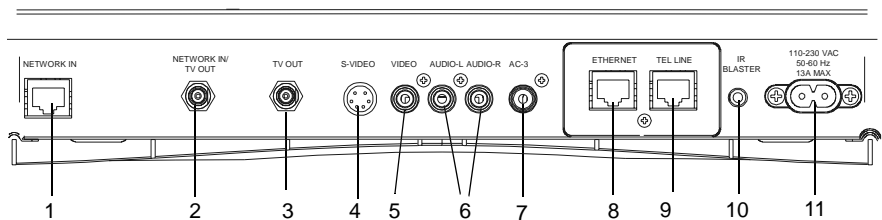
Note: The RG2C should be located in the area with your primary TV (TV1) and your home entertainment system.

When you rearrange your equipment, be sure to unplug and plug in your equipment in the following order:

1. Unplug all electronic devices, including the TV, VCR, and RG2C.
2. Disconnect all cables between your electronic devices.
3. Make your planned changes.
4. Reconnect the cables between these devices.
5. After you have connected the cables, first plug in the RG2C.

User Tip: When you are plugging your RG2C into a VCR that has more than one AV input, be sure to plug your RG2C into the default, or primary input, which could be called AV-1 or L-1. Consult your VCR user's manual.

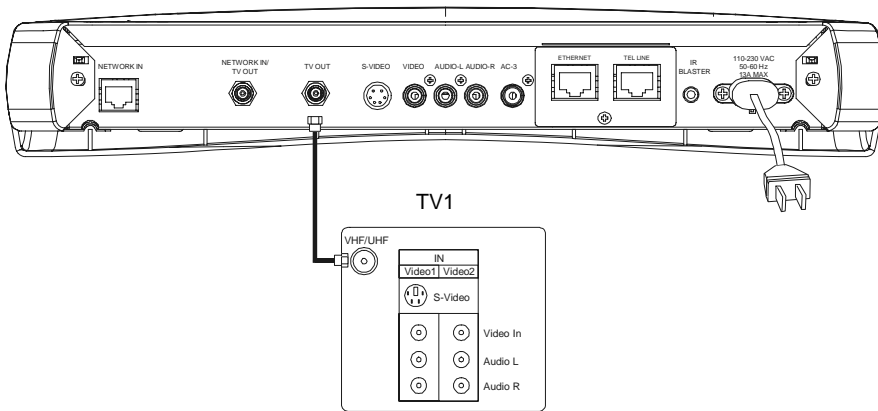
RG2C back panel.



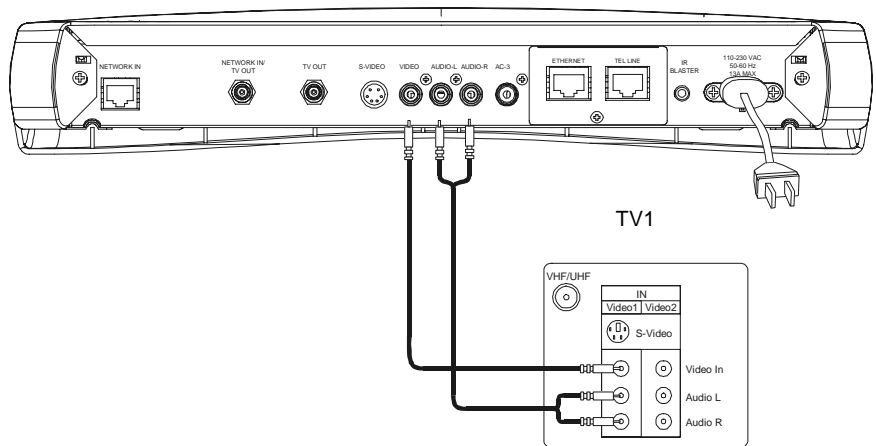
1. NETWORK IN.
2. NETWORK IN/TV OUT.
3. TV OUT.
4. S-VIDEO.
5. VIDEO (composite).
6. AUDIO L and AUDIO R.
7. DIGITAL AUDIO (Dolby Digital, formerly known as AC-3, on S/P-DIF connector).
8. Ethernet port.
9. TEL LINE.
10. IR BLASTER.
11. AC power.

TV/VCR/AUDIO CONNECTIONS

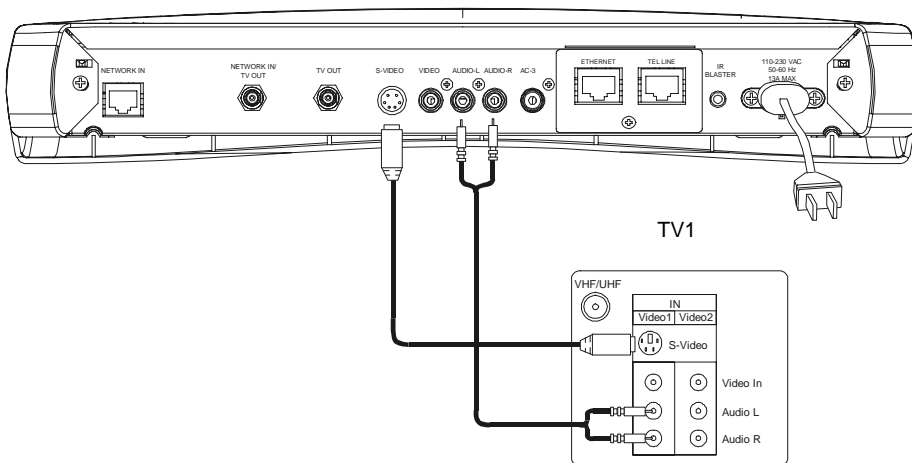
TV OUT (VHF) to TV1.



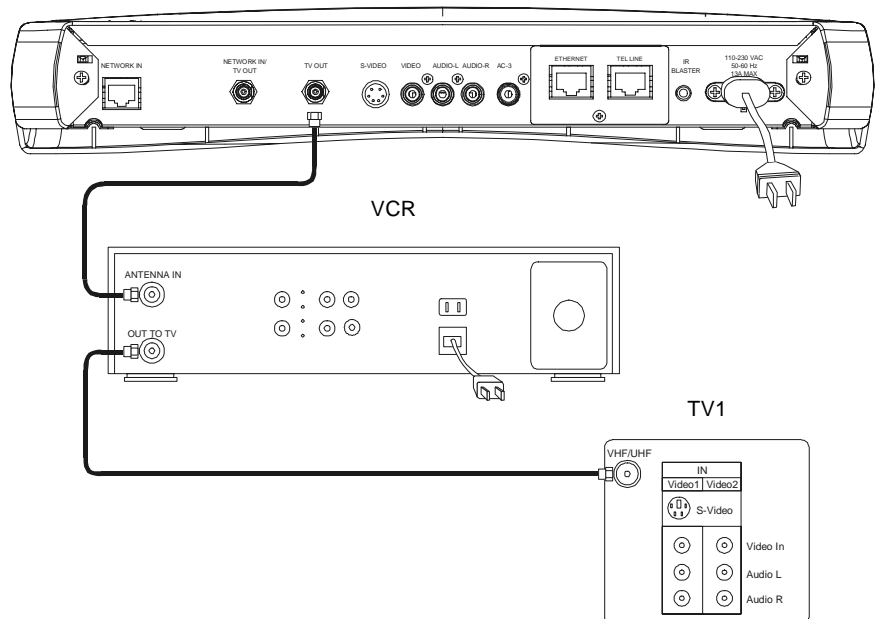
VIDEO (composite)/AUDIO-L/AUDIO-R to TV1.



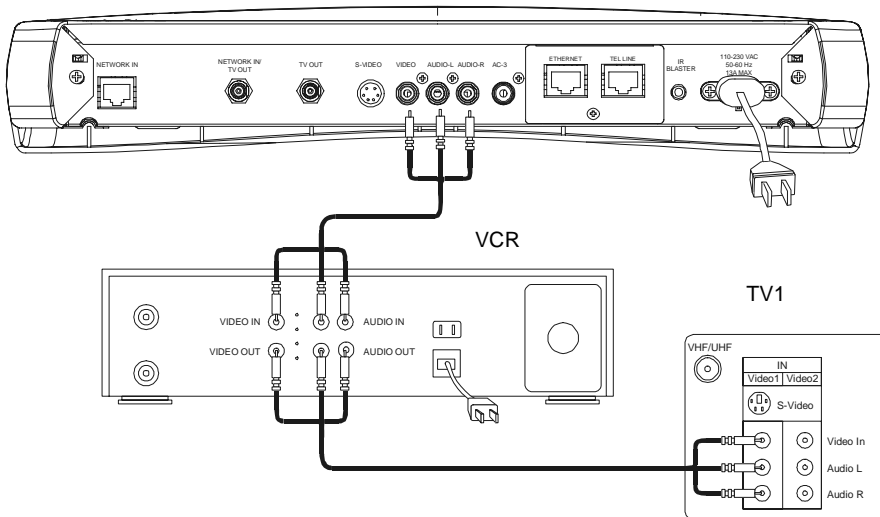
S-VIDEO/AUDIO-L/AUDIO-R to TV1.



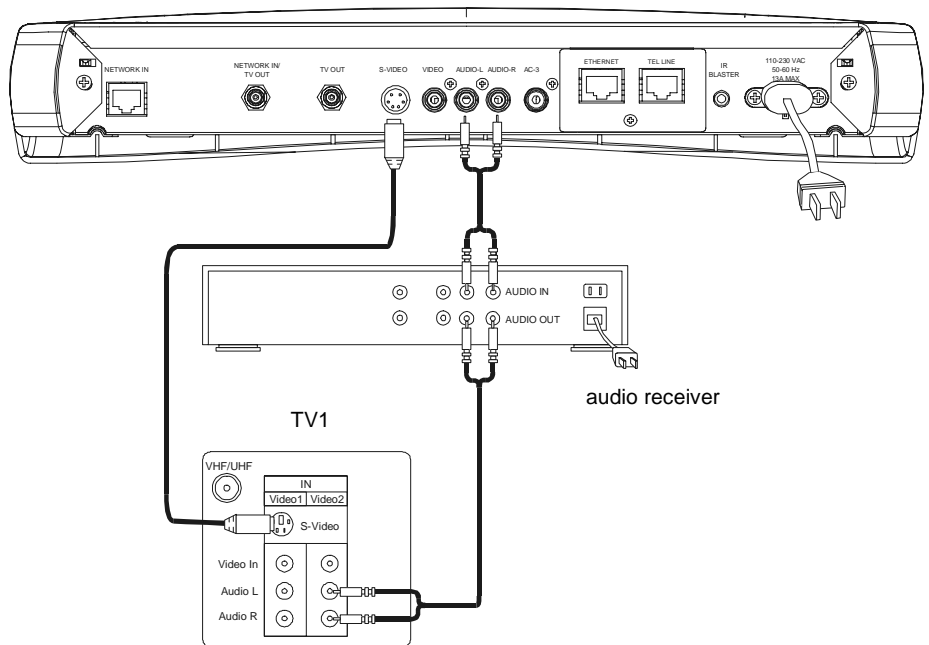
TV OUT (VHF) to VCR/TV1.



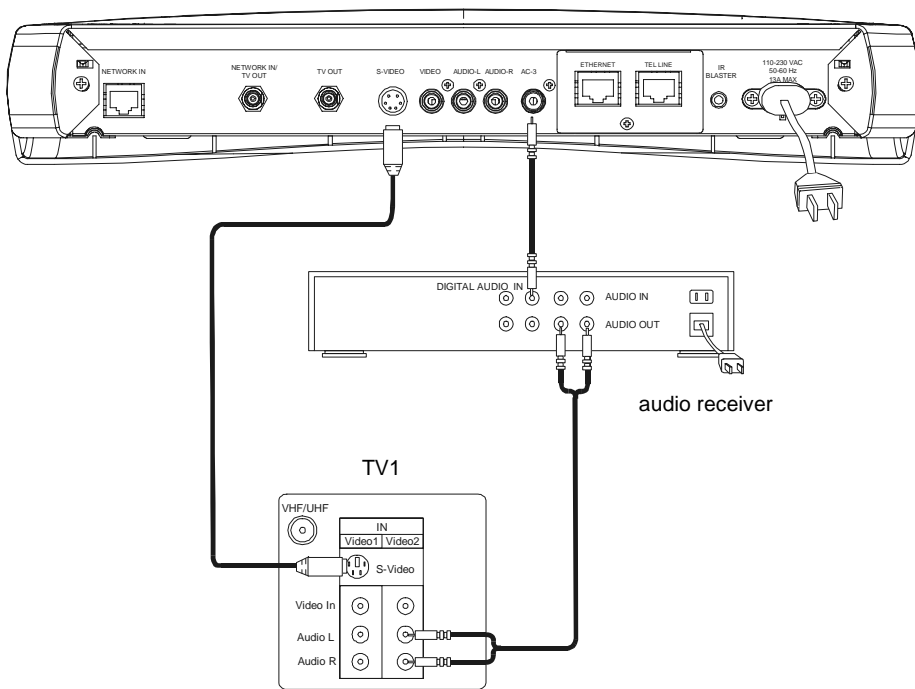
Composite VIDEO with AUDIO-L/AUDIO-R to VCR and TV1.



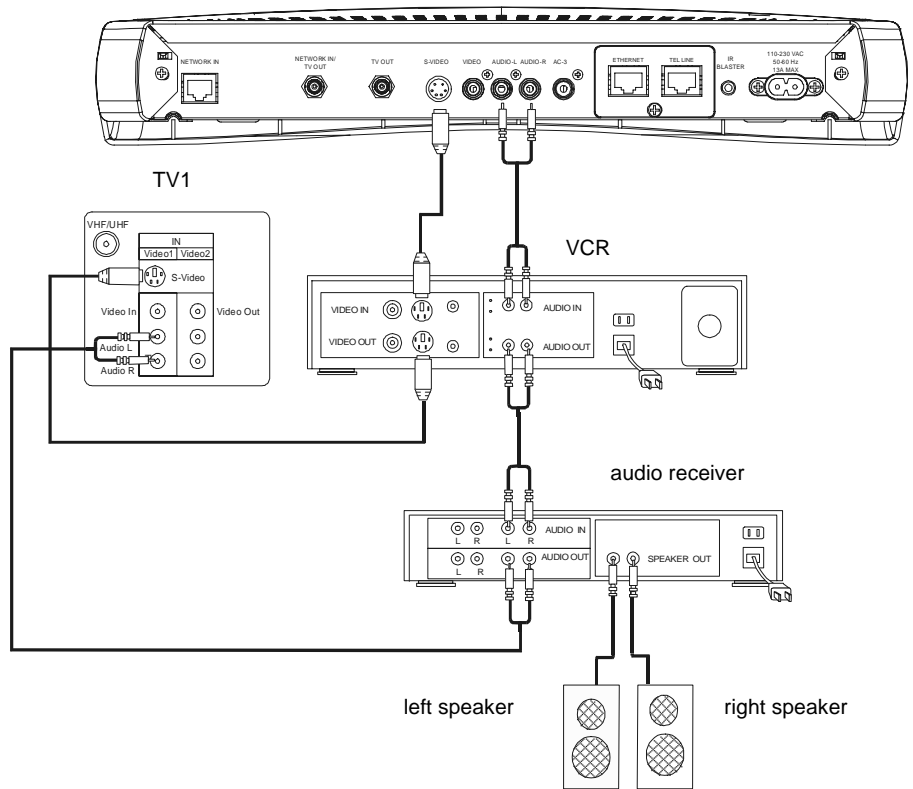
S-VIDEO and AUDIO-L/AUDIO-R to audio receiver and TV1.



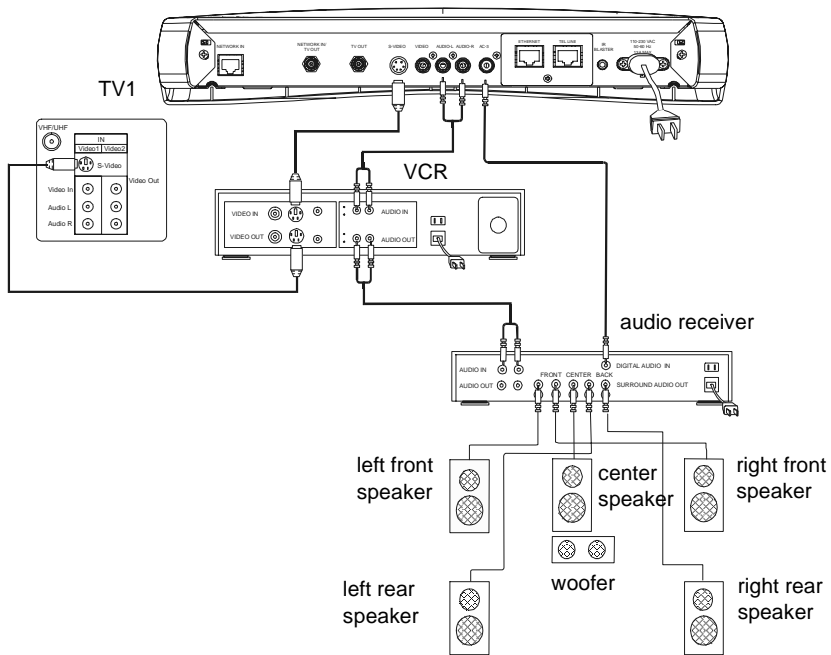
S-VIDEO/Digital Audio to audio receiver and TV1.



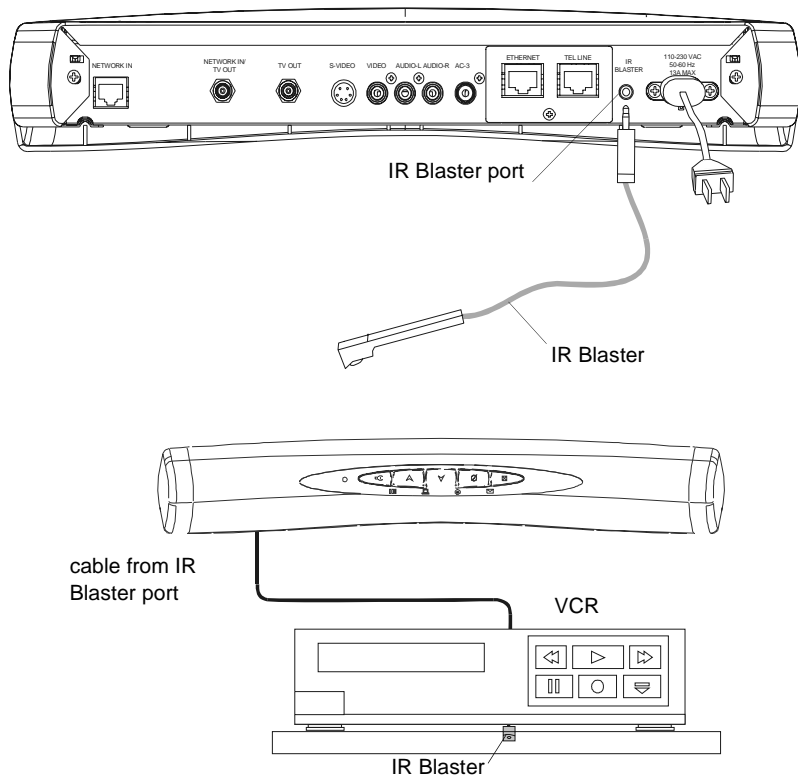
Basic home entertainment center.



Advanced home entertainment center with Surround Sound (with Dolby Digital 5.1 capability).



IR Blaster connection and positioning.



TROUBLESHOOTING

This section describes what to do if your system is not working correctly. Study the following tables to find possible causes and solutions to the problem.

Problem	Possible Cause	Try This
Remote for primary TV doesn't work.	Dead batteries.	Change the batteries in your remote according to the instructions on page 32.
	Obstruction between the remote and the RG2C or IR Transmitter.	Make sure that nothing is on or blocking a clear line of sight between the RG2C and the remote.
Remote does not accept programming changes.	Weak batteries.	Replace batteries and reprogram.
Remote does not operate at secondary viewing locations.	Weak or dead batteries.	Replace batteries.
	Using wrong remote for that TV.	Check remote label to be sure you are using correct remote control.
	Obstruction between the remote and the TV.	Make sure that nothing is on or blocking a clear line of sight between the TV and the remote.
No sound.	MUTE is pressed on the remote control.	Press MUTE on the remote to restore volume level.
	TV code not programmed.	Refer to "Programming the TV Code" on page 42.

Problem	Possible Cause	Try This
No picture. (Blue or black TV screen or all snow picture)	TV or RG2C may not be activated.	Refer to "Getting Started" on page 15.
	Video signal may not be reaching the TV.	Make sure all cables are connected properly and that your TV is tuned to the correct RF channel (for example 6,7, or 13) for the TV you are using (TV-1, TV-2, or TV-3). If the baseband video output on the RG2C is connected to the VIDEO IN input on the TV, make sure the TV is set to the correct video input.
	VCR may be set incorrectly.	Check to see how the VCR is connected to the RG2C. If the baseband video output on the RG2C is connected to the VCR, the VCR must be ON and programmed to LINE IN or VIDEO IN. Make sure VCR/TV is set to TV. Make sure the TV is set to the correct TV channel or video input.
No picture.	Your RG2C may have recently received a software download. Sometimes after a download the system fails to restart. You may need to manually restart your RG2C.	To restart your RG2C, press and hold down the power button on the front panel for 5 seconds.
Picture is distorted.	Coaxial cable is disconnected or loose.	Reconnect or tighten the cable.
All-snow picture on all TV channels.	VCR is on at this location and TV is on wrong channel.	Call your NSP to reset your RF channel.
	TV is on wrong channel for Source.	Call your NSP to reset your RF channel.

Problem	Possible Cause	Try This
Only one stereo speaker has sound.	Audio connections are loose.	Reconnect audio connections. Check to make sure that no wires are frayed and no plugs are bent or broken.
No power.	Power cord is disconnected.	Check to make sure that the RG2C is plugged into a live electrical outlet. Note: If the outlet is controlled by a wall switch, make sure the switch is on.
VCR will not record.	VCR is on wrong channel.	See "Changing Channels" on page 21.
	VCR is programmed incorrectly.	Refer to the VCR User's Manual.
	VCR is not connected properly.	See "TV/VCR/Audio Connections" on page 65.
	VCR is connected with RCA jacks and is not in correct mode.	Place the VCR on the LINE input. This can be accomplished using the VCR menu or changing the VCR channel until the display on the VCR indicates LINE.
	Safety tab on tape is broken.	Use a new tape.
VCR will not play tapes.	TV on wrong channel for playback or not using the correct input.	Tune TV to correct RF channel.
	VCR is not connected properly.	See "TV/VCR/Audio Connections" on page 65.
Amber On-line LED.	You don't have on-line services.	Call your Network Service Provider to initiate service.

Problem	Possible Cause	Try This
Amber Network LED.	The Gateway is not ready for use.	Unplug power connection on back of Gateway then reconnect if light stays on more than 10 minutes.
<p>Message on TV screen: "There is a problem with the network, Third video not available."</p> <p>Or, you are unable to make channel changes.</p>	TV program temporarily not available.	<p>Wait several seconds and try again. If you are still unable to make the channel change, turn off one of the other TV programs by shutting off the TV with the SRC-200 remote. The RG2C detects that the TV program is no longer being watched. This should free up programming for the other TV and should allow you to receive video on the third TV.</p>

CONTACTING YOUR NETWORK SERVICE PROVIDER FOR HELP

If you are unable to fix the problem yourself, contact your NSP for assistance. Depending on the problem you are having, your NSP may ask for your RG2C's model number. To find out what the model number is:

- Press the SETUP button on the front panel of the RG2C. The GATEWAY menu appears.
- Select Remote Control Setup. The model number appears in the upper right-hand corner of the screen. For example, RG2BV30000.

Be sure that the remote control you are using came with your RG2C. Using more than one type of remote with the RG2C does not work. Your NSP equips you with a set of remote controls that are all of the same type and model. For information about setting up and programming your system using the RG2C remote control as well as setting up features such as Emergency Alert Services and Caller ID, see the second section of this manual, see "Advanced Use" on page 33.

TV AND VCR CODES

TV CODES

This section lists TV models that are compatible with the RG2C and their codes. If you do not find the TV code you need in the list, call your NSP.

TV and Codes
AOC: 005, 006, 019, 120, 140
Admiral: 018, 194, 210
Aiwa: 194, 251
Akai: 000, 005, 032, 070
Amark: 120, 224
Amstrad: 033
Anam: 005, 009, 021, 041, 120, 121
Anam-National: 211
Archer: 120
Audio Dynamics: 238
Audiovox: 120
Bell & Howell: 018

TV and Codes
Broksonic: 005, 174, 225, 226
CXC: 041
Candle: 005, 006, 022, 025
Capehart: 019
Centurion: 194
Citizen: 005, 006, 016, 018, 022, 024, 025, 098, 202, 224
Concerto: 005
Contec: 017, 041, 185, 227
Corando: 224
Craig: 021, 041
Crown: 098
Curtis-Mathes: 005, 006, 016, 018, 059, 098, 125, 194, 202, 210, 224, 231
DBX: 238

TV and Codes
Daewoo: 005, 024, 029, 030, 032, 098, 214, 215, 224, 247, 252
Daytron: 098, 194, 224
Dimensia: 125
Electrohome: 098, 224, 240
Emerson: 005, 017, 033, 035, 037, 038, 039, 041, 098, 143, 176, 185, 187, 203, 222, 223, 224, 225, 226, 227, 251
Fisher: 042, 194, 217
Fujitsu: 187
Funai: 041, 187, 251
Futuretech: 041
GE: 003, 005, 008, 009, 043, 125, 130, 147, 206, 210, 211, 228, 231, 248
Goldstar: 005, 010, 045, 098, 194, 223, 224, 230, 238

TV and Codes
Hallmark: 005
Harmon Kardon: 238
Hinari: 187
Hitachi: 005, 018, 048, 049, 050, 051, 052, 053, 054, 055, 098, 126, 185, 224, 231, 251
Infinity: 010
JBL: 010
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MTC: 005, 006, 016, 202
Magnavox: 000, 005, 006, 010, 017, 025, 027, 067, 068, 110, 154, 167, 175, 194, 224, 231, 237, 251, 255
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Philco: 005, 006, 010, 025, 067, 068, 110, 224, 237, 251
Philips: 005, 010, 025, 027, 068, 220, 223, 224, 237, 251
Pioneer: 002, 048, 051, 076, 235
Portland: 005, 098, 224
Proscan: 125, 147, 210
Proton: 005, 006, 013, 019, 098, 224
Pulsar: 001, 248
Quasar: 008, 009, 211, 231, 242
RCA: 003, 005, 014, 048, 078, 079, 080, 082, 084, 085, 086, 087, 125, 147, 210, 231, 251, 255

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Radio Shack: 005, 041, 098, 141, 194, 224, 230, 242
Realistic: 041, 141, 194, 222, 223, 224, 251
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SAA: 145
SSS: 005, 041
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Saisho: 032, 033, 109
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Samsung: 005, 006, 010, 016, 032, 098, 194, 202, 221, 224, 244, 246, 247
Sansui: 225, 235
Sanyo: 017, 042, 089, 092, 109, 194, 217, 244
Scott: 005, 037, 041, 093, 098, 187, 194, 224, 247
Sears: 003, 005, 042, 096, 098, 099, 101, 102, 104, 125, 131, 187, 194, 202, 217, 223, 224
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Soundesign: 005, 025, 041, 251
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Supra: 005, 022
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Teknika: 005, 010, 016, 018, 022, 024, 025, 041, 072, 098, 114, 187, 202, 223, 224, 251
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Yamaha: 005, 006, 238, 251
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VCR CODES

This table lists the VCR models and code numbers that are compatible with the RG2C. If you do not find the code you need in the list shown, call your NSP.

VCR and Codes
Admiral: 048, 209
Adventura: 000
Aiko: 278
Aiwa: 307, 000, 037
Akai: 106, 053, 041, 061
America Action: 278
American High: 035
Asha: 240
Audiovox: 037
Beaumarck: 240
Bell & Howell: 104
Broksonic: 121, 184, 002, 209, 211, 479
CCE: 072, 278

VCR and Codes
Calix: 037
Canon: 035
Capehart: 020
Carver: 081
Cineral: 278
Citizen: 278, 037
Colt: 072
Craig: 037, 072, 047, 240, 271
Curtis Mathes: 035, 041, 060, 162
Cybernex: 051, 240
Daewoo: 278, 561, 020, 045
Daytron: 020
Denon: 042
Dynatech: 000
Electrohome: 037
Electroponic: 037
Emerex: 032
Emerson: 184, 002, 209, 278, 036, 121, 211, 208, 479, 561, 061, 088, 212, 000, 037, 043, 068

VCR and Codes
Fisher: 047, 104, 054, 066
Fuji: 033, 035
Funai: 000
GE: 035, 060, 048, 202, 240
Garrard: 000
Go Video: 432, 526, 232
GoldStar: 037, 038
Gradiente: 008, 000
Grundig: 195
Harley Davidson: 000
Harman/Kardon: 038, 081
Harwood: 068, 072
Headquarter: 046
Hitachi: 042, 105, 000, 041
HI-Q: 047
Hughes Network Systems: 042
JVC: 067, 008, 041
Jensen: 041
KEC: 037, 278

VCR and Codes
KLH: 072
Kenwood: 041, 067, 038
Kodak: 035, 037
LXI: 037
Lloyd's 000, 208
Logik: 072
MEI: 035
MGA: 043, 061, 240
MGN Technology: 240
MTC: 000, 240
Magnasonic: 278
Magnavox: 035, 081, 000, 039, 149
Magnin: 240
Marantz: 081, 035
Marta: 037
Matsushita: 035, 162
Memorex: 104, 047, 000, 037, 048, 035, 046, 240, 307, 039, 209, 162
Minolta: 105, 042
Mitsubishi: 043, 173, 061, 048, 067
Motorola: 035, 048
Multitech: 000, 072

VCR and Codes
NAD: 058
NEC: 038, 040, 041, 067, 104
Nikko: 037
Nikon: 034
Noblex: 240
Olympus: 035
Optimus: 162, 048, 058, 037, 104, 432
Optonica: 062
Orion: 479, 002, 184, 209
Panasonic: 035, 162, 077, 225, 616
Penney: 035, 240, 037, 042, 038, 040, 054
Pentax: 042, 105
Philco: 035, 209, 479
Philips: 081, 035, 062
Pilot: 037
Pioneer: 058, 067
Portland: 020
Profitronic: 240
Proscan: 060, 202
Protec: 072
Pulsar: 039, 051

VCR and Codes
Quarter: 046
Quartz: 046
Quasar: 035, 162, 077
RCA: 060, 149, 202, 042, 105, 035, 048, 077, 106, 240
Radio Shack: 000
Radix: 037
Randex: 037
Realistic: 000, 104, 047, 048, 037, 035, 062, 046, 066
Ricoh: 034
Runco: 039
STS: 042
Samsung: 045, 051, 053, 240
Sanky: 039, 048
Sansui: 041, 479, 000, 067, 209, 271
Sanyo: 047, 046, 104, 240
Scott: 184, 211, 121, 043, 045, 210, 212
Sears: 054, 105, 037, 042, 000, 035, 046, 047, 066, 104
Semp: 045
Sharp: 048, 062

VCR and Codes
Shintom: 072
Shogun: 051, 240
Singer: 072
Sony: 033, 034, 032, 000, 035
Sylvania: 035, 081, 000, 043
Symphonic: 000
TMK: 036, 208, 240
Tatung: 041
Teac: 000, 041
Technics: 035, 162
Teknika: 000, 035, 037
Thomas: 000
Toshiba: 045, 210, 212, 043, 066, 366
Totevision: 037, 240
Unitech: 240
Vector: 045
Vector Research: 038, 040
Video Concepts: 040, 045, 061
Videosonic: 240
Wards: 035, 060, 062, 000, 047, 212, 240, 042, 048, 072, 081, 149
White Westinghouse: 278, 209

VCR and Codes
XR-1000: 072, 000, 035
Yamaha: 038
Zenith: 039, 000, 033, 034, 209, 479
Note: The N ³ Residential Gateway IR Blaster feature is not compatible with the following equipment:
<ul style="list-style-type: none"> Samsun VCR/TV model number CDX1342 Philips VCR model number VRX364AT

SPECIFICATIONS

Cabling Requirements

Input/Output	Cable (connector)
NETWORK IN	CAT 5 (RJ-45)
DOLBY DIGITAL AUDIO(AC-3)	shielded phono (RCA male)
AUDIO L/R	shielded phono (RCA male)
VIDEO	shielded phono (RCA male)
S-VIDEO	S-video
NETWORK IN/TV OUT	coax (F male)
TV OUT	coax (F male)
ETHERNET	CAT 5 (RJ-45)
TEL LINE	telephone (RJ-11)
IR BLASTER	pigtail (3.5 mm mini male)

Power Requirements

Condition	Power Consumption (watts)
normal operation	40 watts, 100-125 VAC at 60 Hz

Environmental

Temperature Range	Storage Range	Humidity Range (non-condensing)
0 to 45 degrees C	-40°C to + 80 degrees C	5% to 95%

Dimensions

Height	Widths	Depth
2 5/8 in. (6.67 cm)	15 5/8 in. (39.7 cm)	11 3/8 in. (28.9 cm)

CERTIFICATIONS

- FCC, Class B
- UL 1950, CSA 22.2-1950
- CS Mark
- ASTM D (mechanical shock and vibration standards)

FCC STATEMENT OF COMPLIANCE

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTICE This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the antenna.
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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