

Consolidate Five Remote Controls Into One!

SET UP INSTRUCTIONS INSIDE

- Updated code library now includes codes for Dish Network satellite receivers
- Dedicated Guide, Fetch and Who keys for use with your digital satellite system
- Compatible with the latest technology

* Your RCA universal remote control is compatible with most brands of infrared remote-controlled components manufactured after 1990. Some well-known brands are shown below. The complete list of brands is found on the Code List inside this package. **The remote already operates most RCA, GE and PROSCAN products without any programming!**

TV	VCR	DVD	CABLE
Abex	Optimus	Aventura	Pentax
Admiral	Optonica	Aiko	Research
Adventura	Orion	Aiwa	Philco
Aiko	Panasonic	Akai	Philips
Akai	Philco	Allegro	Pilot
Allerion	Philips	American High	Pioneer
Amtron	Pilot	Asha	Portland
Anam	Pioneer	Audio	PROSCAN
National	Portland	Dynamics	Protec
AOC	Price Club	Audiovox	Pulsar
Apex	Prima	Beaumont	Quarter
Audiovox	Prism	Bell & Howell	Quartz
Belcor	PROSCAN	Broksonic	Quasar
Bell & Howell	Proton	Calix	RadioShack
Bradford	Pulsar	Candle	RadioShack/
Broksonic	Quasar	Canon	Realistic
Brokwood	RadioShack	Capehart	Radix
Candle	RadioShack/R	Carver	Randex
Celebrity	realistic	CCE	RCA
Centurion	RCA	Citizen	Realistic
Citizen	Runco	Colortyme	Ricoh
Colortyme	Sampo	Colt	Rinco
Concerto	Samsung	Craig	Runco
Cortec/Cony	Sansui	Curtis Mathes	Samsung
Craig	Sanyo	Cybernet	Sanky
Crosley	Scotty	Daewoo	Sansui
Crown	Sears	Daytron	Sanyo
Curtis Mathes	Sharp	DBX	Scott
CXC	Shogun	Dimensia	Sears
Daewoo	Signature	Dynatech	Sharp
Daytron	Simpson	Electrohome	Shintom
Dimensia	Sony	Electrophonic	Shogun
Dumont	Soundesign	Emerson	Singer
Dynatech	Squareview	Fisher	Sony
Electroband	SSS	Fuji	STS
Electrohome	Starlite	Funai	Sylvania
Emerson	Supre-Macy	Garrard	Symphonic
Erivision	Tand	GE	Tandy
Fisher	Tashiko	Go Video	Tatung
Fujitsu	Tatung	Goldstar	Teac
Funai	Technics	Gradiente	Technics
Futuretec	Techwood	Harley	Teknika
GE	Teknika	Harman	TMK
Gilbralter	Telecaption	Kardon	Toshiba
Goldstar	Tera	Harwood	Television
Grund	TMK	Headquarter	Unitech
Hallmark	Toshiba	Hi-Q	Vector
Harvard	Totevision	Hitachi	Research
Hiense	Universal	Instant Replay	Victor
Hitachi	Victor	JCL	Video
IMA	Vidtech	JC Penney	Concepts
Infinity	Viking	Jensen	Videosonic
Janel	Wards	JVC	Wards
JBL	White	Kenwood	XR-1000
JCB	Westinghouse	KLH	Yamaha
JC Penney	Yamaha	Kodak	Zenith
Jensen	Zenith	LG	
JVC		Lloyd's	
Kawasho		Logik	
Kenwood		LXI	
KLH		Magnavox	
Kloss		Magrin	
Novabeam		Marantz	
KTV		Marta	
LG		MEI	
Loewe		Matsushita	
Logik		Memorex	
Luxman		MGA	
LXI		MGN	
Magnavox		Technology	
Majestic		Midland	
Marantz		Mitsubishi	
Megatron		Minolta	
Memorex		Mitsubishi	
MCA		Montgomery	
Midland		Motorola	
Minutz		MTC	
Mitsubishi		Multitech	
Montgomery		NEC	
Ward		Nikko	
Motorola		Noblex	
MTC		Optimus	
Multitech		Optonica	
Multivision		Orion	
NAD		Panasonic	
NEC		Pentax	
Nikko			
NTC			
Otwa			

* NOTE: The SAT key is preprogrammed to control an RCA DIRECTV® digital satellite receiver manufactured before 2004.

Requires two AA batteries (sold separately)

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D770



DATE CODE
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RCA

DBS SATELLITE ACCESSORIES UNIVERSAL REMOTE

• Consolidates up to 5 component remotes!

• Long range RF transmitter for select satellite systems

• Comfortable grip & keypad layout promotes ease of use



TV



CABLE BOX



VCR



DVD PLAYER



DBS SYSTEM



AUDIO SYSTEM

Compatible with most brands of components.

*See compatibility on back

D770

Thank you for purchasing this RCA universal remote control. This product is designed to operate a wide variety of video and audio components. Please retain this guide for future reference.

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This universal remote control is already programmed for most RCA, GE, and PROSCAN branded TVs, VCRs, DBS systems (manufactured before 2003), and DVD players.

Note: For users of RCA and PROSCAN DBS products: Older DBS models require that the INFO or MENU key on this remote be used to make program selections. Use the OK key for making program selections on newer RCA and PROSCAN DBS models. If your satellite receiver was purchased after 2003, programming the remote is required.

Battery Installation

Your universal remote requires 2 new AA alkaline batteries (sold separately).

To install the batteries:

1. On the back of the remote, push down on the cover and slide it off.
2. Insert the batteries, matching the batteries to the (+) and (-) marks inside the battery case.
3. Slide the battery cover back into place.

Note: Reprogramming may be required after batteries are replaced.

Key Description

ANTENNA In TV Mode, lets you switch the source of the video signal from satellite signals to an off-air antenna or cable signal when using the OUT TO TV jack. In VCR Mode, it functions as a TV/VCR input key.

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."

CH + (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 **CH +/-** keys to page up and down a screen at a time. You can also use the **CH +/-** keys on the top of the digital satellite receiver to change the channel.

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

COMPONENT KEYS When programmed, these keys are used to put the remote in a specific mode so that it can control that component.

AUX1 and AUX2 Act as "wildcard" keys. They can be programmed to control another TV, VCR, DVD, satellite receiver, cable box, or an audio component. Follow the direct entry programming instructions on page 7 to program these keys.

Note: The **AUX1** key is pre-programmed with codes to control a Dish Network digital satellite receiver.

DVD Puts the remote in DVD Mode.

SAT Puts the remote in SAT Mode. This key is pre-programmed to control an RCA DIRECTV® digital satellite receiver manufactured before 2004.

Note: This key cannot be reprogrammed. If the **SAT** key doesn't control your receiver, use the **AUX1** key to program the remote to control your satellite receiver if it was purchased after 2003.

TV Puts the remote in TV Mode.

VCR Puts the remote in VCR Mode.

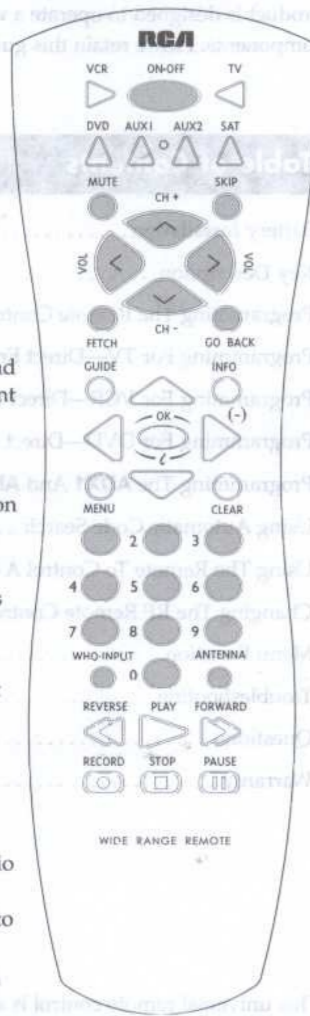
Digit Keys (0-9) Use the digit keys to tune directly to a three-digit satellite channel or non-satellite channel. If a satellite channel number is less than four-digits long, you must press **OK** after entering the channel number. If you are in the menu system, use the digits to highlight and select items. Use **0** to return to the previous menu screen.

FETCH Either brings up the Fetch menu or tells the receiver to take the action you programmed it to take.

GO BACK Moves you back and forth between the last two selected channels. In the menu system, returns you to the previous screen.

GUIDE Brings up the program guide. Subsequent presses of the **GUIDE** key switch between the Detail and Grid guide formats.

INFO Brings up the on-screen channel banner, password challenge, or purchase offer screen. Press again to get program details. In the program guides, press **INFO** to get information about the highlighted program or channel.



Key Description (Continued)

LED indicator light This light turns red at each valid key press. When programming the remote control, it flashes or turns on or off to indicate programming status.

MENU Displays the Main menu. If you are already in the menu system, press **OK** or **MENU** to select a highlighted choice. When you are using the remote control to operate an RCA, GE, or PROSCAN VCR (the remote is in VCR mode), the **MENU** key functions as a **PROGRAM** key.

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

OK Selects a highlighted choice if you are in the menu system. After entering a one-, two-, or three-digit satellite channel number, press to tune to the channel. If you are entering a number other than a satellite channel number (for instance, to tune your VCR to a channel), you do not need to press this key. Press the **OK** key when the Interactive TV icon (i) appears on the screen. Pressing **OK** will display more information and offer the chance to interact in some way with what is displayed on screen.

ON•OFF Turns the component you are controlling on or off. When pressed twice within two seconds, all components that are on will be turned off. This feature only works with most RCA, GE, and PROSCAN products. You can also use the **ON•OFF** key on the top (front panel) of the digital satellite receiver to turn off the receiver.

SKIP This key is not used by the digital satellite receiver. It is functional only with RCA, GE, PROSCAN TVs and VCRs.

Transport Keys (REVERSE, PLAY, FORWARD, RECORD, STOP, PAUSE) When programmed, these keys are used to control an auxiliary component, such as a VCR or DVD player. **Note:** If your VCR is connected, the **RECORD** key can be used to schedule a timed recording when using the Program Guide or to begin recording while watching a program (in VCR Mode).

VOL + (UP) / (DOWN) Adjusts the audio volume of your TV.

WHO•INPUT Press the **WHO** key one or more times to scroll through the user profiles. When you are using the remote control to operate an RCA, GE, or PROSCAN TV (in TV Mode), press the **WHO•INPUT** key one or more times to scroll through the available video input sources.

Programming The Remote Control

The remote is already programmed to control most RCA, GE, and PROSCAN branded components; it may need to be programmed to control other manufacturers' brands.

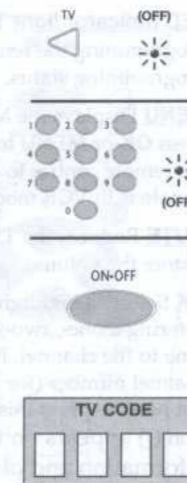
Testing The Remote Control To determine whether the universal remote control needs to be programmed, turn on a component, such as a VCR, point the remote at the VCR, and press the **VCR** key. Then press **ON•OFF** or **CH +** or **CH -** to see if the VCR responds to the remote commands. If it does not respond, the remote needs to be programmed.

There are two ways to program the remote control: Automatic Code Search or Direct Entry.



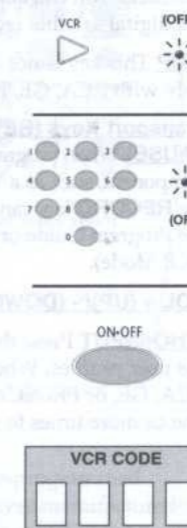
Programming For TV—Direct Entry Method

1. Manually turn on the TV.
2. Locate the enclosed TV Code List. Find your brand of TV.
3. Press and hold the **TV** key.
4. Enter a code from the code list.
5. Release the **TV** key, and then press **ON•OFF** to see if the TV responds to the remote control commands. If it doesn't, try pressing the **TV** key and then **ON•OFF** 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 control commands.
7. Enter your code here for easy reference.



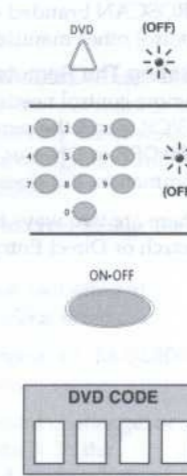
Programming For VCR—Direct Entry Method

1. Manually turn on the VCR.
2. Locate the enclosed VCR Code List. Find your brand of VCR.
3. Press and hold the **VCR** key.
4. Enter a code from the code list.
5. Release the **VCR** key, then press **ON•OFF** to see if the VCR responds to the remote control commands. If it doesn't, try pressing the **VCR** key and then **ON•OFF** 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 control commands.
7. Enter your code here for easy reference.



Programming For DVD—Direct Entry Method

1. Manually turn on the DVD player.
2. Locate the enclosed DVD Code List. Find your brand of DVD player.
3. Press and hold the **DVD** key.
4. Enter a code from the code list.
5. Release the **DVD** key, and then press **ON•OFF** to see if the DVD responds to the remote control commands. If it doesn't, try pressing the **DVD** key and then **ON•OFF** again.
6. If you get no response, repeat these steps using the next code listed for your brand, until the DVD responds to the remote control commands.
7. Enter your code here for easy reference.



Programming The AUX1 And AUX2 Keys

You can assign any one of the following components to the **AUX1** or **AUX2** keys:

A second TV, VCR, DVD, satellite system, cable box, or an audio component.

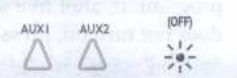
Note: The **AUX1** key is pre-programmed with codes to control Dish Network digital satellite receivers. The **SAT** key is pre-programmed with codes to control RCA DIRECTV digital satellite receivers. If you wish to control a second RCA DIRECTV digital satellite receiver, program the **AUX1** or **AUX2** key with satellite code 5001.

Then refer to your RCA DIRECTV satellite receiver manual for instructions on remote control setup.

1. Manually turn on the component you wish to control.

Find the four-digit code for the component you wish to program in the code list.

2. Press and hold the **AUX1** or **AUX2** key. While holding the **AUX1** or **AUX2** key, press the first number of the component code. If the first number is valid, the LED will turn off.



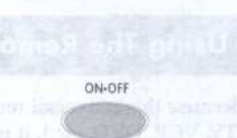
3. Enter the code using the **DIGIT (0-9)** keys.

After your full code is entered, the LED light will turn on to verify that the code entered is valid. Release the component key. The LED will go off.



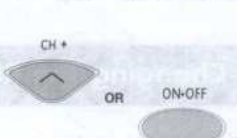
Note: If the code is invalid, the LED light will flash four times and the remote will revert back to normal operation maintaining the current code.

4. Aim the remote at the component you wish to control and press the **ON•OFF** key. The component should turn off.

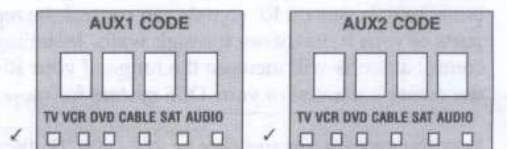


Note: If the component you have programmed does not respond, try all the codes for your brand. If the codes do not work, or your brand is not listed, try the Automatic Code Search method on pages 8.

5. With your component on, press **CH+ (CHANNEL UP)** or the **ON•OFF** key. If the component responds, no further programming is required.



6. Enter your code here and then check the type of component you programmed for easy reference.



Using Automatic Code Search

The following instructions can be used to program the remote to control the TV, VCR or DVD. If you want to exit the automatic code search without programming any of your components, press the **CLEAR** key until the LED (red light) turns off.

1. Turn on the component you want to control (TV, VCR or DVD).
2. Press and hold the component key you want to program. While holding the component key, press and hold **ON•OFF** until the LED on the remote control turns on, then release both keys.

Note: The **AUX1** and **AUX2** keys can only be programmed using Direct Entry Mode. See page 7 for details.

3. Point the remote at the component, press and release **PLAY**, then wait five seconds or until the LED stops flashing.

At this point the remote control is searching for the correct code to program. If, after five seconds, the component you want to control does not turn off, press and release **PLAY** again to tell the remote to search the next set of codes.

Continue pressing and releasing **PLAY** until the component turns off or you have searched through all of the codes. There are 20 sets of codes. If the component does not turn off after pressing **PLAY** 20 times, then the remote cannot control that particular component.

If the component you want to control *does* turn off:

1. Press and release **REVERSE**, then wait two seconds. Repeat this step until the component turns back on.
2. To finish, press and hold **STOP** until the LED on the remote control turns off.

Using The Remote To Control A Component

Because this universal remote can control several different components (TV, VCR, DVD, etc.), it uses operational modes triggered by the component keys. For example, if you want the remote to control the TV, you would press the **TV** key to put the remote into TV Mode. Then, if you want to play a videotape, press **VCR** then **PLAY** (pointing the remote at the VCR).

Changing The RF Remote Control Code

Your remote control is equipped with RF functionality. This means that the remote can control the digital satellite receiver using both IR (infrared) signals and RF (radio frequency) signals if it is equipped with an RF receiver. IR signals require line-of-sight to the receiver's front panel remote sensor. RF signals can control the receiver from other parts of your house, even through walls. Installing your RF remote control antenna will increase the range of your RF remote signal. See the owner's manual of your DBS system for more details.

Note: This feature is only applicable for RCA DIRECTV digital satellite receivers.

If you are experiencing interference from other RF components, you may need to change the RF remote control code. To change the code first in your satellite receiver, do the following:

Changing The RF Remote Control Code (Continued)

1. Select Options in the Main menu.
2. Select System Options.
3. Select RF Remote.
4. If you normally use the **SAT** key on your remote to control your RCA satellite receiver, choose a number between 000 and 255. Follow the on-screen instructions to enter this number as your RF remote control code. However, if you use the **AUX1** or **AUX2** key, choose a number between 000 and 099.

Then, to change the code on your remote to match the satellite receiver, perform the following:

1. Press and hold the **SAT** key, **AUX1**, or **AUX2** key (depending on which key you use to control your satellite receiver).
2. Then use the Digit keys to enter the same RF remote control code (000-255 for **SAT**), or (000-099 for **AUX1** or **AUX2**) on your remote control.

Menu Function

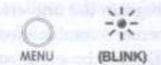
The Menu function is used to make changes in the selected settings, such as setting color, channels, timer, etc. The **MENU** key displays TV, DVD player, and DBS menu screens on your TV. Each Menu function will vary from brand to brand.

ENTERING THE MENU MODE

1. Push the component key on the remote for the desired menu screen.



2. Push the **MENU** key. This allows you to view the menu of the chosen component. The menu should now be visible on your television.



Note: With some brands you may have to press the **GUIDE** or **INFO** key for the on-screen menu.

3. While in MENU Mode, these keys will function as follows:

Navigation **LEFT/RIGHT** keys will operate as cursor right and left.

Navigation **UP/DOWN** keys will operate as cursor up and down.

MENU or **OK** key applies the highlighted menu item.

Not all functions in all models and brands of equipment may be fully supported.

EXITING THE MENU MODE

To exit the MENU Mode and clear the screen on your TV, push the **CLEAR** key.



Troubleshooting

Problem: The remote can't be programmed to operate your component.

- You may be too far away from the component or at a wrong angle. This remote uses IR (infrared) technology to communicate with components. The remote sends the code and the component's IR sensor reads the code. Therefore, there must be an unobstructed path between the remote and the IR sensor on the component. Move closer and make sure you point the remote at the component (VCR when programming the **VCR** key; DVD when programming the **DVD** key; TV when programming the **TV** key; satellite receiver when programming the **SAT** key).
- If you've entered all of the codes for your brand that are in the enclosed Code Lists and followed the instructions, try the Automatic Code Search method (See Using Automatic Code Search on page 8).
- You must put the remote in the correct mode by pressing the corresponding component key (**TV**, **VCR**, **DVD**, **SAT**, **AUX1**, **AUX2**) so the remote knows which component you want to operate.
- To program the universal remote to operate a combination unit (TV/VCR or TV/DVD), first try the VCR or DVD codes for your brand. Some units, however, require that you program both the TV (using the TV codes) and the VCR or DVD (using the VCR or DVD codes) for full operation.
- To program the universal remote to operate a combination unit (VCR/DVD), first program your VCR using the **VCR** key and then program your DVD using the **DVD** key.

Problem: The indicator light does not light when you press a key.

- You must put the remote in the correct mode by pressing the corresponding component key (**TV**, **VCR**, **DVD**, **SAT**, **AUX1**, **AUX2**) so the remote knows which component you want to operate.
- You may have pressed an invalid key for the mode the remote is in (e.g., the **RECORD** key only works in VCR Mode).
- Make sure the batteries are properly installed. (See Battery Installation on page 3).
- Replace the batteries with two new AA batteries. Reprogramming may be required.

Problem: The remote does not operate your component.

- You must put the remote in the correct mode by pressing the corresponding component key (**TV**, **VCR**, **DVD**, **SAT**, **AUX1**, **AUX2**) so the remote knows which component you want to operate.
- Remove any obstacles between the remote and the component. Make sure to aim the remote at the IR sensor on the component.
- Make sure the batteries are properly installed. (See Battery Installation on page 3).
- Replace the batteries with two new AA batteries. Reprogramming may be required.
- Reset the remote. Remove the batteries. Then press and hold the number **1** key on the remote for several seconds to reset the microprocessor inside the remote. Release the number **1** key, reinstall the batteries, and try the remote again. Reprogramming will be required.

Problem: The remote is not performing commands properly.

- You must put the remote in the correct mode by pressing the corresponding component key (**TV**, **VCR**, **DVD**, **SAT**, **AUX1**, **AUX2**) so the remote knows which component you want to operate.
- Make sure the component is "ready" (e.g., DVD player has disc loaded; VCR has tape loaded, etc.).
- You may have pressed an invalid key for the mode the remote is in (e.g., the **RECORD** key only works in VCR Mode).
- If you are trying to turn on an RCA, GE or PROSCAN component, press the component key (**TV**, **VCR**, **DVD**, **SAT**, **AUX1**, **AUX2**) instead of the **ON-OFF** key.
- If you're trying to change channels, try pressing the **OK** key after entering the channel number as this is a requirement of certain models and brands.
- There is a possibility that a programmed code may only be able to control some of your component features (e.g., only turns a component on and off). Follow the steps provided for programming the remote (See Programming sections on pages 5-7). If the component can be turned on and off, make sure you press the **CH+/CH-** key to see if the component responds. If not, try the next code from the list.

Troubleshooting (Continued)

Problem: The VCR won't record.

- As a safety feature, you must press the **RECORD** key twice to begin recording.
- Make sure the tape is properly loaded in the VCR.
- Make sure the tape is not write-protected. If the safety tab is removed, the tape is write-protected and you cannot record onto that tape.

Problem: The remote will not change channels.

- You must put the remote in the correct mode by pressing the corresponding component key (**TV**, **VCR**, **DVD**, **SAT**, **AUX1**, **AUX2**) so the remote knows which component you want to operate.
- Press the **OK** key after you enter a channel number.

Problem: The component's menu doesn't appear on the TV screen.

- The TV must be tuned to the Video Input that matches the manner in which you connected the component to the TV.
For example, if you connected your DVD player to your TV by connecting audio/video cables (usually color-coded yellow, red and white) to the TV's Input 1 jack, you must tune the TV to its Video 1 Input channel. Remember, different manufacturers label these jacks differently. Consult the instruction manual that came with the TV for more information.
- You must put the remote in the correct mode by pressing the corresponding component key (**TV**, **VCR**, **DVD**, **SAT**, **AUX1**, **AUX2**) so the remote knows which component you want to operate.
- Menu access isn't supported for all brands. If that's the case, you need to use your original remote control to access menu functions for these components.

Questions

Please visit www.rca.com

Limited Lifetime Warranty

Our company (in the U.S., THOMSON INC. / In Canada, Thomson multimedia Ltd.) will replace this product, regardless of how long you, the original purchaser, own it if found to be defective in materials or workmanship. For a prompt, no charge replacement of equivalent product, return the defective product postage prepaid to the appropriate address.

In the US:
Product Exchange Center
11721 Alameda Avenue
Socorro TX 79927

In Canada:
Thomson multimedia Ltd.
6200 Edwards Boulevard
Mississauga, Ontario
Canada L5T 2V7

This replacement is the company's sole obligation under this warranty. THOMSON INC. / Thomson multimedia Ltd. will not be responsible for any incidental or consequential damages or for any loss arising in connection with the use or inability to use this product. Some states/provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty excludes defects or damage due to misuse, abuse, or neglect. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state/province to province.

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.**

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, 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 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 needed.**
- Consult the dealer or an experienced radio/TV technician for help.**

The term " IC " before the radio certification number only signifies that Industry Canada technical specification were met.