

Universal Learning Remote with TOUCHSCREEN User's Guide



# Table of Contents

Introduction
Battery Information
Battery Installation
Battery Saver
Code Saver
Power-on Default
Product Diagram4
LCD Touchscreen
LED Indicator Light4
Setup Routine and Procedures5
Device Control Screens
Code Entry
Library Code Entry
Code Search9
Code Autosearch
Code Identification11
Key Label Options
Learned Key Reference Pages14
Learn Commands
Learning Tips
Code Learning
Learn Commands
Clear All Stored Learned Commands Under A Mode18
Master Clear
Master Clear
Master Clear18Smart Macro Key Operations19Program A Smart Macro19
Master Clear
Master Clear       18         Smart Macro Key Operations       19         Program A Smart Macro       19         Delete A Smart Macro       21         Sleep Timer       21
Master Clear18Smart Macro Key Operations19Program A Smart Macro19Delete A Smart Macro21
Master Clear       18         Smart Macro Key Operations       19         Program A Smart Macro       19         Delete A Smart Macro       21         Sleep Timer       21         Method 1 (From Normal Operation)       21         Method 2 (From Setup Routine)       22
Master Clear       18         Smart Macro Key Operations       19         Program A Smart Macro       19         Delete A Smart Macro       21         Sleep Timer       21         Method 1 (From Normal Operation)       21         Method 2 (From Setup Routine)       22
Master Clear       18         Smart Macro Key Operations       19         Program A Smart Macro       19         Delete A Smart Macro       21         Sleep Timer       21         Method 1 (From Normal Operation)       21
Master Clear       18         Smart Macro Key Operations       19         Program A Smart Macro       19         Delete A Smart Macro       21         Sleep Timer       21         Method 1 (From Normal Operation)       21         Method 2 (From Setup Routine)       22         TV or CD/Audio Volume Punch-through       22         VCR Punch-through       23         Record Key       23
Master Clear       18         Smart Macro Key Operations       19         Program A Smart Macro       19         Delete A Smart Macro       21         Sleep Timer       21         Method 1 (From Normal Operation)       21         Method 2 (From Setup Routine)       22         TV or CD/Audio Volume Punch-through       22         VCR Punch-through       23
Master Clear       18         Smart Macro Key Operations       19         Program A Smart Macro       19         Delete A Smart Macro       21         Sleep Timer       21         Method 1 (From Normal Operation)       21         Method 2 (From Setup Routine)       22         TV or CD/Audio Volume Punch-through       22         VCR Punch-through       23         Record Key       23
Master Clear       18         Smart Macro Key Operations       19         Program A Smart Macro       19         Delete A Smart Macro       21         Sleep Timer       21         Method 1 (From Normal Operation)       21         Method 2 (From Setup Routine)       22         TV or CD/Audio Volume Punch-through       22         VCR Punch-through       23         Record Key       23         Additional Features       23         Keypress Beep Feature       23         LCD Touchscreen Display Time       23
Master Clear       18         Smart Macro Key Operations       19         Program A Smart Macro       19         Delete A Smart Macro       21         Sleep Timer       21         Method 1 (From Normal Operation)       21         Method 2 (From Setup Routine)       22         TV or CD/Audio Volume Punch-through       22         VCR Punch-through       23         Record Key       23         Additional Features       23         Keypress Beep Feature       23         LCD Touchscreen Display Time       23
Master Clear       18         Smart Macro Key Operations       19         Program A Smart Macro       19         Delete A Smart Macro       21         Sleep Timer       21         Method 1 (From Normal Operation)       21         Method 2 (From Setup Routine)       22         TV or CD/Audio Volume Punch-through       22         VCR Punch-through       23         Record Key       23         Additional Features       23         Keypress Beep Feature       23         LCD Touchscreen Display Time       23         Backlighting       24         Master Reset       24
Master Clear       18         Smart Macro Key Operations       19         Program A Smart Macro       19         Delete A Smart Macro       21         Sleep Timer       21         Method 1 (From Normal Operation)       21         Method 2 (From Setup Routine)       22         TV or CD/Audio Volume Punch-through       22         VCR Punch-through       23         Record Key       23         Additional Features       23         Keypress Beep Feature       23         LCD Touchscreen Display Time       23         Backlighting       24         Master Reset       24
Master Clear       18         Smart Macro Key Operations       19         Program A Smart Macro       19         Delete A Smart Macro       21         Sleep Timer       21         Method 1 (From Normal Operation)       21         Method 2 (From Setup Routine)       22         TV or CD/Audio Volume Punch-through       22         VCR Punch-through       23         Record Key       23         Additional Features       23         Keypress Beep Feature       23         LCD Touchscreen Display Time       23         Backlighting       24
Master Clear       18         Smart Macro Key Operations       19         Program A Smart Macro       19         Delete A Smart Macro       21         Sleep Timer       21         Method 1 (From Normal Operation)       21         Method 2 (From Setup Routine)       22         TV or CD/Audio Volume Punch-through       23         Record Key       23         Additional Features       23         Keypress Beep Feature       23         LCD Touchscreen Display Time       23         Backlighting       24         Master Reset       24         RCA All Power Off Feature       24
Master Clear       18         Smart Macro Key Operations       19         Program A Smart Macro       19         Delete A Smart Macro       21         Sleep Timer       21         Method 1 (From Normal Operation)       21         Method 2 (From Setup Routine)       22         TV or CD/Audio Volume Punch-through       22         VCR Punch-through       23         Record Key       23         Additional Features       23         Keypress Beep Feature       23         LCD Touchscreen Display Time       23         Backlighting       24         Master Reset       24         RCA All Power Off Feature       24         Glossary of Terms       25
Master Clear       18         Smart Macro Key Operations       19         Program A Smart Macro       19         Delete A Smart Macro       21         Sleep Timer       21         Method 1 (From Normal Operation)       21         Method 2 (From Setup Routine)       22         TV or CD/Audio Volume Punch-through       23         Record Key       23         Additional Features       23         Keypress Beep Feature       23         LCD Touchscreen Display Time       23         Backlighting       24         Master Reset       24         RCA All Power Off Feature       24         Glossary of Terms       25         Troubleshooting       28



# Universal Touchscreen Learning Remote

Congratulations on your purchase of the RCU900RF by RCA. The RCU900RF is one of the most sophisticated, yet easy to use, remote control units available today. With the RCU900RF, juggling multiple remote controls is a thing of the past! Your RCU900RF controls up to eight devices, including the most popular brands of TV, VCR, DVD, SAT/CBL, CD and audio equipment. The RCU900RF has the ability to learn commands from your existing remotes, and the Smart Macro feature allows multiple commands to be executed with a single keypress. The RCU900RF is easy to use, easy to program, and it gives you total control—at the touch of your fingertips!

# **Battery Information**

Your RCU900RF Universal Learning Remote with Touchscreen requires four AA alkaline batteries (sold separately).

# **Battery Installation**

To install the batteries:

- Turn the to the bottom side, pull on the tab and lift off the cover.
- Insert the batteries, matching the batteries to the (+) and (-) marks inside the battery compartment.
- 3. Slide the battery cover back into place.

# **Battery Saver**

Your RCU900RF saves battery power by automatically turning off if any button is pressed for more than 30 seconds. This saves your batteries should your remote get stuck in a place where the buttons remain depressed, such as under a book or between the sofa cushions.

### Code Saver

With the RCU900RF, you don't have to worry about losing programmed information when you change batteries. All programmed parameters are retained indefinitely in the event of battery replacement.

# **Power-on Default**

When you replace batteries, your RCU900RF remote always powers on in the TV Mode. If your TV, VCR and satellite receiver are RCA, ProScan or GE brands, you may not even need to set up the RCU900RF to control them. In these instances, the remote should work as soon as the batteries are installed.



# **LCD Touchscreen**

The LCD (Liquid Crystal Display) touchscreen on your RCU900RF acts as a "virtual keypad." This touchscreen makes it easy to program and use your remote with many devices. Once you select a device key, you put the remote in that device mode and it will remain in that mode until you press another device key. When you put the remote in a specific device mode, the menu that is activated on the touchscreen will be the menu for that mode. For example, if you put the remote in TV Mode, the menu you see on the touchscreen is for the TV Mode. For each mode, the LCD touchscreen includes two control screens, and you can easily switch between the two by pressing the **SCREEN** key at the upper right-hand corner of the LCD touchscreen. Each LCD touchscreen has an 18-position segmented keypad.

The LCD touchscreen remains blank when the remote is not in use. The LCD touchscreen turns on automatically when you press the **SETUP** key, any device key or the **LIGHT** key on the rubber keypad, or any LCD touchscreen key. The remaining rubber keys do not activate the LCD touchscreen.

# **LED Indicator Light**

The LED (Light Emitting Diode) indicator light, located at the upper right-hand side of the RCU900RF, lights up whenever a rubber key or any LCD touchscreen key is pressed. The LED indicator flashes and beeps three times (approximately two seconds) to indicate any error condition.

# Setup Routine and Procedures



The **SETUP** key is located towards the middle of the RCU900RF unit, on the right-hand side of the rubber keypad. The **SETUP** key is used to walk you through the steps in setting up the remote. To enter the Setup Mode, press and hold the **SETUP** key until the LED indicator light remains on. At that time, the Main Setup Screen appears. Setup is used for Library Code Entry, Code Search, Code Identification and other functions.

During a Setup function, if no button is pressed for 60 seconds, the unit automatically exits from the Setup process. The LED indicator light flashes an error in this instance, and any operation that is not completed when the time-out occurs is not programmed.

During the Setup function, if you press any key not shown on the touchscreen or a key not expected as part of a Setup routine, the RCU900RF ignores that keypress. Pressing the **LCD CLEAR** key in a Setup routine returns the touchscreen to the Main Setup Screen. When you press the **CLEAR** key, any changes made up to that point are discarded. Also, where specifically indicated, pressing the **SETUP** key in a Setup routine discards any changes and returns the remote to the Main Setup Screen.

To exit the Setup function and return to normal operation, press the **CLEAR** key on the Main Setup Screen.

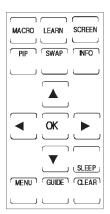
# **Device Control Screens**

Your RCU900RF displays different control screens for each device. There are two screens needed to control each device. You can easily switch between these two screens by simply pressing the **LCD SCREEN** key at the top right of the touchscreen.

### TV Screen 1



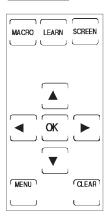
### TV Screen 2



**DVD Screen 1** 



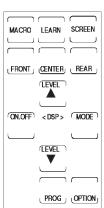
**DVD Screen 2** 



AUDIO Screen 1



# AUDIO Screen 2



# VCR Screen 1 VCR Screen 2 MACRO LEARN **SCREEN** MACRO LEARN SCREEN INPUT NFO 2 3 5 OK. 6 7 8 9 0 CAB/SAT Screen 1 CAB/SAT Screen 2 MACRO LEARN SCREEN SCREEN MACRO LEARN INPLIT NFO 2 3 5 6

# **Code Entry**

8

0

9

In order for the RCU900RF to control your devices (TV, VCR, DVD, etc.), you must program it with the library code for each device. This enables the RCU900RF remote to control your device with the proper commands. If your TV, VCR, DVD, or satellite receiver is an RCA, ProScan or GE brand, the RCU900RF may not need any programming to control them. To program the remote with the codes for your devices, you can use one of three methods: Library Code Entry, Code Search or Code Autosearch.

MENU GUIDE CLEAR

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# Library Code Entry

You can enter codes in your RCU900RF from the Code List using the **SETUP** key on the rubber keypad. (**See** the Code List of the most popular brands on page 29.) When you enter a valid code for any given mode (e.g., when you enter a code for a TV), the Default Key Label Screen is used and any previously Learned functions for that mode are deleted. The mode is reset to its power-on default state. However, Macro settings remain unchanged and now include the new code just entered.

# **Library Code Entry (continued)**

To enter a code directly from the Code List, follow these steps:

- 1. Manually turn on the device to be controlled (TV, VCR, DVD, etc.).
- Press and hold the SETUP key on the rubber keypad until the LED indicator light remains on and the touchscreen shows the Main Setup Screen. This process takes approximately 2-3 seconds.
- Release the SETUP key.
- Press and release the LCD CODE key. The LED indicator light blinks off once to indicate acceptance of the keypress.
- 5. The touchscreen now shows the Device Setup Screen. Press and release the device key on the rubber keypad for the device whose code you want to enter (TV, VCR, SAT/CBL, etc.). The LED indicator light blinks once to indicate acceptance of the keypress.
- For AUX1 or AUX2, press the AUX device key, followed by the desired device key to be programmed under AUX (TV, VCR, SAT/CBL, etc.).
- The touchscreen now shows the Code Setup Screen. Find the three-digit code for your device brand from the Code List at the back of the manual. If your brand has more than one code listed, begin with the first code. Enter the three-digit code from the Code List. When a valid code from the list is entered, the LED indicator light blinks off after the last digit is entered. For an invalid code, the LED indicator light flashes rapidly and beeps for two seconds before going off. In both cases, the touchscreen returns to the Main Setup Screen.
- Before the code can be tested on the chosen device, you must exit back to normal operation by pressing the CLEAR key on the Main Setup Screen.
- 9. With the device on, aim the RCU900RF at the device and press the ON•OFF or the CH+ key on the rubber keypad. If you have entered the correct number for your device, it will respond to the ON•OFF or CH+ key. If the device responds, no further programming is required.
- 10. If your device does not respond, try the next code in the list for your brand by repeating the procedure starting at step 2. If no other codes exist for your brand, try the Code Search or Code Autosearch methods.

# Main Setup Screen



### Device Setup Screen

SETUP		
DEVICE	KEY?	
		CLEAR

### Code Setup Screen

SETUP	CODE	
	KEY?	
	$\overline{}$	
	SEARCH	
	$\cup$	
$\overline{}$		$\overline{}$
1	2	3
	$\Box$	_
$\overline{}$	$\overline{}$	$\overline{}$
4	5	6
	-	
$\overline{}$	$\overline{}$	$\overline{}$
7	8	9
	-	
		CLEAR)
	0	
	$\Box$	ر

# **Code Search**

If the device you wish to control does not respond to any of the codes you have entered using the Library Code Entry, you can search the entire code library for a particular device that might not be listed in the Code List or might be listed under a different brand.

When you enter a valid code for any given mode (e.g., when you enter a code for a TV), the default key labels are displayed on the touchscreen and any previously Learned functions for that mode are deleted. The mode is reset to its power-on default state. However, Macro settings remain unchanged and now include the new code just entered.

To search for a specific code in the Code List, follow these steps:

- 1. Manually turn on the device to be controlled (TV, VCR, DVD, etc.).
- Press and hold the SETUP key on the rubber keypad until the LED indicator light remains on and the touchscreen shows the Main Setup Screen. This process takes approximately 2-3 seconds.
- 3. Release the **SETUP** key.
- Press and release the LCD CODE key. The LED indicator light blinks off once to indicate acceptance of the keypress.
- 5. The touchscreen now shows the Device Setup Screen. Press and release the device key on the rubber keypad for the device whose code you want to enter (TV, VCR, SAT, etc.). The LED indicator light blinks once to indicate acceptance of the keypress.
- For AUX1 or AUX2, press the AUX device key. Select the desired device key to be programmed under AUX (TV, VCR, SAT/CBL, etc.).
- The touchscreen now shows the Code Setup Screen. Press and release the LCD SEARCH key.
- The touchscreen shows the Search Setup Screen. Press the ON•OFF key on the rubber keypad repeatedly, until the device to be controlled responds to the command and turns off.

Note: The Code Search starts from the currently stored code under that mode. For example, if the device code list contains 100 codes and the currently stored code is 050, the Code Search starts from 051 and continues to 100 before looping back to 000 and finishing at 050. This speeds up the process of finding the correct code for

Main Setup Screen



Device Setup Screen



Code Setup Screen



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# Code Search (continued)

your device, since you may discover that some codes can turn on and off your device but are not able to control its other functions. This process allows you to bypass codes you've already tried.

Note: If your device responds and you accidentally overshoot that code by pressing the ON\*OFF key again, press the CH\* key or DOWN ARROW key to backtrack through the code library. You can change the direction to forward once again by pressing the ON\*OFF, CH+, UP ARROW, or LCD PLAY keys.

9. Once the device to be controlled responds to the commands, press and release the **LCD OK** key to install the code. The touchscreen returns to the Main Setup Screen. The Code Search entry is now complete.

# **Code Autosearch**

Your RCU900RF has the ability to automatically scroll through the entire code library by using the Autosearch feature.

To start a Code Autosearch, follow these steps:

- Manually turn on the device to be controlled (TV, VCR, DVD, etc.).
- Press and hold the SETUP key on the rubber keypad until the LED indicator light remains on and the touchscreen shows the Main Setup Screen. This process takes approximately 2-3 seconds.
- 3. Release the **SETUP** key.
- Press and release the LCD CODE key. The LED indicator light blinks off once to indicate acceptance of the keypress.
- 5. The touchscreen now shows the Device Setup Screen. Press and release the device key on the rubber keypad for the device whose code you want to enter (TV, VCR, SAT/CBL, etc.). The LED indicator light blinks once to indicate acceptance of the keypress.
- For AUX1 or AUX2, press the AUX device key. Select the desired device key to be programmed under AUX (TV, VCR, SAT/CBL, etc.).
- The LCD touchscreen shows the Code Setup Screen. Press and release the LCD SEARCH key.
- 8. The LCD touchscreen shows the Search Setup Screen. Press the ON•OFF key on the rubber keypad just once. If you do not press any other keys, the Autosearch feature automatically starts in six seconds.

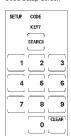




Device Setup Screen



Code Setup Screen



- The Autosearch sends the next code in the list every three seconds. Note: The Autosearch can take a significant amount of time, since there are many codes in the list.
- 10. To speed up the Autosearch, you can manually override the process and temporarily speed it up by pressing the normal search keys (CH+, CH-, ON•OFF, PLAY, LCD UP, and LCD **DOWN** keys) in both forward and reverse directions.

11. If your device responds to the command,

- and the RCU900RF sends the next code before you have a chance to press the LCD OK key, you can backtrack through the code library by pressing CH- or the DOWN ARROW. You can change the direction to forward once again by pressing the ON/OFF, CH+, UP ARROW, or LCD PLAY keys. Once the device to be controlled responds
- to the commands, press and release the LCD OK key to install the code.
- The touchscreen returns to the Main Setup Screen. The Code Search entry is now complete.

# Code Identification

Code Identification allows you to find out what codes are programmed in the remote under a given mode (TV, VCR, DVD, etc.).

To find out the currently programmed code, follow these steps:

- Press and hold the SETUP key on the rubber keypad until the LED indicator light remains on and the touchscreen shows the Main Setup Screen. This process takes approximately 2-3 seconds.
- 2. Release the SETUP key.
- Press and release the LCD CODE key. The LED indicator light blinks off once to indicate acceptance of the keypress.
- The touchscreen now shows Device Setup Screen. Press and release the device key on the rubber keypad for the device whose code you want to identify (TV, VCR, SAT/CBL, etc.). The LED indicator light blinks once to indicate acceptance of the keypress.
- The touchscreen now shows the Code Setup Screen. Press and release the **SETUP** key. The LED indicator light blinks off once to indicate acceptance of the keypress.
- 6. The touchscreen now shows the Code ID Setup Screen (initially blank except for LCD SETUP, INFO and **CODE** keys). The touchscreen then shows the code, using the LCD digits. The digits in the three-digit

code are shown in sequence for





Device Setup Screen



Code Setup Screen



# Code Identification (continued)

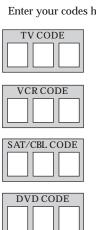
one second each, followed by a 0.5 second gap where no digits are shown. The LED indicator light blinks off for each digit display. The sequence is completed once and then the touchscreen returns to the Main Setup Screen.

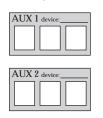
 The Code Identification process is now complete. You can write this Code ID in the Code ID Chart for easy reference.

# Code ID Setup Screen SETUP CODE INFO Bilink Back Digits

# **Code Identification Chart**

Enter your codes here for easy reference:







# **Key Label Options**

With the RCU900RF, you have the ability to customize individual keys and key label segments to meet your needs. It is recommended that the Key Label Options feature only be used after you have finished programming all your devices. This feature lets you select preset key options to be shown on the touchscreen. You can change any LCD panel key except the SCREEN, LEARN and MACRO keys. Any one of the available label options can be chosen for each key. You can also choose to show only the key frame or hide the key completely.

To choose preset key label options for LCD keys, follow these steps:

- Press and hold the SETUP key on the rubber keypad until the LED indicator light remains on and the touchscreen shows the Main Setup Screen. This process takes approximately 2-3 seconds.
- 2. Release the **SETUP** key.
- Press and release the LCD SCREEN key. The LED indicator light blinks off once to indicate acceptance of the keypress.



4. The touchscreen now shows the Device Setup Screen. Press and release the device key on the rubber keypad for the device whose keys you want to customize (TV, VCR, SAT/CBL, etc.). The LED indicator light blinks once to indicate acceptance of the keypress.

 The touchscreen now shows the Key Label Screen. This screen shows the current screen labels for the device you have chosen (TV, VCR, SAT/CBL, etc.). The LCD SETUP and SCREEN labels are also shown.

Press any of the LCD panel keys within the current mode to select the individual key label desired. Use the SCREEN key to switch back and forth between the two screens for that mode.

Note: The LCD SLEEP, MACRO and LEARN keys are displayed but cannot be edited as part of the Key Label Options routine.

7. The LED indicator light blinks off to indicate acceptance of the keypress.

Note: If, at any time during Key Label editing, you wish to reset the current device keys to their default settings, press and hold the current device key for three seconds. Resetting any device key to its power-on default setting results in an automatic save for that mode. This will not affect your program codes or any Learned commands.

To save your new label selections for the current mode, press another device key or the SETUP key. If you press another device key, the current mode screens are saved and the touchscreen shows the screen for the new mode chosen. For example, if you have been customizing keys for the TV Mode, pressing the VCR key on the rubber keypad results in saving the TV key labels and placing the unit in the VCR Mode. If the SETUP key is pressed, you exit the Key Label Options process and the touchscreen returns to Main Setup Screen.

9. The relabeling of keys is now complete.

SETUP DENICE KEY7

# Learned Key Reference Pages

IMPORTANT NOTE: You cannot learn any commands under the **LEARN, MACRO, SCREEN, SETUP** or any Device key.

Device:



Device:



Device:



Device:



# Learn Commands

# **Learning Tips**

Before transferring commands from your original remote to the RCU900RF, check out these useful tips on Learning.

- Make sure you are using fresh batteries in both the RCU900RF and the original remote.
- It is recommended that a Master Clear be done before attempting any Learning. This clears all Learned commands for all device modes. (See section on Master Clear).
- Point the top of the original remote at the base of the RCU900RF so the IR LED on the original remote is in line with the RCU900RF Learning sensor, located at the bottom of the remote.
- 4 The distance between the two remotes should be approximately two inches.
- 5. To ensure that your units are compatible and to increase your familiarity with the unit, you may wish to experiment by learning two or three keys initially. Then, carry out a Master Clear before learning all the desired functions from your original remote.





- Incandescent or low-energy light can cause interference with the IR transmissions. When using the Learning function, keep the remotes at least three feet away from such light sources.
- When learning a key, do not release the key on your original remote until the LED indicator light remains on, which takes 2-3 seconds.
- No commands may be learned under the LCD LEARN, MACRO, SCREEN or SETUP keys or the device keys on the rubber keypad (such as TV, VCR, DVD, SAT/CBL, AUDIO keys).
- If there is a problem with the Learning process, the LED indicator light flashes for two seconds but still remains in Learning Mode.
- 10. All Learned keys are saved automatically.

# Code Learning

Codes from the Code List include basic functionality for each device they control. Once you have programmed in the library code for your specific device, you can customize the RCU900RF touchscreen to include certain functions from your original remote that were not embedded in the preset code.

Your RCU900RF has the ability to learn and store commands from your original remotes under the mode of your choice. The RCU900RF can store up to 40 key commands for each original remote. Only one original remote can be stored under any one mode (i.e., the RCU900RF can learn the commands for one TV remote, one VCR remote, one DVD remote, etc.).

Once you have set your Key Label Options and have taught your RCU900RF any additional commands from the original remotes, use the chart on the previous page to enter your customized options for each mode.

# **Learn Commands**

Now you're ready to have your RCU900RF learn the commands from your existing remotes. All Learned keys are saved automatically. Remember, only one original remote can be stored under any one mode. The RCU900RF can learn the commands for one TV remote, one VCR remote, one DVD remote, etc.

- 1. Point the top of the original remote at the base of the RCU900RF so the IR LED on the original remote is in line with the RCU900RF Learning sensor, located at the bottom of the remote.
- 2. Press and hold the SETUP key on the rubber keypad until the LED indicator light remains on and the touchscreen shows the Main Setup Screen. This process takes approximately 2-3 seconds.
- 3. Release the **SETUP** key.
- Press and release the LCD LEARN **KEY?.** The LED indicator light blinks once to indicate acceptance of the keypress.
- 5. The touchscreen now shows the Device Setup Screen. Press and release the device key on the rubber keypad that corresponds to the remote you want the RCU900RF to learn (TV, VCR, SAT/CBL, etc.). The LED indicator light blinks once to indicate acceptance of the keypress.
- 6. The touchscreen now shows the Learn Setup Screen 1, which displays the current screen keys for the mode you have chosen. The LCD SETUP and **LEARN** keys are also shown.
- Press and release the key on the RCU900RF to be taught. (Remember: You can switch between the screens displayed by pressing the LCD SCREEN key.) The LED indicator light blinks to indicate acceptance of each keypress.
- Now, press and hold the key on the original remote until the LED indicator blinks off once and the touchscreen shows Learn Setup Screen 2. This process takes 2-3 seconds to complete.
- To learn another key, press and release the LCD LEARN key and repeat from Step 7.
- 10. If a problem occurs with the Learning process, the LED indicator light flashes for two seconds and you hear three beeps, but the unit remains in the Learn routine with Learn Setup Screen 1 displayed. Repeat from Step 6.

### Main Setup Screen



Device Setup Screen



Learn Setup Screen 1



Learn Setup Screen 2



# **Learn Commands (continued)**

- 11. To save and exit from the Learn routine, press and release the LCD OK key. The touchscreen returns to the Main Setup Screen.
- 12. The Learning process is now complete.

# Clear All Stored Learned Commands Under a Mode

If you want to clear all of the Learning commands under one mode, such as TV, VCR or DVD, follow these steps:

- Press and hold the SETUP key on the rubber keypad until the LED indicator light remains on and the touchscreen shows the Main Setup Screen. This process takes approximately 2-3 seconds.
- 2. Release the **SETUP** key.
- Press and release the LCD LEARN key. The LED indicator light blinks off once to indicate acceptance of the keypress.
- 4. The touchscreen now shows the Device Setup Screen. Press and release the device key on the rubber keypad for the mode commands you want the RCU900RF to clear (TV, VCR, SAT/CBL, etc.). The LED indicator light blinks once to indicate acceptance of the keypress.
- 5. The touchscreen now shows the Learn Setup Screen 1. Press and hold the **SETUP** key until the Main Setup Screen is displayed. All Learned commands that were previously stored under that mode are now cleared.







# **Master Clear**

Clearing all stored Learned commands is recommended before first-time Learning. To clear all Learned commands, follow these steps:

- Press and hold the SETUP key on the rubber keypad until the LED indicator light remains on and the touchscreen shows the Main Setup Screen. This process takes approximately 2-3 seconds.
- 2. Release the SETUP key.

- 3. Press and hold the LCD LEARN key until the Main Setup Screen is displayed. This process takes approximately 5 seconds.
- All Learned command entries are now cleared for all device modes.

# **Smart Macro Key Operations**

Your RCU900RF's Smart Macro feature allows you to execute a sequence of commands with one keypress. A Smart Macro learns any sequence of original remote commands. A total of 20 learned commands can be stored under each of the nine available LCD MACRO keys. The sequence of commands you want a Smart Macro to execute must be programmed in correct sequential order. Any sequence of commands that you regularly perform can be stored as a Smart Macro and reduced to a single keypress. You cannot program a Macro within a Macro.

# Program a Smart Macro

# **Example of Programming a Macro**

- Turn on the TV and set it to channel 3. Turn on the satellite receiver and set it to channel 57.
- 3. Turn on the VCR.

2

Now you're ready to record your favorite satellite program with just a press of a button.

To program a Smart Macro, follow these steps:

- Gather all your original remotes that contain functions you would like to add to a Smart Macro.
- 2. Place the first original remote in the Learning position. Point the top of the original remote at the base of the RCU900RF so the IR LED on the original remote is in line with the RCU900RF Learning sensor, located at the bottom of the remote.
- 3. Press and hold the SETUP key on the rubber keypad until the LED indicator light remains on and the touchscreen shows the Main Setup Screen. This process takes approximately 2-3 seconds.
- Release the SETUP key.
- 5. Press and release the LCD MACRO key. The LED indicator light blinks off once to indicate acceptance of the keypress.
- 6. The touchscreen now shows the Macro Setup Screen 1. Press and release the digit key under which you want to store the Smart Macro (from 1-9). The LED indicator light blinks off once to indicate acceptance of the keypress.
- 7. The touchscreen now shows the Macro Setup Screen 2. Press and release the LCD LEARN KEY?. The LED indicator light blinks off once to indicate acceptance of the keypress.









# **Program a Smart Macro (continued)**

- Macro Setup Screen 3 now appears on the touchscreen. Press and hold the key on the original remote until the LED indicator light on the RCU900RF blinks off once. This process takes 2-3 seconds to complete.
- The touchscreen now shows Macro Setup Screen 4. Release the original remote key.
- 10. Program additional commands in the order you want them to be stored in the Smart Macro. To add commands to the Smart Macro, repeat numbers 7 and 8 above, using original remotes to program.

Note: It may be necessary to add a delay in between the Macro commands to allow your TV warm-up time. The default delay between each Macro command is 0.5 seconds. Delays can be added by pressing and releasing the SETUP key during the Macro learn sequence. The Digit Select Screen is shown. Press and release a digit key (1-9) to indicate the delay time required (1=1 second; 2=2 seconds; 3=3 seconds, etc.). The maximum delay is 9 seconds. Pressing the CLEAR key will give the default delay of 0.5 seconds. Any delay added to the Macro sequence is counted as one keystroke of the possible 20 keystrokes for a Smart Macro.

 Continue to repeat this procedure for other keys to be stored. You can store up to 20 learned commands under one Smart Macro.

**Note:** If a problem occurs with the Learning, the LED indicator light flashes for two seconds but remains in the Smart Macro routine.

- Once you are finished programming the macro, press and release the LCD OK key.
- 13. The touchscreen returns to the Main Setup Screen.
- The Smart Macro programming is complete.
- 15. If you program all 20 keys into a Smart Macro, the Macro is automatically stored after the 20th learned command is completed.

Macro Setup Screen 3



Macro Setup Screen 4



# **Delete a Smart Macro**

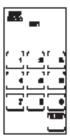
To delete a previously programmed Smart Macro, follow these steps:

- Press and hold the SETUP key on the rubber keypad until the LED indicator light remains on and the touchscreen shows the Main Setup Screen. This process takes approximately 2-3 seconds.
- 2. Release the SETUP key.
- 3. Press and hold the **LCD MACRO** key until Macro Setup Screen 7 is shown. The LED indicator light blinks to indicate acceptance of the keypress. Release the **LCD MACRO** key. Only the programmed Macro key numbers will be shown.
- Press and release the digit key for the Macro you wish to delete. The LED indicator light blinks off once to indicate acceptance of the keypress.
- The Macro deletion is complete and the Main Setup Screen will be shown.
- If you are in the process of deleting a Smart Macro and you decide not to delete it, you can abort the deletion process by pressing the LCD CLEAR key.

### Main Setup Screen



### Name and Address of the Owner, It



# **Sleep Timer**

Love to go to sleep with the TV on in the background? With the RCU900RF, you can program your TV to turn off after a period of time (from one to 99 minutes). The **LCD SLEEP** key is used to set the Sleep Timer and is only available in the main TV Mode. The **SLEEP** key is not displayed for any mode other than TV. The TV Off command is sent at the end of the time period to turn the TV off. You can set the Sleep Timer in two ways.

# Method 1 (From Normal Operation)

To set your Sleep Timer from normal operation, follow these steps:

- Press the TV device key on the rubber keypad.
- Press the LCD SCREEN key to switch to the second TV screen on the touchscreen, which shows the LCD SLEEP key.
- Press and hold the LCD SLEEP key in TV Screen 2 until the LED indicator light remains on and the touchscreen shows the Sleep Setup Screen. This process takes approximately 2-3 seconds.
- 4. Press and release the numeric keys indicating the number of minutes (01-99) you wish to set on the Sleep Timer. The LED indicator light blinks off once to indicate acceptance of the keypress and the screen returns to normal operation.
- 5. The Sleep Timer is now set.
- When using the Sleep Timer feature, leave the remote pointing towards the TV with an unobstructed path.

# Method 2 (From Setup Routine)

To set your Sleep Timer from the Setup routine, follow these steps:

- Press the TV device key on the rubber keypad.
- Press and hold the SETUP key on the rubber keypad until the LED indicator light remains on and the touchscreen shows the Main Setup Screen. This process takes approximately 2-3 seconds.
- Release the SETUP key.
- Press and release the SLEEP key. The LED indicator light blinks off once to indicate acceptance of the keypress.
- 5. The touchscreen now shows the Sleep Setup Screen. Press and release the numeric keys indicating the number of minutes (01-99) you wish to set on the Sleep Timer. The LED indicator light blinks off once to indicate acceptance of the keypress and the screen returns to normal operation.
- 6. The Sleep Timer is now set.
- When using the Sleep Timer feature, leave the remote pointing towards the TV with an unobstructed path.

# Notes

- To cancel the Sleep Timer, press and release the ON•OFF key on the rubber keypad in TV Mode or press and hold the LCD SLEEP key in TV Screen 2 until the remote beeps twice. The LED indicator light blinks to indicate acceptance of the keypress.
- The Sleep Timer settings are cleared when you enter Setup using the SETUP key on the rubber keypad. The Sleep Timer is also cleared when you enter the Macro Activation Screen.
- You can return to normal operation any time without setting the Sleep Timer by pressing the LCD CLEAR key.

# TV or CD/Audio Volume Punch-Through

Your RCU900RF's Punch-through command allows you to choose which device mode (either TV or AUDIO/AUX) controls the **VOL+**, **VOL-**, and **MUTE** keys on the rubber keypad. With this feature, your TV volume can work even when you are in VCR Mode, because it "punches through" from one device to another.

The device you select for Volume Punch-through control must be either the TV or the AUDIO/AUX device programmed with the CD/Audio unit. Any other selection (VCR, DVD, CAB, SAT/CBL) is denied and the LED indicator light flashes to indicate an error. The power-on default for volume control is TV Volume Punch-through.

Note: All CD/Audio Modes take any Volume/Mute keypress commands from the CD/Audio code, even when the TV is programmed as the Punch-through device. All other devices punch-through to the TV Volume/Mute control. When the CD/Audio option is chosen as the Punch-through device, all modes take any Volume/Mute keypress commands from the CD/Audio code.

To change the device that controls the **VOLUME** and **MUTE** keys Punch-through, follow these steps:

 Press and hold the SETUP key on the rubber keypad until the LED indicator light remains on and the Main Setup Screen is shown. This process takes approximately 2-3 seconds.

- 2. Release the SETUP key.
- Press and hold the device key on the rubber keypad for approximately 5 seconds (TV or AUDIO/AUX) for volume control until the LED indicator light blinks and the Main Setup Screen is shown.
- The default volume control is now set for the mode you have chosen.

# **VCR Punch-through**

The RCU900RF punches through the six transport keys (**REVERSE**, **PLAY**, **FORWARD**, **RECORD**, **STOP**, and **PAUSE**) to VCR or DVD Mode, whichever was used most recently. Punch-through to VCR/DVD transport keys on the rubber keypad is only allowed for TV, VCR, DVD, and Cable-coded Modes. AUX, SAT and CD/Audio are dedicated to their programmed modes.

# Record Key

In the VCR and AUDIO/CD Modes (including Punch-through), the **RECORD** key on the rubber keypad must be pressed twice before the command is sent. This is also true if a VCR device is programmed under any other mode. The exceptions are for DVD and SAT codes, where the **RECORD** key transmits the command after only a single **RECORD** keypress.

# **Additional Features**

# **Keypress Beep Feature**

Your RCU900RF beeps whenever a key is pressed to acknowledge the keypress. You can turn this feature on or off. The default setting is On.

To turn the Keypress Beep on or off, follow these steps:

- Press and hold the SETUP key on the rubber keypad until the LED indicator light remains on and the touchscreen shows the Main Setup Screen. This process takes approximately 2-3 seconds.
- 2. Release the **SETUP** key.
- Press and hold the MUTE key on the rubber keypad for approximately 5 seconds until the LED blinks and the Main Setup Screen is displayed.
- 4. The Keypress Beep feature is now turned on or off, depending on the previous state it was in.

# **LCD Touchscreen Display Time**

You can choose the length of time the touchscreen remains on after the last keypress. The power-on default is 30 seconds from the last keypress. Setting the LCD Touchscreen Display Time also changes the length of time the Backlight stays on, if activated.

To change the LCD Touchscreen Display Time, follow these steps:

 Press and hold the SETUP key on the rubber keypad until the LED indicator light remains on and the touchscreen shows the Main Setup Screen. This process takes approximately 2-3 seconds.

# **LCD Touchscreen Display Time (continued)**

- 2. Release the **SETUP** key.
- Press and release the SETUP key. The LED indicator light blinks to acknowledge the keypress and the Digit Setup Screen is shown.
- 4. Press and release a digit key (1-9) to indicate the length of time you wish the touchscreen to remain on. (The RCU900RF can only accept the following options: 1=10 seconds; 2=20 seconds; 3=30 seconds, etc.) Ninety seconds is the longest length of time allowable. The LED indicator blinks to acknowledge the keypress.
- Press and release the LCD ENTER key to save the setting. The touchscreen returns to the Main Setup Screen.
- 6. The LCD Touchscreen Display Time setting is now complete.

# **Backlighting**

Backlight illumination is only activated when you press the **LIGHT** key on the rubber keypad. Pressing the **LIGHT** key will also activate the LCD touchscreen display. After you press the **LIGHT** key, the light remains on for 30 seconds, or however long the LCD Touchscreen Display Time is set to, if no other commands are given.

If a command is entered after the **LIGHT** key has been pressed, the illumination continues for a further 30 seconds after the command is completed. Once the Backlight time has run out, the Backlight does not re-activate until the **LIGHT** key is pressed again. If the Backlight illumination is on, and the **LIGHT** key is pressed again, the Backlight turns off.

# **Master Reset**

A Master Reset returns all the RCU900RF defaults back to the original factory settings. The Master Reset clears all customer-programmed codes, Learned commands and Smart Macros, and resets all key labels.

To perform a Master Reset, follow these steps:

- Press and hold the SETUP key on the rubber keypad until the LED indicator light remains on and the touchscreen shows the Main Setup Screen. This process takes approximately 2-3 seconds.
- 2. Release the SETUP key.
- 3. Press and hold the **SETUP** key for approximately 5 seconds until the LED indicator light turns off.
- The default reset is now complete and the remote is in normal TV Mode (screen is blank).

# **RCA All Power Off Feature**

The RCA All Power Off feature is available in all normal operating modes. If the **ON•OFF** key on the rubber keypad is pressed twice consecutively (within two seconds), all RCA equipment is turned off.

# Glossary



# AUDIO FEATURES (ACTIVE LCD KEYS IN AUDIO DEVICE MODE)

### AM.FM

The AM.FM allows you to select the AM or FM band on your audio system.

CD, TAPE, TUNER, TV, VIDEO1 & VIDEO2 Use the CD, TAPE, TUNER, TV, VIDEO1 & VIDEO2 keys to select the device you want to control.

### CENTER, FRONT, REAR & OPTION

You can adjust the levels of the center, front and rear speakers by using the **LEVEL** ★ keys. For RCA audio receivers, the **OPTION** key is used to command your audio receiver to generate a test tone in order to make speaker balance adjustments to maximize your audio system performance.

# DSP

When the Digital Signal Processing (DSP) Mode is enabled, pressing this key allows you to cycle through the various DSP Modes.

### LEVEL▲ & LEVEL▼

The **LEVEL** keys are used to make adjustments on delay time, center speaker output level, rear speaker output level or front speaker output level.

### PROG

The **PROGRAM** key allows you to program your audio preset channels.

### DEVICE KEYS

The device keys on the rubber keypad change the device currently being controlled by the remote (e.g., TV, VCR, SAT/CBL, DVD, AUDIO, CD, AUX 1, AUX 2).

### ENTER

The **LCD ENTER** key is used to complete channel selections for some brands of TVs. It is also used to complete the highlighted sections in the Main Menu.

### **GUIDE**

If your device is equipped with this feature, the **LCD GUIDE** key brings up the on-screen program listing.

# **Glossary** (continued)

### **INPUT**

The **LCD INPUT** key selects the video inputs of your device, if the device is equipped with this feature.

### LCD

The Liquid Crystal Display (LCD) acts as a "virtual keypad" on the remote. The touchscreen is normally blank when not in use. Pressing any of the LCD keys or the **SETUP** key, a device key, or the **LIGHT** key on the rubber keypad turns the touchscreen on. The remaining rubber keys do not activate the touchscreen.

### **LEARN**

The Learn feature is used to supplement the pre-programmed code library. The standard code library provides the basic functions needed, and you can add a small number of additional functions of your choice.

### **MENU**

The LCD MENU key brings up the Main Menu. If you are already in the menu system, press the LCD OK or MENU keys to select a highlighted choice. Use the LCD NAVIGATION keys (UP, DOWN, LEFT, and RIGHT ARROW keys) to move through the menu selections.

Note: With some brands, the CH+ and CH- and VOL+ and VOL- keys on the rubber keypad navigate through the highlighted choices. Once you select a device key, you put the remote in that device mode and it will remain in that mode until you press another device key. When you put the remote in a specific device mode, the menu that is activated on the touchscreen will be the menu for that mode. For example, if you put the remote in TV Mode, the menu you see on the touchscreen is for the TV Mode.

# MUTE

The **LCD MUTE** key mutes the volume on your device with volume control.

# NAVIGATION KEY & OK KEYS

Use the LCD NAVIGATION keys (**UP**, **DOWN**, **LEFT**, and **RIGHT ARROW** keys) to move through the on-screen menu and guides. The **NAVIGATION** keys may also be used to move through the highlighted choices. The **LCD OK** key chooses the highlighted choice.

Note: With some manufactured models, the LCD MENU or ENTER key should be used to select the highlighted choices.

### PIP & SWAP

The LCD Picture-in-Picture (**PIP**) and **SWAP** keys operate your TV's Picture-in-Picture features.

# PREVIOUS CHANNEL (PREV CH)

The **PREV CH** key on the rubber keypad lets you access the previous channel you selected. It operates the same way as the **LAST CHANNEL** or **RECALL** keys do on many remotes.

### PUNCH-THROUGH

A Punch-through command has the ability to punch-through from one device to another, (e.g., the TV volume can work while the remote is in the VCR Mode).

### SETUP KEY

The **SETUP** key on the rubber keypad is used to walk you through the steps in setting up the remote. Setup is used for Library Code Entry, Code Search, Code Identification and other functions. During a Setup function, if no button is pressed for 60 seconds, the unit automatically exits from the Setup routine.

### SLEEP KEY

The **LCD SLEEP** key allows you to turn your TV off automatically at a predetermined time.

# SLEEP TIMER

The Sleep Timer allows you to program your TV to turn off after a period of time (from one to 99 minutes). The **LCD SLEEP** key is used to set the Sleep Timer and is only available in the main TV Mode.

### SMART MACRO

The Smart Macro function, when programmed, causes a series of events to occur in sequential order. Pressing the **LCD MACRO** key activates a screen that allows you to select any of your programmed Macros. An example of a Macro sequence could be "Turn on the TV; then set it to channel 3; then turn on the satellite receiver; then set it to Channel 57." You can program and store nine Smart Macros, with each consisting of up to 20 commands.

### TRANSPORT KEYS

The transport keys are located on the rubber keypad. Transport keys include the REVERSE, PLAY, FORWARD, RECORD, STOP and PAUSE keys.

### TV/VCR

The LCD TV/VCR key operates the **TV/VCR** function of your VCR.

# VOLUME AND CHANNEL KEYS

The **VOLUME** and **CHANNEL** keys (**VOL+**, **VOL-**, **CH+**, and **CH-** keys) on the rubber keypad increase and decrease the volume level and channel numbers.

**Note:** With some brands, these keys also navigate through highlighted choices in Menu Mode.

### **Troubleshooting PROBLEM** SOLUTION The touchscreen does not show A) Replace the batteries with four anything when you touch it or new AA alkaline batteries. when you press the SETUP or B) Check to make sure batteries LIGHT keys. are properly installed. The remote does not operate your A) Try all code programming audio or video devices. procedures with all the codes from the appropriate part of the Code List. B) Make sure the remote is in the correct mode for the device you are attempting to control (TV,VCR,DVD, etc.). A) Try the VCR code for your You have problems programming a TV/VCR combination unit. brand. Some combination units, however, may require both a TV and a VCR code for full operation. To do this, program the TV code under the TV key and the VCR under the VCR key. Your VCR is not recording. A) As a safety feature on your remote, you must press the REC key on the rubber keypad twice. You have trouble changing the A) If the original remote requires the ENTER key to be pressed channels on your TV. after a channel is selected, press the LCD ENTER key on the RCU900RF to select the channel. The LCD OK key is not A) Try using the LCD MENU, GUIDE, or ENTER key to responding. make the selection.

A) Replace batteries in the RCU900RF and the remote from

which you are trying to learn.

B) The distance between the

The Learning or Smart Macro

successfully.

processes cannot be completed

# Code List

Abov	
Anam National	
Belcor	
Brokwood	
	01, 004, 008, 009, 042, 053, 058, 105, 109, 177
	001, 004, 008, 009, 042, 053, 058, 105, 109, 177
Curtis Mathes	000, 001, 004, 009, 015, 031, 049, 105, 109
Dumont	
Elektra	
	$\dots$ .004, 009, 014, 023, 024, 025, 026, 027,030, 032
	004, 009, 014, 023, 024, 025, 026, 027,030, 032 033, 034, 035, 36, 037, 038, 039, 040, 041,042,
	004, 009, 014, 023, 024, 025, 026, 027,030, 032 033, 034, 035, 36, 037, 038, 039, 040, 041,042, 043, 045, 046, 049, 053, 116, 135, 147, 177, 179
Envision	
Envision	004, 009, 014, 023, 024, 025, 026, 027,030, 032 033, 034, 035, 36, 037, 038, 039, 040, 041,042, 043, 045, 046, 049, 053, 116, 135, 147, 177, 179,
Envision Fisher Fujitsu	. 004, 009, 014, 023, 024, 025, 026, 027,030, 032 . 033, 034, 035, 36, 037, 038, 039, 040, 041,042, . 043, 045, 046, 049, 053, 116, 135, 147, 177, 179 
Envision Fisher Fujitsu Funai	
Envision Fisher Fujitsu Funai Futuretec	
Envision Fisher Fujitsu Funai Futuretec GE	.004, 009, 014, 023, 024, 025, 026, 027,030, 032 .033, 034, 035, 36, 037, 038, 039, 040, 041,042, .043, 045, 046, 049, 053, 116, 135, 147, 177, 179 
Envision Fisher Fujitsu Funai Futuretec GE	
Envision Fisher Fujitsu Funai Futuretec GE Gibralter	
Envision Fisher Fujitsu Funai Futuretec GE Gibralter Goldstar	.004, 009, 014, 023, 024, 025, 026, 027,030, 032 .033, 034, 035, 36, 037, 038, 039, 040, 041,042, .043, 045, 046, 049, 053, 116, 135, 147, 177, 179 
Envision Fisher Fujitsu Funai Futuretec GE Gibralter Goldstar Grundy	$ \begin{array}{c} .004,009,014,023,024,025,026,027,030,032 \\ .033,034,035,36,037,038,039,040,041,042,\\ .043,045,046,049,053,116,135,147,177,179 \\$
Envision Fisher Fujitsu Funai Futuretec GE Gibralter Goldstar Grundy Hallmark Harvard	.004, 009, 014, 023, 024, 025, 026, 027,030, 032 .033, 034, 035, 36, 037, 038, 039, 040, 041,042, .043, 045, 046, 049, 053, 116, 135, 147, 177, 179
Envision Fisher Fujitsu Funai Futuretec GE Gibralter Goldstar Grundy Hallmark Harvard Hitachi	$ \begin{array}{c} .004,009,014,023,024,025,026,027,030,032 \\ .033,034,035,36,037,038,039,040,041,042,\\ .043,045,046,049,053,116,135,147,177,179 \004,009 \013,049,050,180,209 \046,197 \042,053,046 \042,053,046 \042,053,046 \042,053 \000,003,004,009,022,031,044,052,054 \055,087,092,103,107,125,164,181 \004,121 \004,005,009,056,057,133,155,156,172 \046,053 \053,004,009 \055,001,004,009,013,059,060,061,088,091,137 \001,004,009,013,059,060,061,088,091,137 \001,004,009,013,059,060,061,088,091,137 \001,004,009,013,059,060,061,088,091,137 \001,004,009,013,059,060,061,088,091,137 \001,004,009,013,059,060,061,088,091,137 \001,004,009,013,059,060,061,088,091,137 \001,004,009,013,059,060,061,088,091,137 \001,004,009,013,059,060,061,088,091,137 \001,004,009,013,059,060,061,088,091,137 \001,004,009,013,059,060,061,088,091,137 \001,004,009,013,059,060,061,088,091,137 \001,004,009,013,059,060,061,088,091,137 \001,004,009,013,059,060,061,088,091,137 \001,004,009,013,059,060,061,088,091,137 \001,001,001,001,001,001,001,$
Envision Fisher Fujitsu Funai Futuretec GE Gibralter Goldstar Grundy Hallmark Harvard Hitachi	.004, 009, 014, 023, 024, 025, 026, 027,030, 032 .033, 034, 035, 36, 037, 038, 039, 040, 041,042, .043, 045, 046, 049, 053, 116, 135, 147, 177, 179
Envision Fisher Fujitsu Funai Futuretec GE Gibralter Goldstar Grundy Hallmark Harvard Hitachi IMA	$ \begin{array}{c} .004,  009,  014,  023,  024,  025,  026,  027, 030,  032 \\ .033,  034,  035,  36,  037,  038,  039,  040,  041, 042, \\ .043,  045,  046,  049,  053,  116,  135,  147,  177,  179 \ , $
Envision Fisher Fujitsu Funai Futuretec GE Gibralter Goldstar Grundy Hallmark Harvard Hitachi IMA	$ \begin{array}{c} .004,009,014,023,024,025,026,027,030,032 \\ .033,034,035,36,037,038,039,040,041,042,\\ .043,045,046,049,053,116,135,147,177,179 \\$
Envision Fisher Fujitsu Funai Futuretec GE Gibralter Goldstar Grundy Hallmark Harvard Hitachi IMA Infinity Inteq	$ \begin{array}{c} .004,009,014,023,024,025,026,027,030,032 \\ .033,034,035,36,037,038,039,040,041,042,\\ .043,045,046,049,053,116,135,147,177,179 \\$
Envision Fisher Fujitsu Funai Futuretec GE Gibralter Goldstar Grundy Hallmark Harvard Hitachi IMA Infinity Inteq Janeil	$ \begin{array}{c} .004,  009,  014,  023,  024,  025,  026,  027, 030,  032 \\ .033,  034,  035,  36,  037,  038,  039,  040,  041, 042, \\ .043,  045,  046,  049,  053,  116,  135,  147,  177,  179 \ , $
Envision Fisher Fujitsu Funai Futuretec GE Gibralter Goldstar Grundy Hallmark Harvard Hitachi IMA Infinity Inteq Janeil JBL	$ \begin{array}{c} .004,009,014,023,024,025,026,027,030,032 \\ .033,034,035,36,037,038,039,040,041,042,\\ .043,045,046,049,053,116,135,147,177,179 \\$
Envision Fisher Fujitsu Funai Futuretec GE Gibralter Goldstar Grundy Hallmark Harvard Hitachi IMA Infinity Inteq Janeil JBL	. 004, 009, 014, 023, 024, 025, 026, 027,030, 032 . 033, 034, 035, 36, 037, 038, 039, 040, 041,042, . 043, 045, 046, 049, 053, 116, 135, 147, 177, 179
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Envision Fisher Fujitsu Funai Futuretec GE Gibralter Goldstar Grundy Hallmark Harvard Hitachi IMA Infinity Inteq Janeil JBL JCB JC Penny	
Envision Fisher Fujitsu Funai Futuretec GE Gibralter Goldstar Grundy Hallmark Harvard Hitachi IMA Infinity Inteq Janeil JBL JCB JC Penny Jensen	
Envision Fisher Fujitsu Funai Futuretec GE Gibralter Goldstar Grundy Hallmark Harvard Hitachi IMA Infinity Inteq Janeil JBL JCB JC Penny Jensen JVC	
Envision Fisher Fujitsu Funai Futuretec GE Gibralter Goldstar Grundy Hallmark Harvard Hitachi IMA Infinity Inteq Janeil JBL JCB JC Penny Jensen JVC Kawasho	$ \begin{array}{c} .004, 009, 014, 023, 024, 025, 026, 027, 030, 032 \\ .033, 034, 035, 36, 037, 038, 039, 040, 041, 042, \\ .043, 045, 046, 049, 053, 116, 135, 147, 177, 179 \\$
Envision Fisher Fujitsu Funai Futuretec GE Gibralter Goldstar Grundy Hallmark Harvard Hitachi IMA Infinity Inteq Janeil JBL JCB JC Penny Jensen JVC Kawasho Kayapani	
Envision Fisher Fujitsu Funai Futuretec GE Gibralter Goldstar Grundy Hallmark Harvard Hitachi IMA Infinity Inteq Janeil JBL JCB JC Penny Jensen JVC Kawasho Kaypani KEC	
Envision Fisher Fujitsu Funai Futuretec GE Gibralter Goldstar Grundy Hallmark Harvard Hitachi IMA Infinity Inteq Janeil JBL JCB JC Penny Jensen JVC Kawasho Kaypani KEC Kenwood	
Envision Fisher Fujitsu Funai Futuretec GE Gibralter Goldstar Grundy Hallmark Harvard Hitachi IMA Infinity Inteq Janeil JBL JCB JC Penny Jensen JVC Kawasho Kawasho Kayaani KEC Kenwood Kloss Novabeam	
Envision Fisher Fujitsu Funai Futuretec GE Gibralter Goldstar Grundy Hallmark Harvard Hitachi IMA Infinity Inteq Janeil JBL JCB JC Penny Jensen JVC Kawasho Kaypani KEC Kenwood Kloss Novabeam Konka	.004, 009, 014, 023, 024, 025, 026, 027,030, 032 .033, 034, 035, 36, 037, 038, 039, 040, 041,042, .043, 045, 046, 049, 053, 116, 135, 147, 177, 179
Envision Fisher Fujitsu Funai Futuretec GE Gibralter Goldstar Grundy Hallmark Harvard Hitachi IMA Infinity Inteq Janeil JBL JCB JC Penny Jensen JVC Kawasho Kaypani KEC Kenwood Kloss Novabeam Konka KTV	
Envision Fisher Fujitsu Funai Futuretec GE Gibralter Goldstar Grundy Hallmark Harvard Hitachi IMA Infinity Inteq Janeil JBL JCB JC Penny Jensen JVC Kawasho Kayaani KEC Kenwood Kloss Novabeam Konka KTV Lodgenet	
Envision Fisher Fujitsu Funai Futuretec GE Gibralter Goldstar Grundy Hallmark Harvard Hitachi  IMA Infinity Inteq Janeil JBL JCB JC Penny  Jensen JVC Kawasho Kaypani KEC Kenwood Kloss Novabeam Konka KTV Lodgenet Loewe	.004, 009, 014, 023, 024, 025, 026, 027,030, 032 .033, 034, 035, 36, 037, 038, 039, 040, 041,042, 043, 045, 046, 049, 053, 116, 135, 147, 177, 179
Envision Fisher Fujitsu Funai Futuretec GE Gibralter Goldstar Grundy Hallmark Harvard Hitachi IMA Infinity Inteq Janeil JBL JCB JC Penny JC Kawasho Kaypani KEC Kenwood Kloss Novabeam Konka KTV Lodgenet Loewe Logik	
Envision Fisher Fujitsu Funai Futuretec GE Gibralter Goldstar Grundy Hallmark Harvard Hitachi IMA Infinity Inteq Janeil JBL JCB JC Penny Jensen JVC Kawasho Kaypani KEC Kenwood Kloss Novabeam Konka KTV Lodgenet Loewe Logik Luxman	.004, 009, 014, 023, 024, 025, 026, 027,030, 032 .033, 034, 035, 36, 037, 038, 039, 040, 041,042, .043, 045, 046, 049, 053, 116, 135, 147, 177, 179
Envision Fisher Fujitsu Funai Futuretec GE Gibralter Goldstar Grundy Hallmark Harvard Hitachi  IMA Infinity Inteq Janeil JBL JCB JC Penny  Jensen JVC Kawasho Kaypani KEC Kenwood Kloss Novabeam Konka KTV Lodgenet Loewe Logik Luxman LXI	.004, 009, 014, 023, 024, 025, 026, 027,030, 032 .033, 034, 035, 36, 037, 038, 039, 040, 041,042, 043, 045, 046, 049, 053, 116, 135, 147, 177, 179
Envision Fisher Fujitsu Funai Futuretec GE Gibralter Goldstar Grundy Hallmark Harvard Hitachi  IMA Infinity Inteq Janeil JBL JCB JC Penny Jensen JVC Kawasho Kaypani KEC Kenwood Kloss Novabeam Konka KTV Lodgenet Loewe Loewe Logik Luxman LXI Maganayox	.004, 009, 014, 023, 024, 025, 026, 027,030, 032 .033, 034, 035, 36, 037, 038, 039, 040, 041,042, .043, 045, 046, 049, 053, 116, 135, 147, 177, 179

Televisions (continued)		
Majestic		
Megatron		9
MEI		4 5
MGA		0
Minutz		2
Motorola		3
Multitech		3
NEC		5
Onwa		3
Philco	.003, 004, 005, 008, 009, 062, 068, 069, 074, 075, 077, 133	3
	003, 004, 006, 008, 062, 068, 069, 074, 075, 076, 086, 087, 089, 133, 163, 183, 184, 205, 206, 207, 208, 212, 21	3
Pioneer		5
Price Cub		5
Proscan		1
Pulser		4
Radio Shack		Э,
	053, 095, 133, 155, 170, 172, 19000, 003, 004, 005, 007, 009, 011, 048, 078, 082, 083	
	092, 094, 096, 098, 099, 101, 102, 103, 107, 113, 125	Ď,
Realistic		Э,
Runco		1
Samsung		4
Sansui		6
Scotch		9
		9
Shogun	004, 009, 079, 095, 111, 112, 114, 122, 123, 124, 17	4
Sonic		4
Soundesign		6
SSS		3
Supremacy		4
Supreme		2
Symphonic		9
Technics		5 5
Teknika		3,
Telecaption		7
Telerent		1
TMK		9
	013, 049, 089, 105, 109, 117, 118, 120, 159, 176 	
Victor		0
Viking		4
White Westinghouse		0
Zenith	.000, 001, 004, 023, 038, 058, 059, 064, 121, 135, 136, 15	3

VCR/PVR	
Aiwa	002, 020, 026, 044
Candle	
	021, 060, 114, 115
CCE	
Craig	
	002, 006, 012, 014, 015, 021, 024, 025, 026, 029,030, 031, 032, 033, 034, 035, 036, 037, 038, 039,
	040, 041, 043, 044, 045, 047, 060, 065, 105, 116
GE	
Harley Davidson	
Hitachi	002, 055, 057, 107, 111, 120, 122, 144, 145
JCL	
	009, 013, 014, 043, 055, 060, 107, 111, 115, 118 123
IVC	
	009, 016, 043, 111, 123
Logik	
Marantz	
Marta	
	.001, 002, 013, 014, 021, 023, 026, 043, 060, 104, 112
Mitsubishi029, 051,	052, 055, 065, 066, 068, 069, 070, 071, 073, 074, 123
Multitech	
	009, 016, 024, 043, 064, 076, 077, 078, 111, 123
Olympus	
	001, 014, 109, 134, 136, 137, 138
Panasonic	021, 060, 109, 115, 125, 138, 148, 149
	016, 055, 107, 120
Philco	
Philips	
Philips	

VCR/PVR (continued)	055 090 09	1 100
Radioshack		, 043,
Realistic	000, 001, 002, 013, 014, 021, 023, 026, 029	, 043,
	049, 050, 060, 075, 109, 112, 115, 136, 137	
	.014, 021, 023, 043, 048, 049, 050, 055, 060, 062, 10	
Sharp		3, 142
Sony	004, 099, 128, 139, 140, 14	1, 147
STS	021, 055, 060	0, 107
Totevision	01	3, 014
Vootor Docoorch	000 015 014	2 199
Victor		123
Victor		123 9, 123 013
Victor	.009, 015, 016, 029	123 9, 123 013 , 029,
Victor	.009, 015, 016, 020 .001, 002, 013, 014, 015, 021, 023, 026 .055, 060, 061, 075, 101, 10	123 9, 123 013 , 029, 7, 116
Victor Video Concepts Videosonic Wards White Westinghouse		123 9, 123 013 6, 029, 7, 116 2, 008
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha		123 9, 123 013 6, 029, 7, 116 2, 008 0, 061 1, 123
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith	.009, 015, 016, 024 .001, 002, 013, 014, 015, 021, 023, 026 .055, 060, 061, 075, 101, 10 .001 .021, 026, 036 .009, 043, 11 .001, 004, 007, 010, 014, 018, 022, 056	123 9, 123 013 6, 029, 7, 116 2, 008 0, 061 1, 123 6, 058,
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith		123 9, 123 013 6, 029, 7, 116 2, 008 0, 061 1, 123 6, 058,
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith	.009, 015, 016, 024 .001, 002, 013, 014, 015, 021, 023, 026 .055, 060, 061, 075, 101, 10 .001 .021, 026, 036 .009, 043, 11 .001, 004, 007, 010, 014, 018, 022, 056	123 9, 123 013 6, 029, 7, 116 2, 008 0, 061 1, 123 6, 058,
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith		123 9, 123 013 , 029, 7, 116 2, 008 0, 061 1, 123 , 058, 3, 145
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith  DVD Aiwa		123 9, 123 013 , 029, 7, 116 2, 008 0, 061 1, 123 , 058, 3, 145
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith  DVD Aiwa Akai		123 9, 123 013 , 029, 7, 116 2, 008 0, 061 1, 123 , 058, 3, 145
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith  DVD Aiwa Akai Apex		123 9, 123 013 , 029, 7, 116 2, 008 0, 061 1, 123 , 058, 3, 145 189 170
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith  DVD Aiwa Akai Apex Daewoo		123 9, 123 013 , 029, 7, 116 2, 008 0, 061 1, 123 , 058, 3, 145 189 170 199 3, 219
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith  DVD Aiwa Akai Apex Daewoo Denon		123 9, 123 013 , 029, 7, 116 2, 008 0, 061 1, 123 , 058, 3, 145 189 170 199 3, 219 5, 196
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith  DVD Aiwa Akai Apex Daewoo Denon Elta Emerson		123 9, 123 013 , 029, 7, 116 2, 008 2, 008 1, 123 , 058, 3, 145 189 170 199 5, 219 5, 196 9, 210
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith  DVD Aiwa Akai Apex Daewoo Denon Elta Emerson Fisher		123 9, 123 013 , 029, 7, 116 2, 008 0, 061 1, 123 , 058, 3, 145 189 170 199 3, 219 5, 196 9, 210
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith  DVD Aiwa Akai Apex Daewoo Denon Elta Emerson Fisher GE		123 9, 123 013 , 029, 7, 116 2, 008 1, 123 , 058, 3, 145 189 170 199 3, 219 9, 210 171 191 205
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith  DVD Aiwa Akai Apex Daewoo Denon Elta Emerson Fisher GE Go-Video		123 9, 123 013 ,, 7, 116 2, 008 0, 061 1, 123 , 058 , 3, 145 189 170 9, 210 171 191 2, 205 2, 201
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith  DVD Aiwa Akai Apex Daewoo Denon Elta Emerson Fisher GE GO-Video Harman/Kardon		123 3, 123013013013013013013013013013013013013013013013013013013013189170199171191205191202
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith  DVD Aiwa Akai Apex Daewoo Denon Elta Emerson Fisher GE Go-Video Harman/Kardon Hitachi Integra		123 3, 1230130130130130130297, 116 2, 008 1, 058, 1, 123 1, 124 1, 124 1, 124 1, 127
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith  DVD Aiwa Akai Apex Daewoo Denon Elta Emerson Fisher GE GO-Video Harman/Kardon Hitachi Integra JVC		123 9, 123 013 9, 029, 7, 116 2, 008 9, 061 1, 123 1, 058, 1, 058, 1, 123 1,
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith  DVD Aiwa Akai Apex Daewoo Denon Elta Emerson Fisher GE Go-Video Harman/Kardon Hitachi Integra IVC Kenwood		123 3, 123 013 029, 7, 116 2, 008 3, 105 189 3, 219 5, 196 171 195 191 195 196 191 191 195 195 195 195 195 196 195 19
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith  DVD Aiwa Akai Apex Daewoo Denon Elta Emerson Fisher GE Go-Video Harman/Kardon Hitachi Integra JVC Kenwood Konka		
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith  DVD Aiwa Akai Apex Daewoo Denon Elta Emerson Fisher GE GO-Video Harman/Kardon Hitachi Integra JVC Kenwood Konka Magnavox		
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith  DVD Aiwa Akai Apex Daewoo Denon Elta Emerson Fisher GE Go-Video Harman/Kardon Hitachi Integra JVC Kenwood Konka Magnavox Marantz Mitsubishi		
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith  DVD Aiwa Akai Apex Daewoo Denon Elta Emerson Fisher GE Go-Video Harman/Kardon Hitachi Integra JVC Kenwood Konka Magnavox Marantz Mitsubishi Mustek		
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith  DVD Aiwa Akai Apex Daewoo Denon Elta Emerson Fisher GE GO-Video Harman/Kardon Hitachi Integra JVC Kenwood Konka Magnavox Marantz Mitsubishi Mustek NAD		
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith  DVD Aiwa Akai Apex Daewoo Denon Elta Emerson Fisher GE Go-Video Harman/Kardon Hitachi Integra JVC Kenwood Konka Magnavox Marantz Mitsubishi Mustek NAD Nakamichi		
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith  DVD Aiwa Akai Apex Daewoo Denon Elta Emerson Fisher GE Go-Video Harman/Kardon Hitachi Integra JVC Kenwood Konka Magnavox Marantz Misubishi Mustek NAD Nakamichi Onkyo		
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith  DVD Aiwa Akai Apex Daewoo Denon Elta Emerson Fisher GE Go-Video Harman/Kardon Hitachi Integra JVC Kenwood Konka Magnavox Marantz Mitsubishi Mustek NAD Nakamichi Onkyo Optimus Oritron		
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith  DVD Aiwa Akai Apex Daewoo Denon Elta Emerson Fisher GE Go-Video Harman/Kardon Hitachi Integra JVC Kenwood Konka Magnavox Marantz Mitsubishi Mustek NAD Nakamichi Onkyo Optimus Oritron Panasonic		
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith  DVD Aiwa Akai Apex Daewoo Denon Elta Emerson Fisher GE Go-Video Harman/Kardon Hitachi Integra JVC Kenwood Konka Magnavox Marantz Mitsubishi Mustek NAD Nakamichi Onkyo Optimus Oritron Panasonic Philips		
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith  DVD  Aiwa Akai Apex Daewoo Denon Elta Emerson Fisher GE Go-Video Harman/Kardon Hitachi Integra JVC Kenwood Konka Magnavox Marantz Mitsubishi Mustek NAD Nakamichi Onkyo Optimus Optimus Optimus Optimus Optimus Pioneer		
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith  DVD Aiwa Akai Apex Daewoo Denon Elta Emerson Fisher GE GO-Video Harman/Kardon Hitachi Integra JVC Kenwood Konka Magnavox Marantz Mitsubishi Mustek NAD Nakamichi Onkyo Optimus Oritron Panasonic Philips Pioneer Proscan Radioshack		
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith  DVD  Aiwa Akai Apex Daewoo Denon Elta Emerson Fisher GE Go-Video Harman/Kardon Hitachi Integra JVC Kenwood Konka Magnavox Marantz Mitsubishi Mustek NAD Nakamichi Onkyo Optimus Optimus Optimus Optimus Optimus Optimus Pioneer Proscan Radioshack RCA		
Victor Video Concepts Videosonic Wards White Westinghouse XR-1000 Yamaha Zenith  DVD  Aiwa Akai Apex Daewoo Denon Elta Emerson Fisher GE Go-Video Harman/Kardon Hitachi Integra JVC Kenwood Konka Magnavox Marantz Mitsubishi Mustek NAD Nakamichi Onkyo Optimus Optimus Optimus Optimus Optimus Optimus Pioneer Proscan Radioshack RCA		

Sampo	
SEG <sup>1</sup>	
Sharp	
Sherwood	
Shinco	
Sony	
Teac	
Theta Digital	
Toshiba	
WharfedaleYamaha	
Yamakawa	
Zenith	
Zeillui	
Satellite Receivers	
	115
Amplica	
Chapparal	
Cheyenne	
Drake	
Dish Network	
DX Antenna	
Echosphere	
Echostar	
Expressvu	
Fujitsu	
GÉ	
General Instruments	
DSS Hitachi	160 170 179 179 179
Janeil	
Jerrold	
JVC	
Kenwood	
Luxor	
DSS Magnavox	
Macom State	
Norstat	141, 142
Pace	
DSS Panasonic	
Primestar	
Philips	
Philips/Magnavox	
Pioneer	
Proscan	176 180 102 103
DSS RCA	176, 189, 192, 193
DSS RCA	
DSS RCA	
DSS RCA Realistic Samsung Scientific Atlanta	
DSS RCA	
DSS RCA Realistic Samsung Scientific Atlanta Aharp	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba Toshiba DSS	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba Toshiba DSS Uniden	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba Toshiba DSS Uniden DSS Uniden	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba Toshiba DSS Uniden	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba Toshiba DSS Uniden DSS Uniden Video Cipher II	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba Toshiba DSS Uniden DSS Uniden Video Cipher II Zenith 102, 103	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba Toshiba DSS Uniden DSS Uniden Video Cipher II	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba Toshiba Toshiba DSS Uniden DSS Uniden Uideo Cipher II Zenith  L102, 103  Cable Boxes	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba Toshiba DSS Uniden DSS Uniden Video Cipher II Zenith  Cable Boxes  ABC  001	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba Toshiba Toshiba DSS Uniden DSS Uniden Uideo Cipher II Zenith  L102, 103  Cable Boxes	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba Toshiba DSS Uniden Uniden Use Cipher II Zenith Jo2, 103  Cable Boxes  ABC Americast Alexand Allegro Americast	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba Toshiba DSS Uniden DSS Uniden Video Cipher II Zenith  Cable Boxes  ABC Allegro Americast Antronix Archer	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba Toshiba DSS Uniden DSS Uniden Video Cipher II Zenith  Cable Boxes  ABC ABC AMericast Antronix Archer AT&T	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba Toshiba Toshiba DSS Uniden DSS Uniden Ufdeo Cipher II Zenith Jenith 102, 103  Cable Boxes  ABC 001 Allegro Americast Antronix Archer AT&T Cabletenna	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba Toshiba DSS Uniden DSS Uniden Video Cipher II Zenith 102, 103  Cable Boxes  ABC Allegro Americast Antronix Archer AT&T Cabletenna Cableview	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba DSS Uniden DSS Uniden Video Cipher II Zenith 102, 103  Cable Boxes ABC Allegro Americast Antronix Archer AT&T Cabletenna Cableview Century	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba Toshiba Toshiba DSS Uniden DSS Uniden Video Cipher II Zenith 102, 103  Cable Boxes  ABC Americast Antronix Archer AT&T Cabletenna Cableview Century Citizen	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba Toshiba DSS Uniden Uideo Cipher II Zenith  Cable Boxes  ABC Allegro Americast Antronix Archer AT&T Cabletena Cableview Century Citizen Colour Voice	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba DSS Uniden DSS Uniden Video Cipher II Zenith 102, 103  Cable Boxes ABC Allegro Americast Antronix Archer AT&T Cabletenna Cableview Century Citizen Colour Voice Comtronics	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba Toshiba Toshiba DSS Uniden DSS Uniden Uideo Cipher II Zenith Jo2, 103  Cable Boxes  ABC Americast Antronix Archer AT&T Cabletenna Cableview Century Citizen Colour Voice Comtronics Contec/Cony	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba Toshiba DSS Uniden Uniden DSS Uniden Video Cipher II Zenith  Cable Boxes ABC Allegro Americast Antronix Archer AT&T Cabletena Cableview Century Citizen Colour Voice Comtronics Contec/Cony Eastern	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba Toshiba Toshiba DSS Uniden DSS Uniden Uideo Cipher II Zenith Jo2, 103  Cable Boxes  ABC Americast Antronix Archer AT&T Cabletenna Cableview Century Citizen Colour Voice Comtronics Contec/Cony	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba DSS Uniden Uideo Cipher II Zenith 102, 103  Cable Boxes  ABC Allegro Americast Antronix Archer AT&T Cabletenna Cableview Century Citizen Colour Voice Comtronics Contec/Cony Eastern Castranta Castranta Caleria Carard	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba Toshiba Toshiba DSS Uniden DSS Uniden Uideo Cipher II Zenith 102, 103  Cable Boxes  ABC Allegro Americast Antronix Archer AT&T Cabletenna Cableview Century Citizen Colour Voice Comtronics Contec/Cony Eastern Garrard GC Electronics Gemini GE	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba Toshiba DSS Uniden Usse Uniden Usse Uniden Usse Uniden DSS Uniden Video Cipher II Zenith Jo2, 103  Cable Boxes ABC Allegro Americast Antronix Archer AT&T Cabletenna Cableview Century Citizen Colour Voice Contronics Contec/Cony Eastern Garrard GC Electronics Gemini GE General Instrument Ji III	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba DSS Uniden DSS Uniden Video Cipher II Zenith Joz. 103  Cable Boxes ABC Allegro Americast Antronix Archer AT&T Cabletena Cableview Century Citizen Colour Voice Comtronics Contec/Cony Eastern Garrard GC Electronics Gemini GE General Instrument House Maiera Galvesa General Instrument	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba Toshiba DSS Uniden Uideo Cipher II Zenith Jose Boxes ABC Allegro Americast Antronix Archer AT&T Cabletenna Cableview Century Citizen Colour Voice Comtronics Contec/Cony Eastern Garrard GC Electronics Gemini GE General Instrument Jin III Jens Allegro Amalin Hitachi Jose Jose Jose Jose Jose Jose Jose Jose	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba Toshiba DSS Uniden Uideo Cipher II Zenith Jo2, 103  Cable Boxes  ABC Allegro Americast Antronix Archer AT&T Cabletenna Cableview Century Citizen Colour Voice Contronics Contec/Cony Eastern GC Electronics Gemini GE General Instrument Hitachi	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba Toshiba DSS Uniden DSS Uniden Video Cipher II Zenith Journal Journal Journal Americast Antronix Archer AT&T Cabletena Cableview Century Citizen Colour Voice Comtronics Contec/Cony Eastern Garrard GC Electronics Gemini GE General Instrument Hitachi Hytex Jasco	
DSS RCA Realistic Samsung Scientific Atlanta Aharp Aierra I, II, III DSS Sony Starchoice Star Sight Star Trak STS Super Guide Thomson Toshiba Toshiba DSS Uniden Uideo Cipher II Zenith Jo2, 103  Cable Boxes  ABC Allegro Americast Antronix Archer AT&T Cabletenna Cableview Century Citizen Colour Voice Contronics Contec/Cony Eastern GC Electronics Gemini GE General Instrument Hitachi	

Cable Boxes (cor	ntinued)										
Magnavox										0	)25
Memorex											
Movie Time											
NSC OAK											
Pace											
Panasonic										.000, 0	048
Paragon		• • • • • •		011	010	010	010			0	)26
Philips Philips/Magnavo	v			011,	012,	013,	019,	025,	030,	031, 0	132 174
Pioneer											
Pulsar											
Radio Shack											
RCA											
Regal											
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Rembrandt											
Runco											
Scientific Atlanta											
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Star Trak											
Tandy											
Teleview											
Telewest											
Tocom											
Toshiba											
Tusa											
TV86											
Unika											
United Cable											
Universal											
Videoway											144
Viewstar										027, 0	040
Video Tech							 			027, 0	040 090
							 			027, 0	040 090
Video Tech Zenith	026, 028, 04						 			027, 0	040 090
Video TechZenith	026, 028, 04 stems	3, 057,	059,	 060,	 061,	062,	 063,	064,	065,	027, 0 0 067, 0	040 090 073
Video TechZenith	::.026, 028, 04	3, 057,	059, (	060,	061,	062,	063,	.179,	 065, 182,	027, 0 0 067, 0	040 090 073 200
Video Tech	::.026, 028, 04 stems	3, 057,	059,	060,	061,	062,	063,	.179,	 065, 182,	027, 0 0 067, 0	040 090 073 200 165
Video TechZenith	026, 028, 04 stems	3, 057,	059, (	060,	061,	062,	063,	.179,	182,	027, 0 0 067, 0	040 090 073 200 165 166
Audio Sys Aiwa Carver Citizen Denon Fisher	026, 028, 04 stems	3, 057,	059, (	060,	061,	062,	063,	.179,	182,	027, 0 0 067, 0 191, 2 1 1 .143, 1	040 090 073 200 165 166 157 161
Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar	026, 028, 04 stems	3, 057,	059, (	060,		062,	063,	.179,	182,	027, 0 0 067, 0 191, 2 1 1 .143, 1 .154, 1	040 090 073 200 165 166 157 161
Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar Harman Kardon	026, 028, 04 stems	3, 057,	059, (	060,	061,	062,	063,	.179,	182,	027, 0 0 067, 0 191, 2 1 .143, 1 1 .154, 1 1	040 090 073 200 165 166 157 161 106 158
Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar	026, 028, 04 stems	3, 057,	059, (	060,	061,	062,	063,	.179,	182, 	191, 2 1 1 .143, 1 1 .154, 1 1 .144, 1	040 090 073 200 165 166 157 161 106 158 159
Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar Harman Kardon JVC Kenwood Magnavox	026, 028, 04 stems	3, 057,	059, (	060,	061,	062,		.179,	 065, 182,       130, 156,	191, 2 1 1 .143, 1 .154, 1 1 .144, 1 153, 1 168, 1	040 090 073 200 165 166 157 161 106 158 159 172
Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar Harman Kardon JVC Kenwood Magnavox Marantz	026, 028, 04 stems	3, 057,	059, (	060,		062,		.179,	182, 	191, 2 1 1 .143, 1 .154, 1 1 .144, 1 153, 1 168, 1 .136, 1	040 090 073 200 165 166 157 161 106 158 159 172 154 164
Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar Harman Kardon JVC Kenwood Magnavox Marantz NAD	026, 028, 04 stems	3, 057,	059, (	060,	061,	062,		.179,		027, 0 0 067, 0 191, 2 1 .143, 1 .154, 1 1 153, 1 168, 1 136, 1 .028, 1 079, 0	040 090 073 200 165 166 157 161 106 158 159 172 154 164 083
Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar Harman Kardon JVC Kenwood Magnavox Marantz	026, 028, 04 stems	3, 057,	059, (			062,		.179,		027, 0 0 067, 0 191, 2 1 .143, 1 .154, 1 1 153, 1 168, 1 .136, 1 .028, 1 079, 0 151, 1	200 165 166 157 161 106 158 159 172 154 164 283 152
Video Tech Zenith  Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar Harman Kardon JVC Kenwood Magnavox Marantz NAD Onkyo Optimus Panasonic	026, 028, 04	3, 057,	059, (	060,	061,					027, 0 0 067, 0 191, 2 1 .143, 1 .154, 1 1 168, 1 .136, 1 .028, 1 079, 0 151, 1 094, 1 .150, 1	040 090 073 200 165 166 157 161 106 158 159 172 154 164 083 152 133 155
Video Tech Zenith  Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar Harman Kardon JVC Kenwood Magnavox Marantz NAD Onkyo Optimus Panasonic Philips		3, 057,	059, (	060,						027, 0 067, 0 191, 2 1 143, 1 154, 1 153, 1 168, 1 1028, 1 079, 0 151, 1 105, 1 106, 1 116,	040 090 073 200 165 166 157 161 106 158 159 172 154 164 083 152 133 155 165
Video Tech Zenith  Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar Harman Kardon JVC Kenwood Magnavox Marantz NAD Onkyo Optimus Panasonic Philips Pioneer	026, 028, 04 stems	3, 057,	059, (							027, 0 067, 0 191, 2 1 143, 1 11 144, 1 153, 1 168, 1 1079, 0 151, 1 094, 1 150, 1 150, 2	040 090 073 200 165 166 157 161 106 158 172 154 164 083 152 133 155 165 218
Video Tech Zenith  Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar Harman Kardon JVC Kenwood Magnavox Marantz NAD Onkyo Optimus Panasonic Philips Pioneer Radioshack	026, 028, 04	3, 057,	059, (059, 0007, 00							027, 0 067, 0 191, 2 1 143, 1 153, 1 168, 1 136, 1 079, 0 151, 1 094, 1 150, 1 164, 1 207, 2 218, 2	040 090 073 200 165 166 157 161 106 158 159 172 154 164 163 152 133 155 165 218 219
Video Tech Zenith  Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar Harman Kardon JVC Kenwood Magnavox Marantz NAD Onkyo Optimus Panasonic Philips Pioneer		046, 11, 135,	0007, (0007, (0004, 167, 167, 167, 167, 167, 167, 167, 167	 060,	061,					027, 0 067, 0 191, 2 1 154, 1 154, 1 154, 1 153, 1 154, 1 155, 1 1094, 1 151, 1 1094, 1 164, 1 207, 2 218, 2 218, 2	040 090 073 200 165 166 157 161 106 158 159 172 154 164 168 3 152 133 155 165 218 2219
Video Tech Zenith  Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar Harman Kardon JVC Kenwood Magnavox Marantz NAD Onkyo Optimus Panasonic Philips Pioneer Radioshack RCA Realistic Sanyo			0059, (0007, (000	060,		062,				027, 0 067, 0 191, 2 191, 2 1143, 1 1154, 1 1154, 1 1153, 1 1156, 1 1150, 1 1150, 1 1207, 2 218, 2 218, 2	040 090 073 200 165 166 157 161 161 158 159 172 154 164 083 155 218 219 219 162 045
Video Tech Zenith  Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar Harman Kardon JVC Kenwood Magnavox Marantz NAD Onkyo Optimus Panasonic Philips Pioneer Radioshack RCA Realistic Sanyo Scott		046, 11, 135,	0007, (0007, (0004, 167, 167, 167, 167, 167, 167, 167, 167	060,	061,	062,				027, 0 067, 0 191, 2 1 143, 1 154, 1 153, 1 154, 1 155, 1 156, 1 1	200 165 166 157 161 158 159 172 154 164 083 152 133 155 165 218 219 219
Video Tech Zenith  Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar Harman Kardon JVC Kenwood Magnavox Marantz NAD Onkyo Optimus Panasonic Philips Pioneer Radioshack RCA Realistic Sanyo Scott Sharp			059, (007, (007, (0094, 167, 167, 167, 167, 167, 167, 167, 167	060,	 061,  088,  146, 207,	089,				027, 0 067, 0 191, 2 1 143, 1 154, 1 153, 1 154, 1 153, 1 155, 1 1028, 1 207, 2 218, 2 218, 2 218, 2 218, 2 218, 2	040 090 073 200 165 166 157 161 106 158 159 172 154 164 163 153 155 165 218 219 219 162 162 168 149
Video Tech Zenith  Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar Harman Kardon JVC Kenwood Magnavox Marantz NAD Onkyo Optimus Panasonic Philips Pioneer Radioshack RCA Realistic Sanyo Scott		.046, 1, 135,	059, (0007	060,	088,	062,				027, 0 067, 0 191, 2 1 143, 1 154, 1 153, 1 153, 1 153, 1 164, 1 207, 2 218, 2 218, 2 218, 2 218, 2 150, 1 150, 1	040 090 073 200 165 166 157 161 106 158 159 172 154 164 219 219 165 218 219 219 162 108 149 199
Video Tech Zenith  Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar Harman Kardon JVC Kenwood Magnavox Marantz NAD Onkyo Optimus Panasonic Philips Pioneer Radioshack RCA Realistic Sanyo Scott Sharp Sherwood Sony Teac		046, 1, 135,	059, (059, 0007, 00							027, 0 067, 0 191, 2 1 154, 1 153, 1 168, 1 153, 1 168, 1 1153, 1 168, 1 1153, 1 168, 1 1154, 1 1155, 1 125, 2 18,	040 090 073 200 165 166 157 161 106 158 159 172 154 164 083 152 218 219 219 2162 045 108 149 199
Video Tech Zenith  Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar Harman Kardon JVC Kenwood Magnavox Marantz NAD Onkyo Optimus Panasonic Philips Pioneer Radioshack RCA Realistic Sanyo Scott Sharp Sherwood Sony Teac Teac Technics		046, 1, 135,	0059, (0007, 0007,							027, 0 067, 0 191, 2 1 154, 1 153, 1 168, 1 153, 1 168, 1 151, 1 0028, 1 079, 0 151, 1 0028, 2 218, 2 1 154, 1 155, 1 164, 1 155, 1 164, 1 155, 1 164, 1 155, 1 165, 1 166, 1 176,	040 090 073 200 165 166 157 161 106 158 159 172 154 164 218 218 218 218 219 162 045 108 149 199 183 197 204
Video Tech Zenith  Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar Harman Kardon JVC Kenwood Magnavox Marantz NAD Onkyo Optimus Panasonic Philips Pioneer Radioshack RCA Realistic Sanyo Scott Sharp Sherwood Sony Teac Technics Venturer		046,11,135,	059, (059, (059, 059, 059, 059, 059, 059, 059, 059,			062, 089, 205, 210, 139,		.179,		027, 0 067, 0 191, 2 1	040 090 073 200 165 166 157 106 158 159 172 1154 1083 1552 1183 1155 218 219 219 219 162 163 164 165 165 165 172 172 172 173 174 175 176 176 176 176 176 176 176 176 176 176
Video Tech Zenith  Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar Harman Kardon JVC Kenwood Magnavox Marantz NAD Onkyo Optimus Panasonic Philips Pioneer Radioshack RCA Realistic Sanyo Scott Sharp Sherwood Sony Teac Technics Venturer Yamaha		046,	0059, ( 0007,							027, 0 067, 0 191, 2 1 154, 1 153, 1 168, 1 153, 1 168, 1 151, 1 079, 0 218, 2 218, 2	040 090 073 200 165 166 157 1106 158 159 172 154 164 083 155 218 219 219 162 045 149 199 183 197 204 085 189
Video Tech Zenith  Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar Harman Kardon JVC Kenwood Magnavox Marantz NAD Onkyo Optimus Panasonic Philips Pioneer Radioshack RCA Realistic Sanyo Scott Sharp Sherwood Sony Teac Technics Venturer		046,	0059, ( 0007, ( 0007, ( 0007, ( 1118, 118,							027, 0 067, 0 191, 2 1 154, 1 153, 1 168, 1 153, 1 168, 1 151, 1 079, 0 218, 2 218, 2	040 090 073 200 165 166 157 1106 158 159 172 154 164 083 155 218 219 219 162 045 149 199 183 197 204 085 189
Video Tech Zenith  Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar Harman Kardon JVC Kenwood Magnavox Marantz NAD Onkyo Optimus Panasonic Philips Pioneer Radioshack RCA Realistic Sanyo Scott Sharp Sherwood Sony Teac Technics Venturer Yamaha Zenith		046,	0059, ( 0007, ( 0007, ( 0007, ( 1118, 118,							027, 0 067, 0 191, 2 1 154, 1 153, 1 168, 1 153, 1 168, 1 151, 1 079, 0 218, 2 218, 2	200 165 166 157 161 106 158 159 152 154 164 083 155 165 218 219 219 162 045 108 199 183 197 204 183
Video Tech Zenith  Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar Harman Kardon JVC Kenwood Magnavox Marantz NAD Onkyo Optimus Panasonic Philips Pioneer Radioshack RCA Realistic Sanyo Scott Sharp Sherwood Sony Teac Technics Venturer Yamaha Zenith		046, 1, 135,	059, ( 0007, ( 0007, ( 1118, ( 1141, ( 016, (							027, 0 067, 0 067, 0 191, 211, 154, 1 153, 1 168, 1 153, 1 168, 1 151, 1 079, 0 151, 1 094, 1 150, 1 150, 1 196, 1 196, 1 196, 1 196, 1 196, 1 196, 1 196, 1	040 090 073 200 165 166 157 161 158 159 172 183 155 164 083 155 165 218 219 162 045 168 149 199 183 183 189 190
Video Tech Zenith  Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar Harman Kardon IVC Kenwood Magnavox Marantz NAD Onkyo Optimus Panasonic Philips Pioneer Radioshack RCA Realistic Sanyo Scott Sharp Sherwood Sony Teac Technics Venturer Yamaha Zenith  CD Player ADC		046, 1, 135,	0059, (	060, 						027, 0 067, 0 067, 0 191, 21 1.54, 1 1.54, 1 1.53, 1 168, 1 1.55, 1 1.028, 1 079, 0 1.51, 1 0.028, 2 188, 2 2.18	040 090 0773 200 165 166 157 161 161 158 159 172 172 173 173 174 164 164 163 164 165 165 165 165 165 165 165 165 165 165
Video Tech Zenith  Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar Harman Kardon JVC Kenwood Magnavox Marantz NAD Onkyo Optimus Panasonic Philips Pioneer Radioshack RCA Realistic Sanyo Scott Sharp Sherwood Sony Teac Technics Venturer Yamaha Zenith  CD Playei ADC Adcom		046, 1, 135,	0007, (000		061, 	062, 089, 089, 139, 131, 180, 099,	063, 			027, 0 067, 0 191, 2 1 1.143, 1 1.154, 1 1.153, 1 1.154, 1 1.153, 1 1.154, 1 1.154, 1 1.153, 1 1.154, 1 1.15	040 090 0773 200 165 166 157 161 161 154 164 083 155 165 162 183 1155 162 183 197 204 199 199 190 190 190 190 190 190 190 190
Video Tech Zenith  Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar Harman Kardon IVC Kenwood Magnavox Marantz NAD Onkyo Optimus Panasonic Philips Pioneer Radioshack RCA Realistic Sanyo Scott Sharp Sherwood Sony Teac Technics Venturer Yamaha Zenith  CD Player ADC		046, 1, 135,	0007, 0007, 0004, 167, 1118, 1141, 016, 0			062,  089,  205, 210,  139, 131, 				027, 0 067, 0 067, 0 191, 211 154, 1 153, 1 168, 1 153, 1 168, 1 151, 1 079, 0 218, 2 218, 2 218, 2 218, 2 218, 2 18, 2	040 090 073 200 165 166 157 161 161 158 159 172 172 183 152 183 152 194 199 190 190 190 190 190 190 190 190 190
Video Tech Zenith  Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar Harman Kardon JVC Kenwood Magnavox Marantz NAD Onkyo Optimus Panasonic Philips Pioneer Radioshack RCA Realistic Sanyo Scott Sharp Sherwood Sony Teac Technics Venturer Yamaha Zenith  CD Player Adcom Aiwa Akai Audio Technica			0059, (	060, 060, 133, 206, 137, 142, 070,	061, 	062, 089, 205, 210, 139, 131, 180, 099,				027, 0 067, 0 067, 0 191, 211 1.143, 1 1.154, 1 1.53, 1 1.154, 1 1.53, 1 1.154, 1 1.53, 1 1.154, 1 1.53, 1 1.154, 1 1.53, 1 1.154, 1 1.54, 1 1.550, 1 1.50	040 090 073 200 165 166 157 158 159 152 154 164 165 152 1155 165 218 219 162 045 163 183 197 204 085 190 000 054 201 170 005
Video Tech Zenith  Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar Harman Kardon JVC Kenwood Magnavox Marantz NAD Onkyo Optimus Panasonic Philips Pioneer Radioshack RCA Realistic Sanyo Scott Sharp Sherwood Sony Teac Technics Venturer Yamaha Zenith  CD Player ADC Adcom Aiwa Akai Audio Technica California Audio		046, 1, 135,	007, 007, 0094, 167, 1118, 1141, 016, 0	060, 0087, 133, 206, 137, 142, 070,		062, 089, 089, 131, 180, 099,				027, 0 067, 0 067, 0 191, 211 154, 1 153, 1 168, 1 153, 1 168, 1 151, 1 079, 0 218, 2 218, 2 218, 2 218, 2 218, 2 218, 2 218, 2 218, 2 218, 2 218, 2 218, 2 2077, 1 198, 1 154, 1	040 090 0773 200 165 166 157 161 106 158 172 154 163 155 165 218 219 219 162 219 183 197 190 190 190 190 190 190 190 190 190 190
Video Tech Zenith  Audio Sys Aiwa Carver Citizen Denon Fisher Goldstar Harman Kardon JVC Kenwood Magnavox Marantz NAD Onkyo Optimus Panasonic Philips Pioneer Radioshack RCA Realistic Sanyo Scott Sharp Sherwood Sony Teac Technics Venturer Yamaha Zenith  CD Player Adcom Aiwa Akai Audio Technica		046, 1, 135,	007, 007, 0094, 167, 1118, 1141, 016, 0	060, 0087, 133, 206, 137, 142, 070,		062, 089, 089, 131, 180, 099,				027, 0 067, 0 067, 0 191, 211 154, 1 153, 1 168, 1 153, 1 168, 1 151, 1 079, 0 218, 2 218, 2 218, 2 218, 2 218, 2 218, 2 218, 2 218, 2 218, 2 218, 2 218, 2 2077, 1 198, 1 154, 1	040 090 073 200 165 166 157 106 158 159 165 121 183 183 155 165 218 219 162 045 183 189 190 000 170 000 005 005 005 005 005

Carver	165
Casio	
Citizen	
Curtis Mathes	
Denon	
Emerson	
Fisher	013
GE	
Genexxa	
Goldstar	
Harman Kardon	
Hitachi	
Inkel	
IC Penney	
IVC	
Kenwood	
Krell	
Kyocera	
Luxman	
LXI	
Magnavox	
Marantz	
MCS	
MGA	
Mission	
Mitsubishi	
NAD	
Nakamichi	
NEC	
Nikko	
NSM	
Onkyo	
Ontimus 007 008 012 018 024 037 038 039 040 084 087	091
Optimus	091
Optimus	091 080
Optimus	091 080 165
Optimus     .007, 008, 012, 018, 024, 037, 038, 039, 040, 084, 087,       Panasonic     .056, 073,       Philips     .006, 071,       Pioneer     .018, 041, 042, 059, 090, 177,	091 080 165 216
Optimus       .007, 008, 012, 018, 024, 037, 038, 039, 040, 084, 087,         Panasonic       .056, 073,         Philips       .006, 071,         Pioneer       .018, 041, 042, 059, 090, 177,         Proton	091 080 165 216 006
Optimus       .007, 008, 012, 018, 024, 037, 038, 039, 040, 084, 087,         Panasonic       .056, 073,         Philips       .006, 071,         Pioneer       .018, 041, 042, 059, 090, 177,         Proton       .008, 071,         Quasar       .008, 001, 002, 003, 003, 003, 003, 003, 003, 003	091 080 165 216 .006
Optimus         .007, 008, 012, 018, 024, 037, 038, 039, 040, 084, 087,           Panasonic         .056, 073,           Philips         .006, 071,           Pioneer         .018, 041, 042, 059, 090, 177,           Proton         .008, 046, 090, 214,           Quasar         .008, 046, 090, 214,	091 080 165 216 006 056 216
Optimus         .007, 008, 012, 018, 024, 037, 038, 039, 040, 084, 087,           Panasonic         .056, 073,           Philips         .006, 071,           Pioneer         .018, 041, 042, 059, 090, 177,           Proton         Quasar           Radioshack         .008, 046, 090, 214,           RCA         .043, 063, 090, 135, 184, 213, 214,	091 080 165 216 006 056 216 216
Optimus         .007, 008, 012, 018, 024, 037, 038, 039, 040, 084, 087,           Panasonic         .056, 073,           Philips         .006, 071,           Pioneer         .018, 041, 042, 059, 090, 177,           Proton         .008, 046, 090, 214,           Radioshack         .008, 046, 090, 214,           RCA         .043, 063, 090, 135, 184, 213, 214,           Realistic         .001, 007, 009, 012, 013, 018, 029, 037,	091 080 165 216 006 056 216 216 039
Optimus         .007, 008, 012, 018, 024, 037, 038, 039, 040, 084, 087, Panasonic         .056, 073, Philips           Philips         .006, 071, Dioneer           Proton         .018, 041, 042, 059, 090, 177, Proton           Quasar         .008, 046, 090, 214, RCA           RCA         .043, 063, 090, 135, 184, 213, 214, Realistic           Realistic         .001, 007, 009, 012, 013, 018, 029, 037, Rotel	091 080 165 216 006 056 216 216 039
Optimus     .007, 008, 012, 018, 024, 037, 038, 039, 040, 084, 087, Panasonic       Panasonic     .056, 073, Philips       Philips     .006, 071, Pioneer       Proton     .018, 041, 042, 059, 090, 177, Quasar       Radioshack     .008, 046, 090, 214, RCA       RecA     .043, 063, 090, 135, 184, 213, 214, Realistic       Rotel     .001, 007, 009, 012, 013, 018, 029, 037, Rotel       SAE	091 080 165 216 006 056 216 216 039 006
Optimus     .007, 008, 012, 018, 024, 037, 038, 039, 040, 084, 087, Panasonic     .056, 073, 006, 071, 006, 071, 006, 071, 006, 071, 006, 071, 006, 071, 072, 072, 073, 074, 074, 074, 074, 074, 074, 074, 074	091 080 165 216 006 056 216 216 039 006 006
Optimus     .007, 008, 012, 018, 024, 037, 038, 039, 040, 084, 087, Panasonic       Panasonic     .056, 073, Philips       Philips     .006, 071, Pioneer       Proton     .018, 041, 042, 059, 090, 177, Proton       Quasar     .008, 046, 090, 214, RCA       RCA     .043, 063, 090, 135, 184, 213, 214, Realistic       Realistic     .001, 007, 009, 012, 013, 018, 029, 037, Rotel       SAE     .088, 046, 090, 214, 044, 063, 090, 135, 184, 213, 214, 214, 214, 214, 214, 214, 214, 214	091 080 165 216 006 056 216 216 039 006 006 081
Optimus     .007, 008, 012, 018, 024, 037, 038, 039, 040, 084, 087, Panasonic       Panasonic     .056, 073, Philips       Philips     .006, 071, 006, 071, O71, O72, 072, 072, 073, 074, 074, 074, 074, 074, 074, 074, 074	091 080 165 216 006 056 216 216 039 006 006 0081 074 082
Optimus     .007, 008, 012, 018, 024, 037, 038, 039, 040, 084, 087, Panasonic       Panasonic     .056, 073, Philips       Philips     .006, 071, Pioneer       Proton     .018, 041, 042, 059, 090, 177, Proton       Quasar     Radioshack       RCA     .043, 063, 090, 135, 184, 213, 214, Realistic       Rotel     .001, 007, 009, 012, 013, 018, 029, 037, Rotel       SAE     .038, 046, 090, 124, 063, 063, 090, 135, 184, 213, 214, Rotel       Sansui     .006, 012, 044, 063, 063, 090, 090, 090, 090, 090, 090, 090, 09	091 080 165 216 006 056 216 216 039 006 006 081 074 082 013
Optimus     .007, 008, 012, 018, 024, 037, 038, 039, 040, 084, 087, Panasonic     .056, 073, Philips       Philips     .006, 071, 006, 071, Phoneer     .018, 041, 042, 059, 090, 177, Proton       Quasar     .008, 046, 090, 214, RCA     .008, 046, 090, 214, 214, 214, 214, 214, 214, 214, 214	091 080 165 216 006 056 216 039 006 006 0081 074 082 013 117
Optimus     .007, 008, 012, 018, 024, 037, 038, 039, 040, 084, 087, Panasonic       Panasonic     .056, 073, Philips       Philips     .006, 071, 006, 071, 006, 071, 071, 072, 072, 072, 073, 074, 074, 074, 074, 074, 074, 074, 074	091 080 165 216 006 056 216 039 006 006 081 074 082 013 117 029
Optimus         .007, 008, 012, 018, 024, 037, 038, 039, 040, 084, 087, Panasonic         .056, 073, Philips         .056, 073, Philips         .006, 071, 006, 071, Pioneer         .018, 041, 042, 059, 090, 177, O06, 071, 071, 072, 072, 073, 074, 074, 074, 074, 074, 074, 074, 074	091 080 165 216 006 056 216 216 039 006 006 081 074 082 013 117 029 199
Optimus         .007, 008, 012, 018, 024, 037, 038, 039, 040, 084, 087, Panasonic         .056, 073, Philips           Philips         .006, 071, 006, 071, 006, 071, 071, 072, 072, 072, 073, 074, 074, 074, 074, 074, 074, 074, 074	091 080 165 216 006 056 216 2216 039 006 006 081 074 082 013 117 029 199 030
Optimus     .007, 008, 012, 018, 024, 037, 038, 039, 040, 084, 087, Panasonic       Panasonic     .056, 073, Philips       Pioneer     .018, 041, 042, 059, 090, 177, Proton       Quasar	091 080 165 216 006 056 216 216 039 006 0081 074 0082 013 117 029 199 030 140
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# Helpline

If you need additional setup assistance, please call the Helpline at: 1-800-420-7968.

# **Limited 90-Day Warranty**

Thomson multimedia Inc. warrants that for 90 days from date of purchase, it will replace this product if found to be defective in materials or workmanship. Return it postage paid to the Product Exchange Center address for prompt, no-charge replacement with a current equivalent. This replacement is Thomson multimedia Inc.'s sole obligation under this warranty. Thomson multimedia Inc. 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 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.

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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.

This equipment generates and uses radio frequency energy, and if not installed and used properly, that is, in strict accordance with the manufacturers instructions, it may cause interference to radio and television reception. It has been type tested and found to comply with the limits for remote control devices in accordance with the specifications in Sub-Parts B and C of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by unplugging the equipment, try to correct the interference by one or more of the following measures.

- Reorient the antenna of the radio/TV experiencing the interference.
- · Relocate the equipment with respect to the radio/TV.
- · Move the equipment away from the radio/TV.
- Plug the equipment into an outlet on a different electrical circuit from the radio/TV experiencing the interference.
- If necessary, consult your local dealer for additional suggestions.

NOTE: Modifications to this product will void the user's authority to operate this equipment.