



Universal Learning Remote with TOUCHSCREEN User's Guide



remote

Limited 90 Day Warranty

RCU900

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Universal Learning Remote with Touchscreen

Congratulations on your purchase of the RCU900 by RCA. The RCU900 is one of the most sophisticated, yet easy to use, remote control units available today. With the RCU900, juggling multiple remote controls is a thing of the past! Your RCU900 controls up to eight devices, including the most popular brands of TV, VCR, DVD, SAT/CBL, CD and audio equipment. The RCU900 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 RCU900 is easy to use, easy to program, and it gives you total control—at the touch of your fingertips!

Battery Information

Your RCU900 Universal Learning Remote with Touchscreen requires four AA alkaline batteries (sold separately).

Battery Installation

To install the batteries:

1. Turn the remote to the bottom side, pull on the tab and lift off the cover.
2. 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 RCU900 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.

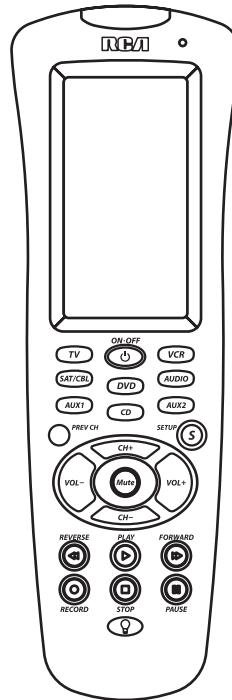
Code Saver

With the RCU900, 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 RCU900 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 RCU900 to control them. In these instances, the remote should work as soon as the batteries are installed.

RCU900



LCD Touchscreen

The LCD (Liquid Crystal Display) touchscreen on your RCU900 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.

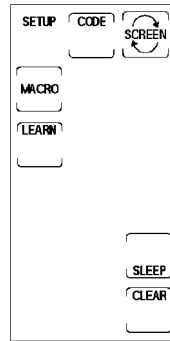
The LCD touchscreen remains blank when the remote is not in use. The LCD touchscreen turns on automatically when you press the **SETUP** key, any device key or the **LIGHT** key on the rubber keypad, or any LCD touchscreen key. The remaining rubber keys do not activate the LCD touchscreen.

LED Indicator Light

The LED (Light Emitting Diode) indicator light, located at the upper right-hand side of the RCU900 unit, lights up whenever a rubber key or any LCD touchscreen key is pressed. The LED indicator light flashes and beeps three times (approximately two seconds) to indicate any error condition.

Setup Routine and Procedures

Main Setup Screen



The **SETUP** key is located towards the middle of the RCU900 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.

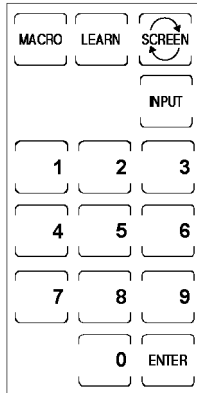
During the Setup function, if you press any key not shown on the touchscreen or a key not expected as part of a Setup routine, the RCU900 ignores that keypress. Pressing the LCD **CLEAR** key in a Setup routine returns the touchscreen to the Main Setup Screen. When you press the **CLEAR** key, any changes 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.

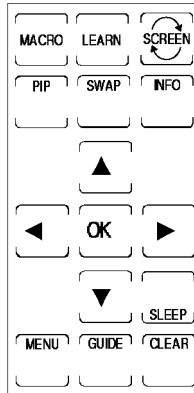
Device Control Screens

Your RCU900 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.

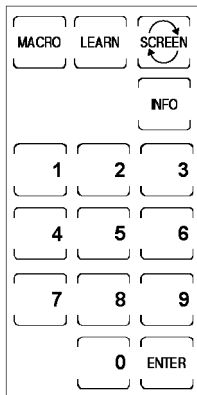
TV Screen 1



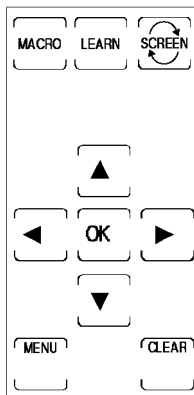
TV Screen 2



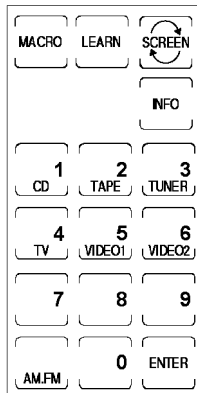
DVD Screen 1



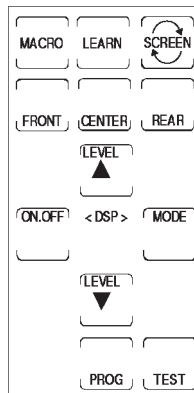
DVD Screen 2

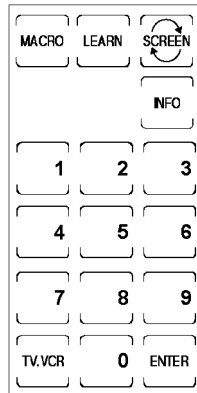
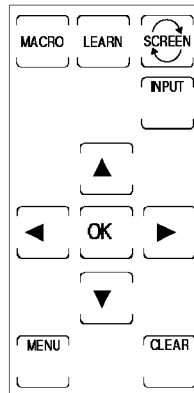
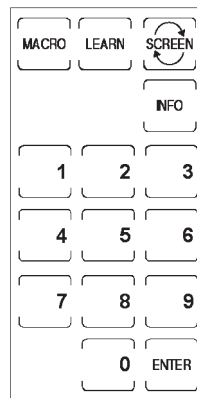
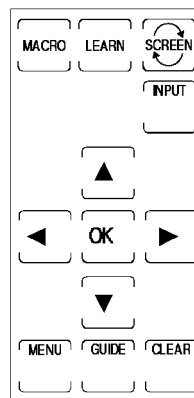


AUDIO Screen 1



AUDIO Screen 2



VCR Screen 1**VCR Screen 2****SAT-CBL Screen 1****SAT-CBL Screen 2**

Code Entry

In order for the RCU900 to control your devices (TV, VCR, DVD, etc.), you must program it with the library code for each device. This enables the RCU900 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 RCU900 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.

Library Code Entry

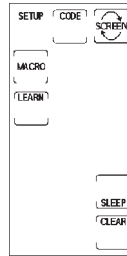
You can enter codes in your RCU900 from the Code List using the **SETUP** key on the rubber keypad. (See the Code List of the most popular brands on page 29.) When you enter a valid code for any given mode (e.g., when you enter a code for a TV), the Default Key Label Screen is used and any previously 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.).
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.
4. Press and release the LCD **CODE** 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 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.
6. For AUX1 or AUX2, press and release the **AUX** device key, followed by the desired device key to be programmed under AUX (**TV**, **VCR**, **SAT/CBL**, etc.).
7. 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 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.
8. 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 RCU900 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



Code Setup Screen



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.

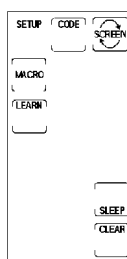
When you enter a valid code for any given mode (e.g., when you enter a code for a TV), the default key labels are displayed on the touchscreen and any previously Learned functions for that mode are deleted. The mode is reset to its power-on default state. However, Macro settings remain unchanged and 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.).
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.
4. Press and release the LCD **CODE** 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 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.
6. For AUX1 or AUX2, press the **AUX** device key. Select the desired device key to be programmed under AUX (**TV, VCR, SAT/CBL**, etc.).
7. The touchscreen now shows the Code Setup Screen. Press and release the LCD **SEARCH** key.
8. 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 your device, since you may discover

Main Setup Screen



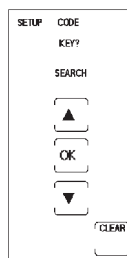
Device Setup Screen



Code Setup Screen



Search Setup Screen



Code Search (continued)

that some codes can turn your device on and off 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+, LCD UP ARROW**, or **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.
10. Press **CLEAR** on the Main Setup Screen to exit Setup Mode.

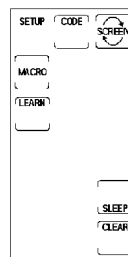
Code Autosearch

Your RCU900 has the ability to automatically scroll through the entire code library by using the Autosearch feature.

To start a Code Autosearch, follow these steps:

1. Manually turn on the device to be controlled (TV, VCR, DVD, etc.).
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.
4. Press and release the LCD **CODE** 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 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.
6. For **AUX1** or **AUX2**, press and release the **AUX** device key. Select the desired device key to be programmed under **AUX (TV, VCR, SAT/CBL, etc.)**.
7. 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.

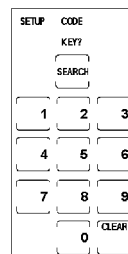
Main Setup Screen



Device Setup Screen

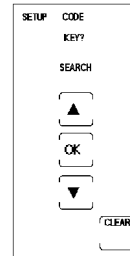


Code Setup Screen



9. 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 RCU 900 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+**, **LCD UP ARROW**, or **PLAY** keys.
12. Once the device to be controlled responds to the commands, press and release the **LCD OK** key to install the code.
13. The touchscreen returns to the Main Setup Screen. The Code Search entry is now complete.
14. Press **CLEAR** on the Main Setup Screen to exit Setup Mode.

Search Setup Screen



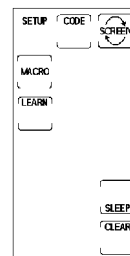
Code Identification

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:

1. 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 release the **LCD CODE** key. The LED indicator light blinks once to indicate acceptance of the keypress.
4. 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.
5. The touchscreen now shows the Code Setup Screen. Press and release the **SETUP** key. The LED indicator light blinks 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

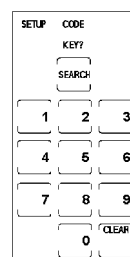
Main Setup Screen



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 once 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

Code ID Setup Screen

SETUP CODE

INFO

Blink Back Digits

Code Identification Chart

Enter your codes here for easy reference:

TV CODE <input type="text"/> <input type="text"/> <input type="text"/>	AUX 1 device: <input type="text"/> <input type="text"/> <input type="text"/>	AUDIO Tuner <input type="checkbox"/> AMP <input type="checkbox"/> Tape <input type="checkbox"/> <input type="text"/> <input type="text"/> <input type="text"/>
VCR CODE <input type="text"/> <input type="text"/> <input type="text"/>	AUX 2 device: <input type="text"/> <input type="text"/> <input type="text"/>	CD CODE <input type="text"/> <input type="text"/> <input type="text"/>
SAT/CBL CODE <input type="text"/> <input type="text"/> <input type="text"/>		
DVD CODE <input type="text"/> <input type="text"/> <input type="text"/>		

Key Label Options

With the RCU900, 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.
- Release the **SETUP** key.
- Press and release the LCD **SCREEN** key. The LED indicator light blinks once to indicate acceptance of the keypress.

Main Setup Screen

Main Setup Screen

SETUP CODE SCREEN

MICROC

LEARN

SLEEP CLEAR

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.
5. 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.
6. 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.

Device Setup Screen



- 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 once 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. When you reset any device key to its original power-on default setting, it will automatically be saved at that setting. Resetting device keys will not affect your program codes or any Learned commands.
 8. 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.
 10. Press **CLEAR** on the Main Setup Screen to exit Setup Mode.

Learned Key Reference Pages

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

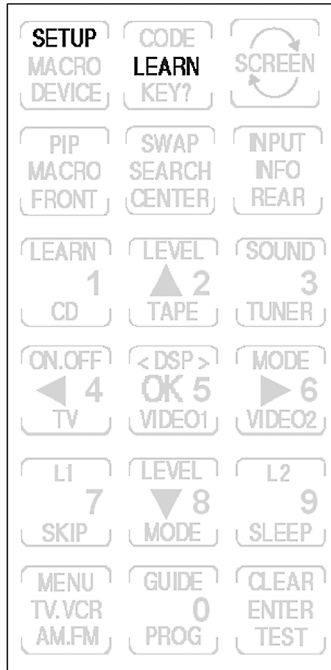
Device: _____

SETUP MACRO DEVICE	CODE LEARN KEY?	SCREEN
PIP MACRO FRONT	SWAP SEARCH CENTER	INPUT INFO REAR
LEARN 1 CD	LEVEL ▲ 2 TAPE	SOUND 3 TUNER
ON.OFF ◀ 4 TV	< DSP > OK 5 VIDEO1	MODE ▶ 6 VIDEO2
L1 7 SKIP	LEVEL ▼ 8 MODE	L2 9 SLEEP
MENU TV.VCR AM.FM	GUIDE 0 PROG	CLEAR ENTER TEST

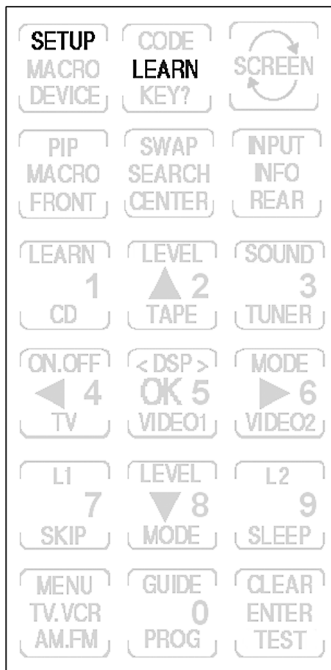
Device: _____

SETUP MACRO DEVICE	CODE LEARN KEY?	SCREEN
PIP MACRO FRONT	SWAP SEARCH CENTER	INPUT INFO REAR
LEARN 1 CD	LEVEL ▲ 2 TAPE	SOUND 3 TUNER
ON.OFF ◀ 4 TV	< DSP > OK 5 VIDEO1	MODE ▶ 6 VIDEO2
L1 7 SKIP	LEVEL ▼ 8 MODE	L2 9 SLEEP
MENU TV.VCR AM.FM	GUIDE 0 PROG	CLEAR ENTER TEST

Device: _____



Device: _____



Learn Commands

Learning Tips

Before transferring commands from your original remote to the RCU900, check out these useful tips on Learning.

1. Make sure you are using fresh batteries in both the RCU900 and the original remote.
2. 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).
3. Point the top of the original remote at the base of the RCU900 so the IR LED on the original remote is in line with the RCU900 Learning sensor, located at the bottom of the remote.
4. The remotes should be positioned two to three inches apart.
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.
6. 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.
7. 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.
8. 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**, or **AUDIO** keys).
9. 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 RCU900 touchscreen to include certain functions from your original remote that were not embedded in the preset code.

Your RCU900 has the ability to learn and store commands from your original remotes under the mode of your choice. The RCU900 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 RCU900 can learn the commands for one TV remote, one VCR remote, one DVD remote, etc.).

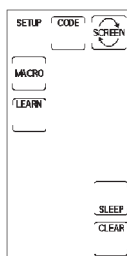
Once you have set your Key Label Options and have taught your RCU900 any additional commands from the original remotes, use the chart on the previous page to enter your customized options for each mode.

Learn Commands

Now you're ready to have your RCU900 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 RCU900 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 RCU900 so the IR LED on the original remote is in line with the RCU900 Learning sensor, located at the bottom of the remote. The remotes should be positioned two to three inches apart.
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.
4. 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 RCU900 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** **MACRO** and **LEARN** keys are also shown.
7. Press and release the key on the RCU900 to be taught. (Remember: You can switch between the screens displayed by pressing the LCD **SCREEN** key.) The LED indicator light blinks once to indicate acceptance of each keypress.
8. Now, press and hold the key on the original remote until the LED indicator blinks once and the touchscreen shows Learn Setup Screen 2. This process takes 2-3 seconds to complete.
9. 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.

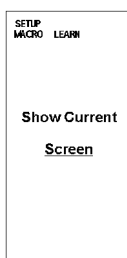
Main Setup Screen



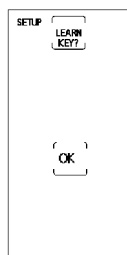
Device Setup Screen



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.
13. Press LCD **CLEAR** on the Main Setup Screen to exit Setup Mode.

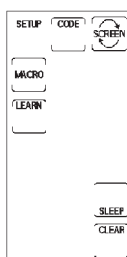
Note: Learned keys will beep twice when pressed if keypress beep is turned on.

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:

1. 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 release the LCD **LEARN** key. The LED indicator light blinks 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 RCU900 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.
6. Press LCD **CLEAR** on the Main Setup Screen to exit Setup Mode.

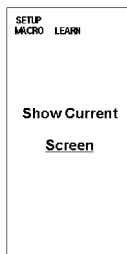
Main Setup Screen



Device Setup Screen



Learn Setup Screen 1



Master Clear

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

1. 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.
- Press LCD **CLEAR** on the Main Setup Screen to exit Setup Mode.

Smart Macro Key Operations

Your RCU900'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

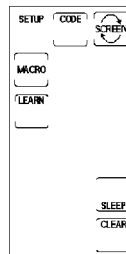
Example of Programming a Macro

- Turn on the TV and set it to channel 3.
- Turn on the satellite receiver and set it to channel 57.
- Turn on the VCR.
- Now you're ready to record your favorite satellite program with just a press of a button.

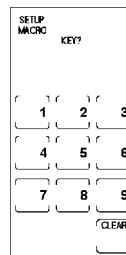
To program a Smart Macro, follow these steps:

- Gather all your original remotes that contain functions you would like to add to a Smart Macro.
- Place the first original remote in the Learning position. Point the top of the original remote at the base of the RCU900 so the IR LED on the original remote is in line with the RCU900 Learning sensor, located at the bottom of the remote. The remotes should be positioned two to three inches apart.
- 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 **MACRO** key. The LED indicator light blinks once to indicate acceptance of the keypress.
- 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 once to indicate acceptance of the keypress.
- The touchscreen now shows the Macro Setup Screen 2. Press and release the LCD **LEARN KEY?**. The LED indicator light blinks once to indicate acceptance of the keypress.

Main Setup Screen



Macro Setup Screen 1



Macro Setup Screen 2



Program a Smart Macro (continued)

8. 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 RCU900 blinks once. This process takes 2-3 seconds to complete.
9. 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.

11. 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.

12. Once you are finished programming the Macro, press and release the LCD **OK** key.
13. The touchscreen returns to the Main Setup Screen.
14. Press LCD **CLEAR** on the Main Setup Screen to exit Setup Mode.
15. The Smart Macro programming is complete.
16. If you program all 20 keys into a Smart Macro, the Macro is automatically stored after the 20th learned command is completed.

Execute a Smart Macro

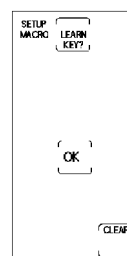
1. Press key to activate LCD touchscreen.
2. Press and release the **MACRO** key.
3. Press and release programmed Macro key number you wish to execute.

20

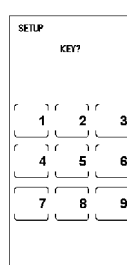
Macro Setup Screen 3



Macro Setup Screen 4



Digit Setup Screen



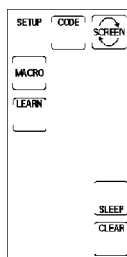
- If keypress beep is enabled, you will hear a series of beeps as the Macro executes. The number of beeps will correspond to the number of Learned commands within the Macro.

Delete a Smart Macro

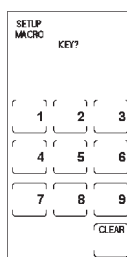
To delete a previously programmed Smart Macro, follow these steps:

- 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.
- Release the **SETUP** key.
- Press and hold the LCD **MACRO** key until Macro Setup Screen 7 is shown. The LED indicator light blinks once 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 once to indicate acceptance of the keypress.
- The Macro deletion is complete and the Main Setup Screen will be shown.
- Press LCD **CLEAR** on the Main Setup Screen to exit Setup Mode.
- 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



Macro Setup Screen 7



Sleep Timer

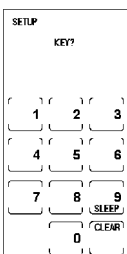
Love to go to sleep with the TV on in the background? With the RCU900, you can program your TV to turn off after a period of time (from one to 99 minutes). The LCD **SLEEP** key is used to set the Sleep Timer and is only available in the main TV Mode. The **SLEEP** key is not displayed for any mode other 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.

Sleep Setup Screen



Method 1 (continued)

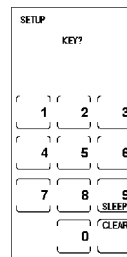
- Press and release the numeric keys indicating the number of minutes (01-99) you wish to set on the Sleep Timer. The LED indicator light blinks once to indicate acceptance of the keypress and the screen returns to normal operation.
- The Sleep Timer is now set.
- When using the Sleep Timer feature, 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 once to indicate acceptance of the keypress.
- 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 once to indicate acceptance of the keypress and the screen returns to normal operation.
- The Sleep Timer is now set.
- When using the Sleep Timer feature, leave the remote pointing towards the TV with an unobstructed path.

Sleep_Setup_Screen



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 once 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 Audio Volume Punch-Through

Your RCU900'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 Audio unit. Any other selection (VCR, DVD, 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 Audio Modes take any Volume/Mute keypress commands from the 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 Audio option is chosen as the Punch-through device, all modes take any Volume/Mute keypress commands from the Audio code.

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

1. 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.
3. 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.
4. The default volume control is now set for the mode you have chosen.

VCR Punch-through

The RCU900 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 RCU900 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:

1. 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 **MUTE** key on the rubber keypad for approximately 5 seconds until the LED blinks and the Main Setup Screen is displayed.

Keypress Beep Feature (continued)

4. Press LCD **CLEAR** on the Main Setup Screen to exit Setup Mode.
5. The Keypress Beep feature is now turned on or off, depending on the previous state it was in.

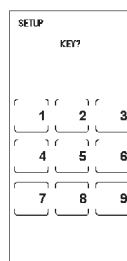
LCD Touchscreen Display Time

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:

1. 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 release the **SETUP** key again. 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 RCU900 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 once to acknowledge the keypress.
5. 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.
7. Press LCD **CLEAR** on the Main Setup Screen to exit Setup Mode.

Digit Setup Screen



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 backlighting 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 Backlight 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 RCU900 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:

1. 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 again for approximately 5 seconds until the LED indicator light turns off.
4. 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 of Terms



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▲/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.

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 KEYS & OK KEY

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 anything when you touch it or when you press the SETUP or LIGHT keys.	<p>A) Replace the batteries with four new AA alkaline batteries.</p> <p>B) Check to make sure batteries are properly installed.</p>
The remote does not operate your audio or video devices.	<p>A) Try all code programming procedures with all the codes from the appropriate part of the Code List.</p> <p>B) Make sure the remote is in the correct mode for the device you are attempting to control (TV,VCR,DVD, etc.).</p>
You have problems programming a TV/VCR combination unit.	A) Try the VCR code for your 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 channels on your TV.	A) If the original remote requires the ENTER key to be pressed after a channel is selected, press the LCD ENTER key on the RCU900 to select the channel.
The LCD OK key is not responding.	A) Try using the LCD MENU , GUIDE , or ENTER key to make the selection.
The Learning or Smart Macro processes cannot be completed successfully.	<p>A) Replace batteries in the RCU 900 and the remote from which you are trying to learn.</p> <p>B) The distance between the remotes should be approximately two to three inches.</p> <p>C) Do not conduct the Learning process near an incandescent lamp.</p> <p>D) Memory capacity is full (20 Learned commands for each of nine modes).</p> <p>E) Original remote might not be compatible with Learning procedure.</p>

Code List

Televisions

Abex	.185
Acme	.021,050
ADA	.013
ADC	.006,002
Admiral	.001,173
Adventura	.174
Aiko	.058
Aiwa	.195,196
Alleron	.046
Amark	.020
Amtron	.053
Akai	.002
Amstrad	.189
Anam National	.003,025,042,053,193
AOC	.004,005,007,009,014,132,156,175
Archer	.020
Audiovox	.053
Bang & Olufsen	.190
Belcor	.004
Bell & Howell	.000,001,049
Bradford	.053
Broksonic	.136,147
Brokwood	.004
Candle	.004,008,009,174
Capehart	.175
Celebrity	.002
Centurion	.009
Cetronic	.042
Citizen	.001,004,008,009,042,053,058,105,109,177
Clairtone	.014
Classic	.042
Colortyme	.004,009,010
Concerto	.004,009
Concierge	.121
Contec/Cony	.012,013,014,042,053
Craig	.042,053
Crown	.042,053
Curtis Mathes	.000,001,004,009,015,031,049,105,109
CXC	.042,053
Daewoo	.004,005,009,017,018,019,042,058, .082,083,085,097,100,126,127,130,138
Daytron	.004,009
Dimensia	.000,031
Dumont	.004,121
Dynasty	.042
Elektra	.001
Electroband	.002,014
Electrohome	.003,004,009,022,133
Emerson	.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	.004,009
Fisher	.013,049,050,180,209
Fujitsu	.046,197
Funai	.042,053,046
Futuretec	.042,053
GE	.000,003,004,009,022,031,044,052,054, .055,087,092,103,107,125,164,181
Gibraltar	.004,121
Goldstar	.004,005,009,056,057,133,155,156,172
Grundig	.046,053
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