



RCA451

Universal Remote Control Owner's Manual

Manual del Propietario (parte posterior)

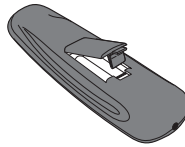
4-Component Universal Remote

Congratulations on your purchase of this four-component universal remote. Your universal remote controls up to four electronic components and makes juggling remote controls a thing of the past. You can program your RCA brand universal remote to operate most models of infrared, remote-controlled components manufactured after 1990. (See the enclosed Code Lists for a complete list of brands.) And, not only is your remote easy to program, it's easy to operate, too. **We've specially designed this remote with big buttons to give you total control...at the touch of your fingertips.**

Tip: The four-component universal remote is already programmed to operate most RCA, GE and PROSCAN branded TVs, DVD players and satellite receivers. Just press the corresponding key—**VCR** for a VCR player; **DVD** for a DVD player; **TV** for a television; **SAT-CBL** for a satellite receiver or a cable box.

Battery Installation and Information

Your universal remote requires two AAA Alkaline batteries (batteries may or may not be included, depending on model). To install the batteries:



1. Remove the battery compartment cover.
2. Insert the batteries, matching the batteries to the (+) and (-) marks inside the battery compartment.
3. Press and push the battery cover back into place.

Note: Reprogramming may be required after batteries are replaced.

Battery Precautions:

- Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium) batteries.
- Always remove old, weak or worn-out batteries promptly and recycle or dispose of them in accordance with Local and National Regulations.

Battery Saver

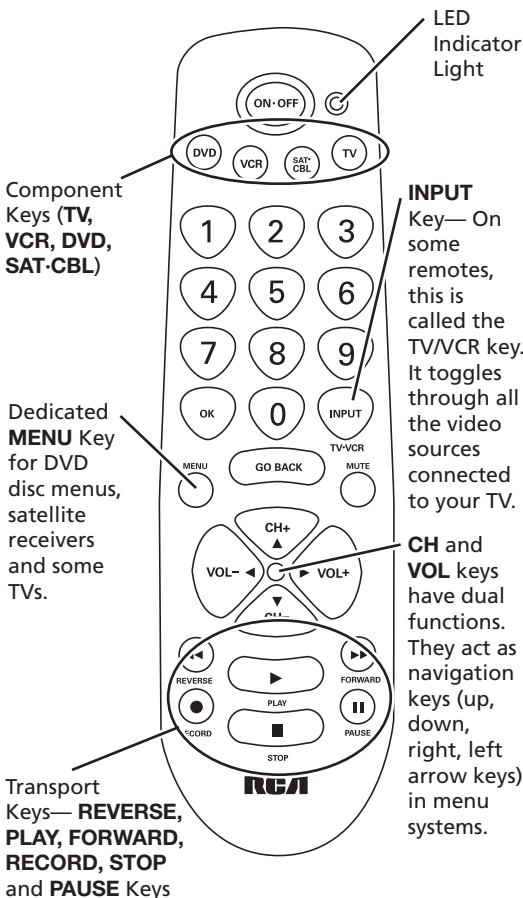
Your universal remote control saves battery power by automatically turning off if any key is pressed for more than 60 seconds. This saves your batteries should your remote get stuck in a place where the keys remain depressed, such as between sofa cushions.

Programming the Remote

Your universal remote can operate a variety of brands of components. In order for your universal remote to control your components, you need to program the remote with the codes that match the components (See Code Lists enclosed). These codes enable the remote to communicate with your components. Each brand and each component has its own "language," and, by programming the correct codes into your remote, you tell the remote to "speak the same language" as your components.

There are two methods you can use to program your remote control to operate your components: Direct Code Entry and Manual Code Search and Entry. Most components can be programmed in one of these ways. Try them in the order listed.

In order to control combo TV/VCR or TV/DVD units, you must program both the **TV** key and the **VCR** or **DVD** key. Once programmed successfully, the **TV** key controls the TV functions on your unit, and the **VCR** or **DVD** key controls the VCR or DVD functions. There is a specific section in the Code Lists for combo units. The codes in this section should be tried first, using Direct Code Entry on the **TV** and **VCR** or **DVD** keys. If this is unsuccessful, follow the normal programming methods for both the **TV** and the **VCR** or **DVD** keys.



Actual model may vary from picture shown

Programming Methods

Direct Code Entry

To program your universal remote to control your components using the Direct Code Entry Method, follow the steps below.

1. Manually turn on the component you want the remote to control (TV, VCR, DVD, satellite receiver or cable box).
2. Locate the enclosed Code Lists. Find the list for the component you wish to program. Find your component's brand. You will see a listing of four-digit codes for each brand. If your brand isn't listed, use the Manual Code Search method to program the remote control. (Refer to the Manual Code Search method.)



3. Press and hold the component key (**TV, VCR, DVD, SAT-CBL**) you wish to program. The LED indicator light turns on and remains on. If you release the component key any time during the Direct Code Entry procedure, the LED indicator light blinks four times, and the process is exited.



4. While holding down the component key, consult the Code Lists for the four-digit code that corresponds to your component's brand and use the number keys (0-9) on the keypad to enter it. While you are pressing the numbers, the LED indicator light turns off.



5. After the fourth number is entered, the LED indicator light turns on. At this time, release the component key. If the LED indicator light turns off, you have entered a valid code and have followed the correct procedure for Direct Code Entry.

If you enter a code number that is not in the Code Lists or you do not follow all of the steps for Direct Code Entry, the LED indicator light blinks four times when the component key is released. This is an indication that a programming error has occurred. In that case, repeat the Direct Code Entry process from step 3 and try the next code listed.

Tip: Throughout the programming of each key, be sure to keep the remote pointed at the IR sensor of the component you are currently programming the remote to control.



6. To confirm that the component key is programmed with the correct code for maximum functionality, test the component. Attempt to control a variety of the component's functions with the remote. If some of the features of your components do not work, try programming the remote with a different code in the list until you find the code that allows the majority of your component's functions. Different codes can provide different levels of functionality.

Manual Code Search and Entry

If your component's brand isn't listed in the Code Lists, or if you have tried all of the codes for your brand and the remote does not operate your component, try the Manual Code Search. This Code Search method cycles through all of the codes in the Code Lists in the event that your component's code is listed under another brand.

The Manual Code Search method may take a long time because the remote searches through all of the codes in its memory for the code that operates your component. Therefore, if your brand is listed in the Code Lists, first try the Direct Code Entry method.



Tip: To exit without saving at any point in the Manual Code Search, press and release the **GO BACK** key.

1. Manually turn on the component you want the remote to control (TV, VCR, DVD, satellite receiver or cable box).

Note: If you press an invalid key during the Manual Code Search, the remote does not respond and the LED indicator light does not blink. If you do not press a valid Manual Code Search key (**TV, VCR, DVD, SAT-CBL, ON-OFF, GO BACK**), the search times out after two minutes. When the search times out, the LED indicator light blinks four times and turns off. The last programmed code under that component key is retained.



2. Press and hold the component key (**TV, VCR, DVD, SAT-CBL**) you wish to program. The LED indicator light turns on and remains on.



3. While holding the component key down, press and hold the **ON-OFF** key. The LED indicator light turns off.



4. After holding down both keys for three seconds, the LED indicator light turns back on.

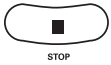
5. Release both keys. The LED indicator light remains on.

Tip: Throughout the programming of each key, be sure to keep the remote pointed at the IR sensor of the component you are currently programming the remote to control.



Tip: Because there are so many codes, you may have to press the **ON-OFF** key many times—possibly up to 200 times.

6. Press and release the **ON-OFF** key repeatedly until your component turns off. Each time you press the **ON-OFF** key, the LED indicator light blinks, and the next code in the list is sent. This process continues until all of the codes in the Code Lists have been searched. If your component turns off, you have found the correct code. (If it cycles through and the LED indicator light blinks four times and turns off, all codes have been searched, the Manual Code Search method is exited.)



7. Once you have found the correct code, you must save the new code by pressing and releasing the **STOP** key. The LED indicator light turns off. You must press the **STOP** key to save the code or the correct code will not be stored!

8. Once you press the **STOP** key, the code is stored.

Testing the Code for Maximum Functionality

To confirm that the component key is programmed with the correct code for maximum functionality, it is necessary to test the component. If some of the features of your component do not work, different codes in the list can be tried until you find the code that allows the remote to control the majority of your component's functions. Different codes can provide different levels of functionality. Follow these steps to test for maximum functionality, if you have programmed your remote using the Manual Code Search and Entry Method.

1. Once the code has been stored (see Manual Code Search and Entry Method above), use the remote to attempt to control a variety of the component's functions. If the code that has been stored controls the majority of the component's functions, programming is complete. If the code stored does not give maximum functionality, you will want to try another code.
2. In that case, repeat the Manual Code Search and Entry Method from step 1. When the component turns off for the first time, do not press the **STOP** key, which would store the code. Instead, with the unit now off, continue to press the **ON-OFF** key repeatedly until the unit turns back on. Once the unit turns back on, you have found another code that operates the component. Press the **STOP** key.
3. Test the functionality again by attempting to control a variety of the component's functions. If the code that has been stored controls the majority of the component's functions, programming is complete. If the code stored does not give maximum functionality, you will want to try another code.
4. Repeat the Manual Code Search and Entry Method from step 1. Each time a code turns the component on or off, you have found a code that operates the remote and needs to be tested for maximum functionality. Continue through the code lists, cycling through the codes you have already tried, until you find one that offers maximum functionality.

Using the Remote to Control Your Components

Because this remote controls more than one component, you must first "tell" the remote which component you wish to operate. That means, if you wish to operate your TV, you must first press the **TV** key to put the remote in the TV Mode.

The remote stays in the chosen component mode (such as TV Mode) until you change it. If your remote is in TV Mode, you must change the mode in order to operate your DVD, VCR, satellite receiver or cable box. For example, if you are in VCR Mode, and you wish to turn off your TV, you must press the **TV** key first before pressing the **ON-OFF** key.

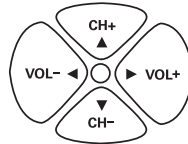
On-Screen Menus

Accessing and Selecting Menu Items

Today's advanced components use on-screen menus to help you navigate through all their features and functions. While this remote cannot access every menu system of every component model, it does offer some menu functionality. To use a component's on-screen menu system, you first have to put the remote in Menu Mode.



1. Press the component key whose menu you want to access.
2. Press the **MENU** key. The LED indicator light blinks, indicating you are in the Menu Mode.



3. Use the **VOL+/-** and/or **CH+/-** keys to navigate through the on-screen menu system.
4. To make a selection from the on-screen menu, press the **MENU** or **OK** key to select the highlighted item.

Tip: If the remote doesn't respond, check to see that the LED indicator light is still blinking. Remember: the LED indicator light times out after 20 seconds. If this happens, just press the **MENU** key again, and then retry your selection.

Exiting a Menu Mode

The remote automatically times out of Menu Mode after 20 seconds of inactivity (no keys being pressed). At that time, the remote clears the displayed menu from the TV.

If you want to exit the Menu Mode yourself, press the corresponding component key on the remote (**TV**, **VCR**, **DVD**, **SAT-CBL**). The LED indicator light turns off and the remote is automatically set to control the component whose key you just pressed to leave the Menu Mode. For example, if the remote is in DVD Menu Mode, press the **DVD** key to exit the Menu Mode. The remote is now out of Menu Mode and is set to control the DVD. To control another component, simply press the component key for the unit you wish to control (TV, VCR, satellite receiver or cable box).

Troubleshooting

Problem: Remote does not operate your component.

- You must put the remote in the correct mode by pressing the corresponding component key (**TV**, **VCR**, **DVD**, **SAT-CBL**) so the remote knows which component you want to operate.
- Remove any obstacles between the remote and the component. Make sure to aim the remote at the IR sensor on the component.
- Make sure the batteries are fresh and are properly installed. (See Battery Installation.) Replace the batteries with two new AAA batteries, if necessary. Reprogramming may be required.
- Reset the remote. Remove the batteries, then press and hold the number **1** key on the remote for several seconds to reset the microprocessor inside the remote. Release the number **1** key, reinstall the batteries, and press the **ON-OFF** key. If the LED indicator light turns on, reprogram the remote and try again. If it doesn't light up, replace the batteries with new ones.

Problem: Remote can't be programmed to operate a component.

- If you are testing the remote after you have entered the code, you may be too far away from the component or at a wrong angle. This remote uses IR (infrared) technology to communicate with components. The remote sends the code, and the component's IR sensor reads the code. Therefore, there must be an unobstructed path between the remote and the IR sensor on the component. Move closer and make sure you point the remote at the component (VCR player when programming the **VCR** key; DVD when programming the **DVD** key; TV when programming the **TV** key; cable box or satellite receiver when you're programming the **SAT-CBL** key).
- If you've used the Direct Entry programming method to enter the codes for your brand and the unit is still not functioning properly, try the Code Search method. (See Code Search.)
- To control combo TV/VCR or TV/DVD units, you must program both the **TV** key and the **VCR** or **DVD** key. Once programmed successfully, the **TV** key controls the TV functions on your unit, and the **VCR** or **DVD** key controls the VCR or DVD functions. There is a specific section in the Code Lists for combo units. The codes in this section should be tried first using Direct Code Entry on the **TV** and **VCR** or **DVD** keys. If this is unsuccessful, follow the normal programming methods for both the **TV** and the **VCR** or **DVD** keys.
- Make sure the batteries are fresh and are properly installed.

Problem: The remote is not performing commands properly.

- You must put the remote in the correct mode by pressing the corresponding component key (**TV**, **VCR**, **DVD**, **SAT-CBL**) so the remote knows which component you want to operate.
- Make sure component is "ready" (e.g., DVD player has disc loaded; VCR has tape loaded, etc).
- You may have pressed an invalid key for the mode the remote is in.
- If you're trying to turn on an RCA, GE or PROSCAN component, press the component key (**TV**, **VCR**, **DVD**, **SAT-CBL**) instead of the **ON-OFF** key.
- If you're trying to change channels, try pressing the **OK** key after entering the channel number as this is a requirement of certain models and brands.
- There is a possibility that a programmed code may only be able to control some of your component features (e.g., only turns a component on and off). To confirm that the component key is programmed with the correct code for maximum functionality, test the component. Attempt to control a variety of the component's functions with the remote. If some of the features of your components do not work, try programming the remote with a different code in the list (using the Direct Entry Method) until you find the code that allows the remote to control the majority of your component's functions. Different codes can provide different levels of functionality.

Problem: LED indicator doesn't turn on when you press a key.

- You must put the remote in the correct mode by pressing the corresponding component key (**TV**, **VCR**, **DVD**, **SAT-CBL**) so the remote knows which component you want to operate.
- You may have pressed an invalid key for the mode the remote is in.
- Make sure the batteries are fresh and are properly installed. (See Battery Installation.) Replace the batteries with two new AAA batteries, if necessary. Reprogramming may be required.

Problem: The VCR won't record.

- Make sure the remote is in VCR Mode.
- Make sure the tape is properly loaded in the VCR.
- Make sure the tape is not write-protected. If the safety tab is removed the tape is write-protected, and you cannot record onto that tape.

Problem: Remote doesn't change channels on component.

- You must put the remote in the correct mode by pressing the corresponding component key (**TV**, **VCR**, **DVD**, **SAT-CBL**) so the remote knows which component you want to operate.
- Press the OK key after you enter a channel number.
- Remove any obstacles between the remote and the component. Make sure to aim the remote at the IR sensor on the component.

Problem: Component menu doesn't appear on the TV screen.

- Make sure you have connected your component to your TV properly. (See your components' Owner's Manuals for proper connection procedures.)
- You must put the remote in the correct mode by pressing the corresponding component key (**TV**, **VCR**, **DVD**, **SAT-CBL**) so the remote knows which component you want to operate.
- Menu access isn't supported for all brands. If that's the case, you'll need to use your original remote control to access menu functions for these components.

For more information, please visit www.rca.com.

Care and Maintenance

- Keep the remote dry. If it gets wet, wipe it dry immediately.
- Use and store the remote only in normal temperature environments.
- Handle the remote gently and carefully. Don't drop it.
- Keep the remote away from dust and dirt.
- Wipe the remote with a damp cloth occasionally to keep it looking new.
- Modifying or tampering with the remote's internal components can cause malfunction and invalidate its warranty.

Limited Lifetime Warranty

Audiovox Electronics Corporation (the "Company") warrants to you the original retail purchaser of this product that should it, under normal use and conditions, be proven defective in material or workmanship during its lifetime while you own it, such defect(s) will be repaired or replaced (at the Company's option) without charge for parts and repair labor. To obtain repair or replacement within the terms of this Warranty, the product is to be delivered with proof of warranty coverage (e.g. dated bill of sale), specification of defect(s), transportation prepaid, to the Company at the address shown below.

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