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INTRODUCTION

The Radioshack 6-in-1 Remote Powered by Kameleon is a revolutionary universal remote control that uses Universal Electronics' Kameleon Technology. Moreover, it allows you to consolidate the clutter of all of your original remote controls into one easy-to-use product. Advanced features include:

- **Kameleon Technology** – dynamic menu screens that respond to device selection and illuminate only active keys
- **My System Mode** – a custom mode that groups the most-often-used keys together for operating convenience in one mode
- **Macros** – for instant activation of favorite key sequences
- **Learning** – to capture unique functions from your devices' original remote controls
- **Direct Code Setup** – for easy device programming with setup codes
- **Innovative Code Search** – allows setup of your devices without looking up codes
- **Favorite Channel Scan** – for easy channel surfing of favorite channels
- **Volume Lock** – to assign volume controls to individual devices or to one global device
- **Extensive Code Library** – largest and most efficient group of IR remote control codes for virtually every current brand and make
- **Upgradeability** – our unique telephone upgrade system ensures your remote control always has the latest setup codes when adding new devices in the future

After installing four (4) new AA alkaline batteries (not included, see next page), you can immediately use the unit to control a RCA DVD Player, a Pioneer CD Player and Audio Receiver, and a RCA TV, VCR, and Satellite Receiver. To control other brands than the default ones, see *Programming Device Control* on page 7.



HOW KAMELEON™ WORKS

Kameleon™ allows wireless controllers to dynamically change their appearance and

functionality, to match the home entertainment environment. Moreover, this technology provides unparalleled ease-of-use and superior control by delivering a uniquely intuitive, graphical interface that intelligently illuminates only the active keys.

The Radioshack 6-in-1 Remote uses Kameleon technology to provide the versatility of an LCD remote control with the feel of a traditional push button unit. The result is a stunning, bright display with engaging animation and touch-sensitive graphics for the user.

The remote control includes convenient *Menu Driven* programming. The displays are divided into two types of interactive screens: *Device Menus* for normal remote control use, and *Programming Menus* for feature setup. Acting like its namesake, Kameleon changes the *Device Menu* for the device being selected. For example, selecting TV displays a main menu that contains channel selection, volume control, and a keypad. However, selecting a DVD player still displays a menu with those same keys as the TV, but now navigation keys and transport controls are added for the DVD device.

Several devices have additional menus that can be accessed using **SCREEN** (see *Device Menu Screens*, starting on page "Device Menu Screens" on page 24. For example, TV has two menus: a main menu with keys for a general purpose TV, a second menu screen that adds navigation keys and removes **INPUT, +100, PIP** and **TRANSPORT** keys. Depending on desired features, a user has the flexibility to use any menu screen that works best for the selected device.

Animated key graphics also provided enhanced operational feedback, so the user can easily see what mode is active and when the commands are communicating with a device. The end result of Kameleon technology is a simple, elegant, and intelligent way of organizing a large number of remote control keys for six different devices in a relatively small case.



INSTALLING BATTERIES

BATTERY USE AND SAFETY

- Dispose of old batteries promptly and properly.
- Do not burn or bury batteries.
- Use only new batteries of the required size.



RadioShack 6-IN-ONE REMOTE POWERED BY KAMELEON

- Do not mix old and new batteries, different types of batteries (e.g., standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.
- If you do not plan to use the remote control for an extended period, remove the batteries. They can leak chemicals that can destroy electronic parts.

ABOUT BATTERY LIFE

As with all battery-operated devices, battery life will vary depending on use, including frequency and duration of key presses on the Kameleon screen. Battery life may be extended by:

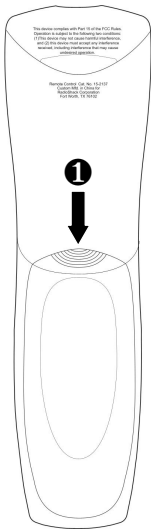
- reducing the brightness level of the display screen (see “Adjusting Brightness” on page 6).
- disabling the vibration switch (see “Setting the Vibration Switch” on page 7)

The two bottom IR indicator segments will flash when the batteries in your Kameleon are running low.

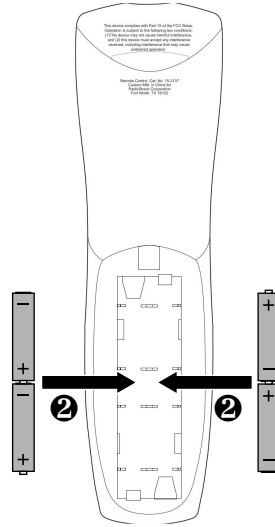
INSTALLING BATTERIES

Your remote requires four AA batteries (not supplied) for power.

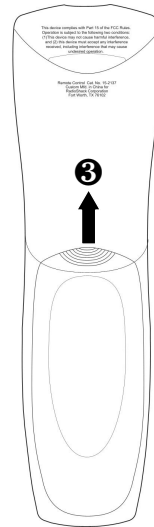
1. Push down on the indent marks on the battery door (located on the back of the remote) and lift off the cover.



2. Place the AA batteries in the compartment as indicated by the polarity symbols (+ and -) marked inside.



3. Align the cover with the compartment opening and replace it.



4. If batteries are inserted correctly, the display will turn on and show all keys after any key is pressed.

NOTE: The two bottom segments of the IR indicator flash when the batteries are running low.

NOTE: The batteries will need replacement if one of the following conditions occurs:

1. Pressing any key turns on all keys and icons.
2. The remote control no longer operates and the display flashes on and off continuously.

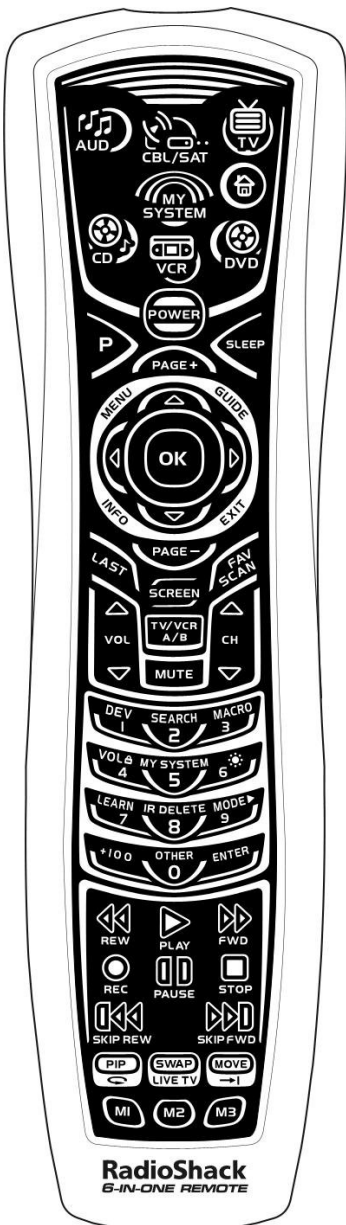


FEATURES AND FUNCTIONS

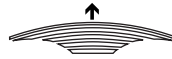
Use the illustration below to locate features on the RadioShack 6-in-1 Remote Powered by Kameleon and then refer to the *Key Charts* (starting on the right) to learn how they function.

NOTE: *The illustration shows all remote control keys. In actual operation, only active keys used by the selected device are displayed and non-active keys are hidden.*

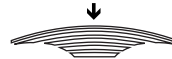
To find out what type of devices can be controlled by each device key after programming, see the "Device Table" on page 6.



KEY CHARTS.



When a key is pressed, the **IR Segment** will animate. Outgoing animation (see arrows) indicates the remote control is sending IR signals to a selected device.



Incoming animation (see arrow) indicates the remote control is receiving IR signals from a device being learned (see *Using Learning* on page 17)



During programming, the bottom IR segment flashes to confirm setup actions.



Press a **Device Key** once to select a desired home entertainment device to control (e.g., **DVD**). When selected, the **Device Key** will animate to indicate it is currently active. Also see the "Device Table" on page 6.

After programming, press the **My System** key once to select the home theater mode (see "Using My System Mode" on page 11).



During programming, the **HOME** key will appear. Use it to exit the program screen or to return to the last-selected device key screen.



Press **POWER** once to turn a selected device on or off.



Use **P** to enable the programming screen.



Press **SLEEP** to turn on the sleep function. See "Setting the Sleep Timer" on page 14.



In the **My System** and **CBL/SAT** modes, use **PAGE+** or **PAGE-** to page up or down through channels in the program guide.



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Use the navigation keys as follows:

Use **MENU** to display your device's main menu.

Use **GUIDE** to display your device's program guide, or setup or program menu.

Use **INFO** to display the current channel and program information.

Use **EXIT** to exit from your device's guide or menu.

Use the cursor keys (▲,▶,▼,◀) to navigate through the program guide and menu screens.

In the CD mode, use ▲(or ▼) to select the next (or previous) disc or navigate through menus.

In the AUD mode, use ▲(or ▼) to raise (or lower) rear channel volume or navigate through menus and use ◀or ▶ to balance audio left (or right).

Use **OK** to choose options from your device's menu or guide.



In the **CBL/SAT**, **VCR**, **My System**, and **TV** modes, use **FAV SCAN** to scan through all channels, or after programming, to scan through 10 favorite channels.



VOL



Use **VOL ▲**(or **VOL ▼**) to raise (or lower) the sound volume for the selected device (also see *Changing Volume Lock* on page 13).

Press **MUTE** once to turn the sound off or on.



In the **TV**, **VCR**, or **DVD** mode, use **TV/VCR** to switch the TV's input to view TV or video programs.

In the **AUD** mode, use **TV/VCR** to switch between audio inputs.

In the **CBL/SAT** mode use **A/B** to change your cable boxes A/B or Bypass function, or input on your SAT.



CH



OR

SKIP



Use **CH ▲**(or **CH ▼**) to select the next higher (or lower) channel.



In all modes except **AUDIO**, use the **Number Keys** (1 – 9 and 0) to directly select channels (e.g., **009** or **031**) or enter numbers. In the **AUDIO** mode, use the **Number Keys** to directly select inputs 1 – 9 and 10.



In all modes except **CD** and **DVD**, press **LAST** once to recall the last channel.



In the **CD**, **TV**, **AUD**, and **VCR** modes, use **SCREEN** to view additional key screens for the selected device.

For certain brands in all modes except **CD** and **AUDIO**, press **ENTER** once after entering numbers (if required on your original remote control).



Note: Press below the title to activate a desired program.

In the program mode, use the **Program Keys** to personalize the remote control as follows:

Use **DEV** to program your device codes. See “Programming Device Control” on page 7.

Use **SEARCH** as an alternate way to set up a device by searching available codes. See “Searching For Your Code” on page 9.

Use **MY SYSTEM** to create a custom mode with favorite remote control keys from different devices in your home theater system. See “Using My System Mode” on page 11.

Use **VOL (Volume Lock)** to set volume controls for individual or global device use. See “Changing Volume Lock” on page 13.

Use **MACRO** to program a series of commands on five available macro keys. See “Using Macros” on page 15.

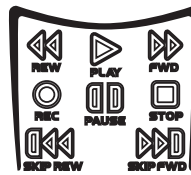


Use **Brightness** to adjust the brightness level of the EL display. See “Adjusting The Display” on page 6.

Use **IR Learn** and **IR Delete** to add and delete key functions learned from your original device remote controls. See “Using Learning” on page 17.

Use **MODE** to reassign an unused device key to control a second device. See “Reassigning Device Keys” on page 19.

Use **OTHER** to program other functions. See the *Table of Contents* on page 1 for sections on *Checking The Codes*, *Programming Favorite Channel Scan*, or *Upgrading*.



In the all modes, use the **Transport Keys** to control the device’s transport if that function is available.

In all modes, press **REC** twice to record a program on your device (if function is available).



In the **TV** mode, use the **PIP** keys to control the following Picture-In-Picture features (if available) on your TV:

Use **PIP** to switch the Picture-In-Picture feature on or off.

Use **SWAP** to switch images and sound between the main and window pictures.

Use **MOVE** to move the window picture to different places in the main picture.



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In the **CBL/SAT**, **VCR**, or **DVD** modes, use the **PVR/DVR Keys** as follows:

Use the replay key (on the left-hand side) to instantly replay the last 7 seconds of a program you are watching (if the feature is available).

Use the advance key (in the center) to skip past commercials or other uninteresting scenes (if the feature is available).

In the **DVD** or **CD** mode, use the advance key to change discs.

Use **LIVE TV** to switch between live TV and video programming (if the feature is available).



After programming, press **Macro Key 1 – 3** once to run a macro (see “Using Macros” on page 15).

DEVICE TABLE

NOTE: Please refer to the table below when performing the instructions in “Programming Device Control” on page 7.

After programming, the Radioshack 6-in-1 Remote will be able to control the following types of devices:

DEVICE KEY	CONTROLS THESE DEVICES
	Audio Amplifier or Audio Receiver
	Cable Box (Converter), Satellite Receiver, or Satellite/PVR Combo
	Television, TV/VCR Combo, TV.VCR.DVD Combo, or TV/DVD Combo
	CD Player or CD Recorder

DEVICE KEY	CONTROLS THESE DEVICES
	VCR or PVR (DVR)
	DVD Player or Home-Theater-in-a-Box Device



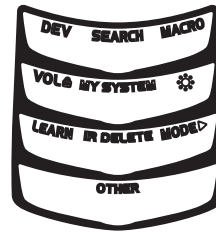
ADJUSTING THE DISPLAY

Your new remote has several ways to adjust the display for your comfort and best use.

ADJUSTING BRIGHTNESS

The Radioshack 6-in-1 Remote has five levels of brightness adjustment and is set to the middle one at the factory. To increase or decrease the brightness, perform the following steps:

1. Press and hold **P** until the bottom IR segment flashes twice. The **Program Keys** will appear.



NOTE: If the display turns off because of inactivity, you will need to start the programming sequence again by repeating this step.

2. Press (**Brightness**) once. The **Brightness** programming screen will appear:



- To increase brightness, press one or more times.

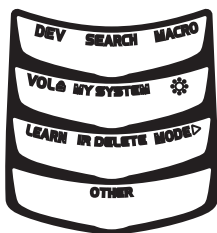
- To decrease brightness, press ▼ one or more times.
- When the desired brightness is achieved, press **HOME** twice to exit programming and return to the last-selected device menu screen.

NOTE: Otherwise, to program other features, press **HOME** only once to return to the **Program Keys**.

SETTING THE VIBRATION SWITCH

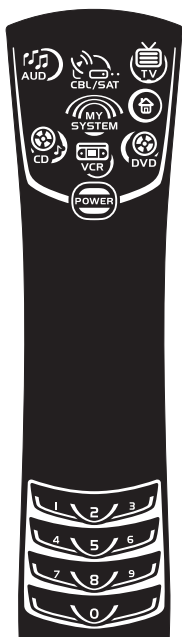
The Radioshack 6-in-1 Remote can be set to turn the display on when you pick it up, before you even press a button. Your new remote comes preset with vibration turned on. To turn vibration sensitivity off, perform the following steps:

- Press and hold **P** until the bottom IR segment flashes twice. The **Program Keys** will appear.



NOTE: If the display turns off because of inactivity, you will need to start the programming sequence again by repeating this step.

- Press **OTHER** once. The **Other** programming screen will appear:



- Using the **Number Keys**, enter **9 8 5**. The bottom IR segment flashes four times if you are turning it OFF and twice if you are turning it ON.
- Press **HOME** twice to exit programming and return to the last-selected device menu screen.

To turn vibration sensitivity off, repeat these steps.



PROGRAMMING DEVICE CONTROL

The Radioshack 6-in-1 Remote is preset at the factory to operate an RCA TV, VCR, DVD Player, or Satellite Receiver, Pioneer CD Player, and Audio Receiver.

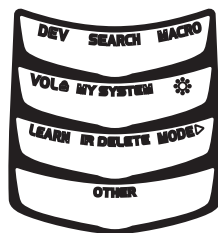
To control devices other than the default brands, perform the following steps; otherwise skip this section:

NOTE: To control a DVD Player/VCR Combo, perform the instructions in "Programming DVD Player/ VCR Combo Control" on page 8.

- Turn on a desired device (e.g., VCR or DVD player) and, if applicable, insert media (e.g., cassette or disc).

NOTE: Please read steps 2 through 9 completely before proceeding. Before starting step 2, review the "Manufacturer's Codes" (starting on page 33). Brands are listed alphabetically in order of most popular ones first. Highlight or write down the devices and the codes you wish to program.

- Press and hold **P** until the bottom IR segment flashes twice. The **Program Keys** will appear.



NOTE: If the display turns off due to inactivity, the remote control will exit programming and return to the last-selected device menu screen. To start programming again, repeat this step.

NOTE: To stop programming at any time, press **HOME** once to return to the **Program Keys** screen. Press **HOME** once more to exit completely.

- Press **DEV** once. The **Device Setup** programming screen will appear:



- Press a device key once (i.e., **CBL/SAT**, **CD**, **TV**, **DVD**, **AUDIO**, or **VCR**). The selected device key will animate.

NOTE: Please refer to the "Device Table" on page 6 when choosing a device key for programming.

- Use the *Manufacturer's Codes* (starting on page 33) to locate the type of device and brand name and then use the **Number Keys** to enter the first four-digit code for your device. If performed correctly, the bottom IR segment flashes twice.

NOTE: If the bottom two IR segments displayed one long flash instead, a mistake has occurred. Try entering the same code again.

- Aim the remote control at the device and press **POWER** once. The device should turn off. If it does not, repeat steps 5 and 6, trying each code for your brand until you find one that works. If it still doesn't work, try "Searching For Your Code" on page 9.
- If the code works, press **OK** once. The bottom IR segment will flash twice.
- If desired, repeat steps 4 through 7 for each device you want to control. If finished, press **HOME** twice to exit programming and return to the last-selected device menu screen.

- For future reference, write down each working device code in the following boxes:

CBL/SAT Code:

--	--	--	--

Brand Name: _____

CD Code:

--	--	--	--

Brand Name: _____

DVD Code:

--	--	--	--

Brand Name: _____

TV Code:

--	--	--	--

AUDIO Code:

--	--	--	--

Brand Name: _____

VCR Code:

--	--	--	--

Brand Name: _____

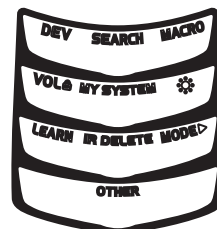


PROGRAMMING DVD PLAYER/ VCR COMBO CONTROL

- Turn on the DVD Player/VCR Combo and insert a DVD.

NOTE: Please read steps 2 through 10 completely before proceeding. Before starting step 2, review the "Setup Codes For DVD Player/VCR Combos" (on page 38). Brands are listed alphabetically in order of most popular ones first. Highlight or write down the devices and the codes you wish to program.

- Press and hold **P** until the bottom IR segment flashes twice. The *Program Keys* will appear.



- Press **DEV** once. The *Device Setup* programming screen will appear:



- Press **DVD** once. The key will animate.
 - Use the *Setup Codes For DVD Player/VCR Combos* (on page 38) to locate the brand name and then use the **Number Keys** to enter the first four-digit code for your device. If performed correctly, the bottom IR segment will flash twice.
- NOTE:** If the bottom IR segment displayed one long flash instead, an error has occurred. Try entering the same code again.
- Aim the remote control at the device and press **POWER** once. The device should turn off.
 - If the code works, press **OK** once. The bottom IR segment will flash twice.
 - (Optional) If you've located a setup code that works, but it also has a separate VCR code as listed on page 38, you'll also need to program it into the remote control to access VCR controls as follows:

- Press **VCR** once.
- Using the **Number Keys**, enter the four digit VCR code for your DVD Player/VCR Combo. If performed correctly, the bottom IR segment will flash twice.
- Press **OK** once. The bottom IR segment will flash twice.

NOTE: If a separate VCR setup code is not listed, you can use the VCR key to program a

separate VCR device or another device (see "Reassigning Device Keys" on page 19).

- To exit programming, press **HOME** twice. The display will return to the last-selected device menu screen.
- For future reference, write down the working DVD Player/VCR Combo code in the following boxes:

DVD Player/VCR Code:

--	--	--	--

Brand Name: _____

VCR Code (if used):

--	--	--	--

Brand Name: _____



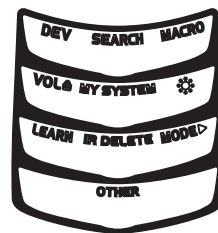
SEARCHING FOR YOUR CODE

If your device does not respond to the remote control after trying all codes listed for your brand, or if your brand is not listed at all, try searching for your code.

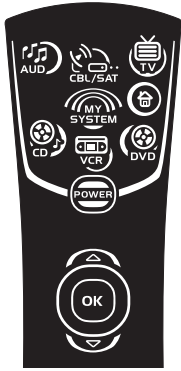
NOTE: Before performing a code search for a CD or DVD player or a VCR, turn on the device and insert the required media.

For example, to search for a code for your TV:

- Press and hold **P** until the bottom IR segment flashes twice. The **Program Keys** will appear.



- Press **SEARCH** once. The *Search Codes* programming screen will appear:



- Press a device key once (e.g., **TV**). The selected device key will animate. The device's *Main Menu* screen will appear with the **HOME** key still displayed.
- Press **POWER** once to select it as the search test function. The *Search Programming* screen will appear again.

NOTE: With **POWER** as the search test function, a "Power On" IR command will be sent to the device each time a test code is sent. As a confirmation, the IR segments will display an outgoing animation.

NOTE: If your device or its original remote control does not have a Power key, select a different test function in this step (e.g., **CH+**, **VOL+**, **Play**, etc.).

- Aim the remote control at the device (e.g., **TV**) and press **▲** one or more times. Stop when a working code performs the test function selected in step 4. If desired, use **▼** to try a previous code.

NOTE: In the search mode, the remote control will send IR codes from its library to the selected device, starting with the most popular code first.

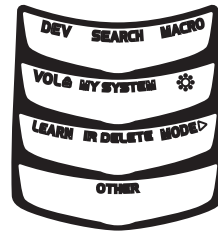
- To lock in the code, press **OK** once. The bottom IR segment flashes twice.
- To search for codes of your other devices, repeat steps 3 to 6, but use the appropriate device key and test function key for the device you are searching for.
- To exit programming, press **HOME** twice. The display will return to the last-selected device menu screen.



CHECKING THE CODES

If you have set up the remote control using the *Searching For Your Code* procedure (on the left), you may need to find out which four-digit code is operating your equipment. For example, to find out which code is operating your TV:

- Press and hold **P** until the bottom IR segment flashes twice. The **Program Keys** will appear.



- Press **OTHER** once. The *Other* programming screen will appear:



- Using the **Number Keys**, enter **9 9 0**. The bottom IR segment flashes twice.
- Press a desired device key once (i.e., **CBL/SAT**, **CD**, **TV**, **DVD**, **AUDIO**, or **VCR**). The selected device key will animate.
- To view the code for the first digit, press **1** once. Count the number of times the bottom IR segment flashes (e.g., three flashes = 3) and write down the number in leftmost box in the TV code boxes on page 8.

NOTE: If a code digit is "0", the bottom IR segment will not flash.

6. Repeat step 5 three more times for remaining digits. Use **2** for the second digit, **3** for the third digit, and **4** for the fourth digit. Write down the code digits in the remaining TV code boxes on page 8.

*NOTE: If you enter an invalid number (e.g., 7) or key (e.g., **Play**), the bottom IR segment will display one long flash and return to the "Other" programming screen. Start again with step 2 above.*

7. To check for codes of other devices, repeat steps 4 to 6, but substitute the appropriate device key for each device you are checking. Write down the device's code digits in the appropriate code boxes on page 8.
8. To exit programming, press **HOME** twice. The display will return to the last-selected device menu screen.



USING MY SYSTEM MODE

The Radioshack 6-in-1 Remote includes a custom Home Theater mode. After the **My System** key is programmed, it will allow you to access four groups of remote control keys without having to change device modes.

CONTROL ORGANIZATION

ABOUT CONTROL GROUPS

For Home Theater programming, the remote control's keys are grouped by type of control into the following four control groups:

Video Playback Group: Transport Controls (**Rewind, Play, Fast Forward, Stop, Pause, Record, Skip Forward, and Skip Back**)

Volume Controls Group: **VOL▲, VOL▼, and MUTE**

Channel Controls Group: **CH▲, CH▼, TV/VCR, Keypad (0–9), FAV Scan, ENTER, and LAST**

Menu Controls Group: **Cursor Controls (Up, Down, Left, and Right), OK, PAGE+, PAGE-, MENU, INFO, GUIDE, and EXIT**

ABOUT DEVICE MODES

Moreover, the above *Control Groups* can be used in all modes.

FACTORY DEFAULT SETTINGS

At the factory, the *Control Groups* are assigned the following modes as default settings:

Transport Group **DVD**

Volume Controls Group: **AUDIO**

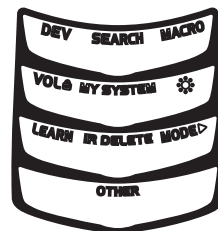
Channel Controls Group: **CBL/SAT**

Menu Controls Group: **CBL/SAT**

If the default settings fit your needs, you can skip programming this mode. Otherwise, perform the steps in the following section to assign device modes to the *Control Groups*.

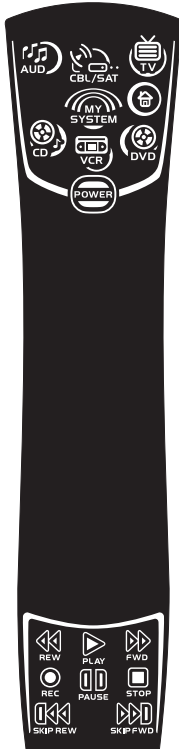
PROGRAMMING MY SYSTEM MODE

1. Press any device key once (i.e., **CBL/SAT, CD, TV, DVD, AUDIO, or VCR**). The selected device key will animate.
2. Press and hold **P** until the bottom IR segment flashes twice. The **Program Keys** will appear.



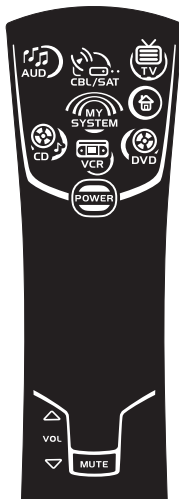
RadioShack 6-IN-ONE REMOTE POWERED BY KAMELEON

3. Press **MY SYSTEM** once. The *Transport* programming screen will appear:



NOTE: If a device key is animated, it is assigned to this function group. To continue programming the Home Theater mode, you must select a device key, even if it is the same one that is currently animated.

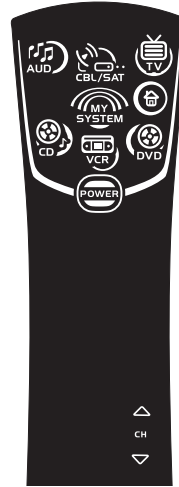
4. To assign a mode to the *Transport* group, press a device key once (i.e., **CBL/SAT, CD, TV, DVD, AUDIO, VCR**). Then the *Volume Controls* programming screen will appear:



NOTE: If a device key is animated, it is assigned to this function group. To continue

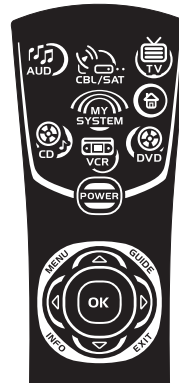
programming the Home Theater mode, you must select a device key, even if it is the same one that is currently animated.

5. To assign a mode to the *Volume Controls* group, press a device key once. Then the *Channel Controls* programming screen will appear:



NOTE: If a device key is animated, it is assigned to this function group. To continue programming the Home Theater mode, you must select a device key, even if it is the same one that is currently animated.

6. To assign a mode to the *Channel Controls* group, press a device key once. Then the *Menu Controls* programming screen will appear:



NOTE: If a device key is animated, it is assigned to this function group. To continue programming the Home Theater mode, you must select a device key, even if it is the same one that is currently animated.

7. To assign a mode to the *Menu Controls* group, press a device key once. Since *My System* programming is now complete, the **Program Keys** will appear again.

- To exit programming, press **HOME** once. The display will return to the last-selected device menu screen.



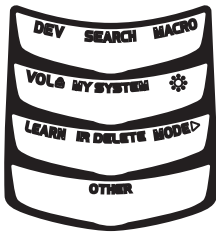
CHANGING VOLUME LOCK

The Radioshack 6-in-1 Remote is set at the factory for independent volume control of each selected device.

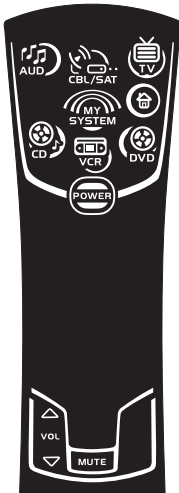
However, you may change the Volume Lock setting to *Global Volume Lock* so that a device's volume will be locked to one mode (e.g., to control TV volume in all other modes). After that, if desired, you can perform *Individual Volume Unlock* on a selected device to set its volume control for independent operation.

LOCKING VOLUME CONTROL TO ONE MODE (GLOBAL VOLUME LOCK)

- Press and hold **P** until the bottom IR segment flashes twice. The **Program Keys** will appear.



- Press **VOL** once. The *Volume Lock* programming screen will appear:



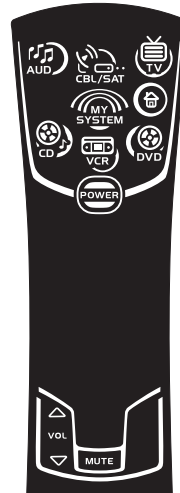
- Press a device key once (i.e., **CBL/SAT, CD, TV, DVD, AUDIO, VCR**) where you want the volume controls locked to. The bottom IR segment will flash twice and the **Program Keys** will appear again.
- To exit programming, press **HOME** once. The display will return to the last-selected device menu screen.
- Now, when you press **VOL▲**, **VOL▼**, or **MUTE**, the selected device's volume will be controlled, regardless of the mode selected.

UNLOCKING VOLUME CONTROL FOR A SINGLE DEVICE (INDIVIDUAL VOLUME UNLOCK)

- Press and hold **P** until the bottom IR segment flashes twice. The **Program Keys** will appear.



- Press **VOL** once. The *Volume Lock* programming screen will appear:



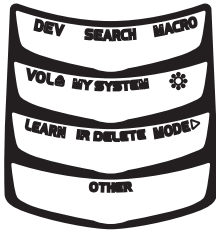
- Press **VOL▼** once. Then press a device key once (i.e., **AUX, CBL/SAT, CD, TV, DVD, AUDIO, VCR**, or **PVR**) where you want the volume controls unlocked. The bottom IR segment will flash four times and the **Program Keys** will appear again.
- If desired, repeat steps 2 through 3 (of this section) for each device that you want volume to be unlocked.



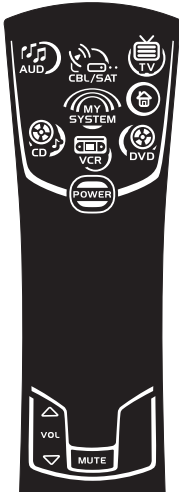
- To exit programming, press **HOME** once. The display will return to the last-selected device menu screen.
- Now, after you select a device that has volume unlocked, pressing **VOL▲**, **VOL▼**, or **MUTE** will control the device's volume only in its own mode.

UNLOCKING ALL VOLUME CONTROL (RESTORING DEFAULT SETTING)

- Press and hold **P** until the bottom IR segment flashes twice. The **Program Keys** will appear.



- Press **VOL** once. The *Volume Lock* programming screen will appear:



- Press **VOL ▲** once. The bottom IR segment will flash four times and the **Program Keys** will appear again.
- To exit programming, press **HOME** once. The display will return to the last-selected device menu screen.
- Volume will again be independently controlled according to its default states for all programmed devices.



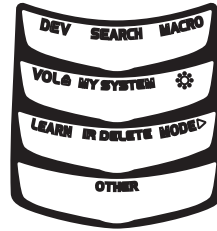
SETTING THE SLEEP TIMER

The Radioshack 6-in-1 Remote includes a sleep timer that lets you set your devices up to be turned off after a specified time, even if the device does not have a sleep function.

ENABLING THE SLEEP TIMER

If the **SLEEP** key does not operate your device's built-in sleep timer or activate on the remote, you must enable the sleep timer for that mode:

- Press a mode key (i.e., **TV**, **VCR**, **CBL/SAT**, **DVD**, **CD**, **AUD**).
- Press and hold **P** until the bottom IR segment flashes twice. The **Program Keys** will appear.



- Press **OTHER** once. The *Other* programming screen will appear:



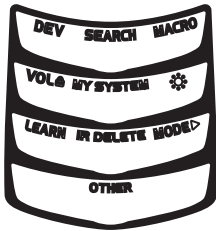
- Using the number keys, enter **9 7 0**. The IR segment will flash twice, confirming Sleep is enabled.

The sleep timer is now enabled for that device. Repeat these steps for each device where you want to use the sleep timer.

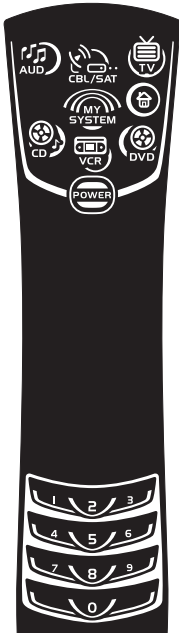
DISABLING THE SLEEP TIMER

If you prefer to use the device's sleep timer, rather than the RadioShack 4-in-One Remote's, you may disable the sleep timer for that mode:

1. Press a mode button (i.e., **TV**, **VCR**, **CBL/SAT**, **DVD**).
2. Press and hold **P** until the bottom IR segment flashes twice. The **Program Keys** will appear.



3. Press **OTHER** once. The *Other* programming screen will appear:



4. Using the number keys, press **9 7 0**. The top IR segment will blink four times to show that the sleep timer is no longer available.

The sleep timer is now disabled for that device. Repeat these steps for each device where you want to prevent the use of the sleep timer.

SETTING THE SLEEP TIMER

If you want to set any device to turn off after a specified time:

1. Press a mode key (**AUD**, **CD**, **TV**, **VCR**, **DVD**, **CBL/SAT**).

2. Press the **Sleep** key until the desired time is set. The timer increases by 15 minutes each time you press the key, up to 60 minutes.

When the timer counts down to 0, the remote sends a "power off" signal to the selected device.

The sleep timer will work even if you have reassigned the mode key to a different mode (see "Reassigning Device Keys" on page 19).

If you turn off the device yourself, the sleep timer turns off as well.



USING MACROS

The RadioShack 6-in-1 Remote includes three **Macro Keys**, **M1**, **M2**, and **M3**. Each one can be set up to perform a repetitive, time-consuming operation with the press of a single key.

A macro can be used to control a home theater operation, to set a favorite channel, or for other multiple functions you would like to control with one key press. Moreover, each **Macro Key** can hold up to 15 key presses total.

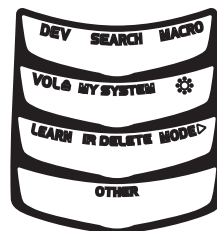
NOTE: Programming a new macro over an existing one will erase the original macro.

PROGRAMMING A FAVORITE CHANNEL MACRO

With so many channels available on your cable or satellite system, you can program a macro that directly selects a favorite channel with one key press.

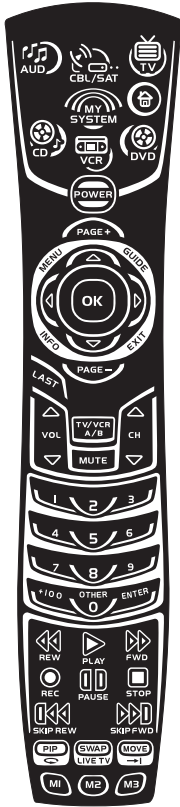
For example, let's assume your favorite cable programs are on channel 71. Use the following instructions to program a macro for direct access of this channel:

1. Press and hold **P** until the bottom IR segment flashes twice. The **Program Keys** will appear.



RadioShack 6-IN-ONE REMOTE POWERED BY KAMELEON

2. Press **MACRO** once. The *Macro* programming screen will appear:



3. Press an open **Macro Key** (e.g., **M1, M2, M3**). The last-selected device menu screen, including **HOME**, will be displayed.
4. Enter a desired macro sequence of up to 15 key presses. For this example, press **TV** once, then enter **0 3** for the TV's channel number. Next, press **CBL/SAT** once, then enter **0 7 1** for the Cable Box's channel number.

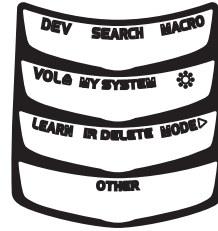
NOTE: If there are more than 15 key presses in the sequence, the bottom IR segments will display a long flash denoting an error. The display will return to the last-selected device menu screen. To program the macro, start again with step 3.

5. To save the macro, press and hold **P** until the bottom IR segment flashes twice. The **Program Keys** will appear again.
6. Exit programming by pressing **HOME** once. The display will return to the last-selected device menu screen.

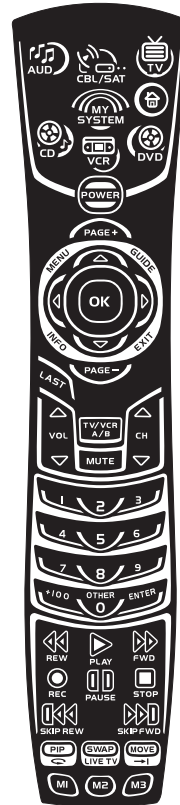
7. Now, if you aim the remote control at the devices selected in step 4 and press the programmed **Macro Key** once, the TV will turn on and tune to channel 3. Then, the Cable Box will turn on, and tune to channel 071.

CLEARING A MACRO

1. Press and hold **P** until the bottom IR segment flashes twice. The **Program Keys** will appear.



2. Press **MACRO** once. The *Macro* programming screen will appear:



3. Select the **Macro Key** to be cleared and press it once. The last-selected device menu screen will be displayed.
4. Press and hold **P** until the bottom IR segment flashes twice. The **Program Keys** will appear again.

- To exit programming, press **HOME** once. The display will return to the last-selected device menu screen.

USING LEARNING

The Radioshack 6-in-1 Remote includes a *Learning* feature so you can add functions that are unique to your home entertainment devices (e.g., VCR Tracking Up or Down). However, there are some considerations:

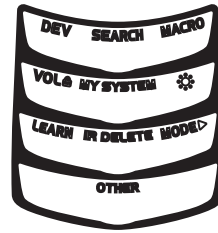
LEARNING PRECAUTIONS

- Your original remote controls must be in working order for learning to work properly.
- Learned keys are mode specific, so each one can store a unique function for each mode.
- Learned keys can be used in macros (see *Using Macros* on page 15).
- Do not use the following keys for learning: **Device Keys**, **M1–M3**, **P**, **FAV Scan**, **SCROLL**, **PRESET**, **PVR VOD**, or **Record (●) Key**.
- Learning capacity is approximately 16 to 25 keys, depending on the code being learned.
- If both learned and keymoved functions are assigned to the same key, the last programmed function will be stored.
- A learned function cannot be used as a source for Keymover (see *Using Keymover* on page 19).
- Certain device codes are not learnable including multi-frequency types, some high frequency ones, and other unusual formats.
- For optimum learning, avoid high levels of ambient light such as natural sunlight or energy-efficient fluorescent lights.

NOTE: Please have your original remote controls handy before programming learning. Be sure to press each teaching key within 5 seconds of the previous entry. Otherwise, the Radioshack 6-in-1 Remote will exit the programming mode.

PROGRAMMING A LEARNING KEY

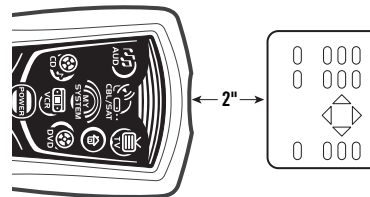
- Press and hold **P** until the bottom IR segment flashes twice. The **Program Keys** will appear.



- Press **IR Learn** once. The *IR Learn* programming screen will appear:



- Press a device key once (i.e., **AUX**, **CBL/SAT**, **CD**, **TV**, **DVD**, **AUDIO**, **VCR**, or **PVR**) to assign a mode for learning. The selected device menu screen, including **HOME**, will be displayed.
- Place the Radioshack 6-in-1 Remote head-to-head (about 2" apart) from your original remote control. Also locate the key (on your original remote control) that will serve as the teaching function.



- On the Radioshack 6-in-1 Remote, select and press a key where the learned function will be stored. The IR segments will display an incoming animation, continue for three revolutions, and then the entire display will turn off.

After the display is off, press and hold the teaching key (on your original remote control) until the display (on the Radioshack 6-in-1 Remote) turns on again. The bottom IR segment will flash twice when the code is successfully captured.

NOTE: If the bottom IR segment displays one long flash, a learning error has occurred. Try repeating this step again until a successful capture occurs. If the function is still not

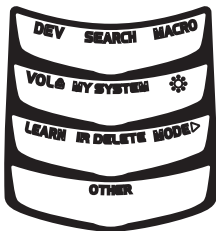


captured, press HOME twice to exit programming and review the “Learning Precautions” on the previous page. If needed, also see “Troubleshooting” on page 23. After review, start programming again at step 1.

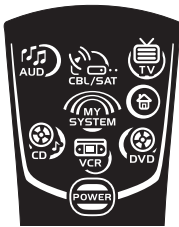
6. To learn other functions, repeat steps 3 through 5 as desired.
7. To exit programming, press **HOME** twice. The display will return to the last-selected device menu screen.

DELETING A SINGLE LEARNING KEY

1. Press and hold **P** until the bottom IR segment flashes twice. The **Program Keys** will appear.



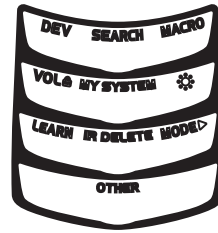
2. Press **IR Delete** once. The **IR Delete** programming screen will appear:



3. Press a device key once (i.e., **CBL/SAT, CD, TV, DVD, AUDIO, VCR**) for the mode where the learned key to be deleted resides. The selected device menu screen, including **HOME**, will be displayed.
4. Press the learned key to be deleted twice. Upon deletion, the bottom IR segment will flash twice as confirmation. The **Program Keys** will appear again.
5. If desired, repeat steps 2 through 4 to delete another learned key.
6. Exit programming by pressing **HOME** once. The display will return to the last-selected device menu screen.

DELETING ALL LEARNED KEYS IN A SPECIFIC MODE

1. Press and hold **P** until the bottom IR segment flashes twice. The **Program Keys** will appear.



2. Press **IR Delete** once. The **IR Delete** programming screen will appear:



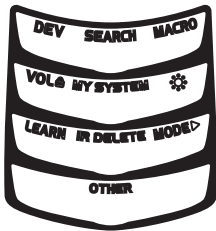
3. Press a device key once (i.e., **CBL/SAT, CD, TV, DVD, AUDIO, VCR**) for the mode where the learned keys to be deleted reside. The selected device menu screen, including **HOME**, will be displayed.
4. Press the same device key (as in step 3) once. Upon deletion, the bottom IR segment will flash twice as confirmation. The **Program Keys** will appear again.
5. If desired, repeat steps 2 through 4 to delete other learned keys from another mode.
6. Exit programming by pressing **HOME** once. The display will return to the last-selected device menu screen.




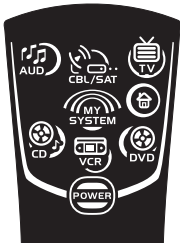
REASSIGNING DEVICE KEYS

The Radioshack 6-in-1 Remote can be set to control a second device. For example, to control a TV, a cable box, and *two* DVD players, you can reassign the unused **AUD** key to operate the second DVD player as follows:

1. Press and hold **P** until the bottom IR segment flashes twice. The **Program Keys** will appear.



2. Press **MODE**  once. The *Mode Mover* programming screen will appear:



3. For the source mode, press a device key once (i.e., **CBL/SAT**, **CD**, **TV**, **DVD**, **AUDIO**, **VCR**). For this example, press **DVD** once. The selected device menu screen, including **HOME**, will be displayed.

NOTE: Only one device can be assigned to an unused device key at a time.

4. For the destination mode, press a device key once (i.e., **CBL/SAT**, **CD**, **TV**, **DVD**, **AUDIO**, **VCR**). For this example, press **CD** once. Upon reassignment, the bottom IR segment will flash twice as confirmation. The **Program Keys** will appear again.
5. For this example, the **CD** key is now ready to be set up to control your second DVD player. See "Programming Device Control" on page 7. If desired, repeat steps 2 to 4 to reassign another device.
6. Exit programming by pressing **HOME** once. The display will return to the last-selected device menu screen.





USING KEYMOVER

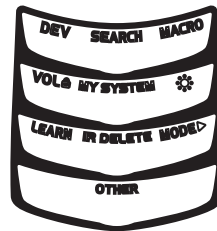
The Radioshack 6-in-1 Remote includes a *Keymover* feature that allows you to map (or copy) keys from one mode (i.e., source mode) to another mode (i.e., destination mode).

*NOTE: Do not use any of the Device Keys as a source or destination key. Also, do not use **POWER** as a destination key.*

PROGRAMMING KEYMOVER


For example, if your DVD player does not have volume control, you can map those keys (i.e., **VOL** , **VOL** , and **MUTE**) from the TV mode to DVD mode as follows:

1. Press and hold **P** until the bottom IR segment flashes twice. The **Program Keys** will appear.



2. Press **OTHER** once. The *Other* programming screen will appear:



3. Using the **Number Keys**, enter **9 9 4**. The bottom IR segment will flash twice.
4. For the source mode, press a desired device key once (i.e., **AUX**, **CBL/SAT**, **CD**, **TV**, **DVD**, **AUDIO**, **VCR**, or **PVR**). For this example, press **TV** once. The selected source device menu screen, including **HOME**, will be displayed.
5. For the source key, press a key to be moved once. For this example press **VOL**  once.



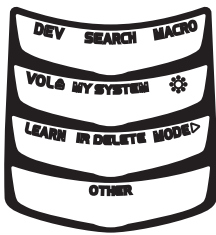
RadioShack 6-IN-ONE REMOTE POWERED BY KAMELEON

- For the destination mode, press a desired device key once (i.e., **AUX**, **CBL/SAT**, **CD**, **TV**, **DVD**, **AUDIO**, **VCR**, or **PVR**). For this example, press **DVD** once. The selected destination device menu screen, including **HOME**, will be displayed.
- For the destination key, press a key to be moved once. For this example press **VOL▲** once. Upon keymoving, the bottom IR segment will flash twice as confirmation. The **Program Keys** will appear again.
- Repeat steps 2 through 7 two more times to map the remaining volume control keys, substituting **VOL▼** and **MUTE** as source and destination keys in steps 5 and 7.
- Exit programming by pressing **HOME** once. The display will return to the last-selected device menu screen.

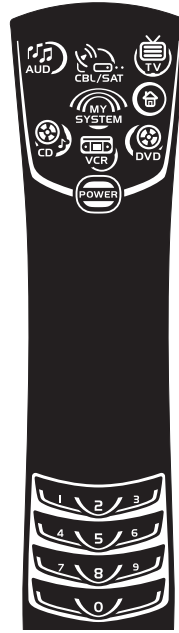
Upon completion of the above procedure, you can now use your Radioshack 6-in-1 Remote to control the TV's volume and mute in the DVD mode, as well as in the TV mode.

RESTORING A SINGLE KEYMOVED KEY

- Press and hold **P** until the bottom IR segment flashes twice. The **Program Keys** will appear.



- Press the destination mode once where the keymoved key is stored. Then press **OTHER** once. The *Other* programming screen will appear:



- Using the **Number Keys**, enter **9 9 4**. The bottom IR segment will flash twice.
- Press the destination mode once where the keymoved key is stored. Then press the destination key twice. Upon key restoration, the bottom IR segment will flash twice as confirmation. The **Program Keys** will appear again.
- If desired, repeat steps 1 through 4 to restore another key.
- Exit programming by pressing **HOME** once. The display will return to the last-selected device menu screen.

RESTORING ALL KEYMOVED KEYS IN A SINGLE MODE

- Perform steps 1 through 3 of *Programming Keymover* on the previous page.
- Press the destination mode twice where the keymoved keys are stored. Upon key restoration, the bottom IR segment will flash twice as confirmation. The **Program Keys** will appear again.
- Exit programming by pressing **HOME** once. The display will return to the last-selected device menu screen.



USING CHANNEL SCAN

In the **CBL/SAT** or **TV** mode, use the **FAV SCAN** key to start a 3-second scan of all channels. If programmed, use the **FAV SCAN** key to scan only your favorite channels to view a desired channel (see *Programming Favorite Channel Scan* below).

1. Press **CBL/SAT** or **TV** once. The bottom IR segment flashes once.
2. Press **FAV SCAN** once. The IR segments will display outgoing animation as each channel is changed.
 - If *Favorite Channel Scan* has been set up, scanning of favorite channels will start and cycle through stored channels for 3 minutes or until stopped by pressing any key.
 - If *Favorite Channel Scan* has not been set up, scanning will start with the current channel, then proceed to the next channel up and cycle through all channels for 3 minutes or until stopped by pressing any key.
3. To stop scanning channels at any time, press any key once.

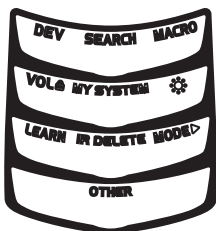


PROGRAMMING FAVORITE CHANNEL SCAN

In the **CBL/SAT** or **TV** mode, you can store a list of up to 10 favorite channels, in any order, that will be immediately scanned when **FAV Scan** is pressed (see *Using Channel Scan* above).

NOTE: *Favorite channels can only be programmed for one mode. After programming, if **FAV Scan** is pressed while in another mode, the remote control will start a normal channel scan instead (if applicable to the selected device).*

1. Press and hold **P** until the bottom IR segment flashes twice. The **Program Keys** will appear.



2. Select a *Favorite Channel Mode* by pressing **CBL/SAT** or **TV** once. The bottom IR segment flashes once as the selected device key animates.
3. Press **OTHER** once. The *Other* programming screen will appear:



4. Using the **Number Keys**, enter **9 9 6**. The bottom IR segment will flash twice and display the *Favorite Channel* programming screen.

NOTE: *If the bottom IR segment display one long flash, an error has occurred. Try repeating this step.*

5. Using the **Number Keys**, enter a favorite channel number (e.g., **0 1 2**). Then press **P** once. The bottom IR segment will flash three times confirming your entry.

NOTE: *If the original remote control required pressing an Enter key to change the channel, also press the **ENTER** key after the channel number (e.g., **0 1 2 ENTER**).*

6. If desired, repeat step 5 for each channel to be stored, up to a total of 10 channels.

NOTE: *After storing 10 channels, the remote control will exit the *Favorite Channel* programming screen and again display the **Program Keys**.*

7. To exit programming with less than 10 favorite channels stored, press and hold **P** until the bottom IR segment flashes twice and then press **HOME** once. The display will return to the last-selected device menu screen.

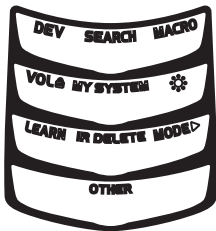


RESTORING FACTORY DEFAULT SETTINGS

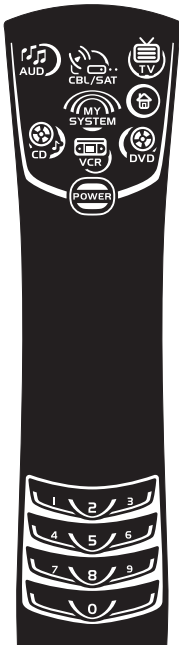
The Radioshack 6-in-1 Remote includes a *Setup Code Reset* program. You can use it to restore all your programmed codes to factory settings and delete all custom programming.

IMPORTANT: Executing this program will erase all code settings and all custom settings for Home Theater, Macros, Learned Keys, Reassigned Device Keys, Keymoved Keys, Favorite Channels, and all device settings.

1. Press and hold **P** until the bottom IR segment flashes twice. The **Program Keys** will appear.



2. Press **OTHER** once. The *Other* programming screen will appear:



3. Using the **Number Keys**, enter **9 7 7**. The bottom IR segment will flash twice, pause, and flash twice again to confirm the unit has been restored to factory default settings.
4. Exit programming by pressing **HOME** once. The display will return to the last-selected device menu screen.

CLEARING ALL CUSTOM PROGRAMMING

The Radioshack 6-in-1 Remote contains a *Custom Programming Reset* program. You can use it to remove all custom programming, except your setup codes and reassigned device keys.

IMPORTANT: Executing this program will erase all custom settings for Home Theater, Macros, Learned Keys, Keymoved Keys, and Favorite Channels.

1. Press and hold **P** until the bottom IR segment flashes twice. The **Program Keys** will appear.



2. Press **OTHER** once. The *Other* programming screen will appear:



3. Using the **Number Keys**, enter **9 8 0**. The bottom IR segment will flash twice, pause, and flash twice again to confirm the unit has been restored to factory default settings.
4. Exit programming by pressing **HOME** once. The display will return to the last-selected device menu screen.

TROUBLESHOOTING

PROBLEM:	No display at all times.	PROBLEM:	Favorite channel function does not work properly.
SOLUTION:	Replace batteries with four new AA alkaline batteries.	SOLUTION:	Some devices (e.g., Cable Boxes or Satellite Receivers) use two-digit channel numbers. During programming, press ENTER or OK once after entering a channel number (e.g., 0 2 ENTER for channel 2). See <i>Programming Favorite Channel Scan</i> on page 21.
PROBLEM:	The bottom two IR indicator segments are flashing.	PROBLEM:	Changing channels does not work properly.
SOLUTION:	Replace batteries with four new AA alkaline batteries.	SOLUTION:	If the original remote control required pressing ENTER to change channels, then press ENTER on the remote control after entering channel numbers.
PROBLEM:	No display when programming.	PROBLEM:	No remote control of volume.
SOLUTION:	Display has turned off due to inactivity. Start programming again and do not pause while performing instructions.	SOLUTION:	See <i>Changing Volume Lock</i> on page 13 to lock/unlock volume.
PROBLEM:	During programming, the bottom IR segment display a long flash.	PROBLEM:	bottom IR segment flashes when a key is pressed, but home entertainment device does not respond.
SOLUTION:	An invalid entry has occurred. Check the keys to be pressed and start program again.	SOLUTION:	Make sure the remote control is aimed at your home entertainment device and is not farther than 15 feet away.
PROBLEM:	How do I stop programming?	PROBLEM:	CH▲ and CH▼ do not work for your RCA TV.
SOLUTION:	Press HOME once to return to the <i>Program Keys</i> screen. Press HOME once more to exit completely.	SOLUTION:	Due to RCA design (1983-1987), only the original remote control will operate these functions.
PROBLEM:	The unit does not control home entertainment devices or commands are not working properly.	PROBLEM:	Pressing SCROLL one or times in CD, DVD, PVR or Home Theater mode, does not display a secondary menu screen.
SOLUTION:	Try all listed codes for the device brands being set up. Make sure they can be operated with an infrared remote control.	SOLUTION:	Even though SCROLL is displayed, for these modes, there are no additional menu screens.
PROBLEM:	Tried <i>Searching For Your Code</i> method and still could not find a working code.	PROBLEM:	Cannot program a macro onto M1 – M4 or POWER keys.
SOLUTION:	Perform <i>Restoring Factory Default Settings</i> on page 22. Then repeat <i>Searching For Your Code</i> on page 9.	SOLUTION:	Make sure the total number of key presses being programmed is less than 15.
PROBLEM:	Power macro does not execute.	PROBLEM:	For more help, or if your issue is not listed, visit www.radioshack.com or call 800-950-7044.
SOLUTION:	First, press the Home Theater key once, then press POWER once.		



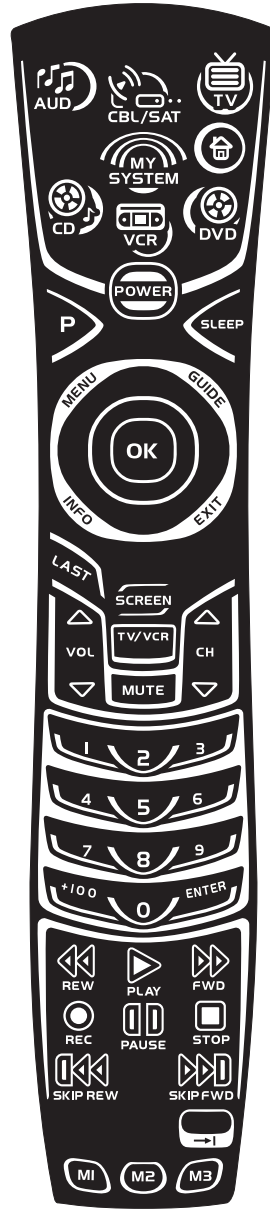
DEVICE MENU SCREENS

PROGRAMMING MAIN MENU



Pressing and holding **P** displays the *Programming Main Menu* screen. Use the **Program Keys** to program device control (**DEV SET**), code search (**SEARCH**), home theater mode (**THEATER**), volume lock (**VOL**), macros (**MACRO**), display brightness (*), function learning (**IR Learn** and **IR DEL**), device key reassignment (**MODE**), or other functions (**OTHER**). See the *Table of Contents* on page 1 to locate a section of interest.

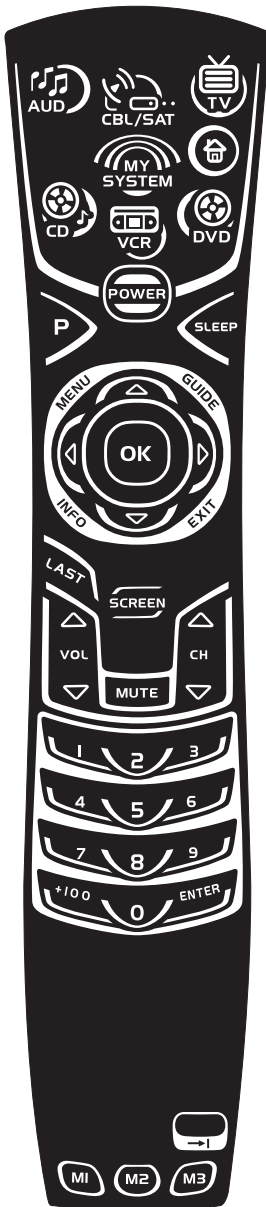
AUDIO MAIN MENU



Pressing **AUD** once displays the *AUDIO Main Menu* screen. After device programming, use these keys to remotely control your Audio Receiver's or Amplifier's volume and stations, select source inputs, operate transport functions on a built-in CD player (or DVD player, if HTIB device), and access menu, surround, or preset functions.

Pressing **SCREEN** once will display the secondary *AUDIO* menu.

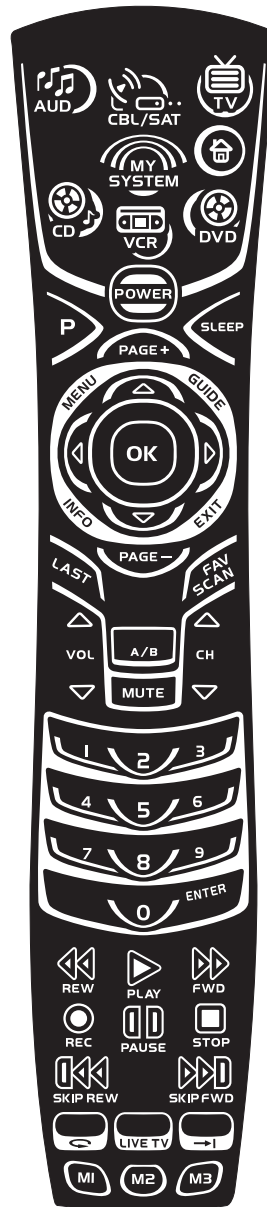
AUDIO MENU



Pressing **SCREEN** once (on the *AUDIO Main Menu*, as shown on the previous page) displays the *AUDIO Menu* screen. Use these keys to remotely control your Audio Receiver's or Amplifier's volume, stations, and surround functions.

Pressing **SCROLL** once more returns the display to the *AUDIO Main Menu* screen (as shown on the previous page).

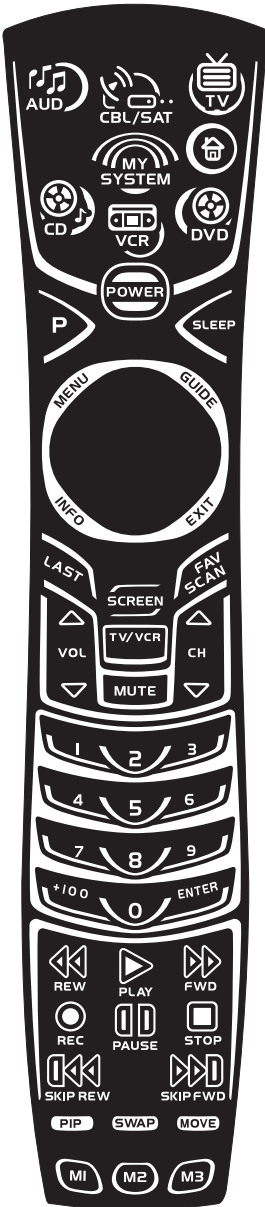
CBL/SAT MAIN MENU



Pressing **CBL/SAT** once displays the *CBL/SAT Main Menu* screen. After Cable Box or Satellite Receiver programming, use these keys to remotely control all common features, such as volume and channels, and menu, guide, and navigation functions.



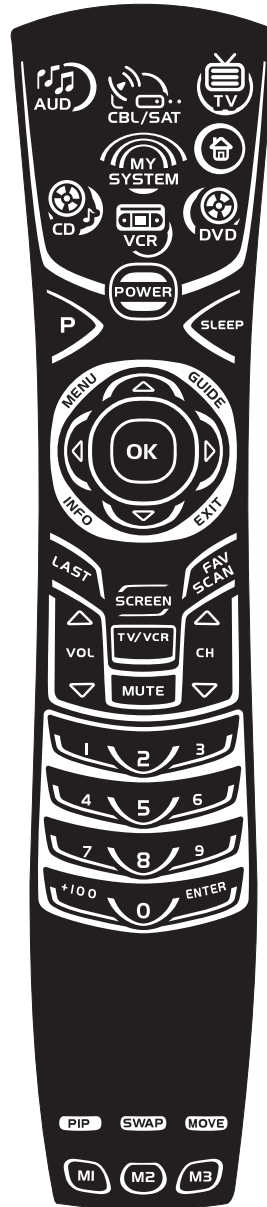
TV MAIN MENU



Pressing **TV** once displays the *TV Main Menu* screen. After device programming, use these keys to remotely control all your TV's common features, such as volume and channels, and last channel, menu, and information/display functions.

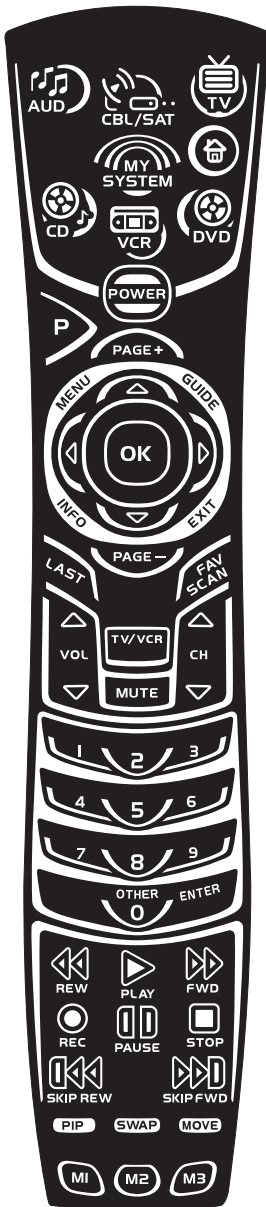
Pressing **SCREEN** once will display the secondary TV menu (see the following).

TV MENU



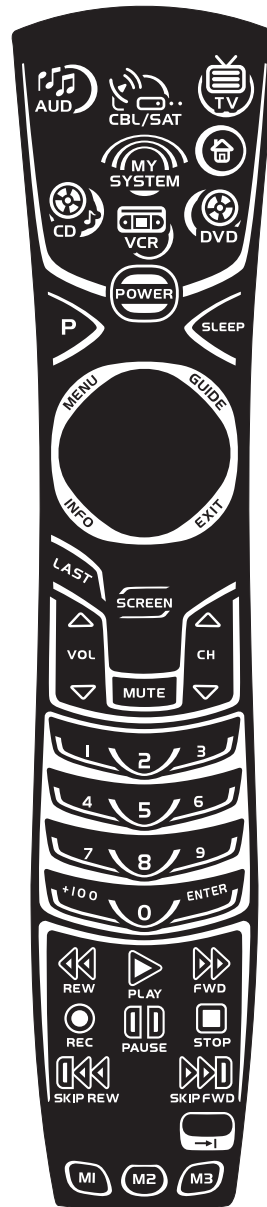
Pressing **SCREEN** once (on the *TV Main Menu*, as shown on left) displays the *TV Menu* screen. Use these keys to remotely control all your TV's common menu features.

MY SYSTEM MAIN MENU



After mode programming, pressing **My System** once displays the *Home Theater Main Menu* screen. Use these keys to remotely access all common features and functions of your home theater system. For details, see “Using My System Mode” on page 11.

CD MAIN MENU

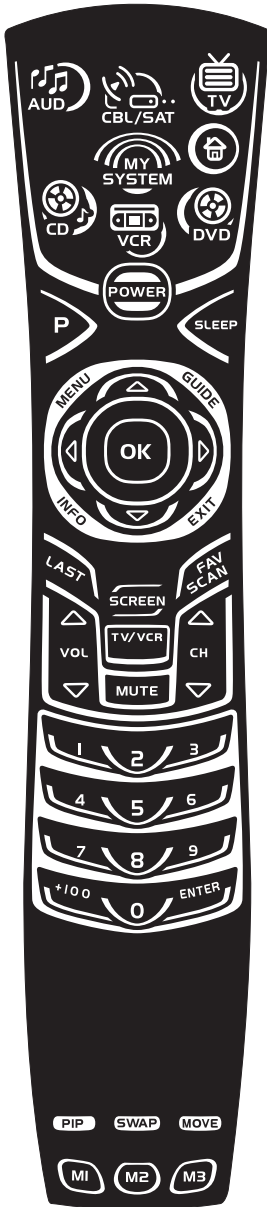


Pressing **CD** once displays the *CD Main Menu* screen. After device programming, use these keys to remotely control all your CD player's common features, such as transport keys and skip, menu, and random functions.

Pressing **SCREEN** once will display the secondary *CD* menu (see the following page).

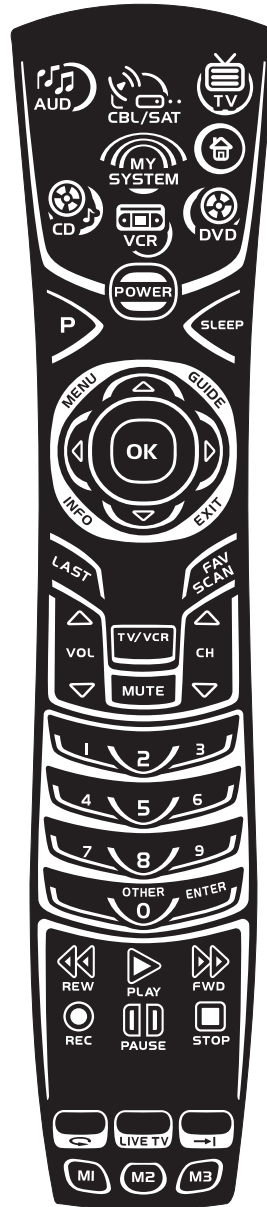


CD MENU



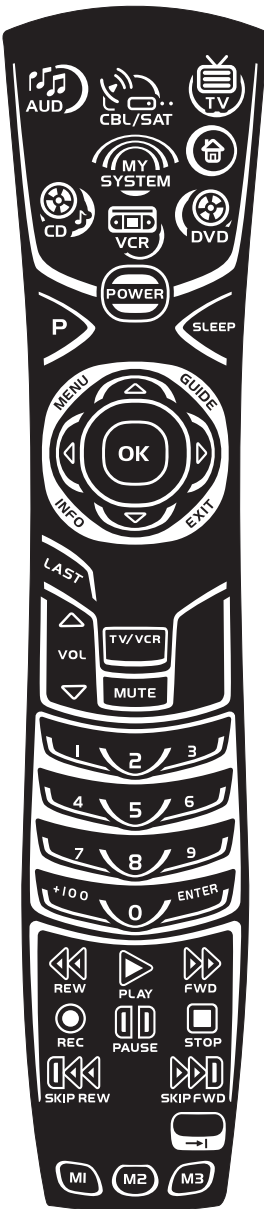
Pressing **SCREEN** once (on the *CD Main Menu*, as shown on previous page) displays the *CD Menu* screen. Use these keys to remotely control all your CD player's common menu features.

VCR MAIN MENU



Pressing **VCR** once displays the *VCR Main Menu* screen. After device programming, use these keys to remotely control all your VCR's common features, such as volume and channels, and last channel, menu, and information/display functions.

DVD MAIN MENU



Pressing **DVD** once displays the *DVD Main Menu* screen. After device programming, use these keys to remotely control all your DVD player's common features, such as transport keys and menu, navigation, subtitle, and audio functions.



SPECIFICATIONS

Remote Power	(4) AA Batteries
Remote Dimensions (H x W x D)	9.44 x 2.63 x 1.22in
(H x W x D).....	240 x 67 x 31mm

Remote Weight (no batteries)40 lbs (181.44g)

NOTE: *Specifications are typical. Individual units might vary. Specifications are subject to change and improvement without notice.*

CARE

- Keep the remote dry. If the remote gets wet, wipe it dry immediately.
- Handle the remote gently and carefully. Don't drop it.
- Use and store the remote only in normal temperature environments.
- Keep the remote away from dust and dirt.
- Wipe the remote with a damp cloth to keep it looking new.
- Modifying or tampering with internal parts can cause damage and invalidate the warranty. If your remote is not performing as it should, please contact us at:
www.radioshack.com
or visit your local RadioShack store for help.

ADDITIONAL INFORMATION

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The RadioShack 4-in-One Remote Powered By Kameleon is compatible for use in North America. This product uses technologies licensed under one or more of the following U.S. patents: 6,587,067; 6,496,135; 5,515,052; 6,014,092; 6,195,033; 5,959,751; 6,587,067; 5,481,256; and patents pending.

M6123

INSTRUCTIONS TO THE USER

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide a reasonable protection



RadioShack 6-IN-ONE REMOTE POWERED BY KAMELEON

against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

This equipment has been verified to comply with the limits for a class B computing device, pursuant to FCC Rules. In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.

LIMITED 90-DAY WARRANTY

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers.

EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO

ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price.

All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

RadioShack Customer Relations,
200 Taylor Street, 6th Floor,
Fort Worth, TX 76102



Cat.No. 15-2144

07/02

RadioShack

Fort Worth, Texas 76102



RadioShack 6-IN-ONE REMOTE POWERED BY KAMELEON ---

[placeholder for Sp version]



MANUFACTURER'S CODES**SETUP CODES FOR AUDIO AMPLIFIERS**

Accuphase	0382
Acurus	0765
Adcom	0577, 1100
Aiwa	0406
AudioSource	0011
Biamp	0582
Bose	0674
Carver	0269
Classe	1462, 1461
Curtis Mathes	0300
Denon	0160
Digital Audio Control	0085
Durabrand	1561
Elan	0647
Forte	0606
GE	0078
GoldStar	0031
Harman/Kardon	0892, 0106
JVC	0331
Kenwood	0356
Left Coast	0892
Lenoxx	1561
Linn	0269
Logitech	1408
Luxman	0165
Magnavox	0269
Marantz	0892, 0321, 0269
Mark Levinson	1483
McIntosh	0251
Nakamichi	0321
NEC	0264
Optimus	0395, 0300, 0823
Panasonic	0521, 0308
Parasound	0246
Philips	0892, 0269
Pioneer	0823, 0300, 0013
Polk Audio	0892, 0269
RCA	0823, 0300
Realistic	0395
Sansui	0321
Shure	0264
Sony	0689, 0815, 0220
Soundesign	0078, 0211
Technics	0308, 0521

Victor	0331
Wards	0078, 0013, 0211
Yamaha	0354, 0143, 0133, 0504

SETUP CODES FOR AUDIO AMP/TUNERS

ADC	0531
Admiral	0182
Aiwa	1405, 0158, 0189, 1243, 0121, 0405
Akai	1255, 0115
Alco	1390
Anam	1609, 1074
Audiotronic	1189
Audiovox	1390
Bose	1229, 0639, 1253
Capetronic	0690, 0531
Carver	1189, 0189, 0360, 0042
Casio	0195
Clarinette	0195
Coby	1263
Curtis Mathes	0080
Dell	1383
Denon	1360, 0004, 1142
Fisher	0042, 0360, 0219
Garrard	0286, 0744, 0463, 0440
Glory Horse	1263
GPX	0744
Hanwah	0741
Harman/Kardon	0110, 0189, 0891
Hewlett Packard	1181
Hitachi	1273
Hitech	0744
Integra	0135
JBL	0110
Jensen	0754
JVC	0074, 1263, 0286
Kansai	0440
Kenwood	1313, 1570, 1569, 0027, 0186, 0042, 0239
Kioto	0797
KLH	1428, 1390
Koss	0744
Linn	0189
Lloyd's	0195
LXI	0744, 0181
Magnavox	1189, 1269, 0189, 0391, 0364, 0195, 0531
Marantz	1189, 1269, 0039, 0189
MCS	0039



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Memorex	0335
Mitsubishi	1393
Modulaire	0195
Nakamichi	0097
Nikko	0609
NTDE Geniesom	0744
Onkyo	0842, 0135
Optimus	1023, 0181, 0849, 0229, 0531, 0690, 0754, 0177, 0803, 0219, 1074, 0440, 0670, 0744, 0080, 0801, 0186, 0286, 0622, 0738, 0042, 0797
Orient Power	0744
Panasonic	1518, 0039, 0309
Penney	0195
Philco	1390
Philips	1189, 1269, 0189, 0391
Pioneer	1023, 0531, 1123, 0150, 0080, 0630, 0014
Polk Audio	0189
Proscan	1254
Quasar	0039
RadioShack	1263, 0744
RCA	1023, 1609, 1254, 0080, 1123, 1511, 0531, 1122, 1390, 0360, 1074
Realistic	0163, 0182, 0025, 0181, 0534, 0001, 0178, 0195
Recco	0797
Rio	1383
Saba	1519
Samsung	0286
Sansui	0189
Sanyo	1251, 0801, 0219
Schneider	0364
Scott	0418, 0163
Sharp	1286, 0186
Sharper Image	0797, 1263
Sonic Blue	1383
Sontec	0068
Sony	1058, 1441, 1258, 1759, 0158, 1406, 0415, 1349, 1442
Soundesign	0670
Starlight	0797
Stereophonics	1023
Sunfire	1313
Symphonic	0182
Teac	0463, 1390, 0163, 1267, 1074
Technics	1308, 1518, 0039, 0309

Techwood	0690, 0609, 0364
Thorens	1189
Venturer	1390, 0849
Victor	0074
Wards	0158, 0189, 0080, 0014
Yamaha	0176, 0186, 1176
Yorx	0195
Zenith	0622, 0857, 0744

SETUP CODES FOR MISCELLANEOUS AUDIO DEVICES

Aiwa	0010, 0159, 0404
Altec Lansing	1485
AudioSource	0351
Cambridge Soundworks	0351, 1530
Carver	0351
Fisher	0052
Fosgate	0259
Harman/Kardon	0477
JBL	0477
Jerrold	0520, 0459
JVC	0073
KLH	0351
Magnavox	0325
Marantz	1491
Motorola	1464
Omnifi	1605
Optimus	1121
Paramount Pictures	0317, 0351
RCA	0056
Sansui	0325
Scientific Atlanta	0460
Sony	0010, 0159, 0576
SSI	0317
Starcom	0459

SETUP CODES FOR CABLE BOXES

ABC	0003, 0008, 0014, 0011, 0017, 0007, 0013
Allegro	0315, 0153
Americast	0899
Antronix	0022, 0207
Archer	0039, 0797, 0022, 0207, 0153
Belcor	0056
Bell & Howell	0014
Bell South	0899
Cable Star	0056

Cabletenna	0022
Cableview	0022
Century	0153
Citizen	0315, 0153
Clearmaster	0883
ClearMax	0883
Colour Voice	0025
Comtronics	0040
Contec	0019
Coolmax	0883
Digi	0637
Director	0476
Dumont	0637
Eastern	0002
Emerson	0797
Everquest	0040, 0015
Focus	0400
Garrard	0153
GC Electronics	0207, 0056
Gemini	0797, 0015
General Instrument	0476, 0810, 0276, 0003, 0011
GoldStar	0144, 0040
Goodmind	0797
Hamlin	0009, 0273, 0020, 0259, 0034
Hitachi	0011
Hytex	0007
Jasco	0153, 0015, 0315
Jerrold	0476, 0810, 0276, 0003, 0012, 0014, 0011, 0015
Memorex	0000
Motorola	0476, 0810, 0276, 1254, 1106, 1376
Movie Time	0063
MultiVision	0012
NSC	0063
Oak	0019, 0007
Optimus	0021
Pace	1877, 0237
Panasonic	0000, 0107, 0021
Panther	0637
Paragon	0000
Philips	0305, 0317, 0153, 0025
Pioneer	0877, 1877, 0144, 0533
Popular Mechanics	0400
Pulsar	0000
Quasar	0000
RadioShack	0883, 0015, 0797, 0315, 0303

RCA	0021
Realistic	0207
Recoton	0400
Regal	0279, 0273, 0259, 0020
Regency	0002
Rembrandt	0011
Runco	0000
Samsung	0144, 0040
Scientific Atlanta	0877, 1877, 0477, 0008, 0017
Signal	0040, 0015
Signature	0011
SL Marx	0040
Sony	1006
Sprucer	0021
Starcom	0003, 0015
Stargate	0797, 0040, 0015
Starquest	0015
Supercable	0276
Supermax	0883
Tandy	0258
Teleview	0040
Timeless	0040
Tocom	0012, 0013
Torx	0003
Toshiba	0000
Tristar	0883
Tusa	0015
TV86	0063
Unika	0207, 0153, 0022
United Artists	0007
Universal	0056, 0207, 0039, 0191, 0022, 0153
V2	0883
Viewmaster	0883
Viewstar	0063, 0258
Vision	0883
Vortex View	0883
Zenith	0000, 0525, 0899
Zentek	0400

SETUP CODES FOR CD PLAYERS

ADC	0018
Adcom	0234, 0155
Aiwa	0157, 0124
Akai	0156
Audio Alchemy	0194
Audio-Technica	0170
BSR	0194, 0245
Burmester	0420



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California Audio Labs	0029, 0303
Carrera	0194
Carver	0157, 0437, 0179
CCE	0157
Classic	1297
DAK	0245
Denon	0873, 0003
DKK	0000
DMX Electronics	0157
Emerson	0155, 0469, 0305, 0164
Fisher	0179, 0174, 1325, 0088, 0342
Garrard	0280, 0245, 0420, 0393
GE	0009
Genexxa	0032, 0305, 0164
GPX	1296
Harman/Kardon	0157, 0173, 1202, 0426
Hitachi	0032, 0155
Integra	0101
JVC	0072, 1294
Kenwood	0681, 0826, 0626, 0028, 0037, 0190
KLH	1318
Kodak	0287
Koss	1317
Krell	0157
Kyocera	0018
LG	1208
Linn	0157
Luxman	0093
LXI	0305
Magnavox	0157, 0305
Marantz	0626, 0029, 0157, 0180
Mark Levinson	1484
Matsui	0157
McIntosh	0287
MCS	0029
Miro	0000
Mission	0157
MTC	0420
NEC	0234
Nikko	0174, 0170, 0164
NSM	0157
Onkyo	0868, 0101
Optimus	1063, 0000, 0032, 0037, 0420, 0468, 0775, 0175, 1075, 0196, 0342, 0437, 0671, 0145, 0194, 0305, 0426, 0536, 0087, 0850, 0179, 0280

Panasonic	0029, 0752, 0303
Parasound	0420, 0194
Philips	0626, 0157, 0287
Pioneer	1063, 1062, 0032, 0305, 0468, 1087
Polk Audio	0157
Proton	0157
QED	0157
Quad	0157
Quasar	0029
RadioShack	1083, 1075
RCA	1062, 0032, 0179, 0468, 0009, 0155, 0420, 0053, 0305, 0764
Realistic	0155, 0179, 0175, 0420, 0164, 0180
Rotel	0157, 0420
SAE	0157
Sansui	0157, 0202, 0305
Sanyo	0179, 0087
Scott	0305, 0164, 0155
Sears	0305
Sharp	0861, 0037, 0180
Sherwood	1067, 0426, 0196, 0180
Sonic Frontiers	0157
Sony	0490, 0000, 1364, 0185, 0605, 0100, 0604
Soundesign	0145
Staron	0398
STS	0018
Symphonic	0305
TAG McLaren	0157
Tascam	0420
TDK	1208
Teac	0393, 0180, 0174, 0420
Technics	0029, 0303
Tivoli Audio	1553
Vector Research	0194
Victor	0072
Wards	0157, 0559, 0053
Yamaha	0888, 0036, 0187, 0170, 1292
Yorx	0461
Zonda	0157

SETUP CODES FOR DVD PLAYERS

Adcom	1094
Aiwa	0641, 1912
Akai	1975, 1089, 0770
Allegro	0869

Amphion Media	2001
Works	
AMW	0872, 2001
Anaba	0813
Anam	1913
Apex Digital	0672, 0717, 0794, 1004, 1061, 1937, 0755, 0797, 1056, 1915, 0796, 1020, 1100
Audiologic	0736
Audiovox	1041, 0790, 1072, 1071
Axion	1072, 1071
B & K	0662, 0655
Blaupunkt	0717
Blue Parade	0571
Boss Audio Systems	1093
Broksonic	0695
Cambridge Soundworks	1916
CAVS	1057
CineVision	0876, 0869
Clarion	0892, 0891, 1039
Classic	1917
Coby	1086, 0778, 1923, 1107
Criterion	2007
Curtis Mathes	1087
CyberHome	1019, 1117, 0816, 1024, 1023
Daewoo	0784, 1918, 0770, 0869, 0705, 0833
Denon	0490, 0634
Dual	1085, 1068
DVD2000	0521
Emerson	0591, 0675
Enterprise	0591
Fahrenheit	0890, 0887, 1066, 1054
Fisher	0670, 1919
Fun TV	1055
Funai	0675
Gateway	1073, 1077
GE	0522, 0815, 0717
Go Video	0744, 0869, 1099, 0715, 0833, 1075, 0783, 1044, 1970
GPX	0769, 0699
Gradiente	0651
Greenhill	0717
Grundig	0705
Harman/Kardon	0582, 0702
Hitachi	0573, 0664, 1919, 0695
Hiteker	0672

Honda	1114
Initial	0717, 1931
Integra	0627, 1924
IRT	0783
Jamo	2003
Jaton	1078
JBL	1926, 0702
JVC	0558, 0623, 0867, 1940, 1901
jWin	1049, 1051
Kawasaki	0790
Kenwood	0490, 0534, 0737, 0682
KLH	0717, 1939, 1020, 0790
Konka	0720, 0719, 0711, 0721
Koss	0651
Landel	0826
Lasonic	0798
Lenoxx	1938
LG	0801
Lite-On	1058
Loewe	0511
Magnavox	0503, 1976, 1914, 0675
Malata	0782
Marantz	0539
Memorex	0695
Microsoft	0522
Mintek	0839, 0717
Mitsubishi	1521, 0521
Momitsu	1082
NAD	0692
NEC	0785
Nesa	0717
Next Base	0826
Nissho Iwai	1055
Norcent	1003, 1107, 0872, 1923
Onkyo	0503, 0627, 1985, 1924, 0792
Optiview	0813
Oritron	0651
Panasonic	0490, 1910, 1990, 1762, 1909, 1986, 0824, 1908, 1925, 0632, 1907
Philco	2000, 0790
Philips	0503, 0539, 0646, 0885, 1914
Pioneer	0525, 0571, 1902, 1059, 0632
Polaroid	1061, 1998, 1086
Polk Audio	0539
Portland	0770
Princeton	0674
Proscan	0522



RadioShack 6-IN-ONE REMOTE POWERED BY KAMELEON

ProVision	0778
Qwestar	0651
RCA	0522, 0571, 0717, 0790, 1974, 1913, 0822
Recco	0698
Regent	1938
Rio	0869
Rotel	0623
Rowa	0823
Saba	1977
Sampo	0698, 0752
Samsung	0490, 0573, 0744, 1075, 0820, 1979, 1932
Sansui	0695
Sanyo	0670, 1967, 0873, 0695
Semp	0503
Sharp	0630, 0752
Sharper Image	1995, 1117
Sherwood	0633, 1077, 1043, 0770
Shinsonic	0533, 0839, 1931
Sigma Designs	0674
Sonic Blue	1970, 1099, 0869
Sony	0533, 1533, 0864, 1033, 1903, 1981, 1934, 1095, 1904
Sungale	1074
SVA	1105, 0860
Sylvania	0675
Symphonic	0675
Teac	0809, 0790, 1984
Technics	0490
Techwood	0692
Terapin	1031
Theta Digital	0571
Tivo	1996
Toshiba	0503, 1988, 0695, 2006, 1996
Tredex	0800, 0799, 0804, 0803
TView	0813
TYT	0705
Urban Concepts	0503
US Logic	0839
V	1064
Venturer	0790
Vocopro	1027
Xbox	0522
Xwave	1001
Yamaha	0490, 0539, 0545
Zenith	0503, 0591, 2002, 1906, 0869

SETUP CODES FOR DVD PLAYER/PVR COMBOS

RCA	0880
Toshiba	1503, 1008

SETUP CODES FOR DVD PLAYER/VCR COMBOS

none provided in spec - keep?

SETUP CODES FOR HIGH-DEFINITION TVs

none provided in spec - keep?

SETUP CODES FOR HOME AUTOMATION

none provided in spec - keep?

SETUP CODES FOR HOME-THEATER-IN-A-BOX SYSTEMS

Aiwa	0641, 1912
Akai	1975
Amphion Media Works	2001
AMW	2001
Anam	1913
Apex Digital	1915, 1937
Audiovox	0790
Cambridge Soundworks	1916
Classic	1917
Coby	1923
Criterion	2007
Daewoo	1918
Fisher	1919
Go Video	1970
Hitachi	1919
Initial	1931
Jamo	2003
JBL	1926
JVC	1940, 1901
KLH	0790, 1939
Koss	0651
Magnavox	1976
Norcent	1923
Onkyo	0627, 1924, 1985
Oritron	0651
Panasonic	1908, 1925, 1907, 1910, 1990, 1909, 1986
Philco	0790, 2000
Philips	1914, 0885
Pioneer	1902
Polaroid	1998
Polk Audio	0539

RCA	1974, 1913, 0790
Regent	1938
Rio	0869
Saba	1977
Samsung	1932, 1979
Sanyo	1967, 0670
Sharper Image	1995
Sonic Blue	1970, 0869
Sony	1934, 1904, 1903, 1981
Teac	1984, 0790
Toshiba	2006
Venturer	0790
Zenith	2002, 1906

SETUP CODES FOR MINI-DISC PLAYERS

none provided in spec - keep?

SETUP CODES FOR PVRs

Panasonic	0616
Philips	0618
ReplayTV	0616, 0614
Sonic Blue	0616, 0614
Sony	0636
Tivo	0636, 0618

SETUP CODES FOR SATELLITE RECEIVERS

AlphaStar	0772
Century	0856
Channel Master	0212
Chaparral	0053, 0216, 0209
Crossdigital	1109
DirecTV	0392, 0566, 0639, 1639, 1142, 0247, 0749, 1749, 0724, 0819, 1856, 1076, 1109, 0099, 1443, 1442, 1444
Dish Network System	1005, 0775, 1775, 1170
Dishpro	1005, 0775, 1775
Echostar	1005, 0775, 1775, 0159, 0280, 1170, 0269, 0218
Expressvu	1775, 0775
GE	0566
General	0869
Instrument	
GOI	0775, 1775
Goodmans	1246
Gradiente	0856
Hitachi	0819, 1250
Homecable	0238

HTS	0775, 1775
Hughes Network Systems	1142, 0749, 1749, 1442, 1444, 1443
Innova	0099
IQ	0210
IQ Prism	0210
Janeil	0152
JVC	0775, 1775, 1170
Legend	0269
LG	1226
Magnavox	0724, 0722
Memorex	0724, 0269
Mitsubishi	0749
Motorola	0869
NEC	1270
Netsat	0099
Next Level	0869
Panasonic	0247, 0701, 0152
Paysat	0724
Philips	1142, 0749, 1749, 0724, 0856, 1076, 0722, 0099, 1442
Proscan	0392, 0566
RadioShack	0869
RCA	0392, 0566, 0855, 0143
Realistic	0051, 0052
Samsung	1276, 1109
Sanyo	1219
SKY	0856, 1856, 0099
Sony	0639, 1639
Star Choice	0869
Star Trak	0180
STS	0210
Tivo	1142, 1444, 1443, 1442
Toshiba	0749, 1749, 0790, 0082, 1285
Uniden	0724, 0722, 0052, 0238, 0076, 0074
Zenith	0856, 1856

SETUP CODES FOR SATELLITE RECEIVERS/PVR COMBOS

none provided in spec - keep?

SETUP CODES FOR TVs

A-Mark	0003
Abex	0032
Admiral	0093, 0463
Advent	0761, 0783, 0842, 0817, 0815, 1933
Adventura	0046



RadioShack 6-IN-ONE REMOTE POWERED BY KAMELEON

Aiko	0092
Aiwa	1914, 0701
Akai	0812, 0702, 0030, 0672, 1903, 0098
Alaron	0183, 0179, 0216
Albatron	0843, 0700
Alfide	0672
Ambassador	0177
America Action	0180
Ampro	0751
Anam	0180, 0009, 0004, 0068
Anam National	0161, 0055
AOC	0030, 0185, 0019, 0137, 0003, 0052
Apex Digital	0748, 0765, 0767, 1943, 0879
Archer	0003
Audinac	0180
Audiovox	0451, 0180, 0710, 1937, 0092, 0623, 0875, 1952, 0003, 0802, 1951
Axion	1937
Baysonic	0180
Belcor	0019
Bell & Howell	0154, 0016
Blue Sky	1254
Bradford	0180
Brockwood	0019
Broksonic	0236, 0463, 1929, 1911, 1938, 0003, 1905, 1935
Candle	0030, 0186, 0056, 0046
Carnivale	0030
Carver	0054, 0170
CCE	0217, 0329
Celebrity	0000
Celera	0765
Changhong	0765
Cineral	0451, 0092
Citizen	0060, 0030, 0046, 0092, 1928, 0039, 0280, 0056, 0186
Clairtone	0185
Clarion	0180
Colt	1906
Concerto	0056
Contec	0180, 0158, 0157, 0185
Craig	0180, 0161
Crosley	0054
Crown	0180, 0039, 0672
Crown Mustang	0672

Curtis Mathes	0047, 0054, 0154, 0451, 0093, 0060, 0702, 0030, 0145, 0166, 1919, 0016, 1347, 0466, 1147, 0039, 0056, 0747
CXC	0180
Daewoo	0451, 1661, 0039, 0092, 0672, 1928, 0019, 0091, 0623, 1909, 0066
Daytron	0019
Denon	0145, 0511
Dumont	0017, 0019
Durabrand	0180, 0178, 0003
Dwin	0774, 0720
Dynatech	0049
Electroband	0000, 0185
Electrohome	0409, 0389, 0381
Elektra	0017, 1661
Emerson	0154, 0236, 0463, 0180, 0178, 0171, 0038, 0282, 0158, 1905, 1928, 0181, 0185, 0019, 0280, 0623, 0177, 1911, 1944, 0183, 0270, 0039, 1909, 0179, 1929, 0182
Envision	0030, 0813
Epson	0840, 0833
Fisher	0154, 0159
FlexVision	0710
Fujitsu	0179, 0853, 0809, 0683
Funai	0180, 0171, 0179, 1904
Futuretech	0180
Gateway	1755, 1756
GE	0047, 0051, 0451, 0178, 1447, 0055, 1922, 0174, 0279, 0747, 0027, 1919, 0138, 0251, 0021, 1347, 1917, 0135, 0282, 1147, 0029, 1907
Gibraltar	0017, 0030, 0019
GoldStar	0030, 0178, 0019, 0106, 1926, 0002, 0032, 0409, 0001
Goodmans	0360
Gradiente	0053, 0170, 0056, 0392
Grundig	0672
Grunpy	0180, 0179
Haier	0768
Hallmark	0178
Harley Davidson	1904, 0179, 0043
Harman/Kardon	0054, 0078
Harvard	0180, 0068
Havermy	0093
Hello Kitty	0451



Himitsu	0180, 0628
Hisense	0748
Hitachi	1145, 0145, 0016, 0056, 0409, 1904, 0038, 0097, 0279, 0032, 0095, 0151, 0413
Hyundai	0849
Infinity	0054
Inteq	0017
IRT	0451, 1661, 0628
Janeil	0046
JBL	0054
JCB	0000
Jensen	0761, 0050, 0817, 0815, 1933
JVC	0463, 0053, 0069, 0182, 1923, 0169, 1253, 0036, 0160
Kamp	0216
Kawasho	0216, 0158, 0308
Kaypani	0052
KEC	0180
Kenwood	0030, 0019
Kioto	0054, 0706
KLH	0765, 0767
Kloss	0024, 0078, 0046
KMC	0106
Konka	0638, 1939, 0632, 0707, 0628, 0703, 1940
KTV	0180, 0030, 0217, 0039, 0185, 0183, 0280
LG	0030, 0178, 0056, 0856, 0442, 1178
Lloyd's	1904
Loewe	0136
Logik	0016
Luxman	0056
LXI	0047, 0054, 0154, 0156, 0178, 0747, 0148
M & S	0054
Magnasonic	1928, 1913
Magnavox	0054, 0030, 1454, 0706, 0179, 0230, 1254, 0020, 1913, 0096, 0187, 1904, 0028, 1944, 0186, 0386, 0024, 1931, 0036
Magnin	1907
Majestic	0016, 0015
Marantz	0054, 0030, 0855, 0854, 0704, 1154
Matsushita	0250, 0650
Megapower	0700
Megatron	0178, 0145, 0003

MEI	0185
Memorex	0154, 0463, 0150, 0178, 1911, 1926, 0016, 1924, 0179, 1920, 1927, 0106
Mercury	0001
MGA	0150, 0030, 0178, 0019, 0155, 1907
Midland	0047, 0017, 0051, 0032, 0747, 0039, 0135
Minutz	0021
Mitsubishi	0093, 0150, 1250, 0178, 0836, 1917, 0155, 0358, 0019, 0331, 0868, 0014, 0098
Monivision	0843, 0700
Motorola	0093, 0055
MTC	0060, 0030, 0216, 0019, 0056, 0185, 0049, 0091
Multitech	0180, 0049, 0217
NAD	0156, 0178, 0866
NEC	0030, 0019, 0056, 1704, 0036, 0497, 0170
Nikko	0030, 0178, 0092
Noblex	0154, 0430
Norcent	0748, 0824
Noshi	0018
NTC	0092
Onwa	0180
Optimus	0154, 0250, 0166, 1924, 1913, 0650, 1927
Optonica	0093, 0165
Orion	0236, 0463, 0179, 1905, 1929, 1911
Panasonic	0250, 0051, 1941, 0226, 1410, 1927, 1947, 0162, 0650, 1924, 1946, 0055, 1919
Penney	0047, 0156, 0051, 0060, 0030, 0178, 0135, 0002, 0019, 1347, 1926, 0110, 0149, 0018, 0747, 0027, 1919, 0039, 0138, 0003, 0021, 1907, 0032
Philco	0054, 0463, 0030, 0145, 1661, 1911, 0028, 0096, 0020, 0019
Philips	0054, 1454, 1154, 0690
Pilot	0030, 0019, 0039
Pioneer	0166, 0866, 0038, 0679, 0172
Portland	0019, 0092, 0039
Prima	0761, 0817, 0815, 0783, 1933
Princeton	0717, 0700
Prism	0051
Proscan	0047, 1447, 0747, 1922, 1347



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Proton	0178, 0003, 0052, 0031, 0466
Pulsar	0017, 0019
Quasar	0250, 0051, 0165, 0650, 0055, 1924, 0219, 1919
RadioShack	0047, 0154, 0180, 0030, 0178, 0165, 0409, 1920, 0019, 0039, 1904, 0032, 0056, 0747
RCA	0047, 0060, 1447, 0038, 1917, 0090, 1948, 0278, 1047, 1347, 0029, 1907, 1922, 0174, 0747, 1247, 0019, 1547, 1919, 0135, 1953, 0679, 1147, 0018
Realistic	0154, 0180, 0030, 0178, 0056, 0019, 0039, 0165, 0032
Rhapsody	0216, 0185, 0183
Runco	0017, 0030, 0251, 0603, 0497
Sampo	0030, 0052, 1755, 0039, 0110, 0032, 0100
Samsung	0060, 0812, 0702, 0030, 0178, 0056, 0329, 0814, 0032, 0482, 1903, 0427, 0766, 1060, 0019
Samsux	0039
Sansei	0451
Sansui	0463, 1911, 1904, 1929
Sanyo	0154, 0107, 0159, 1907, 0088, 0799, 0146, 0484
Scimitsu	0019
Scotch	0178
Scott	0236, 0180, 0178, 0019, 0179
Sears	0047, 0054, 0154, 0156, 0178, 0171, 0179, 1904, 0148, 0747, 0146, 0168, 0015, 0281, 0056, 1926, 0149, 0159
Semivox	0180
Semp	0156, 1356
Sharp	0093, 0281, 0688, 0851, 0165, 0491, 0818, 0039, 0157, 0386, 0689, 1917, 0153
Sharper Image	1950
Sheng Chia	0093
Shogun	0019
Signature	0016
Simpson	0186, 0187
Sony	1100, 0000, 0080, 0834, 1925, 0011, 0810, 1904, 0111
Soundesign	0180, 0178, 0179, 0186
Spectricon	0137, 0003
Squareview	0171
SSS	0180, 0019
Starlite	0180

Studio	0843
Experience	
Supre-Macy	0046
Supreme	0000
SVA	0748, 0768, 0871, 0870, 0587, 0865, 0872
Sylvania	0054, 0030, 0171, 0096, 1931, 0028, 0065, 0381, 0020, 1944
Symphonic	0180, 0171, 1913, 1904
Tandy	0093
Tatung	0055, 0049, 1756, 0003, 0396
Technics	0250, 0051
Technol Ace	0179
Technovox	0007
Techview	0847
Techwood	0051, 0056, 0003
Teknika	0054, 0180, 0150, 0060, 0039, 0179, 0312, 0019, 0056, 0186, 0016, 0092
Telefunken	0702, 0056, 0074
Tera	0031
Thomas	1904
TMK	0178, 0177, 0056
TNCi	0017
Tophouse	0180
Toshiba	0154, 0156, 0093, 0060, 1256, 0149, 0650, 1156, 1656, 1935, 0845, 1356, 1918, 1945, 0832, 1704, 0036, 1936
Tosonic	0185
Totevision	0039
Trical	0157
TVS	0463
Universal	0027
Vector Research	0030
Victor	0053
Video Concepts	0098
Vidikron	0054, 0242
Vidtech	0178, 0019, 0036
Viewsonic	0857, 1755, 0864
Viking	0312, 0046
Wards	0054, 0030, 0178, 0020, 1156, 0028, 0096, 0174, 0019, 0866, 0027, 0080, 0165, 0016, 0179, 0021, 0029, 0056, 0111
Waycon	0156
White	0463, 0623, 1909
Westinghouse	
Yamaha	0030, 0839, 0019, 0833, 0769

Zenith	0017, 0463, 0178, 1909, 0092, 1904, 1929, 1911, 0016
Zonda	0003

SETUP CODES FOR TV/DVD PLAYER COMBOS

Advent	1933
Apex Digital	1943
Audiovox	1951, 1937, 1952
Axion	1937
Broksonic	1935
Jensen	1933
Konka	1940, 1939
Panasonic	1941
Prima	1933
RCA	1948
Samsung	1903
Sylvania	0171
Toshiba	1935

SETUP CODES FOR TV/VCR COMBOS

Aiwa	1914
America Action	0180
Audiovox	0180
Broksonic	1905, 1929, 1911
Citizen	1928
Colt	1906
Curtis Mathes	1919
Daewoo	1909, 1928
Emerson	0236, 1929, 1905, 1928, 1911, 1909
Funai	1904
GE	1917, 1907, 1922, 1919
GoldStar	1926
Harley Davidson	1904
Hitachi	1904
JVC	1923
Lloyd's	1904
Magnasonic	1928, 1913
Magnavox	1931, 1913, 1904
Magnin	1907
Memorex	1926, 1924, 1920, 1927
MGA	1907
Mitsubishi	1917
Optimus	1927, 1924, 1913
Orion	1929, 1911, 1905
Panasonic	1927, 1924, 1919
Penney	1907, 1926, 1919
Quasar	1919, 1924
RadioShack	1920, 1904

RCA	1919, 1917, 1907, 1922
Sansui	1911, 1904, 1929
Sanyo	1907
Sears	1926, 1904
Sony	1925, 1904
Sylvania	1931
Symphonic	1913, 1904
Thomas	1904
Toshiba	1936, 1918
White	1909
Westinghouse	
Zenith	1929, 1911, 1904

SETUP CODES FOR TV/VCR/DVD PLAYER COMBOS

Akai	1903
Broksonic	1938
Emerson	1944
Panasonic	1946, 1947
RCA	1953
Sharp	1917
Sylvania	1944
Toshiba	1945

SETUP CODES FOR VCRs

ABS	1972
Admiral	0048, 0209
Adventura	0000
Aiko	0278
Aiwa	0037, 0000, 0307, 0124
Akai	0041, 0175, 0106, 0061
Alienware	1972
America Action	0278
American High	0035
Asha	0240
Audiovox	0037, 0278
Beaumarck	0240
Bell & Howell	0104
Broksonic	0184, 0121, 0209, 0002, 0295, 0479
Calix	0037
Canon	0035, 0167
Capehart	0020
Carver	0081
CCE	0072, 0278
Cineral	0278
Citizen	0037, 0278
Colt	0072
Craig	0037, 0047, 0240, 0072, 0271
Curtis Mathes	0060, 0035, 0162, 0041, 0760



RadioShack 6-IN-ONE REMOTE POWERED BY KAMELEON

Cybernex	0240
CyberPower	1972
Daewoo	0045, 0278, 0020, 0561, 0637
Daytron	0020
Dell	1972
Denon	0042
Durabrand	0039, 0038
Dynatech	0000
Electrohome	0037
Electroponic	0037
Emerex	0032
Emerson	0037, 0184, 0000, 0121, 0043, 0209, 0002, 0278, 0208, 0561, 0036, 0061, 0212, 0479, 1593, 0295, 0637, 0068
Fisher	0047, 0104, 0066, 0054
Fuji	0035, 0033
Funai	0000, 1593
Garrard	0000
Gateway	1972
GE	0060, 0035, 0240, 1060, 0202, 0761, 0760
Go Video	0643, 0526, 0432
GoldStar	0037, 0038, 0480
Gradiente	0000, 0008
Harley Davidson	0000
Harman/Kardon	0081, 0038
Harwood	0072, 0068
Headquarter	0046
Hewlett Packard	1972
HI-Q	0047
Hitachi	0000, 0042, 0041, 0105, 0089
Howard Computers	1972
HP	1972
Hughes Network Systems	0042
iBUYPOWER	1972
Jensen	0041
JVC	0067, 0041, 0008
KEC	0037, 0278
Kenwood	0067, 0041, 0038
KLH	0072
Kodak	0035, 0037
LG	0037
Lloyd's	0000, 0208
Logik	0072
LXI	0037
Magnasonic	0593

Magnavox	0035, 0039, 0081, 0000, 0149, 0110, 0593, 0563
Magnin	0240
Marantz	0035, 0081
Marta	0037
Matsushita	0035, 0162, 1162
Media Center PC	1972
MEI	0035
Memorex	0035, 0162, 0037, 0048, 0039, 0047, 0240, 0000, 0104, 0209, 0307, 1037, 0299, 0479, 1262, 0268, 0454, 1162, 0046
MGA	0240, 0043, 0061
MGN Technology	0240
Microsoft	1972
Mind	1972
Minolta	0042, 0105
Mitsubishi	0067, 0043, 0061
Motorola	0035, 0048
MTC	0240, 0000
Multitech	0000, 0072
NAD	0058
NEC	0104, 0067, 0041, 0038, 0040
Nikko	0037
Nikon	0253, 0034
Noblex	0240
Northgate	1972
Olympus	0035, 1046
Onkyo	0222
Optimus	1062, 0162, 0037, 0048, 0104, 0593, 0568, 1048, 1262, 0454, 0619, 1162, 0058, 0432
Optonica	0062
Orion	0184, 0209, 0002, 0479, 0295
Panasonic	1062, 0035, 0162, 0616, 1262, 0454, 1162, 0077
Penney	0035, 0037, 0240, 0042, 0038, 0054, 0040
Pentax	0042, 0105
Philco	0035, 0209, 0561, 0479
Philips	0035, 0081, 1081, 0062, 0618, 0110, 1181
Pilot	0037
Pioneer	0067, 0058
Polk Audio	0081
Portland	0020
Profitronic	0240
Proscan	0060, 0760, 0202, 1060, 0761
Protec	0072

Pulsar	0039
Quarter	0046
Quartz	0046
Quasar	0035, 0162, 0077, 1162, 0454
RadioShack	0000, 1037
Radix	0037
Randex	0037
RCA	0060, 0240, 0042, 0149, 0077, 0453, 0761, 0106, 0760, 1060, 0058, 0105, 0202, 0619, 0880
Realistic	0035, 0037, 0048, 0047, 0000, 0104, 0066, 0046, 0062
ReplayTV	0616, 0614
Ricoh	0253, 0034
Runco	0039
Samsung	0240, 0045, 0432
Samtron	0643
Sanky	0048, 0039
Sansui	0000, 0067, 0209, 0041, 0479, 0271
Sanyo	0047, 0240, 0104, 0046, 0159, 0268
Scott	0184, 0045, 0121, 0043, 0210, 0212
Sears	0035, 0037, 0047, 0000, 0042, 0104, 0046, 0066, 0054, 0105
Semp	0045
Sharp	0048, 0848, 0738, 0062
Shintom	0072
Shogun	0240
Singer	0072
Sonic Blue	0616, 0614
Sony	0035, 0032, 0033, 0000, 1032, 0034, 0636, 0253, 1972
STS	0042
Sunpak	0253
Sylvania	0035, 0081, 0000, 0043, 0593, 0110, 1593
Symphonic	0000, 0593, 1593
Systemax	1972
Tagar Systems	1972
Tatung	0041
Teac	0000, 0041
Technics	0035, 0162
Teknika	0035, 0037, 0000
Thomas	0000
Tivo	0618, 1503, 0636
TMK	0240, 0036, 0208

Toshiba	0045, 0043, 0212, 1972, 0210, 1503, 0066, 1008
Totevision	0037, 0240
Touch	1972
Unitech	0240
Vector	0045
Vector Research	0038, 0040
Video Concepts	0045, 0061, 0040
Videomagic	0037
Videosonic	0240
Viewsonic	1972
Villain	0000
Wards	0060, 0035, 0048, 0047, 0081, 0240, 0000, 0042, 0072, 0149, 0212, 0062, 0760
White	0209, 0072, 0637
Westinghouse	
XR-1000	0035, 0000, 0072
Yamaha	0038
Zenith	0039, 0033, 0000, 0209, 0637, 0034, 0479
ZT Group	1972

SETUP CODES FOR VIDEO ACCESSORIES

none provided in spec - keep?

