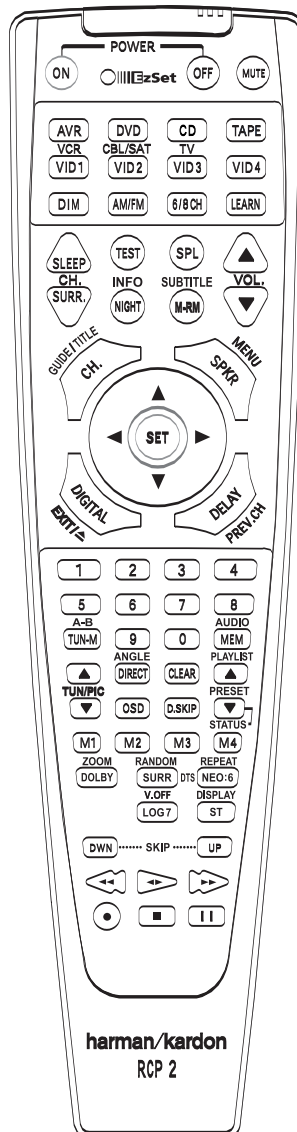


harman/kardon®

Power for the Digital Revolution®

RCP 2

SYSTEM REMOTE OWNER'S MANUAL
FOR USE WITH CP 15, CP 25 AND CP 35 SYSTEMS



RCP 2 SYSTEM REMOTE

2	RCP 2 System Remote
2	Using EzSet
3	Remote Control Functions
7	Programming the Remote
7	Programming Product Codes
7	Direct Code Entry
7	Auto Search Method
7	Code Readout
7	Learning Codes
8	Macro Programming
9	Volume Punch-Through
9	Channel Control Punch-Through
9	Transport Control Punch-Through
9	Reassigning Device Control Selectors
10	Resetting the RCP 2's Memory
10	Programmed Device Functions
11	Function List
13	Setup Code Tables

Trademark acknowledgements on page 23.

Typographical Conventions

The typographical conventions used in this manual are the same as those found in the owner's manuals packed with the individual AVR and DVD components that make up this CP Series system. Please note that the "Number in an Oval" icons (e.g., ❶) used in this manual refer to the numbers shown for the RCP 2 as they appear on page 3 of this manual, not the numbers used in the AVR owner's manual.

RCP 2 System Remote

A key feature of your Harman Kardon CP Series home theater system is a unified remote that operates both the AVR and DVD player included with your system, as well as other products such as VCRs. This remote replaces the individual AVR and DVD remotes that would normally be present.

As an added benefit of purchasing the CP system instead of separately purchasing each component, the RCP 2 remote features Harman Kardon's exclusive, patented EzSet feature, which makes it easier than ever to properly calibrate your new system for maximum performance, and which is not available on the original AVR 135 remote. Also, its learning capability enables it to be programmed with remote codes for other devices, which is not available on the original remotes for the AVR 135, AVR 235 or AVR 335.

Since the RCP 2 remote is an upgraded version of the remote that was originally included with the AVR, the instructions are slightly different. This manual replaces the sections of the AVR manual that explain the programming and operation of the remote.

The visual differences between the original AVR remote and the RCP 2 are the relocation of the **SPL Selector Button** and the addition of a **Learn Button**.

- The button that is labeled ❷ has no function on the original AVR remote, but on the RCP 2 it has the same function as the AVR 235's **SPL Selector Button**. Use this button to activate the EzSet feature, which is explained in the AVR 235 manual, and below for CP 15 users. CP 35 users should use the EzSet+ function described in the AVR 335 owner's manual.
- The button that is labeled ❸ is the **SPL Selector Button** on the original AVR 235 remote, but on the RCP 2 that function has been changed to button ❹. Button ❸ is now the **Learn Button**.

We hope that you enjoy the added features of the RCP 2 remote, and wish you many years of listening and viewing pleasure with your new CP system.

Using EzSet

Harman Kardon's EzSet remote makes it possible to quickly and accurately set the AVR's output levels without the use of a sound-pressure-level meter. These instructions are provided for the benefit of CP 15 system users, for whom EzSet is an added feature that is not described in the AVR 135 owner's manual. We recommend that CP 35 users refer to the AVR 335 manual for its description of EzSet+, and use the more comprehensive setup features EzSet+ provides.

Follow these steps while seated in the listening position:

1. Make certain that all speaker positions have been properly configured for their "large" or "small" settings, and exit the OSD system.
2. Adjust the volume so that it is at **-10dB**.
3. Hold the remote in front of you at arm's length, being sure not to cover the **EzSet Sensor Microphone ❹** at the top of the remote.
4. Press and hold the **SPL Selector Button ❷** for three seconds. Release it when the **Program/SPL Indicator ❸** stops flashing and remains lit. Within five seconds, press the **5 Button ❺** if your system is configured for 5.1 operation or the **7 Button ❻** if your system is configured for 6.1/7.1 operation. The test tone will be heard from the front left speaker.
5. EzSet will take over, adjusting the output level of each channel so that all levels are equal and at the set reference point. This process may take a few minutes.
6. As the adjustment proceeds, a few things will happen simultaneously:

- The channel position will flash in the **Speaker/Channel Input Indicators ❶**. If the test noise

is heard from a channel other than the one shown in the indicator, press the **Test Button ❸** TWICE to stop the adjustment. Then, turn the unit off and verify that all speakers are connected to the proper outputs.

- As the individual channels are set, the channel name and the adjustment offset will appear in the on-screen display (if connected) and the **Lower Display Line ❷**. While the level is changing, the **Program/SPL Indicator ❸** will change colors to reflect the output level in relation to the reference. A red indication shows that the level is too high, while an amber indication shows that the level is too low. When the indicator is green, the level is correct, and the test noise will move to the next channel.
 - While adjustments are being made, the red LED under the **AVR Selector ❹** will flash.
7. After the test noise has circulated once through each channel, it will send the tone to each channel once again, to verify the settings.
 8. After two complete circulations of the tone, the levels are set. The **Program/SPL Indicator ❸** will remain green at each channel, then it will flash green twice and go out. The tone will stop and the AVR will return to normal operation.

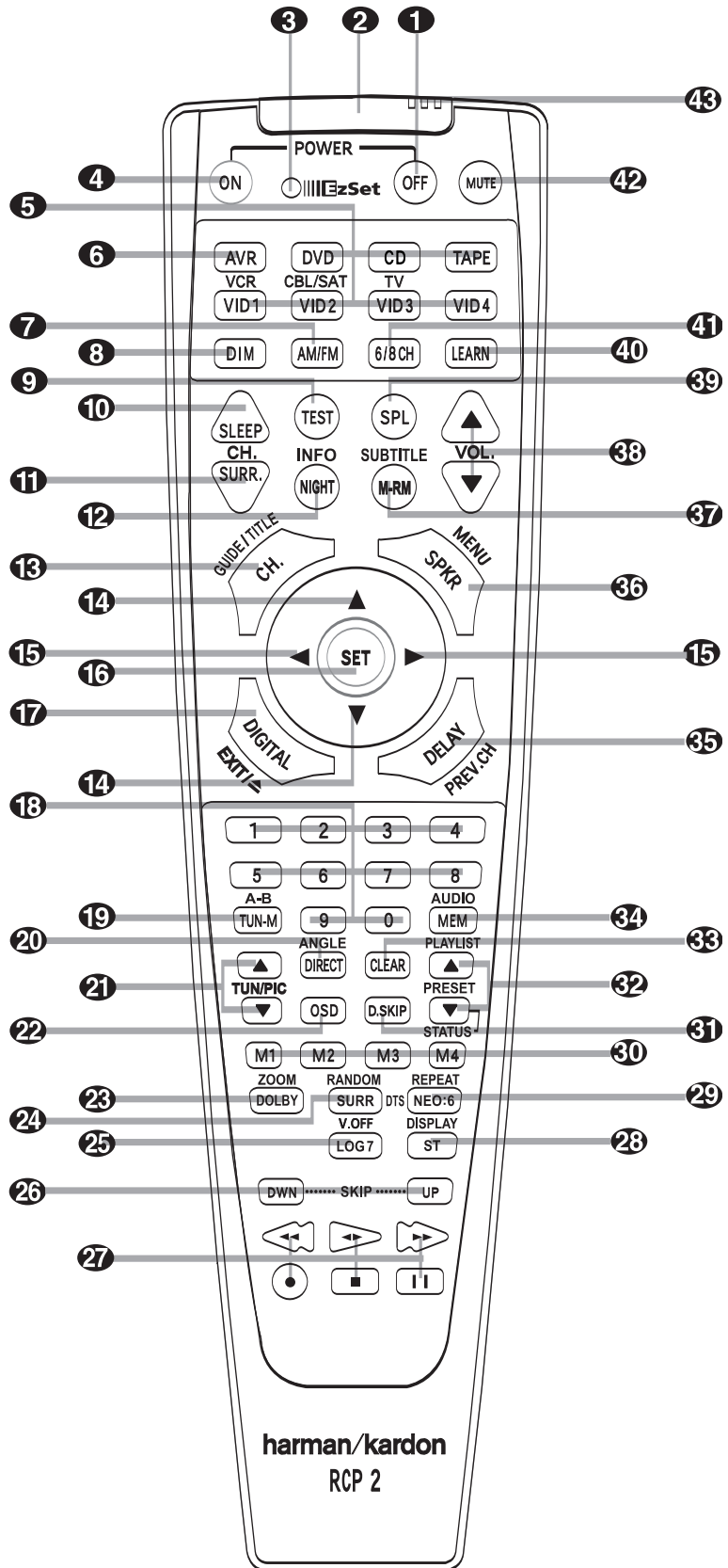
If you find that the output levels chosen by EzSet are either uncomfortably low or high, you may repeat the procedure. Return to Step 2 and adjust the master volume to accommodate your particular room layout and your tastes. You may repeat this procedure as many times as necessary to achieve a desired result. In order to prevent possible damage to your hearing or your equipment, we emphasize that you should avoid setting the master volume above 0dB.

Manual output adjustment is available by first pressing the **Test Tone Button ❸**, then pressing and releasing the **SPL Selector Button ❷**. EzSet will still indicate whether the channel level is too high or low, but you may adjust it yourself using the **▲/▼ Navigation Buttons ❻**.

NOTE: The subwoofer output is not adjusted when the test tone is in use. To adjust the subwoofer output, you must use an external source, following the instructions in the Advanced Features Section of the AVR owner's manual.

REMOTE CONTROL FUNCTIONS

- 1 Power Off Button
- 2 IR Transmitter Window
- 3 Program/SPL Indicator
- 4 Power On Button
- 5 Input Selectors
- 6 AVR Selector
- 7 AM/FM Tuner Select
- 8 Dim Button
- 9 Test Button
- 10 Sleep Button
- 11 DSP Surround Mode Selector Button
- 12 Night Mode/Info
- 13 Channel Select/Title Button
- 14 ▲/▼ Buttons
- 15 ◀/▶ Button
- 16 Set/Enter Button
- 17 Digital Select/Eject Button
- 18 Numeric Keys
- 19 Tuner Mode/Repeat A-B Button
- 20 Direct/Angle Button
- 21 Tuning Up/Down/Pic +/- Buttons
- 22 OSD Button
- 23 Dolby Mode Select/Zoom Button
- 24 DTS Digital Mode Selector/Random Button
- 25 Logic 7 Mode Select/Video Off Button
- 26 Skip/Chapter Up/Down Buttons
- 27 Transport Controls
- 28 Stereo Mode Select/Display Button
- 29 DTS Neo:6 Mode Select/Repeat Button
- 30 Macro Buttons
- 31 Disc Skip Button
- 32 Preset Down/Status Button
- 33 Preset Up/Playlist Button
- 34 Clear Button
- 35 Memory/Audio Button
- 36 Delay/Previous Channel Button
- 37 Speaker Select/Disc Menu Button
- 38 Subtitle/Multiroom Button
- 39 Volume Up/Down Buttons
- 40 SPL Selector
- 41 Learn Button
- 42 6/8 Channel Direct Input Button
- 43 Mute Button
- 44 EzSet Sensor Microphone



NOTE:

- The function names shown here are each button's feature when used with the AVR or DVD in your CP system. Most buttons have additional functions when used with other devices. See pages 11–12 for a list of these functions.
- The functions shown in blue type on the remote are for DVD operation.
- To make it easier to follow the instructions that refer to this illustration, a larger copy may be downloaded from the Product Support section for this product at www.harmankardon.com.

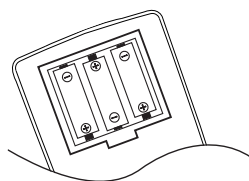
REMOTE CONTROL FUNCTIONS

The following information should be used in place of the similar pages in the manual that accompanies your AVR. In addition to adding an explanation for the **LEARN Button 41**, which is not on the original remote, it also adds information about the controls that are used to operate the DVD player. When buttons serve a function for both the DVD player and the AVR, the complete description of how the button operates with the DVD player is found on page 9 of the owner's manual included in the DVD player carton.

IMPORTANT NOTE: The RCP 2 may be programmed to control up to eight devices, including the AVR and DVD. Before using the remote, it is important to remember to press the **Input Selector Button 5** that corresponds to the unit you wish to operate. The RCP 2 is also capable of operating a wide variety of other products using the control codes that are part of the remote. Before using the RCP 2 with other products, follow the instructions on pages 7–23 to program the proper codes for the products in your system.

It is also important to remember that many of the buttons on the RCP 2 take on different functions, depending on the product selected using the Device Control Selectors. The descriptions shown here primarily detail the functions of the RCP 2 when it is used to operate the AVR and DVD player that comes with your CP Series System. (See page 10 for information about alternate functions for the RCP 2's buttons.)

Before using the remote, remember to install the three supplied AAA batteries in the compartment on the bottom of the RCP 2, as shown in the diagram below. Be certain to follow the (+) and (–) polarity indicators that are printed on the bottom of the battery compartment.



1 Power Off Button: Press this button to place the AVR, DVD player or a selected device in the Standby mode.

2 IR Transmitter Window: Point this window towards the AVR or DVD player when pressing buttons on the remote to make certain that infrared commands are properly received.

3 Program/SPL Indicator: This three-color indicator is used to guide you through the process of programming the remote. It is also used as a level indicator when using the remote's EzSet capabilities. See page 7 for information on programming the remote.

4 Power On Button: Press this button to turn on the power to a device selected by pressing one of the **Input Selectors 5**.

5 Input Selectors: Pressing one of these buttons will perform three actions at the same time. First, if the AVR is not turned on, it will power up the unit. Next, it will select the source shown on the button as the input to the AVR. Finally, it will change the remote control so that it controls the device selected. After pressing one of these buttons you must press the **AVR Selector Button 6** again to operate the AVR's functions with the remote.

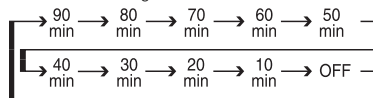
6 AVR Selector: Pressing this button will switch the remote so that it will operate the AVR's functions. If the AVR is in the Standby mode, it will also turn the AVR on.

7 AM/FM Tuner Select: Press this button to select the AVR's tuner as the listening choice. Pressing this button when the tuner is already in use will select between the AM and FM bands.

8 Dim Button: Press this button to activate the Dimmer function, which reduces the brightness of the front-panel display, or turn it off entirely. The first press of the button shows the default state, which is full brightness by indicating **VFD FULL** in the **Lower Display Line 30**. Press the button again within five seconds to reduce the brightness by 50%, as indicated by **VFD HALF** showing in the **Lower Display Line 30**. Press the button again within five seconds and the main display will go completely dark. Note that this setting is temporary, in that regardless of any changes, the display will always return to full brightness when the AVR is turned on. In addition, the **Power Indicator 2** will always remain at full brightness regardless of the setting. This is to remind you that the AVR is still turned on.

9 Test Button: Press this button to begin the sequence used to calibrate the AVR's output levels.

10 Sleep Button: Press this button to place the unit in the Sleep mode. After the time shown in the display, the AVR will automatically go into the Standby mode. Each press of the button changes the time until turn-off in the following order:



This button may also be used to change channels on your TV, VCR, cable box or satellite receiver.

11 DSP Surround Mode Selector: Press this button to cycle through the DSP, VMaX® and Stereo surround modes such as Hall, Theater, VMaX Near and Far, and Surround Off. This button is also used to tune channels when the TV, VCR or Cable/Satellite is selected using the device **Input Selector 5**.

12 Night/Info Mode: Press this button to activate the Night mode. This mode is available in specially encoded digital sources, and it preserves dialogue (center channel) intelligibility at low volume levels. When used to control the DVD player, this button has the same function as the Info Button described in the DVD owner's manual. Press it to display on-screen information about the disc currently loaded in the DVD player.

13 Channel Select/Title Button: This button is used to start the process of setting the AVR's output levels to an external source. Once this button is pressed, use the AVR's **▲/▼ Buttons 14** to select the channel being adjusted, then press the **Set Button 16**, followed by the **▲/▼ Buttons 14** again, to change the level setting. When the RCP 2 is used to control the DVD player, this button has the same function as the **Title Button** as described in the DVD owner's manual. Press it to jump to the next title (if available) on the disc being played.

14 ▲/▼ Buttons: These multipurpose buttons are used to change or scroll through items in the on-screen AVR or DVD menus, make configuration settings or select surround modes. When changing a setting on the AVR, first press the button for the function or setting to be changed (e.g., press the **DSP Surround Mode Selector 11** to select a sound field mode or the **Digital Select Button 17** to change a digital input) and then press one of these buttons to scroll through the list of options or to increase or decrease a setting. The sections in the AVR manual describing the individual features and functions contain specific information on using these buttons for each application. When the RCP 2 is being programmed with the codes to operate another device, this button is also used in the "Auto Search" process. (See page 7 for more information on programming the remote.)

15 ◀▶ Buttons: These buttons are used to change the menu selection or setting during some of the setup procedures for the AVR.

NOTE: When using the DVD, the **◀▶/▲/▼ Buttons** have the same function as the **Navigation Buttons** described in the DVD owner's manual. Press them to navigate through the Setup functions of the player or the menu for a DVD.

16 Set/Enter Button: This button is used to enter settings into the AVR's memory. It is also used in the setup procedures for delay time, speaker configuration and channel output level adjustment. When the RCP 2 is used to control the DVD, this button has the same function as the **Enter Button** as described in the DVD owner's manual. Press it to activate the highlighted setting in a menu for either player setup or the disc currently being played.

17 Digital Select/Eject Button: Press this button to assign one of the AVR's digital inputs to a source. When the RCP 2 is used to control the DVD player, this button has the same function as the **Eject (Open/Close) Button** as described in the DVD owner's manual. Press it to open or close the disc drawer.

18 Numeric Keys: These buttons serve as a 10-button numeric keypad to enter tuner preset positions. They are also used to select channel numbers when TV, VCR, Cable or SAT has been selected on the remote, or to select track numbers on the DVD, depending on how the RCP 2 has been programmed.

19 Tuner Mode/Repeat A-B Button: Press this button when the tuner is in use to select between automatic tuning and manual tuning. When the button is pressed so that **MANUAL** appears in the **Lower Display Line 30**, pressing the **Tuning Buttons**

21 9 will move the frequency up or down in single-step increments. When the FM band is in use, pressing this button when a station's signal is weak will change to monaural reception. When used to control the DVD player, this button has the same function as the Repeat A-B Button described in the DVD owner's manual. Press it once to mark the beginning of the passage you wish to repeat, and press it again to mark the end of the passage. Press it a third time to cancel the repeated play.

20 Direct/Angle Button: Press this button when the tuner is in use to start the sequence for direct entry of a station's frequency. After pressing the button, simply press the proper **Numeric Keys 18** to select a station. When the remote is used to control the DVD, this button has the same function as the **Angle Button** as described in the DVD owner's manual. Press it to change the viewing angle on discs equipped with that capability. It may also be used to rotate a JPEG still image as described in the DVD owner's manual.

21 Tuning Up/Down/Pic +/-: When the tuner is in use, these buttons will tune up or down through the selected frequency band. If the **Tuner Mode Button 19 17** has been pressed so that **AUT 0** appears in the on-screen display and **Lower Display Line 30**, pressing and holding either of the buttons for three sec-

onds will cause the tuner to seek the next station with acceptable signal strength for quality reception. When **MANUAL** appears in the **Lower Display Line 30**, pressing these buttons will tune stations in single-step increments. When used to control the DVD player, these buttons have the same function as the Pic+ and Pic- Buttons described in the DVD owner's manual. Press either button to advance forward or backward through the JPEG still images stored on a disc.

22 OSD Button: Press this button to activate the On-Screen Display (OSD) system used to set up or adjust the AVR's parameters. It may also be used to access the DVD's on-screen menu system when that device has been selected.

23 Dolby Mode Selector/Zoom: This button is used to select from among the available Dolby* Surround processing modes. Each press of this button will select one of the Dolby Pro Logic** II modes or Dolby 3 Stereo, Dolby Pro Logic IIx or Dolby Virtual speaker, when available. When a Dolby Digital-encoded source is in use, the Dolby Digital mode may also be selected. This button may also be used to control the Zoom feature as described in the DVD owner's manual. The Zoom feature is available, to varying degrees, with DVD, VCD and JPEG discs.

24 DTS Digital Mode Selector/Random: When a DTS®-encoded digital source is selected, each press of this button will scroll through the available DTS modes. The specific choice of modes will vary according to whether or not the source material contains DTS-ES® 6.1 Discrete encoding. When a DTS source is not in use, this button has no function. However, when used to control the DVD player, this button has the same function as the Random Button described in the DVD owner's manual, enabling you to randomize play of audio tracks on CDs, MP3 and WMA discs.

25 Logic 7 Mode Select/Video Off Button: Press this button to select from among the available Logic 7® surround modes. When used to control the DVD player, this button has the same function as the Video Off Button described in the DVD Owner's Manual, and may be used to temporarily disable the video circuits during audio playback.

26 Skip Chapter Up/Down Buttons: These buttons are preprogrammed to have the same function as the **Skip Buttons** as described in the DVD Owner's Manual. Pressing these buttons will go to the beginning of the current chapter or track or the start of the next chapter or track, depending on whether a DVD or CD is playing. Press the button again to step back or forward through the available chapters or tracks on the disc. To step one frame at a time, press the **Pause Button 27**, then select either the Skip Up or Skip Down buttons.

27 Transport Controls: These buttons are pre-programmed with the same functions as the **Search (Rev) ◀◀, Play ▶, Search (Fwd) ▶▶, Stop ■ and Pause ||** buttons on the DVD player. Press them to operate the respective transport functions. The **Record** button may be used when a VCR, tape deck, CDR or other recording device has been selected. The **Forward** and **Reverse Search Buttons** operate at fast speeds as described in the DVD owner's manual when pressed repeatedly. To engage the **Slow Search** speeds, press the **Pause Button** first, then repeatedly press the desired **Forward** or **Reverse Search Button**.

28 Stereo Mode Select/Display Button: When the button is pressed so that **DSP SURR OFF** appears in the **Lower Display Line 30**, the AVR will operate in a bypass mode with true, fully analog, two-channel left/right stereo mode with no surround processing or bass management, as opposed to other modes where digital processing is used. When the button is pressed so that **SURROUND OFF** appears in the **Lower Display Line 30**, you may enjoy a two-channel presentation of the sound along with the benefits of bass management. Depending on whether your system is configured for 5.1 or 6.1/7.1 channels, the next press of the button will cause either **5 CH STEREO** or **7 CH STEREO** to appear, and the stereo signal will be routed to all five (or seven) speakers. When used to control the DVD player, this button has the same function as the **Display Button** as described in the DVD owner's manual. Press it to reduce the brightness of the DVD's front-panel display to half, and again to turn the front-panel display off completely. Press it once more to restore the display to full brightness.

29 DTS Neo:6 Mode Select/Repeat: Press this button to select a DTS Neo:6 mode. These modes take a two-channel stereo- or matrix surround-encoded source and create a full five-, six- or seven-channel sound field. When used to control the DVD player, this button has the same function as the **Repeat Button** described in the DVD owner's manual, enabling you to repeat play of a chapter, title, track, folder, disc or programmed playlist.

30 Macro Buttons: Press these buttons to store or recall a "Macro", which is a preprogrammed sequence of commands stored in the remote. (See page 8 for more information on storing and recalling macros.)

REMOTE CONTROL FUNCTIONS

31 Disc Skip Button: This button has no direct function for the AVR but is most often used to change to the next disc in a CD or DVD changer when the RCP 2 is programmed for that type of device. (See page 10 for more information on using the remote with other products.)

32 Preset Down/Status Button: When the tuner is in use, press this button to scroll through the stations programmed into the AVR's memory. When the remote is used to control the DVD, this button has the same function as the **Status** button on the DVD player. Press it while playing a DVD, VCD, SVCD, MP3, WMA or JPEG selection to display the Status Bar.

33 Preset Up/Playlist Button: When the tuner is in use, press this button to scroll up through the stations programmed into the AVR's memory. When the remote is used to control the DVD, this button has the same function as the **Playlist** button described in the DVD owner's manual. Press it to select playback in the order the tracks appear on the disc, or to play a programmed playlist of tracks instead.

34 Clear Button: Press this button to clear incorrect entries when using the remote to directly enter a radio station's frequency. When the remote is used to control the DVD, this button has the same function as the **Clear Button** as described in the DVD owner's manual. Press it to remove an on-screen menu.

35 Memory/Audio Button: Press this button to enter a radio station into the AVR's preset memory. First, tune to the desired station, and then press this button. Two underline indicators will flash at the right side of the **Upper Display Line 29**, and within five seconds press the **Numeric Keys 18** for the preset number between 01 and 30 that you wish to assign to the station. When the remote is used to control the DVD, this button has the same function as the **Audio Button** as described in the DVD owner's manual. Press it to change the audio language or format type on the disc being played.

36 Delay/Previous Channel Button: Press this button to begin the process for setting the delay times used by the AVR when processing surround sound. After pressing this button, the delay times are entered by pressing the **Set Button 16** and then using the **▲/▼ Buttons 14** to change the setting. Press the **Set Button 16** again to complete the process. When the remote is used to control a TV, VCR, cable box or satellite receiver, this button functions as the **Previous Channel** or "Flashback" button when properly programmed.

37 Speaker Select/Disc Menu Button: Press this button to begin the process of configuring the AVR's bass-management system for use with the type of speakers used in your system. Once the button has been pressed, use the **▲/▼ Buttons 14** to select the channel you wish to set up. Press the **Set Button 16** again, and use the **▲/▼ Buttons 14** to select the speaker size, as described in the AVR owner's manual. Press the **Set Button 16** to select another channel to configure. When all adjustments have been completed, press the **Set Button 16** twice to exit the settings and return to normal operation. When the remote is used to control the DVD, this button has the same function as the **DVD's Disc Menu Button**. Press it to view the menu on a DVD disc.

38 Multiroom/Subtitle Button: When the remote is used to control the DVD player, this button has the same function as the **Subtitle Button** as described in the DVD owner's manual. Press it to turn the subtitles on or off, or to select from the various subtitle languages that the disc may offer. When used with the AVR 335, as part of the CP 35 system only, this button activates the Multiroom system.

39 Volume Up/Down: Press these buttons to raise or lower the system volume.

40 SPL Selector: This button activates the AVR's EzSet function to quickly and accurately calibrate the AVR's output levels. Press and hold the button for three seconds and then release it. Press the "7" **Numeric Key 18** to indicate that you are using a 6.1/7.1-channel speaker system with the AVR. If you install only five speakers, with no rear surround channel, press the "5" **Numeric Key 18**. The test tone will begin circulating, and the **Program/SPL Indicator 3** will change colors. During this sequence, EzSet will automatically adjust the output levels for all channels until they are equal, as shown by the **Program/SPL Indicator 3** lighting green for each channel. Press this button again when the adjustment is complete to turn off the test tone. See page 2 for more information. If you have a CP 35 system, we recommend that you use the EzSet+ function described in the AVR 335 manual, as it provides additional benefits over EzSet.

41 Learn Button: Press this button to begin the process of "learning" the codes from another product's remote into the AVR's remote. (See page 7 for more information on using the remote's learning function.)

42 6-Channel/8-Channel Direct Input: Press this button to select the device connected to the AVR's **6/8-Channel Direct Inputs**.

43 Mute: Press this button to momentarily silence the AVR or TV set being controlled, depending on which device has been selected. When the RCP 2 is being programmed to operate another device, this button is pressed with the **Input Selector Button 5** to begin the programming process. (See page 7 for more information on programming the remote.)

44 EzSet Sensor Microphone: The sensor microphone for the EzSet microphone is behind these slots. When using the remote to calibrate speaker output levels using EzSet, be sure that you do not hold the remote in a way that covers these slots.

Your new Harman Kardon CP Series System is equipped with the powerful RCP 2 remote control that will control not only the receiver's functions, but also most popular brands of audio and video equipment, including CD players, cassette decks, TV sets, cable boxes, VCRs, satellite receivers and other home theater equipment. Once the RCP 2 is programmed with the codes for the products you own, it is possible to eliminate most other remotes and replace them with the convenience of a single universal remote control.

Programming Product Codes

The RCP 2 is factory-programmed for all AVR functions, as well as for those of most Harman Kardon CD changers, DVD players, CD players and cassette decks. In addition, by following one of the methods below, you may program the remote to operate a wide range of devices from other manufacturers.

Direct Code Entry

This method is the easiest way to program your remote to work with different products.

1. Use the tables in the following pages to determine the three-digit code or codes that match both the product type (e.g., VCR, TV) and the specific brand name. If there is more than one number for a brand, make note of the different choices.
2. Turn on the unit you wish to program into the RCP 2.
3. Press and hold both the **Input Selector 5** for the product you wish to control (e.g., VCR, TV) and the **Mute Button 43** at the same time. When the red light under the **Input Selector 5** stays lit and the **Program/SPL Indicator 3** turns amber and begins flashing, release the buttons. It is important that you begin the next step within 20 seconds.
4. Point the RCP 2 towards the unit to be programmed, and enter the first three-digit code number using the **Numeric Keys 18**. If the unit turns off, the correct code has been entered. Press the **Input Selector 5** again, and note that the red light will flash three times before going dark to confirm the entry.
5. If the device to be programmed in does NOT turn off, continue to enter three-digit code numbers until the equipment turns off. At this point, the correct code has been entered. Press the **Input Selector 5** again and note that the red light under the **Input Selector 5** will flash three times before going dark to confirm the entry.
6. Try all of the functions on the RCP 2 to make certain that the product operates properly. Keep in mind that many manufacturers use a number of

different combinations of codes, so it is a good idea to make certain that not only the power control, but the volume, channel and transport controls work as they should. If functions do not work properly, you may need to use a different remote code.

7. If a code cannot be entered to turn the unit off, if the code for your product does not appear in the tables in this manual, or if not all functions operate properly, try programming the remote with the Auto Search Method.

Auto Search Method

If the unit you wish to include in the RCP 2 is not listed in the code tables in this manual or if the code does not seem to operate properly, you may wish to program the correct code using the Auto Search method that follows:

1. Turn on the unit that you wish to include in the RCP 2.
2. Press the **Input Selector 5** for the type of product to be entered (e.g., VCR, TV) and the **Mute Button 43** at the same time. Hold both buttons until the red light under the **Input Selector 5** stays lit and the **Program/SPL Indicator 3** turns amber and begins flashing. The next step must take place while the red light is on, and it must begin within 20 seconds after the light appears.
3. Point the RCP 2 toward the unit to be programmed, and press either **▲ or ▼ Button 14**. Each press will send out a series of codes from the RCP 2's built-in database. When the unit being programmed turns off, release **▲▼ Button 14**, as that is your indication that the correct code is in use.
4. Press the **Input Selector 5**; the red light under the Input Selector will flash three times before going dark to confirm the entry.
5. Try all of the functions on the RCP 2 to make certain that the product operates. Keep in mind that many manufacturers use a number of different combinations of codes, and it is a good idea to make certain that not only the power control works, but also the volume, channel and transport controls, as appropriate. If all functions do not work properly, you may need to Auto-Search for a different code, or enter a code via the Direct Code Entry method.

Code Readout

When the code has been entered using the Auto Search method, it is always a good idea to find out the exact code so that it may be easily reentered if necessary. You may also read the codes to verify which device has been programmed to a specific Control Selector button.

1. Press and hold both the **Input Selector 5** for the device you wish to find the code for and the **Mute Button 43** at the same time. The **Program/SPL Indicator 3** will turn amber and begin flashing, and the red light under the **Input Selector 5** will stay lit. Release the buttons and begin the next step within 20 seconds.
2. Press the **Set Button 16**. The **Program/SPL Indicator 3** will then blink green in a sequence that corresponds to the three-digit code, with a one-second pause between each digit. Count the number of blinks between each pause to determine the digit of the code. One blink is the number 1, two blinks is the number 2, and so forth. Ten blinks are used to indicate a "0".

Example: One blink, followed by a one-second pause, followed by six blinks, followed by a one-second pause, followed by ten blinks indicates that the code has been set to 160.

For future reference, enter the setup codes for the equipment in your system here:

DVD _____ CD _____
 VID1/VCR _____ VID2/CBL _____
 VID2/SAT _____ VID3/TV _____
 VID4* _____ TAPE _____

* The AVR 135 has no Video 4 source input; therefore, remote commands associated with the VID4 button will not have any effect on the AVR 135, although you may use the remote to operate another component.

Learning Codes

In addition to using codes from the remote's internal code library, the RCP 2 is able to "learn" codes from remotes that may not be in the code library. In addition, this function will allow you to program additional codes from the DVD remote or to "learn over" the codes from a preprogrammed device to add functions not included in the preprogrammed codes. To learn or transfer codes from an IR remote to the RCP 2, follow these steps:

1. Place the front of the original remote with the code being sent so that it is facing the **IR Transmitter Window 2** on the RCP 2 "head-to-head." The two remotes should be between one and three inches apart.
2. Select the button on the RCP 2 that you wish to use as the device selector for the codes about to be entered. This may be any of the **Input Selectors 5**.

PROGRAMMING THE REMOTE

3. Press the **Input Selector 5** button chosen and the **Learn Button 41** at the same time. Hold these buttons until the **Program/SPL Indicator 3** flashes amber and the light under the device selector button turns red. Release the buttons.

4. Press the button on the RCP 2 that you wish to program. The **Program/SPL Indicator 3** will stop flashing.

5. Within 5 seconds, press and hold the button on the original remote that you wish to "teach" into the RCP 2. When the **Program/SPL Indicator 3** turns green three times, release the button. The Program Indicator will then begin to flash amber again.

NOTE: If the **Program/SPL Indicator 3** turns red during Step 4 or 5, the programming was not successful. Repeat the steps to see whether the code will "take."

6. Repeat Steps 4 and 5 for each button on the source remote that you wish to transfer to the RCP 2 remote.

7. Once all codes have been transferred from the original source remote to the RCP 2, press the **Learn Button 41**.

8. Repeat Steps 1 through 7 for any additional remotes you wish to "teach" into the RCP 2.

Erasing Learned Codes

The RCP 2 allows you to remove or erase the code learned into a single button for a single device, to remove or erase the code set for all the codes that have been programmed into specific device buttons, or to erase all commands that have been learned to all devices.

If you erase a code that is part of a macro, that macro sequence will no longer operate properly.

To erase a single learned code from within a single device's settings, follow these steps:

1. Press and hold both the **Input Selector 5 6** within which the individual button to be erased has been programmed and the **Learn Button 41**.

2. When the red LED under the **Input Selector** turns red and the **Program/SPL Indicator 3** flashes amber, release the buttons.

3. Press and release the **Input Selector 5 6** again for the device within which the individual button to be erased has been programmed.

4. Press the **7 Button 18** four times.

5. Press and release the individual button for which the code is to be erased. The **Program/SPL Indicator 3** will blink green twice and then return to amber.

6. To erase other buttons within the same device, press them as described in Step 5.

7. When all buttons to be erased have been pressed, press the **Learn Button 41** to complete the process.

To erase all codes within a single device, follow these steps:

1. Press and hold both the **Input Selector 5 6** for which you wish to erase the codes and the **Learn Button 41**.

2. When the red LED under the **Input Selector** turns red and the **Program/SPL Indicator 3** flashes amber, release the buttons.

3. Press and release the **Input Selector 5 6** again for the device whose codes you wish to erase.

4. Press the **8 Button 18** four times.

5. The **Program/SPL Indicator 3** will turn off and the red light under the **Input Selector** will flash on and off once to indicate that the codes have been erased.

To erase all codes that have been programmed to all devices in the remote, follow these steps:

1. Press any **Input Selector 5 6** for which you wish to erase the codes and also the **Learn Button 41**.

2. When the red LED under the **Input Selector** turns red and the **Program/SPL Indicator 3** flashes amber, release the buttons.

3. Press and release the **Input Selector 5 6** again for the device whose codes you wish to erase.

4. Press the **9 Button 18** four times.

5. The **Program/SPL Indicator 3** will turn off and the red light under the **Input Selector** will flash on and off once to indicate that the codes have been erased.

Macro Programming

Macros enable you to easily repeat frequently used combinations of commands with the press of a single button on the RCP 2. Once programmed, a macro will send out up to 19 different remote codes in a predetermined sequential order, enabling you to automate the process of turning on your system, changing devices, or other common tasks. The RCP 2 can store up to five separate macro command sequences: one that is associated with the **Power On Button 4** and four more that are accessed by pressing the **Macro Buttons 30**.

1. Press the **Mute Button 43** and the **Macro Button 30** to be programmed or the **Power On Button 4** at the same time. An **Input Selector** will light red, and the **Program/SPL Indicator 3** will flash amber.

2. Enter the steps for the macro sequence by pressing the button for the actual command step. Although the macro may contain up to 19 steps, each button press, including those used to change devices, counts as a step. The **Program/SPL Indicator 3** will flash green to confirm each button press as you enter commands.

NOTE: While entering commands for Power On/Off of any device during a macro sequence, press the **Mute Button 43**. DO NOT press the actual Power button.

3. When all the steps have been entered, press the **Sleep Button 10** to enter the commands. The red light under the **Input Selectors 5 6** will blink and then turn off.

Example: To program the Macro 1 button so that it turns on the AVR, TV and a cable box, follow these steps:

- Press the **Macro 1 Button 30** and **Mute Button 43** at the same time and then release them.
- Note that the **Program/SPL Indicator 3** will flash amber.
- Press the **AVR Selector 6**.
- Press the **Mute Button 43** to store the AVR's power on command.
- Press the **VID 3 Input Selector Button 5** to indicate the next command is for "TV Power On."
- Press the **Mute Button 43** to store the TV Power On Command.
- Press the **VID 2 Input Selector Button 5** to indicate the next command is for "Cable Power On."
- Press the **Mute Button 43** to store the Cable Power On command.
- Press the **Sleep/Channel Up Button 10** to complete the process and store the macro sequence.

After following these steps, each time you press the **Macro 1 Button 30** the remote will send the Power On/Off command.

Erasing Macro Commands

To remove the commands that have been programmed into one of the Macro buttons, follow these steps:

1. Press the **Mute Button 43** and the **Macro Button 30** that contains the commands you wish to erase.
2. The **Program/SPL Indicator 3** will flash amber, and the LED under the **AVR Selector 6** will turn red.
3. Within ten seconds, press the **Surround Mode Selector/Channel Down Button 11**.
4. The red LED under the **AVR Selector 6** will go out, and the **Program/SPL Indicator 3** will turn green and flash three times before it goes out.
5. When the **Program/SPL Indicator 3** goes out, the Macro has been erased.

Volume Punch-Through

The RCP 2 may be programmed to operate the **Volume Control 39** and **Mute 43** functions of either the TV or the AVR in conjunction with any of the devices controlled by the remote. For example, since the AVR will likely be used as the sound system for TV viewing, you may wish to have the AVR's volume activated, although the remote is set to run the TV. Either the AVR or TV volume control may be associated with any of the RCP 2's devices. The factory default is to have the AVR's volume controls active for all devices except CD and TAPE. To program the remote for Volume Punch-Through, follow these steps:

1. Press the **Input Selector 5** for the unit you wish to have associated with the volume control and the **Mute Button 43** at the same time until the red light appears under the **Input Selector 5**; the **Program/SPL Indicator 3** will flash amber.
2. Press the **Volume Up Button 39**; the **Program/SPL Indicator 3** will stop flashing and stay amber.
3. Press either the **AVR Selector 6** or the **Input Selector 5**, depending on which system's volume control you wish to have attached for the punch-through mode. The **Program/SPL Indicator 3** will blink green three times and then go out to confirm the data entry.

Example: To have the AVR's volume control activated even though the RCP 2 is set to control the TV, first press the **VID 3/TV Input Selector 5** and the **Mute Button 43** at the same time. Next, press the **Volume Up Button 39**, followed by the **AVR Selector 6**.

NOTE: Should you wish to return the RCP 2 to the original configuration after entering a Volume Punch-Through, you will need to repeat the steps shown above. However, press the same Input Selector in Steps 1 and 3.

Channel Control Punch-Through

The RCP 2 may be programmed to operate so that the channel control function for either the TV, cable or satellite receiver used in your system may be used in conjunction with one of the other devices controlled by the remote. For example, while using and controlling the VCR, you may wish to change channels on a cable box or satellite receiver without having to change the device selected by the AVR or the RCP 2. To program the remote for Channel Control Punch-Through, follow these steps:

1. Press the **Input Selector Button 5** for the device you wish to have the channel control associated with and the **Mute Button 43** at the same time until the red light appears under the **Input Selector 5** and the **Program/SPL Indicator 3** flashes amber.
2. Press the **Volume Down Button 39**. The **Program/SPL Indicator 3** will stop flashing and stay amber.
3. Press and release the **Input Selector Button 5** for the device that will be used to change the channels. The **Program/SPL Indicator 3** will blink green three times and then go out to confirm the data entry.

Example: To control the channels using your cable box or satellite receiver while the RCP 2 is set to control the VCR, first press the **VID 1/VCR Input Selector Button 5** and the **Mute Button 43** at the same time. Next, release them and press the **Volume Down Button 39**, followed by the **VID 3/TV Input Selector Button 5**.

NOTE: To remove the Channel Control Punch-Through and return the RCP 2 to its original configuration, repeat the steps shown in the example above. However, press the **VID 1/VCR Input Selector 5** in Steps 1 and 3.

Transport Control Punch-Through

The RCP 2 may be programmed to operate so that the **Transport Control Functions 27** (Play, Stop, Fast Forward, Rewind, Pause and Record) for a VCR, DVD or CD will operate in conjunction with one of the other devices controlled by the RCP 2. For example, while using and controlling the TV, you may wish to start or stop your VCR or DVD without having to change the device selected by the AVR or the RCP 2. The factory default is to have the DVD's transport controls active for

all devices except CD and TAPE. To program the remote for Transport Control Punch-Through, follow these steps:

1. Press the **Input Selector 5** for the device you wish to have the channel control associated with and the **Mute Button 43** at the same time until the red light appears under the **Input Selector 5** and the **Program/SPL Indicator 3** flashes amber.
2. Press the **Play Button 27**. The **Program/SPL Indicator 3** will stop flashing and stay amber.
3. Press and release the **Input Selector Button 5** for the device that will be used to change the channels. The **Program/SPL Indicator 3** will blink green three times and then go out to confirm the data entry.

Example: To control the transport of the DVD while the RCP 2 is set to control the TV, first press the **VID 3/TV Input Selector Button 5** and the **Mute Button 42** at the same time. Next, release them and press the **Play Button 27**, followed by the **DVD Input Selector Button 5**.

NOTES:

- To remove the Channel Control Punch-Through and return the RCP 2 to its original configuration, repeat the steps in the example above. However, press the **VID 3/TV Input Selector 5** in Steps 1 and 3.
- Before programming the RCP 2 for Volume, Channel or Transport Punch-Through, make certain that any programming needed for the specific TV, CD, DVD, cable or satellite receivers has been completed.

Reassigning Device Control Selectors

Although each **Input Selector 5** is normally assigned to the category of product shown on the RCP 2, it is possible to reassign one of these buttons to operate a second device of another type. For example, if you have two VCRs but no satellite receiver, you may program the "SAT" button to operate a second VCR. Before following the normal programming steps for either Three-Digit entry or Auto Search code entry, you must first reassign the button with the following steps:

1. Press the **Input Selector 5** you wish to reassign and the **Mute Button 43** at the same time until the red light appears under the **Input Selector 5** and the **Program/SPL Indicator 3** flashes amber.
2. Press the **Input Selector 5** for the device you wish to program into the reassigned button.
3. Enter the three-digit code for the specific model you wish the reassigned button to operate.
4. Press the same **Input Selector 5** pressed in Step 1 once again to store the selection. The red

PROGRAMMING THE REMOTE

LED under the reassigned Input Selector will flash three times and then go out.

Example: To use the CBL/SAT button to operate a second VCR, first press the **VID 2/CBL/SAT Input Selector 5** and the **Mute Button 43** at the same time until the red light glows under the **VID 2/CBL/SAT Button 5**. Press the **VCR Button 5**, followed by the three-digit code for the specific model you wish to control. Finally, press the **VID 2/CBL/SAT Button 5** again.

Resetting the RCP 2's Memory

As you add components to your home theater system, occasionally you may wish to totally reprogram the remote control without the confusion of any commands, macros or "Punch-Through" programming that you may have done. To do this, it is possible to reset the RCP 2 to the original factory defaults and command codes by following these steps. However, once the remote is reset, all commands or codes that you have entered will be erased and will need to be reentered:

1. Press any of the **Input Selector Buttons 5** and the **"0" Button 18** at the same time until the **Program/SPL Indicator 3** begins to flash amber.
2. Press the **"3" Button 18** three times.
3. The red LED under the **Input Selector 5** will go out and the **Program/SPL Indicator 3** will stop flashing and turn green.
4. The **Program/SPL Indicator 3** will remain green until the RCP 2 is reset. Note that this may take a while, depending on how many commands are in the memory and need to be erased.
5. When the **Program/SPL Indicator 3** goes out, the RCP 2 has been reset to the factory settings.

Programmed Device Functions

Once the RCP 2 has been programmed for the codes of other devices, press the appropriate **Input Selector 5** to change the remote from controlling the AVR to controlling the additional product. When you press any one of the selectors, it will briefly flash in red to indicate that you have changed the device being controlled.

When operating a device other than the AVR, the controls may not correspond exactly to the function printed on the remote or button. Some commands, such as the volume control, are the same as they are with the AVR. Other buttons will change their function so that they correspond to a secondary label on the remote. For example, the Sleep and Surround mode selector buttons also function as the Channel Up and Channel Down buttons when operating most TV sets, VCRs or cable boxes. The Channel Up/Down indication is printed

directly on the remote. For many standard CD players, cassette decks, VCRs and DVD functions, the standard function icons are printed on top of the buttons.

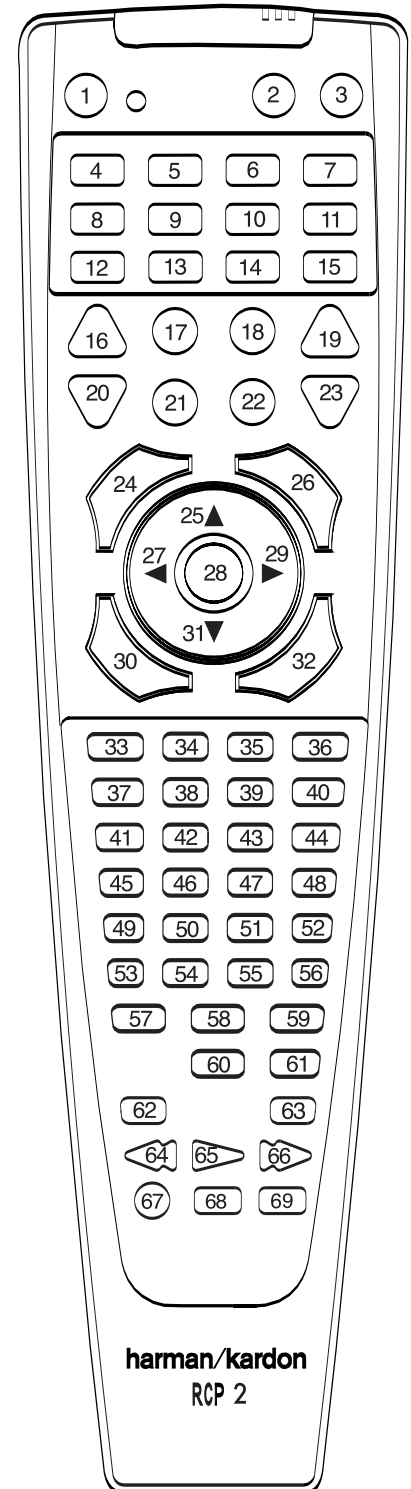
For some products, however, the function of a particular button does not follow the command printed on the remote. In order to see which function a button controls, consult the Function List tables on pages 11 and 12. To use those tables, first check the type of device being controlled (e.g., TV, VCR). Next, look at the remote control diagram in the figure at right. Note that each button has a number on it.

To find out what function a particular button has for a specific device, find the button number on the Function List and then look in the column for the device you are controlling. For example, button number 46 is the Direct button for the AVR, but it is the "Favorite" button for many cable television boxes and satellite receivers. Button number 30 is the Digital Selection button for the AVR, but the Open/Close button for CD players.

NOTE: The numbers used to describe the button functions in the diagram on this page for the purposes of describing how a button operates are a different set of numbers than those used in the rest of this manual to describe the button functions for the AVR.

Notes on Using the RCP 2 With Other Devices

- Manufacturers may use different code sets for the same product category. For that reason, it is important that you check to see whether the code set you have entered operates as many controls as possible. If it appears that only a few functions operate, check to see whether another code set will work with more buttons.
- When a button is pressed on the RCP 2, the red light under the **Input Selector 5** for the product being operated should flash briefly. If the Device Control Selector flashes for some but not all buttons for a particular product, it does NOT indicate a problem with the remote but rather that no function is programmed for the button being pushed.



FUNCTION LIST

No.	Button Name	AVR Function	DVD	CD/CD-R	Tape	VCR (VID1)	CBL (VID2)	SAT (VID2)	TV (VID3)
1	Power On	Power On	Power On	Power On		Power On	Power On	Power On	Power On
2	Power Off	Power Off	Power Off	Power Off		Power Off	Power Off	Power Off	Power Off
3	Mute	Mute	Mute			Mute	Mute	Mute	Mute
4	AVR	AVR Select	AVR Select	AVR Select	AVR Select	AVR Select	AVR Select	AVR Select	AVR Select
5	DVD	DVD Input Select	DVD Select	DVD Select	DVD Select	DVD Select	DVD Select	DVD Select	DVD Select
6	CD	CD Input Select	CD Select	CD Select	CD Select	CD Select	CD Select	CD Select	CD Select
7	Tape	Tape Input Select	Tape Select	Tape Select	Tape Select	Tape Select	Tape Select	Tape Select	Tape Select
8	VID 1 (VCR)	Video 1 Select	VCR Select	VCR Select	VCR Select	VCR Select	VCR Select	VCR Select	VCR Select
9	VID 2 (CBL/SAT)	Video 2 Select	VID2 Select	VID2 Select	VID2 Select	VID2 Select	CBL Select	SAT Select	VID2 Select
10	VID 3 (TV)	Video 3 Select	TV Select	TV Select	TV Select	TV Select	TV Select	TV Select	TV Select
11	VID 4	Video 4 Select	VID4 Select	VID4 Select	VID4 Select	VID4 Select	VID4 Select	VID4 Select	VID4 Select
12	Dim	Dim	Dim	Dim	Dim	Dim	Dim	Dim	Dim
13	AM/FM	Tuner Select	Tuner Select	Tuner Select	Tuner Select	Tuner Select	Tuner Select	Tuner Select	Tuner Select
14	6/8 Ch. Select	6/8 Ch. Input Select	6/8 Ch. Select	6/8 Ch. Select	6/8 Ch. Select	6/8 Ch. Select	6/8 Ch. Select	6/8 Ch. Select	6/8 Ch. Select
15	Learn	Learn	Learn	Learn	Learn	Learn	Learn	Learn	Learn
16	Sleep/Ch +	Sleep	Test			Channel +	Channel +	Channel +	Channel +
17	Test	Test Tone	TV/DVD	Input Select		TV/VCR	TV/CBL	TV/SAT	TV/VCR
18	SPL	EzSet/SPL	EzSet/SPL	EzSet/SPL	EzSet/SPL	EzSet/SPL	EzSet/SPL	EzSet/SPL	EzSet/SPL
19	Volume Up	Volume Up	Volume Up	Input Level Up		Volume Up	Volume Up	Volume Up	Volume Up
20	Surround Select/Ch -	Surround Mode Select	Subtitle On/Off	CDR Select		Channel -	Channel -	Channel -	Channel -
21	Night/Info	Night Mode Select	Info	CDP Select					
22	Multiroom/Subtitle	Multiroom Select	Subtitle						
23	Volume Down	Volume Down	Volume Down	Input Level Down		Volume Down	Volume Down	Volume Down	Volume Down
24	Channel/Guide/Title	Channel Trim	Title	Continuous Play			Info/Guide	Info/Guide	
25	▲	Move/Adjust Up	Up			Up	Up	Up	Up
26	Speaker/Menu	Speaker Adjust	Disc Menu	Intro Scan		Menu	Menu	Menu	Menu
27	◀	Move/Adjust Left	Left			Left	Left	Left	Left
28	Set	Set	Enter			Enter	Enter	Enter	Enter
29	▶	Move/Adjust Right	Right			Right	Right	Right	Right
30	Digital/Exit/Open/Close	Digital Input Select	Open/Close	Open/Close					
31	▼	Move/Adjust Down	Down			Down	Down	Down	Down
32	Delay/Prev. Ch.	Delay Adjust	Return				Prev Channel	Prev Channel	Prev Channel
33	1	1	1	1		1	1	1	1
34	2	2	2	2		2	2	2	2
35	3	3	3	3		3	3	3	3
36	4	4	4	4		4	4	4	4
37	5	5	5	5		5	5	5	5
38	6	6	6	6		6	6	6	6
39	7	7	7	7		7	7	7	7
40	8	8	8	8		8	8	8	8
41	Tun-M/A-B	Tuner Mode	A-B	Repeat					
42	9	9	9	9		9	9	9	9
43	0	0	0	0		0	0	0	0
44	Memory/Audio	Memory	Audio	Time					

FUNCTION LIST

No.	Button Name	AVR Function	DVD	CD/CD-R	Tape	VCR (VID1)	CBL (VID2)	SAT (VID2)	TV (VID3)
45	Tune Up/Pic+	Tune Up	Pic+	Track Direct		Cancel	PPV	Cancel	Sleep
46	Direct/Angle	Direct Tuner Entry	Angle	Random Play			FAV	FAV	
47	Clear	Clear	Clear	Clear		Clear	Bypass	Next	
48	Preset Up/Playlist	Preset Tune Up	Playlist	+10			Music	Alt	
49	Tune Down/Pic –	Tune Down	Pic –	Track Increment					
50	OSD	OSD	OSD	Program		OSD	OSD	OSD	OSD
51	D. Skip	Disc Skip (DVD)	Disc Skip	Disc Skip					
52	Preset Down/Status	Preset Tune Down	Status						
53	M1	Macro 1	Macro 1	Macro 1	Macro 1	Macro 1	Macro 1	Macro 1	Macro 1
54	M2	Macro 2	Macro 2	Macro 2	Macro 2	Macro 2	Macro 2	Macro 2	Macro 2
55	M3	Macro 3	Macro 3	Macro 3	Macro 3	Macro 3	Macro 3	Macro 3	Macro 3
56	M4	Macro 4	Macro 4	Macro 4	Macro 4	Macro 4	Macro 4	Macro 4	Macro 4
57	Dolby/Zoom	Dolby Mode Select	Zoom						
58	DTS Surr/Random	DTS Digital Modes	Random						
59	DTS Neo:6/Repeat	DTS Neo:6 Select	Repeat						
60	Logic 7/V. Off	Logic 7 Select	Video Off						
61	Stereo/Display	Stereo Mode Select	Display Dim						
62	Skip Down	Skip Down (DVD)	Chapter +	Skip –		Scan –	Skip Down (DVD)	Skip Down (DVD)	Skip Down (DVD)
63	Skip Up	Skip Up (DVD)	Chapter –	Skip +		Scan +	Skip Up (DVD)	Skip Up (DVD)	Skip Up (DVD)
64	Rewind	R. Search (DVD)	R. Search	R. Search	Rewind	Rewind	R. Search (DVD)	R. Search (DVD)	R. Search (DVD)
65	Play	Play (DVD)	Play	Play	Play	Play	Play (DVD)	Play (DVD)	Play (DVD)
66	Fast Forward	F. Search (DVD)	F. Search	F. Search	Fast Fwd	Fast Fwd	F. Search (DVD)	F. Search (DVD)	F. Search (DVD)
67	Record			Record	Record	Record			
68	Stop	Stop (DVD)	Stop	Stop	Stop	Stop	Stop (DVD)	Stop (DVD)	Stop (DVD)
69	Pause	Pause (DVD)	Pause	Pause		Pause	Pause (DVD)	Pause (DVD)	Pause (DVD)

SETUP CODE TABLE: TV

Manufacturer/Brand	Setup Code Number
A MARK	103 132
ADMIRAL	192 217
ADVENT	004
AKAI	001 160
AMPRO	070 164
AMSTRAD	053
ANAM	045 055 057 076 095 099 103 106 109 112 122 138 240
AOC	001 011 103
APEX	007
BLAUPUNKT	084
BROKSONIC	140 205 206
CANDLE	001 002 003 011
CAPEHART	059
CENTURION	170 171
CENTRONIC	045
CITIZEN	001 002 003 011 045 092 094 132
CLASSIC	045
CONCERTO	011
CONTEC	041 045 051 052
CORANDO	172
CORNEA SYSTEM	006
CORONADO	132
CRAIG	045 055 157 158 159
CROWN	045 132
CURTIS MATHES	001 011 092 132
CXC	045
DAEWOO	011 022 023 038 045 046 056 068 073 094 098 102 105 108 111 114 116 118 119 127 132 241
DAYTRON	011 132
DIGI LINK	200
DYNASTY	045
DYNATECH	063
ELECTROHOME	074 132
EMERSON	001 008 011 012 033 045 048 049 051 052 091 132 137 139 141 157 158 162 205
FISHER	013 058
FUJITSU	135
FUNAI	008 033 045
FUTURETECH	045
GE	001 011 014 015 038 057 070 071 121 133 141 145 163 199 219
GOLDSTAR (LG)	011 093 097 101 103 104 110 113 118 128 132
GRADIENTE	222
GRUNDIG	193
HAIER	009
HALL MARK	011
HARMAN KARDON	201
HITACHI	001 011 015 016 017 018 029 043 072 132 144 147
INFINITY	148
INKEL	120
JBL	148
JC PENNEY	001 011 014 015 030 035 092 132 145
JENSEN	019

SETUP CODE TABLE: TV

Manufacturer/Brand	Setup Code Number
JVC	010 038 040 079
KAWASHO	173
KEC	045
KENWOOD	001 204
KLOSS	002 060
KMC	132
KTV	001 045 132 162
LLOYTRON	172 173
LODGENET	069
LOGIK	069
LUXMAN	011
LXI	013 021 053 077 145 148
MAGNAVOX	001 003 011 060 061 062 064 065 066 118 132 145 148 220 226 227
MARANTZ	001 074 148
MATSUI	148
MEMOREX	011 013 069 230
METZ	084
MGA	001 011 033 044 050 074
MIDLAND	199
MINERVA	084
MITSUBISHI	001 011 030 033 042 044 100 115 134 154 160 167 168 229
MOTOROLA	221
MTC	175 176
NAD	021 031
NATIONAL	169 177 178 179 181 182
NEC	001 013 022 025 030 042 057 121 123 125
NIKEI	045
ONKING	045
ONWA	045
OPTONICA	025 077
ORION	207 208 209 210 211
PANASONIC	038 057 076 081 087 148 169
PENNEY	199
PHILCO	001 003 011 030 045 057 060 061 064 065 118 132 148
PHILIPS	001 003 011 040 060 066 067 088 132 145 148 242
PIONEER	001 011 024 029 031 032 213 214
PORTLAND	011 132
PROSCAN	133
PROTON	011 059 122 132 165
QUASAR	038 057 087
RADIO SHACK	011 025 045 048 118 132 195 196 197 198
RCA	001 011 029 030 057 071 082 133 145 161 163 199 224 225
REALISTIC	013 025 045 048 195 196 197
RUNCO	152 153
SAA	183
SAMPO	001 011 059
SAMSUNG	011 051 085 092 096 104 118 124 128 132 145 243
SANYO	013 026 027 037 041 054 058 078 216 228
SCOTT	011 033 045 049 132
SEARS	011 013 021 033 035 049 058 078 092 132 145

SETUP CODE TABLE: TV

Manufacturer/Brand	Setup Code Number
SHARP	011 020 025 028 033 034 077 086 132 154 244
SIEMENS	084
SIGNATURE	069
SONY	005 043 067 075 089 107 117 130 136 194 212 218 223
SOUNDESIGN	003 011 033 045
SPECTRICON	103
SSS	011 045
SUPREMACY	002
SYLVANIA	001 003 008 011 060 061 064 065 118 131 145 148 215
SYMPHONIC	008 184
TANDY	077
TATUNG	057 063
TECHNICS	080
TECHWOOD	011
TEKNIKA	001 002 003 011 030 033 036 045 069 074 092 094 132
TELEFUNKEN	039 047 083
TELERENT	069
TERA	156
THOMAS	008
THOMSON	190 191
TMK	011
TOSHIBA	013 021 035 042 052 063 092 126 129 202
TOTEVISION	132
UNIVERSAL	014 015
VIDEO CONCEPTS	160
VIDTECH	011
WARDS	011 014 015 025 033 061 062 064 065 069 071 132 148
WHITE WESTINGHOUSE	008
YAMAHA	001 011
YORK	011
YUPITERU	045
ZENITH	069 070 090 094 245
ZONDA	103

SETUP CODE TABLE: VCR

Manufacturer/Brand	Setup Code Number
AIWA	040
AKAI	022 048 050 108 109 126
AMPRO	076
AMSTRAD	133
ANAM	037 039 089
ASA	134
AUDIO DYNAMICS	018 029 044 048
BROKSONIC	041 043 110 147 166
CANDLE	134 135 137
CANON	034 037 039 135 140
CAPEHART	094
CITIZEN	134
CRAIG	003 045 116
CURTIS MATHES	037 039

SETUP CODE TABLE: VCR

Manufacturer/Brand	Setup Code Number
DAEWOO	012 014 017 068 069 094 096 097 098 102 103 104
DAYTRON	094
DBX	018 029 044 048
DUAL	136
DIRECTV-TIVO	189 190
DYNATECH	040 057
ELECTROHOME	063
EMERSON	013 023 031 033 035 037 040 041 042 043 050 087 110 112 119
FERGUSON	136
FINLUX	133
FISHER	003 015 016 017
FUNAI	040 133
GE	037 039 067 076 093 095 124 127
GO VIDEO	113 117
GOLDSTAR (LG)	018 019 026 087 092 100 107
GRAETZ	136
HARMAN KARDON	018 049
HITACHI	011 040 048 067 118 130
INSTANT REPLAY	037 039
ITT	136
JCL	037 039
JC PENNEY	018 019 021 039 045 070 087
JENSEN	048
JVC	018 037 039 048 052 054 059 064 111 130 132
KENWOOD	020 044 048 052
LLOYD	040
LXI	019 020 040 087
MAGIN	045
MAGNAVOX	037 039 040 071 072
MARANTZ	018 037 039 071 073
MARTA	087
MATSUI	033 036
MEI	037 039
MEMOREX	003 017 020 037 039 040 057 076 087 115 120
MGA	049 050 063
MINOLTA	019 026
mitsubishi	019 026 049 050 053 055 063 065 131 145 146 178
MOTOROLA	175 176
MTC	133
MULTITECH	030 040
NAD	139
NATIONAL	140
NEC	018 029 044 048 052
NORDMENDE	048
OPTIMUS	159
OPTONICA	057 058
ORION	147 166
PANASONIC	007 009 010 037 070 074 078 114 125 150 167 172 177 183 185 186
PENTAX	019 026 037 039 067
PHILCO	037 039 040 071

SETUP CODE TABLE: VCR

Manufacturer/Brand	Setup Code Number
PHILIPS	037 039 040 058 071 075 087 188
PILOT	087
PIONEER	019 027 052
PIONEER-TIVO	194
PORTLAND	094
PROSCAN	179 180
PULSAR	076
QUARTZ	001 020
QUASAR	039 070 079 125 144
RADIO SHACK	133 134 137 140 141 142 152 158 159 160 161
RCA	019 026 039 066 067 093 095 124 125 127 157 172 184
REALISTIC	003 015 017 020 037 039 040 045 057 058 087 137 152 159 160
REPLAY	192
RICO	062
RUNCO	128
SABA	136
SAISHO	143
SALORA	020
SAMSUNG	038 045 088 090 091 093 095 098 099 101 105 106 109 182
SANSUI	028 048 052 116 147 166
SANYO	003 014 017 020 115
SCHAUB LORENZ	136
SCOTT	023 043 098 110 112
SEARS	003 015 016 017 019 020 026 037 047 077 084 087
SHARP	006 037 058 129 156
SHINTOM	030
SONY	002 003 005 016 037 056 060 061 062 080 081 082 129 173
SONY-TIVO	191
SOUNDESIGN	040
STS	019
SYLVANIA	008 037 039 040 063 071
SYMPHONIC	040
TANDY	017 040
TASHICO	134
TATUNG	044 048
TEAC	040 044 048
TECHNICS	037 039
TEKNIKA	025 037 039 040 087
TELEFUNKEN	136
THOMAS	040
THOMSON	136
THORN	136
TIVO	187 193
TMK	013
TOSHIBA	015 019 047 051 063 085 098 112 155
TOSHIBA-TIVO	195
TOTEVISION	045 087
UNITECH	045
VECTOR RESEARCH	018
VICTOR	052

SETUP CODE TABLE: VCR

Manufacturer/Brand	Setup Code Number
VIDEO CONCEPTS	018 040 050
VIDEOSONIC	045
WARDS	003 019 023 030 037 039 040 045 057 058 112
YAMAHA	018 040 044 048
ZENITH	040 052 060 062 076 083 087 181

SETUP CODE TABLE: CD

Manufacturer/Brand	Setup Code Number
ADC	012
ADCOM	049 063 069
AIWA	072 111 118 156 170
AKAI	050 177 184
AUDIO TECHNICA	053
AUDIOACCESS	125
AUDIOFILE	211
BSR	044 064
CALIFORNIA AUDIO	015 109
CAPETRONIC	070
CARRERA	064 087
CARVER	051 057 136 140 141 143 144 145 185 186
CASIO	066 117 122
CLARINETTE	122
CROWN	042
CURTIS MATHES	066
DENON	187 188 213
EMERSON	049 052 108
FISHER	023 055 057 068
FRABA	117
FUNAI	126
GE	164
GENEXXA	017 096 108
GOLDSTAR (LG)	016 087
HAITAI	099 214
HARMAN KARDON	001 002 025 040 054 190 218 219 221 222 223 224 225 226 227 228 229 230 231
HITACHI	049
INKEL	026 027 216
JC PENNEY	021 066 098 147
JENSEN	153
JVC	029 176 195 196
KENWOOD	014 020 023 030 062 078 079 148 151 176 178 181
KYOCERA	012
LOTTE	108
LUXMAN	018 035 077 102
LXI	066 164
MAGNAVOX	039 051 113
MARANTZ	043 051 058 084 191 192 193
MCINTOSH	194
MCS	021 066 080 098

SETUP CODE TABLE: CD

Manufacturer/Brand	Setup Code Number
MEMOREX	096
MGA	032
MISSION	051
mitsubishi	032
MITSUMI	152
MODULAIRE	122
NAD	013 074 197 198
NAKAMICHI	199 200 201
NEC	021 069
NIKKO	053 055
NSM	051
ONKYO	037 038 045 046 171 175 202 203
OPTIMUS	020 036 056 057 064 065 089 090 091 092 096 099 104 212
PANASONIC	015 075 109 119 158 183 204
PHILIPS	039 051 138 149 209
PIONEER	017 036 071 094 096 100 112 123 131 160 161 162 215
PROTON	051 210
QUASAR	015 109
RADIO SHACK	122 126 213
RCA	024 049 081 150
RCX	169
REALISTIC	049 056 057 058 095 104 105 108 122 164
ROTEL	051
SAE	051
SAMSUNG	028
SANSUI	047 051 081 134 157 172
SANYO	033 057 068 082 095 168
SCOTT	108
SEARS	066
SHARP	020 058 073 105 114 151 159 167 180 181
SHERWOOD	003 026 027 041 058 105 133
SIGNATURE	040
SONY	060 103 115 116 118 132 139 163 205 206 207 208 212 217
SOUNDSTREAM	124
STS	012
SYLVANIA	051
SYMPHONIC	059 110
TAEKWANG	177
TANDY	096
TEAC	011 022 048 058 085 086 106 107 110 121 137 146 154
TECHWOOD	083
THETA DIGITAL	039
TOSHIBA	013 074 097 151 155 173
VECTOR RESEARCH	087
VICTOR	029 120 130
WARDS	040 095
YAMAHA	019 031 053 061 135 169
YORX	122

SETUP CODE TABLE: TAPE

Manufacturer/Brand	Setup Code Number
HARMAN KARDON	001

SETUP CODE TABLE: DVD

Manufacturer/Brand	Setup Code Number
APEX	082
APEX DIGITAL	061 076
CALIFORNIA AUDIO	040
CYBERHOME	092
DAEWOO	083 094
DENON	002 019 022 034 051
DVD-VIDEO	074
EMERSON	097
GE	003 004
GOLDSTAR (LG)	005 055 064 070
GO-VIDEO	095 098
GRADIENTE	071 072
HARMAN KARDON	001 032 066 079
JVC	006
KENWOOD	007 050 069
KLH	068
LOTTE	008
MAGNAVOX	033 056 084 085
MARANTZ	033 059
MITSUBISHI	023 036
NAD	010 062
ONKYO	009 015 048
OPTIMUS	011 050
PANASONIC	024 025 030 034 035 044 052 078 086 087 104
PHILIPS	033 056 084 093
PIONEER	012 020 038 041 046 047 065
PROCEED	060
PROSCAN	003 004 037
RCA	003 004 018 037 088
RUNCO	027
SAMSUNG	031 053 054 081 099 105
SANYO	013 049
SHARP	021 028 050 073
SONY	015 029 043 045 067 075 089 101
SYLVANIA	090 096
TECHNICS	026
THOMSON	003 004
TOSHIBA	009 033 047 057 058 077 091 102 103
YAMAHA	016 017 030 063
ZENITH	005 033 055 064
ZENITH DIVX	039

SETUP CODE TABLE: SAT

Manufacturer/Brand	Setup Code Number															
ALPHASTAR	472															
ALPHASTAR DBS	450															
ALPHASTAR DSR	422	442														
AMPLICA	356															
BIRDVIEW	414	425														
BSR	359															
CAPETRONICS	359															
CHANNEL MASTER	320	321	322	325	361											
CHAPARRAL	315	316	319	380	451											
CITOH	360															
CURTIS MATHES	356															
DRAKE	312	313	317	318	413	481										
DX ANTENNA	331	352	362	379	483											
ECHOSTAR	304	364	395	397	452	453	463	477	478	484	485					
ELECTRO HOME	392															
EUROPLUS	415															
FUJITSU	324	328	329	334												
GENERAL INSTRUMENT	303	311	323	365	403	454	468	474								
HITACHI DBS	455															
HOUSTON TRACKER	463															
HUGHES	372	437	486													
HYTEK	359															
JANIEL	366															
JERROLD	367	454	464	468												
JVC	308															
KATHREIN	410															
LEGEND	453															
LUXOR	368															
MACOM	317	365	369	370	371											
MAGNAVOX	461	473														
MEMOREX	453															
NEXTWAVE	423	424														
NORSAT	373	374														
OPTIMUS	466															
PANASONIC	366	469														
PANASONIC DBS	457															
PANSAT	420															
PERSONAL CABLE	418															
PHILIPS	304	375														
PICO	407															
PRESIDENT	326	404														
PRIMESTAR	412	454	464	475												
RCA	301	306	408	436	439	458	465	488								
REALISTIC	349	377	480													
SAMSUNG	306	307	422	442												
SATELLITE SERVICE CO	335	341	353	388												
SCIENTIFIC ATLANTA	339															
SONY	305	405	487													
STAR CHOICE DBS	459															
STARCAST	347															
SUPER GUIDE	327	423	424													
TEECOM	330	333	378	390	391	393	409									
TOSHIBA	302	426	460	461	462	470										
UNIDEN	323	332	348	349	350	351	354	355	381	382	383	389	403	466	479	480
ZENITH	385	386	387	394	419											

SETUP CODE TABLE: CBL

Manufacturer/Brand	Setup Code Number
ABC	001 003 011 045 048 052 059 110
ALLEGRO	111
AMERICAST	212
ANTRONIX	021
ARCHER	012 014 021 031 112
AT&T	005
BELCOR	113
CABLE STAR	033 113
CENTURION	092
CENTURY	014
CITIZEN	014 111
CLEARMAX	006
COLOUR VOICE	069 090
COMBANO	083 084
COMTRONICS	026 037
DIAMOND	030
DIGI	114
EAGLE	027 037 046 186
EASTERN	063 066 070 115
ELECTRICORD	039
EMERSON	112
FOCUS	116
G.I.	001 003 011 015 017 093 095 096 097
GC ELECTRONICS	113
GE	076
GEMINI	015 029 032 060
GENERAL	210
GENERAL INSTRUMENT	168
GOLDEN CHANNEL	037
GOODMIND	112
HAMLIN	055 056 061 099 100 101 117 175 207 208
HITACHI	001 061 188
HOSPITALITY	074 080
JASCO	111
JERROLD	001 002 003 011 015 016 017 073 093 095 096 097 162 167
LINDSAY	118
M-NET	043
MACOM	040 191
MAGNAVOX	017 019 068 082
MEMOREX	058
MOTOROLA	005
MOVIE TIME	035 039
NSC	022 035 044 075 190
OAK	023 038 043 059 094 196 197
PACE	179
PANASONIC	050 053 176 177 189 214
PANTHER	114
PARAGON	058
PHILIPS	013 019 020 027 069 085 090
PIONEER	001 041 057 119 171 200 209
POPULAR MECHANICS	116

SETUP CODE TABLE: CBL

Manufacturer/Brand	Setup Code Number
POST NEWSWEEK	023
PRELUDE	120
PRIMESTAR	162
PTS	018 054 075 076
PULSAR	058
RADIO SHACK	111 112 213
RCA	053 214
RECOTON	116
REGAL	055 056 061 099 100 101 207
REGENCY	063 115
REMBRANT	032
SAMSUNG	004 037 072 186
SCIENTIFIC ATLANTA	003 018 047 048 049 051 052 058 110 183 184 203 204 215 216 217 218 219 220 221 222 223 224 225 227 228
SEAM	121
SHERITECH	029
SIGNAL	037
SIGNATURE	001 188
SL MARX	037
SONY	229
SPRUCER	053 081 177 189
STARCOM	002 011 015 016 163
STARGATE	015 037 120
SYLVANIA	071
TADIRAN	037
TANDY	024
TELECAPATION	028
TEXSCAN	036 071
TFC	122
TIMELESS	123
TOCOM	045 046 062 170 205
TOSHIBA	058
UNIKA	014 021 031
UNITED CABLE	011 059
UNIVERSAL	012 014 021 031 033 034 039 042 113
VIDEOWAY	124 211
VIEWSTAR	019 022 025 086 087 088 089 190
ZENITH	058 065 098 125 211
ZENTEK	116

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