

REMOTE CONTROL FUNCTIONS

The AVR 247 remote is capable of controlling 11 devices, including the AVR itself and an iPod docked in the optional The Bridge accessory. During the installation process, you may program the codes for each of your source components into the remote. Each time you wish to use the codes for any component, first press the Selector button for that component. This changes the button functions to the appropriate codes for that product.

NOTE: Several of the Input Selectors are shared between two devices. The selector button will light in red when the remote is in the device mode printed on the button, and it will light in green for the device mode printed above the button. To switch between the two device modes, press the selector *twice* quickly in succession. The selector will remain in the last-selected mode until the next time you press the selector twice quickly.

For example, the first time you press the DVD button, the button will light up in red, indicating that the remote is in DVD mode. If you press another selector, such as the VID3 selector, and then press the DVD button again, the DVD button will remain red, indicating the remote is still in DVD mode. Now press the DVD button twice quickly. At the first press the button will light red, indicating that the remote is in DVD mode. On the second press the button will turn green, indicating that the remote is now in CD mode. If you press a different selector and return to the DVD/CD Selector, you will observe that the remote is still in CD mode.

Each Input Selector has been preprogrammed to control certain types of components, with only the codes specific to each brand and model changing, depending on which product code is programmed. The device types programmed into each selector may not be changed. However, you may program the HDMI 1 and 2 Selectors with the DVD, cable/satellite or VCR/PVR device type.

DVD: Controls DVD players and recorders.

CD: Controls CD players and recorders.

Tape: Controls cassette decks.

Video 1: Controls VCRs, TiVo® and PVRs.

Video 2: Controls cable and satellite television set-top boxes.

Video 3: Controls televisions and other video displays.

Video 4: Controls televisions and other video displays.

HDMI 1 and 2: Each code set controls a source device (VCR/PVR, DVD player or cable/satellite set-top box) connected to one of these two inputs.

XM: Controls the AVR functions for XM Satellite Radio.

The Bridge/DMP: Controls an iPod docked in The Bridge.

For example, if you have inserted a disc in your CD player and you would like to skip ahead three tracks, but you then find that the volume is too loud, you would follow this procedure:

1. Press the CD Input Selector to switch to the codes that control your CD player. If the remote is in DVD mode, press the selector twice quickly to switch to CD mode, indicated by the selector lighting in green.

2. Press the Play Button (in the Transport Controls section) if the disc is not already playing.
3. Press the Skip Up Button three times to advance three tracks.
4. Press the AVR Button so that you can access the Volume Controls.
5. Press the Volume Down Button until the volume level is satisfactory.

Any given button may have different functions, depending on which component is being controlled. Some buttons are labeled with these functions. For example, the Sleep and DSP Surround Buttons are labeled for use as Channel Up/Down Buttons when controlling a television or cable box. See Table A8 in the appendix for listings of the different functions for each type of component.

IR Transmitter Lens: As buttons are pressed on the remote, infrared codes are emitted through this lens. Make sure it is pointing toward the component being operated.

Power On Button: Press this button to turn on the AVR or another device. The Master Power Switch on the AVR 247's front panel must first have been switched on.

Mute Button: Press this button to mute the AVR 247's speaker and headphone outputs temporarily. To end the muting, press this button or adjust the volume. Muting is also canceled when the receiver is turned off.

Program Indicator: This LED lights up or flashes in one of three colors as the remote is programmed with codes.

Power Off Button: Press this button to turn off the AVR 247 or another device.

AVR Selector: Press this button to switch the remote to the codes that operate the receiver.

Input Selectors: Press one of these buttons to select a source device, which is a component where a playback signal originates, e.g., DVD, CD, cable TV, satellite or HDTV tuner, or an iPod docked in the optional The Bridge. This will also turn on the receiver and switch the remote's mode to operate the source device.

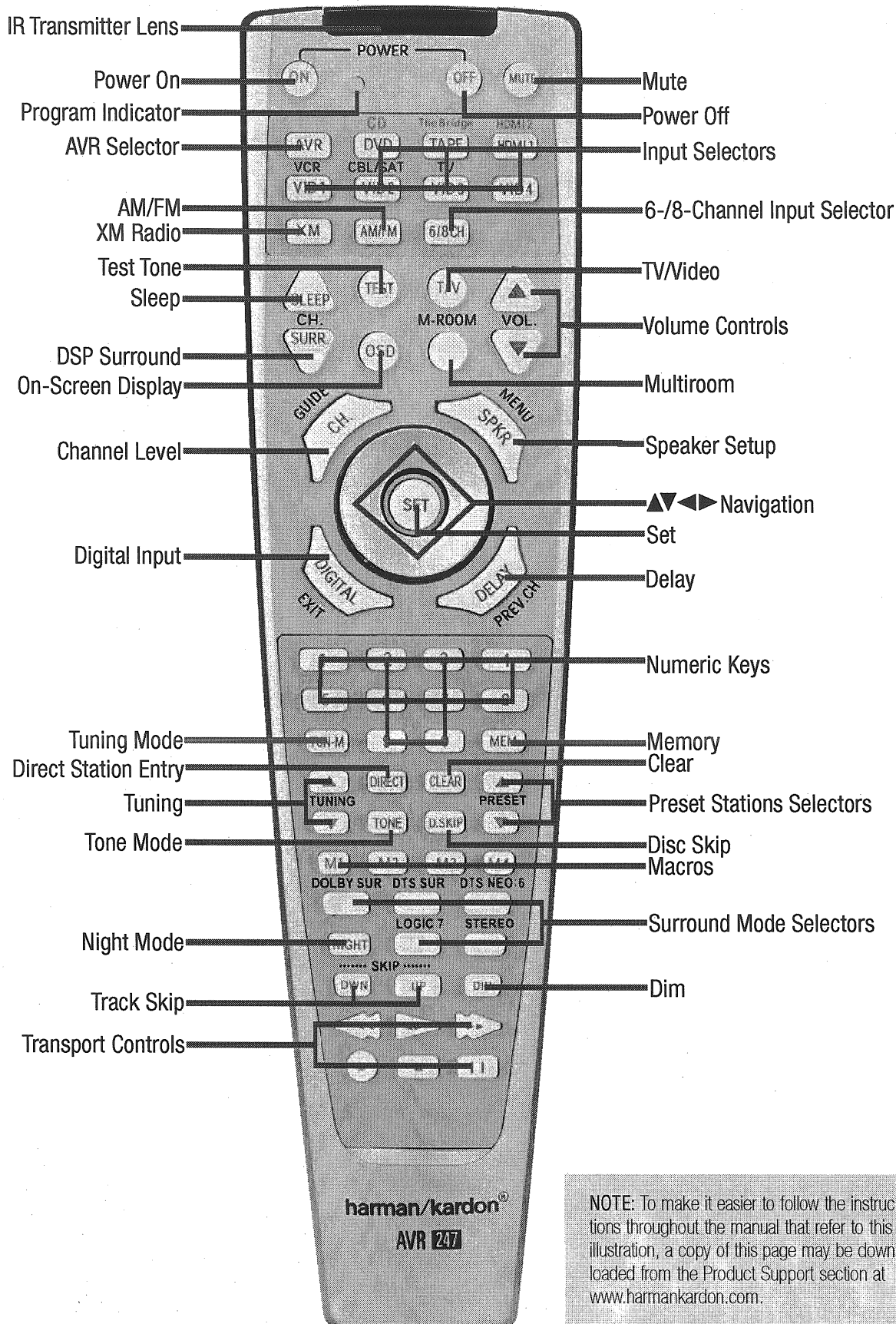
XM Radio Button: Press this button to select XM Satellite Radio as the source. You will need to have purchased and activated an XM antenna module, and you will also need to subscribe to the XM Radio service. Visit www.xmradio.com for more information.

AM/FM Button: Press this button to select the tuner as the source, or to switch between the AM and FM bands, or XM Radio.

6-/8-Channel Input Selector: Press this button to select the 6-/8-Channel Inputs as the audio source. The receiver will use the video input and remote control codes for the last-selected video source.

Test Tone: Press this button to activate the test tone for manual output-level calibration.

TV/Video: This button has no effect on the receiver, but is used to switch video inputs on some video source components.



NOTE: To make it easier to follow the instructions throughout the manual that refer to this illustration, a copy of this page may be downloaded from the Product Support section at www.harmankardon.com.

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Sleep Button: Press this button to activate the sleep timer, which turns off the receiver after a programmed period of time of up to 90 minutes.

Volume Controls: Press these buttons to raise or lower the volume, which will be shown in decibels (dB) in the Message Display.

DSP Surround: Press this button to select a DSP surround mode (Hall 1, Hall 2, Theater).

On-Screen Display (OSD): Press this button to activate the on-screen menu system.

Multiroom: Press this button to control the multiroom system. Three settings are available: MULTI ON/OFF, which is used to turn the multiroom system on or off; MULTI LEVEL, which adjusts the volume of the remote zone only; and MULTI INPUT, which is used to select the source input for the remote zone. See Multiroom Operation in the Advanced Functions section for more information on using the AVR 247's multiroom system.

Channel Level: Press this button to adjust the output levels for each channel so that all speakers sound equally loud at the listening position. Usually this is done while playing an audio selection, such as a favorite CD, after you have calibrated the levels using EzSet/EQ, as described in the Initial Setup section.

Speaker Setup: Press this button to configure speaker sizes, that is, the low-frequency capability of each speaker. Usually this is done using the on-screen menu system, as described in the Initial Setup section.

Navigation (▲/▼/◀/▶) and Set Buttons: These buttons are used to make selections within the on-screen menu system, or when accessing the functions of the four buttons surrounding this area of the remote – Channel Level, Speaker Setup, Digital Input or Delay.

Digital Input Select: Press this button to select the specific digital audio input (or analog audio input) you used for the current source.

Delay: Press this button to set delay times that compensate for placing the speakers at different distances from the listening position, or to resolve a "lip sync" issue that may be caused by digital video processing. This may also be done using the on-screen menu system, as described in the Initial Setup section.

Numeric Keys: Use these buttons to enter radio station frequencies or to select station presets. When the AM or FM band is in use, press the Direct Button before entering the station frequency.

When listening to XM Radio, you may enter channel numbers without first pressing the Direct Button; however, to access the preset stations, you will need to use the Preset Stations Selectors. To access another bank of XM presets, press the Set Button repeatedly until PRESET SEARCH appears, then use the ▲/▼ Buttons to select the letter of the desired bank.

Tuning Mode: When listening to AM or FM radio, this button toggles between manual (one frequency step at a time) and automatic (seeks frequencies with acceptable signal strength) tuning mode. It also toggles between stereo and mono modes when an FM station is tuned.

When listening to XM Radio, press the Tuning Mode Button once to view the category name of the current channel. Additional presses will display the artist, song title and channel name.

Memory: After you have tuned a particular radio station, press this button, then the numeric keys, to save that station as a radio preset.

For XM Radio, the procedure for saving a preset is a little different. To save the current channel in one of the 40 available preset locations, press the Set Button repeatedly until PRESET SEARCH appears. Use the ▲/▼ Buttons to select a letter (A through E) representing one of the five banks of preset memory slots. Then press the Memory Button, followed by a Numeric Key (1 through 8) for the precise preset memory location you wish to save the channel in.

Tuning: Press these buttons to tune a radio station or XM Radio channel. For the AM and FM bands, and depending on whether the tuning mode has been set to manual or automatic, each press will either change one frequency step at a time, or seek the next frequency with acceptable signal strength.

Direct: Press this button before using the Numeric Keys to directly enter a radio station frequency (AM or FM bands only).

Clear: Press this button to clear a radio station frequency you have started to enter.

Preset Stations Selector: Press these buttons to select a preset radio station.

For XM Radio, first press the Set Button repeatedly until PRESET SEARCH appears and then use the ▲/▼ Buttons to select the letter of the desired bank of presets.

Tone Mode: Press this button to access the tone controls (bass and treble). Use the Navigation Buttons to make your selections.

Disc Skip: This button has no effect on the receiver, but is used with some optical disc changers to skip to the next disc.

Macros: These buttons may be programmed to execute long command sequences with a single button press. They are useful for programming the command to turn on or off all of your components, or for accessing specialized functions for a different component than you are currently operating.

Surround Mode Selectors: Press any of these buttons to select a type of surround sound (e.g., multichannel) mode. Choose from the Dolby modes, DTS modes, Logic 7 modes or Stereo modes. Each press of a button will cycle to the next available variant of that mode. Not all modes or mode groups are available with all sources.

Night Mode: Press this button to activate Night mode with specially encoded Dolby Digital discs or broadcasts. Night mode compresses the audio so that louder passages are reduced in volume to avoid disturbing others, while dialogue remains intelligible.

Track Skip: These buttons have no effect on the receiver, but are used with many source components to change tracks or chapters.

Dim: Press this button to partially or fully dim the front-panel display.

Transport Controls: These buttons have no effect on the receiver, but are used to control many source components. By default, when the remote is operating the receiver, these buttons will control a DVD player.

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out so that the word OFF appears on its top. Gently press the button to turn the switch off. This will prevent the possibility of damaging the AVR in case of a transient power surge.

Step Seven – Insert Batteries in Remote

The AVR 247 remote control uses three AAA batteries, which are included.

To remove the battery cover located on the back of the remote, firmly press the ridged depression and slide the cover toward the top of the remote.

Insert the batteries, as shown in Figure 34, making sure to observe the correct polarity.

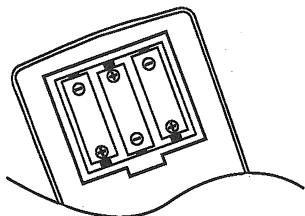


Figure 34 – Remote Battery Compartment

When using the remote, remember to point the lens toward the front panel of the AVR 247. Make sure no objects, such as furniture, are blocking the remote's path to the receiver. Bright lights, fluorescent lights and plasma video displays may interfere with the remote's functioning. The remote has a range of about 20 feet, depending on the lighting conditions. It may be used at an angle of up to 30 degrees to either side of the AVR.

If the remote seems to operate intermittently, or if pressing a button on the remote does not cause the AVR Selector or one of the Input Selectors to light up, then make sure the batteries have been inserted correctly, or replace all three batteries with fresh ones.

Step Eight – Program Sources Into the Remote

The AVR 247 remote not only is capable of controlling the receiver, but it may also be programmed to control many brands and models of VCRs, DVD players, CD players, cable boxes, satellite receivers, cassette decks and TVs, as well as an iPod docked in The Bridge.

It may help to think of the remote as a book with pages. Each "page" represents the button functions for a different device. In order to access the functions for a particular device, you first need to turn to that page; that is, switch the remote to that device mode. This is done by pressing the AVR Button to access the codes that control the receiver, or the Input Selector Buttons to access the codes for the devices programmed into the remote.

You may have noticed that three of the Input Selectors look different from the others (see Figure 35). For the DVD/CD, TAPE/The Bridge and HDMI 1/HDMI 2 Selectors, there is a primary source, the name of which is printed on the button, and a secondary source, the name of which is printed in green above the button.

When the remote is in the device mode for the primary source, e.g., DVD, pressing the device selector will cause it to light up in red. When the remote is in the secondary source's device mode, the selector will light up in green when pressed.

To switch between the primary and secondary device modes, press the selector twice quickly in succession. The selector will retain this selection until the next time you toggle between the primary and secondary device modes. That is, if you press the DVD/CD Selector twice quickly so that the CD source is activated, then press another source selector, such as Video 1, the next time you press the DVD/CD Selector, the remote will return to the CD device mode.

The AVR 247's remote is factory-programmed to control an iPod docked in The Bridge and many Harman Kardon DVD and CD players. If you have other source devices in your system, follow these steps to program the correct codes into the remote.

1. Using the codes in Tables A9–A16 of the Appendix, look up the product type (e.g., DVD, cable TV box) and the brand name of your source. The number(s) listed is/are potential candidates for the correct code set for your particular device.
2. Turn on your source device.
3. This step places the remote in program mode, and varies slightly, depending on which Input Selector is being programmed. Refer to Figure 35.
 - a) **DVD, Tape, Video 1, Video 2, Video 3 and Video 4 Sources:** Press and hold the Input Selector until the Program Indicator LED starts to flash, then release it. Follow the directions in Step 4, below.
 - b) **CD Source:** Press the DVD/CD Input Selector twice quickly so that it turns green, hold it until the Program LED starts to flash, then release. Follow the directions in Step 4, below.
 - c) **HDMI 1 Source:** Press and hold the Input Selector until it turns red and the Program LED starts to flash, then release it. Next, press the Input Selector that corresponds to the device type you want to program into the HDMI 1 mode, i.e., DVD, VCR/PVR or CBL/SAT. Then follow the directions in Step 4, below.
 - d) **HDMI 2 Source:** Press and release the Input Selector once, then quickly press the Input Selector again so that it turns green. Hold it until the Program LED starts to flash, then release it. Next, press the Input Selector that corresponds to the device type you want to program into the HDMI 2 mode, i.e., DVD, VCR/PVR or CBL/SAT. Then follow the directions in Step 4, below.

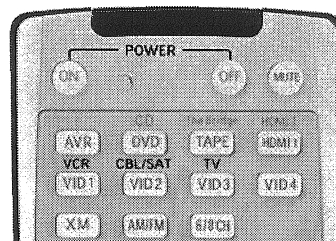


Figure 35 – Input Selectors

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4. Enter a code from Step 1, above.

- a) If the device turns off, then press the Input Selector again to accept the code; it will flash. The remote will exit the Program mode.
- b) If the device does not turn off, try entering another code. If you run out of codes, you may search through all of the codes in the remote's library for that product type by pressing the ▲ or ▼ Button repeatedly until the device turns off. When the device turns off, enter the code by pressing the Input Selector, which will flash. The remote then exits Program mode.

5. Once you have programmed a code, it's a good idea to try using some other functions to control the device. Sometimes, manufacturers use the same Power code for several different models, while other codes will vary. You may wish to repeat this process until you've programmed a satisfactory code set that operates most of the functions you frequently use.

6. You may find out which code number you have programmed by pressing and holding the Input Selector to enter the Program mode. Then press the Set Button, and the LED will flash in the code sequence. One flash represents "1", two flashes for "2", and so forth. A series of many fast flashes represents "0". Record the codes programmed for each device in Table 3.

Table 3 – Remote Control Codes

Source Input	Product Type (circle one)	Remote Control Code
Video 1	VCR, PVR	
Video 2	Cable, Satellite	
Video 3	TV	
Video 4	TV	
HDMI 1	DVD, VCR, PVR, CBL, SAT	
HDMI 2	DVD, VCR, PVR, CBL, SAT	
DVD	DVD	
CD	CD, CDR	

If you are unable to locate a code set that correctly operates your source device, it will not be possible to use the AVR remote to control that device. However, you may still connect the source to the AVR 247 and operate it using the device's original remote control. Alternatively, you may wish to consider purchasing Harman Kardon's optional TC 30 activity-based remote, which is programmed by accessing a large database of product codes on the Internet. The TC 30 is also capable of "learning" codes from your device's original remote.

Most of the button labels on the remote describe the button's function when used to control the AVR 247. However, the button may perform a very different function when used to control another device. Refer to the Remote Control Function List, Table A8 in the Appendix, for a list of each button's functions with the various product types.

If you wish, you may program Macros, which are preprogrammed code sequences that execute many code commands with a single button press. You may also program "punch-through" codes, which allow the remote to operate the volume, channel or transport controls of another

device without having to switch the remote's device mode. See pages 58–59 for instructions on these advanced programming functions.

NOTE: The AVR 247 remote is preprogrammed to operate the transport controls of Harman Kardon DVD players when the AVR, the Video 2 (cable/satellite) or the Video 3 (TV) source is selected. You may change this punch-through programming at any time.

Step Nine – Remote IR Inputs and Output (Optional)

The AVR 247 is equipped with a Remote IR Input, a Multiroom IR Input and a Remote IR Output to facilitate use of your system with a remote control in a variety of situations. See Figure 36.



Figure 36 – IR Inputs and Outputs

When the AVR 247 is placed in such a way that aiming the remote at the front-panel IR sensor is difficult, such as inside a cabinet or facing away from the listener, you may connect an external IR receiver, such as the optional Harman Kardon HE 1000, to the Remote IR Input jack. When you are using the AVR 247 in multiroom mode, you may connect an optional IR receiver, keypad or other control device to the Multiroom IR Input for remote control of the AVR 247 (and any sources connected to the AVR's Remote IR Output) from the remote zone. Any signals transmitted through the Multiroom IR Input will only control source selection and volume for the remote zone. If a source device is being shared with the main listening area, then any control commands issued to that source will also affect the main room.

If any of your source devices are equipped with a compatible Remote IR Input, you may use a 1/8" mini-plug interconnect cable (not included) to connect the AVR's Remote IR Output to the source device's Remote IR Input, which will pass any applicable remote signals transmitted through the AVR to the source device. This enables you to control your sources even when the AVR itself is controlled via an external IR receiver.

Check with the manufacturer of the source device for more information on the type of IR signal expected. The AVR 247 will output a "stripped carrier" IR signal through the Remote IR Output.

To control more than one source device using the Remote IR Output, connect all sources in "daisy chain" fashion, with the AVR's Remote IR Output connected to the first device's Remote IR Input, the second device's Remote IR Output connected to the next device's Remote IR Input, and so forth.

Step Ten – Install a Multiroom System (Optional)

The AVR 247 offers several methods of distributing music to other listening areas in your home. As indicated in the subheading, a multiroom system is not required to enjoy the home theater experience. If you prefer not to install a multiroom system at this time, skip to Step Eleven to turn on the AVR 247 and configure it.

IMPORTANT SAFETY NOTE: Installing a multiroom system very often requires running various cables inside walls. Always comply with the appropriate safety codes when installing concealed wiring. The AVR 247's multiroom connections should be installed per the

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when turned on. This feature avoids discomfort for listeners in case the last user turned the volume very high.

Press the OSD Button to remove the display from the screen so that you may adjust the volume to a desired level while a source is playing. Make a note of the number that appears in the display, and return to the System Setup menu. At the Default Volume Set line, select the desired volume setting, and activate the feature by setting Volume Default to ON.

NOTE: Although volume is normally displayed in 0.5dB increments, the default volume setting only allows whole numbers.

Semi OSD Timeout: At this line, you may program the amount of time (2 to 5 seconds) the two-line semi-OSD on-screen messages remain visible, or you may deactivate the semi-OSD display altogether if you find it distracting. These messages will continue to appear on the front panel of the receiver.

NOTE: The semi-OSD displays are not available when a 1080i or 1080p high-definition video source is in use.

Full OSD Timeout: At this line, you may program the amount of time (20, 30, 40 or 50 seconds) the full-OSD menus remain visible on screen. The full-OSD system may not be deactivated.

Default Surround Mode: This setting determines how the AVR 247 will handle Dolby Digital and DTS sources. For the purposes of this setting, the "default surround mode" means the mode encoded in the program, such as Dolby Digital 5.1. With this setting ON, the receiver will always use the default surround mode encoded in the program. When this setting is changed to OFF, the receiver will use the surround mode you selected the last time this type of audio stream was detected.

Dolby Digital 2.0 signals default to the Dolby Pro Logic II Movie mode, but you may select another Dolby surround mode manually. For PCM and analog sources, the factory default surround mode is Logic 7 Music. In general, the receiver will use the surround mode selected the last time that type of signal was received.

Dim Function

Some people find the front-panel messages distracting and would prefer to dim them or turn them off altogether. When the display is dimmed or darkened, it will return to full brightness for five seconds any time a command is received before dimming or darkening again.

To dim the display:

1. Press the Dim Button on the remote. Each button press will cycle through the three settings of:

VFD FULL: Normal brightness

VFD HALF: Display is dimmed but still visible; the light inside the volume knob goes dark

VFD OFF: Display goes completely dark except for the Power Indicator to remind you that the receiver is turned on

2. Press the Set Button on the front panel and hold it for about five seconds. A message indicating the current brightness setting (see above) will appear in the display. Use the front-panel ◀/▶ Buttons to change the setting and press the Set Button to select it.

Advanced Remote Control Functions

The AVR 247 remote control not only operates the AVR 247, but it also serves as a universal remote that may be programmed to operate many other home theater components, as described in the Installation section. Each time you select one of your other components, the AVR remote switches to the control functions for that component. Since many buttons have unique functions for each component, refer to the Function List in the Appendix for assistance in operating your other components. The function of each button will not necessarily correspond to the label printed on the button.

Punch-Through Programming

The AVR 247 remote's punch-through feature allows you to select one component for the remote to operate, while simultaneously setting certain groups of controls to operate another component. For example, while using the AVR to control surround modes and other audio functions, you may operate the transport controls of your DVD player. Or while using the remote to control video functions on your TV, you may use your cable box to change channels and the AVR to control the volume.

NOTE: It is not necessary to program the remote to control your DVD player's transport controls while the AVR, VID2 or VID3 devices are in use, as the remote is preprogrammed at the factory with this function.

To program punch-through control while operating any device:

1. Press and hold the Input Selector (or AVR selector) for the main device the remote will be operating until the Program LED flashes and the remote enters Program mode.
2. Select the type of punch-through programming.
 - a) To program volume control punch-through, press the Volume Up Button.
 - b) To program channel control punch-through, press the Volume Down Button.
 - c) To program transport control punch-through, press the Play Button.
3. Press the Input Selector (or AVR selector) for the device whose volume, channel or transport controls you would like to be active while operating the device you selected in the first step. The LED will flash green to confirm the programming.

For example, if you wish to watch your TV (programmed into the Video 3 Button) while changing channels using your cable box (Video 2), first press the Video 3 Button until the Program LED flashes. Then press the Volume Down Button, followed by the Video 2 Button.

To undo punch-through programming, follow the same steps as above, but press the same Input (or AVR) Selector in Steps 1 and 3.

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You may reassign the transport control punch-through programming for the AVR, VID2 and VID3 devices to other devices, such as CD. If you wish to remove transport control punch-through altogether for the AVR, VID2 or VID3 device, follow the same procedure as for programming punch-through, but in Step 3 press either of the other two of these three special selector buttons. For example, to remove punch-through transport control from the VID3 device so that pressing any of the transport controls will have no effect in that device mode, press and hold VID3 until the Program Indicator Program LED flashes in amber, then press the Play button, followed by either the AVR or VID2 Button.

Macros

Macros are used to program sequences of up to 19 commands that are executed with a single button press. Macros are well suited for power on and off commands, or to send out a favorite multidigit channel number with one button press, or to have the ability to send out a code sequence to control another device while the remote is operating one device, but with more flexibility than the built-in punch-through controls.

Some commands may not be programmed into macros: Mute, Dim, Channel Up/Down, or any of the surround mode commands.

NOTE: Use caution when programming complicated macros. It isn't possible to program a pause or delay before sending commands after Power On, and the component may not be ready to respond to commands instantaneously after powering on.

To program, or "record" a macro, follow these steps:

1. Simultaneously press and hold one of the four Macro Buttons (or the Power On Button) and the Mute Button to enter Program mode.
2. Press the Input (or AVR) Selector for each device before you enter commands to be transmitted to that device. This step counts as one of the 19 commands allowed for each macro.

NOTE: Even if you previously switched one of the dual-source Input Selectors (DVD/CD, TAPE/THE BRIDGE, HDMI 1/HDMI 2) to the primary or secondary source prior to programming the macro, the remote always requires you to press any of these selectors *once* to program the macro to select the primary source and *twice* for the secondary source.

3. For the Power On command, DO NOT press the Power On Button. Press the Mute Button instead.
4. Press the Power Off Button to program the Power Off command.
5. Press the Sleep Button to end the programming process.

It isn't possible to "edit" a command within a macro. However, you may erase the macro as follows:

1. Simultaneously press and hold the Mute Button and the Macro Button containing the macro until the Program LED flashes.
2. Press the Surround Button to erase the macro.

Resetting the Remote

To reset the remote to its factory defaults, simultaneously press and hold any Input Selector and the "0" Numeric key. When the Program LED flashes in amber, enter the code "333". When the green LED goes out, the remote will have been fully reset.

Processor Reset

There may be instances when you wish to fully reset the AVR 247 to its factory defaults, or the unit may behave erratically after a power surge.

To correct erratic behavior, first try turning the Master Power Switch off and unplugging the AC power cord for at least three minutes. Plug the cord back in and turn the receiver back on. If this doesn't help, try a system reset.

NOTES:

- A system reset erases all user configurations, including speaker and level settings and tuner presets. After a reset, you will need to reenter all of these settings.
- The RS-232 Reset Button on the rear panel of the AVR 247 does not perform a system reset. DO NOT press the RS-232 Reset Button.

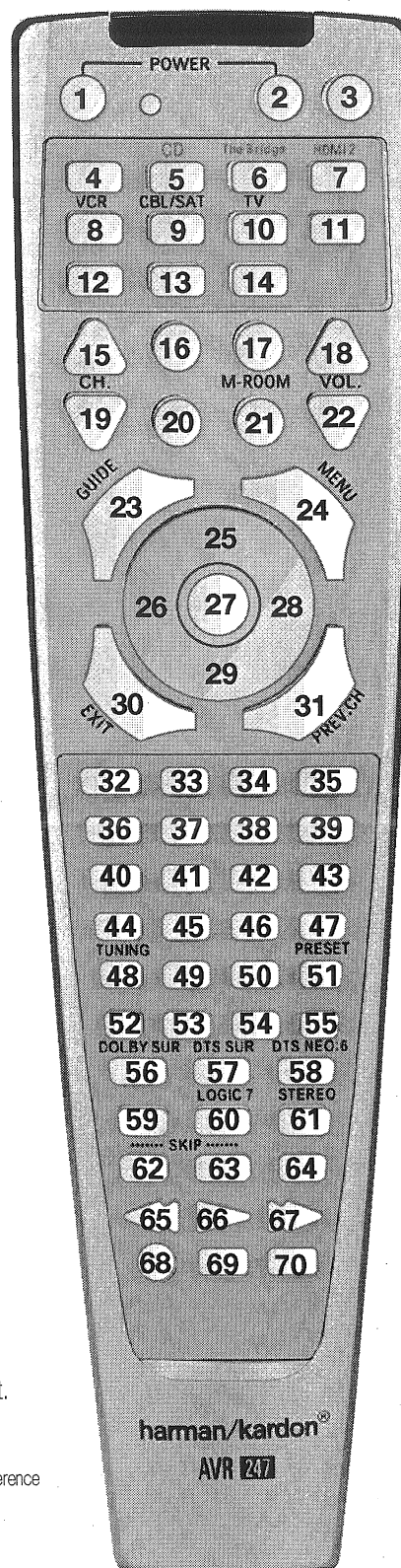
To reset the AVR 247, place the receiver in Standby mode (press the front-panel Standby/On Switch so that the Power Indicator turns amber). Then press and hold the front-panel Tone Mode Button for at least five seconds until the RESET message appears in the display.

If the receiver still does not function correctly after a processor reset, contact an authorized Harman Kardon service center for assistance. Authorized service centers may be located by visiting our Web site at www.harmankardon.com.

Memory

If the AVR 247 is unplugged or experiences a power outage, it will retain user settings for up to four weeks.

APPENDIX



Refer to the numbered buttons in Figure 92 when using the Function List.

Figure 92 – Remote Control Function List Reference

APPENDIX

Table A8 – Remote Control Function List

No.	Button Name	AVR Function	DVD	CD/CD-R	Tape	VCR (VID1)	TiVo (VID1)	CBL (VID2)	SAT (VID2)	TV (VID3/VID4)	Bridge (DMP)	XM	HDMI 1/2
1	Power On	Power On	Power On	Power On		Power On	Power On/Off	Power On	Power On	Power On		Power On	Power On
2	Power Off	Power Off	Power Off	Power Off		Power Off	TV Power	Power Off	Power Off	Power Off		Power Off	Power Off
3	Mute	Mute	Mute	Mute	Mute	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	AVR Select	AVR Select	AVR Select	AVR Select
5	DVD/CD	DVD Input Select	DVD Select	DVD Select	DVD Select	DVD Select	DVD Select	DVD Select	DVD Select	DVD Select	DVD Select	DVD Select	DVD Input Select
		CD Input Select	CD Select	CD Select	CD Select	CD Select	CD Select	CD Select	CD Select	CD Select	CD Select	CD Select	CD Input Select
6	Tape/ Bridge	Tape Select	Tape Select	Tape Select	Tape Select	Tape Select	Tape Select	Tape Select	Tape Select	Tape Select	Tape Select	Tape Select	Tape Select
		The Bridge (DMP) Select	The Bridge (DMP) Select	The Bridge (DMP) Select	The Bridge (DMP) Select	The Bridge (DMP) Select	The Bridge (DMP) Select	The Bridge (DMP) Select	The Bridge (DMP) Select	The Bridge (DMP) Select	The Bridge (DMP) Select	The Bridge (DMP) Select	The Bridge (DMP) Select
7	HDMI 1/HDMI 2	HDMI 1 Select	HDMI 1 Select	HDMI 1 Select	HDMI 1 Select	HDMI 1 Select	HDMI 1 Select	HDMI 1 Select	HDMI 1 Select	HDMI 1 Select	HDMI 1 Select	HDMI 1 Select	HDMI 1 Select
		HDMI 2 Select	HDMI 2 Select	HDMI 2 Select	HDMI 2 Select	HDMI 2 Select	HDMI 2 Select	HDMI 2 Select	HDMI 2 Select	HDMI 2 Select	HDMI 2 Select	HDMI 2 Select	HDMI 2 Select
8	VID 1 (VCR)	Video 1 Select	VCR Select	VCR Select	VCR Select	VCR Select	VCR Select	VCR Select	VCR Select	VCR Select	VCR Select	VCR Select	VCR Select
9	VID 2 (CBL/SAT)	Video 2 Select	CBL/SAT Select	CBL/SAT Select	CBL/SAT Select	CBL/SAT Select	CBL/SAT Select	CBL Select	SAT Select	CBL/SAT Select	CBL/SAT Select	CBL/SAT Select	CBL/SAT Select
10	VID 3 (TV)	Video 3 Select	TV Select	TV Select	TV Select	TV Select	TV Select	TV Select	TV Select	TV Select	TV Select	TV Select	TV Select
11	VID 4	Video 4 Select	Video 4 Select	Video 4 Select	Video 4 Select	Video 4 Select	Video 4 Select	Video 4 Select	Video 4 Select	Video 4 Select	Video 4 Select	Video 4 Select	Video 4 Select
12	XM	XM Select	XM Select	XM Select	XM Select	XM Select	XM Select	XM Select	XM Select	XM Select	XM Select	XM Select	XM Select
13	AM/FM	Tuner Select	Tuner Select	Tuner Select	Tuner Select	Tuner Select	Tuner Select	Tuner Select	Tuner Select	Tuner Select	Tuner Select	Tuner Select	Tuner Select
14	6/8CH	6/8 Ch. Input Select	6/8 Ch. Input Select	6/8 Ch. Input Select	6/8 Ch. Input Select	6/8 Ch. Input Select	6/8 Ch. Input Select	6/8 Ch. Input Select	6/8 Ch. Input Select	6/8 Ch. Input Select	6/8 Ch. Input Select	6/8 Ch. Input Select	6/8 Ch. Input Select
15	Sleep/CH+	Sleep				Channel +	Channel +	Channel +	Channel +	Channel +			Channel +
16	Test Tone	Test Tone											
17	TV		TV/DVD or V. Off	Input Select		TV/VCR	TV Input	TV/CBL	TV/SAT	TV/VCR			TV/Video
18	Vol Up	Volume Up	Volume Up	Volume Up		Volume Up	Volume Up		Volume Up	Volume Up	Volume Up		Volume Up
19	Surrr/CH-	DSP Surround Mode Select	Disc Menu or Title	CDR Select		Channel -	Channel -	Channel -	Channel -	Channel -			Channel -
20	OSD	OSD		Program		OSD	Live TV	OSD	OSD	OSD			OSD
21	M-Room	Multiroom	HD Mode										
22	Vol Down	Volume Down	Volume Down	Volume Down		Volume Down	Volume Down		Volume Down	Volume Down	Volume Down		Volume Down
23	CH/Guide	Channel Trim	Title or Disc Menu	Continuous Play			Guide	Info/Guide	Info/Guide				Guide
24	Speaker/Menu	Speaker Setup	Menu or Setup	Intro Scan		Menu	Menu	Menu	Menu	Menu	Menu		Menu
25	▲	Move/Adjust Up	Up			Up	Up	Up	Up	Up		Up	Up
26	◀	Move/Adjust Left	Left			Left	Left	Left	Left	Left	Scroll -	Left	Left
27	Set	Set	Enter			Enter	Select	Enter	Enter	Enter	Select	Set	Set/Enter
28	▶	Move/Adjust Right	Right			Right	Right	Right	Right	Right	Scroll +	Right	Right
29	▼	Move/Adjust Down	Down			Down	Down	Down	Down	Down		Down	Down
30	Digital/Exit	Digital Input Select	Open/Close				Return/Exit						
31	Delay/Prev. Ch	Delay Adjust	Return or Status	Open/Close				Prev Channel	Prev Channel	Prev Channel			Prev Channel
32	1	1	1	1		1	1	1	1	1		1	1
33	2	2	2	2		2	2	2	2	2		2	2
34	3	3	3	3		3	3	3	3	3		3	3
35	4	4	4	4		4	4	4	4	4		4	4
36	5	5	5	5		5	5	5	5	5		5	5
37	6	6	6	6		6	6	6	6	6		6	6
38	7	7	7	7		7	7	7	7	7		7	7
39	8	8	8	8		8	8	8	8	8		8	8
40	Tun-M	Tuning Mode	Chapter+ or Zoom	Repeat								Tuning Mode	
41	9	9	9	9		9	9	9	9	9		9	9
42	0	0	0	0		0	0	0	0	0		0	0

Table A8 – continued

No.	Button Name	AVR Function	DVD	CD/CD-R	Tape	VCR (MD1)	TiVo (MD1)	CBL (VD2)	SAT (MD2)	TV (MD3/MD4)	Bridge (DMP)	XM	HDMI 1/2
43	Memory	Memory	Audio or Playlist	Time								Memory	
44	Tuning Up	Tuning Up	Next Chapter	Track Direct		Cancel			Cancel	Sleep		Tuning Up	
45	Direct	Direct Tuner Entry	Angle	Random Play				FAV/Angle	FAV				Angle/FAV
46	Clear	Clear	Clear	Clear		Clear	Clear		Next			Clear	
47	Preset Up	Preset Tune Up	Slow Forward	+10					Alt			Preset Up	
48	Tuning Down	Tuning Down	Prev Chapter	Track Increment								Tuning Down	
49	Tone	Tone mode		Program									
50	D. Skip	Disc Skip (DVD)	Disc Skip	Disc Skip			Skip						
51	Preset Down	Preset Down	Slow Rev									Preset Down	
52	M1	Macro 1	Macro 1	Macro 1	Macro 1	Macro 1	Macro 1	Macro 1	Macro 1	Macro 1		Macro 1	Macro 1
53	M2	Macro 2	Macro 2	Macro 2	Macro 2	Macro 2	Macro 2	Macro 2	Macro 2	Macro 2		Macro 2	Macro 2
54	M3	Macro 3	Macro 3	Macro 3	Macro 3	Macro 3	Macro 3	Macro 3	Macro 3	Macro 3		Macro 3	Macro 3
55	M4	Macro 4	Macro 4	Macro 4	Macro 4	Macro 4	Macro 4	Macro 4	Macro 4	Macro 4		Macro 4	Macro 4
56	Dolby Surround	Dolby Modes											
57	DTS Surround	DTS Digital Modes											
58	DTS Neo:6	DTS Neo:6 Select											
59	Night	Night Mode Select	Subtitle On/Off	CDP Select									
60	Logic 7	Logic 7 Select											
61	Stereo	Stereo Mode Select											
62	Skip Down	Skip – (DVD)	Step –	Skip –		Scan –	Thumbs Down	Skip – (DVD)	Skip – (DVD)	Skip – (DVD)			
63	Skip Up	Skip + (DVD)	Step +	Skip +		Scan +	Thumbs Up	Skip + (DVD)	Skip + (DVD)	Skip + (DVD)			
64	Dim	Dimmer											
66	Rewind (◀◀)	R. Search (DVD)	R. Search	R. Search	Rewind	Rewind	R. Search	R. Search (DVD)	R. Search (DVD)	R. Search (DVD)	Skip-/R. Search		R. Search
66	Play (▶▶)	Play (DVD)	Play	Play	R. Play/F. Play	Play	Play	Play (DVD)	Play (DVD)	Play (DVD)	Play		Play
67	F F (▶▶)	F. Search (DVD)	F. Search	F. Search	Fast Fwd	Fast Fwd	F. Search	F. Search (DVD)	F. Search (DVD)	F. Search (DVD)	Skip+/F. Search		F. Search
68	Record			Record	Record/Pause	Record	Record						Record
69	Stop	Stop (DVD)	Stop	Stop	Stop	Stop	Slow	Stop (DVD)	Stop (DVD)	Stop (DVD)			Stop
70	Pause	Pause (DVD)	Pause	Pause		Pause	Pause	Pause (DVD)	Pause (DVD)	Pause (DVD)	Pause		Pause

NOTE: When any of the transport controls are pressed while the remote is in AVR, Video 2 or Video 3 mode, the remote will automatically switch to DVD mode and the command will be applied to the DVD player. If you then press a button native to the original mode, e.g., Volume Down for the AVR, the remote will revert to the original mode. See Punch-Through Programming, described in the Advanced Functions section, for more information.

APPENDIX

Refer to Tables A9 through A16 when programming the codes for your components into the remote.

Table A9 – Remote Control Product Codes – TV

TV Manufacturer/Brand	Setup Code Number	TV Manufacturer/Brand	Setup Code Number
AIWA	027	KTV	045 123 132 162
A MARK	122 132	LLOYTRON	172 173
ADMIRAL	192	LODGENET	069
AKAI	123 160	LOGIK	069
AMPRO	164	LUXMAN	128
ANAM	045 106 109 112 122	LXI	077 145 148
AOC	122 123 128	MAGNAVOX	030 123 128 132 145 148
BLAUPUNKT	084	MARANTZ	115 123 148
BROKSONIC	205 206	MATSUI	148
CANDLE	123 128	MEMOREX	069 128
CAPEHART	059	METZ	084
CENTURION	123 171	MGA	115 123 128
CENTRONIC	045	MINERVA	084
CITIZEN	045 123 128 132	MITSUBISHI	077 115 123 128 160 167 168
CLASSIC	045	MTC	175 176
CONCERTO	128	NATIONAL	148 177 179 180 181 182
CONTEC	045	NEC	115 121 123 125
CORANDO	172	NIKEI	045
CORONADO	132	ONKING	045
CRAIG	045 157 158 159	ONWA	045
CROWN	045 132	OPTONICA	077
CURTIS MATHES	123 128 132	ORION	207 208 209 210 211
CXC	045	PANASONIC	087 148 169
DAEWOO	045 087 102 105 106 108 111 114 116 119 127 128 132	PHILCO	045 115 123 128 132 148
DAYTRON	128 132	PHILIPS	033 034 035 036 123 128 132 145 148
DIGI LINK	200	PIONEER	024 123 128
DYNASTY	045	PORTLAND	128 132
DYNATECH	063	PROSCAN	133
ELECTROHOME	115 132	PROTON	059 122 128 132 165
EMERSON	045 123 128 132 139 157 158 159 162 205	QUASAR	032 087
FUNAI	045	RADIO SHACK	045 128 132 180 196 197
FUTURETECH	045	RCA	021 115 123 128 133 145 161 163
GE	029 087 121 123 128 133 145 159 163	REALISTIC	045 167 196
GOLDSTAR/LG	101 110 122 128 132	RUNCO	152 153
GRUNDIG	193	SAA	183
HALL MARK	128	SAMPO	059 123 128
HARMAN KARDON	201	SAMSUNG	020 022 124 128 132 145
HITACHI	123 128 132 144 147	SANYO	026 054
INFINITY	148	SCOTT	045 128 132
INKEL	120	SEARS	128 132 145
JBL	148	SHARP	077 128 132
JC PENNEY	115 123 128 132 145	SIEMENS	084
JENSEN	019	SIGNATURE	069
JVC	079 087 134	SONY	028 031 117 130 136 194 212
KAWASHO	173	SOUNDESIGN	045 128
KEC	045	SPECTRICON	122
KENWOOD	123 204	SSS	045
KMC	132	SYLVANIA	025 123 128 145 148
		SYMPHONIC	184
		TANDY	077

APPENDIX

Table A9 – continued

TV Manufacturer/Brand	Setup Code Number
LOGIK	069
LUXMAN	128
LXI	077 145 148
MAGNAVOX	030 123 128 132 145 148
MARANTZ	115 123 148
MATSUI	148
MEMOREX	069 128
METZ	084
MGA	115 123 128
MINERVA	084
MITSUBISHI	077 115 123 128 160 167 168
MTC	175 176
NATIONAL	148 177 180 181 182
NEC	115 121 123 125
NIKEI	045
ONKING	045
ONWA	045
OPTONICA	077
ORION	207 208 209 210 211
PANASONIC	087 148 169
PHILCO	045 115 123 128 132 148
PHILIPS	033 035 036 123 128 132 145 148
PIONEER	024 123 128
PORTLAND	128 132
PROSCAN	133
PROTON	059 122 128 132 165
QUASAR	032 087
RADIO SHACK	045 128 132 180 196 197
RCA	021 115 123 128 133 145 161 163
REALISTIC	045 167 196
RUNCO	152 153
SAA	183
SAMPO	059 123 128
SAMSUNG	020 022 124 128 132 145
SANYO	026 054
SCOTT	045 128 132
SEARS	128 132 145
SHARP	077 128 132
SIEMENS	084
SIGNATURE	069
SONY	028 031 117 130 136 194 212
SOUNDESIGN	045 128
SPECTRICON	122
SSS	045
SYLVANIA	025 123 128 145 148
SYMPHONIC	184
TANDY	077
TATUNG	063
TECHNICS	181
TECHWOOD	128
TEKNIKA	045 069 115 123 128 132
TELERENT	069

TV Manufacturer/Brand	Setup Code Number
TERA	156
THOMSON	190 191
TMK	128
TOSHIBA	063 129 202
TOTEVISION	132
VIDEO CONCEPTS	160
VIDTECH	128
WARDS	069 128 132 148
YAMAHA	123 128
YORK	128
YUPITERU	045
ZENITH	069 090
ZONDA	122

APPENDIX

Table A10 – Remote Control Product Codes – VCR

VCR Manufacturer/Brand	Setup Code Number
AIWA	040
AKAI	048 108 109 126
AMPRO	076
ASA	134
AUDIO DYNAMICS	018 048
BROKSONIC	110 147
CANDLE	134 135
CANON	135 140
CAPEHART	094
CITIZEN	134
CRAIG	045 116
DAEWOO	017 094 104
DAYTRON	094
DBX	018 048
DYNATECH	040
EMERSON	013 040 042 110 112
FISHER	017
FUNAI	040
GE	076 095 124
GO VIDEO	113
GOLDSTAR/LG	018 107
HARMAN KARDON	002 003 018 049
HITACHI	040 048
JC PENNEY	018 045
JENSEN	048
JVC	018 048 111 132
KENWOOD	020 048
LLOYD	040
LXI	020 040
MAGIN	045
MAGNAVOX	040
MARANTZ	018
MEMOREX	017 020 040 052 053 054 076
MGA	049
MITSUBISHI	049 131
MULTITECH	040
NAD	139
NATIONAL	140
NEC	018 048
NORDMENDE	048
OPTIMUS	159
ORION	147
PANASONIC	125 150 167 172
PHILCO	040
PHILIPS	040 075
PORTLAND	094
PULSAR	076
QUASAR	001 125
RADIO SHACK	055 134 140 142 158 159
RCA	095 124 125 157 172
REALISTIC	017 020 040 045 159
SALORA	020

VCR Manufacturer/Brand	Setup Code Number
SAMSUNG	045 051 095 105 109
SANSUI	048 116 147
SANYO	017 020
SCOTT	110 112
SEARS	017 020
SHARP	129 156
SONY	080 129
SOUNDESIGN	040
SYLVANIA	040
SYMPHONIC	040
TANDY	017 040
TASHICO	134
TATUNG	048
TEAC	040 048
TEKNIKA	040
THOMAS	040
TiVo	002 003 004 005 007 008 012
TMK	013
TOSHIBA	112 155
TOTEVISION	045
UNITECH	045
VECTOR RESEARCH	018
VIDEO CONCEPTS	018 040
VIDEOSONIC	045
WARDS	040 045 112
YAMAHA	018 040 048
ZENITH	040 050 076 083

Table A11 – Remote Control Product Codes – CD

CD Manufacturer/Brand	Setup Code Number
ADCOM	063 069
AIWA	072 111 118 156 170
AKAI	050 177 184
AUDIO TECHNICA	053
AUDIOACCESS	125
AUDIOFILE	211
BSR	044
CALIFORNIA AUDIO	109
CAPETRONIC	070
CARRERA	087
CARVER	136 140 141 143 144 145 185 186
CASIO	117 166
CLARINETTE	166
DENON	187 188 213
EMERSON	052 093 108
FISHER	055 095
FRABA	117
FUNAI	126
GE	164
GENEXXA	108
GOLDSTAR/LG	016 087
HAITAI	099 214
HARMAN KARDON	001 002 025 054 190
HITACHI	093
INKEL	216
JC PENNEY	098 147
JENSEN	153
JVC	176 195 196
KENWOOD	030 062 078 079 148 151 176 178 181
LOTTE	108
LUXMAN	077 102
LXI	164
MAGNAVOX	039 113
MARANTZ	058 084 191 192 193
MCINTOSH	194
MCS	080 098
MITSUMI	152
MODULAIRE	166
NAD	013 074 197 198
NAKAMICHI	199 200 201
NEC	069
NIKKO	053 055
ONKYO	037 038 045 046 171 175 202 203
OPTIMUS	065 089 091 092 099 104 212
PANASONIC	075 109 119 158 183 204
PHILIPS	039 138 149 209
PIONEER	071 094 100 112 123 131 161 162 215
PROTON	210
QUASAR	109
RADIO SHACK	126 166 213

CD Manufacturer/Brand	Setup Code Number
RCA	024 081 093 150
RCX	169
REALISTIC	058 093 095 104 105 108 164 166
SANSUI	047 081 134 157 172
SANYO	033 082 095
SCOTT	108
SHARP	058 105 114 151 159 167 180 181
SHERWOOD	003 041 058 105 133
SONY	103 115 116 118 132 139 163 205 206 207 208 212 217
SOUNDSTREAM	124
SYMPHONIC	059 110
TAEKWANG	177
TEAC	011 058 085 086 106 107 110 121 137 146 154
THETA DIGITAL	039
TOSHIBA	013 074 097 151 155 173
VECTOR RESEARCH	087
VICTOR	120 130
WARDS	095
YAMAHA	019 031 053 061 135 169
YORK	166

APPENDIX

Table A12 – Remote Control Product Codes – DVD

DVD Manufacturer/Brand	Setup Code Number
APEX DIGITAL	061
DENON	019 051
GE	003 004
GOLDSTAR/LG	005 055 064 066
HARMAN KARDON	001 002 068
JVC	006
MAGNAVOX	056
MARANTZ	059
MITSUBISHI	023
NAD	062
ONKYO	009 048
PANASONIC	024 030 044
PHILIPS	056
PIONEER	041 065
PROCEED	060
PROSCAN	003 004
RCA	003 004
SAMSUNG	053 054
SHARP	028
SONY	043 045
THOMSON	003 004
TOSHIBA	009 058 067
YAMAHA	030 063
ZENITH	005 055 064

Table A13 – Remote Control Product Codes – SAT

SAT Manufacturer/Brand	Setup Code Number
ALPHASTAR	472
ALPHASTAR DBS	450
ALPHASTAR DSR	442
BIRDVIEW	425
CHANNEL MASTER	320 321 325 361
CHAPARRAL	315 316 451
CITOH	360
DRAKE	313 317 318 413 481
DX ANTENNA	331 352 379 483
ECHOSTAR	395 397 452 453 463 477 478 484 485
ELECTRO HOME	392
FUJITSU	324 329 334
GENERAL INSTRUMENT	303 311 323 365 403 454 468 474
HITACHI DBS	455
HOUSTON TRACKER	463
HUGHES	437 489
JANIEL	366
JERROLD	454 468 484
KATHREIN	410
LEGEND	453
MACOM	317 365 369 370 371
MAGNAVOX	461 473
MEMOREX	453
NEXTWAVE	423
NORSAT	373
OPTIMUS	466
PACE DSS	487
PANASONIC	366 469
PANASONIC DBS	457
PANSAT	420
PERSONAL CABLE	418
PHILIPS	375
PICO	407
PRESIDENT	381 404
PRIMESTAR	412 454 468 475
RCA	301 439 465 490
RCA DSS	458
REALISTIC	349 480
SAMSUNG	442
SATELLITE SERVICE CO	335 388
SCIENTIFIC ATLANTA	339
SONY	405
STAR CHOICE DBS	459
STARCAST	347
SUPER GUIDE	327 423
TELECOM	330 333 390 391 393 409
TOSHIBA	302 426 460 461 462 470
UNIDEN	323 332 348 349 350 351 354 355 381 383 389 403 466 479 480
ZENITH	384 385 387 394 419 488

APPENDIX

Table A14 – Remote Control Product Codes – TAPE

Tape Manufacturer/Brand	Setup Code Number
HARMAN KARDON	001

Table A15 – Remote Control Product Codes – CBL

CBL Manufacturer/Brand	Setup Code Number
ABC	001 011
ALLEGRO	111
AMERICAST	212
ARCHER	112
BELCOR	113
CABLE STAR	033 113
CITIZEN	111
COLOUR VOICE	085 090
DIGI	114
EAGLE	186
EASTERN	066 070
ELECTRICORD	039
EMERSON	112
FOCUS	116
G.I.	001 011 017 096 097
GC ELECTRONICS	113
GEMINI	032 060
GENERAL	210
GENERAL INSTRUMENT	210
GOODMIND	112
HAMLIN	056 099 100 101 117 175 208
HITACHI	001 188
JASCO	111
JERROLD	001 002 011 017 073 096 097 162 188 210
LINDSAY	118
MACOM	191
MAGNAVOX	017 019 068
MOVIE TIME	035 039
NSC	035 190
OAK	197 220
PACE	179
PANASONIC	053 176 177 189 214
PANTHER	114
PHILIPS	013 019 020 085 090
PIONEER	001 041 119 171 209 215 216
POPULAR MECHANICS	116
PRELUDE	120
PRIMESTAR	162
RADIO SHACK	111 112 213
RCA	053 214
RECOTON	116
REGAL	056 099 100 101 208
REMBRANDT	032
SAMSUNG	003 072 186

CBL Manufacturer/Brand	Setup Code Number
SCIENTIFIC ATLANTA	183 203 221 222
SEAM	121
SIGNATURE	001 188
SPRUCER	053 081 177 189
STARCOM	002 011 163
STARGATE	120
TANDY	024
TELECAPATION	028
TEXSCAN	036
TFC	122
TIMELESS	123
TOCOM	170 205
UNITED CABLE	011
UNIVERSAL	033 034 039 042 113
VIDEOWAY	124 211
VIEWSTAR	019 025 086 089 190
ZENITH	065 125 211 219
ZENTEK	116

Table A16 – Remote Control Product Codes – THE BRIDGE/DMP

Manufacturer/Brand	Setup Code Number
HARMAN KARDON	001
TEN TECHNOLOGIES	002