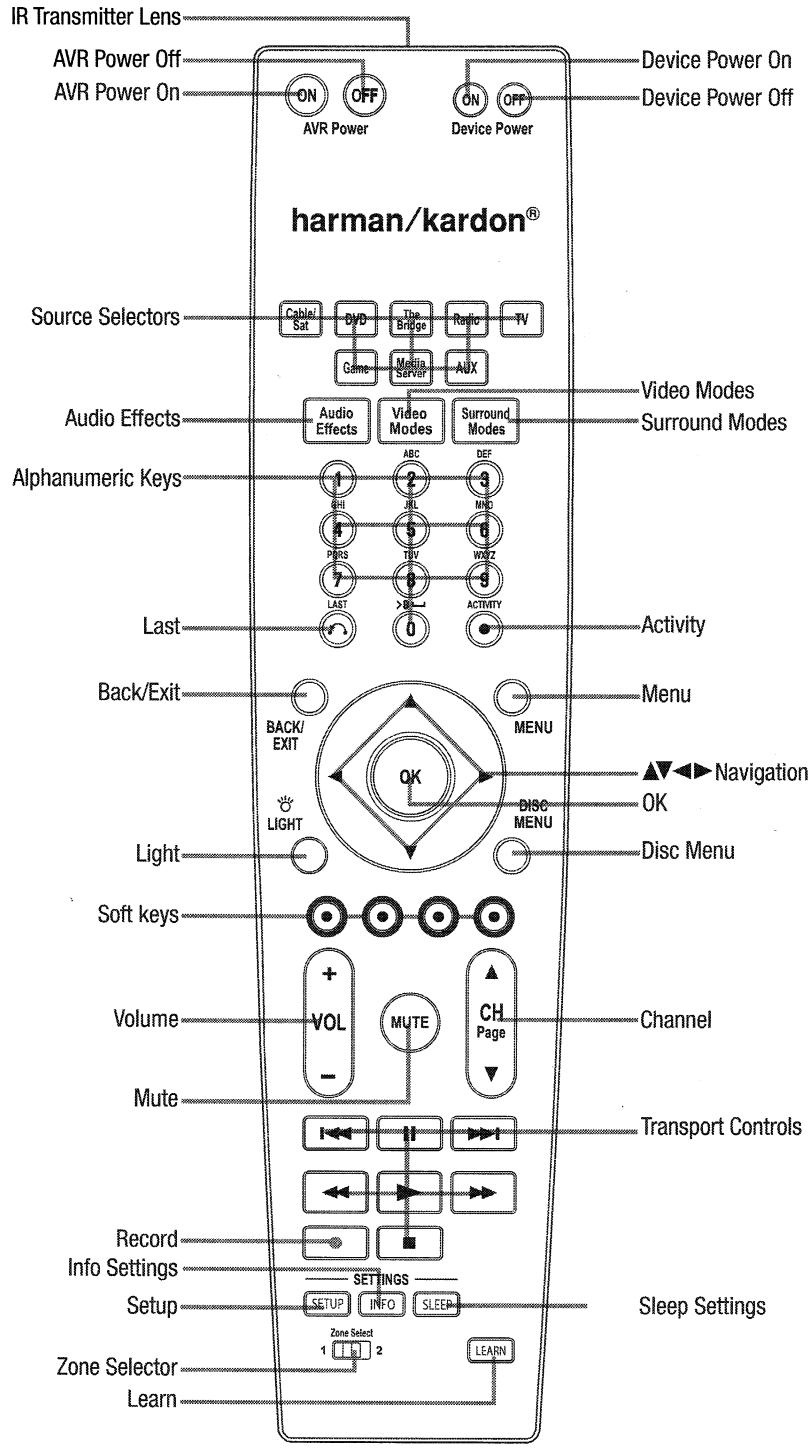
# MAIN REMOTE CONTROL FUNCTIONS




**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.

# MAIN REMOTE CONTROL FUNCTIONS

The AVR 3600 remote is capable of controlling 8 devices, including the AVR itself and an iPod docked in the included The Bridge III. During the installation process, you may program the codes for each of your source components into the remote. To operate a component, press its Selector button to change the device mode.

Each Source 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 AUX and Cable/SAT Source Selectors may be used for multiple device types, depending on the first digit of the product code. Other Source Selectors may be reassigned to other device types (see Initial Setup section).

**AUX Source Sector:** CD player product codes begin with 0, 1 or 2. VCR codes begin with 3 or 4. HDTV set-top box codes begin with 6, PVD codes begin with 7 and TiVo® set-top box codes begin with 8.

**Cable/SAT Source Selector:** Cable set-top box codes begin with 0, 1 or 2, and satellite set-top box codes begin with 3 or 4.

**IMPORTANT NOTE:** All of the AVR 3600's audio and video inputs are independently assignable. Select the inputs to which the device is physically connected during Initial setup. Any device may be connected to any compatible input and given any name (e.g., DVD or Game).

Most of the buttons on the remote have dedicated functions, although the precise codes transmitted vary depending on the device mode. Due to the wide variety of functions for various source devices, we have included only a few of the most-often used functions on the remote: alphanumeric keys, transport controls, television-channel control, menu access and power on and off.

Buttons dedicated to the AVR are available at any time, even in another device mode: AVR Power On and Off, Audio Effects, Video Modes, Surround Modes, Volume, Mute and Sleep Settings. Press the Setup button near the bottom of the remote to return it to AVR mode.

A button's function depends on which component is being controlled. See Table A13 in the appendix for listings of the functions for each type of component.

**IR Transmitter Lens:** As buttons are pressed on the remote, infrared codes are emitted through this lens.

**AVR Power On Button:** Press to turn on the AVR. The Master Power Switch on the rear panel must be on.

**Device Power Off Button:** Press a device's Source Selector, then press this button to turn off the device.

**Device Power On Button:** Press a device's Source Selector, then press this button to turn on the device.

**Mute Button:** Press to mute the AVR 3600's speaker and headphone outputs. To end the muting, press this button, adjust the volume, or turn off the receiver.

**AVR Power Off Button:** Press to turn off the AVR 3600.

**Source Selectors:** Press one of these buttons to select a source device, e.g., DVD, CD, cable TV, satellite or HDTV tuner. This will also turn on the receiver and switch the remote's device mode to operate the source. The first press of the Radio Selector switches the AVR to the last-used tuner band (AM, FM or SIRIUS). Each successive press changes the band.

**Audio Effects:** Press to directly access the Audio Effects submenu, which allows adjustment of the AVR's tone and other audio controls. See the Initial Setup section for more information.

**Video Modes:** Press for direct access to the Video Modes submenu, which contains picture settings to be used after you have adjusted the picture settings on the video display or TV. See the Advanced Functions section for more information.

**Surround Modes:** Press to directly access the Surround Modes submenu. Select a Surround mode category: Auto Select, Virtual Surround, Stereo, Movie, Music or Video Game. The surround mode will change when the menu line is highlighted.

To change the surround mode for the selected category, press the OK Button when the menu line is highlighted and select one of the available surround mode options, using the ▲/▼ Buttons. Press the OK Button, then press the Back/Exit Button to exit the Surround Modes menu and display the next higher menu in the hierarchy.

See the Advanced Functions section for more information on surround modes.

**Sleep Settings Button:** Press to activate the sleep timer, which turns off the receiver after a programmed period of time of up to 90 minutes. Each press increases the timer by 10 minutes, ending with the "Sleep Off" message.

**Volume Control:** Press to raise or lower the volume.

**Navigation (▲/▼◄/►) and OK Buttons:** These buttons are used to make selections within the menu system and to operate the tuner.

**Alphanumeric Keys:** Use these buttons to enter numbers for radio station frequencies or to select station presets.

**Last Channel:** When controlling a cable, satellite or HDTV set-top box or a TV, press this button to return to the previous television channel.

**Activity:** With this button, up to eleven Activities may be programmed to transmit a series of commands with a single press. Execute an Activity by pressing this button, then the Alphanumeric Key (or the AVR Power On or Off Button) into which it was programmed. See the Advanced Functions section for more information on Activities.

**Back/Exit:** Press to return to the previous menu or to exit the menu system.

**Menu Button:** This button is used within the Now Playing menu for the tuner (including SIRIUS Radio), and The Bridge III, and to display the main menu on some source devices. To display the AVR 3600's main menu, press the Setup Button.

**Disc Menu:** While a DVD is playing, press the DVD Source Selector, then this button, to display the disc's menu.

**Soft keys:** These buttons are used with some source devices. See Table A13 in the appendix for details. They are also used with a Teletext-capable television if your broadcast, cable or satellite provider offers Teletext service.

**Channel/Page Control:** When the tuner has been selected, this control selects a preset radio station. While operating a cable, satellite or HDTV set-top box or a television, press these buttons to change channels.

**Record Button:** Use this button to make recordings when an audio or video recorder is in use.

**Setup Button:** Press to display the AVR's Main Menu, or to switch the remote to AVR device mode.

**Info Settings Button:** Press to display the AVR's Info Menu, which contains the settings for the current source.

**Source Settings Button:** Press a Source Selector and then this button to display a source device's settings menu.

**Zone Selector:** Use this switch to select whether AVR commands will affect the main listening area (Zone 1) or the remote zone of a multizone system (Zone 2). For normal operation, leave the switch in the Zone 1 position.

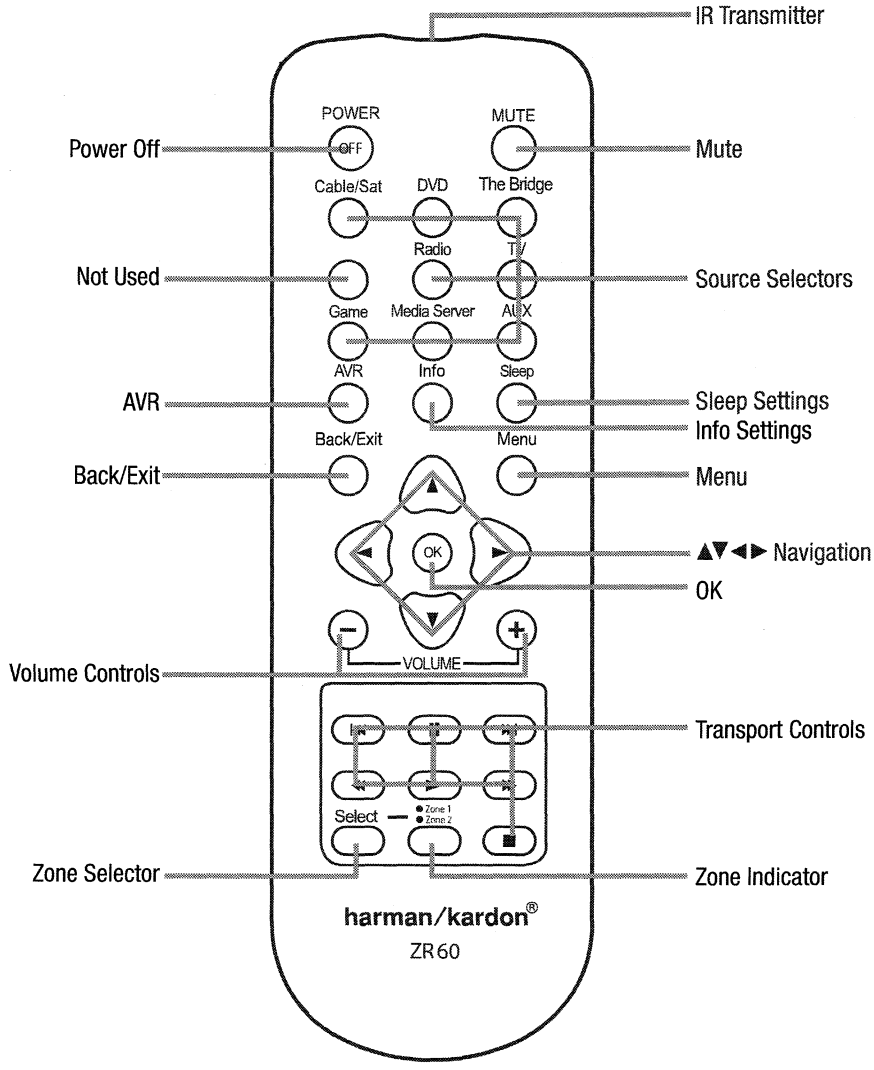
**Track Skip:** These buttons are used with source components to change tracks or chapters.

**Transport Controls:** These buttons are used to control source components and The Bridge III.

**Light:** Press to illuminate the buttons on the remote. Press it again to turn the backlight off, or wait ten seconds after the last button press for the light to turn off on its own.

**Learn:** The AVR 3600 remote is capable of "learning" individual IR codes from the original remote that came with a source device. See page 16 in the Installation section.

# ZONE 2 REMOTE CONTROL FUNCTIONS




**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.

# ZONE 2 REMOTE CONTROL FUNCTIONS

The Zone 2 remote control is used in the remote zone of a multizone system with an IR receiver connected to the Zone 2 IR Input or an A-BUS device. It may be used to control the power, volume and mute functions or to select a source input for the remote zone, and to control a Harman Kardon source connected to one of the AVR's Remote IR Outputs or the A-BUS IR Output.

The Zone 2 remote may also be used in the main listening room to directly control the AVR 3600 and Harman Kardon DVD, CD or tape players. When the Zone Selector is pressed to switch the remote to Zone 1 mode (the Zone Indicator will turn green), the power, volume and mute controls will only affect the main listening area. To control operation for the remote zone, press the Zone Selector so that the Zone Indicator turns red.

The Zone 2 remote requires two AAA batteries (included) that are installed in the battery compartment on the back of the remote. Make sure to observe proper polarity by matching the + and – symbols on the batteries to the symbols printed inside the compartment.

**IR Transmitter:** This lens emits infrared codes when buttons on the remote are pressed.

**Power Off:** Press to turn the AVR 3600 off. The Zone 2 remote has no Power On Button, since the AVR turns on its multizone system automatically when any of the Input Selectors is pressed, while the remote is in Zone 2 mode; even if the AVR itself is in Standby mode. When in the main listening room, press any Input Selector or the AVR Selector to turn on the AVR 3600.

**Mute:** Press to mute the AVR 3600's remote zone speakers temporarily. To end the muting, press this button, adjust the volume, or turn off the multizone system. Make sure to switch the remote to Zone 2 mode, so that only the remote zone will be affected.

**Source Selectors:** With the remote in Zone 2 mode, press one of these buttons to select a source device for the remote zone. It will also turn on the multizone system and switch the remote to the source's device mode. You may select a different external source device than that for the main room, but not different tuner bands. If you select the same source as that for the main room, then any commands sent to the source will affect both zones. The first press of the Radio Selector switches the AVR to the last-used tuner band (AM, FM or SIRIUS). Each successive press changes the band.

The DVD Source Selector may be used to operate either a Harman Kardon Blu-ray Disc player, or a Harman Kardon DVD player. The default mode is to operate a Harman Kardon Blu-ray Disc player. To toggle between Harman Kardon Blu-ray Disc-player and DVD-player operation, press and hold the DVD Source Selector for 2 seconds. The source selector will flash twice to confirm that the remote's mode has changed to operate the other type of disc player.

**NOTE:** The blank button to the left of the Radio Selector is not used, even though pressing it causes the Zone Indicator to light up.

**Transport Controls:** These buttons are used to control The Bridge III and many source components.

**Setup Button:** Press to turn on the AVR and select the last-used source. It is also used to switch the remote to AVR device mode.

**Info Settings Button:** In Zone 1 mode, press to display the AVR's Info Setting's Menu, which contains the settings for the current source.

**Sleep Settings Button:** Press to activate the sleep timer, which turns off the receiver after a programmed period of time of up to 90 minutes. Each additional press increases the timer by 10 minutes, ending with the "Sleep Off" message.

**Back/Exit:** Press to return to the previous menu or to exit the menu system.

**Menu Button:** This button is used within the Now Playing menu for the tuner (including SIRIUS Radio), and The Bridge III, and to display the main menu on some source devices.

**Navigation (▲/▼◄/►) and OK Buttons:** These buttons are used to make selections within the menu system and also to operate the tuner and The Bridge III.

**Zone Selector and Zone Indicator:** Each press of the Zone Selector determines whether the AVR commands will affect the main listening area (Zone 1) or the remote zone (Zone 2). The Zone Indicator will turn green when Zone 1 has been selected, and red for Zone 2. The Zone Indicator will also light briefly when any button is pressed.

**Volume Controls:** Press to raise or lower the volume level in the remote zone.

Leave the Zone Selector Switch at the bottom in the Zone 1 position for normal use.

If the remote seems to operate intermittently, or if pressing a button on the remote does not cause the Setup Button or one of the Source Selectors to light, check or replace the batteries.

## STEP TWELVE – Program Sources Into the Remote

The AVR 3600 remote may be programmed to control many brands and models of DVD players, cable boxes, satellite receivers, the Harman Kardon DMC 1000 digital media center and TVs. It is also preprogrammed to operate your iPod when docked in The Bridge III.

To access the functions for a particular device, switch the remote's device mode. Press the Setup Button to access the codes that control the receiver, or the Source Selector Buttons to access the codes for the devices programmed into the remote.

Follow these steps to program the correct codes for each source device into the remote:

1. Look up the codes for the product type (e.g., DVD, cable TV box) and the brand name of your source in Tables A14–A24 of the Appendix.

**NOTE:** The AUX Source Selector is used for the CD, HDTV, PVD recorder, TiVo and VCR device types. Similarly, the Cable/SAT Source Selector is used for either a cable or satellite TV set-top box. The first digit of the product code indicates the device type.

2. Turn on your source device.
3. Place the remote in program mode: Press and hold the Source Selector as it turns red, goes dark, and turns red again. Then release it.

**Optional:** To reassign a Source Selector's device type (e.g., if there are two DVD players in the system), press the Source Selector for the new device type now. For example, to reassign the Cable/Sat Source Selector to operate a DVD player, first press and hold the Cable/Sat Button, then press the DVD Button.

The remote is preprogrammed at the factory to operate a Harman Kardon Blu-ray Disc™ player when in DVD device mode. It is not necessary to change the device type to program a DVD player's codes.

4. Enter a code from Step 1, above.
   a) If the device turns off, press the Source Selector again to save the code. It will flash and the remote will exit Program mode.
   b) If the device does not turn off, enter another code. If you run out of codes, 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, save the code by pressing the Source Selector. It will flash, and the remote will exit Program mode.
5. Check that other functions control the device correctly. Sometimes manufacturers use the same Power code for several models, while other codes vary. Repeat this process until you've programmed a satisfactory code set that operates most functions.
6. Find out which code number you have programmed by pressing and holding the Source Selector to enter the Program mode. Press the OK Button, and the Source Selector 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 A9 in the appendix.

### Learning

You may "learn" individual key codes if you have the device's original remote control by following this procedure:

a) Place the two remotes with their IR transmitters facing each other, about one inch apart. See Figure 18.

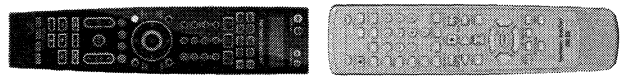


Figure 18 – AVR and Device Remotes "Head to Head"

b) Press the destination Source Selector, then press and hold the Learn Button until the Source Selector lights up.

c) Press the destination button, and the Source Selector will flash once. You may learn a new code into the following buttons: Device Power On/Off, Alphanumeric Keys, Last Button, Back/Exit Button, Menu Button, ▲/▼◄/► Navigation Buttons, OK Button, Disc Menu Button, the four Soft key Buttons, Channel Up/Down, Volume Up/Down, Mute and the Transport Controls (including Record).

d) Press and hold the source button until the Source Selector flashes three times.

e) Program additional buttons by repeating steps c) and d). Press the Learn Button once to exit Learning mode, or wait for the remote to "time out" and exit Learning mode on its own after about 30 seconds.

Most of the button labels on the remote describe the button's function when used to control the AVR 3600. However, the button may perform a different function when used to control another device. Refer to the Remote Control Function List, Table A13 in the Appendix.

Activities are preprogrammed code sequences that execute many code commands with a single button press. "Punch-through" programming allows the remote to operate a device's channel or transport controls with the remote in another device's mode. See page 38 for instructions on these advanced programming functions.

## STEP THIRTEEN – Turn On the AVR 3600

Two steps are required the first time you turn on the AVR 3600.

1. Flip the rear-panel Main Power Switch to the "On" position. The Power Indicator on the front panel will turn amber, indicating that the AVR is in Standby mode and is ready to be turned on. Normally, you may leave the Main Power Switch on, even when the receiver is not being used.

2. There are several ways to turn on the AVR from Standby mode.
   a) Press the Standby/On Switch on the front panel.
   b) Using the remote, press the AVR Power On Button or any of the Source Selectors.

**NOTES:**

- Any time you press one of the Source Selectors on the remote, the remote will switch device modes. To control the receiver, press the Setup Button. Some AVR functions are available in all device modes: Volume Controls (including Mute), Audio Effects, Video Modes, Surround Modes, Setup, Info Settings, Sleep Settings and AVR Power On and Off.
- If you do not see a picture within about 1 minute, refer to the Video Troubleshooting Tips on page 33.

**HDMI Audio to TV:** Determines whether HDMI audio signals are passed through the HDMI Output to the video display. In normal operation, leave this setting Off, as audio will be played through the AVR. To use the TV by itself, without the home theater system, turn this setting On. Mute the TV's speakers when using the AVR for audio.

**Dolby Volume Calibration:** This setting determines the Dolby Volume Calibration Offset, as described on page 32. Its default of 0dB is best when the system's loudspeakers have a sensitivity rating of 88dB (8 ohms, 1 watt, 1 meter). If your loudspeakers have a higher sensitivity rating, increase the Dolby Volume Calibration setting by the difference between your speakers' sensitivity and 88dB. If your speakers have a lower sensitivity, decrease the Dolby Volume Calibration setting by the difference between 88dB and your speakers' sensitivity.

## Menu Appearance

**Menu Transparency:** Select whether video programs will be visible when the menu system is in use. Select Normal for a fully transparent background, Medium for partial transparency or Opaque to block video programs while the menus are on screen.

**Volume Status Messages:** When the AVR is turned on, the volume is adjusted or the source is changed, or if a change in the input signal is detected, a status message will be displayed on screen. Select how long the message remains visible, from 2 to 10 seconds, with a default of 3 seconds. Select "Off" if you do not wish to see the status messages.

**Menus:** This setting governs how long the Surround Modes, Video Modes and Audio Effects menus remain visible after the last adjustment: 5, 10 or 30 seconds, 1 minute or 5 minutes. Select "No Time-Out" to view the menus indefinitely, but this setting is not recommended, due to the danger of "burn-in" on some video displays.

**Setup and Slide-In Menus:** This setting determines how long the setup menus (Main Menu, Speaker Setup Menu, Zone 2 Menu, all slide-in menus) remain visible after the last adjustment. Select a time-out period of 5, 10 or 15 (the default) minutes, or no time-out, which leaves the menus on screen until manually cleared. A time-out period avoids the possibility of burn-in damage to plasma or CRT displays.

**Screen Saver:** Program a time-out period for no activity (with no menus displayed) before the AVR's built-in screen saver begins. Select a period of 5, 10, 20 or 30 minutes or 1 hour, or turn off the screen saver. A time-out period avoids the possibility of burn-in damage to plasma or CRT displays.

## System Information

**Software Version:** This line is informational only. From time to time, Harman Kardon, Inc., may release software upgrades that improve performance or add features. If you are experiencing difficulties with the AVR, a customer service representative may ask for the software version of your product to determine whether a later upgrade is available.

**Upgrade Software:** If a software upgrade is released for the AVR 3600, installation instructions will be available in the Product Support section of the Web site or from Harman Kardon Customer Service. At that time, you may access this submenu to install the upgrade software.

**NOTE:** During a system upgrade, do not power off the AVR or use any of its controls. Doing so could permanently damage the AVR.

# ADVANCED REMOTE CONTROL FUNCTIONS

The AVR 3600 remote control also serves as a universal remote that may be programmed to operate other components. Refer to the Function List (Table A14 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 punch-through feature allows you to operate one component, while setting certain groups of controls to operate another component. For example, while using the AVR controls for 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.

To program punch-through control while operating any device:

1. Press and hold the Source Selector (or Setup Button) for the main device the remote will be operating. The Source Selector will light, go dark and then light up again, indicating the remote is in Program mode and that you may release the button.
2. Select the type of punch-through programming.
   a) For channel control punch-through, press the Channel Up Button.
   b) To program transport control punch-through, press the Play Button.
3. Press the Source Selector for the device whose channel or transport controls will be used while operating the device selected in the first step. The Source Selector will flash to confirm.

For example, to watch the TV while changing channels using the cable box, press and hold the TV Button until it lights. Then press the Channel Up Button, followed by the Cable/SAT Button.

To undo punch-through programming, follow the same steps as above, but press the same Source Selector in Steps 1 and 3.

**NOTE:** The Volume and Mute controls are always dedicated to the AVR.

## Activities (Macros)

Activities are used to program sequences of up to 19 commands that are executed with a single button press. Activities are well suited for power on and off commands, to send out a multidigit channel number with one button press, or to control another device with more flexibility than the built-in punch-through controls. Up to eleven activities may be programmed.

**NOTE:** Use caution when programming complicated activities. 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 immediately after powering on.

To program, or "record" an activity, follow these steps:

1. To enter Program mode, simultaneously press and hold the Activity Button and the Alphanumeric Key or AVR Power On or Off Button to which the activity will be assigned.
2. Press the Source Selector (or Setup Button) for each device before you enter individual commands. This step counts as one of the 19 commands allowed for each activity.
3. For Power On, press the AVR or Device Power On Button.
4. Press the AVR or Device Power Off Button for Power Off.
5. Press the Activity Button to end the programming process, and the last Source Selector (or the Setup Button) will flash three times.

It isn't possible to "edit" a command within an activity. To erase the activity:

1. Press and hold the Activity Button and the Alphanumeric Key or AVR Power On or Off Button until the Source Selector or Setup Button lights.
2. Press the Activity Button to erase the activity.

To execute an activity, press the Activity Button, then press the Alphanumeric Key (or the AVR Power On or Off Button) for the Activity.

## Learning

If you have programmed a product's codes into the remote and find that some functions are missing, the AVR 3600 remote may "learn" individual codes from the product's original remote. See page 26.

## Resetting the Remote

To reset the remote to its factory defaults, simultaneously press and hold the TV Source Selector and the "0" Alphanumeric Key. When the TV Button re-lights, enter the code "333". When the TV Button goes out, and all of the Source Selectors flash, the remote will be reset.

## PROCESSOR RESET

If the unit behaves erratically after a power surge, first tun off the Main Power Switch and unplug the AC power cord for at least 3 minutes. Plug the cord back in and turn the receiver on. If this doesn't help, reset the AVR.

**NOTE:** A system reset erases all user configurations, including video resolution, speaker and level settings, and tuner presets. After a reset, reenter all of these settings from your notes in the appendix worksheets.

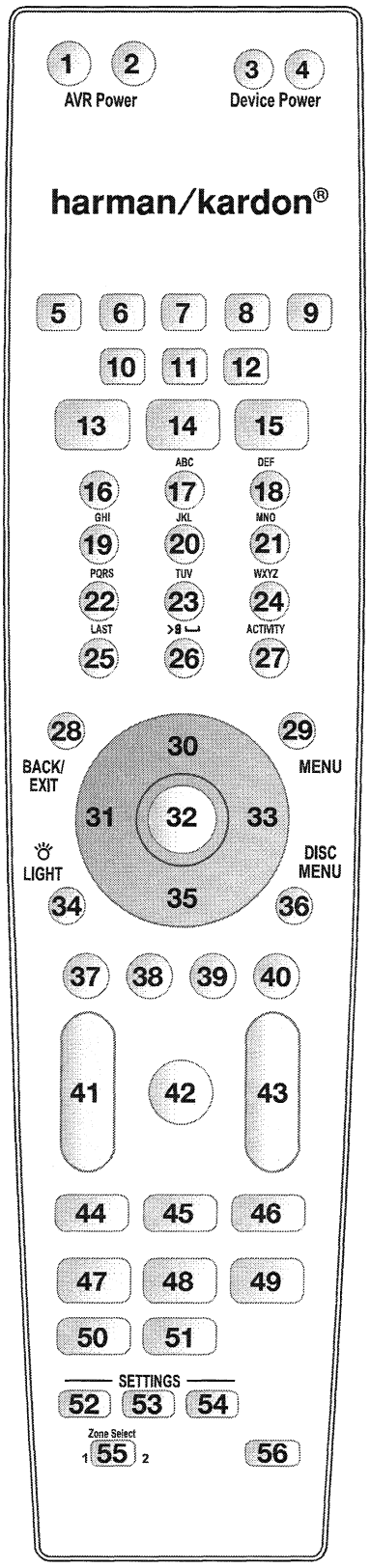
To reset the AVR 3600, place it in Standby mode (press the front-panel Standby/On Switch so that the Power Indicator turns amber). Then press and hold the front-panel OK Button for at least 5 seconds until the RESET message appears.

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

**NOTE:** After performing a system reset, wait at least 1 minute before pressing any Source Selectors.

## MEMORY

If the AVR 3600 is unplugged or experiences a power outage, it will retain user settings for up to four weeks.




Refer to the numbered buttons in Figure 40 when using the Function List.

Figure 40 – Remote Control Function List Reference

## Table A13 – Remote Control Function List

| No. | Button Name | AVR | Radio | | | DVD | Media Server | TV | The Bridge |
|---|---|---|---|---|---|---|---|---|---|
| | | | FM | AM | XM | | DMC1000 | | |
| 01 | AVR Power On | AVR Power On | AVR Power On | AVR Power On | AVR Power On | AVR Power On | AVR Power On | AVR Power On | AVR Power On |
| 02 | AVR Power Off | AVR Power Off | AVR Power Off | AVR Power Off | AVR Power Off | AVR Power Off | AVR Power Off | AVR Power Off | AVR Power Off |
| 03 | Device Power On | | | | | Power On | On | Power On | Power On |
| 04 | Device Power Off | | | | | Power Off | Off | Power Off | Power Off |
| 05 | Cable/SAT | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel |
| 06 | DVD | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel |
| 07 | The Bridge | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel |
| 08 | Radio | Radio | Radio | Radio | Radio | Radio | Radio | Radio | Radio |
| 09 | TV | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel |
| 10 | Game | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel |
| 11 | Media Server | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel |
| 12 | AUX | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel |
| 13 | Audio Effects | Audio Effects | Audio Effects | Audio Effects | Audio Effects | Audio Effects | Audio Effects | Audio Effects | Audio Effects |
| 14 | Video Modes | Video Modes | Video Modes | Video Modes | Video Modes | Video Modes | Video Modes | Video Modes | Video Modes |
| 15 | Surround Modes | Surround Modes | Surround Modes | Surround Modes | Surround Modes | Surround Modes | Surround Modes | Surround Modes | Surround Modes |
| 16 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 17 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 18 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 19 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 20 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 21 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 22 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 23 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 24 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 25 | Last | Last | Last | Last | Last | | | Prev. Ch | Last |
| 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27 | Activity | Activity | Activity | Activity | Activity | Activity | Activity | Activity | Activity |
| 28 | Back/Exit | Back/Exit | Back/Exit | Back/Exit | Back/Exit | Clear | Back | | Back/Exit |
| 29 | Menu | Menu | Menu | Menu | Menu | Menu | Menu | Menu | Menu |
| 30 | Up | Up | Tune Up | Tune Up | Channel/Preset Up | Up | Up | Up | Up |
| 31 | Left | Left | Preset/Down | Preset/Down | Preset/Category Down | Left | Left | Left | Left |
| 32 | OK | OK | OK | OK | OK | Enter | Enter | OK | OK |
| 33 | Right | Right | Preset/Up | Preset/Up | Preset/Category Up | Right | Right | Right | Right |
| 34 | Light | Light | Light | Light | Light | Light | Light | Light | Light |
| 35 | Down | Down | Tune Down | Tune Down | Channel/Preset Down | Down | Down | Down | Down |
| 36 | Disc Menu | | | | | Disc Menu | Disc Menu | OSD | |
| 37 | Red | | | | | Angle | Angle | | |
| 38 | Green | | | | | Subtitle | Subtitle | | |
| 39 | Yellow | | | | | Audio | Audio | | |
| 40 | Blue | | | | | Zoom | Zoom | | |
| 41 | Volume + | AVR Volume + | AVR Volume + | AVR Volume + | AVR Volume + | AVR Volume + | AVR Volume + | AVR Volume + | AVR Volume + |
| | Volume – | AVR Volume – | AVR Volume – | AVR Volume – | AVR Volume – | AVR Volume – | AVR Volume – | AVR Volume – | AVR Volume – |
| 42 | Mute | AVR Mute | AVR Mute | AVR Mute | AVR Mute | AVR Mute | AVR Mute | AVR Mute | AVR Mute |
| 43 | Channel/Page Up | Channel/Preset Up | Preset Up | Preset Up | Preset Up | Page Up | | Channel Up | Page Up |
| | Channel/Page Down | Channel/Preset Down | Preset Down | Preset Down | Preset Down | Page Down | | Channel Down | Page Down |
| 44 | Previous | | | | | Prev. Step | Previous | | Previous |
| 45 | Pause | | | | | Pause | Pause | | Pause |
| 46 | Next | | | | | Next Step | Next Step | | Next |
| 47 | Rew ◄◄ | | | | | Rew ◄◄ | Rew ◄◄ | | Rew ◄◄ |
| 48 | Play ► | | | | | Play ► | Play ► | | Play ► |
| 49 | FF ►► | | | | | FF ►► | FF ►► | | FF ►► |
| 50 | Record | | | | | | Record | | |
| 51 | Stop | | | | | Stop | Stop | | Stop |
| 52 | Setup | AVR Sel and Setup | AVR Sel and Setup | AVR Sel and Setup | AVR Sel and Setup | AVR Sel and Setup | AVR Sel and Setup | AVR Sel and Setup | AVR Sel and Setup |
| 53 | Info Settings | Info Settings | Info Settings | Info Settings | Info Settings | Info Settings | Info Settings | Info Settings | Info Settings |
| 54 | Sleep | Sleep | Sleep | Sleep | Sleep | Sleep | Sleep | Sleep | Sleep |
| 55 | Zone Select | Zone Select | Zone Select | Zone Select | Zone Select | Zone Select | Zone Select | Zone Select | Zone Select |
| 56 | Learn | Learn | Learn | Learn | Learn | Learn | Learn | Learn | Learn |

## Table A13 – continued

| No. | Button Name | Cable/SAT | Game | AUX | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | CD | HDTV | PVD | TiVO | VCR |
| 01 | AVR Power On | AVR Power On | AVR Power On | AVR Power On | AVR Power On | AVR Power On | AVR Power On | AVR Power On |
| 02 | AVR Power Off | AVR Power Off | AVR Power Off | AVR Power Off | AVR Power Off | AVR Power Off | AVR Power Off | AVR Power Off |
| 03 | Device Power On | Power On | Play | Power On | Power On | Power On | Power On | Power On |
| 04 | Device Power Off | Power Off | Stop | Power Off | Power Off | Power Off | Power Off | Power Off |
| 05 | Cable/SAT | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel |
| 06 | DVD | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel |
| 07 | The Bridge | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel |
| 08 | Radio | Radio | Radio | Radio | Radio | Radio | Radio | Radio |
| 09 | TV | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel |
| 10 | Game | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel |
| 11 | Media Server | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel |
| 12 | AUX | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel | Input Sel |
| 13 | Audio Effects | Audio Effects | Audio Effects | Audio Effects | Audio Effects | Audio Effects | Audio Effects | Audio Effects |
| 14 | Video Modes | Video Modes | Video Modes | Video Modes | Video Modes | Video Modes | Video Modes | Video Modes |
| 15 | Surround Modes | Surround Modes | Surround Modes | Surround Modes | Surround Modes | Surround Modes | Surround Modes | Surround Modes |
| 16 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 17 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 18 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 19 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 20 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 21 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 22 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 23 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 24 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 25 | Last | Prev. Ch | Enter | | Prev. Ch | Instant Replay | Enter/Last | |
| 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27 | Activity | Activity | Activity | Activity | Activity | Activity | Activity | Activity |
| 28 | Back/Exit | Bypass | Clear | | Exit/Cancel | Exit | Exit | Cancel |
| 29 | Menu | Menu | Start | | Menu | Menu | Menu | Menu |
| 30 | Up | Up | Up | | Up | Up | Up | Up |
| 31 | Left | Left | Left | | Left | Left | Left | Left |
| 32 | OK | OK | Select | | Enter | Setup | Select | Enter |
| 33 | Right | Right | Right | | Right | Right | Right | Right |
| 34 | Light | Light | Light | Light | Light | Light | Light | Light |
| 35 | Down | Down | Down | | Down | Down | Down | Down |
| 36 | Disc Menu | OSD | DVD Menu | | OSD | AV | TiVo | OSD |
| 37 | Red | Guide | ● | Open/Close | Caption | Mark | Window | |
| 38 | Green | PPV | ■ | Random Play | Fav. Ch | Repeat | Live TV | |
| 39 | Yellow | Fav. Ch | ▲ | Repeat | MTS | Jump Up | Slow | |
| 40 | Blue | Music | X | Intro Scan | Aspect | Jump Down | Skip | |
| 41 | Volume + | AVR Volume + | AVR Volume + | AVR Volume + | AVR Volume + | AVR Volume + | AVR Volume + | AVR Volume + |
| | Volume – | AVR Volume – | AVR Volume – | AVR Volume – | AVR Volume – | AVR Volume – | AVR Volume – | AVR Volume – |
| 42 | Mute | AVR Mute | AVR Mute | AVR Mute | AVR Mute | AVR Mute | AVR Mute | AVR Mute |
| 43 | Channel/Page Up | Channel Up | Scan Up | (+10) | Channel Up | Channel Up | Channel Up | Channel Up |
| | Channel/Page Down | Channel Down | Scan Down | Disc Skip | Channel Down | Channel Down | Channel Down | Channel Down |
| 44 | Previous | | Slow Down | Skip Down | Back | Last Clip | Thumb Down | Scan Down |
| 45 | Pause | | Pause | Pause | Pause | Pause | Pause | Pause |
| 46 | Next | | Slow Up | Skip Up | Replay | Next Clip | Thumb Up | Scan Up |
| 47 | Rew ◄◄ | | Prev. | R. Search | Rew ◄◄ | Rew ◄◄ | Rew ◄◄ | Rew ◄◄ |
| 48 | Play ► | | Play ► | Play ► | Play ► | Play ► | Play ► | Play ► |
| 49 | FF ►► | | Next | F. Search | FF ►► | FF ►► | FF ►► | FF ►► |
| 50 | Record | | Subtitle | Time | Record | Record | Record | Record |
| 51 | Stop | | Stop | Stop | Stop | Stop | Stop | Stop |
| 52 | Setup | AVR Sel and Setup | AVR Sel and Setup | AVR Sel and Setup | AVR Sel and Setup | AVR Sel and Setup | AVR Sel and Setup | AVR Sel and Setup |
| 53 | Info Settings | Info Settings | Info Settings | Info Settings | Info Settings | Info Settings | Info Settings | Info Settings |
| 54 | Sleep | Sleep | Sleep | Sleep | Sleep | Sleep | Sleep | Sleep |
| 55 | Zone Select | | | | | | | |
| 56 | Learn | Learn | Learn | Learn | Learn | Learn | Learn | Learn |

Refer to Tables A14 through A24 when programming the codes for your components into the remote.

## Table A14 – Remote Control Product Codes: TV

| TV Manufacturer/Brand | Setup Code Number |
|---|---|
| AIWA | 027 |
| A MARK | 122 132 |
| ADMIRAL | 192 |
| AKAI | 123 160 |
| AMPRO | 164 |
| ANAM | 045 106 109 112 122 |
| AOC | 122 123 128 |
| BLAUPUNKT | 084 |
| BROKSONIC | 205 206 |
| CANDLE | 123 128 |
| CAPEHART | 059 |
| CENTURION | 123 171 |
| CENTRONIC | 045 |
| CITIZEN | 045 123 128 132 |
| CLASSIC | 045 |
| CONCERTO | 128 |
| CONTEC | 045 |
| CORANDO | 172 |
| CORONADO | 132 |
| CRAIG | 045 157 158 159 |
| CROWN | 045 132 |
| CURTIS MATHES | 123 128 132 |
| CXC | 045 |
| DAEWOO | 045 087 102 105 106 108 111 114 116 119 127 128 132 |
| DAYTRON | 128 132 |
| DIGI LINK | 200 |
| DYNASTY | 045 |
| DYNATECH | 063 |
| ELECTROHOME | 115 132 |
| EMERSON | 045 123 128 132 139 157 158 159 162 205 |
| FUNAI | 045 |
| FUTURETECH | 045 |
| GE | 029 087 121 123 128 133 145 159 163 |
| GRUNDIG | 193 |
| HALL MARK | 128 |
| HARMAN KARDON | 201 |
| HITACHI | 123 128 132 144 147 |
| INFINITY | 148 |
| INKEL | 120 |
| JBL | 148 |
| JC PENNEY | 115 123 128 132 145 |
| JENSEN | 019 |
| JVC | 079 087 134 |
| KAWASHO | 173 |
| KEC | 045 |
| KENWOOD | 123 204 |
| KMC | 132 |
| KTV | 045 123 132 162 |

| TV Manufacturer/Brand | Setup Code Number |
|---|---|
| LG/GOLDSTAR | 101 110 122 128 132 |
| LLOYTRON | 172 173 |
| LODGENET | 069 |
| 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 | 148 177 179 180 181 182 |
| 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 | 033 034 035 036 123 128 132 145 148 |
| 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 |

## Table A14 – continued

| TV Manufacturer/Brand | Setup Code Number |
|---|---|
| TATUNG | 063 |
| TECHNICS | 181 |
| TECHWOOD | 128 |
| TEKNIKA | 045 069 115 123 128 132 |
| TELERENT | 069 |
| 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 |

## Table A15 – Remote Control Product Codes: AUX-HDTV

| TV Manufacturer/Brand | Setup Code Number |
|---|---|
| LG | 604 |
| MOTOROLA | 605 |
| RCA | 601 |
| SAMSUNG | 603 |
| ZENITH | 602 |

## Table A16 – Remote Control Product Codes: AUX-VCR

| VCR Manufacturer/Brand | Setup Code Number |
|---|---|
| AIWA | 340 |
| AKAI | 348 408 409 426 |
| AMPRO | 376 |
| ASA | 434 |
| AUDIO DYNAMICS | 318 348 |
| BROKSONIC | 410 447 |
| CANDLE | 434 435 |
| CANON | 435 440 |
| CAPEHART | 394 |
| CITIZEN | 434 |
| CRAIG | 345 416 |
| DAEWOO | 317 394 404 |
| DAYTRON | 394 |
| DBX | 318 348 |
| DIRECTV | 314 315 |
| DYNATECH | 340 |
| EMERSON | 313 340 342 410 412 |
| FISHER | 317 |
| FUNAI | 340 |
| GE | 376 395 424 |
| GO VIDEO | 413 |
| HARMAN KARDON | 302 303 318 349 |
| HITACHI | 340 348 |
| JC PENNEY | 318 345 |

## Table A16 – continued

| VCR Manufacturer/Brand | Setup Code Number |
|---|---|
| JENSEN | 348 |
| JVC | 318 348 411 432 |
| KENWOOD | 320 348 |
| LG/GOLDSTAR | 318 407 |
| LLOYD | 340 |
| LXI | 320 340 |
| MAGIN | 345 |
| MAGNAVOX | 340 |
| MARANTZ | 318 |
| MEMOREX | 317 320 340 352 353 354 376 |
| MGA | 349 |
| MITSUBISHI | 349 431 |
| MULTITECH | 340 |
| NAD | 439 |
| NATIONAL | 440 |
| NEC | 318 348 |
| NORDMENDE | 348 |
| OPTIMUS | 459 |
| ORION | 447 |
| PANASONIC | 425 450 467 472 |
| PHILCO | 340 |
| PHILIPS | 340 375 |
| PORTLAND | 394 |
| PULSAR | 376 |
| QUASAR | 301 425 |
| RADIO SHACK | 355 434 440 442 458 459 |
| RCA | 395 424 425 457 472 |
| REALISTIC | 317 320 340 345 459 |
| SALORA | 320 |
| SAMSUNG | 345 351 395 405 409 |
| SANSUI | 348 416 447 |
| SANYO | 317 320 |
| SCOTT | 410 412 |
| SEARS | 317 320 |
| SHARP | 429 456 |
| SONY | 380 429 |
| SOUNDESIGN | 340 |
| SYLVANIA | 340 |
| SYMPHONIC | 340 |
| TANDY | 317 340 |
| TASHICO | 434 |
| TATUNG | 348 |
| TEAC | 340 348 |
| TEKNIKA | 340 |
| THOMAS | 340 |
| TiVo | 304 305 306 307 308 309 310 311 312 |
| TMK | 313 |
| TOSHIBA | 412 455 |
| TOTEVISION | 345 |
| UNITECH | 345 |
| VECTOR RESEARCH | 318 |
| VIDEO CONCEPTS | 318 340 |
| VIDEOSONIC | 345 |
| WARDS | 340 345 412 |
| YAMAHA | 318 340 348 |
| ZENITH | 340 350 376 383 |

## Table A17 – Remote Control Product Codes: AUX-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 |
| 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 |
| LG/GOLDSTAR | 016 087 |
| 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 |
| RCA | 024 081 093 150 |
| RCX | 169 |
| REALISTIC | 058 093 095 104 105 108 164 166 |

## Table A17 – continued

| CD Manufacturer/Brand | Setup Code Number |
|---|---|
| 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 |

## Table A18 – Remote Control Product Codes: DVD

| DVD Manufacturer/Brand | Setup Code Number |
|---|---|
| APEX DIGITAL | 061 |
| DENON | 019 051 |
| GE | 003 004 |
| HARMAN KARDON | 001 002 007 068 201 202 |
| JVC | 006 |
| LG/GOLDSTAR | 005 055 064 066 |
| 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 A19 – 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 |

## Table A20 – Remote Control Product Codes: GAME

| Game Manufacturer/Brand | Setup Code Number |
|---|---|
| MICROSOFT (XBOX) | 001 |
| SONY (PLAYSTATION 2) | 002 |

## Table A21 – Remote Control Product Codes: Cable

| Cable 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 |
| REMBRANT | 032 |

## Table A21 – continued

| CBL Manufacturer/Brand | Setup Code Number |
|---|---|
| SAMSUNG | 003 072 186 |
| 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 A22 – Remote Control Product Codes: AUX-MEDIA SERVER

| Manufacturer/Brand | Setup Code Number |
|---|---|
| HARMAN KARDON | 002 |

## Table A23 – Remote Control Product Codes: AUX-Cable/SAT RECORDER (PVR)

| Manufacturer/Brand | Setup Code Number |
|---|---|
| DAEWOO | 701 704 |
| ECHOSTAR | 714 715 716 |
| EXPRESSVU | 714 |
| HUGHES | 717 727 |
| HYUNDAI | 718 |
| KEEN | 709 |
| PANASONIC | 710 723 |
| PHILIPS | 711 717 724 727 |
| PROSCAN | 719 |
| RCA | 719 727 |
| REPLAYTV | 708 710 712 725 726 |
| SONICBLUE | 710 712 |
| SONY | 707 713 720 721 722 723 724 |

## Table A24 – Remote Control Product Codes: AUX- TiVo

| Manufacturer/Brand | Setup Code Number |
|---|---|
| DIRECTV | 806 (See also Table A16) |
| PIONEER | 801 |
| SERIES 2 DVR | 802 809 |
| TOSHIBA | 803 |
| OTHER TiVo | 804 805 807 808 810 |