

USR 1

Universal Remote Control

OWNER'S MANUAL



Introduction

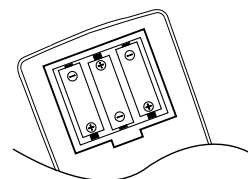
Harman Kardon's USR 1 is a full-featured, eight-device remote control that is specially designed as a replacement for the remote controls used with most Harman Kardon components manufactured since 1995, along with some products produced before 1995. In addition to the codes used for operating Harman Kardon products, the USR 1 may be programmed with the commands for most contemporary home entertainment products, either from the extensive built-in code library, or via a simple "learning" technique, regardless of brand. To further extend the flexibility of the USR 1, it may also be "taught" the codes for most infrared remote controls even when they are not in the built-in library. Discrete controls are available for operating the transport functions of CD, DVD and tape machines, and users may create up to five macro command sets for automating frequently repeated actions.

NOTE: Although every effort has been made to include all features and functions available on the original remotes, in some instances not all functions will be available. In cases where you still have the original, working remote, you may attempt to program individual button codes into the USR 1 using the method described later in this manual.

Installing the Batteries

To install the batteries, first remove the cover on the back side of the remote by placing your thumb on the round indented area on the battery compartment cover. Gently push down and then up away from the remote. The cover will slide off.

Place the three AAA batteries in the compartment as shown in the diagram below, being certain to observe the "+" and "-" polarity indications on the batteries and in the bottom of the compartment.



To replace the cover, place it in the grooved edges of the compartment side. Then, gently slide the cover down towards you until you hear and feel the latch click as indication of a secure closure.

When the remote will not be used for a significant length of time (over a few weeks) it is always a good idea to remove the batteries to prevent the possibility of damage to the remote due to corrosion or leakage.

When replacing batteries, always replace all three at the same time and observe any local regulations that may apply in your area with regard to the proper disposal of used batteries. We recommend the use of high-quality alkaline batteries in the USR 1.

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Programming the Remote

The USR 1 is shipped from the factory already programmed to operate most current-model Harman Kardon AV receivers, processors, CD and DVD players, CD-R/RW decks and cassette decks. However, for older Harman Kardon products, or if you find that the preset codes do not properly operate your Harman Kardon products, or if you wish to use the remote with products made by manufacturers other than Harman Kardon, you may use a variety of methods to program in the code information from the USR 1's built-in IR code library or to directly program the codes from another remote.

Before starting the programming process, please note that throughout these instructions you will see mention of the "Program LED". This refers to the three-color LED that is at the very top of the remote between the ON and OFF buttons. Depending on the specific programming operation underway, this LED may light or flash in green, red or amber. During normal operation it will not light.

Direct Code Entry

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

1. Use the tables in the following pages to determine the three-digit code or codes that match both the product type (e.g., VCR, TV), and the specific brand name. If there is more than one number for a brand, make note of the different choices.
2. Turn on the product you wish to program into the USR 1.
3. Press and hold both the **Device Selector** for the product you wish to control (e.g., VCR, TV) and the **Mute** button at the same time. When the **Program LED** turns amber and begins flashing, release the buttons. It is important that you begin the next step within 20 seconds.
4. Point the USR 1 towards the product to be programmed, and enter the first three-digit code number using the **Numeric Key**

buttons. If the unit turns off, the correct code has been entered. Press the **Device Selector** again, and note that the red light will flash three times before going dark to confirm the entry.

5. If the device to be programmed in does NOT turn off, continue to enter three-digit code numbers until the equipment turns off. At this point, the correct code has been entered. Press the **Device Selector** again and note that the red light under the **Device Selector** will flash three times before going dark to confirm the entry.
6. Try all of the functions on the remote to make certain that the product operates properly. Keep in mind that many manufacturers use a number of different combinations of codes, so it is a good idea to make certain that not only the Power control, but the Volume, Channel and Transport controls work as they should. If functions do not work properly, you may need to use a different remote code, or choose the best remote code and program some individual buttons as explained below in the "Learning Codes" section.
7. If a code cannot be entered to turn the unit off, if the code for your product does not appear in the tables in this manual, or if not all functions operate properly, try programming the remote with the Auto Search Method.

For Harman Kardon products, consult the Harman Kardon Products code table to locate your model. Program the code on the far left after pressing the **Device Selector** shown in the column in which the code is found. For example, if you wish to program an AVR 85, you will need to press the **AVR Device Selector** and then program code 002 into the USR 1 following the instructions shown. The additional codes listed to the right will automatically be programmed into the **CD**, **DVD** and **Tape Device** selectors, respectively.

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You may reprogram those device selectors to operate other products.

Although every effort has been made to program the USR 1 with all of the functions of the original Harman Kardon remotes, some functions may not be available, although individual buttons can be programmed if you have the original working remote.

Auto Search Method

If the unit you wish to program into the USR 1 is not listed in the code tables in this manual or if the code does not seem to operate properly, you may wish to program the correct code using the Auto Search method that follows:

1. Turn on the product that you wish to program into the USR 1.
2. Press the **Device Selector** for the type of product to be entered (e.g., VCR, TV) and the **Mute** button at the same time. Hold both buttons until the red light under the **Device Selector** stays lit. Note that the next step must take place while the red light is on, and it must begin within 20 seconds after the light appears.
3. Point the USR 1 towards the product to be programmed, and press either the **▲** or **▼** button. Each press will send out a series of codes from the remote's built-in database. When the unit being programmed turns off, release the **▲/▼** button, as that is your indication that the correct code is in use.
4. Press the **Device Selector**, and note that the red light under the Device Selector will flash three times before going dark to confirm the entry.
5. Try all of the functions on the remote to make certain that the product operates. Keep in mind that many manufacturers use a number of different combinations of codes, and it is a good idea to make certain that not only the Power control works, but also that the Volume, Channel and Transport

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controls, as appropriate. If all functions do not work properly, you may need to Auto-Search for a different code, or enter a code via the Direct Code Entry method, or choose the best remote code and program some individual buttons as explained below in the “Learning Codes” section.

Code Readout

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

1. Press and hold both the **Device Selector** for the device you wish to find the code for and the **Mute** button at the same time. Note that the **Program LED** will initially turn amber. Release the buttons and begin the next step within 20 seconds.
2. Press the **Set** button. The **Program LED** will then blink green in a sequence that corresponds to the three-digit code, with a one-second pause between each digit. Count the number of blinks between each pause to determine the digit of the code. One blink is the number 1, two blinks is the number 2, and so forth. A series of three rapid flashes is used to indicate a “0.”

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

For future reference, enter the Setup Codes for the equipment in your system here:

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

Learning Codes

In addition to using codes from its internal code library, the USR 1 is able to “learn” codes from remotes that may not be in the code library. You may also use this function to “learn over” the codes from a preprogrammed device to add functions not included in the preprogrammed codes. To learn or transfer codes from an IR remote to the USR 1, follow these steps:

NOTE: Not all buttons on the USR 1 may be taught codes from another remote. Only the following buttons may be programmed for a remote code: Power On, Power Off, Mute, Channel +, Channel –, T/V, Volume Up, Volume Down, CH./Guide, Menu/Spkr, ◀, ▶, ▲, ▼, Set, Digital/Exit, Delay/Prev. Ch., the 0 to 9 “Numeric Keys,” Play, Stop, FF, REW, Record, Pause, Skip Down, Skip Up.

1. Place the front of the original remote with the code being sent so that it is facing the USR 1’s **IR Transmitter Window** “head-to-head.” The two remotes should be between one and three inches apart.
2. Select the button on the remote that you wish to use as the device selector for the codes about to be entered. This may be any of the **Device Selectors**.
3. Press the **Device Selector** button chosen and the **Learn** button at the same time. Hold these buttons until the **Program LED** flashes amber and the light under the **Device Selector** button turns red. Release the buttons.
4. Press the button on the USR 1 that you wish to program. Note that the **Program LED** will stop flashing.

5. Within five seconds, press and hold the button on the original remote that you wish to “teach” into the USR 1. When the **Program LED** turns green three times, release the button. Note that the **Program LED** will then begin to flash amber again.

NOTE: If the **Program LED** turns red during Step 5 or 6, the programming was not successful. Repeat the steps to see whether the code will “take.”

6. Repeat Steps 4 through 6 for each button on the source remote that you wish to transfer to the USR 1.
7. Once all codes have been transferred from the original source remote to the USR 1, press the **Learn** button.
8. Repeat Steps 1 through 7 for any additional remotes you wish to “teach” into the USR 1.

NOTE: Each programmable key may be programmed with a separate function for each of the eight devices the USR 1 is capable of controlling. Note, also, that once a key is programmed for a specific function, any code previously stored for that specific button/device combination will be erased.

Erasing Learned Codes

The USR 1 allows you to remove or erase the code learned into a single button for a single device, to remove or erase the code set for all the codes that have been programmed into specific device buttons, or to erase all commands that have been learned to all devices.

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

1. Press and hold both the **Device Selector** within which the individual button to be erased has been programmed and the **Learn** button.

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2. When the red LED under the **Device Selector** turns red and the **Program LED** flashes amber, release the buttons.
3. Press and release the **Device Selector** again for the device within which the individual button to be erased has been programmed.
4. Press the **7** button three times.
5. Press and release the individual button for which the code is to be erased. The **Program LED** will blink green two times and then return to amber.
6. To erase other buttons within the same device, press them as noted in Step 5.
7. When all buttons to be erased have been pressed, press the **Learn** button to complete the process.

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

1. Press and hold both the **Device Selector** for which you wish to erase the codes and the **Learn** button.
2. When the red LED under the **Device Selector** turns red and the **Program LED** flashes amber, release the buttons.
3. Press and release the **Device Selector** again for the device whose code you wish to erase.
4. Press the **8** button three times.
5. The **Program LED** will turn off and the red light under the **Device Selector** will flash on and off once to indicate that the codes have been erased.

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

1. Simultaneously press any **Device Selector** and the **Learn** button.

2. When the red LED under the **Device Selector** turns red and the **Program LED** flashes amber, release the buttons.
3. Press and release the same **Device Selector** again.
4. Press the **9** button three times.
5. The **Program LED** will turn off and the red light under the **Device Selector** will flash on and off once to indicate that the codes have been erased and the USR 1 has returned to its factory default codes. Macro commands and "Punch-Through" programming will remain active, but may not have the effect you originally intended.

Macro Programming

Macros enable you to easily repeat frequently used combinations of commands with the press of a single button on the USR 1. Once programmed, a macro will send out up to 19 different remote codes in a predetermined sequential order, enabling you to automate the process of turning on your system, changing devices, changing to a favorite channel with one button press, or other common tasks. The USR 1 can store up to five separate macro command sequences: one that is associated with the **Power On** button, and four more that are accessed by pressing the **Macro** buttons.

1. Press the **Mute** button and the **Macro** button to be programmed or the **Power On** button at the same time. Note that a **Device Selector** will light red, and the **Program LED** will flash amber.
2. Enter the steps for the macro sequence by pressing the button for the actual command step. Although the macro may contain up to 19 steps, each button press, including those used to change devices, counts as a step. The **Program LED** will flash green to confirm each button press as you enter commands.

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

3. When all the steps have been entered, press the **Sleep** button to enter the commands. The red light under the **Device Selectors** will blink and then turn off.

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

1. Press the **Macro 1** and **Mute** buttons at the same time and then release them.
2. Note that the **Program LED** will flash amber.
3. Press the **AVR Selector**.
4. Press the **Mute** button to store the AVR's power on command.
5. Press the **VID 2 Device Selector** button to indicate the next command is for "TV Power On."
6. Press the **Mute** button to store the TV Power On command.
7. Press the **VID 3 Device Selector** button to indicate the next command is for "Cable Power On."
8. Press the **Mute** button to store the Cable Power On command.
9. Press the **Sleep/Channel Up** button to complete the process and store the macro sequence.

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

Erasing Macro Commands

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

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

Once the USR 1 has been programmed with the codes for the desired products, it operates in the same manner as traditional remotes.

To change between devices, simply press one of the **Device Selector** buttons at the top of the remote. When one of these buttons is pressed, a red LED underneath the button will momentarily flash to confirm your device selection. The red LED will also light when any button programmed for a function associated with that device is pressed. If the red LED for a device does NOT light when a function button is pressed, it is your indication that the button does not work in conjunction with the device. For example, when the **AVR Device Selector** has been pressed to operate an audio/video receiver, the red light under the **AVR** button will go on when the **Volume Up** button is pressed. However, it will not normally light when the **Stop** button is pressed as this is not an AVR function. How the USR 1 responds to specific commands is greatly dependent on the device in use and the way in which the specific buttons have been programmed.

For use with Harman Kardon products, consult the owner's manual that came with the product to find the functions for specific buttons. If you do not have the manual for a Harman Kardon product, you may be able to download it at no charge from Harman Kardon's Web site, www.harmankardon.com.

When operating a device other than a Harman Kardon product, the controls may not correspond exactly to the functions printed on the remote or button. Some commands, such as the volume control, work normally while other buttons will change their function so that they correspond to a secondary label on the remote. For example, the **Sleep** and **Surround** mode selector buttons also function as the **Channel Up** and **Channel Down** buttons when operating most TV sets, VCRs or cable boxes. The Channel Up/Down indication is printed directly on the remote. For many standard CD players, cassette decks, VCRs

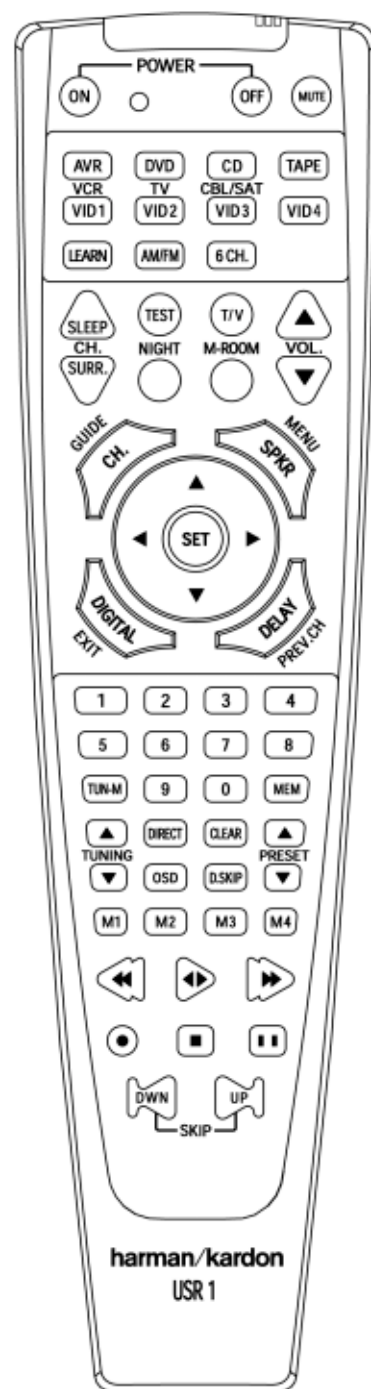
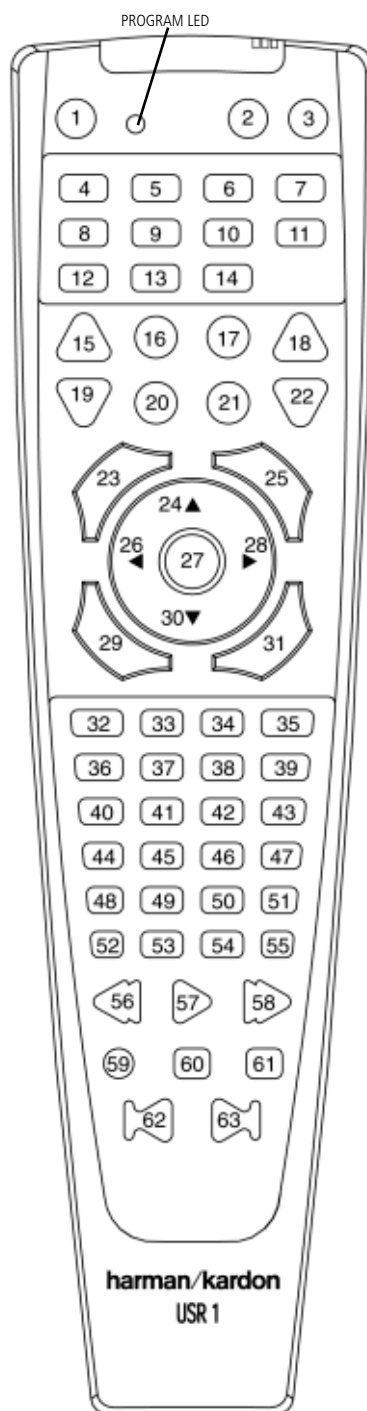
and DVD functions, the standard function icons are printed on top of the buttons.

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

There are two kinds of tables in this manual that show the functions of the USR 1's buttons. One is specific to Harman Kardon products. It identifies the specific function of each button for certain Harman Kardon receivers and systems. For your convenience, the code used to program the USR 1 for each of those products is also shown. The other kind of table contains the generic function list for all other products. For example, the button shown on the diagram as number 49 is labeled as the **OSD** button, and it performs that function on newer Harman Kardon AVR products. However, as shown in the table, that button is the **Surround Wrap** button if you own an AVR 40 and program the USR 1 using code 003. Using the generic Function List, you will see that button 49 also acts as the **OSD** button for most video products.

Notes on Using the USR 1 With Other Devices.

Manufacturers may use different code sets for the same product category. For that reason, it is important that you check to see whether the code set you have entered operates as many controls as possible. If it appears that only a few functions operate, check to see whether another code set will work with more buttons. Once you have selected the best code set, you can program in additional individual buttons, as described above.



Operating Products With the USR 1

Volume Punch-Through

The USR 1 may be programmed to operate the Volume Control and Mute functions of either the TV or an AV receiver or processor in conjunction with any of the devices controlled by the remote. For example, since the receiver or processor will likely be used as the sound system for TV viewing, you may wish to have its volume activated, although the remote is set to run the TV. Either the receiver/processor or TV volume control may be associated with any of the remote's devices. To program the remote for Volume Punch-Through, follow these steps:

1. Press the **Device Selector** for the unit you wish to have associated with the Volume Control and the **Mute** button at the same time until the red light appears under the **Device Selector**, and note that the **Program LED** will flash amber.
2. Press the **Volume Up** button and note that the **Program LED** will stop flashing and stay amber.
3. Press either the **AVR Selector** or the **Device Selector**, depending on which system's Volume Control you wish to have attached for the Punch-Through mode. The **Program LED** will blink green three times and then go out to confirm the data entry.

Example: To have the AVR's volume control activated even though the remote is set to control the TV, first press the **VID2/TV Device Selector** and the **Mute** button at the same time. Next, press the **Volume Up** button, followed by the **AVR Device Selector**.

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

Channel Control Punch-Through

The USR 1 may be programmed to operate so that the Channel Control function for either the TV, cable or satellite receiver used in your system may be used in conjunction with one of the other devices controlled by the remote. For example, while using and controlling the VCR, you may wish to change channels on a cable box or satellite receiver without having to change the device selected by the receiver or the remote. To program the remote for Channel Control Punch-Through, follow these steps:

1. Press the **Device Selector** button for the device with which you wish to have the Channel Control associated and the **Mute** button at the same time until the red light appears under the **Device Selector** and the **Program LED** flashes amber.
2. Press the **Volume Down** button. The **Program LED** will stop flashing and stay amber.
3. Press and release the **Device Selector** button for the device that will be used to change the channels. The **Program LED** will blink green three times and then go out to confirm the data entry.

Example: To control the channels using your cable box or satellite receiver while the USR 1 is set to control the VCR, first press the **VID1/VCR Device Selector** button and the **Mute** button at the same time. Next, release them and press the **Volume Down** button, followed by the **VID2/TV Device Selector** button.

NOTE: To remove the Channel Control Punch-Through and return the remote to its original configuration, repeat the steps shown in the example above. However, press the same **Device Selector** in Steps 1 and 3.

Transport Control Punch-Through

The USR 1 may be programmed to operate so that the Transport Control Functions (Play, Stop, Fast Forward, Rewind, Pause and Record) for a VCR, DVD or CD will operate in conjunction with one of the other devices controlled by the remote. For example, while using and controlling the TV, you may wish to start or stop your VCR or DVD without having to change the device selected. To program the remote for Transport Control Punch-Through, follow these steps:

1. Press the **Device Selector** for the device with which you wish to have the Channel Control associated and the **Mute** button at the same time until the red light appears under the **Device Selector** and the **Program LED** flashes amber.
2. Press the **Play** button. The **Program LED** will stop flashing and stay amber.
3. Press and release the **Device Selector** button for the product whose transport mechanism will be controlled. The **Program LED** will blink green three times and then go out to confirm the data entry.

Example: To control the transport of a DVD player while the remote is set to control the TV, first press the **VID2/TV Device Selector** button and the **Mute** button at the same time. Next, release them and press the **Play** button, followed by the **DVD Device Selector** button.

NOTE: To remove the Transport Control Punch-Through and return the remote to its original configuration, repeat the steps shown in the example above. However, press the same **Device Selector** in Steps 1 and 3.

NOTE: Before programming the remote for Volume, Channel or Transport Punch-Through, make certain that you have finished programming the remote codes needed for the specific TV, CD, DVD, cable or satellite receiver.

Reassigning Device Control Selectors

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

- 1. Press the **Device Selector** you wish to reassign and the **Mute** button at the same time until the red light appears under the **Device Selector** and the **Program LED** flashes amber.
- 2. Press the **Device Selector** for the device you wish to program into the reassigned button.
- 3. Program the remote with the code for your product using either the Direct Code Entry or Auto Search method of determining the correct code.
- 4. Press the same **Device Selector** pressed in Step 1 once again to store the selection. The red LED under the reassigned **Device Selector** will flash three times and then go out.

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

Resetting the Remote Memory

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

- 1. Press any of the **Device Selector** buttons and the “**O**” button at the same time until the **Program LED** begins to flash amber.
- 2. Press the “**3**” button three times.
- 3. The red LED under the **Device Selector** will go out and the **Program LED** will stop flashing and turn green.
- 4. The **Program LED** will remain green until the remote is reset. Note that this may take a while, depending on how many commands are in the memory and need to be erased.
- 5. When the **Program LED** goes out, the remote has been reset to the factory settings.

Couch Function

Occasionally, a remote control will get lost between the cushions of a couch, placed upside down, or otherwise stored so that the buttons are pressed. If the unit were to stay this way for an extended period, the batteries would drain until they are exhausted. To prevent this, the USR 1 has a “Couch Function” that recognizes when a button is held down for more than 30 seconds. In that case, an LED will begin to blink red under the last **Device Selector** button that was used. The LED will blink for 30 seconds to draw your attention to the stuck button or incorrect positioning of the remote. When the LED stops blinking and goes out, the remote will stop transmitting any codes until the stuck button is released or the unit is picked up so that no buttons are pressed. This preserves battery life and extends the life of the remote.

Troubleshooting Guide

Symptom	Cause	Solution
Product does not respond to remote commands.	Weak batteries in remote.	Replace remote batteries.
	Wrong device selected.	Press the Device Selector corresponding to the product you wish to control.
	Remote sensor is obscured.	Make certain the product’s front panel sensor is visible to the USR 1, or connect an outboard IR sensor to the product’s remote IR input jack (if available).

Function List

NO.	BUTTON NAME	AVR/AUDIO (CODE 001)	CD/CDR	TAPE	DVD (CODE 001)
1	POWER ON	POWER ON	POWER ON		POWER ON
2	POWER OFF	POWER OFF	POWER OFF		POWER OFF
3	MUTE	MUTE	MUTE		MUTE
4	AVR	AVR POWER ON	AVR	AVR	AVR
5	DVD	DEVICE SEL	DVD	DVD	DVD
6	CD	DEVICE SEL	CD	CD	CD
7	TAPE	DEVICE SEL	TAPE	TAPE	TAPE
8	VID1 (VCR)	VID1	VID1 (VCR)	VID1 (VCR)	VID1 (VCR)
9	VID2 (TV)	VID2	VID2 (TV)	VID2 (TV)	VID2 (TV)
10	VID3 (CBL/SAT)	VID3	VID3 (CBL/SAT)	VID3 (CBL/SAT)	VID3 (CBL/SAT)
11	VID4	VID4	VID4	VID4	VID4
12	LEARN	LEARN	LEARN	LEARN	LEARN
13	AM/FM	AM/FM	AM/FM	AM/FM	AM/FM
14	6CH	6CH	6CH	6CH	6CH
15	SLEEP/CH+	SLEEP			
16	TEST TONE	TEST TONE	INPUT SELECT		
17	TV/VCR		CDP SELECT		TV/DVD
18	VOL UP	VOL UP	VOL UP		VOL UP
19	SURR/CH-	SURR	CDR SELECT		
20	NIGHT	NIGHT			SUBTITLE ON/OFF
21	MULTI-ROOM	MULTI-ROOM			SUB ON/OFF
22	VOL DOWN	VOL DOWN	VOL DOWN		VOL DOWN
23	CH./GUIDE	CHANNEL (LEVEL)			TITLE
24	LEVEL+/UP	LEVEL+/UP			UP
25	SPEAKER/MENU	SPEAKER	INTRO SCAN		MENU
26	LEFT <	<			LEFT
27	SET	SET			ENTER
28	RIGHT >	>			RIGHT
29	DIGITAL/EXIT	DIGITAL			OPEN/CLOSE
30	LEVEL-/DOWN	LEVEL-/DOWN			DOWN
31	DELAY/PREV. CH	DELAY	OPEN/CLOSE		RETURN
32~39, 41~42	0~9	0~9	0~9		0~9
40	TUN-M	TUN-M	REPEAT		CHAPTER
43	MEMORY	MEMORY	TIME		AUDIO
44	TUNING UP	TUNING UP	TRACK DIRECT		NEXT. CHAP
45	DIRECT	DIRECT	RANDOM PLAY		ANGLE
46	CLEAR	CLEAR	CLEAR		CLEAR
47	PRESET UP	PRESET UP	+10		SLOW+
48	TUNING DOWN	TUNING DOWN	TRACK INCREMENT		PREV. CHAP
49	OSD	OSD	PROGRAM		
50	D. SKIP	D. SKIP	DISK SKIP		DISC SKIP
51	PRESET DOWN	PRESET DOWN			SLOW -
52~55	MACRO	M1~M4	M1~M4	M1~M4	M1~M4
56	◀◀	REWIND	R. SEARCH	REW	REW
57	PLAY (◀▶)		PLAY	REV PLAY/FWD PLAY	PLAY
58	▶▶		F. SEARCH	FF	FF
59	RECORD		RECORD	REC/PAUSE	
60	STOP		STOP	STOP	STOP
61	PAUSE		PAUSE		PAUSE
62	SKIP DOWN		SKIP -		SKIP -
63	SKIP UP		SKIP +		SKIP +

Function List

NO.	BUTTON NAME	TV	VCR	CBL	SAT
1	POWER ON	POWER ON	POWER ON	POWER ON	POWER ON
2	POWER OFF	POWER OFF	POWER OFF	POWER OFF	POWER OFF
3	MUTE	MUTE	MUTE	MUTE	MUTE
4	AVR	AVR	AVR	AVR	AVR
5	DVD	DVD	DVD	DVD	DVD
6	CD	CD	CD	CD	CD
7	TAPE	TAPE	TAPE	TAPE	TAPE
8	VID1 (VCR)	VID1 (VCR)	VID1 (VCR)	VID1 (VCR)	VID1 (VCR)
9	VID2 (TV)	VID2 (TV)	VID2 (TV)	VID2 (TV)	VID2 (TV)
10	VID3 (CBL/SAT)	VID3 (CBL/SAT)	VID3 (CBL/SAT)	VID3 (CBL/SAT)	VID3 (CBL/SAT)
11	VID4	VID4	VID4	VID4	VID4
12	LEARN	LEARN	LEARN	LEARN	LEARN
13	AM/FM	AM/FM	AM/FM	AM/FM	AM/FM
14	6CH	6CH	6CH	6CH	6CH
15	SLEEP/CH+	CH +	CH +	CH +	CH +
16	TEST TONE				
17	TV/VCR	TV/VCR	TV/VCR	TV/CBL	TV/SAT
18	VOL UP	VOL UP	VOL UP	VOL UP	VOL UP
19	SURR/CH-	CH -	CH -	CH -	CH -
20	NIGHT				
21	MULTI-ROOM				
22	VOL DOWN	VOL DOWN	VOL DOWN	VOL DOWN	VOL DOWN
23	CH./GUIDE			INFO	INFO
24	LEVEL+/UP	UP	UP	UP	UP
25	SPEAKER/MENU	MENU	MENU	MENU	MENU
26	LEFT <	LEFT	LEFT	LEFT	LEFT
27	SET	ENTER	ENTER	ENTER	ENTER
28	RIGHT >	RIGHT	RIGHT	RIGHT	RIGHT
29	DIGITAL/EXIT				
30	LEVEL-/DOWN	DOWN	DOWN	DOWN	DOWN
31	DELAY/PREV. CH	PREV. CH		PREV. CH	PREV. CH
32~39, 41~42	0~9	0~9	0~9	0~9	0~9
40	TUN-M				
43	MEMORY				
44	TUNING UP	SLEEP	CANCEL	PPV	CANCEL
45	DIRECT			FAV	FAV
46	CLEAR		CLEAR	BYPASS	NEXT
47	PRESET UP			MUSIC	ALT
48	TUNING DOWN				
49	OSD	OSD	OSD	OSD	OSD
50	D. SKIP				
51	PRESET DOWN				
52~55	MACRO	M1~M4	M1~M4	M1~M4	M1~M4
56	◀◀		REW	DAY -	
57	PLAY (◀▶)		PLAY		
58	▶▶		FF	DAY +	
59	RECORD		REC		
60	STOP		STOP		
61	PAUSE		PAUSE		
62	SKIP DOWN		SCAN -	PAGE -	
63	SKIP UP		SCAN +	PAGE +	

Function List – Harman Kardon

NO.	BUTTON NAME	AVR 85 (CODE 002)
1	POWER ON	MAIN POWER ON
2	POWER OFF	MAIN POWER OFF
3	MUTE	MUTE
4	AVR	AVR
5	DVD	DVD
6	CD	CD
7	TAPE	TAPE1
8	VID1 (VCR)	VID1
9	VID2 (TV)	VID2
10	VID3 (CBL/SAT)	VID3
11	VID4	
12	LEARN	
13	AM/FM	AM/FM
14	6CH	AC-3
15	SLEEP/CH+	SLEEP
16	TEST TONE	TEST TONE
17	TV/VCR	
18	VOL UP	VOLUME +
19	SURR/CH-	OPT
20	NIGHT	NIGHT
21	MULTI-ROOM	MULTI
22	VOL DOWN	VOLUME -
23	CH./GUIDE	CH SELECT
24	LEVEL+/UP	UP
25	SPEAKER/MENU	HALL
26	LEFT <	LEFT
27	SET	SELECT
28	RIGHT >	RIGHT
29	DIGITAL/EXIT	REPLAY/FM MODE
30	LEVEL-/DOWN	DOWN
31	DELAY/PREV. CH	DELAY
32	1	1/ABC
33	2	2/DEF
34	3	3/GHI
35	4	4/JKL
36	5	5/MNO
37	6	6/PQR
38	7	7/STU
39	8	8/VWX
40	TUN-M	MOVIE
41	9	9/YZ
42	0	0/CLEAR
43	MEMORY	STEREO
44	TUNING UP	TUNE/SEARCH +
45	DIRECT	DISPLAY
46	CLEAR	*/MEMO
47	PRESET UP	PRESET DISC +
48	TUNING DOWN	TUNE/SEARCH -
49	OSD	OSD
50	D. SKIP	#/P-SCAN
51	PRESET DOWN	PRESET DISC -
52	M1	
53	M2	
54	M3	
55	M4	
56	◀◀	DOLBY P/L
57	PLAY (◀▶)	PLAY/AF
58	▶▶	DOLBY 3 ST
59	RECORD	MATRIX
60	STOP	STOP/RDS DISP.
61	PAUSE	REC/PAUSE /PTY
62	SKIP DOWN	SKIP -
63	SKIP UP	SKIP +

Function List – Harman Kardon Products

NO.	BUTTON NAME	AVR 40RC (CODE 003)	AVR 500 (CODE 004)	AVR 75 (CODE 005)	AVR 30 H.T. CONTROLLER (CODE 006)
1	POWER ON	POWER	POWER	MAIN POWER ON	POWER
2	POWER OFF	POWER	POWER	MAIN POWER OFF	POWER
3	MUTE	MUTE	MUTE	MUTE	MUTE
4	AVR	POWER	AVR	AVR	AVR
5	DVD		DVD	DVD	
6	CD	CD	CD	CD	
7	TAPE	TAPE1	TAPE	TAPE 1	
8	VID1 (VCR)	VIDEO1	VID1	VID1	
9	VID2 (TV)	VIDEO2	VID2	VID2	
10	VID3 (CBL/SAT)	VIDEO3	D-SKIP/VID3	VID3	
11	VID4				
12	LEARN				
13	AM/FM	AM/FM	AM/FM	AM/FM	
14	6CH		6 CH.	AC-3	
15	SLEEP/CH+	SLEEP	CH +/SLEEP	SLEEP	CH +
16	TEST TONE		TEST	TEST TONE	
17	TV/VCR				
18	VOL UP	SELECT +	VOL +	VOLUME +	VOL UP
19	SURR/CH-	SURROUND	CH - /SURR.	OPT	CH -
20	NIGHT		NIGHT/REC/PAUSE	NIGHT	
21	MULTI-ROOM		MULTI-ROOM /STOP	MULTI	
22	VOL DOWN	SELECT -	VOL -	VOLUME -	VOL DOWN
23	CH./GUIDE		GUIDE/CH.	CH SELECT	
24	LEVEL+/UP	LEVEL +	UP	UP	UP/ON SCREEN
25	SPEAKER/MENU	CALIBRATE	MENU/SPKR	HALL	
26	LEFT <	SPKRS_L	LEFT	LEFT	LEFT
27	SET		SET	SELECT	ENTER
28	RIGHT >	SPKRS_R	RIGHT	RIGHT	RIGHT
29	DIGITAL/EXIT	CENTER BOOST	EXIT/DIGITAL	REPLAY/FM MODE	
30	LEVEL-/DOWN	LEVEL -	DOWN	DOWN	DOWN
31	DELAY/PREV. CH		PREV.CH./DELAY	DELAY	
32	1		1	1/ABC	1
33	2		2	2/DEF	2
34	3		3	3/GHI	3
35	4		4	4/JKL	4
36	5		5	5/MNO	5
37	6		6	6/PQR	6
38	7		7	7/STU	7
39	8		8	8/VWX	8
40	TUN-M		DIRECT	MOVIE	
41	9		9	9/YZ	9
42	0		0	0/CLEAR	0
43	MEMORY		CLEAR	STEREO	SHIFT
44	TUNING UP	SEARCH +	TUNING UP	TUNE/SEARCH +	R_LEV UP
45	DIRECT	DISPLAY	TUN-M	DISPLAY	
46	CLEAR	SURROUND WRAP +	MEMORY	*/MEMO	
47	PRESET UP	PRESET/DISC SKIP +	PRESET UP	PRESET DISC +	
48	TUNING DOWN	SEARCH -	TUNING DOWN	TUNE/SEARCH -	R_LEV DOWN
49	OSD	SURROUND WRAP -	OSD	OSD	
50	D. SKIP	SCAN		#/P-SCAN	
51	PRESET DOWN	PRESET/DISC SKIP -	PRESET DOWN	PRESET DISC -	
52	M1				
53	M2				
54	M3				
55	M4				
56	◀◀			DOLBY P/L	
57	PLAY (◀▶)			PLAY/AF	
58	▶▶			DOLBY 3 ST	
59	RECORD			MATRIX	
60	STOP			STOP/RDS DISP.	
61	PAUSE			REC/PAUSE/PTY	
62	SKIP DOWN	SKIP -		SKIP -	
63	SKIP UP	SKIP +		SKIP +	

Function List – Harman Kardon Products

NO.	BUTTON NAME	FESTIVAL 500 (CODE 007)	FESTIVAL 60 (CODE 008)	FESTIVAL 80 (CODE 009)	AVR 10 (CODE 010)
1	POWER ON	POWER	POWER	POWER	STANDBY
2	POWER OFF	POWER	POWER	POWER	STANDBY
3	MUTE		MUTE	MUTE	MUTE
4	AVR	AVR	AVR	AVR	AVR
5	DVD				
6	CD	CD	CD	CD	CD
7	TAPE	TAPE			TAPE MON
8	VID1 (VCR)				VCR1
9	VID2 (TV)	TV			VCR2
10	VID3 (CBL/SAT)				
11	VID4				
12	LEARN				
13	AM/FM	TUNER	TUNER	TUNER	TUNER
14	6CH				
15	SLEEP/CH+		SLEEP	SLEEP	SLEEP
16	TEST TONE				TEST
17	TV/VCR				
18	VOL UP	VOLUME +	VOL +	VOL +	MASTER VOLUME +
19	SURR/CH-			SURROUND	3 STEREO
20	NIGHT			SURROUND CENTER	PRO LOGIC
21	MULTI-ROOM				
22	VOL DOWN	VOLUME -	VOL -	VOL -	MASTER VOLUME -
23	CH./GUIDE				
24	LEVEL+/UP		SELECT +	UP	CENTER LEVEL +
25	SPEAKER/MENU				CENT MODE
26	LEFT <				REAR LEVEL -
27	SET				
28	RIGHT >				REAR LEVEL +
29	DIGITAL/EXIT				
30	LEVEL-/DOWN		SELECT -	DOWN	CENTER LEVEL -
31	DELAY/PREV. CH				DELAY
32	1				1
33	2				2
34	3				3
35	4				4
36	5				5
37	6				6
38	7				7
39	8				8
40	TUN-M				
41	9				9
42	0				0
43	MEMORY				
44	TUNING UP				TUNING +
45	DIRECT				DISPLAY
46	CLEAR				
47	PRESET UP			SKIP +	SEARCH +
48	TUNING DOWN				TUNING -
49	OSD				
50	D. SKIP				P SCAN
51	PRESET DOWN		SKIP -		SEARCH -
52	M1				
53	M2				
54	M3				
55	M4				
56	◀◀				
57	PLAY (◀▶)				
58	▶▶				
59	RECORD				
60	STOP				
61	PAUSE				
62	SKIP DOWN				
63	SKIP UP				

Function List – Harman Kardon Products

NO.	BUTTON NAME	AVR 2011 (CODE 011)	AVR30 (CODE 012)	HK 3250 (CODE 013)	HK 3400 (CODE 014)
1	POWER ON	POWER	POWER	STANDBY	POWER ON
2	POWER OFF	POWER	POWER	STANDBY	POWER OFF
3	MUTE	MUTE	MUTE	MUTE	
4	AVR	AVR	AVR	AVR	AVR
5	DVD		AM		
6	CD	CD	CD	CD	CD
7	TAPE	TAPE1	TAPE1	TAPE MON	TAPE1
8	VID1 (VCR)	VID1	VCR1	VCR1	VIDEO
9	VID2 (TV)	VID2	VCR2	VCR2	
10	VID3 (CBL/SAT)		SAT		
11	VID4				
12	LEARN				
13	AM/FM	TUNER	TUNER	TUNER	FM/AM
14	6CH	PHONO	FM		TUNER
15	SLEEP/CH+	SLEEP	THEATER	SLEEP	
16	TEST TONE	TEST	TEST		
17	TV/VCR				
18	VOL UP	MASTER VOLUME +	VOLUME +	VOL +	VOLUME +
19	SURR/CH-	3 STEREO	SIM. SURR		
20	NIGHT	PRO LOGIC	PRO LOGIC		
21	MULTI-ROOM		HALL		
22	VOL DOWN	MASTER VOLUME -	VOLUME -	VOL -	VOLUME -
23	CH./GUIDE		CLUB		
24	LEVEL+/UP	CENTER LEVEL +	UP		
25	SPEAKER/MENU	CENT MODE	CENTER		SEEK-ST
26	LEFT <	REAR LEVEL -	LEFT		
27	SET		ENTER		
28	RIGHT >	REAR LEVEL +	RIGHT		
29	DIGITAL/EXIT		STADIUM		
30	LEVEL-/DOWN	CENTER LEVEL -	DOWN		
31	DELAY/PREV. CH	DELAY	DELAY		
32	1	1	1	1	1
33	2	2	2	2	2
34	3	3	3	3	3
35	4	4	4	4	4
36	5	5	5	5	5
37	6	6	6	6	6
38	7	7	7	7	7
39	8	8	8	8	8
40	TUN-M		MOVIE		
41	9	9	VDP	9	9
42	0	0	VCP	0	0
43	MEMORY		PHONO		
44	TUNING UP	TUNING +	TUNE +	TUNING +	TUNING +
45	DIRECT	DISPLAY	DIRECT	DISPLAY	
46	CLEAR		SHIFT		
47	PRESET UP	SEARCH +	EFFECTS +		
48	TUNING DOWN	TUNING -	TUNE -	TUNING -	TUNING -
49	OSD				
50	D. SKIP	P SCAN	SEEK	P SCAN	P. SCAN
51	PRESET DOWN	SEARCH -	EFFECTS -		
52	M1				
53	M2				
54	M3				
55	M4				
56	◀◀				
57	PLAY (◀▶)				
58	▶▶				
59	RECORD				
60	STOP				
61	PAUSE				
62	SKIP DOWN				
63	SKIP UP				

Function List – Harman Kardon Products

NO.	BUTTON NAME	AVR 80H (CODE 015)	SIGNATURE 2.0 (CODE 016)	AVR 70H (CODE 017)	AVP 1A (CODE 019)
1	POWER ON	SOURCE POWER ON	POWER ON	SOURCE POWER ON	POWER
2	POWER OFF	SOURCE POWER OFF	POWER OFF	SOURCE POWER OFF	POWER
3	MUTE	MUTE	MUTE	MUTE	MUTE
4	AVR	AUX	SIGNATURE	AUX	
5	DVD		DVD/TV		VDP
6	CD	CD	CD	CD	S-VIDEO 2
7	TAPE	TAPE1	TAPE	TAPE1	S-VIDEO 1
8	VID1 (VCR)	VID1	VID1 (VCR)	VID1	VCR
9	VID2 (TV)	VID2	VID2 (TV)	VID2	AUX 1
10	VID3 (CBL/SAT)		VID3 (CBL/SAT)		AUX 2
11	VID4		SIMUL		
12	LEARN				
13	AM/FM	AM/FM	TUNER	AM/FM	
14	6CH	6CH	AUX		
15	SLEEP/CH+	CH/SKIP +		CH/SKIP +	
16	TEST TONE		BALANCE		SIBILANT FILTER
17	TV/VCR				
18	VOL UP	VOLUME +	VOL UP	VOLUME +	MASTER LEVEL UP
19	SURR/CH-	CH/SKIP -	SURR	CH/SKIP -	
20	NIGHT	3ST		3ST	
21	MULTI-ROOM	STEREO	STEREO	STEREO	
22	VOL DOWN	VOLUME -	VOL DOWN	VOLUME -	MASTER LEVEL DOWN
23	CH./GUIDE	MOVIE	MOVIES	MOVIE	CENTER ON
24	LEVEL+/UP	UP	UP	UP	BACK
25	SPEAKER/MENU	SPEAKER	MENU	SPEAKER	CENTER BOOST
26	LEFT <	LEFT	LEFT	LEFT	PAN DOWN
27	SET	SELECT	ENTER	SELECT	REF
28	RIGHT >	RIGHT	RIGHT	RIGHT	PAN UP
29	DIGITAL/EXIT	MATRIX	DISPLAY	MATRIX	HI-FREQ EQ
30	LEVEL-/DOWN	DOWN	DOWN	DOWN	LEVEL
31	DELAY/PREV. CH	DELAY	MUSIC	DELAY	CENTER
32	1	1/ABC	1	1/ABC	ROCK
33	2	2/DEF	2	2/DEF	POPULAR
34	3	3/GHI	3	3/GHI	JAZZ
35	4	4/JKL	4	4/JKL	CHAMBER
36	5	5/MNO	5	5/MNO	ORCH
37	6	6/PQR	6	6/PQR	MOVIE 70MM WIDE
38	7	7/STU	7	7/STU	MOVIE 70MM
39	8	8/VWX	8	8/VWX	THX
40	TUN-M	SCREEN	MONO +	SCREEN	
41	9	9/YZ	9	9/YZ	PRO LOGIC
42	0	0/CLEAR	0	0/CLEAR	MONO ENHANCE
43	MEMORY	THX	STORE		
44	TUNING UP	MAIN OFF	CENTER	MAIN OFF	DELAY UP
45	DIRECT	MONO	TYPE		BY PASS
46	CLEAR	*/MEMO	PRESETS	*/MEMO	
47	PRESET UP	P/L	SUB	P/L	
48	TUNING DOWN	MAIN ON	TREBLE	MAIN ON	DELAY DOWN
49	OSD	DISPLAY	RDS	DISPLAY	
50	D. SKIP	#/P-SCAN	DISC/TRACK	#/P-SCAN	
51	PRESET DOWN		BASS		
52	M1				
53	M2				
54	M3				
55	M4				
56	◀◀	SEARCH -	SEARCH -	SEARCH -	
57	PLAY (◀▶▶)				
58	▶▶	SEARCH +	SEARCH +	SEARCH +	
59	RECORD				
60	STOP				
61	PAUSE				
62	SKIP DOWN	ADJUST -	SKIP DOWN	ADJUST -	
63	SKIP UP	ADJUST +	SKIP UP	ADJUST +	

Setup Code Table: Harman Kardon Products

MODEL	AVR/AUDIO CODE	CD CODE	DVD CODE	TAPE CODE
AVR 110, AVR 210, AVR 310, AVR 510, AVR 7000	001	001	001	001
AVR 55, AVR 85	002	226	066	002
AVR 40	003	227		003
AVR 5, AVR 35, AVR 45, AVR 65, AVR 100, AVR 300, AVR 500	004	228	067	004
AVR 75	005	229	068	006
AVR 30 HOME THEATER CONTROLLER	006	234		005
FESTIVAL 300, FESTIVAL 500	007	230		007
FESTIVAL 60	008	231		
FESTIVAL 80	009	232		
AVR 10	010	233		008
AVR 20, AVR 20MKII, AVR 25, AVR 25MKII, AVI 200, AVI 200MKII, PT 2500, TU 930	011	235		009
AVR 30 SYSTEM REMOTE, AVR 15, HK 3600, PT2300, TU 9600	012			010
HK 3250, HK 3270, HK 3370, HK 3470	013	236		011
HK 3400, HK 3500, HK 3350, HK 3450, HK 3550	014	237		012
AVR 80, AVR 80MKII	015	238		013
SIGNATURE 2.0	016	239		014
AVR 70, AVR 70MKII	017	240		015
AVP 1A, AVP 1, AVP 2, AVP 2A	019			
HD 710, HD 720, HD 7125, HD 7225, HD 7325		221		
FL 8300		222		
FL 8400, FL 8450		223		
FL 8350, FL 8550, FL 8370, FL 8380		001		
HK 400, HK 800		224		
TL 8500, TL 8600		225		
HD 7600		054		
DC 520				001
TD 420*				009
DC 5300*, DC 5500, DC 5700, TD 4200*, TD 4400*, TD 4500, TD 4600, TD 4800				010
DVD 5			067	
DVD 50			001	
CDR 2, CDR 20, CDR 30		001		

* THESE TAPE DECKS ARE REMOTE-CONTROLLABLE ONLY WHEN CONNECTED TO ANOTHER HARMAN KARDON PRODUCT USING THE REAR-PANEL REMOTE INPUT JACK.

Setup Code Table: TV

MANUFACTURER/BRAND	SETUP CODE NUMBER
A MARK	103 132
ADMIRAL	192
AKAI	001 160
AMPRO	070 164
AMSTRAD	053
ANAM	045 055 057 076 095 099 103 106 109 112 122
AOC	001 011 103
BLAUPUNKT	084
BROKSONIC	205 206
CANDLE	001 002 003 011
CAPEHART	059
CENTURION	170 171
CENTRONIC	045
CITIZEN	001 002 003 011 045 092 094 132
CLASSIC	045
CONCERTO	011
CONTEC	041 045 051 052
CORANDO	172
CORONADO	132
CRAIG	045 055 157 158 159
CROWN	045 132
CURTIS MATHES	001 092 107 132
CXC	045
DAEWOO	011 022 023 038 045 046 056 068 073 094 098 102 105 108 111 114 116 118 119 127 132
DAYTRON	107 132
DIGI LINK	200
DYNASTY	045
DYNATECH	063
ELECTROHOME	074 132
EMERSON	001 012 033 045 048 049 051 052 091 107 132 137 139 141 157 158 162 205
FISHER	013 058
FUNAI	033 045
FUTURETECH	045
GE	001 014 015 038 057 070 071 107 121 133 141 145 163 199
GOLDSTAR	011 093 097 101 103 104 107 110 113 118 128 132
GRUNDIG	193
HALL MARK	107
HARMAN KARDON	201
HITACHI	001 011 015 016 017 018 029 043 072 132 144 147
INFINITY	148
INKEL	120
JBL	148
JC PENNEY	001 011 014 015 030 035 092 132 145
JENSEN	019
JVC	038 040 079 134
KAWASHO	173
KEC	045
KENWOOD	001 204
KLOSS	002 060
KMC	132
KTV	001 045 132 162
LLOYTRON	172 173
LODGENET	069
LOGIK	069
LUXMAN	011
LXI	013 021 053 077 145 148
MAGNAVOX	001 003 011 060 061 062 064 065 118 132 145 148
MARANTZ	001 074 148
MATSUI	148
MEMOREX	013 069 107
METZ	084
MGA	001 011 033 044 050 074 107

Setup Code Table: TV (continued)

MANUFACTURER/BRAND	SETUP CODE NUMBER
MIDLAND	199
MINERVA	084
mitsubishi	001 011 030 033 042 044 100 107 115 154 160 167 168
MTC	175 176
NAD	021 031
NATIONAL	177 178 179 180 181 182
NEC	001 013 022 025 030 042 057 121 123 125
NIKEI	045
ONKING	045
ONWA	045
OPTONICA	025 077
ORION	207 208 209 210 211
PANASONIC	038 057 076 087 148 169
PENNEY	199
PHILCO	001 003 011 030 045 057 060 061 064 065 118 132 148
PHILIPS	001 003 011 040 060 067 088 132 145 148
PIONEER	001 024 029 031 032 107 213 214
PORTLAND	011 132
PROSCAN	133
PROTON	059 107 122 132 165
QUASAR	038 057 087
RADIO SHACK	025 045 048 107 118 132 195 196 197 198
RCA	001 011 029 030 057 071 133 145 161 163 199
REALISTIC	013 025 045 048 195 196 197
RUNCO	152 153
SAA	183
SAMPO	001 059 107
SAMSUNG	051 085 092 096 104 107 118 124 128 132 145
SANYO	013 026 027 037 041 054 058 078
SCOTT	033 045 049 107 132
SEARS	011 013 021 033 035 058 078 092 107 132 145
SHARP	011 020 025 028 033 034 077 132 154
SIEMENS	084
SIGNATURE	069
SONY	043 067 075 117 130 136 194 212
SOUNDESIGN	003 033 045 107
SPECTRICON	103
SSS	011 045
SUPREMACY	002
SYLVANIA	001 003 011 060 061 064 065 107 118 131 145 148
SYMPHONIC	184
TANDY	077
TATUNG	057 063
TECHNICS	080
TECHWOOD	011
TEKNIKA	001 002 003 011 030 033 036 045 069 074 092 094 132
TELEFUNKEN	039 047 083
TELERENT	069
TERA	156
THOMSON	190 191
TMK	011 107
TOSHIBA	013 021 035 042 052 063 092 129 202
TOTEVISION	132
UNIVERSAL	014 015
VIDEO CONCEPTS	160
VIDTECH	011 107
WARDS	011 014 015 025 033 061 062 064 065 069 071 107 132 148
YAMAHA	001 011
YORK	107
YUPITERU	045
ZENITH	069 070 090 094
ZONDA	103

Setup Code Table: VCR

MANUFACTURER/BRAND	SETUP CODE NUMBER
AIWA	040
AKAI	022 048 050 108 109 126
AMPRO	076
AMSTRAD	133
ANAM	037 039 089
ASA	134
AUDIO DYNAMICS	018 029 044 048
BROKSONIC	041 043 110 147 166
CANDLE	134 135 137
CANON	034 037 039 135 140
CAPEHART	094
CITIZEN	134
CRAIG	003 045 116
CURTIS MATHES	037 039
DAEWOO	012 014 017 068 069 094 096 097 098 102 103 104
DAYTRON	094
DBX	018 029 044 048
DUAL	136
DYNATECH	040 057
ELECTROHOME	063
EMERSON	013 023 031 033 035 037 040 041 042 043 050 087 110 112 119
FERGUSON	136
FINLUX	133
FISHER	003 015 016 017
FUNAI	040 133
GE	037 039 067 076 093 095 124 127
GO VIDEO	113 117
GOLDSTAR	018 019 026 087 092 100 107
GRAETZ	136
HARMAN KARDON	018 049
HITACHI	011 040 048 067 118 130
INSTANT REPLAY	037 039
ITT	136
JCL	037 039
JC PENNEY	018 019 021 039 045 070 087
JENSEN	048
JVC	018 037 039 048 052 054 059 064 111 130 132
KENWOOD	020 044 048 052
LLOYD	040
LXI	019 020 040 087
MAGIN	045
MAGNAVOX	037 039 040 071 072
MARANTZ	018 037 039 071 073
MARTA	087
MATSUI	033 036
MEI	037 039
MEMOREX	003 017 020 037 039 040 057 076 087 115 120
MGA	049 050 063
MINOLTA	019 026
mitsubishi	019 026 049 050 053 055 063 065 131 145 146
MTC	133
MULTITECH	030 040
NAD	139
NATIONAL	140
NEC	018 029 044 048 052
NORDMENDE	048
OPTIMUS	159
OPTONICA	057 058
ORION	147 166
PANASONIC	070 074 078 086 114 125 150 167 172
PENTAX	019 026 037 039 067
PHILCO	037 039 040 071

Setup Code Table: VCR (continued)

MANUFACTURER/BRAND	SETUP CODE NUMBER
PHILIPS	037 039 040 058 071 075 087
PILOT	087
PIONEER	019 027 052
PORTLAND	094
PULSAR	076
QUARTZ	001 020
QUASAR	039 070 079 125 144
RADIO SHACK	133 134 137 140 141 142 152 158 159 160 161
RCA	019 026 039 066 067 093 095 124 125 127 157 172
REALISTIC	003 015 017 020 037 039 040 045 057 058 087 137 152 159 160
RICO	062
RUNCO	128
SABA	136
SAISHO	143
SALORA	020
SAMSUNG	038 045 088 090 091 093 095 098 099 101 105 106 109
SANSUI	028 048 052 116 147 166
SANYO	003 014 017 020 115
SCHAUB LORENZ	136
SCOTT	023 043 098 110 112
SEARS	003 015 016 017 019 020 026 037 047 077 084 087
SHARP	037 058 129 156
SHINTOM	030
SONY	002 003 016 037 056 060 061 062 080 081 082 129
SOUNDESIGN	040
STS	019
SYLVANIA	037 039 040 063 071
SYMPHONIC	040
TANDY	017 040
TASHICO	134
TATUNG	044 048
TEAC	040 044 048
TECHNICS	037 039
TEKNIKA	025 037 039 040 087
TELEFUNKEN	136
THOMAS	040
THOMSON	136
THORN	136
TMK	013
TOSHIBA	015 019 047 051 063 085 098 112 155
TOTEVISION	045 087
UNITECH	045
VECTOR RESEARCH	018
VICTOR	052
VIDEO CONCEPTS	018 040 050
VIDEOSONIC	045
WARDS	003 019 023 030 037 039 040 045 057 058 112
YAMAHA	018 040 044 048
ZENITH	040 052 060 062 076 083 087

Setup Code Table: SAT

MANUFACTURER/BRAND	SETUP CODE NUMBER															
ALPHASTAR	472															
ALPHASTAR DBS	450															
ALPHASTAR DSR	422 442															
AMPLICA	356															
BIRDVIEW	414 425															
BSR	359															
CAPETRONICS	359															
CHANNEL MASTER	320 321 322 325 361															
CHAPARRAL	315 316 319 380 451															
CITOH	360															
CURTIS MATHES	356															
DRAKE	312 313 317 318 413 481															
DX ANTENNA	331 352 362 379 483															
ECHOSTAR	364 395 397 452 453 463 477 478 484 485															
ELECTRO HOME	392															
EUROPLUS	415															
FUJITSU	324 328 329 334															
GENERAL INSTRUMENT	303 311 323 365 403 454 468 474															
HITACHI DBS	455															
HOUSTON TRACKER	463															
HUGHES	372 437															
HYTEK	359															
JANIEL	366															
JERROLD	367 454 464 468															
KATHREIN	410															
LEGEND	453															
LUXOR	368															
MACOM	317 365 369 370 371															
MAGNAVOX	461 473															
MEMOREX	453															
NEXTWAVE	423 424															
NORSAT	373 374															
OPTIMUS	466															
PANASONIC	366 469															
PANASONIC DBS	457															
PANSAT	420															
PERSONAL CABLE	418															
PHILIPS	375															
PICO	407															
PRESIDENT	326 404															
PRIMESTAR	412 454 464 475															
RCA	301 408 436 439 458 465															
REALISTIC	349 377 480															
SAMSUNG	422 442															
SATELLITE SERVICE CO	335 341 353 388															
SCIENTIFIC ATLANTA	339															
SONY	405 438															
STAR CHOICE DBS	459															
STARCAST	347															
SUPER GUIDE	327 423 424															
TEECOM	330 333 378 390 391 393 409															
TOSHIBA	302 426 443 460 461 462 470															
UNIDEN	323 332 348 349 350 351 354 355 381 382 383 389 403 466 479 480															
ZENITH	385 386 387 394 419															

Setup Code Table: AVR/Audio

MANUFACTURER/BRAND	SETUP CODE NUMBER															
HARMAN KARDON	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	016 017 019

Setup Code Table: Cable

MANUFACTURER/BRAND	SETUP CODE NUMBER
ABC	001 003 011 045 048 052 059 110
ALLEGRO	111
AMERICAST	212
ANTRONIX	021
ARCHER	012 014 021 031 112
BELCOR	113
CABLE STAR	033 113
CENTURION	092
CENTURY	014
CITIZEN	014 111
COLOUR VOICE	069 090
COMBANO	083 084
COMTRONICS	026 037
DIAMOND	030
DIGI	114
EAGLE	027 037 046 186
EASTERN	063 066 070 115
ELECTRICORD	039
EMERSON	112
FOCUS	116
G.I.	001 003 011 015 017 093 095 096 097
GC ELECTRONICS	113
GE	076
GEMINI	015 029 032 060
GENERAL	210
GENERAL INSTRUMENT	168
GOLDEN CHANNEL	037
GOODMIND	112
HAMLIN	055 056 061 099 100 101 117 175 207 208
HITACHI	001 061 188
HOSPITALITY	074 080
JASCO	111
JERROLD	001 002 003 011 015 016 017 073 093 095 096 097 162 167
LINDSAY	118
M-NET	043
MACOM	040 191
MAGNAVOX	017 019 068 082
MEMOREX	058
MOVIE TIME	035 039
NSC	022 035 044 075 190
OAK	023 038 043 059 094 196 197
PACE	179
PANASONIC	050 053 176 177 189 214
PANTHER	114
PARAGON	058
PHILIPS	013 019 020 027 069 085 090
PIONEER	001 041 057 079 119 171 200 209
POPULAR MECHANICS	116
POST NEWS WEEK	023
PRELUDE	120
PRIMESTAR	162
PTS	018 054 075 076
PULSAR	058
RADIO SHACK	111 112 213
RCA	053 214
RECOTON	116
REGAL	055 056 061 099 100 101 207
REGENCY	063 115
REMBRANT	032
SAMSUNG	037 072 186
SCIENTIFIC ATLANTA	003 018 047 048 049 051 052 110 183 184 203 204
SEAM	121

Setup Code Table: Cable (continued)

MANUFACTURER/BRAND	SETUP CODE NUMBER
SHERITECH	029
SIGNAL	037
SIGNATURE	001 188
SL MARX	037
SPRUCER	053 081 177 189
STARCOM	002 011 015 016 163
STARGATE	015 037 120
SYLVANIA	071
TADIRAN	037
TANDY	024
TELECAPATION	028
TEXSCAN	036 071
TFC	122
TIMELESS	123
TOCOM	045 046 062 170 205
TOSHIBA	058
UNIKA	014 021 031
UNITED CABLE	011 059
UNIVERSAL	012 014 021 031 033 034 039 042 113
VIDEOWAY	124 211
VIEWSTAR	019 022 025 086 087 088 089 190
ZENITH	058 065 098 125 211
ZENTEK	116

Setup Code Table: DVD

MANUFACTURER/BRAND	SETUP CODE NUMBER
APEX DIGITAL	061
CALIFORNIA AUDIO	040
DENON	002 019 022 034 051
GE	003 004
GOLDSTAR	005
HARMAN KARDON	001 032 066 067 068 069
JVC	006
KENWOOD	007 050 072
KLH	071
LG	005 055 064
LOTTE	008
MAGNAVOX	033 056
MARANTZ	033 059
MITSUBISHI	023 036
NAD	010 062
ONKYO	009 015 048
OPTIMUS	011 050
PANASONIC	024 025 030 034 035 044 052
PHILIPS	033 056
PIONEER	012 020 038 041 046 047 065
PROCEED	060
PROSCAN	003 004 037
RCA	003 004 018 037
RUNCO	027
SAMSUNG	031 053 054
SANYO	013 049
SHARP	021 028 050
SONY	015 029 043 045 070
TECHNICS	026
THOMSON	003 004
TOSHIBA	009 033 047 057 058
YAMAHA	016 017 030 063
ZENITH	005 033 055 064
ZENITH DIVX	039

Setup Code Table: CD

MANUFACTURER/BRAND	SETUP CODE NUMBER
ADC	012
ADCOM	049 063 069
AIWA	072 111 118 156 170
AKAI	050 177 184
AUDIO TECHNICA	053
AUDIOACCESS	125
AUDIOFILE	211
BSR	044 064
CALIFORNIA AUDIO	015 109
CAPETRONIC	070
CARRERA	064 087
CARVER	051 057 136 140 141 143 144 145 185 186
CASIO	066 117 122 166
CLARINETTE	122 166
CROWN	042
CURTIS MATHES	066
DENON	187 188 213
EMERSON	049 052 093 108
FISHER	023 055 057 068
FRABA	117
FUNAI	126
GE	164
GENEXXA	017 096 108
GOLDSTAR	016 087
HAITAI	099 214
HARMAN KARDON	001 002 025 040 054 190 218 219 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240
HITACHI	049 093
INKEL	026 027 216
JC PENNEY	021 066 098 147
JENSEN	153
JVC	029 176 195 196
KENWOOD	014 020 023 030 062 078 079 148 151 176 178 181
KYOCERA	012
LOTTE	108
LUXMAN	018 035 077 102
LXI	066 164
MAGNAVOX	039 051 113
MARANTZ	043 051 058 084 191 192 193
MCINTOSH	194
MCS	021 066 080 098
MEMOREX	096
MGA	032
MISSION	051
MITSUBISHI	032
MITSUMI	152
MODULAIRE	122 166
NAD	013 074 197 198
NAKAMICHI	199 200 201
NEC	021 069
NIKKO	053 055
NSM	051
ONKYO	037 038 045 046 171 175 202 203
OPTIMUS	020 036 056 057 064 065 089 090 091 092 096 099 104 212
PANASONIC	015 075 109 119 158 183 204
PHILIPS	039 051 138 149 209
PIONEER	017 036 071 094 096 100 112 123 131 160 161 162 215
PROTON	051 210
QUASAR	015 109
RADIO SHACK	122 126 213
RCA	024 049 081 093 150
RCX	169

Setup Code Table: CD (continued)

REALISTIC	049 056 057 058 093 095 104 105 108 164 166
ROTEL	051
SAE	051
SAMSUNG	028
SANSUI	047 051 081 134 157 172
SANYO	033 057 068 082 095 168
SCOTT	108
SEARS	066
SHARP	020 058 073 105 114 151 159 167 180 181
SHERWOOD	003 026 027 041 058 105 133
SIGNATURE	040
SONY	060 103 115 116 118 132 139 163 205 206 207 208 212 217
SOUNDSTREAM	124
STS	012
SYLVANIA	051
SYMPHONIC	059 110
TAEKWANG	177
TANDY	096
TEAC	011 022 048 058 085 086 106 107 110 121 137 146 154
TECHWOOD	083
THETA DIGITAL	039
TOSHIBA	013 074 097 151 155 173
VECTOR RESEARCH	087
VICTOR	029 120 130
WARDS	040 095
YAMAHA	019 031 053 061 135 169
YORK	122 166

Setup Code Table: Tape

MANUFACTURER/BRAND	SETUP CODE NUMBER
HARMAN KARDON	001 002 003 004 005 006 007 008 009 010 011 012 013 014 015

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