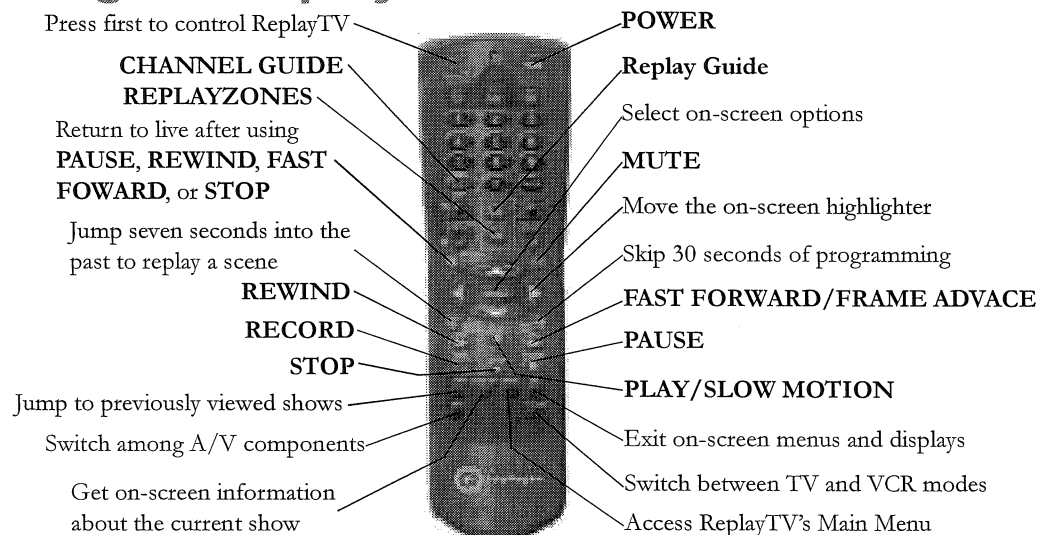


Using the ReplayTV remote control



ReplayTV's remote control is a universal remote. In addition to operating your ReplayTV, it can operate many of your other devices, including your TV, VCR, DVD player, and cable box or satellite receiver. See "Setting up your components" on page 83 for more information on controlling other devices.

ReplayTV's remote control can operate more than one device, but the remote must be in the correct mode to operate the desired component. To change modes, press the appropriate mode button. For example, to turn on your ReplayTV, press the **REPLAYTV** button, then press **POWER**. Similarly, to operate your TV or VCR, press the **TV** or **VCR** button before entering additional commands.

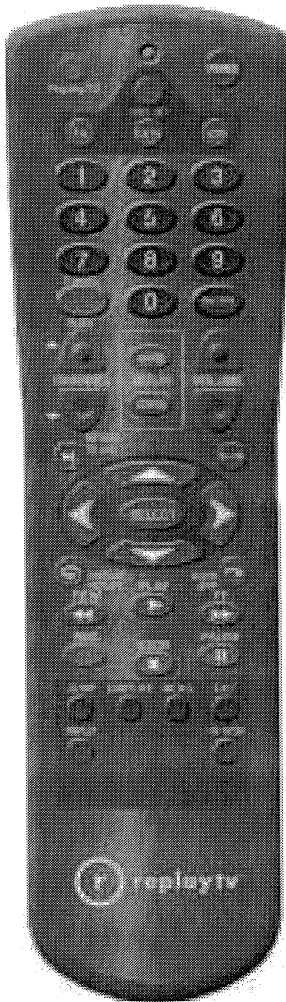
Appendix A: ReplayTV Universal Remote Control

Appendix A describes the features and functions of ReplayTV's universal remote control. It also provides instructions for programming the universal remote control to operate your other components.

ReplayTV's universal remote control

ReplayTV's universal remote control is pre-programmed to operate your ReplayTV. To operate other components, you'll need to program the remote control with a special code. See "Setting up your components" on page 83 for instructions on programming ReplayTV's universal remote control to operate your other components.

- To select a component to control:
 1. Press **REPLAYTV**, **TV**, **CATV** (for a cable box or satellite receiver), or **VCR** (also for a DVD player if you reassign the button), once to select a component to control.
 2. Use the remote control to operate the component you specified. For example, if you pressed **VCR** once, use the remote control to perform VCR commands, like play, fast forward, stop, and rewind.
 3. Press **REPLAYTV**, **TV**, **CATV**, or **VCR** once again to operating another component.



Features and functions of the remote control

ReplayTV

Places the universal remote control in ReplayTV mode—giving you control of your ReplayTV's features and functions.

Red LED

Flashes red when the remote control is sending a signal.

POWER

Turns on or off the currently selected component (ReplayTV, TV, VCR, CATV, or a reassigned component).

Code Set

Programs the remote control to operate additional entertainment components. See "Setting up your components" on page 83 for more information.

TV, CATV, VCR

Puts the remote control into specific modes necessary to operate your television, cable box, VCR, or other components.

Number buttons

Use the keypad (0-9) to directly select channels. (For example, press **1** and **3** to immediately tune to channel 13.)

Channel Guide

Displays ReplayTV's Channel Guide.

Enter

If you need to use an Enter button to change channels with your television remote control, use the **ENTER** button on the ReplayTV remote control after entering the appropriate channel number.

Channel +/- buttons

Selects the next higher (or lower) television channel.

Replay Guide

Displays ReplayTV's Replay Guide.

ReplayZones

Displays the current ReplayZones available from the ReplayTV Service.

Volume +/- buttons

Raises or lowers the volume on your television.

Return to Live

Returns your ReplayTV to live television broadcasts after using **PAUSE**, **REWIND**, **FAST FORWARD**, or **STOP**.

Mute

Turns the sound on your television off or on.

Left, Right, Up, Down Arrow buttons

Control on-screen menu navigation.

Select

Selects options from on-screen menus.

Instant Replay

Jumps back seven seconds during a live or recorded show, then continues playing.

QuickSkip

Jumps 30 seconds ahead during live or recorded shows. Also works for a live broadcast if you have used the **STOP**, **PAUSE**, or **REWIND** buttons.

REWIND, PLAY, FAST FORWARD, RECORD, STOP, PAUSE

Controls the similar functions on your other components.

Jump

Moves quickly between the channel you are currently watching and the last channel displayed.

Display

Activates the on-screen display function for each of your components.

Menu

Accesses the menu of the selected component.

Exit

Exit a selected component's on-screen menu or guide.

Input

Switches between the inputs connected to your ReplayTV. If you have more than one component connected to your television, you may have to scroll through several inputs to find the one that corresponds to the desired component.

TV/VCR

Switches between inputs of other devices. TV mode toggles TV and VIDEO. CATV mode toggles A/B VIDEO.

Installing the batteries

ReplayTV's universal remote control, requires two (2) new AA alkaline batteries.

- To install the batteries:
 1. Pull back on the tab and remove the battery cover from the back of the ReplayTV universal remote control.
 2. Match the + and - marks on the batteries to the + and - marks in the battery case and insert the batteries.

3. Press the battery cover back into place.
4. Remove the clear plastic strip covering the infrared window on the top of the remote control.
5. Test the unit by pressing **POWER**. If the batteries are inserted correctly, the red LED will blink.

Note: When the batteries need replacing, the LED on the remote control will blink twice with every button press. Simply replace the batteries and the remote control will be restored to its full functionality.

Changing volume lock

ReplayTV's remote is set to control volume through your ReplayTV unit while in the CATV, TV, or VCR modes. If your TV does not use a remote control, or you want to control volume through a different component, you can change the volume lock setting to control volume through a different mode (e.g. through a cable box while in TV mode).

- Setting the volume lock to another mode:
 1. Press and hold the **CODE SET** button until the ReplayTV remote's red LED blinks twice, then release **CODE SET**.
 2. Press **9, 9, and 3** and then press and release any mode button (except **TV**). The ReplayTV remote's red LED will blink twice.

After following these steps, when you press **VOLUME +/-** or **MUTE**, the mode you've chosen will control the volume. To change the volume lock setting back to TV mode, repeat steps 1-3 and use the **TV** mode button.

Setting up your components

Programming the ReplayTV remote to operate your TV

See “Component setup codes” on page 89 to find your television's code.

1. Turn off your ReplayTV.
2. Turn on your TV.
3. Using ReplayTV's universal remote control, press **TV**.
4. Press and hold the **CODE SET** button until the ReplayTV remote's red LED blinks twice, then release **CODE SET**.
5. Enter the first four-digit TV code listed for your brand in “Codes for TVs” on page 90. If you perform this procedure correctly, the red LED will blink twice when you enter the final digit of the code.
6. Press **POWER**. Your TV should turn off. If your TV does not respond, repeat steps 2-4, trying each code listed for your brand until you find one the correct one.

Remember to press the **TV** button before using ReplayTV's universal remote control to operate your TV.

Programming the ReplayTV remote to operate your VCR

See “Component setup codes” on page 89 to find your VCR’s code. VCR brands are listed in alphabetical order with the most popular codes for each brand listed first.

1. Turn off your ReplayTV.
2. Turn on your VCR.
3. Using ReplayTV’s universal remote control, press **VCR**.
4. Press and hold the **CODE SET** button until the ReplayTV remote’s red LED blinks twice, then release **CODE SET**.
5. Enter the first four-digit VCR code listed for your brand in “Codes for VCRs” on page 93. If you perform this procedure correctly, the red LED will blink twice when you enter the final digit of the code.
6. Press **POWER**. Your VCR should turn off. If your original VCR remote control does not have a **POWER** button, press **PLAY** instead. Your VCR should start to play. If your VCR does not respond, repeat steps 2-4, trying each code listed for your brand until you find the correct one.

Remember to press the **VCR** button before using ReplayTV’s universal remote control to operate your VCR.

Programming the ReplayTV remote to operate your DVD player

See “Component setup codes” on page 89 to find your DVD’s code. DVD player brands are listed in alphabetical order with the most popular codes for each brand listed first.

1. Turn off your ReplayTV.
2. Turn on your DVD player and insert a disc.
3. Using ReplayTV’s universal remote control, press **VCR**.
4. Press and hold the **CODE SET** button until the ReplayTV remote’s red LED blinks twice, then release **CODE SET**.
5. Enter the first four-digit DVD code listed for your brand in “Codes for DVD players” on page 96”. If you perform this procedure correctly, the red LED will blink twice when you enter the final digit of the code.
6. Press **POWER**. Your DVD player should turn off. If your DVD player does not respond, repeat steps 2-4, trying each code listed for your brand until you find correct one.

Remember to press the **VCR** button before using ReplayTV’s universal remote control to operate your DVD player.

Searching for your component's code

If your component does not respond to ReplayTV's universal remote control after trying all of the codes listed for your brand, or if your brand is not listed, you can search for a working code.

(Searching for a TV code in this example)

1. Turn off your ReplayTV.
2. Turn on your TV.
3. Press **TV**.
4. Press and hold the **CODE SET** button until the ReplayTV remote's red LED blinks twice, then release **CODE SET**.
5. Press **9, 9, and 1**.
6. Alternate slowly between pressing **POWER*** and **TV** until your TV turns off. You may have to press this sequence of buttons (**POWER*** then **TV**) up to 100 times to search through the entire library of codes.
7. When your TV turns off, press **CODE SET** to lock in the code for your TV. Your ReplayTV remote is now programmed to operate your TV.

*If you are searching for your VCR or DVD player code, you may want to search with the **PLAY** button rather than the **POWER** button. When your VCR starts to play, press **CODE SET** to lock in your code.

Note: To search for your other component's codes, repeat steps 1 - 4, substituting the appropriate device button (**TV**, **CATV**, or **VCR**) for the component.

Learning the codes programmed into the ReplayTV remote

If you set up the ReplayTV remote by following “Searching for your component’s code” on page 86 you can determine which four-digit code is operating your equipment using the following procedure. For example, to find out which code is operating your TV after setup:

1. Press **TV**.
2. Press and hold the **CODE SET** button until the ReplayTV remote’s red LED blinks twice, then release **CODE SET**.
3. Press **9**, **9**, and **0**.
4. For the first digit of your four-digit code, press **1** and count the number of times the red LED blinks on the ReplayTV remote. If the LED does not blink when you press the number **1**, the digit is **0**.
5. For the second digit, press **2** and count the number of times the red LED blinks on the ReplayTV remote. If the LED does not blink when you press the number **2**, the digit is **0**.
6. For the third digit, press **3** and count the number of times the red LED blinks on the ReplayTV remote. If the LED does not blink when you press the number **3**, the digit is **0**.
7. For the fourth and final digit, press **4** and count the number of times the red LED blinks on the ReplayTV remote. If the LED does not blink when you press the number **4**, the digit is **0**.

Note: To find out the code for your other components, repeat steps 1 through 6, and substitute the appropriate device button (**TV**, **CATV**, or **VCR**) for the component code you wish to know.

Re-assigning component mode buttons

You can program the ReplayTV remote component mode buttons (**TV**, **CATV**, **VCR**) to control other home entertainment components.

For example, to control a TV, a cable box, and a DVD player, you will need to re-assign the **VCR** button to operate the DVD player with the following procedure:

1. Press and hold **CODE SET** until the red LED blinks twice, then release **CODE SET**.
2. Enter **9, 9**, and **2**. The red LED will blink twice.
3. Press **VCR** twice. The red LED will blink twice.
4. You can now program the **VCR** button for your DVD player. See “Programming the ReplayTV remote to operate your DVD player” on page 85.

To reassign other component mode buttons, repeat steps 1 through 4 by substituting the button sequence from the table of popular components below.

TV as 2nd VCR button	Press: CODE SET 9-9-2-VCR-TV
TV as 2nd CATV button	Press: CODE SET 9-9-2-CATV-TV
TV back to TV	Press: CODE SET 9-9-2-TV-TV
VCR as 2nd TV button	Press: CODE SET 9-9-2-TV-VCR
VCR as 2nd CATV button	Press: CODE SET 9-9-2-CATV-VCR
VCR back to VCR	Press: CODE SET 9-9-2-VCR-VCR

Component setup codes

The following tables list setup codes for the most common video components. Use these codes for all of the procedures in this appendix.

Codes for TVs

Television	Codes
AOC	0030, 0019
Admiral	0093
Aiko	0092
Akai	0030
Alaron	0179
Allegro	0720, 0774
Ambassador	0177
Ampro	0751
Anam	0180
Audiovox	0451, 0180, 0092, 0623
Aumark	0060
Baysonic	0180
Belcor	0019
Bell & Howell	0154, 0016
Bradford	0180

Codes for TVs (cont.)

Television	Codes
Brockwood	0019
Broksonic	0236, 0463
CXC	0180
Candle	0030, 0056
Carnivale	0030
Carver	0054
Celebrity	0000
Cineral	0451, 0092
Citizen	0060, 0030, 0056, 0039, 0092
Concerto	0056
Contec	0180
Craig	0180
Crosley	0054
Crown	0180, 0039

Codes for TVs (cont.)

Television	Codes
Curtis Mathes	0047, 0054, 0154, 0051, 0451, 0093, 0060, 0030, 0145, 0056, 0016, 0039, 0166, 0466, 1147, 1347
Daewoo	0451, 0019, 0039, 0092, 0623, 0624
Daytron	0019, 0039
Denon	0145
Dumont	0017, 0019
Dwin	0720, 0774
Electroband	0000
Emerson	0154, 0236, 0463, 0180, 0282, 0178, 0019, 0179 0039, 0177, 0623, 0624
Envision	0030
Fisher	0154
Fujitsu	0179

Codes for TVs (cont.)

Television	Codes
Funai	0180, 0179, 0171
Futuretech	0180
GE	0047, 0051, 0451, 0093, 0282, 0178, 0021, 0135, 1147, 1347
Gibraltar	0017, 0030, 0019
Go Video	0060
GoldStar	0030, 0178, 0019, 0056, 0039
Gradiente	0053, 0056
Grunpy	0180, 0179
Hallmark	0178
Harley Davidson	0179
Harman/Kardon	0054
Harvard	0180
Hitachi	0145, 0056, 0151
Infinity	0054

Codes for TVs (cont.)

Television	Codes
Inteq	0017
JBL	0054
JCB	0000
JVC	0053
KEC	0180
KTV	0180, 0030, 0039
Kenwood	0030, 0019
LG	0056
LXI	0047, 0054, 0017, 0154, 0156, 0178, 1347
Logik	0016
Luxman	0056
MGA	0150, 0030, 0178, 0019
MTC	0060, 0030, 0019, 0056
Magnavox	0054, 0030, 0179
Majestic	0016

Codes for TVs (cont.)

Television	Codes
Marantz	0054, 0030
Matsushita	0051, 0250
Megatron	0178, 0145
Memorex	0154, 0250, 0150, 0060, 0178, 0056, 0016
Midland	0047, 0017, 0051, 0039, 0135
Minutz	0021
Mitsubishi	0150, 0093, 0178, 0019
Motorola	0093
Multitech	0180
NAD	0156, 0178, 0166
NEC	0030, 0019, 0056
NTC	0092
Nikko	0047, 0017, 0154, 0156, 0030, 0178, 0092, 1347
Onwa	0180

Codes for TVs (cont.)

Television	Codes
Optimus	0154, 0250, 0166
Optonica	0093, 0165
Orion	0236, 0463, 0179
Panasonic	0047, 0054, 0154, 0156, 0051, 0250, 0093, 0165, 0150, 0060, 0053, 0178, 0145, 1347
Penney	0047, 0156, 0051, 0060, 0030, 0178, 0021, 0019, 0056, 0039, 0135, 1347
Philco	0054, 0463, 0030, 0145, 0019
Philips	0054, 0017, 0000, 0021, 0019, 0039
Pilot	0030, 0019, 0039
Pioneer	0166
Portland	0019, 0039, 0092
Prism	0051

Codes for TVs (cont.)

Television	Codes
Portland	0019, 0039, 0092, 0051
Prism	0051
Proscan	0047, 0030, 1347
Proton	0178, 0466
Pulsar	0017, 0019
Quasar	0051, 0250, 0165
RCA	0047, 0051, 0093, 0019, 0090, 0135, 1047, 1147, 1247, 1347
Radio Shack	0047, 0154, 0165, 0180, 0030, 0178, 0019, 0056, 0039
Realistic	0154, 0165, 0180, 0030, 0178, 0019, 0056, 0039
Runco	0017, 0030, 0603
SSS	0180, 0019

Codes for TVs (cont.)

Television	Codes
Sampo	0030, 0039
Samsung	0060, 0030, 0178, 0019, 0056, 0039
Samsux	0039
Sansei	0451
Sansui	0463
Sanyo	0154
Scimitsu	0019
Scotch	0178
Scott	0236, 0180, 0178, 0019, 0179
Sears	0047, 0054, 0154, 0156, 0178, 0179, 0056, 0171
Semivox	0180
Semp	0156
Sharp	0093, 0165, 0039
Shogun	0019

Codes for TVs (cont.)

Television	Codes
Signature	0016
Sony	0000
Soundesign	0180, 0178, 0179
Squareview	0171
Starlite	0180
Supreme	0000
Sylvania	0054, 0030
Symphonic	0171
TMK	0178, 0056, 0177
Tandy	0093
Technics	0047, 0017, 0051, 0250, 1347
Technol Ace	0179
Techwood	0051, 0056
Teknika	0054, 0180, 0150, 0060, 0019, 0179, 0056, 0016, 0039, 0092

Codes for TVs (cont.)

Television	Codes
Telefunken	0056
Toshiba	0154, 0156, 0060
Totevision	0039
Universal	0021
Vector Research	0030
Victor	0053
Vidikron	0054
Vidtech	0178, 0019
Wards	0054, 0156, 0165, 0030, 0178, 0021, 0019, 0179, 0056, 0016, 0135
White Westinghouse	0623, 0624
Yamaha	0030, 0019
Zenith	0017, 0016, 0092

Codes for VCRs

VCR	Codes
Admiral	0048
Adventura	0000
Aiko	0278
Aiwa	0037, 0000
Akai	0041
American High	0035
Asha	0240
Audiovox	0037
Beaumark	0240
Bell & Howell	0104
Broksonic	0184, 0121, 0209, 0002
CCE	0072, 0278
Calix	0037
Canon	0035

Codes for VCRs (cont.)

VCR	Codes
Carver	0081
Cineral	0278
Citizen	0037, 0278
Colt	0072
Craig	0037, 0047, 0240, 0072, 0271
Curtis Mathes	0060, 0035, 0041, 0162
Cybernex	0240
Daewoo	0045, 0278
Denon	0042
Dynatech	0000
Electrohome	0037
Electroponic	0037
Emerex	0032
Emerson	0037, 0184, 0000, 0121, 0043, 0209, 0002, 0278

Codes for VCRs (cont.)

VCR	Codes
Fisher	0047, 0104
Fuji	0035, 0033
Funai	0000
GE	0060, 0035, 0048, 0240
Garrard	0000
Go Video	0526
GoldStar	0037, 0038
Gradiente	0000
HI-Q	0047
Harley Davidson	0000
Harman/Kardon	0081, 0038
Harwood	0072
Headquarter	0046
Hitachi	0000, 0042, 0041
JVC	0067, 0041

Codes for VCRs (cont.)

VCR	Codes
Jensen	0041
KEC	0037, 0278
KLH	0072
Kenwood	0067, 0041, 0038, 0046
Kodak	0035, 0037
LXI	0037
Lloyd's	0000
Logik	0072
MEI	0035
MGA	0240, 0043
MGN Technol- ogy	0240
MTC	0240, 0000
Magnasonic	0278
Magnavox	0035, 0039, 0081, 0000, 0149
Magnin	0240

Codes for VCRs (cont.)

VCR	Codes
Marantz	0035, 0081, 0038
Marta	0037
Matsushita	0035, 0162, 0454
Memorex	0035, 0037, 0048, 0039, 0047, 0240, 0000, 0104, 0046, 1162, 1262
Minolta	0042
Mitsubishi	0048, 0067, 0043
Motorola	0035, 0048
Multitech	0000, 0072
NAP	0035, 0037, 0039, 0042, 0033
NEC	0104, 0067, 0041, 0038
Nikko	0037
Noblex	0240
Olympus	0035

Codes for VCRs (cont.)

VCR	Codes
Optimus	0037, 0048, 0104, 0162, 0454, 1062, 1162, 1262
Orion	0184, 0002
Panasonic	1062, 0035, 0162, 0225, 0454, 1162
Penney	0035, 0037, 0240, 0042, 0038
Pentax	0042
Philco	0035, 0209
Philips	0035, 0081
Pilot	0037
Pioneer	0067
Profitronic	0240
Proscan	0060
Protec	0072
Pulsar	0039
Quarter	0046
Quartz	0046

Codes for VCRs (cont.)

VCR	Codes
Quasar	0035, 0162, 0454, 1162
RCA	0060, 0035, 0048, 0240, 0042, 0149
Radio Shack	0000
Radix	0037
Randex	0037
Realistic	0035, 0037, 0048, 0047, 0000, 0104, 0046
Runco	0039
STS	0042
Samsung	0240, 0045
Sanky	0048, 0039
Sansui	0000, 0067, 0041, 0271
Sanyo	0047, 0240, 0104, 0046
Scott	0184, 0045, 0121, 0043

Codes for VCRs (cont.)

VCR	Codes
Sears	0035, 0037, 0047, 0000, 0042, 0104, 0046
Semp	0045
Sharp	0048
Shintom	0072
Shogun	0240
Signature	0035
Singer	0072
Sony	0035, 0032, 0000, 0033
Sylvania	0035, 0081, 0000, 0043
Symphonic	0000
TMK	0240
Tatung	0041
Teac	0000, 0041
Technics	0060, 0035, 0039, 0162
Teknika	0035, 0037, 0000

Codes for VCRs (cont.)

VCR	Codes
Thomas	0000
Toshiba	0045, 0043
Totevision	0037, 0240
Unitech	0240
Vector	0045
Vector Research	0038
Video Concepts	0045
Videosonic	0240
Wards	0060, 0035, 0048, 0047, 0081, 0240, 0045, 0000, 0042, 0072, 0149
White Westing- house	0278
XR-1000	0035, 0000, 0072
Yamaha	0041, 0038
Zenith	0039, 0000, 0033

Codes for DVD players

DVD	Codes
Harman/Kardon	0582
JVC	0558
Kenwood	0534
Magnavox	0503
Mitsubishi	0521
Onkyo	0503
Optimus	0525
Panasonic	0490
Philips	0503, 0539
Pioneer	0525, 0571
Proscan	0522
RCA	0522
Samsung	0573
Sony	0533
Technics	0490

Codes for DVD players (cont.)

DVD	Codes
Theta Digital	0571
Toshiba	0503
Yamaha	0490, 0545
Zenith	0503, 0591

Codes for Laser Disk players

Laser Disk	Codes
Denon	0059
Mitsubishi	0059
NAD	0059
Pioneer	0059
Sony	0193, 0201