

# CheckMate IV RT-U49C Universal Remote Control Guide

## Before Getting Started

Your CheckMate IV Model RT-U49C universal remote control is simple to program, easy to use, and can operate up to four devices, which include:

- Cable: Cable Television Converters
- TV: Televisions
- Video: VCR, DVD
- Audio: Cassette Deck, CD, Receivers, Amplifiers, 2nd TV, 2nd VCR

Before you can use your remote control, it must be programmed (setup) to operate the above devices.

## Point and Press Programming

You can program your TV, VCR, Audio, other devices without codes. Some of the special features and buttons on your remote control are as follows:



<b>ALL</b>	Turns all of your devices on/off with one button press. ALL can even be programmed to automatically tune your TV to its correct output channel.
<b>Movies, Sports, News</b>	Program your favorite channels on the "Movies", "Sports" and "News" buttons.
<b>VCR/VOD Toggle</b>	Toggles the VCR buttons between cable VOD (video-on-demand) and VCR/DVD functions.
<b>SmartKeys</b>	Program multiple button presses on the CBL, TV and BYPASS buttons.
<b>Device</b>	Tells which device you are currently operating by illuminating the device's power button. While the current device is illuminated press a non-illuminated power button to operate a different device.
<b>Memory Guard</b>	Eliminates reprogramming after battery changes.

<b>Time Out</b>	Shuts remote off if any button is pressed and held for 45 seconds. This extends battery life in the event the remote becomes lodged under or between heavy objects.
<b>Total Reset</b>	Lets you reset your remote to its original default settings.

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## Installing and Replacing Batteries

Install two (2) "AA" batteries as indicated by the diagram in the battery compartment.

When the illuminated buttons become dim or do not illuminate during use, install two (2) new "AA" size batteries.

Your remote control has Memory Guard, which eliminates reprogramming after battery changes.

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## Programming

### Cable Converter

Model RT-U49C is preprogrammed to operate Scientific Atlanta's Explorer and Pioneer's Voyager digital converters.

To program your cable converter for use with Scientific Atlanta's Explorer 2000:

1. Turn on your cable converter
2. Press the **CBL** button, then the **SELECT** button together and hold both buttons down until the **CBL** button illuminates.
3. Press the following numbers: **004**.
4. Press the **CBL** button to lock in the code. The **CBL** button will blink 2 times.

### TV

If you have a TV that's operated by remote control, it is recommended that you plug it directly into a wall outlet instead of the cable converter.

To program your TV:

1. Turn on your TV.

2. Press the **TV** button, then the **SELECT** button together and hold both buttons down until the **TV** button illuminates.
3. Press and hold the **CH^** button until your TV turns off. As soon as your TV turns off, release the **CH^** button.

OR

From the TV Setup Code list, locate and enter a 3-digit code for your brand. If multiple codes are listed, you may have to enter several codes until your TV turns off.

4. Press the **MUTE** button. If your TV turns back on, press the **TV** button to lock in the code. The **TV** button will blink 2 times.

If your TV does not turn back on, repeat steps 3 and 4 until you can turn your TV off and on.

Note: If you find a code that turns your TV off but not back on (step 4), you may have gone past the correct matching code when using the Point and Press programming method (step 3 -- first option). Try pressing the **CHv** button (one at a time) until you find a code that turns your TV back on.

To program your TV/VCR combination unit:

1. First, program your remote as a TV.  
Following the steps in this section, find a TV Setup Code that operate the TV functions of your TV/VCR (power, vol^/v, mute, ch^/v, 0-9)
2. Then, program your remote as a VCR. Following the steps in Programming Your Video(VCR/DVD) Device for code number programming, enter, lock and test each 3 digit VCR Setup Code until a code is found that operates the VCR functions of your TV/VCR (play, stop, fast-forward, rewind, pause, record).

Note: You cannot use the Point and Press Programming method to program the VCR functions of the TV/VCR.

### **Video Device (VCR/DVD)**

To program your VCR or DVD:

1. Turn on your VCR or DVD.
2. Press the **VIDEO** button, then the **SELECT** button together and hold both buttons down until the **VIDEO** button illuminates.
3. Press and hold the **CH^** button until your VCR or DVD turns off. As soon as your VCR or DVD turns off, release the **CH^** button.

OR

From the VCR - DVD Setup Code list, locate and enter a 3-digit code for your brand. If multiple codes are listed,

you may have to enter several codes until your VCR or DVD turns off.

4. Press the **MUTE** button. If your VCR or DVD turns back on, press the **VIDEO** button to lock in the code. The **VIDEO** button will blink 2 times.

If your VCR or DVD does not turn back on, repeat steps 3 and 4 until you can turn your VCR or DVD off and on.

Note: If you find a code that turns your VCR/DVD off but not back on (step 4), you may have gone past the correct matching code when using the Point and Press Programming method (step 3 -- first option) . Try pressing the **CHv** button (one at a time) until you find a code that turns your VCR/DVD back on.

## Audio Device

To program your laser disc, compact disc, receiver/amplifier or cassette deck:

1. Turn on your audio device.
2. Press the **AUDIO** button, then the **SELECT** button together and hold both buttons down until the **AUDIO** button illuminates.
3. Press and hold the **CH^** button until your audio device turns off. As soon as your audio device turns off, release the **CH^** button.

OR

From the Audio Setup Code list, locate and enter a 3-digit code for your brand. If multiple codes are listed, you may have to enter several codes until your audio device turns off.

4. Press the **MUTE** button. If your audio device turns back on, press the **AUDIO** button to lock in the code. The **AUDIO** button will blink 2 times.

If your audio device does not turn back on, repeat steps 3 and 4 until you can turn your Audio device off and on.

Note: If you find a code that turns your audio device off but not back on (step 4), you may have gone past the correct matching code when using the Point and Press programming method (step 3 -- first option). Try pressing the **CHv** button (one press at a time) until you find a code that turns your audio device back on.

To program your 2nd TV, VCR or DVD:

1. Turn on your 2nd TV, VCR or DVD.
2. Press the **AUDIO** button, then the **SELECT** button together and hold both buttons down until the **AUDIO** button illuminates.

3. Press the **TV** button to program a 2nd TV (or the **VIDEO** button for 2nd VCR). The **AUDIO** and **TV** buttons will blink.
4. Press and hold the **CH^** button until your 2nd TV turns off. When your 2nd TV turns off, release the **CH^** button.

OR

From the TV Setup Code list, locate and enter a 3-digit code for your brand. If multiple codes are listed, you may have to enter several codes until your 2nd TV turns off.

5. Press the **MUTE** button. If your 2nd TV turns back on, press the **AUDIO** button to lock in the code. The **AUDIO** button will blink 2 times.

If your 2nd TV does not turn back on, repeat steps 3 and 4 until you can turn your 2nd TV off and on.

### **ALL Button**

Once you have programmed each of your devices, press the **ALL** button to turn all of them on/off with a single button press.

If you would like the **ALL** button to also tune your **TV** to its correct output channel (channel 4) follow the steps below:

1. Press the **DEVICE** button, then the **CBL** button to select the remote's cable mode.
2. Press the **SETTINGS** button, then the **ALL** button together and hold both buttons down until the **TV** button illuminates.

Note: When pressing the the **ALL** button, be sure to keep the remote control aimed at the devices to ensure all functions are received in their entirety.

3. Press the **0** button then the **4** button. (Depending on your TV brand, the channel may have to be entered as "**4**", "**04**" or "**004**".)
4. Press the **CH^** button to store the TV channel. The the **TV** button button will blink.

### **MOVIES, SPORTS, NEWS Buttons**

Each of these buttons can be programmed to store a favorite cable channel. For example, to program the **MOVIES** button to cable channel 53, follow these steps:

1. Press the **DEVICE** button, then **CBL** button to select the remote's cable mode.
2. Press the **CBL**, then the **MOVIES** button together and hold both down until the **CBL** button illuminates.
3. Press the **0**, **5**, and **3** buttons (enter channel **3** in 3-digit format).

4. Press the **MOVIES** button to store this channel. The **CBL** button will blink.

The same general procedure can be used to program the **SPORTS** or **NEWS** buttons.

## Volume Control

When you first program your remote, each device controls its own volume (except VCR which defaults to the TV).

The volume control options in each mode of the remote are:

**CBL:** Cable (default), TV or Audio

**TV:** TV (default), Cable or Audio

**VIDEO:** TV (default), Cable or Audio **AUDIO:** Audio device (default), Cable or TV

To control volume/mute through your TV in the remote's Cable mode:

1. Press the **CBL** button, then the **SELECT** button together and hold both buttons down until the **CBL** button illuminates.
2. Press the **VOL^** button, then the **TV** button for TV volume. The **CBL** button will blink.

To return volume control to your converter, repeat step 1, then press the **VOL^** button, then the **CBL** button in step 2.

To control volume/mute through your cable converter in the remote's Video mode:

1. Press the **VIDEO** button, then the **SELECT** button together and hold both buttons down until **VIDEO** button illuminates.
2. Press the **VOL^** button, then the **CBL** button for Cable volume. The **VIDEO** button will blink.

To return volume control to your TV, repeat step 1, then press the **VOL^** button, then the **TV** button in step 2.

## SmartKeys

Your remote has three SmartKeys (**CBL**, **TV**, and **BYPASS**) that operate in its cable mode.

Each SmartKey can be programmed so whenever it's pressed, it can transmit up to 12 individual buttons presses in sequence.

The **CBL** button normally turns on/off your cable converter. To program the **CBL** SmartKey to turn on your converter and TV, and tune your TV to its correct output channel (4) with one button press:

1. Press the **DEVICE** button, then the **CBL** button to select the remote's cable mode.
2. Press the **CBL** button, then **SETTINGS** button together

and hold both buttons down until the **CBL** button illuminates.

3. In this order, press the following buttons: **CBL**, **TV**, **0**, and **4**. \*
4. Press the **CH^** button to lock in this setting. The **CBL** button will blink.

To return the **CBL** button to its normal function, repeats steps 1 and 2, then press the **CHv** button.

The **TV** button normally turns on/off your TV. To program the **TV** SmartKey to turn on your TV and tune to its correct output channel (4) with one button press:

1. Press the **DEVICE** button, then the **CBL** button to select the remote's cable mode.
2. Press the **TV** button, then the **SETTINGS** button together and hold both buttons down until the **TV** button illuminates.
3. In this order, press the following buttons: **TV**, **TV**, **0**, and **4**. \*
4. Press the **CH^** button to lock in this setting. The **TV** button will blink.

To return the **TV** button to its normal function, repeats steps 1 and 2, then press the **CHv** button.

The **BYPASS** button (cable mode) normally places your converter in a BYPASS mode. While the converter is in its BYPASS mode, you can record one program on your VCR and watch a different program through your TV. When exiting the converter's BYPASS mode, your TV must be re-tuned to its correct output channel (4) for proper cable reception. To program the BYPASS SmartKey to automatically tune your TV to its correct output channel:

1. Press the **DEVICE** button, then the **CBL** button to select the remote's cable mode.
2. Press the **BYPASS** button, then the **SETTINGS** button together and hold both buttons down until the **CBL** button illuminates.
3. In this order, press the following buttons: **BYPASS**, **DEVICE**, **TV**, **0**, and **4**. \* The **CBL** button will blink and remain illuminated.
4. Press the **CH^** button to store the setting. The **CBL** button will blink.

To return the **BYPASS** button to its normal function, repeat steps 1 and 2 above, then press the **CHv** button.

\*Depending on your TV brand, the channel may have to be entered as "4", "04" or "004".

Note: When using any SmartKey to transmit a series of

functions, be sure to keep your remote aimed at the devices to ensure all functions are received in their entirety.

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## Operating

### Cable Converter

Your remote control is designed to operate all the features and functions of your digital cable converter.

To operate your cable converter, press the **DEVICE** button, then the **CBL** button. In your remote's cable mode, you can then press:

<b>ALL</b>	All devices on/off
<b>CBL</b>	Cable converter on/off
<b>TV</b>	TV on/off
<b>VIDEO</b>	VCR/DVD on/off
<b>AUDIO</b>	Audio on/off
<b>CH<sup>^</sup>/CH<sub>v</sub></b>	Increases/decreases cable channel
<b>VOL<sup>^</sup>/VOL<sub>v</sub></b>	Increases/decreases cable volume
<b>MUTE</b>	Mute cable volume
<b>EXIT</b>	Exits on-screen menus, view guide, interactive screens
<b>SETTINGS</b>	Displays program settings
<b>GUIDE</b>	Displays interactive program guide
<b>INFO</b>	Displays channel time information
<b>FAV</b>	View favorite channels.
<b>LAST</b>	Last channel viewed
<b>A, B, C</b>	On screen decision buttons
<b>0 - 9</b>	Numeric entry buttons
<b>PAGE<sup>^</sup>/<sub>v</sub></b>	Page up/down through menus, program guide.
<b>&lt;, &gt;, <sup>^</sup>, <sub>v</sub></b>	Navigate on-screen menus, program guide, PPV events and interactive services
<b>SELECT</b>	Select menu, interactive screen item.
<b>BYPASS</b>	Switch between converter and TV
<b>TV/VCR</b>	Changes VCR video inputs

<b>VCR/VOD</b>	Toggles the VCR buttons between cable VOD (video-on demand and VCR/DVD functions.
<<	VCR/DVD rewind
>	VCR/DVD play
>>	VCR/DVD fast-forward
	VCR/DVD pause
?	VCR/ DVD stop
o	VCR/DVD record
<b>MOVIES</b>	Programmable favorite channel
<b>SPORTS</b>	Programmable favorite channel
<b>NEWS</b>	Programmable favorite channel

## TV

Your remote control can operate many functions of your TV. To operate your TV, press the **DEVICE** button, then the **TV** button. In your remote's TV mode, you can then press:

<b>ALL</b>	All devices on/off
<b>CBL</b>	Cable converter on/off
<b>TV</b>	TV on/off
<b>VIDEO</b>	VCR/DVD on/off
<b>AUDIO</b>	Audio on/off
<b>CH<sup>^</sup>/CH<sub>v</sub></b>	Increases/decreases TV channel
<b>VOL<sup>^</sup>/VOL<sub>v</sub></b>	Increases/decreases TV volume
<b>MUTE</b>	Mute TV volume
<b>0-9</b>	Numeric entry buttons
<b>TV/VCR</b>	Changes TV's video inputs
<<	VCR/DVD rewind
>	VCR/DVD play
>>	VCR/DVD fast-forward
	VCR/DVD pause
?	VCR/ DVD stop
o	VCR/DVD record

## Video Device

Your remote control can operate many functions of your VCR or DVD. To operate your TV, press the **DEVICE** button, then the **VIDEO** button. In your remote's Video mode, you can then press:

<b>ALL</b>	All devices on/off
<b>CBL</b>	Cable converter on/off
<b>TV</b>	TV on/off
<b>VIDEO</b>	VCR/DVD on/off
<b>AUDIO</b>	Audio on/off
<b>CH<sup>^</sup>/CH<sub>v</sub></b>	Increases/decreases VCR channel
<b>VOL<sup>^</sup>/VOL<sub>v</sub></b>	Increases/decreases TV volume
<b>MUTE</b>	Mute TV volume
<b>0-9</b>	Enter VCR channels
<b>TV/VCR</b>	Changes VCR video inputs
<b>&lt;&lt;</b>	VCR/DVD rewind
<b>&gt;</b>	VCR/DVD play
<b>&gt;&gt;</b>	VCR/DVD fast-forward
<b>  </b>	VCR/DVD pause
<b>?</b>	VCR/ DVD stop
<b>o</b>	VCR/DVD record

### Audio Device

Your remote control can be setup to operate a tape deck, CD, receiver, amplifier, 2nd TV, 2nd VCR, as an audio device. To operate your Audio device, press the **DEVICE** button, then the **AUDIO** button. In your remotes Audio mode, you can press:

<b>ALL</b>	All devices on/off
<b>CBL</b>	Cable converter on/off
<b>TV</b>	TV on/off
<b>VIDEO</b>	VCR/DVD on/off
<b>AUDIO</b>	Audio on/off
<b>CH<sup>^</sup>/CH<sub>v</sub></b>	Increases/decreases channel
<b>VOL<sup>^</sup>/VOL<sub>v</sub></b>	Increases/decreases volume
<b>MUTE</b>	Mute volume
<b>0-9</b>	Enter channels
<b>TV/VCR</b>	Changes VCR/DVD inputs
<b>&lt;&lt;</b>	Rewind
<b>&gt;</b>	Play
<b>&gt;&gt;</b>	Fast-forward
<b>  </b>	Pause
<b>?</b>	Stop
<b>o</b>	Record

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## Code Number Readback

The steps below identify a 3-digit setup code stored under the Point and Press method. To identify the TV Setup code:

1. Press the **TV** button, then the **SELECT** button together and hold both buttons down until the **TV** button illuminates.
2. Press the **INFO** button. The **TV** button will "blink back" the code numbers, with a 1-second interval between each digit of the code.

For example, for code **035**, the remote will blink 10 times, then 3 times then 5 times.

To identify the 3-digit Video code, press the **VIDEO** button then the **SELECT** button in step 1, then press the **INFO** button.

To identify the 3-digit Audio code press the **AUDIO** button, then the **SELECT** button in step 1, then press the **INFO** button.

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## Total Reset

To reset your remote control to its factory default settings:

1. Press the **CBL** button, then the **SELECT** button together and hold both buttons down until the **CBL** button illuminates.
2. Press the **SETTINGS** button, then the **SETTINGS** button again. The **CBL** button will blink 4 times.

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## Helpful Tips and Troubleshooting

1. Your remote is equipped with a Point and Press programming label on the back of the case. This will help you quickly program the remote without using codes.
2. An illuminated mode (power) button will remain on while the remote is in a programming mode. In the absence of an entry, the illuminated button will go out after 45 seconds.

When locking in your devices, the illuminated button will blink.

3. When using the Point and Press programming method, you may find a code that turns your device off but not back on. If this happens, either:

- a. the correct code has not been found. Continue pressing the **CH^** button until your devices turn on and off.

OR

- b. you may have gone past the correct matching code. Try Pressing the **CHv** button (one press at a time) until you find a code that turns your devices back on.

4. If the same button is pressed and held for 45 seconds, your remote control will turn itself off. This extends the battery life should the remote become lodged under or between heavy objects, for example sofa cushions.

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## Program Code Lists

### TV

Brand	Code
Admiral	058, 061, 062, 067
Adventura	004
Akai	065
Amark	007,086
Amstrad	006
Anam	088, 089, 093
AOC	065
Belcore	041
Bell & Howell	062
Bradford	194
Brocksonic	011, 054
Candle	027, 052
Centurion	044, 051
Citizen	027, 052, 059, 062
Concerto	041, 051
Contec	020
Coronado	007
Crown	007
Curtis Mathes	044, 061, 062
Daewoo	027, 039, 040, 041, 042, 051, 090, 091, 092, 094
Daytron	041, 044, 051
Dumont	041
Electro Home	041, 051
Elektra	002
Emerson	007, 008, 011, 012, 017, 054, 065, 079

Envision	041, 051
Fisher	010, 028
Funai	004
GE	005, 019, 027, 031, 037, 041, 046, 051, 053, 055, 061, 070
Gibraltar	007, 025, 027, 031, 041, 044, 051, 059, 060, 065
Goldstar(LG)	007, 027, 031, 041, 044, 059, 060, 065
Grundig	059
Hall Mark	041, 051
Hitachi	007, 027, 049, 051, 083, 085
Inkel	075
JC Penney	005, 010, 027, 037, 041, 051, 065, 069, 070
JVC	048, 077, 080
Kawasho	041, 051
KMC	007
KTV	007, 030, 059, 065
Kurazai	062
Lodgenet	062
Logik	062
Luxman	027, 041, 51
LXI	006, 035, 067
Maganavox(Philips)	001, 005, 007, 014, 027, 026, 041, 052, 068, 081
Majestic	062
Marantz	003, 065, 076
Megatron	066
Memorex	062
MGA/Mitsubishi	003, 027, 031, 041, 044, 051, 065, 076, 084
Montgomery Ward	007, 037, 044, 057, 058, 062, 065, 067, 081
NEC	023, 027, 031, 044
Orion	013, 017, 033, 045, 047, 078
Panasonic	018, 019, 021, 024, 053, 063
Philco	001, 007, 027, 052, 065, 081
Philips (Magnavox)	001, 014, 027, 031, 081
Pilot	041, 059, 097
Pioneer	056

Portland	007, 027
ProScan	055, 061, 073, 082
Proton	031
Pulsar	041
Quasar	019
Radio Shack	041
Realistic	012, 057, 079
RCA	022, 027, 046, 053, 055, 061, 065, 072, 073, 082
Sampo	031, 044
Samsung	007, 016, 020, 031, 044
Sanyo	002, 010, 028
Scott	031, 044, 079
Sears	002, 007, 010, 016, 027, 028, 043, 069
Sharp	007, 009, 023, 035, 057, 064, 067, 096
Signature	2000 007, 044, 058, 062, 067
Sony	032, 038, 050, 066
Soundesign	052
Squareview	006
Supre-Macy	071
Sylvania	001, 005, 006, 026, 027, 031, 044, 052, 081
Symphonic	004, 006
Tatung	019
Techwood	027
Teknika	001, 007, 027, 052, 062, 079
Telerent	007, 062
TMK	027, 031
Toshiba	016, 029, 043, 069
Totevision	059
Universal	027, 070
Vidtech	027
Wards	027, 031
White Westinghouse	058
XR-1000	062
Yamaha	027
York	031, 044
Zenith	004, 015, 025, 036, 042, 034

**VCR**

<b>Brand</b>	<b>Code</b>
Admiral	014, 056
Adventura	025
Aiwa	025
Akai	011, 021, 051
Audio Dynamics	007, 004
Bell & Howell	005, 024
Broksonic	009, 048, 053, 064
Canon	008, 034
Citizen	002, 006, 028, 060
Colortyme	044
Craig	028, 030
Curtis Mathes	008, 013, 034, 044, 060
Daewoo 006,	010, 012, 057, 058
Daytron	055, 058
DBX	007, 044
Dynatech	025
Emerson	002, 003, 006, 008, 229, 022, 040, 049, 051, 064, 033
Fisher	005, 015, 024, 030, 052
Funai	025
GE	008, 027, 028, 034, 041
Go Video	019, 043, 063
Goldstar(LG)	002, 060
Harman Kardon	004
Hitachi	025, 046, 059
Instant Replay	008, 017, 034

JC Penney	005, 008, 017, 028, 034, 044, 046
JVC	004, 005, 007, 038, 026, 060
JCL	008
Kenwood	005, 007, 060
Lloyd	025
Logix	042
LXI	002, 025
Maganavox	008, 025, 034, 036
Marantz	005, 008, 036, 044, 060
Marta	002
Memorex	002, 005, 025, 030, 034
Mitsubishi	023, 029, 031, 047
MTC	025, 028
Montgomery Ward	014, 025, 027, 034, 037, 062
NEC	005, 007, 044, 070, 071
Orion	022, 049, 065, 066, 067, 068
Panasonic	008, 013, 034
Pentax	046
Philco	008, 013, 034
Philips	008, 017, 034, 036
Pioneer	045, 046
Portland	058
ProScan	027, 041
Quasar	013, 034
Quartz	005

RCA	001, 008, 016, 017, 027, 028, 037, 041, 046
Realistic	005, 014, 025, 030, 034
Samsung	021, 028, 039
Sansai	042
Sanyo	005, 024, 030
Scott	003, 006, 031, 042
Sears	002, 005, 015, 030, 046
Sharp	014, 056
Shintom	042
Signature	2000 014, 025, 027, 037, 062
Sony	032, 035, 050
Sylvania	008, 016, 017, 025, 034, 036, 047, 054, 065, 073, 074
Symphonic	025
Tandy	005, 025
Tashiko	002
Tatung	007
Technics	008
Teknika	002, 053
Toshiba	006, 015, 046, 052
Totevision	002, 028
Unitech	028
Vetor Research	031, 044
Video Concepts	044
Wards	002, 014, 025, 028, 060
XR-1000	042

Yamaha	005, 007, 044
Zenith	018, 035, 038, 061

## DVD

Brand	Code
Denon	076
GE	077, 078
JVC	079
LG	080
Magnavox	081, 082
Mitsubishi	083
Panasonic	084
Pioneer	085
Samsung	086
Sony	087
Toshiba	088
Yamaha	089
Zenith	089

## Laser Disc

Brand	Code
Pioneer	013, 014
Proscan	029
RCA	029
Sanyo	006
Sony	025
Zenith	006

## Compact Disc

Brand	Code
ADC	085
Akai	017, 031
Aiwa	086
Carver	086
Crown	033
Denon	036
Fisher	001, 003
Goldstar (LG)	016
Harmon Kardon	041
JVC	063

Kenwood	001, 015, 028, 065, 086
Kroi	086
Magnavox	002, 007, 019, 038
Mission	086
Mitsubishi	017, 070
NAD	024, 046, 072
Nakamichi	075, 077
NEC	018
NSM	086
Onkyo	076
Panasonic	009, 035
Philips	007, 019, 038
Pioneer	009, 047, 097
Quasar	035
Radio Shack	009, 023, 028, 049, 062
RCA	057, 019, 038
Sanyo	003, 032
SAE	086
Scott	023
Sharp	021, 028
Sony	050, 061, 071
Soundesign	004, 005, 027, 060
STS	085
Sylvania	007
Teac	023
Technics	035, 042, 103
Toshiba	024
Yamaha	074

### Receiver/Amplifier

Brand	Code
Denon	034, 068, 102
Fisher	073
Goldstar (LG)	088
Harmon Kardon	043
JVC	053
Kenwood	045
Marantz	080
Onkyo	052
Philips	089

Pioneer	090, 058
Radio Shack	012, 040
Realistic	079
Sanyo	044
Scott	055
Sharp	082
Sherwood	012, 040
Sony	008, 020, 059, 091
Soundesign	092, 093, 094, 048
Zenith	092, 093, 088, 094, 048
Teac	054, 064
Technics	095
Yamaha	030

## Cassette

Brand	Code
Denon	039
Dynamic Bass	087
Harmon Kardon	051
JVC	056, 098
Kenwood	042
Onkyo	066
Philips DCC	026
Pioneer	010, 032, 099
Sony	022, 096
Technics	037
Technics DCC	026
Yamaha	067, 100, 101

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