CheckMate™ IV

Model RT-U49H+
Universal Remote Control

Programming & Operating Instructions

To have a clearer idea of the features and capabilities of your remote control, take a moment to carefully read these instructions
Save for future reference.

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1. Introduction

Your CheckMate IV, Model RT-U49H+, universal remote control is simple to program, easy to use, and can operate up to four (4) devices, which include:

CABLE	Cable set-top terminals
TV	Televisions
VIDEO	VCR, DVD players
AUDIO	Audio-video receivers, amplifiers, CD players, cassette players, DMX / DCR Digital Music converters

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

2. Before Getting Started

Some of the special features on your remote control are:

Point and Press™ Programming

Lets you program your TV, VIDEO and AUDIO devices without using codes. For more information, see sections 5, 6, 7and 8.

SmartKeys™

Program multiple button presses on the [CABLE], [TV], [BYPASS] and [PPV] buttons. For more information, see section 14.

[DEVICE] Button

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.

[VCR / VOD] Button

"Toggles" the VCR buttons between cable "Video-On-Demand" (VOD) and VCR / DVD functions.

Memory Guard™

Eliminates reprogramming after battery changes.

Time Out

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.

Reset

Lets you reset your remote to its original default settings. For more information, see section 17.

3. Installing / Replacing Batteries

Install two (2) "AAA" 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 "AAA" size batteries.

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

4. Programming Your Cable Set-Top Terminal

Your remote control is pre-programmed to operate Motorola's DCT® (digital) and CFT2200 (analog) set-top terminals. If you are operating either of these cable set-top terminals, no cable programming is necessary - proceed to section 5.

If you need to operate another cable set-top terminal, look up the brand and model number in the Cable Setup Code list. If you are not sure of your brand and model, contact your cable company.

To program (setup) your cable set-top terminal...

1. Turn on your cable set-top terminal.
2. Press [DEVICE], then [MUTE] together - hold both buttons down until the lighted mode buttons start blinking in sequence.
3. Press [CABLE]. The [CABLE] button lights up.
4. From the Cable Setup Code list, locate and enter the 3-digit code for your brand and model.
5. Press [CABLE] to lock in the code. The [CABLE] button will blink and go out.

Cable brand & setup code _____

5. Programming Your TV

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

To program (setup) your TV...

1. Turn on your TV.
2. Press [DEVICE], then [MUTE] together - hold both buttons down until the lighted mode buttons start blinking in sequence.
3. Press [TV]. The [TV] button lights up.
4. a. Press and hold [CH▲] until your TV turns off. As soon as your TV turns off, release [CH▲]❶.

   OR

   b. From the TV Setup Code list, locate and enter the 3-digit code until your TV turns off. If multiple codes are listed, you may have to enter several 3-digit codes until your TV turns off.
5. Press [MUTE]. If your TV turns back on, press [TV] to lock in the code. The [TV] button will blink and go out.

   If your TV doesn't turn back on, repeat steps 4 and 5 above until you can turn your TV off and on.

TV brand & setup code _____

❶ **NOTE** when using the Point and Press™ Programming method (step 4a.). If you find a code that turns your TV off but not back on, you may have gone past the correct matching code. Try pressing [CH▼] one step at a time until you find a code that turns your TV back on.

6. Programming Your VCR or DVD

To program (setup) your VCR or DVD player...

1. Turn on your VCR or DVD player.
2. Press [DEVICE], then [MUTE] together - hold both buttons down until the lighted mode buttons start blinking in sequence.
3. Press [VIDEO]. The [VIDEO] button lights up.
4. a. Press and hold [CH▲] until your VCR or DVD turns off. As soon as your VCR or DVD turns off, release [CH▲]❶.

   OR

   b. From the VCR or DVD Setup Code list, locate and enter the 3-digit code until your VCR or

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DVD player turns off. If multiple codes are listed, you may have to enter several 3-digit codes until your VCR / DVD turns off.

5. Press [MUTE]. If your VCR or DVD player turns back on, press [VIDEO] to lock in the code. The [VIDEO] button will blink and go out.

   If your VCR or DVD doesn't turn back on, repeat steps 4 and 5 above until you can turn your VCR or DVD off and on.

VCR / DVD brand & setup code _____

❶ **NOTE** when using the Point and Press™ Programming method (step 4a.). If you find a code that turns your VCR or DVD off but not back on, you may have gone past the correct matching code. Try pressing [CH ▼] one step at a time until find a code that turns your VCR or DVD back on.

7. Programming Your TV / VCR Combination

1. First, program your remote for the TV functions.
   a. Refer to Section 5 - Programming Your TV.
   b. Find a TV Setup Code that operates the TV functions (power, vol▲/ ▼, mute, CH▲/ ▼, 0-9) of your TV / VCR unit.
2. Then, program your remote for the VCR functions.
   a. Refer to Section 6 - Programming Your VCR or DVD.
   b. Enter, lock and test each 3-digit VCR Setup Code until a code is found that operates the VCR functions (play, stop, fast-forward, rewind, pause, record) of your TV / VCR unit.

NOTE: You can not use the Point and Press™ Programming method to program the VCR functions of your TV / VCR unit.

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8. Programming Your Audio Device

To program (setup) your audio-video receiver, amplifier, CD player, cassette player or Digital Music converter...

1. Turn on your Audio device.
2. Press [DEVICE], then [MUTE] together - hold both buttons down until the lighted mode buttons start blinking in sequence.
3. Press [AUDIO]. The [AUDIO] button lights up.
4. a. Press and hold [CH ▲] until your Audio device turns off. As soon as your Audio device turns off, release [CH ▲]❶.

   OR

   b. From the Audio Setup Code list below, locate and enter the 3-digit code until your device turns off. If multiple codes are listed, you may have to enter several 3-digit codes until your Audio device turns off.
5. Press [MUTE]. If your Audio device turns back on, press [AUDIO] to lock in the code. The [AUDIO] button will blink and go out.

   If your Audio device doesn't turn back on, repeat steps 4 and 5 above until you can turn your Audio device off and on.

Audio brand & setup code _____

❶ **NOTE** when using the Point and Press™ Programming method (step 4a.). If you find a code that turns your Audio device off but not back on, you may have gone past the correct matching code. Try pressing [CH ▼] one-step at a time until find a code that turns your Audio device back on.

9. Operating Your Cable Set-Top Terminal

Your remote control is designed to operate all the features and functions of your cable set-top terminal.

To select your remote's <u>CABLE</u> <u>mode</u> and operate your cable set-top terminal, press [DEVICE] then [CABLE]. The [CABLE] button will blink and go out. Then press...

[CABLE]	CABLE on / off.
[TV]	TV on / off.
[VIDEO]	VCR / DVD on / off.
[AUDIO]	AUDIO device on / off.
[CH▲] / [CH▼]	Increases / decreases CABLE channel.
[VOL▲] / [VOL▼]	Increases / decreases TV volume.
[MUTE]	Mutes TV volume.
[EXIT]	Exits on-screen menus, view guide.
[MENU]	Displays on-screen features, options.
[GUIDE]	Displays on-screen listing of programs by date, time, channel.
[INFO]	Displays channel, time information.
[PPV] / [LOCK]	Displays pay-per-view events, enter parental control access code
[PG▲] / [PG▼]	Page up / down through menus, view guide.
[DAY◄] / [DAY►]	Previous / next day in view guide
[◄], [▼], [►], [▲]	Navigate on-screen menus, program guide, PPV events and interactive services.
[OK] / [SEL]	Select menu option, program PPV events and function options.
[MUSIC] / [ENT]	Selects Music Choice™ digital music through your cable set-top terminal
[HELP]	Displays on-screen help on cable set-top terminals so equipped.
[FAV]	Scroll through favorite channels
[LAST]	Displays last channel viewed.
[A], [B], [C]	Functions set by cable operator.
[0] - [9]	Numeric entry buttons.
[BYPASS]	RF bypass on cable set-top terminal.
[VCR / VOD]	Toggles VCR buttons between cable "Video -On-Demand" (VOD) and VCR functions.
[HELP] + [LAST]	Cable set-top terminal diagnostic functions (DCT, CFT2200)

In your remote's <u>CABLE</u> <u>mode</u>, you can also press the blue buttons at the bottom to operate your VCR / DVD's basic functions or the "Video-On-demand" (VOD) functions on your cable set-top...

[◄◄]	VOD or VCR / DVD rewind.
[►]	VOD or VCR / DVD play.
[►►]	VOD or VCR / DVD fast-forward.
[II]	VOD or VCR / DVD pause.
[■]	VOD or VCR / DVD stop.
[●]	VOD or VCR record.

10. Operating Your TV

Your remote control can operate many functions of your TV.

To select your remote's <u>TV</u> <u>mode</u> and operate your TV, press [DEVICE] then [TV]. The [TV] button will blink and go out. Then press...

[TV]	TV on / off.
[CABLE]	CABLE on / off.
[VIDEO]	VCR / DVD on / off.
[AUDIO]	AUDIO on / off.
[CH▲] / [CH▼]	Increases / decreases TV channels.
[VOL▲] / [VOL▼]	Increases / decreases TV volume.
[MUTE]	Mutes TV volume.
[0] - [9]	Numeric entry buttons.
[MENU] or [OK/SEL]	Accesses TV's on-screen menus.
[BYPASS] / [TV/VCR]	Change TV's video inputs.
[LAST]	View last TV channel
[INFO]	Displays TV channels and time.
[EXIT]	Exits TV's on-screen menus
[PIP]	Picture-in-picture on / off.
[POS]	Picture-in-picture position.
[SWAP]	Picture-in-picture swap.
[FRZ]	Picture-in-picture freeze.
[◄], [▼], [►], [▲]	Navigates TV's menu.
[MUSIC] / [ENT]	Pressed after 0-9 to change channels on some TV's
[C]	Sleep / timer functions.

In your remote's <u>TV</u> <u>mode</u>, you can also press the blue buttons at the bottom to operate your VCR / DVD's basic functions...

[◄◄]	VCR / DVD rewind.
[►]	VCR / DVD play.
[►►]	VCR / DVD fast-forward.
[II]	VCR / DVD pause.
[■]	VCR / DVD stop.
[●]	VCR record.

11. Operating Your VCR or DVD

Your remote control can operate many functions of your VCR or DVD player.

To select your remote's <u>VIDEO</u> <u>mode</u> and operate your VCR or DVD, press [DEVICE] then [VIDEO]. The [VIDEO] button will blink and go out. Then press...

[VIDEO]	VCR / DVD power on / off.
[CABLE]	CABLE on / off.
[TV]	TV on / off.
[AUDIO]	AUDIO on / off.
[CH▲] / [CH▼]	Increases / decreases VCR channels, or DVD skip "+ / –".
[VOL▲] / [VOL▼]	Increases / decreases TV volume.
[MUTE]	Mutes TV volume.
[0] - [9]	Enter VCR channels.
[BYPASS] / [TV/VCR]	Change VCR's video inputs.
[EXIT]	DVD clear functions.
[MENU]	DVD menu functions.
[GUIDE]	DVD guide functions.
[INFO]	DVD program information.
[◄], [▼], [►], [▲]	Navigate DVD menu.
[MUSIC] / [ENT]	DVD enter functions.
[A]	DVD subtitle on / off.
[LAST]	DVD return function.

In your remote's <u>VIDEO</u> <u>mode</u>, you can also press the blue buttons at the bottom to operate your VCR / DVD's basic functions...

[◄◄]	VCR / DVD rewind.
[►]	VCR / DVD play.
[►►]	VCR / DVD fast-forward.
[II]	VCR / DVD pause.
[■]	VCR / DVD stop.
[●]	VCR record.

12. Operating Your Audio Device

Your remote control can operate many functions of your audio-video receiver, amplifier, CD player, cassette player or DMX / DCR Digital Music converter.

To select your remote's <u>AUDIO</u> <u>mode</u> and operate your Audio devices, press [DEVICE] then [AUDIO]. The [AUDIO] button will blink and go out. Then press...

For audio-video receivers, press...

[AUDIO]	A/V receiver on / off.
[VOL▲] / [VOL▼]	Increases / decreases Audio volume.
[MUTE]	Mutes Audio volume.
[CH▲] / [CH▼]	Next / last preset tuner channel.
[1]	Select "Tuner" input.
[2]	Select "CD" input.
[3]	Select "Tape # 1" input.
[4]	Select "Tape # 2" input.
[5]	Select "Phone" input.
[6]	Select "VCR # 1" input.
[7]	Select "VCR #2" input.
[8]	Select "LD" input.
[9]	Select "AUX" input.
[0]	Select "TV" input.
[BYPASS] / [TV/VCR]	AM / FM on tuner.

For CD and cassette players, press...

[◄◄]	**CD / cassette** rewind.
[►]	**CD / cassette** play.
[►►]	**CD / cassette** fast-forward.
[II]	**CD / cassette** pause.
[■]	**CD / cassette** stop.
[●]	**Cassette** record.

For DCR and DMX Digital Music Converters, press...

[AUDIO]	DCR / DMX on / off.
[VOL▲] / [VOL▼]	Increases / decreases volume.
[MUTE]	Mutes volume.
[CH▲] / [CH▼]	Change music selections.
[0] - [9]	Enter selections directly.

13. Programming Volume Control

When you first program your remote, volume / mute are controlled through your TV (except AUDIO volume which defaults to the AUDIO device).

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

CABLE	TV (default), Cable 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 cable set-top terminal in the remote's <u>cable</u> mode...

1. Press [DEVICE], then [MUTE] together - hold <u>both</u> down until the lighted mode buttons start blinking in sequence.
2. Press [CABLE] to select the cable mode. The [CABLE] button lights up.
3. Press [VOL▲], then [CABLE] for cable volume. The [CABLE] button will blink and go out.

To return volume control back to your TV, repeat steps 1. and 2. above, then press [VOL▲], then [TV] in step 3.

14. Your Remote's SmartKeys™

Your remote has four (4) SmartKeys™ - [CABLE], [TV], [PPV], and [BYPASS] that operate in its <u>cable</u> mode. Each SmartKey™ can be programmed so whenever it's pressed, it can transmit up to 12 individual button presses in sequence.

Programming and using the [CABLE] SmartKey™

The [CABLE] button normally turns on / off your cable set-top terminal. Here's an example of how to program the [CABLE] SmartKey™ to turn on (or off) your cable set-top terminal and TV, then tune your TV to its correct output channel, typically 3, with <u>one</u> button press...

1. Press [DEVICE], then [CABLE] to select the Cable mode of your remote.
2. Press [CABLE], then [SEL / OK] together - hold <u>both</u> down together until the [CABLE] button lights up.
3. <u>In</u> <u>this</u> <u>order</u>, press [1], [2], [3]. The [CABLE] button will blink and remain illuminated.
4. Press [CH▲] to lock in this setting. The [CABLE] button will blink and go out.

3. <u>In</u> <u>this</u> <u>order</u>, press [TV], [0], [3]. The [CABLE] button will blink and remain illuminated.
4. Press [CH▲] to lock in this setting. The [CABLE] button will blink and go out.

To return the [CABLE] button to its normal default setting, repeat steps 1 and 2 above, then press [CH▼].

Programming and using the [TV] SmartKey™

The [TV] button normally turns on / off your TV. Here's an example of how to program the [TV] SmartKey™ to turn on (or off) your TV, then tune your TV to its correct output channel, typically 3, with <u>one</u> button press...

1. Press [DEVICE], then [CABLE] to select the Cable mode of your remote.
2. Press [TV], then [SEL / OK] together - hold <u>both</u> down together until the [TV] button lights up.
3. <u>In</u> <u>this</u> <u>order</u>, press [0], [3]. The [TV] button will blink and remain illuminated.
4. Press [CH▲] to lock in this setting. The [TV] button will blink and go out.

To return the [TV] button to its normal default setting, repeat steps 1 and 2 above, then press [CH▼].

Programming and using the [PPV] SmartKey™

The [PPV] button (Cable mode) normally displays your cable system's listing of pay-per-view events. Here's an example of how to program the [PPV] SmartKey™ to tune to a specific cable channel (123) with <u>one</u> button press...

1. Press [DEVICE], then [CABLE] to select the Cable mode of your remote.
2. Press [PPV], then [SELECT / OK] together - hold <u>both</u> down together until the [PPV] button lights up.
3. <u>In</u> <u>this</u> <u>order</u>, press [1], [2], [3]. The [CABLE] button will blink and remain illuminated.
4. Press [CH▲] to lock in this setting. The [CABLE] button will blink and go out.

To return the [PPV] button to its normal default setting, repeat steps 1 and 2 above, then press [CH▼].

Programming and using the [BYPASS] SmartKey™

The [BYPASS] button (Cable mode) normally transmits a command that puts your cable set-top terminal in a BYPASS mode. While the cable set-top terminal is in its BYPASS mode, you can record one program on your VCR while watching a different program through your TV. When exiting cable set-top terminal's BYPASS mode, your TV must be re-tuned to its correct output channel, typically 3, for proper cable reception.

Here's an example of how to program the [BYPASS] SmartKey™ so whenever it is pressed, it will also tune your TV to its correct output channel, typically 3, for proper cable reception...

1. Press [DEVICE], then [CABLE] to select the Cable mode of your remote.

2. Press [BYPASS], then [SELECT / OK] together - hold both down together until the [CABLE] button lights up.

3. In this order, press [DEVICE], [TV], [0], [3]. The [CABLE] button will blink and remain illuminated.

4. Press [CH▲] to lock in this setting. The [CABLE] button will blink and go out.

To return the [BYPASS] button to its normal default setting, repeat steps 1 and 2 above, then press [CH▼].

Remember: 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.

15. Programming a 2ⁿᵈ TV, VCR, DVD

Instead of programming an audio device, you can program your remote to operate a 2ⁿᵈ TV, 2ⁿᵈ VCR, or 2ⁿᵈ DVD player.

To program a 2ⁿᵈ TV to your remote's [AUDIO] button...

1. Turn on your 2ⁿᵈ TV.

2. Press [DEVICE], then [MUTE] together - hold both buttons down until the lighted mode buttons start blinking in sequence.

3. Press [AUDIO], then [TV]. The [AUDIO] and [TV] buttons will start blinking.

4: a. Press and hold [CH▲] until your 2ⁿᵈ TV turns off. As soon as your 2ⁿᵈ TV turns off, release [CH▲]❶.

   OR

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

5. Press [MUTE]. If your 2ⁿᵈ TV turns back on, press [AUDIO] to lock in the code. The [AUDIO] button will blink and go out.

If your 2ⁿᵈ TV doesn't turn back on, repeat steps 4 and 5 above until you can turn your 2ⁿᵈ TV off and on.

❶ **NOTE** when using the Point and Press™ Programming method (step 4a.). If you find a code that turns your 2ⁿᵈ TV off but not back on, you may have gone past the correct matching code. Try pressing [CH▼] one step at a time until find a code that turns your 2ⁿᵈ TV back on.

If you want to program a 2ⁿᵈ VCR or DVD player in the above example, you would press [AUDIO], then [VIDEO] in step 3., then steps 4. and 5. referring to the Video Setup Code list.

16. Code Number Read Back

To identify a 3-digit device code stored under the Point and Press™ method, follow these steps:

1. Press [DEVICE], then [MUTE] - hold both down until the illuminated mode buttons start blinking in sequence.

2. Press [CABLE] to identify your cable set-top terminal code. Or [TV], [VIDEO], [AUDIO] to identify these codes. The selected mode button will be illuminated.

3. Press [INFO]. The illuminated button "blink back" the code numbers, with a 1 second interval between each digit of the code.

Example: For code "035", the remote will blink 10 times, then 3 times, then 5 times.

17. Resetting Your Remote Control

To reset you remote to its factory default settings...

1. Press [SELECT / OK], then [LAST] - hold both down together until the [CBL], [TV], [VIDEO], and [AUDIO] buttons blink in sequence two times (approx. 5 seconds).

18. Helpful Tips & Troubleshooting

1. Your remote is equipped with a Point and Press™ quick-programming sticker on the back of its case. This will help you quickly program the remote without using codes.

2. The illuminated mode button will remain on while the remote is in a programming mode. In the absence of an entry, the button will go out after 20 seconds.

When locking in your devices, the illuminated mode button will blink and go out.

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...

a. the correct code has not been found. Continue pressing [CH▲] until your devices turn on and off.

b. you may have gone past the correct matching code. Try pressing [CH▼] one step at a time until find a code that turns your cable set-top terminal back on.

4. NOTE: If you have a Scientific Atlanta 8500 series cable set-top terminal, press [CH▲] or [CH▼] to turn on the cable set-top terminal. Press [CABLE] to turn these cable set-top terminals off.

5. When operating a General Instrument model DPBB Cable set-top terminal (Cable Setup Code #101), your remote's transmitting distance is limited to 20 ft. This is due to receiving limitations of the cable set-top terminal.

6. If you have any questions concerning the operation of your cable set-top terminal, contact your cable operator.

Cable Setup Codes

Manufacturer	Model	Code
MOTOROLA (GI)	DCT, CFT2200	001
	CFT2000, CFT2100, WNR	115
JERROLD	DL4, DP(V), DQN(V), DPBB	101
OAK / TOCOM	SIGMAONE P1, P2& P3, SIGMA2000, SIGMA 550	037
PIONEER	VOYAGER	122
	BC4100, 4200, 4500, 4600	034
	BA5000, 6000	
	BA-V1000, BA-V2000	120
	BA-9000	121
PACE	510 Digital	122
PHILIPS	Digital	017
SCIENTIFIC-ATLANTA	EXPLORER	122
	8600X	002
	8600	011
	8540, 8550, 8570, 8580, 8590	042
TOCOM	5503VIP & 5507, 5508	003
ZENITH	MM2500	008
	Z-TAC	108

TV Setup Codes

Admiral	072 081 161 160	
Akai	001 146	
Amark	112 143	
Ampro	073 167 157	
Amstrad	052	
Anam	043 056 080 112 131	
AOC	001 004 058 112	
Audiovox	076	
Blaupunkt	088	
Cairn	201	
Candel	001 002 003 004	
Capehart	058	
Cetronic	043	
Citizen	001 002 003 004 043 101 103 143	
Classic	043	
Concerto	004	
Contec	043 050 051	

Coronado	143
Craig	043
Crown	043 143
Curtis Mathes	001 004 101 143
CXC	043
Daewoo	004 016 043 044 076 103 114 125 127 143
Daytron	004 143
Dwin	177
Dynasty	043
Dynatech	062
Eiki	187
Electrohome	024 076 143 196
Emerson	001 004 005 028 043 047 048 050 051 076 096 143 151 153 154 155
Fisher	007 057
Fujitsu	198
Funai	028 043
Futuretech	043
GE	001 004 008 009 034 056 073 074 091 130 144 155 157 160 161 165
Goldstar	004 102 106 112 113 116 119 127 143
Hall Mark	004
Hitachi	004 009 010 011 012 023 072 075 143 158 163 166
Infinity	164
JBL	164
JC Penny	001 004 008 009 024 030 065 101 143 156 160
Jensen	013
JVC	034 038 070 083 145 199
KEC	043
Kenwood	001 070
Kloss	002 059
KMC	143
KTV	001 043 143 154
Lodgenet	072
Logik	072
Luxman	044
LXI	007 015 052 081 160 164 166
Magnavox	001 003 004 022 059 060 061 063 064 094 127 160 164
Marantz	001 164
Matsui	164
Memorex	004 007 072

Metz	088
MGA	001 004 024 028 042
Minerva	088
Mitsubishi	004 024 028 040 042 109 124 146 191
MTC	001 004 062 101
NAD	015 025
NEC	001 016 019 024 040 056 130 132 134
Nikei	043
Onking	043
Onwa	043
Optonica	019 081
Orion	096
Panasonic	034 056 080 092 164
Philco	001 003 004 024 056 059 060 063 064 164
Philips	001 003 004 005 038 059 093 127 164
Pioneer	001 018 023 025 116 135 190
Portland	004 143
Proscan	144 160 161 165 167
Proton	004 058 131 143 171 173 193
Quasar	034 056 092
Radio Shack	004 019 043 127 143
RCA	001 004 023 024 056 065 074 144 152 156 160 161 165
Realistic	007 019 043 047
Roctec	186
Runco	073 157 168 169 178 179 180 181 182
Sampo	001 004 058 202
Samsung	004 050 089 101 105 127 143 160
Sanyo	007 020 053 057 082 166 187
Scott	004 028 043 048 143
Sears	004 007 015 028 030 057 082 094 143 160 165 166
Seleco	189 200
Sharp	004 014 019 022 028 029 081 143 170 175
Siemens	088
Signature	072
Sony	070 085 126 139 147 185 194
Soundesign	003 004 028 043
Spectricon	112
SSS	004 043
Supre Macy	002

Brand	Codes
Sylvania	001 003 044 059 060 063 064 127 160 164
Tandy	081
Tatung	056 062
Technics	034 080
Techwood	004
Teknika	002 003 004 024 028 043 072 101 143
Telefunken	037 046 086 087
Telerent	072
Tera	172
TMK	004
Toshiba	007 015 030 040 062 101 138
Totevision	143
Universal	008 009
Video Concepts	146
Vidikron	174 184 188 192
Vidtech	004
Wards	004 008 009 019 028 034 060 061 063 064 072 074 143 164
Westing House	076
Yamaha	001 004
York	004
Yupiteru	043
Zenith	072 073 095 103 157
Zonda	112

VCR Setup Codes

Brand	Codes
Aiwa	034 161
Akai	016 043 046 124 125 142 146
Ampro	072
Anam	083
Audio Dynamics	012 023 039 043
Brocksonic	035 037 129
Canon	028 083
Capehart	108
Craig	001 104 135
Curtis Mathes	041 083
Daewoo	005 007 010 065 108 110 111 112 117
Daytron	108
DBX	012 023 039 043
Dynatech	034 053
Electrohome	059
Emerson	006 025 027 029 034 035 036 037 046 083 106 117 129 131 138 153 162

Brand	Codes
Fisher	001 008 009 010
Funai	034
GE	063 072 083 107 109 144 147
Go Video	104 115 132 136 155
Goldstar	012 020 106 114 123
Harman/Kardon	012 045
Hitachi	018 020 026 034 043 063 150 160
Instantreplay	083
JCL	083
JC Penny	012 020 083 104 106
Jensen	043
JVC	012 043 048 050 055 060 083 130 150 152
Kenwood	014 034 047 048
Lloyd	034
LXI	001 009 034 106
Magin	104
Magnavox	034 041 067 068 083 156 164
Marnatz	012 067 069 083
Marta	106
Matsui	027 030
MEI	083
Memorex	001 010 014 034 053 072 083 104 106 134 139
MGA	045 046 059
Minolta	020
Mitsubishi	020 045 046 049 051 059 061 142 151
MTC	034 104
Multitech	024 034
NEC	012 023 039 043 048
Nordmende	043
Optonica	053 054
Orion	025
Panasonic	070 074 083 133 140 145
Pentax	020 063 083
Philco	034 067 083
Philips	034 054 067 071 083 106
Pilot	106
Pioneer	020 021 048
Portland	108
Pulsar	072
Quartz	002 041
Quasar	075 083 145
Radio Shack	123
RCA	020 034 041 104 107 109 140 144 145 147 158

Brand	Codes
Realistic	001 008 010 014 034 053 054 083 104 106
Rico	058
Runco	148
Salora	014
Samsung	032 083 104 107 109 112 113 115 122 125
Sansui	043 048 135
Sanyo	001 007 010 014 104 134
Scott	037 112 129 131
Sears	001 008 009 010 014 020 073 081 106 112
Sharp	053 054 083 159 165
Shintom	024
Signature	034
Sony	001 052 053 056 057 058 076 078 083 154
Soundesign	034
STS	020
Sylvania	034 059 067 083
Symphonic	034
Tandy	010 034
Tatung	039 043
Teac	034 039 043
Technics	070 083
Teknika	019 034 083 106
Thomas	034
TMK	006
Toshiba	008 020 042 047 059 079 081 082 112 131
Totevision	104 106
Unitech	104
Vector Research	012
Victor	048
Video Concepts	012 034 046 141
Videosonic	104
Wards	001 020 024 034 053 054 083 104 131
Yamaha	012 034 039 043
Zenith	034 048 056 058 072 080 106

DVD Setup Codes

Brand	Codes
Apex Digital	220
Denon	226 240
GE	231 243
Harman/Kardon	218 225

Brand	Codes
JVC	238
KLH	223
Kenwood	224
LG	235 241 247
Magnavox	237
Marantz	217
Mitsubishi	227
NAD	221
Onkyo	216 233
Panasonic	228 234
Philips	237
Pioneer	229 230
Proceed	219
Proscan	229 231
RCA	231 243
Samsung	236 248
Sharp	222
Sony	232 244
Thomson	231 243
Toshiba	233 245
Yamaha	234 246
Zenith	235 241 247

Audio Setup Codes

Brand	Codes
ADC	007
Adcom	057 082 092 161 225
Aiwa	018 104 170 188 202 203 211 213
Akai	138 189
AMC	125 126 127 128 171 174
Amend	054
Angstrom	142
Arcam	141
Audio Access	147
Audio File	071
Audio Matrix	167
Audio Technica	134
B & K	096 097
Bose	070 170 224
Carver	006 022 028 029 061 071 077 185 201 214 226
Casio	076
Cinema Sound	001 134
Citation	122 148
Clarion	026

Brand	Codes
Curtis Mathes	076
Denon	001 002 011 027 037 109 215 229 230 234
Elnlightened Audio	098 099
Fisher	047 182 214
Fosgate	062 231
Goldstar	008
Harman/Kardon	003 118 121 132 154 227 231 233
Hitachi	020
Inkel	222
JC Penny	076 216
Jensen	058
JVC	056 114 149 155 163 191
Kenwood	005 026 066 145 146 151 162 181 182 190 192 199 222
Koss	216
Krell	072
Kyocera	007
Lexicon	120 180 194
Linn	124
Luxman	004 009 052 115 137 139 165
LXI	076
Magnavox	086 152 164 208
Marantz	006 025 028 031 040 054 063 185 186
Mcintosh	178
MCS	076
Meridian	012 013 100
Mitsubishi	153 204
Mondial	042 043 081 112 157 158
NAD	113 176 186
Nakamichi	103 111 150 172 183
Onkyo	017 046 079 080 084 090 107 108 130 179 187 209
Optimus	026 041 138
Panasonic	032 195
Philips	025 034 038 063
Pioneer	014 033 035 039 044 045 050 069 078 116 159 168 198
Proceed	135 144
RCA	010 048 067 117 156
Realistic	019 056 073 075 095
Rotel	074 083 085
Samsung	016
Sansui	040 048 065 110 119 228
Sanyo	047 059

Brand	Codes
Scott	019 091
Sears	076
Sharp	026 094 131 175 181
Sherwood	024 030 051 055 102 105 106
Sony	015 018 053 064 088 093 101 160 166 184 218
Soundesign	036
SSI	068
Taekwang	138
Teac	005 019 049 111 212 217
Theta Digital	136
Toshiba	060 087 140 198
Yamaha	021 023 026 067 089 129 169 173 177 205 232
Zenith	143 210

LD Setup Codes

Brand	Codes
Denon	250 251
Funai	245
Kenwood	236 249
Magnavox	237 246
Marantz	252
Mitsubishi	246
NAD	246
Optimus	236 239
Panasonic	243
Philips	237
Pioneer	244 246
Radio Shack	245
RCA	235
Realistic	239
Runco	247
Sanyo	241
Sharp	236 249
Sony	240 242
Technics	243
Theta Digital	237
Toshiba	246 249
Yamaha	238 248

DCR Setup Codes

Brand	Codes
DMX-DJ	254
Maestro II	255

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