

# CheckMate® IV Model RT-U49A Universal Remote Control



## Programming And Operating Instructions

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

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### 1. Introduction

Your Checkmate® IV (Model RT-U49A) universal remote control is simple to program, easy to use, and can operate up to four (4) electronic devices which include:

<b>CABLE</b>	Cable set-top terminals
<b>TV</b>	Televisions
<b>VIDEO</b>	VCRs
<b>AUX</b>	2 <sup>nd</sup> CABLE, 2 <sup>nd</sup> TV, 2 <sup>nd</sup> VCR

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

Programming your remote is a simple procedure using **Point and Press™ Programming**, an automatic method whereby the remote self-programs to each of your devices, eliminating the need to use codes. Programming your remote can also be done by entering code numbers.

Simplified Point and Press™ Programming instructions can also be found on the back of your remote control.

### 2. Installing / Replacing Batteries

**Install two (2) new AAA batteries** - alkaline type batteries are recommended for longer operating life. Properly match the "+" / "-" ends of the batteries with the diagram in the battery compartment.

**Low Battery Indication** - when the batteries become low and need to be replaced, the [CABLE] button will blink 2-times whenever any button is pressed. When this happens, replace the existing batteries with two (2) **new** AAA batteries to restore normal operation to the remote control.

Your remote control has **Memory Guard™**, which eliminates reprogramming after battery changes provided new batteries are installed within 6 hours of removal of old batteries.

### 3. Programming Your Cable Set-Top Terminal

Your remote is **pre-programmed** to operate Motorola's **DCT®** and **CFT2200®** cable set-top terminals.

If you need to operate a different cable set-top terminal, look up the brand and model number in the attached code list. If

you are not sure of your brand and model, contact your cable company.

**To program (setup) the remote to operate 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 will illuminate.
4. From the Cable Setup Code list below, 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 2 times and go out.

Write your CABLE brand & setup code \_\_\_\_\_

### Cable Setup Codes

Motorola (General Instrument)	
DCT, CFT2200	101
CFT2100, CFT2000	102
Jerrold	
DL4, DP(V), DQN(V), DPBB	103
Scientific Atlanta	
Explorer	104
8600X	105
8600	106
8540, 70, 90	107
Pioneer	
Voyager	104
BA-V1000, BA-V2000	110
BA-9000	109
BC-4600, BA-5000, BA-6000	108
Tocom	
5503VIP, 5507, 5508	111
Zenith	
Z-Tac	112
MM2500	113
Oak	
Sigma One, P1, P2, P3, Sigma 2000	014

### 4. Programming Your TV

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

**To program (setup) the remote to operate 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 will illuminate.
- 4 a. Press and hold [CH ▲] until your TV turns off. As soon as your TV turns off, release [CH ▼].

OR

- b. From the TV Setup Code list below, locate and enter the 3-digit code for your brand. 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 2 times and go out.

If your TV does not turn back on, repeat steps 4 and 5 above until you can turn your TV off and on. \*

Write your TV brand & setup code \_\_\_\_\_

\* **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 (step 5.), 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. Refer to Section 14 for Code Number Readback.

### TV Setup Codes

BRAND	CODE
Admiral	158 161 162 167
Adventura	104
Akai	165
A Mark	107 186
Amstrad	106
Anam	188 189 193

AOC	165			
Belcor	141			
Bell&Howell	162			
Broksonic	111	154		
Brokwood	141			
Candle	127	152		
Centurion	144	151		
Citizen	127	152	159	162
Concerto	141	151		
Contec	120			
Coronado	107			
Crown	107			
Curtis Mathes	144	161	162	
Daewoo	127	139	140	141 142
	151	190	191	192 194
Daytron	141	144	151	
Dumont	141			
Electron Home	141	151		
Elektra	102			
Emerson	107	108	111	112 117
	154	165	179	
Envision	141	151		
Fisher	110	128		
Funai	104			
GE	105	119	127	131 137
	141	146	151	153 155
	161	170		
Gibraltar	107	125	127	131 141
	144	151	159	160 165
Goldstar (LG)	107	127	131	141 144
	159	160	165	
Grundig	159			
Hall Mark	141	151		
Hitachi	107	127	149	151 183
	185			
Inkel	175			
JC Penney	105	110	127	137 141
	151	165	169	170
JVC	148	177	180	
Kawasho	141	151		
KMC	107			
KTV	107	130	159	165
Kurazai	162			
Lodgenet	162			
Logik	162			
Luxman	127	141	151	
LXI	135	167		
Magnavox	101	105	107	114 127
	126	141	152	168 181
	162			
Majestic	103	165	176	
Marantz	186			
Megatron	162			
Memorex	103	127	131	141 144
MGA / Mitsubishi	151	165	176	184

Montgomery Ward	107	137	144	157	158
	162	165	167	181	
NEC	123	127	131	144	
Orion	133	117	133	145	147
	178				
Panasonic	118	119	121	124	153
	163				
Philco	101	107	127	152	165
	181				
Philips	101	114	127	131	181
	197				
Pilot	141	159	197		
Pioneer	156				
Portland	107	127			
ProScan	155	161	173	182	
Proton	131				
Pulsar	141				
Quasar	119				
Radio Shack	141				
Realistic	112	157	179		
RCA	122	127	146	153 155	
	161	165	172	173 182	
Sampo	131	144			
Samsung	107	116	120	131 144	
Sanyo	102	110	128		
Scott	131	144	179		
Sears	102	107	110	116 127	
	128	143	169		
Sharp	107	109	123	135 157	
	164	167	196		
Signature 2000	107	144	158	162 167	
Sony	132	138	150	166	
Soundesign	152				
Squareview	106				
Supre-Macy	171				
Sylvania	101	105	126	127 131	
	144	152	181		
Symphonic	104	106			
Tatung	119				
Techwood	127				
Teknika	101	107	127	152 162	
	179				
Telerent	107	162			
TMK	127	131			
Toshiba	116	129	143	169	
Totevision	159				
Universal	127	170			
Vidtech	127				
Wards	127	131			
White Westinghouse	158				
XR-1000	162				
Yamaha	127				
York	131	144			
Zenith	104	115	125	136 142	
	134				

**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 operates the TV functions of your TV / VCR (power, vol ▲/▼, mute, ch ▲/▼, 0 - 9).

## 2. Then, program your remote as a VCR

Following the steps in Section 5 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 can **not** use the Point and Press™ Programming method to program the VCR functions of the TV / VCR.

**5. Programming Your VCR****To program (setup) the remote to operate your VCR...**

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

OR

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

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

If your VCR does not turn back on, repeat steps 4 and 5 above until you can turn your VCR off and on. <sup>o</sup>

Write your VCR brand & setup code \_\_\_\_\_

<sup>o</sup> **Note** when using the Point and Press™ Programming method (step 4a.). If you find a code that turns your VCR off but not back on (step 5.), 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 VCR back on. Refer to Section 14 for Code Number Readback.

**VCR Setup Codes**

BRAND	CODE				
Admiral	114	156			
Adventura	125				
Aiwa	125				
Akai	111	121	151		
Audio Dynamics	107	144			
Bell&Howell	105	124			
Broksonic	109	148	153	164	
Canon	108	134			
Citizen	102	106	128	160	
Colortyme	144				
Craig	128	130			
Curtis Mathes	108	113	134	144	160
Daewoo	106	110	112	157	158
Daytron	158	155			
DBX	107	144			
Dynatech	125				
Emerson	102	103	106	108	109
	122	133	140	149	151
	164				
Fisher	105	115	124	130	152
Funai	125				
GE	108	127	128	134	141
Go Video	119	143	163		
Goldstar (LG)	102	160			
Harman Kardon	144				
Hitachi	125	146	159		
Instant Replay	108	117	134		
JC Penney	105	108	117	128	134
	144	146			
JCL	108				
JVC	104	105	107	126	138
	160				
Kenwood	105	107	160		

Logik	142				
LXI	102	125			
Magnavox	108	125	134	136	
Marantz	105	108	136	144	160
Marta	102				
Memorex	102	105	125	130	134
MGA / Mitsubishi	123	129	131	147	
MTC	125	128			
Montgomery Ward	114	125	127	134	137
	162				
Multi Tech	125	128	142		
NEC	105	107	144	170	171
Orion	122	149	165	166	167
	168				
Panasonic	108	113	134		
Pentax	146				
Philco	108	134	136		
Philips	108	117	134	136	
Pioneer	145	146			
Portland	158				
ProScan	127	141			
Quasar	113	134			
Quartz	101	108	116	117	127
	128	137	141	146	
Realistic	105	114	125	130	134
RCA	101	108	116	117	127
	128	137	141	146	
Samsung	121	128	139		
Sansai	142				
Sanyo	105	124	130		
Scott	103	106	131	142	
Sears	102	105	115	130	146
Sharp	114	156			
Shintom	142				
Signature 2000	114	125	127	137	162
Sony	132	135	150		
Sylvania	108	116	117	125	134
	136	165	172		
Symphonic	125				
Tandy	105	125			
Tatung	107				
Teac	107	125			
Technics	108				
Teknika	102	153			
Toshiba	105	115	146	152	

Totevision	102	128			
Unitech	128				
Vector Research	131	144			
Video Concepts	144				
Wards	102	114	125	128	160
XR-1000	142				
Yamaha	105	107	144		
Zenith	118	135	138	161	

**6. Programming Your Auxiliary Device****To program (setup) the remote to operate your AUXILIARY device (2<sup>nd</sup> CABLE, 2<sup>nd</sup> TV, 2<sup>nd</sup> VCR)...**

1. Turn on your AUXILIARY device (2<sup>nd</sup> CABLE, 2<sup>nd</sup> TV, 2<sup>nd</sup> VCR).
2. Press [DEVICE], then [MUTE] together - hold **both** buttons down until the lighted mode buttons start blinking in sequence.
3. Press [AUX]. The [AUX] button will illuminate.
4. Press [TV] to program a 2<sup>nd</sup> TV as your AUXILIARY device. The [AUX] and [TV] buttons will blink together. Or press [CABLE] or [VCR] to program either of these as your AUXILIARY device.
5. a. Press and hold [CH ▲] until your AUXILIARY device turns off. As soon as your AUXILIARY device turns off, release [CH ▲].

OR

- b. From the TV (Cable, VCR) Setup Code lists, locate and enter the 3-digit code for your brand. If multiple codes are listed, you may have to enter several 3-digit codes until your AUXILIARY device turns off.
6. Press [MUTE]. If your AUXILIARY device turns back on, press [AUX] to lock in the code. The two illuminated buttons will blink 2 times and go out.

If your AUXILIARY device does not turn back on, repeat steps 4 and 5 above until you can turn your AUXILIARY device off and on. <sup>o</sup>

Write your AUX device brand & setup code \_\_\_\_\_

<sup>o</sup> **NOTE** when using the Point and Press™ Programming method (step 4a.). If you find a code that turns your AUXILIARY device off but not back on (step 5.), 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 AUXILIARY device back on. Refer to Section 14 for Code Number Readback.

**7. Operating Your Converter**

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

To select your remote's **CABLE mode**, press [DEVICE] then [CABLE]. The [CABLE] button will blink one time. Then press...

[DEVICE]	Illuminates [CABLE] mode.
[CABLE]	CABLE on / off.
[TV]	TV on / off.
[VCR]	VCR on / off.
[AUX]	AUXILIARY device on / off.
[0] - [9]	Numeric entry buttons.
[LAST]	Displays last channel viewed.
[MUSIC / ENTER]	Selects Music Choice(tm) digital music through your converter.

[VOL▲] / [VOL▼]	Increases / decreases CABLE volume.
[MUTE]	Mutes CABLE volume.
[EXIT]	Exits on-screen menus, view guide.
[CH▲] / [CH▼]	Increases / decreases CABLE channel.
[A], [B], [C]	Functions set by cable operator.
[MENU]	Displays on-screen features, options
[GUIDE]	Displays on-screen listing of programs by date, time, channel.

[INFO]	Displays channel, time information.
[FAV]	Scroll through favorite channels.
[DAY▲] / [DAY▼]	Previous / next day in view guide.
[◀], [▼], [▶], [▲]	Navigate on-screen menus, program guide, PPV events and interactive services.
[SEL / OK]	Select menu option, program PPV events and function options.

[PG ▲] / [PG ▼] Page up / down through menus, view guide.

[BYPASS] RF Bypass on converter.  
[\* HELP] Displays on-screen help on converters so equipped.

[PPV / LOCK] Displays pay-per-view events, enter parental control access code.

[SEL / OK] + [INFO] Converter diagnostic functions (DCT / CFT2200 setup code 101).

[VCR / VOD] Press to illuminate current operation of VCR buttons, either CABLE (video - on - demand) or VCR (play, stop, etc.). Press again to change operations from CABLE → VCR or VCR → CABLE. **VCR / VOD operates in CABLE mode only.**

[■]	Stop - CABLE or VCR.
[■ ■]	Pause - CABLE or VCR.
[▶]	Play - CABLE or VCR.
[◀◀]	Rewind - CABLE or VCR.
[●]	Record - CABLE or VCR.
[▶▶]	Fast-forward - CABLE or VCR.

**8. Operating Your TV**

Your remote control is designed to operate many functions of your TV.

To select your remote's **TV mode**, press [DEVICE] then [TV]. The [TV] button will blink one time. Then press...

[DEVICE]	Illuminates [TV] mode.
[CABLE]	CABLE on / off.
[TV]	TV on / off.
[VCR]	VCR on / off.
[AUX]	AUXILIARY device on / off.
[0] - [9]	Numeric channel entry buttons.
[MUSIC / ENTER]	Pressed after 0 - 9 to change channels on some TVs.

[VOL▲] / [VOL▼]	Increases / decreases TV volume.
[MUTE]	Mutes TV volume.
[CH▲] / [CH▼]	Increases / decreases TV channel.

[TV / VCR]	Change TV's video inputs. In your remote's TV mode, you can also press.
[ ■ ]	Stop - VCR.
[ ■■ ]	Pause - VCR.
[ ▶ ]	Play - VCR.
[ ◀◀ ]	Rewind - VCR.
[ ● ]	Record - VCR.
[ ▶▶ ]	Fast-forward - VCR.

## 9. Operating Your VCR

Your remote control is designed to operate many functions of your VCR.

To select your remote's **VCR mode**, press [DEVICE] then [VCR]. The [VCR] button will blink one time. Then press...

[DEVICE]	Illuminates [VCR] mode.
[CABLE]	CABLE on / off.
[TV]	TV on / off.
[VCR]	VCR on / off.
[AUX]	AUXILIARY device on / off.
[0] - [9]	Numeric channel entry buttons.
[VOL▲] / [VOL▼]	Increases / decreases TV volume.
[MUTE]	Mutes TV volume.
[CH▲] / [CH▼]	Increases / decreases VCR channel.
[TV / VCR]	Change VCR's video inputs.
[ ■ ]	Stop - VCR.
[ ■■ ]	Pause - VCR.
[ ▶ ]	Play - VCR.
[ ◀◀ ]	Rewind - VCR.
[ ● ]	Record - VCR.
[ ▶▶ ]	Fast-forward - VCR.

## 10. Operating Your Auxiliary Device

Your remote control can also operate a 2<sup>nd</sup> CABLE set-top terminal, 2<sup>nd</sup> TV, or 2<sup>nd</sup> VCR.

To select your remote's **AUXILIARY** mode, press [DEVICE] then [AUX]. The [AUX] button will blink one

time. Then press...

[DEVICE]	Illuminates [AUX] mode.
[CABLE]	CABLE on / off.
[TV]	TV on / off.
[VCR]	VCR on / off.
[AUX]	AUXILIARY device on / off.

Refer to section 7, 8, or 9 above for operating the AUXILIARY device you have programmed your remote control to operate.

## 11. Programming Volume Control

When you first program your remote, each device controls its own volume (except VCR volume, which defaults to your TV). Your volume control options in each mode are:

<b>CABLE</b>	CABLE (normal), TV or AUX (2 <sup>nd</sup> TV).
<b>TV</b>	TV (normal), CABLE or AUX (2 <sup>nd</sup> TV).
<b>VIDEO</b>	TV (normal), CABLE or AUX (2 <sup>nd</sup> TV).
<b>AUX</b>	AUXILIARY device (normal), CABLE or TV.

**To control volume / mute through your TV in the remote's CABLE mode...**

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

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

**To control volume / mute through your cable set-top terminal in the remote's VCR mode...**

1. Press [DEVICE], then [MUTE] together - hold both down until the lighted mode buttons start blinking in sequence.
2. Press [VCR] to select the VCR mode. The [VCR] button will illuminate.

3. Press [VOL ▲], then [CABLE] for CABLE volume. The [VCR] button will blink 2 times 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.

## 12. Your Remote's SmartKeys™

Your remote is equipped with three (3) SmartKeys™ - [CABLE], [TV], and [BYPASS]. Each SmartKey™ can be programmed to transmit up to 12 functions (button presses), which can help simplify your remote's operation and reduce button presses.

Here are a few examples of how you can program and use each SmartKey™.

### Programming and using the [CABLE] SmartKey™

The [CABLE] button normally turns on / off your cable set-top terminal. You can program the [CABLE] button to turn on (or off) your CABLE, TV, VCR, and AUXILIARY devices with **one** button press.

1. Press [DEVICE], then [CABLE] to select the **CABLE** mode of your remote.
2. Press [CABLE], then [SEL] together - hold **both** down together until the [CABLE] button illuminates.
3. **In this order**, press [CABLE], [TV], [VCR], [AUX]. 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 function, repeat steps 1 and 2 above, then press [CH ▼].

### Programming and using the [TV] SmartKey™

The [TV] button normally turns on / off your TV. You can program the [TV] button to turn on your TV, then tune your TV to channel 3 with **one** button press.

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

2. Press [TV], then [SEL] together - hold **both** down together until the [TV] button illuminates.

3. **In this order**, press [TV], [DEVICE], [TV], [0], [3], [DEVICE], [CABLE]. 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 function, repeat steps 1 and 2 above, then press [CH ▼].

### Programming and using the [BYPASS] SmartKey™

The [BYPASS] button (CABLE mode) places 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.

You can program the [BYPASS] button so that any time it is pressed, it will also tune your TV to a specific channel. This is important because when exiting the cable set-top terminal's BYPASS mode, your TV should be re-tuned to its default channel, typically 3, for proper cable reception.

1. Press [DEVICE], then [CABLE] to select the **CABLE** mode of your remote.
2. Press [BYPASS], then [SEL] together - hold **both** down together until the [CABLE] button illuminates.
3. **In this order**, press [BYPASS], [DEVICE], [TV], [0], [3], [DEVICE], [CABLE]. The [CABLE] button will blink and remain illuminated.
4. Press [CH ▲] to store the setting. The [CABLE] button will blink and go out.

To return the [BYPASS] button to its normal function, 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.

## 13. Code Number Readback

To identify the 3-digit setup code for your devices, 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], [VCR], [AUX] to identify these codes. The selected mode button will illuminate.
3. Press [INFO]. The illuminated button will "blink back" the code number, with a 1-second interval between each digit of the code.

Example : For code "105", the remote will blink 1 time, then 10 times, then 5 times.

## 14. Helpful Tips & Troubleshooting

1. Your remote has a Point and Press™ Programming label on the back of its case. This will help you quickly program the remote **without** using codes.
2. A mode button will illuminate while the remote is in a programming mode. In the absence of an entry, the illuminated button will go out after 40 seconds.
3. When locking in your devices, the illuminated mode button will blink 2 times and go off.
4. When using the Point and Press™ Programming method, you may find a code that turns your device off but not back on (after pressing [MUTE]). If this happens...
  - a. The correct code has not been found. Continue pressing [CH ▲] until your devices turn on and off.
 

OR
  - b. 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 devices back on.
5. If you have a Scientific Atlanta 8500 series converter, press [CH ▲] or [CH ▼] to turn **on** the converter. Press [CABLE] to turn these converters **off**.

6. Your remote control will automatically shut itself off if the same key is pressed and held for 45 seconds. This extends battery life in the event the remote becomes lodged under or between large, heavy objects.

7. To **reset** your remote to its original settings...

- a. Press [DEVICE], then [MUTE] together - hold **both** buttons down until the lighted mode buttons start blinking in sequence.
- b. Press [CABLE]. The [CABLE] button illuminates.
- c. Press [\*Help], then [\*HELP]. The [CABLE] button will blink 3 times and go out.

8. When programming your TV, VCR, or AUXILIARY devices, you may find several setup codes that can turn on / off a specific device. However, not all of these codes may operate all the functions on the device being programmed. Be sure to use the setup code that operates all the functions on the device you are programming.

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

10. **Low Battery Indication** - when the batteries become low and need to be replaced, the [CABLE] button will blink 2-times whenever any button is pressed. When this happens, replace the existing batteries with two (2) new AAA batteries to restore normal operation to the remote control.

