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® V, Model RT-U50, universal remote control is simple to program, easy to use, and can operate up to five (5) electronic devices, which include:

CABLE Cable set-top terminals
TV Televisions
VCR VCR
DVD DVD

AUDIO Receivers, amplifiers, CD players

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, VCR, DVD and AUDIO devices without using codes. For more information, see Sections 5 and 14.

SmartKev™

Program multiple button presses on the [CABLE] and [TV] buttons. For more information, see Section 8.

[A], [B], [C] - Channel Memory Buttons

Program your favorite channels on the [A], [B], [C] buttons. For more information, see Section 11.

Mode Lock™

Your model RT-U50 remote comes "locked" in its cable operating mode. To operate more functions on your TV, VCR, DVD or AUDIO devices, see Section 10.

[DEVICE] Button

Envision

The [DEVICE] button operates only when Mode Lock™ feature is unlocked. When [DEVICE] is pressed, one of the power buttons will light up indicating the current device being operated. While the current mode power button is illuminated, press a non-illuminated power button to operate a different device.

073 095

[VCR / DVD / VOD] Button

Press and hold to "toggle" the transport (Play, Stop, Rew...) buttons between Cable (Video-On-Demand), VCR or DVD functions.

CheckMate® V RT-U50

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 12.

Operating Your Cable Set-Top Terminal

For a description of what each button does, see Section 15.

3. Installing / Replacing Batteries

Install two (2) **new** AAA alkaline batteries. 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], [TV], [VCR], [DVD], [AUDIO] buttons will not illuminate normally, or at all, during operation. When this happens, install two (2) new AAA alkaline batteries to restore normal operation to the remote control.

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

4. Programming Cable Set-Top Terminal

Your RT-U50 remote is <u>pre-programmed</u> to operate Motorola's DCT digital set-top terminals.

To operate a different cable set-top terminal, look up the brand and model in the Cable Setup Code list. If you are not sure of your brand and model, contact your cable operator.

Press [OK/SEL], then [MUTE] together until the power / mode buttons illuminate in slow-rotation (i.e. CABLE → TV → VCR → DVD → AUDIO → CABLE.)

- From the Cable Setup Code list, locate the 3-digit code for your brand / model and enter it on the keypad of the remote control. The cable set-top terminal will turn off.
- Then, press [OK/SEL] to lock in the code. The power / mode buttons will blink 3-times and go out.

Cable Setup Codes

Motorola	
DCT, CFT2200 CFT2100, CFT2000	001 002
Jerrold	
DL4, DP(V), DQN(V), DPBB	003
Scientific Atlanta	
Explorer [®] (#, *) Explorer [®] (Blue Ridge) Explorer (WorldGate [™]) 8600X	004 010 011 012 005 006
Pace	
510 Digital HD Digital	004 010
Pioneer	
Voyager BA-V1000, BA-V2000	004 007
Tocom	
5503VIP, 5507, 5508	800
Zenith	
MM2500 Digital	009 013
4	

5. Programming TV, VCR, DVD, AUDIO Devices

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Code Entry Programming

- Turn on all the electronic devices (TV, VCR, DVD, AUDIO) you want to program the remote to operate.
- Press [OK/SEL] then [MUTE] together until the power / mode buttons illuminate in slow-rotation (i.e. CABLE → TV → VCR → DVD → AUDIO → CABLE...).
- 3. a. To program your TV, locate the 3-digit code for your brand in the TV Setup Code list and enter it on the keypad of the remote control. Entry of the correct code will cause your TV to turn off. If multiple codes are listed for your brand, you may have to enter different codes until your TV turns off.
- b. As soon as you have entered a 3-digit code that turns your TV off, press [MUTE].
- If the TV turns back on, press [OK/SEL] to lock in the code. The power / mode buttons will blink 3-times and go out.

Or

- 2) If the TV does not turn back on, enter a different 3-digit setup code until your TV turns back on. Then press [OK/SEL] to lock in the code. The power / mode buttons will blink 3-times and go out.
- To program your VCR or DVD, refer to the VCR or DVD Setup Code lists and repeat steps 2 and 3 above.
- 5. To program your AUDIO equipment, refer to the **AUDIO Setup Code list** and repeat steps 2 and 3 above.

Point and Press® Programming

This method allows you to *program* the remote control *without* using *codes*. Instead, the remote control automatically finds the correct command that you select in a variety of codes until you find the code that operates your device. You then lock in the correct code as described below.

The following instructions describe how to program your

086 362

remote control using the [CH \blacktriangle] or [CH \blacktriangledown] buttons ("Power" function during programming). You may also program your remote control using other buttons / functions as described in Section 14. When using this method, there are several important points to remember:

- * The order in which you program your electronic devices is **not** important.
- * There may be several codes that turn your electronic devices on / off (or perform other functions). Once you lock-in a code, be sure to check the available functions for that device (i.e. TV Vol ▲ / ▼-, Mute, TV input (TV / VCR button), VCR or DVD Play, Stop..., AUDIO Volume / Mute) to see if they are operating.
- * While the remote is searching for the correct setup code(s) for your electronic devices, it is possible that other (previously programmed) devices may turn on / off (or perform other functions). If this occurs, continue pressing the [CH ▲] or [CH ▼] buttons (or the buttons described in Section 14) until you find the correct code for the device you are programming.
- * It may take several minutes for the remote to find the correct code that turns your device off (or performs another selected function). During this time, the power / mode buttons will illuminate in fast-rotation (i.e. CABLE → TV → VCR → DVD → AUDIO → CABLE...).

Programming your electronic devices using the [Ch ▲] or [Ch ▼] buttons ("Power" function during programming)...

- Turn on all the electronic devices (TV, VCR, DVD, AUDIO) you want to program the remote to operate.
- Press [OK/SEL], then [MUTE] together until the power / mode buttons illuminate in slow-rotation (i.e. CABLE → TV → VCR → DVD → AUDIO → CABLE...).
- 3. Press and hold the [CH ▲] button until <u>one</u> device turns off. While you are pressing the [CH ▲] button, the power / mode buttons will illuminate in fast-rotation. As soon as one device turns off, release the [CH ▲] button.

120 238 243 291 374

4. Press [MUTE]. If the device that turned off...

375

NEC

- a. Turns back on, press [OK/SEL] to lock in this code. The power / mode buttons will blink 3-times and go out.
- Or
- b. Does not turn back on, press [CH ▼] one step at a time until that device turns back on. Each time you press the [CH ▼] button, the power / mode buttons will illuminate once in reverse fast-rotation (AUDIO → DVD → VCR → TV → CABLE).
- Once you have found a code that turns the device on / off, press [OK/SEL] to lock in this code. The power / mode buttons will blink 3-times and go out.
- 5. Repeat steps 2 to 4 above for each of the remaining electronic devices you wish to program the remote to operate.

Programming Your TV / VCR, TV / DVD or TV / VCR / DVD Combination Device

- First, turn on your TV / VCR, TV / DVD or TV / VCR / DVD combination device and install a VHS tape or DVD.
- Next, program your remote to operate the TV functions of your combination device.

Using the Code Entry Programming method described in Section 5, find a <u>TV Setup Code</u> that operates the TV functions (Power, Vol +/-, Mute) of your combination

Last, program your remote to operate the <u>VCR</u> and / or <u>DVD</u> functions of your combination device.

Using the Code Entry Programming method described in Section 5, enter, lock and test each 3-digit <u>VCR and / or DVD Setup Code</u> for your brand until a code is found that operates the transport functions (Play, Stop, Rew, Pause, Rec) functions of your combination device.

Before you can test for the correct VCR or DVD setup code, you must first press the [VCR / DVD / VOD] button to put the transport buttons of the remote in their VCR or DVD mode.

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TV Setup Codes

V IV Scrop Co.					
BRAND		CC	DE		
Admiral	026	054	211	213	
Advent	072	094	425	447	
Adventura	047				
Aiwa	214				
Akai	053				
Amark	023	215			
Amstrad	157				
Anam	217	218	219	220	221
	222	223			
AOC	053				
Apex	030	038	427		
Audiovox	220	451			
Belcor	073				
Bell & Howell	211	213			
Broksonic	165	167			
Brokwood	073				
Candle	068	091			
Centurion	095	107	108		
Citizen	068	091	211	213	233
Concerto	073	095			
Contec	147				
Coronado	023				
Craig	223				
Crown	023				
Curtis Mathes	016	054	107	108	211
	213				
Daewoo	051	068	073	095	158
	159	189	191	194	196
	197	198	200	202	204
	205	206	207	209	
Daytron	073	095	107	108	
Dell	448				
Dumont	073				
Electro Home	073	095			
Elektra	353				
Emerson	016	023	053	064	103
	139	158	159	164	165
	166	167	168	169	392
	400	401	402	408	415

Fisher	355	356			
Funai	047	048	157	168	211
Gateway	426				
GE	015	018	042	044	049
	054	055	068	073	090
	095	101	102	103	389
	390	396	403	406	407
	092				
Gibralta	023	048	053	068	073
	090	095	107	108	233
	360				
Goldstar (LG)	023	053	068	073	090
	107	108	233	360	361
Gradiente	104				
Grundig	233				
Go Video	443				
Hall Mark	073	095			
Hitachi	023	068	095	096	097
	098	099	100		
Inkel	364				
Insigna	450				
JC Penney	039	053	068	073	092
	095	102	355		
Jensen	062				
JVC	104	105	106	396	397
	410				
Kawasho	073	095			
KMC	023				
KTV	023	053	233	366	
Konka	445				
Kurazai	211	213	202		
LG (Goldstar)	023	053	068	073	090
	107	108	233	360	361
Lodgenet	211	213			
Logik	211	213			
Luxman	068	073	095		
LXI	024	026	157		.=.
Magnavox (Philips)	023	068	071	072	073
	089	090	091	092	093
	094	134	385	387	397
	404	040			

211 213

Marantz	053	107	108	109		
Megatron	215					
Memorex	090	211	213	355	388	
	405					
MGA/Mitsubishi	053	068	073	090	095	
	107	109	110	216	384	
	394	395	398	399	417	
	108					
Montgomery Ward	022	023	026	053	071	
	072	108	211	213		
NEC	028	068	090	108	200	
Net TV	426					
Orion	019	159	160	161	162	
	163	382				
Panasonic	042	043	044	045	046	
	429					
Philco	023	053	068	071	072	
	091					
Philips(Magnavox)	023	068	071	072	073	
. ,	089	090	091	092	093	
	094	134	385	387	397	
	404					
Pilot	073	094	233			
Pioneer	111	144	383			
Portland	023	068				
ProScan	055	070				
Proton	090	371	372			
Pulsar	073					
Quasar	044					
Radio Shack	073					
Realistic	022	166	168			
RCA	042	052	053	054	055	
	069	070	416	068		
Sampo	090	108				
Samsung	015	016	017	023	031	
3	090	107	108	134	147	
	151	153	386	411		
Sansui	423	424				
Sanyo	353	355	356	376	377	
Scott	090	108	168			
Sears	023	031	038	039	068	
	353	355	356	- 30	- 30	
Sharp	016	022	023	024	025	
p	0.0	ULL	OLO	021	OLO	

	395	409			
Signature 2000	023	026	108	211	213
Sony	014	020	021		
Soundesign	091				
Squareview	157				
Supre-Macy	380				
Sylvania	068	071	072	090	091
	093	107	108	157	158
	419	092			
Symphonic	047	157			
Tatung	044	446			
Techwood	068				
Teknika	023	068	072	091	168
	213				
Telerent	023	213			
Tera	381				
Tevion	065	414			
TMK	068	090			
Toshiba	030	031	038	039	
Totevision	233				
Universal	068	102			
Vidtech	068				
ViewSonic	428				
Wards	068	090			
White Westinghouse	211	408	449		
XR-1000	213				
Yamaha	068				
York	090	108			
Zenith	047	048	049	050	051
	391	405	406	434	

BRAND CODE Admiral 066 075 Aiwa 132 Akai 269 275 336 351 352 354 Audio Dynamics 243 291 Bell & Howell 357 238

333 337 358 359

033	172	247	331		
291					
172	363				
086	112	247	291		
033	343	344	345	346	
347					
345	365				
243	291				
132					
033	086	132	326	327	
331	332	333	334	335	
336	337	338	339	340	
341	342				
035	081	357	363		
132					
086	172	174	170		
348	349	350			
247	331				
291					
078	132				
086					
078	086	172	238	291	
086					
120	128	243	247	250	
253	238				
120	132	238	243	247	
247	331				
132					
367					
132	331				
086	132	183			
086	172	183	238	247	
291					
331					
368					
132	238	331	363	369	
370					
255	258				
C 500 10 10 10 10					
066	170	173	373		
132	172	367			
	291 172 086 033 347 345 243 132 033 331 336 341 035 132 086 348 247 291 078 086 120 253 120 247 132 367 132 086 291 331 368 132 370 255 132	291 172 363 086 112 033 343 347 345 365 243 291 132 033 086 331 332 336 337 341 342 035 081 132 086 172 348 349 247 331 291 078 132 086 078 086 078 086 120 128 253 238 120 132 247 331 132 367 132 367 132 367 132 367 132 368 172 291 331 368 132 288 370 255 258 132 172	291 172 363 086 112 247 033 343 344 347 345 365 243 291 132 033 086 132 331 332 333 341 342 350 085 081 357 132 086 172 174 348 349 350 247 331 291 078 132 086 078 086 172 086 120 128 243 253 238 120 132 238 120 132 238 120 132 238 132 331 086 172 183 291 331 368 132 183 370 255 258 132 172	291 172 363 086 112 247 291 033 343 344 345 347 345 365 324 243 291 132 326 331 332 333 334 336 337 338 339 341 342 350 350 341 342 350 350 247 331 350 247 348 349 350 247 247 331 291 238 086 172 238 247 253 238 243 247 253 238 243 247 253 238 120 132 238 243 247 331 132 331 368 132 183 238 120 132 238 243 247 253 238 243 247 253 238 120 132 183 2	291 172 363 086 112 247 291 033 343 344 345 346 347 345 365 243 291 291 291 292 293 326 327 331 332 333 334 335 336 337 338 339 340 341 342 342 340 341 342 340 341 342 350 341 342 350 340 341 342 350 340 341 342 350 340 341 342 350 340 341 342 350 340 341 342 350 340 341 340 340 341 340 340 341 340 340 341 340 340 341 342 363 340 341 342 363 340 342 347 350 342 342 347 250 253 238 243 247 250 253 238 243 2

	3/3				
Orion	322	326	327	328	329
	330				
Panasonic	112	117	430	086	
Pentax	078				
Philco	086	132	183		
Philips (Magnavox)	086	132	183		
Pioneer	078	120	263		
Portland	345				
ProScan	170	174			
Quartz	238	378			
Quasar	112				
RCA	078	132	141	170	172
	173	174	086		
Realistic	066	132	238	363	
Samsung	269	271	275	276	278
Sansui	120	367	379		
Sanyo	238	346	357	363	
Scott	033	332	367		
Sears	035	078	238	331	363
Sharp	066	075			
Shintom	367				
Signature 2000	066	170	173	373	
Sony	056	058	060		
Soundesign	132				
Sylvania	086	132	141	183	184
	322	324	420		
Symphonic	132				
Tandy	132	238			
Tashiko	331				
Tatung	243				
Teac	132	243			
Technics	086				
Teknika	132	331	359		
Thomas	132				
TMK	338				
Toshiba	033	035	078	081	
Totevision	172	331			
Unitech	172				
Vector Research	291				
Video Concepts	132	291			

XR-1000	367				
Yamaha	132	243	291	238	
Zenith	058	120	122	128	132
	435				

193 227

066 132 172 247 331

DVD Setup Codes

Apex Digital

Apex Digital	193	227			
B144	146				
Denon	201	203			
DVD-Video	199				
ECA	156				
GE	150	152	156	175	
Goldstar (LG)	129	133	135	179	260
Gradiente	212	234			
Harmon Kardon	256	259			
Hitachi	149				
JVC	177	179			
Kenwood	228				
KLH	248	252			
LG (Goldstar)	129	133	135	179	260
Magnavox	138	143	146		
Marantz	270				
Mintek	432				
Mitsubishi	181	185			
NAD	246				
Onkyo	085	244			
Panasonic	115	118	121	124	431
Pioneer	125	187	188		
Proceed	236				
Samsung	192	224	225		
Sharp	034	076	077	079	
Sony	040	059	061	436	
Sylvania	421				
Thomson	156	237			
Toshiba	082	085	087	113	
Yamaha	121	124	210		
Zenith	129	133	135		

Broksonic

BRAND		CC	DE					
Compact Disc								
ADC	318							
Akai	249	261						
Aiwa	176							
Carver	176	155						
Crown	154							
Denon	273							
Fisher	230	274						
Goldstar (LG)	308							
Harman Kardon	315							
JVC	297							
Kenwood	131	176	274	289	299			
Krol	176							
LG (Goldstar)	308							
Magnavox (Philips)	037	084	119	296				
Mission	176							
Mitsubishi	245	249						
NAD	182	231	290					
Nakamichi	264	319						
NEC	235							
NSM	176							
Onkyo	300							
Panasonic	184	266	437					
Philips (Magnavox)	037	084	119	296	433			
Pioneer	116	127						
Quasar	184							
Radio Shack	186	190	266	279	289			
RCA	295							
Sanyo	230	309						
SAE	176							
Scott	186							
Sharp	288	289						
Sony	067	292	293					
Soundesign	148	242	311	320				
STS	318		0	0_0				
Sylvania	084							
Teac	186							
Technics	184	208	317					
Toshiba	290		017					
Yamaha	280							

Rec	Receiver / Amplifier										
Adcom	325										
Aiwa	301										
Akai	142										
Bose	302	440									
Carver	155	180									
Denon	262	307									
Everquest	136										
Fisher	063	180									
Fosgate Audionics	305										
Goldstar (LG)	036										
Harman Kardon	130	257	305	306							
Hitachi	240										
Jensen	140										
JVC	114	241									
Kenwood	063	277	444								
LG (Goldstar)	036										
Luxman	281										
Magnavox	080										
Marantz	282	283	284	285							
NAD	286										
Onkyo	126	171	304								
Optimus	142	229	321								
Panasonic	032	074	438	441							
Parasound	323										
Philips (Magnavox)	080		0=4								
Pioneer	123	137	251	298							
Quasar	032	007									
Radio Shack	229	267									
RCA	439	000									
Realistic	226	268									
Rotel	310										
Sansui	283										
Sanyo	195										
Scott	272										
Sharp	294	007									
Sherwood	229	267	000	007	442						
Sony	041	057	232	287	442						
Soundesign SSI	083 313	880	239	265							
Taekwang Teac	142	316									
Technics	314 032	310									
Wards	063										
vvalus	003										

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Victor	114	241			
Yamaha	145	254	303		
Zenith	036	083	088	239	265

7. 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.
DVD	TV (default), Cable or Audio.
AUDIO	Audio (default), Cable or TV.

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

- 1. Press [CABLE], then [OK / SEL] together hold both buttons down until the [CABLE] button lights up.
- 2. Press [VOL ▲], then [CABLE] for cable volume. The [CABLE] button will blink and go out.

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

8. Your Remote's SmartKeys™

Your remote has two (2) SmartKeys™ - [CABLE] and [TV], that operate in its <u>cable</u> mode. Each SmartKey™ can be programmed to transmit multiple functions.

Programming and using the [CABLE] SmartKey™

The [CABLE] button normally turns on / off your cable settop terminal. To program the [CABLE] button to transmit multiple pre-programmed functions, follow the steps below:

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

2. Press [CABLE], then [MENU] together - hold both buttons down until the [CABLE] button lights up.

3. Press the option number below for the desired functions:

Option Pre-Programmed to turn on...

Option	1 Te-1 Togrammed to turn on
[1]	Cable & TV - tune TV to Ch 3
[2]	Cable & TV - tune TV to Ch 2
[3]	Cable & TV - tune TV to Ch 4
[4]	Cable, TV & VCR - tune TV to Ch 3
[5]	Cable, TV & VCR - tune TV to Ch 2
[6]	Cable, TV & VCR - tune TV to Ch 4
8	
. [7]	Cable, TV, VCR & AUDIO - tune TV to Ch 3
[8]	Cable, TV, VCR & AUDIO - tune TV to Ch 2
[9]	Cable, TV, VCR & AUDIO - tune TV to Ch 4
[A]	Cable, TV, VCR, AUDIO & DVD - tunes TV to Ch 3
[B]	Cable, TV, VCR, AUDIO & DVD - tunes TV to Ch 2
[C]	Cable, TV, VCR, AUDIO & DVD - tunes TV to Ch 4
[0]	Cable box only (default)
12	

4. The [CABLE] button will blink and go out, storing the selected option

Programming and using the [TV] SmartKey™

The [TV] button normally turns on / off your TV. To program the [TV] button to transmit multiple pre-programmed functions, follow the steps below:

- 1. Press [DEVICE], then [CABLE] to select the cable mode of your remote
- 2. Press [TV], then [MENU] together hold both buttons down until the [TV] button lights up.
- 3. Press the option number below for the desired functions:

Option	Pre-Programmed to turn on
[1]	TV - tune TV to Ch 3
[2]	TV - tune TV to Ch 2
[3]	TV - tune TV to Ch 4
[0]	TV only (default)

4. The [TV] button will blink and go out, storing the selected

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.

9. Code Number Read Back

To identify the 3-digit setup codes stored under the Point and Press® programming method, follow these steps:

To identify the TV setup code...

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

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

To identify the 3-digit VCR code, press [VCR], then [OK / SEL] in step 1, then press [INFO].

To identify the 3-digit DVD code, press [DVD], then [OK / SEL] in step 1, then press [INFO].

To identify the 3-digit AUDIO code, press [AUDIO], then [OK / SEL] in step 1, then press [INFO].

10. Mode Lock™

Your RT-U50 remote comes locked in its cable operating mode. While locked in its cable mode, it can control all cable set-top operations, as well as power on your TV, VCR. DVD and AUDIO devices.

To operate more functions on your TV, VCR, DVD and AUDIO devices, you can unlock the remote as follows:

- 1. Press [CABLE], then [MUTE] together hold both buttons down until the [CABLE] button lights up
- 2. Press [9, 9, 9]. The [CABLE] button will blink and go out.

To lock your remote back in its cable operating mode...

- 1. Press [CABLE], then [MUTE] together hold both buttons
- 2. Press [0, 0, 0]. The [CABLE] button will blink and go out.

11. [A], [B], [C] Channel Memory Buttons

down until the [CABLE] button lights up.

Your remote has 3 buttons ([A], [B], [C]) which may be preprogrammed to channels or functions selected by your cable operator. If these buttons have not been set by your cable operator, they can be programmed to store up to 5 cable channels. Each cable channel can be up to 5-digits.

Programming [A], [B], [C] Buttons

To program the [A] button to cable channels 1, 12, 123, 231 and 17, follow these steps:

1. Press [A], then [CABLE] together until [CABLE] lights up.

2. Enter each channel as follows:

- a. Enter 1st channel # 001.
- b. Press [CH ▲] to advance to next channel # setting. c. Enter 2nd channel # - 012.
- d. Press [CH ▲] to advance to next channel # setting.
- e. Enter 3rd channel # 123. f. Press [CH ▲] to advance to next channel # setting.
- q. Enter 4th channel # 231.
- h. Press [CH ▲] to advance to next channel # setting. i. Enter 5th channel # - 017.
- 3. Press [A] to store the above channels. The [CABLE] button will blink 3-times and go out. To store fewer than 5 channels, you can press the [A] button any time after entering a complete channel number
- 4. Repeat the above steps to program the [B] and [C] buttons. Follow the example in step 1, but press [B] or [C] + [CABLE] together until the [CABLE] button lights up.

Using [A], [B], [C]

Using the above programmed channels as an example...

1. Press [A] - Cable terminal tunes to channel 001.

- 2. Press [A] again Cable terminal tunes to channel 012. 3. Press [A] again - Cable terminal tunes to channel 123.
- 4. Press [A] again Cable terminal tunes to channel 231.
- 5. Press [A] again Cable terminal tunes to channel 017.
- 6. Press [A] again Cable terminal tunes to channel 001. ...repeat.

Whenever a Channel Memory button is pressed, the function of the transport buttons will automatically switch back to Cable.

When pressing the [A], [B], or [C] buttons, be sure to keep the remote control aimed at your Cable Set-Top Terminal to ensure the full channel numbers are transmitted and received in their entirety

12. Resetting Your Remote Control

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

- 1. Press [CABLE], then [OK / SEL] together hold both buttons down until the [CABLE] button lights up.
- 2. Press [MENU], then [MENU] again.
- 3. [CABLE] button will blink and go out.

13. [TV/VCR/BYPASS] Button

This button changes the input source of your electronic

devices. In the remote's Cable mode, this operates the Cable BYPASS function. In the remote's TV mode, this button changes the Input Source (Input 1, Input 2...) on your TV. In the remote's VCR mode, this button changes the Input source (TV / VCR) on your VCR.

You can program this button so that in the remote's cable mode, [TV / VCR / BYPASS] will operate the TV Input source

on your TV, or the TV / VCR function on your VCR, eliminating the need to change modes on the remote.

To program [TV / VCR / BYPASS] to operate your TV Input function in the remote's cable mode...

1. Press [TV / VCR / BYPASS], then [OK/SEL] together until

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the [CABLE] power / mode button illuminates.

2. Press [TV]. The [CABLE] button will blink and go out. Note: You can also press [VCR] in step 2 above to operate the TV / VCR function on your VCR. Or press [CABLE] to return to the normal Cable BYPASS function.

14. Additional Programming Information, Troubleshooting, Tips

Additional Programming Information

- 1. The power / mode buttons will illuminate in slow-rotation (i.e. CABLE \rightarrow TV \rightarrow VCR \rightarrow DVD \rightarrow AUDIO \rightarrow CABLE...) while the remote is in a programming mode. In the absence of a keypress entry, the power / mode buttons will stop illuminating after 45-seconds and the remote will exit the programming mode.
- 2. When programming the remote control using the [CH ▲] or [CH ▼] buttons (Power function) in the Point and Press® Programming method, you may find a code that turns a device off but not back on. If this happens..
- a. The correct code has not been found as you may have a code that operates some but not all of the functions of your device. Continue pressing [CH ▲] until your device turns on.

OR

- b. You may have gone past the correct matching code. Try pressing [CH ▼] one press at a time until you find a code that turns your device back on.
- 3. When using the Point and Press® Programming method, you can also program your remote using buttons other than the [CH ▲] or [CH ▼] as described in Section 5 as
- a. [VOL ▲] to "go forward" through the codes using the "VOL A" function on your devices.
- b. [VOL ▼] to "go back" through the codes using the "VOL ▼" function on your devices.

Note: When you find the correct code, the volume of the device being programmed will increase or decrease.

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d. [▼] - to "go back" through the codes using the "CH ▼" function on your devices.

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Note: When you find the correct code, the channel of the device being programmed will increase or decrease.

- e. [>>] to "go forward" through the codes using the "Fast
- f. [◀◀] to "go back" through the codes using the "Rewind" function on your devices.

Note: When you find the correct code, the fast-forward or rewind function of the device being programmed will be performed. To simplify programming using these buttons, insert a VHS tape or DVD in the device being programmed.

You can also program your remote using the other available

- a. Press [OK / SEL], then [MUTE] together until the power / mode buttons illuminate in slow-rotation (i.e. CABLE → $TV \rightarrow VCR \rightarrow DVD \rightarrow AUDIO \rightarrow CABLE...)$
- b. In this order, carefully press [0], [0], [0], [CH ▲] and [VOL ▲]. The power / mode buttons illuminate in slow rotation (i.e. CABLE \rightarrow TV \rightarrow VCR \rightarrow DVD \rightarrow AUDIO → CABLE...).
- c. You can now program your remote using the [CH ▲/▼], [Vol ▲/▼],[FFWD], [REW], [PLAY], [STOP], [REC], [PAUSE], [LAST], [FAV], [0] - [9] buttons. When you find the correct code, the function associated with the selected button will be performed.
- 4. Your remote is equipped with 2 programming labels on the back of its case.
- a. Point and Press® Programming This will help you quickly program the remote without using codes.
- b. *Mode-Lock*™ Your model RT-U50 comes "locked" in its cable-operating mode. To operate more functions

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1. If the same button is pressed and held for 45-seconds, your

remote control will turn itself off automatically. This extends

the battery life should the remote become lodged under or

2. If you have a TV that's operated by remote control, it is

recommended that you plug it directly into a wall outlet

between heavy objects, for example sofa cushions.

c. [▲] - to "go forward" through the codes using the "CH ▲" on your TV, VCR, DVD and AUDIO devices, you can function on your devices. unlock your remote using the simple instructions on the back of your remote or refer to Section 10.

- Forward" function on your devices.
 - instead of the cable set-top terminal. 3. If you have any questions concerning the brand, model or operation of your cable set-top terminal, contact your cable

Troubleshooting / Tips

4. If the [DEVICE] button is not operating, the remote is in its locked mode. To set the remote to its unlocked mode, see Section 10.

Frequently Used Terms

Audio Devices - Audio receivers, amplifiers, CD players that you can program your remote to operate

Default Setting - How your remote is set when you receive it

from your cable operator. Electronic Components / Devices - The various electronic devices the remote is designed to operate. These include cable

set-top terminals, TVs, VCRs, DVDs, receivers, amplifiers and

Fast-Rotation - The power / mode buttons will illuminate in a fast sequence (i.e. CABLE → TV → VCR → DVD → AUDIO → CABLE...) repeated every 1/3 second. Fast-rotation occurs when the remote is receiving keypresses to program

Program (Setup) - The process of teaching your remote control to operate your electronic devices.

unlocking the mode of the remote control.

Mode - The device the remote is set to operate (ex. Cable,

TV, VCR, DVD, AUDIO). See Section 10 for locking and

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Transport Functions - These are the [Stop], [Play], [Fwd], [Rew], [Pause] and [REC] buttons. In the remote control's Cable mode, these buttons operate your Cable set-top features. However, by using the VCR / VOD / DVD toggle button, they can be set to operate the same functions on your VCR or DVD player.

Video Devices - VCR or DVD players.

Device Setup Codes

If you find that the setup codes listed above do not operate your devices, it is possible your remote was manufactured before the revision date printed on this Instruction Manual. If this occurs, contact your cable operator and request a newer version of your remote control.

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Slow-Rotation - The power / mode buttons illuminate in a slow sequence (i.e. CABLE \rightarrow TV \rightarrow VCR \rightarrow DVD \rightarrow AUDIO \rightarrow CABLE...) repeated every 1 second. Slow-rotation illumination occurs when the remote is in the programming mode, waiting for the next entry on the keypad of the remote.

TV Output Channel - The channel your TV needs to be set on for proper Cable reception (most often TV channel 3, but may be TV channel 2 or 4). If you have any questions concerning your TV output channel, contact your cable operator. Or, with your cable set-top terminal turned on, try setting your TV to channel 2, 3 or 4 to obtain a clear picture.

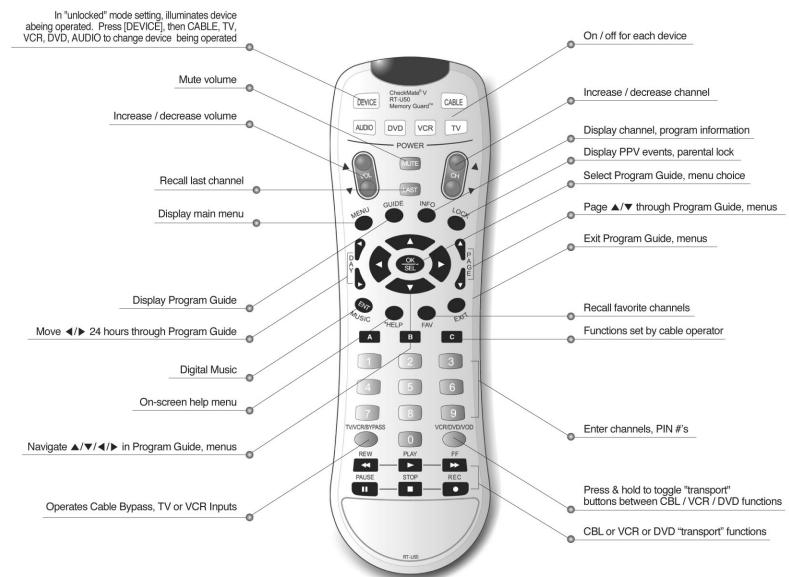
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U.S. Patent # 6,507,306

15. Using Your RT-U50 Remote Control



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