

CheckMate™ IV

Model RT-U49+

Digital Remote Control



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RT-U49+ - Overview

4 - Device Universal Remote Control

- CABLE - Digital, advanced-analog, analog**
 - Motorola DCT® / CFT® 2200 (default)
 - S-A, Pioneer, Tocom, Zenith
- TV**
- Video - VCR / DVD**
- Audio - receivers, amplifiers, 2nd TV, 2nd VCR / DVD**



RT-U49+ Programming

CheckMate™ IV remote can be programmed in 2 ways

□ Point and Press™ Programming

- Automated “search-type” method
- Press and hold [CH ^] until device turns off
- No need to remember codes
- Great for programming unknown brands
- Programming instructions on battery cover

□ Code Number Programming

- Enter multiple 3 – digit codes until device turns off
- Simpler, faster “code-entry” method than OEM models

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Programming Cable Set-Top Device

Only "code-entry"
programming will work
in programming your
cable set-top device...

**When programming cable set-top devices other than
Motorola DCT 2000 series and CFT2200**

1. Turn on cable set-top device
2. Press [DEVICE], then [MUTE] together until buttons light up (approx. 2 - 3 seconds)
3. Press [CABLE]. [CABLE] button will light up
4. Enter 3-digit setup code for cable set-top model
5. Press [CABLE] to lock in code. [CABLE] button will blink and go out

The next page will show you a list of codes for programming your cable set-top device

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Cable Setup Codes

MOTOROLA (GI)	DCT, CFT2200	001
	CFT2000, CFT2100, WNR	115
	HAMLIN	CR-6000
JERROLD	CRX-5000	055
	CR6600, CR6800, CR83	103
	DRZ	040
	DL4, DP(V) DQN(V), DPBB	101
	DRX	113
OAK / TOCOM	SIGMAONE P1, P2& P3, SIGMA2000, SIGMA 550	037
	RKDM, RTC56 053	
	SIGMA 2001 & 2002	105
	OTHERS	109
	SIGMA 450, 500, 550	110
	PANASONIC	RTC56, RKDM 112
PIONEER	140, 145, 170 & 175 Series	044
	110, 120, 130, 150, 160	047
	BC4100, 4200, 4500, 4600	
	BA5000, 6000	034
	BA-V1000 / 2000	120
	BA-9000	121
	VOYAGER	122
PRIMESTAR	DSS	009
REGENCY	ALL MODELS	057
SCIENTIFIC-ATLANTA	8600X	002
	8600	011
	8540, 8550, 8570, 8580	
	8590	042
	SA8500	046
TOCOM	EXPLORER	122
	5503VIP, & 5507, 5508	003
	5503A	039
ZENITH	MM2500	008
	OTHERS	033
	Z-TAC	108

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Programming TV

1. Turn on TV
2. Press [DEVICE], then [MUTE] together until buttons light up (approx. 2 - 3 seconds)
3. Press [TV]. [TV] button will light up
4. a. Press **& hold** [CH ^] until device turns off
Or
b. Press [CH ^] **one press at a time** until device turns off
Or
c. Enter 3-digit setup codes until device turns off
5. Press [MUTE]...
 - a. If TV turns on, press [TV] to lock in code. [TV] button will blink and go out
Or
 - b. If TV doesn't turn on, repeat steps 4 and 5 until TV turns on and off. Can also press [CH v] one press at a time until TV turns on and off

The next page will show you a list of codes for programming your TV

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TV Setup Codes

A MARK 112 143
ADMIRAL 072 081 160 161
AKAI 001 146
AMPRO 073 167
ANAM 043 054 056 080 112 131 055
AOC 058 001 004 112
AUDIOVOX 076
CANDLE 001 002 003 004
CAPEHART 058
CETRONIC 043
CITIZEN 001 002 003 043 101 143 004 103
CLASSIC 043
CONCERTO 004
CONTEC 043 051
CORONADO 143
CRAIG 054 043
CROWN 143 043
CURTIS MATHES 001 004 101 143
CXC 043
DAEWOO 004 016 017 043 044 055 071 076
 103 107 111 114
 120 123 125 127 136 143
DAYTRON 004 143
DYNASTY 043
DYANTECH 062
ELECTROHOME 024 076 143
EMERSON 004 005 028 043 051 076 096
 143 151 153 154 155
FISHER 007 057
FUNAI 028 043
FUTURETECH 043
GE 001 073 130 144 160 161 004 008
 009
 034 056 074 091 155
GOLDSTAR 004 106 119 110 112 113 127 143
HALLMARK 004
HITACHI 011 163 004 007 072 010 012 023
 075 143 158
INFINITY 164
INKEL 129

JBL 164
JCP 001
JCPENNY 004 008 009 024 030 065 101
 143 156 160
JENSEN 013
JVC 038 070 034 083
KENWOOD 001 070
KLOSS 002 059
KTV 001 043 143 154
LOGENET 072
LOGIK 072
LUXMAN 004
LXI 007 015 052 081 160 164
MAGNAVOX 001 003 004 022 059 060 161
 063 064 094 127 160 164
MARANTZ 164 001
MATSUI 164
MEMOREX 004 007 072
METZ 088
MGA 024 001 004 042
MINERVA 088
MITSUBISHI 024 004 028 040 042 109
 124 146
MTC 001 004 062 101
NAD 015 025
NEC 001 130 134 040 056 007
 019 024
NIKEI 043
ONKING 043
ONWA 043
OPTONICA 019 08
PANASONIC 034 056 080 164
PHILCO 001 003 004 024 056 059 060
 063 064 127 143 164
PHILIPS 164 005 038 093 127 001
 003 004 059
PIONEER 023 025 135 176 001 004 018
PORTLAND 004 143
PROSCAN 144 160 161 167
PROTON 004 058 131 143 171 173 193



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TV Setup Codes - Continued


QUASAR	034 056	TELERNET	072
RADIO SHACK	004 019 043 127 143	TERA	172
RCA	161 144 160 156 065 001 004	TMK	004
	023 024 056 074 152	TOSHIBA	015 030 007 040 062 101
REALISTIC	007 019	TOTEVISION	143
RUNCO	072 169 073 130 179 180 181	UNIVERSAL	008 009
SAMPO	001 004 058	VIDEO CONCEPTS	146
SAMSUNG	004 101 127 133 143 160 089	VIDIKRON	174 188
	105	WESTING HOUSE	076
SANYO	007 053 057 082 020 021 033	VIDTECH	004
SCOTT	004 028 043 048 143	WARDS	004 064 008 009 019 028 060 061
SEARS	004 007 015 028 030 057 082		063 072 074 143
	094 143 160	YAMAHA	001 004
SELECO	189	YORK	004
SHARP	081 014 019 028 004 022 143	YUPITERU	043
	175 029 181	ZENITH	072 073 095 103
SIGNATURE	072	ZONDA	112
SONY	070 085 126 139		
SOUNDESIGN	003 004 028 043		
SPECTRON	112		
SSS	004 043		
SUPRE MACY	002		
SYLVANIA	001 003 044 059 060 063 064		
	127 160 164		
SYMPHONICS	052		
TANDY	081		
DTATUNG	056 062		
TETNICS	034 080		
TECHWOOD	004		
TEKNIKA	002 003 004 024 028 043		
	101 143		



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Programming Video (VCR / DVD)

1. Turn on VCR or DVD
2. Press [DEVICE], then [MUTE] together until buttons light up (approx. 2 - 3 seconds)
3. Press [VIDEO]. [VIDEO] button will light up
4. a. Press & hold [CH ^] until device turns off
Or
b. Press [CH ^] one press at a time until device turns off
Or
c. Enter 3-digit setup codes until device turns off
5. Press [MUTE]...
 - a. If VCR / DVD turns on, press [VIDEO] to lock in code. [VIDEO] button will blink and go out
Or
 - b. If VCR / DVD doesn't turn on, repeat steps 4 and 5 until VCR / DVD turns on and off. Can also press [CH v] one press at a time until VCR / DVD turns on and off



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VCR / DVD Setup Codes

AIWA	034 161	MARANTZ	067 069 012 031
AKAI	043 046 124 142 146	MARTA	101
AMPRO	072	MATSUI	027 030
ANAM	031 103	MEI	031
AUDIO DYNAMICS	012 023 043	MEMOREX	040 101 001 014 031 034 053
BROKSONIC	035 037 129	072 134 139	
CANON	028 031	MGA	045 046 059
CAPEHART	108	MINOLTA	004 020
CRAIG	001 040 135	MITSUBISHI	059 061 051 142 004 046 020
CURTIS MATHES	031 041	045 227	
DAEWOO	005 108 111 117 017 065 007 010	MTC	034 040
DAYTRON	108	MULTITECH	024 034
DBX	012 023 043	NEC	012 023 043 048
DENON	226 240	NORMENDE	043
DYNATECH	034 053	OPTONICA	053 054
ELECTROHOME	059	PANASONIC	031 070 133 140 163 228 242
EMERSON	006 029 035 037 129 153 017 025	PENTAX	004 020 031 063
027 031 034 036 046 101 131 138		PHILCO	031 034 067
FISHER	001 010 008 009	PHILIPS	031 034 054 067 101 150
FUNAI	034	PILOT	101
GE	031 072 144 147 063 107 109 243	PIONEER	021 004 048 229
GO VIDEO	132 155 040 136	PORTLAND	108
GOLDSTAR	101 004 012 020	PROCAN	230
HARMAN KARDON	012 045	PULSAR	072
HITACHI	004 026 034 043 063 137 150	QUARTZ	014
INSTANTREPLAY	031	QUASAR	031 070 133 140 163 014
JCL	031	RADIO SHACK	101
JCPENNY	004 012 031 040 101	RCA	107 109 144 041 031 004 020
JENSEN	043	034 040 140 147 158 231 243	
JVC	048 043 055 060 130 150 152 012 031	REALISTIC	001 008 010 014 031
	238 241	034 040 053 054 101	
KENWOOD	014 034 048 150	RICO	058
LG	235 247	RUNCO	072
LLOYD	034	SALORA	014
LXI	001 009 017 034 101 004 106	SAMSUNG	040 017 107 109 113 115 124
MAGIN	040	122 236 248	
MAGNAVOX	067 031 034 068 041 156 170 237	SANSUI	043 048 135
		SANYO	001 014 040 134
		SCOTT	017 037 129 131

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VCR / DVD Setup Codes - Continued

SHARP	031 053 054 159
SHINTOM	024
SONY	056 057 058 001 052 053 031 009 154 171 077 232 244
SOUNDESIGN	034
STS	004
SYLVANIA	031 034 059 067
SYMPHONIC	034
TANDY	010 034
TATUNG	043
TEAC	034 043
TECHNICS	031 070
TEKNIKA	031 034 101
THOMAS	034
TMK	006
TOSHIBA	017 131 004 008 059 082 150 233 245
TOTEVISION	040 101
UNITECH	040
VECTOR RESEARCH	012
VICTOR	048
VIDEO CONCEPT	012 034 046 141
VIDEOSONIC	040
WARDS001	004 017 024 031 034 040 053 054 131
YAMAHA012	034 043 234 246
ZENITH	072 034 056 058 048 080 101 153 247



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Programming TV / VCR Combination Units

Only "code-entry"
programming will work in
programming your VCR of
your TV/VCR unit...

1. First, program the RT-U49+ for TV
 - a. Follow the programming steps for TV (either Point & Press™ or code-entry method will work)
 - b. Find a TV setup code that operates the TV functions of the TV / VCR unit
2. Then, program the RT-U49+ for VCR
 - a. Follow the programming steps for Video devices (only code-entry method will work)
 - b. Individually enter, lock and test each 3-digit VCR setup code until a code is found that operates the VCR functions of the TV / VCR unit

To verify you have entered the correct VCR code – insert a video tape into the TV / VCR unit and test the different functions of the VCR

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Programming Audio

1. Turn on Audio device
2. Press [DEVICE], then [MUTE] together until buttons light up (approx. 2 - 3 sec.)
3. Press [AUDIO]. [AUDIO] button will light up
4. a. Press & hold [CH ^] until device turns off
Or
b. Press [CH ^] one press at a time until device turns off
Or
c. Enter 3-digit setup codes until device turns off
5. Press [MUTE]...
 - a. If Audio turns on, press [AUDIO] to lock in code. [AUDIO] button will blink and go out
Or
b. If Audio device doesn't turn on, repeat steps 4 and 5 until Audio device turns on and off. Can also press [CH v] one press at a time until Audio device turns on and off

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Programming Audio

For a 2nd TV,
VCR or DVD...

1. Turn on 2nd TV
2. Press [DEVICE], then [MUTE] together until buttons light up (approx. 2 - 3 sec.)
3. Press [AUDIO], then [TV]. [AUDIO] & [TV] buttons will blink
4. a. Press & hold [CH ^] until 2nd TV turns off
Or
b. Enter 3-digit setup codes until 2nd TV turns off
5. Press [MUTE]...
 - a. If 2nd TV turns on, press [AUDIO] to lock in code. [AUDIO] button will blink and go out
Or
 - b. If 2nd TV doesn't turn on, repeat steps 4 and 5 until 2nd TV turns on and off. Can also press [CH v] one press at a time until 2nd TV turns on and off

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Audio Setup Codes

ADC	200	INKEL	005
ADCOM	072 082 092 161	JCPENNY	102 204
AIWA	025 071 091 100 104	JENSEN	058
	114 170 171	JVC	013 163 177 178
AKAI	093 138	KENWOOD	005 026 057 086 095 154 166
AMC	125 126 127	KOSS	102
ANGSTROM	142	KRELL	150
ARCAM	141	KYOCERA	200
AUDIO ACCESS	147	LEXICON	120 167 171 172
AUDIO ALCHEMY	135	LINN	124
AUDIO FILE	203	LUXMAN	004 029 035 137 139 165
AUDIO MATRIX	077	LXI	204
AUDIO TECHNICA	134	MAGNAVOX	043 152 164 191
B & K	096 097	MARANTZ	027 028 048 063 090 191
BOSE	070 113 170	MCINTOSH	173
BRYSTON	015	MCS	204
CARVER	003 008 014 016 027 028	MERIDIAN	009 051 121
	040 061 090 099 151 203	MITSUBISHI	180
CASIO	204	MONDIAL	022 023 042 073 075
CHIRO	140	NAD	048
CINEMA SOUND	001 134	NAKAMICHI	079 087 111 182 183
CITATION	148	NEC	080
CLARION	026	ONKYO	001 012 030 041 044 046 081
CURTIS MATHES	204		103 107 108
DENON	001 056 105 119 151 155	OPTIMUS	017 026 036 138
	188 199	PANASONIC	007 088 129 130 132 195
ENLIGHTENED AUDIO	049 050	PHILIPS	063 188 189 191
FISHER	151	PIONEER	001 039 045 054 069 078 128
FOSGATE	062 157		158 168
GOLDSTAR	006 072	PROCEED	144
HARMON KARDON	060 064 066 115 153	RCA	010 067 117 15
	157 162	REALISTIC	019 034 037 047
HITACHI	020	ROTEL	074 083 085
		SAMSUNG	123



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Audio Setup Codes - Continued

SANSUI	032 063 110 116
SANYO	151
SCOTT	019
SEARS	204
SHARP	026 057 094 175
SHERWOOD	024 038
SONY	011 018 052 053 055 084 089 112 186 187
SOUNDESIGN	036
SSI	068
TAEKWANG	138
TEAC	019 059 109 111
TECHNICS	076 080 088 098 122 193
THETA DIGITAL	065
TOSHIBA	033 131
YAMAHA	002 021 026 031 067 101 118 192
ZENITH	106 143

Digital Music Converter Setup Codes

DMX-DJ	254
MAESTRO II	255

Laser Disc Setup Codes

CALIFORNIA AUDIO	241
DAEWOO	231
DENON	237 250 251
DMX-DJ	25
FISHER	241
GOLDSTAR	234
KENWOOD	232
MAESTRO II	255
MAGNAVOX	233 247
MITSUBISHI	247
NAD	247
OPTIMUS	239
PANASONIC	228 241 243
PHILIPS	233
QUASAR	241
PIONEER	227 245 247
RCA	238
REALISTIC	239
SAMSUNG	230 236
SHARP	232 235
SONY	229
TECHNICS	228 241 243
TOSHIBA	232
YAMAHA	240 242 249



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Volume Control Options


- CABLE mode – Cable (default), TV or audio
- TV mode – TV (default), cable or audio
- VIDEO mode – TV (default), cable or audio
- AUDIO mode – Audio (default) or cable



Programming Volume Control

To control volume / mute through the TV
in the remote's CABLE mode (default setting)...

1. Press [DEVICE], then [MUTE] together until buttons light up (approx. 2 - 3 seconds)
2. Press [CABLE]. [CABLE] will light up
3. Press [VOL ^], then [TV]
4. The [CABLE] button will blink and go out



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Programming Volume Control

To return volume / mute control back to the converter in the remote's CABLE mode...

1. Press [DEVICE], then [MUTE] together until buttons light up (approx. 2 - 3 seconds)
2. Press [CABLE]. [CABLE] will light up
3. Press [VOL ^], then [CABLE]
4. The [CABLE] button will blink and go out



SmartKeys™

- [CABLE], [TV], [BYPASS]**
- User-programmable**
- Can transmit up to 8 functions in addition to its normal function**
- Reduce button presses**
- Simplify operation**




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Programming SmartKeys™

To program [CABLE] Smartkey™ to turn on the cable set-top device and TV, then tune the TV to output CH 3

1. Press [DEVICE], then [CABLE] to select cable mode
2. Press [CABLE], then [SELECT] together until [CABLE] button lights up (approx. 2 - 3 seconds)
3. In this order press [TV], [DEVICE], [TV], [0], [3] (may be 2 or 4)
4. Press [CH ^] to store the setting
5. The [CABLE] button will blink and go out



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Single-Touch Power Buttons

□ [CABLE], [TV], [VIDEO], [AUDIO]

- On / off for each device
- Illuminate during operation
- Indicate battery condition
- [CABLE], [TV] are SmartKeys™



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Device Button

- ❑ **What the [DEVICE] button does...**
 - **Illuminates current operating mode**
 - **Allows mode changes when necessary**
 - **Helps minimize “unintentional” mode changes**
 - **Illuminated button indicates battery condition**
 - **Great for customer-service troubleshooting**



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VCR / VOD Toggle Button

- ❑ **What the [VCR / VOD] button does...**
 - **Switches operation of “transport” buttons (play, stop, ff, rew...) between cable “video-on-demand” (VOD) and VCR functions**

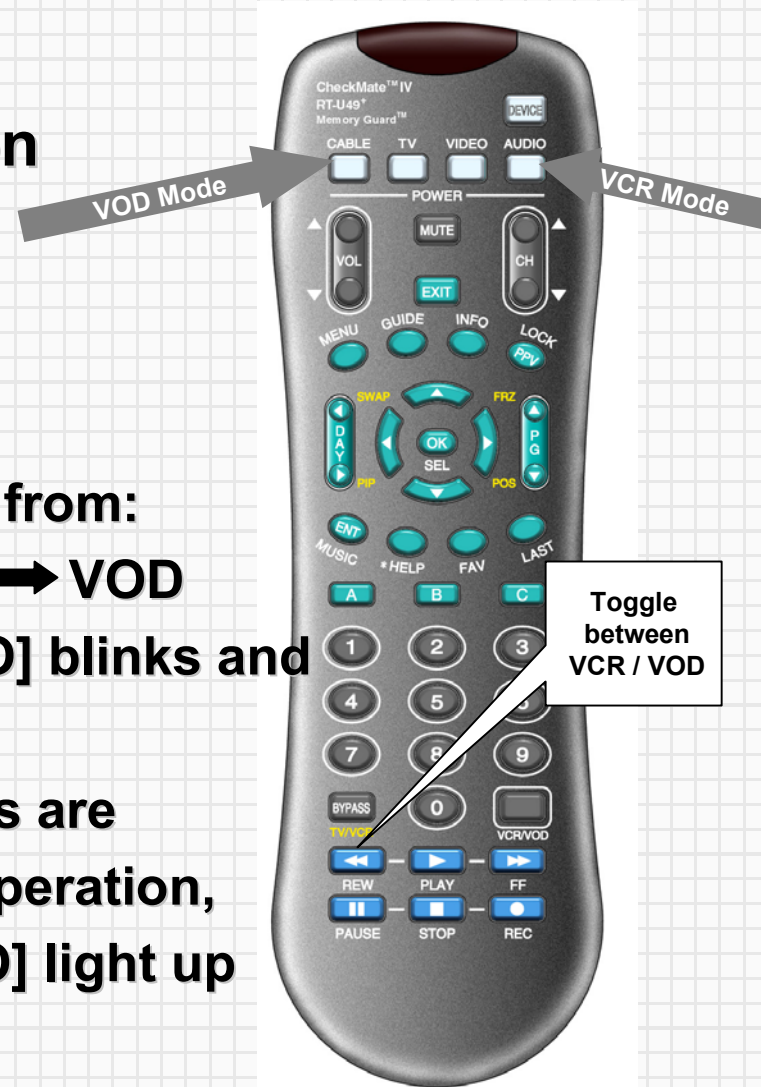
- ❑ **How the [VCR / VOD] button works...**
 - **Press [VCR] / [VOD] for current operation of “transport” buttons. If ...**
 - [CABLE] lights up – transport buttons support VOD**
 - [VIDEO] lights up – transport buttons support VCR**



VCR / VOD Toggle Button

- ❑ While current function illuminated, press VCR / VOD again ...


- Transport buttons switch from:
VOD ➡ VCR or VCR ➡ VOD
- Either [CABLE] or [VIDEO] blinks and goes out
- When “transport” buttons are pressed during normal operation, either [CABLE] or [VIDEO] light up



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Operating Cable Set-Top and TV

- ❑ First, turn on your devices....
 - Press [CABLE], then [TV] (or [TV] then [CABLE]) to turn on only the cable set-top device & TV
 - The order these buttons are pressed does not change the mode of the remote
- ❑ Then, press [DEVICE], then [CABLE] to select remote's cable mode
- ❑ To also turn on your VCR, press [VIDEO], then press VCR button functions



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Memory Guard™

- ❑ **Eliminates reprogramming after battery changes provided new batteries are installed within 6 hours (preferably 4 hours) of removal of old batteries**



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General Reset

❑ Resets remote to default settings...

1. Press [SEL / OK], then [LAST] together until buttons light up (approx. 2 - 3 seconds)
2. [CABLE], [TV], [VIDEO] and [AUDIO] buttons blink in sequence two times
3. Restores all codes and features to defaults



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Time Out

- Remote automatically shuts off if same button is pressed and held for 45 seconds
- Extends battery life



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Code # Read-Back

- ❑ Remote will “read-back” the 3-digit setup code stored for each device

- ❑ To “read-back” the TV setup code...
 1. Press [DEVICE], then [MUTE] together until buttons light up (approx. 2 - 3 seconds)

 2. Press [TV], then [INFO] and count the number of blinks of the [TV] button

 3. Ex 10 blinks, then 3 blinks, then 5 blinks = “035”