

CheckMate™ IV

Model RT-U49E

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-U49E, universal remote control is simple to program, easy to use, and can operate up to four (4) electronic devices, which include:

CABLE	Cable television converters
TV	Televisions
VIDEO	VCR, DVD players
AUDIO	Audio-video (A/V) receivers Laser Disk (LD) players DMX & DCR Digital Music Converters

Your remote control is pre-programmed to operate the Scientific-Atlantra Explorer® and Pioneer Voyager® digital converters. However, it must be programmed (set-up) to operate your TV, VCR and AUDIO 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.

2. Before Getting Started

Some of the special features on your remote control are:

Cable Pre-Programmed

Your remote control is pre-programmed to operate the Scientific-Atlantra Explorer® and Pioneer Voyager® digital converters. If you are operating either of these converters, no cable programming is necessary.

Point and Press™ Programming

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

SmartKeys™

Program multiple button presses on the [CABLE], [TV], and [BYPASS] buttons. For more information, see section 13.

[DEVICE]

This button lets you select the operating mode of the remote control.

Press [DEVICE] and the current mode button will

illuminate. While the current mode button is illuminated, press one of the other non-illuminated mode buttons to operate a different device.

Memory Guard™

Eliminates reprogramming after battery changes provided new batteries are installed within 4 hours of removal of old batteries.

3. Installing / Replacing Batteries

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

When the batteries become too weak to operate the remote control properly, the mode keys will become dim or not illuminate at all during use. When this happens, install 2 new "AAA" size batteries.

Your remote control has Memory Guard™, which eliminates reprogramming after battery changes provided new batteries are installed within 4 hours of removal of old batteries.

4. Programming Your Cable Converter

Your remote control is pre-programmed to operate the Scientific-Atlantra Explorer® and Pioneer Voyager® digital converters. If you are operating either of these converters, no cable programming is necessary - proceed to section 5.

If you need to operate another converter, 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 converter...

1. Turn on your cable converter.
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, 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.

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 converter.

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 will illuminate.
4. a. Press and hold [CH π] until your TV turns off. As soon as your TV turns off, release [CH π].
OR
b. From the TV Setup Code list, locate and enter the 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 doesn't turn back on, repeat steps 4 and 5 above until you can turn your TV off and on.

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, you may have gone past the correct matching code. Try pressing [CH θ] one step at a time until you find a code that turns your TV back on.

6. Programming Your VCR or DVD Player

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 will illuminate.

4. a. Press and hold [CH π] until your VCR or DVD turns off. As soon as your VCR or DVD turns off, release [CH π].
OR
b. From the VCR or DVD Setup Code list, locate and enter the 3-digit codes until your VCR or DVD player 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 2 times 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 _____

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 θ] one step at a time until find a code that turns your VCR or DVD back on.

7. Programming Your Audio Device

To program (setup) your audio-video receiver, laser-disk player, or digital music converter....

1. Turn on your audio-video receiver, laser-disk player, or digital music converter.
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 will illuminate.
4. a. Press and hold [CH π] until your audio device turns off. As soon as your audio device turns off, release [CH π].
OR
b. From the Audio Setup Code list below, locate and enter the 3-digit codes until your 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 2 times and go out.

If your audio device doesn't turn back on, repeat steps 4 and 5 above until you can turn your audio / auxiliary device

off and on.

Audio brand & setup code _____
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 θ] one-step at a time until find a code that turns your device back on.

8. Operating Your Converter

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

To select your remote's CABLE mode and operate your converter, press [DEVICE] then [CABLE]. The [CABLE] button will blink 3 times. Then press...

[CABLE]	CABLE on / off.
[TV]	TV on / off.
[VIDEO]	VCR/ DVD on / off.
[AUDIO]	AUDIO on / off.
[CH π] / [CH θ]	Increases / decreases CABLE channel.
[VOL π] / [VOL θ]	Increases / decreases CABLE volume.
[MUTE]	Mutes CABLE volume.
[EXIT]	Exits on-screen menu, view guide, interactive guides
[SETTINGS]	Displays programs settings.
[GUIDE]	Displays interactive program guide.
[INFO]	Displays channel, time information.
[FAV]	View favorite channels.
[PG π] / [PG θ]	Page up / down through menus, view guide.
[VOD ⏮] / [VOD ⏭]	Rewind (⏮) or fast-forward (⏭) through a Video-on-Demand event.
[◀], [▶], [⏪], [⏩]	Navigate on-screen menus, program guide, PPV events and interactive services.
[SEL]	Chose menu options, interactive screen items.
[]	Pause a Video-on-Demand event.
[■]	Stop a Video-on-Demand event.
[●]	Record a Video-on-Demand event
[>]	Play a Video-on-Demand event.
[A], [B], [C]	On screen decision buttons.
[0] - [9]	Numeric entry buttons.
[BYPASS]	Switch between cable converter and TV.
[Last]	Last channel viewed.

In your remote's cable mode, you can also press the blue buttons at the bottom to operate your VCR's basic

functions...

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

9. Operating Your TV

Your remote control can operate many functions of your TV, including setup and picture-in-picture functions on most leading brands. These include RCA, ProScan, GE, Hitachi, Toshiba, JVC, Sharp, Panasonic, Zenith, SONY, Mitsubishi, Phillips, and Magnavox.

To select your remote's TV mode and operate your TV, press [DEVICE] then [TV]. The [TV] button will blink 2 times. Then press...

[TV]	TV on / off.
[CABLE]	CABLE on / off.
[VIDEO]	VCR / DVD on / off.
[AUDIO]	AUDIO on / off.
[CH π] / [CH θ]	Increases / decreases TV channels.
[VOL π] / [VOL θ]	Increases / decreases TV volume.
[MUTE]	Mutes TV volume.
[0] – [9]	Numeric entry buttons.
[SETTINGS] or [SEL]	Accesses TV's on-screen menus.
[BYPASS] / [TV/VCR]	Change TV's video inputs.
[>]	View last TV channel
[INFO]	Displays TV channels and time.
[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.
[II]	Press after 0-9 to change channels on some TV's
[C]	Sleep / timer functions.

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

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

10. Operating Your VCR or DVD Player

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

To select your remote's VIDEO mode and operate your VCR or DVD, press [DEVICE] then [VIDEO]. The [VIDEO] button will blink 3 times. Then press...

[VIDEO]	VCR / DVD power on / off.
[CABLE]	CABLE on / off.
[TV]	TV on / off.
[AUDIO]	Audio on / off.
[CH π] / [CH θ]	Increases / decreases VCR channels, or DVD skip "+ / -".
[0] – [9]	Enter VCR channels.
[BYPASS] / [TV/VCR]	Change VCR's video inputs.
[EXIT]	DVD clear functions.
[SETTINGS]	DVD menu functions.
[GUIDE]	DVD guide functions.
[INFO]	DVD program information.
[◀], [▼], [▶], [▲]	Navigate DVD menu.
[II]	DVD enter functions.
[A]	DVD subtitle on / off.
[>]	DVD return function.

In your remote's VIDEO mode, you can also press the blue buttons at the bottom to operate your VCR'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 Audio Device

Your remote control can also operate many functions of your audio-video receiver, laser disk player, or DMX / DCR digital music converter.

To select your remote's AUDIO mode and operate your video devices, press [DEVICE] then [AUDIO]. The [AUDIO] button will blink 2 times. Then press...

For Audio / Video (A / V) Receivers, press...

[AUDIO]	A/V receiver on / off.
[VOL π] / [VOL θ]	Increases / decreases volume.

[MUTE]	Mutes volume.
[CH π] / [CH θ]	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 Laser Disk players, press...

[AUDIO]	LD player on / off.
[CH π] / [CH θ]	LD >> or <<
[<<]	LD rewind.
[>]	LD play.
[>>]	LD fast-forward.
[II]	LD pause.
[■]	LD stop.
[●]	LD open / close.

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

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

12. Programming Volume Control

When you first program your remote, each device controls its own volume / mute.

To control volume / mute through your TV or Audio device 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 π], then [TV] for TV volume. Or [VOL π] then [AUDIO] for audio volume. The [CABLE] button will blink 2 times and go out.

To return volume control back to your converter, repeat steps

1. and 2. above, then press [VOL π], then [CABLE] in step 3.

To control volume / mute through your TV or Audio device in the remote's video mode...

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

13. Your Remote's SmartKeys™

Your remote is equipped with three (3) SmartKeys™ ([CBL], [TV], [BYPASS]) that operate in its cable mode.

Each SmartKey™ can be programmed so whenever it's pressed, it can transmit up to 8 individual button presses in sequence.

Programming and using the [CABLE] SmartKey™

The [CABLE] button normally turns on / off your cable converter.

You can program the [CABLE] SmartKey™ to turn on your converter, TV, VIDEO and AUDIO 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 [TV], [VIDEO], [AUDIO]. The [CABLE] button will blink and remain illuminated.
4. Press [CH π] to lock in this setting. The [CABLE] button will blink 2 times and go out.

To return the [CABLE] button to its normal default setting, repeat steps 1 and 2 above, then press [CH 0].

Programming and using the [TV] SmartKey™

The [TV] button normally turns on / off your TV.

You can program the [TV] SmartKey™ so whenever it is pressed, it will turn on your TV, then tune your TV to its correct

output channel (typically 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 [0], [3]. The [TV] button will blink and remain illuminated.
4. Press [CH π] to lock in this setting. The [TV] button will blink 2 times and go out.

To return the [TV] button to its normal default setting, repeat steps 1 and 2 above, then press [CH 0].

Programming and using the [BYPASS] SmartKey™

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

You can program the [BYPASS] SmartKey™ to automatically tune your TV to its correct output channel.

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 [DEVICE], [TV], [0], [3]. The [CABLE] button will blink and remain illuminated.
4. Press [CH π] to store the setting. The [CABLE] button will blink 2 times and go out.

To return the BYPASS SmartKey™ to its normal default setting, repeat steps 1 and 2 above, then press [CH 0].

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.

14. 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.

Here's an example of how you would program a second 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 π] until your 2nd TV turns off. As soon as your 2nd TV turns off, release [CH π].

OR

b. From the TV Setup Code list, locate and enter the 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 2 times 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.

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 0] 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.

15. Code Number Readback

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 converter 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.

16. Helpful Tips & Troubleshooting

- 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.
- 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 2 times and go off.

- 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...
 - the correct code has not been found. Continue pressing [CH π] until your devices turn on and off.
 - you may have gone past the correct matching code. Try pressing [CH 0] one step at a time until find a code that turns your converter back on.
- If you have any questions concerning the operation of your cable converter, contact your cable operator.

Cable Setup Codes

Manufacturer	Model	Code
PIONEER	BA-V1000 / 2000	120
	BA-9000	121
	VOYAGER	001
SCIENTIFIC-ATLANTA	EXPLORER	001

TV Setup Codes

Manufacturer	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
DYNATECH	062
ELECTROHOME	024 076 143
EMERSON	004 005 028 043 048 051 076
	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
HALL MARK	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	019 081
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
QUASAR	034 056
RADIO SHACK	004 019 043 127 143
RCA	161 144 160 156 065 001 004
	023 024 056 074 152
REALISTIC	007 019
RUNCO	072 169 073 130 179 180 181
SAMPO	001 004 058
SAMSUNG	004 101 127 133 143 160 089
	105
SANYO	007 053 057 082 020 021 033
SCOTT	004 028 043 048 143
SEARS	004 007 015 028 030 057 082
	094 143 160
SELECO	189
SHARP	081 014 019 028 004 022 143
	175 029 181
SIGNATURE	072
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
TATUNG	056 062
TETNICS	034 080
TECHWOOD	004
TEKNIKA	002 003 004 024 028 043 072
	101 143
TELERNET	072
TERA	172
TMK	004
TOSHIBA	015 030 007 040 062 101
TOTEVISION	143
UNIVERSAL	008 009
VIDEO CONCEPTS	146
VIDIKRON	174 188

WESTING HOUSE 076
 VIDTECH 004
 WARDS 004 064 164 008 009 019 028
 060 061 063 072 074 143
 YAMAHA 001 004
 YORK 004
 YUPITERU 043
 ZENITH 072 073 095 103
 ZONDA 112

MARANTZ 237
 MARTA 067 069 012 031
 MATSUI 101
 MEI 027 030
 MEMOREX 031
 040 101 001 014 031 034 053
 072 134 139
 MGA 045 046 059
 MINOLTA 004 020
 MITSUBISHI 059 061 051 142 004 046 020
 045 227
 034 040

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 CONCEPTS 012 034 046 141
 VIDEOSONIC 040
 WARDS 001 004 017 024 031 034 040
 053 054 131
 YAMAHA 012 034 043 234 246
 ZENITH 072 034 056 058 048 080 101
 153 247

VCR / DVD Player Codes

Manufacturer	Codes
AIWA	034 161
AKAI	043 046 124 142 146
AMPRO	072
ANAM	031 103
AUDIO DYNAMICS	012 023 043
BROKSONIC	035 037 129
CANON	028 031
CAPEHART	108
CRAIG	001 040 135
CURTIS MATHES	031 041
DAEWOO	005 108 111 117 017 065 007 010
DAYTRON	108
DBX	012 023 043
DENON	226 240
DYNATECH	034 053
ELECTROHOME	059
EMERSON	006 029 035 037 129 153 017 025 027 031 034 036 046 101 131 138
FISHER	001 010 008 009
FUNAI	034
GE	031 072 144 147 063 107 109 243
GO VIDEO	132 155 040 136
GOLDSTAR	101 004 012 020
HARMAN KARDON	012 045
HITACHI	004 026 034 043 063 137 150
INSTANTREPLAY	031
JCL	031
JCPENNY	004 012 031 040 101
JENSEN	043
JVC	048 043 055 060 130 150 152 012 031 238 241
KENWOOD	014 034 048 150
LG	235 247
LLOYD	034
LXI	001 009 017 034 101 004 106
MAGIN	040
MAGNAVOX	067 031 034 068 041 156 170

MTC 034 040
 MULTITECH 024 034
 NEC 012 023 043 048
 NORMENDE 043
 OPTONICA 053 054
 PANASONIC 031 070 133 140 163 228 242
 PENTAX 004 020 031 063
 PHILCO 031 034 067
 PHILIPS 031 034 054 067 101 150
 PILOT 101
 PIONEER 021 004 048 229
 PORTLAND 108
 PROCAN 230
 PULSAR 072
 QUARTZ 014
 QUASAR 031 070 133 140 163 014
 RADIO SHACK 101
 RCA 107 109 144 041 031 004 020
 034 040 140 147 158 231 243
 REALISTIC 001 008 010 014 031 034 040
 053 054 101
 058
 RUNCO 072
 SALORA 014
 SAMSUNG 040 017 107 109 113 115 124
 122 236 248
 SANSUI 043 048 135
 SANYO 001 014 040 134
 SCOTT 017 037 129 131
 SEARS 001 004 008 010 014 017 020
 081 101
 SHARP 031 053 054 159
 SHINTOM 024
 SONY 056 057 058 001 052 053 031
 009 154 171 077 232 244
 034
 SOUNDESIGN 004
 STS 004
 SYLVANIA 031 034 059 067
 SYMPHONIC 034
 TANDY 010 034
 TATUNG 043
 TEAC 034 043
 TECHNICS 031 070
 TEKNIKA 031 034 101

AUDIO Setup Codes

Manufacturer	Codes
ADC	200
ADCOM	072 082 092 161
AIWA	025 071 091 100 104 114 170 171
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