



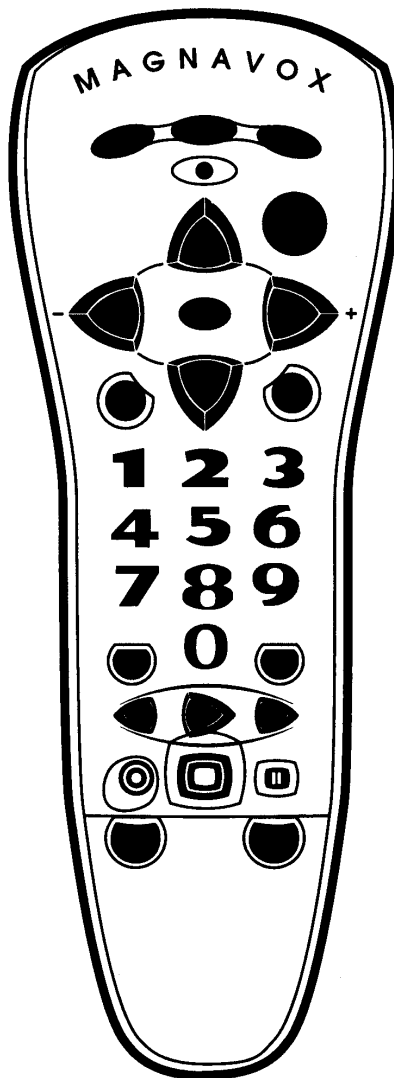
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Electronic Parts Distributor to the Service Industry

Universal Remote

REM 100



MAGNAVOX
Smart. Very smart.™

INTRODUCTION

Congratulations on your decision to make your life easier. You won't be searching for the "right" remote control anymore. By choosing to consolidate all of your remote controls into one, you can lose some household clutter and simplify the use of your entertainment system.

This REM100 remote control will operate your Television, Video Cassette Recorder, and Cable Converter Box. You only need to program the remote control to operate different brands of equipment. Follow the simple directions in this instruction sheet. Within a few minutes, you'll have the pleasure of operating all of your video equipment with one remote control. That will leave your other hand free to dip into the popcorn. Enjoy your new remote!

FEATURES

- Operates TV, VCR, and Cable Converter Box
- Controls basic functions, including Power, Channel selection, Volume, Play and Record
- Manual and Automatic Programming
- Sleep Timer
- Previous Channel Recall

BATTERY INSTALLATION

This remote control uses two AA batteries (not included). To install the batteries, follow these steps.

1. Remove the battery compartment cover from the back of the remote control.
2. Insert two AA batteries inside the battery compartment.
3. Replace the battery compartment cover.

NOTES

- Do not mix old and new batteries.
- Do not mix alkaline batteries and manganese batteries.
- If batteries are left out of the remote control for more than one minute, you may have to reprogram your remote.
- If the remote control is not operating your equipment from a normal distance, the battery power may be low. When the battery power is depleted, the remote control will not operate your equipment. Replace the batteries.

PROGRAMMING YOUR REMOTE CONTROL

There are two ways to program your remote control: Manually and Automatically.

Before you do anything, find the code for your brand of equipment (TV, VCR, or Cable Converter Box) on pages 6-12. TV codes are on pages 6-8, VCR codes are on pages 9-11, and Cable Box codes are on page 12.

MANUAL PROGRAMMING

To program your remote control manually, follow these steps.

1. Press and hold the SET button until the LED (Light Emitting Diode) stays on.
2. Press the button that represents your equipment (TV, VCR, or CBL). The LED will blink once.
3. Use the Number buttons to enter the three-digit code for your equipment. The LED will blink after each digit is entered.
4. Press the SET button. The LED will turn off when the remote control accepts the code.
5. If the remote does not recognize the code, the LED will flash for about three seconds. Repeat steps 1-4, using a different code.
6. After you have entered the code correctly, point the remote control at your equipment (TV, VCR, or Cable Box). Test the remote control buttons to make sure they operate your equipment. For example, press the POWER button to see if the power turns on. (Some equipment, particularly cable boxes, may only be turned on at the unit. This does not indicate a problem with your remote control.)

NOTES

- Press each button within 15 seconds of the previous entry. If you do not press any buttons for 15 seconds, the LED will blink rapidly and the remote will exit the programming mode.
- Your brand of equipment may have more than one code listed. Try each one until you find the one that operates your equipment. When you have finished programming your remote, press the POWER button to see if the remote operates your unit. If all the applicable buttons operate your unit, the remote control is programmed properly. If none of the buttons or only some of the buttons operate your equipment, reprogram the remote control using another code.

AUTOMATIC PROGRAMMING

The remote control may find the code for your equipment automatically.

1. Make sure your equipment is turned on.
2. Press and hold the SET button until the LED stays on.
3. Press the button that represents your equipment (TV, VCR, or CBL). The LED will blink once.
4. Press the CH(annel) UP button repeatedly until the channel changes on the equipment. If you accidentally pass the code, press the LAST button until your equipment changes channels again. (You may only go back one step. If you go beyond the code, you must start again at step 1.)
5. Press the ENTER button to memorize the code.

NOTE

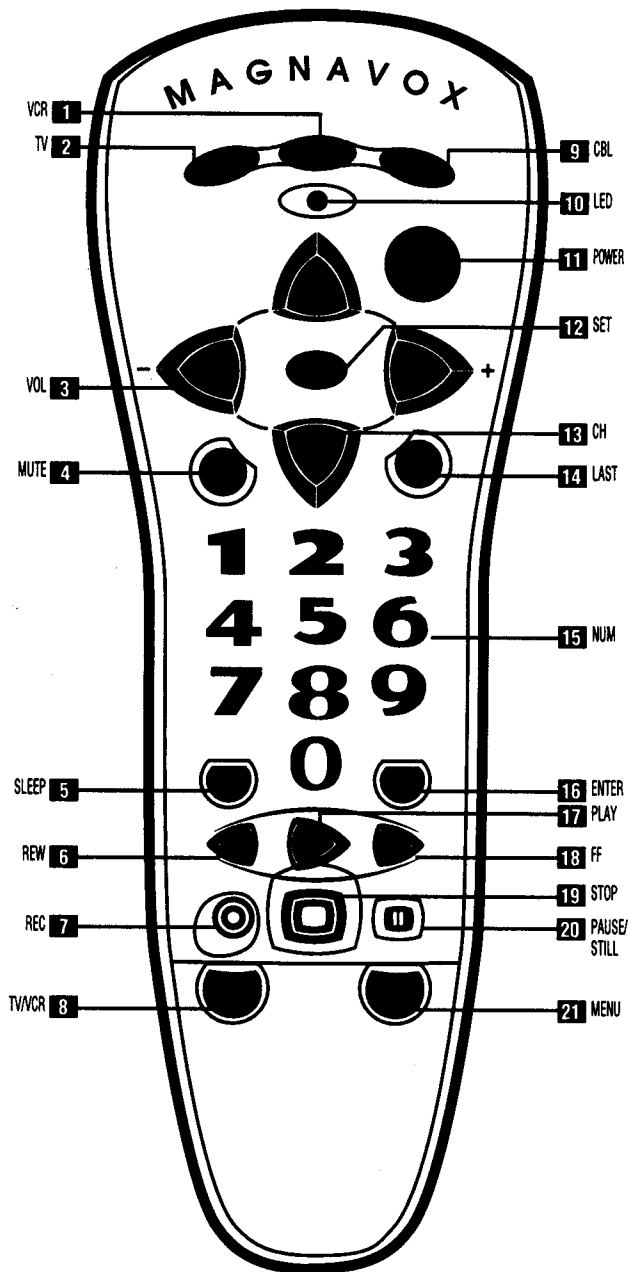
- If you press the TV button at step 3, the remote will search through the TV codes only. The same is true for the VCR and CBL buttons.

READING EQUIPMENT CODES

If you forget which code your equipment uses, or if you want to know which code the remote control found, you can read the code by following these steps.

1. Press and hold the SET button until the LED stays on.
2. Press the button that represents your equipment (TV, VCR, or CBL). The LED will blink once.
3. Press the SET button. The LED will blink once.
4. To find the first digit, press the Number buttons from 0-9. When the LED goes off briefly, this is the first digit.
5. To find the second digit, press the Number buttons from 0-9. When the LED goes off briefly, this is the second digit.
6. To find the third digit, press the Number buttons from 0-9. When the LED goes off, this is the third digit. The LED will stay off.

MAGNAX



NOTES

- It is possible that the remote will not operate all of the functions of your product. For example, not all Cable Boxes may be controlled with a remote control. Some Cable Boxes must be turned on at the unit.
- To operate each piece of equipment, you must first set the remote for the right equipment. For example, to operate the TV, first press the TV button. Then, you may use the other operation buttons for the TV, such as the POWER button or CH(annel) Up/Down buttons. You may operate all the TV controls until another equipment button (VCR or CBL) is pressed.
- You may use certain buttons without first pressing the equipment button. For example, if you are using the VCR, you may adjust the TV volume or mute the volume without pressing the TV button. This is also referred to as the Punch-through Feature. See page 5 for details.

1 VCR BUTTON

Press to have the remote control operate the features of your Video Cassette Recorder.

2 TV BUTTON

Press to have the remote control operate the features of your Television.

3 VOL(UME) UP/DOWN BUTTONS

Use these buttons to increase or decrease the volume of your TV.

4 MUTE BUTTON

Press this button to eliminate the sound of your TV. Press a second time to return to the previous volume level.

5 SLEEP BUTTON

Use this button when programming the remote to turn off your equipment within a certain amount of time, up to 99 minutes from the current time. Details are on page 5.

6 REWIND BUTTON

Press to rewind a tape.

7 RECORD BUTTON

Press twice to start a recording.

8 TV/VCR BUTTON

Press to select the signal that your TV receives when using a VCR with a TV. You may place the VCR in VCR position or TV position. See your VCR owner's manual for details on what features are available in each position.

9 CBL BUTTON

Press to have the remote control operate the features of your Cable Converter Box.

10 LED

The Light Emitting Diode flashes during programming. It also blinks each time you press a button on the remote control.

11 POWER BUTTON

Press this button to turn the equipment's power on or off. Some equipment, particularly cable boxes, may only be turned on at the unit. This does not indicate a problem with your remote control.

12 SET BUTTON

Use this button when programming the code for your equipment.

13 CH(ANNEL) UP/DOWN BUTTONS

Use these buttons to select channels of your TV, VCR, or Cable Converter Box. Also, use the CH(annel) Up button when automatically programming the remote control.

14 LAST BUTTON

When you are using the remote to operate a TV, VCR, or Cable Box, press this button to return to the previous channel you were viewing. This feature is only available with TV's, VCR's, and Cable Boxes that have this feature.

15 NUMBER BUTTONS

Use the Number buttons to select channels, to program codes, to read codes, or to set the Sleep Timer.

16 ENTER BUTTON

Use this button when automatically programming your remote and when setting the Sleep Timer.

17 PLAY BUTTON

Press to begin or resume tape playback.

18 FAST FORWARD BUTTON

Press to fast forward a tape.

19 STOP BUTTON

Press to stop tape playback, rewinding, fast forwarding, or recording.

20 PAUSE/STILL BUTTON

Press to pause recording momentarily. Press again to resume recording. During tape playback, press to freeze the picture. Press again to resume normal playback.

21 MENU BUTTON

The MENU button has the same function as the MENU button on your original Magnavox remote control.

SLEEP TIMER

You can program your remote control to turn off your TV, VCR, or Cable Converter Box within a certain amount of time, up to 99 minutes from the present time. You may only set the Sleep Timer for one piece of equipment at a time. (For example, you can not set the Sleep Timer for both your TV and your VCR.)

The Sleep Timer message will not appear on the TV screen (as it normally would if your TV has a Sleep Timer function).

To set the Sleep Timer, follow these steps.

1. Press the button that represents your equipment (TV, VCR, or CBL).
2. Press and hold the SLEEP button until the LED stays on.
3. Use two Number buttons to enter the amount of time in which you want the equipment to turn off. For example, if you want the equipment to shut off in eight minutes, press Number buttons 0, 8. You may set the Sleep Timer between one minute and 99 minutes. The LED will turn off. (If the remote control does not accept the time entered, the LED will flicker.)
4. Press the ENTER button.
5. Leave the remote control pointing toward the equipment. When the specified amount of time passes, the equipment will turn off.

NOTES

- Make each entry within 15 seconds of the previous entry. If you do not press the next button within 15 seconds, you will exit Sleep Timer mode.
- You must leave the remote control pointing toward the equipment so the equipment can receive the shut-off signal.
- To cancel the Sleep Timer, press the button that represents the equipment for which you set the Sleep Timer (TV, VCR, or CBL). Press and hold the SLEEP button until the LED flashes.
- You may also cancel the Sleep Timer by turning off the equipment manually. Press the button that represents the equipment for which you set the Sleep Timer (TV, VCR, or CBL). Then, press the POWER button.

PUNCH-THROUGH FEATURE

The REWIND, PLAY, FAST FORWARD, RECORD, STOP, and PAUSE buttons will always control the VCR, regardless of whether you are currently operating the TV, VCR, or Cable Box. You do not have to press the VCR button before pressing these function buttons.

The VOL(ume) +/- buttons and the MUTE button will always control the TV volume, regardless of whether you are currently operating the TV, VCR, or Cable Box. You do not have to press the TV button before pressing the VOL(ume) +/- or MUTE buttons.

TV CODES

You will need to program your remote control to operate the basic functions of your Television. Follow the steps in the Programming Your Remote section, entering the correct code for your brand of TV. Use these lists to find the code for your TV.

Admiral	092, 107	Emerson.....	019, 020, 022, 052,
Adventura.....	093		053, 082,
Akai.....	108		090, 095,
Alleron.....	146		096, 098,
Amstrad	106		114, 116,
Anam National.....	109, 138		123, 124,
AOC.....	014, 020,		125, 126,
	022, 095,		127, 128,
	110, 111		129, 133,
Belcor.....	020		137, 138,
Bell & Howell	107, 172		142, 143,
Brokwood.....	020		144, 145,
			146, 147,
Candle.....	014, 016,		148, 159,
	020, 021,		160
	022, 093	Envision	014, 020,
Celebrity.....	108		022
Centurion	022		
Citizen	014, 016,	Fisher	099, 149,
	020, 021,		150
	022, 034,	Fujitsu	146
	090, 093,	Funai	146
	096, 166		
Clairtone.....	095	GE	020, 022,
Colortyme	020, 022,		082, 083,
	112		084, 085,
Concerto	020, 022		086, 087,
Contec/Cony.....	095, 113,		100, 109,
	114, 115,		122, 151,
	138		152, 153
Crown	090	Gibraltar	020, 072,
Curtis Mathes.....	014, 020,		091
	022, 034,	Goldstar	020, 022,
	090, 117,		076, 077,
	148, 166		090, 091,
			110, 114,
Daewoo	020, 022,		154, 155,
	056, 090,		156
	110, 118,	Grundig	090, 146
	119, 120,		
	138, 174	Hallmark.....	020, 022
Daytron	020, 022,	Hitachi.....	020, 022,
	090		059, 060,
Dumont.....	020, 072		061, 062,
Dynatech.....	097		063, 064,
			065, 066,
Electroband	095, 108		067, 068,
Electrohome.....	020, 022,		069, 071,
	109		098, 113,
			114, 115,
			157, 158,
			159, 176
		Infinity	000
		Janeil.....	093
		JBL.....	000
		JCB	108

TV CODES CONTINUED

JCPenney.....014, 020, 021, 022, 034, 057, 090, 091, 110, 151, 152, 156, 160, 166, 176	Mitsubishi.....020, 022, 027, 054, 110, 146, 150, 169, 171
Jensen.....020, 022	Montgomery Ward..172
JVC.....027, 078, 079, 101, 113, 114, 115, 152, 158, 162, 163, 164	Motorola.....092, 109
Kawasho.....020, 022, 108	MTC.....014, 020, 022, 034, 095, 097, 110, 166
Kenwood.....020, 022	Multitech.....097
Kloss Novabeam.....023, 024, 025, 093	Multivision.....173
KTV.....090, 095, 096	NAD.....022, 102, 166
Lodgenet.....172	NEC.....014, 020, 022, 027, 109, 110, 174
Loewe.....000	Nikko.....022
Logik.....172	Optimus.....102
Luxman.....020, 022	Optonica.....092, 182
LXI.....000, 022, 100, 148, 166	Orion.....135
Magnavox.....000, 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020, 021, 022, 023, 024, 025, 026, 027, 028	Panasonic.....000, 089, 109, 152
Majestic.....172	Philco.....000, 001, 002, 004, 016, 014, 018, 020, 021, 022, 023, 024, 025, 028, 109, 110, 114
Marantz.....000	Philips.....000, 001, 002, 003, 019, 020, 021, 022, 023, 024, 026, 027, 109, 114, 175, 176
Marantz.....000, 014, 020, 022, 167	Pilot.....020, 090
Matsui.....000	Pioneer.....020, 022, 098, 102, 177, 178, 179
Megatron.....022, 157	Portland.....020, 022, 090, 110
MEI.....095	Priceclub.....034
Memorex.....022, 171, 172	Prism.....152
MGA.....014, 020, 022, 110, 124, 146, 150, 168, 169, 171	Proscan.....100, 120
Midland.....072, 090, 091, 100, 152	Proton.....020, 022, 103, 114, 180
Minutz.....151	Pulsar.....072
	Pulser.....020
	Quasar.....109, 152, 181
	Radio Shack.....020, 022, 090, 091, 113, 114, 182

TV CODES CONTINUED

RCA.....020, 022, 029, 030, 031, 032, 058, 098, 100, 104, 105, 109, 110, 111, 183, 184, 185	Symphonic.....106, 133
Realistic.....020, 022, 090, 091, 113, 114, 182	Tandy.....092
Rhapsody.....095	Tatung.....097, 109
Runco.....072	Technics.....152
Sampo.....014, 020, 022, 090, 091	Techwood.....020, 022, 152
Samsung.....014, 020, 022, 033, 034, 035, 090, 091, 110, 113, 114, 166	Teknika.....003, 016, 020, 021, 022, 034, 089, 090, 093, 110, 114, 115, 146, 166, 171, 172
Samsux.....090	Telecaption.....046
Sanyo.....020, 036, 037, 088, 099, 149, 169	Telerent.....172
Scotch.....022	Tera.....103
Scott.....020, 022, 114, 124, 135, 146	TMK.....020, 022
Sears.....020, 022, 034, 038, 039, 099, 100, 106, 115, 146, 149, 150, 163, 166	Toshiba.....027, 034, 038, 046, 047, 080, 166
Sharp.....015, 020, 022, 040, 041, 042, 043, 051, 090, 092, 114, 129, 182	Totevision.....090
Shogun.....020	Universal.....151, 176
Signature.....044, 172	Victor.....101, 163
Simpson.....021	Vidtech.....020, 022, 110
Sonic.....095	Viking.....093
Sony.....108	Wards.....000, 001, 002, 003, 014, 018, 020, 022, 023, 024, 026, 028, 048, 110, 124, 133, 146, 151, 172, 176, 182
Soundesign.....016, 020, 146	Yamaha.....020, 022, 110
Squareview.....106	Zenith.....050, 072, 073, 074, 075, 172
SSS.....020	
Supre-Macy.....093	
Supreme.....108	
Sylvania.....000, 001, 002, 003, 004, 014, 016, 018, 020, 021, 022, 023, 024, 025, 026, 028, 081	

VCR CODES

You will need to program your remote control to operate the basic functions of your Video Cassette Recorder. Follow the steps in the Programming Your Remote section, entering the correct code for your brand of VCR. Use these lists to find the code for your VCR.

Admiral.....073	Emerson.....001, 008,
Adventura.....069	010, 056,
Aiko.....097	059, 060,
Aiwa.....010, 074,	074, 078,
096	084, 086,
Akai.....054, 055,	087, 094,
056, 076,	095, 096,
077, 078,	099, 100,
079, 080	101, 102,
American High.....001	104, 105,
Anam National.....008, 009	107, 108,
Asha.....085	109, 110,
Audio Dynamics.....081, 082	112, 114,
Audiovox.....086	116, 121
Beaumarck.....085	Fisher.....061, 083,
Bell & Howell.....083	093, 117,
Broksonic.....084, 095	118, 119,
Calix.....086	120, 121
Candle.....085, 086,	Fuji.....001, 062
087, 088,	Funai.....010, 074,
089, 090,	096
091	Garrard.....096
Canon.....001, 008,	GE.....001, 008,
009, 012,	009, 012,
057	058, 063,
Capehart.....053, 092	072, 085,
Carver.....003	122
CCE.....097, 130	Goldstar.....081, 086,
Citizen.....085, 086,	090, 123
087, 088,	Gradiente.....096
089, 090,	Harley Davidson.....096
091, 097	Harman/Kardon.....081, 135
Colortyme.....081	Harwood.....130
Colt.....130	Headquarter.....083
Craig.....085, 086,	HI-Q.....093
093, 130	Hitachi.....010, 051,
Curtis Mathes.....001, 008,	054, 063,
009, 011,	074, 124,
012, 058,	125, 126
077, 079,	Instant Replay.....001, 008,
086, 090,	009
094	JCL.....001, 008,
Cybernex.....085	009
Daewoo.....053, 087,	JCPenney.....001, 008,
089, 091,	009, 012,
095, 096,	051, 061,
097	081, 082,
Daytron.....053	083, 085,
DBX.....081, 082	086, 124,
Dimensia.....072	125, 127,
Dynatech.....010, 074,	129
096	Jensen.....054
Electrohome.....086, 099	JVC.....008, 009,
Electroponic.....086	054, 066,
	081, 082,
	083, 090,
	127

VCR CODES CONTINUED

Kenwood.....054, 066,	Panasonic.....001, 009,
081, 082,	012, 052,
083, 088,	067, 068,
090, 127	069
KLH.....130	Pentax.....008, 009,
Kodak.....001, 086	051, 063,
Lloyd.....010, 074,	088, 124,
196	125
Logik.....130	Pentex Research.....090
LXI.....086	Philco.....000, 001,
Magnavox.....000, 001,	003, 004,
002, 003,	008, 009,
004, 005,	010, 012
006, 007,	Philips.....000, 001,
008, 009,	003, 006,
010, 011,	008, 009,
012, 013	010, 041
Magnin.....085	Pilot.....086
Marantz.....000, 001,	Pioneer.....025, 026,
003, 008,	066, 082,
009, 081,	124
082, 083,	Portland.....053, 087,
088, 090,	089, 091
127	Proscan.....072
Marta.....086	Protec.....130
Matsushita.....001	Pulsar.....013
MEI.....001, 008,	Quarter.....083
009	Quartz.....083
Memorex.....001, 008,	Quasar.....001, 002,
009, 010,	008, 009,
013, 073,	012, 067
074, 083,	Radio Shack.....001, 008,
085, 086,	009, 010,
093, 096	012, 041,
MGA.....056, 099,	073, 074,
132	083, 085,
MGN Technology.....085	086, 093,
Midland.....122	096, 099,
Minolta.....051, 124,	118, 119
125	Radix.....086
Mitsubishi.....014, 015,	Randex.....086
016, 017,	RCA.....001, 009,
018, 019,	011, 027,
050, 056,	028, 031,
066, 099,	035, 051,
124, 125	058, 063,
Montgomery Ward.....020, 073	067, 072,
Motorola.....001, 073	075, 085,
MTC.....010, 074,	124, 125
085, 096	Realistic.....001, 008,
Multitech.....010, 074,	009, 010,
085, 122,	012, 041,
130	073, 074,
NEC.....022, 023,	083, 085,
024, 054,	086, 093,
066, 081,	096, 099,
082, 083,	118, 119
088, 090,	Ricoh.....070
127	Runco.....013
Nikko.....086	Samsung.....055, 077,
Olympus.....001	085, 087,
Optimus.....073, 086	103, 122
Optonica.....041	Sanky.....013, 073

VCR CODES CONTINUED

Sansui.....	037, 054, 066	Teknika.....	001, 008, 009, 010, 045, 071, 074, 086, 096
Sanyo.....	083, 085, 093	Thomas.....	010
Scott.....	059, 084, 087, 095, 102	TMK.....	085, 094, 116
Sears.....	001, 008, 051, 061, 083, 086, 093, 117, 118, 119, 120, 124, 125	Toshiba.....	059, 087, 118, 120, 124
Sharp.....	039, 040, 041, 073, 074, 089, 099	Totevision.....	085, 086
Shintom.....	043, 076, 125, 130	Unitech.....	085
Shogun.....	085	Vector Research.....	081, 082, 087, 088
Signature.....	074	Victor.....	082
Singer.....	001, 130	Video Concepts.....	010, 056, 081, 082, 087, 088
Sony.....	008, 043, 044, 062, 070, 076	Videosonic.....	085
Soundesign.....	010	Wards.....	001, 008, 009, 010, 041, 046, 047, 048, 051, 059, 073, 074, 085, 086, 087, 093, 096, 099, 124, 125, 130
STS.....	001, 051	XR-1000.....	001, 096, 130
Sylvania.....	000, 001, 003, 004, 006, 008, 009, 010, 012, 074, 096	Yamaha.....	010, 054, 081, 082, 083, 090, 127
Symphonic.....	010, 074, 096	Zenith.....	013, 043, 062, 070, 076
Tandy.....	010, 074, 083		
Tashiko.....	086		
Tatung.....	054, 127		
Teac.....	010, 054, 074, 096, 127		
Technics.....	001, 008, 009, 052		

CABLE CONVERTER BOX CODES

You will need to program your remote control to operate the basic functions of your Cable Converter Box. Follow the steps in the Programming Your Remote section, entering the correct code for your brand of Cable Box. Use these lists to find the code for your Cable Box.

CABLE CONVERTER BOX CODES

ABC.....	025, 026, 027, 028, 029, 030, 031	Pioneer.....	012, 013
Antronix.....	032, 033	Pulsar.....	044
Archer.....	004, 032, 033, 034	RCA.....	022, 024
Cabletenna.....	032	Realistic.....	033
Cableview.....	032	Regal.....	041
Century.....	004	Regency.....	038
Citizen.....	004	Rembrandt.....	027
Color Voice.....	005, 006	Runco.....	044
Comtronics.....	035, 036	Samsung.....	013, 035
Contec.....	037	Scientific Atlanta.....	014, 015, 016, 030
Eastern.....	038	Signal.....	008, 035
Garrard.....	004	Signature.....	027
GC Electronics.....	033	SL Marx.....	035
Gemini.....	007, 008	Sprucer.....	024
General Instruments.....	027	Standard Components.....	017
Hamlin.....	039, 040, 041	Starcom.....	008, 025, 031
Hitachi.....	027	Stargate.....	008, 035
Hytex.....	026	Starquest.....	008
Jasco.....	004	Tandy.....	018
Jerrold.....	008, 025, 027, 029, 031, 042, 043	Televue.....	035
Magnavox.....	000	Texscan.....	017
Memorex.....	044	Tocom.....	019, 028, 042
Movie Time.....	009, 010, 026	Toshiba.....	044
NSC.....	009, 026	Tusa.....	008
Oak.....	011, 026, 037	TV86.....	009
Panasonic.....	023, 024	Unika.....	004, 032, 033
Paragon.....	044	United Artists.....	026
Philips.....	000, 001, 002, 003, 004, 005, 006, 007	United Cable.....	025
		Universal.....	004, 032, 033, 034
		Videoway.....	021
		Viewstar.....	000, 009, 018, 020, 036
		Zenith.....	044