

SETTING THE TV REMOTE TO WORK ACCESSORY DEVICES

Your TV remote is capable of working not only your TV but also infrared remote (IR) controlled devices such as VCRs, cable TV converter boxes, satellite receivers, DVD players, and laser disc players.

If you want to use your TV remote to operate a VCR or other accessory device, you will need to perform this initial check explained in this section. You may also need to go to the sections on the "Direct Access Method" and the "Search Method" in the pages that follow.

BEGIN

- 1 Press the VCR or ACC(essory) mode button on the TV remote for the desired accessory device category.

NOTE: pressing the ACC(essory) mode button allows access to the product codes for cable TV converters, DVD players, satellite receivers, and laser disc players.

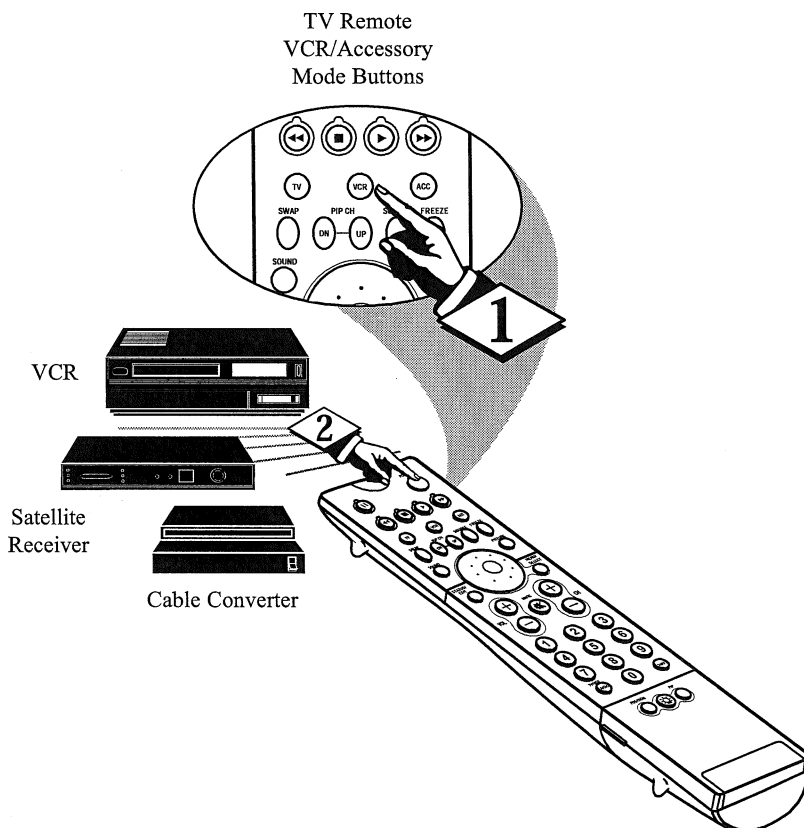
- 2 Point the TV remote toward the desired accessory device and press the POWER button.

Does the remote turn the accessory device on?

If yes, **STOP** and try other function buttons on the TV remote. If they also work the accessory device, then the remote is ready and no further steps are needed.

If no, do the following:

Look up a **three-digit remote code number** on page 47 or 48 for your brand of accessory device. Then go through the simple Direct Access Method steps shown on page 45.



SMART HELP



If more than one number is listed, you may have to try more than the first three-digit code given to locate your device's correct code.

SETTING THE TV REMOTE TO WORK ACCESSORY DEVICES

DIRECT ACCESS METHOD

Now that you have looked up the three-digit Remote Control Direct Entry Code for your brand of accessory device, you are ready to follow the simple steps shown below.

Please read through all the steps before beginning.

BEGIN

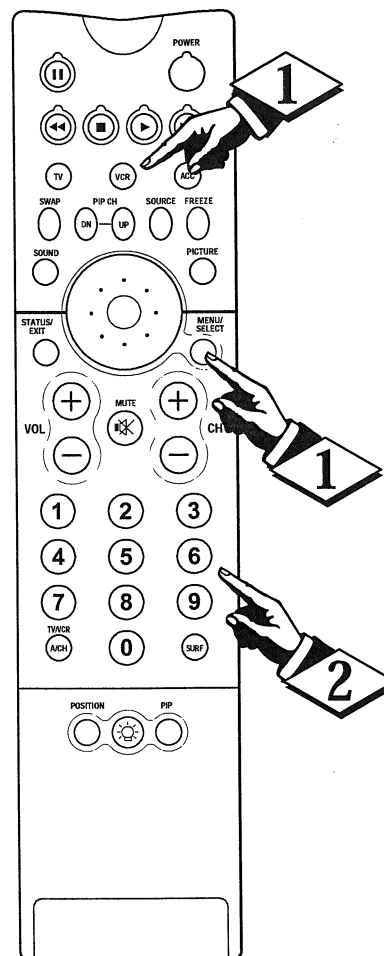
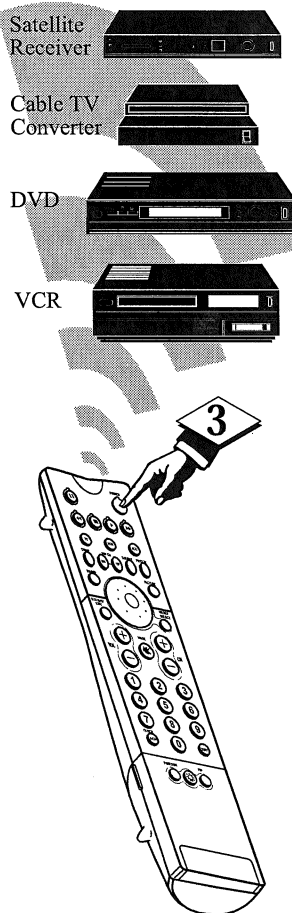
- 1 First, press and hold down the VCR or ACC (for an accessory device other than a VCR) mode button on the TV remote. Then press and hold down the MENU/SELECT button at the same time for a brief moment. Release the buttons. The TV remote back light will switch on.
- 2 Within 30 seconds of pressing the VCR (or ACC) button and MENU/SELECT button, enter a three-digit code for the accessory device (see pages 47 and 48).
- 3 Point the remote at the accessory device. Then press the POWER button on the remote to turn the device on.

STOP

SMART HELP



- Pressing the ACC(essory) mode button allows access to the product codes for accessory devices.
- If the procedure explained above does not work the first time, repeat the steps using the same remote code number.
- If after a second try the remote does not operate your accessory device, and more code numbers are listed for your brand, use the next listed code number.
- If after repeated attempts the Direct Access Method does not allow you to work your accessory device with your TV remote, try the Search Method explained on the next page.



NOTES:

- If you do not enter a complete code within 30 seconds, you will need to perform step 1 of the Direct Access Method again.
- If you enter more than three digits, the unit will retain the first three digits entered.

SETTING THE TV REMOTE TO WORK ACCESSORY DEVICES

SEARCH METHOD

Your TV remote can be set to work various accessory devices (VCRs, cable converters, and satellite receivers, for example) by what is called the Search Method.

NOTE: The Search Method works only with devices equipped with Channel Display Indicators or that capability. If the Direct Access code number method (shown in the previous section) did not enable your TV remote to work your accessory device, then follow the easy steps listed below. Please read the steps once before performing them.

BEGIN

- 1 Turn on the desired device. Press and hold down the VCR or ACC (for an accessory device other than a VCR) mode button on the TV remote. Then press and hold down the SURF button as you hold down the desired mode (VCR or ACC) button.

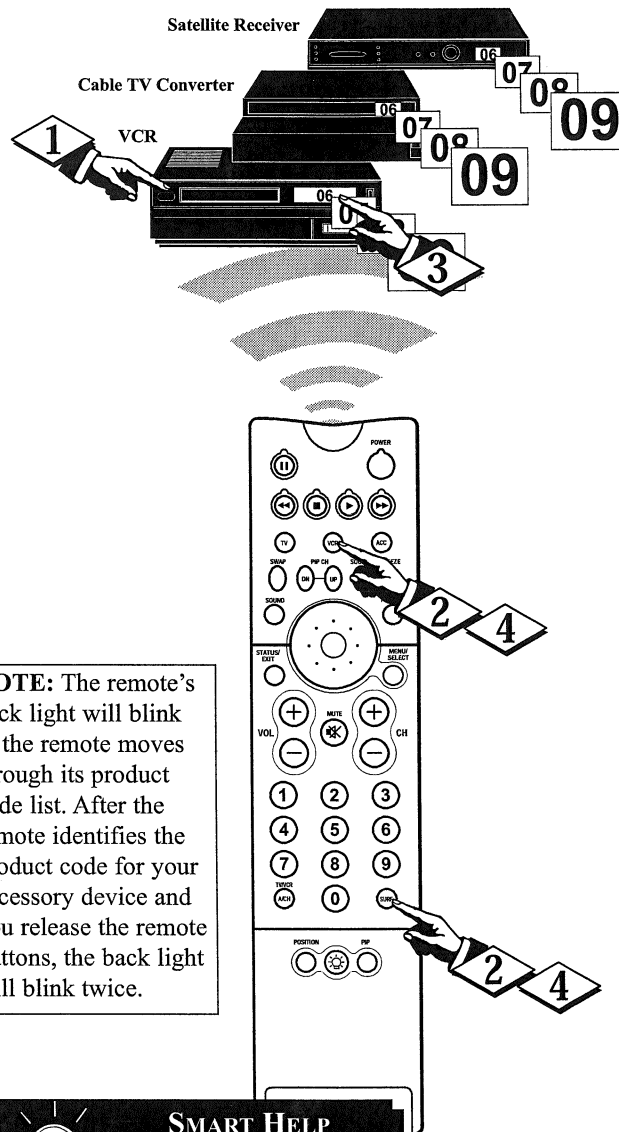
NOTE: You must press and hold down the desired mode (VCR or ACC) button first and then press and hold down the SURF button second.

- 2 While holding down the SURF and the desired mode (VCR or ACC) buttons at the same time, point the remote toward the accessory device and continue holding the buttons down.

- 3 Watch the Channel Indicator on your accessory device. Channel numbers will scan up when the TV remote has identified the correct code for your accessory device. This may take several minutes.

- 4 Release the mode (VCR or ACC) and SURF buttons as soon as channel numbers start to scan up. The scanning means that your TV remote has found the code for your accessory device.

STOP



SMART HELP

- Your TV remote may locate the accessory device's code quickly or require several minutes to do so.
- Don't let the accessory device scan up more than five channels when the correct code is found—the remote may pass up the right code and have to repeat the search cycle.
- If no channel change happens after several minutes, repeat steps 1–4. Then if a channel change still does not occur, the remote will not work the desired accessory device.

SETTING THE TV REMOTE TO WORK ACCESSORIES

Remote Control Direct Entry Codes

VCR BRAND AND REMOTE CODE(S)

Admiral	.075, 236
Adventura	.027
Aiko	.305
Aiwa	.334, 495, 027, 064
Akai	.133, 080, 068, 076, 088, 183, 269
America Action	.305
American High	.062
Asha	.267
Audiovox	.064
Beaumarck	.267
Bell & Howell	.131
Broksonic	.148, 211, 029, 236, 238, 322, 388, 506
CCE	.099, 305
Calix	.064
Canon	.194, 062, 129
Capehart	.047
Carver	.108
Cineral	.305
Citizen	.305, 064
Colt	.099
Craig	.064, 099, 074, 267, 298
Curtis Mathes	.062, 068, 087, 189
Cybernex	.078, 267
Daewoo	.305, 588, 047, 072
Daytron	.047
Denon	.069
Dynatech	.027
Electrohome	.064
Electroponic	.064
Emerex	.059
Emerson	.211, 029, 236, 305, 063, 148, 238, 588, 235, 321, 506, 088, 115, 239, 027, 064, 070, 095, 322, 388, 537
Fisher	.074, 131, 081, 093
Fuji	.060, 062
Funai	.027
GE	.062, 087, 075, 092, 229, 267
Garrard	.027
Go Video	.306, 459, 553, 259
GoldStar	.064, 045, 065, 498, 507
Gradiente	.035, 027, 435
Grundig	.222
HI-Q	.074
Harley Davidson	.027
Harman/Kardon	.065, 102, 108
Harwood	.095, 099
Headquarter	.073
Hitachi	.069, 193, 132, 092, 027, 068, 109
Hughes Network Systems	.069
JVC	.094, 035, 233, 234, 068, 411
Jensen	.068
KEC	.064, 305
KLH	.099
Kenwood	.068, 094, 411, 065
Kodak	.062, 064
LXI	.064
Lloyd's	.027, 235
Logik	.099
MEI	.062
MGA	.070, 088, 267

MGN Technology	.267
MTC	.027, 267
Magnasonic	.305
Magnavox	.062, 108, 137, 130, 027, 066, 176
Magnin	.267
Marantz	.108, 062
Marta	.064
Matsushita	.062, 189, 481
Memorex	.131, 074, 506, 027, 064, 075, 062, 073, 267, 334, 066, 189, 236, 481, 828, 829
Minolta	.132, 069
Mitsubishi	.070, 200, 088, 102, 241, 269, 075, 094, 470
Motorola	.062, 075
Multitech	.027, 099
NAD	.085
NEC	.065, 067, 068, 077, 094, 109, 131
Nikko	.064
Nikon	.061, 280
Noblex	.267
Olympus	.062, 253
Optimus	.189, 481, 075, 085, 064, 131, 459, 827, 828, 829
Optonica	.089
Orion	.506, 029, 211, 236, 322
Panasonic	.062, 189, 481, 253, 104, 405, 129, 252, 254, 273, 827, 828, 829
Penney	.062, 267, 064, 069, 065, 067, 081
Pentax	.069, 092, 132
Philco	.062, 236, 506
Philips	.108, 062, 089, 137, 830, 831
Pilot	.064
Pioneer	.085, 195, 094
Polk Audio	.108
Portland	.047
Profitronic	.267
Proscan	.087, 229
Protec	.099
Pulsar	.066, 078
Quarter	.073
Quartz	.073
Quasar	.062, 189, 104, 481, 828
RCA	.087, 176, 229, 069, 132, 062, 075, 092, 104, 133, 267, 304
Radio Shack	.027
Radix	.064
Randex	.064
Realistic	.027, 131, 074, 075, 064, 062, 089, 073, 93
Ricoh	.061, 280
Runco	.066
STS	.069
Salora	.102
Samsung	.072, 078, 080, 267
Sanky	.066, 075
Sansui	.068, 506, 027, 094, 109, 236, 298
Sanyo	.074, 073, 131, 267
Scott	.211, 238, 148, 070, 072, 237, 239
Sears	.081, 132, 064, 069, 027, 062, 073, 074, 093, 131
Semp	.072
Sharp	.075, 089

Shintom	.099
Shogun	.078, 267
Singer	.099
Sony	.060, 061, 059, 280, 027, 038, 062
Sunpak	.280
Sylvania	.062, 108, 027, 070, 130, 137
Symphonic	.027
TMK	.063, 235, 267
Tatung	.068
Teac	.027, 068
Technics	.062, 189, 273
Teknika	.027, 062, 064, 079
Thomas	.027
Toshiba	.072, 237, 239, 070, 093, 393
Totevision	.064, 267
Unitech	.267
Vector	.072
Vector Research	.065, 067
Video Concepts	.067, 072, 088, 248
Videosonic	.267
Wards	.062, 087, 089, 027, 074, 239, 267, 069, 075, 099, 108, 176
White Westinghouse	.099, 305, 236
XR-1000	.099, 027, 062
Yamaha	.065
Zenith	.066, 027, 060, 061, 236, 506

CABLE CONVERTER BRAND AND REMOTE CODE(S)

ABC	.030, 028, 034, 035, 038, 040, 041, 044, 060
Allegro	.180, 342
Antronix	.049, 234
Archer	.049, 066, 180, 234, 824
BBT	.294
Belcor	.083
Bell & Howell	.041
Cable Star	.083
Cabletenna	.049
Cableview	.049
Century	.180
Citizen	.180, 342
Colour Voice	.052, 058
Comband	.259
Comtronics	.067, 087
Contec	.046
Digi	.664
Eastern	.029
Emerson	.824
Everquest	.042, 067
Focus	.427
GC Electronics	.083, 234
GE	.259
Garrard	.180
Gemini	.042, 097, 269, 824
General Instrument	.303, 503, 038, 837
GoldStar	.067, 171
Goodmind	.824
Hamlin	.047, 036, 286, 061, 300
Hitachi	.038
Hytex	.034
Jasco	.042, 180, 342

See the next page for more codes.



SETTING THE TV REMOTE TO WORK ACCESSORY DEVICES

Remote Control Direct Entry Codes

CABLE CONVERTER BRAND AND

REMOTE CODE(S)

Jerrold	.030, 039, 303, 041, .503, 038, 051, 042, 837
Linsay	.467
Macom	.060
Magnavox	.054
Memorex	.027
Movie Time	.090, 183
NSC	.183, 090, 097
Novaplex	.645
Oak	.046, 034
Optimus	.048
Panasonic	.048, 134, 027
Panther	.664
Paragon	.027
Philips	.052, 058, 269, 317, 054, 180
Pioneer	.171, 050, 560
Popular Mechanics	.427
Prelude	.797
Pulsar	.027
Quasar	.027
RCA	.048
Radio Shack	.042, 847, 342, 824
Realistic	.234
Recoton	.427
Regal	.300, 047, 286
Regency	.029
Rembrandt	.038, 097
Runco	.027
SL Marx	.067
Samsung	.067, 171
Scientific Atlanta	.035, 044, 033, 504
Seam	.537
Signal	.042, 067
Signature	.038
Sprucer	.048
StarSight	.569, 449
Starcom	.030, 042
Stargate	.067, 042, 797, 824
Starquest	.042
Sylvania	.028
TFC	.337
TV86	.090
Tandy	.285
TeleCaption	.248
Televue	.067
Texscan	.028
Timeless	.445
Tocom	.039, 040
Toshiba	.027
Tusa	.042
Unika	.180, 234, 049
United Artists	.034
Universal	.234, 049, 066, 083, 180, 218
Viewstar	.285, 054, 087, 090
Zenith	.027, 552, 081
Zentek	.427

SATELLITE RECEIVER BRAND AND

REMOTE CODE(S)

AlphaStar	.799
Amplica	.099

Amway	.070, 102
Arunta	.548
Astro Industries	.122
BMC	.114
BSR	.122
Cable Innovations	.581
Capetronic	.122
Century	.565
Channel Master	.045, 239
Chaparral	.080, 236, 243
Citoh	.191
Conifer	.031
Curtis Mathes	.088, 099
DX Antenna	.068
Drake	.091, 272, 045, 176
Echostar	.307, 802, 175, 186, 296
Expressvu	.802
General Instrument	.388, 896, 574, 581, 654
Gould	.082
HNS	.644
HTS	.802
Hitachi	.846
Homecable	.265
Hughes Network Systems	.776
Hytek	.122
IQ	.237
IQ Prism	.237
Intersat	.070
JVC	.802
Janeil	.179
Jerrold	.388, 654
Legend	.296
Macom	.088, 045
Magnavox	.749, 751
Memorex	.296, 751
Next Level	.896
Norsat	.031
Panasonic	.179, 728
Philips	.227, 749, 751
Pico	.102
Primestar	.654, 388
RCA	.593, 170, 882
Radio Shack	.581, 896
Ramsey	.102
Realistic	.079, 078
STS	.237, 068
Sony	.666
Star Choice	.896
Star Trak	.207, 448, 574
Strong	.448
Toshiba	.109, 776, 817, 088
Town & Country	.574
Uniden	.265, 079, 101, 397, .581, 751, 103, 323, 749
Zenith	.091, 883, 088

DVD BRAND AND REMOTE CODE(S)

Denon	.859
GE	.862
Harman/Kardon	.871
JVC	.868
Kenwood	.865
Magnavox	.860
Marantz	.866

Mitsubishi	.861
Onkyo	.860
Optimus	.869
Panasonic	.859
Philips	.866, 860
Pioneer	.869, 863
Proscan	.862
RCA	.862
Samsung	.870
Sony	.864
Technics	.859
Theta Digital	.869
Toshiba	.860
Yamaha	.859, 867
Zenith	.872, 860

LASER DISC BRAND AND REMOTE

CODE(S)

ADS	.880
Aiwa	.855
Carver	.853, 850, 858
Denon	.851, 875, 849
Disco Vision	.848
Funai	.855
Harman/Kardon	.853
Hitachi	.848
Kenwood	.877
Magnavox	.853, 857, 875
Marantz	.853, 850
Mitsubishi	.849
NAD	.849
NEC	.879
Nikkodo	.884
Optimus	.849
Panasonic	.856
Philips	.853, 850
Pioneer	.849, 848
Polk Audio	.853
Quasar	.856
RCA	.881, 874
Realistic	.855
Samsung	.858
Sega	.848
Sharp	.873
Sony	.854, 852, 878
Technics	.856
Theta Digital	.853
Victor	.876
Yamaha	.857