

Remote Control Programming

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Programming TV Control

1. Turn on the TV.
2. On the remote, press and hold **TV** (at least 6 seconds) until you see the programming mode start. Each mode key light will turn off and on sequentially, starting with **AUX** on through **TV**, and the sequence will repeat twice. At this time, release **TV** and wait until it's lit continuously.
3. Locate the code for your TV in the *Setup Codes for TVs* below. Brands are listed in alphabetical order with the most popular codes listed first.
4. Enter the first four-digit code for your TV. If you perform this procedure correctly, the **TV** light will blink three times.
NOTE: If you enter an invalid code, the TV light will turn off. In that case, repeat steps 2 through 4 with a valid code.
5. Aim the remote at your TV and press **POWER** once. The TV should turn off. If it does not respond, repeat steps 2-4, trying each code listed for your brand until you find the one that operates your TV. If your TV still does not work with the remote, try searching for the code (see *Searching For Your Code on page 10*).
6. Make note of your code for future reference.

NOTE: Remember to use the remote to operate your TV, Press TV first.

Setup Codes For TVs:

A-Mark	0003
AOC	0030,0019,0003,0052,0137,0185
Abex	0032
Admiral	0093
Adventura	0046
Aiko	0092
Akai	0030,0098
Alaron	0179,0183,0216
Ambassador	0177
Ampro	0751
Anam	0180,0004,0009,0068
Anam National	0055,0161
Archer	0003
Astro Text	0379
Audiovox	0451,0180,0003,0092,0623
Baysonic	0180
Belcor	0019
Bell & Howell	0154,0016
Bradford	0180
Brockwood	0019
Broksonic	0236,0463,0003
CCE	0217,0329
CXC	0180
Candle	0030,0056,0046,0186
Carnivale	0030
Carver	0054
Celebrity	0000
Cineral	0451,0092
Citizen	0060,0030,0056,0039,0046,0092,0186,0280
Clairetone	0185
Concerto	0056
Contec	0180,0157,0158,0185
Craig	0180,0161
Crosley	0054
Crown	0180,0039
Curtis Mathes	0047,0054,0154,0051,0451,0093,0060,0030,0145,0056,0016,0039, 0166,0466
Daewoo	0451,0019,0039,0091,0092,0623,0624
Daytron	0019
Denon	0145
Dumont	0017,0019
Dwin	0720,0774
Dynatech	0049
Electroband	0000,0185
Electrohome	0381,0389,0409

Setup Codes For TVs (con't):

Emerson	0154,0236,0463,0180,0282,0178,0019,0179,0039,0038,0158,0177, 0181,0182,0183,0185,0270,0280,0623,0624
Envision	0030
Fisher	0154,0159
Fujitsu	0179
Funai	0180,0179,0171
Futuretech	0180
GE	0047,0051,0451,0093,0282,0178,0021,0055,0027,0029,0135,0174, 0251,0279
Gibraltar	0017,0030,0019
Goldstar	0030,0178,0019,0056,0001,0002,0032,0106,0409
Gradiente	0053,0056,0392
Grunpy	0180,0179
Hallmark	0178
Harley Davidson	0179
Harman/Kardon	0054,0078
Harvard	0180,0068
Hitachi	0145,0056,0032,0038,0097,0151,0279,0409,0413
Infinity	0054
Inteq	0017
JBL	0054
JCB	0000
JVC	0053,0036,0069,0160,0169,0182
Janeil	0046
KEC	0180
KMC	0106
KTV	0180,0030,0039,0183,0185,0217,0280
Kamp	0216
Kawasho	0158,0216,0308
Kaypani	0052
Kenwood	0030,0019
Kloss	0024,0046,0078
LG	0056
LXI	0047,0054,0154,0156,0178,0148
Logik	0016
Luxman	0056
MEI	0185
MGA	0150,0030,0178,0019,0155
MTC	0060,0030,0019,0056,0049,0091,0185,0216
Magnavox	0054,0030,0179,0020,0024,0028,0036,0096,0186,0187,0230,0386
Majestic	0016,0015
Marantz	0054,0030
Matsushita	0250
Megatron	0178,0145,0003

Setup Codes For TVs (con't):

Memorex	0154,0250,0150,0178,0056,0016,0106
Midland	0047,0017,0051,0039,0032,0135
Minutz	0021
Mitsubishi	0093,0150,0178,0019,0014,0098,0155,0331,0358
Motorola	0093,0055
Multitech	0180,0049,0217
NAD	0156,0178,0166
NEC	0030,0019,0056,0036,0497
NTC	0092
Nikko	0030,0178,0092
Noblex	0430
Noshi	0018
Onwa	0180
Optimus	0154,0250,0166
Optonica	0093,0165
Orion	0236,0463,0179
Panasonic	0051,0250,0055,0162,0226
Penney	0047,0156,0051,0060,0030,0178,0021,0019,0018,0056,0039,0002, 0003,0027,0032,0110,0135
Philco	0054,0463,0030,0145,0019,0020,0028,0096
Philips	0054
Pilot	0030,0019,0039
Pioneer	0038,0166
Portland	0019,0039,0092
Prism	0051
Proscan	0047
Proton	0178,0003,0031,0052,0466
Pulsar	0017,0019
Quasar	0051,0250,0165,0055,0219
RCA	0047,0051,0093,0019,0018,0029,0038,0090,0135,0174,0278
Radio Shack	0047,0154,0165,0180,0030,0178,0019,0056,0039,0032,0409
Realistic	0154,0165,0180,0030,0178,0019,0056,0039,0032
Rhapsody	0183,0185,0216
Runco	0017,0030,0251,0497,0603
SSS	0180,0019
Sampo	0030,0039,0032,0052,0110
Samsung	0060,0030,0178,0019,0056,0032,0329,0427,0482
Samsux	0039
Sansei	0451
Sansui	0463
Sanyo	0154,0146,0159,0484
Scimitsu	0019
Scotch	0178
Scott	0236,0180,0178,0019,0179

Setup Codes For TVs (con't):

Sears	0047,0054,0154,0156,0178,0179,0056,0015,0146,0148,0159,0168, 0171,0281
Semivox	0180
Semp	0156
Sharp	0093,0165,0039,0153,0157,0281,0386,0491
Shogun	0019
Signature	0016
Simpson	0186,0187
Sony	0000,0011,0080,0111
Soundesign	0180,0178,0179,0186
Spectricon	0003,0137
Squareview	0171
Starlite	0180
Supre-Macy	0046
Supreme	0000
Sylvania	0054,0030,0020,0028,0065,0096,0381
Symphonic	0171
TMK	0178,0056,0177
Tandy	0093
Tatung	0055,0003,0049,0396
Technics	0051,0250
Technol Ace	0179
Technovox	0007
Techwood	0051,0056,0003
Teknika	0054,0180,0150,0060,0019,0179,0056,0016,0039,0092,0186,0312
Telefunken	0056
Tera	0031
Toshiba	0154,0156,0060,0036
Tosonic	0185
Totevision	0039
Trical	0157
Universal	0027
Vector Research	0030
Victor	0053
Video Concepts	0098
Vidikron	0054,0242
Vidtech	0178,0019,0036
Viking	0046,0312
Wards	0054,0165,0030,0178,0021,0019,0179,0056,0016,0020,0027,0028, 0029,0080,0096,0111,0174
White Westinghouse	0623,0624
Yamaha	0030,0019
Zenith	0017,0016,0092
Zonda	0003

Programming VCR Control

1. Turn on your VCR and insert a video cassette.
2. On the remote, press and hold **VCR** (at least 6 seconds) until you see the programming mode start. Each mode key light will turn off and on sequentially, starting with **AUX** on through **TV**, and the sequence will repeat twice. At this time, release **VCR** and wait until it's lit continuously.
3. Locate the code for your VCR in the *Setup Codes for VCRs* below. Brands are listed in alphabetical order with the most popular codes listed first.
4. Enter the first four-digit code for your VCR. If you perform this procedure correctly, the **VCR** light will blink three times.
NOTE: If you enter an invalid code, the VCR light will turn off. In that case, repeat steps 2 through 4 with a valid code.
5. Aim the remote at your VCR and press **POWER** once. The VCR should turn off. If it does not respond, repeat steps 2-4, trying each code listed for your brand until you find the one that operates your VCR. If your VCR still does not work with the remote, try searching for the code (see *Searching For Your Code on page 10*).
6. Make note of your code for future reference.

NOTE: Remember to use the remote to operate your VCR, Press **VCR** first.

Setup Codes For VCRs:

Action	0317
Admiral	0048
Adventura	0000
Aiko	0278
Aiwa	0037,0000,0307,0468
Akai	0041,0049,0053,0061,0106,0156,0242
American High	0035
Asha	0240
Audiovox	0037
Beaumarck	0240
Bell & Howell	0104
Broksonic	0184,0121,0209,0002,0211,0295,0361,0479
CCE	0072,0278
Calix	0037
Canon	0035,0102,0167
Capehart	0020
Carver	0081
Cineral	0278
Citizen	0037,0278

Setup Codes For VCRs (con't):

Colt	0072
Craig	0037,0047,0240,0072,0271
Curtis Mathes	0060,0035,0041,0162
Cybernex	0240,0051
Daewoo	0045,0278,0017,0020,0087,0561
Daytron	0020
Denon	0042
Dynatech	0000
Electrohome	0037
Electroponic	0037
Emerex	0032
Emerson	0037,0184,0000,0121,0043,0209,0002,0278,0036,0061,0068,0088, 0208,0211,0212,0294,0295,0361,0479,0510,0561
Fisher	0047,0104,0054,0066
Fuji	0035,0033
Funai	0000
GE	0060,0035,0048,0240,0065,0202
Garrard	0000
Go Video	0232,0279,0350,0432,0526
Goldstar	0037,0038,0018,0471,0480
Gradiente	0000,0008,0408
Grundig	0195
HI-Q	0047
Harley Davidson	0000
Harman/Kardon	0081,0038,0075
Harwood	0072,0068
Headquarter	0046
Hitachi	0000,0042,0041,0065,0082,0105,0166,0292,0396
JVC	0067,0041,0008,0206,0207,0384
Jensen	0041
KEC	0037,0278
KLH	0072
Kenwood	0067,0041,0038,0384
Kodak	0035,0037
LXI	0037
Lloyd's	0000,0208
Logik	0072
MEI	0035
MGA	0240,0043,0061
MGN Technology	0240
MTC	0240,0000
Magnasonic	0278
Magnavox	0035,0039,0081,0000,0149,0103,0110
Magnin	0240
Marantz	0035,0081

Setup Codes For VCRs (con't):

Marta	0037
Matsushita	0035,0162,0454
Memorex	0035,0037,0048,0039,0047,0240,0000,0104,0162,0046,0299,0307
Minolta	0042,0105
Mitsubishi	0048,0067,0043,0061,0075,0173,0214,0242,0443
Motorola	0035,0048
Multitech	0000,0072
NAD	0058
NEC	0104,0067,0041,0038,0040,0050,0082
Nikko	0037
Nikon	0034,0253
Noblex	0240
Olympus	0035,0226
Optimus	0037,0048,0104,0162,0058,0432,0454
Optonica	0062
Orion	0184,0002,0295,0479
Panasonic	0035,0162,0077,0102,0225,0226,0227,0246,0378,0454
Penney	0035,0037,0240,0042,0038,0040,0054
Pentax	0042,0065,0105
Philco	0035,0209,0479
Philips	0035,0081,0062,0110,0403
Pilot	0037
Pioneer	0067,0058,0168
Portland	0020
Profitronic	0240
Proscan	0060,0202
Protec	0072
Pulsar	0039,0051
Quarter	0046
Quartz	0046,0155
Quasar	0035,0162,0077,0454
RCA	0060,0035,0048,0240,0042,0149,0065,0077,0105,0106,0202,0277
Radio Shack	0000
Radix	0037
Randex	0037
Realistic	0035,0037,0048,0047,0000,0104,0062,0046,0066
Ricoh	0034,0253
Runco	0039
STS	0042
Salora	0075
Samsung	0240,0045,0051,0053
Sanky	0048,0039
Sansui	0000,0067,0041,0082,0271,0479
Sanyo	0047,0240,0104,0046
Scott	0184,0045,0121,0043,0210,0211,0212

Setup Codes For VCRs (con't):

Sears	0035,0037,0047,0000,0042,0104,0046,0054,0057,0066,0105
Semp	0045
Sharp	0048,0062
Shintom	0072
Shogun	0240,0051
Singer	0072
Sony	0035,0032,0000,0033,0034,0011,0253
Sunpak	0253
Sylvania	0035,0081,0000,0043,0103,0110
Symphonic	0000
TMK	0240,0036,0208
Tatung	0041
Teac	0000,0041
Technics	0035,0162,0246
Teknika	0035,0037,0000,0052
Thomas	0000
Toshiba	0045,0043,0057,0066,0210,0212,0366
Totevision	0037,0240
Unitech	0240
Vector	0045
Vector Research	0038,0040
Video Concepts	0045,0040,0061,0221
Videosonic	0240
Wards	0060,0035,0048,0047,0081,0240,0000,0042,0072,0149,0062,0212
White Westinghouse	0278
XR-1000	0035,0000,0072
Yamaha	0038
Zenith	0039,0000,0033,0034

Setup Codes For TV/VCR Combos:

Brocksonic	0002,0479 (for TV use 0463)
Citizen	0278
Colt	0072
Curtis Mathes	0035 (for TV use 0051)
Daewoo	0278 (for TV use 0624)
Emerson	0002,0278 (for TV use 0624), 0479 (for TV use 0463)
Funai	0000
GE	0240,0035 (for TV use 0051), 0048 (for TV use 0093), 0060 (for TV use 0047)
Goldstar	0037 (for TV use 0056)
Harley Davidson	0000
Hitachi	0000

Setup Codes For TV/VCR Combos (con't):

Lloyd's	0000
Magnasonic	0278
Magnavox	0000,0081 (for TV use 0054)
Magnin	0240
Memorex	0037
MGA	0240
Mitsubishi	0048 (for TV use 0093)
Orion	0002,0479 (for TV use 0463)
Panasonic	0035 (for TV use 0051)
Radio Shack	0037
RCA	0240,0035 (for TV use 0051), 0060 (for TV use 0047), 0048 (for TV use 0093)
Sansui	0000,0240,0479 (for TV use 0463)
Sanyo	0240
Sears	0000,0037 (for TV use 0056)
Sharp	0048 (for TV use 0093)
Sony	0000,0032 (for TV use 0000)
Sylvania	0081 (for TV use 0054)
Symphonic	0000
Thomas	0000
White Westinghouse	0278 (for TV use 0624)
Zenith	0000,0479

NOTE: Some TV/VCR Combo codes may require a separate code to control volume. Check the codes above and follow the instructions in the "Programming TV Control" section using the supplied TV code.

SEARCHING FOR YOUR CODE

If your TV or VCR does not respond to the remote after trying all of the codes listed for your brand, or if your brand is not listed at all, try searching for your code.

1. Turn on your TV.
2. On the remote, press and hold **TV** (at least 6 seconds) until you see the programming mode start. Each of the mode key lights will turn off and on sequentially, starting with **AUX** on through **TV**, and the sequence will repeat twice. During this time, release **TV** and wait until it's lit continuously.
3. Press the UP cursor key once to start the search mode.

NOTE: In the search mode, the remote will send IR codes from its library to the selected component, starting with the most popular codes first. When the component responds to a subsequent key command (e.g. POWER), the correct device code will be found.

5. If your television does not turn off, press the UP cursor key once again to call up the next IR code and press **POWER** once again.
6. If your television still does not turn off, repeat step 5 as many times as needed until your TV turns off.
7. When your television does turn off, a working code has been found. Press **OK** once to save the code and the **TV** key will blink three times, confirming the selection.
8. To search for the codes of your other components, repeat steps 1 through 7, but substitute the appropriate device key (i.e., **VCR**) for the component you are searching for.

Programming DVD Control

1. Turn on your DVD and insert a video cassette.
2. On the remote, press and hold **VCR/DVD** (at least 6 seconds) until you see the programming mode start. Each mode key light will turn off and on sequentially, starting with **AUX** on through **TV**, and the sequence will repeat twice. At this time, release **VCR/DVD** and wait until it's lit continuously.
3. Locate the code for your DVD in the *Setup Codes for DVDs* below. Brands are listed in alphabetical order with the most popular codes listed first.
4. Enter the first four-digit code for your DVD. If you perform this procedure correctly, the **VCR/DVD** light will blink three times.
*NOTE: If you enter an invalid code, the **VCR/DVD** light will turn off. In that case, repeat steps 2 through 4 with a valid code.*
5. Aim the remote at your DVD and press **POWER** once. The DVD should turn off. If it does not respond, repeat steps 2-4, trying each code listed for your brand until you find the one that operates your DVD. If your DVD still does not work with the remote, try searching for the code (see *Searching For Your Code* on page 10).
6. Make note of your code for future reference.

NOTE: Remember to use the remote to operate your DVD, Press **VCR/DVD** first.

Setup Codes For DVDs:

Aiwa	0641
Apex	0672,0755
Blue Parade	0571
Denon	0490,0634
Emerson	0591
Enterprise	0591
Fisher	0670
GE	0522,0717
Go Video	0715
Gradiente	0651
Greenhill	0717
Harman/Kardon	0582
Hitachi	0573,0664
Hiteker	0672
JVC	0558,0623
Kenwood	0534,0682
Konka	0711,0719,0720,0721
Magnavox	0503,0675
Marantz	0539
Microsoft	0522
Mitsubishi	0521
NAD	0704
Onkyo	0503,0627
Oritron	0651
Panasonic	0490,0632,0677
Philips	0503,0539
Pioneer	0525,0571,0632
Princeton	0674
Proscan	0522
RCA	0522,0571,0717
Samsung	0573
Sanyo	0670
Sharp	0630
Sherwood	0633
Sony	0533
Technics	0490
Techwood	0692
Theta Digital	0571
Toshiba	0503
Urban Concepts	0503
Yamaha	0490,0545
Zenith	0503,0591

Setup Codes For Audio Amplifiers:

Aiwa	0406
Carver	0269
Curtis Mathes	0300
Denon	0160
GE	0078
Harman/Kardon	0892
JVC	0331
Left Coast	0892
Linn	0269
Magnavox	0269
Marantz	0892,0321,0269
Nakamichi	0321
Optimus	0395,0300
Panasonic	0308
Philips	0892,0269
Pioneer	0013,0300
Polk Audio	0892,0269
RCA	0300
Realistic	0395
Sansui	0321
Sony	0689,0220
Soundesign	0078
Technics	0308
Victor	0331
Wards	0078,0013
Yamaha	0354

Setup Codes For Audio Receivers:

ADC	0531
Aiwa	1089,1405,0121,0158,0189,0405
Audiotronic	1189
Bose	1229
Capetronic	0531
Carver	1089,1189,0042,0189,0360
Casio	0195
Clarinette	0195
Curtis Mathes	0080
Denon	1104,1160,0004
Emerson	0424
Fisher	0042,0360
Garrard	0424,0463
Harman/Kardon	0110,0189,0891
Hewlett Packard	1181
JBL	0110

Setup Codes For Audio Receivers (con't):

JVC	0074
Kenwood	1313,1027,1570,1569,0027,0042,0186
Koss	0424
LXI	0181
Linn	0189
Lloyd's	0195
MCS	0039
Magnavox	1089,1189,0189,0195,0391,0531
Marantz	1089,1189,0039,0189
Modulaire	0195
Motorola	1191
Musicmagic	1089
Nakamichi	0097
Onkyo	0135
Optimus	1023,0042,0080,0181,0186,0531,0670,0738,0801
Panasonic	1518,0039,0309,0367
Penney	0195
Philips	1089,1189,1269,0189,0391,1120
Pioneer	1023,0014,0080,0150,0244,0531,0630
Polk Audio	0189
Proscan	1254
Quasar	0039
RCA	1023,1254,0080,0360,0531
Realistic	0181,0195
Sansui	1089,0189
Sanyo	0801
Sharp	0186
Sherwood	0491,0502
Sony	1058,1258,1158,0158,0474
Soundesign	0670
Stereophonics	1023
Sunfire	1313
Teac	0463
Technics	1308,1309,1518,0039,0309
Thorens	1189
Victor	0074
Wards	0014,0080,0158,0189
Yamaha	0176,0186,1176
Yorx	0195
Zenith	0857

Setup Codes For CD Players:

Aiwa	0157,0124
Burmester	0420
California Audio Labs	0029,0303
Carver	0157,0179,0437
DKK	0000
DMX Electronics	0157
Denon	0873,0003
Emerson	0305
Fisher	0174,0179
Garrard	0393,0420
Genexxa	0032,0305
Harman/Kardon	0157,0173
Hitachi	0032
JVC	0072
Kenwood	0681,0826,0626,0028,0037,0190
Krell	0157
LXI	0305
Linn	0157
MCS	0029
MTC	0420
Magnavox	0157,0305
Marantz	0626,0029,0157,0180
Miro	0000
Mission	0157
NSM	0157
Nikko	0174
Onkyo	0868,0101
Optimus	1063,0000,0032,0037,0145,0179,0305,0420,0437,0468
Panasonic	0029,0303
Parasound	0420
Philips	0626,0157
Pioneer	1063,1062,0032,0305,0468
Polk Audio	0157
Proton	0157
QED	0157
Quasar	0029
RCA	1062,0032,0053,0179,0305,0468,0764
Realistic	0179,0180,0420
Rotel	0157,0420
SAE	0157
Sansui	0157,0305
Sanyo	0179
Scott	0305
Sears	0305
Sharp	0861,0037,0180

Setup Codes For CD Players (con't):

Sherwood	1067,0180
Sonic Frontiers	0157
Sony	0490,0000,0185
Soundesign	0145
Tascam	0420
Teac	0174,0180,0393,0420
Technics	0029,0303
Victor	0072
Wards	0157,0053
Yamaha	0888,0036,0187
Yorx	0461

CHANGING VOLUME LOCK

Changing the Volume Lock setting to the Cable, VCR/DVD, or TV mode will change the volume control for all modes except Audio, which will continue to control its own volume. If you change the Volume Lock setting to the Audio mode, all modes will be controlled by the Audio mode.

1. On the remote, press and hold a mode key (i.e. **AUDIO**, **VCR/DVD**, **CABLE**, or **TV**) for at least 6 seconds, until you see the programming mode start. Each mode key light will turn off and on sequentially, starting with **AUDIO** on through **TV**, and the sequence will repeat twice. At this time, release the mode key and wait until it's lit continuously.
2. Press and release **VOLUME +**.
3. The mode light will blink three times, indicating volume has been locked to selected mode.
4. Now, whenever you press **VOLUME +**, **VOLUME -**, or **MUTE** on the remote, volume will be controlled by selected mode, independent of the current mode.

To Unlock Volume:

1. On the remote, press and hold a mode key (i.e. **AUDIO**, **VCR/DVD**, **CABLE**, or **TV**) for at least 6 seconds, until you see the programming mode start. Each mode key light will turn off and on sequentially, starting with **AUDIO** on through **TV**, and the sequence will repeat twice. At this time, release the mode key and wait until it's lit continuously.
2. Press and release **VOLUME -**.
3. The mode light will blink three times, indicating volume has been locked to selected mode.
4. Now, whenever you press **VOLUME +**, **VOLUME -**, or **MUTE** on the remote, the volume controls will reset to their original device.