

Save Code list for future reference Refer to the setup procedure below and look up the 3 digit code for your brand of TV, VCR, etc., from the list below. Refer to the Owner's Manual for your remote for more information.

Direct Code Entry
Note, when all codes under a Brand have been searched the red indicator flashes rapidly for 3 seconds.

- Press and hold the **CODE SEARCH** button until the red indicator stays on, then release the **CODE SEARCH** button.
- Press and release the desired Mode button (**TV, VCR, etc.**). The red indicator blinks, then stays lit.
- Enter the 3 digit code from the code tables. Note: after a valid code entry, the red indicator turns off. For an invalid code, the red indicator flashes.
- With your device on, press **CHANNEL UP**. If the device responds, no further programming is required. Note: If some buttons do not operate your equipment, try one of the other codes for your brand.

Code Search (by Brand)
Lets you search for a code for a specific Brand within the Code Library for a particular manufacturer.

- Turn on the device (TV, VCR, etc.) to be controlled.
- Press and hold the **CODE SEARCH** button until the red indicator remains on, then release the **CODE SEARCH** button.
- Press and release the desired Mode button (**TV, VCR, etc.**). The red indicator blinks off once.
- Press and release the numeric button (0-9) corresponding to desired Manufacturer (see table below). Note, pressing "0" performs a full library search same as Complete Library Code Search Method.
- Press the **CHANNEL UP** button (or **POWER** or **PLAY** (VCR only)) repeatedly until the device to be controlled changes channel.
- Press and release **MUTE** to install the code.

TV
Most users will want to store VCR codes under the **VCR** button, Cable codes under **Cable**, etc. If you want to store a VCR code under **Cable**, etc., first follow the procedure for Direct Code Entry and press **Cable** in step 2 of Direct Code Entry, then enter ANY VCR code in step 3 of Direct Code Entry. Then follow the steps above for Brand Search or Complete Search.

Complete Library Code Search
If after trying "Direct Code Entry" or "Code Search (by Brand)" your product does not respond, or if your brand is not listed, try doing a complete search of the code library for your code by following the steps below.

- Manually turn on the device (TV, VCR, etc.) to be controlled.
- Press and hold the **CODE SEARCH** button until the red indicator stays on, then release the **CODE SEARCH** button.
- Press and release the desired Mode button (**TV, VCR, etc.**). The red indicator blinks, then stays lit.
- Press the **CHANNEL UP** button repeatedly (up to 300 times) until the device to be controlled changes channel. The red indicator blinks, then stays lit.
- Press and release **MUTE** to install the code.

Brand Search Table
Look up your brand in the appropriate column (TV, VCR, etc.) in the table below. Look for the digit (1, 2, 3, etc.) that applies to your brand, and enter it in step 4 of "Code Search (by Brand)."

DIGIT	TV	VCR/DVD	CABLE/SAT
1	PHILIPS, PHILCO	PHILIPS, PHILCO	PHILIPS, PHILCO
2	SONY, AKAI, PANASONIC, SHARP, TOSHIBA, JVC, DAEWOO	SONY, AKAI, PANASONIC, SHARP, TOSHIBA, JVC, DAEWOO	PACE, ECHOSTAR
3	THOMSON, BRANDT	THOMSON, BRANDT	THOMSON, UNIVERSUM, LASAT
4	FERGUSON, BAIRD, TELEFUNKEN, SABA, NORMENDE	FERGUSON, TELEFUNKEN, SABA, NORMENDE	FERGUSON, TELEFUNKEN, SABA, NORMENDE
5	GRUNDIG, BLAUPUNKT	GRUNDIG, BLAUPUNKT	GRUNDIG
6	NOKIA, FINLUX, ITT, LUXOR, DANTAX, BEKO, PROSONIC	NOKIA, FINLUX, ITT	NOKIA, FINLUX, ITT, HIRSCHMANN

BPL.....	120
BRANDT.....	022 036 045
.....	046 126 127 139
BRION VEGA.....	000 051 169
BRITANNIA.....	003
BRUNS.....	000 007
BSR.....	026 131
BTC.....	011
BUSH.....	009 011 019 024 025 027
.....	028 032 039 051 062 068 107
.....	115 120 131 132 139 167 169 171
CAPSONIC.....	002
CARREFOUR.....	027
CASCADE.....	009
CATHAY.....	051 169
CENTRUM.....	168 171
CENTURION.....	051 169
CENTURY.....	000
CGE.....	043 053 129 131
CIMLINE.....	009 028
CITY.....	009
CLARIVOX.....	037 169
CLATRONIC.....	002 003 009 011
.....	026 157
ALLSTAR.....	051
AMPLIVISION.....	003
AMSTRAD.....	002 009 011 013 030
.....	068 069 071 074 108 123
ANAM.....	009 065 109
ANGLO.....	009
ANITECH.....	002 009 043 109
ANSONIC.....	009 014
ARCAM DELTA.....	003
ARC EN CIEL.....	045 126 139
ARISTONA.....	051 169
ARTHUR MARTIN.....	158
ASA.....	000 016 017 018 021 110
ASBERG.....	043 051
ASTRA.....	009
ASUKA.....	002 003 011
ATLANTIC.....	003 051 157 169
ATORI.....	009
AUDIOSONIC.....	003 009 011
.....	051 139 157 169
AUDIOTON.....	003
AUSIND.....	043
AUTOVOX.....	000 002 003
.....	043 101 125 157
BAIRD.....	111 139
BANG & OLUFSON.....	000 199
BASIC LINE.....	009 011 051
BASTIDE.....	003
BAUR.....	076 118 132 141 169
BEKO.....	007 034 042 083 216
BEON.....	051 169
BEST.....	113
BESTAR.....	051 115
BINATONE.....	003
BLACK DIAMOND.....	171
BLACK STAR.....	129
BLAUPUNKT.....	008 022 100
.....	112 117 135 202
BLUE SKY.....	011
BLUETEC.....	009 011 123 169
BLUETEC.....	051 169
DIGITALITY.....	203
BONDSTEC.....	009 051 169
BOOTS.....	003 025

DUAL.....	002 003 009 038 042 044
.....	047 061 063 067 068 087 089
.....	103 107 115 125 126 131 139
BRION VEGA.....	000 051 169
BRITANNIA.....	003
BRUNS.....	000 007
BSR.....	026 131
BTC.....	011
BUSH.....	009 011 019 024 025 027
.....	028 032 039 051 062 068 107
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BLUETEC.....	009 011 123 169
BLUETEC.....	051 169
DIGITALITY.....	203
BONDSTEC.....	009 051 169
BOOTS.....	003 025

GRUNDIG.....	008 017 043 091
.....	101 114 117 135 136
HAAZ.....	228
HALIFAX.....	002 003
HAMPTON.....	003
HANSEATIC.....	003 007 009 026 027
.....	051 073 118 131 141 169
HANTAREX.....	009 123
HARWOOD.....	171
HAUPTAUGE.....	193
HCM.....	002 003 009 074 120
HIFIFOX.....	139
HINARI.....	006 009 011 027
.....	043 051 137 169 171
HISAWA.....	011 120 148
HITACHI.....	003 004 016 019 021
.....	023 027 033 041 045 046
.....	047 085 118 123 131 133 134
.....	138 139 140 141 142 144 213
HOSHAI.....	011
HORNYPHON.....	051
HUANYU.....	003 115
HYGASHI.....	003
HYPER.....	003 009 129 131
HYPSON.....	002 003 051 120 169
ICE.....	002 003 009 011 051 068
IMPERIAL.....	021 043 051
.....	053 083 129 131
INDESIT.....	024 101
INDIANA.....	001 169
INGELENE.....	021
INGERSOL.....	009
INGERSOL.....	003 014 043 123
INNO HIT.....	002 009 061 067 068
.....	087 103 107 111 115 154
.....	156 168 171 175 176 177
MANDOR.....	002
MANESTH.....	002 003 028 051 169
MARANTZ.....	051 169
MARELLI.....	000
MARK.....	051 169
MATSUI.....	003 004 009 013 019
.....	025 026 027 028 030 051
.....	062 068 091 099 123 147
.....	148 164 169 173 180 215
MATSUSHITA.....	065
MCMICHAEL.....	041
MEDIATOR.....	051 169
MEDION.....	002 009 038 042 044
.....	047 061 063 067 068 087
.....	103 107 115 154 155 156
.....	168 171 175 176 177 181 85
.....	205 206 207 208 209 210 228
MEMOREX.....	002 003 004 009
.....	009 011
MEMPHIS.....	004 009 113
METZ.....	000 075 135 151 152 201
MICROMAXX.....	002 009 038 042
.....	044 047 061 063 067 068
.....	087 103 107 115 154 155 156
.....	168 171 175 176 177 181 85
.....	205 206 207 208 209 210 228
MICROSTAR.....	002 009 038 042
.....	044 047 061 063 067 068
.....	087 103 107 115 154 155 156
.....	168 171 175 176 177 181 85
.....	205 206 207 208 209 210 228
MICROSTAR.....	002 009 038 042
.....	044 047 061 063 067 068
.....	087 103 107 115 154 155 156
.....	168 171 175 176 177 181 85
.....	205 206 207 208 209 210 228
MINERVA.....	017 101 135

MINOKA.....	051
MINOKA.....	000 027 030 051 054
.....	055 057 060 098 101 135 170 171
MITSUBISHI.....	009
MITSUBISHI.....	003 009
LENOIR.....	003 009
LESA.....	129
LEYCO.....	002 004 026 051 169
LG.....	003 009 012 019 051
.....	084 088 093 119 129
.....	131 149 169 171 211 214
LIENSEN.....	169
LIENSEN.....	027 043 045 129 131 169
MURPHY.....	003 018 133
NAD.....	141
NAIKO.....	099
NAONIS.....	019 108
NATIONAL.....	064 101
NEC.....	027 056 185
NECKERMANN.....	000 003 008 019
.....	022 051 083 118 132 169
NEI.....	051 068 113 169
NESCO.....	129
NEWTECH.....	009 051
NEW WORLD.....	011
NICAMAGIC.....	003
LUMATRON.....	074 141 157 169
LUX MAY.....	051
LUXOR.....	003 019 047 077 093
.....	101 132 138 141 196
M-ELECTRONIC.....	003 009 016
.....	018 021 036 051 068
NORDMENDE.....	000 021 024 036
.....	045 046 051 111 126 127 139
NORDVISION.....	169
OCEANIC.....	021 141 142
OKANO.....	083
ONCEAS.....	003
ONWA.....	069
ORBIT.....	051
ORION.....	009 013 026 028 030
.....	051 062 075 095 099 123
.....	142 147 159 169 171 212 215
ORMOND.....	171
OSAKI.....	002 003 004 011 074 165
OSO.....	011
OSUME.....	004 029
OTTO VERSAND.....	001 003 008
.....	027 051 076 111 118 120
.....	121 131 132 139 141 169
PAEL.....	003
PALLADIUM.....	003 012 083
PANAMA.....	002 003 009 165
PANASONIC.....	021 064 065 067 101
.....	124 141 142 151 152 186 197
PATHE CINEMA.....	003 037 073 131
PATHE MARCONI.....	022 037 045
.....	046 126 139
MEMPHIS.....	004 009 113
METZ.....	000 075 135 151 152 201
MICROMAXX.....	002 009 038 042
.....	044 047 061 063 067 068
.....	087 103 107 115 154 155 156
.....	168 171 175 176 177 181 85
.....	205 206 207 208 209 210 228
MICROSTAR.....	002 009 038 042
.....	044 047 061 063 067 068
.....	087 103 107 115 154 155 156
.....	168 171 175 176 177 181 85
.....	205 206 207 208 209 210 228
MICROSTAR.....	002 009 038 042
.....	044 047 061 063 067 068
.....	087 103 107 115 154 155 156
.....	168 171 175 176 177 181 85
.....	205 206 207 208 209 210 228
MINERVA.....	017 101 135

POPPE.....	009
PRANDONI-PRINCE.....	019 123 141
PRECISION.....	003 165
PRIMA.....	009 021
PRINZ.....	047
PRO2.....	002 009 038 042 044 047 061
.....	063 067 068 087 103 107 115 154
.....	155 156 168 171 175 176 177 181
.....	185 205 206 207 208 209 210 228
PROFEX.....	009 043 141
PROFILO.....	171
PROFI-TRONIC.....	051
PROLINE.....	004 051 062
PROSONIC.....	003 015 042 088
.....	107 161 169 171
PROTECH.....	002 003 009 014 051
.....	113 129 131 132 165 169
PROVISION.....	169 171
PYE.....	051 068 169
PYMI.....	009
QUASAR.....	129
QUELLE.....	002 003 016 017 018
.....	022 026 030 051 076
.....	129 131 135 141 169 171
QUESTA.....	027
RADIOLA.....	051 169
RADIOTONE.....	007 051
RADIOMARELLI.....	000 123 129
RADIONETTE.....	016 018
RANK.....	017 027
RBM.....	017
RCA.....	003
REDIFFUSION.....	118
REVOX.....	051 169
REX.....	002 019 021 108 157
RFT.....	000 007
R-LINE.....	051 169
ROADSTAR.....	002 009 011
ROBOTRON.....	000
RIF.....	000
SABA.....	000 021 036 045 046 058
.....	111 123 126 127 139 141 142
SACCS.....	037
SAISHO.....	002 003 009 013
.....	028 030 095 123
SALORA.....	019 021 031 047 061
.....	093 107 108 118 121
.....	128 131 132 138 141
SAMBERS.....	014 043 123
SAMSUNG.....	002 003 004 009
.....	030 051 083 090 093 104
.....	105 160 165 169 172 192
SANDRA.....	003
SANSUI.....	011
SANYO.....	003 004 006 016 018
TELEFUNKEN.....	022 035 036 050
.....	051 052 078 079 101 108
.....	111 126 127 139 163

NORDMENDE	232 293
.....	294 303 305
OCEANIC	231 232 240
OKANO	233 300
ORION	233 234 246
.....	248 283 301 304
ORSON	231
OSAKI	231 256 275
OTTO VERSAND	257
PALLADIUM	232 256
.....	271 275 300
PANASONIC	260 261 262
.....	267 314 321 325
PATHE CINEMA	301
PATHE MARCONI	232
PENTAX	266
PERDIO	231
PHILCO	299
PHILIPS	235 242 257 271
.....	290 293 315 317 327
PHONOLA	257
PIONEER	257 294
PORTLAND	245 250
PRINZ	231
PRO2	233 248 262 269 311 319
PROFEX	275
PROLINE	231 288
PROSONIC	233 245
PYE	257
QUARTZ	258
QUELLE	231 257 258
.....	263 264 271 301
RADIOLA	257
REF	232 293
RFT	250 257
ROADSTAR	245 252 256 275
SABA	232 281 293 303 305 324
SAISHO	233 248 275 301
SALORA	237 258 292 298
SAMSUNG	252 311 312
SAMURAI	250
SANSUI	232 244 294
SANYO	258 279 284
SAVILLE	248
SBR	257
SCHAUB LORENZ	231 232
.....	237 258 264
SCHNEIDER	231 233 245 250
.....	256 257 265 275
SEG	252 275
SEI-SINUDYNE	257
SELECO	232
SENTRA	250
SENTRON	275
SHARP	240 241 282 328
SHINTOM	258 275
SHIVAKI	256
SIEMENS	256 258 263 271
SILVA	256
SINUDYNE	257
SOLAVOX	250
SONOKO	245
SONOLOR	240
SONTEC	256
SONY	249 251 255 308
.....	309 310 313 316
STANDARD	245
STRONG	244

SUNKAI	233
SUNSTAR	231
SUNTRONIC	231
SUNWOOD	275
TAI SHO	233
TANDBERG	263 301
TASHIKO	231 240
TATUNG	231 232 257
TCM	233 248 262 269 311 319
TEC	250
TECHNICS	260 262
TELEAVIA	232
TELEFUNKEN	232 280 293 294
.....	295 303 305 306 307 323 324
TENOSAL	275
TENSAI	231 256 275
TEVION	233 248 262 269 311 319
THOMSON	232 242 293 294
.....	295 305 323 324
THORN	232 258 301
TiVo HDD	242 316
TOKAI	256 275
TONSAI	275
TOSHIBA	232 257 265
.....	293 298 319 320
TOWADA	275
TOWIKA	275
TRIUMPH	301
TV	250
UHER	256 264
ULTRAVOX	264
UNITECH	252
UNITED QUICK STAR	245
UNIVERSUM	231 237 239 253
.....	256 257 263 271 290
VICTOR	294 295
VIDEON	233 248 262 311
WELTBlick	256
WHITE WESTINGHOUSE	264
YAMISHI	275
YOKAN	275
YOKO	250 252 256 275

Cable

CABLETIME	448 449 450
CABLE AND WIRELESS	606
CLYDE CABLEVISION	452
CRYPTOTELEVISION	458
FILMNET CABLECRYPT	474
FILMNET COMCRYPT	474
FOXTEL	602
GEC	452
GRUNDIG	415 483
IMPULSE	554
JERROLD	494 554
MOVIE TIME	551
.....	566 583 586 587 618 619
DAERYUNG	438
DANSAT	410
PIONEER	415 518 521
SCIENTIFIC ATLANTA	524 525
STS	551
TELE+1	474
TELEWEST	554 606
VISIOPASS	487
DITRISTRAD	462

DNT	438 552
DONG WOO	501
DRAKE	463 557
DUAL	412 413 423 428 493 504
.....	511 566 583 586 587 618 619
ECHOSTAR	425 438 464 465 467
.....	481 578 579 580 581 586
EINHELL	401 408 417 419
ELEKTA	409
ELTA	401 428 462 552
EMANON	401
EMME ESSE	428 446 491
ANKARO	408 428
ANTTRON	401 407
APOLLO	401
ARCON	415 422 424 426 463
ARMSTRONG	419
ASAT	552
AST	435
ASTON	406 594
ASTRA	419 429 431 432 502
ASTRO	407 409 428 439 441
AUDIOTON	407 462
AXIS	415 428 432 456
BARCOM	424
BEST	424 428
BLAUPUNKT	439
BOCA	419 502 635
BRANDT	565 566 567 574
BRAIN WAVE	444
BROADCAST	443
BT SATELLITE	420 574
BUSH	402 404 410
.....	446 451 482 562
CANAL+	569
CHANNEL MASTER	405
CHAPARRAL	507
CHESS	547 586
MEDIASAT	489
CITYCOM	402 459
CLATRONIC	444
CLEMENS KAMPHUS	491
CNT	409
COLUMBUS	477
COMMLINK	408
COMTECH	456
CONDOR	428
CONNEXIONS	438 454
CONTEC	456 459
COSAT	462
CROWN	419
CYBERCOM	412 413 423 428
.....	442 493 504 511 514 546
.....	566 583 586 587 618 619
CYBERMAXX	412 413 423 428
.....	442 493 504 511 514 546
.....	566 583 586 587 618 619
CYTRON	412 413 423 428 442
.....	493 504 511 514 546
.....	566 583 586 587 618 619
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DRAKE	463 557
DUAL	412 413 423 428 493 504
.....	511 566 583 586 587 618 619
ECHOSTAR	425 438 464 465 467
.....	481 578 579 580 581 586
EINHELL	401 408 417 419
ELEKTA	409
ELTA	401 428 462 552
EMANON	401
EMME ESSE	428 446 491
ANKARO	408 428
ANTTRON	401 407
APOLLO	401
ARCON	415 422 424 426 463
ARMSTRONG	419
ASAT	552
AST	435
ASTON	406 594
ASTRA	419 429 431 432 502
ASTRO	407 409 428 439 441
AUDIOTON	407 462
AXIS	415 428 432 456
BARCOM	424
BEST	424 428
BLAUPUNKT	439
BOCA	419 502 635
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JVC	483
KATHREIN	439 441 459 496 498
.....	499 507 549 552 607 617 631
KOSMOS	489 491 496
KR	407
KREISELMEYER	439
KYOSTAR	401
LABGEAR	459 462
LASAT	409 428 500 501
.....	502 565 566 567
LENCO	401 420 489 503
LENG	444
LENNOX	462
LENSON	479
LIDCOM	451
LIFE	583
LIFESAT	412 413 423 428 442
.....	493 504 511 514 546
.....	566 583 586 587 618 619
LIFETEC	412 413 423 428 442
.....	493 504 511 514 546
.....	566 583 586 587 618 619
LION	468
LG	489
LORRAINE	489
LUXUS	428
LUPOR	417 429 537 548
LYONNAISE	603
MACAB	603
MANHATTAN	402 403 409
.....	446 462 633
MARANTZ	552
MASCOM	409
MASPRO	402 446 471 483 507 558
MATSUI	493 504 511 514 546
.....	483 574
MB	504
MEDIAMARKT	419
PROMAX	402
PROSAT	404 405 408 482 562
PROTEK	461
PROVISION	409
QUADRAL	405 408 428
QUELLE	417 439
QUIERO	603
RADIOLA	552
RADIX	438 630
RAINBOW	407
REBOX	476
REDIFFUSION	510
REDPOINT	432
REDSTAR	428
RFT	408 552
RUEFACH	503
SABA	404 409 446 468 471 472
.....	543 556 562 565 571 572 573 575
SABRE	402
SAGEM	570 603 604
SAKURA	456 482
SALORA	429 509 510 527
SAMSUNG	401 426
SAT	405 415 435 437
SATCOM	443 504 523
SATEC	446
SATFORD	443
SATMASTER	443
SATPARTNER	401 407 409
.....	444 489 491
.....	530 531 544 548 563 564

NOMEX	622
NORDEMENDE	401 402 405
.....	409 472 549 603
NOVIS	444
OCEANIC	461 468
OCTAGON	401 407 456
OKANO	419 491 496
OPTEX	459 462
ORBIT	435
ORBITECH	401
ORIGO	468
OSAT	407
OTTO VERSAND	439
PACE	402 410 439 446 453 471
.....	482 508 527 555 559 584
PACIFIC	461
PALCOM	405 431 477 479
PALLADIUM	419 483
PALTEC	431
PANASONIC	402 446 542 555 584
PANDA	402 410
PANSAT	490
PHILIPS	402 427 434 436 446
.....	455 483 493 495 508 515
.....	550 552 561 599 600 605
PHOENIX	456 482
PHONOTREND	408 462 491
PIONEER	457 620
POLSAT	603
POLYTRON	459
PREDKI	444
PREMIERE	462 544 564 569
PRIESNER	419 445
PRO2	412 413 423 428 442
.....	493 504 511 514 546
.....	566 583 586 587 618 619
PROFI	566 583 586 587 618 619
PROMAX	402
PROSAT	404 405 408 482 562
PROTEK	461
PROVISION	409
QUADRAL	405 408 428
QUELLE	417 439
QUIERO	603
METZ	439
MICROMAXX	412 413 423 428
.....	442 493 504 511 514 546
.....	566 583 586 587 618 619
MICRO TECHNOLOGY	468
MITSUBISHI	402 439 574
MITSUMI	502
MORGANS	419 502 552
MORGAN SYDNEY	611
MULTICHOICE	602
MULTISTAR	496 501
MULTITEC	401 426
MURATTO	437 489
NAVEX	444
NEC	509 510
NEUHAUS	432 462 479
NEXTWAVE	414 585
NIKKO	419
NOKIA	402 429 446 454 487 519
.....	530 531 544 548 563 564

SCHNEIDER	428 455 511 583
.....	586 587 618 635
SCHWAIGER	411 412 430 433
.....	440 459 498 504 508 516
.....	566 573 575 576 577 582 583
.....	585 587 598 616 631 633 635
SEEMANN	419 432 438
SEG	401 428 444 504 541 631 634
SELECO	462
SIEMENS	439
SILVA	444
SKARDIN	432
SKY DIGITAL	555 584
SKYMASTER	408 504 546 547
.....	586 587 588 589 590 591 592 621
SKYMAX	552
SKYVISION	462
SONY	418 447 555 584
SR	419 472 502
STARLAND	586
STARRING	444
STAR TRAK	401
STRONG	401 407 428
.....	454 489 545 562
SUMIDA	419
SUNSTAR	419 502 527
TANDBERG	603
TANDY	407
TANTEC	402 446 471 477 479
TATUNG	460
TCM	412 413 423 428 442
.....	493 504 511 514 546
.....	566 583 586 587 618 619
TECO	419 502
TECHNILAND	443
TECHNISAT	438 479 5