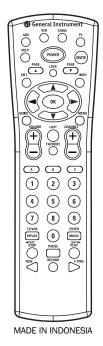
General Instrument DRC-400/425 UNIVERSAL REMOTE CONTROL



USER GUIDE

OVERVIEW

The General Instrument DRC Universal Remote Control will control up to four devices, including GI Cable Converters (i.e., DCT-1000, DCT-1200, DCT-2000, and DCT-5000), most TVs and VCRs, and auxiliary components.

The DRC requires two fresh AA alkaline batteries and easy programming to control all functions of your Cable Converter, as well as all of the basic functions of your other original remote controls.

For best results, please read and perform all instructions listed here. Also, keep these instructions for future reference.

FEATURES AND FUNCTIONS

Use the DRC mode keys (i.e., AUX, VCR, CABLE, or TV) to control a desired device. When pressed, the selected mode key will light, confirming your choice. Use the other keys to perform desired actions (see the following key chart).

NOTE: The selected mode will remain active until you press another mode key.

Press AUX, VCR, CABLE, or TV once to select a home entertainment component to control.

POWER	Press POWER once to turn on or off the selected home enter- tainment component.
HELP	Press HELP once to display the help screen.
MUTE	Press MUTE once to turn sound off or on.
PAGE PAGE	Use PAGE \blacktriangle (or PAGE \blacktriangledown) to page up (or down) through menu screens and the program guide.
Or Or	Use LOCK/PPV* to restrict viewing of selected programs or to view the PPV menu.
EXIT	Use EXIT to exit menu or guide.
NF0	Use INFO to display current channel and program information.
	Use cursor keys to move the cursor in the program guide and menu screens.
Or Select	Use OK/SELECT* to select menu options, PPV events, and to tune programs from the program guide.
	Use GUIDE to display the program guide.
	Use MENU to display the main menu.
VOLUME	In TV or CABLE mode, use VOLUME + (or VOLUME -) to raise (or lower) sound volume.
	Use CHANNEL + (or CHANNEL -) to select the next higher (or lower) channel.
LAST	Use LAST to recall last channel or go back one screen in the menu.
FAVORITE	In the CABLE mode, press FAVORITE once to display preset favorite cable channels.
	These functions are set by your cable system operator.
() (2 (3) (4 (5 (6) (7 (8 (9) (6)	Use the keypad $(0 \sim 9)$ to directly select channels (e.g., 09 or 31).
TVVCR	Press TV/VCR BYPASS once to switch VCR to view TV or tape (not supported by all applications).

	display menu of digital music channels, or to enter channels on some TV models.
PAUSE RECORD C,FWD.	In the VCR and TV modes, use the STOP, PAUSE, PLAY, REW., RECORD, and EFWD. keys to control VCR. To record a program, press RECORD once.
	In the CABLE mode, press DAY> (or <day) once to move the pro gram guide ahead (or back) 24 hours.</day)
ELECT/OK k are and the m	lity of the LOCK/PPV eys are dependent on the nodel of converter. BATTERIES
	Image: Control of the second secon
On the DRO tery cover a Obtain two alkaline ba and – mark + and – mark	3 C's back, pull back the bat-
	E: Functiona ELECT/OK k are and the n

Use ENTER/MUSIC to

MUSIC

4. Test the unit by pressing POWER and any mode key (e.g., AUX, VCR, CABLE, or TV). If the batteries are inserted correctly, the selected mode key will be lit.

NOTE: Removing the batteries WILL NOT require you to reprogram your DRC. A selected mode key will blink two times with each key press when batteries need replacing.

PROGRAMMING TV CONTROL

- 1. Turn on the TV.
- On the DRC, 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 *Setup Codes for TVs* below. Brands are listed in alphabetical order with the most popular codes listed first.

Emerson

0154, 0236, 0463, 0180, 0282, 0178,

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 DRC 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 DRC, try searching for the code (see *Searching For Your Code* on the back side).
- 6. Write your TV code in the boxes below for future reference.

	-		

NOTE: Remember, to use the DRC to operate your TV, press TV first.

Setup Codes for TVs:

D185
0092,
0093,
0039,
0623,

	0154, 0236, 0463, 0180, 0282, 0178, 0019, 0179, 0039, 0038, 0158, 0177,
	0181,0182,0183,0185,0270,0280,
Envision	0623,0624 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
Gibralter	0017,0030,0019
GoldStar	0030, 0178, 0019, 0056, 0001, 0002,
Gradiente	0032,0106,0409 0053,0056,0392
Grunpy	0180,0179
Hallmark	0178
Harley Davidson	0179
Harman/Kardon Harvard	0054,0078
Hitachi	0180,0068 0145,0056,0032,0038,0097,0151,
Inden	0279,0409,0413
Infinity	0054
Inteq	0017
JBL JCB	0054
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 LG	0024, 0046, 0078 0056
LXI	0047,0054,0154,0156,0178,0148
Logik	0016
Luxman	0056
MEI	0185
MGA MTC	0150,0030,0178,0019,0155 0060,0030,0019,0056,0049,0091,
MIC	0185,0216
Magnavox	0054,0030,0179,0020,0024,0028,
Majestic	0036,0096,0186,0187,0230,0386 0016,0015
Marantz	0054,0030
Matsushita	0250
Megatron	0178,0145,0003
Memorex	0154, 0250, 0150, 0178, 0056, 0016, 0106
Midland	0047,0017,0051,0039,0032,0135
Minutz	0021
Mitsubishi	
WIItSUDISIII	0093, 0150, 0178, 0019, 0014, 0098,
	0155,0331,0358
Motorola	0155,0331,0358 0093,0055
	0155,0331,0358 0093,0055 0180,0049,0217
Motorola Multitech	0155,0331,0358 0093,0055
Motorola Multitech NAD NEC NTC	0155,0331,0358 0093,0055 0180,0049,0217 0156,0178,0166 0030,0019,0056,0036,0497 0092
Motorola Multitech NAD NEC NTC Nikko	0155,0331,0358 0093,0055 0180,0049,0217 0156,0178,0166 0030,0019,0056,0036,0497 0092 0030,0178,0092
Motorola Multitech NAD NEC NTC Nikko Noblex	0155, 0331, 0358 0093, 0055 0180, 0049, 0217 0156, 0178, 0166 0030, 0019, 0056, 0036, 0497 0092 0030, 0178, 0092 0430
Motorola Multitech NAD NEC NTC Nikko	0155,0331,0358 0093,0055 0180,0049,0217 0156,0178,0166 0030,0019,0056,0036,0497 0092 0030,0178,0092
Motorola Multitech NAD NEC NTC Nikko Noblex Noshi	0155,0331,0358 0093,0055 0180,0049,0217 0156,0178,0166 0030,0019,0056,0036,0497 0092 0030,0178,0092 0430 0018
Motorola Multitech NAD NEC NTC Nikko Noblex Noshi Onwa Optimus Optonica	0155,0331,0358 0093,0055 0180,0049,0217 0156,0178,0166 0030,0019,0056,0036,0497 0092 0030,0178,0092 0430 0018 0180 0154,0250,0166 0093,0165
Motorola Multitech NAD NEC NTC Nikko Noblex Noshi Onwa Optimus Optonica Orion	0155,0331,0358 0093,0055 0180,0049,0217 0156,0178,0166 0030,0019,0056,0036,0497 0092 0030,0178,0092 0430 0018 0180 0154,0250,0166 0093,0165 0236,0463,0179
Motorola Multitech NAD NEC Nitko Noblex Noshi Onwa Optimus Optonica Orion Panasonic	0155, 0331, 0358 0093, 0055 0180, 0049, 0217 0156, 0178, 0166 0030, 0019, 0056, 0036, 0497 0092 0030, 0178, 0092 0430 0018 0180 0154, 0250, 0166 0093, 0165 0236, 0463, 0179 0051, 0250, 0055, 0162, 0226
Motorola Multitech NAD NEC NTC Nikko Noblex Noshi Onwa Optimus Optonica Orion	0155,0331,0358 0093,0055 0180,0049,0217 0156,0178,0166 0030,0019,0056,0036,0497 0092 0030,0178,0092 0430 0018 0180 0154,0250,0166 0093,0165 0236,0463,0179
Motorola Multitech NAD NEC NTC Nikko Noblex Noshi Onwa Optimus Optonica Option Panasonic Penney	0155,0331,0358 0093,0055 0180,0049,0217 0156,0178,0166 0030,0019,0056,0036,0497 0092 0030,0178,0092 0430 0018 0154,0250,0166 0093,0165 0236,0463,0179 0051,0250,0055,0162,0226 0047,0156,0051,0060,0030,0178, 0021,0019,0018,0055,0039,0002, 0003,0027,0032,0110,0135
Motorola Multitech NAD NEC Nitko Noblex Noshi Onwa Optimus Optonica Orion Panasonic	0155, 0331, 0358 0093, 0055 0180, 0049, 0217 0156, 0178, 0166 0030, 0019, 0056, 0036, 0497 0092 0030, 0178, 0092 0430 0018 018 0180 0154, 0250, 0166 0093, 0165 0236, 0463, 0179 0051, 0250, 0055, 0162, 0226 0047, 0156, 0051, 0060, 0030, 0178, 0021, 0019, 0018, 0056, 0039, 0002, 0034, 0027, 0032, 0110, 0135 0054, 0463, 0030, 0145, 0019, 0020,
Motorola Multitech NAD NEC NTC Nikko Noblex Noshi Onwa Optimus Optonica Option Panasonic Penney	0155,0331,0358 0093,0055 0180,0049,0217 0156,0178,0166 0030,0019,0056,0036,0497 0092 0030,0178,0092 0430 0018 0154,0250,0166 0093,0165 0236,0463,0179 0051,0250,0055,0162,0226 0047,0156,0051,0060,0030,0178, 0021,0019,0018,0055,0039,0002, 0003,0027,0032,0110,0135
Motorola Multitech NAD NEC Nitko Noblex Noshi Onwa Optimus Optonica Optonica Orion Panasonic Penney Philco	0155, 0331, 0358 0093, 0055 0180, 0049, 0217 0156, 0178, 0166 0030, 0019, 0056, 0036, 0497 0092 0030, 0178, 0092 0430 0018 0180 0154, 0250, 0166 0093, 0165 0236, 0463, 0179 0051, 0250, 0055, 0162, 0226 0047, 0156, 0051, 0060, 0030, 0178, 0021, 0019, 0018, 0056, 0039, 0002, 0003, 0027, 0032, 0110, 0135 0054, 0463, 0030, 0145, 0019, 0020, 0028, 0096
Motorola Multitech NAD NEC NTC Nikko Noblex Noshi Onwa Optimus Optonica Optinica Optonica Optinica Optinica Panasonic Penney Philco Philips Pilot Pioneer	0155,0331,0358 0093,0055 0180,0049,0217 0156,0178,0166 0030,0019,0056,0036,0497 0092 0030,0178,0092 0430 0018 0154,0250,0166 0093,0165 0236,0463,0179 0051,0250,0055,0162,0226 0047,0156,0051,0060,0030,0178, 0021,0019,0018,0056,0039,0002, 0003,0027,0032,0110,0135 0054,0463,0030,0145,0019,0020, 0054 0054 0054
Motorola Multitech NAD NEC Nitko Noblex Noshi Onwa Optimus Optonica Orion Panasonic Penney Philco Philips Pilot Pioneer Portland	0155,0331,0358 0093,0055 0180,0049,0217 0156,0178,0166 0030,0019,0056,0036,0497 0092 0030,0178,0092 0430 0018 0154,0250,0166 0093,0165 0236,0463,0179 0051,0250,0055,0162,0226 0047,0156,0051,0060,0030,0178, 0021,0019,0018,0056,0039,0002, 0003,0027,0032,0110,0135 0054,0463,0030,0145,0019,0020, 0054 0054 0054
Motorola Multitech NAD NEC Nitko Noblex Noshi Onwa Optonica Optonica Optonica Optonica Optonica Penney Philoc Philips Philot Pioneer Portland Prism	0155, 0331, 0358 0093, 0055 0180, 0049, 0217 0156, 0178, 0166 0030, 0019, 0056, 0036, 0497 0092 0030, 0178, 0092 0430 0018 018 0180 0154, 0250, 0166 0033, 0165 0236, 0463, 0179 0051, 0250, 0055, 0162, 0226 0047, 0156, 0051, 0060, 0030, 0178, 0021, 0019, 0035, 0056, 0039, 0002, 0003, 0027, 0032, 0110, 0135 0054, 0463, 0030, 0145, 0019, 0020, 0028, 0096 0054 0030, 0019, 0039 0038, 0166 0019, 0039, 0092 0051
Motorola Multitech NAD NEC Nitko Noblex Noshi Onwa Optimus Optonica Orion Panasonic Penney Philco Philips Pilot Pioneer Portland	0155, 0331, 0358 0093, 0055 0180, 0049, 0217 0156, 0178, 0166 0030, 0019, 0056, 0036, 0497 0092 0030, 0178, 0092 0430 0018 0154, 0250, 0166 0093, 0165 0236, 0463, 0179 0051, 0250, 0055, 0162, 0226 0047, 0156, 0051, 0060, 0030, 0178, 0021, 0019, 0018, 0056, 0039, 0002, 0047, 0156, 0051, 0060, 0030, 0178, 0021, 0019, 0018, 0056, 0039, 0002, 0033, 0027, 0032, 0110, 0135 0054, 0463, 0030, 0145, 0019, 0020, 0028, 0096 0054 0030, 0019, 0039 0038, 0166 0019, 0039, 0092 0051
Motorola Multitech NAD NEC NTC Nikko Noblex Noshi Onwa Optonica Optonica Optonica Optonica Optonica Optonica Optonica Penney Philos Philips Philot Pioneer Portland Prism Proscan	0155, 0331, 0358 0093, 0055 0180, 0049, 0217 0156, 0178, 0166 0030, 0019, 0056, 0036, 0497 0092 0030, 0178, 0092 0430 0018 018 0180 0154, 0250, 0166 0033, 0165 0236, 0463, 0179 0051, 0250, 0055, 0162, 0226 0047, 0156, 0051, 0060, 0030, 0178, 0021, 0019, 0035, 0056, 0039, 0002, 0003, 0027, 0032, 0110, 0135 0054, 0463, 0030, 0145, 0019, 0020, 0028, 0096 0054 0030, 0019, 0039 0038, 0166 0019, 0039, 0092 0051
Motorola Multitech NAD NEC NTC Nikko Noblex Noshi Onwa Optimus Optonica Optimus Optonica Optinnes Optonica Orion Panasonic Penney Philco Philips Pilot Pioneer Portland Priss Pirss Pilot Pisar Quasar	0155,0331,0358 0093,0055 0180,0049,0217 0156,0178,0166 0030,0019,0056,0036,0497 0092 0030,0178,0092 0430 0018 0180 0154,0250,0166 0093,0165 0236,0463,0179 0051,0250,0055,0162,0226 0047,0156,0051,0060,0030,0178, 0021,0019,0018,0055,0039,0002, 0054,0463,0030,0145,0019,0020, 0054,0463,0030,0145,0019,0020, 0054,0463,0030,0145,0019,0020, 0054,0463,0030,0145,0019,0020, 0054,0463,0030,0145,0019,0020, 0054,0463,0030,0145,0019,0020, 0054,0463,0030,0145,0019,0020, 0054,0463,0030,0145,0019,0020, 0054,0463,0030,00145,0019,0020, 0054,0463,0030,00145,0019,0020, 0054,0463,0030,0014,0052,0466 00178,0003,0031,0052,0466 0017,0019 0051,0250,0165,0055,0219
Motorola Multitech NAD NEC NTC Nikko Noblex Noshi Onwa Optimus Optonica Optimus Optonica Optinnes Optonica Optinnes Optonica Optinnes Optines Panasonic Penney Philco Philips Pilot Pioneer Portland Priss Proscan Proton Pulsar	0155,0331,0358 0093,0055 0180,0049,0217 0156,0178,0166 0030,0019,0056,0036,0497 0092 0030,0178,0092 0430 0018 0154,0250,0166 0093,0165 0236,0463,0179 0051,0250,0055,0162,0226 0047,0156,0051,0060,0030,0178, 0021,0019,0018,0056,0039,0002, 0003,0027,0032,0110,0135 0054,0463,0030,0145,0019,0020, 0054 0054 0038,0166 0019,0039,0092 0051 0047 0178,0003,0031,0052,0466 0017,0019

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
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
1 1 1	0029,0080,0096,0111,0174
White Westinghouse	0623,0624
Yamaha	0030,0019
Zenith	0017,0016,0092 0003
Zonda	

PROGRAMMING VCR CONTROL

- 1. Turn on your VCR and insert a video cassette.
- 2. On the DRC, press and hold VCR (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 VCR and wait until it's lit continuously.

- 3. Locate your VCR brand in the SETUP CODES FOR VCRs below. Brands are listed in alphabetical order with the most popular codes listed first.
- Enter the first four-digit VCR 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 DRC at your TV and and press POWER once. Your VCR should turn off. If your VCR remote control does not have a POWER key, press PLAY. 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 DRC, try searching for the code (see *Searching For Your Code* on the back side).
- 6. Write your VCR code in the boxes below for future reference.

 	1 1	
 	1 1	
 	1 1	

NOTE: Remember, to use the DRC 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
Beaumark	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
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
Electrophonic	0037
Emerex	0032
Emerson	0037, 0184, 0000, 0121, 0043, 0209
	0002, 0278, 0036, 0061, 0068, 0088
	0208,0211,0212,0294,0295,0361
*** 1	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

0000
0081,0038,0075
0072,0068
0000, 0042, 0041, 0065, 0082, 0105
0166, 0292, 0396
0067,0041,0008,0206,0207,0384
0041 0037,0278
0057,0278
0067,0041,0038,0384
0035,0037
0037
0000,0208
0072 0035
0240,0043,0061
0240
0240,0000
0278
0035,0039,0081,0000,0149,0103
0110 0240
0035,0081
0037
0035,0162,0454
0035,0037,0048,0039,0047,0240
0000,0104,0162,0046,0299,0307 0042,0105
0042,0105 0048,0067,0043,0061,0075,0173
0214, 0242, 0443
0035,0048
0000,0072
0058
0104,0067,0041,0038,0040,0050 0082
0037
0034,0253
0240
0035,0226
0037, 0048, 0104, 0162, 0058, 0432 0454
0454
0184,0002,0295,0479
0035, 0162, 0077, 0102, 0225, 0226
0227, 0246, 0378, 0454 0035, 0037, 0240, 0042, 0038, 0040
0055,0057,0240,0042,0058,0040
0042,0065,0105
0035,0209,0479
0035,0081,0062,0110,0403
0037 0067, 0058, 0168
0007,0008,0108
0240
0060,0202
0072
0039,0051
0046
0046,0155
0035,0162,0077,0454 0060,0035,0048,0240,0042,0149
0065, 0077, 0105, 0106, 0202, 0277
0000
0037
0037
0035,0037,0048,0047,0000,0104 0062,0046,0066
0034,0253
0039
0042
0075
0240,0045,0051,0053
0048,0039
0000,0067,0041,0082,0271,0479 0047,0240,0104,0046
0184,0045,0121,0043,0210,0211
0212
0035,0037,0047,0000,0042,0104
0046,0054,0057,0066,0105
0045
0048 0062
0048,0062 0072

continued on back side...

PROGRAMMING VCR CONTROL

Setup Codes for VCRs (continued):

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 624),
	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
Lloyds	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 TV code to control volume. Check the codes above and follow the instructions in the "Programming TV Control" section (on the front side) using the supplied TV code. If there is no TV code listed for your TV/VCR Combo's operating code, you will need to use the volume control capabilities of your General Instrument Cable Converter.

PROGRAMMING CABLE CON-VERTER (OR DBS) CONTROL

When you received your DRC remote control, it was already programmed to operate your GI Cable Converter. However, if you want to control a DBS receiver or a different Cable Converter, perform the following instructions (otherwise skip to the next topic):

- 1. Turn on the Cable Converter or DBS Receiver.
- On the DRC, press and hold CABLE 2. (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 CABLE and wait until it's lit continuously
- Locate your Cable Converter or DBS 3. brand in the SETUP CODES FOR CABLE CONVERTERs or SETUP CODES FOR DBSs below. Brands are listed in alphabetical order with the most popular codes listed first.
- Enter the first four-digit code for 4. your Cable Converter or DBS.If you perform this procedure correctly, the CABLE light will blink three times

NOTE: If you enter an invalid code, the CABLE light will turn off. Repeat steps 2 through 4 with a valid code.

- 5. Aim the DRC at your Cable Converter or DBS Receiver and and press POWER once. Your Cable Converter or DBS receiver 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 Cable Converter or DBS Receiver. If your unit still does not work with the DRC, try searching for the code (see Searching For Your Code).
- Write down the Cable Converter or DBS Receiver code in the boxes below for future reference.

NOTE: Remember, to use your DRC to operate your Cable Converter or DBS Receiver, press CABLE first.

Setup Codes for Cable Converters:

0000,0001,0002,0003,0004,0005, General Ins 0006,0008 Tocom 0005,0007

Setup Codes for DBS Receivers:

General Instrument	0100, 0101, 0102, 0103, 0104, 0105, 0106, 0107
Primestar	0100,0101,0102,0103

PROGRAMMING AUXILIARY COMPONENT CONTROL

To program the DRC to control an auxiliary component (e.g., a second TV or VCR, a GI DBS Receiver, or Digital Audio Tuner):

- 1. Turn on your auxiliary component (and if it's a VCR, insert a video cassette).
- On the DRC, press and hold AUX (at 2. 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 AUX and wait until it's lit continuously.
- Locate the brand in the SETUP 3 CODES listed for your type of auxiliary unit (e.g., VCRs, TVs, Cable Controllers, or DBS Receivers) or audio service listed below. Brands are listed in alphabetical order with the most popular codes listed first.
- Press AUX, VCR, CABLE, or TV once 4 to let the DRC know what type of device you want to assign to the AUX mode.
- 5. Enter the first four-digit code for your auxiliary component. If you perform this procedure correctly, the AUX light will blink three times.

NOTE: If you enter an invalid code, the AUX light will turn off. In that case, repeat steps 2 through 5 with a valid

- 6. Aim the DRC at your auxiliary component and press POWER once (or PLAY once if it's a VCR). The device should turn off (or start playing the tape). If the auxiliary component does not respond, repeat steps 2-6, trying each code listed for your brand until you find the one that operates your auxiliary component. If it still does not work with the DRC, try searching for the code (see Searching For Your Code).
- 7 Write down the auxiliary component type and its code in the spaces below for future reference.

TVDE

IIIE.	 	
	1	

NOTE: Remember, to use the DRC to operate your auxiliary component, press AUX first.

DRC Setup Codes for Miscellaneous Audio Services:

General Instrument 0201, 0200 Scientific Atlanta 0202

SEARCHING FOR YOUR CODE

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

For example, after trying all of the codes for your TV, you still cannot get the DRC to operate your TV, then:

- 1. Turn on your TV.
- 2. On the DRC, 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 \blacktriangle (UP) cursor key once to start the search mode.

NOTE: In the search mode, the DRC 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.

- Press POWER once. The TV key will 4. light on and off, showing that an IR code has been sent.
- 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.
- If your television still does not turn 6. off, repeat step 5 as many times as needed until your TV turns off.
- When your television does turn off, a 7 working code has been found. Press OK once to save the code and the TV kev 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, CABLE, or AUX) for the component you are searching for.



CHANGING VOLUME LOCK

Your new DRC is set to control volume of a component through its associated mode (i.e., through the cable in the Cable mode, through the TV in the TV mode, and through the *auxiliary device* in the Aux. mode). If your TV is not remote controllable, or if you would like the volume to be controlled by a different component, you can change the Volume Lock setting to control a volume through a non-associated mode (e.g., through the *cable* in the TV mode).

Changing the Volume Lock setting to the Cable or TV mode will change the volume control for all modes except Aux., which will continue to control its own volume. If you change the Volume Lock setting to the Aux.mode, all modes (i.e., Aux., Cable, and TV) will be controlled by the Aux.mode.

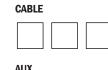
NOTE: The volume controls will not operate if Volume Lock is set to VCR mode.

To change the Volume Lock setting to the TV mode:

- 1. On the DRC, 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.
- Press and release VOLUME +. 2
- 3. The TV key light will blink three times, indicating volume has been locked to the TV mode.
- Now, whenever you press VOLUME +, VOLUME -, or MUTE on the DRC, volume will be controlled by your TV.

To change the Volume Lock setting to the CABLE mode:

- 1. On the DRC, press and hold CABLE (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 CABLE and wait until it's lit continuously.
- Press and release VOLUME +. 2.
- 3 The CABLE key light will blink three times, indicating volume has been locked to the CABLE mode.
- Now, whenever you press VOLUME +, VOLUME -, or MUTE on the DRC, volume will be controlled by your Cable Converter.











the boxes below.

CHECKING THE CODES

is operating your equipment.

equipment.

2.

3.

4.

5.

6.

operating your TV:

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above.

three times.

1. Turn on your TV.

If you have set up the DRC using the

Searching For Your Code procedure, you

may need to find out which four-digit code

Perform the following procedure after you

have set up your components to find out

which four-digit code is operating your

For example, to find out which code is

On the DRC, press and hold TV (at

least 6 seconds) until you see the

mode light sequence start. Each of

the mode key lights will turn off and

on sequentially, starting with AUX

on through TV, and will repeat twice.

During the sequence, release the TV

key and wait until it stays lit continu-

Press 9 - 9 - 0. The TV key will blink

To view the code for the first digit,

press and release 1. Count the num-

ber of TV key blinks (e.g., 3 blinks

NOTE: The mode key will not blink if

Repeat step 4 three more times for

releasing 2, 3, and then 4. Finish

writing down the code in the boxes

To check for the codes of your other

5, only substitute the appropriate

device key (i.e., VCR, CABLE, or

AUX) for the component you are

checking. Write down the codes in

components, repeat steps 1 through

each successive digit by pressing and

the leftmost box below.

the code digit is a "0".

= 3) and write down the number in



έ	a		

- To change the Volume Lock setting to the AUX mode:
- 1. On the DRC, press and hold AUX (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 AUX and wait until it's lit continuously.
- 2. Press and release VOLUME +.
- 3. The AUX key light will blink three times, indicating volume has been locked to the AUX mode.
- Now, whenever you press 4. VOLUME +, VOLUME -, or MUTE on the DRC, volume will be controlled by your Auxiliary Device.

To unlock Volume Lock:

- On the DRC, press and hold a mode 1. key (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. During this time, release the mode key and wait until it's lit continuously.
- Press and release VOLUME -. 2.
- 3. The mode key light will blink three times, indicating volume has been unlocked for the selected mode.
- 4. Now, whenever you press VOLUME +, VOLUME -, or MUTE on the DRC, the volume controls will reset to their original device.

TROUBLESHOOTING

A mode key does not blink or blinks 2 times when you press a key.
Replace the batteries with two (2) new AA alkaline batteries.
A mode key blinks when you press a key, but home entertainment componen does not respond.
Make sure the DRC is aimed at your home entertainment componen and is not farther than 15 feet away.
DRC does not control home entertainment com- ponents or commands are not working properly.
Try all listed codes for the component brands being set up. Make sure they can be operated with an infrared remote control.

PROBLEM:	TV/VCR combo does not respond properly.
SOLUTION:	Use the VCR codes for your brand. Some combo units may require both a TV code and a VCR code for full operation.
PROBLEM:	No volume on a 2nd TV.
SOLUTION:	Follow instructions in <i>Changing Volume Lock</i> .
PROBLEM:	CHANNEL+, CHANNEL-, and LAST do not work for your RCA TV.
SOLUTION:	Due to RCA design (1983- 1987), only the original remote control will oper- ate these functions.
PROBLEM:	Changing channels does not work properly.
SOLUTION:	If original remote control required pressing ENTER to change channels, press ENTER on the DRC after entering the channel number.

ADDITIONAL INFORMATION

The GI DRC does not have any user serviceable parts. Opening the case, except for the battery cover, may cause permanent damage to your GI remote control.

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