

# GEUS-Supplied Universal Remote Programming Instructions

## OVERVIEW

Your GEUS-supplied Universal Remote Control can control up to four devices, including GEUS Cable Converters, most TVs and VCRs, and auxiliary components. The codes for your components were entered at setup.

If you purchase a new TV or VCR or add additional equipment, you will need to reprogram your remote control.

For best results, please read and follow all of these instructions. You may want to print them out for future reference.

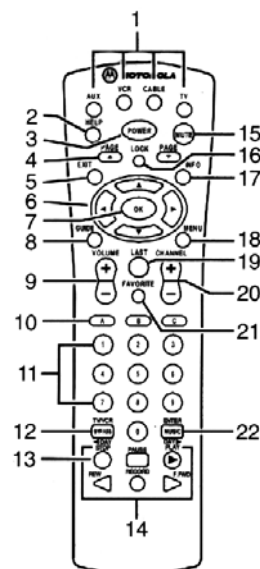
**NOTE: The remote control does not have any user serviceable parts. Opening the case, except for the battery cover, may cause permanent damage to your remote control.**

## PROGRAMMING TV CONTROL

1. Turn on the TV.
2. On the remote, press and hold *TV* (#1) for at least 6 seconds. Wait for the programming mode to start. The light for each mode key (the four buttons across the top, just below the Motorola logo) will turn on and off in sequence, starting with *AUX* and continuing through *TV*. The sequence will repeat twice. Release the *TV* button. Wait until the *TV* button stays lit.
3. Locate the TV setup code for your TV in the code list at the end of these instructions. Brands are listed in alphabetical order. The most popular codes are listed first.
4. Using the number keys on the remote (#11) enter the first four-digit code listed for your TV. If this is a valid code, the *TV* light will blink 3 times.

**NOTE:** If you enter an invalid code, the *TV* light will turn off. In that case, you will need to repeat steps 2 through 4 using another code.

5. Aim the remote at your TV and press *POWER* (#3) once. The TV should turn off. If it doesn't turn off, repeat steps 2-4, trying each code listed for your TV until you find the one that operates it. If your TV still doesn't work with the remote, try searching for the proper code. (See **Searching For The Code** on page 3.)



6. Write down your TV code for future reference.

**NOTE:** Remember, to use the remote to operate your TV, press *TV* (#1) first.

## **PROGRAMMING VCR CONTROL**

1. Turn on your VCR and insert a video cassette.

2. On the remote, press and hold *VCR* (#1) for at least 6 seconds. Wait for the programming mode to start. The light for each mode key (the four buttons across the top, just below the Motorola logo) will turn on and off in sequence, starting with *AUX* and continuing through *TV*. The sequence will repeat twice. During the sequence release the *VCR* key. Wait until the *VCR* button stays lit.

3. Locate the VCR setup code for your brand of VCR in the code list at the end of these instructions. Brands are listed in alphabetical order. The most popular codes are listed first.

4. Using the number keys on the remote (#11), enter the first four-digit code for your VCR. If this is a valid code, 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 using another code.

5. Aim the remote at your TV and press *POWER* (#3) once or *PLAY* (#13). If VCR 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 proper code. (See **Searching For The Code** on page 3.)

6. Write down your VCR code for future reference.

**NOTE:** Remember, to use the remote to operate your VCR, press *VCR* (#1) first.

Some TV/VCR Combo codes may require a separate TV code to control volume. Check the codes above and follow the instructions in Programming TV Control above 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 the cable converter.

## PROGRAMMING AUXILIARY COMPONENT CONTROL

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

1. Turn on your auxiliary component (and if it's a VCR, insert a video cassette).
2. On the remote, press and hold *AUX* (#1) for at least 6 seconds. Wait for the programming mode to start. The light for each mode key (the four buttons across the top, just below the Motorola logo) will turn on and off in sequence, starting with *AUX* and continuing through *TV*. The sequence will repeat twice. During the sequence release the *AUX* key. Wait until the *AUX* button stays lit.
3. Locate the setup code for your type of auxiliary unit (e.g., VCRs, TVs) or audio service in the code list at the end of these instructions. Brands are listed in alphabetical order with the most popular codes listed first.
4. Press *AUX*, *VCR*, *CABLE*, or *TV* (#1) once to let the remote know what type of device you want to assign to the *AUX* mode.
5. Using the number keys on the remote (#11) enter the first four-digit code listed for your auxiliary component. If this is a valid code, 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 another code.

6. Aim the remote at your auxiliary component and press *POWER* (#3) once or *PLAY* (#13) 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 remote, try searching for the code. (See **Searching for the Code** below.)

7. Write down the auxiliary component type and its code for future reference.

**NOTE:** Remember, to use the remote to operate your auxiliary component, press *AUX* (#1) first.

## SEARCHING FOR YOUR CODE

If the brand of your TV, VCR, or Auxiliary Component isn't included in the setup code list or if the unit does not respond to the remote after trying all of the codes listed for your brand, try searching for your code.

For example, after trying all of the codes for your TV, the TV doesn't respond to the remote:

1. Turn on the TV.
2. On the remote, press and hold *TV* (#1) for at least 6 seconds. Wait for the programming mode to start. The light for each mode key (the four buttons across the top, just below the Motorola logo) will turn on and off in sequence, starting with *AUX* and continuing through *TV*. The sequence will repeat twice. During the sequence, release the *TV* button. Wait until the *TV* button stays lit.
3. Press the  $\uparrow$ (#6) once to start the search mode.

**NOTE:** In the search mode, the remote will send 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* (#1)), the correct device code has been found.

4. Press *POWER* (#1) once. The *TV* button will blink on and off, showing that a code has been sent.
5. If your television does not turn off, press  $\uparrow$ (#6) again to call up the next code. Press *POWER* (#1) 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 the remote finds a valid code, your television will turn off. Press *OK* (#7) once to save the code. The *TV* (#1) button will blink three times, confirming the selection.
8. To search for codes for your other components, repeat steps 1 through 7. Substitute the appropriate device button (i.e., *VCR* or *AUX*) for the component that needs a code search.

## CHECKING THE CODES

When the remote is set up using the *Searching For Your Code* procedure, you can identify the four-digit code that is valid for your equipment by following the steps below. (Do this only after you have found a code that works!)

For example, to find out the code that is valid for your TV:

1. Turn on the TV.
2. On the remote, press and hold *TV* (#1) for at least 6 seconds. Wait for the programming mode to start. The light for each mode key (the four buttons across the top, just below the Motorola logo) will turn on and off in sequence, starting with *AUX* and continuing through *TV*. The sequence will repeat twice. Release the *TV* button. Wait until the *TV* button stays lit.
3. Press 9 - 9 - 0. The *TV* button will blink three times.
4. To view the first digit of the code, press and release number 1 (#1). Count the number of *TV* button blinks (e.g., 3 blinks = 3) and write down the number. If the *TV* button does not blink, the code digit is "0".
5. Repeat step 4 three more times, once for each remaining number in the code. Write down the four digits of the code for future reference.
6. To check for the codes of your other components, repeat steps 1 through 5 beginning the process with the appropriate device button (i.e., *VCR*, or *AUX*) for the component you are checking.

## **CHANGING VOLUME LOCK**

**This procedure is NOT required for changing the volume while you are using your TV or VCR. See Adjusting the Volume in the Online Users Manual.**

Your new remote is set to control the 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 volume can not be controlled by remote 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 remote, press and hold *TV* (#1) for at least 6 seconds. Wait for the programming

mode to start. The light for each mode key (the four buttons across the top, just below the Motorola logo) will turn on and off in sequence, starting with *AUX* and continuing through *TV*. The sequence will repeat twice. Release the *TV* button. Wait until the *TV* button stays lit.

2. Press and release *VOLUME + (#9)*.

3. The *TV* button light will blink three times to show that volume control has been locked to the TV mode.

4. Now, whenever you press *VOLUME + (#9)*, *VOLUME - (#9)*, or *MUTE (#15)* on the remote, volume will be controlled by your TV.

#### **To change the Volume Lock setting to the CABLE mode:**

1. On the remote, press and hold *CABLE(#1)* for at least 6 seconds. Wait for the programming mode to start. The light for each mode key (the four buttons across the top, just below the Motorola logo) will turn on and off in sequence, starting with *AUX* and continuing through *TV*. The sequence will repeat twice. Release the *CABLE* button during this sequence. Wait until the *CABLE* button stays lit.

2. Press and release *VOLUME + (#9)*.

3. The *CABLE* button light will blink three times, indicating volume has been locked to the CABLE mode.

4. Now, whenever you press *VOLUME + (#9)*, *VOLUME - (#9)*, or *MUTE (#15)* on the remote, volume will be controlled by your Cable Converter.

#### **To change the Volume Lock setting to the AUX mode:**

1. On the remote, press and hold *AUX (#1)* for at least 6 seconds. Wait for the programming mode to start. The light for each mode key (the four buttons across the top, just below the Motorola logo) will turn on and off in sequence, starting with *AUX* and continuing through *TV*. The sequence will repeat twice. Release the *AUX* button during this sequence. Wait until the *AUX* button stays lit.

2. The *AUX* button light will blink three times, indicating volume has been locked to the AUX mode.

3. Now, whenever you press *VOLUME + (#9)*, *VOLUME - (#9)*, or *MUTE (#15)* on the remote, volume will be controlled by your Auxiliary Device.

#### **To unlock Volume Lock:**

1. On the remote, press and hold a mode button (#1) for at least 6 seconds. Wait for the programming mode to start. The light for each mode key (the four buttons across the top, just below the Motorola logo) will turn on and off in sequence, starting with *AUX* and continuing through *TV*. The sequence will repeat twice. Release the mode button during this sequence. Wait until the button stays lit.
2. Press and release *VOLUME –* (#9).
3. The mode key light will blink three times, indicating volume has been unlocked for the selected mode.
4. Now, whenever you press *VOLUME +* (#9), *VOLUME -* (#9), or *MUTE* (#15) on the remote, the volume controls will reset to their original device.

## **TROUBLESHOOTING**

**PROBLEM:** A mode key does not blink or blinks only 2 times when you press a key.

**SOLUTION:** Replace the batteries with two (2) new AA alkaline batteries. Instructions for battery replacement are included in the Online Users Manual.

**PROBLEM:** A mode key blinks when you press a key, but home entertainment component does not respond.

**SOLUTION:** Make sure the remote control is aimed at your home entertainment component and is within 15 feet of the component.

**PROBLEM:** The remote doesn't control components or the commands are not working properly.

**SOLUTION:** Try all listed codes for the brands of components you are using. 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. You may need to set both a TV code and a VCR code for full operation.

**PROBLEM:** There is no volume on a 2nd TV.

**SOLUTION:** Follow instructions in *Changing Volume Lock*.

**PROBLEM:** *CHANNEL+* (#20), *CHANNEL-* (#20), and *LAST* (#19) do not work for your RCA TV.

SOLUTION: For some RCA TV sets (1983- 1987), only the original TV remote control can operate these functions.

PROBLEM: Changing channels does not work properly.

SOLUTION: If the remote control supplied with the TV set required pressing ENTER to change channels, press *ENTER* (#22) on the remote after pressing the channel number.

### **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  
Clairtone- 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  
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  
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  
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

### **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  
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  
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  
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  
Videasonic - 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

**Remote Setup Codes for Miscellaneous Audio Services:**

General Instrument - 0201, 0200  
Scientific Atlanta - 0202