PHILIPS MAGNAVOX

REM110
Universal Remote

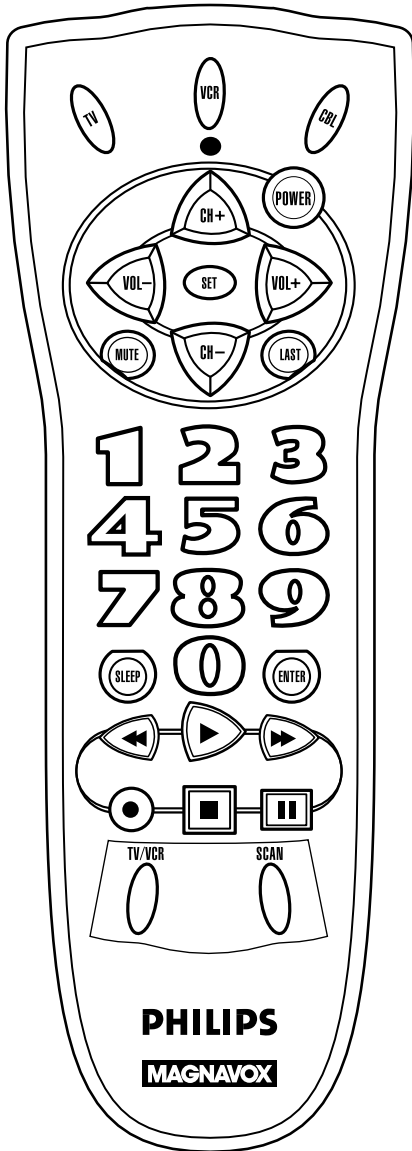**PHILIPS**
MAGNAVOX

Thank you for purchasing a Philips Magnavox 3 device universal remote control. This universal remote control will operate your Television, Video Cassette Recorder, and Cable Converter Box. Before you can use your new remote control, you will need to program it to operate the specific components you wish to control. This remote features:

• Channel Scan, a convenient way to "channel surf" by scanning channels.

• Auto Scan code search to help program remote control for a variety of components, including older/discontinued models.

• Built-in Sleep Timer.

• Controls for basic functions, including Power, Channel Selection, Volume, Play and Record.

KEYS AND FUNCTIONS
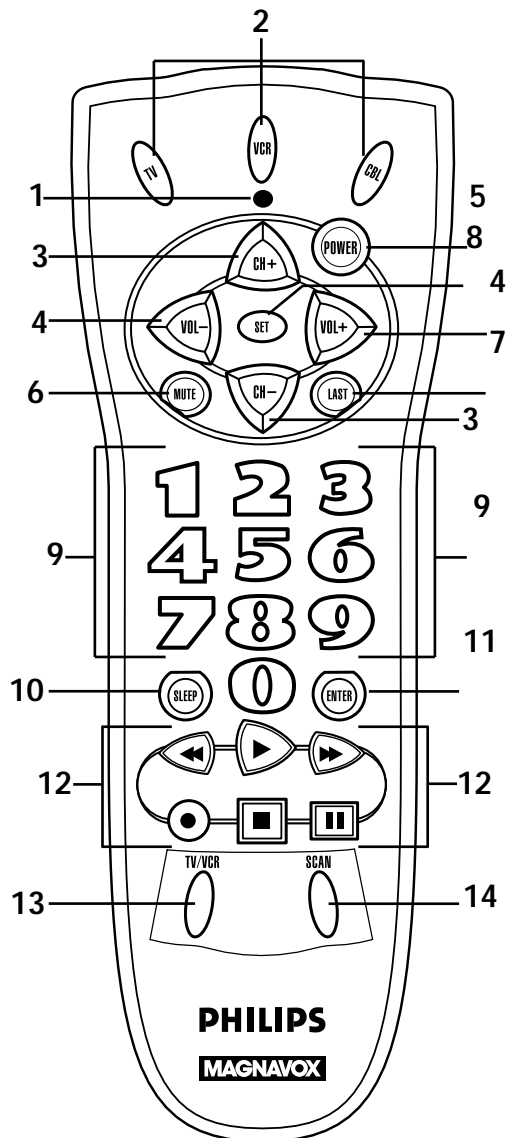
1 **Red Indicator Light**
The Red Indicator Light blinks to show that the remote control is working and also provides feed back during programming sequences.

2 **Component Keys**
Press **TV**, **VCR** or **CBL** once to select a home entertainment component to control.

3 **CH Keys**
Use **CH+** (or **CH-**) to select the next higher (or lower) channel for the selected home entertainment component.

4 **VOL Keys**
Use **VOL+** (or **VOL-**) to raise (or lower) the sound volume.

5 **POWER Key**
Press **POWER** once to turn on or off the selected home entertainment component.

6 **MUTE Key**
Press **MUTE** once to turn sound off or on.

7 **LAST Key**
Press **LAST** once to recall the last channel.

8 **SET Key**
Use **SET** for all programming sequences.

9 **Keypad**
Use the keypad **(0-9)** to directly enter in channels (for example, 09 or 31). The keypad is also used for all programming sequences, such as entering in your programming codes.

10 **SLEEP Key**
Press **SLEEP** to activate your TV's internal sleep timer (not available for all TVs) or to program timer.

11 **ENTER**
Use **ENTER** once after entering channel numbers on some TV models.

12 **VCR Transport Keys**
Use the VCR Transport Keys to control your VCR. Press **REC** twice to record a tape.

13 **TV/VCR**
Press **TV/VCR** once to view VCR playback or TV through the VCR.

14 **SCAN Key**
Press **SCAN** once to change channels every 3 seconds. Press it again to stop the scan.

SETTING UP YOUR REMOTE CONTROL

Before using your new remote control, you will need to obtain and install new batteries, as described on the next page. Then you'll also need to program the remote control with the correct code numbers for your specific components. See instructions starting on page 4.
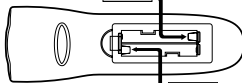
ABOUT BATTERIES

Note: The remote requires two (2) new "AA" alkaline batteries (not supplied). Do not mix old and new batteries or mix alkaline with manganese-type batteries.
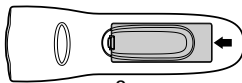
Installing Batteries
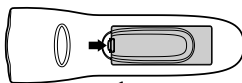
1. On the back of the remote control, push the tab and lift the battery compartment cover off.

2. Match the + and – marks on the batteries to the + and – marks in the battery case and insert two (2) "AA" alkaline batteries.

3. Press the battery cover back into place. The tab should click when the cover is locked.

4. Test the unit by pressing **POWER** and any Component key (e.g., **TV**, **VCR**, **CBL**). If the batteries are inserted correctly the red indicator light will blink once.

Battery Saver

The remote has a *Time Out* feature that will automatically deactivate the remote control if a key is depressed for more than 30 seconds. This feature will help conserve the battery life should your remote control get stuck in a place where keys remain depressed (e.g., between the sofa cushions).

Replacement and Code Saver

When the batteries need replacing the remote control will stop working and will require two (2) new "AA" alkaline batteries for continued operation. Once you remove the old batteries, program settings and codes will be saved for 10 minutes, allowing adequate time to insert new ones.

However, if you do not replace the batteries within the allotted time (e.g., 10 minutes), you will have to reprogram the remote control.

PROGRAMMING YOUR REMOTE CONTROL

Philips/Magnavox Components

The remote control can control up to three different components and is already pre-programmed for use with newer Philips/Magnavox audio/video equipment. Unless you want to change a factory setting, skip the programming instructions and simply start using your new remote control.

Programming Other Components

To control component brands other than Philips/Magnavox, you'll need to perform the following steps to manually program the remote with codes listed under Manufacturer's Codes on pages 23 through 28. Or as an alternative, you can use the Auto Scan feature, on page 5, to program your component codes.

The following chart lists the remote component keys and what type of device each key will control:

Key	Programmed to Control
TV	TV
VCR	VCR
CBL	Cable Box

IMPORTANT: Please completely read and review the following steps before proceeding. We recommend highlighting the codes (starting on page 23), for the brands you wish to program or writing them down in the supplied chart.

Setup Codes for My components

TV	___	___	___	___
VCR	___	___	___	___
CBL	___	___	___	___

To Manually Program the Remote Control:

1. Manually turn on a component (e.g., TV, VCR, etc.) and, if applicable, insert media (e. g., cassette).

2. On the remote control, press a component key once (e.g., **TV**, **VCR**, **CBL**).

3. Press and hold **SET** (approximately 5 seconds) until the red light blinks twice, then release **SET**.

4. Enter the first four-digit code for your brand of component. If performed correctly, the red light will blink twice.

5. Aim the remote control at the component and press **POWER** ONCE. It should turn off. If it does not respond, repeat steps 2 and 3, trying each code for your brand until you find one that works. If it still does not work, try using Auto Scan (see below) on how to program your component.

6. Repeat steps 1 through 5 for each component you want to program into the remote control.

NOTES: Press each key within 10 seconds of the previous entry. Otherwise, the remote control will exit the programming mode.

If you press **SET** at any time (except during step 3), the remote control will exit the programming mode without saving your entries. You will have to start with step 1 to begin programming again.

Programming With Auto Scan

If your component does not respond to the remote control after trying all codes listed for your brand, or if your brand is not listed at all, try searching for your code using **Auto Scan**. For example, to search for a code for a TV:

1. On the remote control, press **TV** once.

2. Press and hold **SET** until the red light blinks twice, then release **SET**.

3. Aim the remote control at the TV and press **SCAN**. The red light will blink twice.

4. Continue aiming the remote control at the TV (which may take up to 5 minutes) until it turns off. Immediately press any key except **VOL-, SCAN,** or **SET**.

If **SCAN** is pressed again after any key stops **Auto Scan**, the remote will continue **Auto Scan** of the next ID from where it stopped.

If you have passed by the code that turns off the TV, press **VOL-** one or more times until the TV turns on again.

5. To lock in the code and exit Auto Scan, press and release **SET** the red light will blink twice.

6. To search for codes of other components, repeat steps 2 through 5, but substitute the appropriate key (e.g., VCR, CBL) for the (VCR or Cable) component you are searching for.

NOTES: In the search mode, the remote will send IR (infrared) codes from its library to the selected device, starting with the most popular code first.

Checking the Auto Scan Codes

If you have set up the remote control using Auto Scan, you can now find out which four-digit code is operating your component:

1. On the remote control, press a component key once (e.g., **TV, VCR, CBL**).

2. Press and hold **SET** until the red light blinks twice, then release **SET**.

3. Enter **9-9-0**. The red light will blink twice.

4. To view the code for the first digit, press **1** once. Wait 3 seconds, count the red light blinks (e. g., 3 blinks = 3) and write down the number.

NOTE: If a code digit is "0" , the red light will not blink.

5. Repeat step 4 three more times for remaining digits. Use **2** for the second digit, **3** for the third digit and **4** for the fourth digit.

6. To find codes of other components, repeat steps 1 through 5, but substitute the appropriate key (e.g., **VCR** or **CBL**) for the component you are checking. As before, write down each four-digit code.

ABOUT OTHER FEATURES

Volume Lock

The remote control is set at the factory to control the volume independently while in the TV, VCR, and CBL modes.

To control the volume from one mode (e. g., **TV**) while in another mode (e.g., **VCR** or **CBL**), perform the instructions below to lock the volume setting.

1. On the remote control, press **TV** once.

2. Press and hold **SET** until the red light blinks twice, then release **SET**.

3. Press **VOL+**. The red light will blink twice.

Punch Through

The VCR Transport keys (e.g., **REW, PLAY, FFWD, REC, STOP, AND PAUSE**) are set at the factory to control the VCR even if **TV** or **CBL** is the selected mode. In other words, VCR control "punches through" regardless of what mode is on. Moreover, you do not have to press VCR before pressing the mode key.

Sleep Feature

Press **SLEEP** key to activate your component's internal sleep timer. (May not be available for all components.) If the component does not have a sleep function, the first press of the **SLEEP** key activates the remote's built-in sleep timer. Timer can be set to a maximum of 90 minutes.

To Set the Remote's Built-in Timer

1. Press **SLEEP** key once, 15 minute timer is set. Red light blinks once.

2. Additional key presses within 10 seconds will increase the timer value in 15 minute increments up to a maximum of 90 minutes. For each press of the **SLEEP** key, the red light will blink to indicate how many 15 minute increments have been programmed, e.g., one blink for first press, two blinks for the second press, etc. Sleep timer activates 10 seconds after the last press of the **SLEEP** key. The red light will blink once every 15 seconds to indicate that the timer is running.

NOTE: Once the sleep timer is running, the sleep timer is automatically canceled if any other key is pressed. The remote IR must be pointed to the component to turn off component when timer ends.

To Activate Built-in Sleep Timer if component has Sleep function

1. On the remote control, press a component key once (e.g., **TV, VCR, CBL**).

2. Press and hold **SET** until the red light blinks twice, then release **SET**.

3. Enter **9-7-0**. The red light will blink twice.

4. Follow instructions above to Set Timer.

To reset to component Sleep function follow steps 1 through 3 above. At the end of step three, the red light will blink four times to indicate the remote is reset to component Sleep function.

QUICK FEATURES SETUP GUIDE

This guide is provided here for your convenience as a quick reference for performing remote control sequences.

Component Setup

Turn on component (e.g., TV).	Press component key once (e.g., TV).	Press SET until Red Light blinks twice; release SET.	Enter 4-digit code for your brand; Red Light blinks twice after last #.	Press POWER once; if no response, repeat steps with next code.
1	2	3	4	5

Auto Scan

Turn on component (e.g., TV).	Press component key once (e.g., TV).	Press SET until Red Light blinks twice; release SET.	Aim remote at component; press SCAN once. When off, press any key* to stop.	Press SET until Red Light blinks twice; release SET to lock code.
*NOTE: Not VOL-, SCAN, or SET.				
1	2	3	4	5

Code Verification

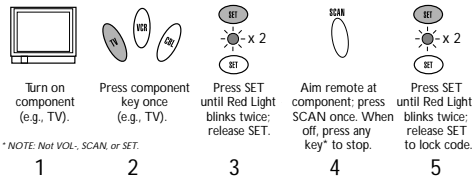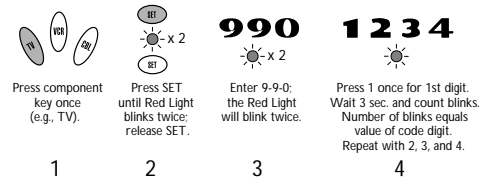|			
Press component key once (e.g., TV).	Press SET until Red Light blinks twice; release SET.	Enter 9-9-0; the Red Light will blink twice.	Press 1 once for 1st digit. Wait 3 sec. and count blinks. Number of blinks equals value of code digit. Repeat with 2, 3, and 4.
1	2	3	4

Volume Lock

Press component* key once (e.g., CBL).	Press SET until Red Light blinks twice; release SET.	Press VOL+ once. Volume now controlled through component selected in step 1.
*NOTE: Component must have volume capabilities.		
1	2	3

TROUBLESHOOTING

PROBLEM:	SOLUTION:
Red Indicator Light does not blink when you press a key.	Replace the batteries with two (2) "AA" alkaline batteries (see Page 4).
The **VOL+, VOL-** and **MUTE** keys are not functional.	Make sure that the volume control is locked to a component that has volume capabilities and is programmed into the remote control.
Red Indicator Light blinks when you press a key, but home entertainment component does not respond.	Make sure you are aiming the remote control at your home entertainment component and that you are within 15 feet of the component you are trying to control.
The remote control does not control home entertainment components or commands are not working properly.	Try all listed codes for the component brand being set up. Make sure all components can be operated with an infrared remote control.
CH+, CH- and **LAST** do not work for your RCA TV.	Due to an RCA design (1983-1987), only the original remote control will operate these functions.
Changing channels does not work properly.	If original remote control required pressing **ENTER** to change channels, to change channels, press **ENTER** on the remote after entering a channel number.
Tried Auto Scan and still could not find a working code.	Try Auto Scan again after clearing out the component key as follows: Press and hold **SET** until Red Light blinks twice, then release. Next enter **9-9-2**. Then press and release the component key to be cleared twice.

NOTE: To clear all set up codes and restore functions to Default, press SET until red light blinks twice, release **SET** and enter **9-8-1**. Caution: When this clear feature is performed, please note that all of your set up codes will be reset to the default codes and you will need to reprogram components.

SETUP CODES FOR TELEVISION
CÓDIGOS DE PROGRAMACIÓN PARA TELEVISIÓN
CODES DE PROGRAMMATION DU TÉLÉVISEUR

Brand	Code
AOC	0048, 0059
Admiral	0122, 0492
Aiko	0121
Akai	0059
Alaron	0208
America Action	0209
Anam	0209
Audiovox	0121, 0209, 0480
Baysonic	0209
Belcor	0048
Bell & Howell	0045, 0183
Bradford	0209
Brockwood	0048
Broksonic	0265, 0492
CXC	0209
Candle	0059, 0085
Carnivale	0059
Carver	0083
Celebrity	0029
Cineral	0121, 0480
Citizen	0059, 0085, 0089, 0121
Concerto	0085
Contec	0209
Craig	0209
Crosley	0083
Crown	0209
Curtis Mathes	0045, 0059, 0076, 0080, 0083, 0085, 0089, 0122, 0174, 0183, 0195, 0480
Daewoo	0048, 0121, 0480
Daytron	0048
Denon	0174
Dumont	0046, 0048
Electroband	0029
Emerson	0048, 0183, 0207, 0208, 0209, 0265, 0492
Envision	0059
Fisher	0183
Fujitsu	0208
Funai	0200, 0208, 0209
Futuretech	0209
GE	0050, 0076, 0080, 0122, 0207, 0480
Gibralter	0046, 0048, 0059
GoldStar	0048, 0059, 0085, 0207
Gradiente	0082, 0085
Grunpy	0208, 0209
Hallmark	0207
Harley Davidson	0208
Harman/Kardon	0083
Harvard	0209
Hitachi	0045, 0085, 0174
Infinity	0083
Inteq	0046
JBL	0083
JCB	0029
JVC	0082
KEC	0209
KTV	0059, 0209
Kenwood	0048, 0059
LG	0085
LXI	0076, 0083, 0183, 0185, 0207
Logik	0045
Luxman	0085
MGA	0048, 0059, 0179, 0207
MTC	0048, 0059, 0085, 0089
Magnavox	0059, **0083***, 0208
Majestic	0045
Marantz	0059, 0083
Matsushita	0279
Megatron	0174, 0207
Memorex	0045, 0085, 0179, 0183, 0207, 0279, 0492
Midland	0046, 0076, 0080
Minutz	0050
Mitsubishi	0048, 0122, 0179, 0207
Motorola	0122
Multitech	0209
NAD	0185, 0195, 0207
NEC	0048, 0059, 0085
NTC	0121
Nikko	0059, 0121, 0207
Onwa	0209
Optimus	0183, 0195, 0279
Optonica	0122
Orion	0208, 0265, 0492
Panasonic	0080, 0279
Penney	0048, 0050, 0059, 0076, 0080, 0085, 0089, 0185, 0207
Philco	0048, 0059, 0083, 0174, 0492
Philips	0083
Pilot	0048, 0059
Pioneer	0195
Portland	0048, 0121
Prism	0080
Proscan	0076
Proton	0207
Pulsar	0046, 0048
Quasar	0080, 0279
RCA	0048, 0076, 0080, 0119, 0122, 1476
Radio Shack	0048, 0059, 0076, 0085, 0183, 0207, 0209
Realistic	0048, 0059, 0085, 0183, 0207, 0209
Runco	0046, 0059
SSS	0048, 0209
Sampo	0059

* **Default code**

Samsung	0048, 0059, 0085, 0089, 0207
Sansei	0480
Sansui	0492
Sanyo	0183
Scimitsu	0048
Scotch	0207
Scott	0048, 0207, 0208, 0209, 0265
Sears	0076, 0083, 0085, 0183, 0185, 0200, 0207, 0208
Semivox	0209
Semp	0185
Sharp	0122
Shogun	0048
Signature	0045
Sony	0029
Soundesign	0207, 0208, 0209
Squareview	0200
Starlite	0209
Supreme	0029
Sylvania	0059, 0083
Symphonic	0200
TMK	0085, 0207
Tandy	0122
Technics	0080, 0279
Technol Ace	0208
Techwood	0080, 0085
Teknika	0045, 0048, 0083, 0085, 0089, 0121, 0179, 0208, 0209
Telefunken	0085
Toshiba	0089, 0183, 0185
Vector Research	0059
Victor	0082
Vidikron	0083
Vidtech	0048, 0207
Wards	0045, 0048, 0050, 0059, 0083, 0085, 0207, 0208
White Westinghouse	0492
Yamaha	0048, 0059
Zenith	0045, 0046, 0121, 0492

SETUP CODES FOR VCR
CÓDIGOS DE PROGRAMACIÓN PARA VIDEOCASETERA.
CODES DE PROGRAMMATION DU MAGNÉTOSCOPE.

Admira	0077, 0238
Adventura	0029
Aiko	0307
Aiwa	0029, 0066
America Action	0307
American High	0064
Asha	0269
Audiovox	0066
Beaumark	0269
Bell & Howell	0133
Broksonic	0031, 0150, 0213, 0238
CCE	0101, 0307
Calix	0066

Canon	0064
Carver	0110
Cineral	0307
Citizen	0066, 0307
Colt	0101
Craig	0066, 0076, 0101, 0269, 0300
Curtis Mathes	0064, 0089, 0191
Cybernex	0269
Daewoo	0074, 0307
Denon	0071
Dynatech	0029
Electrohome	0066
Electrophonic	0066
Emerex	0061
Emerson	0029, 0031, 0066, 0072, 0150, 0213, 0238, 0307
Fisher	0076, 0133
Fuji	0064
Funai	0029
GE	0064, 0077, 0089, 0269
Garrard	0029
GoldStar	0066
Gradiente	0029
HI-Q	0076
Harley Davidson	0029
Harman/Kardon	0110
Harwood	0101
Hitachi	0029, 0071
Hughes Network Systems	0071
JVC	0096
KEC	0066, 0307
KLH	0101
Kenwood	0096
Kodak	0064, 0066
LXI	0066
Lloyd's	0029
Logik	0101
MEI	0064
MGA	0072, 0269
MGN Technology	0269
MTC	0029, 0269
Magnasonic	0307
Magnavox	0029, 0064, 0068, **0110***
Magnin	0269
Marantz	0064, 0110
Marta	0066
Matsushita	0064, 0191
Memorex	0029, 0064, 0066, 0068, 0076, 0077, 0133, 0238, 0269, 1191
Minolta	0071
Mitsubishi	0072, 0077, 0096
Motorola	0064, 0077
Multitech	0029, 0101
NEC	0096, 0133
Nikko	0066

* **Default code**

Noblex	0269
Olympus	0064
Optimus	0066, 0077, 0133, 0191, 1191
Orion	0031, 0213, 0238
Panasonic	0064, 0191, 0254, 1191
Penney	0064, 0066, 0071, 0269
Pentax	0071
Philco	0064, 0238
Philips	0064, 0110
Pilot	0066
Pioneer	0096
Profitronic	0269
Proscan	0089
Protec	0101
Pulsar	0068
Quasar	0064, 0191, 1191
RCA	0064, 0071, 0077, 0089, 0269
Radio Shack	0029
Radix	0066
Randex	0066
Realistic	0029, 0064, 0066, 0076, 0077, 0133
Runco	0068
STS	0071
Samsung	0074, 0269
Sanky	0068, 0077
Sansui	0029, 0096, 0238, 0300
Sanyo	0076, 0133, 0269
Scott	0072, 0074, 0150, 0213
Sears	0029, 0064, 0066, 0071, 0076, 0133
Semp	0074
Sharp	0077
Shintom	0101
Shogun	0269
Singer	0101
Sony	0029, 0061, 0064
Sylvania	0029, 0064, 0072, 0110
Symphonic	0029
TMK	0269
Teac	0029
Technics	0064, 0191
Teknika	0029, 0064, 0066
Thomas	0029
Toshiba	0072, 0074
Totevision	0066, 0269
Unitech	0269
Vector	0074
Video Concepts	0074
Videosonic	0269
Wards	0029, 0064, 0071, 0076, 0077, 0089, 0101, 0110, 0269
White Westinghouse	0238, 0307
XR-1000	0029, 0064, 0101
Zenith	0029, 0068, 0238

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SETUP CODES FOR CABLE

CÓDIGOS DE PROGRAMACIÓN PARA CABLE
CODES DE PROGRAMMATION DU CÂBLORÉCEPTEUR

ABC	0032, 0036, 0037, 0043, 0046
Americast	0928
Archer	0826
Bell & Howell	0043
Bell South	0928
Contec	0048
Emerson	0826
Everquest	0044
Gemini	0044, 0826
General Instrument	0305, 0505, 0839
GoldStar	0173
Goodmind	0826
Hamlin	0049
Hytex	0036
Jasco	0044
Jerrold	**0032***, 0041, 0043, 0044, 0305, 0505, 0839
Magnavox	0056
Memorex	0029
Oak	0036, 0048
Panasonic	0029, 0136
Paragon	0029
Philips	0056
Pioneer	0173, 0562, 0906
Pulsar	0029
Quasar	0029
Radio Shack	0044, 0826
Regal	0049
Runco	0029
Samsung	0173
Scientific Atlanta	0037, 0046, 0506, 0906
Signal	0044
Starcom	0032, 0044
Stargate	0044, 0826
Starquest	0044
Tocom	0041
Toshiba	0029
Tusa	0044
United Artists	0036
Viewstar	0056
Zenith	0029, 0554, 0928

* **Default code**

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