



## Remote Control Buttons

### Select (CBL VCR DVD SAT AMP) and Backlight

Press this button to cycle across the accessory mode dial. Stop pressing when the mode you desire is lighted. The light will stay on for 2 seconds and then begin blinking to indicate the remote is in your desired mode. As long as the button blinks, the remote is in the accessory mode. (See pages 22–25 for programming the remote) Pressing and holding the Select button for 2 seconds backlights the remote control buttons. The buttons remain lighted for 5 seconds after you press Select.

### Information Plus

Press to show information (when available) about the current channel, program, source, number or name, local time, CC availability, SAP availability, program ratings, display format, sound mode, and remaining length of a Sleep timer setting.

### TV

Press to directly set the TV into the TV Mode of operation.

### CC (Closed Captioning)

Press to turn Closed Captioning off, on, or on during mute. (See page 47 in the *Directions for Use* manual.)

### Surf

If you set the Surf control in the TV's on-screen menu to two channels, this button will allow you to toggle between the current channel and the last viewed channel. If you choose the nine-channel Surf, pressing this button allows you to add and scroll up to nine of your favorite channels. See page 57 in the *Directions for Use* manual.

### OK

Press to activate or confirm menu choices.

### Dual Screen/PIP (Picture-in-Picture)

Press to turn the PIP dual screen on or off. Continuing to hold the Dual Screen/PIP button down will cycle through the Dual Screen/PIP options. (See page 58 in the *Directions for Use* manual.)

### VOL (Volume)

Press + or – to adjust the volume.

### Mute

Press to interrupt or restore sound.

### Source (AV+)

Press to display a list of source options—TV, AV1, AV2, AV3, AV4, AV5, AV6, or Side. Use the Cursor Up/Down buttons to select the next item, then press the OK button to confirm or press the Source Select button to select the next item in the list.

### Alternate Audio (SAP)

When you tune to a channel where SAP (Second Audio Program) is available, you can toggle between Main and SAP. If SAP is not available, only Main can be selected. (See page 42 in the *Directions for Use* manual.)

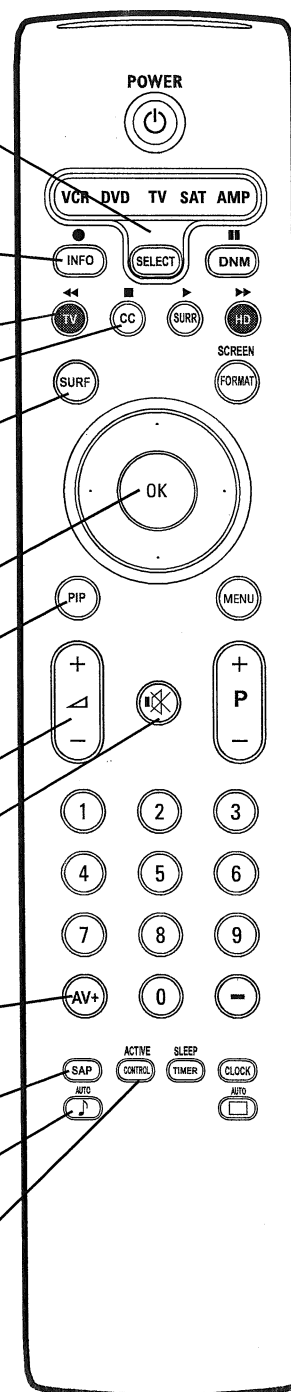
### AutoSound™

Press to select the next item in the AutoSound™ menu. The factory-set options are Speech, Music, Movies, and Multimedia, each corresponding with specific settings of treble and bass. You can also select the Personal option, which is based on the adjustments you make through the Sound menu. (See page 46 in the *Directions for Use*.)

### Active Control™ Plus

**NOTE:** Active Control™ Plus is not available for use with the AV3, AV4, AV5, and AV6 input sources.

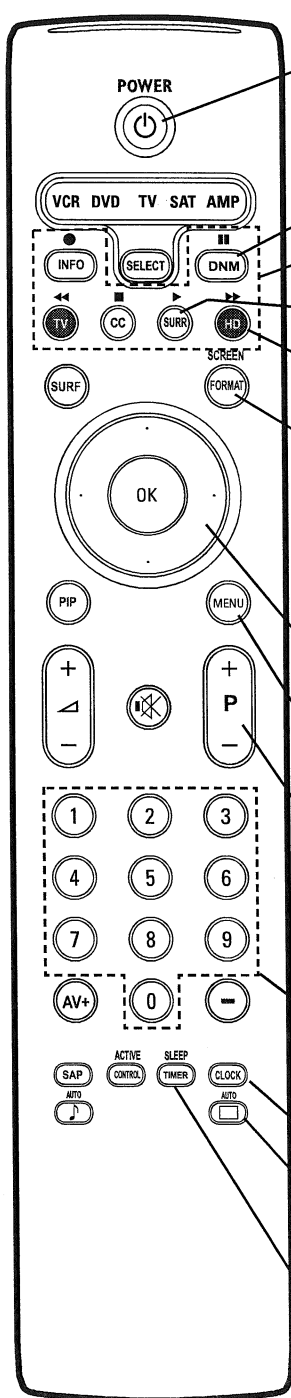
Press to toggle the options Off, Minimum, Medium, and Maximum. Maximum is the recommended option. (See page 28 in the *Directions for Use* manual.)



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\*Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

# Remote Control Buttons



## Standby-On (Power)

Press to turn the TV on or off.

**NOTE:** The TV is never powered off completely unless it is physically unplugged from the power source.

## DNM

Press to turn the Digital Natural Motion function on or off.

## VCR/DVD Mode

When in the remote control is in the VCR (DVD) mode of operation, these buttons will allow you record, rewind, stop playback, play, or fast-forward playback.

## Surround Sound

Press to display a list of available sound modes. Choose from Incredible Surround™ and Dolby\* Virtual settings. (See page 41 in the *Directions for Use* manual)

## HD

Press to activate the AV6 (High Definition) jacks and place the TV into the High Definition Mode of operation.

## Screen Format

Press to display a list of available picture formats for showing video images in the traditional 4:3 proportions. Press this button repeatedly to select a picture format. Choose from Automatic, Super zoom, Panoramic, 4:3, Movie expand 14:9, Movie expand 16:9, 16:9 subtitle, and Wide screen. See pages 35–36 in the *Directions for Use* manual.

## NOTES:

- With AV3–AV6 connections, the Automatic picture format option is not available.
- In Dual Screen mode, press the Picture Format button to switch between a full or 4:3 letterbox picture format.

## Cursor Up, Down, Right, Left

Use to navigate the on-screen menu and make control adjustments or settings.

Additionally, use these buttons to pan the screen up or down to show any excluded parts of the picture.

## Menu On/Off

Press to display the TV's on-screen menu or to turn it off.

## CH (Channel Selection)

Press to browse through the TV channels.

## Digit (Number Buttons)

Press to directly access a specific TV channel. For a two- or three-digit channel, enter all numbers. Press a single- digit button and hold a bit longer to directly access a single-digit channel. These buttons can also be used to enter values in certain on-screen menu controls.

## Clock (Time Display)

Press to display the current time on the TV screen. (See page 65 in the *Directions for Use* manual to set the clock)

## AutoPicture™

Press to select the next item in the AutoPicture™ menu. The factory-set options are Rich, Natural, Soft, Multimedia, and Eco, each corresponding with specific factory settings of Contrast, Color, Sharpness, DNR, Dynamic Contrast, and Color enhancements. You can also select the Personal option, which is based on the adjustments or settings you make through the Picture menu. (See page 34 in the *Directions for Use*.)

## Sleeptimer

Press to set the sleeptimer feature to turn the TV off automatically. You can choose—5 minutes up to 180 minutes in 5-minute increments.



## Programming the Remote Control

Your TV remote control can operate accessory devices such as cable boxes, VCRs, DVD players, satellite receivers, and amplifiers.

Normally, the remote is in TV mode. You must press the Select button to switch the remote to one of the accessory modes—CBL, VCR, DVD, SAT, or AMP.

It is likely you will need to program your remote, but, before you do, try this test:

- Press the Select button repeatedly until the mode you desire lights up. When the light begins blinking, point the remote toward the accessory device, then press the Standby-On button. If the device responds you do not need to program the remote. If not, follow the steps below to program the remote.

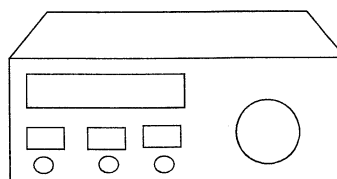
**1** Look up the number for the device on the list below:

- 1 Cable (CBL)
- 2 VCR
- 3 DVD
- 4 Satellite (SAT)
- 5 Amplifier (AMP)

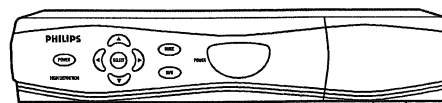
Look up the number for the manufacturer on pages 24–25.

**2** Press the Select and Standby-On buttons at the same time, then release.

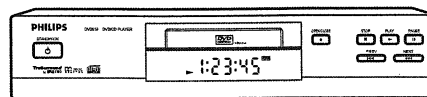
**3** Press the number for the device followed by the manufacturers code. The green Standby-On light will blink, indicating the code is valid. If the light does not blink, start again at step 1 using another code (if available).



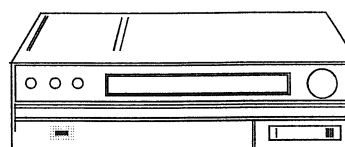
AMP



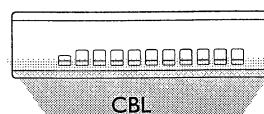
SAT



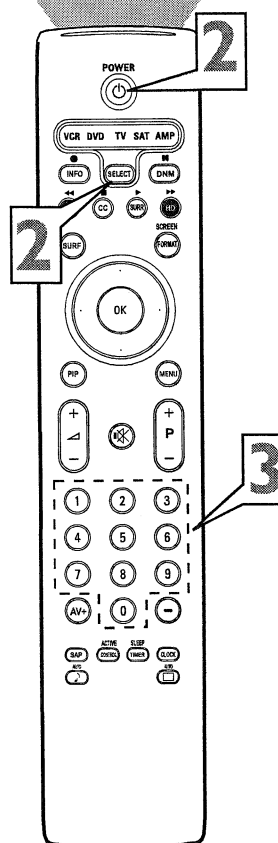
DVD



VCR



CBL



## Programming the Remote Control



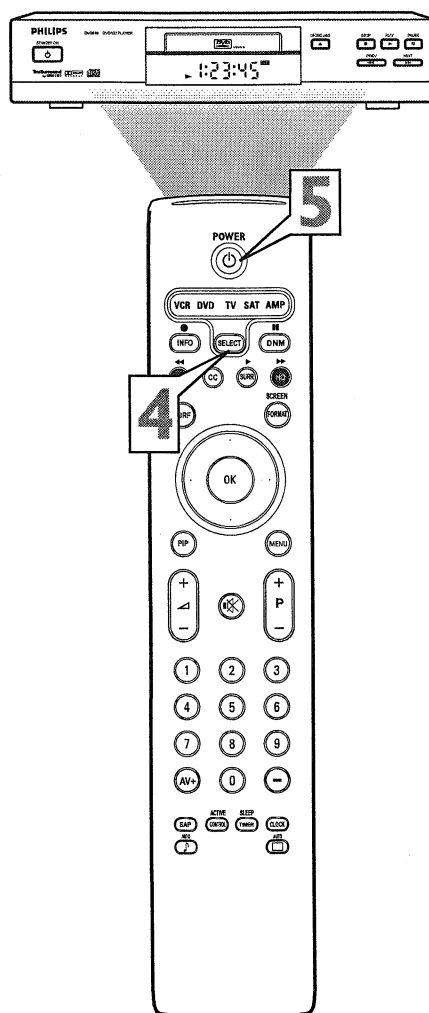
Now try to use the remote control with the accessory device to see if it is correctly programmed.

**4** Press the Select button on the remote to select the type of device. When the mode you desire lights up, stop pressing the button. When the light begins blinking the remote is ready for use with the device.

**5** Press the Standby-On button. As long as the light keeps blinking, you can use the remote with the selected device. Once the light disappears, the remote is back in TV mode.

If the device does not respond to the Standby-On command, repeat steps 1-6 using a different code. If there are no other for the type and brand of accessory device, the remote likely will not operate your particular model of accessory device.

**NOTE:** Your TV remote is not necessarily capable of operating all models of the brands of accessory devices listed on pages 24-25. You may want to try the programming process again. Try using the number(s) that are listed for your type and brand of device to be sure you did not make a mistake in inputting the digits during your first attempt at programming.



### ☒ CHECK IT OUT

You can change the duration of the time-out mode by simultaneously pressing the Select button and a digit button, 1-4. Using digit 1 will set the time-out to 15 seconds; digit 2, 30 seconds; digit 3, 60 seconds; and digit 4, 120 seconds. The default time-out setting after you replace the batteries in the remote is 60 seconds. All modes will have the same time-out setting.

### HELPFUL HINT

If the remote control is in one of the accessory modes (a mode light is flashing)—CBL, VCR, DVD, SAT, AMP—and you don't press any of the remote buttons for sixty seconds, a "time-out" occurs, returning the remote to TV mode.



# Programming the Remote Control: Setup Codes

## Amplifier

|               |             |
|---------------|-------------|
| Carver        | .0296       |
| Curtis Mathes | .0327       |
| GE            | .0105       |
| JVC           | .0358       |
| Linn          | .0296       |
| Magnavox      | .0296       |
| Marantz       | .0296       |
| Optimus       | .0422, 0327 |
| Philips       | .0296       |
| Pioneer       | .0327       |
| Polk Audio    | .0296       |
| RCA           | .0327       |
| Realistic     | .0422       |
| Sony          | .0716, 0247 |
| Soundesign    | .0105       |
| Victor        | .0358       |
| Wards         | .0105       |
| Yamaha        | .0381       |

## Cable Box

|                    |                                |
|--------------------|--------------------------------|
| ABC                | .0030, 0034, 0035              |
| Allegro            | .0180, 0342                    |
| Americast          | .0926                          |
| Archer             | .0180, 0824                    |
| BellSouth          | .0926                          |
| Century            | .0180                          |
| Citizen            | .0180, 0342                    |
| Comtronics         | .0067                          |
| Contec             | .0046                          |
| Emerson            | .0824                          |
| Everquest          | .0042, 0067                    |
| Focus              | .0427                          |
| Garrard            | .0180                          |
| Gemini             | .0042                          |
| General Instrument | .0503, 0837                    |
| GoldStar           | .0067, 0171                    |
| Goodmind           | .0824                          |
| Hamlin             | .0047, 0036, 0286, 0061        |
| Hytex              | .0034                          |
| Jasco              | .0042, 0180, 0342              |
| Jerrold            | .0030, 0039, 0503, 0042, .0837 |
| Memorex            | .0027                          |
| Motorola           | .1133                          |
| Movie Time         | .0090                          |
| NSC                | .0090                          |
| Oak                | .0046, 0034                    |
| Optimus            | .0048                          |
| Panasonic          | .0048, 0134, 0027              |
| Paragon            | .0027                          |
| Philips            | .0180, 0332, 0344              |
| Pioneer            | .0171, 0560, 0904              |
| Popular Mechanics  | .0427                          |
| Pulsar             | .0027                          |
| Quasar             | .0027                          |
| RCA                | .0048                          |
| Radio Shack        | .0042, 0910, 0342, 0824        |
| Recoton            | .0427                          |
| Regal              | .0047, 0286                    |
| Runco              | .0027                          |
| SL Marx            | .0067                          |
| Samsung            | .0067, 0171                    |
| Scientific Atlanta | .0035, 0504, 0904              |
| Signal             | .0042, 0067                    |
| Sprucer            | .0048                          |
| Starcom            | .0030, 0042                    |
| Stargate           | .0067, 0042, 0824              |
| Starquest          | .0042                          |
| TV86               | .0090                          |

|                |                   |
|----------------|-------------------|
| Televion       | .0067             |
| Tocom          | .0039             |
| Toshiba        | .0027             |
| Tusa           | .0042             |
| Unika          | .0180             |
| United Artists | .0034             |
| Universal      | .0180, 0218       |
| Viewstar       | .0090             |
| Zenith         | .0027, 0552, 0926 |
| Zentek         | .0427             |

## Surround Sound Receiver

|               |                         |
|---------------|-------------------------|
| ADC           | .0558                   |
| Aiwa          | .0148                   |
| Capetronic    | .0558                   |
| Carver        | .0069, 1116, 1216       |
| Casio         | .0222                   |
| Clarinette    | .0222                   |
| Denon         | .1187, 1131             |
| Fisher        | .0069                   |
| Garrard       | .0490                   |
| Harman/Kardon | .0137                   |
| JVC           | .0101                   |
| Kenwood       | .1054, 0069, 0213, 1340 |
| Lloyd's       | .0222                   |
| MCS           | .0066                   |
| Magnavox      | .0418, 1116, 0558, 1216 |
| Marantz       | .1116, 1216, 0066       |
| Modulaire     | .0222                   |
| Nakamichi     | .0124                   |
| Onkyo         | .0162                   |
| Optimus       | .1050, 0213, 0558, 0069 |
| Panasonic     | .0066, 1545             |
| Penney        | .0222                   |
| Philips       | .1116, 1216, 1296, 0418 |
| Pioneer       | .0177, 0558, 1050       |
| Proscan       | .1281                   |
| Quasar        | .0066                   |
| RCA           | .1281, 0558, 1050       |
| Realistic     | .0222                   |
| Sansui        | .1116                   |
| Sharp         | .0213                   |
| Sherwood      | .0529                   |
| Sony          | .1185, 1085, 1285       |
| Sunfire       | .1340                   |
| Teac          | .0490                   |
| Technics      | .0066, 1335, 1545, 1336 |
| Thorens       | .1216                   |
| Victor        | .0101                   |
| Yamaha        | .0203, 0213, 1203       |
| Yorx          | .0222                   |

## Satellite Receiver

|                        |                   |
|------------------------|-------------------|
| AlphaStar              | .0799             |
| Echostar               | .1032, 0802       |
| Expressvu              | .0802             |
| GE                     | .0593             |
| General Instrument     | .0388, 0896, 0654 |
| HTS                    | .0802             |
| Hitachi                | .0846             |
| Hughes Network Systems | .0776             |
| JVC                    | .0802             |
| Jerrold                | .0388, 0654       |
| Magnavox               | .0749, 0751       |
| Memorex                | .0751             |
| Next Level             | .0896             |
| Panasonic              | .0728             |
| Philips                | .1103, 0749, 0751 |
| Primestar              | .0654, 0388       |

|             |                         |
|-------------|-------------------------|
| RCA         | .0593, 0170, 0419, 0882 |
| Radio Shack | .0896                   |
| Samsung     | .1136                   |
| Sony        | .0666                   |
| Star Choice | .0896                   |
| Toshiba     | .0776, 0817             |
| Uniden      | .0751, 0749             |
| Zenith      | .0883                   |

## VCR

|                        |                                                         |
|------------------------|---------------------------------------------------------|
| Admiral                | .0075, 0236                                             |
| Adventura              | .0027                                                   |
| Aiko                   | .0305                                                   |
| Aiwa                   | .0027, 0064                                             |
| Akai                   | .0068                                                   |
| America Action         | .0305                                                   |
| American High          | .0062                                                   |
| Asha                   | .0267                                                   |
| Audiovox               | .0064                                                   |
| Beaumarck              | .0267                                                   |
| Bell & Howell          | .0131                                                   |
| Broksonic              | .0148, 0211, 0029, 0236, 0506                           |
| CCE                    | .0099, 0305                                             |
| Calix                  | .0064                                                   |
| Canon                  | .0062                                                   |
| Carver                 | .0108                                                   |
| Cineral                | .0305                                                   |
| Citizen                | .0305, 0064                                             |
| Colt                   | .0099                                                   |
| Craig                  | .0064, 0099, 0074, 0267, 0298                           |
| Curtis Mathes          | .0062, 0068, 0087, 0189                                 |
| Cybernex               | .0787                                                   |
| Daewoo                 | .0305, 0072                                             |
| Denon                  | .0069                                                   |
| Dynatech               | .0027                                                   |
| Electrohome            | .0064                                                   |
| Electroponic           | .0064                                                   |
| Emerex                 | .0059                                                   |
| Emerson                | .0211, 0029, 0236, 0305, .0148, 0506, 0027, 0064, .0070 |
| Fisher                 | .0074, 0131                                             |
| Fuji                   | .0062                                                   |
| Funai                  | .0027                                                   |
| GE                     | .0062, 0087, 0075, 0267, .0787                          |
| Garrard                | .0027                                                   |
| Go Video               | .0459, 0553                                             |
| GoldStar               | .0064, 0065                                             |
| Gradiente              | .0027                                                   |
| HI-Q                   | .0074                                                   |
| Harley Davidson        | .0027                                                   |
| Harman/Kardon          | .0065, 0108                                             |
| Harwood                | .0099                                                   |
| Hitachi                | .0069, 0027, 0068                                       |
| Hughes Network Systems | .0069                                                   |
| JVC                    | .0094, 0068                                             |
| Jensen                 | .0068                                                   |
| KEC                    | .0064, 0305                                             |
| KLH                    | .0099                                                   |
| Kenwood                | .0068, 0094, 0065                                       |
| Kodak                  | .0062, 0064                                             |
| LXI                    | .0064                                                   |
| Lloyd's                | .0027                                                   |
| Logik                  | .0099                                                   |
| MEI                    | .0062                                                   |
| MGA                    | .0070, 0267                                             |
| MGN Technology         | .0267                                                   |
| MTC                    | .0027, 0267                                             |
| Magnasonic             | .0305                                                   |
| Magnavox               | .0062, 0108, 0027, 0066, 0176                           |

# Programming the Remote Control: Setup Codes



## VCR (continued)

|             |                                                                               |
|-------------|-------------------------------------------------------------------------------|
| Magnin      | .0267                                                                         |
| Marantz     | .0108, 0062                                                                   |
| Marta       | .0064                                                                         |
| Matsushita  | .0062, 0189                                                                   |
| Memorex     | .0131, 0074, 0506, 0027<br>.0064, 0075, 0062, 0267<br>.0066, 0189, 0236, 1189 |
| Minolta     | .0069                                                                         |
| Mitsubishi  | .0070, 0075, 0094                                                             |
| Motorola    | .0062, 0075                                                                   |
| Multitech   | .0027, 0099                                                                   |
| NEC         | .0065, 0068, 0094, 0131                                                       |
| Nikko       | .0064                                                                         |
| Noblex      | .0267                                                                         |
| Olympus     | .0062                                                                         |
| Optimus     | .0189, 1189, 0075, 0064,<br>.0131, 0459                                       |
| Orion       | .0506, 0029, 0211, 0236                                                       |
| Panasonic   | .0062, 0189, 1189, 0643                                                       |
| Penney      | .0062, 0267, 0064, 0069, 0065                                                 |
| Pentax      | .0069                                                                         |
| Philco      | .0062, 0236, 0506                                                             |
| Philips     | .0108, 0062, 0645                                                             |
| Pilot       | .0064                                                                         |
| Pioneer     | .0094                                                                         |
| Polk Audio  | .0108                                                                         |
| Profitronic | .0267                                                                         |
| Proscan     | .0087, 0787                                                                   |
| Protec      | .0099                                                                         |
| Pulsar      | .0066                                                                         |
| Quasar      | .0062, 0189, 1189                                                             |
| RCA         | .0087, 0176, 0069, 0062,<br>.0075, 0267, 0787                                 |
| Radio Shack | .0027                                                                         |
| Radix       | .0064                                                                         |
| Randex      | .0064                                                                         |

|                    |                                                                          |
|--------------------|--------------------------------------------------------------------------|
| Realistic          | .0027, 0131, 0074, 0075,<br>.0064, 0062                                  |
| ReplayTV           | .0641, 0643                                                              |
| Runco              | .0066                                                                    |
| STS                | .0069                                                                    |
| Samsung            | .0072, 0267                                                              |
| Sanky              | .0066, 0075                                                              |
| Sansui             | .0068, 0506, 0027, 0094, 0236, 0298                                      |
| Sanyo              | .0074, 0131, 0267                                                        |
| Scott              | .0211, 0148, 0070, 0072                                                  |
| Sears              | .0064, 0069, 0027, 0062,<br>.0074, 0131                                  |
| Semp               | .0072                                                                    |
| Sharp              | .0075                                                                    |
| Shintom            | .0099                                                                    |
| Shogun             | .0267                                                                    |
| Singer             | .0099                                                                    |
| Sony               | .0059, 0027, 0062, 0063                                                  |
| Sylvania           | .0062, 0108, 0027, 0070                                                  |
| Symphonic          | .0027                                                                    |
| TMK                | .0267                                                                    |
| Tatung             | .0068                                                                    |
| Teac               | .0027, 0068                                                              |
| Technics           | .0062, 0189                                                              |
| Teknika            | .0027, 0062, 0064                                                        |
| Thomas             | .0027                                                                    |
| Tivo               | .0645, 0663                                                              |
| Toshiba            | .0072, 0070                                                              |
| Totevision         | .0064, 0267                                                              |
| Unitech            | .0267                                                                    |
| Vector             | .0072                                                                    |
| Vector Research    | .0065                                                                    |
| Video Concepts     | .0072                                                                    |
| Videosonic         | .0267                                                                    |
| Wards              | .0062, 0087, 0027, 0074,<br>.0267, 0069, 0075, 0099<br>.0108, 0176, 0787 |
| White Westinghouse | .0099, 0305, 0236                                                        |

|         |                         |
|---------|-------------------------|
| XR-1000 | .0099, 0027, 0062       |
| Yamaha  | .0065                   |
| Zenith  | .0066, 0027, 0236, 0506 |

## Digital Video Disc (DVD)

|              |                         |
|--------------|-------------------------|
| Apex         | .0699                   |
| Denon        | .0517                   |
| Fisher       | .0697                   |
| GE           | .0549                   |
| Hitachi      | .0691                   |
| Hiteker      | .0699                   |
| JVC          | .0650, 0585             |
| Kenwood      | .0709, 0561             |
| Konka        | .0746, 0738, 0747, 0748 |
| Magnavox     | .0530, 0702             |
| Marantz      | .0566                   |
| Mitsubishi   | .0548                   |
| Onkyo        | .0530                   |
| Optimus      | .0598                   |
| Oritron      | .0678                   |
| Panasonic    | .0517, 0659             |
| Philips      | .0566, 0530             |
| Pioneer      | .0598, 0552, 0659       |
| Proscan      | .0549                   |
| RCA          | .0549, 0598             |
| Samsung      | .0600                   |
| Sharp        | .0657                   |
| Sony         | .0560                   |
| Technics     | .0517                   |
| Theta Digita | .0598                   |
| Toshiba      | .0530                   |
| Yamaha       | .0517, 0572             |
| Zenith       | .0618, 0530             |



## Operating Accessory Devices with the TV Remote

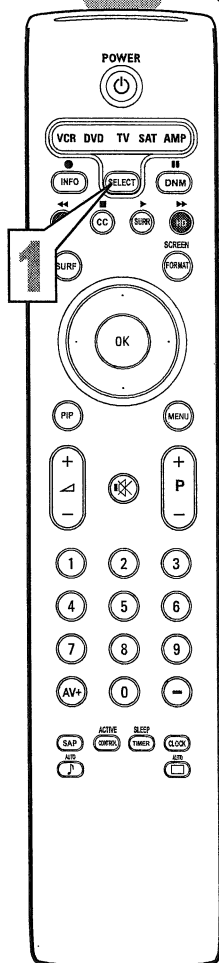
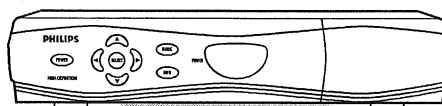
Once you have programmed your TV remote, refer to page 27 to see how the remote functions with accessory devices.

Before the remote will operate an accessory device, you must select the correct mode: CBL (cable box), VCR, DVD, SAT (satellite), or AMP (amplifier).

- 1 Press the Select button to cycle through the accessory modes. When the mode you want lights up, stop pressing the button. After a few seconds, the light will begin blinking. The blinking means that the remote is in the accessory mode you have selected.

**NOTE:** The remote is in accessory mode as long as the light keeps blinking. If you do not use the remote for 60 seconds the light will switch off, and the TV will go back to TV mode. The 60-second timer restarts each time you use the remote in an accessory mode.

- 2 Point the front of the remote toward the front of the accessory device, then press the button to perform the desired function.



Point the front of the remote toward the front of the accessory device, then press the necessary buttons to perform the functions you desire. Refer to pages 27 to see the functions of the buttons in the respective accessory modes.

To backlight the remote control buttons, press and hold the Select button for two seconds. If you do not press any remote buttons for five seconds, the backlight switches off. Each time you press a remote button while the backlight is on, the five-second time-out function is reset. After the backlight switches off, you must press and hold the Select button for two seconds to turn it back on.



### HELPFUL HINT

- Press the Select button once to return the remote to the TV mode.
- Press the Select Button twice to select another device by cycling through the accessory mode choices.

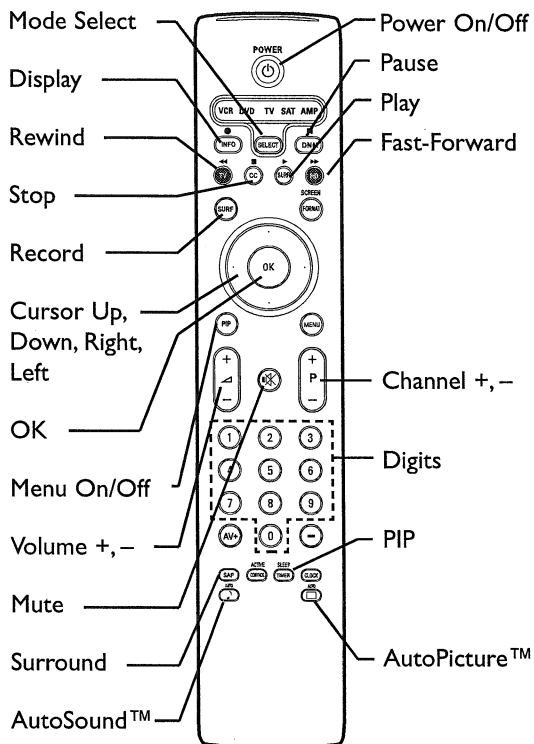
### ✓ CHECK IT OUT

You can change the duration of the time-out mode by simultaneously pressing the Select button and a digit button, 1–4. Using digit 1 will set the time-out to 15 seconds; digit 2, 30 seconds; digit 3, 60 seconds; and digit 4, 120 seconds. The default time-out setting after you replace the batteries in the remote is 60 seconds. All modes will have the same time-out setting.

# Operating Accessory Devices with the TV Remote

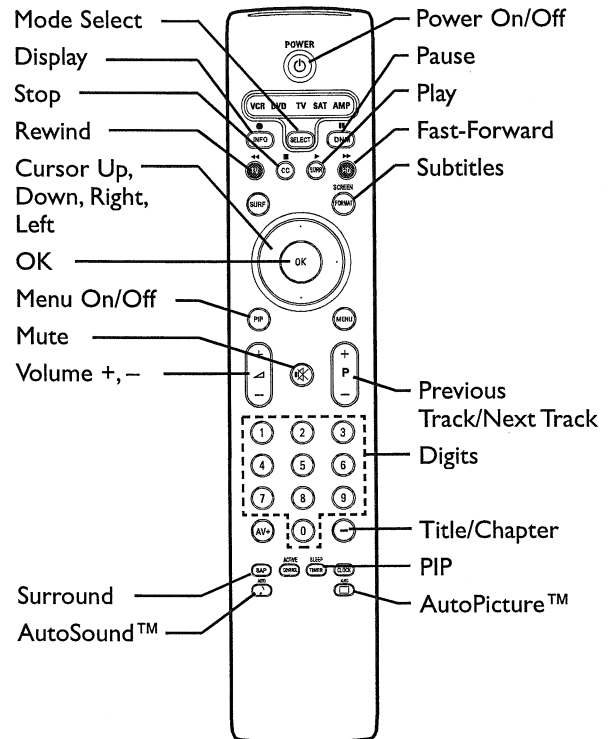


## VCR Mode



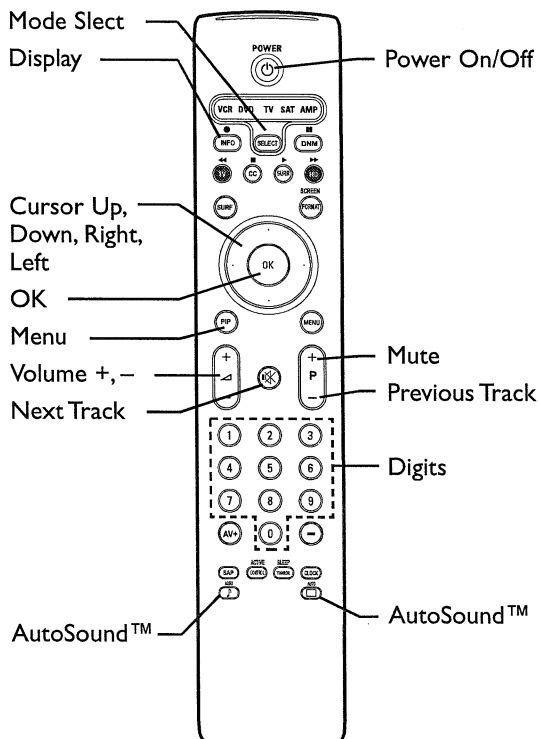
\*Point remote at TV when using this button.

## DVD Mode



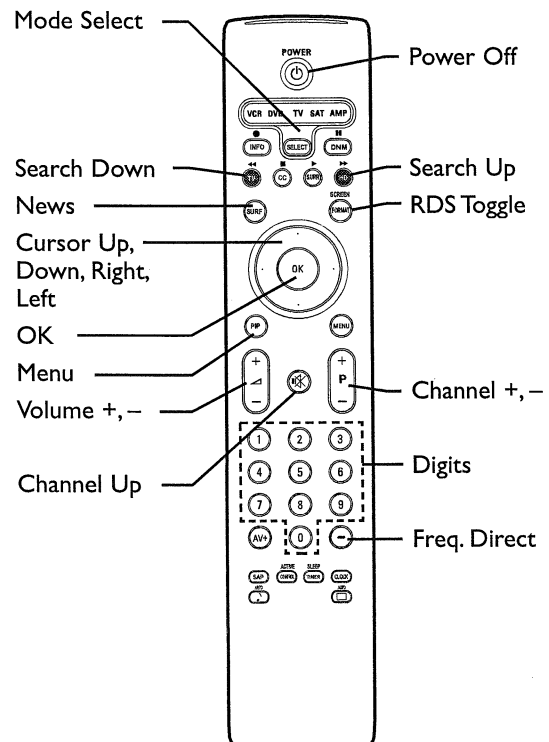
\*Point remote at TV when using this button.

## SAT Mode



\*Point remote at TV when using this button.

## AMP Mode



\*Point remote at TV when using this button.