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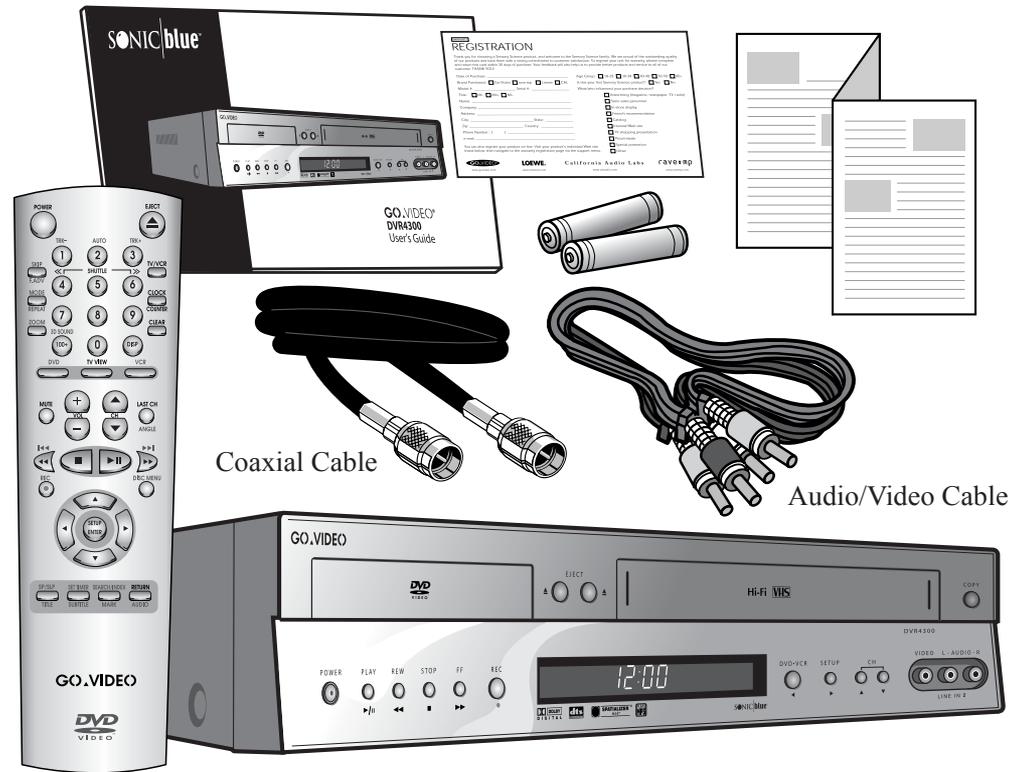
GO.VIDEO®
DVR4300
User's Guide

Unpack Your DVD+VCR

- DVD+VCR unit
- Remote control
- 1.5V AA batteries (2)
- Coaxial cable
- Stereo audio/video cable
- User's guide
- Read Me First/Quick Reference Guide
- Warranty registration card

Insert Batteries

- Remove battery cover.
- Insert two 1.5V AA batteries, paying attention to the correct polarities (+/-).
- Replace cover.



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:: Welcome

Congratulations on your purchase of this Go-Video DVD+VCR. In case warranty service is required, please take a moment to attach your receipt to this manual and write down your Serial Number, located on the back panel of the DVD+VCR:

Playable Media

This DVD+VCR can play discs/videotapes with the following logos:

- DVD
- VHS
- Dolby Digital
- DTS
- CD-Audio
- VCD/SVCD
- MP3 files burned on CD-R/RW
- Stereo
- Hi-Fi
- NTSC
- Region 1



- *CD-ROM, CD-G, photo CD, and CD-i discs cannot be played on this DVD player.*



STEREO

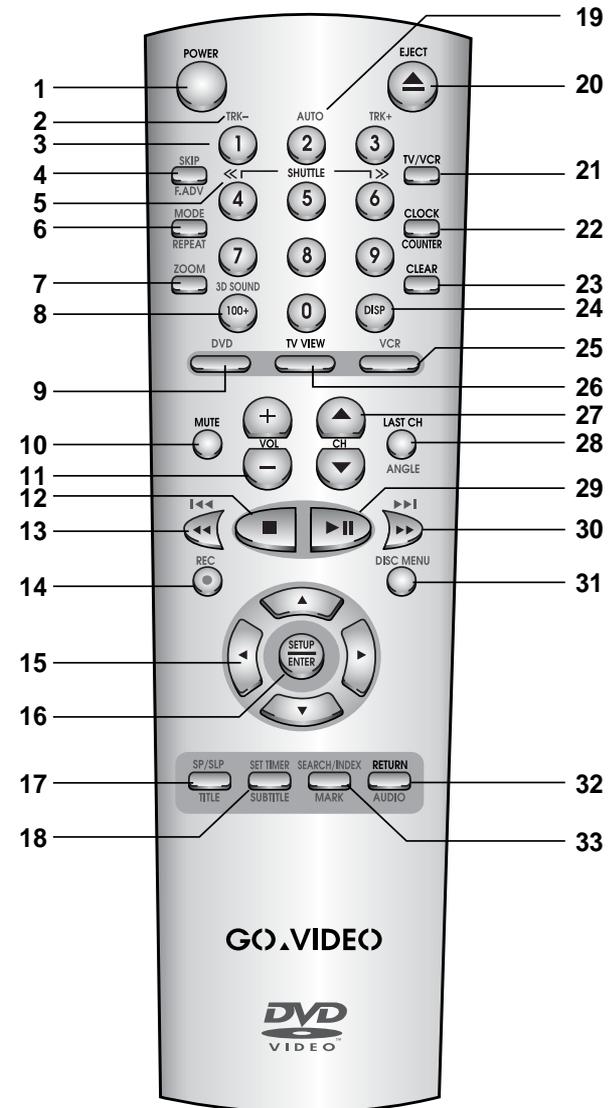
Hi-Fi



NTSC

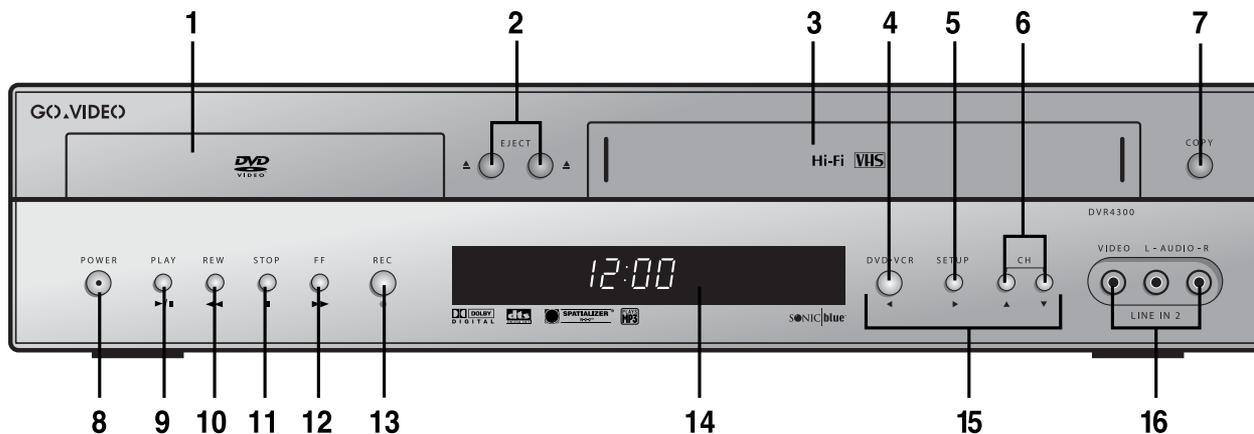
:: Remote Control Overview

- 1 POWER** Press to power the DVD+VCR on or off.
- 2 TRK+/-** While a tape is playing, press to manually adjust tracking (i.e., to remove white lines from the screen).
- 3 0-9** Use to select channels and set menu items.
- 4 SKIP/F.ADV** Press to skip ahead in one-minute increments, up to 5 minutes, during VCR playback. Press to advance one frame at a time in Pause mode.
- 5 SHUTTLE <</>>** Press the 4 and 6 buttons to scan forward and backward at variable speeds.
- 6 MODE/REPEAT** Press to set the Play Mode to Random or Programmed Play. Also press to set the Repeat Mode to Title, Chapter/Track, or A/B Repeat (DVD only).
- 7 ZOOM** Press to zoom in at 2 or 4 times normal magnification (DVD only).
- 8 100+/3D SOUND** Press to select cable channels 100 and above. Also press to activate the 3D Sound feature, which creates the illusion of surround sound with only two speakers (DVD only).
- 9 DVD** Press to set the remote control to operate the DVD deck.
- 10 MUTE** Press to turn audio on or off.
- 11 VOL +/-** Press to adjust the volume.
- 12 STOP ■** Press to stop playback.
- 13 REW ◀◀** In DVD mode, press to skip to the previous track. In VCR mode, press to rewind the tape. Press and hold to scan backward during playback.
- 14 REC ●** Press once to start recording in the VCR deck. Press repeatedly to add recording time in 30-minute increments.
- 15 ARROW KEYS ▲/▼/◀/▶** Press to navigate in the menu system, see page 15.
- 16 SETUP/ENTER** Press to display the DVD+VCR menu system and confirm menu settings.
- 17 SP/SLP/TITLE** Press to set the VCR record speed to SP (Standard Play) or SLP (Super Long Play). SLP is three times longer than SP. Also press to display DVD title menus (for discs with multiple titles only)



- 18 SET TIMER/SUBTITLE** Press to set timer recordings. Also press to select available subtitle languages (DVD only).
- 19 AUTO** Press to resume automatic tracking (VCR only).
- 20 EJECT** In VCR mode, press to eject the tape from the VCR deck. In DVD mode, press to open and close the DVD disc drawer.
- 21 TV/VCR** Press to switch between your television's tuner and the DVD+VCR tuner (for RF connections only).
- 22 CLOCK/COUNTER** Press to view the clock, tape counter, or time remaining on the front panel display.
- 23 CLEAR** Press to reset the tape counter to zero (0:00:00), or to clear menu items.
- 24 DISP** Press to view the DVD+VCR On-Screen Display.
- 25 VCR** Press to set the remote control to operate the VCR deck.
- 26 TV VIEW** Press to view each DVD+VCR input source: DVD, VCR, Tuner, Line 1, and Line 2.
- 27 CH ▲/▼** Press to select the next or previous channel.
- 28 LAST CH/ANGLE** Press to display the last channel viewed. Also, press to select scenes shot from multiple angles (DVD only).
- 29 PLAY/PAUSE ▶||** Press once to start playback. Press again to pause playback. Press again to resume playback.
- 30 FF ▶▶** In DVD mode, press to skip to the next track. In VCR mode, press to fast-forward the tape. Press and hold to scan forward during playback.
- 31 DISC MENU** Press to view the DVD disc menu.
- 32 RETURN/AUDIO** Press to go back one menu item, or to exit the menu system. Press to select available audio tracks/formats.
- 33 SEARCH/INDEX/MARK** Press to display the Search Menu, or to place Index marks on the tape. Also press to bookmark up to three scenes during DVD playback.

:: Front Panel Overview

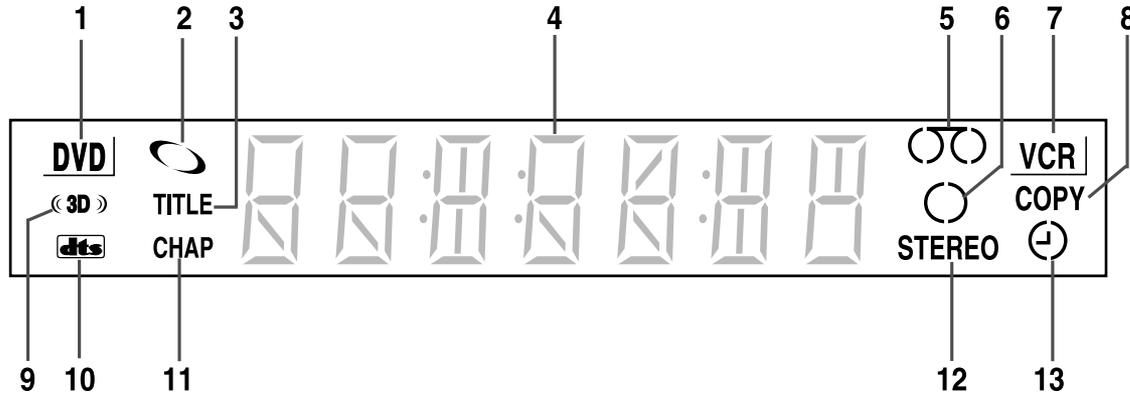


Front Panel Features

- 1 DVD DECK** Deck used for playback of DVD, CD, VCD/SVCD and CD-R/RW discs.
- 2 EJECT** Press to open and close the DVD deck, or to eject the tape from the VCR deck.
- 3 VCR DECK** Deck used for playback of VHS tapes.
- 4 DVD-VCR** Press to toggle control between the DVD deck and the VCR deck.
- 5 SETUP** Press to display the DVD+VCR menu system and confirm menu settings.
- 6 CH ▲/▼** Press to select the next or previous channel.
- 7 COPY** Press to copy from DVD to VCR. The DVD+VCR will not copy Macrovision® encoded DVDs.
- 8 POWER** Press to power the DVD+VCR on or off.
- 9 PLAY/PAUSE ►||** Press once to start playback. Press again to pause playback. Press again to resume playback.
- 10 REW ◀◀** In DVD mode, press to skip to the previous track. In VCR mode, press to rewind the tape. Press and hold to scan backward during playback.
- 11 STOP ■** Press to stop playback.
- 12 FF ▶▶** In DVD mode, press to skip to the next track. In VCR mode, press to fast-forward the tape. Press and hold to scan forward during playback.
- 13 REC ●** Press once to start recording in the VCR deck. Press repeatedly to add recording time in 30-minute increments.
- 14 FRONT PANEL DISPLAY** Displays feedback on DVD+VCR operation.

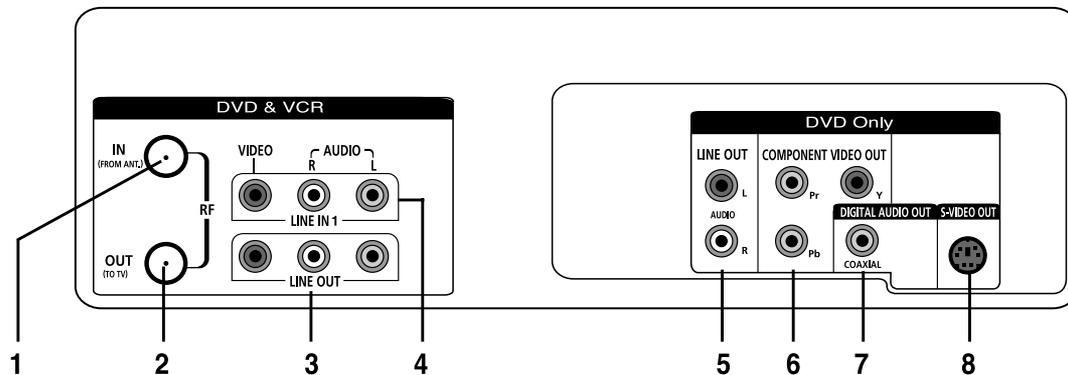
- 15 MENU NAVIGATION KEYS** ◀/▶/▲/▼ Use to navigate within the DVD+VCR menu system without the remote control.
- 16 LINE IN 2 (VIDEO L-AUDIO-R)** Connect to the audio/video outputs of a camcorder, video game or other component. Match yellow (video), red (right audio) and white (left audio) accordingly. Use the white input jack when connecting mono sources. Referred to as Line 2 in the menu system.

Front Panel Display Indicators



- 1 DVD DECK** DVD deck is active.
- 2 DVD STATUS** Disc is loaded.
- 3 TITLE** Current title number.
- 4 DVD+VCR STATUS** Time, counter position, time remaining, or playback status.
- 5 VCR STATUS** VHS tape is loaded.
- 6 RECORD STATUS** VHS recording is in progress.
- 7 VCR DECK** VCR deck is active.
- 8 COPY** Copy is in progress.
- 9 3D SOUND** 3D Sound is active.
- 10 DTS** DVD with DTS (Digital Theater Sound) 5.1 is loaded.
- 11 CHAPTER** Current chapter number.
- 12 STEREO** Current television show (or VHS tape) is in stereo.
- 13 TIMER RECORD** Timer recording is programmed or in progress. Blinks if there is an error.

:: Rear Panel Overview



- 1 IN (FROM ANT.)** Connect to your antenna, cable TV, or cable box with a coaxial cable.
- 2 OUT (TO TV)** Connect to your television with a coaxial cable.
- 3 LINE OUT (DVD & VCR)** Connect to the audio/video inputs of your television or stereo receiver using standard audio/video cables.
- 4 LINE IN 1** Connect to the audio/video outputs of an external device, such as a video game or additional VCR. Referred to as Line 1 in the menu system.
- 5 LINE OUT (DVD Only)** Connect to the audio inputs of your television or stereo receiver using standard audio cables. These audio outputs are for use with the S-Video or Component Video outputs only.
- 6 COMPONENT VIDEO OUT** Connect to a television or display device equipped with Component video inputs (Y, Pb, Pr). For the audio signal, use either Line Out or Digital Audio Out. For DVD playback only.
- 7 DIGITAL AUDIO OUT (COAXIAL)** Connect to an audio/video receiver equipped with a coaxial input (for DVD playback only).
- 8 S-VIDEO OUT** Connect to a television or display device equipped with an S-Video input. For the audio signal, use either Line Out or Digital Audio Out. For DVD playback only.

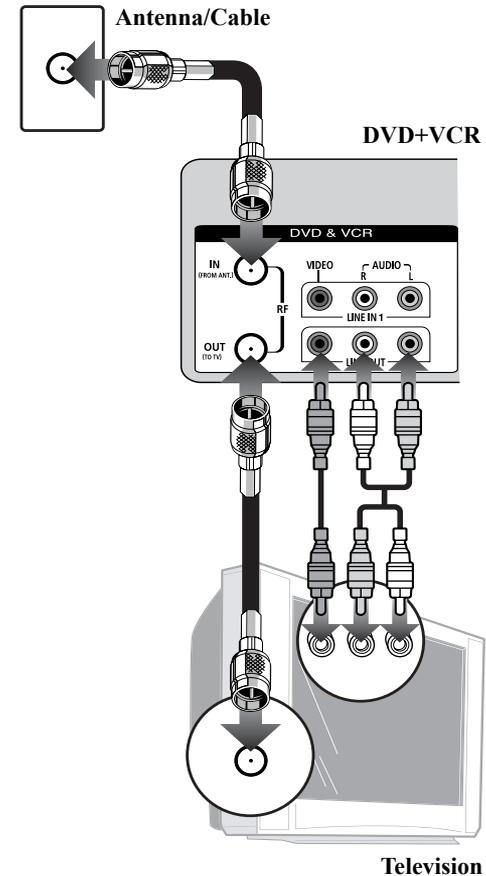
:: Basic Connections

The following connections are required in order to operate your DVD+VCR:

- 1 Connect Antenna to DVD+VCR** Connect the coaxial cable from your antenna or cable TV jack to the IN (FROM ANT.) jack on the DVD+VCR back panel.
- 2 Connect DVD+VCR to TV** Choose either RF Out or Line Out:
 - a. RF Out** Use if you have an older television with only a basic antenna input: Connect the supplied coaxial cable from the OUT (TO TV) jack on the DVD+VCR back panel to the antenna in jack on your television.
 - b. Line Out** Use for better sound and picture quality if your television has audio/video inputs: Connect the supplied audio/video cable from the LINE OUT jacks on the DVD+VCR back panel to the line in jacks on your television.
- 3 Power on DVD+VCR & TV** Plug the DVD+VCR power cord into a standard 120V/60Hz wall outlet, and turn on your television and DVD+VCR.
- 4 Select Channel 3 or Line** If you used the RF Out connection, tune your television to channel 3. If you used the Line Out connection, set your television to its Line or Aux input.



- *The Language/Langue/Idioma menu should appear on your television screen. Please proceed with Auto Setup on page 15.*
- *In order to view the setup menus, you MUST connect the DVD+VCR to your television with the RF or Line Out connections, even if you plan to use the S-Video or Component Video outputs.*
- *If you are not getting a good picture, try changing the RF Out-put to channel 4; see page 17.*



:: Advanced Connections

S-Video Connections

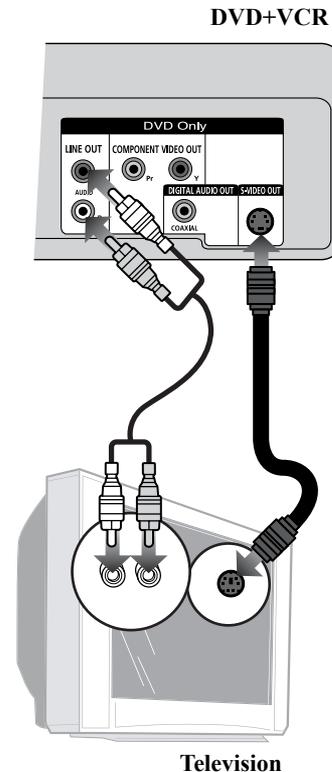
Use for improved picture quality when watching DVD movies. Before you begin, please note the following:

- Your television must be equipped with an S-Video input.
- You can only watch the DVD player through the S-Video output. The VCR, tuner and menu system are only available through the RF Out or Line Out connection, see page 7.

- 1 Connect S-Video to TV** Connect an S-Video cable from the S-VIDEO OUT jack on the back panel of the DVD+VCR to the S-Video input on your television.
- 2 Connect Stereo or Digital Audio to TV** Connect stereo audio cables from the Line Out jacks on the back panel of the DVD+VCR to the line in jacks on your television or stereo receiver, OR connect the coaxial digital audio output to your audio/video receiver; see page 11.
- 3 Enable S-Video in the DVD+VCR Menu System** See Alt Video Out on page 26 (required).



- *Remember: You can only watch the DVD player through the S-Video output. You must use the basic RF or Line Out connection to watch VHS movies or to view DVD+VCR setup menus, see page 7.*



Component Video Connections

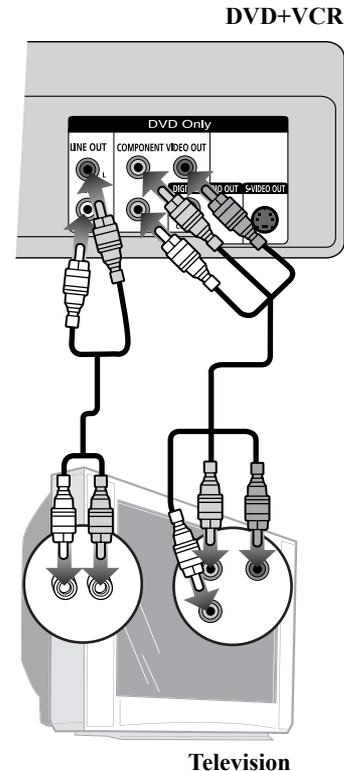
Use for superior picture quality when watching DVD movies. Before you begin, please note the following:

- Your television must be equipped with Component Video inputs.
- You can only watch the DVD player through the Component Video outputs. The VCR, tuner and menu system are only available through the RF Out or Line Out connection, see page 7.

- 1 Connect Component Video to TV** Connect a component video cable from the COMPONENT VIDEO OUT jacks on the back panel of the DVD+VCR to the component video inputs on your television. Be sure to correctly match each of the cables (red, green and blue) to their corresponding jacks on the DVD+VCR and TV.
- 2 Connect Stereo or Digital Audio to TV** Connect stereo audio cables from the Line Out jacks on the back panel of the DVD+VCR to the line in jacks on your television or stereo receiver, OR connect the coaxial digital audio output to your audio/video receiver; see page 11.
- 3 Enable Component Video in the DVD+VCR Menu System** See Alt Video Out on page 26 (required).



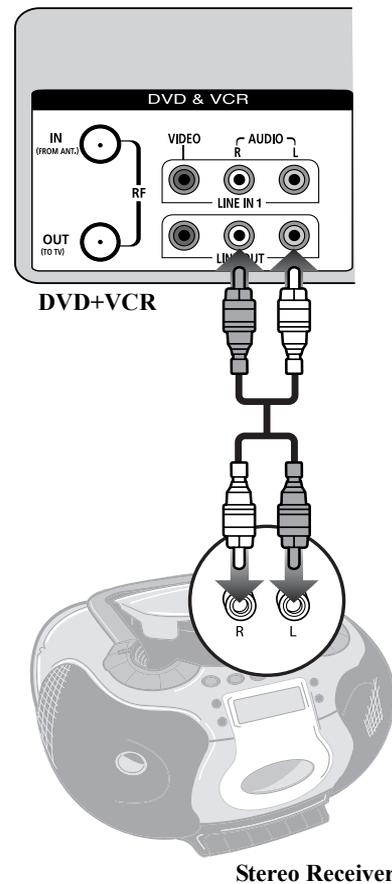
- *Remember: You can only watch the DVD player through the Component Video outputs. You must use the basic RF or Line Out connection to watch VHS movies or to view DVD+VCR setup menus, see page 7.*



Stereo Receiver Connections

Follow these steps to connect the DVD+VCR to a stereo receiver:

- 1 Connect DVD+VCR to Stereo Receiver** Connect stereo audio cables from the Line Out jacks on the back panel of the DVD+VCR to the line in jacks on your stereo receiver.
- 2 Select Line or Aux** Set your stereo receiver to its Line or Aux input (refer to your stereo owner's guide for the proper setting).



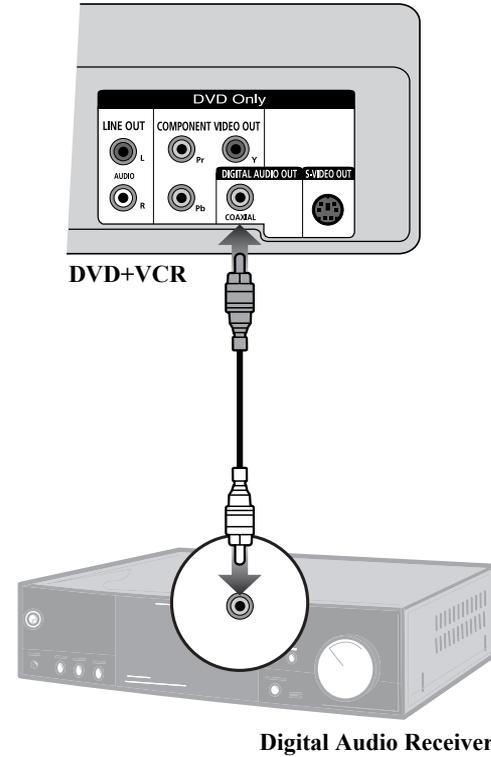
Audio/Video Receiver Connections

Follow these steps to connect the DVD+VCR to an audio/video receiver.

- 1 Connect DVD+VCR to Audio Receiver** Connect a coaxial digital audio cable from the DIGITAL AUDIO OUT jacks on the back panel of the DVD+VCR to the matching digital audio input on your audio/video receiver.
- 2 Adjust Dolby/DTS Decoder Settings** Set Dolby Digital Decoder and DTS Decoder in the menu system (required); see page 29.



- *If your audio/video receiver is equipped with a Dolby Digital or DTS Decoder, you MUST enable the correct decoder setting in the menu system to prevent damage to your speakers; see page 29*



Cable Box/Satellite Receiver Connections

Follow these steps to connect a cable box or satellite receiver to your DVD+VCR:

- 1 Connect incoming cable to cable box** Connect a coaxial cable from your cable TV or satellite jack to the input jack on your cable box/satellite receiver.
- 2 Connect cable box to DVD+VCR** Connect a second coaxial cable from the output jack on the cable box/satellite receiver to the IN (FROM ANT.) jack on the back panel of the DVD+VCR.
- 3 Connect DVD+VCR to TV** Connect an additional coaxial cable from the OUT (TO TV) jack on the back panel of the DVD+VCR to the antenna in jack on your television.

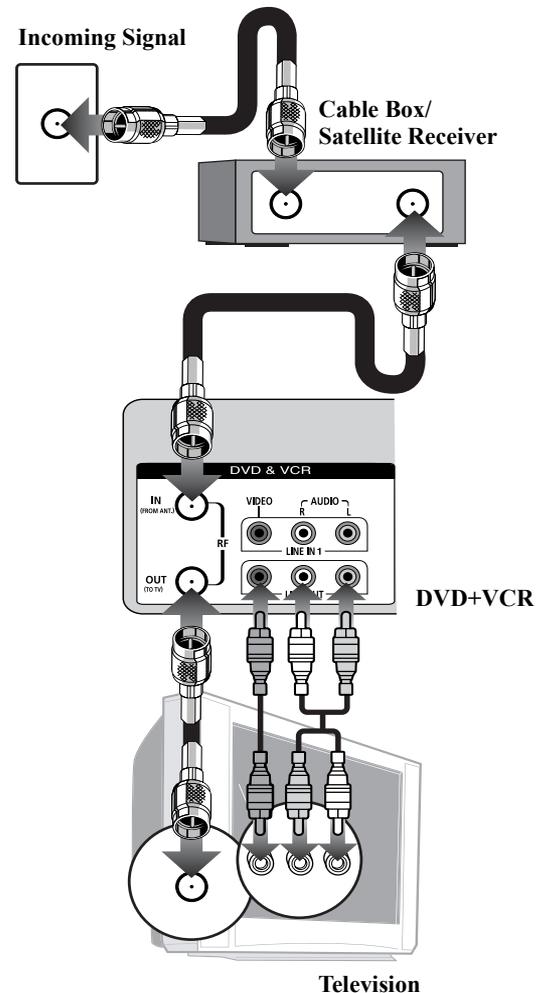
OR

Connect the supplied audio/video cable from the LINE OUT jacks on the DVD+VCR back panel to the line in jacks on your television.

- 4 Power on DVD+VCR, TV & cable box** Plug the DVD+VCR power cord into a standard 120V/60Hz wall outlet, and turn on your television, DVD+VCR and cable box/satellite receiver.
- 5 Select Channel 3 or Line** Tune your television to channel 3, or to the TV's Line/Aux input.



- *The Language/Langue/Idioma menu should appear on your television screen. Please proceed with Auto Setup on page 15.*
- *Use your cable box/satellite receiver to select channels. If you are not getting a good picture, try changing the RF Output to channel 4; see page 17.*
- *This method of connecting a cable box allows you to record scrambled channels, but you will not be able to watch a second channel while a recording is in progress. If you want to record from basic cable and watch scrambled channels simultaneously, see Alternative Cable Box Connection on the next page.*



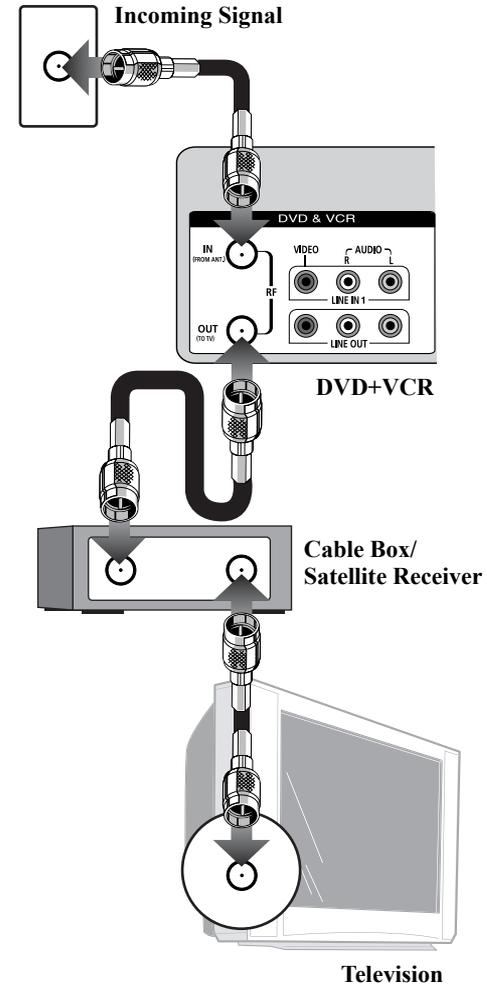
Alternative Cable Box Connection

This connection method allows you to record from basic cable and watch scrambled channels simultaneously. However, you will not be able to record scrambled channels.

- 1 Connect incoming cable to DVD+VCR** Connect a coaxial cable from your cable (CATV) or satellite wall outlet to the IN (FROM ANT.) jack on the back panel of the DVD+VCR.
- 2 Connect DVD+VCR to cable box** Connect a second coaxial cable from the OUT (TO TV) jack on the back panel of the DVD+VCR to the input jack on your cable box/satellite receiver.
- 3 Connect cable box to TV** Connect an additional coaxial cable from the output jack on the cable box/satellite receiver to the antenna in jack on your television.
- 4 Power on DVD+VCR, TV & cable box** Plug the DVD+VCR power cord into a standard 120V/60Hz wall outlet, and turn on your television, DVD+VCR and cable box/satellite receiver.
- 5 Select Channel on TV & cable box** Tune your television and cable box/satellite receiver to channel 3.



- *The Language/Langue/Idioma menu should appear on your television screen. Please proceed with Auto Setup on page 15.*
- *To watch the cable box, turn off the DVD+VCR, set your TV to channel 2, 3 or 4 (whichever channel is used by your cable system), and change channels on the cable box.*
- *To watch and record basic cable, select the channel to record on the DVD+VCR and the channel to watch on the cable box.*



Other Audio/Video Connections

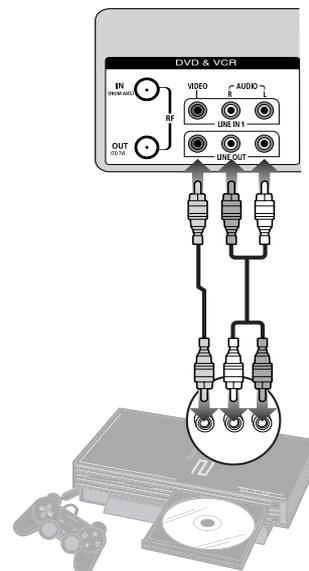
Follow these steps to connect an external audio/video device, such as a camcorder or video game, to your DVD+VCR. The DVD+VCR will automatically detect when a device is plugged into the front line input; see “Automatic Input Switching” below.

- 1 Connect device to DVD+VCR** Connect audio/video cables from the line outputs of your device to the line inputs on the rear (Line 1) or front (Line 2) of the DVD+VCR.
- Choose from the following options:
 - To View Device** Press TV VIEW until Line 1 or Line 2 appears on your television screen.
 - To Record from Device** Press TV VIEW until Line 1 or Line 2 appears on your television screen, then press REC ● on the VCR deck.
 - To Timer Record from Device** Select Line 1 or Line 2 as your Record Source in the Timer Record menus; see page 37.

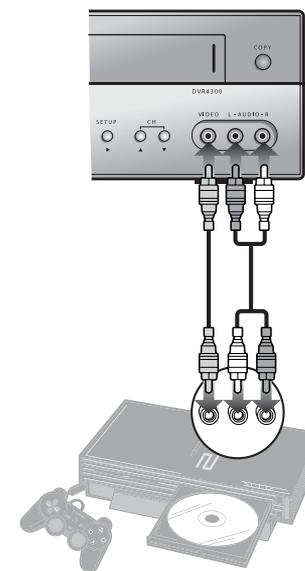


Automatic Input Switching will automatically change your TV's view to match whatever media you are using. For example, if you play a DVD, the DVD+VCR will switch to DVD view. Likewise, if you play a videotape, the player will switch to VCR view. It will even detect if you plug an external device, such as a camcorder, into the front line inputs. The DVD+VCR will detect that the device has been plugged in and switch to Line 2 automatically.

DVD+VCR (Line In 1)



DVD+VCR (Line In 2)



External Audio/Video Device(s)

:: About Menu Navigation

The following keys are used to display and navigate the DVD+VCR menu system:

SETUP/ENTER Press to display the menu system and confirm menu settings.

- ▲ Press to move up the list of menu items.
- ▼ Press to move down the list of menu items.
- ▶ Press to select or change menu options.
- ◀ Press to return to the previous menu, or to exit from the menu system.

CLEAR Press to erase settings.

0-9 Press to enter menu selections directly.

RETURN Press to return to the previous menu, or to exit the menu system.



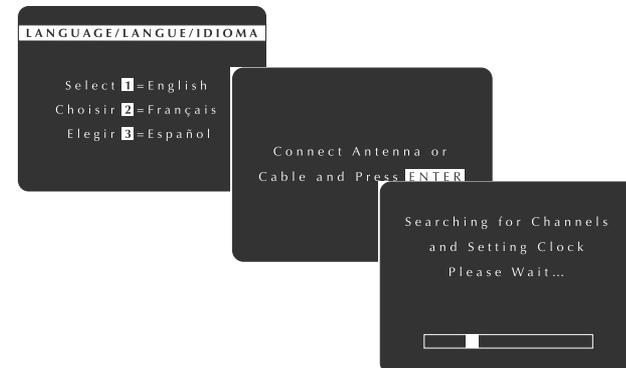
- *You can also navigate the menu system using the **SETUP** and arrow keys on the front panel.*



:: Auto Setup

The first time you turn on your DVD+VCR, Auto Setup will prompt you to set the menu language, and then set the clock and channels automatically:

- 1 Press 1 for English, 2 for French or 3 for Spanish.
- 2 If you have not already done so, make sure you have connected an antenna or basic cable to the IN (FROM ANT.) jack on the DVD+VCR back panel. Press **SETUP/ENTER** to continue.



- 3 As soon as you press SETUP/ENTER, the DVD+VCR will automatically perform the following steps:
- Auto Channel Search** Automatically detects whether an antenna or cable is connected, then searches for all active channels in your area.

Auto Clock Set Sets the DVD+VCR internal clock.

- 4 This procedure may take a few minutes to complete. When finished, the DVD+VCR will display the lowest channel found.



- *If no channels were found in your area, the DVD+VCR will alert you and then display the Channel Setup menu; see page 23.*
- *If Auto Setup was unable to detect the time, the DVD+VCR will alert you and then display the Set Month menu; see page 22.*

:: Setup Menu

Child Lock

The Child Lock feature disables the front panel keys so the DVD+VCR can only be operated with the remote control. To enable Child Lock:

- 1 Press SETUP/ENTER.
- 2 Press ▲/▼ and ► to select and set Child Lock as follows:
 - OFF** Child Lock is off. The front panel keys are fully functional.
 - ON** Child Lock is on. The front panel keys are locked.



- *You must use the remote control to disable Child Lock and resume normal front panel operation.*
- *Auto Play and Auto Power On are also disabled when Child Lock is on.*



RF Output Channel

The RF Output Channel is the channel you tune your television to when using the DVD+VCR with an RF connection (see page 7). You can choose either channel 3 (the default setting) or 4.

- 1 Press SETUP/ENTER.
- 2 Press ▲/▼ and ► to select RF Output CH.
- 3 Press SETUP/ENTER to confirm that you would like to change the RF Output Channel; or press RETURN to cancel.
- 4 When prompted, tune your television to channel 3 or 4 and press SETUP/ENTER.

Panel Display

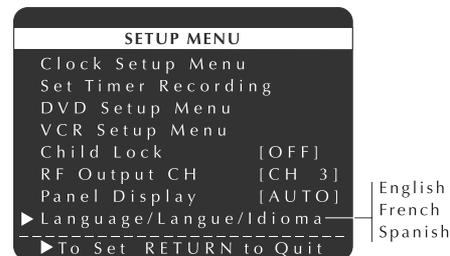
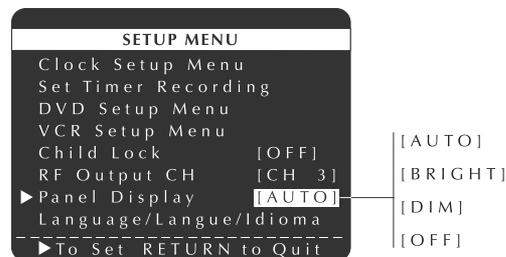
The Panel Display feature allows you to dim the front panel display.

- 1 Press SETUP/ENTER.
- 2 Press ▲/▼ and ► to select and set Panel Display as follows:
 - AUTO** The Front Panel Display will dim between the hours of 10:00 p.m. and 6:00 a.m., and during DVD playback.
 - BRIGHT** The Front Panel Display will remain bright.
 - DIM** The Front Panel Display will remain dim.
 - OFF** The Front Panel Display will remain off.

Language/Langue/Idioma

You can select one of three languages for the DVD+VCR menu system: English, French or Spanish.

- 1 Press SETUP/ENTER.
- 2 Press ▲/▼ and ► to select and set Language/Langue/Idioma to English, French or Spanish.
 - The entire Setup Menu will be translated each time you press ►.



:: VCR Setup

For Channel Setup menu, please see page 23.

Date/Time Stamp

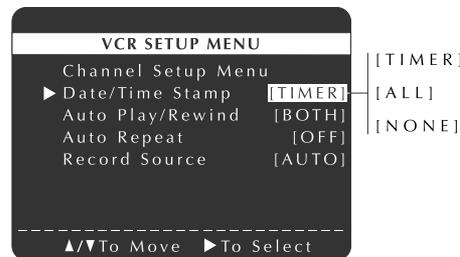
The Date/Time Stamp will superimpose the date and time on VHS recordings.

- 1 Press SETUP/ENTER.
- 2 Press ▲/▼ and ► to select VCR Setup Menu.
- 3 Press ▲/▼ and ► to select and set Date/Time Stamp as follows:

TIMER The date, time, and record source will be stamped briefly at the start of timer recordings only.

ALL The date, time, and record source will be stamped briefly at the start of all recordings.

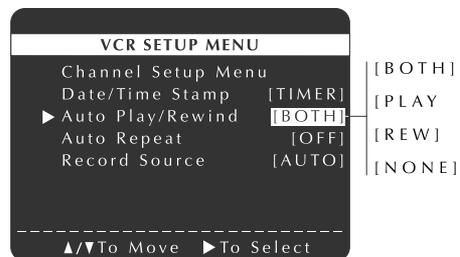
NONE The date, time, and record source will not be stamped.



Auto Play/Rewind

Auto Play will start playing tapes without record safety tabs (such as rented movies) automatically when you insert them. Auto Rewind will rewind videos automatically at the end of the tape.

- 1 Press SETUP/ENTER.
- 2 Press ▲/▼ and ► to select VCR Setup Menu.



- Press **▲/▼** and **▶** to select and set Auto Play/Rewind as follows:
 - BOTH** Enables both Auto Play and Auto Rewind.
 - PLAY** Enables Auto Play only. Tapes without record safety tabs will play automatically when inserted.
 - REW** Enables Auto Rewind only. Tapes will rewind automatically at the end of the tape.
 - NONE** Disables both Auto Play and Auto Rewind.

Auto Repeat

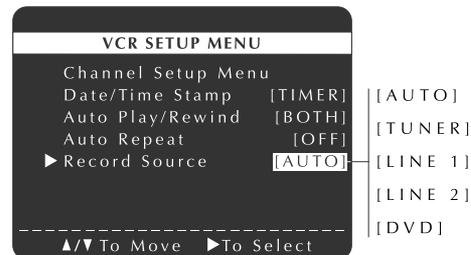
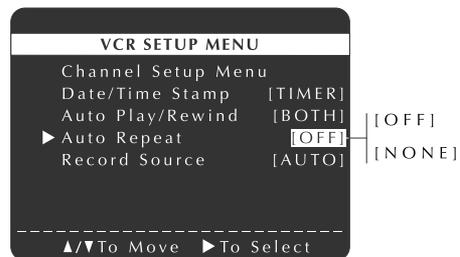
Auto Repeat will automatically repeat playback of VHS tapes.

- Press **SETUP/ENTER**.
- Press **▲/▼** and **▶** to select VCR Setup Menu.
- Press **▲/▼** and **▶** to select and set Auto Repeat as follows:
 - OFF** Auto Repeat is off. Tapes will play once.
 - ON** Auto Repeat is on. Tapes will repeat.

Record Source

Record Source tells the DVD+VCR what to record when you press the **REC** ● button with a tape in the VCR deck.

- Press **SETUP/ENTER**.
- Press **▲/▼** and **▶** to select VCR Setup Menu.
- Press **▲/▼** and **▶** to select and set Record Source as follows:
 - AUTO** Records whatever is currently visible on screen (recommended).
 - TUNER** Records from television via the DVD+VCR built-in tuner.
 - LINE 1** Records from an external source, such as a satellite receiver, connected to the rear audio/video inputs.
 - LINE 2** Records from an external source, such as a camcorder, connected to the front audio/video inputs.
 - DVD** Records from a disc playing in the DVD deck.



:: Clock Setup

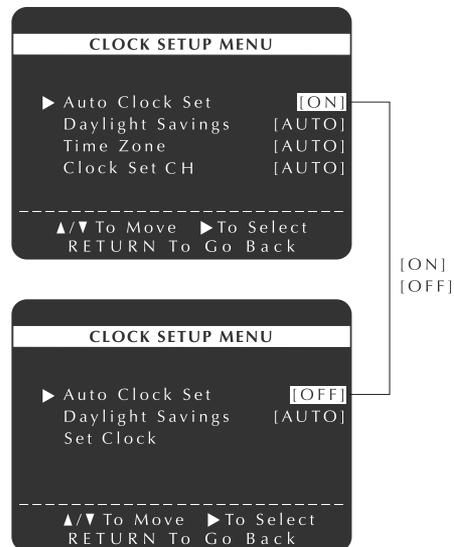
Auto Clock Set

Auto Clock Set will automatically seek the time in your area from stations broadcasting XDS (extended data services). If the time is set incorrectly, try setting Daylight Savings and Time Zone manually. If the time is not set at all, or if you are using the cable box hookup, turn off Auto Clock Set and set the clock manually; see page 22.

- 1 Press SETUP/ENTER.
- 2 Press ▲/▼ and ► to select Clock Setup Menu.
- 3 Press ▲/▼ and ► to select and set Auto Clock Set as follows:
 - ON** Auto Clock Set is on. The DVD+VCR will search for a local channel and detect the time automatically.
 - OFF** Auto Clock Set is off. To set the clock manually, see page 22.



- If Auto Clock Set is off, then Time Zone and Clock Set CH will not appear on the Clock Setup Menu.



Daylight Savings

If the DVD+VCR sets your clock incorrectly, try adjusting Daylight Savings manually.

- 1 Press SETUP/ENTER.
- 2 Press ▲/▼ and ► to select Clock Setup Menu.
- 3 Press ▲/▼ and ► to select and set Daylight Savings as follows:
 - AUTO** The DVD+VCR automatically uses local channel information to determine the status of Daylight Savings Time in your area, and then sets the clock accordingly.
 - OFF** The DVD+VCR does not adjust the clock for Daylight Savings Time.
 - ON** The DVD+VCR adds one hour at 2:00 AM on the first Sunday of April and subtracts one hour at 2:00 AM on the last Sunday in October.



Time Zone

If the DVD+VCR sets your clock incorrectly, try adjusting Time Zone manually.

- 1 Press SETUP/ENTER.
- 2 Press ▲/▼ and ► to select Clock Setup Menu.
- 3 Press ▲/▼ and ► to select and set Time Zone as follows:

AUTO Automatically detects your local time zone.

EASTERN Selects Eastern Standard Time.

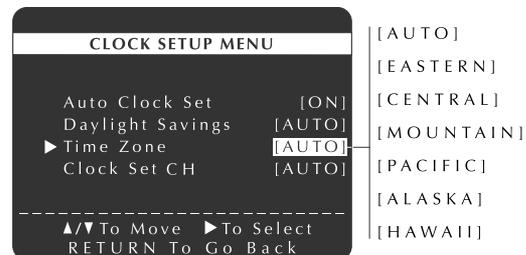
CENTRAL Selects Central Standard Time.

MOUNTAIN Selects Mountain Standard Time.

PACIFIC Selects Pacific Standard Time.

ALASKA Selects Alaska Standard Time.

HAWAII Selects Hawaii Standard Time.



Clock Set Channel

If you know a local station that broadcasts the time, or want to synchronize the DVD+VCR clock to another audio/video component, you can set the Clock Set Channel manually.

- 1 Press SETUP/ENTER.
- 2 Press ▲/▼ and ► to select Clock Setup Menu.
- 3 Press ▲/▼ and ► to select and set Clock Set CH as follows:

AUTO Automatically searches for a local channel broadcasting the time.

CH## Searches for the time on a channel you specify (such as PBS). Use the 0-9 keys to enter the desired channel.

LINE 1 Allows the clock to be set from a device attached to your DVD+VCR's rear audio/video inputs.

LINE 2 Allows the clock to be set from a device attached to your DVD+VCR's front audio/video inputs.



Set Clock Manually

If Auto Clock Set is not available in your area, follow these steps to set the clock manually.

- 1 Press SETUP/ENTER.
- 2 Press ▲/▼ and ► to select Clock Setup Menu.
- 3 Press ▲/▼ and ► to select and set Auto Clock Set to OFF. Time Zone and Clock Set Channel will be removed from the menu.
- 4 Press ▲/▼ and ► to select Set Clock. Set the date and time as follows:

SET MONTH Enter the month as a 2-digit number; e.g., for January, press 01.

SET YEAR Enter the year as a 2-digit number; e.g., for 2002, press 02.

SET DAY Enter the day as a 2-digit number; e.g., for the ninth, press 09.

SET HOUR Enter the hour as a 2-digit number; e.g., for 12:00, press 12.

SET MINUTE Enter the minutes as a 2-digit number; e.g., for 12:00, press 00.

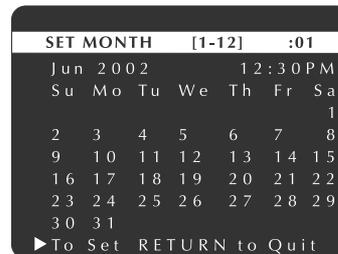
SET AM/PM Press 1 for AM or 2 for PM.

- To correct an entry, press CLEAR, and then re-enter the numbers.
- To skip an entry without changing it, press the RIGHT arrow key.
- You can also use the UP/DOWN arrow keys to set each option.

- 5 Press RETURN to save and exit the menu system.



- *If Auto Clock Set is available but has set the time incorrectly, try adjusting Daylight Savings Time and Time Zone before setting the clock manually.*



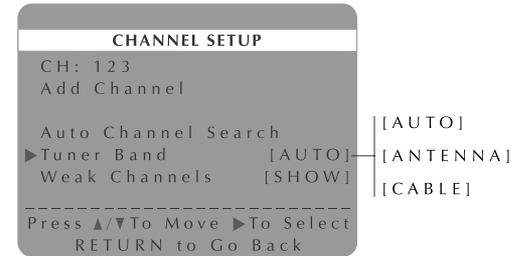
SET MONTH [1-12]
 SET YEAR [00-99]
 SET DAY [1-31]
 SET HOUR [1-12]
 SET MINUTE [1-12]
 SET AM/PM [AM/PM]

:: Channel Setup

Tuner Band

Tuner Band tells the DVD+VCR whether you are using an antenna or cable (CATV) to receive incoming television signals.

- 1 Press SETUP/ENTER.
- 2 Press ▲/▼ and ► to select VCR Setup Menu.
- 3 Press ▲/▼ and ► to select Channel Setup Menu.
- 4 Press ▲/▼ and ► to select and set Tuner Band as follows:
 - AUTO** Automatically detects whether you are receiving channels from antenna or cable.
 - ANTENNA** Specifies that you are receiving channels from an indoor/outdoor antenna.
 - CABLE** Specifies that you are receiving channels from cable television (CATV).



Auto Channel Search

Auto Channel Search seeks out all available channels in the selected Tuner Band.

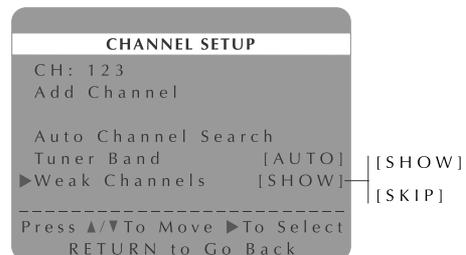
- 1 Press SETUP/ENTER.
- 2 Press ▲/▼ and ► to select VCR Setup Menu.
- 3 Press ▲/▼ and ► to select Channel Setup Menu.
- 4 Press ▲/▼ and ► to select Auto Channel Search.
- 5 The DVD+VCR automatically searches for all available channels in the selected Tuner Band and stores them in memory. This may take a few minutes.
- 6 When finished, the DVD+VCR displays the lowest channel found.



Show Weak Channels

When you select channels with weak signals, you can choose to view a distorted picture or replace it with a blue screen.

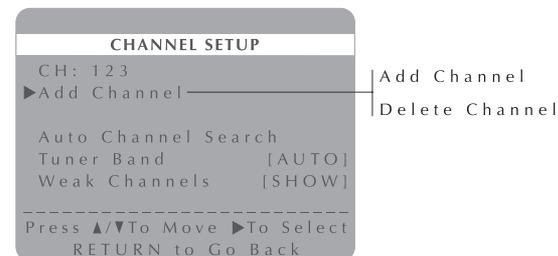
- 1 Press SETUP/ENTER.
- 2 Press ▲/▼ and ► to select VCR Setup Menu.
- 3 Press ▲/▼ and ► to select Channel Setup Menu.
- 4 Press ▲/▼ and ► to select and set Weak Channels as follows:
 - SHOW** Channels with weak signal strength will be displayed.
 - SKIP** Channels with weak signal strength will be replaced by a blue screen.



Add/Delete Channels

After running Auto Channel Search, follow these steps to add or delete channels from the list:

- 1 Press SETUP/ENTER.
- 2 Press ▲/▼ and ► to select VCR Setup Menu.
- 3 Press ▲/▼ and ► to select Channel Setup Menu.
- 4 Use the 0-9 keys or the CH ▲/▼ keys to enter the channel number you wish to add or delete.
- 5 Press ▲/▼ and ► to select Add Channel or Delete Channel.
- 6 Press ► to Add or Delete the channel.



:: DVD Setup

TV Aspect Ratio

TV Aspect Ratio refers to the shape of your television, expressed as the length divided by the width of the screen. Standard television screens are 4:3, while widescreen televisions are 16:9. It is important to set the TV Aspect Ratio so DVD movies display at the appropriate size for your television.

- 1 Press SETUP/ENTER.
- 2 Press ▲/▼ and ► to select DVD Setup Menu.
- 3 Press ▲/▼ and ► to select and set TV Aspect Ratio as follows:

4:3 PS Pan and Scan. Select if you have a standard 4:3 television and want the player to display the standard “full-screen” versions of DVD movies (if available).

4:3 LB Letterbox. Select if you have a standard 4:3 television and want the player to display the “widescreen” version of DVD movies. Movies will display in letterbox format; i.e., black bars will appear above and below the picture.

16:9 Select if you have a widescreen 16:9 television.



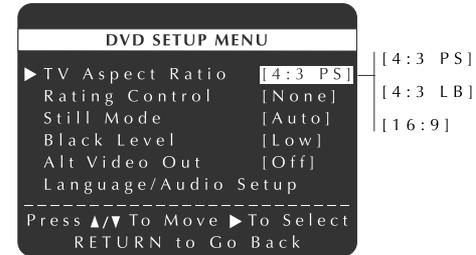
- *Pan and Scan is a technique used to crop widescreen (16:9 and wider) movies to fit 4:3 television screens. The picture is selectively cropped by “panning and scanning” to keep the most important parts of the picture visible at all times.*

For Rating Control, please see page 30.

Still Mode

Still Mode provides two methods of freezing a single frame of a DVD movie:

- 1 Press SETUP/ENTER.
Press ▲/▼ and ► to select DVD Setup Menu.
- 2 Press ▲/▼ and ► to select and set Still Mode as follows:
 - AUTO** Automatically selects the optimal Still Mode by detecting motion in the scene.
 - FIELD** Select if the screen shakes in AUTO mode.
 - FRAME** Select if you want to see fine text more clearly than in AUTO mode.



Black Level

Black Level allows you to set the reference level for black in the video signal:

- 1 Press SETUP/ENTER.
- 2 Press ▲/▼ and ► to select DVD Setup Menu.
- 3 Press ▲/▼ and ► to select and set Black Level as follows:
 - LOW** Enhanced black level for increased brightness/contrast when viewing DVDs.
 - HIGH** Standard NTSC reference black level for consistent brightness/contrast across all sources.



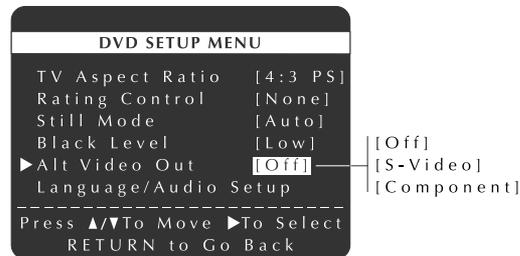
Alt Video Out

If you connected the DVD+VCR to your television using the S-Video or Component Video Out jacks, you **MUST** set the Alt Video Out to activate your selection. You can **ONLY** watch DVDs through the S-Video or Component Video outputs. The tuner and VCR deck will still be viewed through the RF or line outputs.

- 1 Press SETUP/ENTER.
 - Make sure the DVD deck is stopped before pressing SETUP/ENTER. You will not be able to enter the DVD Setup menu if a DVD is playing.
- 2 Press ▲/▼ and ► to select DVD Setup Menu.
- 3 Press ▲/▼ and ► to select and set Alt Video Out as follows:
 - OFF** Component and S-Video outputs are disabled.
 - S-VIDEO** The S-Video Output is enabled for watching DVDs only.
 - COMPONENT** The Component Video Output is enabled for watching DVDs only.



- You can **ONLY** watch the DVD player through the S-Video or Component Video connection method. The tuner and VCR will still be viewed through the RF or line inputs.



:: Language/Audio Setup

Audio Language

Select your preferred language for DVD audio soundtracks:

- 1 Press SETUP/ENTER.
 - Make sure the DVD deck is stopped before pressing SETUP/ENTER. You will not be able to enter the DVD Setup menu if a DVD is playing.
- 2 Press ▲/▼ and ► to select DVD Setup Menu.
- 3 Press ▲/▼ and ► to select Language/Audio Setup.
- 4 Press ▲/▼ and ► to select Audio Language.
- 5 Press ▲/▼ and ► to select the desired Audio Language, and then press SETUP/ ENTER.



- Select ORIGINAL to select the disc's default Audio Language.
- Select MORE to view additional languages.
- Languages vary from disc to disc. The disc itself may override your selection.

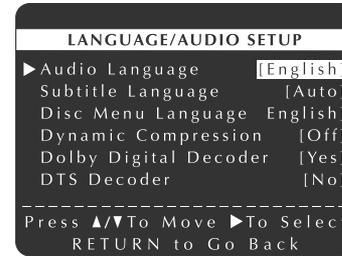
Subtitle Language

Select your preferred language for DVD subtitles:

- 1 Press SETUP/ENTER.
 - Make sure the DVD deck is stopped before pressing SETUP/ENTER. You will not be able to enter the DVD Setup menu if a DVD is playing.
- 2 Press ▲/▼ and ► to select DVD Setup Menu.
- 3 Press ▲/▼ and ► to select Language/Audio Setup.
- 4 Press ▲/▼ and ► to select Subtitle Language.
- 5 Press ▲/▼ and ► to select the desired Subtitle Language, and then press SETUP/ ENTER.



- Select AUTO to select the disc's default Subtitle Language.
- Select MORE to view additional languages.
- Subtitles vary from disc to disc. The disc itself may override your selection.



[English]
[Français]
[Español]
[Deutsch]
[Italiano]
[Nederlands]
[Original]
[Cesky]
[Dansk]
[Magyar]
[Svenska]
[Norsk]
...



[Auto]
[English]
[Français]
[Español]
[Deutsch]
[Italiano]
[Nederlands]
[Original]
[Cesky]
[Dansk]
[Magyar]
[Svenska]
...

Disc Menu Language

Select your preferred language for DVD disc menus:

- 1 Press SETUP/ENTER.
 - Make sure the DVD deck is stopped before pressing SETUP/ENTER. You will not be able to enter the DVD Setup menu if a DVD is playing.
- 2 Press ▲/▼ and ► to select DVD Setup Menu.
- 3 Press ▲/▼ and ► to select Language/Audio Setup.
- 4 Press ▲/▼ and ► to select Disc Menu Language.
- 5 Press ▲/▼ and ► to select the desired Disc Menu Language, and then press SETUP/ ENTER.

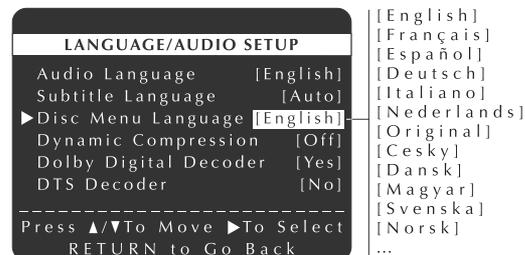


- Select *MORE* to view additional languages.
- Languages vary from disc to disc. The disc itself may override your selection.

Dynamic Compression

Dynamic Compression narrows the total dynamic range of the DVD soundtrack, so quiet passages will be louder and loud passages will be softer. This is convenient for watching movies late at night, or whenever you want to constrain the volume to a steady level.

- 1 Press SETUP/ENTER.
 - Make sure the DVD deck is stopped before pressing SETUP/ENTER. You will not be able to enter the DVD Setup menu if a DVD is playing.
- 2 Press ▲/▼ and ► to select DVD Setup Menu.
- 3 Press ▲/▼ and ► to select Language/Audio Setup.
- 4 Press ▲/▼ and ► to select and set Dynamic Compression as follows:
 - OFF** Dynamic compression is off.
 - ON** Dynamic compression is on.



Dolby Digital Decoder

If you have connected the DVD+VCR to an audio/video receiver equipped with a Dolby Digital Decoder, you must enable this feature in the menu system to enjoy Dolby Digital surround sound.

- 1 Press SETUP/ENTER.
 - Make sure the DVD deck is stopped before pressing SETUP/ENTER. You will not be able to enter the DVD Setup menu if a DVD is playing.
- 2 Press ▲/▼ and ► to select DVD Setup Menu.
- 3 Press ▲/▼ and ► to select Language/Audio Setup.
- 4 Press ▲/▼ and ► to select and set Dolby Digital Decoder as follows:
 - YES** Indicates that your audio/video receiver is equipped with a Dolby Digital Decoder.
 - NO** Indicates that your audio/video receiver is NOT equipped with a Dolby Digital Decoder.



- To prevent damage to your speakers, do not select YES, unless you have connected a Dolby Digital-equipped audio/video receiver to the Digital Audio Output (coaxial) on the DVD+VCR back panel.



DTS Decoder

If you have connected the DVD+VCR to an audio/video receiver equipped with a DTS Decoder, you must enable this feature in the menu system to enjoy DTS surround sound.

- 1 Press SETUP/ENTER.
 - Make sure the DVD deck is stopped before pressing SETUP/ENTER. You will not be able to enter the DVD Setup menu if a DVD is playing.
- 2 Press ▲/▼ and ► to select DVD Setup Menu.
- 3 Press ▲/▼ and ► to select Language/Audio Setup.
- 4 Press ▲/▼ and ► to select and set DTS Decoder as follows:
 - NO** Indicates that your audio/video receiver is NOT equipped with a DTS Decoder.
 - YES** Indicates that your audio/video receiver is equipped with a DTS Decoder.



- To prevent damage to your speakers, do not select YES unless you have connected a DTS -equipped audio/video receiver to the Digital Audio Output (coaxial) on the DVD+VCR back panel.



:: Rating Control Setup

Set/Change Rating Level

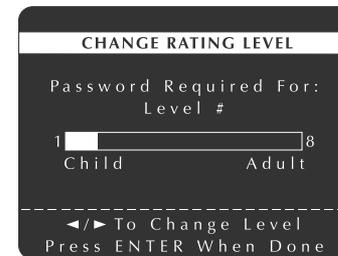
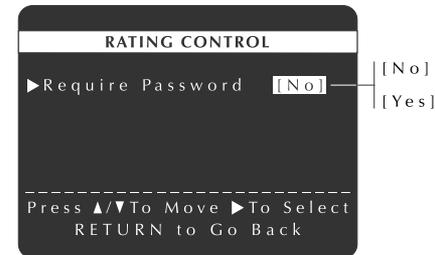
- 1 Press SETUP/ENTER.
- 2 Press ▲/▼ and ► to select DVD Setup Menu.
- 3 Press ▲/▼ and ► to select Rating Control. If the Enter Password screen appears, then Require Password has already been set to Yes. Skip to step 5.
- 4 Press ▲/▼ and ► to select and set Require Password as follows:
NO Indicates that Rating Control is disabled.
YES Indicates that Rating Control is enabled, and a password is required to change Rating Control options.
- 5 Enter a 4-digit password using the 0-9 keys on the remote control. Be sure to write down your password and store it in a safe place!
- 6 Press ▲/▼ and ► to select Change Rating Level.
- 7 Press ▲/▼ and ► to select the desired Rating Level, and then press SETUP/ENTER to save and exit.



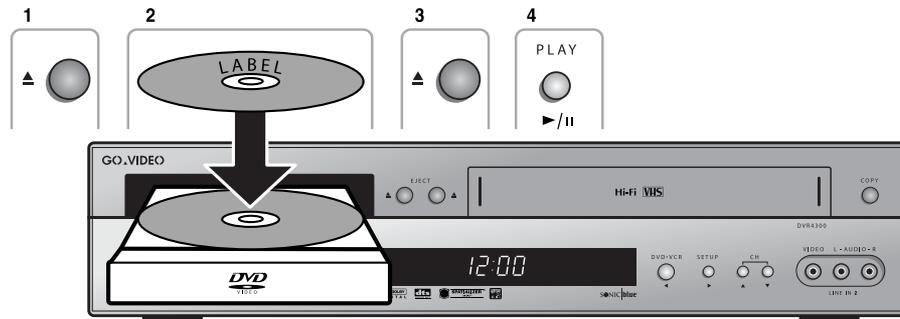
- *Not all DVDs are rated. (DVDs that are rated higher than the level you select will not play without entering the password.)*

Change Password

- 1 Press SETUP/ENTER.
- 2 Press ▲/▼ and ► to select DVD Setup Menu.
- 3 Press ▲/▼ and ► to select Rating Control.
- 4 Use the 0-9 keys to enter the current password.
- 5 Press ▲/▼ and ► to select Change Password.
- 6 Use the 0-9 keys to enter the new password.
- 7 Use the 0-9 keys to re-enter the same password.
- 8 A menu will appear to indicate whether or not the password has been successfully changed. Press SETUP/ENTER to continue.
- 9 Press RETURN repeatedly to exit the menu system.



:: Basic Disc Playback



To Play a DVD, CD or VCD

- 1 Press EJECT on the remote control or front panel to open the disc drawer. The DVD+VCR will power on automatically when you open the disc drawer.
- 2 Place the disc in the drawer with the label side facing up. If the disc has two sides, place the disc with the desired side facing up.
- 3 Press EJECT again to close the disc drawer.
- 4 Press PLAY/PAUSE ▶/|| on the remote control or front panel to begin playback. Many discs will begin playback automatically when the disc drawer closes.



- *If the DVD has a disc menu, or more than one title, the disc menu may appear. If so, press ▲/▼ & ◀▶ to highlight menu items, then press SETUP/ENTER to make selections.*
- *If the disc is scratched, dirty, or not encoded for Region 1, you will receive an error message and the disc will not play.*

Additional Disc Playback Options

- To freeze playback, press PLAY/PAUSE ▶/||.
- To advance one frame at a time (DVD only), press SKIP/F.ADV.
- To resume normal playback, press PLAY/PAUSE ▶/||.
- To skip to the next or previous chapter/track, press FF ▶▶ or REW ◀◀.
- To scan forward or backward at variable speeds, press and hold FF ▶▶ or REW ◀◀ during playback.
- To play in slow motion at variable speeds, first press PLAY/PAUSE ▶/||, and then press FF ▶▶. Each press will increase the rate of slow motion playback (DVD only).
- To stop playback temporarily, press STOP ■ once. To resume playback from the same place on the disc, press PLAY/PAUSE ▶/||.
- To stop playback completely and restart the disc, press STOP ■ twice.



:: Basic VCR Playback



To Play a VHS Tape

- 1 Insert a standard VHS tape into the VCR deck. The DVD+VCR will power on automatically when you insert the tape.
- 2 Press PLAY/PAUSE ▶/|| to begin playback.



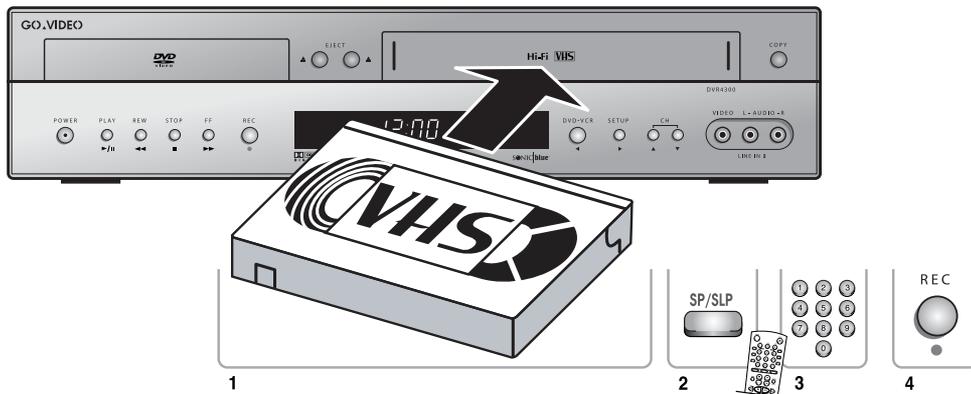
- If the tape is missing the record safety tab and Auto Play is turned on, the tape will begin playing automatically, see page 18.

Additional VCR Playback Options

- To freeze playback, press PLAY/PAUSE ►/||.
- To advance one frame at a time when paused, press SKIP/F.ADV.
- To resume normal playback, press PLAY/PAUSE ►/||.
- To visually search forward and backward at 5 times normal speed, press and RELEASE FF ►► or REW ◀◀.
- To visually search forward and backward at 7 times normal speed, press and HOLD FF ►► or REW ◀◀.
- To scan ahead during playback in one-minute increments up to 5 minutes, press SKIP/F.ADV 1-5 times.
- To replay the last 30 seconds of tape during playback, press MODE/REPEAT.
- To gradually increase the cue speed, press SHUTTLE >> repeatedly. To gradually decrease the review speed, press SHUTTLE << repeatedly.
- To adjust tracking manually during playback, press TRK +/- . To resume automatic tracking, press AUTO.
- For VCR recording features, see page 34.
- For Timer Recording, see page 37.



:: Basic VCR Recording



To Record to VHS Tape

- 1 Insert a standard VHS tape with a record safety tab into the VCR deck.
 - If the record safety tab is removed, the tape will eject if you try to record.
- 2 Press SP/SLP to set the record speed to:
 - SP** Standard Play, for best quality.
 - SLP** Super Long Play, for maximum recording time (3 times longer than SP).
- 3 Use the 0-9 keys or the CH ▲/▼ keys to select the channel you wish to record.
- 4 Press REC ● to start recording.



- *To record from an external device, connect the device to the rear (Line 1) or front (Line 2) audio/video inputs, press TV VIEW until you see Line 1 or Line 2, then press REC ●.*

Options During Recording

- To pause recording, press PLAY/PAUSE ►/||.
- To resume recording, press REC ● again.
- To stop recording, press STOP ■.
- To watch another television program while you are recording, press TV/VCR to switch to TV mode, then select a different channel on your television.
- To watch a DVD while you are recording, press DVD to select the DVD deck, then press PLAY/PAUSE ►/||.



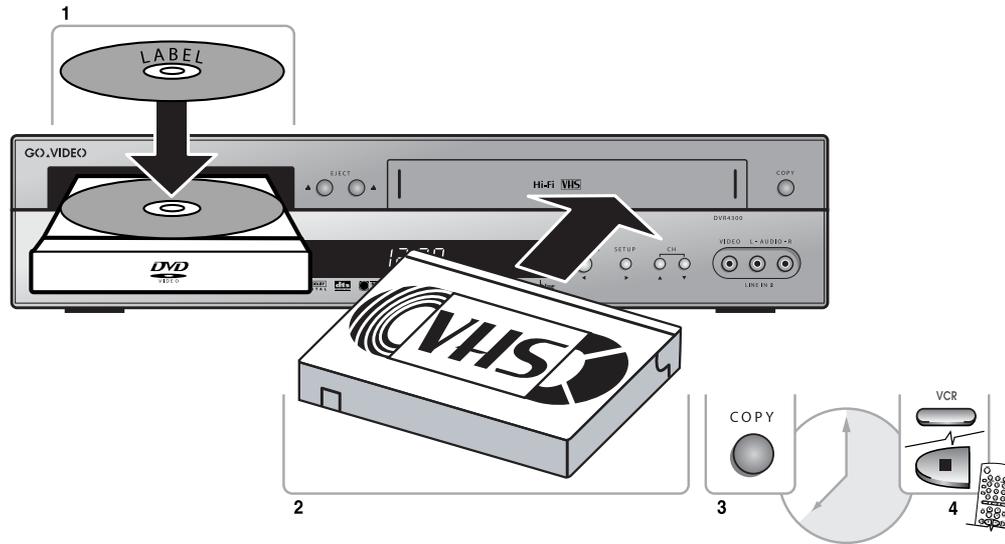
One-Touch Recording

To add recording time in 30-minute increments, press REC ● repeatedly. OTR appears on the on-screen display, followed by the number of minutes the DVD+VCR will record. Continue pressing REC ● to add up to 9 hours and 30 minutes of continuous recording. When the recording time has elapsed, the DVD+VCR will stop.

- If you press POWER during One-Touch Recording, the DVD+VCR will turn off automatically when the recording time has elapsed.
- To cancel OTR, press STOP ■.



:: Copying DVD to VHS



To copy a DVD to VHS tape

- 1 Insert the disc you wish to copy in the DVD deck and close the drawer.
- 2 Insert a VHS tape with a record safety tab into the VCR deck.
- 3 Press COPY on the DVD+VCR front panel.
 - The DVD will begin playback and the VCR will begin recording.
 - If the DVD disc menu appears, press PLAY/PAUSE ►/|| to begin copying.
- 4 When the DVD is finished playing, press VCR on the remote control and then press STOP ■ to end the copy.
 - You must stop the copy process manually when the DVD movie ends, or the DVD may replay and record over and over again.
 - If the DVD you are attempting to copy is copy protected, you will not be able to copy the disc. It is not permitted to copy Macrovision® encoded DVDs.

:: Timer Recording

To Set a Timer Recording

- 1 Insert a standard VHS tape with a record safety tab into the VCR deck.
- 2 Press SET TIMER.
 - If the clock has not been set, the Clock Setup Menu will appear. You MUST set the clock before you can program a Timer Recording (see page 22).
- 3 Press ▲/▼ and ► or use the 0-9 keys as directed to:
 - Choose an event number (1-8).
 - Set the event date and time (month, day, hour, minute, and AM/PM)
 - Set the event length (hours and minutes).
- 4 Press ▲/▼ and ► or use the 1-4 keys to set the event type:
 - Once** Records the event once.
 - M-F** Records the event Monday through Friday.
 - Weekly** Records the event once a week.
 - Always** Records the event every day.
- 5 Press ▲/▼ and ► or use the 1-3 keys to set the record source:
 - Ch##** Records from television. Use the 0-9 keys to enter the channel you wish to record. If you are recording from a cable box, set the Record Source to channel 2, 3, or 4 -- whichever channel your cable box uses -- and then select the channel to record on the cable box.
 - Line 1** Records from an external source connected to the rear line inputs.
 - Line 2** Records from an external source connected to the front line inputs.
- 6 Press ▲/▼ and ► or use the 1-3 keys to set the record speed:
 - Auto** Activates Complete Program Record (see page 38).
 - SP** Sets the record speed to Standard Play. Use for best quality (a T-120 tape will record for 2 hours).
 - SLP** Sets the record speed to Super Long Play. Use for maximum recording time (a T-120 tape will record for 6 hours).
- 7 Press RETURN to confirm and view a summary of the event, as well as any other programmed events.
- 8 Select another event number or press RETURN to exit.
 - The event is now stored in memory and will record at the scheduled time. It is not necessary to turn the DVD+VCR off or put it into a Timer mode; the event will record regardless of the state of the DVD+VCR.



Set Month
Set Day
Set Hour
Set Minute
Set AM/PM
Set Length
Set Type
Set Source
Set Channel
Set Speed



- The Timer indicator will light when an event is programmed. If there is an error, the Timer indicator will blink (see *Timer Recording Errors* below).
- To delete an event, use ▲/▼ and ► to select it, then press CLEAR.

Timer Recording Errors

Tape Missing Insert a VHS tape in the VCR deck.

Tape Missing Tab Insert a VHS tape with a record safety tab.

Deck Not Ready The tape in the VCR deck is already in use. Select the VCR deck, then press STOP ■.

Overlapping Events If two events overlap, you will be prompted to delete one of the events, or allow them to overlap. If you allow them to overlap, the event with the earliest starting time will be completely recorded, then the remainder of the event with the next earliest starting time will be recorded.

Event List Full Press ENTER to view the list of events. Select an event to delete, and then press CLEAR.

Event in the Past If you try to create an event that is in the past, you will receive an error message. However if the event started in the past, but has not ended yet, the deck will begin recording immediately.



Complete Program Record (CPR)

Complete Program Record (CPR) automatically adjusts the recording speed so you don't run out of tape before the recording is complete. When Record Speed is set to Auto, the DVD+VCR will begin recording in SP. It will then calculate how much time is remaining on the tape and adjust the record speed to SLP if necessary. If there is not enough room to record the entire show, the DVD+VCR will record in SLP until the end of the tape is reached.

:: MP3 Playback

MP3 is a popular music format which allows you to compress music files up to 1/12 of their original size while retaining near CD quality sound. Your DVD-VCR can playback MP3 files burned onto a CD-R/RW disc.

- 1 Insert a CD-R/RW disc with MP3 files into the DVD deck. The MP3 main menu will appear after a few seconds and the first song on the disc will begin playing.
- 2 Press ▲/▼ to select the folder on the CD-R/RW which contains the MP3 files you want to hear, then press SETUP/ENTER to select.
 - If there are more than 8 folders on the disc, press RETURN to view additional folders.
 - If there are no folders on the CD-R/RW, skip to Step 3.
- 3 Press ▲/▼ to select the desired MP3 file.
 - If there are more than 8 MP3 files in the selected folder, push ◀▶ to view additional MP3 files.
 - File names are truncated to eight characters: the first six characters of the song, plus an asterisk (*), then a number.
 - Press RETURN to back up and select another folder.
- 4 Press SETUP/ENTER to play the selected song.
 - While the song is playing, press ▲/▼ to browse through other folders.
- 5 Press STOP ■ to stop playback.



- *To ensure proper playback of discs burned from MP3 files, make sure the files have been recorded at a bit rate of at least 128 kbps.*
- *If there are any gaps (blank data) on multi-session discs, you may experience playback problems.*
- *On discs that are recorded with a Variable Bit Rate (VBR), e.g. from 32 to 320 kbps, the sound may cut in and out.*



:: Special Playback Features

Title/Chapter/Time

DVDs are organized into Titles (movies) and Chapters (individual scenes), while CDs are organized into Tracks (songs). To jump to a specific Title, Chapter or Time on your disc:

- 1 Press DISPLAY during DVD/CD playback.
- 2 Press ◀▶ to select Title, Chapter or Time.
- 3 Press ▲▼ to select from all available Titles or Chapters on the disc.

OR

Use the number keys (0-9) to enter the desired Time (counter position) in hours, minutes and seconds.

- 4 Press SETUP/ENTER to jump to the desired Title, Chapter or Time.



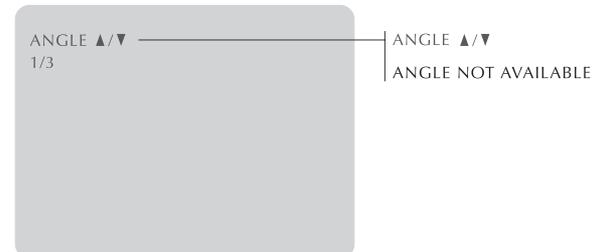
Angle

Some DVDs contain scenes filmed from multiple angles. The Angle icon appears when additional angles are available. To select the angle you wish to view:

- 1 Press ANGLE when you see the Angle icon appear on screen during DVD playback.
- 2 Press ▲▼ to select the desired screen angle.
- 3 Press SETUP/ENTER to view the scene from the selected angle.



- *The Angle feature is not available during VCD playback.*



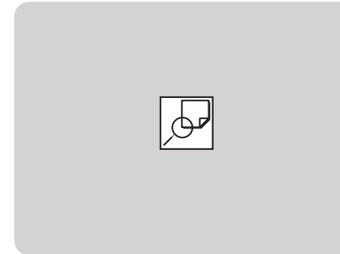
Zoom

To zoom in at two or four times normal magnification during DVD playback:

- 1 Press ZOOM during DVD playback to display the magnifying glass.
- 2 Press ▲/▼ and ◀▶ to move the magnifying glass.
- 3 Press SETUP/ENTER repeatedly to zoom in at 2X, 4X, 2X, then back to normal magnification.



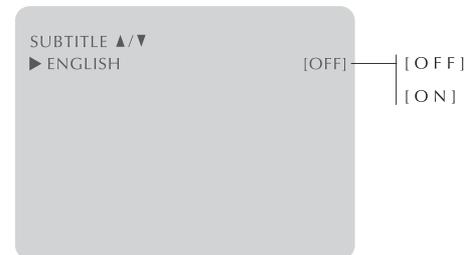
- *The Zoom feature is not available during VCD playback.*



Subtitle

Many DVDs contain subtitles in multiple languages. To select among all available subtitle languages:

- 1 Press SUBTITLE during DVD playback.
- 2 Press ▲/▼ to select from all available subtitle languages.
- 3 Press ◀▶ to turn the selected subtitle language on or off.
- 4 Press SETUP/ENTER to confirm your selection.



Audio

Many DVDs contain multiple audio formats, such as Dolby Digital 5.1 or 2-Channel Stereo, or soundtracks in multiple languages. To select among all available audio formats/soundtracks:

- 1 Press AUDIO during DVD playback.
- 2 Press ▲/▼ to select from all available audio formats/soundtracks.
- 3 Press SETUP/ENTER to confirm your selection.



- *In CD mode, the AUDIO button selects Stereo, Right or Left.*
- *In VCR mode, the AUDIO button selects Hi-Fi or Mono.*
- *In Tuner mode, the AUDIO button selects Stereo, Mono, SAP (Second Audio Program) or TV+SAP.*



3D Sound

3D Audio is an enhanced audio mode that creates the illusion of Surround Sound with only two speakers. This feature uses Spatializer N-2-2 digital virtual surround processing. To activate 3D Sound:

- 1 Press 3D SOUND during DVD playback.
- 2 Press ▲/▼ to turn 3D Sound On or Off.
- 3 Press SETUP/ENTER again to confirm your selection.



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Repeat Title/Chapter

To repeat a Title/Chapter of a DVD (or a Disc/Track of a CD):

- 1 Press MODE/REPEAT during DVD playback.
- 2 Press ◀/▶ to select Title/Chapter (DVD), or Disc/ Track (CD).
- 3 Press SETUP/ENTER to begin repeating your selection.
- 4 To cancel the selected Repeat mode, press MODE/REPEAT, press ◀/▶ to highlight Off, then press SETUP/ENTER.



A-B Repeat

The A-B Repeat function allows you to repeat a segment of a DVD or CD. To program A-B Repeat:

- 1 Press MODE/REPEAT during DVD/CD playback.
- 2 Press ◀/▶ to select A-B. The A will blink when A-B is selected.
- 3 Press SETUP/ENTER at the beginning of the segment you want to repeat. The B will blink after Point A is selected.
- 4 Press SETUP/ENTER again at the end of the segment you want to repeat. The segment will begin repeating in a continuous loop.
- 5 To cancel, press MODE/REPEAT, press ◀/▶ to highlight Off, then press SETUP/ENTER.



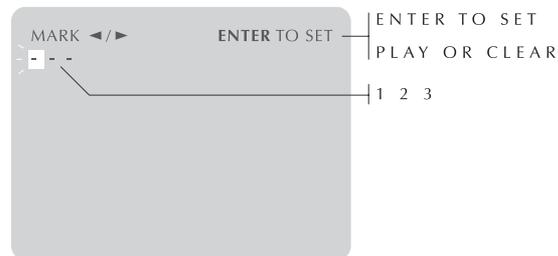


- The minimum A-B Repeat time is 5 seconds.

Bookmarks

Bookmarks allow you to jump quickly to your favorite scenes in a DVD movie. To set up to three bookmarks:

- 1 Press MARK during DVD playback.
- 2 Press ◀▶ to move to one of the three bookmark placeholders (- - -). The selected placeholder will blink.
- 3 Press SETUP/ENTER at the beginning of the scene you want to mark. The placeholder will change to a number (1, 2 or 3) and the bookmark is set.
- 4 Press MARK to exit.
- 5 To jump to a bookmark, press MARK, press ◀▶ to move to a saved bookmark, then press PLAY/PAUSE ▶||.
- 6 To cancel a bookmark, press MARK, press ◀▶ to move to a saved bookmark, then press CLEAR.



Random Playback

To play DVD Chapters or CD Tracks in random order:

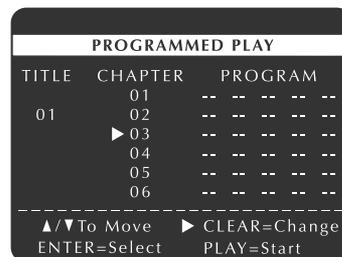
- 1 Press MODE/REPEAT while a DVD/CD is in Stop mode.
- 2 Press ▲/▼ and ▶ to select Random Play. The disc will play back automatically in random order.
- 3 Press CLEAR to cancel Random Play. “Off” will appear on the OSD.



Programmed Playback

Programmed Playback lets you play DVD chapters or CD tracks in a custom order.

- 1 Press MODE/REPEAT while a DVD/CD is in Stop mode.
- 2 Press ▲/▼ and ▶ to select Programmed Play.
- 3 Press ▲/▼ to select the first chapter/track in your desired playback list, then press SETUP/ ENTER to add it to your playlist



- Repeat this process until all chapters/tracks are added in the desired order.
 - To change a selection, press CLEAR.
- When finished adding Chapters/Tracks, press PLAY/PAUSE ►/||. The disc will play in the programmed order.
- To cancel Programmed Play, open the disc drawer.

:: Search Features

About Index Marks

Index Marks are like bookmarks on your VHS tapes that help you easily find the start of any recording. Index Marks are inserted automatically during standard recording, one-touch recording, timer recording, or copying. You can also place Index Marks manually anywhere on a tape by pressing the SEARCH/INDEX button while a recording is in progress. Later you can search or scan for these bookmarks in the Search Menu.

Index Search/Scan

To search or scan for specific recordings:

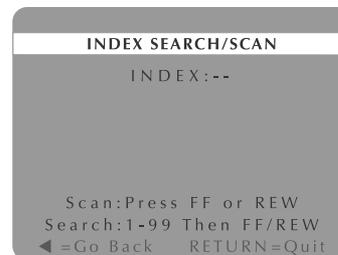
- Insert a VHS tape with recorded material in the VCR deck.
- While the tape is stopped or playing, press SEARCH/INDEX.
- Press ▲/▼ and ► to select Index Search/Scan:

Index Scan Press FF ►► or REW ◀◀ to begin scanning forward or backward. When an Index Mark is found, the tape will play for 5 seconds. If it is the scene you want, press PLAY/PAUSE ►/||. If it is not, the DVD+VCR will automatically search for the next Index Mark.

Index Search Enter an Index number from 1 to 99 (e.g., for 5 press 0-5), then press FF ►► or REW ◀◀ to begin searching forward or backward. When the VCR locates the specified Index Mark, it will play the tape.



- Use the Date/Time Stamp with Index Scan to make it even easier to find Timer Recordings on your tapes. For example, when Index Scan stops at an Index Mark, you will see the date and time the show was recorded.
- VISS, or VHS Index Search System is the VHS standard for indexing tapes and is compatible with tapes made on other VCRs and camcorders using the VISS system.



Blank Search

Blank Search makes it easy to find the next available blank (unrecorded) space on your VHS tapes.

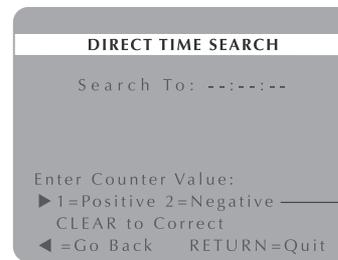
- 1 Insert a VHS tape with recorded material in the VCR deck.
- 2 While the tape is stopped or playing, press SEARCH/INDEX.
- 3 Press ▲/▼ and ► to select Blank Search.
- 4 If the DVD+VCR finds blank tape, it will stop automatically at the beginning of the blank segment.



Direct Time Search

Direct Time Search locates a specific tape counter position in hours, minutes and seconds.

- 1 Insert a VHS tape with recorded material in the VCR deck.
- 2 While the tape is stopped or playing, press SEARCH/INDEX.
- 3 Press ▲/▼ and ► to select Direct Time Search
- 4 Press 1 for positive or 2 for negative counter values.
- 5 Use the 0-9 keys to enter the desired time in hours, minutes and seconds.
 - Press CLEAR if you need to back up and re-enter a number.
- 6 Press SEARCH/INDEX to advance the tape to the specified time.



- 1=Positive 2=Negative
- Enter Hour [0-9]
- Enter Minute [00-59]
- Enter Seconds [00-59]
- Press SEARCH To Begi

Return to 0:00:00

Return to 0:00:00 automatically fast-forwards or rewinds your tape to counter position 0:00:00.

- 1 Insert a VHS tape with recorded material in the VCR deck.
- 2 While the tape is stopped or playing, press SEARCH/INDEX.
- 3 Press ▲/▼ and ► to select Return to 0:00:00.
- 4 The DVD+VCR will automatically rewind or fast-forward the tape to counter position 0:00:00.



:: Troubleshooting

Customer Service Information

The FAQs below will help you solve common issues with your DVD+VCR. If you don't find the answers you need here, you can contact our Customer Service Department as follows:

Phone (480) 922-0896 or (800) 736-7679

E-Mail customersupport@sonicblue.com

Web www.govideo.com or www.sonicblue.com

Frequently Asked Questions

Problem	Solution
Cannot access Setup menu.	<ul style="list-style-type: none"> Stop the DVD player. You cannot access the Setup menu while a disc is playing.
No sound from speakers.	<ul style="list-style-type: none"> Connect the DVD+VCR to a Dolby Digital-ready amplifier. You cannot connect speakers directly to the analog audio outputs because the unit does not have a built-in amplifier.
TV only shows Go-Video screen.	<ul style="list-style-type: none"> Connect the Composite and S-Video outputs to separate inputs on your television. If your television has one set of inputs for both S-Video and Composite, then the S-Video will override the Composite input.
Cannot play other regional DVDs.	<ul style="list-style-type: none"> The DVD-VCR will play Region 1 encoded discs only.
Cannot record on DVD deck.	<ul style="list-style-type: none"> The DVD deck does not allow recording.
Can I connect to surround sound system?	<ul style="list-style-type: none"> Yes, you can connect the DVD+VCR to an audio/video receiver or amplifier using the coaxial or optical digital outputs or analog audio outputs.
What types of discs can I play?	<ul style="list-style-type: none"> DVD Video, CD Digital Audio and CD Video.
Picture has black bars.	<ul style="list-style-type: none"> Make sure your TV Aspect Ratio is set properly to 4:3 or 16:9. Aspect ratios vary from disc to disc. The specific DVD may not offer a 4:3 full-screen version.

Auto Setup did not find all channels.	<ul style="list-style-type: none"> • If a cable box is connected, the DVD+VCR will only find the cable box output channel. Use the alternative cable box hookup.
No audio when playing VHS tapes.	<ul style="list-style-type: none"> • You may be watching video from the S-Video or Component video output. Use the RF or Line connection to play VHS tapes.
No picture.	<ul style="list-style-type: none"> • Press TV/VCR until the VCR indicator lights on the front panel display. • Set RF Output to channel 4; see page 17.
Poor picture quality on VCR.	<ul style="list-style-type: none"> • Set RF Output to channel 4; see page 17. • Adjust tracking with AUTO and TRK +/- keys. • Clean video heads with nonabrasive head cleaning tape.
Remote not working.	<ul style="list-style-type: none"> • Remove all obstacles and point directly at DVD+VCR. • Make sure batteries are fresh and properly installed. • Press DVD or VCR key. If you press DVD key, remote will only operate the DVD deck. If you press VCR key, remote will only operate the VCR deck.
On-screen display shows Error.	<ul style="list-style-type: none"> • Turn power off, then turn power on again. • Inspect tape/disc slots for foreign objects.
DVD+VCR doesn't work.	<ul style="list-style-type: none"> • Unplug DVD+VCR for 10 seconds, then plug it in again. • If it still doesn't work, unplug overnight (at least 6 hours), then plug it in again. If the clock is still set, you haven't unplugged it long enough. • If it still doesn't work, DVD+VCR must be serviced by an authorized service center.
Cannot record from cable box.	<ul style="list-style-type: none"> • Set DVD+VCR to cable box output channel 2, 3 or 4, then select desired channel on cable box.
Cannot Timer Record.	<ul style="list-style-type: none"> • Set clock to correct time.
Tape ejects during copy or record.	<ul style="list-style-type: none"> • Use tape with record safety tab. • Place adhesive tape over record safety tab opening.
VCR automatically plays and rewinds.	<ul style="list-style-type: none"> • Auto Play/Rewind is enabled. To turn off; see page 18.
Tape counters not moving on VCR deck.	<ul style="list-style-type: none"> • To display tape counters, the VCR deck requires control track, which is only present on prerecorded tapes.
No menu or on-screen displays.	<ul style="list-style-type: none"> • Tape may be blank (snow appears on screen). If so, menus and on-screen display cannot be shown. Stop tape or record on tape to enable displays.

TV shows blue screen.	<ul style="list-style-type: none"> • If current channel is too weak to display clear picture, a blue screen is displayed. • Double-check antenna connections or tuner settings.
Power button blinking.	<ul style="list-style-type: none"> • Unit is in Auto Power Off mode. If you press POWER while rewinding, copying, Timer Recording or One-Touch Recording, the unit will automatically turn off when that function is complete. • Press POWER to toggle Auto Power on and off.
No stereo sound.	<ul style="list-style-type: none"> • Connect TV and DVD+VCR with audio/video cables. If your TV and DVD+VCR are connected with an RF coaxial cable, you will only hear stereo sound if the DVD+VCR is turned off.

:: Technical Specifications

Inputs

AUDIO 2 Stereo audio inputs, RCA Connector, -8dbm, 47K Ω , front and rear

VIDEO 2 Composite video inputs, RCA Connector, 75 Ω , 1Vp-p

RF Antenna or CATV Input, F-Connector, 75 Ω

Outputs

AUDIO 1 Stereo audio output, RCA Connector, -8dbm, 1.5k Ω

AUDIO (DVD only) Digital audio output (coaxial), 1 stereo audio output

VIDEO 1 Composite video output, RCA Connector, 75 Ω , 1Vp-p

VIDEO (DVD ONLY) 1 S-Video output, S-Connector, 75 Ω , Y = 1.0Vp-p, C = 0.286Vp-p

1 Component video output, 75 Ω , Y = 1.0Vp-p, Pb = 0.7Vp-p, Pr = 0.7Vp-p

VCR Specifications

RF Channel 3 or 4

VIDEO SYSTEM 1/2-inch VHS system, 4 rotary head helical scanning; FM azimuth luminance; chrominance: converted sub system phase shift

AUDIO TRACK Normal: 1 track; Hi-Fi: 2 track

PLAY/RECORD TIME T-180 tape: SP 3 hours, SLP 9 hours

FF/REW TIME T-120 tape: <2 minutes

HEADS Video: DA 4 rotary

Audio: 2 rotary heads (Hi-Fi); 1 stationary head (Linear)

Control: 1 stationary head

Erase: 1 full track, 1 audio track

WOW & FLUTTER Less than 0.005% (Hi-Fi)

FREQ. RESPONSE 20-20,000 Hz (Hi-Fi)

DVD Specifications

DISC COMPATIBILITY CD, DVD-Video, CD-Digital Audio (5" and 3.5"),

CD-Video, MP3 files on CD-R and CD-RW

FREQ. RESPONSE 96/48 kHz Sampling: 4 Hz-22kHz

S/N RATIO 110 dB

DYNAMIC RANGE 96 dB

THD 0.003%

System Specifications

POWER REQUIREMENT 120V AC, 60 Hz, 27 watts

ENVIRONMENT 41-104 F (5-40 C); 10%-75% humidity

UNIT WEIGHT 9.5 lbs.

UNIT DIMENSIONS 17 in. x 13 in. x 4 in.

:: Warranty

Who Provides the Limited Warranty

During the warranty period, the Go-Video Warranty Administrator will honor DVD+VCR service for 90 days labor, 1 year parts from the original date of consumer purchase. See below for Commercial, Industrial or Educational use coverage. The DVD+VCR remote control is warranted for 90 days from the date of purchase.

Who is Protected

This warranty protects the original consumer owner of this Go-Video product.

What is Covered and How Long

This warranty covers internal operating parts and service/labor to repair or replace covered parts in this Go-Video product for 90 days labor, 1 year parts, from the date of purchase, defined as follows: (1) Original Consumer Retail Purchase; (2) First Rental Purchase Agreement; or (3) First Lease Purchase Agreement (the Warranty Period). Labor and replacement parts supplied during the Warranty Period are covered only for the remaining portion of the original Warranty Period. The Go-Video Warranty Administrator

shall have no liability for service under this warranty if non-OEM (Original Equipment Manufacturer) replacement parts are used in the repair of your Go-Video product.

What the Owner Must Do If Service is Required

If service under this warranty is required, contact the Go-Video Warranty Administrator at (480) 922-0896 to determine the nearest authorized Go-Video service center.

What are the Exceptions

This warranty does not cover: (1) Normal maintenance service, such as video head cleaning. (2) Damage from misuse, abuse neglect or accident, natural disasters or Acts of God. (3) Cabinetry, decorative parts, A/C adapters, knobs or buttons. (4) The foreign country use of this product. (5) Go-Video product which has been electronically or mechanically modified in any way or incorporated into other products. (6) Installation and setup service adjustments. (7) Owner instruction. Your Owner's Guide provides information regarding operating instructions and user controls. For additional information, contact your authorized Go-Video dealer.

- Go-Video is not responsible for any shipping, handling or insurance charges.
- This Exclusive Limited Warranty excludes all incidental and consequential damages. Some states do not allow the exclusion of incidental and consequential damages, so the above exclusion may not apply to you.
- ALL IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY PERIOD. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.
- This Exclusive Limited Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Go-Video Warranty Administrator

SONICblue Corp.

7835 East McClain Drive

Scottsdale, Arizona

85260-1732

(480) 922-0896

customerservice@sonicblue.com

:: Safety

Important Safety Instructions

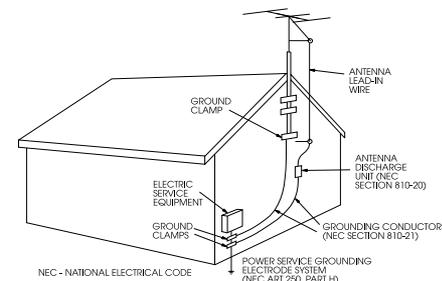
- 1 Read Instructions** All the safety and operating instructions should be read before the product is operated.
- 2 Retain Instructions** The safety and operating instructions should be retained for future reference.
- 3 Heed Warnings** All warnings on the product and in the operating instructions should be adhered to.
- 4 Follow Instructions** All operating and use instructions should be followed.
- 5 Cleaning** Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 6 Attachments** Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- 7 Water and Moisture** Do not use this product near water – for example, near a bathtub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
- 8 Accessories** Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.
- 9 Ventilation** Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- 10 Power Sources** This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
- 11 Grounding or Polarization** This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- 12 Power-Cord Protection** Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.



PORTABLE CART WARNING
(Symbol provided by RETAC)

13 Protective Attachment Plug The product is equipped with an attachment plug having overload protection. This is a safety feature. See Instruction Manual for replacement or resetting of protective device. If replacement of the plug is required, be sure the service technician has used a replacement plug specified by the manufacturer that has the same overload protection as the original plug.

14 Outdoor Antenna Grounding If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See figure 131.1.



15 Lightning For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power lines surges.

16 Power Lines An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

17 Overloading Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

18 Object and Liquid Entry Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

19 Servicing Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

20 Damage Requiring Service Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord or plug is damaged,
- If liquid has been spilled, or objects have fallen into the product,
- If the product has been exposed to rain or water,
- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,
- If the product has been dropped or damaged in any way, and
- When the product exhibits a distinct change in performance – this indicates a need for service.

- 21 Replacement Parts** When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 22 Safety Check** Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- 23 Wall or Ceiling Mounting** The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
- 24 Heat** The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

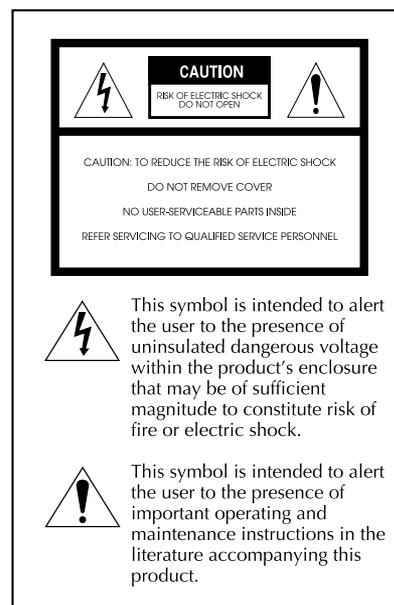
Safety/Regulatory Information

Caution To prevent fire, shock hazard, or annoying interference, use only the recommended accessories. To prevent electric shock, do not use this (polarized) plug with an extension cord, receptacle, or other outlet unless the blades can be fully inserted to prevent blade exposure. To reduce the risk of electric shock, do not remove the unit cover or back. There are no serviceable parts inside. Refer servicing to qualified personnel only.

WARNING: TO AVOID HAZARDOUS EXPOSURE TO INVISIBLE LASER RADIATION, DO NOT OPEN OR REMOVE/DEFEAT LASER TRANSPORT PROTECTIVE HOUSING.

Cuidado Para prevenir incendio, riesgo de choque, o interferencia enfadosa, use solamente los accesorios recomendados. Para prevenir electrochoque, no use este enchufe (polarizado) con un cordón de extensión, toma de corriente, o cualquier otra toma a menos que los dientes puedan ser completamente insertados para prevenir exposición de los dientes. Para reducir el riesgo de descarga eléctrica, no remueva la cubierta o la parte posterior del DVD+VCR. Dentro del DVD+VCR no hay partes que requieren servicio. Diríjase solamente a personal calificado cuando requiera servicio.

Attention Pour éviter les incendis, risque de chocs, ou interférences fâcheuses, employer seulement les accessoires recommandés. Pour éviter les chocs électriques, ne pas employer cette prise (polarisée) avec une rallonge, une prise de courant ou une autre sortie de courant à moins que les lames peuvent être insérées à fond pour l'exposition des



lames. Pour réduire les risques de chocs électriques, ne pas retirer le couvercle ou l'arrière du module. Il n'y a pas de pièce utilisable à l'intérieur. Ne faire effectuer l'entretien que par un personnel qualifié.

User/Installer Caution Your authority to operate this FCC certified equipment could be voided if you make changes or modifications not expressly approved by the manufacturer, who is responsible for compliance with Part 15 FCC rules.

Note to CATV System Installer This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electronic Code that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Copyright Notice Federal law provides severe civil and criminal penalties for the unauthorized reproduction, distribution, or exhibition of copyrighted motion pictures and videocassettes. (Title 17, United States Code, Sections 501 and 506).

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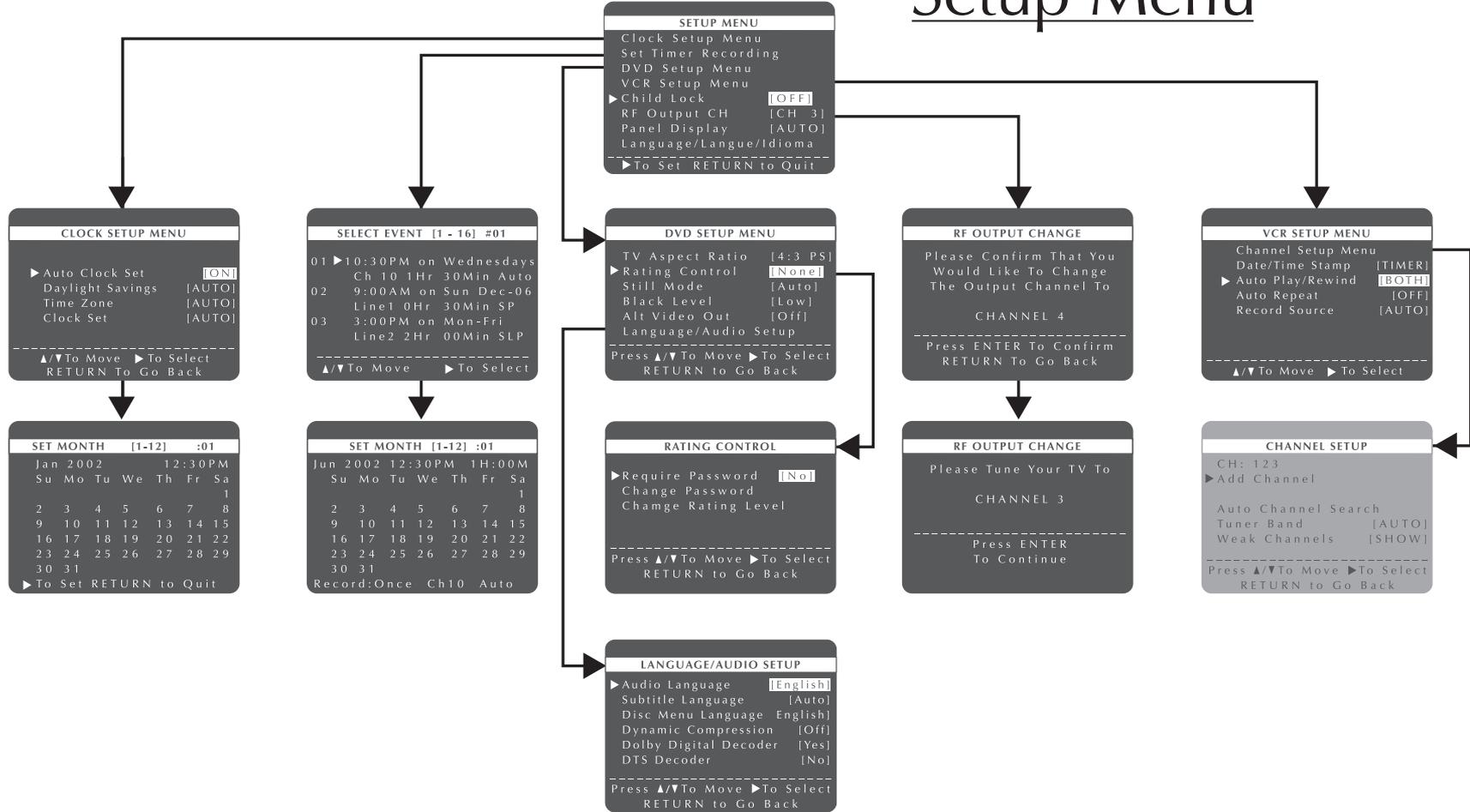
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