DDV9150

User's Guide

Go-Video/Sensory Science
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www.sensoryscience.com
www.govideo.com

WARNING:

To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture. Do not open the cabinet; dangerous high voltage is present. Refer servicing to qualified personnel only. This video cassette recorder should only be used with 120V, 60Hz (standard U.S. household) current.

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

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.

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.

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.

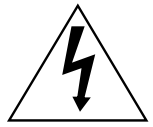
Para reducir el riesgo de descarga eléctrica, no remueva la cubierta o la parte posterior del VCR. Dentro del VCR no hay partes que requieren servicio. Diríjase solamente a personal calificado cuando requiera servicio.

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.



This symbol is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute risk of fire or electric shock.

This symbol is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying this product.

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Important Safety Instructions

PORTABLE CART WARNING

(Symbol provided by RETAC)

1. **READ INSTRUCTIONS -** All the safety and operating instructions should be read before the unit is operated.

2. **RETAIN INSTRUCTIONS -** The safety and operating instructions should be retained for future reference.

3. **HEED WARNINGS -** All warnings on the unit and in the operating instructions should be adhered to.

4. **FOLLOW INSTRUCTIONS -** All operating and maintenance instructions should be followed.

5. **CLEANING -** Unplug this video unit from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a dry cloth for dusting cabinet.

6. **ATTACHMENTS -** Do not use attachments not recommended by the video product manufacturer, as they may be hazardous.

7. **WATER & MOISTURE -** Do not use this video unit near water—for example, near a bathtub, wash bowl, kitchen sink, laundry tub, in a wet basement, near a swimming pool or the like.

8. **ACCESSORIES -** Do not place this video unit on an unstable cart, stand, tripod, bracket or table. The video unit may fall, causing serious injury to a child or adult, and serious damage to the unit. Use only with a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the video unit. Any mounting of the unit should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer.

8a. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

9. **VENTILATION -** Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the video unit and to protect it from overheating. These openings must not be blocked or covered. Never place your VCR on a bed, sofa, rug or other similar surface, on or near a radiator or heat register. This video unit 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 video unit 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 appliance dealer or local power company. For video units intended to be operated from battery power, or other sources, refer to the operating instructions.

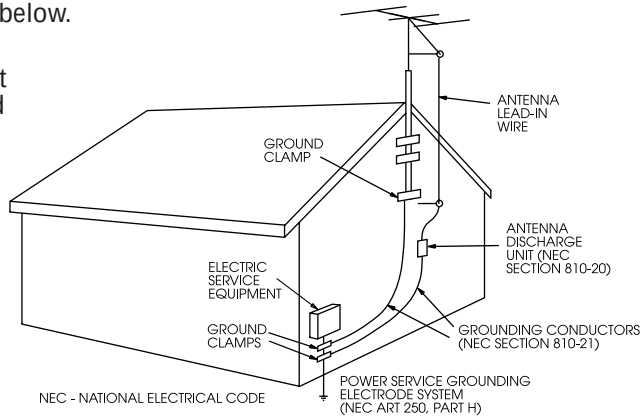
11. **GROUNDING OR POLARIZATION -** This video unit may be equipped with either a polarized 2-wire AC line plug (a plug having one blade wider than the other) or a 3-wire grounding plug having a third (grounding) pin.

    The 2-wire polarized 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 still fails 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 of plugs, convenience receptacles, and the point where they exit from the unit.

13. **OUTDOOR ANTENNA GROUNDING -** If an outside antenna or cable system is connected to the video unit, be sure the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect 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 below.

14. **LIGHTNING -** For added protection of this video unit 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 video unit due to lightning and power line surges.



15. **POWER LINES -** An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, 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.

16. **OVERLOADING -** Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.

17. **OBJECTS AND LIQUIDS -** Never push objects of any kind into this video unit through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquids of any kind onto the unit. Should spillage occur, unplug unit and have it checked by a technician before use.

18. **SERVICING -** Do not attempt to service this video unit yourself as opening or removing covers may expose you to a dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

19. **DAMAGE REQUIRING SERVICE -** Unplug this video unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:

    a. When the power supply cord or plug is damaged.

    b. If any liquid has been spilled onto or objects have fallen into the video unit.

    c. If the video unit has been exposed to rain or water.

    d. If the video unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video unit to its normal operation.

    e. If the video unit has been dropped or the cabinet has been damaged.

    f. When the video unit exhibits a distinct change in performance—this indicates a need for service.

20. **REPLACEMENT PARTS -** When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or those having the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

21. **SAFETY CHECK -** Upon completion of any service or repairs to this video unit ask the service technician to perform safety checks to determine that the video unit is in safe operating order.

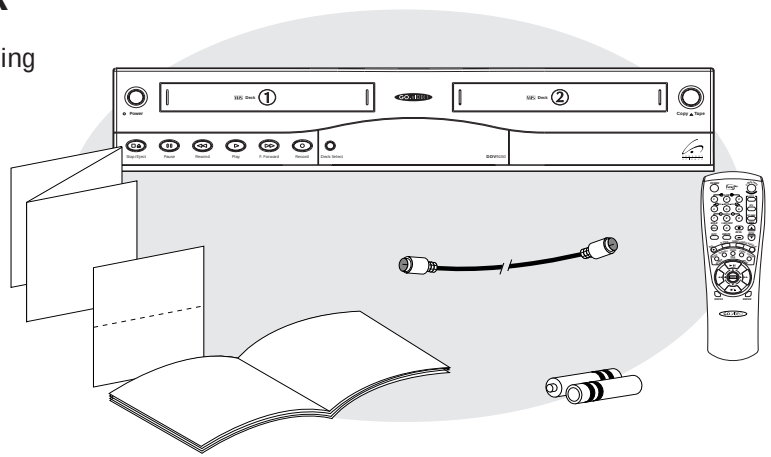
22. **HEAT -** This video unit should be situated away from heat sources such as radiators, stoves, or other products (including amplifiers) that produce heat.

First Things First

1 Unpack your Dual-Deck VCR

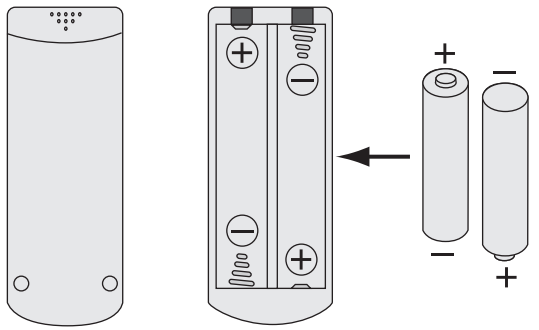
As you unpack, please check that the following items are included in your Dual-Deck VCR packing case:

- Dual-Deck VCR
- User's Guide
- Remote Control
- 2 "AA" Batteries
- 1 RF (Radio Frequency) Antenna Cable
- Read Me First/Quick Reference Guide
- Warranty/Registration Card



2 Insert Remote Control Batteries

Remove the battery cover by pushing down and sliding the cover in the direction of the arrow. Insert 2 "AA" batteries as shown, paying attention to the correct polarities (+/–). Replace the cover.



Connect Antenna/Basic Cable

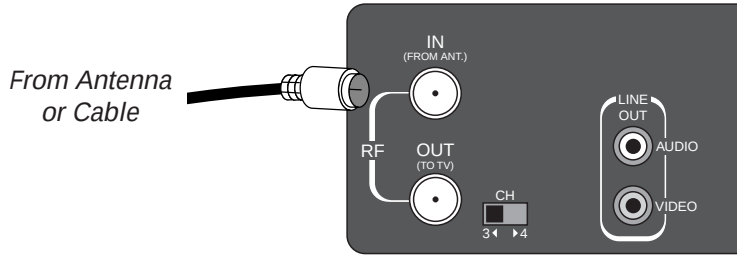
Follow these steps only if you are using an indoor/outdoor antenna or basic cable. If you have a:

- *Cable Box*
- *Stereo Receiver*
- *TV Monitor*
- *Third VCR*
- *Laserdisc Player*
- *DVD Player*
- *Camcorder*
- *Satellite Receiver*
- *Video Game*

...or other advanced connection, please refer to Chapter 11.

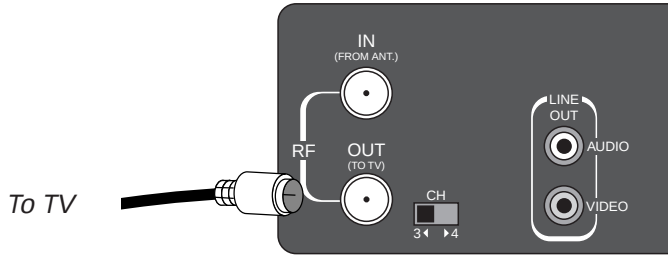
1 Connect Antenna to VCR

Connect the RF antenna cable from your indoor/outdoor antenna or cable wall outlet to the IN (FROM ANT.) jack on the back panel of the VCR.



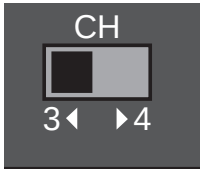
2 Connect VCR to TV

Connect the supplied RF cable from the OUT (TO TV) jack on the back panel of the VCR to your television's ANTENNA IN jack.



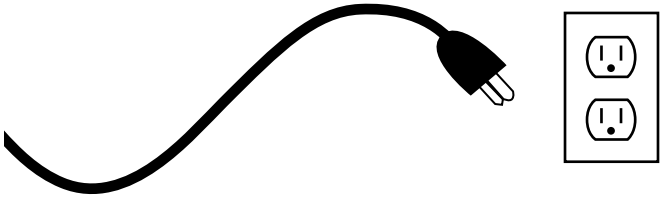
3 Set VCR Output Channel

Set the channel switch on the back panel of the VCR to 3 or 4, whichever is not an active channel in your area.



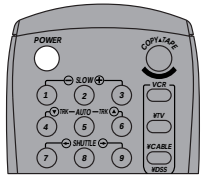
4 Plug In VCR

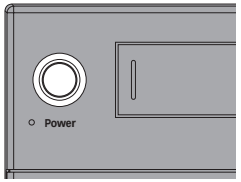
Connect the VCR power cord to a standard 120V/60Hz wall outlet.



5 Turn On VCR

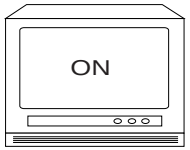
Press the Power button on the remote control or on the VCR's front panel.





6 Turn On TV

Press the power button on the TV.

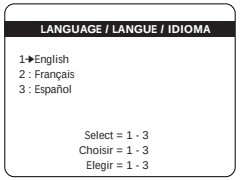


7 Tune TV to Channel 3 or 4

Be sure to use the same channel you used in Step 3.

8 Basic Connection is Complete!

The Language menu will appear on your television screen. Please proceed with Auto Setup in Chapter 2.

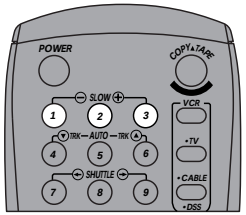


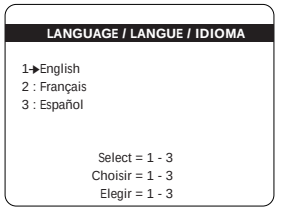
Auto Setup

The first time you hook up and turn on your Dual-Deck VCR, it will run Auto Setup. First, you will be prompted to select the on-screen language, then the Dual-Deck VCR will automatically search for channels and set the VCR's internal clock.

1 Set Language

Press 1, 2, or 3 to select English, French, or Spanish. To change the language at any other time, see page 6.





2 Run Auto Setup

As soon as you set the language, the VCR will automatically perform the following steps:

- **Auto Channel Search** — Automatically detects whether you have an antenna or cable, then searches for all channels in your area. If Auto Setup is unable to search for channels in your area, you may do so at any time; see page 30.
- **Auto Time Set** — Sets the VCR's internal clock. If Auto Setup is unable to find a clock set channel in your area, you can set the clock manually; see page 7.

This procedure may take a few minutes to complete, at which point it will tune the VCR to the lowest channel found.

Performing Auto Setup
Please Wait . . .

En train de réglage auto
Veuillez attendre . . .

Haciendo el ajuste auto.
Favor de esperar . . .

Auto Setup is Complete!

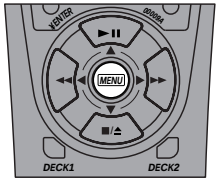
Proceed to Chapter 3 for an overview of the Dual-Deck System.

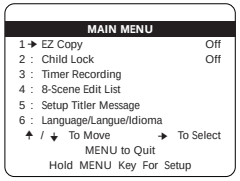
Set Language Manually

If you want to change the on-screen language at any time, follow these steps.

1 Open “Main Menu”

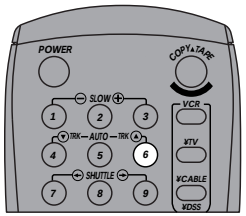
Press the menu button on the remote control.

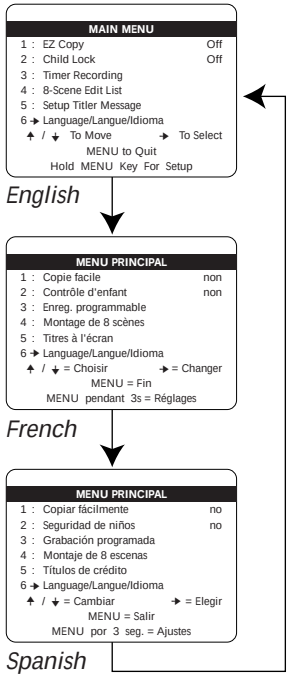




2 Select On-Screen Language

Press 6 repeatedly to cycle among English, French, and Spanish. As you do this, the entire Main Menu will be translated into English, French or Spanish.



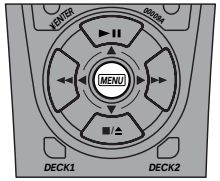


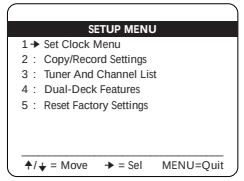
Set Clock Manually

If Auto Clock Set is not available in your area, follow these steps to set the clock manually. If Auto Clock Set has set the time incorrectly, try adjusting Daylight Savings Time (page 9) and Time Zone (page 10) before setting the clock manually.

1 Open “Setup Menu”

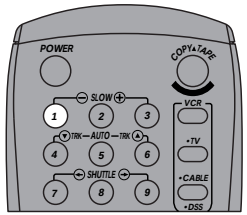
Press and hold the Menu button for 3 seconds.

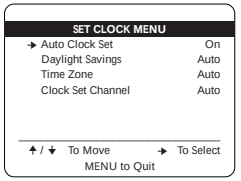




2 Select “Set Clock Menu”

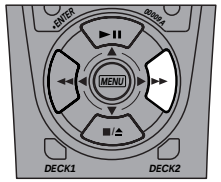
Press 1.

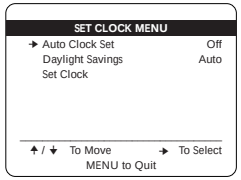




3 Turn Off “Auto Clock Set”

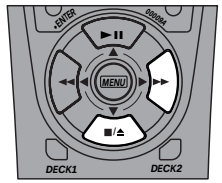
Press the right arrow key once. “Set Clock” will replace “Time Zone” and “Clock Set Channel.”

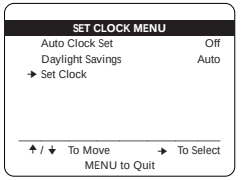




4 Choose “Set Clock”

Press the down arrow key until “Set Clock” is selected, then press the right arrow key to select.





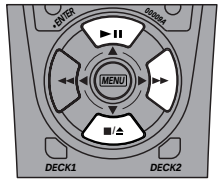
Y2K Compliant

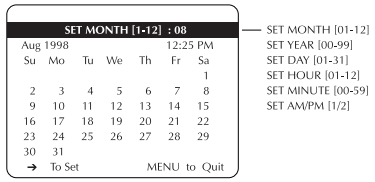
Go-Video Inc. hereby certifies that this Dual-Deck VCR is fully compliant with the calendar year 2000. Note that the year 2000 is a leap year.

5 Set the Time

Use the number keys or the up/down arrow keys to adjust the following items. To skip an item, press the right arrow key:

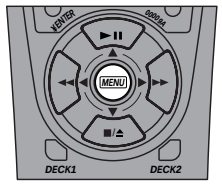
- **Set Month** — Enter the month as a 2-digit number; i.e. August = “08”
- **Set Year** — Enter the year as a 2-digit number; i.e. 1999 = “99”
- **Set Day** — Enter the day as a 2-digit number; i.e. the ninth = “09”
- **Set Hour** — Enter the hour as a 2-digit number; i.e. 12:xx = “12”
- **Set Minute** — Enter the minute as a 2-digit number; i.e. xx:25 = “25”
- **Set AM/PM** — Press “1” for AM, “2” for PM





6 Save Settings

The Clock is set! Press the Menu button at any time to save and quit.

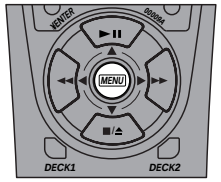


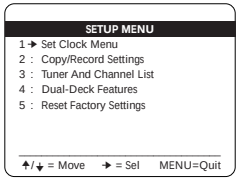
Set Daylight Savings Time

From the Set Clock Menu, you may also choose to manually set Daylight Savings, Time Zone, or Auto Clock Set channel.

1 Open the "Setup Menu"

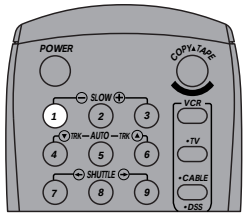
Press and hold the menu button for 3 seconds.

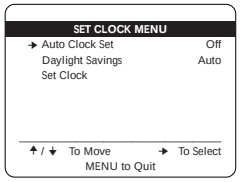




2 Select "Set Clock Menu"

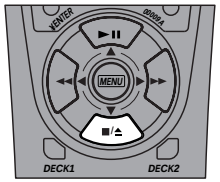
Press 1.

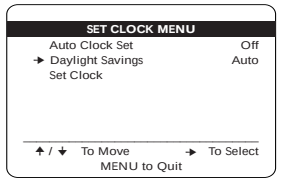




3 Choose "Daylight Savings"

Press the down arrow key until "Daylight Savings" is selected.

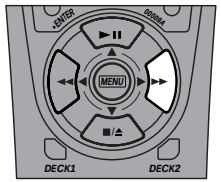


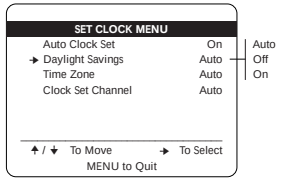


4 Set "Daylight Savings"

Press the right arrow key to select among:

- **Auto** — Uses local channel info to determine Daylight Savings Time status.
- **Off** — Turns off Daylight Savings permanently, i.e. the time never changes.
- **On** — Enables Daylight Savings at 2:00 AM on the first Sunday of April and disables it at 2:00 AM on the last Sunday in October.



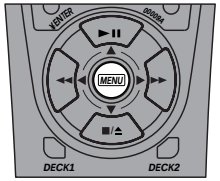


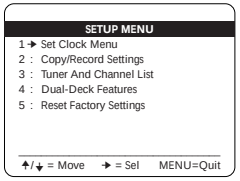
Set Time Zone

You can set your Time Zone manually to one of the six preset choices. Use this feature if Auto Clock Set has set the time incorrectly by detecting a nearby time zone. Note: If you are an Arizona resident, choose Mountain Standard Time and turn Daylight Savings Time off.

1 Open the "Setup Menu"

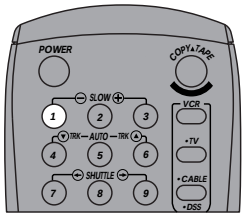
Press and hold the menu button for 3 seconds.

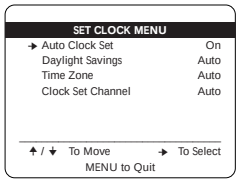




2 Select "Set Clock Menu"

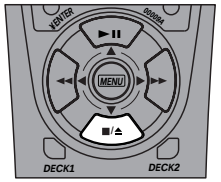
Press 1 or press the Set Timer button.

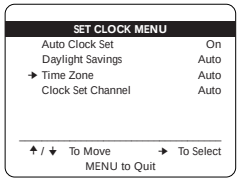




3 Select "Time Zone"

Press the down arrow key until "Time Zone" is selected.

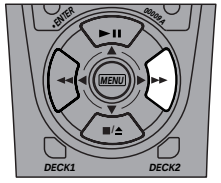


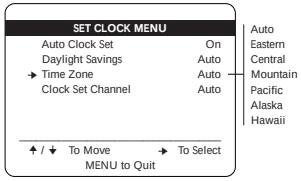


4 Set "Time Zone"

Press the right arrow key to select among:

- **Auto** — Sets Time Zone automatically
- **Eastern** — Eastern Standard Time
- **Central** — Central Standard Time
- **Mountain** — Mountain Standard Time
- **Pacific** — Pacific Standard Time
- **Alaska** — Alaska Standard Time
- **Hawaii** — Hawaii Standard Time



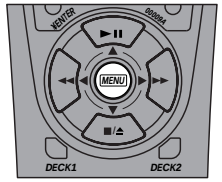


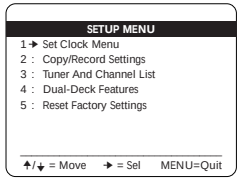
Set Auto Clock Set Channel

If you know a station in your local area that broadcasts time information, you can set it manually. For example, your local PBS station usually will transmit the time and date. Use this feature only if Auto Clock Set has set the time incorrectly.

1 Open the "Setup Menu"

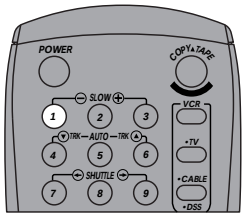
Press and hold the menu button for 3 seconds.

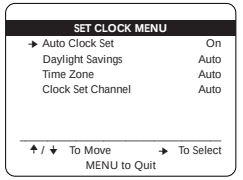




2 Select "Set Clock Menu"

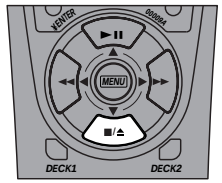
Press 1.

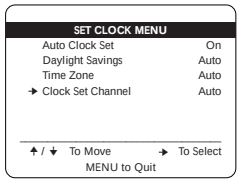




3 Select "Clock Set Channel"

Press the down arrow key until "Clock Set Channel" is selected.

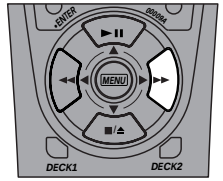


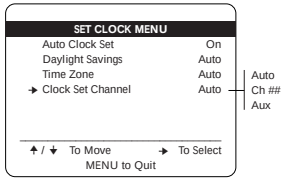


4 Set "Clock Set Channel"

Press the right arrow key repeatedly to select among:

- **Auto** — Automatically searches for channels broadcasting the time via XDS (Extended Data Services)
- **Ch ##** — Allow you to manually set a channel to receive XDS information
- **Aux** — allows the clock to be set from another AV (Audio/Video) device attached to your VCR's line inputs





Remote Control Overview

•**Power** — Turns the VCR on and off. Note: Power will come on automatically when you insert a videotape.

Slow +/– — In Play mode, plays the tape at varying slow motion speeds.

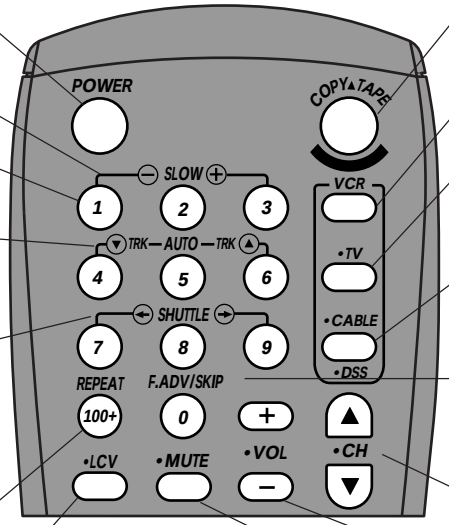
•**0-9** — Selects channels directly. In the Menu system, selects menu items.

Auto/ ▾ Trk ▴ — In Play mode, allows you to manually adjust tracking. Press Auto to resume Auto Tracking.

← Shuttle → (see page 43) — In Play mode, Shuttle → gradually increases the cue speed from double-speed playback to picture search to jet search. Shuttle ← gradually slows down the tape, pauses, then goes into reverse picture search and reverse jet search.

•**100+/Repeat** — Selects cable channels 100 and up; in Play mode, replays the last 30 seconds of tape.

•**LCV (Last Channel Viewed)** — Displays the last channel you were watching.



Top Section

Copy Tape — Copies the tape in Deck 1 to the tape in Deck 2.

VCR — Sets the remote to operate your VCR.

TV — Sets the remote control to operate your television. To program the remote, see Appendix A.

Cable/DSS — Sets the remote to operate your Cable Box or Digital Satellite System (DSS). To program the remote, see Appendix A.

F.Adv/Skip — In Pause mode, advances the tape one frame for every press. In Play mode, jumps ahead one minute for every press (up to 5). In Copy mode, skip edits one minute for every press (up to 5).

•**Ch +/–** — Changes channels up and down.

•**Vol +/–** — Turns the sound up and down.

•**Mute** — Turns audio on and off.

• These keys can also be used to operate your TV or Cable Box/ DSS receiver. See Appendix A to program your remote control.

TV View — Switches the TV display among the Tuner, Deck 1, Deck 2, and Aux. This allows you to rotate through all your input sources—TV shows, videos, DVD players, etc.—at the touch of a button.

Scene/Title — Marks the beginning and ending edit points of scenes in the 8-Scene Editor. Also press to record On-Screen Titles (see page 68).

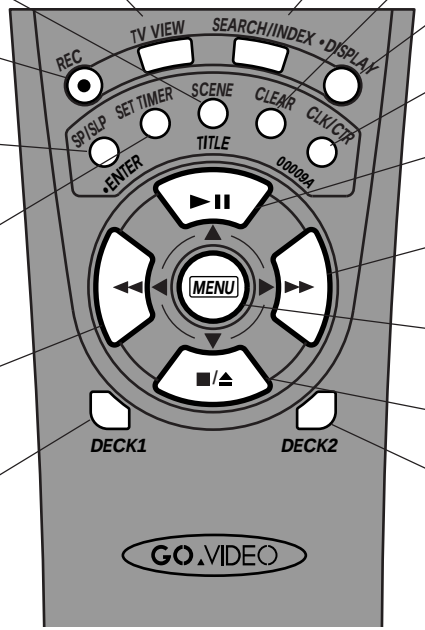
Rec — Starts recording in the active deck. Press twice to activate One-Touch Recording.

SP/SLP/•Enter — Sets the record speed to SP (Standard Play) or SLP (Super Long Play). SLP is three times longer than SP. When in Cable Box mode, performs the same function as the Enter key on your Cable Box remote.

Set Timer — Opens the Timer Recording menu.

Rew — When the tape is stopped, rewinds the tape. When the tape is playing, visually searches the tape in reverse (Review).

Deck1 — Sets Deck 1 as the active deck. All deck control buttons (Play, Rewind, etc.) will only affect Deck 1.



Deck Control Section

Search/Index — From Stop, Play, F.Forward, or Rewind, opens the Search/Index Menu. While recording, places an index mark on the tape.

Clear — Resets the Tape Counter to 0:00:00. In the menu system, it clears entries.

Display — Turns the On-Screen Display (tuner, audio, and deck status) on and off.

CLK/CTR — Switches the Front Panel Display among clock, tape counter, and time remaining.

Play/Still — Plays the tape. In Play or Record mode, pauses the tape in the source deck.

F.F. — When the tape is stopped, fast-forwards the tape. When the tape is playing, Visually searches the tape forward (Cue).

Menu — Opens the Main Menu. Press and hold for three seconds to open the Setup Menu

Stop/Eject — Stops the tape in the active deck. Press twice to eject the tape.

Deck2 — Sets Deck 2 as the active deck. All deck control buttons (Play, Rewind, etc.) will only affect Deck 2.

Front Panel Overview

Power — Turns the VCR on and off. Note: Power will come on automatically when you insert a videotape.

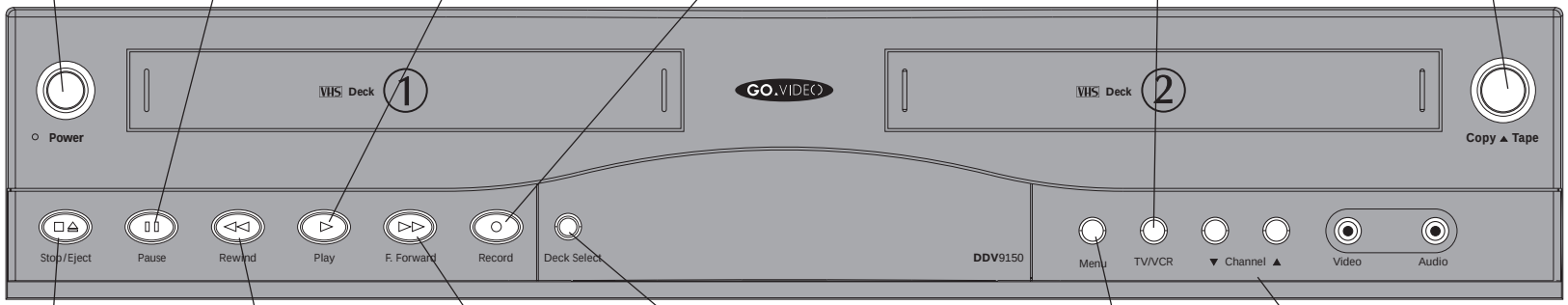
Pause — Pauses the tape in the active deck.

Play — Plays the tape in the active deck. Press twice for Still. In menus, moves selection arrow up.

Record — Starts recording in the active deck. Press repeatedly to activate One-Touch Recording.

TV/VCR — Switches between the TV's tuner and the VCR's tuner.

Copy Tape — Copies the tape in Deck 1 to Deck 2.



Stop/Eject — Stops the tape in the active deck. Press twice to eject the tape. In menus, moves selection arrow down.

Rewind — In Stop mode, rewinds the tape. In Play mode, visually searches the tape in reverse (Review). In menus, backs up one menu.

F.Forward — In Stop mode, fast-forwards the tape. In Play mode, visually searches the tape forward (Cue). In menus, selects and cycles through menu items.

Deck Select — Switches control between Deck 1 and Deck 2.

Menu — Opens the Main Menu. Press and hold for 3 seconds to open the Setup Menu.

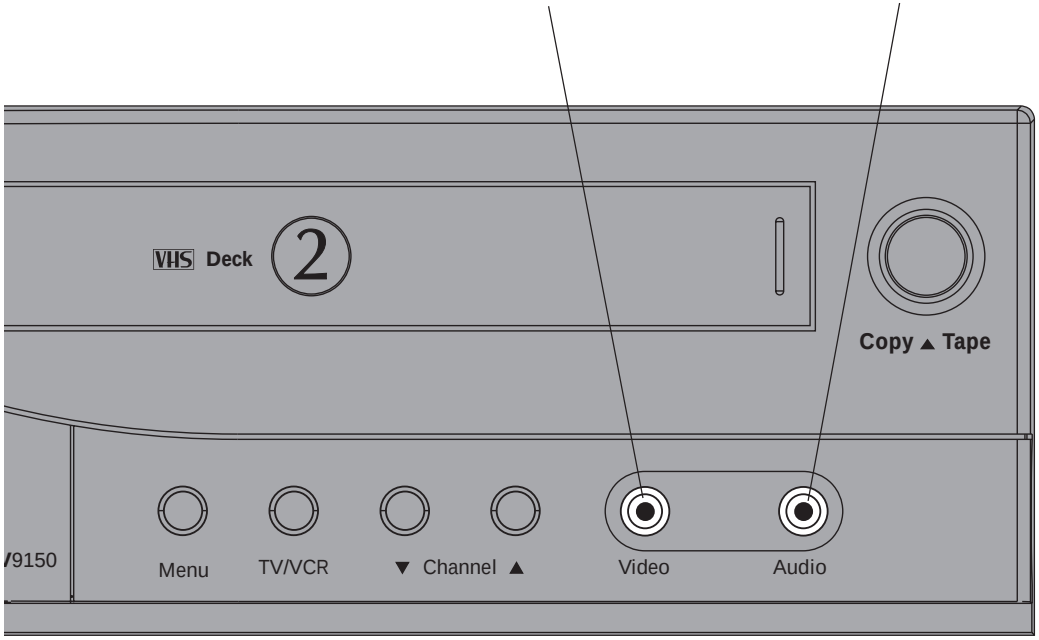
Channel Up/Down — Changes channels up and down.

Front Panel Inputs

Use the Front Panel Inputs for easy connection to a camcorder or video game. The front panel inputs are referred to as Aux throughout the menu system.

Video Line Input — Use to connect the video signal from your external device with an RCA cable.

Aux Audio Input — Use to connect the monaural (mono) audio signal from your external device with an RCA cable.



Front Panel Display

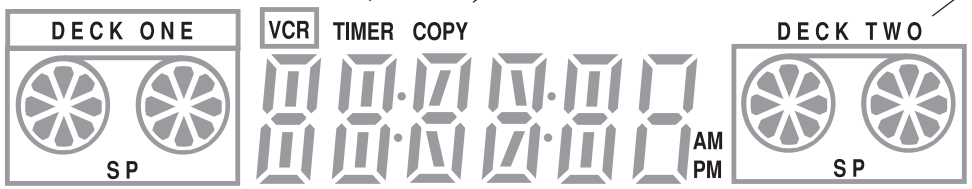
VCR — Lights to show you that the Dual-Deck is in VCR mode; i.e. what you see on screen is coming from the VCR and NOT the television, as set by the TV/VCR button on the front panel.

Timer — Lights to show you that a Timer Recording is stored in memory. Blinks if there is a Timer Recording error.

Copy — Lights to show you that a tape is being copied. Blinks if the Copy is Paused.

Deck One — Lights to show you that Deck One is active.

Deck Two — Lights to show you that Deck 2 is active.



Deck One Tape Status — Graphically shows you the status of the tape in Deck 1; i.e. Stop, Play, Rewind, etc.

00:00:00 — Shows you the current time, the tape counter, or the time remaining until the end of the tape in the active deck, as set by the CLK/CTR button. Also briefly displays the active deck function (Stop, Play, Rewind, etc.).

Tape Speed — (SP, SLP) Shows you the current Playback or Record Speed for each deck.

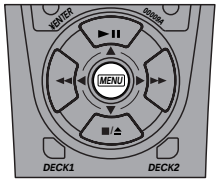
Deck Two Tape Status — Graphically shows you the status of the tape in Deck 2; i.e. Stop, Play, Rewind, etc.

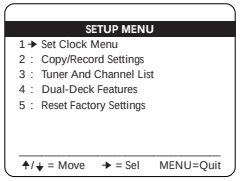
Front Panel Display Settings

You can set the Front Panel Display to dim at night so it doesn't keep you awake.

1 Open "Setup Menu"

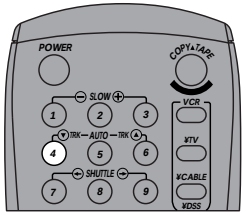
Press and hold the menu button for 3 seconds.

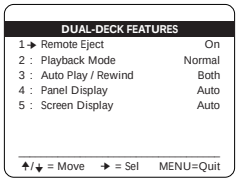




2 Select "Dual-Deck Features"

Press 4.

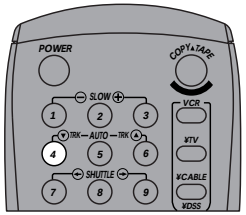


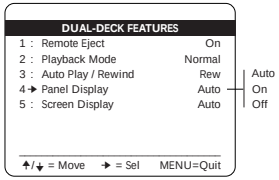


3 Set "Panel Display"

Press 4 repeatedly to turn Panel Display to:

- **Auto** — Dims automatically between 10:00 PM and 6:00 AM
- **On** — Makes Front Panel Display bright at all times.
- **Off** — Disables Front Panel Display



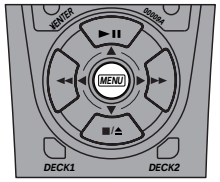


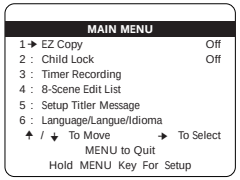
Child Lock

To prevent children from using the VCR when you are away, you can activate the Child Lock. This feature disables Auto Power On, Auto Play, and all front panel buttons. You will need the remote control to operate the VCR.

1 Open “Main Menu”

Press the Menu button on the remote control.

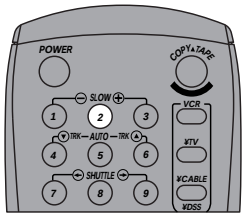


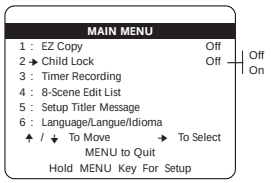


2 Set “Child Lock”

Press 2 repeatedly to turn Child Lock on or off. With Child Lock set to “On”:

- The VCR will not power on automatically when a tape is inserted.
- Tapes will not play automatically when you insert them, regardless of the Auto Play setting (see page 46).
- All front panel buttons are disabled.
- You will still be able to use the remote control to operate all VCR functions.



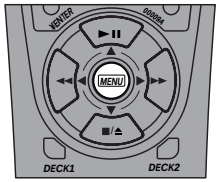


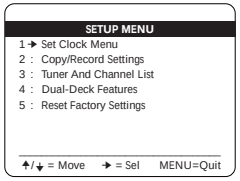
Remote Eject

Remote Eject allows you to eject tapes by pressing Stop on the remote control.

1 Open “Setup Menu”

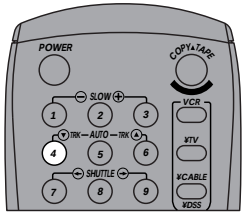
Press and hold the menu button for 3 seconds.

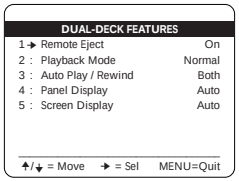




2 Select “Dual-Deck Features”

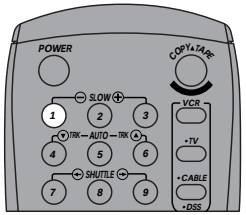
Press 4.

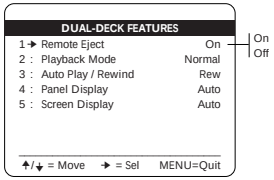




3 Set “Remote Eject”

Press 1 repeatedly to turn Remote Eject on or off. The default setting is “On.”

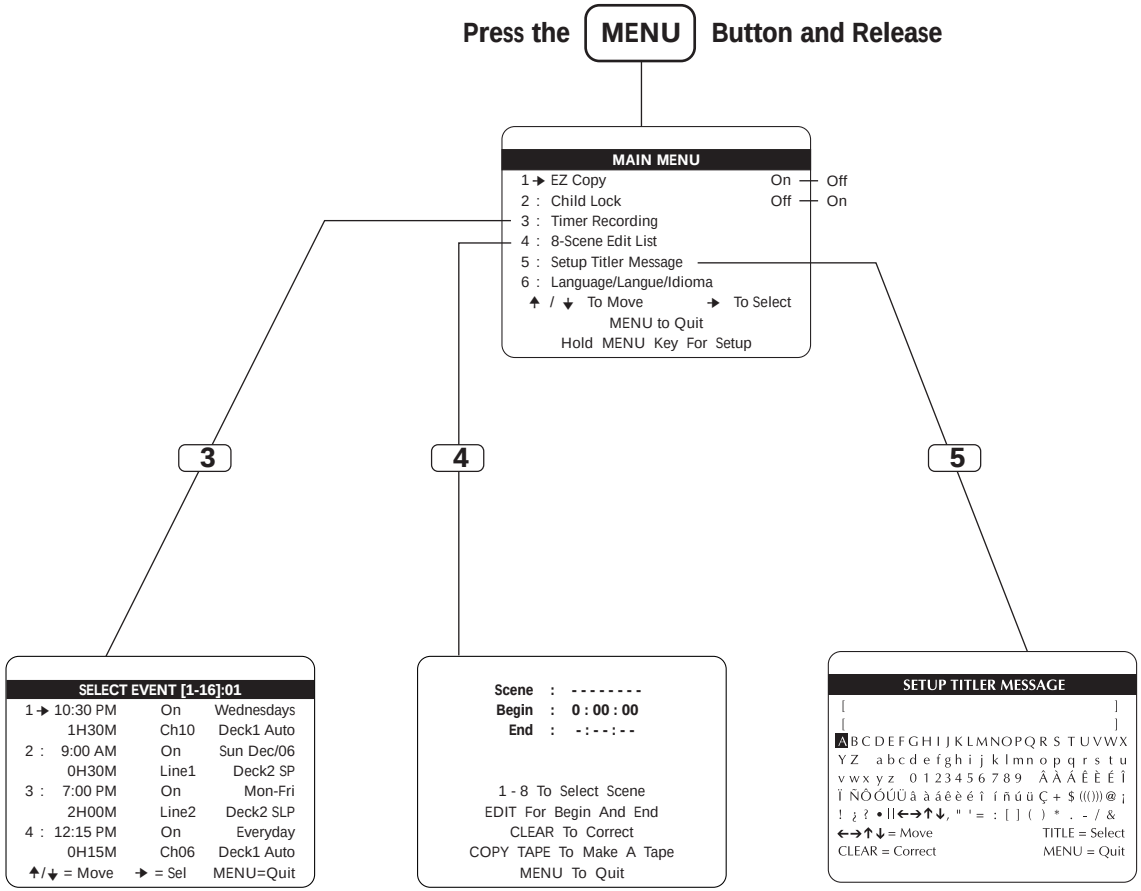




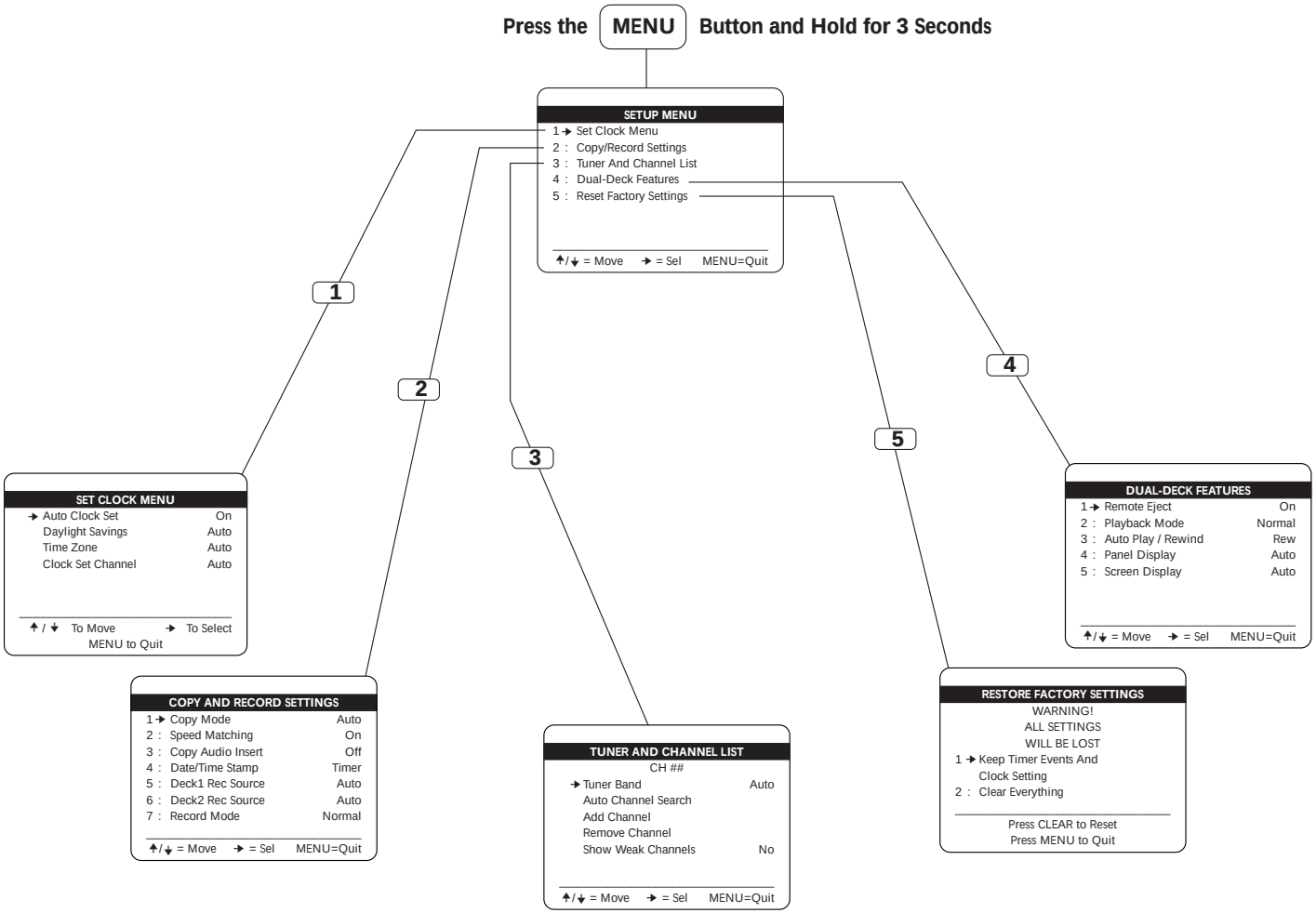
Main Menu Tree

The On-Screen Menu System is the control center of your Dual-Deck VCR. It is divided into two sections:

- **Main Menu** — for everyday functions, like EZ Copy, Child Lock, and Timer Recording.
- **Setup Menu** — for seldom used "set and forget" options, like Set Clock, Copy/Record Settings and Tuner and Channel List (see page 22).



Setup Menu Tree

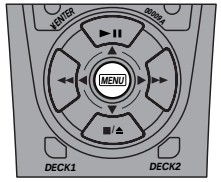


Menu Navigation - Remote Control

Use the following buttons to enter and navigate within the menu system.

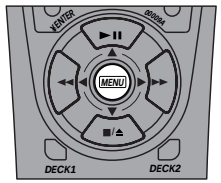
Menu

Press and release to enter the Main Menu and adjust everyday functions. When you are in the menu system, press to save settings and exit.



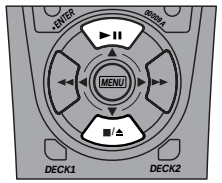
Menu (3 seconds)

Press and hold for 3 seconds to enter the Setup Menu and adjust “set and forget” functions.



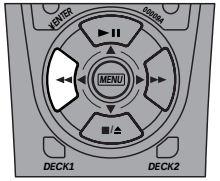
Up/Down Arrows

Moves up or down the list of menu items.



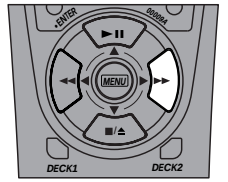
Left Arrow

When you are in the menu system, press to back up to the previous menu.



Right Arrow

Selects and cycles through menu items.

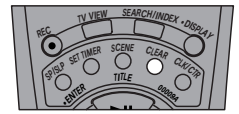


0–9

Direct method of selecting and changing menu items (used in the examples throughout this manual).

Clear

Cancels certain selections in the menus.

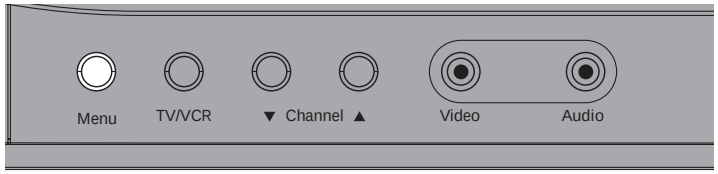


Menu Navigation - Front Panel

The following front panel buttons can also be used to enter and navigate within the menu system.

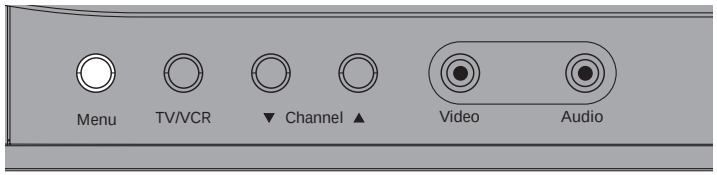
Menu

Press and release to enter the Main Menu and adjust everyday functions. When you are in the menu system, press to save settings and exit.



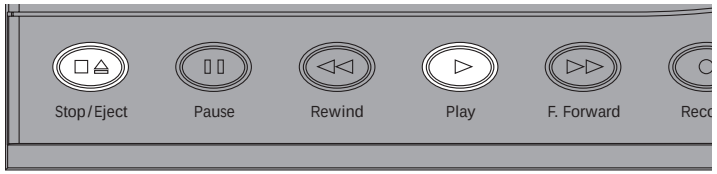
Menu (3 seconds)

Press and hold for 3 seconds to enter the Setup Menu and adjust “set and forget” functions.



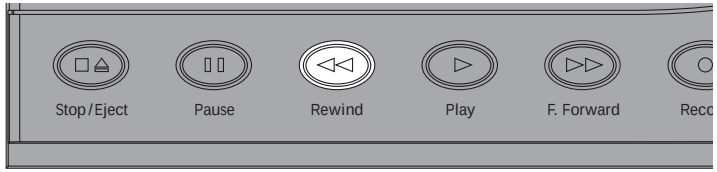
Stop/Eject & Play

Press Stop/Eject to move down and Play to move up the list of menu items.



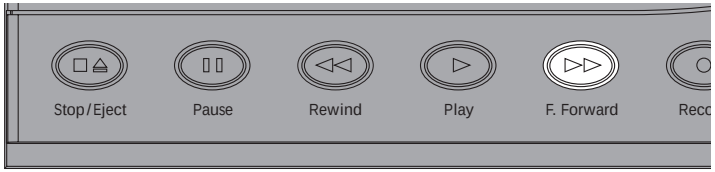
Rewind

When you are in the menu system, press to back up to the previous menu.



F.Forward

Selects and cycles through menu items.

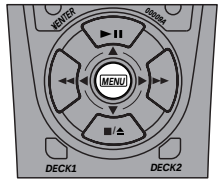


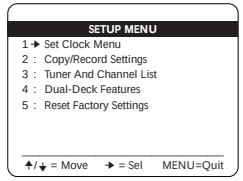
Reset Factory Settings

If you make changes to the Dual-Deck VCR default settings, you can always restore the original factory settings.

1 Open “Setup Menu”

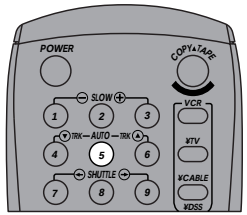
Press and hold the Menu button on the remote control for 3 seconds.

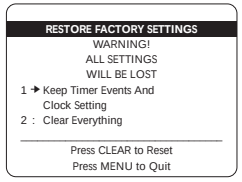




2 Select “Reset Factory Settings”

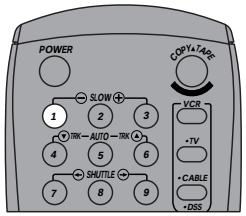
Press 5.

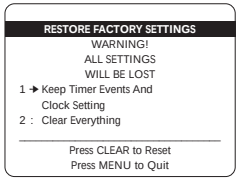




3 Decide What to Reset

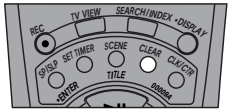
Press 1 if you want to reset everything except the clock and any saved Timer Recordings.
Press 2 if you want to clear all settings.

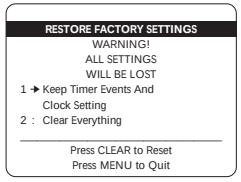




4 Restore Settings

Press the Clear button to confirm your decision and restore factory settings.



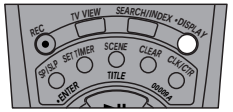


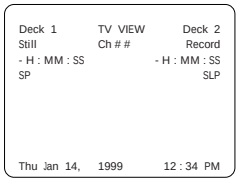
On-Screen Display Overview

The On-Screen Display (OSD) keeps you posted on the status of the Tuner, Decks, and Aux input. It also communicates important Copy, Timer Record, and Error messages.

Bring up On-Screen Display

Press Display. The OSD will also appear whenever you activate a Deck function, i.e. Play a tape, change channels, etc. The OSD will turn off automatically after 5 seconds.

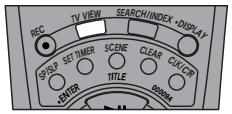




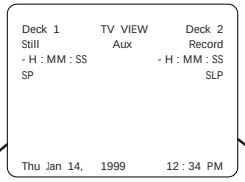
Change View

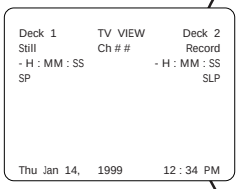
Press TV View to change the OSD among the 4 TV Views:

- Tuner
- Aux
- Deck 1
- Deck 2

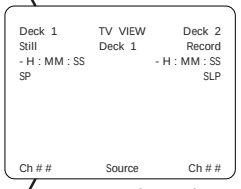


Aux View

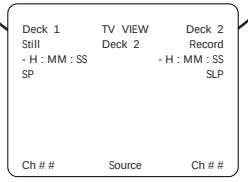




Tuner View

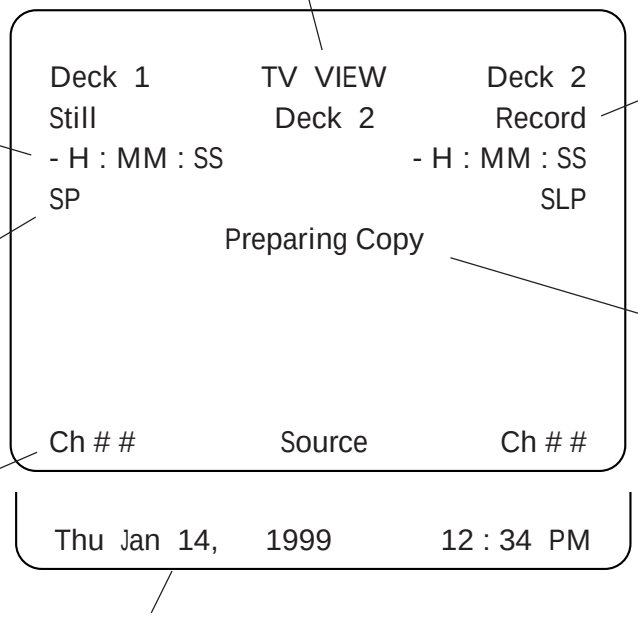


Deck 1 View



Deck 2 View

On-Screen Display Elements



TV View — Shows the source you are currently watching (Tuner, Deck 1, Deck 2, Aux). In Tuner View, shows the Channel Number.

Deck Counter Position— Shows the current tape position or time remaining as set by the Clk/Ctr button.

Deck Status — Shows current tape status in each deck: Stop, Play, Rew, FFwd, Eject, Cue, Review, Slow, Still, Pause, Rec, OTR, Index, ATR, or ERROR.

Deck Play/Record Speed— Shows current playback speed (SP, LP, SLP) or record speed (SP, SLP).

Display Message — Provides feedback on your Dual-Deck, including Copy, Timer Recording, Sequential/Loop Play & Record, and Error Messages.

Deck Record Source— In Deck 1 or Deck 2 View, the record source is displayed at the bottom of the screen.

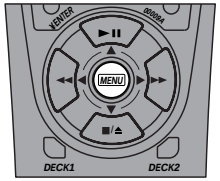
Date and Time— In Tuner View, the Date and Time are displayed at the bottom of the screen.

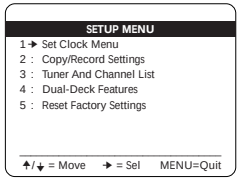
On-Screen Display (OSD) Settings

You can customize the OSD to show only Tuner information, only Deck information, or have it turned off at all times unless you press the Display key.

1 Open "Setup Menu"

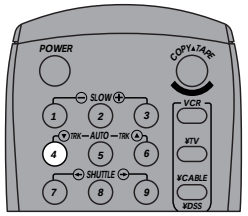
Press and hold the Menu button on the remote control for 3 seconds.

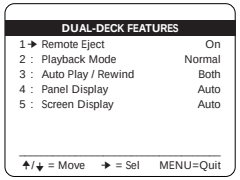




2 Select "Dual-Deck Features"

Press 4.

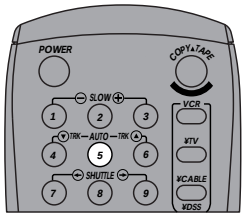


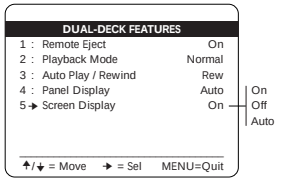


3 Set "Screen Display"

Press 5 repeatedly to turn Screen Display to:

- **On** — Default setting. Displays the complete OSD whenever a Tuner or Deck function is activated (i.e., Play, Stop, Channel +/–, etc.).
- **Off** — Turns the OSD off permanently unless you press the Display button.
- **Auto** — Displays just Tuner information when a Tuner function is activated (i.e., Channel +/–), and just Deck information when a Deck fuction is activated (i.e., Play, Stop).



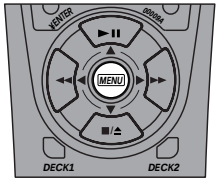


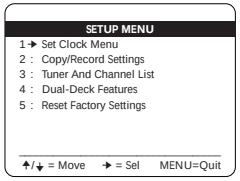
Tuner Band

Broadcast television comes into your home in one of two ways: over the air via antenna, or through a cable via a local CATV (Community Antenna Television) provider or Satellite. The Tuner Band setting allows you to specify which source you are using. Use this setting only if Auto Setup detected the incorrect band, i.e. channels are coming in on the wrong channel numbers.

1 Open "Setup Menu"

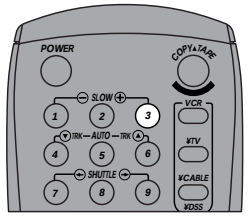
Press and hold the Menu button for 3 seconds.

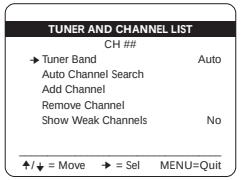




2 Select "Tuner & Channel List"

Press 3.

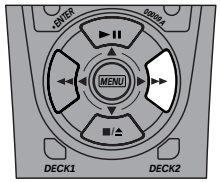


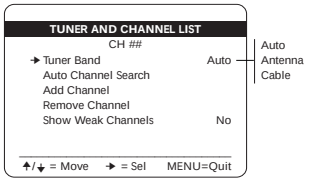


3 Set "Tuner Band "

Press the right arrow repeatedly to switch the Tuner Band among:

- **Auto** — Automatically detects Tuner Band.
- **Antenna** — Indicates that you are using an indoor or outdoor VHF/UHF antenna.
- **Cable** — Indicates that you are using CATV (Community Antenna Television), i.e. cable TV.



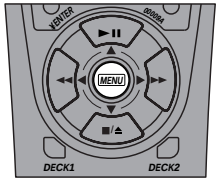


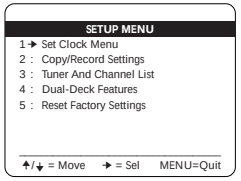
Auto Channel Search

You can perform Auto Channel Search at any time to store only those channels which are active in your area.

1 Open “Setup Menu”

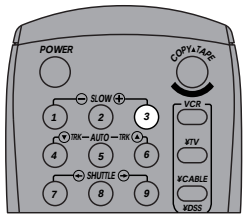
Press and hold the Menu button for 3 seconds.

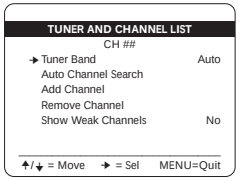




2 Select “Tuner & Channel List”

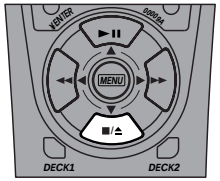
Press 3.

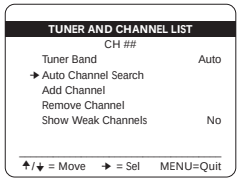




3 Select “Auto Channel Search”

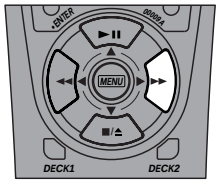
Press the down arrow until Auto Channel Search is selected.

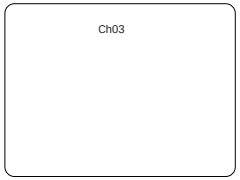




4 Start “Auto Channel Search”

Press the right arrow to begin searching for all available channels in the selected Tuner Band. This procedure may take a few minutes to complete. When Auto Channel Search is finished, it will display the lowest channel found.



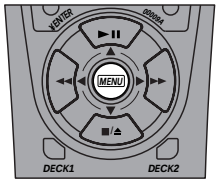


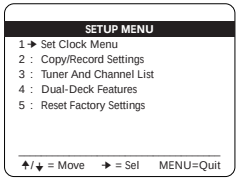
Add Channel

Follow these steps to add a channel that was not detected during Auto Channel Search.

1 Open “Setup Menu”

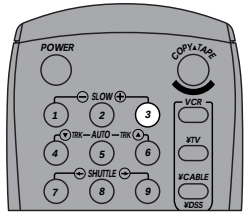
Press and hold the Menu button for 3 seconds.

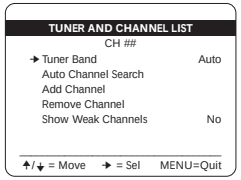




2 Select “Tuner & Channel List”

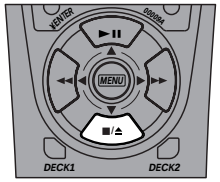
Press 3.

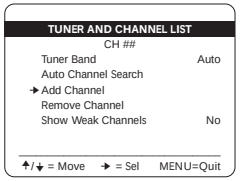




3 Select “Add Channel”

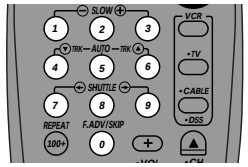
Press the down arrow until Add Channel is selected.

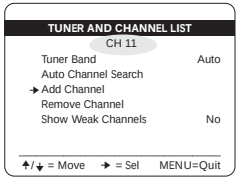




4 Tune the Channel

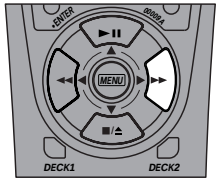
Use the number keys (0-9) to enter the channel number, e.g. “1-1” for Channel 11.

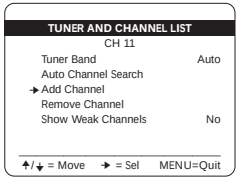




5 Add the Channel

Press the right arrow to add the channel to your channel list. Repeat steps 4 and 5 to add more channels.



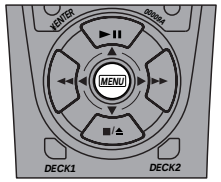


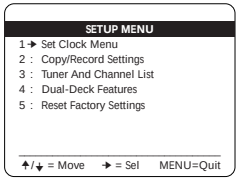
Remove Channel

Follow these steps to remove a channel that was stored during Auto Channel Search.

1 Open “Setup Menu”

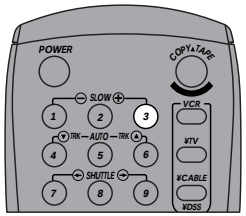
Press and hold the Menu button for 3 seconds.

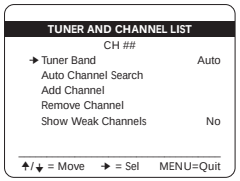




2 Select “Tuner & Channel List”

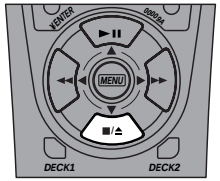
Press 3.

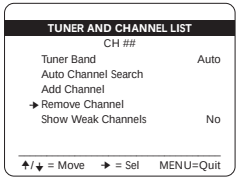




3 Select “Remove Channel”

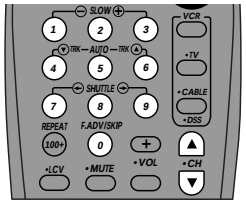
Press the down arrow until Remove Channel is selected.

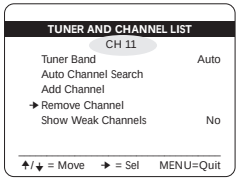




4 Tune the Channel

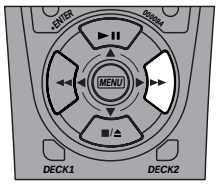
Use the Ch +/– buttons or the number keys (0-9) to enter the channel number.

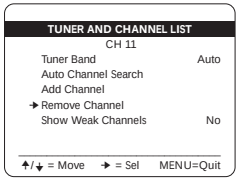




5 Remove the Channel

Press the right arrow to remove the selected channel from your channel list. Repeat steps 4 and 5 to remove additional channels.



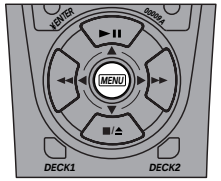


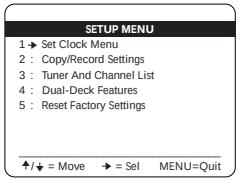
Show Weak Channels

When you run Auto Channel Search, it will skip channels with weak signals, i.e. poor picture quality. With Show Weak Channels, you can add more channels to your list by lowering the cut-off point at which a picture is acceptable to view.

1 Open “Setup Menu”

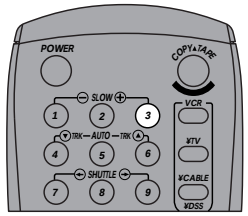
Press and hold the Menu button for 3 seconds.

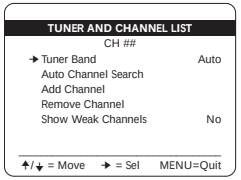




2 Select “Tuner & Channel List”

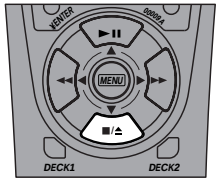
Press 3.

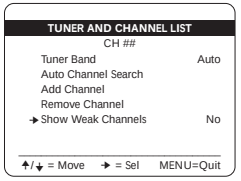




3 Select “Show Weak Channels”

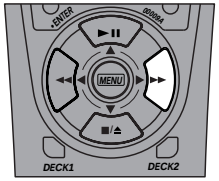
Press the down arrow until Show Weak Channels is selected.

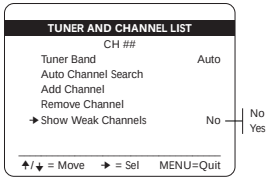




4 Set “Show Weak Channels”

Press the right arrow repeatedly to set Show Weak Channels to Yes or No.



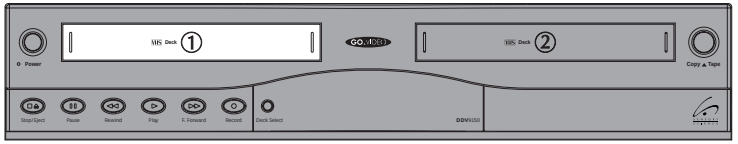


Basic Copying

To copy a tape, simply put your source tape in Deck 1, your blank tape in Deck 2, and press Copy Tape. The tape in Deck 1 will begin copying to Deck 2.

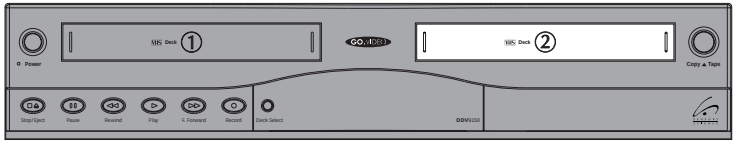
1 Insert Source Tape

Put the tape you wish to copy in Deck 1 on the left side of the VCR.



2 Insert Target Tape

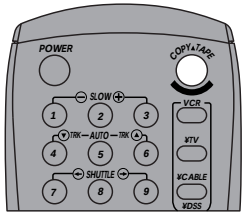
Put your blank tape in Deck 2 on the right side of the VCR.

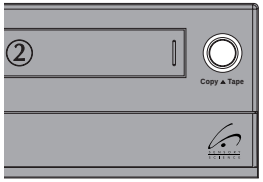


3 Copy Your Tape

Press the Copy Tape button on either the remote control or the front of the VCR. The tape in Deck 1 will begin copying to Deck 2.

- To Pause copying, press Copy Tape.
- To resume copying, press Copy Tape again.
- To stop copying, press Stop/Eject on both decks; see Sync Editing on page 64.





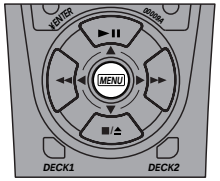
EZ Copy

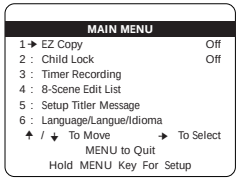
EZ-Copy automates the entire copy process so you can copy an entire tape at the touch of a button. Just press the Copy Tape button, and the VCR will rewind both decks completely, copy the source tape to the target tape, rewind both decks again, and eject the tapes.

Complete Program Record
When EZ Copy is selected, the source tape begins to copy in SP; the VCR then calculates how much time is remaining on the target tape and adjusts the copy speed to SLP if necessary to copy the entire tape. If there is not enough room to copy the entire source tape, the VCR will copy in SLP until the end of the target tape is reached.

1 Open "Main Menu"

Press the Menu button on the remote control.



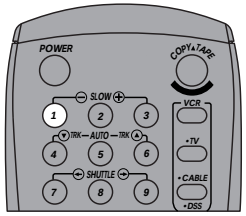


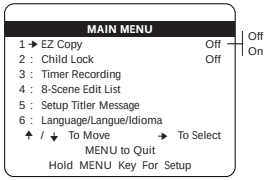
2 Set "EZ Copy"

Press 1 repeatedly to turn EZ Copy on or off:

- **On** — When Copy Tape is pressed, both decks will rewind, the tape in Deck 1 will be copied to Deck 2, both decks will rewind again, and the tapes will be ejected.
- **Off** — When Copy Tape is pressed, the tape in Deck 1 will begin copying to Deck 2 immediately from the current position of both decks. To stop copying, activate Deck 2 and press Stop. The tapes will not be rewound or ejected.

Note: If the target tape ends before the source tape, neither tape will rewind to alert you that a problem occurred.



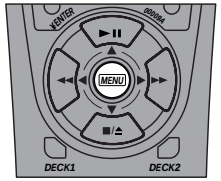


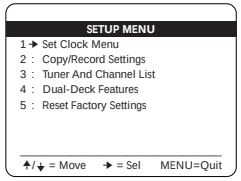
Copy Mode

There are two methods of copying a tape from Deck 1 to Deck 2: HQ1 (High Quality 1) and HQ2 (High Quality 2). HQ1 is best if your source tape is recorded in SP. HQ2 is best if your source tape is recorded in LP or SLP. The Auto setting will make this choice for you.

1 Open "Setup Menu"

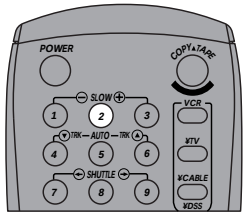
Press and hold the Menu button for 3 seconds.

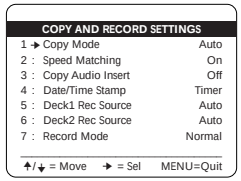




2 Select "Copy/Record Settings"

Press 2.

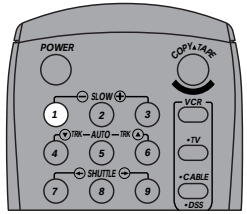


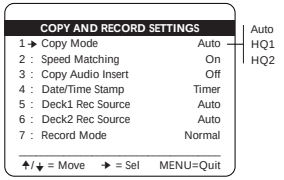


3 Set "Copy Mode"

Press 1 repeatedly to set Copy Mode to:

- **Auto** — Automatically sets the Copy Mode.
- **HQ1** — High Quality 1. Best if source tape is in SP.
- **HQ2** — High Quality 2. Best if source tape is in LP or SLP.



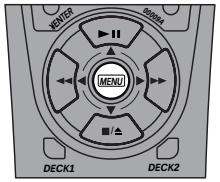


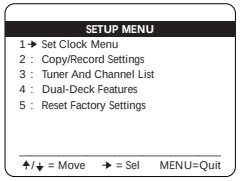
Speed Matching

Speed Matching automatically sets the Deck 2 record speed to be the same as the Deck 1 playback speed when copying a tape. You will typically get the best results with this feature turned on. You must disable this feature to copy multiple movies onto a single blank tape.

1 Open “Setup Menu”

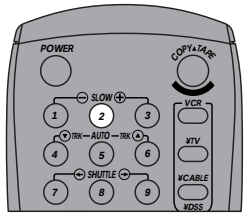
Press and hold the Menu button for 3 seconds.

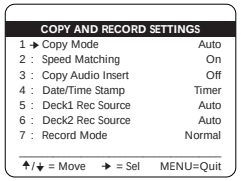




2 Select “Copy/Record Settings”

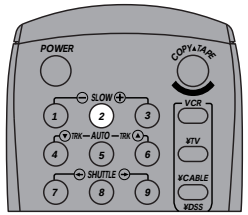
Press 2.

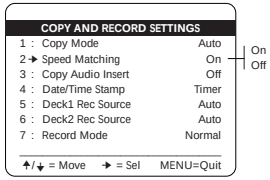




3 Set “Speed Matching”

Press 2 repeatedly to turn Speed Matching on or off. Turn Speed Matching off only if you want to record two or three SP tapes onto one SLP tape. If you do this, you will need to set the Record Speed manually using the SP/SLP button on the remote control (see page 50).



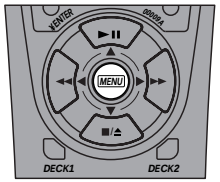


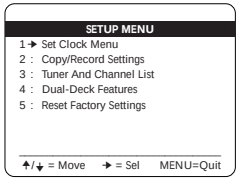
Copy Audio Insert

You can insert a new audio track, such as music or voice-overs, while you are copying a tape.

1 Open “Setup Menu”

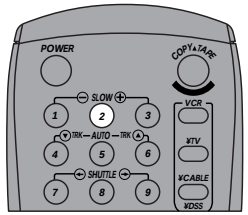
Press and hold the Menu button for 3 seconds.

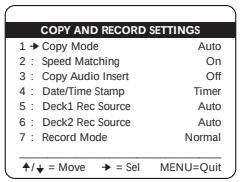




2 Select “Copy/Record Settings”

Press 2.

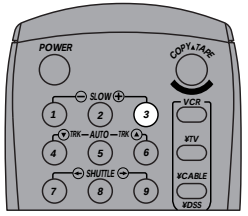


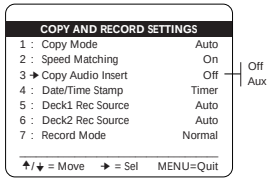


3 Set “Copy Audio Insert”

Press 3 repeatedly to set Copy Audio Insert to:

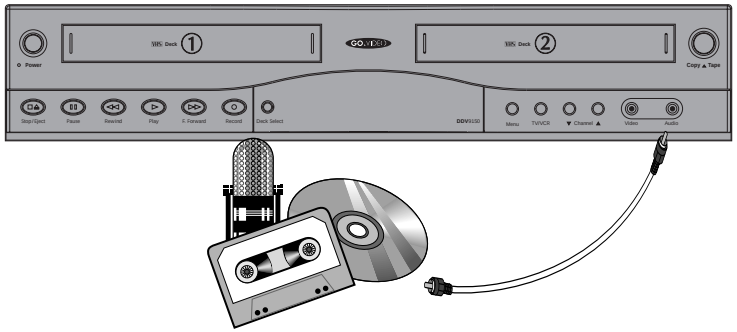
- **Off** — Copy Audio Insert is disabled.
- **Aux** — During Copy Tape session, audio will be recorded from a device connected to the front audio jacks.





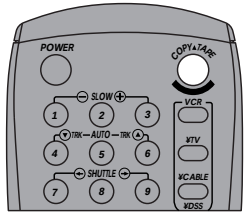
4 Connect Audio Source

Connect the external audio source to the front audio input (Aux).



5 Copy New Audio Track

Insert tapes in both decks and press Copy Tape. At the same time, play the audio source.



Notes:

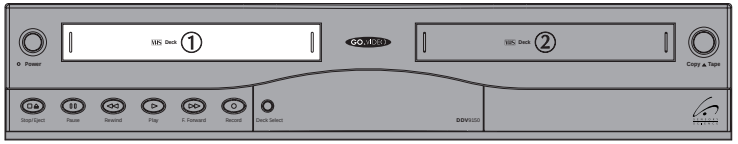
- The new audio signal replaces the tape's original audio track.
- If there is no audio source playing, the audio track will be blank.
- Copy Audio Insert automatically reverts to off when the VCR is turned off.

Basic Playback

To play a videotape, simply insert it in either deck and press the Play button.

1 Insert Tape

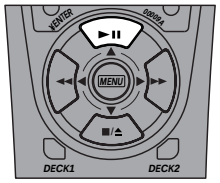
Insert a standard VHS tape into Deck 1 or Deck 2.



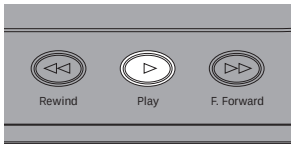
2 Play Tape

Press Play on the remote control or the front panel.

Notes: If Auto Play is on and the tape is missing the Record Safety Tab, the tape will begin to play automatically; see page 46.



Or

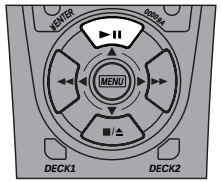


Special Playback Features

While a tape is playing, you can enjoy a variety of special playback features, including Freeze, Scan, Skip, Slow Motion, and more. Press the Play button again to resume normal playback.

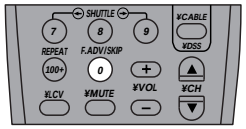
Freeze Frame

From Play mode, press Play/Still to freeze a single frame.



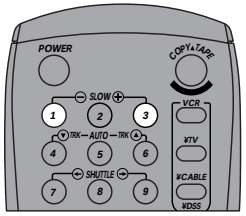
Frame Advance

From Still mode, press F.Adv/Skip (0) to advance to the next frame.



Slow Motion

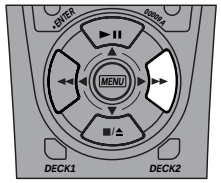
From Play mode, press Slow +/– (1, 3) for Slow Motion playback at variable speeds.



Cue

From Play mode, press F.Forward to cue at two speeds:

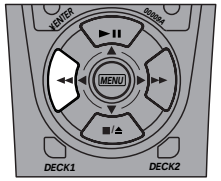
- **Picture Search** — Press and release F.Forward to advance the tape at 5 times normal speed.
- **Jet Search** — Press and hold F.Forward to advance the tape at 7 times normal speed.



Review

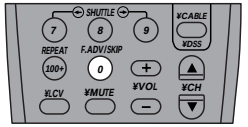
From Play mode, press Rewind to review at two speeds:

- **Picture Search** — Press and release Rewind to review the tape at 5 times normal speed.
- **Jet Search** — Press and hold Rewind to review the tape at 7 times normal speed.



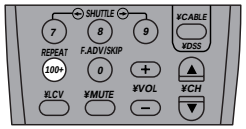
Skip

From Play mode, press F.Adv/Skip (0) repeatedly up to 5 times to cue ahead 1-5 minutes.



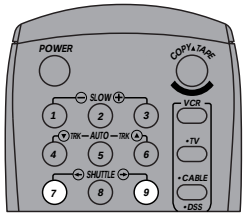
Repeat

From Play mode, press Repeat (100+) to review the last 30 seconds of tape.



Shuttle

From Play mode, Shuttle ➔ (9) gradually increases the cue speed from Double-Speed playback to Picture Search to Jet Search. Shuttle ➔ (7) gradually slows down the tape, Pauses, then goes into Reverse Picture Search and Reverse Jet Search.

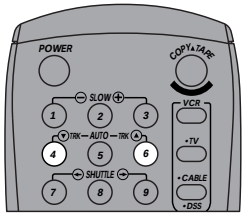


Tracking

Adjusting the Tracking removes the lines that sometimes appear during playback because of slight differences in recording decks. Your Dual-Deck VCR will automatically align the recorded tracks with the playback heads to solve this problem. You may also set tracking manually.

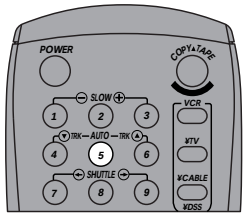
1 Adjust Tracking Manually

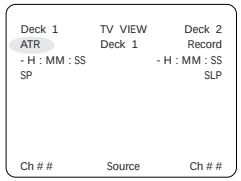
Press the Tracking up/down arrow keys (4, 6) to move the white lines out of the picture.



2 Resume Auto Tracking

While your tape is playing, press Auto (5) to have the VCR adjust tracking automatically. ATR will flash on the on-screen display.



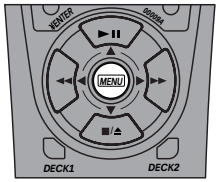


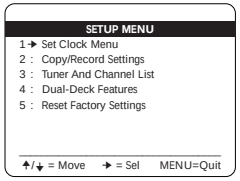
Sequential/Loop Playback

You can insert two tapes in your Dual-Deck VCR and have them play sequentially or in a continuous loop. For example, you may rent a movie that comes on two videotapes and watch them seamlessly one after the other. You may also set two sales or training tapes to loop continuously.

1 Open "Setup Menu"

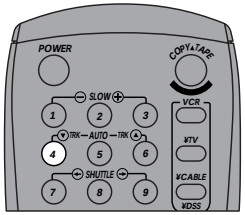
Press and hold the menu button on the remote control for 3 seconds.

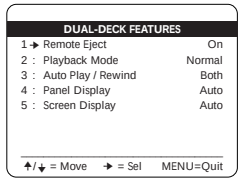




2 Select "Dual-Deck Features"

Press 4.

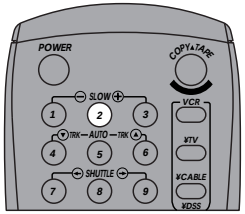


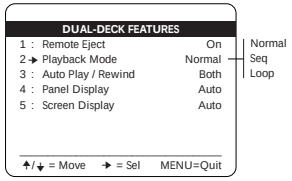


3 Set "Playback Mode"

Press 2 repeatedly to set Playback Mode to:

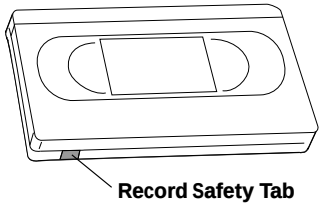
- **Normal** — Tapes play normally (default setting).
- **Seq** (Sequential) — The tape in Deck 1 will play to the end, then the tape in Deck 2 will play to the end.
- **Loop** — The tape in Deck 1 will play to the end, then the tape in Deck 2 will play to the end. While Deck 2 is playing, the tape in Deck 1 will rewind to the beginning. This process will repeat continuously until you press Stop on the deck in Play.





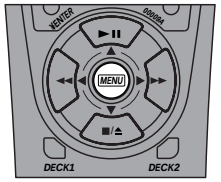
Auto Play/Rewind

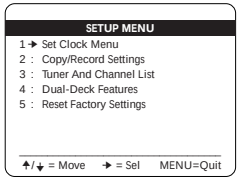
Auto Play will play tapes without record safety tabs automatically when they are inserted. Auto Rewind will rewind tapes when they reach the end during playback.



1 Open "Setup Menu"

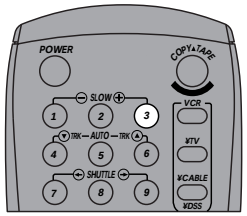
Press and hold the menu button on the remote control for 3 seconds.

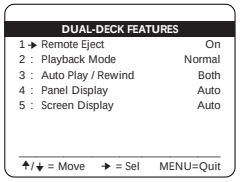




2 Select "Dual-Deck Features"

Press 3.

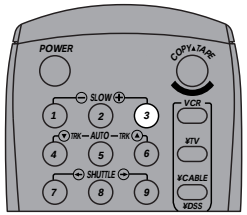


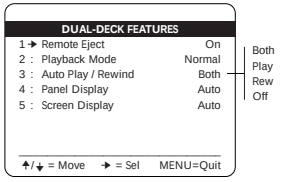


3 Set "Auto Play/Rewind"

Press 3 repeatedly to set Auto Play/Rewind to:

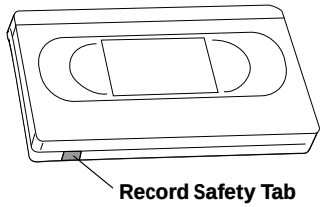
- **Both** — Auto Play and Rewind will both be enabled.
- **Play** — Tapes without record safety tabs will play automatically when they are inserted.
- **Rew** — Tapes will rewind automatically when they reach the end during playback.
- **Off** — Auto Play and Rewind will both be disabled.





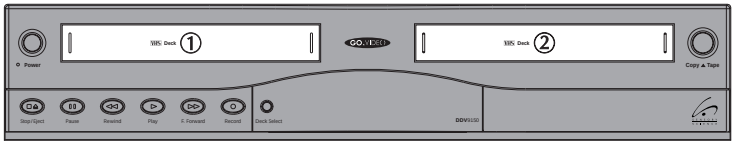
Basic Recording

You can record your favorite TV shows at the touch of the Record button. Be sure your videotape has a Record Safety Tab. If it is missing, you can cover the opening with a small piece of tape. Warning: Do not cover this opening unless you are sure you want to record over the tape.



1 Insert Tape

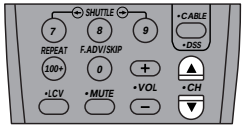
Insert a blank tape into either deck.



2 Select a Channel to Record

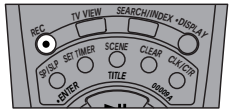
Use the 0–9 buttons or the Channel Up/ Down arrow keys to select the desired channel.

Or



3 Start Recording

Press the Record button. For options while a recording is in progress, see Record Options on the next page.



Notes:

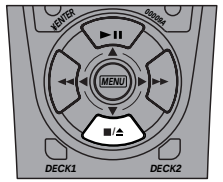
- Be sure the TV is set to channel 3 or 4 (whichever the switch is set to on the back of the VCR).
- Make sure the TV/VCR button on the front panel is set to VCR (the VCR icon will appear on the front panel display).
- Be sure the tape is long enough to record the entire program. To change the recording speed, see page 50.

Recording Options

While a recording is in progress, you can watch a different channel, watch a videotape in the other deck, or add recording time in 30-minute increments.

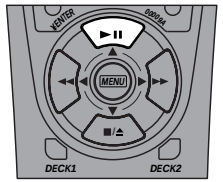
To Stop Recording...

Press Stop.



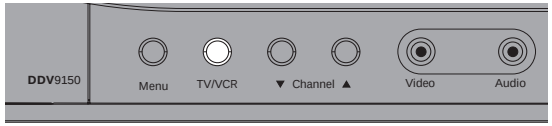
To Pause Recording...

Press Play/Still. To resume recording, press Record.



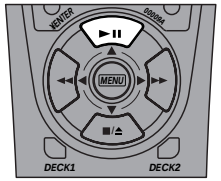
To Watch a Different Channel...

Press the TV/VCR Button on the front panel to switch to TV mode (the VCR icon will disappear from the front panel display), then select a different channel using your TV's tuner.



To Watch Another Videotape...

Insert a tape in the second deck and press Play. The TV View will change automatically.



To Add Recording Time...

See One-Touch Recording (OTR) on page 49.

One-Touch Recording (OTR)

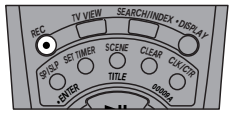
OTR allows you to add recording time in 30-minute increments at the touch of a button.

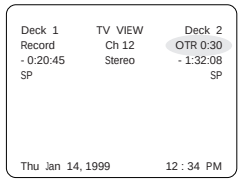
1 Start Recording

Follow the instructions on page 47.

2 Activate OTR

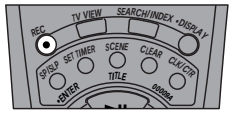
While in Record mode, press Record again to activate One-Touch Recording. OTR 0:30 will appear on the On-Screen Display and the VCR will record for exactly 30 minutes.

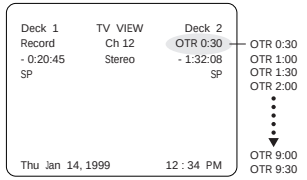




3 Add Recording Time

While in OTR mode, press Record again to increase recording time in 30 minute increments up to 9 hours and 30 minutes.



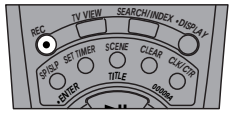


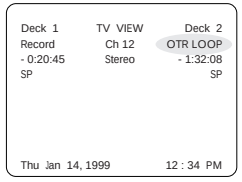
4 Activate Loop Record

When you reach OTR 9:30, press Record again to enter Loop Record. The active Deck will record over and over again in a continuous loop until you press Stop. This can be used for continuous recording of security cameras.

Notes:

- If you press Power during an OTR session, the Dual-Deck VCR will turn off automatically when the recording time has elapsed.
- When the recording time has elapsed, the VCR will stop automatically.





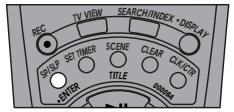
Record Speed

You can adjust the speed at which your Dual-Deck VCR records, e.g. to fit more than 2 hours of programming on a T-120 tape.

1 Start Recording

Follow the instructions on page 47.

2 Set Record Speed



Press the SP/SLP button on the remote control to switch the record speed between:

- **SP** — Standard Play.
- **SLP** — Super Long Play (3 times SP).

Maximum Record Time

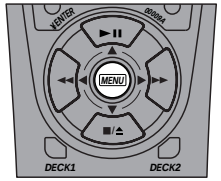
Tape Length	SP (Standard Play)	SLP (Super Long Play)
T-120	2 hr	6 hrs
T-160	2 hrs 40 min	8 hrs
T-180	3 hrs	9 hrs

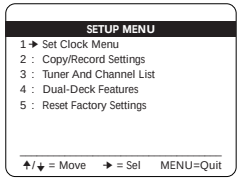
Record Source

You can set the Dual-Deck VCR to record from the Tuner, Decks or Aux inputs. The Auto setting will record whatever is currently visible on-screen.

1 Open “Setup Menu”

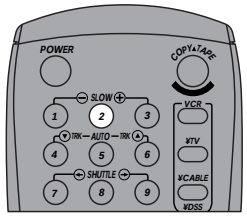
Press and hold the Menu button for 3 seconds.

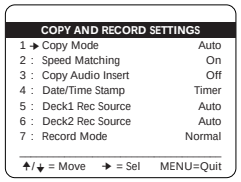




2 Select “Copy/Record Settings”

Press 2.

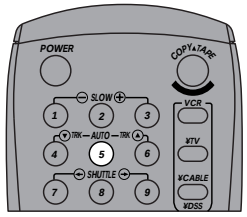


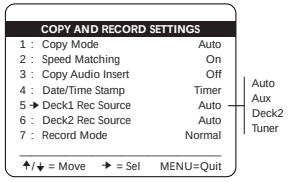


3 Set “Deck 1 Rec Source”

Press 5 repeatedly to set Deck 1 Rec Source to:

- **Auto** — The current TV View (whatever you currently see on-screen).
- **Aux** — Source connected to front line inputs.
- **Deck2** — Tape playing in Deck 2.
- **Tuner** — Current television program.

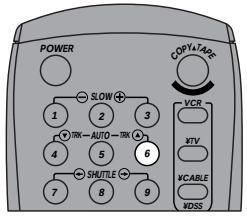


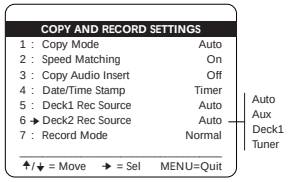


4 Set “Deck 2 Record Source”

Press 6 repeatedly to set Deck 2 Rec Source to:

- **Auto** — The current TV View (whatever you currently see on the screen).
- **Aux** — Source connected to front line inputs.
- **Deck1** — Tape playing in Deck 1.
- **Tuner** — Current television program.



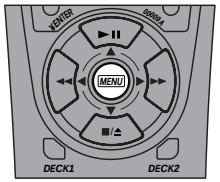


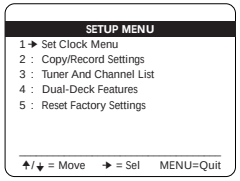
Sequential/Loop Recording

You can insert two tapes in your Dual-Deck VCR and have them record sequentially or in a continuous loop. This will allow you to record up to 18 hours of programming in SLP mode. Loop recording is useful for continuous recording of security cameras.

1 Open "Setup Menu"

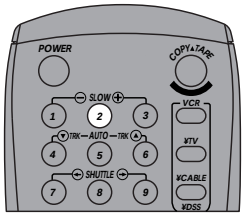
Press and hold the Menu button for 3 seconds.

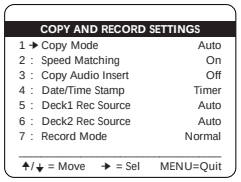




2 Select "Copy/Record Settings"

Press 2.

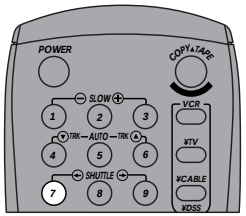


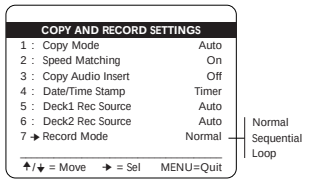


3 Set "Record Mode"

Press 7 repeatedly to set Record Mode to:

- **Normal** — Tapes record normally (default setting).
- **Sequential** — The tape in Deck 1 will record to the end, then the tape in Deck 2 will record to the end.
- **Loop** — The tape in Deck 1 will record to the end, then the tape in Deck 2 will record to the end. While Deck 2 is recording, the tape in Deck 1 will rewind to the beginning. This process will repeat continuously until you press Stop on the deck in Record.



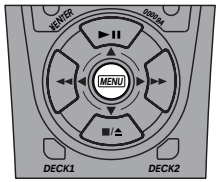


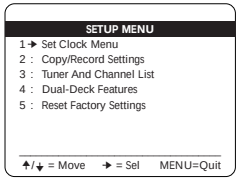
Date/Time Stamp

The Date/Time Stamp allows you to overlay the date, time, and record source at the start of, or continuously throughout, your recordings. You can use the stamp on all recordings or on timer recordings only. The stamp will not appear, however, when you copy a tape.

1 Open "Setup Menu"

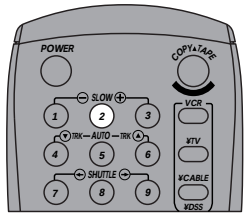
Press and hold the Menu button for 3 seconds.

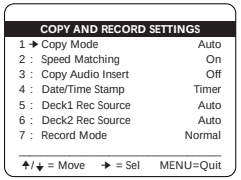




2 Select "Copy/Record Settings"

Press 2.

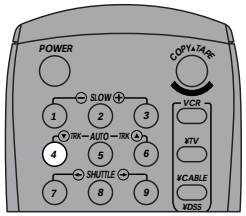


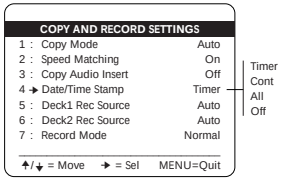


3 Set "Date/Time Stamp"

Press 4 repeatedly to set Date/Time Stamp to:

- **Timer** — The date, time, and record source will appear briefly at the start of all timer recordings only (default setting).
- **Cont (Continuous)** — The date, time, and record source will appear continuously over all recordings. The On-Screen Display and Menu system will be disabled if this setting is on. Press Stop on the recording deck to restore normal on-screen functions.
- **All** — The date, time, and record source will appear briefly at the start of all recordings except copies.
- **Off** — The Date/Time Stamp is disabled.



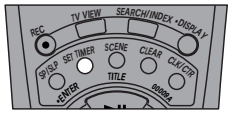


How to Set a Timer Recording

Sometimes you may wish to record a television show when you're not home. Or you may want to create a library of your favorite TV shows. The Timer Recording Feature allows you to set up to 16 events at a time up to 1 year in advance.

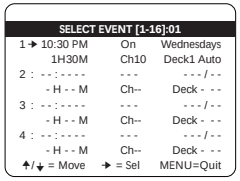
1 Open "Select Event Menu"

Press the Set Timer button.

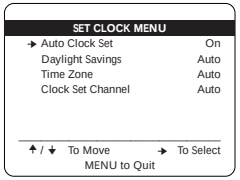


Notes:

- If you haven't set the clock, the Set Clock menu will appear. You must set it before you can program a Timer Recording (see page 7).
- You can also access the Select Event Menu from the Main Menu. Press the Menu button to bring up the Main Menu; then press 3 to select Timer Recording.

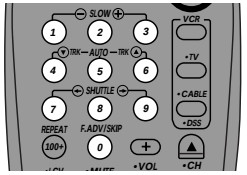


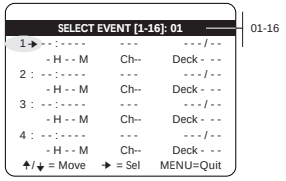
Or



2 Choose Event Number

Use the number keys to enter the next available event number (1–16) as a 2-digit number; i.e., for "1", press "0-1".

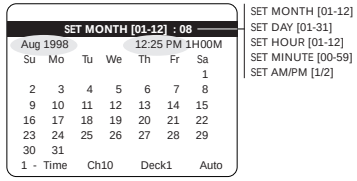




3 Set Event Date & Time

Use the number keys to set the date and time of the event. The default setting is the current date and time. To leave an entry unchanged, press the right arrow key. If you enter an invalid number, you will be prompted to reenter a valid one.

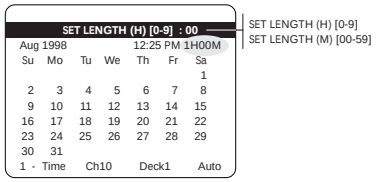
- **Set Month** — Enter the month as a 2-digit number; i.e. for August, press “08”.
- **Set Day** — Enter the day as a 2-digit number; i.e. for the ninth, press “09”.
- **Set Hour** — Enter the hour as a 2-digit number; i.e. for 12:00, press “12”.
- **Set Minute** — Enter the minute as a 2-digit number; i.e. for 00:25, press “25”.
- **Set AM/PM** — Enter 1 for AM or 2 for PM



4 Set Event Length

Use the number keys to set the length of the event. The default setting is 0 Hours and 30 Minutes.

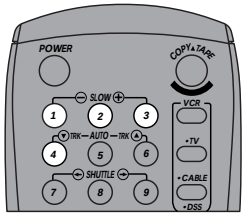
- **Set Length (H)** — Enter the hours as a 2-digit number; i.e. for 1 hour, press “01”.
- **Set Length (M)** — Enter the minutes as a 2-digit number; i.e. for 30 minutes, press “30”.

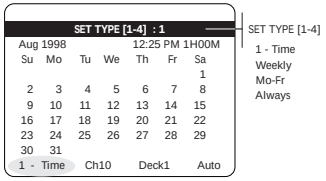


5 Set Event Type

Use the number keys (1-4) to set how often the event will be recorded. The default setting is one time.

1 **1 - Time** — The event will be recorded once only.
2 **Weekly** — The event will be recorded every week.
3 **Monday–Friday** — The event will be recorded every weekday.
4 **Always** — The event will be recorded every day.



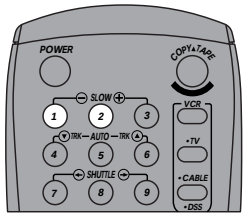


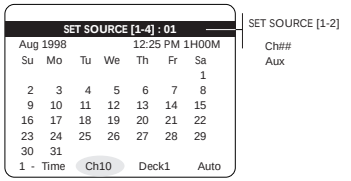
Cable Box Recording—
If you are programming a timer recording with a cable box, set the Record Source to Channel 2, 3, or 4—whichever your cable box uses—and select the channel you wish to record on the cable box.

6 Set Recording Source

Use the number keys (1-3) to set the record source. The default setting is the current tuner channel.

1 **Channel** — Records video and audio from the Tuner. Use the number keys (0-9) or up/down arrow keys to set the channel number.
2 **Aux** — Records video and audio from the front auxiliary inputs.



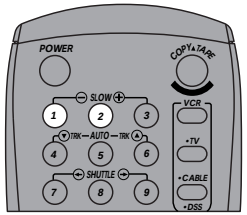


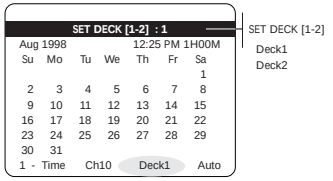
7 Set Recording Deck

Use the number keys (1-2) to set the deck in which you would like to record. The default setting is the currently selected deck.

1 Deck 1 — Sets the Timer Recording to record in Deck 1.

2 Deck 2 — Sets the Timer Recording to record in Deck 2.





Complete Program Record
When Auto is selected, the Timer event begins to record in SP; the VCR then calculates how much time is remaining on the tape and adjusts the record speed to SLP if necessary to fit the entire event. If there is not enough tape to record the entire event, the VCR will record in SLP until the end of the tape is reached.

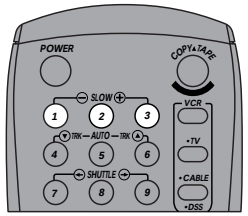
8 Set Recording Speed

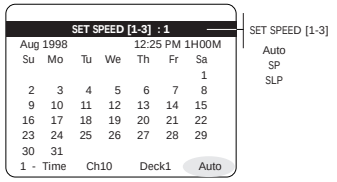
Use the number keys (1-3) to set the recording speed. The default setting is Auto.

1 Auto — Complete Program Record (see note at left).

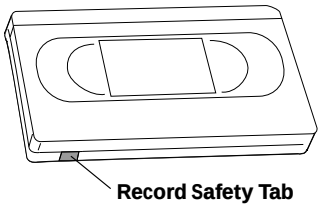
2 SP — Standard Play. Delivers best quality. A T-120 tape will record 2 hours.

3 SLP — Super Long Play. Delivers maximum recording time. A T-120 tape will record 6 hours.





Be sure your videotape has a Record Safety Tab. If it is missing, you can cover the opening with a small piece of tape. Warning: Do not cover this opening unless you are sure you want to record over the tape.

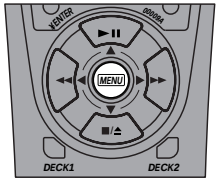


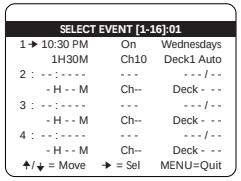
Record Safety Tab

9 Confirm Settings

When all settings are complete, press Menu to confirm the Timer event and view a summary of all programmed events.

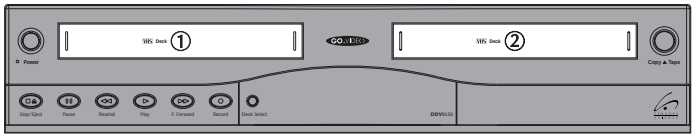
- To program another event, select the next available event number.
- To edit an existing event, select an event number that has already been programmed.
- To delete an event, use the up/down arrow keys to select it, then press Clear.
- To exit the Event Summary screen, press Menu.





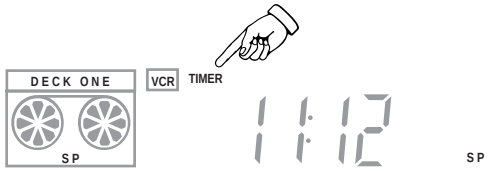
10 Insert Tape

Insert a blank tape with a Record Safety Tab into the deck you designated in Step 7.



11 Timer Recording is Complete!

The event is stored in memory and will record at the scheduled time. A red Timer icon will appear on the front panel display.



Notes:

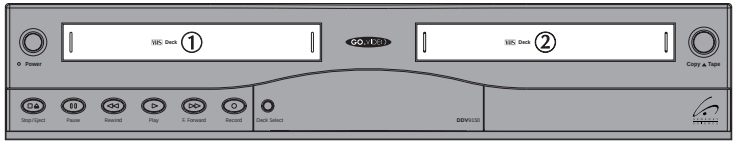
- If there is a problem with your Timer Recording, the Timer icon will flash and a Timer Record Error will appear on the screen; see page 60.
- The Power will come on automatically when the Timer Recording begins.
- To stop an event in progress, press Stop for the recording deck. A warning message will appear on-screen. Press Stop again to cancel the event.

Timer Recording Errors

If there is a problem with your Timer Recording, the word Timer will flash on the Front Panel Display and an error message will appear on the On-Screen Display. Once you correct the error, the event will begin if there is still time remaining for that event.

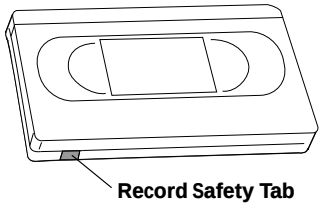
Tape Missing

No videotape in recording deck.
- Insert a videotape in the recording deck.



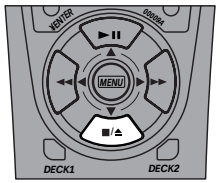
Tape Missing Tab

No record safety tab in videocassette.
- Insert a video cassette with the record safety tape intact, or place a small piece of adhesive tape over the opening to permit recording.



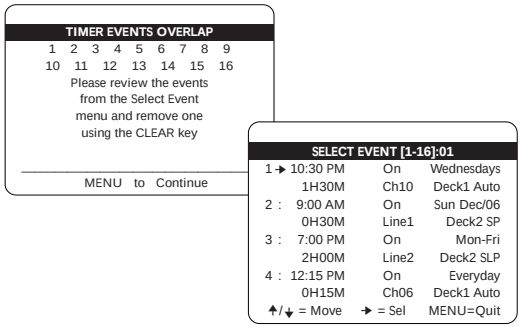
Not Ready

The recording Deck is not in Stop mode (i.e. it is playing, rewinding, etc.).
- Press Stop to stop the recording deck.



Overlapping Events

Two or more events are programmed to occur at the same time:
- When you program a new event, the VCR checks all timer events for conflicts. If two events overlap, you will be prompted to either delete one of the events, or allow them to overlap.
- If events overlap, the first event will be completely recorded, then the next event starts and the remainder of that event is recorded.

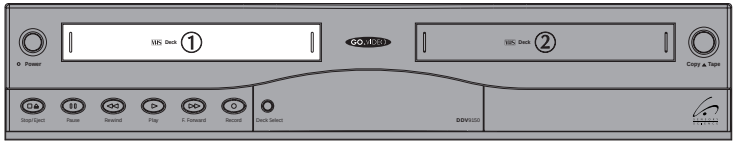


8-Scene Editor

There are two ways to edit your movies with the Dual-Deck VCR. You can use the 8-Scene Editor, which automatically assembles up to 8 scenes when you mark their beginning and ending points. Or you can use the Sync Edit feature, which allows you to manually cut unwanted scenes while copying a tape.

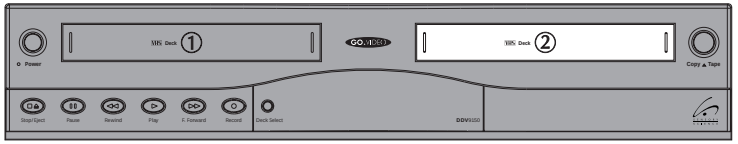
1 Insert Source Tape

Put the tape with your source material in Deck 1.



2 Insert Target Tape

Put your blank tape in Deck 2. To ensure quality edits, it is best to record on blank or pre-formatted tapes. You can format your tapes by recording the line input over the entire tape with no signal.

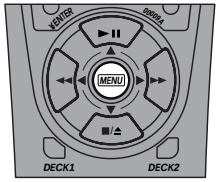


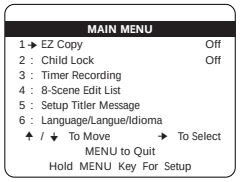
3 Review Source Tape

Make a list of the scenes you wish to use in your final movie with their beginning and ending tape counter positions. Reorder the scenes if desired.

4 Open “Main Menu”

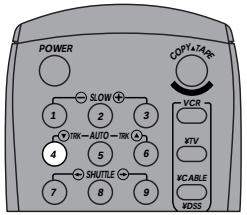
Press Menu.

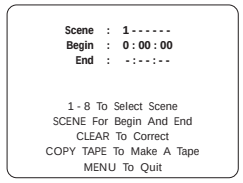




5 Select “8-Scene Edit List”

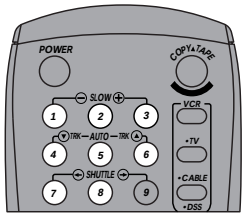
Press 4 to open the 8-Scene Edit List menu. The number 1 and “Begin” will flash.

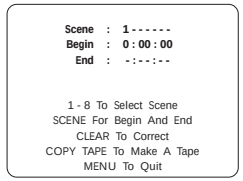




6 Select Scene Number

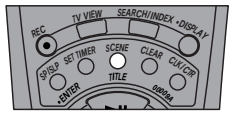
Choose a scene number from 1 to 8. You can enter scenes in any order. The scene number you choose will flash.

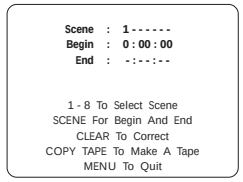




7 Mark Beginning of Scene

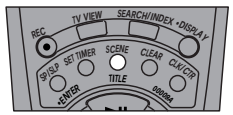
Play the tape to the beginning of the desired scene and press the Scene/Title button. The scene number and “End” will flash. Use the special playback functions to quickly find the position you want; see page 42.

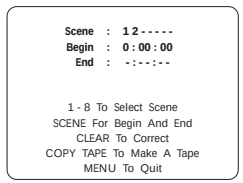




8 Mark End of Scene

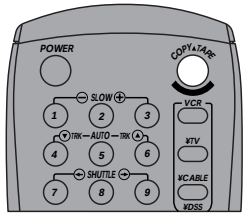
Play the tape to the end of the desired scene and press the Scene/Title button. The next available scene number and “Begin” will flash. Use the Clear button to correct your entries. Repeat Steps 6-8 to load up to 8 scenes at a time.





9 Make a Tape

When you are satisfied with the order and length of each scene, press Copy Tape to begin assembling the tape.



Notes:

- The Dual-Deck VCR will automatically copy each scene in order from the source tape to the target tape.
- When the process is finished, return to Step 6 to add more scenes, or press Menu to quit.

Sync Editing

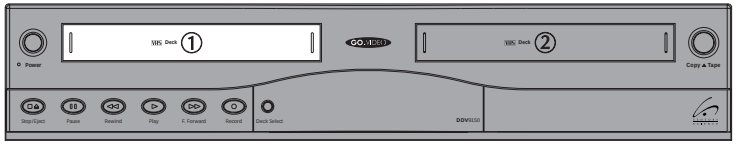
The second way to edit movies is to use Sync (short for Synchronized) Editing. This method is useful if you want to copy part of a tape, or if you want to cut commercials while copying a TV show. The Copy Tape button is the key to synchronizing the playback deck with the recording deck.

1 Before You Begin —

- Turn off Auto Play; see page 46.
- Turn off EZ Copy; see page 36.

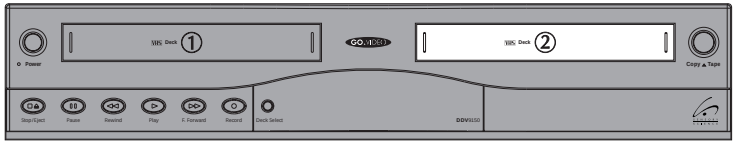
2 Insert Source Tape

Put the tape with your source material in Deck 1.



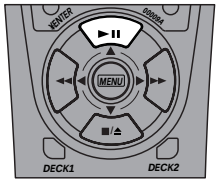
3 Insert Target Tape

Put your blank tape in Deck 2.



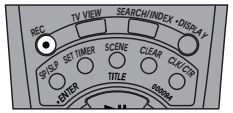
4 Position Target Tape

Play the tape in Deck 2 to where you want the copied material to start, then press Still. Leave at least 1 minute of blank tape at the beginning of a tape to ensure a crisp edit.



5 Set Target Tape to Record/Pause

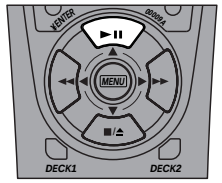
While the target tape is in Play/Still mode, press Record for Deck 2. This puts the deck in Record/Pause mode.



To automatically cut commercials when performing a Sync Edit, see Skip Edit on the following page.

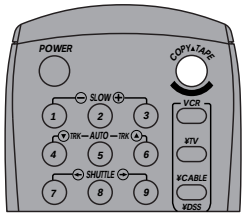
6 Position Source Tape

Play the tape in Deck 1 to the beginning of the segment you wish to copy, then press Still. Use the special playback functions to quickly find the position you want; see page 44. Copy will flash on the front panel display.



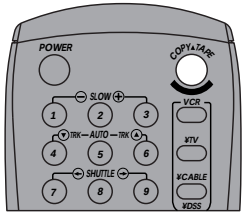
7 Start Sync Edit

Press the Copy Tape button. The tape in Deck 1 will begin copying to Deck 2.



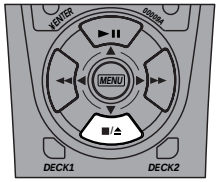
8 Pause/Resume Sync Edit

Press the Copy Tape button to pause the Sync Edit. Copy will flash on the Front Panel Display. To resume, press Copy Tape again. With the Sync Edit paused, you can reposition the source tape in Deck 1, e.g. to fast-forward over a commercial.



9 Stop Sync Edit

To stop the Sync Edit process, press Stop on both decks.



How to Cut Commercials with Skip Edit

The Skip Edit feature allows you to remove commercials during a Sync Edit at the touch of a button. Commercials typically run from 1 to 5 minutes in length. Each time you press Skip Edit, you will automatically cut 1 to 5 minutes of source tape from your target tape.

1 Set Up a Sync Edit

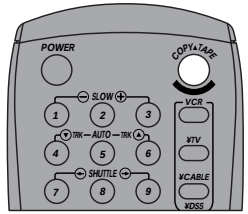
Follow Steps 1-6 on page 64.

2 Preview Commercials

As you position your source tape, note how many minutes the commercials are that you wish to cut.

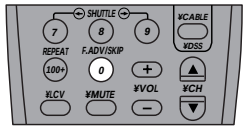
3 Start Sync Edit

Press Copy Tape to begin copying the source tape from Deck 1 to Deck 2.



4 Cut the Commercials

When the commercials start, press F.Adv/Skip once for every minute of commercials to be deleted. The Dual-Deck VCR will automatically edit out the commercials on the target tape, then resume copying.

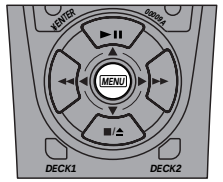


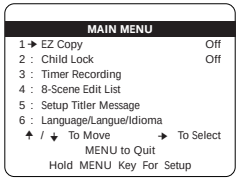
On-Screen Titler

You can add titles or credits to your movies with the On-Screen Titler. Create your message from over 100 letters, numbers and symbols. There are two steps to using the Titler: Setting up the Titler Message and Recording the Title.

1 Open “Main Menu”

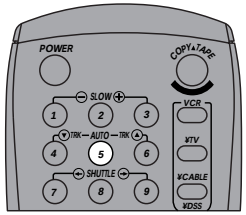
Press Menu on the remote control.

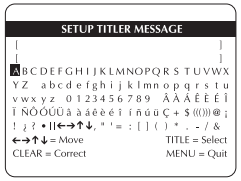




2 Select “Setup Titler Message”

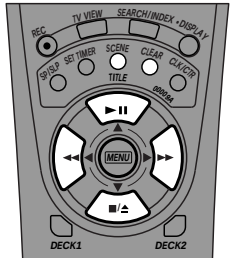
Press 5.

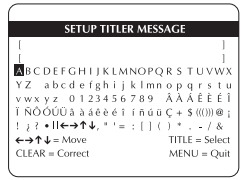




3 Compose Your Message

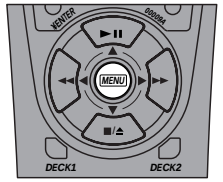
Use the up, down, left, & right arrow keys to select each character in your message, pressing Title after each to insert the character at the current cursor position. If you make a mistake, press Clear to backspace to the previous character.





4 Save Your Message

When you are satisfied with your message, press Menu to save and quit. To record your message, see page 68.

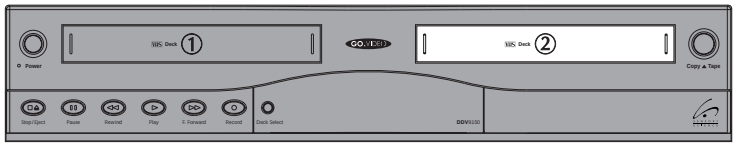


Recording Titler Message

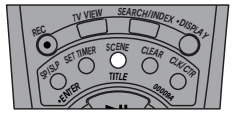
Once you have set up your Titler Message, you can record it by pressing the Scene/Title button while a tape is recording in Deck 2. You can record the title for up to 20 seconds in 5-second increments.

1 Start Recording

Insert your target tape in Deck 2 and initiate any Record mode, i.e., Record, One-Touch Record, Copy Tape, or Timer Record. See the corresponding chapters to activate any of these modes. Note: You must use Deck 2 to record Titler Messages.



2 Record Titler Message



While in Record mode, press Scene/Title repeatedly to record your Titler Message on-screen for 5, 10, 15, or 20 seconds.

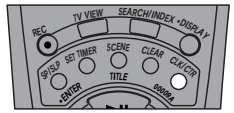
Note: You must be recording a video signal when you record your Titler Message, i.e. you cannot record a title on blank tape.

Overview

The Dual-Deck VCR Search/ Index features allow you to scan and search for Index Marks, quickly find blank space on a tape, search for exact tape counter positions, and return to 0:00:00. The real-time tape counter gives you real-time feedback on the precise position of your tapes.

Clk/Ctr Button

Press the Clk/Ctr button repeatedly to change the view on the front panel display among the following:



Clock

Shows you the time as set in the Set Clock Menu.

Real-Time Tape Counter

Shows you the tape position in the active deck in hours, minutes, and seconds.

Time Remaining

Shows you the amount of time left on the tape in the active deck, computed by subtracting the current tape position from the total tape length in hours and minutes.

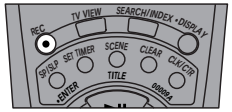
Note: The Clock/Counter/Time Remaining display will not appear if there is a deck status message on the front panel display, such as Copy, Play, Stop, etc.

Placing Index Marks

Index Marks are like bookmarks on your videotapes. They are inserted automatically at the start of every recording, or you can place them manually anywhere on a tape.

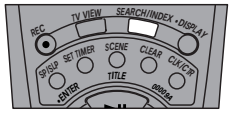
Automatic Index Marks

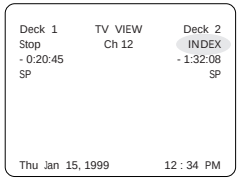
Index Marks are placed automatically whenever you start recording. This includes normal recording, OTR (One Touch Recording), timer recording, copying, or sync editing.



Manual Index Marks

You can place an Index Mark manually any time a tape is recording by pressing Search/ Index on the remote control. “Index” will flash briefly on the On-Screen Display while the mark is recorded.



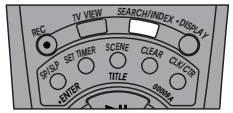


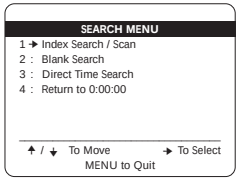
Index Scan

Index Scan will fast-forward or rewind to the nearest Index Mark, play a few seconds of tape, and then fast-forward or rewind to the next Index Mark. When you find the show you want to watch, press Play. Use this feature with the Date/Time Stamp to quickly find Timer Recordings on your tapes.

1 Open "Search Menu"

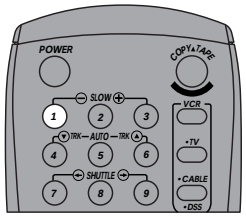
From Stop or Play mode, press Search/ Index.

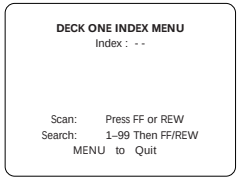




2 Select "Index Search/Scan"

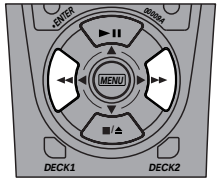
Press 1.

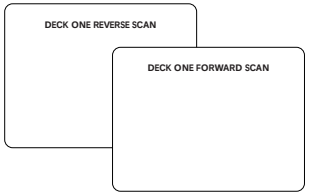




3 Scan for Index Marks

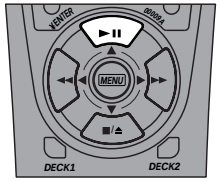
Press FF or Rewind to begin scanning for Index Marks forwards or backwards.





4 Review the Tape

When the Index feature locates an Index Mark, it will play the tape for 5 seconds. If it is the scene you want to watch, press Play. If it is not, the VCR will automatically search for the next Index Mark.

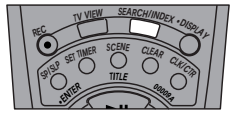


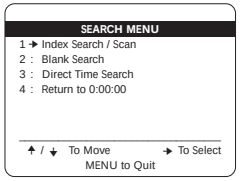
Index Search

Index Search will fast-forward or rewind a specific number of Index Marks from 1 to 99. When it reaches the desired Index Mark, it will play the tape. Use Index Search when you know the exact Index Mark you want to locate.

1 Open "Search Menu"

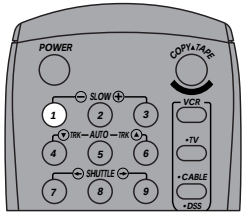
From Stop or Play mode, press Search/ Index.

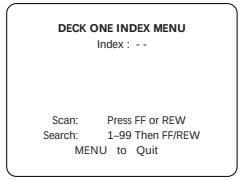




2 Select "Index Search/Scan"

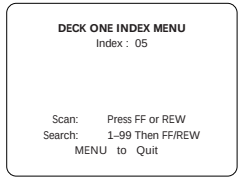
Press 1.





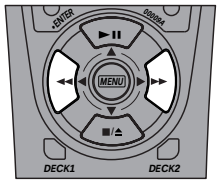
3 Enter # of Marks to Search

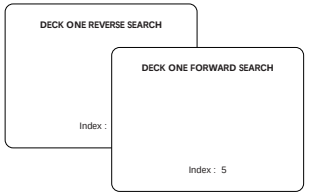
Enter a number from 1 to 99; i.e. press "0-5" for "5".



4 Search for Index Marks

Press FF or Rewind to begin searching for Index Marks forwards or backwards. When the VCR locates the Index Mark, it will play the tape.



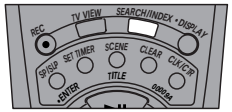


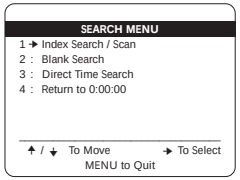
Blank Search

You can automatically find the next blank space of your videotape with Blank Search. This is useful when a videotape has been used but still has open space left for recording.

1 Open “Search Menu”

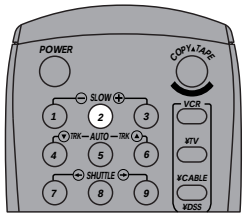
From Stop or Play mode, press Search/Index.

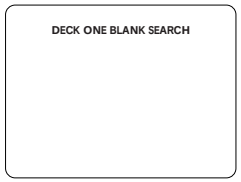




2 Select “Blank Search”

Press 2. The Dual-Deck VCR will automatically search for the next available blank space on your tape and stop.



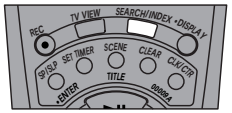


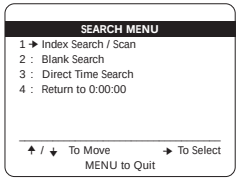
Direct Time Search

Use Direct Time Search to locate a specific tape location in hours, minutes, and seconds. This is especially useful when you have taken a careful inventory of the contents of your tape for editing—you can advance the tape directly to the beginning of the desired scene.

1 Open "Search Menu"

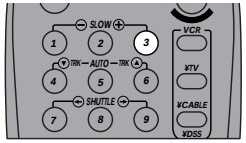
From Stop or Play mode, press Search/ Index.

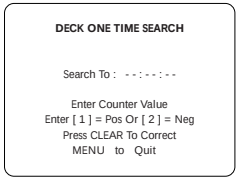




2 Select "Direct Time Search"

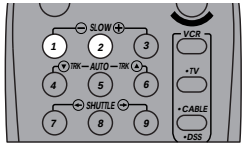
Press 3.

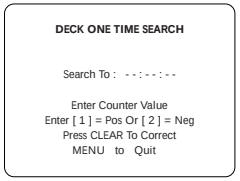




3 Select +/– Counter Value

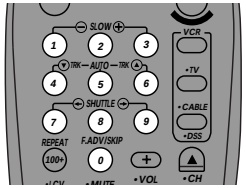
Press 1 for positive or 2 for negative counter values.

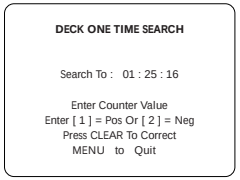




4 Enter the Time

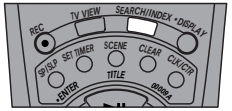
Use the number keys (0–9) to enter the time in hours, minutes, and seconds. Press Clear to correct your entry.

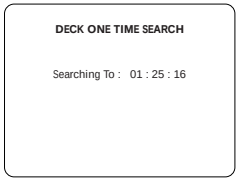




5 Start the Search

Press Search/Index to advance the tape to the specified time.



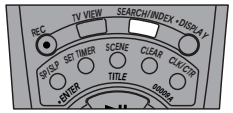


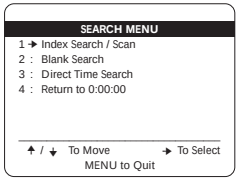
Return to 0:00:00

You can advance your video-tapes to tape counter position 0:00:00 at the touch of a button. This feature is useful when editing from a baseline counter value of 0:00:00.

1 Open “Search Menu”

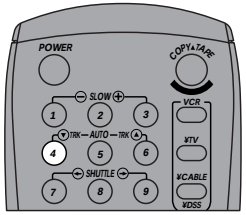
From Stop or Play mode, press Search/ Index.





2 Select “Return to 0:00:00”

Press 4. The tape will rewind or fast-forward to tape counter position 0:00:00.



Cable Box Hookup

This chapter will show you how to connect external devices, such as a cable box, stereo, or satellite receiver, to your Dual-Deck VCR.

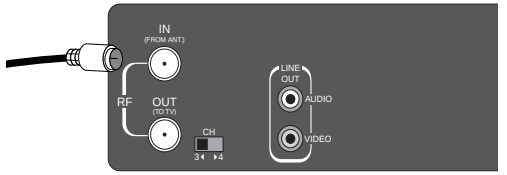
1 Connect Cable to Cable Box

Connect an RF antenna cable from your cable wall outlet to the “In from Cable” jack on the Cable Box.

2 Connect Cable Box to VCR

Connect a second RF cable from the “Out to TV” jack on the Cable Box to the “IN (FROM ANT.)” jack on the back panel of the VCR.

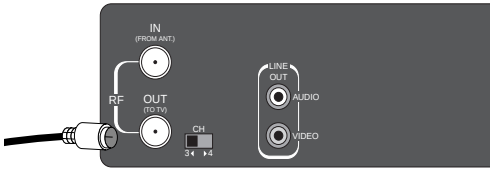
From Cable Box



3 Connect VCR to TV

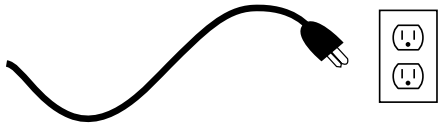
Connect the supplied RF cable from the “OUT (TO TV)” jack on the back panel of the VCR to your television’s “Antenna In” jack.

To TV



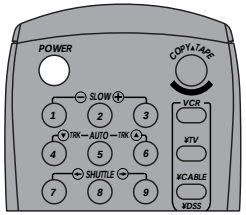
4 Plug In VCR

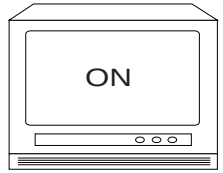
Connect the VCR power cord to a standard 120V/60Hz wall outlet.



5 Turn On TV, VCR & Cable Box

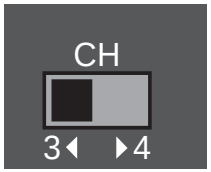
Press the power buttons on the remote control, TV, and Cable Box.





6 Set VCR Output Channel

Set the channel switch on the back panel of the VCR to 3 or 4, whichever is NOT used by your cable box.



7 Tune TV to the Same Channel

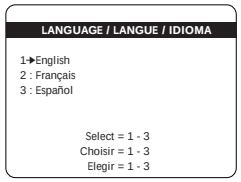
Select the channel you used in step 6.

8 Connection is Complete!

The Set Language menu will appear on your television screen. Please proceed with Auto Setup in Chapter 2.

Notes:

- Use your cable box to select channels.
- If you are not getting a good picture, repeat steps 6 and 7 using the other channel; i.e. channel 4 instead of channel 3.

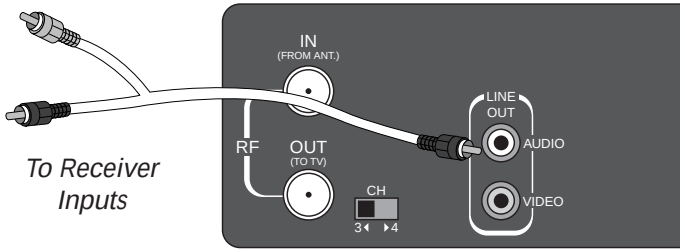


Audio Connections

When connecting the VCR to a stereo system, use a Y-connector in order to direct the mono signal into both line inputs on the back of the stereo.

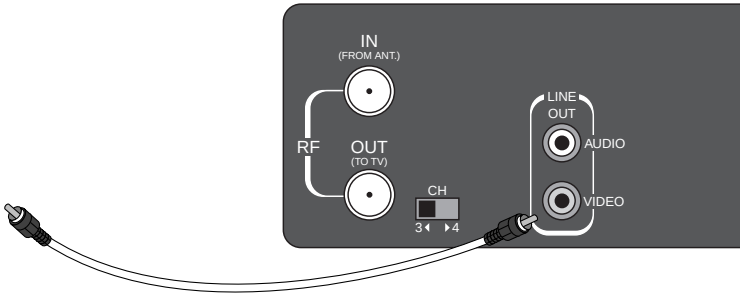
1 Connect VCR to Receiver

Connect RCA cables from the Audio Output on the back of the VCR to the Auxiliary Inputs on your stereo receiver using a Y-connector.



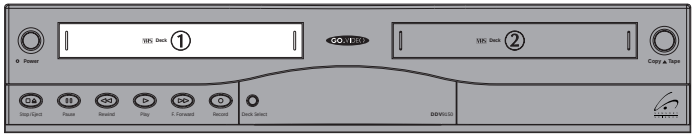
2 Connect VCR to TV

Then connect the Video Output to the television's video input.



3 Play a Tape

Insert a videotape in your VCR and adjust the volume on your stereo receiver or television. You should hear the audio through your stereo speakers!

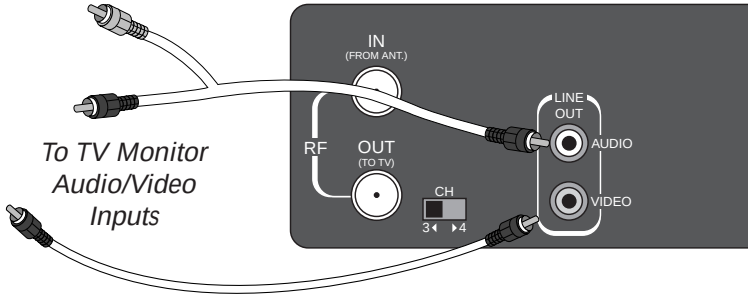


TV Monitor Connections

Monitor-style televisions offer improved sound and picture over regular televisions because they receive the audio and video signals directly from the VCR through the line inputs. Note: A TV monitor is not the same as a computer monitor.

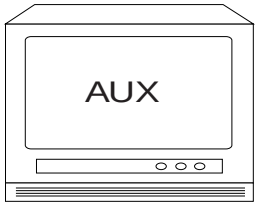
1 Connect VCR to TV Monitor

Connect RCA cables from the Audio and Video Outputs on the back of the VCR to the Audio and Video Inputs on your TV monitor.



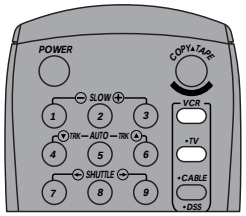
2 Set TV to Auxiliary Mode

Set your TV monitor to “Aux,” “Video,” or “Line.” Refer to your monitor’s owner’s manual for the correct setting.



3 Connection is Complete!

Note: With this connection, the TV and VCR buttons have no effect. It is as if the TV/VCR button on the front panel were always set to VCR.



Connecting Other Video Equipment

You can connect a wide variety of audio/video equipment to your Dual-Deck VCR, including:

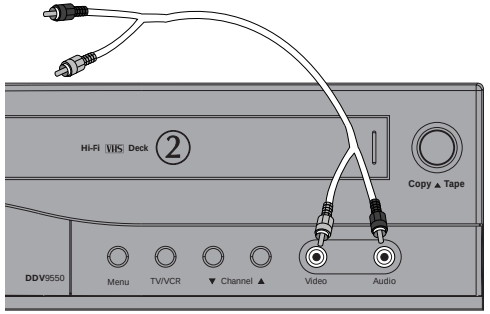
- *A Third VCR*
- *Laser Disc Player*
- *DVD Player*
- *Camcorder*
- *Satellite Receiver*
- *Video Game*

Since all of these devices use essentially the same connections, they will be described together.

1 Connect Device to VCR

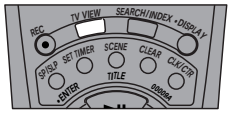
Connect RCA cables from the Audio and Video Outputs of your external device to the Audio and Video Inputs on the front of the VCR.

To Audio/Video Outputs of External Device



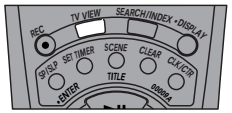
2 Watch Device

Press the TV View button until the playback from Aux (front panel inputs) appears on your TV screen.



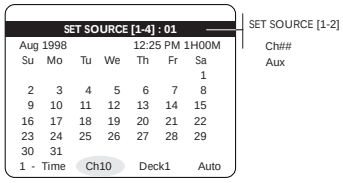
3 Record Device

Press the TV View button until the playback from Aux (front panel inputs) appears on your TV screen, then press Record.



4 Timer Record From Device

Select Aux as your record source in the Timer Record menu. All other Timer Record settings should be set in the usual manner; see page 47.



Multi-Brand Remote Setup

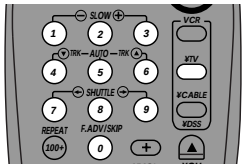
You can program your remote control to operate many popular brands of televisions, cable boxes, and digital satellite systems (DSS).

1 Turn On TV

Press the power button on your TV.

2 Program TV Code

Press and hold down the TV button while entering the 2-digit code for your brand of television from the list at the right.

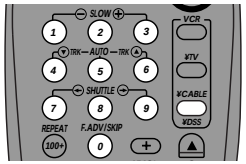


3 Check Your Results

If the TV advances to the next active channel, programming is complete! If the TV does not respond, try another 2-digit code. Some TV's are not listed but can be programmed.

4 Program Cable Box/DSS Code

Press and hold down the Cable/DSS button while entering the 2-digit code for your brand of Cable Box/DSS from the list on the next page.



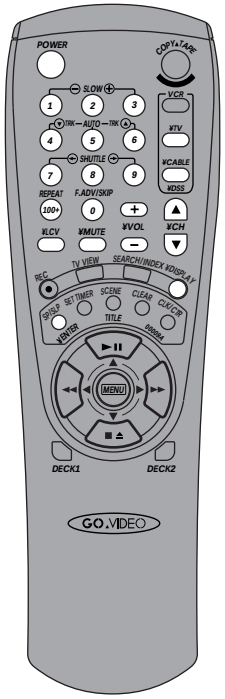
5 Check Your Results

If the Cable Box/DSS receiver advances to the next active channel, programming is complete! If not, try another 2-digit code. Some devices are not listed but can be programmed.

TV CODES

Samsung (old)	TV + 01
Sharp (new)	TV + 02
Sony	TV + 03
Magnavox	TV + 04
Sanyo	TV + 05
Goldstar (new)	TV + 06
RCA/GE	TV + 07
Goldstar (old)	TV + 08
Toshiba	TV + 09
Hitachi	TV + 10
JVC	TV + 11
Panasonic	TV + 12
Mitsubishi	TV + 13
Samsung (new)	TV + 14
Samsung (Latin)	TV + 15
Sharp (old)	TV + 16
Zenith	TV + 17
Goldstar	TV + 18
Daewoo	TV + 19
Sanyo (PAL)	TV + 20
Emerson	TV + 21
Sharp (PAL)	TV + 22
Samsung (Latin)	TV + 23
Panasonic 2	TV + 24

Multi-Brand Remote Operation



TV/Cable/DSS Keys

6 Operate Your TV, Cable Box, or DSS

- Press TV to set the remote control to operate your TV.
- Press Cable/DSS to set the remote to operate your Cable Box or DSS receiver.
- See the remote control diagram at left to see which keys are available in TV or Cable/DSS mode.

Notes:

- When the remote control is in TV or Cable/DSS mode, it will NOT operate your VCR. To return to VCR mode, press VCR on the remote control.
- Not all keys will function for all devices.

CABLE BOX/DSS CODES

Cable Box/DSS Brand	2-Digit Code
Anvision	13,20,21,22,23,24,25,26,58,62
Archer	29,42,44
Cablestar	13,20,21,22,23,24,25,26,58,62
Cableview	42,44
Citizen	42,44
Curtis	08,09,56,61
Diamond	29,44
Eagle	13,20,21,22,23,24,25,26,58,62
Eastern	28
GC Brand	42,44
Gemini	04,30
General Instruments	01,02,03,04,55,75,85
Hamlin	14,15
Hitachi	31,79,80
Jerold	01,02,03,04,55,75,83,85
Macom	31,79,80
Magnavox	13,20,21,22,23,24,25,26,58,62
Movietime	32,38,39
NSC	38,39
Oak	10,11,12,13,46
Oak Sigma	46
Panasonic	06,08,16,17
Philips	13,20,21,22,23,24,25,26,58,62
Pioneer	05,06
Pulser	43,44
Randtek	13,20,21,22,23,24,25,26,58,62
RCA	06,08,16,17
Regal	14,23,41
Rembrandt	32
Samsung	04,06,42,44,78,86
Scientific Atlanta	08,09,61,56
Sheritech	26,27,28
SL Mark	04,06,42,78
Sprucer	06,08,16,17
Stargate	04,06,42,44,78
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Teleview	04,06,42,78
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TOCOM	33,34,48,49,73
Toshiba	36
Unika	20,21,29,42,44
Universal	43,52,63,82
Videoway	07,45,50,59
Viewstar	13,20,21,22,23,24,25,26,58,62
Warner Amex	06
Zenith	07,45,50,59

Frequently Asked Questions (FAQs)

The following are some of the most frequently asked questions about our Dual-Deck VCRs. If you don't find the answers you need here, you can contact our Customer Service Department by phone at (480) 922-0896. Office hours are Monday-Friday, 6:00 a.m. to 7:00 p.m. and 8:00 a.m. to 4:00 p.m. MST on Saturday. You can also contact us anytime at our e-mail address: "custsvc@sensoryscience.com." Or refer to a listing of authorized Go-Video service centers on our Web site at "www.govideo.com."

Why am I not getting a picture?

- Make sure the TV/VCR button on the front panel is set to VCR (the VCR icon on the front panel display should be on).
- Make sure your TV is set to the same channel (3 or 4) as the switch on the back of your VCR.

Why is the picture quality poor?

- Change the channel switch on the back of the VCR, i.e. if it's set to 3 change it to 4. Make sure your TV is set to the same channel.
- If the picture is bad while playing a tape, try adjusting the tracking control. Press the Auto (Automatic Tracking) button or the manual Tracking ▲ / ▼ keys on the remote control.
- The video heads may be dirty; try cleaning the heads with a nonabrasive head cleaning tape.

Why can't I record from my cable box?

Make sure the VCR is tuned to the cable box output channel (2, 3, or 4). Confirm this channel with your local cable provider.

Why can't I Timer Record?

- Make sure the clock is set to the correct time, and the AM/PM adjustment is set correctly.
- If you have a cable box, make sure the Record Source is set to the cable box output channel (2, 3, or 4), and that the cable box is set to the channel you wish to record.

Why isn't my remote control working?

- Make sure you are pointing the remote control directly at the VCR and that there are no obstacles between the remote control and VCR. Sunlight on the VCR front panel can sometimes interfere with the remote signal.
- Make sure the batteries in your remote are fresh and installed properly.
- The "TV" button may have been pressed by accident. This makes the remote control only operate the television. Press the VCR key on the remote and try again.

Why do my tapes record at different speeds when I use Copy Tape?

Because Speed Matching is off in the Copy & Record Settings menu. Turn Speed Matching on to guarantee that the recording speed of the copy will match the playback speed of the source tape.

Why does the tape eject when I use Copy Tape or put a tape in to record?

Make sure the record safety tab has not been removed from your tape. If the tab is missing, you can place a small piece of tape over the opening.

Why does the tape sometimes play or rewind when I don't want it to?

- Turn Auto Play/Rewind off in the Dual-Deck Features menu. When this feature is turned on, the VCR will automatically play tapes whenever you load them and/or rewind tapes when they reach the end.
- Turn EZ-Copy off in the Copy and Record Settings menu. When EZ-Copy is turned on, both decks will automatically rewind before recording when you press Copy Tape.

Why does my on-screen display show “Error”?

This indicates a problem with the VCR tape mechanism. Turn the power off and on again to reset. If this does not clear the error, unplug the VCR from the power outlet and inspect both tape slots for foreign objects, or for jammed or crooked tapes.

Why can’t I eject a tape using my remote?

- Make sure Remote Eject is turned on in the Dual-Deck Features menu.
- If you have programmed scenes for editing in the 8-Scene Edit List, you cannot eject the tape in Deck 1 with the remote control. This protects you from losing your scene programming. You can either clear the scenes from the Edit List or press Stop/Eject on the front panel, which erases the scenes automatically.

Why can’t I reset the Deck 1 tape counter?

If you have programmed scenes for editing in the 8-Scene Edit List, you cannot reset the Deck 1 tape counter. This protects you from losing your scene programming. You can either clear the scenes from the Edit List or press Stop/Eject on the front panel, which erases the scenes automatically.

Why doesn’t my VCR work?

- A strong static electricity shock or other unforeseen circumstances may cause the control system of your Dual-Deck VCR to lock up. To reset the control system, first unplug the power cord from the wall outlet for 10 seconds and plug it in again.
- If this doesn’t restore all operations to normal, unplug the VCR again for 15 minutes. You will then need to reset the clock (if the clock is still set, you haven’t unplugged it long enough).
- If these steps do not correct the problem, the Dual-Deck VCR must be serviced by an authorized service center.

Why can't I bring up the 8-Scene Edit List?

- Insert a tape in Deck 1. The VCR must have a tape in Deck 1 for the Edit List to appear.
- Edit List is not available during Copy Tape.

Why aren't the tape counters moving?

If the VCR is playing a blank section of tape (only video noise, or "snow" appears on-screen), the tape counter cannot operate. The VCR requires a control track, which is only present on recorded tape, to provide counter information.

Why can't I get a menu or an on-screen display?

- If the VCR is playing a blank section of tape (only video noise, or "snow" appears on-screen), the VCR cannot produce on-screen menus or displays. Stop the tape or record on it to enable the displays.
- The remote may be set to control the TV instead of the VCR. Press the VCR button on your remote to reactivate it.
- If the Date/Time Stamp is set to Cont (Continuous) and a recording is in progress, the on-screen menus and displays are disabled. Press Stop on the recording deck to restore normal on-screen functions.

Why do I get a blue screen?

- If a channel is too weak to deliver a clear picture, the VCR will display a blue screen in its place. To see channels with poor reception, turn on the Show Weak Channels feature in the Tuner and Channel List menu.
- Double-check your antenna connections or tuner settings.

Why is my Power button blinking?

The VCR is in Auto Power Off mode. If you press the Power button while rewinding, copying, Timer Recording, One-Touch Recording or using EZ-Copy, the VCR will automatically turn off when the function is completed. Pressing the Power button toggles Auto Power On and Off.

Why is “Copy Tape” blinking on the front panel?

The Copy Tape procedure is in Pause mode. See Sync Editing on page 68.

Why won’t my remote operate all my TV functions?

The remote control does not have a command for every function of your television. Some brands of television will only respond to a limited number of functions. See the table on page 88 for a list of common brands and functions.

Technical Specifications

VIDEO SYSTEM	1/2-inch VHS system, 4 rotary head helical scanning; FM azimuth luminance; chrominance: converted sub system phase shift
TELEVISION SYSTEM	NTSC-type color signal EIA standard (525 lines, 60 fields)
AUDIO TRACK	Normal: 1 track
TAPE WIDTH	12.7 mm, 1/2 inch
TAPE SPEED	SP: 33.35 mm/s; SLP: 11.12 mm/s
PLAY/RECORD TIME	T-180 tape: SP 3 hours, SLP 9 hours
FF/REW TIME	T-120 tape: REW 100 seconds, FF 120 seconds.
HEADS	
Video:	DA 4 rotary heads
Audio:	1 stationary head (Linear)
Control:	1 stationary head
Erase:	1 full track, 1 audio track
VIDEO	
Input:	RCA Type, 75 ohms unbalanced, 1 V P-P
Output:	RCA Type, 75 ohms unbalanced, 1 V P-P
Horiz Res:	Monochrome, more than 230 lines
S/N Ratio:	Better than 43 dB
AUDIO	
Input:	AUDIO IN (RCA) -8 dbm, 47K ohms
Output:	AUDIO OUT (RCA) -8 dbm, 1.5K ohm
TV Tuner:	181 channel frequency synthesized. VHF input Ch 2 - Ch 13. UHF input Ch 14 - Ch 69. VHF & UHF one input. Cable Ch 5A, A-5 through A-1, A-I, J through W+58, W+59 through W+84. 75 ohm unbalanced F-type connector.
RF MODULATION	Channel 3 or 4
POWER REQUIREMENT	120V AC, 60 Hz, 26 watts maximum
CLOCK BACKUP TIME	1 minute
ENVIRONMENT	41-104 F (5-40 C); 10%-75% humidity
DIMENSIONS	21" x 4" x 13" (534 x 105 x 331 mm)
WEIGHT	17 lbs. (7.5 Kg)

Dual-Deck VCR Limited Warranty

Who Provides the Limited Warranty

During the warranty period, the Go-Video Warranty Administrator will honor Dual-Deck 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. Dual-Deck VCR remote controls are 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.

Other Warranty Coverage

Commercial, Industrial or Educational use has the same warranty coverage as stated in this warranty.

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 set-up 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
Sensory Science Corp.
7835 East McClain Drive • Scottsdale, Arizona 85260-1732
(480) 922-0896 • custsvc@sensoryscience.com

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