DUAL-DECK VCR

DDV2120

USER'S GUIDE

SSC.2120.050301

- Flying Erase Heads
- Quasi S-VHS Playback
- Jog/Shuttle Remote

VCR Plus+® 3 CABLE BOX CONTROL

COMMERCIAL ADVANCE®

MOVIE ADVANCE®

COMMERCIAL FREE COPY

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WELCOME

Congratulations...

...on your purchase of this Sensory Science Dual-Deck VCR!

We know you will enjoy this product for many years to come. In case warranty service is required, please take a moment to attach your receipt to this manual and write down your **Serial Number** (located on the back panel of the VCR): _____ .

About this Manual

This manual has been designed to acquaint you with all the features and functionality of the Dual-Deck VCR. The first two chapters cover basic setup and a quick tour of the components of the Dual-Deck system. Chapters 3-10 present in detail each major Dual-Deck function—from playing tapes to Commercial Free Copy—so you can jump in anywhere that interests you. The three Appendices cover advanced connections, manual setup, and help, respectively. For your reference, a "Menu Tree" is also included on the inside back cover. Enjoy the Dual-Deck experience!

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.

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.

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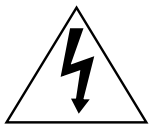

This symbol is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute risk of fire or electric shock.

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

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

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

FOLLOW INSTRUCTIONS
All operating and maintenance instructions should be followed.

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.

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

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.

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.

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.

PORTABLE CART WARNING
(Symbol provided by RETAC)

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.

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.

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.

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.

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

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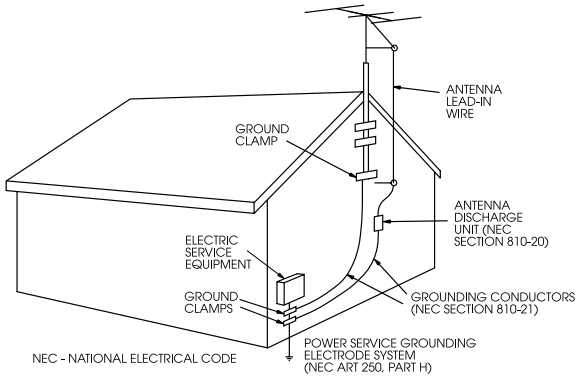
Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See figure below.



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.

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.

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

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.

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.

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.

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.

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.

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

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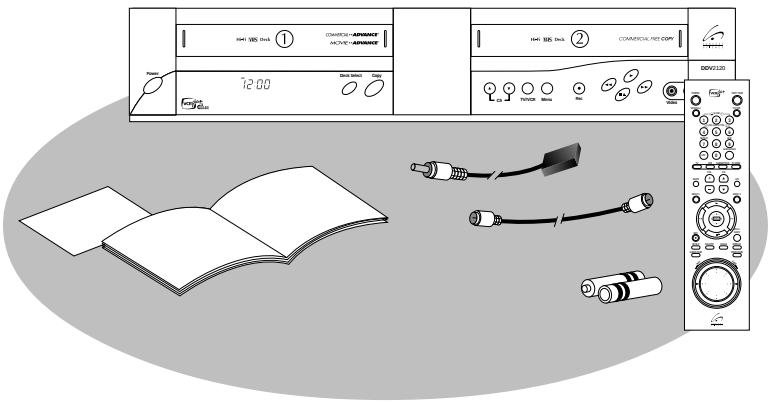
1 GETTING STARTED

This Chapter will guide you through initial setup of your Dual-Deck VCR, including basic connections, Auto Setup, and remote programming.

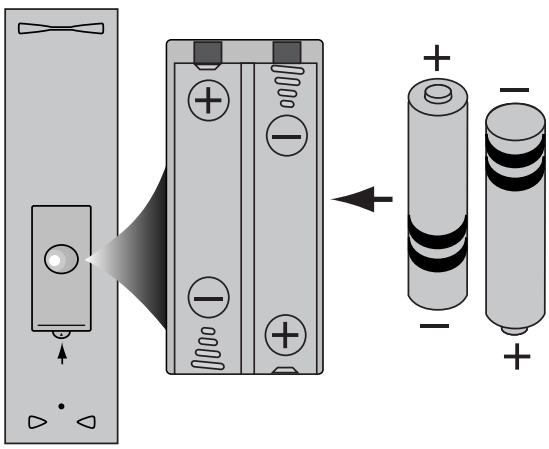
UNPACKING

Before you begin, please check that all items are included in your Dual-Deck VCR box, then insert the enclosed batteries in the remote control.



1 CHECK PACKING LIST

- Dual-Deck VCR
- Remote Control
- Two (2) “AA” Batteries
- Coaxial Cable
- Cable Mouse
- User’s Guide
- Warranty Registration Card



2 INSERT BATTERIES

a. Remove the battery cover from the back of the remote control as shown.

b. Insert two “AA” batteries, paying attention to observe the correct polarities (+/–).

c. Replace the cover.

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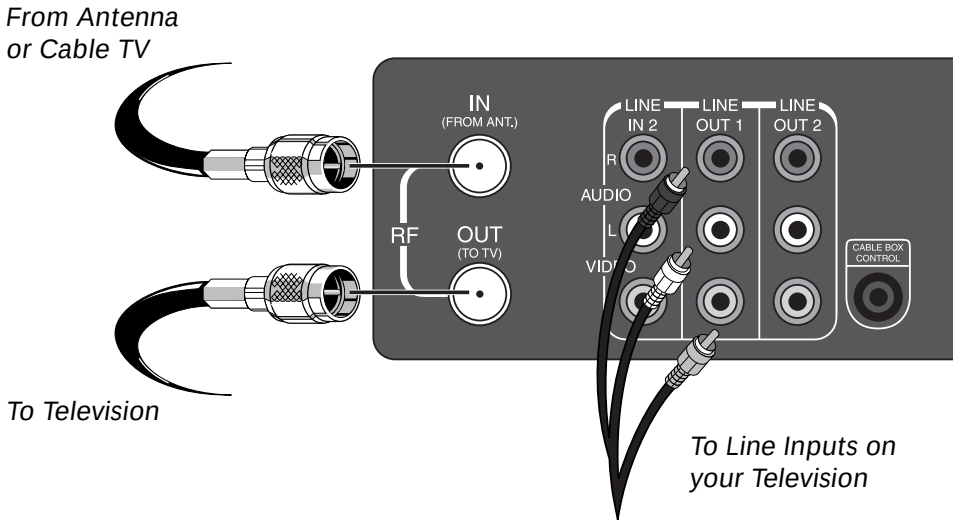
Follow these steps to connect the Dual-Deck VCR to your television and antenna/cable TV.



1 CONNECT ANTENNA/CABLE TV

Connect the coaxial cable from your indoor/outdoor antenna or cable TV outlet/cable box to the "IN (FROM ANT.)" jack on the VCR back panel.

2 CONNECT VCR TO TV

Standard RF Option

Connect the supplied cable (coaxial) from the "OUT (TO TV)" jack on the VCR back panel to your television's antenna in jack. Use this connection if your television is equipped with a basic antenna input.

OR

Composite Video Option

Connect a standard RCA cable from the "Line Out 1" jacks on the VCR back panel to your television's Line In jacks. Be sure to match yellow to video, red to right audio and white to left audio on your television and VCR. Use this connection for better sound and picture quality if your television is equipped with line inputs.

3 PLUG IN VCR

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

4 TURN ON TV, VCR, CABLE BOX

Press POWER on your television, VCR and/or Cable Box.

5 SET TELEVISION CHANNEL

Channel 3

If you chose the Standard RF Option, set your television to channel 3. If you experience interference on channel 3, you may use channel 4 instead; however, you must first run Auto Setup with channel 3, then follow the instructions on page 36 to reset the RF Output to channel 4.

OR

Video In

If you chose the Composite Video Option, set your television to display its Video Input, often labeled "Video," "Line," or "Aux." See your television owner's manual for the correct setting.

6 CONNECTION COMPLETE!

The "Language/Langue" menu should appear on your television screen. Please proceed with Auto Setup on the following page.

NOTES

- For Advanced Connections, please refer to pages 36-48.
- For Cable Box Control setup, see pages 37-38.

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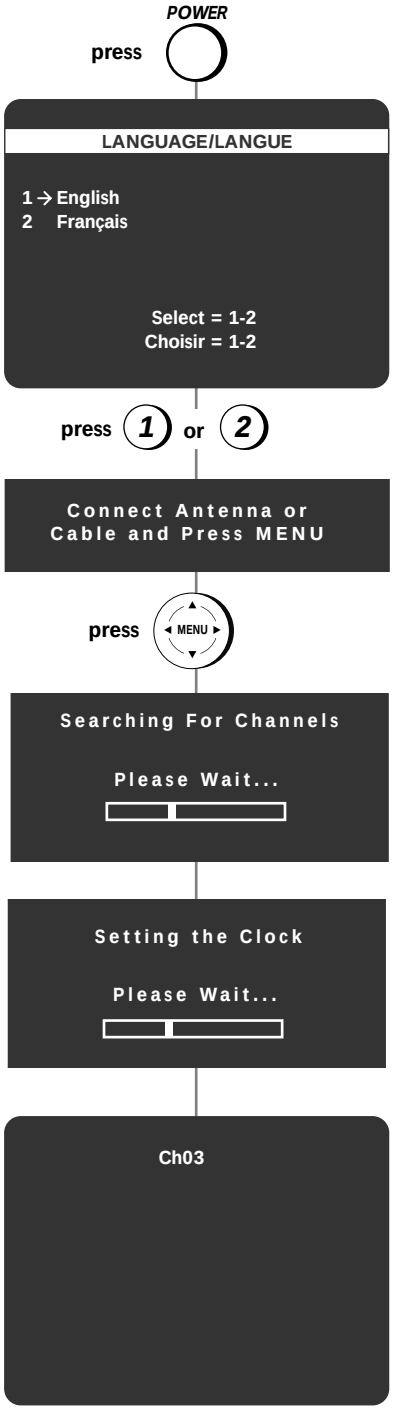
Follow these steps to run Auto Setup, which will set the clock and save local channels automatically.



1 SET MENU LANGUAGE

The first time you turn on your Dual-Deck VCR, you will be prompted to set the menu language. Press 1 for English or 2 for French.

2 CONFIRM ANTENNA/CABLE CONNECTION

If you have not already done so, make sure you have connected an antenna or basic cable to the "IN (FROM ANT.)" jack on the VCR back panel. Press MENU to continue.

3 RUN AUTO SETUP

As soon as you press MENU, the Dual-Deck VCR will automatically perform the following steps:

Auto Channel Search – Automatically detects the source of incoming channels (antenna or cable) and then searches for all active channels in your area.

Auto Clock Set – Automatically sets the VCR's internal clock, which is necessary for accurate timer recording.

- This procedure may take a few minutes to complete. When finished, the VCR will display the lowest channel found.
- If you wish, you can now program your remote control to control your television; see page 4. Or you can proceed with Chapter 2 for a Quick Tour of the Dual-Deck system.

NOTES

- If no channels were found in your area, the VCR will alert you and then display the "Channel Settings" menu; see page 48.
- If Auto Setup was unable to detect the time, the VCR will alert you and then display the Manual Clock Set menu; see page 46.

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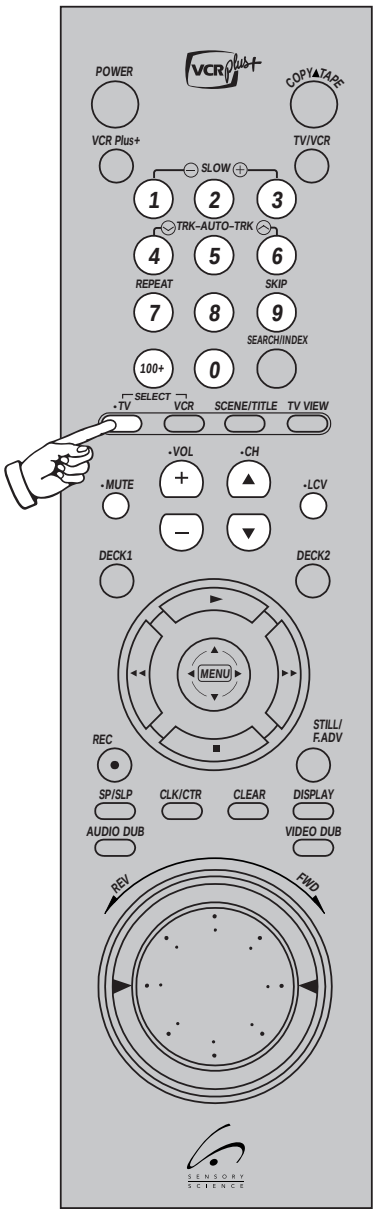
Follow these steps to program the remote control to operate many brands of television.



Pressing the TV key puts the remote control in TV mode. Some or all of the highlighted keys will be able to control your television.

1 TURN ON TELEVISION

Press POWER on your television.

2 ENTER CODE

Press and hold the TV key on the VCR remote control while entering the 2-digit code for your brand of television with the 0-9 keys (see table below). If there is more than one code for your brand of television, try them all until one works.

BRAND	CODE(S)
Daewoo	TV + 19
Emerson	TV + 21
Hitachi	TV + 10
JVC	TV + 11
LG	TV + 08, 18
LG (Goldstar)	TV + 06
Loewe	TV + 28
Magnavox	TV + 04
Mitsubishi	TV + 13
Newsan (S. America)	TV + 27
Noblex (S.America)	TV + 25
Panasonic	TV + 12, 24
RCA	TV + 07, 29
Samsung	TV + 01, 14, 15, 23
Sanyo	TV + 05, 20
Sharp	TV + 02, 16, 22
Sony	TV + 03
Telefunken	TV + 26
Toshiba	TV + 09
Zenith	TV + 17

3 CHECK YOUR RESULTS

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

4 OPERATE YOUR TELEVISION

When you want to control your television, press the TV key , then try any of the keys shown in the drawing at left.

- When the remote control is in TV mode, it WILL NOT operate your VCR.
- To restore VCR mode, press the VCR key.

NOTE

- When the remote is in TV mode, it WILL NOT operate the VCR. Press VCR to restore normal VCR functionality.

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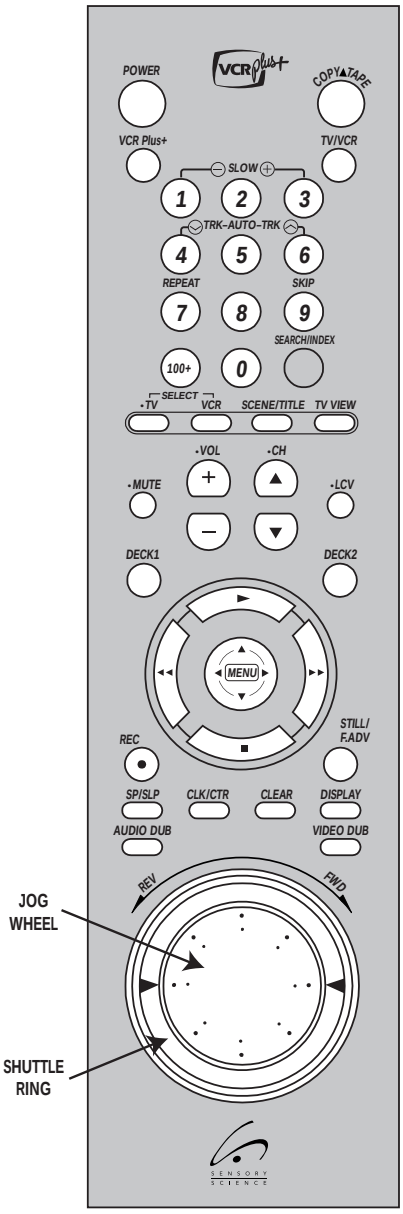
2 QUICK TOUR

This Chapter provides an overview of the Remote Control, Front Panel, Front Panel Display and On-Screen Display.

The following is an overview of the Dual-Deck VCR remote control. The keys are listed in alphabetical order.



0-9
While watching TV, press to select channels. While in the menu system, press to select menu items.

100+
Press to select cable channels 100 and above.

AUDIO DUB
While a recording is paused, press to begin dubbing a new audio track (see page 25).

CH ▲▼
Press to select the next or previous channel.

COPY TAPE
Press to copy the tape in Deck 1 to the tape in Deck 2 (see page 10).

CLEAR
Press to reset the Tape Counter to zero (0:00:00). Also press to clear entries in the menu system.

CLK/CTR
Press to change the Front Panel Display to the clock, tape counter, or time remaining on the tape.

DECK 1
Press to make Deck 1 active. All deck control keys (PLAY ►, REWIND ◄◄, etc.) will only affect Deck 1.

DECK 2
Press to make Deck 2 active. All deck control keys (PLAY ►, REWIND ◄◄, etc.) will only affect Deck 2.

DISPLAY
Press to turn the On-Screen Display on and off.

FAST-FORWARD ►►
While the VCR is stopped, press to fast-forward the tape in the active deck. While a tape is playing, press to visually search forward (Cue). In the menu system, press to make selections.

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JOG WHEEL
While a tape is paused, rotate the Jog Wheel forward or backward to advance or rewind the tape one frame at a time.

LCV
While watching TV, press to display the last channel viewed.

MENU
Press to display the VCR's Main Menu.

MUTE
Press to turn the sound on and off.

PLAY ►
Press to play the tape in the active deck. In the menu system, press to move the blinking selection arrow up.

POWER
Press to power the VCR on and off.

REC
Press to start recording in the active deck. Press repeatedly to add recording time in 30-minute increments (see One Touch Recording, page 14).

REPEAT
While a tape is playing, press to replay the last 30 seconds.

REWIND ◄◄
While the VCR is stopped, press to rewind the tape in the active deck. While a tape is playing, press to visually search backward (Review). In the menu system, press to return to the previous menu.

SCENE/TITLE
While in the 8-Scene Editor, press to mark the beginning and ending points of scenes (see page 23). While recording, press to superimpose On-Screen Titles (see page 27).

SEARCH/INDEX
While the VCR is in Stop, Play, Fast-Forward, or Rewind, press to display the Search/Index Menu (see page 33). While a tape is recording, places an Index mark on the tape (see page 32).

SHUTTLE RING
While a tape is playing, rotate the Shuttle Ring forward or backward to gradually increase or decrease the playback speed.

SKIP
While a tape is playing, press 1-5 times to skip ahead 1 minute at a time (up to 5 minutes). While the VCR is copying, press 1-5 times to skip edit (remove) the next 1-5 minutes (see page 24).

SLOW –/+
While a tape is playing, press to play the tape in slow motion at variable speeds.

SP/SLP
Press to set the record speed to SP (Standard Play) or SLP (Super Long Play). SLP is three times longer than SP.

STILL/F.ADV
While a tape is playing or recording, press to pause the tape in the active deck. While a tape is paused, press repeatedly to advance the tape one frame at a time.

STOP/EJECT ■
Press to stop the tape in the active deck. Press twice to eject the tape. In the menu system, press to move the blinking selection arrow down.

TRK ﹀﹀ – AUTO
While a tape is playing, press to manually adjust tracking (white lines on the screen). Press AUTO to resume automatic tracking.

TV
Press to set the remote to operate your television. Note: When selected, the keys on the remote will not operate the VCR.

TV/VCR
Your TV and your VCR both have television tuners. This allows you to watch one show with the TV tuner while recording another show with the VCR tuner. Press the TV/VCR key to switch back and forth between the TV tuner and the VCR tuner.

TV VIEW
Press to change the view on your television among all the Dual-Deck VCR input sources: Tuner, Deck 1, Deck 2, Line 1, and Line 2. This allows you to record a show in Deck 1 and watch another tape in Deck 2.

VCR
Press to set the remote to operate your VCR.

VCR PLUS+
Press to open the VCR Plus+ programming menu (see page 21).

VIDEO DUB
While a recording is paused, press to begin dubbing a new video track (see page 15).

VOLUME +/–
Press to adjust the volume.

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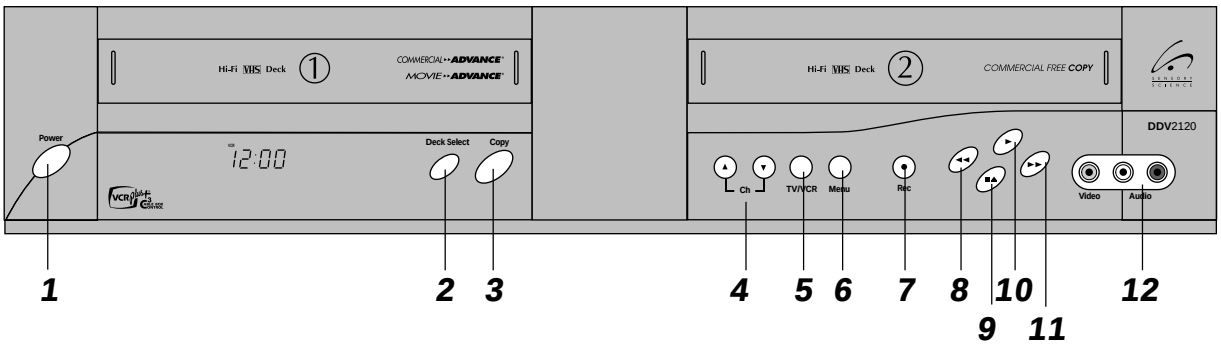
The following is an overview of the Dual-Deck VCR front panel.



1 POWER

Press to power the VCR on and off.

2 DECK SELECT

Press to switch control between Deck 1 and Deck 2.

3 COPY TAPE

Press to copy the tape in Deck 1 to the tape in Deck 2 (see page 10).

4 CH▲▼

Press to select the next or previous channel.

5 TV/VCR

Press to switch back and forth between the TV tuner and the VCR tuner.

6 MENU

Press to display the VCR's Main Menu.

7 REC

Press to start recording in the active deck. Press repeatedly to add recording time in 30-minute increments (see page 14).

8 REWIND ◂◂

While the VCR is stopped, press to rewind the tape in the active deck. While a tape is playing, press to visually search backward (Review). In the menu system, press to return to the previous menu.

9 STOP/EJECT ■≙

Press once to stop the tape in the active deck, or press twice to eject the tape. In the menu system, press to move the blinking selection arrow down.

10 PLAY ►

Press to play the tape in the active deck. While a tape is playing or recording, press to pause the tape in the active deck. In the menu system, press to move the blinking selection arrow up.

11 FAST-FORWARD ▸▸

While the VCR is stopped, press to fast-forward the tape in the active deck. While a tape is playing, press to visually search forward (Cue). In the menu system, press to make selections.

12 FRONT AUDIO/VIDEO INPUT (LINE 1)

Connect to the composite video (yellow) and stereo audio outputs (white and red) of an external component, such as a camcorder or videogame, using RCA cables. Use the white input for mono sources.

NOTE

- **Line Input Labels** - Throughout the menu system, the front audio/video input is referred to as "Line 1" (or "L1"), and the rear audio/video input is referred to as Line 2 (or "L2"). To change these labels to match the components you have connected, see page 43.

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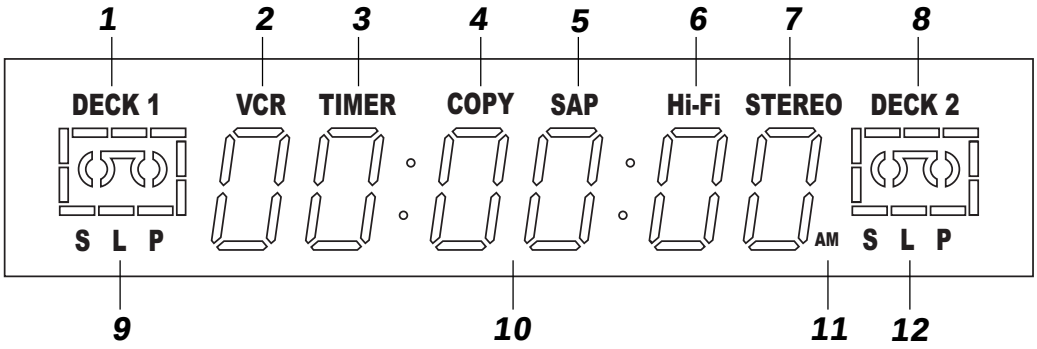
The following is an overview of the front panel display.



1 DECK 1 STATUS INDICATOR

Lights to show you that Deck 1 is active. Also, graphically displays the status of the tape in Deck 1; e.g., Stop, Play, Rewind, etc.

2 TV/VCR INDICATOR

Lights when the Dual-Deck is in VCR mode, turns off when the Dual-Deck is in TV mode, as set by the TV/VCR key.

3 TIMER INDICATOR

Lights to show you that a Timer Recording has been programmed and stored in memory. Blinks if there is a Timer Recording error.

4 COPY INDICATOR

Lights to show you that a tape is being copied.

5 SAP INDICATOR

Lights when a Second Audio Program, usually a second language, is available for the current TV channel.

6 Hi-Fi INDICATOR

Lights when a tape is playing a Hi-Fi stereo soundtrack.

7 STEREO INDICATOR

Lights when the channel you are watching is broadcast in stereo.

8 DECK 2 STATUS INDICATOR

Lights to show you that Deck 2 is active. Also, graphically displays the status of the tape in Deck 2; e.g., Stop, Play, Rewind, etc.

9 DECK 1 PLAY/RECORD SPEED

Shows you the current playback (SP, LP, or SLP) or record speed (SP or SLP) for Deck 1.

10 CLOCK/TAPE COUNTER

Shows you the current time, the tape counter position, or the time remaining until the end of the tape in the active deck, as set by the CLK/CTR key. Also briefly displays the status of the active deck when you press a deck control key; e.g., STOP ■, PLAY ►, REWIND ◄◄, etc.

11 AM/PM INDICATOR

Lights when the time is A.M., turns off when the time is P.M.

12 DECK 2 PLAY/RECORD SPEED

Shows you the current playback (SP, LP, or SLP) or record speed (SP or SLP) for Deck 2.

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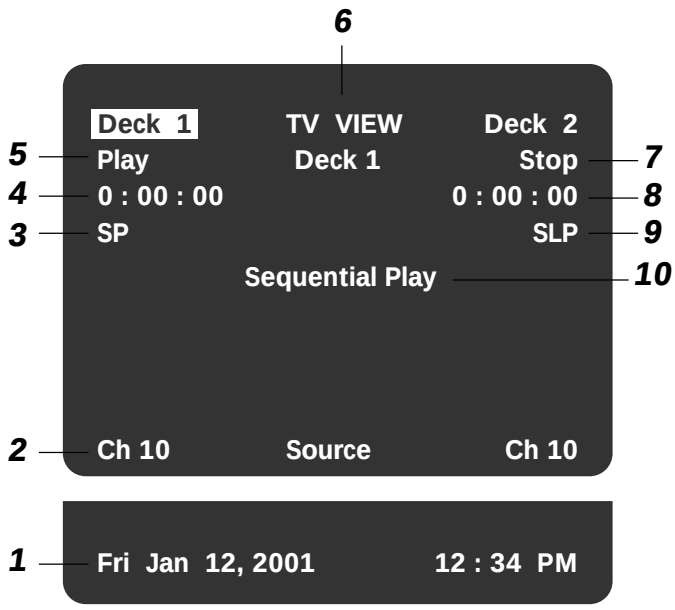
The following is an overview of the On-Screen Display (OSD).



1 DATE AND TIME

When the TV View is set to Channel, Line 1, or Line 2, the date and time are displayed at the bottom of the screen.

2 RECORD SOURCE

When the TV View is set to Deck 1 or Deck 2, the Deck 1 and Deck 2 record source are displayed at the bottom of the screen.

3 DECK 1 PLAY/RECORD SPEED

Shows you the current playback (SP, LP, or SLP) or record speed (SP or SLP) for Deck 1.

4 DECK 1 COUNTER POSITION

Shows you the current tape counter position or time remaining on the tape in Deck 1, as set by the CLK/CTR key.

5 DECK 1 STATUS

Shows you the status of the tape in Deck 1; e.g., Stop, Play, Rewind, Fast-Forward, etc.

6 TV VIEW

Shows you the input source you are currently watching (Channel, Deck 1, Deck 2, Line 1, or Line 2).

7 DECK 2 STATUS

Shows you the status of the tape in Deck 2; e.g., Stop, Play, Rewind, Fast-Forward, etc.

8 DECK 2 COUNTER POSITION

Shows you the current tape counter position or time remaining on the tape in Deck 2, as set by the CLK/CTR key.

9 DECK 2 PLAY/RECORD SPEED

Shows you the current playback (SP, LP, or SLP) or record speed (SP or SLP) for Deck 2.

10 DISPLAY MESSAGES

The On-Screen Display often displays feedback on the status of your Dual-Deck, including Copy messages, Timer Recording error messages, etc.

NOTE

- Press DISPLAY to manually turn the OSD on and off.

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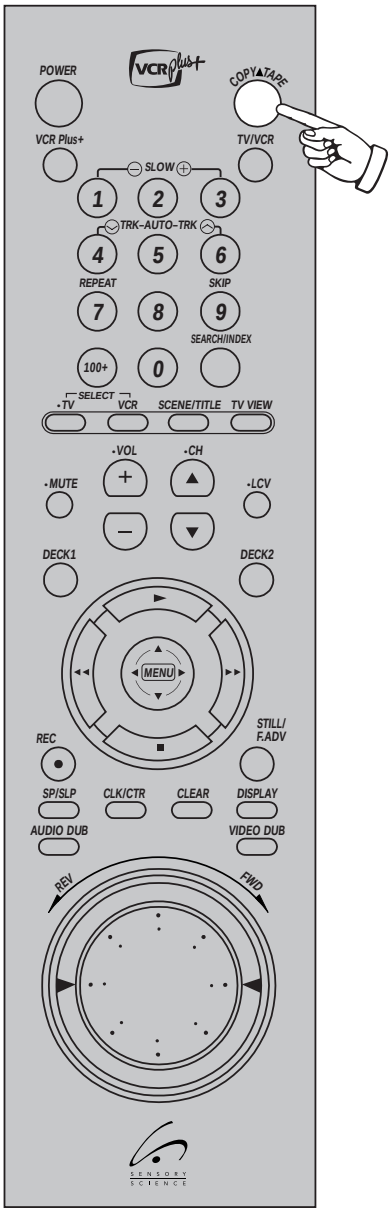
3 COPY

This Chapter will show you how to copy tapes with your Dual-Deck VCR.
To set up the Commercial Free Copy feature, please see Chapter 9.

Follow these steps to copy a tape from Deck 1 to Deck 2.



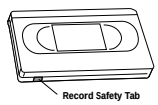
1 INSERT SOURCE TAPE

Insert the tape you want to copy in Deck 1.

2 INSERT TARGET TAPE

Insert the tape you want to copy to in Deck 2.

- Make sure the tape has a record safety tab or it will eject when you press COPY TAPE.



3 COPY YOUR TAPE

Press COPY TAPE.

- The "Copy" indicator will light on the front panel display and the VCR will begin copying from Deck 1 to Deck 2.

4 OPTIONS WHILE COPYING

- To pause, press COPY TAPE. The "Copy" indicator will blink on the front panel display.
- While paused you can reposition the source tape in Deck 1; e.g., to fast-forward over a commercial; see page 24.
- To resume copying, press COPY TAPE again.
- To stop copying, select Deck 2, then press STOP ■⏏.

NOTES

- The Dual-Deck VCR cannot duplicate copy-protected tapes. If you try to copy a protected tape, the message "Tape is Copy Protected" will appear on the on-screen display.
- If you want to copy an entire tape, try the EZ Copy feature. The VCR will automatically rewind both tapes before and after copying and eject both tapes when finished; see page 11.

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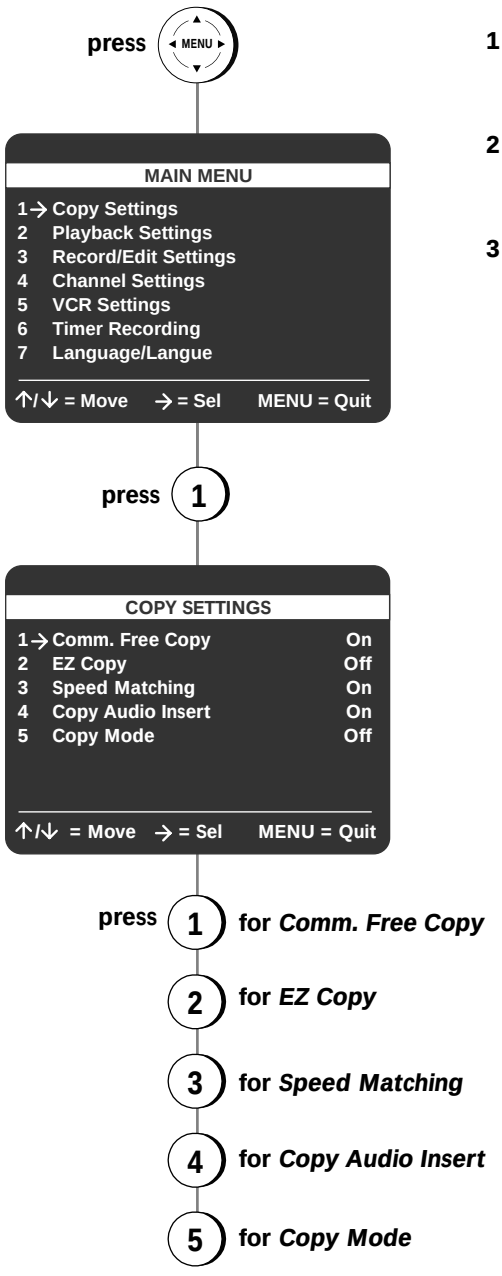
Follow these steps to set the default Copy Settings for your Dual-Deck VCR.



1 OPEN MAIN MENU

Press MENU.

2 SELECT "COPY SETTINGS"

Press 1.

3 ADJUST COPY SETTINGS

Press 1, 2, 3, 4, or 5 to set each of the following:

1 - Comm. Free Copy

Please refer to page 31.

2 - EZ Copy

On – Turns EZ Copy on. When you press COPY TAPE, the VCR will automatically rewind both decks, copy the tape in Deck 1 to Deck 2, rewind both decks again, and eject the tapes. Plus, EZ Copy adjusts the record speed to avoid running out of tape before copying is complete; see note on "Complete Program Record" below.

Off – Turns EZ Copy off.

3 - Speed Matching

On – Automatically sets the Deck 2 record speed to match the Deck 1 playback speed (recommended for best copy quality).

Off – Allows the Deck 2 record speed to be set independently of the Deck 1 playback speed. Turn Speed Matching off only if you want to record two or more SP tapes onto one SLP tape. You must set the Deck 2 record speed to SLP manually; see page 14.

Auto – Automatically adjusts the Deck 2 record speed to avoid running out of tape before copying is complete; see note on "Complete Program Record" below.

4 - Copy Audio Insert

Please refer to page 26.

5 - Copy Mode

HQ1 – Sets the VCR to copy in High Quality 1 mode, the best choice if your source tape is recorded in SP (Standard Play).

HQ2 – Sets the VCR to copy in High Quality 2 mode, the best choice if your source tape is recorded in LP (Long Play) or SLP (Super Long Play).

Auto – Chooses HQ1 or HQ2 automatically.

NOTES

- **Complete Program Record** (CPR) changes the copy speed from SP to SLP if necessary to reduce the risk of running out of tape before copying is complete.
- **EZ Copy**: If the tape runs out in Deck 2 before copying is complete, neither tape will rewind to alert you that a problem occurred.

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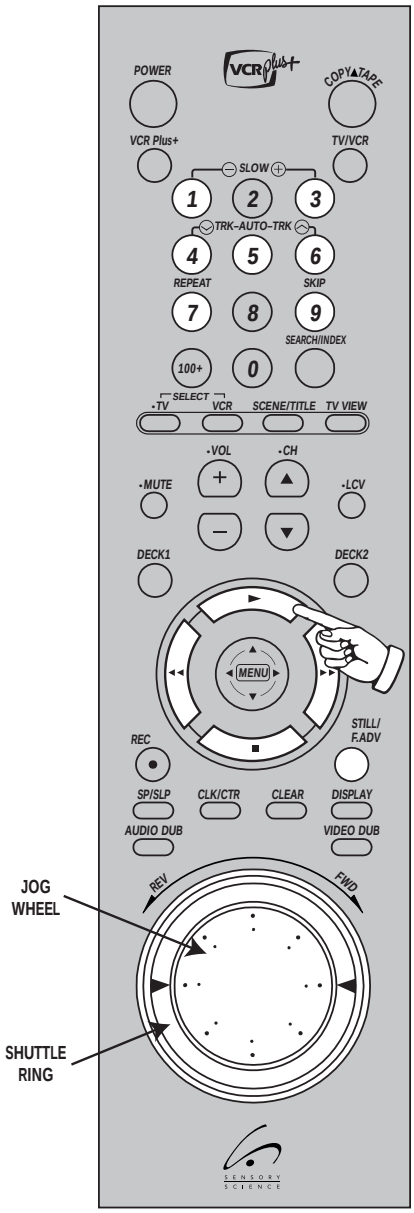
4 PLAY

This Chapter will show you how to play videotapes and set special playback preferences.

Follow these steps to play a standard VHS or Super VHS videotape.



1 INSERT TAPE

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

2 PLAY TAPE

Press PLAY ►.

3 OPTIONS DURING PLAYBACK

Freeze - To freeze a single frame, press STILL/F.ADV.

Frame Advance - To advance one frame at a time, rotate the JOG WHEEL forward or backward; or press STILL/F.ADV again.

Shuttle - To gradually increase or decrease the playback speed, rotate the SHUTTLE RING forward or backward.

Slow Motion - To play in slow motion, press SLOW +/–.

Picture Search - To cue or review at 5 times normal speed, press and release FAST-FORWARD ►► or REWIND ◄◄.

Jet Search - To cue or review at 7 times normal speed, press and hold FAST-FORWARD ►► or REWIND ◄◄.

Skip - To skip ahead in 1-5 minute increments, press SKIP 1-5 times in sequence.

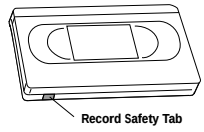
Repeat - To replay the last 30 seconds of the tape, press REPEAT.

Manual Tracking - To adjust tracking manually, press the TRK +/– keys.

Auto Tracking - To resume automatic tracking, press AUTO.

NOTES

- Tapes without record safety tabs can be set to play automatically when inserted; see "Auto Play/Rewind" on page 13.
- To resume normal playback at any time, press PLAY ►.



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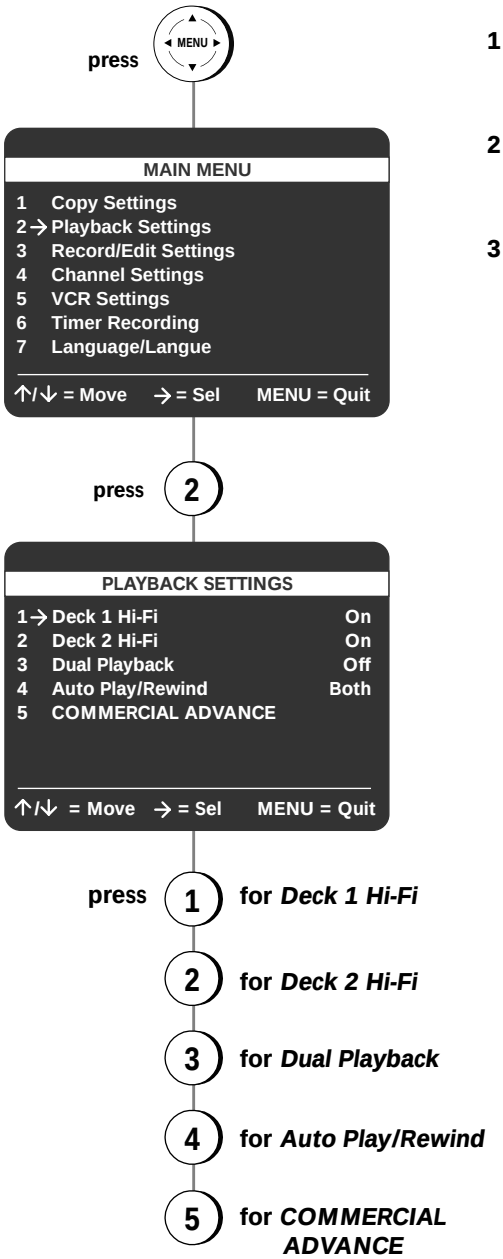
Follow these steps to set the default Playback Settings for your Dual-Deck VCR.



1 OPEN MAIN MENU

Press MENU.

2 SELECT "PLAYBACK SETTINGS"

Press 2.

3 ADJUST PLAYBACK SETTINGS

Press 1, 2, 3, 4 or 5 to set each of the following:

1 - Deck 1 Hi-Fi

On – The VCR will play the Hi-Fi audio track on tapes in Deck 1.

Off – The VCR will play the linear mono audio track on tapes in Deck 1. This setting is necessary to hear sound tracks recorded using Audio Dub or Copy Audio Insert; see pages 25 and 26.

2 - Deck 2 Hi-Fi

On – The VCR will play the Hi-Fi audio track on tapes in Deck 2.

Off – The VCR will play the linear mono audio track on tapes in Deck 2. This setting is necessary to hear sound tracks recorded using Audio Dub or Copy Audio Insert; see pages 25 and 26.

3 - Dual Playback

Seq (Sequential) – Tapes will play in sequence; i.e., Deck 1 will play, then Deck 2 will play. This is useful when watching a movie that includes two tapes.

Loop – Tapes will play in a continuous loop until you press STOP ■⏏ on the deck in Play. This is useful for continuous playback of training or sales tapes.

Normal – Each deck will play independently (default setting).

4 - Auto Play/Rewind

Play — Tapes without a record safety tab will play automatically when you insert them.

Rew — All tapes will rewind automatically when the end of the tape is reached.

Both — Tapes will both play and rewind automatically.

Off — Tapes will neither play nor rewind automatically.

5 - COMMERCIAL ADVANCE

Please refer to page 28.

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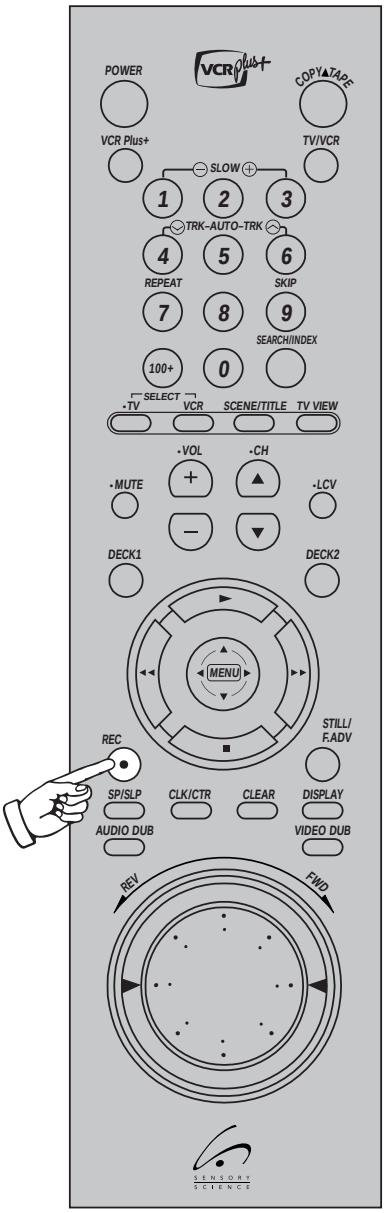
5 RECORD

This Chapter will show you how to record television programs and set recording preferences.

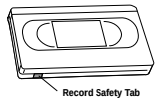
BASIC RECORDING

Follow these steps to record a television show currently in progress.



1 INSERT TAPE

Insert a VHS tape with a record safety tab into Deck 1 or Deck 2.



2 SET RECORD SPEED

Press the SP/SLP key to set the record speed to:

- **SP** – Standard Play, for best quality.
- **SLP** – Super Long Play, for maximum recording time (3 times longer than SP).

3 SELECT DESIRED CHANNEL/INPUT

Use the 0-9 keys or the CH +/– keys to select the channel you wish to record; or use the TV VIEW key to select Line 1 (front A/V inputs), Line 2 (rear A/V inputs), or the other deck.

4 START RECORDING

Press REC.

5 OPTIONS DURING RECORDING

- To pause, press STILL/F.ADV.
- To resume, press REC again.
- To stop, press STOP ■≙.
- To watch a different channel, press TV/VCR to switch to TV mode, then select a channel on your TV.
- To watch another videotape, insert a tape in the other deck and press PLAY ►.
- **One-Touch Recording** – To add recording time in 30 minute increments, press REC repeatedly. "OTR" will appear on the on-screen display, followed by the number of minutes the VCR will record. Continue pressing REC to add up to 9 hours and 30 minutes. When the recording time has elapsed, the VCR will stop recording automatically.
- **OTR Loop Record** – When you reach OTR 9:30, press REC again to enter OTR Loop mode. The selected Deck will record over and over again until you press STOP ■≙. This can be used for continuous recording of security cameras.

NOTE

- If you press POWER during One-Touch Recording, the front panel display will flash and the VCR will turn off automatically when the recording time has elapsed.

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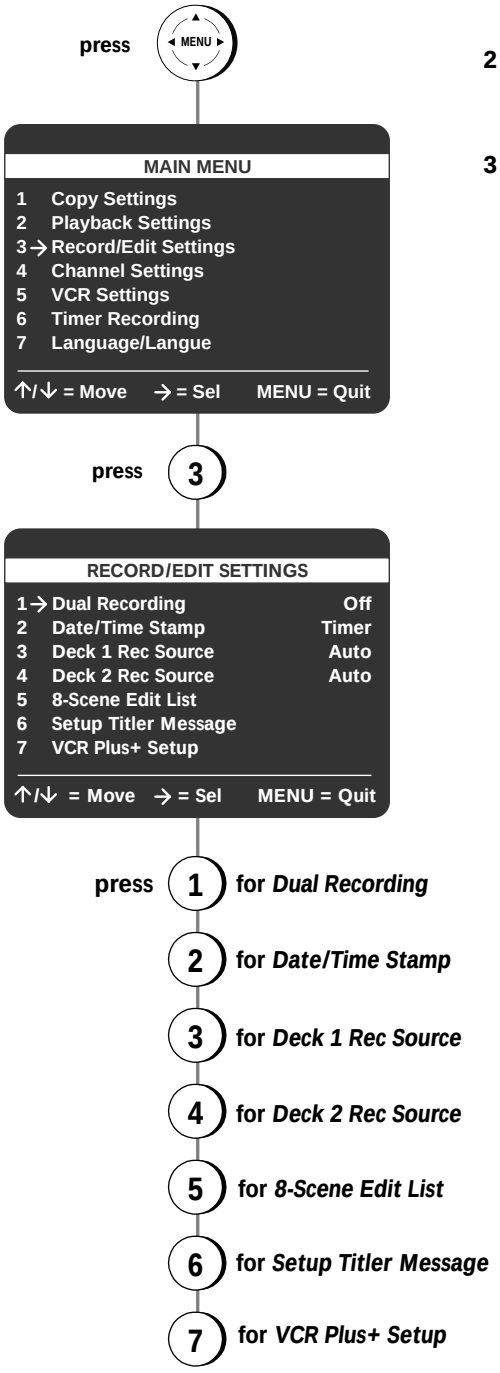
Follow these steps to set the default Record Settings for your Dual-Deck VCR.



1 OPEN MAIN MENU

Press MENU.

2 SELECT "RECORD/EDIT SETTINGS"

Press 3.

3 ADJUST RECORD/EDIT SETTINGS

Press 1, 2, 3, 4, 5, 6 or 7 to set the following:

1 - Dual Recording

Sequential – Tapes will record in sequence; i.e., the VCR will record over the entire tape in Deck 1, then over the tape in Deck 2, and then stop.

Loop – Tapes will record in a continuous loop; i.e., the VCR will record over the entire tape in Deck 1, then over the tape in Deck 2, then Deck 1, etc. until you press STOP ■≙ on the recording deck.

Normal – Each deck will record independently (default setting).

2 - Date/Time Stamp

Timer – The date, time, and record source will be "stamped" (superimposed) briefly at the start of all timer recordings.

Cont. – The date, time, and record source will be stamped continuously over all recordings.

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

Off – The Date/Time Stamp will be off.

3 - Deck 1 Record Source

Auto is the recommended setting, because the VCR will automatically record whatever is visible on the TV screen when you press REC. You may also fix the Record Source to **Line 1** (the front A/V inputs), **Line 2** (the rear A/V inputs), **Deck 2**, or **Tuner** (the current television show).

4 - Deck 2 Record Source

Auto is recommended for this setting as well. You can also fix the Deck 2 record source to **Line 1**, **Line 2**, **Deck 1**, or **Tuner**.

5 - 8-Scene Edit List

Please refer to page 23.

6 - Setup Titler Message

Please refer to page 27.

7 - VCR Plus+ Setup

Please refer to page 19.

NOTES

- If you set Dual Recording to "Sequential" and set the Record Speed to SLP, you can record for 12 hours with T-120 tapes.
- If Date/Time Stamp is set to "Cont.," the On-Screen Display and menu system will be disabled. Press STOP ■≙ on the recording deck to restore normal on-screen functions.

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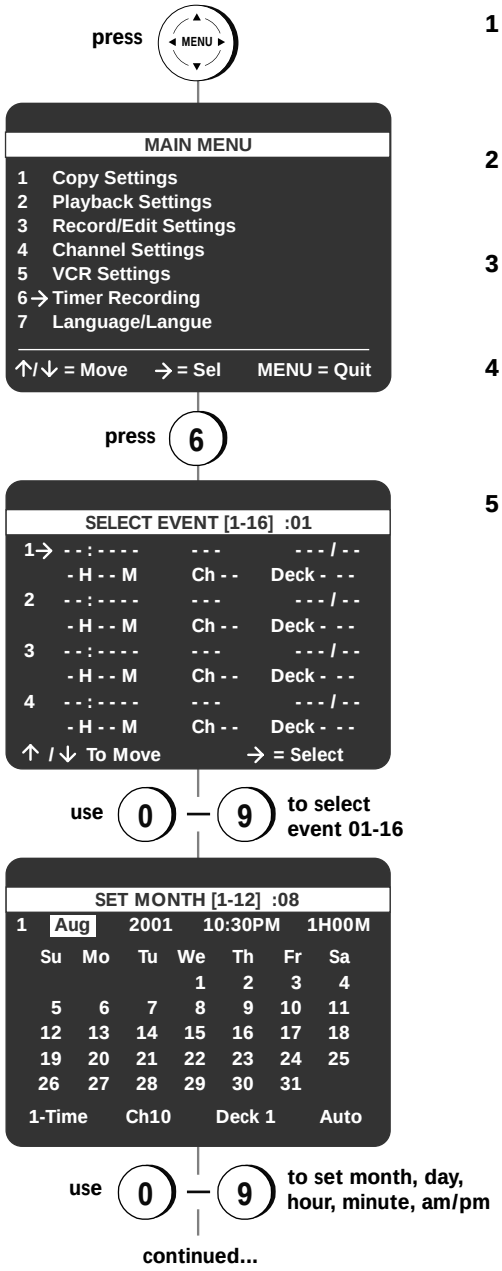
6 TIMER RECORD

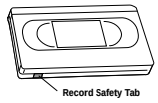
This chapter provides step by step instructions for programming Timer Recordings.

Follow these steps to program your VCR to record up to 16 events.



1 INSERT TAPE

Insert a blank tape with a record safety tab into Deck 1 or Deck 2.



2 OPEN MAIN MENU

Press MENU.

3 SELECT "TIMER RECORDING"

Press 6 (see note below).

4 SELECT EVENT NUMBER

Use the 0-9 keys to enter any available event number between "01" and "16."

5 SET DATE AND TIME

Use the 0-9 keys or UP/DOWN arrow keys to set the date and time of the event. To correct an entry, press the LEFT arrow key to go back and then enter the new numbers. To skip an entry without changing it press the RIGHT arrow key.

Set Month
Enter the month as a 2-digit number; e.g., for January, press "01."

Set Day
Enter the day as a 2-digit number; e.g., for the ninth, press "09."

Set Hour
Enter the hour as a 2-digit number; e.g., for 12:00, press "12."

Set Minute
Enter the minute as a 2-digit number; e.g., for 12:00, press "00."

Set AM/PM
Press "1" for AM or "2" for PM.

NOTE

- If you select Timer Recording from the Main Menu without having set the clock, the Clock Settings menu will appear. You must set the Clock before you can program a Timer Recording (see page 46).

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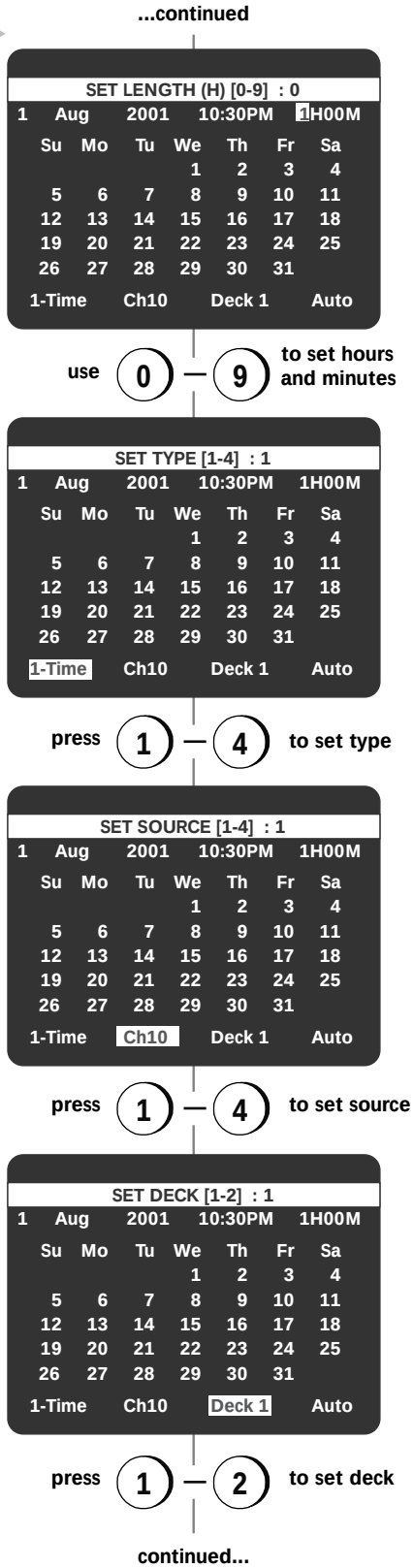

NOTE

- If Cable Box Control is on, set Source to the cable channel you wish to record. If Cable Box Control is off, set Source to Channel 2, 3, or 4—whichever channel your cable box uses—then select the desired channel on the cable box.

6 SET LENGTH

Use the 0-9 keys or UP/DOWN/RIGHT arrow keys to set the length of the event in hours and minutes.

Set Length (H)
Enter the hours as a 1-digit number; e.g., for one hour, press "1."

Set Length (M)
Enter the minutes as a 2-digit number; e.g., for 30 minutes, press "30."

7 SET TYPE

Press 1, 2, 3 or 4 (or use the UP/DOWN/RIGHT arrow keys) to set how often the event will be recorded:

1 - 1-Time
The event will be recorded once.

2 - Mo-Fr
The event will be recorded Monday through Friday.

3 - Weekly
The event will be recorded once a week.

4 - Always
The event will be recorded every day.

8 SET SOURCE

Press 1, 2, 3 or 4 (or use the UP/DOWN/RIGHT arrow keys) to set the record source. If you are using a cable box, see note below:

1 - Ch##
Records from TV. First press 1 to select this option. Then use the 0-9 keys to set the channel number you wish to record as a two -digit number.

2 - Line 1
Records from an external source connected to the front line inputs.

3 - Line 2
Records from an external source connected to the rear line inputs.

4 - Ch##s (Channel Simulcast)
Records video from TV and audio from Line 2 (usually connected to an FM stereo). Use the 0-9 keys to set the channel number.

9 SET DECK

Press 1 or 2 (or use the UP/DOWN/RIGHT arrow keys) to set which deck will record the event, as chosen in Step 1.

1 - Deck 1
The event will be recorded in Deck 1.

2 - Deck 2
The event will be recorded in Deck 2.

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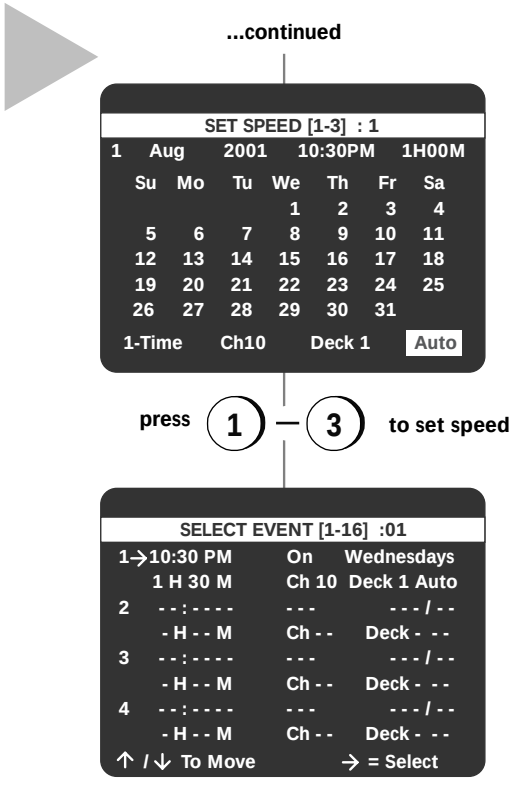

TIMER RECORDING ERRORS

Tape Missing
Solution: Insert a tape in the recording deck.

Tape Missing Tab
Solution: Insert a video cassette with a record safety tab.

Not Ready
Solution: The recording deck is already in use. Press STOP ■≙ on this deck.

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

10 SET SPEED

Press 1, 2, or 3 (or use the UP/DOWN/RIGHT arrow keys) to set the record speed.

1 - Auto
Activates Complete Program Record (see note below).

2 - SP
Standard Play. Use for best quality (a T-120 tape will record for 2 hours).

3 - SLP
Super Long Play. Use for maximum recording time (a T-120 tape will record for 6 hours).

11 VIEW EVENT SUMMARY

Press MENU to confirm the event and view a summary of all programmed events.

- The event is now stored in memory and will record at the scheduled time. It is not necessary to turn the VCR off or put it into a "Timer" mode; the event will record regardless of the state of the VCR.
- The "Timer" indicator will light on the front panel display. If there is a timer recording error, the "Timer" indicator will blink (see "Timer Recording Errors" below).
- To program another event, select an available event number.
- To edit an event, select its event number.
- To delete an event, use the up/down arrow keys to select it, then press CLEAR.
- To exit the Select Event screen, press MENU.

NOTE

- **Complete Program Record** (CPR) adjusts the recording speed to make sure you won't run out of tape before the Timer Recording is complete. With Record Speed set to "Auto," the VCR will begin recording in SP. It will then calculate how much time is remaining on the tape and adjusts the record speed to SLP if necessary. If there is not enough room to record the entire show, the VCR will record in SLP until the end of the tape is reached.

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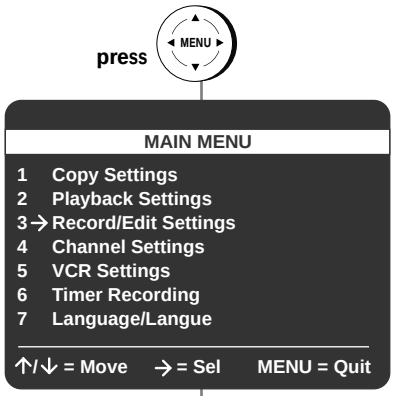
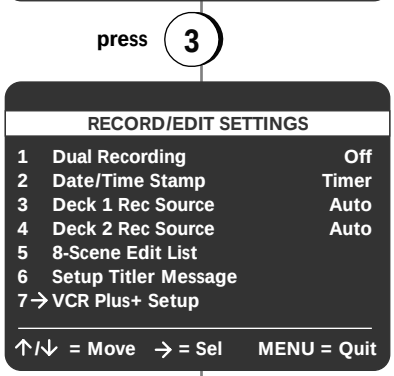
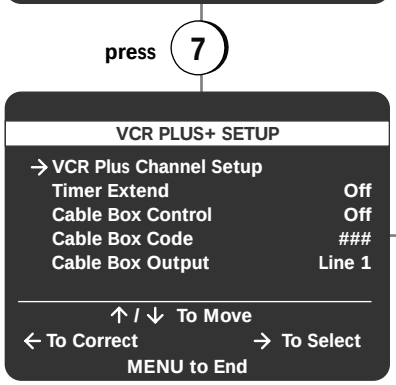
7 VCR PLUS+

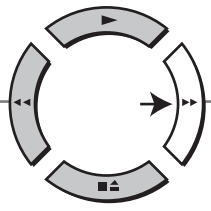
This chapter provides step by step instructions for setting up and programming VCR Plus+ recordings, a patented and greatly simplified method of timer recording.

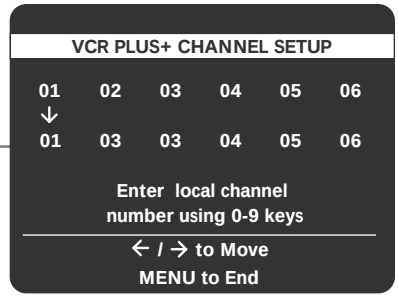
Follow these steps to match your local channels to the VCR Plus+ preassigned channels. This process is know as "Channel Mapping" and must be done before you can begin using VCR Plus+.











1 OPEN "MAIN MENU"

Press MENU.

2 SELECT "RECORD/EDIT SETTINGS"

Press 3.

3 SELECT "VCR PLUS+ SETUP"

Press 7.

4 SELECT "VCR PLUS CHANNEL SETUP"

Press the right arrow key.

5 MAP YOUR CHANNELS

Using the worksheet on the following page, determine the local equivalents of the VCR Plus+ channels for your viewing area. You can find this information in your local television listings or by contacting your local cable company.

- Use the left/right arrow keys to move between channels and the 0-9 keys to select channels.
- When finished, press MENU to save and exit.

NOTE

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VCR PLUS+ WORKSHEET

The following list contains many of the standard VCR Plus+ channel numbers used in the US and Canada. The first group consists of Cable TV stations and the second group consists of Broadcast TV stations. Use the spaces beside each channel to fill in the local channel for your viewing area.

CABLE

Network	VCR Plus+ Channel	Your Local Channel
CSPAN	14	_____
Fox Sports Southwest	17	_____
HBO	33	_____
ESPN	34	_____
AMC	35	_____
Discovery Channel	37	_____
Nickelodeon	38	_____
A&E	39	_____
Showtime	41	_____
CNN	42	_____
TBS	43	_____
USA Network	44	_____
Cinemax	45	_____
Lifetime	46	_____
Fox Family Channel	47	_____
MTV	48	_____
TNN	49	_____
TLC	51	_____
TNT	52	_____
Disney Channel	53	_____
Bravo	54	_____
WGN	55	_____
BET	57	_____
TMC	58	_____
VH1	62	_____
E! Entertainment TV	63	_____
Comedy Central	72	_____
ESPN2	80	_____
History Channel	83	_____
HGTV	86	_____
Sci-Fi Channel	88	_____
FX	89	_____
MSNBC	90	_____
Fox News Channel	91	_____
Encore	92	_____
Viewer's Choice 1	93	_____
Viewer's Choice 2	94	_____
HBO 2	95	_____
HBO 3	96	_____
Showtime 2	97	_____
Cinemax 2	98	_____
QVC	99	_____

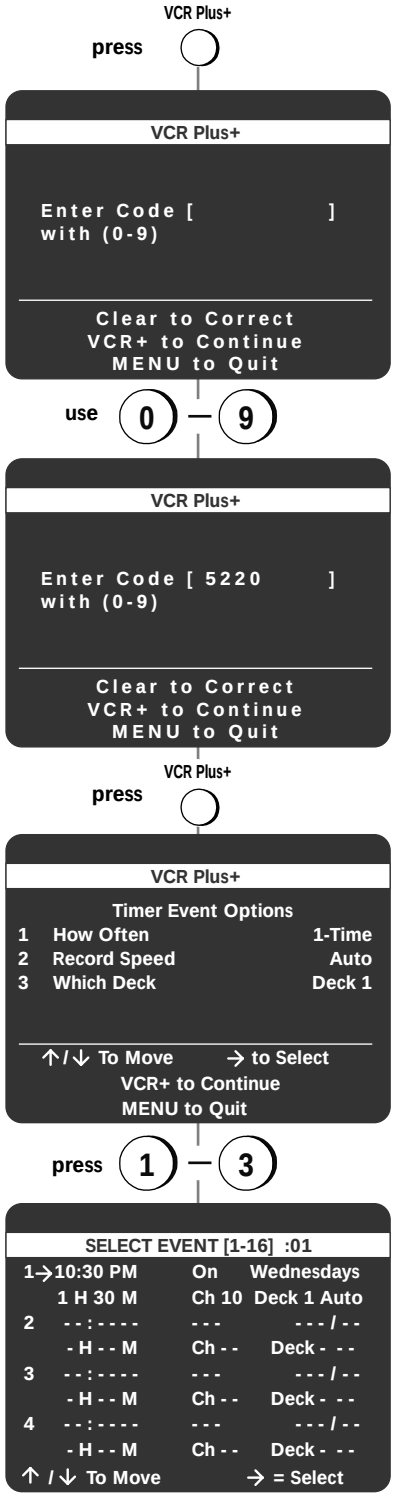
BROADCAST

Network	VCR Plus+ Channel	Your Local Channel
WB	03	_____
Fox	04	_____
NBC	05	_____
ABC	08	_____
CBS	11	_____
PBS	13	_____
UPN	21	_____
Univision	23	_____

OTHER

Network	VCR Plus+ Channel	Your Local Channel
_____	____	_____
_____	____	_____
_____	____	_____

Follow these steps to program a VCR Plus+ recording. You will need a local TV listing that includes VCR PlusCode numbers.



1 OPEN VCR PLUS+ MENU

Press the VCR Plus+ key (see note below).

2 ENTER VCR PLUSCODE NUMBER

Use the 0-9 keys to enter the 2- to 8-digit VCR PlusCode number shown in your local television programming guide.

- To correct your entry, press CLEAR.
- Press VCR Plus+ to continue.

3 SET VCR PLUS RECORDING OPTIONS

Press 1, 2, or 3 to set the following:

1 - How Ofen

1-Time – The event will be recorded once.

Mo-Fr – The event will be recorded Monday through Friday.

Weekly – The event will be recorded once a week.

Always – The event will be recorded every day.

2 - Record Speed

Auto – Activates **Complete Program Record** to maximize high quality recording time for the given tape length (see note on page 18).

SP – Standard Play. Use for best quality (a T-120 tape will record for 2 hours).

SLP – Super Long Play. Use for maximum recording time (a T-120 tape will record for 6 hours).

3 - Which Deck

Deck 1 – The event will be recorded in Deck 1.

Deck 2 – The event will be recorded in Deck 2.

4 VIEW EVENT SUMMARY

When you are satisfied with your VCR Plus+ recording options, press MENU to view a summary of the event and all other programmed events. Press MENU again to exit the menu system.

NOTE

- If you haven't set the clock, the Clock Settings menu will appear. You must set it before you can program a VCR Plus+ Recording (see page 46).

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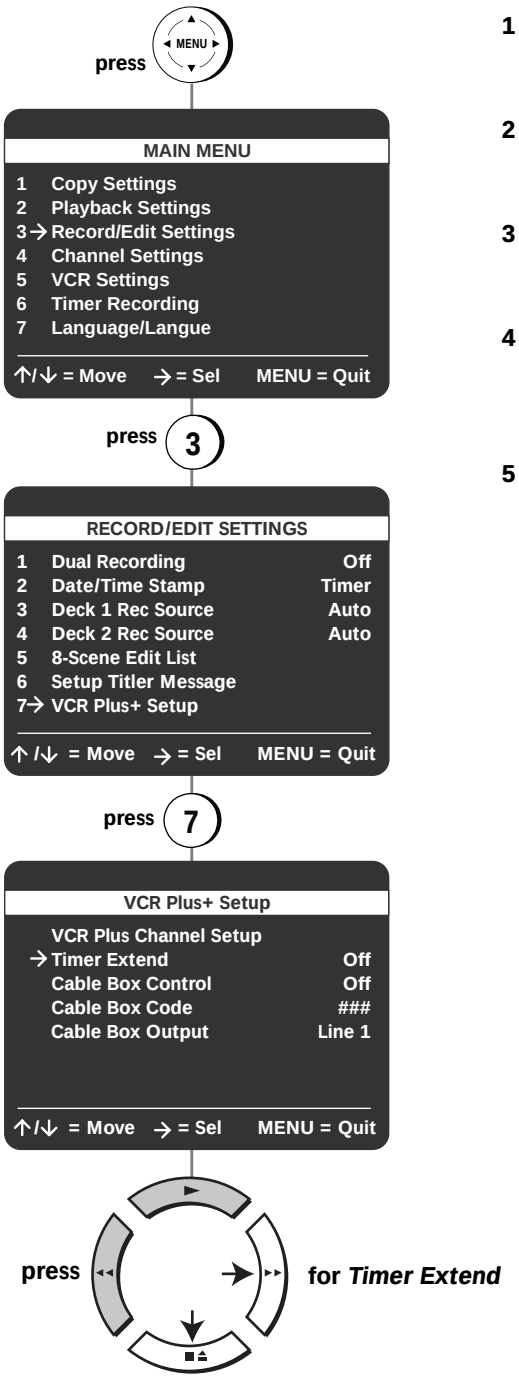
Follow these steps to extend VCR Plus+ recording a few minutes before and after the scheduled event. This will help to ensure that the entire event is recorded.



1 OPEN "MAIN MENU"

Press MENU.

2 SELECT "RECORD/EDIT SETTINGS"

Press 3.

3 SELECT "VCR PLUS+ SETUP"

Press 7.

4 SELECT "TIMER EXTEND"

Press the down arrow key to move the blinking arrow to "Timer Extend."

5 SET "TIMER EXTEND"

Press the right arrow to set Timer Extend to one of the following:

- **Off** — Timer Extend is disabled.
- **2-Min** — VCR Plus+ events will record 2 minutes before and after their scheduled time.
- **5-Min** — VCR Plus+ events will record 5 minutes before and after their scheduled time.

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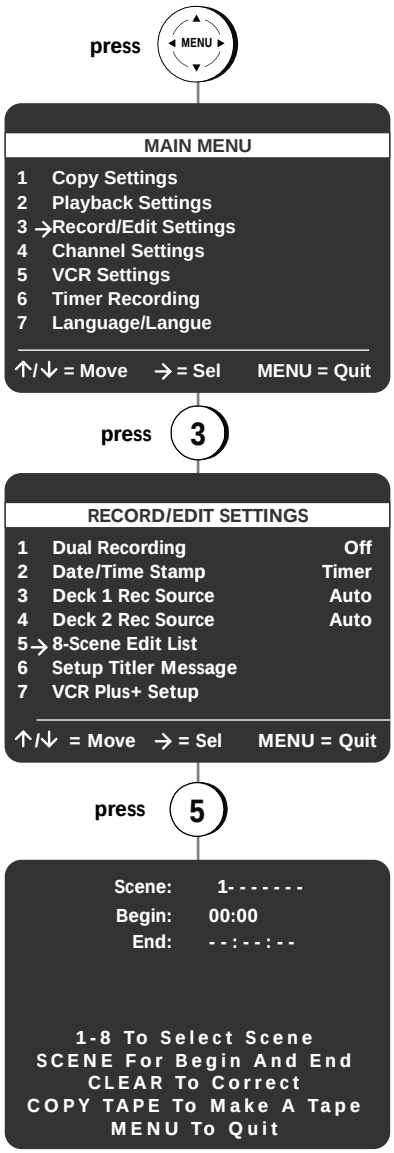
8 EDIT

This Chapter will show you how to use the 8-Scene Editor, A/V Dubbing, and the On-Screen Titler to make your own home movies.

Follow these steps to use the 8-Scene Editor to assemble the best scenes from your home movies.



1 INSERT SOURCE TAPE

Insert your source tape (original footage) in Deck 1.

2 INSERT TARGET TAPE

Insert your target tape in Deck 2. Make sure the tape has a record safety tab. For best quality, use blank or pre-formatted tapes.

3 OPEN MAIN MENU

Press MENU.

4 SELECT "RECORD/EDIT SETTINGS"

Press 3.

5 SELECT "8-SCENE EDIT LIST"

Press 5.

6 SELECT SCENE NUMBER

Select a scene number from 1 to 8.

7 MARK BEGINNING OF SCENE

Play the tape in Deck 1 to the start of the desired scene and press SCENE/TITLE. The VCR will save the starting counter position of this scene.

8 MARK END OF SCENE

Play the tape in Deck 1 to the end of the same scene and press SCENE/TITLE. The VCR will save the ending counter position of this scene.

- To clear the end point, press CLEAR once.
- To clear the begin point, press CLEAR again.

9 ADD MORE SCENES (OPTIONAL)

Repeat Steps 6-8 to store up to 8 total scenes.

10 ASSEMBLE THE TAPE

Press COPY TAPE. The VCR will automatically copy all marked scenes in order from Deck 1 to Deck 2. When this processed is finished, repeat Steps 3-10 to add additional scenes.

NOTE

- While there are scenes in the Edit List, you cannot eject the source tape in Deck 1 with the remote.

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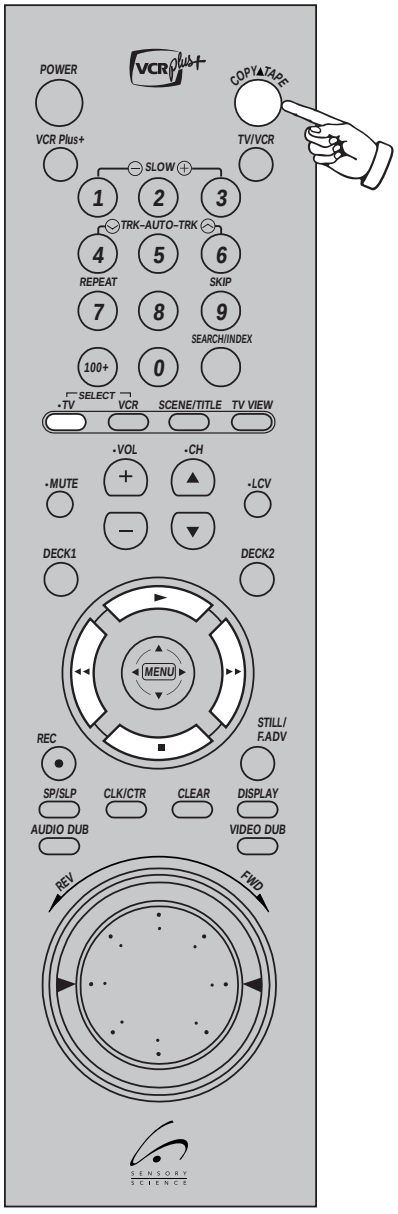
Follow these steps to edit your tapes manually using the COPY TAPE button.



1 BEFORE YOU BEGIN —

- Turn off EZ Copy; see page 11.
- Turn off Auto Play; see page 13.

2 INSERT SOURCE TAPE

Insert your source tape (original footage) in Deck 1.

3 INSERT TARGET TAPE

Insert your target tape in Deck 2. Make sure the tape has a record safety tab.

4 CUE SOURCE TAPE

Press the DECK 1 key, then use the deck control keys (PLAY ►, STOP ■⏏, FAST-FORWARD ►►, REWIND ◄◄) to position the source tape at the start of the desired segment. Stop or pause the tape at this position.

5 CUE TARGET TAPE

Press the DECK 2 key, then use the deck control keys to position the target tape where you wish copying to begin. Stop or pause the tape at this position.

6 START EDITING

Press COPY TAPE.

- The "Copy" indicator will light on the front panel display and the VCR will begin copying from Deck 1 to Deck 2.

7 PAUSE EDITING

Press COPY TAPE again to pause.

- The "Copy" indicator will blink on the front panel display.

8 REPOSITION SOURCE TAPE

Press the DECK 1 key, then use the deck control keys to reposition the source tape at the start of the next segment. Stop or pause the tape at this position.

9 RESUME EDITING

Repeat Steps 6-8 to add all desired scenes from Deck 1 to Deck 2.

- When finished, select Deck 2, then press STOP ■⏏.
- To automatically edit out commercial segments in 1-5 minute blocks, see note on "Skip Edit" or see "Commercial Free Copy" on page 31.

NOTE

- **Skip Edit** - Skip Edit allows you to remove commercials in 1-5 minute blocks while copying a tape. When the commercials start, press SKIP once for every minute of commercials to be deleted. The Dual-Deck VCR will automatically pause the copy, fast-forward 1-5 minutes, and resume copying.
- Leave at least 15 seconds of blank tape at the beginning of a tape to ensure a crisp edit.

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Follow these steps to dub new audio and/or video tracks over your prerecorded tapes.

1 INSERT TAPE

Insert the tape you wish to dub in Deck 2.

2 POSITION TAPE

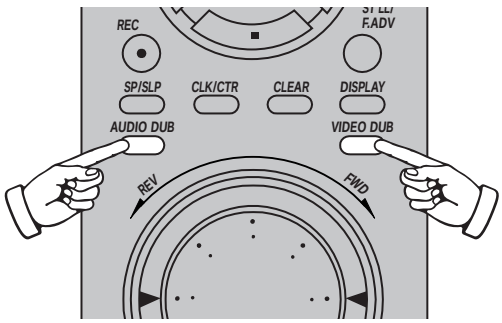
Play the tape to the point where you want to begin dubbing and press STILL/F.ADV.

3 ACTIVATE A/V DUB MODE

Audio Dub
To record new audio over existing video (e.g., to add a narrative), press AUDIO DUB.

Video Dub
To record new video over existing audio (e.g. to make a music video), press VIDEO DUB.

A/V Dub
To record both new audio and video over existing tape, press AUDIO DUB and then VIDEO DUB.



4 SWITCH TV VIEW TO SOURCE

Press TV VIEW repeatedly until you view the source from which you plan to dub the new audio and/or video track(s):

Line 1
To dub from a device connected to the front A/V input.

Line 2
To dub from the microphone or a device connected to the rear line 2 input. If you have connected BOTH a microphone AND another source device to the rear A/V inputs, the Dual-Deck VCR will ONLY recognize the microphone as Line 2.

Tuner
To dub from the currently selected television channel.

Deck 1
To dub from a tape in Deck 1.

5 CUE SOURCE

Position your source device at the point you wish to begin dubbing; e.g., cue the external CD or tape player to the desired track, or pause the tape in Deck 1 at the desired starting point.

6 START DUBBING

Play your source, then press REC on Deck 2. The VCR will begin dubbing from the source to the tape in Deck 2. "A.Dub•," "V.Dub•," or "A/V Dub•" will appear on the on-screen display while dubbing is in progress.

7 OPTIONS WHILE DUBBING

- To pause, press STILL/F.ADV on Deck 2. While the tape is paused, you can change or reposition the source device.
- To resume, press REC.
- To stop, press STOP ■⏏.
- To have the A/V Dub stop automatically, see "A/V Dub Auto Stop" below.

8 TO LISTEN TO DUBBED AUDIO

Dubbed audio is recorded on the tape's linear (mono) track. To hear the new soundtrack, turn off Hi-Fi audio for the desired playback deck, see page 13.

NOTE

- **A/V Dub Auto Stop** - A/V Dub will automatically stop recording at tape counter position 0:00:00. This is helpful when dubbing long segments. Before you set the beginning point on your target tape (Step 2), fast-forward to the last frame of the segment and press CLEAR to reset the counter to 0:00:00. Then rewind to the beginning of the segment and start the A/V Dub. When the tape reaches 0:00:00, dubbing will stop automatically.

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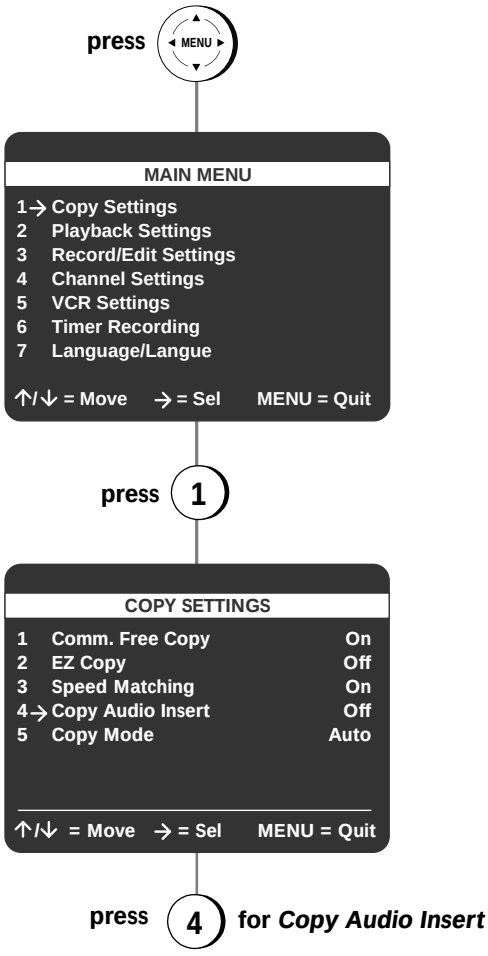
Follow these steps to insert a new audio track, such as recorded music or narration, onto your target tape. The new audio can be recorded from the front line inputs, rear line inputs, or a microphone.



1 OPEN MAIN MENU

Press MENU.

2 SELECT "COPY SETTINGS"

Press 1.

3 SET COPY AUDIO INSERT

Press 4 to choose from the following:

L1 (Line 1)
While copying, a new linear audio track will be recorded from an external audio source connected to the front audio jacks.

L2 (Line 2)
While copying, a new linear audio track will be recorded from an external audio source connected to the rear audio jacks.

Mic (Microphone)
While copying, a new linear audio track will be recorded from a microphone connected to the rear Mic jack.

Off
Copy Audio Insert is disabled. The existing audio will be copied.

4 CONNECT AUDIO SOURCE

Connect your external audio source to the front (Line 1) or rear (Line 2) inputs using standard RCA audio cables.

5 CUE TAPES

Cue up all devices:
- Source tape in Deck 1.
- Target tape in Deck 2.
- The external audio source (tape player, CD player, etc.) connected to Line 1 or Line 2.

6 COPY NEW AUDIO TRACK

Press COPY TAPE on the VCR and PLAY on your external audio source at the same time.
- The new audio signal will be copied on the linear audio track. To hear the new soundtrack, you must turn off Hi-Fi audio for the desired playback deck, see page 13.

NOTES

- Do not connect speaker outputs to the VCR.
- If there is no audio signal, the audio track will be blank.
- Copy Audio Insert automatically reverts to "Off" when the VCR is turned off.

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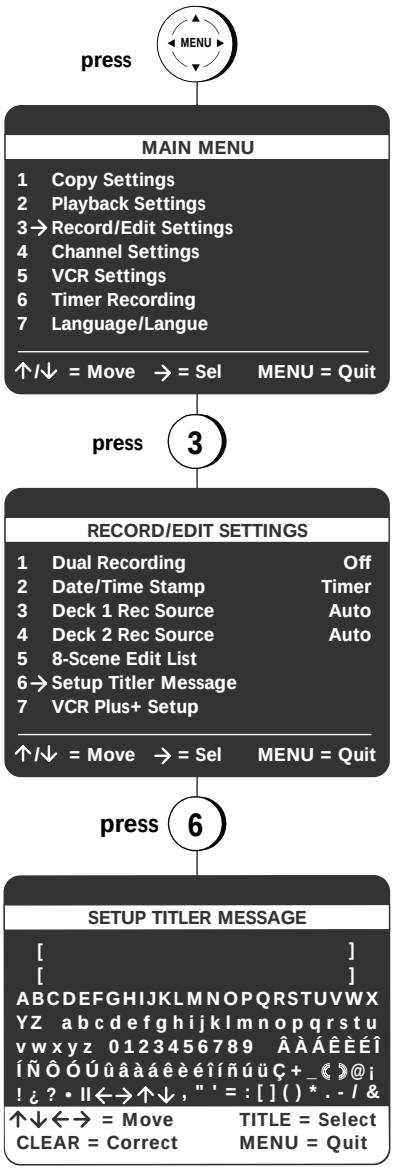
Follow these steps to add titles or credits to your home movies using the On-Screen Titler.



1 OPEN MAIN MENU

Press MENU.

2 SELECT "RECORD/EDIT SETTINGS"

Press 3.

3 SELECT "SETUP TITLER MESSAGE"

Press 6.

4 COMPOSE YOUR MESSAGE

Use the up/down/left/right arrow keys to select each character in your message:

- Press SCENE/TITLE after each character to insert it in your message.
- Press CLEAR to backspace and delete the previous character.
- Choose from over 100 letters, numbers and symbols.

5 SAVE YOUR MESSAGE

Press MENU to save your message and exit the menu system.

6 INSERT TAPE

Insert a tape with a record safety tab in Deck 2. You must use Deck 2 to record your Titler Message.

7 START RECORDING

Start any record function; e.g., Record, One-Touch Record, Copy, or Timer Record.

8 RECORD TITLER MESSAGE

You can overlay the title on your video for up to 20 seconds in 5-second increments. Press SCENE/TITLE 1 to 4 times to record your Titler Message for 5, 10, 15, or 20 seconds, respectively.

NOTE

- You must be recording a video signal when you record the Titler Message; i.e. you cannot record a title without also recording a picture.

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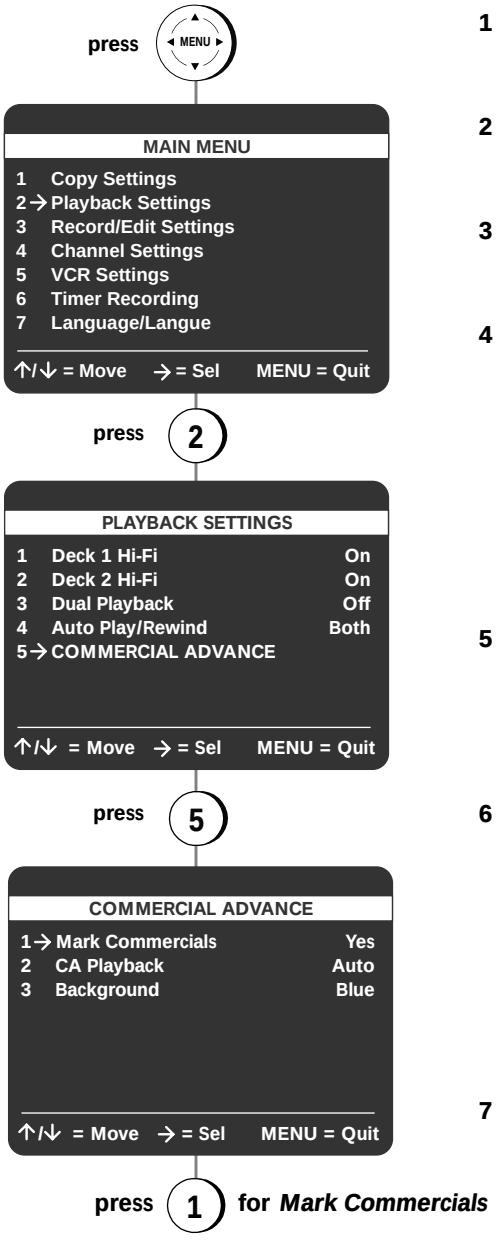
9 COMMERCIAL ADVANCE

This Chapter will show you how to use COMMERCIAL ADVANCE to skip commercials during playback of recordings, and remove marked commercials from copied tapes.

COMMERCIAL ▸ ADVANCE®

If you have ever wanted to watch TV without commercials, COMMERCIAL ADVANCE is for you. The first step is to mark groups of commercials while recording a TV show.



1 OPEN MAIN MENU

Press MENU.

2 SELECT "PLAYBACK SETTINGS"

Press 2.

3 SELECT "COMMERCIAL ADVANCE"

Press 5.

4 SET "COMMERCIAL ADVANCE"

Press 1 to select from the following:

1 - Mark Commercials

- **Yes** – The VCR will automatically mark commercials during recording.
- **No** – The VCR will not mark commercials during recording.

5 INSERT TAPE

Insert a videotape in Deck 1.

- COMMERCIAL ADVANCE only works in Deck 1.

6 RECORD FROM TV

Record a television show using one of the three basic methods:

- Basic Recording; see page 14.
- One Touch Recording; see page 14.
- Timer Recording; see page 16.
- VCR Plus+ Recording; see page 19.

7 END RECORDING

Press STOP ■≙ on Deck 1 or allow the preset recording time to run out; e.g. One-Touch Recording, Timer Recording, and VCR Plus+ all have preset recording times.

NOTES

- COMMERCIAL ADVANCE ® is a trademark of SRT, Inc. A Jerry Iggulden invention licensed in association with Arthur D. Little Enterprises, Inc.

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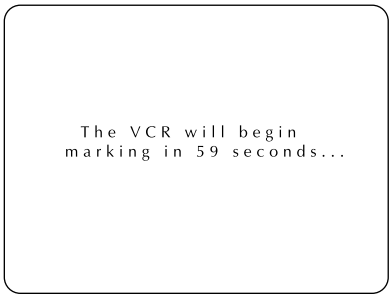

8 CONFIRM OR CANCEL

When recording is stopped, the VCR will alert you that, "The VCR will begin marking commercials in 59 seconds..."

- No action is required to mark the commercials on the recording; simply wait 59 seconds for the confirmation screen to count down.
- If you are not present for the 59 second countdown, the VCR will automatically mark the commercials anyway; e.g., if you set a Timer Recording, VCR Plus+, or One Touch Recording and the TV is turned off, the commercials will still be marked.
- To cancel, press STOP ■⏏ in Deck 1 and the commercials will not be marked.

9 MARK COMMERCIALS

When the 59 seconds have elapsed, the VCR will rewind to the start of the recording, and then search forward and mark groups of commercials.

- This process takes approximately 15 minutes for each hour of recorded tape.
- The VCR will stop when finished.
- Rewind the tape and proceed to "Skipping Commercials" on the following page.

NOTES

- When you use Timer Recording or VCR Plus+ recording to record two consecutive shows on the same channel, program each show separately so that the prologues and epilogues are not automatically skipped.
- COMMERCIAL ADVANCE will only mark recordings longer than 20 minutes.

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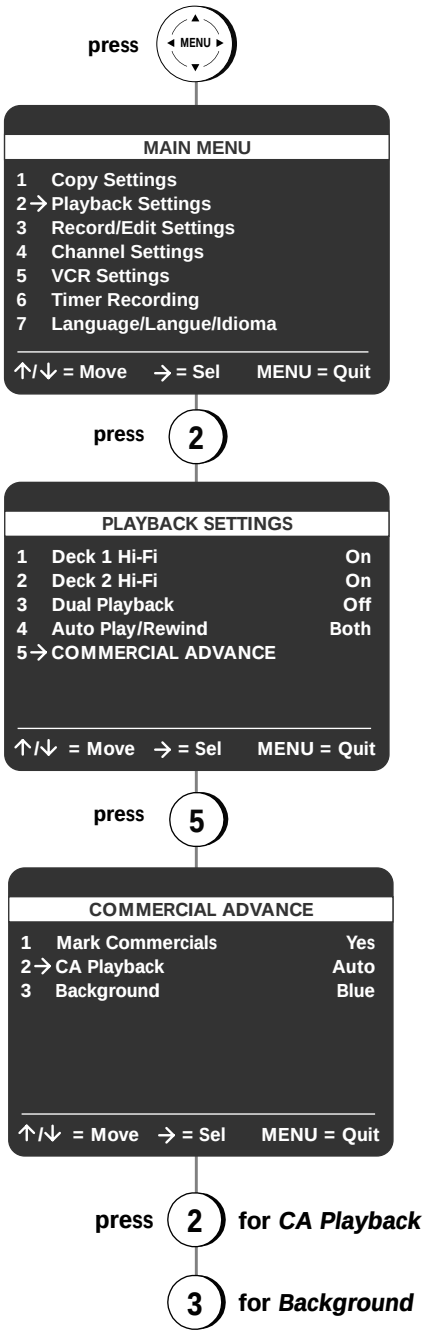
Follow these steps to automatically skip marked commercials while watching a taped TV show.



1 OPEN MAIN MENU

Press MENU.

2 SELECT "PLAYBACK SETTINGS"

Press 2.

3 SELECT "COMMERCIAL ADVANCE"

Press 5.

4 ADJUST "COMMERCIAL ADVANCE" SETTINGS

Press 2 or 3 to set each of the following:

2 - CA Playback

- **Auto** – During playback of a tape with marked commercials, the VCR will automatically fast-forward through commercial groups at approximately 7 times normal speed (SP).
- **Manual** – Commercials will be shown as usual. To manually bypass marked commercial groups, press SEARCH/INDEX.

3 - Background

- **Blue** – While fast-forwarding through commercials, the VCR will display a blue background.
- **Video** – While fast-forwarding through commercials, the VCR will display the video recording.

5 SKIP COMMERCIALS

Play a tape with marked commercials in Deck 1.

- A commercial group that starts in the first two minutes or last two minutes of a recording will not be skipped.
- A commercial will not be skipped if a recording starts in the middle of a commercial segment, if one isolated commercial is shown without others, or if a commercial is longer than one minute.
- Part of a recorded program may be skipped if the program segment is between commercials and less than one minute; or if there are frequent dark and quiet scenes.

NOTE

- **COMMERCIAL ADVANCE Override** - To temporarily override automatic skipping of commercials, press STOP ■≙ while the VCR is fast-forwarding through a group of commercials. Press REWIND ◄◄ to position the tape before the commercial group, then press PLAY ►. This time when the commercial group begins, it will NOT be skipped. Automatic skipping will resume after the VCR reaches the end of a commercial group.

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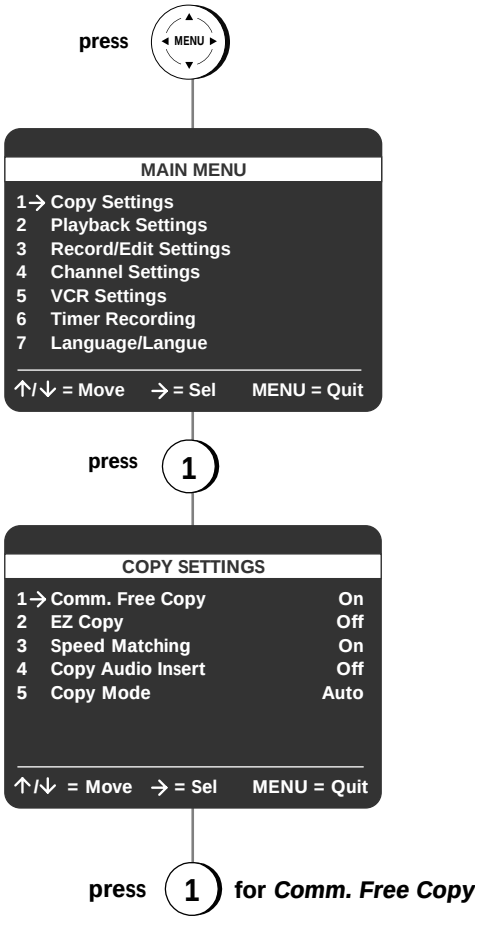
Follow these steps to remove all marked commercials while making a copy of a taped TV show.



1 OPEN MAIN MENU

Press MENU.

2 SELECT "COPY SETTINGS"

Press 1.

3 SET "COMM. FREE COPY"

Press 1 to select from the following:

- **On** – The VCR will exclude marked commercials while copying tapes.
- **Off** – The VCR will include marked commercials while copying tapes.
- **Auto** – The VCR will automatically make a copy of each TV program you record without the marked commercials; see note below.

4 INSERT SOURCE TAPE

Insert the tape with marked commercials in Deck 1.

5 INSERT THE TARGET TAPE

Insert the tape you are copying to in Deck 2.

6 COPY YOUR TAPE

Press COPY TAPE.

- The tape in Deck 1 will begin copying to Deck 2. Deck 2 will suspend recording whenever Deck 1 locates a block of commercials.
- When copying is complete, the tape in Deck 2 will be commercial free!

AUTO COMMERCIAL FREE COPY

When "Comm. Free Copy" is set to "Auto," each time a TV program finishes recording and marking commercials in Deck 1, the VCR will automatically rewind Deck 1 to the start of the recording and copy the program to Deck 2 without the marked commercials!

How it Works

1. Load a videotape with a record safety tab into each Deck.
2. Record a TV program in Deck 1 (standard recording, One-Touch recording or timer recording).
3. When recording is stopped in Deck 1 (or when the recording time has elapsed), the VCR will automatically rewind the tape in Deck 1 to the start of the recording and mark all commercial groups.
4. Next Deck 1 will rewind again and copy the program to Deck 2 leaving out the marked commercials. When Auto Commercial Free Copy is complete, both decks will stop at the end of the recorded program—ready to record additional programs!

NOTES

- The Commercial Free Copy function will only recognize commercial groups that have been marked by COMMERCIAL ADVANCE.
- Auto Commercial Free Copy will be disabled if there is a Timer event scheduled on Deck 2.

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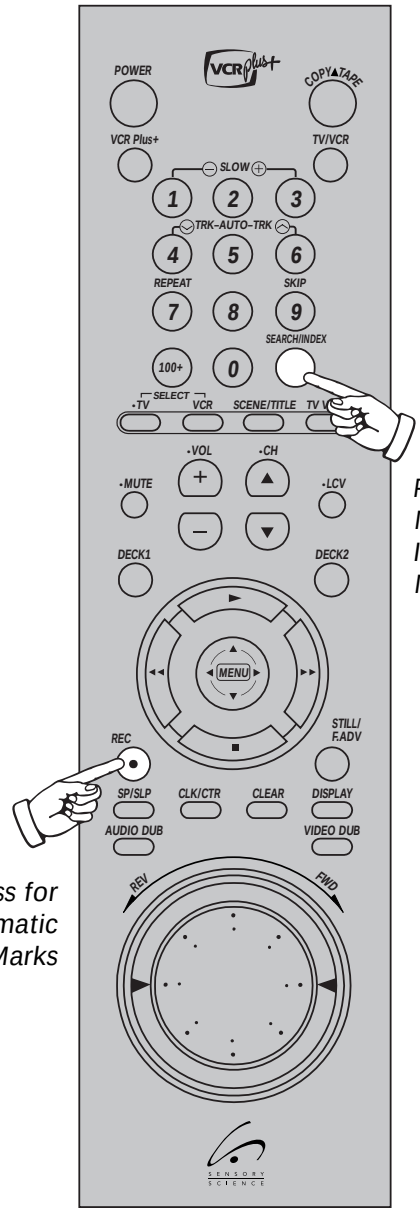
10 SEARCH

This Chapter will show you how to locate recordings on your videotapes, as well as scan through the previews at the start of rented movies.

ABOUT INDEX MARKS

Follow these steps to place Index Marks on your recordings.



Press for Manual Index Marks

Press for Automatic Index Marks

WHAT ARE 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. Later you can locate these "bookmarks" using Index Search or Index Scan.

Automatic Index Marks

The VCR places an Index Mark on your tape the moment you start recording. This includes standard recording, One Touch Recording, Timer Recording, copying, or recording with the 8-Scene Editor.

Manual Index Marks

You can place an Index Mark manually any time a tape is recording by pressing SEARCH/INDEX. "Index" will flash briefly on the On-Screen Display while the mark is recorded.

NOTE

- **VHS Index Search System (VISS)** - The Index system used on the Dual-Deck VCR is the VHS standard indexing system called VHS Index Search System, or VISS. This system is compatible with tapes made on other VCRs and camcorders using the VISS system.

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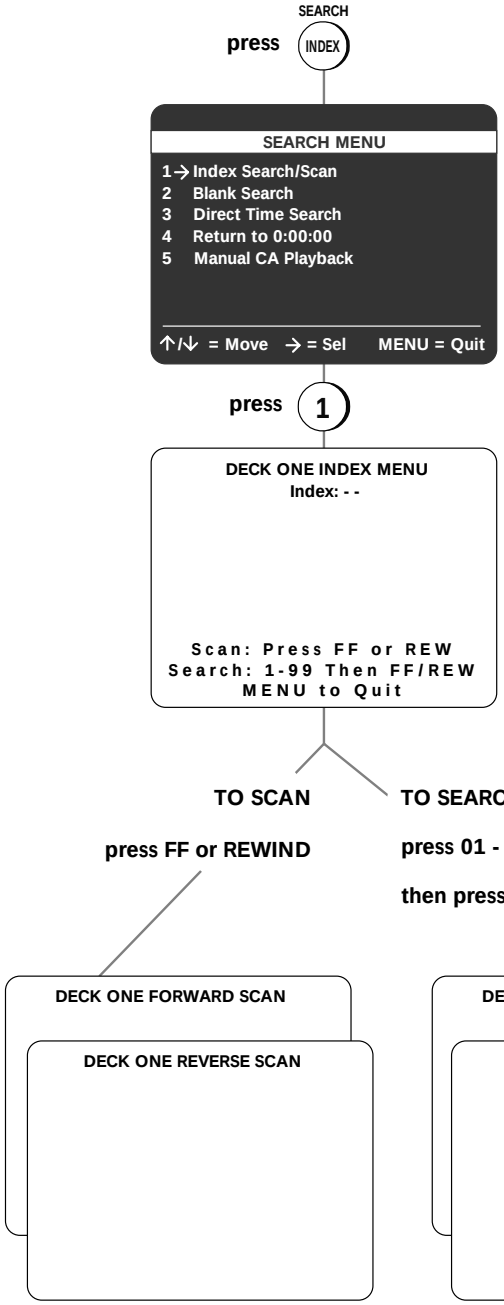
Follow these steps to locate recordings by scanning or searching for Index Marks.



1 INSERT TAPE

Insert a videotape in Deck 1 or Deck 2.

- If the tape has a record safety tab, you will see the menu at left.
- If the tape is missing the record safety tab, please see MOVIE ADVANCE on page 35.

2 OPEN "SEARCH MENU"

While the tape is stopped or playing, press press SEARCH/INDEX.

3 SELECT "INDEX SEARCH/SCAN"

Press 1.

4 SEARCH/SCAN FOR INDEX MARKS

Choose one of the following:

Scan

Press FAST-FORWARD ▸▸ or REWIND ◂◂ to begin scanning for Index Marks forwards or backwards.

• When Index Scan 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.

Search

Enter a number from 1 to 99; e.g. for "5" press "0-5." Then press FAST-FORWARD ▸▸ or REWIND ◂◂ to begin searching forward or backward for the specified Index Mark.

• When the VCR locates the Index Mark, it will play the tape.

NOTE

- **Auto Show Finder** - Use Index Scan with the Date/Time Stamp to quickly find Timer Recordings on your tapes. For example, when Index Scan stops at an Index Mark and plays a few seconds of tape, you will see the date and time the show was recorded.

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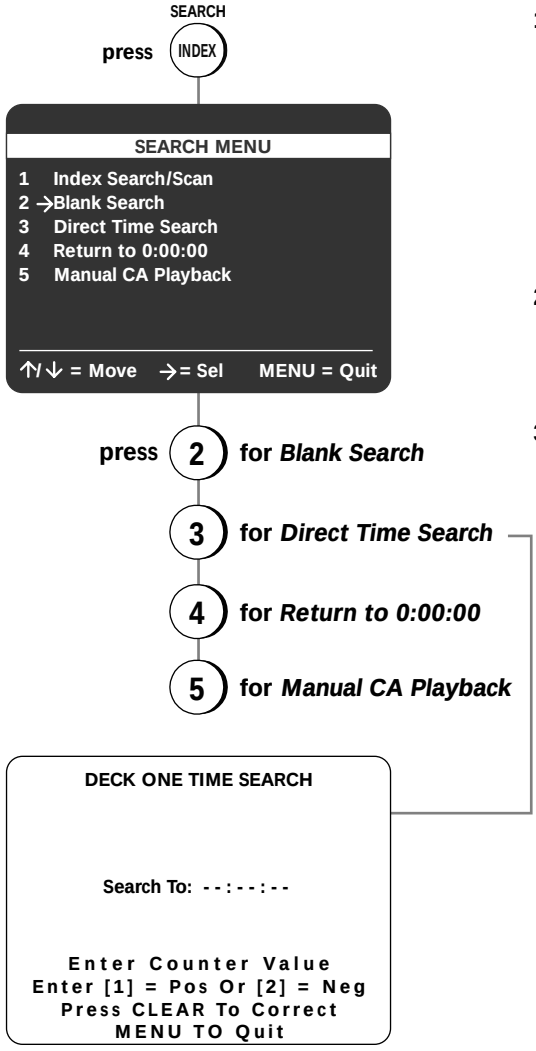
Follow these steps to find the nearest blank segment of tape, find a specific tape counter position, or return to 0:00:00.



MANUAL CA PLAYBACK

If you set "CA Playback" to "Manual" (see page 30), you can still fast-forward through marked commercials with Manual CA Playback. While you are watching a tape with marked commercials, press SEARCH/INDEX and then press 5: The VCR will search forward to the end of the next marked commercial group, then resume playback.

- This feature works in Deck 1 only
- Tapes must be recorded in SP or SLP

1 INSERT TAPE

Insert a videotape in Deck 1 or Deck 2.

- If the tape has a record safety tab, you will see the menu at left.
- If the tape is missing the record safety tab, please see MOVIE ADVANCE on page 35.

2 OPEN "SEARCH MENU"

While the tape is stopped or playing, press press SEARCH/INDEX.

3 SELECT SPECIAL SEARCH FUNCTION

Press 2, 3, 4 or 5 to select one of the following:

2 - Blank Search

Searches for the next available blank (unrecorded) segment on your tape. This makes it easy to find available space when recording TV shows or editing tapes.

- If the VCR finds blank tape, it will stop.
- If the VCR does not find blank tape, it will eject the tape.

3 - Direct Time Search

Locates a specific tape counter position in hours, minutes, and seconds. This is useful for editing purposes; e.g., you can advance the tape directly to the beginning of the desired scene.

- Press 1 for positive or 2 for negative counter values.
- Use the 0-9 keys to enter the desired time in hours, minutes, and seconds.
- Press CLEAR if you need to back up and re-enter a number.
- Press SEARCH/INDEX to advance the tape to the specified time.

4 - Return to 0:00:00

Advances your videotape to tape counter position 0:00:00. This is useful when editing from a baseline counter value of 0:00:00.

- When selected, the VCR will automatically rewind or fast-forward the tape to counter position 0:00:00.

5 - Manual CA Playback

See sidebar at left.

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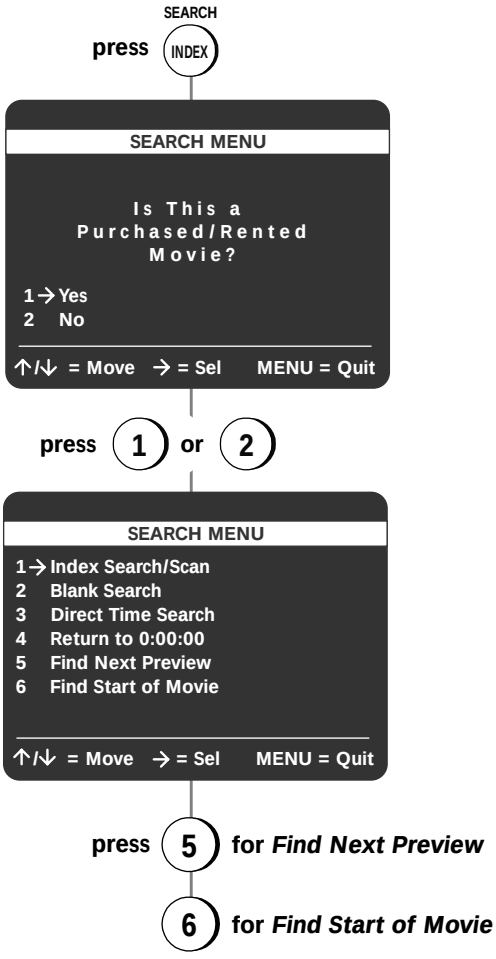
Follow these steps to enjoy MOVIE ADVANCE, a handy feature that automatically finds the beginning of the movie on most rented and purchased video tapes. You can also use MOVIE ADVANCE to selectively watch or skip the previews.



OVERRIDING PREVIEW SKIP

You can temporarily override the preview skip in two ways:

- While the VCR is rewinding to the beginning of a preview, press SEARCH/INDEX and the VCR will search for the next preview.
- While the VCR is searching for the next preview and you see the start of a preview you want to watch, press SEARCH/INDEX and MOVIE ADVANCE will reverse back to the start of that preview.

1 INSERT TAPE

Insert a purchased/rented video in Deck 1.

- MOVIE ADVANCE works in Deck 1 only.
- Tapes must be recorded in SP with the record safety tab removed.

2 OPEN "SEARCH MENU"

Press SEARCH/INDEX.

3 "IS THIS A PURCHASED/RENTED MOVIE?"

The VCR will recognize that the tape is missing the record safety tab, but must verify that it is a purchased/rented movie and not a personal recording. Press 1 for "Yes"or 2 for "No."

- If you choose "Yes," continue with Step 4.
- If you choose "No," the tape is a personal recording and MOVIE ADVANCE will not be available. Try the other search features starting on page 33.

4 FIND NEXT PREVIEW OR START OF MOVIE

Press 5 or 6 to select one of the following:

5 - Find Next Preview

The VCR will cue forward and begin playing the first preview. You can either watch the preview, or press SEARCH/INDEX to cue to the next preview, and so on.

- The VCR actually cues slightly past the preview and then rewinds and plays the preview. While the VCR is rewinding, you can override preview skip; see sidebar.

6 - Find Start of Movie

The VCR will cue past all previews and pause at the start of the movie. Press PLAY ► to start the movie.

NOTES

- In "Find Next Preview" mode, you can still advance to the start of a movie. Simply press STOP ■⏏, then press SEARCH/INDEX, then press 6 to select "Find Start of Movie."
- MOVIE ADVANCE® is a trademark of SRT, Inc. A Jerry Iggulden invention licensed in association with Arthur D. Little Enterprises, Inc.

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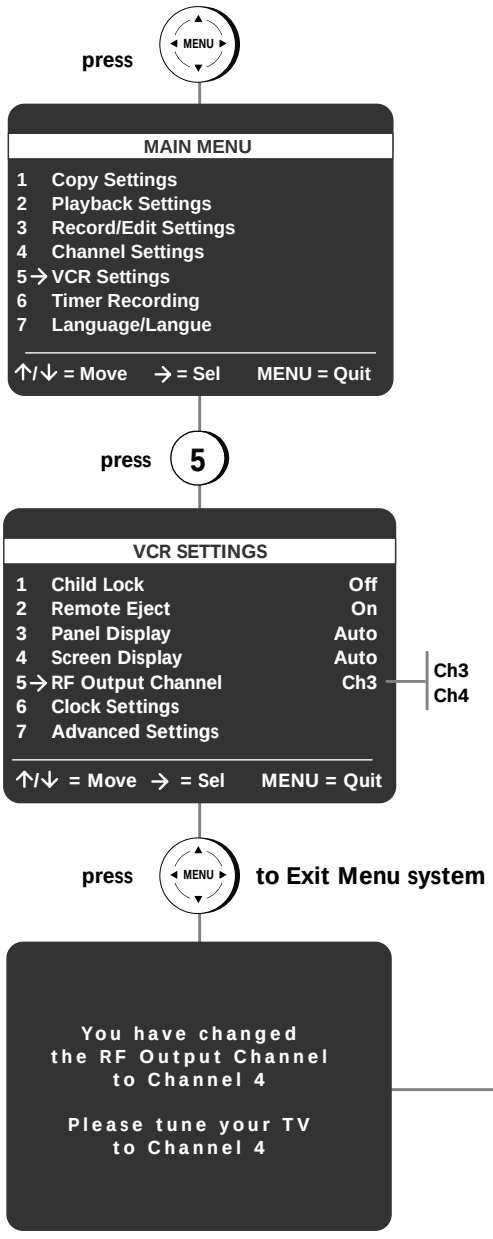
APPENDIX

A ADVANCED CONNECTIONS

This Chapter will show you how to connect additional components, such as a cable box, stereo, or satellite receiver, to your Dual-Deck VCR.

RF OUTPUT CHANNEL

Follow these steps to change the RF Output Channel from 3 (the default) to 4 in the menu system. This feature takes the place of the standard Ch3-4 rear panel switch.



Set TV to channel 3 or 4.

1 OPEN "MAIN MENU"

Press MENU.

2 SELECT "VCR SETTINGS"

Press 5.

3 SET "RF OUTPUT CHANNEL"

Press 5 to set the RF Output Channel to 3 or 4, whichever is not currently in use.

4 EXIT MENU SYSTEM

Press MENU.

- At this point, an alert message will appear for a few seconds reminding you to change your TV to 3 or 4. Locate your TV remote, and proceed with Step 5.

5 CHANGE TV CHANNEL

Set your TV to channel 3 or 4, whichever you selected in Step 3.

- The VCR should function normally.
- If the picture is not improved, repeat this process and return to the previous channel.

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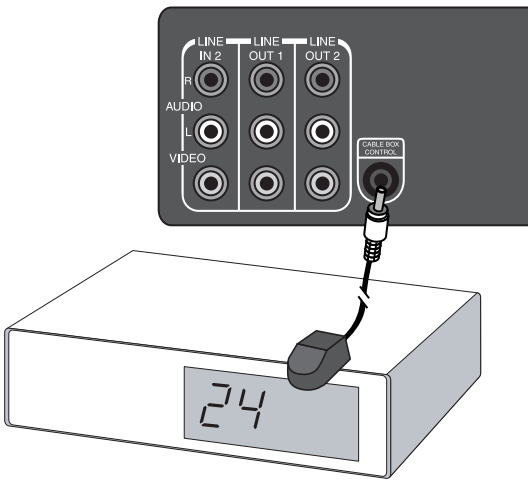
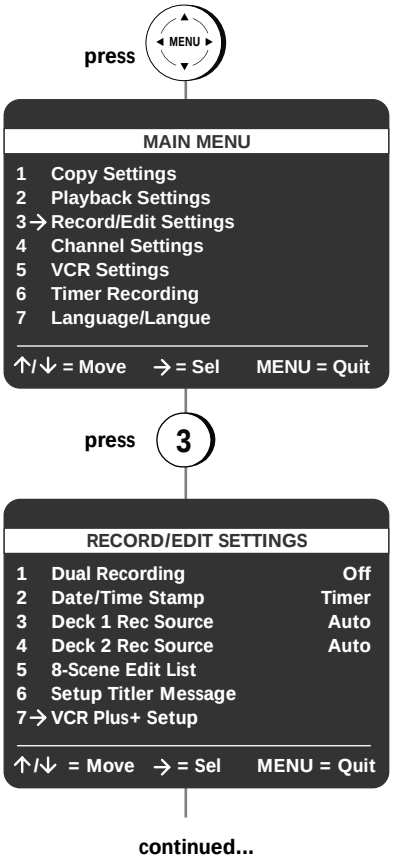
Follow these steps to activate Cable Box Control, which uses the supplied "Cable Mouse" to automatically select channels on your cable box when programming VCR Plus+ or standard Timer Recordings.



Position the Cable Mouse directly over the IR (infrared) remote sensor.



continued...

1 PLUG IN CABLE MOUSE

Plug the supplied Cable Mouse into the Cable Box Control jack on the back of your Dual-Deck VCR.

2 PEEL OFF TAPE COVERING

Peel off the tape covering from the bottom of the Cable Mouse.

3 ATTACH CABLE MOUSE

Position the Cable Mouse on top of the Cable Box directly over the IR (Infrared) sensor. Make sure the front half of the Cable Mouse extends over the front of the Cable Box (see illustration).

4 OPEN "MAIN MENU"

Press MENU.

5 SELECT "RECORD/EDIT SETTINGS"

Press 3.

6 SELECT "VCR PLUS+ SETUP"

Press 7.

7 TURN "CABLE BOX CONTROL" ON

Press the down arrow key until "Cable Box Control" is selected, then press the right arrow key to turn Cable Box Control on.

8 ENTER "CABLE BOX CODE"

Press the down arrow key until "Cable Box Code" is selected, then use the number keys on the remote control to enter the 2-digit code for your brand of cable box from the list on page 38.

- If the code is valid, the cable box will change to Channel 09.
- If the code is invalid try all codes for that brand.
- This VCR may not operate all brands of Cable Box.

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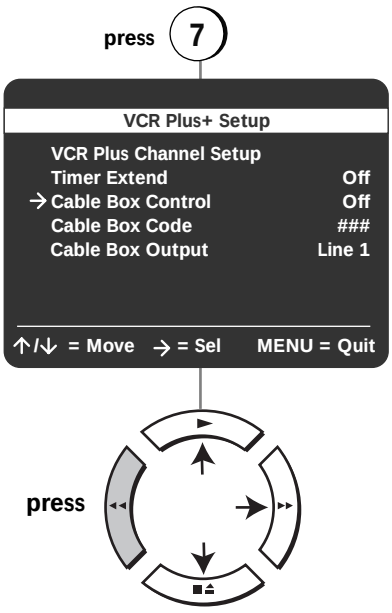
...continued



for ***Cable Box Control***
Cable Box Code
Cable Box Output

9 SET "CABLE BOX OUTPUT"

Press the down arrow key until Cable Box Output is selected, then press the right arrow key to select from the following options:

- **Ch ##** — Indicates that your cable box is connected to the "IN (FROM ANT.)" jack on the VCR back panel and is tuned to Channel 2, 3, or 4. Use the number keys to set the appropriate channel.
- **Line 1** — Indicates that your cable box is connected to the front line inputs.
- **Line 2** — Indicates that your cable box is connected to the rear line inputs.

10 SETUP COMPLETE!

With Cable Box Control enabled, you can set the Record Source for Timer Recordings to the actual cable channel you wish to record (see page 17). The Cable Mouse will send the proper channel to your cable box automatically.

BRAND	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

BRAND	CODE
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
Sylvania	19
Teknika	74
Telecaption	77
Teleview	04,06,42,78
Texscan	18,19
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

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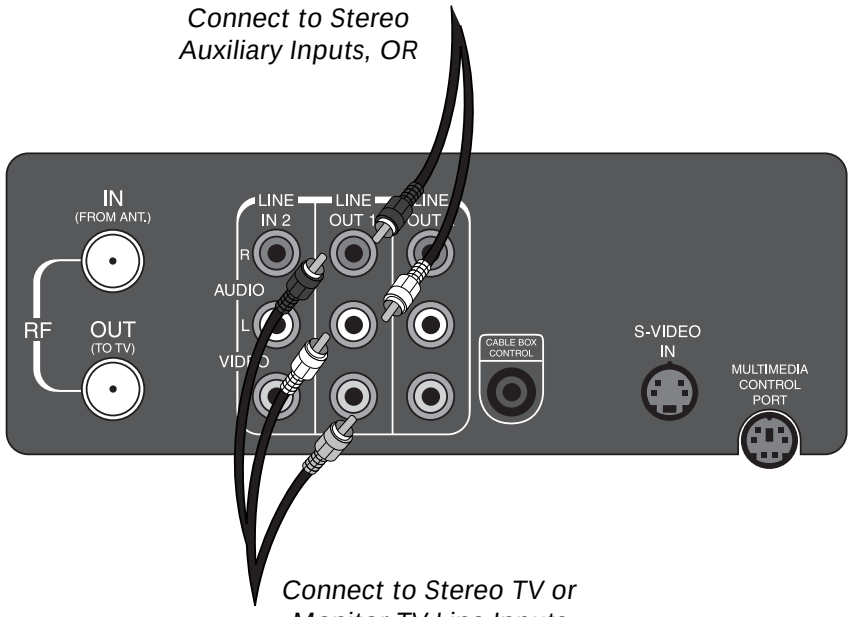
Follow these steps to connect your Dual-Deck VCR to a stereo system, stereo television, or monitor TV.



STEREO CONNECTION

1 CONNECT VCR TO STEREO

Connect RCA cables from the "Line Out 1" audio jacks (R and L) on the back of the VCR to the line inputs on your stereo receiver.

2 SET STEREO TO AUXILIARY MODE

Set your stereo receiver to "Aux" or "Line" (refer to your stereo owner's guide for the proper setting).

STEREO TV/MONITOR TV CONNECTION

1 CONNECT VCR TO STEREO TV/MONITOR TV

Connect RCA cables from the "Line Out 1" audio jacks (R and L) and video jack on the back of the VCR to the line inputs on your stereo television or monitor TV.

2 SET TV TO AUXILIARY MODE

Set your stereo TV/monitor TV to "Aux," "Video," or "Line" (refer to your owner's guide for the proper setting.)

NOTES

- A monitor TV is not the same as a computer monitor.
- Make sure that "Deck 1 Hi-Fi" and "Deck 2 Hi-Fi" are turned on in the menu system; see page 13.
- With this connection, the TV/VCR button on the front panel has no effect. It is as if the TV/VCR button were always set to VCR.

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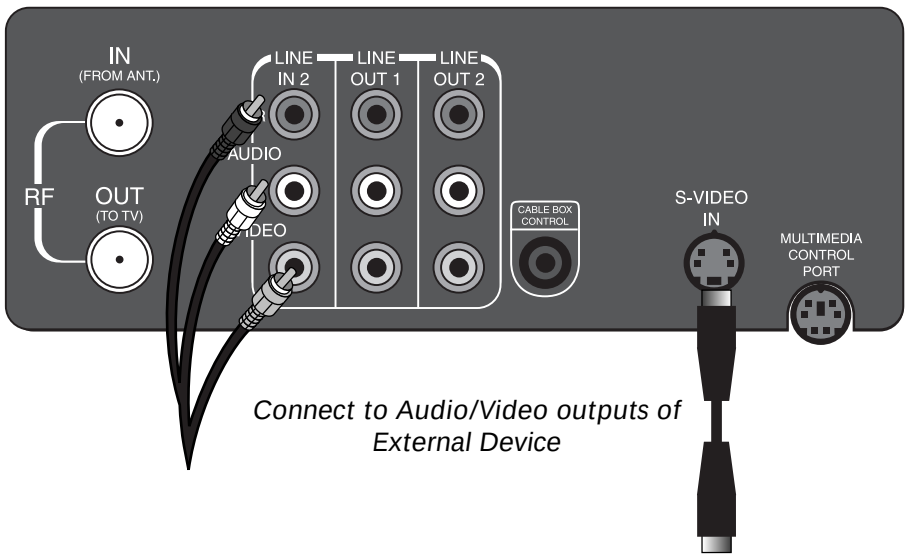
Follow these steps to connect your Dual-Deck VCR to an external audio/video component, such as an additional VCR, laser disc player, DVD player, camcorder, satellite receiver, video game, etc.



Connect to Audio/Video outputs of External Device

1 CONNECT DEVICE TO VCR

Connect RCA or S-Video cables from the audio/video outputs of your external device to the audio /video inputs on the front or back of the VCR.

2 EXTERNAL DEVICE OPTIONS

Once you have connected an external device to your Dual-Deck VCR, you can perform the following functions:

Watch Device

Press TV VIEW until playback from Line 1 (front panel inputs) or Line 2 (rear panel inputs) appears on your TV screen.

Record Device

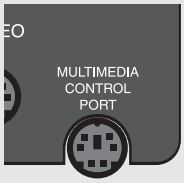
Press TV VIEW until playback from Line 1 (front panel inputs) or Line 2 (rear panel inputs) appears on your TV screen, then press REC on the active deck.

Timer Record From Device

Select Line 1 or Line 2 as your Record Source in the Timer Record menu; see page 17. All other Timer Record settings should be set in the usual manner.

Label Device

You can label the front and rear A/V inputs to match the device you have connected; see page 43.



Go-Port Multimedia Control Port

You can control your Dual-Deck VCR with a PC through the 6-pin Multimedia Control Port. This requires a special software package, called Go-Port, that you can order directly from Sensory Science Corporation. For more information, please contact our Customer Service Department at (480) 922-0896.

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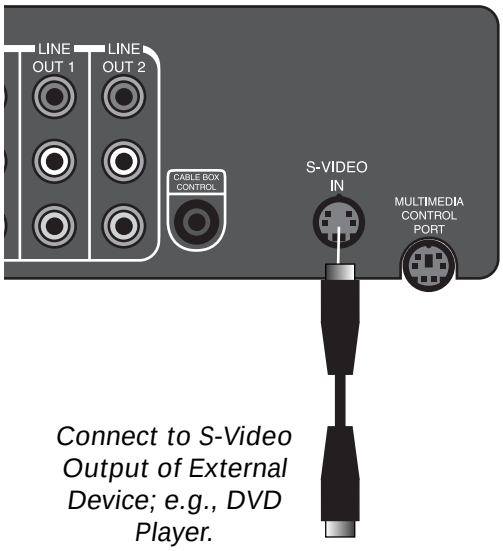
Follow these steps to connect high-end video equipment to the S-Video input on the back of your VCR. You must set "Line 2 Video In" to "S-Vid" in the menu system in order to use this connection.



Connect to S-Video Output of External Device; e.g., DVD Player.

1 CONNECT EXTERNAL DEVICE TO VCR

Connect an S-Video cable from the audio/video output of your external device to the "S-Video In" jack on the VCR rear panel.

2 OPEN "MAIN MENU"

Press MENU.

3 SELECT "VCR SETTINGS"

Press 5.

4 SELECT "ADVANCED SETTINGS"

Press 7.

5 SELECT "LINE 2 VIDEO IN"

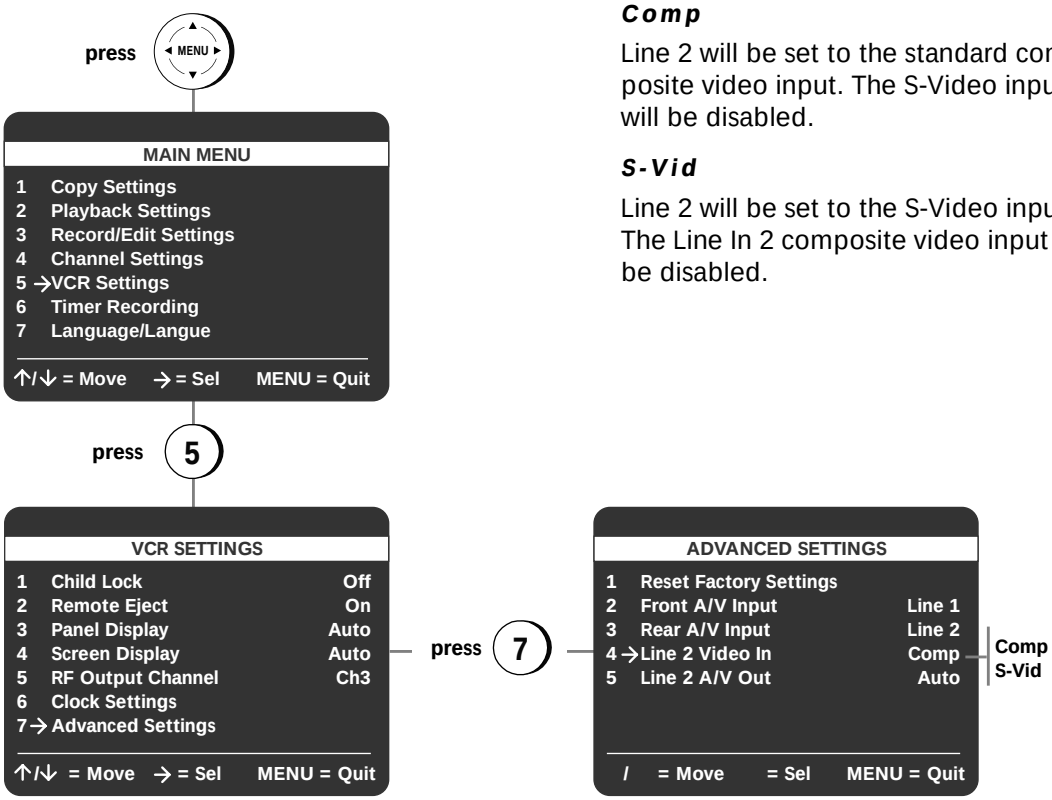
Press 4 to set Line 2 Video In to one of the following:

Comp

Line 2 will be set to the standard composite video input. The S-Video input will be disabled.

S-Vid

Line 2 will be set to the S-Video input. The Line In 2 composite video input will be disabled.



NOTES:

- To use the S-Video In connection, you must turn it on in the menu system.
- You can use either S-Video In OR the Line 2 input, but not both at the same time.

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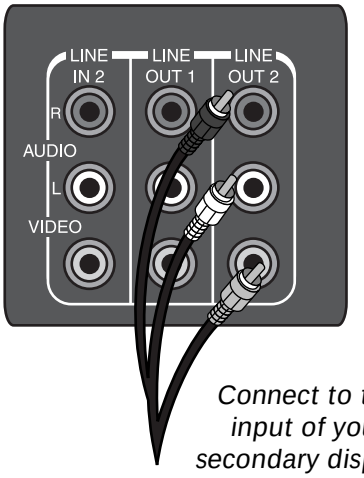
Follow these steps to connect your Dual-Deck VCR to a second display or recording device, such as a TV or additional VCR. This is useful for monitoring both decks while copying or editing.



Connect to the input of your secondary display/ recording device.

1 CONNECT DEVICE TO VCR

Using RCA cables, connect the VCR to a second display or recording device.

2 OPEN "MAIN MENU"

Press MENU.

3 SELECT "VCR SETTINGS"

Press 5.

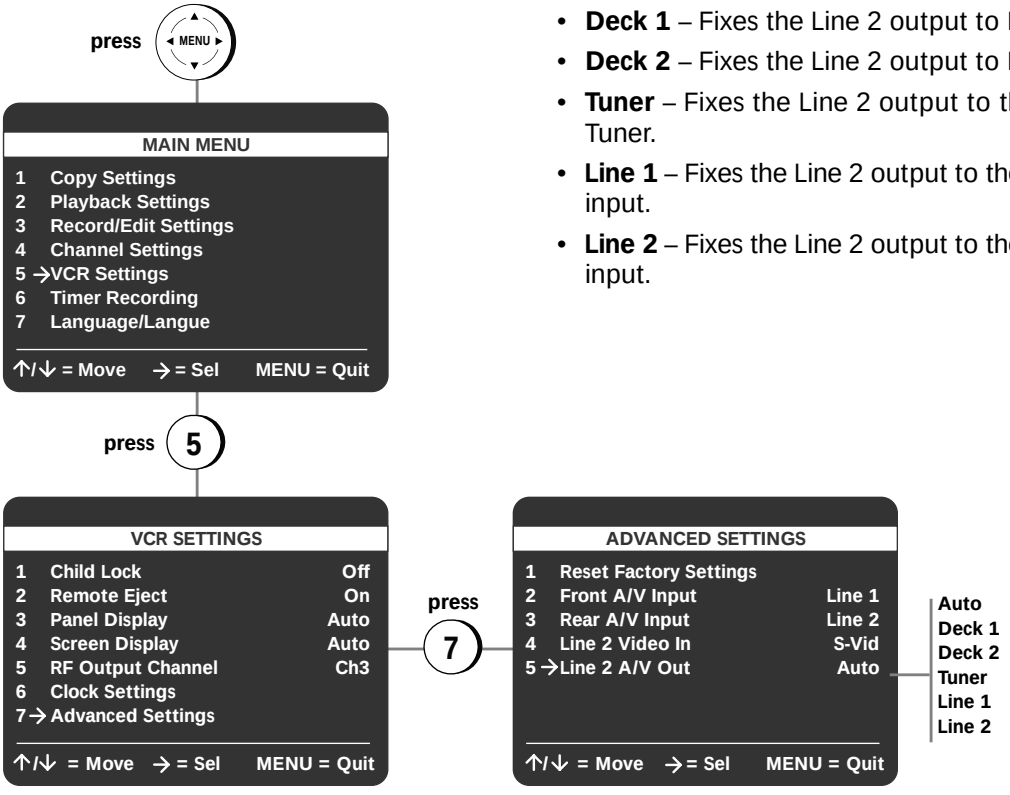
4 SELECT "ADVANCED SETTINGS"

Press 7.

5 SET "LINE 2 A/V OUT"

Press 5 to set "Line 2 A/V Out" to one of the following:

- **Auto** – Automatically sets the Line 2 output to the current TV View (whatever is currently on your television screen).
- **Deck 1** – Fixes the Line 2 output to Deck 1.
- **Deck 2** – Fixes the Line 2 output to Deck 2.
- **Tuner** – Fixes the Line 2 output to the Tuner.
- **Line 1** – Fixes the Line 2 output to the Line 1 input.
- **Line 2** – Fixes the Line 2 output to the Line 2 input.



NOTE:

- The on-screen menu system, on-screen displays, volume and mute functions are not available for the Line 2 A/V Out.

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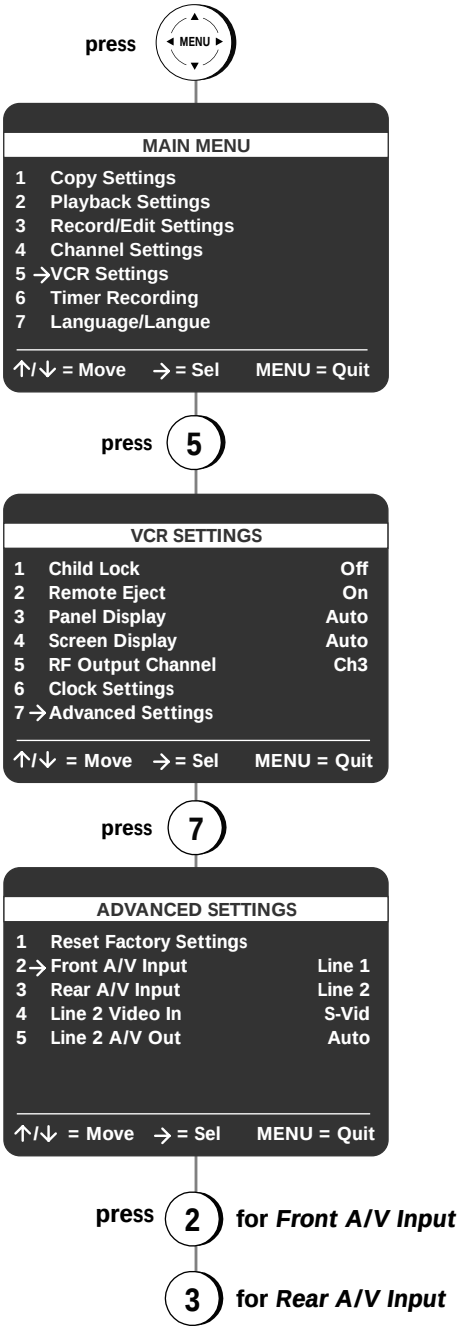
Follow these steps to label the front and rear A/V inputs; e.g., if you have a DVD Player connected to the rear line inputs, you can change the label from "Line 2" to "DVD" throughout the menu system.



1 OPEN "MAIN MENU"

Press MENU.

2 SELECT "VCR SETTINGS"

Press 5.

3 SELECT "ADVANCED SETTINGS"

Press 7.

4 SET "FRONT A/V INPUT"

Press 2 to label the Front A/V Input to one of the following:

- **Line1** – Line 1 (default)
- **Vid1** – Video 1
- **SAT**– Satellite Receiver
- **LD** – Laserdisc Player
- **DVD** – Digital Video Disc Player
- **DSS** – Digital Satellite System
- **VCR3** – Third Video Cassette Recorder
- **CAM** – Camcorder or Videocamera
- **GAME** – Video Game
- **RCVR** – Stereo Receiver
- **TV** – Television

5 SET "REAR A/V INPUT"

Press 3 to label the Rear A/V Input to one of the following:

- **Line2** – Line 2 (default)
- **Vid2** – Video 2
- **SAT**– Satellite Receiver
- **LD** – Laserdisc Player
- **DVD** – Digital Video Disc Player
- **DSS** – Digital Satellite System
- **VCR3** – Third Video Cassette Recorder
- **GAME** – Video Game
- **RCVR** – Stereo Receiver
- **TV** – Television

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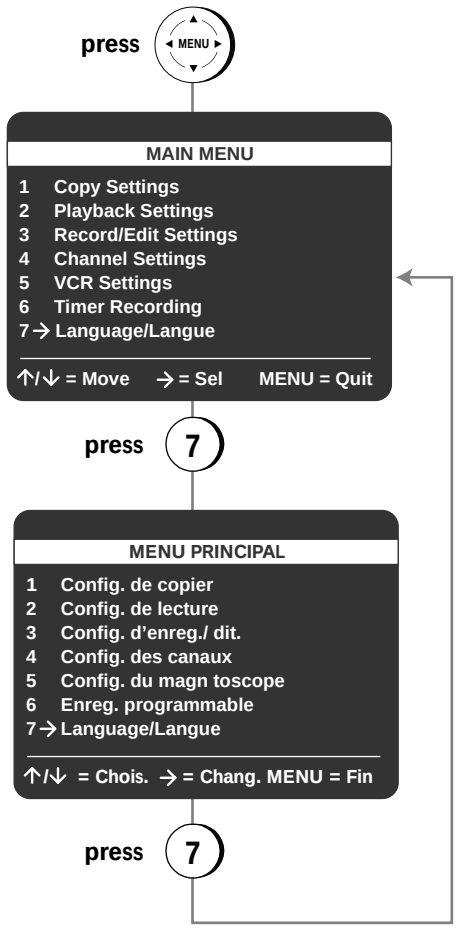
APPENDIX **B**

CUSTOM SETTINGS

This Chapter will show you how to customize your Dual-Deck VCR experience, with settings that affect language, clock, channels, displays and more.

LANGUAGE SETTINGS

Follow these steps to set the on-screen menu language to English or French.



1 OPEN "MAIN MENU"

Press MENU.

2 SELECT LANGUAGE

Press 7 repeatedly to set the on-screen menu language to English or French.

NOTE

- Each time you press 7, the entire Main Menu will be translated into English or French.

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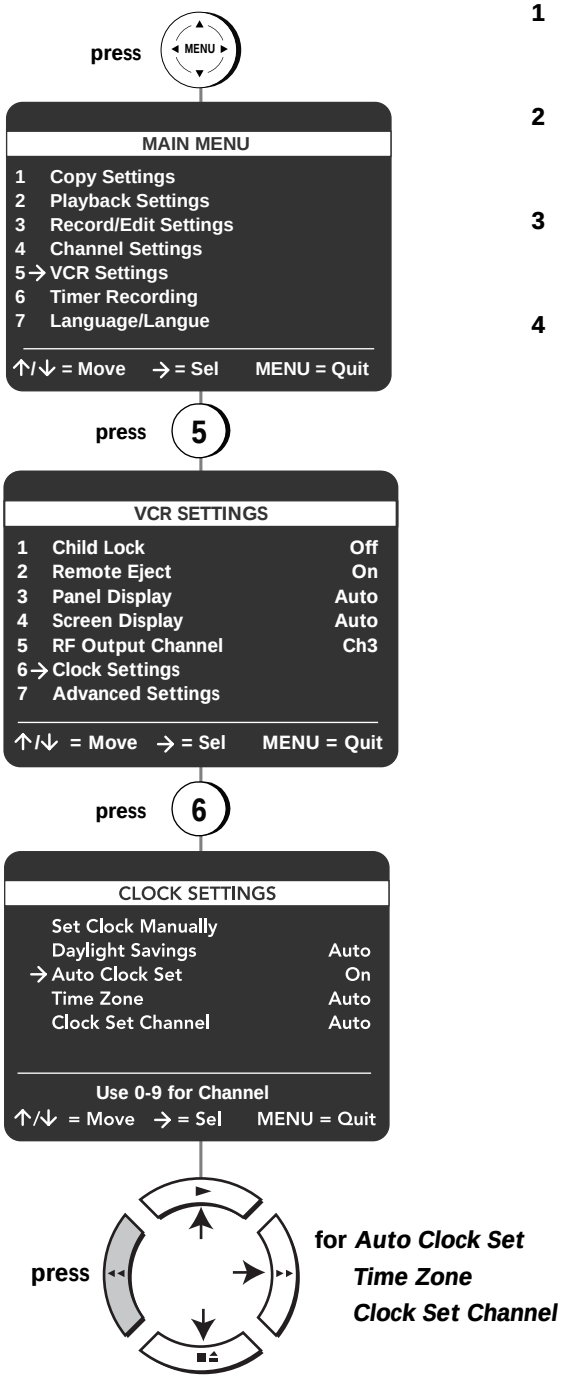
Follow these steps to turn Auto Clock Set on or off. You can also specify the time zone and the channel that Auto Clock Set uses to determine your local time.



1 OPEN "MAIN MENU"

Press MENU.

2 SELECT "VCR SETTINGS"

Press 5.

3 SELECT "CLOCK SETTINGS"

Press 6.

4 ADJUST CLOCK SETTINGS

Use the arrow keys to select and set each of the following:

Daylight Savings

Please refer to page 38.

Auto Clock Set

On – Auto Clock Set will search for a local channel and detect the time automatically.

Off – Auto Clock Set will be disabled. You must set the clock manually.

Time Zone

Auto – Automatically detects your local time zone.

Eastern – Selects Eastern Standard Time.

Central – Selects Central Standard Time.

Mountain – Selects Mountain Standard Time.

Pacific – Selects Pacific Standard Time.

Alaska – Selects Alaska Standard Time.

Hawaii – Selects Hawaii Standard Time.

Clock Set Channel

Auto – Automatically searches for a local channel broadcasting the time via XDS (Extended Data Services).

Ch## –If you know of a station in your area that broadcasts time information, you can set the Auto Clock Set channel manually. Use the 0-9 keys to set the desired channel (usually PBS).

Line 1 – Allows the clock to be set from an audio/video device attached to your VCR's front line input.

Line 2 – Allows the clock to be set from an audio/video device attached to your VCR's rear line input.

NOTE

- If "Auto Clock Set" is off, then "Time Zone" and "Clock Set Channel" will not appear on the "Clock Settings" menu.

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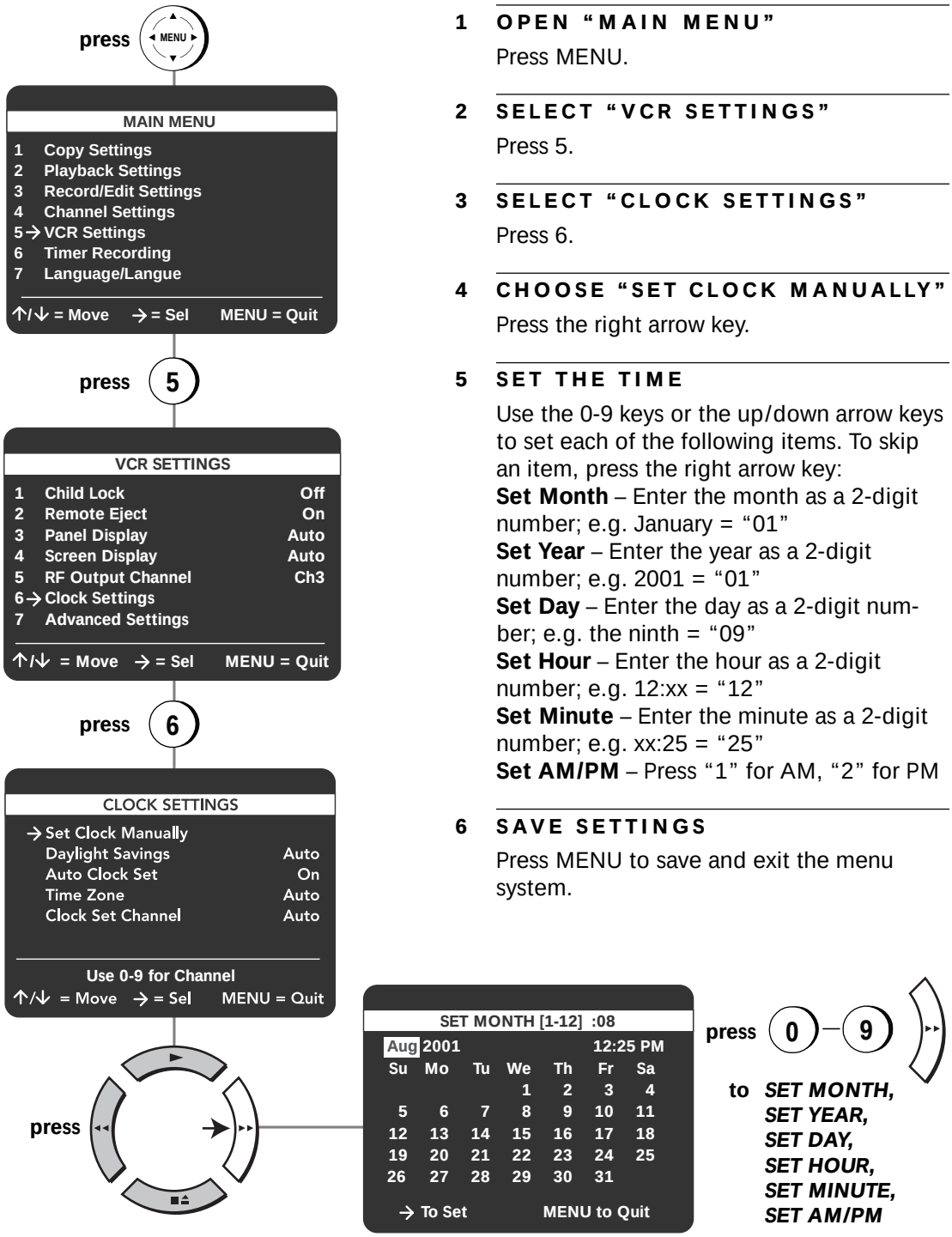
If Auto Clock Set is not available in your area, follow these steps to set the clock manually (see notes below before proceeding).



1 OPEN "MAIN MENU"

Press MENU.

2 SELECT "VCR SETTINGS"

Press 5.

3 SELECT "CLOCK SETTINGS"

Press 6.

4 CHOOSE "SET CLOCK MANUALLY"

Press the right arrow key.

5 SET THE TIME

Use the 0-9 keys or the up/down arrow keys to set each of the following items. To skip an item, press the right arrow key:

Set Month – Enter the month as a 2-digit number; e.g. January = "01"

Set Year – Enter the year as a 2-digit number; e.g. 2001 = "01"

Set Day – Enter the day as a 2-digit number; e.g. the ninth = "09"

Set Hour – Enter the hour as a 2-digit number; e.g. 12:xx = "12"

Set Minute – Enter the minute as a 2-digit number; e.g. xx:25 = "25"

Set AM/PM – Press "1" for AM, "2" for PM

6 SAVE SETTINGS

Press MENU to save and exit the menu system.

NOTES

- If Auto Clock Set is available but has set the time incorrectly, try adjusting Daylight Savings Time (page 42),Time Zone (page 45) and Clock Set Channel (page 45) before setting the clock manually.
- If you choose "Set Clock Manually," then "Auto Clock Set" will automatically turn off, and "Time Zone" and "Clock Set Channel" will be removed from the menu.

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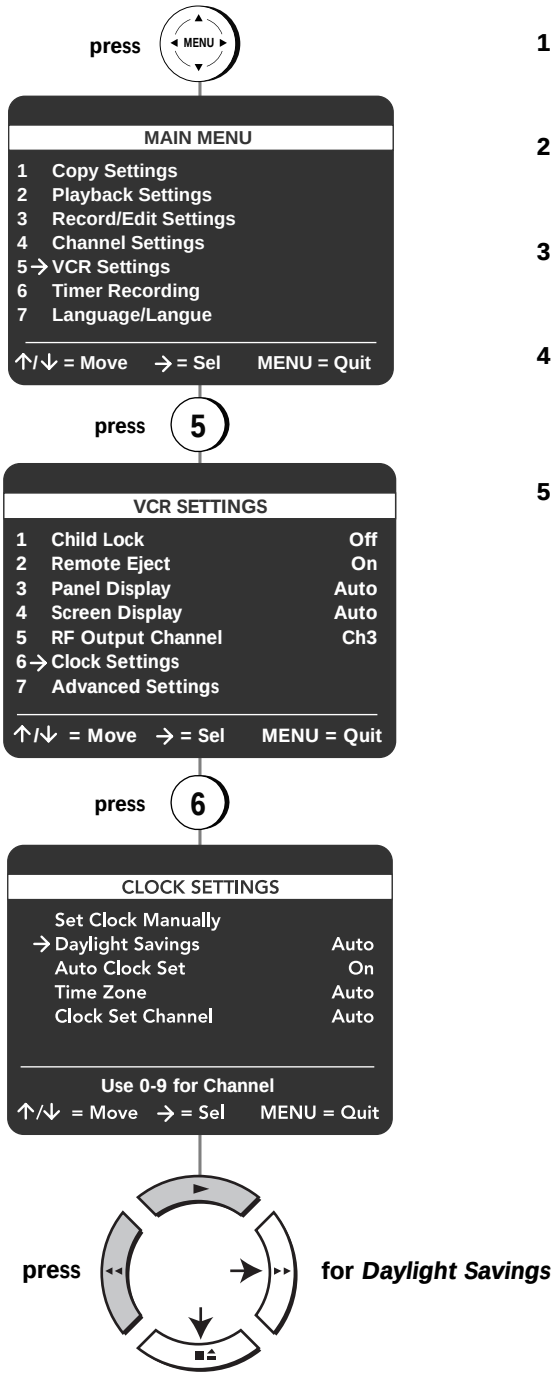
Follow these steps to set Daylight Savings Time manually. You should only set "Daylight Savings" if Auto Clock Set set the time incorrectly.



1 OPEN "MAIN MENU"

Press MENU.

2 SELECT "VCR SETTINGS"

Press 5.

3 SELECT "CLOCK SETTINGS"

Press 6.

4 SELECT "DAYLIGHT SAVINGS"

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

5 ADJUST "DAYLIGHT SAVINGS"

Press the right arrow key to select from the following:

Auto – The VCR will automatically use local channel information to determine the status of Daylight Savings Time in your area, and then set the clock accordingly.

Off – The VCR will not adjust the clock for Daylight Savings Time.

On – The VCR will adjust the clock for Daylight Savings Time as follows: One hour will be added to the time at 2:00 AM on the first Sunday of April and one hour will be subtracted from the time at 2:00 AM on the last Sunday in October.

NOTES

- If "Auto Clock Set" is off, then "Time Zone" and "Clock Set Channel" will not appear on the "Clock Settings" menu.
- If you are an Arizona resident, set "Daylight Savings" to "Off" and set "Time Zone" to "Mountain" (see page 45).

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Follow these steps to set all Channel Settings for your Dual-Deck VCR, including Channel Source, Add/Remove Channel, Show Weak Channels and Channel Audio.

for *Channel Source*
Auto Channel Search
Add/Remove Channel
Show Weak Channels
Channel Audio

1 OPEN "MAIN MENU"

Press MENU.

2 SELECT "CHANNEL SETTINGS"

Press 4.

3 ADJUST CHANNEL SETTINGS

Use the arrow keys to select and set each of the following:

Channel Source

Auto – Automatically detects whether you are receiving channels from antenna or cable.

Antenna – Specifies that you are receiving channels from antenna.

Cable – Specifies that you are receiving channels from cable.

Auto Channel Search

Automatically searches for all available channels and stores them in memory. When finished, the VCR will display the lowest channel found.

Add/Remove Channel

Use the 0-9 keys to enter the channel number you wish to add or remove, then press the right arrow key to add or remove the channel.

Show Weak Channels

Yes – Channels with weak signal strength will be displayed instead of being replaced with a blue screen.

No – A blue screen will appear when a weak channel is received.

Channel Audio

Stereo – Enables stereo sound when available; otherwise, reverts to mono.

Mono – Enables mono sound. Use when connecting the VCR to a mono output device, such as a monitor.

SAP – Second Audio Program, often used to transmit a second language. SAP appears on the front panel display if it is available.

TV+SAP – Outputs mono from the left channel and SAP from the right channel.

Simulcast – Plays the audio signal from the rear line inputs, usually connected to a stereo system.

NOTES

- Use TV+SAP to listen to a second language with headphones while the primary language is played through your TV speakers.
- Use Simulcast to enjoy programs broadcast simultaneously via television and FM radio.

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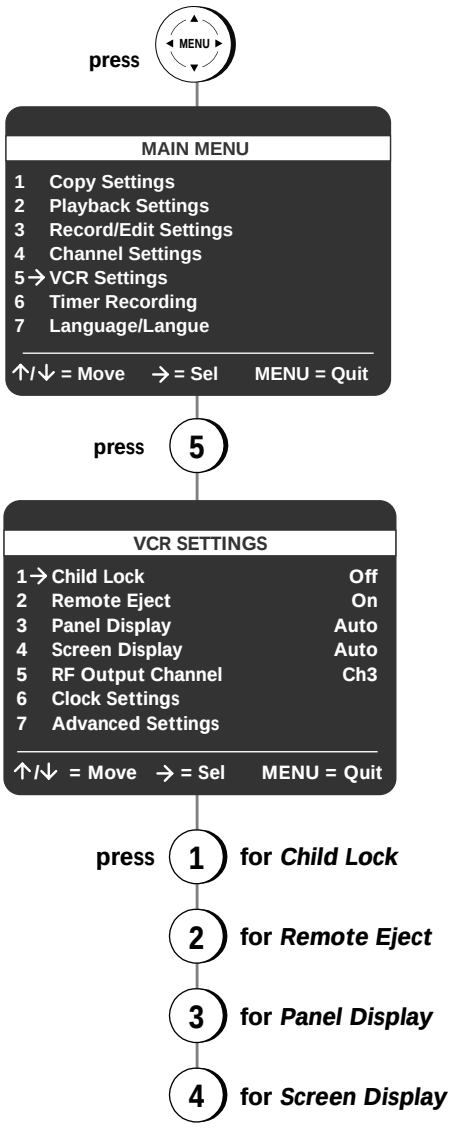
Follow these steps to customize the functionality of the Dual Deck VCR, including Child Lock, Remote Eject, Front Panel Display, On-Screen Display, and RF Output Channel.



1 OPEN "MAIN MENU"

Press MENU.

2 SELECT "VCR SETTINGS"

Press 5.

3 ADJUST VCR SETTINGS

Press 1, 2, 3, or 4 to set each of the following:

1 - Child Lock

Off – The VCR front panel keys will function normally.

On – The VCR front panel keys will be locked to prevent children from tampering with the VCR. Once this feature is enabled, you must use the remote control to operate the VCR.

2 - Remote Eject

On – Allows you to eject tapes by pressing STOP ■≙ on the remote control.

Off – Prevents tapes from being ejected unless you press STOP ■≙ on the front panel.

3 - Panel Display

Auto – The front panel display will be bright from 6:00 a.m. to 10:00 p.m. and dim from 10:00 p.m. to 6:00 a.m.

Bright – The panel display will be bright at all times.

Dim – The panel display will be dim at all times.

Off – The panel display will be off at all times.

4 - Screen Display

On – The entire On-Screen Display (OSD) will be shown each time you press a deck or tuner control key (Play, Stop, Ch+/–, etc.).

Off – The OSD will remain off unless you press DISPLAY.

Auto – The OSD will only show information relevant to the key you pressed.

NOTE

- Child Lock also disables automatic playback of tapes and automatic power on when you insert tapes.

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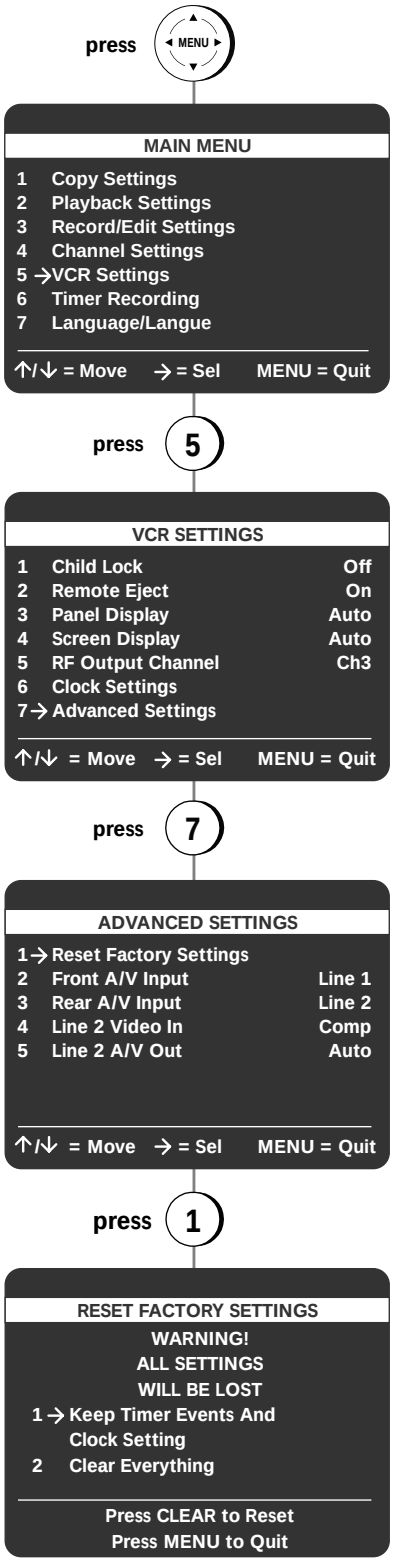
Follow these steps to reset the Dual-Deck VCR to its factory settings. If you wish, you may preserve your clock settings and any saved timer recordings.



1 OPEN "MAIN MENU"

Press MENU.

2 SELECT "VCR SETTINGS"

Press 5.

3 SELECT "ADVANCED SETTINGS"

Press 7.

4 SELECT "RESET FACTORY SETTINGS"

Press 1.

5 DECIDE WHAT TO RESET

Press 1 or 2.

1 – Resets everything except the clock and any saved Timer Recordings.

2 – Clears all VCR settings including the clock and any saved Timer Recordings.

6 RESTORE SETTINGS

Press CLEAR to confirm your decision to reset factory settings; or, press MENU to cancel and exit the menu system.

press 1 ***to Keep Timer Events & Clock Setting***

press 2 to ***Clear Everything, then press*** CLEAR

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APPENDIX

C HELP

This Chapter provides customer support information, as well as a list of frequently asked questions, technical specifications, and the product warranty.

The chart below will help you solve common challenges with your Dual-Deck VCR. If you don't find the answers you need here, you can contact our Customer Service Department as follows:

Phone:	(480) 922-0896
Office hours:	Monday-Friday, 6:00 a.m. to 9:00 p.m. MST Saturday-Sunday, 8:00 a.m. to 4:00 p.m. MST
E-Mail:	"customerservice@sensoryscience.com"
Web:	"www.govideo.com" or "www.sensoryscience.com"

SYMPTOM	SOLUTION(S)
No picture.	• Press TV/VCR until VCR indicator lights on front panel display. • Set RF Output to channel 4; see page 36.
Poor picture quality.	• Set RF Output to channel 4; see page 36. • Adjust tracking with AUTO and TRK up/down keys. • Clean video heads with non-abrasive head cleaning tape.
Remote not working.	• Remove all obstacles and point directly at VCR. • Make sure batteries are fresh and properly installed. • Press VCR key. Note: If you press TV key by accident, remote will only operate TV.
Remote won't operate TV.	• Program the remote control for your brand of TV; see page 4. • Press the TV key. • Remote control doesn't operate every TV function. Some TV brands only respond to limited number of functions.
On-screen display shows "Error".	• Turn power off, then turn power on again. • Inspect tape slots for foreign objects.
VCR doesn't work.	• Unplug VCR for 10 seconds, then plug it in again. • If still doesn't work, unplug VCR for at least 15 minutes, then plug it in again. Note: If the clock is still set, you haven't unplugged it long enough. • If still doesn't work, VCR must be serviced by an authorized service center.
Cannot record from cable box.	• Set VCR to cable box output channel 2, 3 or 4, then select desired channel on cable box.

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SYMPTOM	SOLUTION(S)
Cannot Timer Record.	• Set clock to correct time; see page 46. • If using cable box, turn on Cable Box Control in menu system; see page 37.
Copy speeds do not match.	• Turn Speed Matching on; see page 11.
Tape ejects during copy or record.	• Place piece of tape over record safety tab opening.
VCR automatically plays and rewinds.	• To turn Auto Play/Rewind off; see page 13. • Turn EZ-Copy off; see page 11.
8-Scene Edit List not working.	• Insert source tape in Deck 1. • 8-Scene Edit List is unavailable while copying a tape.
Cannot eject tapes with remote.	• Turn on Remote Eject in menu system; see page 49. • Remote eject is unavailable if scenes are programmed in 8-Scene Edit List. Clear scenes from Edit List or press STOP ■≙ on front panel to erase scenes automatically.
Cannot reset Deck 1 tape counter.	• Deck 1 counter reset is unavailable if scenes are programmed in 8-Scene Edit List. Clear scenes from Edit List or press STOP ■≙ on front panel to erase scenes automatically.
Tape counters not moving.	• To display tape counters, the VCR requires control track, which is only present on precorded tapes.
No menu or On-Screen Displays.	• Tape may be blank (“snow” appears on screen). If so, menus and On-Screen Display cannot be shown. Stop tape or record on tape to enable displays. • Remote may be set to control TV and not VCR. Press VCR key to reactivate it. • Date/Time Stamp may be set to “Cont” (Continuous) with recording in progress. Press STOP ■≙ on recording deck to restore normal on-screen functions; see page 15.
TV shows blue screen.	• If current channel is too weak to display clear picture, VCR will display blue screen. To show weak channels, see page 48. • Double-check antenna connections or tuner settings.
Front panel display blinking.	• VCR is in Auto Power Off mode. If you press POWER while rewinding, copying, Timer Recording, One-Touch Recording or EZ-Copying, VCR will automatically turn off when the given function is complete. • Press POWER to toggle Auto Power on and off.
Copy blinking on front panel display.	• Indicates deck is paused while copying tape.
No stereo sound.	• Connect TV and VCR with RCA line cables. If your TV and VCR are connected with an RF coaxial cable, you will only hear stereo sound if VCR is turned off.
No sound on Timer Recording.	• Record source was accidentally set to Ch##s, Simulcast. Select the tuner channel without simulcast; see page 17.

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The following are the technical specifications for your Dual-Deck VCR.

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; Hi-Fi: 2 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: <2 minutes
HEADS	Video: DA 4 rotary heads
	Audio: 2 rotary heads (Hi-Fi); 1 stationary head (Linear)
	Control: 1 stationary head
	Erase: 1 full track, 1 audio track; 2 Flying Erase Heads on Deck 2
VIDEO	Input: RCA Type, 75 ohms unbalanced, 1 V P-P (x2)
	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 (x2)
	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 1-125. 75 ohm unbalanced F-type connector.
	S/N Ratio: Better than 68 dB (Hi-Fi)
WOW & FLUTTER	Less than 0.005% (Hi-Fi)
RF MODULATION	Channel 3 or 4
FREQUENCY RESPONSE	20-20,000 Hz (Hi-Fi)
POWER REQUIREMENT	120V AC, 60 Hz, 32 watts maximum
ENVIRONMENT	41-104 F (5-40 C); 10%-75% humidity
DIMENSIONS	534 x 324 x 102 mm (21" x 12 3/4" x 4")
WEIGHT	5.0 kg (11.1 lbs.)

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DUAL-DECK VCR LIMITED WARRANTY

Who Provides the Limited Warranty

During the warranty period, the Sensory Science 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 Sensory Science product.

What is Covered and How Long

This warranty covers internal operating parts and service/labor to repair or replace covered parts in this Sensory Science 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 Sensory Science 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 Sensory Science product.

What the Owner Must Do If Service is Required

If service under this warranty is required, contact the Sensory Science Warranty Administrator at (480) 922-0896 to determine the nearest authorized Sensory Science 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) Sensory Science product which has been electronically or mechanically modified in any way or incorporated into other products. (6) Installation and setup service adjustments. (7) Owner instruction. Your Owner's Guide provides information regarding operating instructions and user controls. For additional information, contact your authorized Sensory Science 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.

SENSORY SCIENCE WARRANTY ADMINISTRATOR

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

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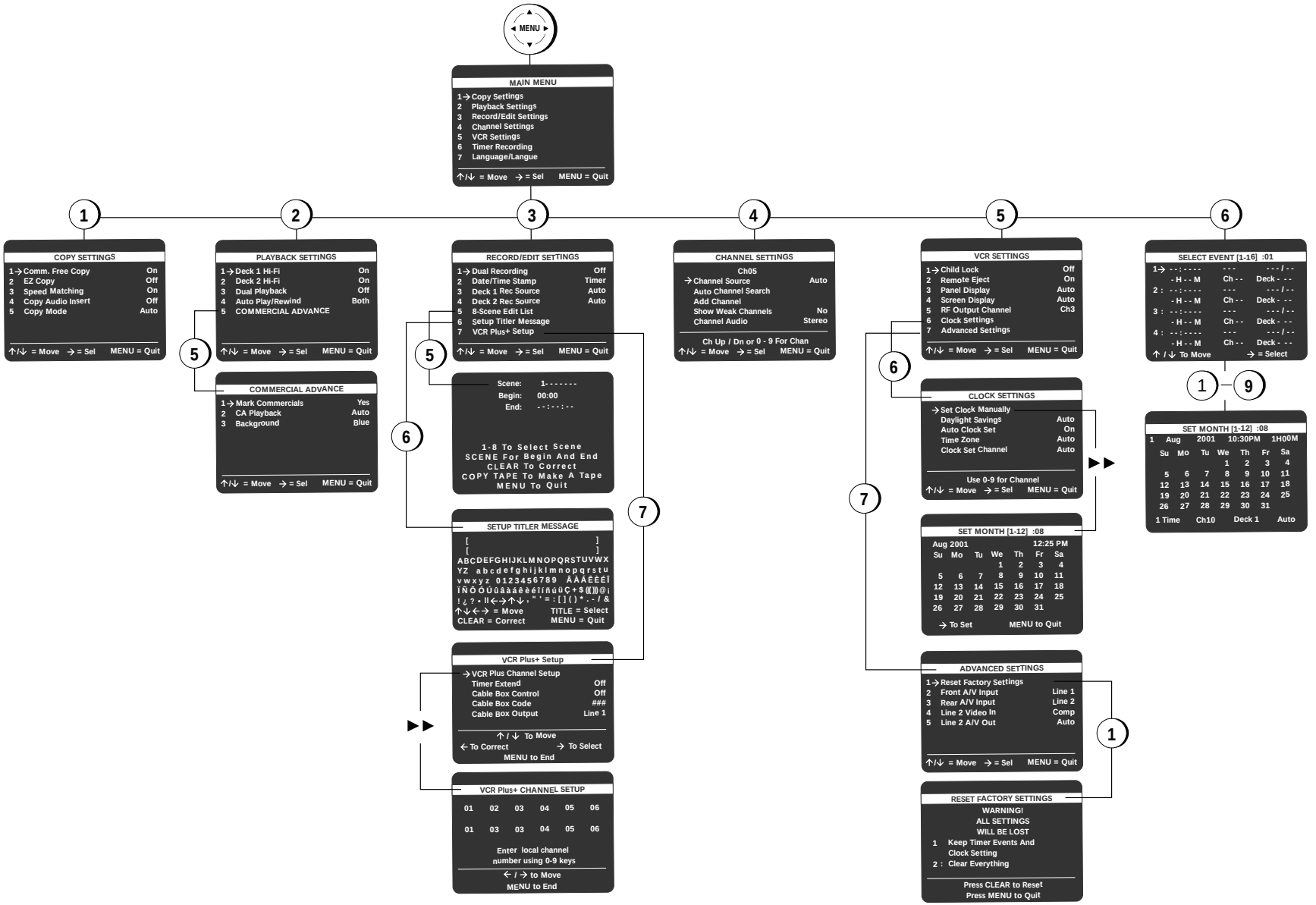
DDV2120 MENU SYSTEM



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Thank you for purchasing this Sensory Science Dual-Deck VCR!

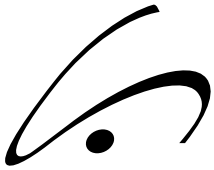
Sensory Science specializes in developing and marketing innovative digital entertainment products, including digital televisions, Internet media players, DVD players, and high-end home theater components for the digital living room. We take pride in our ability to deliver unparalleled customer support, and are honored to have received the prestigious *Inside Track* award for Supplier Loyalty two years running. Should you have any questions, feel free to contact us using one of the methods listed below:

Any Questions . . . . . ?

WEB www.sensoryscience.com

E-MAIL vcrhelp@sensoryscience.com

PHONE 1-800-SENSORY



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