



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ZENITH XBV243. You'll find the answers to all your questions on the ZENITH XBV243 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual ZENITH XBV243**  
**User guide ZENITH XBV243**  
**Operating instructions ZENITH XBV243**  
**Instructions for use ZENITH XBV243**  
**Instruction manual ZENITH XBV243**

**Installation and Operating Guide | Warranty**  
Model Number | XBV243 | DVD Player + Video Cassette Recorder



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**Manual abstract:**

These limits are designed to provide reasonable protection against harmful interference when the product is operated in a residential installation. This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna. Increase the separation between the product and receiver.

Connect the product into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help. FCC COMPLIANCE: The responsible party for this product's compliance is: Zenith Electronics Corporation, 2000 Millbrook Drive, Lincolnshire, IL 60069, USA. Phone: 1-847-941-8000 WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. This lightning flash with arrowhead symbol within an equilateral triangle 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 a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product. WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE. CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT. ATTENTION: POUR ÉVITER LES CHOC ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND. WARNING: Do not install this equipment in a confined space such as a bookcase or similar unit.

NOTE TO CABLE/TV INSTALLER: This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code 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 the cable entry as practical.

CAUTION: This DVD+VCR employs a Laser System. To ensure proper use of this product, please read this owner's manual carefully and retain for future reference. Should the unit require maintenance, contact an authorized service location. Use of controls, adjustments, or the performance of procedures other than those specified herein may result in hazardous radiation exposure. To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when open. DO NOT STARE INTO BEAM. NOTES ON COPYRIGHTS: It is forbidden by law to copy, broadcast, show, broadcast via cable, play in public, or rent copyrighted material without permission. This product features the copy protection function developed by Macrovision. Copy protection signals are recorded on some discs.

When recording and playing the pictures of these discs on a VCR, picture noise will appear. This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited. SERIAL NUMBER: The serial number is found on the back of this unit. This number is unique to this unit and not available to others. You should record requested information here and retain this guide as a permanent record of your purchase. Model No.

Serial No. \_\_\_\_\_ 2 IMPORTANT SAFETY INSTRUCTIONS

INTRODUCTION CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS IN THIS OWNER'S MANUAL AND THOSE MARKED ON THE UNIT. RETAIN THIS BOOKLET FOR FUTURE REFERENCE. This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard.

The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use, and servicing. This unit does not contain any parts that can be repaired by the user. DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY. 1.

Read These Instructions All the safety and operating instructions should be read before the product is operated. 2. Follow All Instructions All operating and use instructions should be followed. 3. Keep These Instructions The safety and operating instructions should be retained for future reference. 4. Heed All Warnings All warnings on the product and in the operating instructions should be adhered to. 5. Power Sources This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.

For products intended to operate from battery power, or other sources, refer to the operating instructions. 6. Grounding or Polarization Do not defeat the safety purpose of the polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. 7. Ventilation Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface.

This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to. 8. Heat The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat. 9. Water and Moisture Do not use this product near water for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

10. Cleaning Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.



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Use a damp cloth for cleaning. 11.

**Power-Cord Protection** Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product. **Electric Service Equipment** 12. **Overloading** Do not overload wall outlets, extension cords, or integral convenience receptacles, this can result in a risk of fire or electric shock. 13. **Outdoor Antenna Grounding** If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (U.S.A), ANSI/NFPA 70 provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. **EXAMPLE OF GROUNDING ACCORDING TO NATIONAL ELECTRICAL CODE INSTRUCTIONS** Antenna Lead in Wire Ground Clamp Antenna Discharge Unit (NEC Section 810-20) Grounding Conductors (NEC Section 810-21) Ground Clamps Power Service Grounding Electrode System (NEC Art 250, Part H) NEC - NATIONAL ELECTRICAL CODE 14. **Lightning** Unplug this apparatus during lightning storms or when unused for long periods of time.

This will prevent damage to the product due to lightning and power-line surges. 15. **Power Lines** An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal. 16. **Object and Liquid Entry** Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product. 17. **Attachments** Do not use attachments not recommended by the product manufacturer as they may cause hazards. 3 **IMPORTANT SAFETY INSTRUCTIONS (Continued)** 18.

**Accessories, Carts, and Stands** Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. 19.

**Damage Requiring Service** Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions: a. If the power-supply cord or plug is damaged. b. If liquid has been spilled, or objects have fallen into the product. c. If the product has been exposed to rain or water. d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation. e. If the product has been dropped or the cabinet has been damaged. f. If the product exhibits a distinct change in performance. 20. **Servicing** Do not attempt to service this product yourself as opening or removing the cover may expose you to dangerous voltage or other hazards.

Refer all servicing to qualified service personnel. 21. **Replacement parts** When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards. 22. **Safety Check** Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition. 23. **Disc Tray** Keep your fingers well clear of the disc tray as it is closing. It can cause personal injury. 24.

**Burden** Do not place a heavy object on or step on the product. The object may fall, causing serious personal injury and serious damage to the product. 25. **Connecting** When you connect the product to other equipment, turn off the power and unplug all of the equipment from the wall outlet. Failure to do so may cause an electric shock and serious personal injury.

Read the owner's manual of the other equipment carefully and follow the instructions when making any connections. 26. **Sound Volume** Reduce the volume to the minimum level before you turn on the product. Otherwise, sudden high . .

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..... 27 Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. Copyright 1992-1997 Dolby Laboratories. All rights reserved.

DTS and DTS Digital Out are trademarks of Digital Theater Systems, Inc. 5 INTRODUCTION Before Use Playable Discs DVD (8 cm/12 cm disc) Audio CD (8 cm/12 cm disc) In addition, this unit can play a CD-R or CD-RW that contains audio titles or MP3 files. Notes Depending on the conditions of the recording equipment or the CD-R/RW disc itself, some CD-R/RW discs cannot be played on the unit. The unit cannot play discs that contain data other than MP3 and CD-DA data.



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*Do not attach any seal or label to either side (the labeled side or the recorded side) of a disc.*

*Do not use irregularly shaped CDs (e.g., heartshaped or octagonal). It may result in malfunctions. Notes on DVDs Some playback operations of DVDs may be intentionally fixed by software manufacturers.*

*As this unit plays DVDs according to disc content designed by the software manufacturer, some playback features of the unit may not be available or other functions may be added. Refer also to the instructions supplied with the DVDs. Some DVDs made for business purposes may not be played on the unit. Regional code of the DVD+VCR and DVDs This DVD+VCR is designed and manufactured for playback of Region 1 encoded DVD software. The region code on the labels of some DVD discs indicates which type of DVD+VCR can play those discs. This unit can play only DVD discs labeled 1 or ALL. If you try to play any other discs, the message "Check Regional Code" will appear on the TV screen. Some DVD discs may not have a region code label even though their playback is prohibited by area limits. Disc-related terms Title (DVD only) The main film content or accompanying feature content or music album. Each title is assigned a title reference number enabling you to locate it easily.*

*Chapter (DVD only) Sections of a picture or a musical piece that are smaller than titles. A title is composed of one or several chapters. Each chapter is assigned a chapter number to enable you to locate the chapter you want. Depending on the disc, chapters may not be labelled. Track (audio CD only)*

*Sections of a musical piece on an audio CD. Each track is assigned a track number, enabling you to locate the track you want. Remote control battery installation Detach the battery cover on the rear of the remote control, and insert two R03 (size AAA) batteries with and aligned correctly. AAA Caution Do not mix old and new batteries. Never mix different types of batteries (standard, alkaline, etc.).*

*Remote Control Operation Range Point the remote control at the remote sensor and press the buttons. Distance: About 23 ft (7 m) from the front of the remote sensor Angle: About 30° in each direction of the front of the remote sensor IMPORTANT NOTE: SPENT OR DISCHARGED BATTERIES MUST BE RECYCLED OR DISPOSED OF IN A SAFE MANNER IN COMPLIANCE WITH ALL APPLICABLE LAWS. FOR DETAILED INFORMATION, CONTACT YOUR LOCAL COUNTY SOLID WASTE AUTHORITY. AAA 1 Note on DTS-encoded CDs When playing DTS-encoded CDs, excessive noise may be exhibited from the analog stereo output. To avoid possible damage to the audio system, turn down the volume before playing back such discs, adjust the volume gradually, and keep the volume level low.*

*To enjoy DTS Digital Surround™ playback, an external 5.1 channel DTS Digital Surround™ decoder system must be connected to the digital output of the unit. 6 Before Use (Continued) Precautions Handling the unit When shipping the unit The original shipping carton and packing materials come in handy. For maximum protection, re-pack the unit as it was originally packaged at the factory. When setting up the unit The picture and sound of a nearby TV, VCR, or radio may be distorted during playback.*

*In this case, position the unit away from the TV, VCR, or radio, or turn off the unit after removing the disc. To keep the surface clean Do not use volatile liquids, such as insecticide spray, near the unit. Do not leave rubber or plastic products in contact with the unit for a long period of time. They will leave marks on the surface. Cleaning discs Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center outward. Yes No Do not use strong solvents such as alcohol, benzene, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records. About Symbols About the symbol display Cleaning the unit To clean the cabinet Use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution.*

*Do not use strong solvents such as alcohol, benzene, or thinner, as these might damage the surface of the unit. To obtain a clear picture The DVD+VCR is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn, the picture quality will be poor. Regular inspection and maintenance are recommended after every 1,000 hours of use. (This depends on the operating environment.) For details, please contact your nearest dealer. " may appear on the TV screen during operation. This icon means the function explained in this owner's manual is not available on that specific DVD video disc. About the disc symbols for instructions A section whose title has one of the following symbols are applicable only to those discs represented by the symbol. DVD DVD CD Audio CDs.*

*MP3 MP3 Discs. Setting the Output Source You must select one of your output sources (DVD or VCR) to view on the TV screen. · If you want to view output from the DVD deck: Press DVD on the remote or DVD/VHS on the front panel until DVD indicator on the front panel lights and output from the DVD deck is viewed on the TV screen. · If you want to view from the VCR deck: Press VHS on the remote or DVD/VHS on the front panel until VHS indicator on the front panel lights and output from the VCR deck is viewed on the TV screen. · If you use OUTPUT SELECT button on the remote control to select output source: Cycles through the 3 main output views: DVD, Tuner and VCR.*

*DVD: To view the current DVD deck status. (disc playback, DVD menu or setup menu, etc) Tuner: To view TV programs through TV tuner. VCR: To view the current VCR deck status (tape playback, VCR programming or viewing TV programs through the VCR tuner, etc). Notes on Discs Handling discs Do not touch the playback side of the disc. Hold the disc by the edges so that fingerprints will not get on the surface.*

*Do not stick paper or tape on the disc. Storing discs After playing, store the disc in its case. Do not expose the disc to direct sunlight or sources of heat, or leave it in a parked car exposed to direct sunlight, as there may be a considerable temperature increase inside the car. 7 INTRODUCTION Front Panel*

*EJECT Ejects the tape in the VCR deck. Forward SKIP/SCAN DVD: Go to NEXT chapter/track. Press and hold for two seconds for a fast forward search. VCR: Advances the tape during the STOP mode or for fast forward picture search. Reverse SKIP/SCAN DVD: Go to beginning of current chapter/track or to previous chapter/track. Press and hold for a fast reverse search. VCR: Rewinds the tape during the STOP mode or for fast reverse picture search.*

*Cassette Compartment (VCR deck) Insert a video cassette here. Remote Sensor Point the DVD+VCR remote control here. Display window Shows the current status of the DVD+VCR. OPEN/CLOSE Opens or closes the disc tray.*



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Disc Tray (DVD deck) Insert a disc here. VIDEO IN/AUDIO IN (Left/Right) Connect the audio/video output of an external source (Audio system, TV/Monitor, Another VCR). vV CHANNEL (v/V) To scan up or down through memorized channels. REC/ITR To record normally or to activate Instant Timer Recording. COPY Press to copy a DVD in the DVD deck to a VHS tape in the VCR deck. DVD/VHS Toggles control between the DVD deck and the VCR deck.

DVD/VHS indicator Indicates the active deck. POWER Switches the DVD+VCR ON and OFF. PLAY To play back a recorded tape. STOP Stops playback. PAUSE/STEP Pause playback or recording temporarily/ press repeatedly for frame-by-frame playback.

8 Display Window DVD DVD inserted. CD Audio CD inserted. A y B Indicates A-B repeat mode. ALL Indicates repeat all mode. ANGLE active. MP3 MP3 disc inserted. PROG. Programmed playback active. TITLE Indicates current title number. CHP/TRK Indicates current chapter or track number. VCR DVD+VCR functions are available and channels are selected at DVD+VCR. TIMER DVD+VCR is in timer recording or a timer recording is programmed. REC DVD+VCR is Recording. CDREC DVD to VCR copy is in progress. A B ALL MP3 CD DVD ST SAP CH SP LP EP PROG.

TITLE CHP/TRK VCR TIMER REC CDREC HI-FI CH DVD+VCR is tuned to Channel XX. SAP Indicates when a SAP BILINGUAL broadcast is being received. ST Indicates a stereo broadcast is being received. Indicates total playing time, elapsed time, remaining time or current deck status (Playback, Pause, etc). HI-FI Indicates the unit is playing back a tape recorded in Hi-Fi. SP LP EP Displays the recording and playback speed. AM Indicates AM time. (PM is not displayed.) A cassette is in the VCR deck. 9 INTRODUCTION Remote Control DVD/VHS select button Select the output source (DVD or VCR) to view on the TV screen.

Z OPEN/CLOSE, EJECT (Z) - Opens and closes the disc tray. - Ejects the tape in the VCR deck. POWER Switches DVD+VCR ON and OFF. OUTPUT SELECT Cycles through the 3 main output views: DVD, Tuner and VCR. TV/VCR To view channels selected by the VCR tuner or by the TV tuner. SELECT/ENTER - Acknowledges menu selection. - Displays functions on the TV screen. POWER OPEN/CLOSE EJECT DISPLAY, CLK/CNT Accesses On-Screen display. Switches among the clock, tape counter and tape remaining modes on the display. DISC MENU Accesses menu on a DVD disc. b/B/v/V (left/right/up/down) - Selects an option in the menu - CH/TRK (v/V): Selects channel of VCR. Adjusts manually the tape's picture onscreen. TV/VCR DVD VHS OUTPUT SELECT INPUT To select the VCR deck's source (Tuner, LINE 1, or LINE 2). DISPLAY CH/TRK DISC MENU CLK/CNT > FORWARD (>) INPUT SELECT SETUP, MENU Accesses or removes DVD setup menu and VCR menu. SETUP /MENU ENTER CH/TRK TITLE PAUSE/STEP STOP REC/ITR DVD; Search forward\*/go to next chapter or track. VCR; Advances the tape during the STOP mode or for fast forward picture search. TITLE Displays the disc's Title menu, if available. BACKWARD PLAY FORWARD H PLAY (H) Starts playback. PROGRAM X PAUSE/STEP (X) Pause playback or recording temporarily/press repeatedly for frame-by-frame playback. .

BACKWARD (.) DVD; Search backward\*/go to beginning of current chapter or track or go to previous chapter or track. VCR; Rewinds the tape during the STOP mode or for fast reverse picture search. \* Press and hold button for about two seconds. CLEAR x STOP (x) Stops playback. AUDIO SUBTITLE MARKER SEARCH ANGLE RETURN ZOOM z REC/ITR (z) Records normally or activates Instant Timer Recording. REPEAT RANDOM A-B CM SKIP SPEED PROGRAM Accesses or removes Program menu. 0-9 numerical buttons Selects numbered options in a menu. CLEAR Removes a track number on the program menu or a mark on the MARKER SEARCH menu. AUDIO Selects an audio language (DVD) or an audio channel (CD). SUBTITLE Selects a subtitle language. ANGLE Selects a DVD camera angle if available. MARKER Marks any point during playback. RETURN Removes the setup menu. SEARCH Displays MARKER SEARCH menu.

ZOOM Enlarges DVD video image. REPEAT Repeat chapter, track, title, all. RANDOM, CM SKIP - Plays tracks in random order. - Fast forwards picture search through 30 seconds of recording. A-B, SP/EP - Repeats sequence. - Selects recording speed Note This remote control use the same buttons for VCR and DVD functions (ex. PLAY). When using a VCR, first press the VHS button. When using a DVD, first press the DVD button. 10 Rear Panel DVD/VHS OUT (VIDEO/AUDIO (Left/Right)) Connect to a TV with video and audio inputs. ANTENNA INPUT Connect the VHF/UHF/CATV antenna to this terminal. DIGITAL AUDIO OUT (DVD OUT) Connect to digital (coaxial) audio equipment. AUDIO OUT (Left/Right) (DVD OUT) Connect to a TV, amplifier, receiver, or stereo system. VHS IN LINE 1 (VIDEO IN/AUDIO IN (Left/Right)) Connect the audio/video output of an external source (Audio system, TV/Monitor, Another VCR). AC Power Cord Plug into the power source.

RF OUT (DVD/VHS OUT) Connect to a TV with RF coaxial inputs. S-VIDEO OUT (DVD OUT) Connect to a S-Video Input on TV. COMPONENT VIDEO OUT (Y Pb Pr) (DVD OUT) Connect to a TV with Y Pb Pr inputs. VIDEO OUT (DVD OUT) Connect to a TV with video inputs. Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit. 11 INTRODUCTION Connections Without Cable Box Tips Depending on your TV and other equipment you wish to connect, there are various ways you could connect the DVD+VCR. Use connections described on pages 12-14. Please refer to the manuals of your TV, VCR, Stereo System or other devices as necessary to make the best connections. For better sound reproduction, connect the DVD+VCR's DVD/VHS AUDIO OUT jack to the audio in jacks of your amplifier, receiver, stereo or audio/video equipment. See Connecting to optional equipment on page 14. If your cable wire is connected to your TV without a converter or descrambler box, unscrew the wire from your TV and attach it to the ANT.IN jack on the DVD+VCR. Use the supplied round coaxial cable to connect between the DVD+VCR's RF.OUT jack and the 75 ohm antenna input jack on the TV.

With this connection, you can receive all midband, super band, and hyperband channels. With Cable Box If a converter is required in your cable system, follow the instruction below: The cable hookup permits both TV and DVD+VCR operation. To view or record CATV channel 1 Tune the TV to the DVD+VCR output channel (CH 3 or 4). 2 Set the DVD+VCR channel selector to the output channel of the Cable Converter box by pressing the CH/TRK (v/V) or number (0-9) of your DVD+VCR. (Example: CH3) 3 Select the channel to view at the Cable Converter Box. Caution Make sure the DVD+VCR is connected directly to the TV. Tune the TV to the correct video input channel. Do not connect the DVD+VCR's DVD/VHS AUDIO OUT jack to the phono in jack (record deck) of your audio system.



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*Do not connect your DVD+VCR via your VCR. The DVD image could be distorted by the copy protection system. Notes With this connection, you CANNOT record one program while viewing another. If you are using a cable box to tune channels, it is not necessary to do Auto Channel Programming, (Auto Channel Search) as indicated on page 16. Connecting Antenna/Cable TV to DVD+VCR 1 Disconnect the antenna leads from the rear of the TV. of your antenna. If it 2 Identify the typeThis cable from is a 75 ohm coaxialis a round cable as illustrated, it antenna cable.*

*cable will connect directly to the jack marked ANT.IN on your DVD+VCR. Tip If your antenna lead wire is a flat type antenna cable, connect it to an Antenna Adaptor (300-ohm to 75-ohm) (not supplied) and slip the Adaptor onto the ANT.IN jack. The Adaptor does not screw on to the DVD+VCR, it just slips over the jack. Antenna Antenna Cable TV Wall Jack Flat Wire (300 ohm) 300/75 ohm Adaptor (Not supplied) Cable TV Wall Jack Back Panel of Typical Cable Box Rear of DVD+VCR OR OR Rear of DVD+VCR 12 Connections (Continued) Basic TV Connections Make one of the following connections, depending on the capabilities of your existing equipment. Optional, Preferred TV Connections PREPARATION Notes DVD playback can ONLY be done using the AUDIO/VIDEO connection options below. The tuner and VCR will still output through the RF.OUT (R) or DVD/VHS OUT (A1, V) jack. (See left) For using S-VIDEO OUT or COMPONENT VIDEO OUT jack, set the "TV Output Select" mode on the SETUP menu to corresponding mode.*

*See page 19. RF coaxial connection Connect the RF.OUT jack on the DVD+VCR to the antenna in jack on the TV using the 75-ohm Coaxial Cable supplied (R). Note If you use this connection, tune the TV to the DVD+VCR's RF output channel (CH 3 or 4). How to set the DVD+VCR's RF output channel When the DVD+VCR is turned off, press and hold CHANNEL (v/v) on the front panel for about five seconds to change the RF output channel (CH 03 or CH 04). "RF 03" or "RF 04" appears in the display window. Audio/Video connection 1 Connect the VIDEO OUT jack on the DVD+VCR to the video in jack on the TV using the video cable supplied (V). Right AUDIO 2 Connect the Left and audiosupplied OUT jacksonofthe the DVD+VCR to the left/right in jacks TV using the audio cables (A2). S-Video connection Audio/Video connection 1 1 Connect the DVD/VHS VIDEO OUT jack on the DVD+VCR to the video in jack on the TV using the video cable supplied (V). Connect the S-VIDEO OUT jack on the DVD+VCR to the S-Video in jack on the TV using the supplied S-Video cable (S).*

*the Left and Right DVD/VHS AUDIO OUT 2 Connect the TV (A1) usingthe audio left/right in jacks on DVD+VCR to jacks on the the supplied audio cables. Note If you use this connection, set the TV's source selector to VIDEO. Rear of TV AUDIO INPUT VIDEO INPUT ANTENNA INPUT OUT the 2 Connect thetoLeft and Right AUDIO jacks jacks ofTV DVD+VCR the audio left/right in on the using the supplied audio cables (A2). See page 19. Component Video (Color Stream®) connection 1 Connect the COMPONENT VIDEO OUT jacks on the DVD+VCR to the corresponding in jacks on the TV using user-supplied Y Pb Pr cables (C). Left OUT the 2 Connect thetheand Right AUDIO jacks jacks ofTV DVD+VCR to audio left/right in on the (A2) using supplied audio cables. See page 19. Rear of TV S-VIDEO INPUT COMPONENT VIDEO INPUT AUDIO INPUT VIDEO INPUT L R Pr Pb Y L R L A1 V R S C A2 V Rear of DVD+VCR Rear of DVD+VCR 13 Connections (Continued) Optional, Preferred TV Connections Note You can ONLY listen to DVD playback using COAXIAL (C) and AUDIO OUT (A2) connections. The tuner and VCR will still be heard through the RF.OUT (R) or DVD/VHS AUDIO OUT (A1) jack.*

*(See previous page.) Rear of DVD+VCR Connecting to an amplifier equipped with two channel analog stereo or Dolby Surround Connect the Left and Right AUDIO OUT (or DVD/VHS AUDIO OUT) jacks on the DVD+VCR to the audio left and right in jacks on your amplifier, receiver, or stereo system using the audio cables (A1, A2) supplied. A1 A2 X Connecting to an amplifier equipped with two channel digital stereo (PCM) or to an Audio/Video receiver equipped with a multi-channel decoder (Dolby Digital™, MPEG 2, or DTS) L R COAXIAL DIGITAL INPUT 1 Connect one of the DVD+VCR's DIGITAL AUDIO OUT jacks (COAXIAL X) to the corresponding in jack on your amplifier. Use an optional digital (coaxial X) audio cable. AUDIO INPUT Amplifier (Receiver) need to activate 2 You will(See Digital Audiothe DVD+VCR's digital output. Output on page 20). Accessory Audio/Video (A/V) Connections to DVD+VCR Connect the VHS IN LINE1 or LINE2 jacks on the DVD+VCR to the audio/video out jacks on your accessory component, using optional audio/video cables.*

*Accessory Component: VCR, Camcorder, Video Camera, Satellite Receiver, Laser Disc Player Digital Multi-channel sound A digital multi-channel connection provides the best sound quality. For this you need a multi-channel Audio/Video receiver that supports one or more of the audio formats supported by your DVD+VCR (MPEG 2, Dolby Digital and DTS). Check the receiver manual and the logos on the front of the receiver.*

*Caution: Due to the DTS Licensing agreement, the digital output will be in DTS digital out when DTS audio stream is selected. Notes If the audio format of the digital output does not match the capabilities of your receiver, the receiver will produce a strong, distorted sound or no sound at all. Six Channel Digital Surround Sound via digital connection can only be obtained if your receiver is equipped with a Digital Multi-channel decoder. To see the audio format of the current DVD in the onscreen display, press AUDIO. Jack panel of Accessory AUDIO OUTPUT R L VIDEO OUTPUT OR Rear of DVD+VCR Front of DVD+VCR 14 Before Operation - VCR Part On-Screen Display (OSD) Some of these functions will be displayed every time the VCR is operated.*

*CH 4 STEREO Setting the On-Screen Display PREPARATION The SETUP, clock setting, and timer recordings are accessed conveniently with On-Screen Menu Displays that lead you through each step. The following pages describe the On-screen selections to be set. PLAY HI-FI SP Menu Selection Your VCR allows remote control adjustment of several features. Press MENU and the MAIN menu will appear. JUL 5 , FRI 2:15 PM TAPE SPEED DISPLAY Shows the current tape speed.*

*1 Select the 2 then pressesdesired menu with v/v button and SELECT/ENTER. Note FUNCTION DISPLAY Indicates the function in progress. HI-FI DISPLAY Indicates when this unit is playing back tape recorded with Hi-Fi. Menus remain on-screen for 3 minutes. CHANNEL DISPLAY Indicates the selected channel (or LINE1, LINE2). STEREO/SAP DISPLAY (MONO is not displayed) Shows the type of audio signal received by the VCR tuner.*



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MONTH : JANUARY DAY : 1 TUE YEAR : 2002 TIME : 12 : 00 AM AUTO CLOCK SET: ON PBS CH. : 2 TV DATE DISPLAY Shows the current date. (Month/Date/Day of the week format) SELECT ADJUST TO EXIT PRESS SET CLOCK (page 17) PROGRAM 1 MONTH : DAY : START : STOP : CHANNEL : SPEED : REPEAT : CLOCK/COUNT/REMAIN DISPLAY Shows the current time, the tape counter and remaining time on the tape. Each press of the SELECT/ENTER changes the TV screen in the following sequence.

One press STOP SP CH 4 SELECT ADJUST TO EXIT PRESS Two presses STOP SP CH 4 Three presses STOP SP CH 4 MAIN MENU SET CLOCK TIMER RECORD CHANNEL SETUP TIMER RECORD (page 23) AUTO CHANNEL SEARCH CHANNEL SOURCE: ADD/DEL CH: INPUT SLECT: JUL 05 , FRI 2:15 PM M 0:35:40 REM 1:56 After 3 seconds VCR SETUP SELECT ENTER TO EXIT PRESS After 3 seconds After 3 seconds CHANNEL SETUP (page 16) 2:15 PM M 0:35:40 REM 1:56 Press SELECT/ENTER Press SELECT/ENTER Press SELECT/ENTER SCREEN DISPLAY: LANGUAGE: AUDIO MODE: BROADCAST TYPE: AUDIO OUTPUT: ON All indicators are turned off. SELECT ADJUST TO EXIT PRESS VCR SETUP (page 16) Notes The function displays can be seen displayed on the TV screen for 3 seconds. The clock (or tape counter, tape remaining) mode will continue until you press SELECT/ENTER. The tape counter and the remaining tape length indicator appear only when a cassette is inserted. Also, the remaining tape length indicator appears after any tape operation. 15 Before Operation - VCR Part (Continued) Setting the VCR Setup Menu Channel Selection This DVD+VCR is equipped with a frequency synthesized tuner capable of receiving up to 181 channels. These include VHF channels 2-13, UHF channels 14-69 and CATV channels 1-125. Preparation: Connect the DVD+VCR to the desired type of antenna or cable TV system, as shown in Connecting Antenna/Cable TV to DVD+VCR on page 12. 1 Press MENU and the MAIN menu will appear. v/V to select the VCR SETUP V 2 Press SELECT/ENTER. will appear. menu, then press The VCR SETUP menu SET CLOCK TIMER RECORD CHANNEL SETUP VCR SETUP SELECT ENTER TO EXIT PRESS SCREEN DISPLAY: LANGUAGE: AUDIO MODE: BROADCAST TYPE: AUDIO OUTPUT: ON AUTO CHANNEL PROGRAMMING SELECT ADJUST TO EXIT PRESS v/V to choose a desired V 3 PressSETUP menu. Then press option on the a b/B to choose B VCR desired setting. SCREEN DISPLAY The on-screen display of this DVD+VCR can be turned on or off. SCREEN DISPLAY can be switched between ON and OFF by pressing b/B. 1 Press MENU and the MAIN menu will appear. v/V V CHANNEL SETUP 2 Presspressto select themenu will appear. menu, then SELECT/ENTER. The CHANNEL SETUP SET CLOCK TIMER RECORD CHANNEL SETUP VCR SETUP SELECT ENTER TO EXIT PRESS AUTO CHANNEL SEARCH CHANNEL SOURCE: ADD/DEL CH: INPUT SLECT: LANGUAGE The on-screen programming of this DVD+VCR can be displayed in English, Spanish, or French. LANGUAGE can be switched among ENGLISH, SPANISH and FRENCH by pressing b/B. V to the INPUT SELECT 3 Presspress chooseselect TUNER. option, b/B to B then Press b/B repeatedly to switch among TUNER, LINE1 and LINE2. AUDIO MODE The DVD+VCR has two separate audio playback systems, the high quality VHS Hi-Fi system and standard NORMAL mono system. The same audio is generally recorded on both systems. The VHS Hi-Fi system plays on separate (left and right) channels, and the NORMAL system plays monaural sound. The normal track is always played so the cassette can be played on a DVD+VCR that does not have VHS Hi-Fi. AUDIO MODE can be switched between HI-FI and NORMAL by pressing b/B. V /V to choose the CHANNEL 4 Press vthen press b/B toAUTOchannels. SEARCH B find option. The tuner will automatically cycle through all available channels in the area and place them in the tuner's memory. CHANNEL SEARCH PROCEED5 Afteristhe AUTO appropriatelythe CHANNEL by ING complete, make sure SOURCE is set (TV or CATV) V pressing v/V and choosing the correct CHANB NEL SOURCE (TV or CATV) by pressing b/B using the CHANNEL SETUP menu.

Remember, TV is for the air antenna reception, CATV is for cable or wireless cable connection. BROADCAST TYPE (STEREO/SAP/MONO) Multichannel Television Sound (MTS) carries stereo and/or Second Audio Program (SAP) bilingual signals. Set this display to the desired position when both MTS stereo and SAP signals are received. When only one of the MTS signal is received, the DVD+VCR automatically selects the corresponding receiving mode (Stereo or SAP) regardless of the selected position. For normal operation, the display should be in the STEREO position. The DVD+VCR will then record a STEREO program when available, and record a mono program IF the program is NOT IN STEREO. For weak STEREO and/or SAP broadcasts, changing the display to mono may give clearer sound. BROADCAST TYPE can be switched among STEREO, SAP, and MONO by pressing b/B. 6 Press MENU to return to the TV screen. v/V V CHANNEL (v/V) on 7 Use CH/TRKto(v/V) orthe DVD+VCRvthroughthe front panel cycle the channels in memory.

TO ADD OR ERASE CHANNELS FROM MEMORY This feature allows you to add or erase channels from memory manually. 1 Press V to choose the ADD/DEL CH option on the CHANNEL SETUP menu. Press b/B to select a channel to add or erase. Press SELECT/ENTER to add or erase the channel. Repeat steps 1 and 2 to add or erase channels.

Press MENU to return to the TV screen. AUDIO OUTPUT (STEREO/LEFT/RIGHT) Used during playback [when AUDIO MODE (HI-FI/NORMAL) is in HI-FI position] for selecting the audio output signals from the AUDIO OUT terminals (L ch and R ch), and RF.OUT. This display setting should normally be left in the stereo position, so that when a stereo tape is played, the stereo sound will be heard through the left and right channels. If a mono tape is played and the audio output is set to stereo, the same mono sound will be heard from both left and right channels.

AUDIO OUTPUT can be switched among STEREO, LEFT, and RIGHT by pressing b/B. 2 3 16 Before Operation - VCR Part (Continued) Setting the Clock The DVD+VCR gives you two ways to set the time and date: the Auto Clock Feature or manually. The Auto Clock Feature enables the DVD+VCR to set up the clock when the DVD+VCR is turned off. Manual Clock Set Example: July 5, 2002 ; 2:15 AM Things to know before starting The clock uses the 12-hour system. (Be sure to set AM and PM correctly.) The initial Clock Setting is JANUARY 1, 2002, 12:00 AM. 1 Press MENU and the MAIN menu will appear. v/V to choose V 2 Press will appear. the SET CLOCK menu. Press SELECT/ENTER and the SET CLOCK menu SET CLOCK TIMER RECORD CHANNEL SETUP MONTH : JANUARY DAY : 1 TUE YEAR : 2002 TIME : 12 : 00 AM AUTO CLOCK SET: ON PBS CH.

: 2 TV Auto Clock Set The Auto Clock Set feature is set to ON at the factory. In the ON setting, the DVD+VCR looks for a channel carrying XDS (Extended Data Services) information. XDS updates the clock using the Coordinated Universal Time. VCR SETUP SELECT ENTER TO EXIT PRESS SELECT ADJUST TO EXIT PRESS The Auto Clock Feature enables the DVD+VCR to set up the clock when the DVD+VCR is turned off.



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B 3 Press b/B to choose the month. V 4 Press /B to choose the DAY option. Use b B to choose the day. The day of the week will display automatically. 1 v/V to choose V 2 Press will appear. the SET CLOCK menu.

Press SELECT/ENTER and the SET CLOCK menu SET CLOCK TIMER RECORD CHANNEL SETUP VCR SETUP SELECT ENTER TO EXIT PRESS MONTH : JANUARY DAY : 1 TUE YEAR : 2002 TIME : 12 : 00 AM AUTO CLOCK SET: ON PBS CH. : 2 TV Press MENU and the MAIN menu will appear.

V 5 Press /B to choose the YEAR option. Use b B to choose the year. V 6 Press /B to choose the TIME option.

Use b B to choose the time. 7 Press MENU when finished. SELECT ADJUST TO EXIT PRESS 3 Press V to choose the AUTO CLOCK SET option. B Press b/B to choose ON. The Auto Clock Set feature is set to ON at the factory.

In the ON setting, the DVD+VCR looks for a channel carrying XDS (Extended Data Services) information. XDS updates the clock using the Coordinated Universal Time. Note If setting the clock manually, "AUTO CLOCK SET" must set to "OFF". If set to "ON", an incorrect date and/or time will be entered again when the DVD+VCR is turned off. to choose the PBS CH. 4 Press V/B to choose channel of option. Press b B PBS broadcast. 5 Press MENU when finished. Note There are cases where the TV station does not send, or sends wrong date and/or time information and the DVD+VCR sets the incorrect time. If this happens, we recommend that you set the clock manually.

17 PREPARATION Before Operation - DVD Part General Explanation This manual gives the basic instructions for operating the DVD+VCR. Some DVDs require specific operation or allow only limited operation during playback. When this occurs, the symbol appears on the TV screen, indicating that the operation is not permitted by the DVD+VCR or is not available on the disc. Temporary Feedback Field Icons TITLE Repeat Title (DVD) Repeat Chapter (DVD) Repeat Track (CD) Repeat All Tracks (CD) Repeat A-B Repeat Off Resume play from this point Action prohibited or not available CHAPT TRACK ALL A B On-Screen Display The general playback status can be displayed on the TV screen. @@The option will be highlighted. b/B to B the setting option. 3 Use number changenumber). @@@@Shows the current subtitles language, and changes the setting. Shows the current angle number and, changes the angle number. @@@@for the The setting selected option, as well alternate setting(s).

@@@Press SELECT/ENTER to confirm your selection. 4 Some options require additional steps. H SETUP, 5 Press menu. @@@@4:3 Panscan: Select when a standard 4:3 TV is connected. Displays pictures cropped to fill your TV screen.

Both sides of the picture are cut off. @@@@PCM: Select when connected to a 2 channel digital stereo amplifier. @@Use v/V to select the desired option and press SELECT/ENTER. The setting of the selected option is changed between On and Off. Disc Audio Disc Subtitle Disc Menu Rating Password TV Aspect Menu Language TV Output Select Digital Audio Output 5.

1 Speaker Setup Others DRC Off Vocal On Dynamic Range Control (DRC) With the DVD format, you can hear a program's soundtrack in the most accurate and realistic presentation possible, thanks to digital audio technology. However, you may wish to compress the dynamic range of the audio output (the difference between the loudest sounds and the quietest ones). Then, you may listen to a movie at a lower volume without losing clarity of sound. Set DRC to On for this effect. /PCM Stream/PCM PCM Vocal Set Vocal to On only when a multi-channel karaoke DVD is playing. The karaoke channels on the disc will mix into normal stereo sound. 20 Before Operation - DVD Part (Continued) Parental Control Rating DVD Password DVD Movies on DVDs may contain scenes not suitable for children. Therefore, discs may contain Parental Control information that applies to the complete disc or to certain scenes on the disc. These scenes are rated from 1 to 8, and alternatively, more suitable scenes are available for selection on some discs. Ratings are country-dependent.

The Parental Control feature allows you to prevent discs from being played by your children or to have certain discs played with alternative scenes. Disc Audio Disc Subtitle Disc Menu Rating Password TV Aspect Menu Language TV Output Select Digital Audio Output 5.1 Speaker Setup Others 8 7 6 5 4 3 2 1 Unlock Disc Audio Disc Subtitle Disc Menu Rating Password TV Aspect Menu Language TV Output Select Digital Audio Output 5.1 Speaker Setup Others New ----- V Password 1 Select menu. using v/V buttons on the setup 2 While Password is selected, press B. 3 Enter a 4-digit password using the numeric buttons to create a personal 4-digit security password, then press SELECT/ENTER. Do not forget your password. 1 2 While Rating is selected, press B. you have 3 When step 4. not entered a password yet.

Go to When you have already entered a password; Enter a 4-digit password using the numbered buttons to confirm the personal 4-digit security password, then press SELECT/ENTER. If you make a mistake before pressing SELECT/ENTER, press CLEAR and enter the 4-digit security password again. V Select Rating on the Setup menu using v/V buttons. 4-digit password 4 Enter the complete. verify.

again and press SELECT/ENTER to Setting is Note Confirmation of the 4-digit password is necessary when the password is changed (see Changing the 4-digit password below ). Changing the 4-digit password Press SETUP to display the setup menu. Press V to select Password. While Password is selected, press B. Enter the old password, then press SELECT/ENTER.

V Select Change using v/V buttons then press SELECT/ENTER. 6 Enter the new 4-digit password, then press SELECT/ENTER. 7 Enter exactly the same password a second time and verify by pressing SELECT/ENTER. 8 Press SETUP to exit the menu. 1 2 3 4 5 V a rating to 8 using v/V buttons. 4 Select(8)has thefrom 1 playback restrictions. One (1) least Eight has the most playback restrictions. Unlock: If you select Unlock, Parental Control is not active. The disc will play in full. Ratings 1 to 8: Some discs contain scenes not suitable for children.

If you set a rating for the DVD+VCR, all disc scenes with the same rating or lower will be played. Higher rated scenes will not be played unless an alternative scene is available on the disc. The alternative must have the same rating or a lower one. If no suitable alternative is found, playback will stop. You must enter the 4-digit password or change the rating level in order to play the disc. to confirm your 5 Press SELECT/ENTERSETUP to exit the rating selection, then press menu. If you forget your 4-digit password If you forget your password, to clear the current password, follow the procedure below. 1 Press SETUP to display the setup menu. 2 Press V to highlight "Password". 3 Enter the 6-digit number 210499 and then press SELECT/ENTER.

The 4-digit password is cleared.



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4 Enter a new password as shown above. 21 PREPARATION If you change the rating level to 7 or lower, you must enter a 4-digit password to prevent playback of discs with higher ratings. Operation with tape Normal Playback Preparation: Turn on the TV. Tune the TV to the DVD+VCR output channel (CH 3 or 4) or set the TV's source selector to VIDEO.

If a direct VIDEO/AUDIO connection is made between the DVD+VCR and the TV, set the TV's source selector to VIDEO. Set the Output Source to VCR as shown in Setting the Output Source on page 7. Search This function lets you quickly and visually search for a desired tape section in either direction: forward and reverse. 1 Press BACKWARD (.) or FORWARD (>) during playback.

The DVD+VCR will be activated in the SEARCH mode. If the DVD+VCR is left in the SEARCH mode for more than 3 minutes, the DVD+VCR will automatically enter the PLAY mode, to protect the tape and video heads. 1 Insert a prerecorded video cassette. The indicator will light and the DVD+VCR will power-up automatically. Make sure that the TIMER indicator in the display window is not lighted. If it is, press POWER once. If a tape without a safety tab is inserted, the unit will start playback automatically. 2 To return to playback, press PLAY (H). Still Picture and Frame-by-Frame Playback 1 Press PAUSE/STEP (X) during playback. Still picture will appear on the TV screen.

If a still picture vibrates vertically, stabilize it by pressing CH/TRK (v/V) on the remote control. If the DVD+VCR is left in the STILL mode for more than 5 minutes, the DVD+VCR will automatically enter the STOP mode to protect the tape and video heads. 2 Press PAUSE/STEP (X) repeatedly to advance the 2 3 H Press PLAY (H) once. PLAY appears on the TV screen. It is not necessary to select the tape speed for playback. It will be automatically selected by the DVD+VCR. In playback, the TV/VCR selector switches to VCR mode automatically. x Press STOP (x) to stop playback. STOP appears on the TV screen. If the tape reaches the end before STOP (x) is pressed, the DVD+VCR will automatically stop, rewind, eject, and it will turn itself off. video picture one frame at a time while viewing a still picture. 3 To return to playback, press PLAY (H). Slow Motion 1 While in still mode, press FORWARD (>). The tape will be played back at a speed 1/19 times slower than the normal speed. During slow playback, use CH/TRK (v/V) on the Remote Control to minimize noise bands.

If slow motion mode continues for more than 30 seconds, the DVD+VCR will automatically change to playback mode. Tracking Control Auto Tracking The automatic tracking function adjusts the picture to remove snow or streaks. The AUTO TRACKING function works in the following cases: A tape is played back for the first time. Tape speed (SP, LP, EP) changes. Streaks or snow appear because of scratches on the tape. 2 To return to playback, press PLAY (H). CM SKIP (Commercial Skip) This is useful for skipping commercials or short program segments. 1 Press CM SKIP during the playback mode. The tape will fast forward picture search through 30 seconds of recording. The skipping time can be extended by pressing CM SKIP. Subsequent presses result in advancing the fast forward picture search time by 30-second increments (maximum 2 minutes). Manual Tracking If noise appears on the screen during playback, press v/V either CH/TRK (v/V) on the remote control or v/V CHANNEL (v/V) on the front panel until the noise on the screen is reduced. In case of vertical jitter, adjust these controls very carefully. Tracking is automatically reset to normal when the tape is ejected or the power cord is unplugged for more than 3 seconds. Special Effect Playbacks Special effects playback notes Horizontal lines (noise bars) will appear on the TV screen.

This is normal. The audio is automatically muted during special effect modes, so there is no sound during search. During the high-speed picture search modes, a short period is needed to stabilize tape speed when re-entering the PLAY mode. Slight interference may be observed during this period. 2 When the search is completed, the DVD+VCR will go into playback mode automatically. 22 Operation with tape (Continued) Normal Recording Preparation: Turn on the power of both the DVD+VCR and TV. Tune the TV to the DVD+VCR output channel (CH 3 or 4) or set the TV's source selector to VIDEO. If a direct VIDEO/AUDIO connection is made between the DVD+VCR and the TV, set the TV's source selector to VIDEO. Timer Recording This DVD+VCR can be programmed to record up to 8 programs within a period of 1 year. For unattended recording, the timer needs to know the channels to be recorded and the starting and ending times.

Things to know before starting If you try to set the program timer before setting the clock, PLEASE SET THE CLOCK appears for a moment and then SET CLOCK menu appears on the TV screen. Set the time and date before proceeding. Make sure a tape is in the DVD+VCR and the safety tab is in place or the tape will be automatically ejected. 1 Insert a video cassette that the safety tab intact. 2 Select the desired channel by using CH/TRK v/V (v/V).

If you are recording from another source via audio/video input jacks (at the Rear or Front panel), select the LINE1 or LINE2 by pressing INPUT. Preparation: Turn on the power of both the DVD+VCR and the TV. Be sure the TV is set to the DVD+VCR output channel (3 or 4). Make sure the CHANNEL SOURCE in the CHANNEL SETUP menu is set appropriately (TV or CATV). 3 Set the desired recording speed (SP or EP) by pressing SP/EP. This DVD+VCR is not designed to record in LP mode. 4 Set the MTS mode as desired (See page 16, 26). 1 Press MENU and the MAIN menu will appear. z Press REC/ITR (z once. V 5 Recording will start.) (The REC indicator will light in 2 Use v/V to choose the TIMER RECORD menu. the display window.) the TIMER 3 Press SELECT/ENTER to go to appear. RECORD menu. x The TIMER RECORD menu will 6 Press STOP (x) to stop recording.

If a cassette with no safety tab is loaded, the cassette will be ejected automatically. If the tape reaches the end before STOP (x) is pressed, the DVD+VCR will automatically stop, rewind, eject, and turn itself off. If all programs have already been entered, MAX NUMBER OF EVENTS SCHEDULED message will appear for a moment and then PROGRAM 1 will appear on the TV screen. SET CLOCK TIMER RECORD CHANNEL SETUP VCR SETUP SELECT ENTER TO EXIT PRESS PROGRAM 1 MONTH : DAY : START : STOP : CHANNEL : SPEED : REPEAT : To pause the recording 1 Press PAUSE/STEP (X) to pause the tape during recording. The REC indicator will flash in the display window. 2 When you want to continue recording, press z PAUSE/STEP (X) or press REC/ITR (z). After 5 minutes in pause mode, the tape will be stopped automatically to protect the tape and the video heads. SELECT ADJUST TO EXIT PRESS To record one TV program while watching another 1 Press TV/VCR to select the TV mode during recording.



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The VCR indicator disappears. 2 Using the TV, select the channel to be viewed.

Tips Always use PAUSE/STEP (X) for best results when making changes during recording. For example: To change channels during recording, first press PAUSE/STEP (X) to put the unit in pause mode. Then select the desired channel on the DVD+VCR, and press PAUSE/STEP (X) again to resume recording. B

4 Use b/B to choose the PROGRAM No. (1-8).

to choose the MONTH option. 5 Use V/B to choose the desired month. Use b B to choose the DAY option. 6 Use V/B to choose the desired day. Use b B to choose the START option.

7 Use V/B to choose the desired start time. Use b B to choose the STOP option. 8 Use V/B to choose the desired stop time. Use b B to choose the CHANNEL option. 9 Use V/B to choose the desired channel Use b B (Channel, LINE1 or LINE2). Cable Users: If you have CABLE TV and used Cable Box in Connecting Antenna/Cable TV to DVD+VCR (page 12), using a cable box converter, you must set the channel in this step to match the cable box output channel (usually CH 3 or 4). Change channels on the cable box instead of with the DVD+VCR. 23 OPERATION Operation with tape (Continued) 10 Use V to choose the SPEED option. B Use b/B to choose the desired recording speed (AUTO, SP or EP). AUTO mode determines how much tape is left and switches speed from SP to EP, if necessary, to complete recording of the program.

There will be some picture and sound distortion at the point of the speed change. Checking (Erasing) the Timer Program Programming can be checked whenever the DVD+VCR is turned on. 1 Press MENU and the MAIN menu will appear. 2 Use v/V to choose the TIMER RECORD menu. Press SELECT/ENTER and the PROGRAM menu will appear. SET CLOCK TIMER RECORD CHANNEL SETUP VCR SETUP SELECT ENTER TO EXIT PRESS PROGRAM 1 MONTH : DAY : START : STOP : CHANNEL : SPEED : REPEAT : 11 Use V to choose the REPEAT option. B Use b/B to choose the desired repeat (ONCE, WEEKLY, or DAILY). ONCE event...

.for recording up to 8 programs on a single day or over the days within a period of 1 year. WEEKLY event...

.for recording up to 8 programs on a certain day of every week. DAILY event...

.for recording up to 8 programs at the same time(s) Monday through Friday. PROGRAM 1 MONTH : DAY : START : STOP : CHANNEL : SPEED : REPEAT : JULY 6 SAT 6 : 00 PM 7 : 30 PM 4 TV SP ONCE JULY 6 SAT 6 : 00 PM 7 : 30 PM 4 TV SP ONCE TO ERASE PRESS TO EXIT PRESS 3 Use b/B to select a program you want to check or erase. If you want to erase the program, press CLEAR. 4 Press MENU to return to the TV screen. SELECT ADJUST TO EXIT

PRESS Program Priority If the recording start and end times of preset programs overlap on the same day (see the example and diagram left), program number 2 will not be recorded until program number 1 is finished. The first part of program number 2 will not be recorded. The same thing will happen to program number 3. Tip If the input data is wrong, use v to select the data B and correct it using b/B. 12 Press MENU, the program will be memorized at the DVD+VCR.

If the program preset time is past, the EVENT SCHEDULED IN THE PAST message will appear on the TV screen. Return to the incorrect program and program it with the correct time. If you enter a past date, the timer recording will be performed on that date of the next year. Additional programs may be entered by repeating steps 1-12. Cable Users: If your cable hookup is via a TV converter box, you can program multiple recordings only on the converter box output channel. This is because the converter determines what channel you view through your DVD+VCR. 13 Turn the DVD+VCR off for timer recording to take place. Tip If you are finished programming and you want to set the DVD+VCR to record the programs you have entered. A) MAKE SURE YOU HAVE INSERTED A TAPE INTO THE DVD+VCR. B) YOU MUST TURN OFF THE DVD+VCR BEFORE IT WILL RECORD ANY TIMER PROGRAMS.

(TIMER indicator lights). The DVD+VCR is now set to record the preset programs. Note If the power fails or the DVD+VCR is unplugged from the AC outlet, the correct clock time and timer settings are kept in memory for approximately 3 seconds. After 3 seconds, the clock and program timer must be reset when power is restored. Reset the clock according to instructions.

24 Operation with tape (Continued) Instant Timer Recording (One-Touch Record) Instant Timer Recording allows you to make a recording easily of a preset length without using the program timer. Preparation: Turn on the power of both the DVD+VCR and the TV. Be sure the TV is tuned to the DVD+VCR output channel (3 or 4). If a direct VIDEO/AUDIO connection is made between the DVD+VCR and the TV, set the TV's source selector to VIDEO. Dubbing and Editing If you wish to edit or dub your camcorder (or another VCR) recordings to this DVD+VCR, the rear (or Front) panel mounted Audio and Video (A/V) input jacks make the connections quick and easy.

These direct A/V jacks will also provide better picture results than using the RF jack on the rear panel. the camcorder's A/V 1 Connect to your DVD+VCR (or another VCR's) page 14. outputs as illustrated on 2 Set the input channel "LINE2". (press INPUT twice to select LINE2.) If you have connected your DVD+VCR to the A/V input jacks on the rear of DVD+VCR, you should select the input channel LINE1 by pressing INPUT. 1 Insert a video cassette with the safety tab intact. the desired channel 2 Selector number (0-9). by using CH/TRK v/V) The channel number appears on the TV screen. If you are recording from another source via audio/video input jacks (at the Rear or Front panel), select the LINE1 or LINE2. tape in the camcorder another 3 Play the youyou can TV attached (or playing).

VCR). If have a to your DVD+VCR, see the video 3 Set the desired recording speed (SP or EP) by pressing SP/EP. The tape speed will appear on the TV screen. z Press REC/ITR (z) twice. The menu as illustrated, will appear on the TV screen. Recording will start. (The TIMER indicator will light) 4 When you desire recording to begin, press z DVD+VCR's REC/ITR (z) once to start. Note Before recording, please confirm the recording start position. 4 z Press REC/ITR (z) repeatedly to select 5 recording time length. the DVD+VCR the stop At the end of the recording, will recording and shut off.

During Instant Timer Recording, changing the channel on the DVD+VCR will not be possible. You can stop the recording by pressing STOP (x). INSTANT TIMER RECORD (ONE-TOUCH RECORD) MENU ONE-TOUCH RECORD CHANNEL SPEED START LENGTH 2 SP NOW 0H30M Copying from DVD to VCR This unit allows you to copy the contents of a DVD to a VHS tape with a press of the COPY button. Notes If the DVD you are attempting to copy is copy protected, you will not be able to copy the disc. It is not permitted to copy Macrovision encoded DVDs.

"LOCK" is displayed in the display window. 0H30M ....

. 9H00M 0H00M Length Display (each additional press of z REC/ITR (z) increases recording time 30 minutes) 1 Insert Disc Insert the disc you wish to copy in the DVD deck and close the disc tray.



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