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You can read the recommendations in the user guide, the technical guide or the installation guide for ZENITH XBV323. You'll find the answers to all your questions on the ZENITH XBV323 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ZENITH XBV323
User guide ZENITH XBV323
Operating instructions ZENITH XBV323
Instructions for use ZENITH XBV323
Instruction manual ZENITH XBV323

Installation and Operating Guide | Warranty

Model Number | XBV323 | 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. **CAUTION: 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 book case 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.

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 uses copyright protection 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. _____ **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.**

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

The safeguards incorporated in this product will protect you if you observe the following procedures for installation, use, and servicing. This product 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 these safety and operating instructions should be read before the product is operated. 2. Keep these instructions. - The safety, operating and use instructions should be retained for future reference. 3. Heed all warnings. - All warnings on the product and in the operating instructions should be adhered to. 4. Follow all instructions.

- All operating and use instructions should be followed. 5. Do not use this product near water. For example: near a bath tub, wash bowl, kitchen sink, laundry tub, in a wet basement; or near a swimming pool; and other areas located near water. 6. Clean only with dry cloth. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners. 7. Do not block any ventilation openings.

Install in accordance with the manufacturer's instructions. Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from over- heating. 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.

Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A 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 third 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. 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the product. 11. Only use attachments/accessories specified by the manufacturer. 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with apparatus.



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When a cart is used, use caution when moving the cart/product combination to avoid injury from tip-over. 13.

Unplug this product during lightning storms or when unused for long periods of time. 14. Refer all servicing to qualified service personnel. Servicing is required when the product has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the product, the product has been exposed to rain or moisture, does not operate normally, or has been dropped. 3 Table of Contents Introduction Safety

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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 recorded. 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 Operating 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.

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DTS and DTS Digital Out are trademarks of Digital Theater Systems, Inc. 1 ote 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 Digital Surround™ decoder system must be connected to the digital output of the unit. 5 INTRODUCTION AAA 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 out.

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.



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(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 at that moment or with that specific DVD. 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. WMA WMA Discs.

JPEG JPEG Files. 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. **Selecting the Viewing Source** You must select one of your output sources (DVD or VCR) to view on the TV screen. · If you want to view DVD deck output source: Press DVD on the remote or DVD/VCR on the front panel until DVD indicator in the display window lights and output source of DVD deck is viewed on the TV screen. · If you want to view VCR deck output source: Press VCR on the remote or DVD/VCR on the front panel until VCR indicator in the display window lights and output source of VCR deck is viewed on the TV screen. **otes 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. · If you insert a disc while the DVD+VCR is in the VCR mode, the DVD+VCR will switch to DVD mode automatically.

· If you insert a cassette tape without an erasure prevention tab intact while the DVD+VCR is in the DVD mode, the DVD+VCR will switch to VCR mode automatically. **6 Front Panel Controls** **RT Forward SKIP/SCAN (R/T) 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. **N PLAY (N)** To play back a recorded tape or disc. **Disc Tray (DVD deck)** Insert a disc here. **SQ Reverse SKIP/SCAN (S/Q) 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. **Z OPEN/CLOSE (Z)** Opens or closes the disc tray. **Remote Sensor** Point the DVD+VCR remote control here. **Cassette Compartment (VCR deck)** Insert a video cassette here. **Display window** Shows the current status of the DVD+VCR. **COPY** Press to copy a DVD in the DVD deck to a VHS tape in the VCR deck. **Z EJECT(Z)** Ejects the tape in the VCR deck. **Enter** Acknowledges menu selection. **XC PAUSE/STEP(X/C)** Pause playback of a tape or a disc in the DVD or VCR deck temporarily/press repeatedly for frame-by-frame playback. **x STOP (x)** Stops playback of a disc or tape. **z REC/ITR (z)** To record normally or to activate Instant Timer Recording. **DVD/VCR (output select)** Select either the DVD or VCR source to view on your TV screen.

DVD/VCR indicator Indicates the active deck. **b/B/v/V (left/right/up/down)** - Selects an option in the menu. **vV - CH (v/V)** To scan up or down through memorized channels. **LINE 2 (VIDEO IN/AUDIO IN (Left/Right))** Connect the audio/video output of an external source (Audio system, TV/Monitor, another VCR). **POWER** Switches the DVD+VCR ON and OFF. **7 INTRODUCTION Display Window** DVD deck is selected. A disc is loaded in the DVD deck. (Lights when a disc is loaded in the DVD deck and flashes when no disc is loaded.) Indicates repeat mode. DVD to VCR copy is in progress.

DVD+VCR is in VCR timer recording mode or a VCR timer recording is programmed. A cassette is loaded in the VCR deck. VCR deck is selected. **DVD COPY VCR REC PM TV Lights** when TV mode is active (See page 22.) Indicates PM time. (AM is not displayed.) DVD+VCR is Recording a tape. Indicates total playing time, elapsed time, remaining time or current deck status (Playback, Pause, etc). **8 Remote Control DVD/VCR 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. - Acknowledges menu selection. - Displays functions on the TV screen. Switches DVD+VCR ON and OFF. **TV/VCR** To view channels selected by the VCR tuner or by the TV tuner.

INPUT To select the VCR deck's source (Tuner, LINE 1, or LINE 2). **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. **RETURN** Removes the Setup menu.

b/B/v/V (left/right/up/down) - Selects an option in the menu - **v/V:** Selects VCR channels. Manually adjusts the tape's picture onscreen. **> FORWARD (>)** DVD: Search forward*/go to next chapter or track. **VCR:** Advances the tape in STOP mode or for fast forward picture search. * Press and hold button for about two seconds. **SETUP, MENU** Accesses or removes DVD Setup menu and VCR menu. **TITLE** Displays the disc's Title menu, if available. **H PLAY (H)** Starts playback. **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 in STOP mode or for fast reverse picture search. * Press and hold button for about two seconds. **x STOP (x)** Stops playback. **z REC/ITR (z)** Records normally or activates Instant Timer Recording. **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. **ZOOM** Enlarges DVD video image. **SEARCH** Displays MARKER SEARCH menu.

REPEAT, EZ review Repeat chapter, track, title, all. Replays the specified segment twice. **RANDOM, CM Skip** - Plays tracks in random order. - Fast forwards picture search through 30 seconds of recording. **A-B, SP/SLP** - Repeats sequence.

- Selects recording speed **ote** This remote control use the same buttons for VCR and DVD functions (ex. PLAY). To use the VCR, first press the VCR button. To use the DVD, first press the DVD button. **9 INTRODUCTION POWER SELECT/ENTER** Connections Panel **DVD/VCR OUT (VIDEO/AUDIO (Left/Right))** Connect to a TV with video and audio inputs. **COMPONENT VIDEO OUT (Y Pb Pr) (DVD OUT)** Connect to a TV with Y Pb Pr inputs. **VCR IN LINE 1 (VIDEO IN/AUDIO IN (Left/Right))** Connect the audio/video output of an external source (Audio system, TV/Monitor, another VCR). **S-VIDEO OUT (DVD OUT)** Connect to a S-Video Input on TV. **AUDIO OUT (Left/Right) (DVD OUT)** Connect to a TV, amplifier, receiver, or stereo system.



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DIGITAL AUDIO OUT (COAXIAL) (DVD OUT) Connect to digital (coaxial) audio equipment.

AC Power Cord Plug into the power source. RF. OUT(DVD/VCR OUT) Connect to a TV with RF coaxial inputs. ANTENNA INPUT Connect the VHF/UHF/CATV antenna to this terminal. Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit. 10 Connections Without Cable Box ips 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 11-13. 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/VCR AUDIO OUT jack to the audio in jacks of your amplifier, receiver, stereo or audio/video equipment.

See Optional, Preferred TV Connections on pages 12-13. 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 using the CH (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/VCR AUDIO OUT jack to the phono in jack (record deck) of your audio system. Do not connect your DVD+VCR via your VCR. The DVD image could be distorted by the copy protection system. otes 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 as indicated on page 15. 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. ip If your antenna lead wire is a flat type antenna cable, connect it to a Antenna Adapter (300-ohm to 75-ohm) (not supplied) and slip the Adapter onto the ANT.IN jack. The Adapter does not screw on to the DVD+VCR, it just slips over the jack. Antenna Antenna Cable TV Wall Jack Flat Wire (300 ohm) Cable TV Wall Jack Back Panel of Typical Cable Box Rear of DVD+VCR 300/75 ohm

Adapter (Not supplied) OR OR Rear of DVD+VCR 11 PREPARATION Connections (Continued) Basic TV Connections Make one of the following connections, depending on the capabilities of your existing equipment. Optional, Preferred TV Connections otes You can watch and listen ONLY to DVD playback through the connections shown below. 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). ote 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 1. While the DVD+VCR is turned off, press and hold CH (v/V) on the front panel for about five seconds. The unit will turn itself on and "RF 03" or "RF 04" appears in the display window. S-Video connection 1 Connect the S-VIDEO OUT jack on the DVD+VCR to the S-Video in jack on the TV using an optional S-Video cable (S). Right 2 Connect the Left and audio AUDIO OUT jacksonofthe the DVD+VCR to the left/right in jacks TV using the supplied audio cables (A2).

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 an optional Y Pb Pr cable (C). 2. Use CH (v/V) on the front panel or v/V on the remote control to change the RF output channel (CH 03 or CH 04). 3. Turn off and on the DVD+VCR.

the Right AUDIO OUT 2 Connect usingLeft and audio audio cables.jacksonofthe the DVD+VCR to the left/right in jacks TV (A2) the supplied Rear of TV S-VIDEO INPUT COMPONENT VIDEO INPUT AUDIO INPUT Audio/Video connection 1 Connect the DVD/VCR VIDEO OUT jack on the DVD+VCR to the video in jack on the TV using the video cable supplied (V). Pr Pb Y R L the Left and Right DVD/VCR AUDIO 2 Connect the TV (A1) usingthe audio left/right inOUT jacks on DVD+VCR to jacks on the the supplied audio cables. ote If you use this connection, set the TV's source selector to VIDEO. Rear of TV

ANTENNA INPUT AUDIO INPUT VIDEO INPUT S C A2 L R Rear of DVD+VCR R A1 V Rear of DVD+VCR 12 Connections (Continued) Optional, Preferred TV Connections ote You can listen to ONLY DVD playback using COAXIAL (X) and AUDIO OUT (A2) connections. The tuner and VCR will still be heard through the RF.OUT (R) or DVD/VCR AUDIO OUT (A1) jack. (See page 12.) 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/VCR 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 (for A1 or A2 connection) 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 DigitalTM, MPEG 2, or DTS) L R COAXIAL DIGITAL INPUT AUDIO INPUT Amplifier (Receiver) 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. Accessory Audio/Video (A/V) Connections to DVD+VCR Connect the VCR IN LINE 1 or AV INPUT jacks on the DVD+VCR to the audio/video out jacks on your accessory component, using the optional audio/video cables. need to activate the DVD+VCR's digital 2 You will(See "Digital Audio Output" on page 19). output. 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. otes 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.



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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 13 PREPARATION Before VCR Operation On-Screen Display (OSD) Some of these functions will be displayed every time the VCR is operated. PLAY SP EASY INFORMATION If the Extended Data Service (XDS) signals are provided along with normal TV signal in your area or during playback of a tape recorded with Extended Data Service (XDS) signals, the station ID, program title, and program details are shown on the TV screen. When viewing a channel with Extended Data Service (XDS) signals, press SELECT/ENTER and the station ID will appear on the TV screen. Press SELECT/ENTER again and the program details will appear on the TV screen.

When viewing a tape recorded with Extended Data Service (XDS) signals, press SELECT/ENTER twice and the program title and program details will appear on the TV screen. PROGRAM DETAILS LENGTH: Indicates the run length of a program. TIME REMAINING: Indicates the remaining time of a program. RATING: Indicates the rating of the current program (N/A, G, PG, PG-13, R, NC-17, X and Not Rated). The rating N/A means that the motion picture ratings are not applicable to this program.

SP CH 4 WABC STEREO PROGRAM DETAILS "Home video" LENGTH 01:00 TIME REMAINING 00:26 RATING N/A HI-FI CH 4 STEREO JUL 5, SAT 2:15 PM TAPE SPEED DISPLAY Shows the current tape speed. FUNCTION DISPLAY Indicates the function in progress. HI-FI DISPLAY Indicates when this unit is playing back tape recorded with Hi-Fi. 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. DATE DISPLAY Shows the current date. (Month/Date/Day of the week format) "Home video" JUL 5, SAT 2:15 PM CLOCK/COUNT/REMAIN DISPLAY Shows the current time, the tape counter and remaining time on the tape. Easy Information Screen (Station ID) Easy Information Screen (Program details) On-Screen Menus Setup The SETUP, clock setting (CLOCK), and timer recordings (PROGRAM) are accessed conveniently with the on-screen menus, that lead you through each step. The following pages describe the on-screen menu selections available. Each press of the SELECT/ENTER changes the TV on-screen displays in the following sequence.

STOP SP CH 4 STEREO Menu Selection JUL 5, SAT 2:15 PM 2:15 PM 0:35:40 REM 1:58 Your VCR allows remote control adjustment of several features.

Press MENU and the MAIN menu will appear. 1 Select the 2 then press desired menu with v/V button and SELECT/ENTER. Note MAIN MENU notes The function displays remain on the TV screen for 5 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. Menus remain on-screen for 3 minutes. CLOCK SET (page 16) PROGRAM (page 22) TUNING (page 15) SETUP (page 15) 14 3 Press MENU when finished. Before VCR Operation (Continued) Setting the VCR Setup Menu Options Channel Selection PREPARATION 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 11. 1 Press MENU and the MAIN menu will appear. v/V to V the SETUP 2 Use SETUP select will appear. menu, then press SELECT/ENTER.

The menu AUTO CHANNEL PROGRAMMING V to choose desired option on 3 Use v/V menu. Then use b/B to choose the B SETUP desired setting. FUNCTION OSD The on-screen display of this DVD+VCR can be turned on or off. FUNCTION OSD can be switched between ON and OFF by using b/B. 1 Press MENU and the MAIN menu will appear.

v/V to V 2 Use TUNING select the TUNING menu, then press SELECT/ENTER. The menu will appear. LANGUAGE SELECT The on-screen programming of this DVD+VCR can be displayed in either English, Spanish, or French. LANGUAGE SELECT can be switched among ENGLISH, SPANISH and FRENCH by using b/B. 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 using b/B. to the SOURCE 3 Use V use choose select TUNER.

SELECT option, b/B to B then Press b/B repeatedly to switch between TUNER, LINE1 and LINE2. V to the 4 Use v/V then choose B to AUTO CHANNEL SET option, use b/B set the channel. The tuner will automatically cycle through all available channels in the area and place them in the tuner's memory.

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 using b/B.

SET the 5 After the AUTO CHANNEL TV or has found all the available channels, set the TUNING BAND on the Tuning Menu, Choose CATV using 6 v/V or CH (v/V) on the front panel to cycle V v/V 7 Use DVD+VCR through the channels in memory. the 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 CH. ADD/DEL option on the TUNING menu. Using 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. b/B arrows. B 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.



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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 using b/B. 2 3 4 Press MENU when finished. 15 Before VCR Operation (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 while the DVD+VCR is turned off. ote 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.

Things to know before starting The clock uses the 12-hour system. (Be sure to set AM and PM correctly.) (AM does not appear.) The initial Clock Setting is JANUARY 1, 2003, 12:00 AM. Manual Clock Set 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. 1 Press MENU and the MAIN menu will appear. v/V to V CLOCK menu. 2 Use appear.

choose the and the CLOCK menu Press SELECT/ENTER will The Auto Clock feature enables the DVD+VCR to set up the clock when the DVD+VCR is turned off. 1 Press MENU and the MAIN menu will appear. v/V to V CLOCK menu. 2 Use appear.choose the and the CLOCK menu Press SELECT/ENTER will B 3 Use b/B to choose the month. to choose the DAY option. 4 Use V/B to choose the date. Use b B The day of the week will display automatically. to choose the YEAR 5 Use V/B to choose the year.option.

Use b B to choose the TIME option. 6 Use V/B to choose the time. Use b B 3 Use V to choose the AUTO CLOCK SET option. B Use 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. E F Press and hold b/B to advance clock continuously. 7 Use Use E F to choose the DAYLIGHT SAVINGS item. or G to choose AUTO, ON or OFF.

Use 4 option.to choose the DAYLIGHT SAVINGS Use or G If you choose AUTO, the VCR sets the clock using the DST information broadcast in the signal (channel). If you choose ON, the VCR adjusts the clock for Daylight Saving Time. to choose AUTO, ON or OFF. Use 5 Use If you choose AUTO, the VCR sets the clock using the DST information broadcast in the signal (channel). If you choose ON, the VCR sets the clock when the Daylight Saving Time is started and ended. E F to choose the TIME ZONE item. or G to choose the correct time zone (AUTO, EASTERN, CENTRAL, MOUNTAIN, PACIFIC, ALASKA or HAWAII). If "AUTO" is selected as the time zone, the VCR sets the clock using the first Coordinated Universal Time information it finds in a broadcast signal. 8 Press MENU when finished.

ote 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. 6 the 7 Turn offsets DVD+VCR and the auto clock set feature the time. Use MENU when finished. 16 Before DVD Operation

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 A-B Repeat Off Resume play from this point Action prohibited or not available AB OFF On-Screen Display The general playback status can be displayed on the TV screen. Some options can be changed on the menu. On-screen display operation 1 Press DISPLAY during playback.

v/V to V 2 Use selectedselect an option. The option will be highlighted. b/B to B the setting 3 Use number changenumber).also of an option. The buttons can be be used for setting numbers (e.g., title For some functions, press SELECT/ENTER to execute the setting. DVD otes Some discs may not provide all of the features on the on-screen display example shown below. If no button is pressed for 10 seconds, the on-screen display disappears. Options Title Number 1/3 V Function (Use v/V to select desired option) Shows the current title number and total number of titles, and skips to the desired title number.

Shows the current chapter number and total number of chapters, and skips to the desired chapter number. Shows the elapsed playing time, and searches the point by the elapsed time directly. Shows the current audio soundtrack language, encoding method, and channel number, and changes the setting. Shows the current subtitles language, and changes the setting. Shows the current angle number and total number of angles, and changes the angle number. Shows the current sound mode, and changes the setting. Selection Method b/B, or B Numeric, SELECT/ENTER b/B, or B Numeric, SELECT/ENTER Numeric, SELECT/ENTER Chapter Number Time search Audio language and Digital Audio Output mode Subtitle language ABC 1/12 0:16:57 1 ENG D 5.1CH OFF b/B, AUDIO B b/B, SUBTITLE B b/B, ANGLE B b/B B Angle Sound 1/1 NORM. 17 PREPARATION CHAPT Repeat Chapter (DVD) Before DVD Operation (Continued) DVD Setup You can set your personal preferences on the DVD+VCR. Menu Language Select a language for the Setup menu.

This is the menu you see when you press SETUP. Disc Audio English Spanish French Disc Subtitle Disc Menu Rating Country Code TV Aspect Menu Language Original English French German Spanish Italian Chinese Polish Hungarian Other - - - - - Digital Audio Output 5.1 Speaker Setup Others General Operation 1 Press SETUP. The Setup menu appears. Disc Audio Disc Subtitle Disc Menu Rating Country Code TV Aspect Menu Language Digital Audio Output 5.

1 Speaker Setup Others Picture TV Aspect DVD v/V to select the desired V 2 Use screen will show theascurrentoption. for the The setting selected option, as well alternate setting(s). While desired 3 then vtheto selectionoption is selected, use B, V /V the desired setting. Press SELECT/ENTER to confirm your selection. 4 Some options require additional steps.

H 5 Press SETUP, RETURN, or PLAY (H) to exit the Setup menu. 4:3 Letterbox: Select when a standard 4:3 TV is connected. Displays the picture with masking bars above and below the picture. 4:3 Panscan: Select when a standard 4:3 TV is connected. Displays the picture cropped to fill your TV screen. Both sides of the picture are cut off. 16:9 Wide: Select when a 16:9 wide TV is connected. Disc Audio Disc Subtitle Disc Menu Rating Country Code TV Aspect Menu Language 4:3 Letterbox 4:3 Panscan 16:9 Wide Language Disc Language DVD Digital Audio Output 5.



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1 Speaker Setup Select a language for the disc's: Menu, Audio, and Subtitle. Original : The original language set for the disc is selected.

Other : To select another language, use number buttons to enter the corresponding 4-digit number according to the language code list on page 36. If you enter the wrong language code, press CLEAR. Others ote Disc Language selection is not available on some DVDs. Disc Audio Disc Subtitle Disc Menu Rating Country Code TV Aspect Menu Language Digital Audio Output 5.1 Speaker Setup Others Original English French German Spanish Italian Chinese Polish Hungarian Other -- -- -- 18 Before DVD Operation (Continued) Sound Digital Audio Output Each DVD disc has a variety of audio output options. Set the DVD+VCR's Digital Audio Output according to the type of audio system you use. DOLBY DIGITAL/PCM: Select DOLBY DIGITAL/PCM if you have connected the DVD+VCR's DIGITAL AUDIO OUT jack to a Dolby Digital decoder (or an amplifier or other equipment with a Dolby Digital decoder).

Stream/PCM: Select Stream/PCM if you have connected the DVD+VCR's DIGITAL AUDIO OUT jack to an amplifier or other equipment with a DTS decoder, Dolby Digital decoder or MPEG decoder. PCM: Select when connected to a 2 channel digital stereo amplifier. The DVD+VCR outputs sounds in the PCM 2ch format when you play a DVD video disc recorded with a Dolby Digital, MPEG1, or MPEG2 recording system.

Disc Audio Disc Subtitle Disc Menu Rating Country Code TV Aspect Menu Language Digital Audio Output 5.1 Speaker Setup Others Sample Freq. 48 KHz 96KHz DOLBY DIGITAL Others The DRC, Vocal and Auto Play settings can be changed. Use v/V to select the desired option and press SELECT/ENTER. The options can be turned On or Off.

Disc Audio Disc Subtitle Disc Menu Rating Country Code TV Aspect Menu Language Digital Audio Output 5.1 Speaker Setup Others Auto Play Off DRC Vocal On 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. Sample Frequency To change the Sample Frequency setting, first select the desired Digital Audio Output as indicated above. If your receiver or amplifier is NOT capable of handling 96KHz signals, select 48KHz. When this choice is made, this unit will automatically convert any 96KHz signals to 48KHz so your system can decode them. If your receiver or amplifier is capable of handling 96KHz signals, select 96KHz. When this choice is made, this unit will pass each type of signal through without any further processing. Auto Play DVD You can set up the DVD Player so a DVD disc automatically starts playing whenever the DVD is inserted. If Auto Play mode is set to On, this DVD player will search a title that playback time is long most and then play back the title automatically. On: Auto Play function is activated.

Off: Auto Play function is not activated. ote The Auto Play function may not work for some DVDs. 19 PREPARATION Before DVD Operation (Continued) Parental Control Rating DVD Country Code 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 Country Code TV Aspect Menu Language Digital Audio Output 5.1 Speaker Setup Others 8 7 6 5 4 3 2 1 Unlock Change Enter the code of a country whose standards were used to rate the DVD video disc, referring to the list (See "Country Code List", page 37).

Disc Audio Disc Subtitle Disc Menu Rating Country Code TV Aspect Menu Language Digital Audio Output 5.1 Speaker Setup Others Code Set US V Select Rating 1 buttons. on the Setup menu using v/V 2 While Rating is selected, press B. not entered password yet. 3 When you have personal using the numbered but Enter 4-digit password tons to create a 4-digit security password, then press SELECT/ENTER.

Enter the 4-digit password again and press SELECT/ENTER to verify. When you have already entered a password; Enter a 4-digit password using the numerical 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 4-digit security password again. Select 1 button the Country Code option using the v/V on the setup menu. 2 While Country Code is selected, press B.

3 Follow step 3 of "Rating" on left. 4 Select the first character using the v/V buttons. 5 Press 2 to shift to second character and select the second character using v/V buttons. SELECT/ENTER to confirm Country 6 Press selection, then press SETUP you exit the Code to menu. ote 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 1 Follow Steps 1-2 as shown above to the left (Rating). 2 Enter the old password, then press SELECT/ENTER. 3 Select Change using v/V buttons then press SELECT/ENTER. 4 Enter the new 4-digit password, then press SELECT/ENTER. 5 Enter exactly the same password a second time and verify by pressing SELECT/ENTER.

6 Press SETUP to exit the menu. V a rating to 8 using v/V buttons. 4 Select (8) has the from 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. @@@@1 Press SETUP to display the setup menu. @@@@1 Press BACKWARD (.) or FORWARD (>) during playback. @@ Make sure that the indicator in the display window is not lighted.

If it is, press POWER once. @@@@2 Press PAUSE/STEP (X) repeatedly to advance the PLAY (H once. 2 Press appears H) the TV screen. PLAY on Press STOP (x) 3 STOP appears x onto stop playback. @@ It will be automatically selected by the DVD+VCR.

@@@@@@@ Tape speed (SP, LP, SLP) changes.



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@@1 Press CM Skip during playback. @@@@This is normal. @@@Slight interference may be observed during this period. 2 When the search is complete, the DVD+VCR will go into playback mode automatically. EZ (EASY) Review You can replay a specified segment twice. During playback, press and hold EZ REVIEW for more than 3 seconds at the end of the segment and your VCR will start reverse search. Release EZ REVIEW at the beginning of the segment. The segment is replayed twice automatically. H To return to normal play, press PLAY (H) during easy review playback.

1 2 21 OPERATION Tape Operation (Continued) Normal Recording Preparation: Turn on the power of both the DVD+VCR and TV. @@ 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 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 with the safety tab intact. V 2 Select the desired channel by using v/V. 3 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 TUNING BAND in the TUNING menu is set appropriately (TV or CATV). Set the desired recording speed (SP or SLP) with the SP/SLP button. This DVD+VCR is not designed to record in LP mode. 4 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 PROGRAM menu. the display window.) to go to 3 Press SELECT/ENTER will appear.

the PROGRAM menu. The PROGRAM menu Set the MTS mode as desired (See page 15, 25). REC indicator appears only when the Output Source is set to VCR. If a cassette with no safety tab is loaded, the cassette will be ejected automatically. 6 x Press STOP (x) to stop recording. If the tape reaches the end before STOP (x) is pressed, the DVD+VCR will automatically stop, rewind, eject the tape and turn itself off. If all 8 programs have been entered, FULLY PROGRAMMED message will appear for a moment and then PROGRAM 1 will appear on the TV screen. To pause 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. To record one TV program while watching another 1 Use TV/VCR to select the TV mode during recording. The TV indicator appears. 2 Using the TV, select the channel to be viewed. ips 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 11), 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. 22 Tape Operation (Continued) 10 Use V to choose the SPEED option. B Use b/B to choose the desired recording speed (AUTO, SP or SLP). AUTO mode determines how much tape is left and switches speed from SP to SLP, if necessary, to complete recording the program. There will be some picture and sound distortion at the point of the speed change. Checking (Erasing) Timer Record Programming OPERATION 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 PROGRAM menu. Press SELECT/ENTER and the PROGRAM menu will appear. 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. 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. Program Priority ip If the input data is wrong, use v to select the data B and correct it using b/B.

If the starting and ending times of two or more timer recordings overlap on the same day, priority is given to the earliest recording. For example, in the diagram at 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. Likewise, Program number 3 will not be recorded until Program number 2 is finished, and so on. 12 Press MENU, the program will be memorized by the DVD+VCR. indicator lights in the display window. If the program preset time has past, the PAST TIME PROGRAMMED message will appear on the TV screen. Return to the incorrect program and program it with the correct time. If you had entered a past date, 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. ip If you are finished programming and you want to set the DVD+VCR to record the programs you have entered, MAKE SURE YOU HAVE INSERTED A TAPE INTO THE DVD+VCR. The DVD+VCR is now set to record the preset programs. otes 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. After setting up a timer recording, recording will start if no other timer recordings are scheduled to occur at the same time (see "Program Priority" at right).



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23 Tape Operation (Continued) Instant Timer Recording 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). 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 13. outputs as illustrated on input 2 Set the LINE2.

channel "LINE2". (use INPUT to select 1 Insert a video cassette with the safety tab intact. vV number 2 Select the desired channel with the V or screen. (0-9). The channel number appears on TV 3 4 5 If you are recording from another source via audio/video input jacks (at the Rear or Front panel), select LINE1 or 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 twice. tape in the camcorder another 3 Play the you you can TV attached (or playing. VCR). If have a to your DVD+VCR, see the video Select the desired recording speed (SP or SLP) with the SP/SLP button. 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 indicator will light) to begin, 4 When you desire the recording to start. press z DVD+VCR's REC/ITR (z) once ote Before recording, please confirm the recording start position.

Copying from DVD to VCR This unit allows you to copy the contents of a DVD to a VHS tape. ote 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. z Press REC/ITR (z) repeatedly to select the recording time length. At the end of the recording, the DVD+VCR will stop 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 MENU INSTANT TIMER RECORD CHANNEL SPEED START LENGTH 2 SP NOW 0H30M 0H30M ..

... 9H00M 0H00M Length Display (each additional press of z REC/ITR (z) increases recording time 30 minutes) 1 Checking the Recording Time Press REC/ITR (z) once to check the recording time. The recalled setting will automatically return to the TV screen after 6 seconds.

2 Insert a VHS Tape video tape into the VCR deck. Insert blank VHS COPY button unit front panel. 3 Press the will go mode. Play on the and the VCR will The DVD into mode go into Record If the DVD disc menu appears, you may need to press PLAY PLAY (H) manually to begin copying. "COPY" indicator will light.

Insert Disc Insert the disc you wish to copy in the DVD deck and close the disc tray. To extend the Recording Time The recording time can be extended anytime by pressing REC/ITR (z). Subsequent presses result in advancing the recording time by 30-minute increments. otes If you press PAUSE/STEP (X) during instant timer recording, the DVD+VCR will enter the recording pause mode. Instant timer recording is cancelled. If the DVD+VCR is set to "0H00M", the DVD+VCR goes to normal recording mode. 4 Stop the Copy Process ote When the DVD is finished playing, press the VCR button on the remote control and then press STOP (x) to end copying. You must stop the Copy process manually when the DVD movie ends, or the unit may replay and record over and over again. When you stop the DVD playback during copying, the VCR recording mode stops automatically. 24 Tape Operation (Continued) VHS Hi-Fi Stereo System/ MTS Broadcast This DVD+VCR is equipped with the VHS Hi-Fi audio sound system for recording and playback.

The information below gives a brief description of Hi-Fi audio and how to record and play a tape in the Hi-Fi audio mode. MTS (Multi-Channel TV Sound)

This DVD+VCR will decode MTS stereo and bilingual (SAP) off-the-air broadcast sound signals. It also decodes stereo TV sound from local cable companies, as long as they operate on assigned cable frequencies and use the EIA-recommended MTS stereo/bilingual TV sound system. Playback with Hi-Fi Stereo Audio Sound A stereo TV with AUDIO/VIDEO input jacks or a stereo audio system is required for true stereo playback. To experience the full and rich stereo sound available with Hi-Fi recorded tapes, we recommend the connection of this unit to a home stereo audio system. Multichannel TV Sound Indicator (MTS) Shows onscreen as illustrated below when SELECT/ENTER is pressed. One or both of the indicators will light, depending on the MTS broadcast. TV screen CH 4 STEREO/SAP 1 Set the AUDIO MODE option to HI-FI on the SETUP menu . STEREO Lights up when a stereo broadcast is being received. SAP Lights up when a SAP BILINGUAL broadcast is being received.

If only STEREO appears on the TV screen. The DVD+VCR can record in stereo onto the VHS Hi-Fi audio tracks when the BROADCAST TYPE option is in the STEREO position. The DVD+VCR will also record mono audio onto the mono audio track. 2 Set the AUDIO OUTPUT option to STEREO position.

(STEREO) POSITION: The left channel sound (L) is heard from the left speaker and the right channel sound (R) is heard from the right speaker.

(LEFT) POSITION: The left channel sound (L) is heard from both speakers. (RIGHT) POSITION: The right channel sound (R) is heard from both speakers. If only SAP appears on the TV screen. Set the BROADCAST TYPE option to SAP. If STEREO/SAP appears on the TV screen Use the BROADCAST TYPE option to select the desired recording mode (STEREO or SAP).

SAP (Second Audio Program) Recording Some stations transmit a Second Audio Program, which is used for a second language or additional information. When the station broadcasts a Second Audio Program, follow the procedure below to record the SAP. Insert a video cassette with the safety tab intact. 3 Press MENU. Insert and press PLAY H 4 Adjust a cassette your stereo system. (H). volume at 1 2 Set the BROADCAST TYPE option to SAP (SETUP menu). Do this if only the SAP appears on the TV screen or you know the program will use the SAP. 3 Press MENU. 4 Select the desired recording speed (SP or SLP) with the SP/SLP button.

desired 5 Select the screen. channel. SAP should appear on the TV z 6 Press REC/ITR (z) once x 7 Press STOP (x) to stop recording. 25 You are now recording the program you see and hear on the TV. OPERATION Tape Operation (Continued) Tape Counter Memory Feature Real-Time Counter Shows length of tape run in hours, minutes, and seconds. Press CLK/CNT to select the real-time counter display. Every press of CLK/CNT changes the TV screen as illustrated below.



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