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You can read the recommendations in the user guide, the technical guide or the installation guide for ZENITH XBS444. You'll find the answers to all your questions on the ZENITH XBS444 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ZENITH XBS444
User guide ZENITH XBS444
Operating instructions ZENITH XBS444
Instructions for use ZENITH XBS444
Instruction manual ZENITH XBS444

Installation and Operating Guide | Warranty

Model Number | XBS444 | DVD+Hi-Fi VCR System
(Speakers: LHS-C6238T/LHS-C6238W)



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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. 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. **OTES 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+Hi-Fi VCR System 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 center see back page for instructions. 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.** **CAUTION:** The apparatus should not be exposed to water (dripping or splashing) and no objects filled with liquids, such as vases, should be placed on the apparatus.

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



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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

Precautions

.
.

. 2 IMPORTANT SAFETY INSTRUCTIONS .

. 3 Table of Contents .

.
.
.

. 4 Before Use

.
.
.

. 5-6 Playable Discs

.
.
.

. . . 5 Precautions

.
.
.

. 6 Notes on Discs

.
.
.

. 6 About Symbols . . .

.
.
.

. . . 6 Front Panel Controls

.
.
.

. . 7 Display Window Indicators . . .

.
.
.

. 8 Remote Control Buttons

.
.
.

. 9 Rear Panel Connections . . .

.
.
.

. . 10 Search . . .

.
.
.

. 30 Repeat . . .

.
.
.

30 Repeat A-B

.
.
.

30 Time Search

.....	
.....	
....	<i>30 3D Surround</i>
.....	
.....	
.....	<i>30 Zoom</i> ..
.....	
.....	
.....	<i>30 Marker Search</i> ..
.....	
.....	
.....	
.....	<i>31 Special DVD Features</i>
.....	
.....	
.....	<i>31 Checking the contents of DVD Video discs: Menus</i> . <i>31 Title Menu</i> ...
.....	
.....	
.....	<i>31 Disc Menu</i> ..
.....	
.....	
.....	<i>31 Camera Angle</i>
.....	
.....	
.....	<i>31 Changing the Audio Language</i> ...
.....	
.....	<i>31 Subtitles.</i> ..
.....	
.....	
.....	<i>31 Audio CD or MP3/WMA Disc Operation</i>
.....	<i>32-33 Playing Audio CDs or MP3/WMA Discs</i> ...
.....	<i>32 Notes on MP3/WMA Recordings</i> .
.....	
.....	<i>32 Pause</i>
.....	
.....	
.....	<i>33 Changing Tracks</i>
.....	
.....	
.....	<i>33 Repeat Track/ All/ Off.</i>
.....	
.....	<i>33 Search.</i>
.....	
.....	
.....	<i>33 Repeat A-B</i> ..
.....	
.....	
.....	<i>33 3D Surround</i>
.....	
.....	
.....	<i>33 Changing the Audio Channel</i> ...

.....	33 JPEG File Operation .
.....
.....
.....
..	34 Programmed Playback
.....
.....
...	35 Programmed Playback with Audio CDs and MP3/WMA Discs
.....
.....	35 Repeat Programmed Tracks .
.....
.....	35 Erasing a Track from the Program List
.....
.....	35 Erasing the entire Program List
.....	35 Speaker Setup
.....
.....
.....	36 Radio Operation ...
.....
.....
.....
.....	37-38 Presetting Radio Stations
.....
.....	37 Radio Operation.
.....
.....
.....	37 To Clear Stored Radio Stations .
.....
.....	37 Tuning Stations Manually ...
.....
.....
.....	38 Tuning Stations Automatically.
.....
.....
.....	38 Mute
.....
.....
.....
...	38 Pre-operation Setup Connections
.....
.....
.....
11-14	Connecting Antenna/Cable TV to DVD+Hi-Fi VCR System
.....
.....
.....	11 Basic TV Connections ...
.....
.....
...	12 Accessory Audio/Video (A/V) Connections to DVD+Hi-Fi VCR System ...
.....
.....
.....	13 Radio Antenna Connections
.....
.....
.....	13 Speaker System Connections
.....
.....
.....	14 Speaker Positions

.....

.....

..... 14 Glossary for Audio Stream & Surround mode ..

.....

..... 15 VCR Pre-operation Setup

.....

..... 16-18 On-Screen Display (OSD) ..

.....

..... 16 On-Screen Menus Setup

.....

.....

..... 16 VCR Setup Menu Options

.....

.....

..... 17 Channel Selection

.....

.....

..... 17 Setting the Clock

.....

.....

..... 18 DVD pre-operation Setup ...

.....

..... 19-22 manufacturer, some playback features of the unit may not be available or other functions may be added.

Make sure to also refer to the instructions supplied with the DVDs. Some DVDs made for business purposes may not be able to be played on the unit. Regional code of the DVD+Hi-Fi VCR and DVDs This DVD+Hi-Fi VCR is designed and manufactured for playback of Region "1" encoded DVD software. The region code on the labels of some DVDs indicates which type of DVD+Hi-Fi VCR can play those discs. This unit can only play DVDs labelled "1" or "ALL".

If you try to play any other discs, the message "Check Regional Code" will appear on the TV screen. Some DVDs that have no region code label may still be subject to area restrictions and therefore not playable. Disc-related terms Title (DVD only) The main film content or accompanying feature content or additional 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, enabling you to locate the chapter you want. Depending on the disc, no chapters may 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. 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 1 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 5 INTRODUCTION AAA Before Use (Continued) Precautions Handling the unit 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. 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. Keeping unit surfaces 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, benzine, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records. Disc Symbols About the symbol display Cleaning the unit Cleaning 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, benzine, or thinner, as these might damage the surface of the unit. To obtain a clear picture The DVD+Hi-Fi VCR is a high-tech, precision device.



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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 on manual pages 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 disc WMA WMA disc. JPEG JPEG disc Notes on Discs Disc handling 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 Viewing Sources 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 CD/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. · 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+Hi-Fi VCR System is in the VCR mode, the DVD+Hi-Fi VCR System will switch to DVD mode automatically.

· If you insert a cassette tape without prevention tab while the DVD+Hi-Fi VCR System is in the DVD mode, the DVD+Hi-Fi VCR System will switch to VCR mode automatically. 6 Front Panel Control Functions Z OPEN/CLOSE (Z) Opens and closes the disc tray. Remote Sensor Point the remote control here. Disc Tray (DVD deck) Insert a disc here. MONO/STEREO Selects stereo or mono mode for FM tuning.

FM/AM Switches between AM and FM bands. Z EJECT(Z) Ejects a tape in the VCR deck. x STOP (x) Stops playback of a disc or tape. PLAY (B) Plays back a recorded tape or disc. Cassette Compartment (VCR deck) Insert a video cassette here.

Display window DVD/VCR indicator Indicates the active deck. DVD/VCR (output select) Selects the DVD or VCR output sources to view on the TV screen. 43 TUNING / CHANNELS (4/3) Tunes in the desired station (Radio Mode). Scans up or down through memorized channels (VCR mode). z REC/ITR (z) Records normally or activates Instant Timer Recording. Press to copy a DVD in the DVD deck to a VHS tape in the VCR deck. LINE 2 (VIDEO 2/AUDIO IN (Left/Right)) Connect the audio/video output of an external source (Audio system, TV/Monitor, another VCR). SQ Reverse SKIP/SCAN (S/Q) DVD: Goes to the beginning of current chapter/track or to the previous chapter/track. Press and hold for two seconds for a fast reverse search. VCR: Rewinds the tape from the STOP mode or for fast reverse picture search.

RT Forward SKIP/SCAN (R/T) DVD: Goes to NEXT chapter/track. Press and hold for two seconds for a fast forward search. VCR: Advances the tape from the STOP mode or for fast forward picture search. STANDBY/ON indicator Switches the DVD+Hi-Fi VCR ON and OFF. VOLUME Control Turn the knob clockwise to increase sound level, counterclockwise to decrease sound level. 7 INTRODUCTION 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. Display Window Indicators A disc is loaded in the DVD deck. (Lights when a disc is loaded in the DVD deck and flashes when the disc tray is opened.) Indicates current audio stream. Indicates the unit is in the radio recording mode. Indicates the current surround mode. Lights up when an SAP BILINGUAL broadcast is being received. Programmed playback active. DVD+Hi-Fi VCR is in VCR timer recording mode or a VCR timer recording is programmed. DVD to VCR copy is in progress.

DVD+Hi-Fi VCR is Recording a tape. Indicates the unit is playing back a tape recorded in Hi-Fi. MUTE indicator A cassette is loaded in the VCR deck. DIGITAL PCM PHOTO P/SCAN dts PROLOGIC SAP II PROG TITLE CHPTRK COPY REC Hi-Fi MUTE RADIO DVD VCR MP3 TV ST RPT ALL A B Indicates current chapter, track number or channel number. Total playing time/Elapsed time/ Frequency/remaining time/ Current deck status/Surround mode/Volume etc.

indicators. Indicates the unit is in the TV mode. MP3 or WMA disc inserted. Repeat playback mode indicators. Indicates the unit is in the recording mode. DVD disc inserted. Lights up when a stereo broadcast is being received. Indicates the unit is in progressive on mode. JPEG file disc inserted 8 Remote Control Button Functions FM/AM Tuner select Select FM or AM band as the listening choice. (FM and AM bands) POWER Switches DVD+Hi-Fi VCR ON and OFF.

VIDEO 1/2 MUTE Turns the sound on and off temporarily. EJECT OPEN/CLOSE POWER - Opens and closes the disc tray. - Ejects a tape in the VCR deck. CD/DVD/VCR select Selects the output source (CD/DVD or VCR) to view on the TV screen. SOUND MODE Selects sound mode. VCR FM/AM VIDEO 1/2 0-9 Number Keypad Selects numbered options in a menu. CD/DVD CLEAR Removes a track number on the program menu or a mark on the MARKER SEARCH menu. Clears preset stations from the tuner memory. ANGLE Selects a DVD camera angles if available. MUTE PROGRAM Accesses or removes Program menu.

SOUND MODE AUDIO Selects an audio language (DVD) or an audio channel (CD). ZOOM Enlarges DVD video image. PROGRAM CLEAR AUDIO SUBTITLE Selects a subtitle language. MARKER Marks any point during playback. ZOOM ANGLE SUBTITLE TITLE TITLE Displays the disc's Title menu, if available.

SEARCH Displays MARKER SEARCH menu. MARKER INPUT DISPLAY, CLK/CNT Accesses On-Screen display. Switches between the clock, tape counter and tape remaining modes on the display. SEARCH DISPLAY CH/TRK /PRESET CLK/CNT INPUT VOLUME Selects the VCR deck's source (Tuner, LINE 1, or LINE 2). VOLUME (+/-) SETUP Adjusts speaker sound.

b/B/v/V (left/right/up/down) - Select menu options. - CH/TRK/PRESET(v/V): Selects VCR or Tuner channels. Manually adjust the tape's picture onscreen. - TUNING(b/B): Tunes in the desired station. MENU MEMORY TUN -ING SETUP, MENU Accesses or removes DVD Setup menu and VCR menu. TUN -ING ENTER RETURN CH/TRK /PRESET CM SKIP STOP PAUSE/STEP PLAY DISC MENU MEMORY/ENTER - Acknowledges menu selection. - Displays functions on the TV screen. - Stores a radio station's frequency in the tuner's memory. BACKWARD FORWARD RETURN Removes the Setup menu. REC/ITR REPEAT REPEAT A-B SPEED TV/VCR DISC MENU Accesses menu on a DVD disc.



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CM SKIP Fast forwards picture search through 30 seconds of recording. XC PAUSE/STEP (X/C) Pause playback or recording temporarily/press repeatedly for frame-by-frame playback. x STOP (x) Stops playback. N PLAY (N) Starts playback. z REC/ITR (z) Records normally or activates Instant Timer Recording. . BACKWARD (.) DVD: Search backward*/go to beginning of current chapter or track or go to previous chapter or track. VCR: Rewinds the tape from STOP mode or for fast reverse picture search. * Press and hold button for about two seconds.

REPEAT/A-B/SPEED - Repeat chapter, track, title, all. - Repeats sequence. - Selects recording speed. TV/VCR Switch to view channels selected by the VCR tuner or by the TV tuner. 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 CD/DVD button. > FORWARD (>) DVD: Search forward*/go to next chapter or track. VCR: Advances the tape from STOP mode or for fast forward picture search.

9 INTRODUCTION Z OPEN/CLOSE, EJECT (Z) Select input source. Rear Panel Connections VIDEO 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 an S-Video Input on TV. FOR DVD VIEWING ONLY. SPEAKER CONNECTORS Connect the six supplied speakers to these terminals. MONITOR OUT Connect to a TV or MONITOR AC Power Cord Plug into the power source. FRONT (R 4) REAR CENTER (4) (R 4) REAR (L 4) SUB FRONT WOOFER (L 4) (8) S-VIDEO OUT AM VIDEO VIDEO 1 MONITOR COMPONENT OUT VIDEO OUT GND SPEAKERS FM ANTENNA IN OUT Y L AUDIO Pb R Pr ANTENNA/CABLE COMPONENT VIDEO OUT (Y Pb Pr) (DVD OUT) Connect to a TV with Y Pb Pr inputs. ANTENNA/CABLE OUT Connect to a TV with RF coaxial inputs. ANTENNA/CABLE IN Connect the VHF/UHF/CATV antenna to this terminal. FM ANTENNA CONNECTORS Connect the FM antenna to this terminal.

AM ANTENNA CONNECTORS Connect the AM 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 to connect the DVD+Hi-Fi 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. 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 ANTENNA/CABLE IN jack on the DVD+Hi-Fi VCR. Use the supplied round coaxial cable to connect between the DVD+Hi-Fi VCR's ANTENNA/CABLE 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. Caution Make sure the DVD+Hi-Fi VCR is connected directly to the TV.

Tune the TV to the correct video input channel. Do not connect your DVD+Hi-Fi VCR via your VCR. The DVD image could be distorted by the copy protection system. With Cable Box If a converter is required in your cable system, follow the instruction below: The cable hookup permits both TV and DVD+Hi-Fi VCR operation. To view or record CATV channel 1 Tune the TV to the DVD+Hi-Fi VCR output channel (CH 3 or 4).

2 Set the DVD+Hi-Fi VCR channel selector to the output channel of the Cable Converter box by using the CH/TRK (v/V) of your DVD+Hi-Fi VCR. (Example: CH3) 3 Select the channel to view at the Cable Converter Box. Connecting Antenna/Cable TV to DVD+Hi-Fi VCR 1 Disconnect the antenna leads from the rear of the TV. of your antenna. If it 2 Identify the typeThiscable from is a 75 ohm coaxialis a round cable as illustrated, it antenna cable. cable will connect directly to the jack marked ANTENNA/CABLE IN on your DVD+Hi-Fi VCR. ip If your antenna lead wire is a flat type antenna cable, connect it to an Antenna Adapter (300-ohm to 75-ohm) (not supplied) and slip the Adapter onto the ANTENNA/ CABLE IN jack. The Adapter does not screw on to the DVD+Hi-Fi VCR, it just slips over the jack. Antenna Antenna Cable TV Wall Jack Flat Wire (300 ohm) 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 17. Cable TV Wall Jack Back Panel of Typical Cable Box FRONT (R 4) REAR CENTER (4) (R 4) REAR (L 4) SUB FRONT WOOFER (L 4) (8) 300/75 ohm Adapter (Not supplied) S-VIDEO OUT OR OR AM VIDEO VIDEO 1 MONITOR COMPONENT OUT VIDEO OUT GND SPEAKERS FM ANTENNA IN OUT Y L AUDIO Pb R Pr ANTENNA/CABLE Rear of DVD+Hi-Fi VCR FRONT (R 4) REAR CENTER (4) (R 4) REAR (L 4) SUB FRONT WOOFER (L 4) (8) S-VIDEO OUT AM VIDEO VIDEO 1 MONITOR COMPONENT OUT VIDEO OUT GND SPEAKERS FM ANTENNA IN OUT Y L AUDIO Pb R Pr ANTENNA/CABLE Rear of DVD+Hi-Fi VCR ote During DVD or VCR playback, THE DVD+Hi-Fi VCR is designed so that sound will be heard only from the unit's 5 speakers and subwoofer, (no sound output is provided to the TV if it is connected to the S-VIDEO OUT or MONITOR OUT on the unit with a optional cables. 11 SYSTEM SETUP Connections (Continued) Basic TV Connections Make one of the following connections, depending on the capabilities of your existing equipment. Progressive Scan (ColorStream® pro) connection If your television is a high-definition or "digital ready" television, you may take advantage of the DVD+Hi-Fi VCR's progressive scan output for the highest video resolution possible. If your TV does not accept the Progressive Scan format, the picture will appear scrambled if you try Progressive Scan on the DVD+Hi-Fi VCR. Connect the COMPONENT VIDEO OUT jacks on the DVD+Hi-Fi VCR to the corresponding IN jacks on the TV using an optional Y Pb Pr cable (C).

RF coaxial connection Connect the ANTENNA/CABLE OUT jack on the DVD+Hi-Fi 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+HiFi VCR's RF output channel (CH 3 or 4). How to set the DVD+Hi-Fi VCR's RF output channel 1. While the DVD+Hi-Fi VCR is turned off, press and hold TUNING (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. ote Set the Progressive option to "On" in the Setup menu for a progressive signal, see page 20. Rear of TV ANTENNA INPUT S-VIDEO INPUT AUDIO INPUT VIDEO INPUT COMPONENT VIDEO / PROGRESSIVE SCAN INPUT 2. Use TUNING (v/V) on the front panel to change the RF output channel (CH 03 or CH 04). 3. Turn the DVD+Hi-Fi VCR off and then on. 4. Select the TV's CH to 3 or 4 depending on the RF output channel you had selected.



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Now you can watch the DVD+Hi-Fi VCR playback on CH3 or CH4 of your TV. L R Y Pb Pr Video connection Connect the MONITOR OUT jack on the DVD+Hi-Fi VCR to the VIDEO IN jack on the TV using the video cable supplied (V). *otes* If you use this connection, set the TV's source selector to VIDEO. S R V C FRONT (R 4) REAR CENTER (4) (R 4) REAR (L 4) SUB FRONT WOOFER (L 4) (8) S-VIDEO OUT AM VIDEO 1 MONITOR COMPONENT OUT VIDEO OUT GND SPEAKERS VIDEO Y S-Video connection Connect the S-VIDEO OUT jack on the DVD+Hi-Fi VCR to the S-VIDEO IN jack on the TV using the optional SVideo cable (S). FM ANTENNA IN OUT L AUDIO Pb R Pr ANTENNA/CABLE Component Video (Color Stream®) connection Connect the COMPONENT VIDEO OUT jacks on the DVD+Hi-Fi VCR to the corresponding IN jacks on the TV using a Y Pb Pr cable (C). Rear of DVD & Hi-Fi Home Theater System 12 Connections (Continued) Accessory Audio/Video (A/V) Connections to DVD+Hi-Fi VCR Connect the VIDEO 1 or VIDEO 2 jacks on the DVD+Hi-Fi VCR to the AUDIO/VIDEO OUT jacks on your accessory component, using the optional audio/video cables. Accessory Device Jack Panel AUDIO OUTPUT R L VIDEO OUTPUT REAR L4) FRONT (L 4) SUB WOOFER (8) S-VIDEO OUT VIDEO 1 MONITOR COMPONENT OUT VIDEO OUT VIDEO Y RS L AUDIO Pb OR R IN OUT ANTENNA/CABLE Pr Rear of DVD & Hi-Fi Home Theater System Front of DVD & Hi-Fi Home Theater System Radio Antenna Connections Connect the supplied FM/AM antennas for listening to the radio. Connect the AM loop antenna to the AM antenna connector.

Connect he FM wire antenna to the FM antenna connector. *otes* To prevent noise pickup, keep the AM loop antenna away from the DVD+Hi-Fi VCR and other components. Be sure to fully extend the FM wire antenna. After connecting the FM wire antenna, keep it as close to horizontal as possible. AM Loop antenna (supplied) FM Wire antenna (supplied) FRONT (R 4) REAR CENTER (4) (R 4) REAR (L 4) SUB FRONT WOOF (L 4) (8 AM GND SPEAKERS FM ANTENNA IN 13 SYSTEM SETUP Connections (Continued) Speaker System Connections Connect the speakers using the supplied speaker cables. To obtain the best possible surround sound, adjust the speaker parameters; distance, level, etc.. Center Speaker Front Speaker (Right) Front Speaker (Left) FRONT (R 4) REAR CENTER (4) (R 4) REAR (L 4) FRONT (L 4) SUB WOOFER (8) S-VIDEO OUT AM VIDEO VIDEO 1 MONITOR OUT GND SPEAKERS FM ANTENNA IN OUT L AUDIO R ANTENNA/CABLE Subwoofer Rear Speaker (Right Surround) Rear Speaker (Left Surround) *otes* Be sure to match the speaker cable to the appropriate terminal on the connectors: + to + and - to -. If the cables are reversed, the sound will be distorted and will lack bass. When making the sound louder, adjust the sound level carefully to avoid excessive volume output to the speakers.

Only 2-channel stereo (Front Left, Front Right & Subwoofer) is available in VCR mode, thus sound might not be heard from center or rear speakers during VCR playback. (For further details about sound mode, please refer to next page.) Do not remove the front covers of supplied speakers. Speaker Positioning For a normal setup, use 6 speakers (2 front speakers, 1 center speaker, 2 rear speakers and a subwoofer). If you want to hear excellent bass sound or Dolby Digital surround, you should connect a subwoofer. Subwoofer · Front speakers Center Speaker From your listening position, place the speakers an equal distance away and with an interval of 45 degrees between speakers. Front Speaker Front Speaker (Right) · Center speaker (Left) It is ideal if the center speakers and front speakers are at the same height. You would normally place the center speaker Rear above or below television as shown. Rear Speaker · Rear speakers Speaker (Right) Place left and right behind the listening area. These speakers (Left) recreate sound motion and atmosphere required for surround sound playback.

For best results, do not install the rear speakers too far behind the listening position and install them at or above the level of the listener's ears. It is also effective to direct the rear speakers towards a wall or ceiling to further disperse the sound. For smaller room size, if the audience is near to the rear wall, place the rear speakers opposite each other, and 24 - 36 inches above the listeners' ears. Speaker Positioning Example · Subwoofer This can be placed in any front position.

14 Glossary for Audio Stream & Surround mode Sound Mode SYSTEM SETUP Allows you to enjoy 5.1(or 6) discrete channels of high quality digital audio from DTS program sources such as discs, DVD and compact discs, etc. bearing the trademark. DTS Digital Surround delivers up to 6 channels of transparent audio and results in exceptional clarity throughout a true 360 degree sound field. The term DTS is a trademark of DTS Technology, LLC.

Manufactured under license from DTS Technology, LLC. You can enjoy surround sound simply by selecting one of the pre-programmed sound fields according to the program you want to listen to. Each time you press the SOUND MODE button, the sound mode is changed in the following order; PRO LOGIC PLII MOVIE PLII MUSIC PLII MATRIX 3D SURROUND BYPASS ... The Dolby Digital surround format lets you enjoy up to 5.1 channels of digital surround sound from a Dolby Digital program source. If you play DVDs with " " mark, you can enjoy even better sound quality, greater spatial accuracy, and improved dynamic range. For DVD Operation You can change the sound mode of DVD (Dolby Digital, DTS, PRO LOGIC, etc.) by pressing the AUDIO button repeatedly on the remote during playback.

Although DVD contents differ from disc to disc, the following explains the basic operation when this feature is used. Each time you press AUDIO, the DVD+Hi-Fi VCR sound mode is changed in the following order; Use this mode when playing movie or Dolby Digital 2 channel which carries the " " mark. This mode provides the effect of being in a movie theatre or live concert house-an effect with an intensity which can only be obtained through DOLBY PRO LOGIC SURROUND. The effect of the front/back/left/right movement of the sound image, as well as the sense of fixed position in the sound image, is much clearer and more dynamic than before. For your reference · The DVD/CD Receiver memorizes the last mode setting for each source individually. · You can identify the encoding format of program software by looking at its packaging. - Dolby Digital discs are labeled with the logo. - Dolby Surround encoded programs are labeled with the logo. - DTS Digital Surround discs are marked with DTS. *otes* When you play sound tracks with 96kHz sampling frequency, the output signals will be converted to 48kHz (sampling frequency).



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Sound Mode is not applicable when headphones are used. (II) Dolby Pro Logic II creates five full-bandwidth output channels from two-channel sources. This is done using an advanced, high-purity matrix surround decoder that extracts the spatial properties of the original recording without adding any new sounds or tonal colorations. MOVIE mode: The Movie mode is for use with stereo television shows and all programs encoded in Dolby Surround. The result is enhanced soundfield directionality that approaches the quality of discrete 5.

1-channel sound. MUSIC mode: The Music mode is for use with any stereo music recordings. MATRIX mode: The Matrix mode is the same as the Music mode except that the directional enhancement logic is turned off. It may be used to enhance mono signals by making them seem "larger." The Matrix mode may also find use in auto systems, where the fluctuations from poor FM stereo reception can otherwise cause disturbing surround signals from a logic decoder.

The ultimate "cure" for poor FM stereo reception may be simply to force the audio to mono. 3D SURROUND This unit can produce a 3D Surround effect, using 3D Surround Sound technology, which simulates multi-channel audio playback from two conventional stereo speakers instead of the five or more speakers normally required to listen to multi-channel audio from a home theatre. This feature works with DVD discs encoded with Dolby Pro Logic and Dolby Digital audio tracks. BYPASS Software with multichannel surround audio signals is played according to the way it was recorded. 15 VCR Operation Setup On-Screen Display (OSD) Some of these functions appear during VCR operation. 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 MEMORY/ENTER and the station ID will appear on the TV screen. Press MEMORY/ENTER again and the program details will appear on the TV screen. When viewing a tape recorded with Extended Data Service (XDS) signals, press MEMORY/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 the unit is playing back tape recorded in 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) Each press of MEMORY/ENTER changes the TV on-screen displays in the following sequence. STOP SP CH 4 STEREO On-Screen Menus Setup The SETUP, clock setting (CLOCK), and timer recordings (PROGRAM) functions are accessed conveniently with the on-screen menus, that lead you through each step. The following pages describe the on-screen menu selections available. JUL 5 , SAT 2:15 PM 2:15 PM 0:35:40 REM 1:58 Menu Selection Your VCR allows remote control adjustment of several features. Press MENU and the MAIN menu will appear.

otes The function displays remain on the TV screen for 5 seconds. The clock (or tape counter, tape remaining) mode will continue to be shown until you press MEMORY/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. 1 Select the 2 then press desired menu with v/V button and MEMORY/ENTER.

ote MAIN MENU Menus remain on-screen for 3 minutes. CLOCK SET (page 18) PROGRAM (page 24) TUNING (page 17) SETUP (page 17) 3 Press MENU when finished. 16 VCR Operation Setup (Continued) VCR Setup Menu Options Channel Selection SYSTEM SETUP 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+Hi-Fi VCR to the desired type of antenna or cable TV system, as shown in Connecting Antenna/Cable TV to DVD+Hi-Fi 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 MEMORY/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+Hi-Fi VCR can be turned on or off. FUNCTION OSD: Choose ON and OFF with b/B. 1 Press MENU and the MAIN menu will appear. v/V to V 2 Use TUNING select the TUNING menu, then press MEMORY/ENTER. The menu will appear. LANGUAGE SELECT The on-screen programming of this DVD+Hi-Fi VCR can be displayed in either English, Spanish, or French. LANGUAGE SELECT: Choose ENGLISH, SPANISH, or FRENCH with b/B. AUDIO MODE The DVD+Hi-Fi 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+Hi-Fi VCR that does not have VHS Hi-Fi. AUDIO MODE: Choose Hi-Fi or NORMAL with b/B. the SOURCE 3 Use V to choose select TUNER.SELECT option, B then use b/B to Press b/B repeatedly to switch among TUNER, LINE1 or LINE2. V/V choose the 4 Use vuse to/B to search AUTO CHANNEL SET option, bB then for channels.

The tuner will automatically cycle through all available channels in the area and place them in the tuner's memory. SET PROCEEDING is 5 After the AUTO CHANNEL TUNING BAND correct complete, make sure the is set appropriately (TV or CATV). Choose the B TUNING BAND (TV or CATV) with b/B while in the TUNING 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.



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When only one of the MTS signal is received, the DVD+ Hi-Fi 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+Hi-Fi 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: Choose STEREO, SAP, or MONO with b/B. 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: Choose STEREO, LEFT, or RIGHT with b/B. 6 Press MENU to return to the TV screen. vV Use (v/V) panel or 7 (v/V)TUNING remote on the front cycle the CH/TRK v V on the control to DVD+Hi-Fi VCR through the channels in memory. TO ADD OR ERASE CHANNELS FROM MEMORY This feature allows you to add or erase channels from memory manually. 1 Use V to choose the CH. ADD/DEL option on the TUNING menu. Use b/B to select a channel to add or erase. Use MEMORY/ENTER to add or erase the channel. Repeat steps 1 and 2 to add or erase channels. Press MENU to remove menu. 4 Press MENU when finished. 2 3 17 VCR Operation Setup (Continued) Setting the Clock The DVD+Hi-Fi VCR gives you two ways to set the time and date: the Auto Clock Feature or manually. The Auto Clock feature enables the DVD+Hi-Fi VCR to set up the clock while the DVD+Hi-Fi 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+Hi-Fi 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+Hi-Fi 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. vV to V 2 Use appear.choose the CLOCK menu. menu Press MEMORY/ENTER and the CLOCK will The Auto Clock feature enables the DVD+Hi-Fi VCR to set up the clock while the DVD+Hi-Fi VCR is turned off. 1 Press MENU and the MAIN menu will appear. vV to V 2 Use appear.choose the CLOCK menu. menu Press MEMORY/ENTER and the CLOCK 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. Press and hold b/B to advance clock continuously. 7 Use E to choose the DAYLIGHT SAVINGS option. Use F or G to choose AUTO, ON, or OFF.

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 automatically. Use 4 option.to choose the DAYLIGHT SAVINGS Use F E or G to choose AUTO, ON, or OFF. 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 automatically. Use 5 Use to choose the TIME ZONE option. or G to choose the correct time zone (AUTO, EASTERN, CENTRAL, MOUNTAIN, PACIFIC, ALASKA or HAWAII). F E 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+Hi-Fi VCR is turned off. 6 Press MENU when finished. off the DVD+Hi-Fi VCR 7 Turnfeature sets the time. and the auto clock set 18 DVD Operation Setup General Explanation This manual gives basic instructions for operating the DVD+Hi-Fi 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+Hi-Fi VCR or is not available on the disc. 1/2 to 2 the setting 3 Use numberchangenumbr).alsoof an option.setting The buttons can be be used for numbers (e.g., title For some functions, Temporary Feedback Field Icons TITLE Repeat Title Repeat Chapter Repeat A-B Repeat Off Resume play from this point Action prohibited or not available CHAPT On-Screen Display General playback status can be displayed on the TV screen. Some menu options can be changed on the menu. AB OFF On-screen display operation 1 Press DISPLAY during playback. 3/4 to 4 menu option.

2 Use selectedselect awill be highlighted. The option 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. Menu Options Title Number 1 /3 4 Function (Use 3/4 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 directly from the elapsed time. 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 1 / 2, or Numbers, ENTER 1 / 2, or Numbers, ENTER Numbers, ENTER 1 / 2, or AUDIO 1 / 2, or SUBTITLE 1 / 2, or ANGLE 1 / 2, or SOUND MODE Chapter Number Time search Audio language and Digital Audio Output mode Subtitle language ABC 1 /12 0:20:09 1 ENG D 5.1 CH OFF 1 /1 BYPASS Angle Sound 19 SYSTEM SETUP press MEMORY/ENTER to execute the setting. DVD Operation Setup (Continued) Initial Settings You can set your own Personal Preferences on the DVD+Hi-Fi VCR.



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Picture TV Aspect Ratio DVD General Operation 1 Press SETUP. The Setup menu appears. Disc Audio Disc Subtitle Disc Menu Rating Country Code TV Aspect Menu Language Progressive Scan 5.1 Speaker Setup Others Original English French German Spanish Italian Chinese Polish Hungarian Other -- -- -- 4:3 Letterbox: Select when a standard 4:3 TV is connected. Displays theatrical images with masking bars above and below the picture. 4:3 Panscan: Select when a conventional TV set is connected. The video material formatted in the Pan & Scan style is played back in that style (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 Progressive Scan 4:3 Letterbox 4:3 Panscan 16:9 Wide 3/4 to select the desired 4 2 Use screen will show theascurrentoption. for the The setting selected option, as well alternate setting(s). desired 3 While3theto selectionoption is selected, press 2, 4 then /4 the desired setting. Press ENTER to confirm your selection. 4 Some options require additional steps. 5 Press SETUP, RETURN, or PLAY to exit the Setup menu. 5.1 Speaker Setup Others Progressive Scan DVD Language Disc Language DVD Progressive Scan Video provides the highest quality pictures with less flickering. If you are using the COMPONENT VIDEO OUT jacks, but are connecting the DVD Player to a standard (analog) television, set Progressive Scan to Off.

If you are using the Component Video jacks for connection to a TV or monitor that is compatible with a progressive scan signal, set Progressive Scan to On. Off On 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 the number keypad to enter the corresponding 4-digit number according to the language code list on page 41. If you enter the wrong language code, press CLEAR.

Disc Audio Disc Subtitle Disc Menu Rating Country Code TV Aspect Menu Language Progressive Scan 5.1 Speaker Setup Others Original English French German Spanish Italian Chinese Polish Hungarian Other -- -- -- -- Disc Audio Disc Subtitle Disc Menu Rating Country Code TV Aspect Menu Language Progressive Scan 5.1 Speaker Setup Others Menu Language Select a language for the Setup menu. This is the menu you see when you press SETUP. Disc Audio Disc Subtitle Disc Menu Rating Country Code TV Aspect Menu Language English Spanish French Caution Once the setting for progressive scan output is entered, an image will only be visible on a progressive scan compatible TV or monitor.

If you set Progressive Scan to On in error, you must reset the unit. Press STOP (x) to stop any disc that is playing. Next, press STOP again and hold it for five seconds before releasing it. The video output will be restored to the standard setting, and a picture will once again be visible on a conventional analog TV or monitor. 20 DVD Operation Setup (Continued) 5.1 Speaker Setup DVD Auto Play DVD Disc Audio Disc Subtitle Disc Menu Rating Country Code TV Aspect Menu Language Progressive Scan 5.1 Speaker Setup Others R R On: Auto Play function is activated. Off: Auto Play function is not activated. Front L Volume Size Distance Test Return 0 dB Small 1 ft ote The Auto Play function may not work for some DVDs. Others The DRC, Vocal, and Auto Play feature settings are adjustable.

4 Use 3/4 to select the desired option and press MEMORY/ENTER repeatedly. @@@@ @@@@Speaker settings are only active on the Analog MultiChannel Output. @@@@ @@@@Ratings are country-dependent. @@ 4 2 While "Rating" is selected, press 2. have not entered a password. @@ then press MEMORY/ENTER. Enter the 4-digit password again and press MEMORY/ENTER to verify. @@ 3 Follow step 3 of "Rating" on left. 4 4 Select the first character using the 3/4 buttons. @@@ @ 2 Enter the old code, then press MEMORY/ENTER.

4 3 Select Change using 3/4 buttons then press MEMORY/ENTER. 4 Enter the new 4-digit code, then press MEMORY/ ENTER. @@@ @ Onehas the mostleast using restrictions. (1) has the playback restrictions. @@The disc will play in full.

Ratings 1 to 8: Some discs contain scenes not suitable for children. @@@ @The alternative must have the same rating or a lower one. If no suitable alternative is found, playback will stop. @@(in the NO DISC mode). 1 Press SETUP to display the Setup menu.

@@@ @If a direct VIDEO connection is made between the DVD+Hi-Fi 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 6. 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 high-speed picture search mode, a short period is needed to stabilize tape speed when re-entering the PLAY mode. Slight interference may be observed during this period. 1 Insert a prerecorded video cassette. The indicator will light and the DVD+Hi-Fi VCR will power-up automatically. Make sure that the 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. B) Search This function lets you quickly and visually search for a desired tape section in either direction: forward or reverse. 1 Press BACKWARD (.) or FORWARD (>) during playback. The DVD+Hi-Fi 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+Hi-Fi VCR will automatically enter the PLAY mode, to protect the tape and video heads. 2 To return to playback, press PLAY (B). Press PLAY (2 PLAY appears on once. screen .

the TV It is not necessary to select the tape speed for playback. It will be automatically selected by the DVD+Hi-Fi VCR. In playback, the TV/VCR selector switches to VCR mode automatically. Press STOP (x) 3 STOP appearsxonto stop playback. the TV screen.

If the tape reaches the end before STOP (x) is pressed, the DVD+Hi-Fi VCR will automatically stop, rewind and eject the tape, and it will turn itself off. Still Picture and Frame-by-Frame Playback 1 Press PAUSE/STEP (X) during playback. Picture movement will stop on one frame. If the still picture vibrates vertically, stabilize it using v/V on the remote control. If the DVD+Hi-Fi VCR is left in the STILL mode for more than 5 minutes, the DVD+Hi-Fi VCR will automatically enter the STOP mode to protect the tape and video heads.

2 Press PAUSE/STEP (X) repeatedly to advance the 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, SLP) changes. Streaks or snow appear because of scratches on the tape. video one frame at a time while viewing a still picture in Still mode.



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3 To return to playback, press PLAY (B). 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 v/V on the Remote Control to minimize noise bands. If slow motion mode continues for more than 3 minutes, the DVD+Hi-Fi VCR will automatically change to playback mode.

2 To return to playback, press PLAY (B). Manual Tracking If noise appears on the screen during playback, press V either CH/TRK v/V on the remote control until the noise on the screen is reduced. If vertical jitter is present, adjust tracking 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. CM Skip (Commercial Skip) ote Only 2-channel stereo (Front Left, Front Right & Subwoofer) is available for VCR mode, thus sound might not be heard from center or rear speakers during VCR playback. (For further details about sound mode, please refer to page 15.) This is useful for skipping commercials or short program segments. 1 Press CM SKIP during playback. The tape will fast forward picture search through 30 seconds of recording. Skipping time can be extended by pressing CM SKIP repeatedly. Subsequent presses result in advancing the fast forward picture search time by 30-second increments (maximum 3 minutes). 2 When the search is complete, the DVD+Hi-Fi VCR will go into playback mode automatically. 23 OPERATION VCR Operation (Continued) Normal Recording Preparation: Turn on the power of both the DVD+Hi-Fi VCR and TV. @@If a direct VIDEO/AUDIO connection is made between the DVD+Hi-Fi VCR and the TV, set the TV's source selector to VIDEO. Timer Recording This DVD+Hi-Fi 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+Hi-Fi VCR and the anti erasure safety tab is in place or the tape will be automatically ejected. video cassette 1 Insert atab intact.

with the anti erasure safety V 2 Select the desired channel with v/V. If you are recording from another source via audio/video input jacks (at the Rear or Front panel), select LINE1 or LINE2 with INPUT. Preparation: Turn on the power of both the DVD+Hi-Fi VCR and the TV. Be sure the TV is set to the DVD+Hi-Fi VCR output channel (3 or 4). Make sure the TUNING BAND in the TUNING menu is set appropriately (TV or CATV). 3 Set the desired recording speed (SP or SLP) with SPEED. This DVD+Hi-Fi VCR is not designed to record in LP mode. 4 Set the MTS mode as desired (See page 17, 27). 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.) go to 3 Press MEMORY/ENTER to appear. the PROGRAM menu. The PROGRAM menu will REC indicator appears only when the Output Source is set to VCR. If a cassette with no anti erasure safety tab is loaded, the cassette will be ejected automatically. 6 x Press STOP (x) twice to stop recording. If the tape reaches the end before STOP (x) is pressed, the DVD+Hi-Fi 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.

Pausing 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 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 while 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 while recording. For example: To change channels while recording, first press PAUSE/STEP (X) to put the unit in pause mode. Select the desired channel on the DVD+Hi-Fi VCR, then 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+Hi-Fi 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+Hi-Fi VCR. 24 VCR 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. 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. otes If the power fails or the DVD+Hi-Fi 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 timer recording is completed, the DVD+Hi-Fi VCR will turn off automatically.

To watch a TV program while timer recording is in progress, select Tuner mode by pressing TV/VCR repeatedly.

If you wish to stop timer recording which has already started, press STOP or POWER twice. Checking (Erasing) Timer Record Programming Programming can be checked whenever the DVD+Hi-Fi VCR is turned on. 1 Press MENU and the MAIN menu will appear. 2 Use v/V to choose the PROGRAM menu.

Press MEMORY/ENTER and the PROGRAM menu will appear. ip 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 by the DVD+Hi-Fi 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.



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