

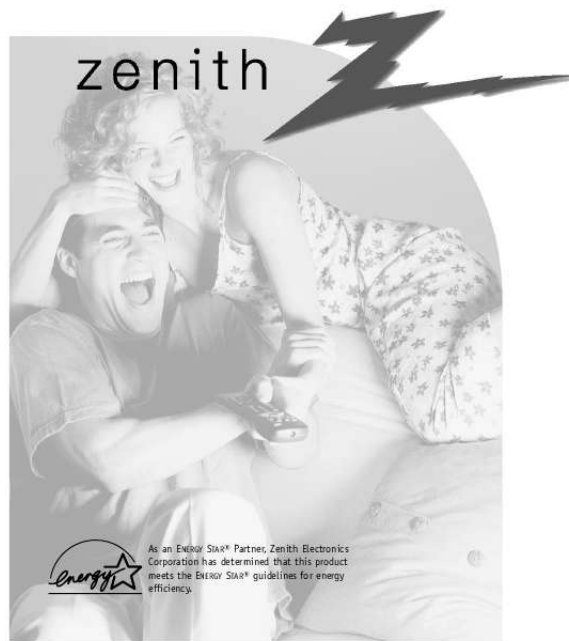


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You can read the recommendations in the user guide, the technical guide or the installation guide for ZENITH VRB420. You'll find the answers to all your questions on the ZENITH VRB420 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ZENITH VRB420
User guide ZENITH VRB420
Operating instructions ZENITH VRB420
Instructions for use ZENITH VRB420
Instruction manual ZENITH VRB420

machine numbers | VRB210 | VRB410 | VRB420



operating guide / warranty



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Manual abstract:

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. @@@@POWER CORD POLARIZATION: CAUTION: To Prevent Electric Shock, match wide blade of plug to wide slot, fully insert. **ATTENTION:** Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond. **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. **REGULATORY INFORMATION:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment 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 equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment 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 equipment and receiver. · Connect the equipment 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. **CAUTION:** Do not attempt to modify this product in any way without written authorization from Zenith Electronics Corporation. Unauthorized modification could void the user's authority to operate this product. This class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. "Ce appareil numérique de la class b respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

"Zenith is a trademark of ZEC © Copyright Zenith Electronics Corporation 1999 SA F E T Y T I P S **IMPORTANT SAFETY INSTRUCTIONS** These simple precautions will help ensure that you get many years of safe enjoyment from your new product. 1. Read Instructions Read all of the safety and operating instructions before operating the product. Retain Instructions Keep all safety and operating instructions for future reference. Heed Warnings Follow warnings on the product and in the operating guide. Follow Instructions Follow all operating and use instructions. Cleaning Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning. Attachments Do not use attachments not recommended by product manufacturer as they may cause hazards.

Water and Moisture Do not use this product near water—for example, near a bathtub, wash bowl, sink, or laundry tub, in a wet basement, or near a swimming pool. **Accessories** Do not place product on an unstable cart, stand, tripod, bracket, or table. Product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product. Any mounting of product should follow manufacturer's instructions and should use a mounting accessory recommended by manufacturer. Transporting Product Move product and cart combinations with care. Quick stops, excessive force, and uneven surfaces may cause product and cart combination to overturn.

PAGE 3 2. 11. Power Sources Operate product only from type of power source indicated on marking label.

If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power or other sources, refer to manual. 12. Line-Cord Polarization Product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other). As a safety feature, this plug will fit into power outlet only one way.

If you're unable to insert plug fully into outlet, try reversing the plug. If plug still fails to fit, contact an electrician to replace your obsolete outlet. Do not defeat safety purpose of polarized plug. 13. Power-Cord Protection Route power-supply cords so they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from product.

14. Outdoor Antenna Grounding If an outside antenna or cable system is connected to this product, be sure antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (USA), ANSI/NFPA 70 provides information on grounding of mast and supporting structure, grounding of lead-in wire to an antenna discharge unit connection to grounding electrodes, and requirements for grounding electrode. (See Fig. 1 below.) 3. 4. 5. 6. 7.

8. 9. Fig. 1 Antenna Lead-in Wire Ground Clamp Antenna Discharge Unit NEC Section 810-20 Electric Service Equipment Grounding Conductors NEC Section 810-21 Ground Clamps Power Service Grounding Electrode System NEC Art 250, Part H 10. Ventilation Slots and openings in cabinet must not be blocked or covered. They are provided for ventilation, to ensure reliable operation, and to protect from overheating. Never block openings by placing product on a bed, sofa, rug, or other similar surface. Do not place product in built-in installation such as a bookcase or rack unless proper ventilation is provided or manufacturer's instructions have been adhered to. NEC: National Electrical Code Antenna grounding per NEC Code, ANSI/NFPA 70 PAGE 4 SA F E T Y T I P S **IMPORTANT SAFETY INSTRUCTIONS** These simple precautions will help ensure that you get many years of safe enjoyment from your new product. 15.

Lightning For added protection for this product during a lightning storm, or when product is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect antenna or cable system. This will prevent damage to product due to lightning and power line surges. 16. Power Lines An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, take extreme care to keep from touching such power lines or circuits, as contact with them might be fatal.

17. Overloading Do not overload wall outlets, extension cords or integral convenience receptacles, as this can result in risk of fire or electric shock.



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18. *Object and Liquid Entry* Never push objects of any kind into this product through openings, as they may touch dangerous voltage points or short-out parts that could result in fire or electric shock. Never spill liquid of any kind on product.

19. *Servicing* Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel. 20. *Wall or Ceiling Mounting* Mount product to wall or ceiling only as recommended by manufacturer. 21. *Replacement Parts* When replacement part(s) are required, be sure service technician has used replacement part(s) specified by manufacturer or have same characteristics as original part(s). Unauthorized substitutions may result in fire, electric shock, or other hazards. 22. *Damage Requiring Service* Unplug this product from the wall outlet and refer servicing to qualified service personnel under these conditions: a.

If power-supply cord or plug is damaged. b. If liquid has been spilled or objects have fallen into product. c. If product has been exposed to rain or water. d. If product doesn't operate normally by following handbook instructions. Adjust only those controls covered by handbook instructions; improper adjustment of other controls may result in damage and often requires extensive work by a qualified technician to restore product to normal operation. e. If product has been dropped or cabinet has been damaged.

f. If product exhibits a distinct change in performance. 23. *Heat* Keep product away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat. 24.

Safety Check Upon completion of any service or repairs to this product, ask service technician to perform safety checks to determine that product is in proper operating condition. **I N S T A L L A T I O N** PAGE 5 Contents/Index CONTENTS SAFETY TIPS. . . .

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..... Things you must do before you can operate your VCR. PROGRAM 1 MONTH : DAY : START : STOP : CHANNEL : SPEED : REPEAT: (1 - 8) to select program ENTER to adjust program CLOCK MENU AUTO DAYLIGHT SAVING: ON 1 ON 2 OFF MANUAL CLOCK SET: 3 SETUP MENU AUTO PROGRAM: CH.

ADD/DEL: SOURCE: ON-SCREEN DISPLAY: LANGUAGE SELECT: 1 2 3 4 5 AUDIO MENU SpeakeZ: ON 1 ON 2 OFF PLAYBACK: HI-FI RECORD: STEREO Press number keys then ENTER QUIT = exit Press number keys QUIT = exit Press number keys QUIT = exit CLOCK TIMER SETUP AUDIO Press NUMBER (1, 2, 3, 4) button SpeakeZ CLOCK TIMER SETUP AUDIO : : : : 1 2 3 4 Note: Audio menu's PLAYBACK and RECORD options are available only with stereo VCRs. Press number keys QUIT = exit MAIN MENU How to Access Menus Menu operation is easy--just follow the instructions shown at the bottom of the menu. 1. Press MENU to see main menu. 2. Press NUMBER (1, 2, 3, or 4) to see desired sub menu to be used. 3. Press NUMBER to choose desired option to be changed. pause Point remote toward VCR power eject sp/ep quit enter ch menu ch memory 4. Press QUIT to exit menu, or wait a few minutes and the VCR returns to normal operation.

rew play fwd stop rec/trk 1 4 7 tv/vcr 2 5 8 0 trk 3 6 9 cm skip Note: Perform menu operations with the VCR and TV on, and tune the TV to channel 3 or 4. The VCR must also be in the VCR mode of operation. Press the TV/VCR button repeatedly until VCR indicator light appears in the front panel. PAGE 10 I N S T A L L A T I O N Before you operate your VCR Things you must do before you can operate your VCR. 1 Connect the Power (Required) Plug your VCR into an unswitched 120 Vac, 60 Hz household power outlet.

Turn on the VCR by pressing the POWER on the remote or on the VCR's front panel. While plugged into an AC outlet, the VCR consumes 3W of electrical power in OFF condition. Do not plug the VCR into a switched power outlet. Otherwise, when the power is switched off, the VCR turns off. You may then have to reset the time and date, and reprogram operational features.

WALL SWITCH POWER OUTLET TYPICAL ZENITH VCR zenith play rew fwd power pause power cst.in vcr rec timer sp/ep ch rec/trk ch stop/eject 2 Set Position of the CH3/CH4 Switch (Required) The CH3/CH4 switch on the VCR's back panel determines which channel the VCR uses to send video signals to your TV. The TV must be tuned to the same channel you set with the CH3/CH4 switch to see tape playback and status displays from the VCR. To determine which video channel provides the best picture for your system, try the switch in CH3 position and tune your TV to channel 3; then try the CH4 position and tune your TV to channel 4. For a test display, press the TV/VCR button on remote repeatedly until the VCR indicator light appears in the VCR's front panel display. Press MENU on the remote to see the main menu. CH3 CH4 Tune TV to Ch.3 OR CH3 CH4 Tune TV to Ch.4 Press 4. SpeakeZ CLOCK TIMER SETUP AUDIO : : : : 1 2 3 4 AUDIO MENU SpeakeZ: ON 1 ON 2 OFF PLAYBACK: HI-FI RECORD: STEREO Press number keys then ENTER QUIT = exit 3 Select SpeakeZ Function (On/Off) A voice tells you how to use the features in the menus if SpeakeZ is ON.

(ON is recommended.). See the AUDIO Menu for details. SpeakeZ only functions with ENGLISH. Press number keys QUIT = exit Press NUMBER (1 or 2) to choose ON or OFF MAIN MENU 4 Select Language for VCR Menus/Displays (Optional) Select English, Spanish, or French for VCR menus and status displays.



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See the LANGUAGE SELECT option on the SETUP menu for details. Press 5. SETUP MENU AUTO PROGRAM: CH. ADD/DEL: SOURCE: ON-SCREEN DISPLAY: LANGUAGE SELECT: 1 2 3 4 5 SETUP MENU LANGUAGE SELECT : ENGLISH 1 ENGLISH 2 ESPAÑOL 3 FRANÇAIS Press number keys then ENTER QUIT = exit Press number keys QUIT = exit SETUP MENU Press NUMBER (1, 2, or 3) to select the desired language I N S T A L L A T I O N PAGE 11 Before you operate your VCR Some things you must do and others you may want to do before you can operate your VCR. 5 Set Date and Time for Clock (Required) Set the clock in the VCR to the current date and time.

See CLOCK Menu on page 16 for details. You must set the clock before you can use any Timer-controlled VCR features, e.g. TIMER recordings. Press 3. CLOCK MENU AUTO DAYLIGHT SAVING: ON 1 ON 2 OFF MANUAL CLOCK SET: 3 MONTH DAY YEAR TIME CLOCK MENU : : : 1 JANUARY 1 FRI 1999 12:00 AM Press number keys then ENTER QUIT = exit Press number keys QUIT = exit Press NUMBER (0-9) then ENTER to set date and time CLOCK MENU 6 Select Source for VCR (Optional) Set the source of the VCR for the type of program signal you have connected to the ANT IN jack on the back of the VCR. Choose TV if you have an antenna connected to the VCR. @@Choose AUX if you have an accessory Audio/Video (A/V) connected to the VCR. See SOURCE option on SETUP menu (page 18) for details. Press 3.

SETUP MENU AUTO PROGRAM: CH. ADD/DEL: SOURCE: ON-SCREEN DISPLAY: LANGUAGE SELECT: 1 2 3 4 5 SETUP MENU SOURCE: TUNER (TV) 1 TV 2 CATV 3 AUX Press number keys then ENTER QUIT = exit Press number keys QUIT = exit SETUP MENU Press NUMBER (1, 2, or 3) to select the desired source 7 Use Auto Program to Find Channels (Required) Use AUTO PROGRAM to find active channels in your broadcast area. AUTO PROGRAM stores the active channels that you can access by using the CH (/). See AUTO PROGRAM on the SETUP Menu (page 18) for details. Press 1. SETUP MENU AUTO PROGRAM: CH. ADD/DEL: SOURCE: ON-SCREEN DISPLAY: LANGUAGE SELECT: 1 2 3 4 5 SETUP MENU AUTO PROGRAM: SEARCHING QUIT = exit Press number keys QUIT = exit SETUP MENU 8 Use CH. ADD/DEL to Create Favorite Channels (Optional) Use CH. ADD/DEL to change the list of active channels found when using AUTO PROGRAM, so you can list your favorites. See CH.

ADD/DEL on the SETUP Menu (page 18) for details. Press 2. SETUP MENU AUTO PROGRAM: CH. ADD/DEL: SOURCE: ON-SCREEN DISPLAY: LANGUAGE SELECT: 1 2 3 4 5 SETUP MENU CH. ADD/DEL: CH. 2 ADD Press number keys then ENTER QUIT = exit Press number keys QUIT = exit Press NUMBER (0-9) then ENTER SETUP MENU PAGE 12 I N S T A L L A T I O N Before you operate your VCR Things you may want to do before you operate your VCR. 9 Select Other Menu Options You may not want to have the clock in your VCR adjusted automatically for Daylight Savings Time. Refer to CLOCK Menu for details. Press 1. SpeakeZ CLOCK TIMER SETUP AUDIO : : : 1 2 3 4 CLOCK MENU AUTO DAYLIGHT SAVING: ON 1 ON 2 OFF MANUAL CLOCK SET: 3 Press number keys QUIT = exit Press number keys QUIT = exit MAIN MENU Press NUMBER (1 or 2) to choose Auto Daylight Saving ON or OFF Press 4.

Show or hide the VCR status on your screen by using the ON-SCREEN DISPLAY option on the SETUP menu. We recommend keeping this option ON. See the SETUP menu for details. SETUP MENU AUTO PROGRAM: CH. ADD/DEL: SOURCE: ON-SCREEN DISPLAY: LANGUAGE SELECT: 1 2 3 4 5 SETUP MENU ON-SCREEN DISPLAY: ON 1 ON 2 OFF Press number keys then ENTER QUIT = exit Press number keys QUIT = exit Press NUMBER (1 or 2) to choose ON or OFF SETUP MENU Press 4.

If you have a stereo VCR, press ENTER to select the audio format (HI-FI or NORMAL) to use when you play a tape. We recommend setting this option to HI-FI. See the PLAYBACK MODE option on the AUDIO Menu for details. SpeakeZ CLOCK TIMER SETUP AUDIO : : : 1 2 3 4 AUDIO MENU SpeakeZ: ON PLAYBACK: HI-FI RECORD: STEREO Press number keys then ENTER QUIT = exit 1 HI-FI 2 NORMAL Press number keys QUIT = exit Press NUMBER (1 or 2) to choose HI-FI or NORMAL MAIN MENU Press 4. If you have a stereo VCR, press ENTER to select the audio format (STEREO, MONO or SAP) to use when recording.

We recommend using STEREO. See the RECORD MODE option on the AUDIO Menu for details. SpeakeZ CLOCK TIMER SETUP AUDIO : : : 1 2 3 4 AUDIO MENU SpeakeZ: ON PLAYBACK: HI-FI RECORD: STEREO 1 STEREO 2 MONO 3 SAP Press number keys then ENTER QUIT = exit Press number keys QUIT = exit MAIN MENU Press NUMBER (1, 2 or 3) to choose STEREO, MONO, or SAP C O N T R O L S A N D D I S P L A Y S PAGE 13 Front Panel Diagram Descriptions of items you need to know to operate your VCR. Front Panel Controls These controls perform basic VCR operations. The Remote performs basic as well as advanced VCR operations. POWER On/Off Button Cassette Compartment Channel Up/Down Selector Stop/Eject Selector zenith play rew f fwd power pause power cst.in vcr rec timer sp/ep ch rec/itr ch stop/eject PLAY, REW (Rewind), F FWD (Fast Forward), PAUSE Selector LED Front Panel Indicators Recording Speed Selector REC/ITR (Instant Timer Record) Selector LED Front Panel Indicators power cst.in vcr rec timer VCR is turned on A Cassette is in the VCR VCR functions are available and channels are selected at VCR Remote Window: Keep this area free of obstruction. VCR is in Timer recording VCR is recording PAGE 14 C O N T R O L S A N D D I S P L A Y S VCR Status Displays On-Screen displays tell you the status of the tape inserted and VCR functions. Current mode of operation (STOP, PAUSE, RECORD, PLAY, etc.

) and audio format of tape, where Play=HI-FI or NORMAL(No display) Tape Speed EP=Extended Play LP=Long Play SP=Standard Play Current date, day, and time PLAY HI-FI VCR CH 11 SP ST/SAP Current CH (Channel) selected by using tuner in VCR Audio format of signal received by VCR tuner: STEREO, MONO or ST/SAP 15 MON 7:17 AM M-1:35:45 Typical VCR Status Display on TV Real-time tape counter M = Counter Memory is active = Tape is rewound past index mark. 1:35:45 = Length of tape (in time) 1 = 1 hour 35 = 35 minutes 45 = 45 seconds M-1:35:45 Tape Counter Position REM 1:35 Tape Time Remaining VCR Status Display The VCR Status Display appears on the TV when a VCR function starts, like when you change a channel or select a different VCR mode. For example, pressing STOP while the VCR is in PLAY mode shows STOP in the display. Press ENTER on the remote at any time (except Special Effects Playback mode; SLOW, STILL etc.) to see the Status Display. Note: If the VCR Status Display does not appear on the TV screen, check the ON-SCREEN DISPLAY option on the SETUP menu. Select ON to see the display. See "Setup Menu" section for details. VCR Status Display Options When the Status Display appears, press ENTER repeatedly to see abbreviated displays, as follows: 1.



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Press ENTER to see Status Display.

2. Press ENTER a second time to show only the tape counter position. 3. Press ENTER a third time to show only the tape time remaining. 4. Press ENTER repeatedly until all displays are removed. OPERATIONS PAGE 15 The Buttons on Your Remote A quick list of all the buttons on your remote control and what they do. CH (/) -- Channel Selectors. Also selects AUX A/V input channel. CM SKIP -- Fast forwards picture search through 30 seconds of recording.

EJECT -- Ejects the tape from the VCR. ENTER -- Programs menu options and shows VCR display. F FWD (Fast Forward)--Advances tape rapidly.

MEMORY -- Returns real-time tape counter to zero (M 0:00:00). MENU -- Shows main menu. Numbers -- Chooses channels and enters programming information. PAUSE -- Pauses tape temporarily during playback or record. PLAY -- Begins tape playback. POWER -- Turns VCR On and Off. Also turns VCR Timer Off and On, if programmed.

QUIT -- Exits menu system. REC/ITR -- Begins tape recording. REW -- Rewinds tape to the beginning. SP/EP -- Chooses tape recording speed. STOP -- Cancels playback or record modes. TRK (/) -- Adjusts tape playback tracking. TV/VCR -- Switches source of TV picture between TV channel and VCR channel selection. VCR functions are available in VCR mode. Be sure to install the batteries provided with this remote. Match positive (+) and negative (-) with markings shown in battery compartment.

AA AA Turns VCR On/Off power eject Ejects a tape Shows main menu Exits Any Menu Chooses Tape Recording Speed Enters a Menu rew sp/ep quit enter ch ch menu memory pause Accesses Tape Counter Display f fwd play Tape Play/Record Options Direct Channel and Programming Entry Switches TV Picture between TV and VCR Channel Selectors (Tuner) stop rec/itr Channel Selectors 3 6 9 cm skip 1 4 7 tv/vcr 2 5 8 0 trk Fast forwards picture search through 30 seconds of recording Adjusts tape playback tracking. Installing Batteries Note: All VCR operations and menu options can be accessed by using the remote control. PAGE 16 OPERATIONS Clock Menu The Clock Menu sets the clock in VCR to the current time. How to Access Auto Daylight Savings Time This VCR can adjust the clock automatically for Daylight Savings Time. CLOCK MENU 1.

Press MENU to see Main Menu. 2. Press 1 to see Clock Menu. 3. Press 1 to choose ON on the Clock Menu.

Note: We recommend that you set the clock using the MANUAL method the first time you use your VCR. See MANUAL option for details. AUTO DAYLIGHT SAVING: ON 1 ON 2 OFF MANUAL CLOCK SET: 3 Press number keys QUIT = exit Manual Clock Set The CLOCK Menu allows you to set the clock in the VCR to the current date and time. Notes: The clock must be set before you can record, using the TIMER menu. You may have to reset the clock and other features if a power outage lasts for more than 3 seconds. MONTH DAY YEAR TIME CLOCK MENU : : : 1 JANUARY 1 FRI 1999 12:00 AM Press number keys then ENTER QUIT = exit How to Set Clock 1. Press MENU to see Main Menu. 2. Press 1 to see clock options. 3.

Press 3 to adjust your options. 4. First insert the month number (5=MAY, 6=JUNE etc). 5. Press ENTER to move to next option. 6. Press QUIT to exit the menu system. Typical CLOCK Menu with date and time settings OPERATIONS PAGE 17 Timer Menu The TIMER Menu tells the VCR when to record a program on a day and at a time you specify. You can specify eight different events to be recorded in a one-year period. PROGRAM 1 MONTH : DAY : START : STOP : CHANNEL : SPEED : REPEAT: (1 - 8) to select program ENTER to adjust program PROGRAM 8 MONTH : DAY : START : STOP : CHANNEL : SPEED : REPEAT: (1 - 8) to select program ENTER to adjust program SpeakeZ CLOCK TIMER SETUP AUDIO : : : 1 2 3 4 Press 2 Press number keys QUIT = exit Month of Recording Day of Recording Start Time of Recording Stop Time of Recording Channel of Recording Speed of Recording Frequency of Recording PROGRAM 1 MONTH : 7 JULY DAY : 20 TUE START : 11:16 AM STOP : 11:46 AM CHANNEL : 20 TV SPEED : EP REPEAT: ONCE (1 - 8) to select program To erase press (0) Program Number When highlighted, press NUMBER (1-8) to choose program Number.

REPEAT OPTIONS ONCE -- Records once. WEEKLY -- Records once each week. DAILY -- Records one time each day, Monday - Friday. Press QUIT CHANNEL OPTIONS To select an AUX channel, select the next highest or lowest channel programmed in the VCR with the CH (/). Timer will be on when VCR is off SPEED OPTIONS (SP or EP) The SP mode determines how much tape is left and switches speed from SP to EP, if necessary, to complete recording the program.

There will be some picture and sound distortion at the point of the speed change. AM/PM OPTIONS Press 1 for AM Press 2 for PM How to Use Timer 1. Choose TIMER menu as described in "How to Access Menus" on page 9. 2. When the TIMER menu is displayed on screen, press the ENTER button to select the correct month, then press the ENTER button again to move the next option or setting.

3. When you have entered all of the settings to your satisfaction, press QUIT to exit the menu system. Note: Set the VCR in TIMER mode by pressing POWER to turn off the VCR. The TIMER indicator light appears in the front panel of the VCR. You cannot operate the VCR manually while it is recording. Pressing POWER stops the recording. To Erase a Program 1. Choose TIMER menu as described in "How to Access Menus" on page 9. 2. Press NUMBER(1-8) to select desired PROGRAM to be erased.

3. Press 0 to erase the program. 4. @@@@ Press 1 to begin search. Edits the channels found by AUTO PROGRAM. @@@@ Choose TV if you have an antenna connected to the VCR. @@@@ Selects whether or not you see VCR Status Displays on the TV. @@@@ (ON is recommended.)

Selects HI-FI or NORMAL for tape playback. @@@@ Select the STEREO, MONO, or SAP for recording a program.

@@@@ Turn TV on. 2. Select channel you'd like to watch at the TV. If you have a cable box, select channel 3 or 4 at the TV. @ Turn TV and VCR on.

2. @@3. Select channels 3 or 4 at the TV. @@4. Select the channel you'd like to watch at the VCR.

If you have a cable box, select channel 3 or 4 at the VCR. Select cable box channels at the cable box. Selecting Channels at the TV when VCR is ON 1. Turn TV and VCR on. 2. Place VCR in TV mode by pressing the TV/VCR button on the remote control repeatedly until the VCR indicator disappears from the front panel of the VCR. 3. Select channel you'd like to watch at the TV. If you have a cable box, select channel 3 or 4 at the TV. Select cable box channels at the cable box.

OPERATIONS PAGE 21 Camcorder Connected to VCR This page describes how to connect a camcorder to your VCR. Back Panel of Stereo VCR ANT IN VHF/UHF/CATV OUT TO TV R-AUDIO-L OUT CH3 CH4 VIDEO OUT IN IN Turn off power or unplug VCR before making any connections. A/V cable is not provided with VCR. Select AUX for Viewing an Audio/Video source like a Camcorder 1.



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With TV and VCR on, place VCR in VCR mode by pressing the TV/VCR button on the remote (and repeat) until the VCR indicator light appears in the VCR's front panel. 2. Select channel 3 (or 4) on the TV. Note: If your TV has A/V jacks, you may get a better picture if you connect your VCR there. (Then, select the A/V source on the TV.) 3.

At the VCR, Channel down lower than the lowest channel (or Channel up above the highest) to select "AUX". You can also choose the SETUP menu as described in "How to Access Menus" on page 9. Press 3 for the SETUP menu's SOURCE item. Press 3 for AUX, then ENTER. (Press QUIT to exit.) SETUP MENU SOURCE: TUNER (TV) 1 TV 2 CATV 3 AUX Press number keys then ENTER QUIT = exit Press 3 to select AUX Items in the Menu SOURCE TUNER TV CATV AUX Shows the program source--TV, CATV, or AUX--selected for the VCR to receive. The VCR is using its Tuner to receive programs from an antenna or cable. Selects programs for the VCR from a rooftop-type antenna. Selects programs for the VCR from Cable TV. Selects programs for the VCR from the R-AUDIO-L--VIDEO IN jacks (where you may have connected your camcorder).

PAGE 22 O P E R A T I O N Playing Tapes This page explains the basics of playing tapes in your VCR. Automatic Playback (No Safety Tab) 1. Tape playback begins automatically, if the safety tab has been removed from the cassette case. For example, most rental movies have no safety tab. Simply insert the prerecorded VHS cassette into the VCR. Power will turn on automatically and playback will begin. 2. Select the channel 3 or 4 at the TV or select the TV's AUX (Auxiliary) source to see the picture, if you are using the A/V jacks. Refer to page 7 and 8. power play stop/eject VCR's Controls Manual Playback (Has Safety Tab) 1.

Press POWER to turn VCR on. 2. Insert a prerecorded VHS cassette into the VCR. 3. Press PLAY to begin playback. Cassette Safety Tab Shown in Place power eject 4. Select the channel 3 or 4 at the TV or select the TV's AUX (Auxiliary) source to see the picture, if you are using the A/V jacks. Refer to your TV operating manual. POWER sp/ep quit enter ch ch menu memory pause Unloading the Cassette from the VCR 1. Press STOP if the tape is playing.

2. Press STOP/EJECT at the VCR until the cassette is ejected. rew play fwd PLAY rec/itr stop STOP 1 4 7 tv/vcr 2 5 8 0 3 6 9 cm skip TV/VCR Note: This VCR records only in SP and EP speeds. Your VCR sets the playback speed automatically to the speed used to record the tape. (Continued on next page) trk VHS Cassette Playback/Record Times Cassette SP LP EP Length (Standard Play) (Long Play) (Extended Play) T-30 T-60 T-120 T-160 30 Minutes 1 Hour 2 Hours 2 Hours, 40 Minutes 1 Hour 2 Hours 4 Hours 5 Hours, 20 Minutes 1 Hour, 30 Minutes 3 Hours 6 Hours 8 Hours O P E R A T I O N PAGE 23 Playing Tapes This page explains how to use the remote to play tapes on your VCR.

Auto/Manual Tracking Adjustment Your VCR adjusts tracking automatically when you play a tape. If the tape was recorded on a different VCR, streaks (video noise) may appear. While the tape is playing, press TRK (/) to adjust the tracking manually. power eject POWER ENTER PAUSE rew sp/ep quit enter ch ch menu memory Real-Time Tape Counter Press ENTER twice to keep the tape counter on the TV screen. Press ENTER repeatedly to remove all displays.

The counter resets to 0:00:00 when you insert a cassette or when a tape is rewound to its beginning. F FWD (Fast Forward) STOP pause play fwd Pause/Forward/Reverse Slow-Motion Video (While in play mode) Press PAUSE for still video. Press PAUSE again, and follow on-screen instructions for Forward or Reverse slow motion. Press F FWD or REW to control slow speed during slow motion. Press PLAY to resume normal tape playing. Note: When the reverse slow mode continues for more than 30 seconds, the VCR will automatically change to play mode. REW (Rewind) PLAY rec/itr stop 1 4 7 tv/vcr 2 5 8 0 trk 3 6 9 cm skip CM SKIP Tape Rewind and Fast Forward (While in Stop mode) Press and release REW or F FWD (Fast Forward), as desired. Press STOP when tape reaches desired location. TRK(Tracking) (/) Reverse/Forward Search (While in Play mode) Press and release REW or F FWD, as desired. Press PLAY to resume normal tape playing.

CM Skip (Commercial Skip) (While in play mode) Pressing CM SKIP on the remote skips commercials or other program material. Pressing 1, 2, 3, or 4 times skips 30, 60, 90, or 120 seconds, respectively. CM SKIP skips a full 120 seconds of commercials in a few seconds, then resumes normal playback. PAGE 24 O P E R A T I O N Instant Recording Recording what you are watching on TV. Options You Can Use While Recording Instant recording lets you record until you reach the end of tape or you press STOP to stop recording. power sp/ep tv/vcr stop rec/itr 1 2 3 Turn TV and VCR on. Remote's Controls Place VCR in VCR mode by pressing the TV/VCR button on the remote repeatedly until the VCR indicator light appears in the VCR front panel. power sp/ep rec/itr stop/eject Select channel 3 or 4 at the TV. If you have connected your VCR to the TV's A/V input jacks, select the A/V source at the TV for a better picture. Select the channel to be watched and recorded at the VCR.

If you have a cable box, select the cable box output channel (usually 3 or 4) at the VCR. Select cable box channels at the cable box. Insert a VHS cassette tape into the VCR. Press SP/EP to select recording speed, if desired. Recording speed is always SP, unless you select EP.

Press REC/ITR until recording begins. REC indicator light appears in the VCR front panel. Recording continues until you reach the end of the tape, or until you press STOP to stop recording. VCR's Controls 4 Instant Recording (until end of tape) PAUSE Momentarily pauses recording. Press PAUSE again to resume recording.

STOP or STOP/EJECT Stops and exits recording mode. Instant Timer Recording (Preset recording times) STOP or STOP/EJECT Stops and exits recording mode. 5 6 7 O P E R A T I O N PAGE 25 Instant Recording Recording using preset time periods. Preset Time Periods for ITR Recording. Note: Preset recording time counts down until the recording time is over. Instant (attended) Timer Recording (ITR) lets you record for a specific preset time period, instead of recording until the end of tape is reached. For example, you can record a 30-minute show using the preset time period. power sp/ep tv/vcr stop rec/itr Remote's Controls 1 2 3 Turn TV and VCR on. Place VCR in VCR mode by pressing the TV/VCR button on the remote repeatedly until the VCR indicator light appears in the VCR front panel. Select channel 3 or 4 at the TV.

If you have connected your VCR to the TV's A/V input jacks, select the A/V source at the TV for a better picture.



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Select the channel to be watched and recorded at the VCR. If you have a cable box, select the cable box output channel (usually 3 or 4) at the VCR. Select cable box channels at the cable box. Insert a VHS cassette tape into the VCR. Press SP/EP to select recording speed, if desired. Recording speed is always SP, unless you select EP. Note: The SP mode determines how much tape is left and switches speed from SP to EP, if necessary, to complete recording the program. There will be some picture and sound distortion at the point of the speed change. power sp/ep rec/itr stop/eject VCR's Controls 4 Preses of REC/ITR 1 (Press) 2 3 4 5 .

. . 9 10 Display Current Time 0:30 1:00 1:30 2:00 . . .

4:00 No display 5 6 Preset Time For Recording Until end of tape 30 minutes 1 hours 1 hour and 30 minutes 2 hours . . . 4 hours normal recording 7 Press REC/ITR until recording begins. The REC indicator light appears in the VCR front panel.

Recording continues until you reach the end of the tape, or until you press STOP to stop recording. Press REC/ITR repeatedly to select a preset recording time period. Each subsequent press of REC/ITR increases the recording time by 30 minutes until you reach a maximum of 4 hours. 8 PAGE 26 O P E R A T I O N Instant Recording Recording one show while watching another. Note: If you have a cable box connected to your VCR, you cannot record one show and watch another. Choose the show you wish to record using the VCR's channel selector. Choose the show you wish to watch using the TV's channel selector. power sp/ep tv/vcr stop rec/itr Remote's Controls 1 2 3 Turn TV and VCR on. power sp/ep rec/itr stop/eject Place VCR in VCR mode by pressing the TV/VCR button on the remote repeatedly until the VCR indicator light appears in the VCR front panel. Select channel 3 or 4 at the TV.

If you have connected your VCR to the TV's A/V input jacks, select the A/V source at the TV for a better picture. Select the channel to be watched and recorded at the VCR. If you have a cable box, select the cable box output channel (usually 3 or 4) at the VCR. Select cable box channels at the cable box.

Insert a VHS cassette tape into the VCR. Press SP/EP to select recording speed, if desired. Recording speed is always SP, unless you select EP. Press REC/ITR until recording begins. REC indicator light appears in the VCR front panel. Recording continues until you reach the end of the tape, or until you press STOP to stop recording.

Place VCR in TV mode by pressing the TV/VCR button on remote to turn off VCR indicator light in the VCR front panel. Select the show you wish to watch using the TV's channel selector. VCR's Controls 4 Options You Can Use While Recording Instant Recording (until end of tape) PAUSE Momentarily pauses recording. Press PAUSE again to resume recording. STOP or STOP/EJECT Stops and exits recording mode.

5 6 7 8 9 Note: To return to the show you're recording, select channel 3 or 4 at the TV. Place the VCR in the VCR mode by pressing the TV/VCR button on the remote to show the VCR indicator light in the VCR's front panel. O P E R A T I O N PAGE 27 Recording While You're Away This page explains how to use the Timer so that you can record while you are away. SpeakeZ CLOCK TIMER SETUP AUDIO : : : 1 2 3 4 PROGRAM 1 MONTH : DAY : START : STOP : CHANNEL : SPEED : REPEAT: (1 - 8) to select program ENTER to adjust program PROGRAM 8 MONTH : DAY : START : STOP : CHANNEL : SPEED : REPEAT: (1 - 8) to select program ENTER to adjust program Press 2 Press number keys QUIT = exit MAIN MENU TIMER MENU for Program 1 TIMER MENU for Program 8 Timer-controlled recording lets you record shows unattended. Pick a day and time up to one year in advance.

The show may be recorded once or on multiple days. You can schedule up to eight different events into the PROGRAM TIMER for recording, as long as no events overlap in the same time period. VCR Operation with Timer Off or On VCR POWER On TIMER STATUS Off VCR OPERATION Disables Timer-controlled recording if an event is scheduled in the Timer. All other VCR operations can be used as desired. 1 2 3 4 5 Turn TV and VCR on. Place VCR in VCR mode by pressing the TV/VCR button on the remote repeatedly until the VCR indicator light appears in the VCR front panel. Select channel 3 or 4 at the TV. Insert a VHS cassette tape into the VCR. Program events to be recorded with the Timer by following the procedure in the TIMER MENU section. If you have a cable box, select channel 3 or 4 (ar the VCR) as the channel to be recorded.

Keep your cable box on when using the Timer to record. Enable the Timer by pressing POWER to turn off the VCR. The TIMER indicator light appears in the VCR front panel to indicate the VCR is in the TIMER recording mode. Off On (or set) Enables Timer-controlled recording if an event is scheduled in the Timer. You cannot operate the VCR manually while it is in Timer Set mode. If you have scheduled the Timer, you'll be recording at a later time. 6 PAGE 28 T R O U B L E S H O T I N G Troubleshooting Some quick and easy tips to fixing problems yourself. Before Calling for Service Please refer to this chart before calling for service. First, turn on the TV and VCR. Select appropriate input for the TV to receive the video signal from the VCR.

You will probably use the Antenna In connection to the TV. Select channel 3 or 4 at the TV. Place the VCR in the VCR mode by pressing the TV/VCR button on the remote repeatedly until VCR indicator light appears in the VCR front panel. If you have a cable box, turn it on and select channel 3 or 4 at the VCR. Operating Problems Observed Condition No power to the VCR.

Remote does not function. Possible Cause Power cord is not connected. Batteries are weak. You are too far away from the VCR. Remote may be at an awkward angle.

No picture appears on TV screen from any VCR function. Source for TV is not selected properly. Probable Solution Connect power cord. Replace with new batteries. Move closer to the VCR. Avoid holding the remote at sharp angle. Set INPUT source on TV to Audio/Video In, or tune TV to Channel 3 or 4, as appropriate. Press the TV/VCR button on remote repeatedly to choose VCR mode. VCR indicator light appears in VCR front panel. Disconnect VCR power cord for three (3) minutes.

Reset clock and other features as necessary. TV/VCR mode for VCR is set to TV. VCR features do not function. VCR does not respond to remote functions or VCR keys. VCR is locked up. Playing Tapes (Playback) Problems Observed Condition Tape will not rewind or fast forward. Mechanical sound is audible during playback. Tape playback does not appear on TV screen. Possible Cause Tape is fully rewound or is at its end. Note: This is normal operating sound from internal mechanisms.

Source for TV is not selected properly. Probable Solution No action necessary. No action necessary. Set Input source on TV to Audio/Video In, or tune TV to Channel 3 or 4, as appropriate.



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Press the TV/VCR button repeatedly to choose VCR mode.

VCR indicator light appears in VCR front panel. Use TRK (/) for manual tracking adjustment while tape is playing. Clean video heads. From STILL video mode, enable slow-motion playback. Use TRK (/) to adjust tracking for best picture.

Return to PLAY mode, then press PAUSE for STILL video. TV/VCR mode for VCR is set to TV. Video "noise" (horizontal streaks) appear during normal tape playing. VCR Status Display flickers when using STILL video during tape playback. Tape is a rental or was recorded on another VCR. Tape heads are dirty. Tape tracking needs to be adjusted while in slow-motion playback. T R O U B L E S H O T I N G PAGE 29 Troubleshooting Some quick and easy tips to fixing problems yourself. Channel Tuning Problems Observed Condition Some channels are skipped over when using CH (/). Picture and sound are weak or missing.

Possible Cause Those channels were deleted with the CH. ADD/DEL option. Antenna or cables are loose. Wrong SOURCE option is being used. Probable Solution Use CH. ADD/DEL to restore channels. See SETUP Menu on page 18 for details. Tighten connections or replace cable. Try all SOURCE options.

See SETUP menu on page 18 for details.

Recording Problems Observed Condition Camcorder image is not shown. Camcorder image via A/V input to VCR is not shown on TV screen. Timer recording is not possible. Possible Cause Camcorder is off. VCR SOURCE is not set to AUX.

Clock in VCR is not set to correct time. VCR is on which disables timer. Probable Solution Turn camcorder on and operate properly. Use CH (/) to select AUX A/V input channel. Set clock to correct time.

See CLOCK menu on page 16. Turn VCR off to enable timer. TIMER indicator light appears in the VCR front panel. Reprogram Timer. See TIMER menu on page 17. Reprogram Timer and turn VCR off to enable timer. This is the normal indication that the VCR is in TIMER mode. Timer has been programmed incorrectly. TIMER indicator light does not appear after programming timer. TIMER indicator light appears after VCR is turned off.

VCR is in Timer Recording mode. Stereo Audio Record and/or Playback Problems Observed Condition Stereo is not present. Possible Cause TV is not Stereo-compatible. Program is not in stereo format. VCR A/V Out jacks are not connected to TV A/V In jacks. VCR Audio/Video Out is not selected for viewing at the TV. VCR AUDIO RECORD mode is set to SAP or MONAURAL. Probable Solution No action is possible. No action is possible. Make A/V connections.

Stereo is available only via A/V output from VCR. Select AUX or A/V source as TV input. Set VCR AUDIO RECORD mode to Stereo. See AUDIO Menu on page 19. PAGE 30 T R O U B L E S H O T I N G Troubleshooting Some quick and easy tips to fixing problems yourself.

Moisture Condensation Moisture condensation can occur: · When the video recorder is moved from a cold place to a warm place. · Under extremely humid conditions. In locations where moisture condensation may occur: · Keep the power cord plugged into an AC outlet and POWER On. This will help prevent condensation. · When condensation has occurred, wait a few hours for the VCR to dry before using it.

Magnetic Field from Other Equipment Keep the VCR and videotapes away from strong magnetic fields, such as those produced by a vacuum cleaner, refrigerator, or air conditioner. Video Head Cleaning Your VCR automatically cleans the heads as it is used. However, after long periods of use, your video heads may become clogged with accumulated dirt, causing distortion. When this occurs, use a do-it-yourself wet-type head cleaning cassette available from your Zenith dealer. Caution: Do not use a dry-type head-cleaning system. It may seriously damage the VCR and cassettes used in the VCR. Snow, streaking in picture, and horizontal pulling indicate the need for professional video head cleaning. See your Zenith approved service center for cleaning. Cabinet Cleaning Clean the outside surfaces of the VCR with a soft lint-free cloth as required. Use care not to scratch the VCR during cleaning.

S P E C I F I C A T I O N S PAGE 31 Specifications GENERAL Head System Power Source Power Consumption Dimensions Operating Temperature Operating Humidity Timer Weight Tape Speed Two head (VRB210), Four head (VRB410, VRB420) AC 120V, 60Hz Approx. 17 Watts (VRB420), 15 Watts (VRB410, VRB210) 360 x 94 x 270mm (14.2" x 3.7" x 10.6") 5 °C-35 °C (41 °F-95 °F) Less than 80% RH 12-hour display type with AM, PM Approx. 3.4 kg (7.5 lbs) 33.35 mm/sec 16.67 mm/sec 11.

12 mm/sec 12.7 mm 2 HOURS (T-120) 6 HOURS (T-120) 8 HOURS (T-160) Less than 210 seconds (T-120) (WxHxD) (SP) (LP) (EP) (SP) (EP) Tape Width Maximum Recording Time Rewind Time TUNER Antenna VHF Output Signal Channel Coverage (UHF) (VHF) (VHF) (UHF) (CATV) 75 ohms 75 ohms Channel 3 or 4 2-13 14-69 1-125 (4A, A-W, W+1~W+84, A-5~A-1) VIDEO Video Signal System Input Output Signal to Noise Ratio EIA Standard (525 lines, 60 fields) NTSC type color signal 1.0 Vp-p 75 ohms unbalanced 1.0 Vp-p 75 ohms unbalanced More than 43 dB (SP mode) AUDIO FM audio (VRB420 only) Frequency Range Dynamic Range Channel Separation Conventional audio Input Output S/N Ratio Frequency Range Supplied Accessory 20Hz to 20kHz More than 83 dB More than 55 dB (LINE) (LINE) -6.0 dBm more than 47 kohms -6.

0 dBm less than 1.5 kohms More than 43 dB (SP mode) 200 Hz to 10kHz (SP mode) Hook-up Cable (VCR to TV) (1) Batteries (2) Remote Control (1) * Designs and specifications are subject to change without notice. * Weight and dimensions shown are approximate. Recommended VCR Accessories VHS TAPE REWINDER Most repair work on VCRs and Camcorders is due to excessive rewinding. @@Baby in another room as you watch TV? Keep tabs on them with our inexpensive intercom set.

@@Need a second remote or more functions? Order direct from Zenith!! @@@@CALL OR FAX TOLL-FREE 1.800.255.6790 Fax 1.888.693.6484 email: parts.sales@zenith.com Use Your Visa or MasterCard to Order PLEASE ALLOW 3 - 4 WEEKS FOR DELIVERY N O T E S PAGE 33 Notes PAGE 34 N O T E S Notes N O T E S PAGE 35 Notes Your Zenith Limited Warranty VIDEO CASSETTE RECORDER OR PLAYER Welcome into the Zenith family! We believe that you will be pleased with your new Zenith Entertainment Machine. Please read this warranty carefully, it is a "LIMITED WARRANTY" as defined under Federal Law.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state within the U.S.A. ZENITH'S RESPONSIBILITY Service Labor During a period of 90 days from effective warranty date, Zenith will provide service labor by a Zenith authorized service center when needed as determined by Zenith, as a result of manufacturing defects. New or remanufactured replacements for factory-defective parts will be supplied by a Zenith authorized service center for one year from effective warranty date .



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Such replacement parts are warranted for the remaining portion of the original warranty period. This warranty covers manufacturing defects and does not cover installation, adjustment of customer controls in the home, installation or repair of home antenna systems, cable converters or cable company-supplied equipment; it also does not cover damage due to misuse, abuse, negligence, acts of God or other causes beyond the control of Zenith. Any alteration of the product after manufacture voids this warranty in its entirety. Parts Not Covered OWNER'S RESPONSIBILITY Effective Warranty Date Warranty begins on the date of original consumer purchase. For your convenience, keep the dealer's dated bill of sale or a delivery ticket as evidence of the purchase date. Read your Operating Guide carefully so that you will understand the operation of your set and how to adjust the customer controls. The video product must be taken to a U.S. or Canadian Zenith authorized service center for warranty service and must be picked up by the owner. It is the owner's responsibility to maintain the TV receiver with which the video product is used, and the associated antenna system, in proper operating condition.

. Product Registration--Please fill out and mail your Product Registration Card. It is imperative that Zenith know how to reach you promptly if we should discover a safety problem that could affect you. For warranty service information, contact any Zenith authorized service center. Parts and service labor that are Zenith's responsibility (see above) will be provided without charge.

Other service is at the owner's expense. If you have any problem in obtaining satisfactory warranty service, call or write the Zenith Response Center. You must provide the model number, serial number and date of purchase or date of original installation. Before you ask for warranty service, read "Maintenance And Troubleshooting" in your operating guide. You might avoid a service call. Operating Guide Carry-In Service TV Set Performance Important Warranty Service THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ZENITH SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, OR INCIDENTAL DAMAGES OF ANY KIND, INCLUDING LOST REVENUES OR PROFITS IN CONNECTION WITH THE PRODUCT.

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