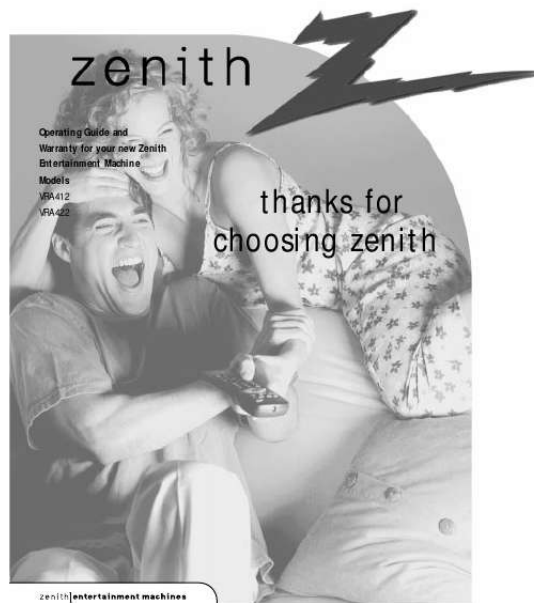




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You can read the recommendations in the user guide, the technical guide or the installation guide for ZENITH VRA412. You'll find the answers to all your questions on the ZENITH VRA412 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ZENITH VRA412
User guide ZENITH VRA412
Operating instructions ZENITH VRA412
Instructions for use ZENITH VRA412
Instruction manual ZENITH VRA412



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Manual abstract:

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. @@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 appliance. WARNING: TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. 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." I N S T A L L A T I O N PAGE 3 VCR Features Chart FEATURES SpeakEZ

Function 4-Heads (Special Video Effects) Full Load/Quick Start Auto Head Cleaner Audio System Audio/Video (A/V) Jacks Remote Control MBR412 Auto/Manual Band Select Auto/Manual Channel Search Channel Capability (CATV & TV) Record Speeds SP/EP Playback Speeds SP/LP/EP Auto Playback System Auto/Manual Digital Tracking Instant Recording Timer-Controlled Recording Auto Playback Tape Speed Adjust Forward/Reverse Slow-Motion Video (4-head VCR) Pause/Still Video Real-Time Tape Counter Speed Search CM Skip English/Spanish/French Menus 1-Year, 8-Event Timer LED Clock Front Panel Display Auto Clock Set System Hook-up Cable (VCR to TV) VRA412 X X X X Monaural Monaural X X X 181 X X X X X X X Variable 1/10 to 1/32 X X X X X X X X VRA422 X X X X MTS Hi-Fi Stereo Stereo X X X 181 X X X X X X X X Variable 1/10 to 1/32 X X X X X X X X This page shows the features of your VCR and the differences between the models 1. Model VRA422 is used for the description, operation, and details provided in this operating guide. 2. VCR design and specifications are subject to change without prior notice. X = Feature is provided N/A = Feature is Not Available PAGE 4 I N S T A L L A T I O N Required connections for your VCR Connections for your VCR Connections Without a Cable Box Antenna Flat Wire (300 ohm) Back Panel of Stereo VCR ANT IN VHF/UHF/CATV OUT TO TV OR OR 300/75 ohm Adaptor (Not provided) R-AUDIO-L OUT CH3 CH4 VIDEO OUT IN IN Cable TV Wall Jack Back Panel of Typical TV IN OUT IN VHF/UHF/CATV OUT R AUDIO L VIDEO ANT IN This cable is provided with your VCR. Turn off power or unplug VCR before making any connections. Connections With a Cable Box Back Panel of Stereo VCR ANT IN VHF/UHF/CATV OUT TO TV Back Panel of Typical TV IN OUT IN VHF/UHF/CATV OUT R-AUDIO-L OUT CH3 CH4 VIDEO OUT R AUDIO L VIDEO ANT IN IN IN Back Panel of Typical Cable Box CH3 CH4 Cable TV Wall Jack CABLE OUT IN This cable is provided with your VCR. Turn off power or unplug VCR before making any connections.

I N S T A L L A T I O N PAGE 5 Connections for your VCR Audio/Video (A/V) Connections to TV Use A/V connections for a better picture. Optional connections for your VCR Back Panel of Stereo VCR ANT IN VHF/UHF/CATV OUT TO TV Back Panel of Typical TV OUT IN R-AUDIO-L OUT IN VIDEO VHF/UHF/CATV R-AUDIO-L OUT CH3 CH4 VIDEO OUT ANT IN IN IN Turn off power or unplug VCR before making any connections. A/V cable is not provided with VCR. Back Panel of Monaural VCR ANT IN VHF/UHF/CATV OUT TO TV Back Panel of Typical Monaural TV AUDIO VIDEO OUT IN VHF/UHF/CATV AUDIO OUT CH3 CH4 VIDEO ANT IN IN Note: If the back panel on your TV is different, refer to the TV's operating guide. A/V cable is not provided with VCR. Accessory Audio/Video (A/V) Connections to VCR Back Panel of Stereo VCR ANT IN VHF/UHF/CATV OUT TO TV Jack panel of Accessory Accessory Component: Another VCR, Camcorder, Video Camera, Satellite Receiver, Laser Disc Player OUT IN R-AUDIO-L OUT IN VIDEO 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. PAGE 6 I N S T A L L A T I O N Things you must do before you can operate your VCR Before you operate your VCR CLOCK MENU AUTO CLOCK SET(ON): 1 MANUAL CLOCK SET : 2 PROGRAM 1 MONTH : DAY : START : STOP : CHANNEL : SPEED : REPEAT : (1 - 8) to select program ENTER to adjust program 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: RECORD: 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 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.



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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. TYPICAL ZENITH VCR WALL SWITCH POWER OUTLET 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 TV/VCR on remote repeatedly until the VCR indicator appears in the VCR's front panel display. Press MENU on the remote to see the main menu. power stop/eject rew play f fwd pause sp/ep ch rec/itr AM VCR REC PM TMR CH3 CH4 Tune TV to Ch.

3 OR CH3 CH4 Tune TV to Ch.4 I N S T A L L A T I O N PAGE 7 Before you operate your VCR Point remote toward VCR How to Access Menus 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. 4. Press QUIT/CC to exit menu, or wait a few minutes and the VCR returns to normal operation. power cbl/vcr dbs tv program Chooses and modifies options enter Things you must do before you can operate your VCR eject vol enter ch vol ch mute pause 1 f fwd 2 5 8 0 menu 3 6 9 rew play 4 7 stop rec/itr 1 4 7 tv/vcr 2 5 8 0 a adj menu memory 3 6 9 cm skip quit/cc sel sel quit/cc sp/ep Selects VCR tuner tv/vcr 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 4. SpeakeZ CLOCK TIMER SETUP AUDIO : : : 1 2 3 4 AUDIO MENU SpeakeZ: ON 1 ON 2 OFF PLAYBACK: RECORD: Press number keys then ENTER QUIT = exit Press number keys QUIT = exit MAIN MENU Press NUMBER (1 or 2) to choose ON or OFF 4 Select Language for VCR Menus/Displays (Optional) Select English, Spanish, or French for VCR menus and status displays. 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 PAGE 8 I N S T A L L A T I O N Some things you must do and others you may want to do before you can operate your VCR Before you operate your VCR 5 Set Date and Time for Clock Set the clock in the VCR to the current date and time.

See CLOCK Menu for details. Your VCR also has an Auto-Clock Set feature. See CLOCK Menu for details. The Timer features will not function unless the Clock has been set. Press 2.

CLOCK MENU AUTO CLOCK SET(ON): 1 MANUAL CLOCK SET : 2 MONTH DAY YEAR TIME CLOCK MENU : : : 1 JANUARY 1 THU 1998 12:00 PM Press number keys then ENTER QUIT = exit Press number keys QUIT = exit CLOCK MENU Press NUMBER (0-9) then ENTER to set date and time 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 CATV if you have a cable system (with or without a cable box) 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 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 Channel Up/Down arrows. See AUTO PROGRAM on the SETUP Menu 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 for detail= 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 Effect 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 "VCR Menu Operations" section for details. VCR Status Display Options When the Status Display appears, press ENTER repeatedly to see abbreviated displays, as follows: 1. 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. PAGE 12 O P E R A T I O N A quick list of all the buttons on your remote control and what they do. The Buttons on Your Remote Remote Control Operation Installing Batteries power stop/eject rew play f fwd pause sp/ep ch rec/itr AM VCR REC PM TMR AA Select VCR Mode, aim at VCR Select TV Mode, aim at TV Select CBL(DBS) Mode, aim at cable box or DBS AA POWER Button power cbl/vcr dbs tv program eject vol enter ch vol ch mute pause CBL VCR/DBS/TV MODE Selector rew play f fwd stop rec/itr 1 4 7 tv/vcr 2 5 8 0 a adj menu memory 3 6 9 cm skip Selecting Mode of Operation 1. Slide VCR/CBL(DBS)/TV selector to desired position for VCR, cable box (DBS), or TV operation. 2.

3. Press POWER to turn On/Off the selected equipment. Refer to instructions with TV and/or cable box (DBS) for operation. Be sure to install the batteries provided with this remote. Match positive (+) and negative (-) with markings shown in battery compartment. After installing batteries, the remote resets to the following brand codes: TV = 100, CABLE = 300 Note: All VCR operations and menu options can be accessed by using the remote control.



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sel sel quit/cc sp/ep A -- Feature is not available. ADJ (ADJUST Left/Right) -- Adjusts tape playback tracking while in VCR mode. Use to change status of TV menu options while in TV mode. CH (Up/Down) -- Changes favorite channels.

Also selects AUX A/V input channel. CM SKIP -- Fast forwards picture search through 30 seconds of recording. EJECT -- Ejects the tape in the VCR. ENTER -- Programs menu options and shows VCR status display. F FWD (Fast Forward)--Advances tape rapidly. MEMORY -- Returns real-time tape counter to zero (M 0:00:00). MENU -- Shows main menu. Accesses Zenith TV menus while in the TV mode. MUTE -- Press to turn off TV sound. Press again to restore TV sound.

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.

PROGRAM -- Programs remote with brand codes for your brand of TV and/or cable box (DBS). QUIT/CC -- Exits menu system. Selects closed caption for some TVs while in TV mode. REC/ITR -- Begins tape recording. REW -- Rewinds tape to the beginning.

SEL (SELECT Up/Down) -- Chooses TV on-screen menu options while in TV mode. SP/EP -- Chooses tape recording speed. STOP -- Cancels playback or record modes. TV/VCR SOURCE -- Switches source of TV picture between TV channel and VCR channel selection. VCR functions are available in TV mode. VCR/CBL(DBS)/TV -- Selects operational mode of remote. VOLUME (Up/Down) -- Changes volume of TV. O P E R A T I O N PAGE 13 Programming Your Remote Some functions of your products may not be controlled by this remote. In such cases, use the original remote control furnished with the product. If you are using Zenith products, the remote comes programmed for the most commonly used codes.

For other brands -- or if your remote fails to control your Zenith product -- you will have to program the remote. Follow these steps for each product: pause rew play fwd power cbl/vcr dbs tv program CBL VCR/DBS/TV Mode Selector Program Button eject vol enter ch vol ch mute 1. Locate the three-digit code for your brand and type of equipment in the code tables below. 2. Slide VCR/CBL(DBS)/TV to choose TV or cable box (DBS) mode of operation. 3. Press and hold PROGRAM while entering the brand code for your equipment. 4. Enter the three-digit brand code and then release PROGRAM. If your equipment does not work, repeat steps 3 and 4, or try a different brand code.

5. Write down the code that operates your equipment. TV, CATV, DBS Your remote control operates the common features of most, but not all, models and brands of IR (infrared) controlled TVs and cable converters (DBS). stop rec/itr 1 4 7 tv/vcr 2 5 8 0 a adj menu memory 3 6 9 cm skip sel sel quit/cc sp/ep TV Codes by Brand TV Brand Name Codes Admiral Citizen Curtis Mathes Daewoo Daytron Emerson Fisher Funai General Electric Goldstar Hitachi JCPenney JVC KTV LXI Magnavox MGA/Mitsubishi NEC Panasonic Philco Philips Pioneer Proscan Quasar Radio Shack RCA Realistic Samsung Sanyo 151, 152, 110, 144 156, 157, 158, 160, 161, 162 115, 130, 113, 118, 144, 151 145, 146, 147, 148, 149, 150 130, 115 110, 111, 115, 131, 140, 143 116, 125 153, 154 102, 118, 127, 128, 144, 151 115, 122, 130, 131, 133, 146 119, 131, 132 102, 115, 124, 130, 133 109, 141 115, 130, 131, 138 104, 116, 123, 124, 125, 131 100, 101, 106, 107, 109, 114 115, 121, 122, 130, 131, 133 103, 115, 130 115, 130 104, 122, 127, 128, 133, 163 115, 121, 122, 131, 130, 150 121, 122 134 118, 144, 151 127, 128 110, 111, 129 118, 144, 151 110, 111, 129 104, 115, 130, 131 116, 125 XR1000 Zenith Symphonic Toshiba Wards Scott Sears Sharp Sony Sylvania TV Codes by Brand TV Brand Name Codes 115, 130 104, 116, 123, 124, 125, 131 112, 129, 131, 139 105 106, 107, 115, 121, 122, 130 133 153, 154 104, 123, 124 102, 113, 114, 115, 121, 130 131 155 100, 101 Cable Converter Codes by Brand Cable Decoder Brand Name Panasonic Paragon Philips Pioneer Pluser RCA Regal Regency Samsung Scientific Atlanta Simarx Sprucer Standard Components Stargate Teleview Texscan Tocom Uniden Unika Universal Vid Tech Video Way Viewstar Zenith Codes 313, 320 300 306, 307, 308, 309, 310 318, 319 336 318 310 304 334 317, 347, 335, 354 318, 327 318, 320, 327 334 318, 327, 328 336 303 315, 316 348 336 351, 352 339 349 306, 307, 310 300, 305, 311 Cable Converter Codes by Brand Cable Decoder Brand Name Arccher Cableview Citizen Curtis Mathes Eagle GE Gemini Gobrand Hamlin Jerrold Kale Vision Macom Magnavox NSC OAK 336 336 336 317 306, 307, 310 353 302, 328, 333 336 314, 330, 331 323, 324, 325, 326, 329 334 311, 312, 342 307, 310, 337, 338 332, 334 301, 321, 322 Codes Montgomery Wards 115, 129, 131, 103, 113, 121 General Instrument 327, 328 DBS Codes by Brand DBS Brand Name Codes RCA Sony 356 355 PAGE 14 O P E R A T I O N Introducing you to the Main Menu selections Main Menu CLOCK MENU AUTO CLOCK SET(ON): 1 MANUAL CLOCK SET : 2 Press number keys QUIT = exit PROGRAM 1 MONTH : DAY : START : STOP : CHANNEL : SPEED : REPEAT : (1 - 8) to select program ENTER to adjust program SETUP MENU AUTO PROGRAM: CH. ADD/DEL: SOURCE: ON-SCREEN DISPLAY: LANGUAGE SELECT: 1 2 3 4 5 AUDIO MENU SpeakeEZ: ON 1 ON 2 OFF PLAYBACK: RECORD: Press number keys then ENTER QUIT = exit Press number keys QUIT = exit CLOCK TIMER SETUP AUDIO Press NUMBER (1, 2, 3, 4) button SpeakeEZ CLOCK TIMER SETUP AUDIO : : : 1 2 3 4 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.

Point remote toward VCR 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. 4. Press QUIT/CC to exit menu, or wait a few minutes and the VCR returns to normal operation. power cbl/vcr dbs tv program Chooses and modifies options enter eject vol enter ch vol ch mute pause 1 fwd 2 5 8 0 menu 3 6 9 rew play 4 7 stop rec/itr 1 4 7 tv/vcr 2 5 8 0 a adj menu memory 3 6 9 cm skip quit/cc sel sel quit/cc sp/ep 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 TV/VCR repeatedly until VCR indicator appears in the front panel. Selects VCR tuner tv/vcr O P E R A T I O N PAGE 15 Clock Menu The Clock Menu sets the clock in the VCR to the current time. There are two options. AUTO and MANUAL The Clock Menu sets the clock in VCR to the current time. Auto Clock Set AUTO automatically sets the clock in the VCR to the current time and date.

AUTO works only in areas where Data Service (DS) signals are provided along with normal TV signals. 1. Press MENU to see Main Menu. 2. Press 1 to see Clock Menu on the Main Menu. 3. Press 1 to set the current time automatically on the Clock Menu.



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Notes: We recommend that you set the clock using the MANUAL method the first time you use your VCR. See MANUAL option for details. The clock must be set before you can record by using the TIMER Menu.

Press number keys QUIT = exit CLOCK MENU AUTO CLOCK SET(ON): 1 MANUAL CLOCK SET : 2 Manual Clock Set The CLOCK Menu sets the clock in the VCR to the current date and time. Notes: The clock must be set before you can record by using the TIMER menu. You may have to reset the clock if a power outage lasts for more than 3 seconds. CLOCK MENU MONTH DAY YEAR TIME : : : 1 JANUARY 1 THU 1998 12:00 PM Press number keys then ENTER QUIT = exit Typical CLOCK Menu with date and time settings How to Set Clock 1. Press MENU to see Main Menu.

2. Press 1 to see clock options. 3. Press 2 to adjust your options. 4.

Press the NUMBER (0-9) then ENTER to specify current date and time. 5. Press QUIT/CC to exit the menu system. PAGE 16 O P E R A T I O N The TIMER Menu tells the VCR when to record a program on a day and at a time you specify Timer Menu 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 MON 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 (18) to choose program Number. REPEAT OPTIONS ONCE -- Records once. WEEKLY -- Records once each week. DAILY -- Records one time each day, Monday - Friday. CHANNEL OPTIONS To select an AUX channel, select the next highest or lowest channel programmed in the VCR with the CHANNEL Up/Down arrows. How to Use Timer 1.

Choose TIMER menu as described in "How to Access Menus." 2. Press the Numbers on the Remote as needed for the items in the menu, then press ENTER. 3. Press QUIT/CC to exit the menu system. Note: Set the VCR in TIMER mode by pressing POWER to turn off the VCR. The TIMER indicator appears in the front panel of the VCR. You cannot operate the VCR manually while it is recording. Pressing POWER stops the recording. 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. To Erase a Program 1. Choose TIMER menu as described in "How to Access Menus." 2. Press NUMBER(1-8) to select desired PROGRAM to be erased.

3. Press 0 to erase the program. 4. Press QUIT/CC to exit the menu system. PROGRAM 1 MONTH : 7 JULY DAY : 20 MON START : 11:16 AM STOP : 11:46 AM CHANNEL : 20 TV SPEED : EP REPEAT : ONCE (1 - 8) to select program to erase press (0) Follow these steps Press 0 to erase program O P E R A T I O N PAGE 17 Setup Menu Choose SETUP Menu as described in "How to Access Menus."

" SETUP MENU AUTO PROGRAM: CH. ADD/DEL: SOURCE: ON-SCREEN DISPLAY: LANGUAGE SELECT: 1 2 3 4 5 The SETUP Menu customizes the VCR's operation for your particular needs. Press number keys QUIT = exit AUTO PROGRAM CH. ADD/DEL Finds all active channels and stores them in the VCR's memory for access by Channel Up/Down. Press 1 to begin search. Edits the channels found by AUTO PROGRAM. Use number keys followed by ENTER to select the channel to be edited (e.g., to ADD channel 3, press 3 then ENTER). Press ENTER to ADD or DEL (Delete) channels to create your own list of favorite channels.

Selects TV, CATV, or AUX as the source of the program to watch or record. Choose TV if you have an antenna connected to the VCR. Choose CATV if you have a cable system (with or without a cable box) connected to the VCR. Choose AUX if you want to see the program from accessory equipment, such as a camcorder, connected to the Audio/Video (A/V) IN jacks on the VCR. Selects whether or not you see VCR Status Displays on the TV. Selects English, Spanish or French for VCR menus and displays on the TV. SOURCE ON-SCREEN DISPLAY LANGUAGE SELECT PAGE 18 O P E R A T I O N AUDIO Menu's PLAYBACK and RECORD options are available only with stereo VCRs. Audio Menu The AUDIO Menu indicates the audio format used when recording or playing a tape. Choose AUDIO Menu as described in "How to Access Menus." Press ENTER (and repeat) to choose items in the menu (some models).

AUDIO MENU SpeakEZ: ON 1 ON 2 OFF PLAYBACK: RECORD: Press number keys then ENTER QUIT = exit SpeakEZ Turns SpeakEZ ON or OFF. A voice tells you how to use the features you select in the menus if SpeakEZ is ON. (ON is recommended.) Selects HI-FI or NORMAL for tape playback. HI-FI (High Fidelity) provides stereo sound, if present on the tape, to the left and right VCR AUDIO output jacks on the back of the VCR.

@@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. @@Turn TV and VCR on. 2. @@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. @@@@2. Select channel 3 (or 4) on the TV. @@(Then, select the A/V source on the TV.) 3. @@Press 3 for AUX, then ENTER. @@@@Selects programs for the VCR from a rooftop-type antenna. Selects programs for the VCR from Cable TV. @@@@For example, most rental movies have no safety tab.

Simply insert the prerecorded VHS cassette into the VCR. Power turns on and playback begins. 2. Select the channel 3 or 4 at the TV. @@Press POWER to turn VCR on.

2. Insert a prerecorded VHS cassette into the VCR. 3. @@Select the channel 3 or 4 at the TV. @@Press STOP if the tape is playing.

2. @@Your VCR sets the playback speed automatically to the speed used to record the tape. (Continued on next page) a sel sel menu memory adj quit/cc sp/ep 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 PAGE 22 O P E R A T I O N This page explains how to use the remote to play tapes on your VCR. Playing Tapes 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.



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While the tape is playing, press ADJ. (F/G) to adjust the tracking manually. power POWER ENTER PAUSE rew eject cbl/vcr dbs tv program ch vol vol ch mute enter 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 f fwd stop REW (Rewind) PLAY rec/itr 1 4 2 5 8 0 a adj menu memory 3 6 9 cm skip CM SKIP ADJUST (F/G) 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. 7 tv/vcr sel sel quit/cc sp/ep 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.

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. O P E R A T I O N PAGE 23 Instant Recording 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. 1. Turn TV and VCR on. 2. Place VCR in VCR mode by pressing TV/VCR on the remote repeatedly until the VCR indicator appears in the VCR front panel. 3. Select channel 3 or 4 at the TV. @@4.

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. 5. Insert a VHS cassette tape into the VCR. 6. Press SP/EP to select recording speed, if desired. Recording speed is always SP, unless you select EP. 7. Press REC/ITR until recording begins.

REC indicator appears in the VCR front panel. Recording continues until you reach the end of the tape, or until you press STOP to stop recording. power tv/vcr sp/ep Recording what you are watching on TV. rec/itr stop Remote's Controls power sp/ep rec/itr stop/eject VCR's Controls Instant Recording (until end of tape) Instant Timer Recording (Preset recording times) PAUSE STOP or STOP/EJECT Momentarily Pauses Stops and exits recording recording. Press PAUSE mode. again to resume recording. STOP or STOP/EJECT Stops and exits recording mode. PAGE 24 O P E R A T I O N Recording using preset time periods. Instant Recording 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 where 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 tv/vcr sp/ep rec/itr stop Remote's Controls power sp/ep rec/itr stop/eject 1 2 Turn TV and VCR on. VCR's Controls Place VCR in VCR mode by pressing TV/VCR on the remote repeatedly until the VCR indicator appears in the VCR front panel. Select channel 3 or 4 at the TV.

@@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. The REC indicator 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. Presses 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 Preset Time For Recording Until end of tape 30 minutes 1 hours 1 hour and 30 minutes 2 hours . . . 4 hours normal recording 3 4 5 6 7 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. 8 O P E R A T I O N PAGE 25 Instant Recording 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.

Recording one show while watching another. power tv/vcr sp/ep rec/itr stop Remote's Controls 1 2 Turn TV and VCR on. power sp/ep rec/itr stop/eject Place VCR in VCR mode by pressing TV/VCR on the remote repeatedly until the VCR indicator appears in the VCR front panel. Select channel 3 or 4 at the TV. @@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 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 TV/VCR on remote to turn off VCR indicator in the VCR front panel. Select the show you wish to watch using the TV's channel selector. VCR's Controls 3 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. 4 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 TV/VCR on the remote to show the VCR indicator in the VCR's front panel.

PAGE 26 O P E R A T I O N This page explains how to use the timer so that you can record while you are away. Recording While You're Away SpeakEZ CLOCK TIMER SETUP AUDIO : : : 1 2 3 4 Press 2 Press number keys QUIT = exit 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 MAIN MENU TIMER MENU for Program 1 TIMER MENU for Program 8 Timer-controlled recording lets you record shows unattended.



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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 Turn TV and VCR on. Place VCR in VCR mode by pressing TV/VCR on the remote repeatedly until the VCR indicator 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 (at 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 TMR indicator appears in the VCR front panel to indicate the VCR is in the TIMER recording mode. Off 3 4 5 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 T R O U B L E S H O T I N G PAGE 27 Troubleshooting 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 TV/VCR on the remote repeatedly until VCR indicator appears in the VCR front panel. If you have a cable box, turn it on and select channel 3 or 4 at the VCR. Some quick and easy tips to fixing problems yourself. 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.

TV/VCR mode for VCR is set to TV. Press TV/VCR on remote repeatedly to choose VCR mode. VCR indicator appears in VCR front panel. VCR features do not function. VCR does not respond to remote functions or VCR keys.

VCR is locked up Disconnect VCR power cord for three (3) seconds. Reset clock and other features as necessary. 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. 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. 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. Press TV/VCR repeatedly to choose VCR mode. VCR indicator appears in VCR front panel. Use ADJ. (F/G) for manual tracking adjustment while tape is playing. Clean video heads. From STILL video mode, enable slow-motion playback. Use ADJ. (F/G) to adjust tracking for best picture.

Return to PLAY mode, then press PAUSE for STILL video. PAGE 28 T R O U B L E S H O T I N G Some quick and easy tips to fixing problems yourself. Troubleshooting Channel Tuning Problems Observed Condition Some channels are skipped over when using Channel Up/Down. 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 for details. Tighten connections or replace cable. Try all SOURCE options. See SETUP menu 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. Probable Solution Turn camcorder on and operate properly.

Use Channel Up/Down to select AUX A/V input channel. Set clock to correct time. See CLOCK menu. Turn VCR off to enable timer. TMR indicator appears in the VCR front panel. Reprogram Timer. See TIMER menu. Reprogram Timer and turn VCR off to enable timer. This is normal indication that the VCR is in TIMER mode. If needed, disable TIMER by turning VCR on.

Clock in VCR is not set to correct time. VCR is on which disables timer. Timer has been programmed incorrectly. TMR indicator does not appear after programming timer. TMR indicator 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. T R O U B L E S H O T I N G PAGE 29 Troubleshooting 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. Some quick and easy tips to fixing problems yourself. 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.



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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. PAGE 30 INDEX Find what you want quickly.

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..... 19 *Recommended Audio/Video Accessories STEREO SURROUND SOUND SPEAKERS For use with any Surround Sound compatible TV. These*

speakers create a sound so real, it's as if you were part of the action. The convenient, space-saving shelf design make these speakers an ideal addition to any Home Theater System. @@@@Order your replacement remote control direct from Zenith! @@@@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 . 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. Zenith Electronics Corporation Customer Service
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