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You can read the recommendations in the user guide, the technical guide or the installation guide for ZENITH VCS342. You'll find the answers to all your questions on the ZENITH VCS342 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual ZENITH VCS342**  
**User guide ZENITH VCS342**  
**Operating instructions ZENITH VCS342**  
**Instructions for use ZENITH VCS342**  
**Instruction manual ZENITH VCS342**

**Installation and Operating Guide | Warranty**

Model Numbers | VCS342 • VCM322 | Video Cassette Recorders



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**Manual abstract:**

**WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT. ATTENTION: POUR ÉVITER LES CHOC ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND. WARNING: Do not drop the power cord tying band into the unit. Doing so might cause a fire or an electrical shock. (See page 10.) SERIAL NUMBER: The serial number is found on the back of this unit. This number is unique to this unit and not available to others. You should record requested information here and retain this guide as a permanent record of your purchase. Model No.**

Serial No. \_\_\_\_\_ **REGULATORY INFORMATION: FCC Part 15** This product 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 product is operated in a residential installation. This product generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures: · Reorient or relocate the receiving antenna. · Increase the separation between the product and receiver. · Connect the product into an outlet on a circuit different from that to which the receiver is connected. · Consult the dealer or an experienced radio/TV technician for help. **FCC WARNING: This equipment may generate or use radio frequency energy.**

Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made. **FCC COMPLIANCE: The responsible party for this product's compliance is: Zenith Electronics Corporation, 2000 Millbrook Drive, Lincolnshire, IL 60069, USA Phone: 1-847-941-8000. MOISTURE**

**CONDENSATION** If you pour a cold liquid into a glass, water vapor in the air will condense on the surface of the glass. This is moisture condensation.

Moisture condensation on the head drum, one of the most crucial parts of the unit, will cause damage to the tape. When the VCR is exposed to a rapid temperature change from cold to warm, some condensation will occur. Under this condition, connect the power cord to the AC line, press **POWER** on and allow at least two hours for the VCR to dry out. **IMPORTANT COPYRIGHT INFORMATION: Many television programs and films are copyrighted. In certain circumstances copyright law may apply to private in-home video taping of copyrighted materials.**

**2 FEATURES · Auto Clock Set System · Energy Save Function · Easy Operations · MTS Hi-Fi Stereo · 1 Year/8 Event Timer with DAILY and WEEKLY Functions · Auto Power and Playback Functions · Instant Timer Recording · Real-Time Tape Counter, Tape Remaining Time · Clean Still, Slow, Frame Advance, Commercial Skip · Auto Tracking Function/Auto Head Cleaner · Onscreen Function Display · Trilingual Onscreen Programming Menus (English/Spanish/French) CONTENTS INTRODUCTION Features/Contents/Accessories . . . . .**

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. . . . .Back Cover INTRODUCTION VCR SETUP PLAYBACK RECORDING ADDITIONAL INFORMATION ACCESSORIES Remote Control power eject menu ch/trk enter ch/trk RF Coaxial Cable Check to make sure that all accessories listed left have been included with your VCR. · Depending on your antenna system, you may need a different type of Combiner (Mixer) or Separator (Splitter). These are available at most electronics stores.

For further details, see your nearest authorized service center. clear adj adj tv / vcr stop rew pause slow sp / slp rec / itr ff play cm skip EZ review input 3  
**IMPORTANT SAFETY INSTRUCTIONS INTRODUCTION PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS IN THIS OWNER'S MANUAL. AND THOSE MARKED ON THE PRODUCT. RETAIN THIS BOOKLET FOR FUTURE REFERENCE. This product has been designed and manufactured to assure personal safety.**

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

1. Read these instructions. - All these safety and operating instructions should be read before the product is operated. 2. Keep these instructions. - The safety, operating and use instructions should be retained for future reference. 3. Heed all warnings. - All warnings on the product and in the operating instructions should be adhered to. 4.

Follow all instructions. - All operating and use instructions should be followed. 5. Do not use this product near water. For example: near a bath tub, wash bowl, kitchen sink, laundry tub, in a wet basement; or near a swimming pool; and other areas located near water. 6. Clean only with dry cloth.



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Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners. 7.

Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. - Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other.

A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the product. 11. Only use attachments/accessories specified by the manufacturer. 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with apparatus. When a cart is used, use caution when moving the cart/product combination to avoid injury from tip-over.

13. Unplug this product during lightning storms or when unused for long periods of time. 14. Refer all servicing to qualified service personnel. Servicing is required when the product has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the product, the product has been exposed to rain or moisture, does not operate normally, or has been dropped. 4 VCR FEATURES CHART This page shows the features of your VCR and the differences between the models. FEATURES 4-Heads (Special Video Effects) Full Load/Quick Start Auto Head Cleaner Audio System Audio/Video (A/V) Jacks Remote Control Auto/Manual Band Select Auto/Manual Channel Search Channel Capability (CATV & TV) Record Playback Tape Speed SP/SLP Playback Speeds SP/LP/SLP Auto Playback System Auto/Manual Digital Tracking Instant Recording Timer-Controlled Recording Auto Playback Tape Speed Adjust Slow-Motion Video (4-head VCR) Pause/Still Video Real-Time Tape Counter Visual Search Logic Search CM Skip English/Spanish/French Menus 1-Year, 8-Event Timer Message Center Front Panel Display Easy Power On Easy Review Easy Information Auto Clock Set System Hook-up Cable (VCR to TV) Energy Saving VCS342 Yes Yes Yes MTS Hi-Fi Stereo Stereo Yes Yes Yes 181 Yes Yes Yes Yes Yes Yes Yes Yes (1/19) Clear Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes VCM322 Yes Yes Yes Monaural Monaural Yes Yes Yes 181 Yes Yes Yes Yes Yes Yes Yes Yes (1/19) Clear Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes INTRODUCTION 1. Model VCS342 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.

5 CONNECTIONS FOR YOUR VCR Required connections for your VCR. CONNECTIONS WITHOUT A CABLE BOX Turn off power or unplug VCR before making any connections. Antenna VCR SETUP Back Panel of Stereo VCR AUDIO R IN OUT L IN OUT 3 VIDEO 4 VHF/UHF /CATV LINE1(AUX1) ANT.IN Flat Wire (300 ohm) 300/75 ohm Adaptor (Not provided) OR OR Cable TV Wall Jack Connection Panel of Typical TV IN OUT IN CH. VHF/UHF/CATV OUT R AUDIO L VIDEO ANT IN This cable is provided with your VCR.

CONNECTIONS WITH A CABLE BOX Turn off power or unplug VCR before making any connections. Back Panel of Stereo VCR IN LINE1(AUX1) AUDIO R OUT L IN OUT 3 4 VHF/UHF /CATV IN OUT VIDEO OUT JACK; Connect this output jack to the video input terminal on an external unit (TV/Monitor, Another VCR). AUDIO IN (L/R) JACKS; Connect the audio output cable(s) from an external unit (Audio system, TV/Monitor, Another VCR) to these jacks. VIDEO IN JACK; Connect the video output cable from an external unit (TV/Monitor, Another VCR) to this jack. NOTE Use INPUT to select an A/V input channel (LINE1 or LINE2).

WARNING : Do not drop the power cord tying band into the unit. Doing so might cause a fire or an electrical shock. VCR OUTPUT CHANNEL SELECT SWITCH Set this switch to channel 3 or 4. VHF/UHF/CATV ANTENNA OUTPUT CONNECTOR Connect this terminal to the VHF or UHF antenna terminals on the back of a TV. POWER CORD Connect only to an AC 120V, 60Hz outlet. SET POSITION OF THE CH3/CH4 SWITCH 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 light appears in the VCR's front panel display. Press MENU on the remote to see the main menu.

3 4 CH. Tune TV to Ch.3 OR 3 4 CH. Tune TV to Ch.4 10 REMOTE CONTROL The remote control is used for most of the operations and features of the VCR. Before proceeding, put batteries in the remote and become familiar with the buttons. Use only type AAA batteries. The maximum operating distance is about 25 feet. The POWER, PLAY, PAUSE, FF, REW and REC/ITR buttons on the remote control unit perform the same functions as the corresponding buttons on the VCR. The following buttons are on the remote control unit only.

EJECT To eject the tape in the VCR (page 18). CLEAR Cancels a timer recording (page 28). Resets tape counter to 0:00:00 (page 34). D E F G ARROWS Move up, down, left, right one row, column, or selection (hold to repeat) (pages 14, 15). VCR SETUP ENTER Accesses the onscreen menu (page 14). Displays functions on the TV screen. Switches among the clock, tape counter and tape remaining modes on the display (pages 13, 34). SP/SLP Use to select recording speed (page 25). input SLOW For slow motion playback (page 24). CM SKIP To fast forward picture search through 30 seconds of recording (page 24).

EZ REVIEW Replays the specified segment twice. INPUT Select the VCR's line input or tuner. NUMBER buttons Use these buttons, numbered 0-9, to select a channel. 11 REMOTE CONTROL (Cont'd) MENU Displays the programming menu on the TV screen. Quits the current screen or Pop-up, or returns to the currently tuned channel (pages 14, 16). DE CH/TRK (channel/tracking) (D/E) · To scan up or down through memorized channels (page 16).



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· To manually adjust the tape's picture onscreen (page 21). VCR SETUP TV/VCR To view channels selected by the VCR tuner or by the TV tuner (pages 10, 25). STOP To stop playback or recording (pages 21, 25). input REMOTE CONTROL OPERATION Aim the remote control at the sensor on the front panel of the VCR.

**HOW TO INSTALL THE BATTERIES** 1. Remove the battery compartment cover. 2. Insert 2 "AAA"-size batteries, match "+" and "-". 3. Replace the cover. AAA AAA NOTES · The remote control will not operate properly if something comes between the VCR and the remote control. · If the effective range is short, try new batteries. · An object between the VCR and remote control may block the invisible light beam and operation will be impossible. · Batteries installed with incorrect polarity may leak and damage your Remote Control.

· Do not mix old and new batteries or carbon types with alkaline types. · Remove the batteries from the battery compartment if the remote control will not be used for a long time. 12 **ONSCREEN DISPLAY (OSD) PREPARATION** · Turn on the power of both the VCR and TV. · Tune the TV to the VCR output channel (CH 3 or 4). · If a direct VIDEO/AUDIO connection is made between the VCR and the TV, set the TV's source selector to VIDEO.

**ONSCREEN FUNCTION DISPLAYS** Some of these functions will be displayed every time the VCR is operated. **FUNCTION DISPLAY** Indicates the function in progress. **HI-FI DISPLAY** Indicates the unit is playing back a tape recorded in HI-FI. **CHANNEL DISPLAY** Indicates the selected channel (or LINE1, LINE2). **STEREO/SAP DISPLAY (MONO is not displayed)** Shows the type of audio signal received by the VCR tuner.

**TAPE SPEED DISPLAY** Shows the current tape speed. **CLOCK/COUNT/REMAIN DISPLAY** Shows the current time, the tape counter, and remaining time on the tape. **DATE DISPLAY** Shows the current date. (Month/Date/Day of the week format) Each press of the ENTER changes the TV screen in the following sequence. STOP SP CH 4 STEREO VCR SETUP PLAY SP HI-FI CH 4 STEREO JUL 5 , SAT 2:15 PM power eject menu ch/trk enter ch/trk clear JUL 5 , SAT 2:15 PM adj adj 2:15 PM tv / vcr stop rew pause slow sp / slp rec / itr ff 0:35:40 REM 1:58 play cm skip EZ review NOTES · The function displays can be seen displayed on the TV screen for 5 seconds. · The clock (or tape counter, tape remaining) mode will remain on the screen until you press ENTER. · The tape counter and the remaining tape length indicator appear only when a cassette is inserted. Also, the remaining tape length indicator appears after any tape operation. 13 **SETTING THE ONSCREEN MENUS** power eject The SETUP, clock setting (Clock Set), and timer recordings (Program) features are conveniently accessible using the onscreen menus. The following pages describe the Main and sub menus.

**PREPARATION** · Turn on the power of both the VCR and TV. · Tune the TV to the VCR output channel (CH 3 or 4). · If a direct VIDEO/AUDIO connection is made between the VCR and the TV, set the TV's source selector to VIDEO. menu ch/trk enter ch/trk clear adj adj tv / vcr stop pause slow sp / slp rec / itr ff

VCR SETUP rew play MENU SELECTION cm skip Use the remote control to adjust the VCR's features. EZ review 1. Press MENU and the MAIN menu will appear. input 2. Select the desired menu with the press ENTER. MONTH : JANUARY DAY : 1 WED YEAR : 2003 TIME : 12 : 00 AM AUTO CLOCK SET : ON DAYLIGHT SAVING: AUTO TIME ZONE: AUTO D or E button and then CLOCK SET (pages 19-20) SELECT ADJUST TO EXIT PRESS PROGRAM 1 MONTH : DAY : START : STOP : CHANNEL : SPEED : REPEAT : PROGRAM (pages 26-28) MAIN MENU CLOCK PROGRAM TUNING SETUP SELECT

ENTER TO EXIT PRESS SELECT ADJUST TO EXIT PRESS TUNING (pages 16-17) AUTO CHANNEL SET TUNING BAND: TV CH. ADD/DEL: CH. 2 ADD SOURCE SELECT: TUNER SELECT ADJUST TO EXIT PRESS SETUP (page 15) FUNCTION OSD : ON LANGUAGE SELECT: ENGLISH AUDIO MODE: HI-FI BROADCAST TYPE: STEREO AUDIO OUTPUT: STEREO SELECT ADJUST TO EXIT PRESS NOTE · Menus remain on the screen for 3 minutes. 14 **SETUP MENU FEATURES AND OPERATION** MAIN MENU CLOCK PROGRAM TUNING SETUP SELECT ENTER TO EXIT PRESS

FUNCTION OSD The onscreen display of this VCR can be turned on or off. Set up the FUNCTION OSD option by selecting ON or OFF using F or G. LANGUAGE SELECT The onscreen programming menus of this VCR can be displayed in either English, Spanish, or French. Go to the LANGUAGE SELECT option and select ENGLISH, SPANISH, or FRENCH using F or G.

SETUP MENU FUNCTION OSD : ON LANGUAGE SELECT: ENGLISH AUDIO MODE: HI-FI BROADCAST TYPE: STEREO AUDIO OUTPUT: STEREO VCR SETUP AUDIO MODE DISPLAY The VCR has two separate audio playback systems, the high quality VHS Hi-Fi system and standard NORMAL mono system. The same audio is generally recorded on both systems. The VHS Hi-Fi system plays on separate (left and right) channels, and the NORMAL system plays monaural sound. The normal track is always played so the cassette can be played on a VCR that does not have VHS Hi-Fi. Go to the AUDIO MODE option and select HI-FI or NORMAL using F or G.

SELECT ADJUST TO EXIT PRESS Use D or E to choose a desired option on the SETUP menu. Then use F or G to choose a desired setting. **BROADCAST TYPE DISPLAY (STEREO/SAP/MONO)** Multichannel Television Sound (MTS) carries stereo and/or Second Audio Program (SAP) bilingual signals. Set this display to the desired position when both MTS stereo and SAP signals are received. When only one of the MTS signal is received, the VCR automatically selects the corresponding receiving mode (Stereo or SAP) regardless of the selected position. For normal operation, the display should be in the STEREO position. The VCR will then record a STEREO program when available, and record a mono program if the program is NOT IN STEREO. Go to the BROADCAST TYPE option and select STEREO, SAP, or MONO using F or G. · For weak STEREO and/or SAP broadcasts, changing the display to mono may give clearer sound. **AUDIO OUTPUT DISPLAY (STEREO/LEFT/RIGHT)** Used during playback [when AUDIO MODE display (HI-FI/NORMAL) is in HI-FI position] for selecting the audio output signals from the AUDIO OUT terminals (L ch and R ch), and VHF/UHF/CATV.

This display setting should normally be left in the stereo position, so that when a stereo tape is played, the stereo sound will be heard through the left and right channels. If a mono tape is played and the audio output is set to stereo, the same mono sound will be heard from both left and right channels. Go to the AUDIO OUTPUT option and select STEREO, LEFT, or RIGHT using F or G. 15 **CHANNEL/SOURCE SELECTION** menu ch/trk enter ch/trk clear This VCR is equipped with a frequency synthesized tuner capable of receiving up to 181 channels.



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These include VHF channels 2-13, UHF channels 14-69 and CATV channels 1-125. PREPARATION · Connect the VCR to the desired type of antenna or cable TV system, as shown in ANTENNA TO VCR CONNECTIONS and CABLE ANTENNA (CATV) CONNECTION (page 6). · Switch on the power to the VCR and TV. · Tune the TV to the VCR output channel (CH 3 or 4). adj adj tv / vcr stop rew pause slow sp / slp rec / itr ff play cm skip EZ review AUTO CHANNEL PROGRAMMING 1. Press MENU and the MAIN menu will appear.

2. Use D or E to select the TUNING menu option, then press ENTER. The TUNING menu will appear. to choose the SOURCE SELECT option, then Use to select TUNER. Press F or G repeatedly to select TUNER, LINE1 or LINE2.

E F CLOCK PROGRAM TUNING SETUP SELECT ENTER TO EXIT PRESS 3. Use or G AUTO CHANNEL SET TUNING BAND: TV CH. ADD/DEL: CH. 2 ADD SOURCE SELECT: TUNER 4. Use SELECT ADJUST TO EXIT PRESS D or E to choose the AUTO CHANNEL SET option, then press F or G to start the channel search.

The VCR will automatically search for all available active channels in the area and place them in the tuner's memory. AUTO CHANNEL SET TUNING BAND: TV CH. ADD/DEL: CH. 2 ADD SOURCE SELECT: TUNER 5. Select the TUNING BAND: TV or CATV. TV is for over the air antenna reception. CATV is for cable or wireless cable subscribers. Use D or E to choose the TUNING BAND option, then use F or G to select TV or CATV. SELECT ADJUST TO EXIT PRESS AUTO CHANNEL SET TUNING BAND: TV CH. ADD/DEL: CH.

2 ADD SOURCE SELECT: TUNER 6. Press MENU to return to the TV screen. DE Use CH/TRK (D/E) or CH (/) on the front panel to cycle through the channels in the VCR's memory. SELECT ADJUST TO EXIT PRESS AUTO CHANNEL SET PROCEEDING CHANNEL 13 TO EXIT PRESS AUTO CHANNEL SET TUNING BAND: TV CH. ADD/DEL: CH. 2 ADD SOURCE SELECT: TUNER SELECT ADJUST TO EXIT PRESS 16 CHANNEL SELECTION (Cont'd) MAIN MENU CLOCK PROGRAM TUNING SETUP SELECT ENTER TO EXIT PRESS TO ADD OR ERASE CHANNELS FROM MEMORY This feature allows you to add or erase channels from memory manually. 1. Press MENU and the MAIN menu will appear. 2. Use D or E to select the TUNING menu option, then press ENTER.

The TUNING menu will appear. TUNING MENU AUTO CHANNEL SET TUNING BAND: TV CH. ADD/DEL: CH. 2 ADD SOURCE SELECT: TUNER 3. Use E to choose the CH.

ADD/DEL option. Use F or select a channel to add or erase. G to VCR SETUP 4. Use ENTER to add or erase the channel. Repeat steps 3 and 4 to add or erase channels.

ADD/DELETE SELECT ADJUST TO EXIT PRESS 5. Press MENU to return to the TV screen. VIEWING TV ONLY Turn on the TV and tune it to the channel that you wish to watch. You don't need to disconnect the VCR from the TV to watch TV separately. When the VCR's power is OFF, or when the VCR's power is ON and the TV/VCR selector is set to TV, the TV will operate as if it were connected directly to the antenna or cable. NOTES Set POWER to OFF. · The power cord must be plugged into an AC outlet. · To view or record cable TV programs with the VCR, the VCR's TUNING BAND option must be set to CATV (TUNING menu). · Do not place the VCR directly on top of the TV. This may cause interference in the picture and sound (of the VCR) during the recording or playback mode.

If this interference occurs, move the VCR away from the TV. 17 VIDEO CASSETTE TAPES SAFETY TAB This VCR will operate with any video cassette which has the mark. The table below shows the recording/playback time of VHS cassettes when they are used in the SP, LP and SLP speeds. (LP speed is for playback only.) TYPE SPEED To prevent accidental erasure, remove the tab after recording. SP MODE LP MODE SLP MODE T-60 60 mins. 120 mins. 180 mins. T-120 120 mins. 240 mins.

360 mins. T-160 160 mins. 320 mins. 480 mins. VCR SETUP WHEN HANDLING VIDEO CASSETTES To record again cover the hole with vinyl tape.

· Do not expose video cassettes to extreme heat, high humidity, or strong magnetic fields. · Do not tamper with the cassette mechanism. · Do not touch the tape with your fingers. · Always store an unused cassette in its case. LOADING Hold the cassette with the arrow side up (top).

Insert the cassette gently into the slot in the direction of the arrow (on the cassette) until the loading mechanism automatically pulls the cassette into the unit. Make certain that the cassette is inserted correctly. · If the cassette is not loaded correctly, the VCR will eject the cassette automatically after approximately 3 seconds. UNLOADING Press STOP/EJECT twice or press EJECT on the remote control. The cassette will be ejected automatically. After the cassette is visible in the tape slot, pull it out to remove it. · Unloading the cassette is possible only when the power cord is connected to the wall outlet. · The cassette can be ejected when STOP/EJECT is pressed, even if the VCR's power is OFF. 18 SETTING THE CLOCK menu ch/trk enter ch/trk clear Things to know before starting · The clock uses the 12-hour system. (Be sure to set AM and PM correctly.

) · The buttons for setting the clock are on the remote control. · An illogical date will not be accepted (for example: February 30). · The initial Clock Setting is JANUARY 1, 2003, 12:00 AM. PREPARATION · Turn on the power of both the VCR and TV. · Tune the TV to the VCR output channel (CH 3 or 4). · If a direct VIDEO/AUDIO connection is made between the VCR and the TV, set the TV's source selector to VIDEO. The VCR gives you two ways to set the time and date: the Auto Clock Feature or manually. The Auto Clock Feature enables the VCR to set up the clock when the VCR is turned off. adj adj tv / vcr stop rew pause slow sp / slp rec / itr ff play cm skip EZ review VCR SETUP MAIN MENU CLOCK PROGRAM TUNING SETUP SELECT ENTER TO EXIT PRESS CLOCK MENU MONTH : JANUARY DAY : 1 WED YEAR : 2003 TIME : 12 : 00 AM AUTO CLOCK SET : ON DAYLIGHT SAVING: AUTO TIME ZONE: AUTO AUTO CLOCK SET 1. Press MENU and the MAIN menu will appear.

2. Use D or E to choose the CLOCK menu option. Press ENTER and the CLOCK menu will appear. SELECT ADJUST TO EXIT PRESS 3. Use E to choose the AUTO CLOCK SET option.

Use F or G to choose ON. MONTH : JANUARY DAY : 1 WED YEAR : 2003 TIME : 12 : 00 AM AUTO CLOCK SET : ON DAYLIGHT SAVING: AUTO TIME ZONE: AUTO SELECT ADJUST TO EXIT PRESS The Auto Clock Set feature is set to ON at the factory. In the ON setting, the VCR looks for a channel carrying XDS (Extended Data Services) information. XDS updates the clock using the Coordinated Universal Time. 4.

Use E to choose the DAYLIGHT SAVING option. MONTH : JANUARY DAY : 1 WED YEAR : 2003 TIME : 12 : 00 AM AUTO CLOCK SET : ON DAYLIGHT SAVING: AUTO TIME ZONE: AUTO Use F or G to choose AUTO, ON or OFF. SELECT ADJUST TO EXIT PRESS If you choose AUTO, the VCR sets the clock using the DST information broadcast in the signal (channel).



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If you choose ON, the VCR sets the clock when the Daylight Saving Time is started and ended. NOTE 5. Use E to choose the TIME ZONE option. Use F or G to choose the correct time zone (AUTO, EASTERN, CENTRAL, MOUNTAIN, PACIFIC, ALASKA, or HAWAII). If "AUTO" is selected as the time zone, the VCR sets the clock using the first Coordinated Universal Time information it finds in a broadcast signal. There are cases that the TV station does not send or sends wrong date and/or time information and the VCR sets the time incorrectly. In this case we recommend that you set the clock manually.

6. Press MENU when finished. 7. Turn off the VCR to complete auto clock setting. 19 SETTING THE CLOCK (Cont'd) MAIN MENU CLOCK PROGRAM TUNING SETUP SELECT ENTER TO EXIT PRESS MANUAL CLOCK SET Example: JULY 5, 2003 ; 2:15 AM 1. Press MENU and the MAIN menu will appear. 2. Use D or E to choose the CLOCK menu. Press ENTER and the CLOCK menu will appear. CLOCK MENU VCR SETUP MONTH : JANUARY DAY : 1 WED YEAR : 2003 TIME : 12 : 00 AM AUTO CLOCK SET : ON DAYLIGHT SAVING: AUTO TIME ZONE: AUTO 3.

Use F or G to choose the month. 4. Use E to choose the DAY option. Use F SELECT ADJUST TO EXIT PRESS or G to choose the day. The day of the week will display automatically.

MONTH : JULY DAY : 5 SAT YEAR : 2003 TIME : 12 : 00 AM AUTO CLOCK SET : OFF DAYLIGHT SAVING: AUTO TIME ZONE: AUTO 5. Use E to choose the YEAR option. Use F or G to choose the year. SELECT ADJUST TO EXIT PRESS 6. Use E to choose the TIME option.

Use F or G to choose the time. MONTH : JULY DAY : 5 SAT YEAR : 2003 TIME : 12 : 00 AM AUTO CLOCK SET : OFF DAYLIGHT SAVING: AUTO TIME ZONE: AUTO 7. Use E to choose the DAYLIGHT SAVING option. Use F or G to choose the ON or OFF option. SELECT ADJUST TO EXIT PRESS 8. Press MENU when finished. MONTH : JULY DAY : 5 SAT YEAR : 2003 TIME : 2 : 15 AM AUTO CLOCK SET : OFF DAYLIGHT SAVING: AUTO TIME ZONE: AUTO NOTE SELECT ADJUST TO EXIT PRESS "AUTO CLOCK SET" must be set to "OFF". If set to "ON", an incorrect date and/or time will be entered again when the VCR is turned off. MONTH : JULY DAY : 5 SAT YEAR : 2003 TIME : 2 : 15 AM AUTO CLOCK SET : OFF DAYLIGHT SAVING: ON TIME ZONE: AUTO SELECT ADJUST TO EXIT PRESS 20 NORMAL PLAYBACK PREPARATION · Turn on the TV. · Tune the TV to the VCR output channel (CH 3 or 4).

· If a direct VIDEO/AUDIO connection is made between the VCR and the TV, set the TV's source selector to VIDEO. NORMAL PLAYBACK 1. Insert a prerecorded video cassette. The indicator will light and the VCR will power-up automatically. · Make sure that the TIMER indicator in the VCR indicator panel is not lighted. If it is, press POWER once. · If a tape without a safety tab is inserted, the VCR will start playback automatically. PLAYBACK power eject menu ch/trk enter ch/trk clear 2. Press PLAY once. adj adj tv / vcr stop rew pause slow sp / slp rec / itr ff play cm skip EZ review PLAY appears in the VCR indicator panel and TV screen.

· It is not necessary to select the tape speed for playback. It will be automatically selected by the VCR. · In playback, the TV/VCR selector switches to VCR mode automatically. 3. Press STOP to stop playback.

STOP appears in the VCR indicator panel and on the TV screen. · If the tape reaches the end before STOP is pressed, the VCR will automatically stop, rewind, eject, and it will turn itself off. input TRACKING CONTROL AUTO TRACKING The automatic tracking function adjusts the picture to remove snow or streaks. @@· Tape speed (SP, LP, SLP) changes. · Streaks or snow appear because of scratches on the tape.

@@@· Load a cassette (with the safety tab removed). · The power turns on automatically and playback begins. · At the end of the tape, the VCR stops, then rewinds. @@Press STOP, REW, and POWER. The VCR will rewind the tape and turn itself off automatically. 1. Press STOP when you finish watching a tape. 2. Press REW to rewind the tape. 3.

@@4. REW will flash on the VCR indicator panel. 5. @@@@· To continue normal playback, press PLAY. @@@@· To continue normal playback, press PLAY. LOGIC SEARCH FUNCTION The VCR must be in the STOP Mode. 1. Press FF or REW once. Fast winding begins. 2.

@@@@· During PLAYBACK mode... PLAYBACK input 1. @@The skipping time can be extended by pressing CM SKIP.

Subsequent presses result in advancing the fast forward picture search time by 30-second increments (maximum 3 minutes). 2. When the search is complete, the VCR will go into PLAYBACK mode automatically. SPECIAL EFFECTS PLAYBACK NOTES: · Horizontal lines (noise bars) will appear on the TV screen. This is normal.

· The audio is automatically muted during special effect modes, so there is no sound during search. · During the high-speed picture search modes, a short period is needed to stabilize tape speed when re-entering the PLAY mode. Slight interference may be observed during this period. 24 NORMAL RECORDING power eject PREPARATION · Turn on the power of both the VCR and TV. · Tune the TV to the VCR output channel (CH 3 or 4). · If a direct VIDEO/AUDIO connection is made between the VCR and the TV, set the TV's source selector to VIDEO. menu ch/trk enter ch/trk clear 1. Insert the video cassette with the safety tab in place. 2. Select the desired channel by using CH/TRK (/).

· If you are recording from an external source via audio/video input jacks (at the Rear or Front panel), select LINE1 or LINE2 using the INPUT button. adj adj tv / vcr stop rew pause slow sp / slp rec / itr ff play cm skip EZ review 3. Set the desired speed (SP or SLP) using SP/SLP. · This VCR is not designed to record in LP mode. 4. Set the MTS mode as desired (See page 15, 33). input 5. Press REC/ITR once. Recording will start. (REC will appear) · If a cassette with no safety tab is loaded, the cassette will be ejected automatically.

RECORDING 6. Press STOP to stop recording. · If the tape reaches the end before STOP is pressed, the VCR will automatically stop, rewind, eject, and turn itself off. To PAUSE the recording During the RECORDING mode..

· Always use PAUSE for best results when making changes during recording. For example: To change channels during recording, first press PAUSE to put the unit in pause mode. Then select the desired channel on the VCR, and press PAUSE again to resume recording. 1.

Press PAUSE to pause the tape. RECP will show on the VCR indicator panel. 2. When you want to continue recording, press PAUSE again or press REC/ITR. · After 5 minutes in pause mode, the tape will be stopped automatically to protect the tape and the video heads. To record one TV program while watching another 1. Press TV/VCR to select the TV mode during recording.



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

25 **TIMER RECORDING** menu ch/trk enter ch/trk clear adj adj This VCR can be programmed to record up to 8 programs within a period of 1 year. For unattended recording, the timer needs to know the channels to be recorded and the starting and ending times. tv / vcr stop rew pause slow sp / slp rec / itr ff

Things to know before starting · If you try to set the program timer before setting the clock, PLEASE SET THE CLOCK appears for a moment and then CLOCK menu appears on the TV screen. Set the time and date before proceeding. · The display contents will be automatically replaced by TV programs after 3 minutes. · Make sure a tape is in the VCR and the safety tab is in place or the tape will be automatically ejected. PREPARATION · Turn on the power of both the VCR and the TV. · Tune the TV to the VCR output channel (CH 3 or 4). · Make sure the TUNING BAND in the TUNING menu is set appropriately (TV or CATV) (see illustration left). play cm skip EZ review TUNING MENU AUTO CHANNEL SET TUNING BAND: TV CH.

ADD/DEL: CH. 2 ADD SOURCE SELECT: TUNER SELECT ADJUST TO EXIT PRESS RECORDING MAIN MENU CLOCK PROGRAM TUNING SETUP SELECT ENTER TO EXIT PRESS 1. Press MENU and the MAIN menu will appear. 2. Use D or E to choose the PROGRAM menu.

3. Press ENTER to go to the PROGRAM menu. The PROGRAM menu will appear. · If all programs have already been entered, FULLY PROGRAMMED message will appear for a moment and then PROGRAM 1 will appear on the TV screen. PROGRAM 1 MONTH : DAY : START : STOP : CHANNEL : SPEED : REPEAT : 4.

Use F or G to choose the PROGRAM No. (1-8). 5. Use E to choose the MONTH option. Use F SELECT ADJUST TO EXIT PRESS or G to choose the desired month. Example JULY. PROGRAM 1 MONTH : JULY DAY : START : STOP : CHANNEL : SPEED : REPEAT : SELECT ADJUST TO EXIT PRESS 26  
TIMER RECORDING (Cont'd) 6. Use E to choose the DAY option. PROGRAM 1 MONTH : JULY DAY : 6 SUN START : STOP : CHANNEL : SPEED : REPEAT : Use F or G to choose the desired day. Example: 6 SUN 7.

Use E to choose the START option. Use F SELECT ADJUST TO EXIT PRESS or G to choose the desired start time. Example: 6:00 PM 8. Use E to choose the STOP option. PROGRAM 1 MONTH : JULY DAY : 6 SUN START : 6:00 PM STOP : CHANNEL : SPEED : REPEAT : Use F or G to choose the desired stop time. Example: 7:30 PM 9. Use E to choose the CHANNEL option. Use F or G to choose the desired channel (Channel XX, LINE1 or LINE2). Example CH 4  
Cable Users: If you have CABLE TV and used the Cable Box setup on the Cable Connections (page 7) using a cable box converter, you must tune the VCR to the cable box output channel (usually CH 3 or 4). Change channels with the cable box instead of the VCR.

SELECT ADJUST TO EXIT PRESS PROGRAM 1 MONTH : JULY DAY : 6 SUN START : 6:00 PM STOP : 7:30 PM CHANNEL : SPEED : REPEAT :  
SELECT ADJUST TO EXIT PRESS 10. Use E to choose the SPEED option. Use F or G to choose the desired tape speed (AUTO, SP, or SLP). PROGRAM MONTH : DAY : START : STOP : CHANNEL : SPEED : REPEAT : 1 JULY 6 SUN 6:00 PM 7:30 PM 4 TV AUTO ONCE Example SP RECORDING  
SELECT ADJUST TO EXIT PRESS · The AUTO mode determines how much tape is left and switches speed from SP to SLP, if necessary, to complete recording the program. There will be some picture and sound distortion at the point of the speed change.

11. Use E to choose the REPEAT option. PROGRAM MONTH : DAY : START : STOP : CHANNEL : SPEED : REPEAT : 1 JULY 6 SUN 6:00 PM 7:30 PM 4 TV SP ONCE Use F or G to choose the desired repeat (ONCE, WEEKLY, or DAILY). Example: ONCE ONCE event..

..for recording up to 8 programs on a single day or over the days within a period of 1 year. WEEKLY event...for recording up to 8 programs on a certain day of every week. SELECT ADJUST TO EXIT PRESS PROGRAM MONTH : DAY : START : STOP : CHANNEL : SPEED : REPEAT : 1 JULY 6 SUN 6:00 PM 7:30 PM 4 TV SP ONCE DAILY event..

..for recording up to 8 programs at the same time(s) Monday through Friday. If the recording data is wrong, Use correct it using F or G. D to select the data and SELECT ADJUST TO EXIT PRESS 27 TIMER RECORDING (Cont'd) 12. Press MENU, the program will be memorized by the VCR. · If the program preset time is past, the PAST TIME PROGRAMMED message will appear on the TV screen. Return to the incorrect program and reprogram it with the correct time. · If you had entered a past date, the timer recording will be performed on that date of the next year. · Additional programs may be entered by repeating steps 1-12.

If the power fails or the VCR is unplugged from the AC outlet, the correct clock time and timer settings are kept in memory for approximately 3 seconds. After 3 seconds, the clock and program timer must be reset when power is restored. Reset time according to instructions. Cable Users: If your cable hookup is via a TV converter box, you can program multiple recordings only on the converter box output channel. This is because the converter determines what channel you view through your VCR.

If you are finished programming and you want to set the VCR to record the programs you have entered. A) MAKE SURE YOU HAVE INSERTED A TAPE INTO THE VCR. B) YOU MUST TURN OFF THE VCR BEFORE IT WILL RECORD ANY TIMER PROGRAMS. (TIMER indicator lights). The VCR is now set to record the preset programs.

The VCR must be off for Timer Recording to work! You can stop timer recording by pressing POWER during timer recording. MAIN MENU CLOCK RECORDING PROGRAM TUNING SETUP SELECT ENTER TO EXIT PRESS CHECKING (ERASING) A TIMER PROGRAM Programming can be checked whenever the VCR is turned on. 1. Press MENU and the MAIN menu will appear. 2. Use D or E to choose the PROGRAM menu. Press ENTER and the PROGRAM menu will appear. PROGRAM MENU PROGRAM MONTH : DAY : START : STOP : CHANNEL : SPEED : REPEAT : 1 JULY 6 SUN 6:00 PM 7:30 PM 4 TV SP ONCE 3. Use F or G to select a program you want to check or erase. If you want to erase the program, press CLEAR.

TO ERASE PRESS TO EXIT PRESS 4. Press MENU to return to the TV screen. PROGRAM PRIORITY If the recording start and end times of preset programs overlap on the same day (see the example and diagram left), program number 2 will not be recorded until program number 1 is finished. The first part of program number 2 will not be recorded. The same thing will happen to program number 3. 7:00 PM 8:00 PM 9:00 PM 10:00 PM Prog No. 1 Prog No. 2 Prog No. 3 These portions will not be recorded. 28 INSTANT TIMER RECORDING Instant Timer Recording allows you to make a recording easily of a preset length without using the program timer.

power eject menu ch/trk enter ch/trk clear adj adj PREPARATION · Turn on the power of both the VCR and the TV. · Tune the TV to the VCR output channel (CH 3 or 4).



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· If a direct VIDEO/AUDIO connection is made between the VCR and the TV, set the TV's source selector to VIDEO. tv / vcr stop rew pause slow sp / slp rec / itr ff 1. Insert a video cassette with the safety tab in place.

2. Select the desired channel by using CH/TRK (/) or number (0-9). The channel number appears on the TV screen and indicator panel. · If you are recording from another source via audio/video input jacks (at the Rear or Front panel), select the LINE1 or LINE2. play cm skip EZ review input 3.

Set the TAPE SPEED option to desired speed (SP or SLP) by pressing SP/SLP. The tape speed will appear on the TV screen and indicator panel. 4. Press REC/ITR twice. The menu as illustrated, will appear on the TV screen. Recording will start (The TIMER indicator will light). 5. Press REC/ITR repeatedly to select the recording time length. At the end of recording the display will read 0H00, the VCR will stop recording and shut off. · During Instant Timer Recording, changing the channel on the VCR will not be possible.

· You can stop the recording by pressing STOP. RECORDING INSTANT TIMER RECORD MENU INSTANT TIMER RECORD CHANNEL SPEED START LENGTH 0H30M 2 CATV SP NOW 0H30M 1H00M 1H30M CHECKING THE RECORDING TIME Press REC/ITR once to check the recording time. The recalled setting will automatically return to the TV screen after 6 seconds. TO EXTEND THE RECORDING TIME The recording time can be extended anytime by pressing REC/ITR. Subsequent presses result in advancing the recording time by 30-minute increments. NOTES 0H00M 9H00M 8H30M Length Display (each press increases recording by 30 minutes) · If you press PAUSE during instant timer recording, the VCR will enter the normal recording mode. · If the VCR is set to "0H00M", the VCR goes to normal recording mode. 29 DUBBING AND EDITING If you wish to edit or dub your camcorder (or another VCR) recordings to this VCR, the rear (or Front) panel mounted Audio and Video (A/V) input jacks make the connections quick and easy. The direct A/V jacks will also provide better picture results than using the RF jack on the rear panel. Your VCR: Recording Another VCR: Play Camcorder: Play From AUDIO and VIDEO Output OR From AUDIO and VIDEO Output To AUDIO/VIDEO Input 1.

Connect the camcorder's (or another VCR's) A/V outputs to the VCR's front A/V inputs as illustrated above. RECORDING 2. Select the input channel "LINE2". · If you have connected your VCR to the A/V input jacks on the rear of VCR, you should select the input channel LINE1. · Select LINE1 or LINE2 A/V input channel using INPUT.

3. Play the tape in the camcorder (or another VCR). If you have a TV connected to your VCR, you can see the video playing. 4. When you desire recording to begin, press VCR's REC/ITR once to start.

NOTE Before recording, please confirm the recording start position. 30 EASY FUNCTIONS This page explains how to operate the easy functions. power eject EASY OPERATION If you press PLAY, FF, REW, EJECT or REC/ITR button when the power of this unit is off and a tape is inserted, the power turns on automatically and then the appropriate operation will begin as indicated below. Press PLAY FF REW EJECT REC/ITR Operation Power On Play back the tape Power On Fast-forward the tape Power On Rewind the tape Eject the tape Power Off Power On Enter pause record mode If a cassette with no safety tab is loaded, the cassette will be ejected automatically. menu ch/trk enter ch/trk clear adj adj tv / vcr stop rew pause slow sp / slp rec / itr ff play cm skip EZ review input EASY REVIEW You can replay a specified segment twice. 1. During playback, press and hold EZ REVIEW for more than 3 seconds at the end of the segment and your VCR will start reverse search. 2. Release EZ REVIEW at the beginning of the segment. The segment is replayed twice automatically.

To return to normal play, press EZ REVIEW again during easy review playback. SP CH 4 WABC STEREO EASY INFORMATION If the Extended Data Service (XDS) signals are provided along with normal TV signal in your area or during playback of a tape recorded with Extended Data Service (XDS) signals, the station ID, program title and program details are shown on the TV screen. When viewing a channel with Extended Data Service (XDS) signals, press ENTER button then the station ID will appear on the TV screen. Press ENTER button again and the program details will appear on the TV screen. When viewing a tape recorded with Extended Data Service (XDS) signals, press ENTER button twice then the program title and program details will appear on the TV screen. Program Details Length: Indicates the run length of a program. Time Remaining: Indicates the remaining time of a program. Rating: Indicates the rating of the current program (N/A, G, PG, PG-13, R, NC-17, X and Not Rated). The rating N/A means that the motion picture ratings are not applicable to this program. "Home video" JUL 5 , SAT 2:15 PM Easy Information Screen (Station ID) ADDITIONAL INFORMATION PROGRAM DETAILS "Home video" LENGTH 01:00 TIME REMAINING 00:26 RATING N/A Easy Information Screen (Program details) 31 VHS Hi-Fi STEREO SYSTEM/MTS BROADCAST

This VCR is equipped with the VHS Hi-Fi audio sound system for recording and playback.

The information below gives a brief description of Hi-Fi audio and how to record and play a tape in the Hi-Fi audio mode. To enjoy a Hi-Fi stereo system, connect your VCR's AUDIO (R/L)/VIDEO OUT jacks to the AUDIO (R/L)/VIDEO INPUT jacks on back your TV (or another A/V system) using A/V cables.

FUNCTION OSD : ON LANGUAGE SELECT:ENGLISH AUDIO MODE: HI-FI BROADCAST TYPE: STEREO AUDIO OUTPUT: STEREO CHANNEL MAPPING SELECT ADJUST TO EXIT PRESS PLAYBACK WITH Hi-Fi STEREO AUDIO SOUND A stereo TV with AUDIO/VIDEO input jacks or a stereo audio system is required for true stereo playback. To experience the full and rich stereo sound available with Hi-Fi recorded tapes, we recommend connecting your VCR to a home stereo audio system. FUNCTION OSD : ON LANGUAGE SELECT:ENGLISH AUDIO MODE: HI-FI BROADCAST TYPE: STEREO AUDIO OUTPUT: STEREO CHANNEL MAPPING 1.

Set the AUDIO MODE option to HI-FI on the SETUP menu. 2. Set the AUDIO OUTPUT option to STEREO position. (STEREO) POSITION: The left channel sound (L) is heard from the left speaker and the right channel sound (R) is heard from the right speaker. (LEFT) POSITION: The left channel sound (L) is heard from both speakers.

(RIGHT) POSITION: The right channel sound (R) is heard from both speakers. SELECT ADJUST TO EXIT PRESS 3. Insert a cassette and press PLAY. Adjust volume at your stereo system. ADDITIONAL INFORMATION 32 VHS Hi-Fi STEREO SYSTEM/MTS BROADCAST (Cont'd) MTS (Multi-Channel TV Sound) TV screen CH 4 STEREO/SAP The VCS342 VCR will decode MTS stereo and bilingual (SAP) off-the-air broadcast sound signals.



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It also decodes stereo TV sound from local cable companies, as long as they operate on assigned cable frequencies and use the EIA-recommended MTS stereo/bilingual TV sound system. MULTICHANNEL TV SOUND INDICATOR (MTS) Appears on the screen as illustrated on the left when ENTER is pressed. · One or both of the indicators will light, depending on the MTS broadcast. If only STEREO appears on the TV screen. The VCR can record in stereo onto the VHS Hi-Fi audio tracks when BROADCAST TYPE is in the STEREO position.

The VCR will also record mono audio onto the mono audio track. If only SAP appears on the TV screen. Set BROADCAST TYPE to SAP. If both the STEREO/SAP appear on the TV screen Use the BROADCAST TYPE option to select the desired recording mode (STEREO or SAP). STEREO Lights up when a stereo broadcast is being received. SAP Lights up when a SAP BILINGUAL broadcast is being received. SAP (Second Audio Program) RECORDING Some stations transmit a Second Audio Program, which is used for a second language or additional information. When the station broadcasts a Second Audio Program, follow the procedure below to record the SAP. 1. Insert a video cassette with the safety tab in place.

2. Set the BROADCAST TYPE option to SAP (SETUP menu). FUNCTION OSD : ON LANGUAGE SELECT: ENGLISH AUDIO MODE: HI-FI BROADCAST TYPE: SAP AUDIO OUTPUT: STEREO CHANNEL MAPPING Do this if only SAP appears on the TV screen or you know the program has SAP. ADDITIONAL INFORMATION SELECT ADJUST TO EXIT PRESS 3. Set the desired speed (SP or SLP) by pressing SP/SLP.

4. Select the desired channel. SAP should appear on the TV screen. 5. Press REC/ITR once.

You are now recording the program you see and hear on the TV. 6. Press STOP to stop recording. 33 TAPE COUNTER MEMORY FEATURE Indicator Panel TV Screen 2:15 AM REAL-TIME COUNTER Shows length of tape run in hours, minutes, and seconds (refer to the left). Press ENTER to select the real-time counter display. Each additional press of ENTER changes the counter display as shown left. · Counter changes to 0:00:00 when a cassette is ejected. · The real-time counter does not operate if nothing is recorded on the tape. · The real-time counter only works if a tape is in the VCR. CLOCK 0:05:25 COUNTER REM 1:07 REMAINING TIME COUNTER MEMORY FUNCTION power eject This is useful if there is a section of tape you want to view immediately after recording or if you want to return to the same point several times.

menu ch/trk enter ch/trk clear 1. Begin recording or playing a tape. 2. Press ENTER repeatedly to display the real-time counter on the TV screen. adj adj tv / vcr stop rew pause slow sp / slp rec / itr ff 3. At the point you want to locate later, reset the real-time counter to 0:00:00 by pressing CLEAR. play cm skip EZ review 4. Continue to play or record. 5. Press STOP when recording or playback finishes.

input 6. Press REW. The tape automatically stops when the tape counter returns to about "0:00:00". ADDITIONAL INFORMATION TAPE REMAINING Indicator Panel TV Screen REM 1:07 This function allows the time of the remaining tape to be displayed during recording or playback. Press ENTER repeatedly until the REM indicator appears during recording or playback.

NOTE The remaining tape length indicator may not be displayed correctly depending on the condition and type of tape (T-120, T-140, or T-160 etc) 34 EDITING A RECORDING 1. Press PLAY and watch the program until you reach the power eject exact point where you want the new recording to start. 2. Press PAUSE. menu ch/trk enter ch/trk clear 3.

Press REC/ITR once. The program material to be recorded will appear on the television. 4. When you wish to start recording, press PAUSE again. The new program material will directly follow the previously recorded material. This feature is especially helpful during camcorder-to-VCR dubbing use so each segment of the recording becomes a continuous program. adj adj tv / vcr stop rew pause slow sp / slp rec / itr ff play cm skip EZ review OPERATING HINTS · In manual recording, Timer recording, Instant Timer Recording, playback, or fast forward modes, the VCR automatically starts rewinding the tape when the end of the tape is reached. The cassette will rewind and stop at the beginning of the tape, be ejected, and the VCR will turn itself off. After you have finished using the VCR, rewind, eject, and remove the cassette. Place the cassette in its protective sleeve to protect it from dust.

It is not necessary to rewind the cassette before removing it, but if you do, it will be ready to play or record the next time you use it. Be sure the VCR Channel Selector is on the correct channel you wish to record. The channel that is being recorded can always be checked by tuning the television to the VCR channel (3 or 4) and pressing the TV/VCR selector to turn the VCR's VCR indicator on. Do not attempt to hook up more than one television set to the VCR for either recording or playback. · · · ADDITIONAL INFORMATION VIDEO HEAD CLEANING · · Whenever a video cassette is inserted into or ejected from this unit the video head is automatically cleaned. However, it is possible that the heads may become clogged when playing an old or damaged tape. If the image on your screen resembles the picture on the left while playing back a tape, the heads may require cleaning. To clean the heads, obtain a head cleaning tape from your local video dealer. Follows the instructions that come with the cleaning tape, as excessive use can shorten head life. · 35 TROUBLESHOOTING SYMPTOM Cassette cannot be inserted.

CHECKPOINT & POSSIBLE SOLUTION · Load cassette in direction indicated by arrow on cassette. · A cassette is already in the VCR. · Check if the VCR indicator panel is lit. If not, make sure power cord is plugged in. · If the indicator flashes, press POWER again. · Use TV/VCR to select the VCR mode. · Tune the television to the same channel selected on the VCR output channel select switch. (CH3 or CH4). · Adjust the Tuning Control on the television to obtain the best picture. · The cassette has had the safety tab removed.

Paste a piece of cellophane tape over the safety tab hole or use a different cassette. · Tune the television to the VCR channel (3 or 4) depending on the selected channel on the back of the VCR. (Output Channel). · Try a different cassette tape. · The heads may require cleaning. · Take VCR to a qualified Service Center for service. · Adjust fine tuning knob on television set to obtain best picture. · Adjust the tracking control. · Take VCR to Service Center for service. · Weak or dead batteries.

· Remote IR signal to sensor on VCR being blocked. · Reset time according to instructions.



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Power has been interrupted. No picture appears on TV screen. A picture appears on TV screen but is not clear. The VCR will not go into the recording mode, even when REC/ITR is pressed. No picture appears on television screen when PLAY is pressed. No picture, but audio is clear. Interference on playback picture. Remote does not work.

ADDITIONAL INFORMATION " - : - : - " appears on the indicator panel. VCR does not start at preset record starting time. · Set up recording time according to instructions. · Be sure the AM-PM setting on display is correct. · VCR must be turned off for Timer to work. · The cassette has had the safety tab removed. Stick a piece of cellophane tape over the safety tab hole or select a different cassette. · Insert a cassette. · The TV station sent the wrong XDS information. Use the Manual Clock Set procedure on page 20.

The tape is ejected in the timer mode. indicator flashes. The Auto Clock Setup procedure enters the wrong date and/or time. 36 SPECIFICATIONS GENERAL Head System Power Source Power Consumption Dimensions Operating Temperature Operating Humidity Timer Weight Tape Speed Four head helical scan azimuth system AC 120V, 60Hz Approx. 12 Watts 360 x 94.5 x 230 mm (14.3" x 3.8" x 9.2") 5 °C - 35 °C (41 °F - 95 °F) Less than 80% RH 12-hour display type with AM, PM Approx. 3.

2 kg (7 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) about 3 minutes (T-120) (WxHxD) (SP) (LP) (SLP) (SP) (SLP) 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 (Switchable) 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 (VCS342 only) Frequency Range Dynamic Range Channel Separation Conventional audio Input Output S/N Ratio Frequency Range 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 1.0 kohms More than 43 dB (SP mode) 200 Hz to 10kHz (SP mode) ADDITIONAL INFORMATION \* Designs and specifications are subject to change without notice.

\* Weight and dimensions shown are approximate. 37 ZENITH ELECTRONICS CORPORATION VCR LIMITED WARRANTY-USA Zenith will repair or replace your product, at Zenith's option, if it proves to be defective in material or workmanship under normal use, during the warranty period ("Warranty Period") listed below, effective from the date ("Date of Purchase") of original consumer purchase of the product. This warranty is good only to the original purchaser of the product and effective only when used in the United States, excluding U.S. Territories.

WARRANTY PERIOD: LABOR: 90 DAYS from the Date of Purchase. PARTS: ONE YEAR from the Date of Purchase. Repaired or Replacement Units are warranted for the remaining period of the original warranty. @@@@THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT ANY IMPLIED WARRANTY IS REQUIRED BY LAW, IT IS LIMITED IN DURATION TO THE EXPRESS WARRANTY PERIOD ABOVE. ZENITH WILL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, OR INCIDENTAL DAMAGES OF ANY KIND, INCLUDING LOST REVENUES OR PROFITS, IN CONNECTION WITH THE PRODUCT. SOME STATES DO NOT ALLOW LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THIS LIMITED WARRANTY DOES NOT APPLY TO: 1. Damages or operating problems that result from shipping, installation, adjustment of user controls, calibration, maintenance or failure to maintain, or separate system components; and 2. Damages or operating problems that result from normal wear and tear, misuse, abuse, operation outside environmental specifications or contrary to the requirements or precautions in the Operating Guide, accident, lightning strikes or other natural causes, unauthorized modification or alteration, incorrect electrical current or voltage, software errors that do not disable functionality, operating software protocols adopted after the date of manufacture or for outside the U.S., institutional or commercial use, or other causes not arising out of defect in material or workmanship. 3. Therefore, the cost of repair or replacement of such a defective product shall be borne by the consumer. CUSTOMER INTER-ACTIVE CENTER NUMBERS: Call 1-800-984-9349 (Monday ~ Friday, 7 AM ~ 7 PM CT) For Warranty Service Retain your dated sales receipt to prove the Date of Purchase as well as your box for shipping the unit to Zenith, for warranty service.

Legible copy of your sales receipt must be submitted with the unit at the time the unit is returned for warranty service. For Post Warranty Repair For repair or replacement after the Warranty Period has expired, Call 1-800-984-9349 (Monday ~ Friday, 7 AM ~ 7 PM CT) For Where-to buy, Product Assistance, or Customer Assistance Call 1-877-9 Zenith (1-877-993-6484) (Monday ~ Friday, 7 AM ~ 8 PM CT and Saturday, 8 AM ~ 5 PM CT) and select an appropriate option from the menu. Or visit our website at <http://www.zenithservice.com> FOR WARRANTY SERVICE: You must call 1-800-984-9349 (Monday ~ Friday, 7 AM to 8 PM CT) and select appropriate option from the menu to confirm the product is defective and to obtain Return Authorization (RA). During the Warranty Period, Zenith will send you a return-shipping label. After you obtain RA for return, please box your unit with a copy of the sales receipt and enough packing material to ensure undamaged delivery of your product. When you receive the label, place it on the box and call the 800 # in the instruction for pick-up. When your unit is received, Zenith will repair or replace your unit in accordance with this Limited Warranty. ADVANCE SHIPMENT. If replacement unit is available and you want second day delivery, our service representative will ask for your credit card number. Zenith requires a reserved deposit by credit card as surety for such advance shipment. Your credit card will not be charged if you return the defective unit in 10 business days. For advance shipment, the return label will come with the replacement unit sent to you. Please follow boxing and shipping instructions above. ZENITH ELECTRONICS CORPORATION 2000 MILLBROOK DRIVE LINCOLNSHIRE, IL 60069 Zenith Part No. 206-3868 GS# 3834RM0057T Printed in Indonesia Issue O .



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