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You can read the recommendations in the user guide, the technical guide or the installation guide for ZENITH H27E35DT. You'll find the answers to all your questions on the ZENITH H27E35DT in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ZENITH H27E35DT
User guide ZENITH H27E35DT
Operating instructions ZENITH H27E35DT
Instructions for use ZENITH H27E35DT
Instruction manual ZENITH H27E35DT

The image shows the front cover of a service manual for Zenith H27E35DT. At the top left is the Zenith logo, which consists of the word "zenith" in a lowercase sans-serif font followed by a stylized red lightning bolt. Below the logo, the title "SERVICE MANUAL" is printed in a bold, uppercase font. To the right of the title, there is a section labeled "Model Series:" followed by a list of model numbers: H20E35DT, HPK20E35DT, HW20E35DT, H25E34Y, H25E35DT, HW25E35DT, H25E39Y, H27E35DT, HPK27E35DT, H27E35S, H27E35DTB, H27E35S8, and H32E35DT. Below the title and model list, there is a box containing technical specifications: Product Type: Commercial Directview TV, Chassis: CL, Manual Series: SR24, Manual Part #: 923-03508, Model Line: E, and Product Year: 2002. At the bottom of the cover, there is a "CONTENTS" section with a list of topics and page numbers: Overview (1), Service Menu (2), Servicing (3), Parts (4), Diagrams (5), and Schematics (6). At the very bottom, there is publication information: "Published October 2002 by Technical Publications Zenith Electronics Corporation 201 James Record Road Huntsville, Alabama 35824-1513" and a copyright notice: "Copyright © 2002 by Zenith Electronics Corporation". A small note "Printed in U.S.A." is located at the bottom left corner of the cover.



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Manual abstract:

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3 Parts

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... 5 Schematics

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.... @@@@Special components are also used to prevent x-radiation, shock and fire hazard. These components are indicated by the letter "x" included in their component designators and are required to maintain safe performance. No deviations are allowed without prior approval by Zenith Electronics Corporation. Circuit diagrams may occasionally differ from the actual circuit used. This way, implementation of the latest safety and performance improvement changes into the set is not delayed until the new service literature is printed. Caution: Do not attempt to modify this product in any way.

Never perform customized installations without manufacturer's approval. Unauthorized modifications will not only void the warranty, but may lead to property damage or user injury. Service work should be performed only after you are thoroughly familiar with these safety checks and servicing guidelines. GRAPHIC SYMBOLS The exclamation point within an equilateral triangle is intended to alert the service personnel to important safety information in the service literature. The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the service personnel to the presence of non-insulated "dangerous voltage" that may be of sufficient magnitude to constitute a risk of electric shock. The pictorial representation of a fuse and its rating within an equilateral triangle is intended to convey to the service personnel the following fuse replacement caution notice: CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ALL FUSES WITH THE SAME TYPE AND RATING AS MARKED NEAR EACH FUSE. SERVICE INFORMATION While servicing, use an isolation transformer for protection from AC line shock. After the original service problem has been corrected, make a check of the following: FIRE AND SHOCK HAZARD 1. Be sure that all components are positioned to avoid a possibility of adjacent component shorts. This is especially important on items transported to and from the repair shop. 2. Verify that all protective devices as such as insulators, barriers, covers, shields, strain reliefs, power supply cords, and other hardware have been reinstalled per the original design. Be sure that the safety purpose of the polarized line plug has not been defeated. 3. Soldering must be inspected to discover possible cold solder joints, solder splashes, or sharp solder points. Be certain to remove all loose foreign particles. 4. Check for physical evidence of damage or deterioration to parts and components, for frayed leads or damaged insulation (including the AC cord), and replace if necessary. 5. No lead or component should touch a receiving tube or a resistor rated at 1 watt or more. Lead tension around protruding metal surfaces must be avoided. 6. After re-assembly of the set, always perform an AC leakage test on all exposed metallic

parts of the cabinet (the channel selector knobs, antenna terminals, handle and screws) to be sure that set is safe to operate without danger of electrical shock. **DO NOT USE A LINE ISOLATION TRANSFORMER DURING THIS TEST.** Use an AC voltmeter having 5000 ohm, 10 watt resistor, paralleled by a .15 mfd 150V AC type capacitor between a known good earth ground (water pipe, conduit, etc.) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of 1500 ohm resistor and .15 mfd capacitor. Reverse the AC plug by using a non-polarized adaptor and repeat AC voltage measures for each exposed metallic part.

Voltage measured must not exceed 0.75 volts RMS. This corresponds to 0.5 milliamp AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately. A.C. Voltmeter 0.15uF Good Earth Ground such as the Water Pipe, Conduit, etc. 1500 OHM Place this probe on each exposed metal part.

10 WATT X-RADIATION 1.Be sure procedures and instructions to all service personnel cover the subject of x-radiation. The only potential source of x-rays in current TV receivers is the picture tube. However, this tube does not emit x-rays when the HV is at the factory-specified level. The proper value is given on the applicable schematic.

Operation at higher voltages may cause a failure of the picture tube or high-voltage supply and, under certain circumstances, may produce radiation in excess of desirable levels. 2.Only factory-specified CRT anode connectors must be used. 3.It is essential that the service personnel have available an accurate and reliable high-voltage meter 4.

When the high-voltage circuitry is operating properly, there is no possibility of an x-radiation problem. Every time a color chassis is serviced, the brightness should be run up and down while monitoring the high voltage with a meter, to be certain that the high voltage does not exceed the specified value and that it is regulating correctly. 5.When troubleshooting and making test measurements in a product with a problem of excessively high voltage, avoid being unnecessarily close the picture tube and the high voltage power supply. Do not operate the product longer than necessary to locate the cause of excessive voltage. 6.Refer to HV, B+, and shutdown adjustment procedures described in the appropriate schematics and diagrams (where used). **IMPLOSION** 1.All direct view picture tubes are equipped with an integral implosion protection system; take care to avoid damage during installation. 2.

Use only the recommended factory replacement tubes. **TIPS ON PROPER INSTALLATION** 1.Never install any receiver in a closed-in recess, cubbyhole, or closely fitting shelf space over, or close to, a heat duct, or in the path of heated air flow. 2.Avoid conditions of high humidity such as: outdoor patio installations where dew is a factor, near steam radiators where steam leakage is a factor, etc. 3.Avoid placement where draperies may obstruct venting. The customer should also avoid the use of decorative scarves or other coverings that might obstruct ventilation. 4.Wall and shelf-mounted installations using a commercial mounting kit must follow the factory-approved mounting instructions.

A product mounted to a shelf or platform must retain its original feet (or the equivalent thickness in spacers) to provide adequate air flow across the bottom. Bolts or screws used for fasteners must not touch any parts or wiring. Perform leakage tests on customized installations. 5.Caution customers against mounting a product on a sloping shelf or in a titled position, unless the receiver is properly secured.

6.A product on a roll-about cart should be stable in its mounting to the cart. Caution the customer on the hazards of trying to roll a cart with small casters across thresholds or deep pile carpets. 7.Caution customers against using a cart or stand that has not been listed by Underwriters Laboratories, Inc. for use with its specific model of television receiver or generically approved for use with TVs of the same or larger screen size 8.Caution customers against using extension cords. Explain that a forest of extensions, sprouting from a single outlet, can lead to disastrous consequences to home and family.



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*..... 3-7 SR24 - 923-03508 TOC-1 CL - TOC - TOC-2 - SECTION 1 OVERVIEW JP1 Q5102 4E9 CRT1 TX3204 IC2100 IC801 IC2900 IC800 2F5 Q5103
5C2 QX3251 IC4201 5F2 Q5101 2H4 IC1400 QX3203 CON4H2 3Y3 TU240 ICX2200 CX3608 4G9 MPI CON1 3T8 CX3610 ICX3801 1E11 TX3601
ICX3612 LX3401 2C5 CON2 2E6 IC6000 1 IC6001 CON3R8 CX3612 LX3880 2K6 6E2 10VGA1 1 11E1 1 OVERVIEW This manual covers the CL Chassis*

Commercial Sets which are similar to the CH Chassis sets.

All suffix 35 models have stereo, surround, MPI, and super video in/out ports. The CL series chassis features seven ICs for all signal, sync, and sweep processing. ICX2200 - Audio/video, sync and sweep drive processing. IC6000 - Main microprocessor. It is tied directly to the keyboard and the infrared detector.

IC6001 - System memory. IC2100 - Vertical sweep amplifier. IC2900 - Video switch. ICX3612 - Power supply. This is a switching type supply powered by a bridge rectifier circuit.

At turn on, voltages for the vertical and video output circuit are derived from the sweep circuit. IC1400 - Stereo audio processing. E-Line CL Chassis Model Information MODEL H20E35DT HPK20E35DT HW20E35DT H25E34Y H25E35DT H25E39Y HW25E35DT H27E35DT H27E35S H27E35S8 HPK27E35DT H27E35DT8 H32E35DT SCR 20 20 20 25 25 25 27 27 27 27 27 32 JACKS 4 4 4 3 4 3 4 4 4 4 4 4 4 AUDIO MTS/SAP MTS/SAP MTS/SAP Mono MTS/SAP Mono MTS/SAP MTS/SAP MTS/SAP MTS/SAP MTS/SAP MTS/SAP MTS/SAP MTS/SAP MTS/SAP EXTRA FEATURES MODULE LEVEL REPAIR ONLY SuperPort Slot, MPI Card SuperPort Slot, MPI Card SuperPort Slot, MPI Card SuperPort Slot, MPI Card SuperPort Slot, MPI Card SuperPort Slot SuperPort Slot, MPI Card SuperPort Slot, MPI Card SuperPort Slot, MPI Card SuperPort Slot, MPI Card SuperPort Slot, MPI Card REMOTE 124-00213-03A N/A N/A 124-00213-18 124-213-03A 124-00213-18 N/A 124-00213-18 124-00213-18 124-00213-18 N/A 124-00213-18 124-00213-18 MICRO 221-01390-P06 221-01390-P06 221-01390-P06 221-01390-P06 221-01390-P06 221-01390-P06 221-01390-P06 221-01390-P06 221-01390-P06 221-01390-P06 221-01390-P06 221-01390-P06 OP GUIDE 206-03749 N/A N/A 206-03743 206-03749 206-03745 N/A 206-03751 206-03751 206-03751 N/A 206-03751 206-03751 SR24 - 923-03508 1-1 CL - OVERVIEW OVERVIEW INTERFACES CAMPORT Some models have video and right/left audio input jacks at the front of the receiver. These jacks can be used to view video tapes from a VCR or Camcorder. When the video

cable is plugged into the jack, the shorting jumper J1 opens, placing a high at pin 10 of the IC6000 microprocessor. This switches the TV into the auxiliary mode. As long as the cables are attached, the TV set will be locked in auxiliary mode. Use of a remote control or buttons on the front of the set will not permit switching into tuner mode until the video cable is disconnected. SUPERPORT - MPI Zenith Commercial Product receivers are now being adapted to interact with other equipment.



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Prime examples of this can be found in Lodging and Health Care situations where the set is controlled from the main office.

All this is made possible by the new technology that is being built into these receivers. The SuperPort and Multiple Protocol Interface (MPI) jack and associated circuitry allow remote control of the set. MULTIPLE PROTOCOL INTERFACE Television functions and features are controlled by the communication of commands and status information through a Superport by the MPI interface. EBC (EDGE BOARD CONNECTOR) Allows easy access for removing/installing accessory modules providing a rail mounted slide-through card. These cards might contain one of the above features. CONNECTION CENTER ON BACK OF TV The connection on the back of the TV contains the input and output interfaces. SR24 - 923-03508 1-2 CL - OVERVIEW OVERVIEW CONNECTION CENTER ON BACK OF TV The connection center on the rear of the TV allows for connection of the viewing source. The diagrams list the use of each jack on the connection center. 1. ANTENNA/CABLE JACK Use the jack for 75-ohm antenna-type signal connections to the TV. Attach antenna, cable TV line, or other video equipment to jack. The input cable may come from an outdoor or master antenna, cable TV line, cable decoder box, or the RF output from a VCR. 2. SUPERPORT LOCATION Provides for easy installation of local service provider accessory module without removing the cabinet back. Module is housed inside the TV cabinet and receives operating power and all necessary interface signals through internal connections. 3. MPI (MULTIPLE PROTOCOL INTERFACE) JACK Standard RJ11 jack to provide interface with in-room entertainment and video services. Also used with installer's programmer (page 1-5) for programming other TVs in the system with the same features as the master TV. 4. VIDEO IN AND AUDIO IN Use the Video and Audio In jacks for baseband video and audio input signals from a VCR or other signal source. 5. MATRIX SPEAKER OUT Use this jack for connection of an 8-ohm extension speaker to get television sound at a remote location. The speaker in the TV remains active, while a monaural audio output is heard from the remote speaker. 6. EBC KNOB For handling/removal of EBC (Edge Board Card). 1 1 ANTENNA CABLE ANTENNA CABLE 6 M. P. I. 6 VIDEO IN MATRIX OUT M. P.

I. VIDEO IN SPEAKER OUT 5 AUDIO IN R-- AUDIO IN --L 5 2 3 4 2 3 4 Used on HXXX35DT Models Used on H25E34Y Models 1 ANTENNA CABLE 6 VIDEO IN SPEAKER OUT 5 AUDIO IN 2 4 Used on H25E39Y SR24 - 923-03508 1-3 CL - OVERVIEW OVERVIEW POWER Press to turn TV ON or OFF CC Press to access closed captions. *TV/FM Press to alternate between TV or FM operating mode VOLUME Press left to reduce or right to increase volume level of TV. NUMBERED BUTTONS Press repeatedly to select desired menu. CC MUTE Press to turn off sound while picture remains. Press again to restore sound. FLSHBK Press to return to last TV channel you were watching. CHANNEL Up/Down Press to select a TV channel by going up/down through channels programmed in the TV memory. ENTER Press to view Channel/Time Display or to remove any on-screen menu or display in TV mode. Press to view the Music menu (active station) listing in FM mode.

ALARM TIMER Press to activate SLEEP TIMER. ALARM Press to turn wake-up alarm ON or OFF. CH PREV Displays on-screen, preprogrammed directory of station and network affiliations when in TV mode. SC652Z 124-00213-18 SC692 124-00213-03A *TV/FM: This key is not available in model 124-00213-18 SR24 - 923-03508 1-4 CL - OVERVIEW OVERVIEW Connect cable to TV MPI Jack and follow on-screen instructions Status Indicator MPI Reset Color green red battery OK battery low Blink pattern slow power on no communications heart beat power on communications OK NOTE: A slowly flashing green light indicates there is a problem with the communications between TV and programmer. In this case, check for damaged cable, poor contacts, or other connection problems.

If the status indicator is red, the programmer batteries are low. If communications are good, the sign-on screen will be displayed on the TV screen as shown on the quick setup instructions. If the intention is to set the TV's or programmer's real-time clocks, and not the clone clock or TV clock time settings, then press a key to proceed to the main clone menu. If a previously stored TV setup is in a particular clone memory, it may be changed if desired by overwriting it with a new setup. There is no need for a separated memory clear operation.

Setups stored in programmer memory are nonvolatile and will be retained even after a battery change. LEARN FROM TV Select "Learn From TV" then press ON/OFF, POWER, or ENTER to begin learning process. Alternatively, use the TV front panel CHANNEL UP or CHANNEL DOWN keys to highlight choice. Press ON/OFF, POWER, or ENTER to activate. The next screen will allow a choice of four available memories to store this TV setup. Four different TV setups can be stored in the LT2000. Using the On-screen menu, choose a memory or choose to return to the main selection menu. Now press ON/OFF, POWER, or ENTER to activate your selection. The next screen allows one last opportunity to check the versions of TV and clone setups. Press ON/OFF or POWER to activate the learning cycle, or press any other keys to return to the selection menu to make another choices.

Once a process has begun, the TV screen will display "LEARNING IN PROGRESS". Please wait for the process to complete. When the TV screen displays "LEARNING COMPLETED", press any key to end the learning process and return to the clone selection menu. WRITE TO TV Select "WRITE TO TV", and then press ON/OFF, POWER, or ENTER to begin teaching process. Alternatively, use the TV front panel CHANNEL UP or DOWN keys to highlight the choice and then press ON/OFF, POWER, or ENTER to activate. The next screen displays a choice of the four available memories that can be copied to the TV. Select the desired memory number, and press ON/OFF, POWER, or ENTER to begin the teaching process. Alternatively, use the TV front panel CHANNEL UP or DOWN keys to highlight choice. Press ON/OFF, POWER, or ENTER to begin. QuickSet II Programmer LT2000 ZENITH ELECTRONICS CORPORATION, GLENVIEW, ILLINOIS USA LT-2000 CLONE PROGRAMMER The Quick Set II programmer LT2000 allows custom setup and programming information to be quickly copied from a master TV into multiple television sets.

Once learned from the master, setup data is retained in the LT2000 for future use and recall. When using the LT2000, operation will be easier if the TV is connected to a good quality signal and is displaying a stable picture. To operate the LT2000, use the indicated keys on an installer's remote or user's remote, or the front panel keys on the TV receiver. SETUP Begin the programming process by setting up a master TV set using one of the installer's remotes or an MBR remote.



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Follow the instructions in the operating guide for the specific TV model.

Remember to set all features that will be customized including the channel scan list, channel labels, and installer menu setups. Next connect the LT2000 to the master TV set using the cable provided with the programmer. Connect the cable between the MPI jack on the TV and the programmer. The TV set automatically activates the programmer. Once connected, check the "Status Indicator" LED on the programmer.

If the indicator is green and flashing (a doubleblink "heartbeat" pattern), proceed to the next step. SR24 - 923-03508 1-5 CL - OVERVIEW OVERVIEW Using the on-screen menu, select a memory or return to the main selection menu. Then press ON/OFF, POWER, or ENTER to activate the selection. The next screen allows for one last opportunity to check the versions of TV and clone setups. Press ON/OFF or POWER to activate the teaching cycle, or any other key to return to the selection menu to make other choices. Once a process has begun, the TV screen will display the "TEACHING IN PROGRESS" message. Please wait for the process to complete. When the TV screen displays "TEACHING COMPLETED", press any key to end the teaching process and return to the clone selection menu. SET CLONE CLOCK FROM TV To set the real-time clock in the LT2000, select "SET CLONE FROM TV" and then press ON/OFF, POWER, or ENTER to copy current TV time to the clone clock. Alternatively, use the TV front panel CHANNEL UP or CHANNEL DOWN keys to highlight the choice.

Then press ON/OFF, POWER, or ENTER to activate. This process will return the LT2000 to the sign-on screen to display the clone and TV clock settings. Press a key to go to the clone selection menu and perform other functions, or simply disconnect if the time setting was the last task. SET TV CLOCK FROM CLONE To set the real time clock in the, select "SET TV CLOCK FROM CLONE" and then press ON/OFF, POWER, or ENTER to copy current LT2000 time to the TV clock. Alternatively, use the TV front panel CHANNEL UP or CHANNEL DOWN keys to highlight the choice. Then press ON/OFF, POWER, or ENTER to activate. This process will return the LT2000 to the sign-on screen to display the clone and TV clock settings. Press a key to go to the clone selection menu and perform other functions, or simply disconnect if the time setting was the last task. DISPLAY TV SETUP Select "DISPLAY TV SETUP", and then press ON/OFF, POWER, or ENTER to begin the teaching process. Alternatively, use the TV front panel CHANNEL UP or CHANNEL DOWN keys to highlight your choice.

Then press ON/OFF, POWER, or ENTER. The TV screen will display the items in the service menu setups. Use this function to quickly check the TV for correct setup. Press any key to clear display and return to the clone selection menu. DISPLAY CLONE SETUP Select "DISPLAY CLONE SETUP" and then press ON/OFF, POWER, or ENTER to begin the teaching process.

Alternatively, use the TV front panel CHANNEL UP or CHANNEL DOWN keys to highlight the choice, then press ON/OFF, POWER, or ENTER to begin. The TV screen will display the memory selection menu. Select the desired memory number, and then press ON/OFF, POWER, or ENTER to display the contents of the selected memory. Alternatively, use the TV's CHANNEL UP or CHANNEL DOWN keys to highlight the choice, then press ON/OFF, POWER, or ENTER to begin. The TV screen will display items in the factory menu setup.

Use this function to quickly check contents of a particular clone memory for correct setup. Press any key to clear the display and return to the clone selection menu. Note: The following two items only appear on sets that do not have the built-in ability to clone channel labels. EDIT CHANNEL LABELS Select the edit channel labels option and push ON/OFF, Power, or Enter. Select the memory location (1,2,3,4) and edit. VOL L/R CH U/D MUTE ENTER POWER Selects update label Selects label to be changed Clears present setting Loads new labels Exits the menu SEND CHANNEL LABELS Select the send channel labels option and push ON/OFF, Power, or Enter. Select the memory location (1,2,3,4) and push ON/ OFF. A message will indicate that is doing the copy and when it is finished. OPERATION NOTES Disconnect the LT2000 from the TV set when the desired task has been completed. Disconnecting the clone automatically switches it off.

The real time clock continues to run when the main circuits are switched off. After replacing exhausted batteries, or if the programmer behaves strangely after a static shock, use a paper clip or similar instrument inserted through the small hole marked "RESET" to activate the internal reset switch and restore normal operation. After reset, check the real-time clock setting. It may be necessary to reset the clock from a TV programmed to the correct time. The specific microprocessor used in any TV set may be determined by activating the service menu. The microprocessor part number appears at the top of the screen with the service menu is activated. Processors before the 221-01006 have a limited screen display capability. They cannot display entire screens as shown in the quick setup instructions accompanying the LT2000 programmer. Use the printed menu illustrations on the quick setup sheet as an aid in making programming choices. SR24 - 923-03508 1-6 CL - OVERVIEW USER MENUS SECTION 3 finished, press ENTER to close the menu.

CH LABELS (CHANNEL LABELS) Press the MENU key on the remote so that the SETUP MENU reappears. Use the Up Arrow to choose the CH LABELS option. Pressing either the Right/Left arrow repeatedly, pick the label you want from the list of available selections shown in the chart. Select other channels, and when you are finished, press ENTER to remove the menu. You also has the option of creating 20 programmable labels having five digits each.

CLOCK SET Press MENU repeatedly to show the Setup menu. Use the Up Arrow to highlight Clock Set. Set the current time; use the Number keypad to enter the hours, then minutes. For example, enter 06, then 30, to set 6:30 on the clock. Use the TIMER key to specify AM or PM.

Press ENTER to start the clock and return to TV viewing. CAPTIONS CAPTION is a feature that allows the TV to receive closed captions and/or text options when made available by the broadcaster. There are two operating modes for caption: quick/mute and standard: If quick mute is selected, pressing the cc key shows the current cc selection. SETUP MENU Press the MENU key on the Installer's remote repeatedly so that the SETUP MENU appears on the screen.

SETUP MENU AUTO PROGRAM ADD/DEL/BLNK CH. LABELS CLOCK SET CAPTIONS LANGUAGE TO PROGRAM AUTO PROGRAM Using the Up Arrow on the remote control, highlight AUTO PROGRAM on the screen. Then press a RIGHT/LEFT Adjust arrow button to reach the AUTO PROGRAM screen. Using the Up Arrow, choose either CABLE TV or OFF-AIR ANTENNA. Press a RIGHT or LEFT ADJUST arrow to begin the Channel Search.



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The receiver searches for available channels and stores them in memory for user access.

ADD/DEL/BLNK Press the Up Arrow repeatedly to highlight the ADD/DEL/BLNK option. Use the remote to select a channel. ADD/DELETE allows tailoring of the channel scan to eliminate unwanted channels and add desired channels that were not stored during Auto Programming. Use the number keypad and ENTER to add a deleted channel. Using the Right/Left arrows, pick whether a channel is Added, Deleted, or Blank. Blank is used by hospitals and institutions to send music or informational messages to an unused channel. When BLNK is selected, screen will be black while audio continues. Select any other channels to be changed, and when CAPTION SETUP OPER.MODE SEL. CC STANDARD TYPE CAPTION LOCK Press select to choose Press Adj to choose CHANNEL LABELS A&E ABC ACTS ADC AMC BCC BET BRAV CA CBC CBN CBS Note: CMTV CNBC CNN COM CSPN CSP2 CTN CTV DIS DISC E! ENC ESPN ESP2 ET EWTN FAM FNN FOX F&V FX GALA HBO HN HSE HSN IC INSP JCN LIFE MAX ME/U MMT MTV NBC NICK NOS PBS PLAY PTL QVC RDS REQ SC SCFI SHOW SIN TBS TBN TELE TLC TMC TNN TNT TRAV TSN TVA TWC UPN USA VC VCR VH-1 VISN VJN WB WGN WTBS WWOR YTV ---None Selecting this label option means the channel will not be displayed on the channel/time/audio signal display.

Selecting the none option means the channel will not have a label. SR24 - 923-03508 1-7 CL - OVERVIEW USER MENUS Use the Right/Left arrows to choose any of the following options: CAPTION 1, CAPTION 2, CAPTION 3, CAPTION 4, TEXT 1, TEXT 2, TEXT 3, or TEXT 4. Press ENTER to close the menu. LANGUAGE In the Language menu, use the Right/Left arrow to choose one of the following options: English, Spanish, or French. Press ENTER to return to TV viewing.

VIDEO MENU Press MENU repeatedly until the Video Menu appears. Your options are: · · AUDIO MENU Press MENU repeatedly on the remote control until the AUDIO MENU appears. · · AUDIO MENU BASS TREBLE BALANCE AUDIO MODE FRONT SURR SOUNDRIE AUDIO PREF STEREO OFF OFF CUSTOM · · CONTRAST: Adjusts the contrast of the picture (difference between white and black). Has 64 steps (0 to 63). BRIGHTNESS: Adjusts the brightness of the picture (amount of white).

Has 64 steps (0 to 63). COLOR: Adjusts the intensity of the color. Has 64 steps (0 to 63). TINT: Adjusts the tint of the color picture (balances between amounts of red and green in the TV picture). Has 64 steps (0 to 63). SHARPNESS: Raises or lowers the definition of the TV picture. The lower the level, the softer the images will appear (adjusts the sharpness of the picture). Has 64 steps (0 to 63). PICTURE PREF: Has two settings; PRESET and CUSTOM. In the Custom mode the brightness, contrast, color and tint can be set to a users particular liking.

The preset settings brings up the factory setting for these controls. Preset is selected automatically after an AC power interrupt. VIDEO MENU Using the Up Arrow on the remote control, highlight the setting you want to change. Choose from: BASS: Adjusts the amount of Bass (low frequency level) in the sound. Has 15 steps (0 to 14) · TREBLE: Adjusts the amount of Treble (High frequency Level) in the sound. Has 15 steps (0 to 14) · BALANCE: Adjusts the balance of sound between the left and right speakers. Has 29 steps (0 to 28). · AUDIO MODE: Selects between stereo, Mono, Stereo and 2nd Audio/SAP. If 2nd Audio/SAP is selected, but the current channel does not support SAP either Stereo or Mono will be heard. · FRONT SURR: The Front Surround effect can only be heard when the Audio Mode has been set to 'Stereo' and a Stereo signal is present.

· SOUNDRIE: Used to obtain a uniform volume level, particularly while changing channels. · AUDIO PREF: This feature allows the customer to maintain two separate audio settings by selecting "custom" or "preset". The Factory gets the "Preset" setting and the customer sets "custom". Press a RIGHT/LEFT ADJ arrow to adjust or change the option you have selected. Press ENTER to return to TV viewing, or press the Up Arrow to adjust another option.

· CONTRAST BRIGHTNESS COLOR TINT SHARPNESS PICTURE PREF PRESET Use the Up Arrow on the remote control to highlight the setting you want to change. Press Right/Left arrow to adjust or change the option you have selected. Press ENTER to return to TV viewing, or press the Up Arrow to change other options in the video menu. PARENTAL CONTROL This optional feature can be used to prevent (block) unwanted programming from appearing on your TV. PARENTAL CONTROL offers the user a wide variety of options and settings that restrict or block programming that can appear on the TV.

PARENTAL CONTROL allows users the capability of defining which program ratings they consider acceptable to younger or more sensitive viewers. SR24 - 923-03508 1-8 CL - OVERVIEW USER MENUS PARENTAL CONTROL can be preset and turned on or off by a user who specifies the 4 number password. The number of hours blocked must also be specified. General audience and children viewer blocks can both be programmed into the TV's memory. Viewer ratings are specified for both the TV industry and the motion picture industry; both rating systems can be used. The ratings are based mainly on children's ages. Don't forget the password, as it is the only way you can access the PARENTAL CONTROL menu and change rating selections or turn PARENTAL CONTROL off. If you do not want PARENTAL CONTROL to be active all the time, you can turn it on or off with the LOCK ON/OFF option. Notes: · You can set different PARENTAL CONTROL viewing restrictions for general audiences and for children - - both can be active at the same time. · Simply specifying one content block such as Sex Scenes, will not automatically block another type of content in the programs from appearing.

· Even if you choose to leave the AUX INPUTS unblocked, the ratings you specify will automatically restrict the programming that appears from the video sources. · You cannot disable PARENTAL CONTROL by disconnecting the TV from power. Block hours will automatically reset to the original block time setting specified if power is disconnected. · To reset the password, use the installer's remote control to deactivate the V-Chip in the Installer's menu (#53). Exit out of the Installer's Menu after deactivating the Parental Control. Then enter back in and reactivate the V-Chip. PARENTAL CONTROL AUX SOURCES MPAA RATING AGE BLOCK CONTENT BLOCK SET HOURS SET PASSWORD LOCK ON OFF TO BLOCK OVERVIEW To ensure complete coverage for all TV programs (movies and regular TV shows), choose ratings from the Motion Picture Association of America (MPAA) Rating System chart and the TV Parental Guidelines Rating System chart (both shown on the next page). Use the AGE BLOCK option for General Audiences and for Children.



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You can also add additional restrictions from the CONTENT BLOCK menu. Things to Consider before Setting Up Parental Control: Determine which ratings you consider acceptable for viewing.

(For example, if you choose TV-PG, all of the more restrictive ratings will be blocked automatically: the viewer will not be able to see TV-PG, TV-14, or TV-MA rated programming.) Select whether auxiliary video sources will be blocked in the AUX SOURCES block option. (Blocks signals from VCRs, DVD players, etc. connected to the TV Audio/Video input jacks). You could also leave AUX SOURCES unblocked, and then choose allowable ratings.

In the CONTENT BLK option, you can block program Content based on individual parameters such as Strong Dialog, Bad Language, Sex Scenes, Violence Scenes, or Fantasy Violence Scenes. You can set PARENTAL CONTROL to be active in the SET HOURS option for up to 12 hours. Use the number keys on the remote to select a secret password in the SET PASSWORD option. With the PARENTAL CONTROL menu on-screen, use the Up Arrow to choose an option, such as CONTENT BLOCK. Use the Left/ Right arrow to show the CONTENT BLOCK menu, to adjust or set the rating for an option.

To block sex scenes, for example, use the "TV-PG and above" setting. To block dialog, use LEFT/RIGHT ADJ arrows to select among UNBLOCKED, TV-PG and above, or TV-14. (See the Ratings Charts for rating meanings.) After you have selected and adjusted the PARENTAL CONTROL menu options to your preferences: - Set the number of hours Parental Control will be on. - Set a 4 number password. - Set the Lock On/Off option to either on or off. ON-SCREEN DISPLAYS CHANNEL/TIME/AUDIO DISPLAY Press ENTER. Shows currently selected channel or source, current time if the clock has been set, and incoming audio signal. CH PREVIEW MENU Press SURF. Displays list of the available TV Channels, Guest Parental Control menu (if active) and Video Channel access.

SR24 - 923-03508 1-9 CL - OVERVIEW USER MENUS Press CHANNEL UP/DOWN to select a channel, then ENTER to go to that channel. Pressing CC will activate the Parental Control menu. CAPTIONS DISPLAY Press CC. Sets and displays the Caption/Text options. See the Captions section on page 1-7.

CHANNEL PREVIEW 2 3 4 5 6 7 8 9 10 NBC NONE PBS NONE CBS ABC NONE NONE NONE cc CAPTIONS OFF CH / TO SELECT, ENTER TO QUIT CC FOR PARENTAL CONTROL MOTION PICTURE ASSOCIATION OF AMERICA (MPAA) RATING SYSTEM G PG PG-13 R NC-17 X Note: General Audiences Parental Guidance Suggested Parental Guidance Suggested Restricted viewing Restricted Viewing Hard Core Films Content not offensive to most viewers. Content is such that parents may not want their children to view the program. Program is inappropriate for preteens, with a greater degree of offensive material than a PG-rated program. Not for children under age 17. Strong elements of sex and/or violence.

Not for children under age 17 under any circumstances. Strong sexual content. Same as NC-17 rating. Zenith Electronics Corporation is not liable for any program content that appears when using this rating system; as always, user discretion is advised. TV PARENTAL GUIDELINE RATING SYSTEM G TV-G TV-PG TV-14 TV-MA General Audiences General Audience Parental Guidance Suggested Parents Strongly Cautioned Mature Audience Only Content not offensive to most viewers.

Considered suitable for all audiences; children may watch unattended. Unsuitable for younger children, may contain: Suggestive Dialog, Bad Language, Sex, and Violence Scenes. Unsuitable for children under 14, may contain: Strong Dialog, Bad Language, Sex, and Violence Scenes. Adults only, may contain: Strong Dialog, Bad Language, Sex, and Violence Scenes. CHILDRENS' CLASSIFICATIONS TV-Y Children TV-Y7 Children 7 and over Considered suitable for all children under 7 years old.

Considered suitable for children over 7, may contain Fantasy Violence Scenes. SR24 - 923-03508 1-10 CL - OVERVIEW SECTION 2 SERVICE MENU 07 MIN VOLUME: Allows adjustment of minimum volume level. Range is 0-63. When this item is set to 0, the sound level can be adjusted down to zero. 08 MAX VOLUME: Allows the adjustment of maximum volume level. Range is 0-63. When this item is set to 63, the set has full adjustment capability. 09 AC ON: Has two positions; 0 is off, and 1 is on. In On position, the TV set will turn on and off when AC power is applied. 10 KEY DEFEAT: When set to 1, the end user cannot access the screen menus from the front panel .

Menu, SELECT, and ADJUST do not work. When set to 0, those keys are functional. The menus can always be accessed with menu on the remote. 11 STRT CH: Determines the channel that is selected automatically each time the TV is turned on and sets the audio volume level at turn-on. Range is 0-255. 0 is the Aux position and 255 is Off. Use ADJUST to change the channel number. 12 STRT VOL: Determines the volume that is selected automatically each time the TV is turned on and sets the audio volume level at turn-on. Range is 0-255. If 255 is used then the volume takes the last used volume.

13 HOSPITAL MODE. (Range 0-2) The default is 0 for Concierge and 1 for hospital Models, If it is 1 the Private IR codes are selected. Used with Feature level to select the IR type code. 14 CHAN LOCK: Range is 0-1. 0 is Off and 1 is On.

When set to 1, the TV must always be on the same channel. Changing channels with the Channel up/down or the keypad numbers. Generally, this feature is used in connection with Start Channel. When Ch Lock is active AUTOPROGRAM and ADD/DEL in the SETUP MENU are not active. 15 GHOST CH: Either on or not signal present, the channel number will stay on screen at all times, unless captions are present.

The number moves slightly to prevent damage to the screen. If captions are on, ghost channel will not be present. 16 SCAN MODE: Range is 0-3. The sets turn off when channel scan buttons are being used. In 0 mode, scan off is inoperative. In position 1, the set will turn off between auxiliary and lowest channel. In position 2, the set will turn off between auxiliary and FM. In position 3, the set turns off after an FM station scan. In scan modes 1 and 3 the power On/Off could be changed with Start Ch SM=1 to Start channel. Scan Mode Characteristics 0 TV, VCR3, VCR4, AUX 1 TV, VCR3, VCR4, AUX, ON/OFF 2 TV, VCR3, VCR4, FM, AUX 3 TV, VCR3, VCR4, FM, AUX, ON/OFF 17 TEXT MODE: Turns text mode on or off in the users menu.

Range is 0-1. Zero is off and one is on. In on mode, user can call up text mode. Set to 0 unless text is being used. 2-1 CL - SERVICE MENU SERVICE MENU 00 FACT MENU: Use SELECT UP and DOWN Keys to select item 00, the Factory Mode. This item is used by the Factory when the module is being tested. It has two positions: 0 and 1. In the field, this item should always be left off (Zero is off). When this item is off, only the first twenty-four items in the Installer's Menu can be accessed. They appear one at a time near the middle left of the screen. When this item is set to 1, 91 or 92 (Healthview) menu items are available.



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@@@The TV set will automatically come on when AC is applied. @@@@Selections are Custom and Preset-Store. @@0 is custom and 1 is Preset stored. @@Selections are Custom and Preset-Store.

@@03 POWER MANAGE: Range is 0-7. @@@When set to 0, this feature is inactive. 04 VERT POS: Moves On-Screen Displays vertically. The Range is from 0-25. This adjustment is generally set at 5.

05 HORZ POS: Moves On-Screen Displays horizontally. Range is from 1-15. Generally set at 9. @@@Range is 0-1. Zero is off and 1 is on. 19 ALARM: Enables Alarm key. Range is 0-1. Zero is off and 1 is on. 20 CH OVER RIDE: Zero is off, one is on. In on mode, the TV works normally.

@@In off mode; Auto Program and Channel Add/Delete do not work. 21 OLD OCV: (On Command Video) Zero is off, one is on. @@22 CAPTION LOCK: Zero is off, 1 is on. @@23 FUNCTION PRE: (Function Menu Channel Preview) Range is 0-3. @@@@24 FEATURE LEVEL: Range is 0-1. @@25 TRAP 3.58: Zero is off, one is on. Set to 1 to normal TV operation. Set to 0 if Y/C is used at chassis with a comb filter. @@@Range is 0-1. Set to 1. @@@Range is 0-63. A typical value is 30. @@@Range is 063. Typical value is 30.

@@Range is 0-63. Typical value is 63. 30 VERT SIZE: (Vertical Size) Range is 0-254. 31 HORZ SIZE: (Horizontal Size) Range is 0-254. 32 VERT PHASE: (Vertical Phase) Range is 0-7.

33 HORZ PHASE: (Horizontal Phase) Range is from 0-31. 34 AUDIO LEVEL: Sound Attenuation range is 0-63. 35 RF AGC: (Rf Automatic Gain Control) Range is from 0-63. 48 is a general setting. Tune in weakest available channel and adjust for a snow-free picture. 36 HORZ AFC: Range is 0-1. Set to 0. 0=AFC Normal. 1=AFC X 3. 37 WHITE COMPRESS: (White Compression) The range is 0 to 1.

Set to 0. 0 = Enable and 1 = Disable. 38 60HZ SW: (60 Hertz Switched) The range is 0 to 2. 39 PIF VCO: (PIF Voltaje Controlled Oscillator). Range is 0127. 40 RED CUT: B&W tracking adjustment. Range is 0- 254. Typical value is 20. 41 GREEN CUT: B&W tracking adjustment. Range is 0-254. Typical value is 0. 42 BLUE CUT: B&W tracking adjustment. Range is 0-254. Typical value is 28. 43 GREEN GAIN: B&W tracking adjustment. Range is 0-254. Typical value is 45. 44 BLUE GAIN: B&W tracking adjustment. Range is 0-254. Typical value is 70.

45 6 KEY SYSTEM: Keyboard type. Set to 1 for 6 key and 0 for 10 key. 46 A ATT: Audio Attenuation adjustment. @@@48 A FILTER: STEREO, SAP and dbx filter adjustment. 49 A SPECTRAL: Adjustment of stereo separation(3 khz) 50 WIDE BAND: Adjustment of stereo separation(300 hz). 51 MAX BLK HRS: Range (0-99), Configure the maximum letting Vchip blocking hours 52 START CH IN SM: Range (0-1) Used to enable the Start Channel like the programable power on/off channel in the Scan Modes 1or 3. 53 RADIO: Enable or disable the access to radio function. 54 AUX. Enable the access to auxiliary input. 55 VCHIP: Enable the V Chip function.

56 MUTE DISABLE: If it is enabled (set to 1) it disable the functionality of the Mute Key. 57 EN LA7222: Used in Concierge Models to enable separate auxiliary inputs (Campport and Rear Auxiliar). 58 AUTO CAMPORT: Enables the automatic switching to Campport input when it is sensed. 59 ACK MASK: Used with Spectramate SN 0583358 Cable box to mask the acknowledge in MPI communications. 60 POLL RATE Range (20-168) Used to adjust the polling rate in the MPI Communicaions. The Standard is 94. 61 TIMING PULSE. Range (186-227) Used to vary the standard width of the pulses in the MPI Communications. The Standard is 217. 62 DIS SETUP MENU: Disable/Enable display Setup Menu.

SR24 - 923-03508 2-2 CL - SERVICE MENU SERVICE MENU 63 DIS AUDIO MENU: Disable/Enable displaying Audio Menu. 64 DIS VIDEO MENU: Disable/Enable displaying Video Menu. 65 DIS PARENTAL: Disable/Enable displaying Parental M. 66 CH TIME: Disable/Enable displaying CH TIMER. 67 EN SET UP COLORS: Disable/Enable custom colors for Setup Menu.

68 AUDIO COLOR MENU: Disable/Enable custom colors for Audio Menu. 69 VIDEO COLOR MENU: Disable/Enable custom colors for Parental Menu. 70 PARENTAL COLORS: Disable/Enable custom colors for Parental Menu. 71 CH TIMER COLORS: Disable/Enable custom colors for Ch Time. 72 FOREGROUND SETUP MENU: Select between (0 to7) to set foreground Custom Setup Menu colors.

0- Black 1- Red 2- Green 3- Yellow 4- Blue 5- Magenta 6- Cyan 7- White 82 CH TIME-SIZE: If it is set to 1 and the transparecy attribute is selected and the TV is unblocked; the number of the current channel is shown in big size at the right upper corner of the screen. 83 DEFEAT XDS: Set to 1 for not displaying the length, elapsed time and title of TV programs. 84 CH NOT-AVAILABLE: Set this option to 1 and Ch-Override to 0 to display a message on the bottom of the screen when attempting to enter a not added channel. 85 EN TIMER: This option is used to enable a new option in the setup menu to configure a programmable ON/OFF Timer. 86 UPN MSB: A Unique Programmable Number is used to identify a TV in a TV net. This number is composed by 4 Programmable number (from the current option to option 89). 87 UPN MSB-1: MSB-1 of the Unique Programmable Number. 88 UPN MSB-2: MSB-2 of the Unique Programmable Number. 89 UPN LSB: LSB of Unique Programmable Number. 90 AIR AFT: Set to 1 to enable AFT independent of the current tuning band.

91 IR BANKS ENABLE: In E line there are 4 new keys to access the channel banks directly. This function is enabled when set to 1, When set to 0 this function is disabled. 73 FOREGROUND AUDIO: Select custom foreground color for Audio Menu. 74 FOREGROUND VIDEO: Select custom foreground color for Video Menu. 75 FOREGROUND PARENTAL M: Select custom foreground color for Parental Menu. 76 FOREGROUND CH TIMER: Select custom foreground color for Ch Time Display. 77 BACKGROUND SET UPMENU: Select the background for custom color settings. Select between (0 to7) to set Background Setup Menu colors. 0- Black 1- Red 2- Green 3- Yellow 4- Blue 5- Magenta 6- Cyan 7- White 78 BACKGROUND AUDIO Select the background color for custom color setting as in 77 item for Audio Menu. 79 BACKGROUND VIDEO Select the background color for custom color setting as in 77 item for Video Menu.

80 BACKGROUND PARENTAL Select the background color for custom color setting as in 77 item for Parental Menu. 81 BACKGROUND CH TIMER Select the background color for custom color setting as in 77 item for Parental Menu. SR24 - 923-03508 2-3 CL - SERVICE MENU SERVICE MENU CL Chassis Factory Menu Settings ITEM 00 FACT MENU 01 PRESET PX 02 PRESET AX 03 POWER MANAGE 04 VERT. POS 05 HORZ POS 06 BAND/AFC 07 MIN VOLUME 08 MAX VOLUME 09 AC ON 10 KEY DEFEAT 11 STRT CH 12 STRT VOLUME 13 HOSPITAL MODE 14 CHAN LOCK 15 GHOST CH 16 SCAN MODE 17 TEXT MODE 18 SLEEP TIMER 19 ALARM 20 CH. OVER RIDE 21 OLD OCV 22 CAPTION LOCK 23 FUNCTION PRE 24 FEATURE LEVEL 25 TRAP 3.

58 26 RF BANDPASS 27 RF BRT 28 AUX BRT 29 MAX CONTRAST 30 VSIZE 31 HSIZE 32 VERT PHASE 33 HORZ PHASE 34 AUDIO LEVEL 35 RF AGC 36 HOR AFC 37 WHITE COMP 38 60HZ SW 39 PIF VCO 40 RED CUT 41 GREEN CUT 42 BLUE CUT 43 GREEN GAIN 44 BLUE GAIN 45 6 KEYS SYS 46 A ATT 47 A VCO 48 A FILTER 49 A SPECTRL 50 WIDE BAND 51 MAX BLK HRS 52 STRT CH IN SM 53 RADIO 54 AUX 55 V-CHIP RANGE H20E35DT 0-1 0 0-1 1 0-1 1 0-7 0 0-30 15 0-45 20 0-7 0 0-63 0 0-63 63 0-1 0 0-1 1 0-255 255 0-63,255 255 0-2 0 0-1 0 0-1 0 0-3 0 0-1 1 0-1 1 0-1 1 0-1 1 0-1 0 0-1 0 0-3 0 0-1 1 0-1 0 0-1 1 0-63 30 0-63 30 0-63 63 0-254 165 0-254 118 0-7 2 0-31 16 0-63 46 0-63 46 0-1 1 0-1 0 0-2 2 0-127 52 0-254 0 0-254 0 0-254 0 0-254 80 0-254 90 0-1 0 0-15 9 0-63 31 0-63 31 0-63 31 0-63 31 0-99 12 0-1 0 0-1 1 0-1 1 0-1 1 HW20E35DT 0 1 1 0 15 20 0 0 63 0 1 255 255 0 0 0 0 1 1 1 1 0 0 0 1 0 1 30 30 63 165 118 2 16 46 46 1 0 2 52 0 0 0 80 90 0 9 31 31 31 31 12 0 1 1 1 HW25E35DT 0 1 1 0 15 20 0 0 63 0 1 255 255 0 0 0 0 1 1 1

1 0 0 0 1 0 1 30 30 63 165 118 2 16 46 46 1 0 2 52 0 0 0 80 90 0 9 31 31 31 31 12 0 1 1 1 H25E34Y H25E35DT 0 0 1 1 0 1 0 0 15 15 23 20 0 0 0 0 63 63 0 0 1
1 255 255 255 255 0 0 0 0 0 0 0 1 1 1 1 1 1 1 0 0 0 0 0 0 1 1 0 0 1 1 30 30 30 30 63 63 155 165 118 118 2 2 15 16 46 46 46 46 1 1 0 0 2 2 52 52 0 0 0 0 0
80 80 90 90 0 0 9 9 31 31 31 31 31 31 31 31 12 12 0 0 0 1 1 1 1 1 DESCRIPTION Factory mode - refer to page 2-1 Used to store video menu adjustments
Used to store audio menu adjustments Hours TV will operate if not attended Moves On Screen display vertically Moves On Screen display horizontally
Broadcast Band adjustment Sets min.



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customer volume level Sets max. customer volume level AC power feature Disables part of control panel Determines channel at turn on Determines volume at turn on Remote control frequency level Defeats tuning operation In On mode, channel # will stay on screen Channel adjust cycles On/Off Turns Text mode on or off in CC menu Enables Sleep Timer feature Enable Alarm Key Channel scan toggle On Command Video toggle Caption state is maintained after power off Menu Channel Preview switch Selects Zenith or private label 3.58 Mhz trap Luma Filter toggle Brightness for RF mode Brightness for AUX mode Sets maximum customer control for contrast Vertical size Horizontal size Shifts picture vertically Shifts picture horizontally Audio level control Weak channel adjustment Horizontal Automatic Frequency control White compression 60 Hertz Switched PIF Voltage Controlled Oscillator B&W tracking adjustment B&W tracking adjustment B&W tracking adjustment B&W tracking adjustment Keyboard Type Audio Attenuation Audio Voltage Controlled Oscillator Audio Filter Adjustment Adjustment of High Frequency Stereo Separation Low Frequency Stereo Separation Max Blank Hours for V-Chip Enable start channel at scan mode Enable/Disable Radio Function Enable the access to auxiliary input Enable V chip Block SR24 - 923-03508 2-4 CL - SERVICE MENU SERVICE MENU CL Chassis Factory Menu Settings ITEM 56 MUTE DISABLE 57 EN LA7222 58 AUTO CAMPORT 59 ACK MASK 60 POLL RATE 61 TIMING PULSE 62 DIS. SETUP M 63 DIS.

AUDIO M 64 DIS. VIDEO M 65 DIS. PARENTAL 66 DIS. CH-TIME 67 EN. SET. COL 68 EN. AUD. COL 69 EN. VID. COL 70 EN.

PTL. COL 71 EN. CH-T COL 72 FOR. SETUP M 73 FOR. AUDIO M 74 FOR. VIDEO M 75 FOR. PTL M 76 FOR. CH-TIME 77 BCK. SETUP M 78 BCK. AUDIO M 79 BCK.

VIDEO M 80 BCK. PTL M 81 BCK. CH-TIME 82 CH TIME-SIZE 83 DEFEAT XDS RANGE H20E35DT HW20E35DT HW25E35DT H25E34Y H25E35DT DESCRIPTION 0-1 0 0 0 0 0 Disabel mute key 0-1 1 1 0 0 0 Enable separate auxiliary inputs (Campport/Rear Aux) 0-1 1 1 1 0 1 Enable auto campport switch 0-1 0 0 0 0 0 Used in MPI communication 20-169 94 94 94 94 94 Select Poll rate for MPI communications 186-227 207 207 207 207 207 Select timing pulse for MPI communication 0-1 0 0 0 0 0 Disable/Enable displaying Setup Menu 0-1 0 0 0 0 0 Disable/Enable displaying Audio Menu 0-1 0 0 0 0 0 Disable/Enable displaying Video Menu 0-1 0 0 0 0 0 Disable/Enable displaying Parental Menu 0-1 0 0 0 0 0 Disable/Enable displaying CH-TIME 0-1 0 0 0 0 0 Disable/Enable custom colors for Setup Menu 0-1 0 0 0 0 0 Disable/Enable custom colors for Audio Menu 0-1 0 0 0 0 0 Disable/Enable custom colors for Video Menu 0-1 0 0 0 0 0 Disable/Enable custom colors for Parental Menu 0-1 1 1 1 1 1 Disable/Enable custom colors for CH-TIME 0-7 6 6 6 6 6 Select forground color for Setup Menu 0-7 1 1 1 1 1 Select forground color for Audio Menu 0-7 4 4 4 4 4 Select forground color for Video Menu 0-7 6 6 6 6 6 Select forground color for Parental Menu 0-7 1 1 1 1 1 Select forground color for CH-TIME 0-7 4 4 4 4 4 Select background color for Setup Menu 0-7 7 7 7 7 7 Select background color for Audio Menu 0-7 7 7 7 7 7 Select background color for Video Menu 0-7 4 4 4 4 4 Select background color for Parental Menu 0-7 1 1 1 1 1 Select background color for CH-TIME 0-1 0 0 0 0 0 Show the number of the current channel 0-1 0 0 0 0 0 Disable the extended services like program length, TV titles, etc. 0 1 LINE DAY WEEK S.N.

HIGH S.N. LOW 0 1 0 1 LINE DAY WEEK S.N. HIGH S.

N. LOW 0 1 0 1 LINE DAY WEEK S.N. HIGH S.N. LOW 0 1 Display a message when attempt entering a not added channel. 1 1 Enable a new option to configure a programmable on/off Timer. LINE DAY LINE DAY Unique programmable Number WEEK WEEK Unique programmable Number S.N. HIGH S.

N. HIGH Unique programmable Number S.N. LOW S.N. LOW Unique programmable Number 0 0 Enable AFT independent of the current tuning band 1 1 Disable the option to acces the channel banks 0 0 84 CH NOT AVAILABLE 0-1 85 86 87 88 89 90 91 EN TIMER UPN MSB UPN MSB-1 UPN MSB-2 UPN LSB AIR AFT IR BANKS ENABLE 0-1 0-255 0-255 0-255 0-255 0-1 0-1 SR24 - 923-03508 2-5 CL - SERVICE MENU SERVICE MENU CL Chassis Factory Menu Settings ITEM 00 FACT MENU 01 PRESET PX 02 PRESET AX 03 POWER MANAGE 04 VERT. POS 05 HORZ POS 06 BAND/AFC 07 MIN VOLUME 08 MAX VOLUME 09 AC ON 10 KEY DEFEAT 11 STRT CH 12 STRT VOLUME 13 HOSPITAL MODE 14 CHAN LOCK 15 GHOST CH 16 SCAN MODE 17 TEXT MODE 18 SLEEP TIMER 19 ALARM 20 CH. OVER RIDE 21 OLD OCV 22 CAPTION LOCK 23 FUNCTION PRE 24 FEATURE LEVEL 25 TRAP 3.58 26 RF BANDPASS 27 RF BRT 28 AUX BRT 29 MAX CONTRAST 30 VSIZE 31 HSIZE 32 VERT PHASE 33 HORZ PHASE 34 AUDIO LEVEL 35 RF AGC 36 HOR AFC 37 WHITE COMP 38 60HZ SW 39 PIF VCO 40 RED CUT 41 GREEN CUT 42 BLUE CUT 43 GREEN GAIN 44 BLUE GAIN 45 6 KEYS SYS 46 A ATT 47 A VCO 48 A FILTER 49 A SPECTRL 50 WIDE BAND 51 MAX BLK HRS 52 STRT CH IN SM 53 RADIO 54 AUX 55 V-CHIP RANGE H25E39Y H27E35DT H32E35DT H36E35DT HPK20E35DT HPK27E35DT DESCRIPTION 0-1 0 0 0 0 0 0 Factory mode - refer to page 2-1 0-1 1 1 1 1 1 1 Used to store video menu adjustments 0-1 0 1 1 1 1 1 Used to store audio menu adjustments 0-7 0 0 0 0 0 0 Hours TV will operate if not attended 0-30 15 15 15 15 15 Moves On Screen display vertically 0-45 24 24 20 20 24 Moves On Screen display horizontally 0-7 0 0 0 0 0 Broadcast Band adjustment 0-63 0 0 0 0 0 0 Sets min. customer volume level 0-63 63 63 63 63 63 63 Sets max.

customer volume level 0-1 0 0 0 0 0 0 AC power feature 0-1 1 1 1 1 1 1 Disables part of control panel 0-255 255 255 255 255 255 Determines channel at turn on 0-63,255 255 255 255 255 255 Determines volume at turn on 0-2 0 0 0 0 0 0 Remote control frequency level 0-1 0 0 0 0 0 0 Defeats tuning operation 0-1 0 0 0 0 0 0 In On mode, channel # will stay on screen 0-3 0 0 0 0 0 0 Channel adjust cycles On/Off 0-1 1 1 1 1 1 1 Turns Text mode on or off in CC menu 0-1 1 1 1 1 1 1 Enables Sleep Timer feature 0-1 1 1 1 1 1 1 Enable Alarm Key 0-1 1 1 1 1 1 1 Channel scan toggle 0-1 0 0 0 0 0 0 On Command Video toggle 0-1 0 0 0 0 0 0 Caption state is maintained after power off 0-3 0 0 0 0 0 0 Menu Channel Preview switch 0-1 1 1 1 1 1 1 Selects Zenith or private label 0-1 0 0 0 1 0 0 3.58 Mhz trap 0-1 1 1 1 1 1 1 Luma Filter toggle 0-63 30 30 30 30 30 30 Brightness for RF mode 0-63 30 30 30 30 30 30 Brightness for AUX mode 0-63 63 63 63 63 63 63 63 Sets maximum customer control for contrast 0-254 155 165 165 185 165 165 Vertical size 0-254 150 150 118 140 118 150 Horizontal size 0-7 2 2 2 3 2 2 Shifts picture vertically 0-31 15 16 16 16 16 16 Shifts picture horizontally 0-63 46 46 46 46 46 46 Audio level control 0-63 46 46 46 46 46 Weak channel adjustment 0-1 1 1 1 1 1 1 Horizontal Automatic Frequency control 0-1 0 0 0 0 0 0 White compression 0-2 2 2 2 2 2 2 60 Hertz Switched 0-127 52 52 52 52 52 52 PIF Voltage Controlled Oscillator 0-254 0 0 0 0 0 0 B&W tracking adjustment 0-254 0 0 0 0 0 0 B&W tracking adjustment 0-254 0 0 0 0 0 0 B&W tracking adjustment 0-254 80 80 80 80 80 80 B&W tracking adjustment 0-254 90 90 90 90 90 90 B&W tracking adjustment 0-1 0 0 0 0 0 0 Keyboard Type 0-15 9 9 9 9 9 9 Audio Attenuation 0-63 31 31 31 31 31 31 31 Audio Voltage Controlled Oscillator 0-63 31 31 31 31 31 31 Audio Filter Adjustment 0-63 31 31 31 31 31 31 Adjustment of High Frequency Stereo Separation 0-63 31 31 31 31 31 31 Low Frequency Stereo Separation 0-99 12 12 12 12 12 12 Max Blank Hours for V-Chip 0-1 0 0 0 0 0 0 Enable start channel at scan mode 0-1 0 0 0 0 1 1 Enable/Disable Radio Function 0-1 1 1 1 1 1 1 Enable the access to auxiliary input 0-1 1 1 1 1 1 1 Enable V chip Block SR24 - 923-03508 2-6 CL - SERVICE MENU SERVICE MENU CL Chassis Factory Menu Settings ITEM 56 MUTE DISABLE 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 H25E39Y H27E35DT H32E35DT H36E35DT HPK20E35DT HPK27E35DT DESCRIPTION 0 0 0 0 0 0 0 Disabel mute key Enable separate auxiliary inputs (Campport/Rear EN LA7222 0-1 0 1 1 1 1 1 Aux) AUTO CAMPORT 0-1 0 1 1 1 1 1 1 Enable auto campport switch ACK MASK 0-1 0 0 0 0 0 0 Used in MPI communication POLL RATE 20-169 94 94 94 94 94 94 Select Poll rate for MPI communications TIMING PULSE 186-227 207 207 207 207 207 207 Select timing pulse for MPI communication DIS.

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SETUP M 0-1 0 0 0 0 0 0 Disable/Enable displaying Setup Menu DIS. AUDIO M 0-1 0 0 0 0 0 0 Disable/Enable displaying Audio Menu DIS. VIDEO M 0-1 0 0 0 0 0 0 Disable/Enable displaying Video Menu DIS.

PARENTAL M 0-1 0 0 0 0 0 0 Disable/Enable displaying Parental Menu DIS. CH-TIME 0-1 0 0 0 0 0 0 Disable/Enable displaying CH-TIME EN. SET. COL 0-1 0 0 0 0 0 0 Disable/Enable custom colors for Setup Menu EN. AUD. COL 0-1 0 0 0 0 0 0 Disable/Enable custom colors for Audio Menu EN. VID. COL 0-1 0 0 0 0 0 0 Disable/Enable custom colors for Video Menu EN. PTL. COL 0-1 0 0 0 0 0 0 Menu EN. CH-T COL 0-1 1 1 1 1 1 1 Disable/Enable custom colors for CH-TIME FOR. SETUP M 0-7 6 6 6 6 6 6 Select foreground color for Setup Menu FOR. AUDIO M 0-7 1 1 1 1 1 1 Select foreground color for Audio Menu FOR. VIDEO M 0-7 4 4 4 4 4 4 Select foreground color for Video Menu FOR. PTL M 0-7 6 6 6 6 6 6 Select foreground color for Parental Menu FOR.

CH-TIME 0-7 1 1 1 1 1 1 Select foreground color for CH-TIME BCK. SETUP M 0-7 4 4 4 4 4 4 Select background color for Setup Menu BCK. AUDIO M 0-7 7 7 7 7 7 7 Select background color for Audio Menu BCK. VIDEO M 0-7 7 7 7 7 7 7 Select background color for Video Menu BCK. PTL M 0-7 4 4 4 4 4 4 Select background color for Parental Menu BCK. CH-TIME 0-7 1 1 1 1 1 1 Select background color for CH-TIME CH TIME-SIZE 0-1 0 0 0 0 0 0 Show the number of the current channel Disable the extended services like program DEFEAT XDS 0-1 0 0 0 0 0 0 length, TV titles, etc. Display a message when attempting entering a CH NOT AVAILABLE 0-1 0 0 0 0 0 0 not added channel. Enable a new option to configure a EN TIMER 0-1 1 1 1 1 1 1 programmable on/off Timer. UPN MSB 0-255 LINE DAY LINE DAY LINE DAY LINE DAY LINE DAY LINE DAY Unique programmable Number UPN MSB-1 0-255 WEEK WEEK WEEK WEEK WEEK Unique programmable Number UPN MSB-2 0-255 S.N. HIGH S.N. HIGH S.N. HIGH S. N. HIGH S.N. HIGH S.N. HIGH Unique programmable Number UPN LSB 0-255 S.N. LOW S.N. LOW S.N. LOW S.N. LOW S.N. LOW Unique programmable Number Enable AFT independent of the current AIR AFT 0-1 0 0 0 0 0 0 tuning band 0-1 1 1 1 1 1 1 Disable the option to access the channel banks RANGE 0-1 91 IR BANKS ENABLE SR24 - 923-03508 2-7 CL - SERVICE MENU SECTION 3 SERVICING GENERAL INFORMATION Servicing the CL chassis is the same as with other Zenith single-board chassis. If the set is dead, first check the standby and switched voltages. If the switched voltages do not appear, check the power "On" circuit. If the power supply is OK and the set will turn on, the Horizontal sweep circuit should be checked next. Is horizontal drive available from the video processor chip? If the sweep system does not start up, sweep-derived voltages will not be generated. If the sweep and high-voltage circuits are OK and video or audio are missing, then the audio/video/tuner circuits should be checked. If the receiver is working but some feature is not working, check the Service Menu. Bring up the Service menu and check to be sure that all items are set correctly. MODULE-LEVEL SERVICING The CL Chassis is Module Level repair only. Replacement modules are available on an exchange basis. If the CRT or Video processor IC is replaced, Black/White tracking must be reset. Refer to the Service Menus section of this book for Black/White tracking adjustments. When troubleshooting video circuits, remember that all video travels through the Video/Audio switcher IC. A defect in either of these IC's can result in no video. Power On at IC6000 pin 32 Check the following: Keyboard input at IC6000 pins 7 and 8 IR input at IC6000 pin 15 Power On output at IC6000 pin 32 Q3802 power supply "turn on" transistor. Check the switched voltages: +15 VSW DC at CX3804 +15 VAUD DC for the Audio Amp at LX3805 +9 VSW DC CX3806 SWEEP DERIVED VOLTAGES +25 volts DC at (+) CX2105 +35 volts DC at the junction of CX3253 and DX3252 +215 volts DC at the junction of CX3208 and RX3208 +33 volts DC at the junction of RX3216 and ZD6001 CRT FILAMENT Check at pin 1 and 2 of connector 2F5. This should read voltages between 6.1 and 6.3 volts AC on a true RMS meter. VIDEO PROCESSOR ICX2200 Check the following key operating signals and voltages: Luminance at ICX2200 pin 43 Chroma at ICX2200 pin 45 Horizontal drive at pin 32 Vertical drive at pin 24 R Out pin 19 G Out pin 20 B Out pin 21 Serial Clock, Serial Data pins 27 and 28 respectively VCC 9 volts pins 9, 26, 46 & 48 R in from micro (IC6000) at pin 15 G in from micro (IC6000) at pin 16 B in from micro (IC6000) at pin 17 MICROPROCESSOR Check the following: IR in on pin 15 +5 volts on pins 27 and 18 Serial Data, Serial Clock on pins 36 and 38 Reset at pin 30 Horiz. SYNC at pin 1, Vertical SYNC at pin 2 R Out at pin 52, G Out at pin 51 and B Out at pin 50 WARNING! DO NOT disconnect the Video output module from the CRT when troubleshooting 32" receivers. If the video output module is removed on these sets while power is ON, the CRT will arc and can be permanently damaged. Also, the technician is in danger of serious shock. There is a termination circuit (W5101) on the CRT module to prevent this from happening. SERVICING THE POWER SUPPLY Check the standby voltages first: VDC at CX3407 (usually 169.7 VDC when 120 VCA) B+ at CX3610 Note: B+ 130 VDC for 32 inch & B+ 124 VDC for 27 inch. +15 VSB at CX3800 +14 +VL at C3803 +5 VSB at CX3802 SR24 - 923-03508 3-1 CL - SERVICING SERVICE ADJUSTMENTS (continued) VERTICAL CIRCUIT Check the following: Vertical drive at pin 3. Vertical out at pin 1. +25 VDC at pin 10. HORIZONTAL CIRCUIT Check the following: Horizontal drive to base of Q3201 predriver. Driver transformer output at base of QX3203. Shutdown voltage at RX3010. Scan derived voltages +25V, +35V, +215V, +33V. HIGH VOLTAGE AND X RADIATION PROTECTION Without high voltage (HV) adjustments, the picture tube is a potential source of X-rays. An HV shutdown circuit is used to prevent excessive HV and X-ray emissions. THEORY OF OPERATION (SHUTDOWN CIRCUIT) This circuit monitors the sweep pulse voltage derived from sweep transformer TX3204 pins 5 & 6. This voltage is rectified and applied to a 12V zener diode ZDX3004. When the HV reaches its maximum allowed value (see drawing) the zener diode conducts, the voltage on pin 29 of the video processor (ICX2200) increase until it reaches the threshold voltage of 3.5 VDC and shuts down the TV. If the shutdown circuit has operated, the microcontroller will prevent the TV from being turned on again. Unplug the AC cord to reset the microcontroller. HIGH VOLTAGE TEST PROCEDURE Apply signal through the video generator or tune the TV color receiver to crosshatch pattern. Connect an accurate HV meter between the picture tube anode and chassis ground. Access Video Menu and adjust Brightness and Contrast controls for minimum screen luminance. Wait until the Video Menu or display disappear. Read HV meter. MODULE AV SHUTDOWN EXTERNAL RX3703 27" 174K 32" 182K R3 1 Kohm C A External Power Supply 4 - 8 Volts R1 100 Kohm ICX3702 R Q2 121-1187 Q1 121-1187 RX3704 3.



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