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You can read the recommendations in the user guide, the technical guide or the installation guide for ZENITH ZLD15A1B. You'll find the answers to all your questions on the ZENITH ZLD15A1B in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual ZENITH ZLD15A1B**  
**User guide ZENITH ZLD15A1B**  
**Operating instructions ZENITH ZLD15A1B**  
**Instructions for use ZENITH ZLD15A1B**  
**Instruction manual ZENITH ZLD15A1B**

**Operating Guide | Warranty**

Model Number | ZLD15A1B | LCD TV



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**Manual abstract:**

*REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. @@@@NOTE TO CABLE/TV INSTALLER: This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical. REGULATORY INFORMATION: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.*

*These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.*

*If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: · Reorient or relocate the receiving antenna. · Increase the separation between the equipment and receiver. · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. · Consult the dealer or an experienced radio/TV technician for help. CAUTION: Do not attempt to modify this product in any way without written authorization from Zenith Electronics Corporation.*

*Unauthorized modification could void the user's authority to operate this product. The responsible party for this product's compliance is : Zenith Electronics Corporation, 2000 Millbrook Dr., Lincolnshire, IL 60069, USA 1-847-941-8000 206-3779 "Entertainment Machine TM " is a trademark of Zenith Electronics Corporation 2 IMPORTANT SAFETY INSTRUCTIONS Important safeguards for you and your new product Your product has been manufactured and tested with your safety in mind. However, improper use can result in potential electrical shock or fire hazards. To avoid defeating the safeguards that have been built into your new product, please read and observe the following safety points when installing and using your new product, and save them for future reference.*

*Observing the simple precautions discussed in this booklet can help you get many years of enjoyment and safe operation that are built into your new product.*

*This product complies with all applicable U.S. Federal safety requirements, and those of the Canadian Standards Association. 1. Read Instructions All the safety and operating instructions should be read before the product is operated. 2. Follow Instructions All operating and use instructions should be followed. 3. Retain Instructions The safety and operating instructions should be retained for future reference.*

*4. Heed Warnings All warnings on the product and in the operating instructions should be adhered to. 5. Cleaning Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning. 6. Water and Moisture Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool. 7. Accessories, Carts, and Stands Do not place this product on an unstable cart, stand, tripod, bracket, or table.*

*The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. 8. Transporting Product A product and cart combination should be moved with care.*

*Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn. 9. Attachments Do not use attachments not recommended by the product manufacturer as they may cause hazards. 10. Ventilation Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered.*

*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. 11. Power Sources This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions. 12. Power-Cord Polarization This product is equipped with a three-wire grounding type alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature.*

*If you are unable to insert the plug fully into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug. 13. Power-Cord Protection Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product. (Continued on next page) PORTABLE CART WARNING 206-3779 3 INTRODUCTION IMPORTANT SAFETY INSTRUCTIONS (Continued from previous page) 14. Outdoor Antenna Grounding If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (U.S.A.), ANSI/NFPA 70 provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.*

*Example of Grounding According to National Electrical Code Instructions Ground Clamp Antenna Lead in Wire Antenna Discharge Unit (NEC Section 810-20) Grounding Conductor (NEC Section 810-21) Ground Clamps Power Service Grounding Electrode System (NEC Art 250, Part H) Electric Service Equipment NEC - National Electrical Code 15. Lightning For added protection for this product (receiver) during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system.*



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This will prevent damage to the product due to lightning and power-line surges. 16. Power Lines An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits.

When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal. 17. Overloading Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock. 18. Object and Liquid Entry Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.

Never spill liquid of any kind on the product. 19. Servicing Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel. 20. Damage Requiring Service Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions: a. If the power-supply cord or plug is damaged. b. If liquid has been spilled, or objects have fallen into the product. c.

If the product has been exposed to rain or water. d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation. e. If the product has been dropped or the cabinet has been damaged. f. If the product exhibits a distinct change in performance. 21. Replacement Parts When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part.

Unauthorized substitutions may result in fire, electric shock, or other hazards. 22. Safety Check Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition. 23. Wall or Ceiling Mounting The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

The product may slide or fall, causing serious injury to a child or adult, and serious damage to the product. 24. Heat The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat. 206-3779 4 1 Safety precautions Controls TV Overview TV Installation and Setup 2 6 10 11 2 CONTENTS INDEX 3 Antenna Connections VCR Connections External Equipment Connections DVD Player Connections DTV (Set-top Box) Connections PC/Computer Connections (use TV as a Monitor) PC Mode Functions Check PC Mode Adjustments 13 14 15 16 17 18 20 21 Remote Control: Installing Batteries/Operation To turn the TV on TV Mode Available Menus Menu Language Selection Auto Programming: Finding/Erasing channels 26 27 28 29 30 4 Setting the Clock Setting Off Timer Setting On Timer Sleep Timer Setup 32 33 35 37 5

Video/Picture Setup Audio/Sound Setup 38 42 6 Before operating the TV, please read this manual carefully. Closed Captions Parental Control Auto Off Key Lock 48 51 54 55 7 Specifications Maintenance Troubleshooting Check List Your Zenith Limited Warranty 56 57 58 Back cover 206-3779 5 Controls Front of the TV on/off button tv/video menu enter vol vol ch ch power Front control panel Menu button TV/Video button Volume buttons Channel buttons Power button On indicator Enter button tv/video menu enter vol vol ch ch power Remote control sensor 206-3779 6 Back of the TV Connection Panel PC SOUND PC INPUT H/P S-VIDEO IN VIDEO (MONO) L DVD/DTV IN COMPONENT(480i/480p/720p/1080i) AUDIO R AUDIO Y PB PR L R ANT IN +75 DC 12V PC input PC sound input S-Video input DVD/DTV IN (Component (480i/480p/720p/1080i), AUDIO) input Audio/Video input DC 12V input Antenna input Headphone jack 206-3779 7 INTRODUCTION Controls Remote Control Overview power tv/video POWER BUTTON 1 2 5 8 0 menu mute ch vol enter vol 3 6 9 cc NUMBER BUTTONS 4 7 flashbk FLASHBK BUTTON MENU BUTTON CHANNEL (D,E) BUTTONS PAGE 46 mis ch sleep MTS BUTTON PIP BUTTON pip position pip input cally reverts to TV mode if the channel (D,E) buttons or number buttons (0~9) are pressed.

\* Connect to other AV equipment using input jacks on the TV. Connecting a VCR 1 How to connect q Connect the audio/video output jacks on VCR to the corresponding input jacks on the TV. PC SOUND PC INPUT H/P S-VIDEO IN VIDEO (MONO) L DVD/DTV IN COMPONENT(480i/480p/720p/1080i) AUDIO R AUDIO Y PB PR L R ANT IN +75 DC 12V Typical Antennas 2 ANT IN Direct connection ANT OUT S-VIDEO OUT CH3 IN CH4 (R) AUDIO (L) VIDEO VCR Connection Panel 1 2 How to use Watching TV programs Turn the TV on and tune to a channel. Watching VCR a. Press tv/video button of the remote control to select Video mode. \* Select the channel 3 or 4 for only ANT IN connection 1 . \* Select VIDEO to use Audio/Video In connection 2 . b. Insert a video tape into the VCR and press the PLAY button. 206-3779 14 External Equipment Connections Watching external A/V source 1 How to connect q Connect the audio/video output jacks on the external A/V equipment to the corresponding input jacks on the TV.

H/P S-VIDEO IN VIDEO (MONO) L DVD/DTV IN COMPONENT(480i/480p/720p/1080i) AUDIO R Y PB PR TV Connection Panel Camcorder CDGP Video Game set VCDP R AUDIO L VIDEO External Equipment Connection Panel CDI 2 How to use q Turn on the external A/V equipment. q Turn the TV on and press tv/video button to select Video mode. Video tv/video On Remote Control 206-3779 15 CONNECTIONS DVD Player Connections q Connect DVD/DTV output jacks to TV's COMPONENT (480i/480p/720p/1080i), Y, PB, PR jacks. Connect DVD/DTV audio output jacks to right and left input jacks on TV. 1 How to connect PC SOUND PC INPUT H/P S-VIDEO IN VIDEO (MONO) L DVD/DTV IN COMPONENT(480i/480p/720p/1080i) AUDIO R AUDIO Y PB PR L R ANT IN +75 DC 12V TV Connection Panel PB PR R AUDIO L DVD Connection Panel Note: TV INPUT Y PB PR DVD OUTPUT Y Y Y Cb B-Y Pb PB Cr R-Y Pr PR 2 How to use q Turn on the DVD player. q Turn the TV on and use tv/video button to select Component source. q See DVD/DTV user's manual for operating instructions. Component tv/video On Remote Control 206-3779 16 DTV (Set-top Box) Connections q Connect DVD/DTV output to COMPONENT(480i/480p/720p/1080i), Y, PB, PR jack inputs on the TV.



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Connect DTV L/R audio outputs to the TV's AUDIO L/R input jacks. Note: A DTV set-top box is required to receive DTV programming.  
PC SOUND PC INPUT H/P S-VIDEO IN VIDEO (MONO) L DVD/DTV IN COMPONENT(480i/480p/720p/1080i) AUDIO R AUDIO Y PB PR L R ANT IN  
+75 DC 12V TV Connections Panel PB PR R AUDIO L DTV Receiver (Set-top Box) Connections Panel 2 How to use q Turn on the DTV receiver (Set-top  
Box). q Turn the TV on and use tv/video button to select Component source. Component tv/video On Remote Control 206-3779 17 CONNECTIONS 1 How to  
connect PC/Computer Connections (using TV as a Monitor) \* After setup, be sure to set TV to PC source. 1 How to connect q Set the monitor output  
resolution on the PC before connecting to the TV. See the next page.

q Connect the TV to the PC with the PC cable. q Connect the PC audio output to the TV's PC SOUND input. PC SOUND PC INPUT H/P S-VIDEO IN  
VIDEO (MONO) L AUDIO R TV Connections Panel PC Connections Panel 2 How to use q Turn on the PC/Computer. q Turn the TV on and use tv/video  
button to select RGB-PC source. RGB-PC tv/video On Remote Control 206-3779 18 Displayable Monitor Output Format Specifications MODE Resolution  
640x400 640x400 640x480 VGA 640x480 640x480 640x480 720x400 800x600 800x600 SVGA 800x600 800x600 800x600 (MAC) XGA 832x624  
1024x768 1024x768 1024x768 1024x768 Horizontal Frequency (KHz) 31.  
5KHz 37.9KHz 31.5KHz 35.0KHz 37.9KHz 37.5KHz 43.3KHz 31.5KHz 35.2KHz 37.9KHz 48.

1KHz 46.9KHz 53.7KHz 49.7KHz 48.4KHz 56.5KHz 60.2KHz 68.67KHz Vertical Frequency (Hz) 70Hz 85Hz 60Hz 67Hz 72Hz 75Hz 85Hz 70Hz 56Hz 60Hz  
72Hz 75Hz 85Hz 75Hz 60Hz 70Hz 75Hz 85Hz Note: The TV has been pre-adjusted to use XGA1024x768, 60Hz format. a. If possible, use one of the XGA  
formats to obtain the best image quality for your TV/LCD monitor.

If set up under other resolutions, a distorted picture may appear on the screen. If set to Vertical frequency 85Hz, some noise can be seen when PIP is on. In  
this case, set the Vertical frequency to 60Hz. b. If the message "OUT OF RANGE" appears on the screen, adjust the PC output to a format listed in the  
Displayable Monitor Output Format Specifications' chart above.

DPM (Display Power Management) mode When the PC is in the power saving mode, to also save energy, the monitor automatically switches to DPM mode. \*  
Synchronization input form : Separate 206-3779 19 CONNECTIONS PC Mode Functions Check \* After setup, be sure to set TV to PC source. 1 Press the  
menu button repeatedly to display the menus as shown below. Picture CH. Sound G G G CH.

APC DRP User DASP Balance AVL G G G FG Move G Next FG Move G Next Special CH. CH. Timer G G PC PIP Clock Off-timer On-timer G G G FG  
Move G Next FG Move G Next 2 20 Use the channel (D,E) buttons to select menu options. 206-3779 PC Mode Adjustments \* Be sure to select the PC source  
before operation. PC setup 1 Use the menu button to select the Special Menu. Special CH. 3 Press the volume (G) and then use the channel (D,E) buttons to  
select an option you want to adjust. PC PIP G G PC Setup (H-position) G G (V-position) G Clock G Phase G Auto configure G Reset G FG 0 FG Move G  
Next Move G Next F Back q Each press of channel (D,E) buttons changes the screen display as shown below. 2 Press the volume (G) and then use the channel  
(D,E) buttons to select the PC option. H-position V-position Reset Clock Auto configure Phase 206-3779 21 CONNECTIONS PC Mode Adjustments 4 Press  
the volume (G) and then use the volume (F, G) buttons to make appropriate adjustments.

PC H-Position V-Position Clock Phase Auto configure Reset FG G G G G G 0 Adjust A Back q H-Position/V-Position This function adjusts picture  
left/right and up/down. The adjustment ranges are -100~+100 / -30~+30. q Clock This function minimizes any vertical bars or stripes appearing on the  
screen background. The adjustment range is -30~+30. q Phase This function allows you to remove any horizontal noise and clear up or sharpen the character  
images. The range adjustment is -15~+15. q Auto-configure This function is for the automatic adjustment of the screen position, clock and clock phase.  
@@@\* If you turn on PIP, you cannot access PC setup. @@@@\* Don't mix the used batteries with new batteries. @@@@\* Don't place the remote  
control near a heater or in a damp place.

A strong impact on remote control may damage it. @@@@\* The TV reverts to standby mode. @@@@\* Select  
30. Timer CH. Clock Off-timer On-timer G G G FG Move G Next Timer CH.

Clock Off-timer On-timer G G G 10 : -- AM 30 2 3 Press the volume (G) and then use the channel (D,E) buttons to select the Clock option. F G Move FG  
Adjust A Back Press the volume (G) and then use the channel (D,E) buttons to set the current hour. q Set AM 10. Timer CH. Clock Off-timer On-timer G G G  
10 : -- AM -- 5 Press the enter (A) button.

q The clock starts when you press the enter (A) button. F G Move FG Adjust A Back 206-3779 32 Setting the Off Timer \*Timer function operates only if  
current time has been already set. \*Off-timer function overrides on-timer function if they are set to the same time. Setup to turn the TV off at 11:30 p.m. 1 Use  
the menu button to select the Timer menu. 3 Press the volume (G) and use the channel (D,E) buttons to set the turnoff hour. q Set PM 11. Timer CH. Clock Off-  
timer On-timer G G G Timer CH.

FG Move G Next G F G Move 2 Press the volume (G) and then use the channel (D,E) buttons to select the Off timer option. 206-3779 FG Adjust A Back 33  
CLOCK SETTING Clock Off-timer On-timer G G 11 : -- PM Run -- Setting the Off Timer (Continued from previous page) 4 Press the volume (G) and use the  
channel (D,E) buttons to set the minutes. qIf you hold the channel (D) button, the minute display is changed in the sequence of 00 01 02 ...58 59, and changed  
in the reverse sequence for channel (E) button. q Set 30. 6 Use the channel(D,E) buttons to select Run. q Each press of channel (D,E) button changes the  
screen display as below. Run Hold q The screen display will disappear if you press the enter (A) button one more time.

Timer CH. Clock Off-timer On-timer G G G 11 : 30 PM Run -- F G Move FG Adjust A Back 7 5 Use the volume (G) button to select Hold or Run. q Hold, Off  
Timer will not work. Run, Off Timer will work. Press the enter (A) button.

q Time is progressed from the point of pressing the enter (A) button. 206-3779 34 Setting the On Timer \*Timer function operates only if current time has been  
already set. Setup to turn the TV on at 7:10 a.



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m., tune TV to channel 8, with volume set at 40.

1 Use the menu button to select the Timer menu. 3 Press the volume (G) and then use the channel (D,E) buttons to select hour you want to set. q Select AM 7. Timer CH. Clock Off-timer On-timer G G G Timer CH. FG Move G Next G G 7 -- : -- AM TV 3 Vol 30 Run F G Move 2 Press the volume (G) and then use the channel (D,E) buttons to select the On timer option. 206-3779 FG Adjust A Back 35 CLOCK SETTING Clock Off-timer On-timer G Setting On-Timer function (Continued from previous page) 4 Press the volume (G) and then the channel (D,E) buttons to select minute you want to set. q If you hold the channel (D) button, the minute display changes in the following sequence of 00 01 02 ...

58 59, and changes in the reverse sequence using channel (E) button. q Select 10. 6 Press the volume (G) button and then use the channel (D,E) buttons to select the volume you want. q Select Vol 40. Timer CH. Clock Off-timer On-timer G G G 7: 10 AM TV 3 -Vol 30 Run 7 Press the volume (G) button and then use the channel (D,E) buttons to select Hold or Run. q Each press of channel (D,E) button changes the screen display as shown below. F G Move FG Adjust A Back Run Hold 5 Press the volume (G) button and then use the channel (D,E) buttons to select the channel at turn-on. q Select TV 8. 8 Press the enter (A) button.

q On-Timer setup is complete. \* If on-timer function is active (Run), the current channel will change to the set channel when on-timer is activated. \* Unless a button is pressed within three hours after the TV is turned on by the on-timer function, the TV will automatically turn off. \* On-timer function operates only in standby mode. 206-3779 36 Sleep Timer Setup \* Sleep timer turns the TV off at the preset time.

1 Use the sleep button to set sleep timer. q Each press of the sleep button changes the setting as shown below. power tv/video 1 4 Sleep --FG 2 5 8 0 3 6 9 cc 7 flashbk menu mute ch --- 10 vol enter vol 240 20 mts ch sleep 180 30 pip position pip input ch 120 90 60 q To cancel sleep time setting, press the sleep button repeatedly to select [ --- ]. q The screen display of SLEEP appears on the screen for 20 seconds prior to TV turn off. \* When the sleep time you want is displayed on the screen, don't press the sleep button again.

\* To check the remaining sleep time, press the sleep button once. \* To change sleep time setting, press the sleep button repeatedly to select time setting you want. \* If you turn the TV off after setting the sleep timer, the setting will be erased. 206-3779 37 CLOCK SETTING Video/Picture Setup \* APC adjusts the TV to the best picture appearance. APC (Auto Picture Control) 1 Use the menu button to select the Picture menu. 3 Press the volume (G) and then use the channel (D,E) buttons to select your desired picture appearance. Picture CH. APC DRP User G G G Picture CH. APC DRP User G G G Clear Optimum Soft User FG Move G Next FG Move F Back q Each press of channel (D,E) buttons changes the screen display as shown below. Clear Optimum User Soft 2 Press the volume (G) and then use the channel (D,E) buttons to select the APC option.

4 38 Press the enter (A) button. 206-3779 \* DRP improves picture outline in dark areas. DRP (Digital Reality Picture) 1 Use the menu button to select the Picture menu. 3 Press the volume (G) and then use the channel (D,E) buttons to select Clear or Soft. Picture CH. APC DRP User G G G Picture CH. APC DRP User G G G Clear Soft FG Move G Next FG Move F Back 2 206-3779 Press the volume (G) and then use the channel (D,E) buttons to select the DRP option. 4 Press the enter (A) button. 39 AUDIO / VIDEO Video/Picture Setup Manual picture control (User Option) 1 Use the menu button to select the Picture menu. 4 Press the volume (G) and then use the volume (F, G) buttons to make appropriate adjustments.

Picture CH. APC DRP User G G G Contrast FG 35 Move G Next FG Move F G Adjust A Back 2 3 Press the volume (G) and then use the channel (D,E) buttons to select the User option. q Use the channel (D,E) button to select another option. q Contrast, Brightness, Sharpness and Color are adjustable from 0 to 100. q Tint is adjustable from Red 50 to Green 50.

Press the volume (G) and then use the channel (D,E) buttons to select a picture option to adjust. 5 Press the enter (A) button. Picture CH. APC DRP User G G G Contrast Contrast Brightness Color Sharpness Tint G G G G \* APC is cancelled if you set User options. FG Move G Next F Back 206-3779 40 \* This function adjusts the pictures stability and condition when it is poor.

Fine tuning adjustment 1 Use the menu button to select the Channel menu. 3 Press the volume (G) and then use the volume (F, G) buttons to adjust the picture appearance to your preference. Channel CH. Auto program Manual program Fine G G G Channel CH. Auto program G Manual program G Fine G FG 1 GG Move G Next F G Adjust A Memory 2 Press the volume (G) and then use the channel (D,E) buttons to select the Fine option. 4 Press the enter (A) button. 206-3779 41 AUDIO / VIDEO Audio/Sound Setup \*This function selects the sound appropriate to your viewing program. DASP 1 Use the menu button to select the Sound menu. 3 Press the volume (G) and then use the channel (D,E) buttons to select the desired setting for the sound. Sound CH.

DASP Balance AVL G G G Sound CH. DASP Balance AVL G G G Flat Movie Music Sports User G FG Move G Next FG Move F Back q Each press of channel (D,E) button changes the screen display as indicated. Flat Movie Music 2 Press the volume (G) and then use the channel (D,E) buttons to select the DASP option. User Sports 4 42 Press the enter (A) button. 206-3779 Equalizer Adjustments 1 Use the menu button to select the Sound menu. 4 Sound CH. Press the volume (G) button, then use the volume (F, G) buttons to select the band you want to adjust and then use the channel (D,E) buttons to adjust the band level. DASP Balance AVL G G G FG Move G Next 0.1 0.5 FG 1.

5 5.0 10kHz F G Move Adjust A Back 2 3 Press the volume (G) and then use the channel (D,E) buttons to select the DASP option. Press the volume (G) and then use the channel (D,E) buttons to select the User option. Sound CH. DASP Balance AVL G G G Flat Movie Music Sports User User G G FG Move G Next F Back 206-3779 43 AUDIO / VIDEO 5 Press the enter (A) button. Audio/Sound Setup Sound balance 1 Use the menu button to select the Sound menu.



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3 Press the volume (G) and then use the volume (F, G) buttons to adjust the balance. Sound CH. DASP Balance AVL G G G Sound CH. DASP Balance AVL G G G 0 FG Move G Next F G Adjust A Back q Balance is adjustable from Left 50 to Right 50.

2 Press the volume (G) and then use the channel (D,E) buttons to select the Balance option. 4 Press the enter (A) button. 206-3779 44 \* AVL maintains an equal volume level automatically even if the channel is changed. AVL (Auto Volume Leveler) 1 Use the menu button to select the Sound menu. 3 Press the volume (G) and then use the channel (D,E) buttons to select On or Off. Sound CH. DASP Balance AVL G G G Sound CH. DASP Balance AVL G G G On Off FG Move G Next FG Move F Back 2 Press the volume (G) and then use the channel (D,E) buttons to select the AVL option. 4 Press the enter (A) button.

206-3779 45 AUDIO / VIDEO Audio/Sound Setup Selecting Bilingual Signal (Second Audio Program) On-screen display in stereo mode : STEREO On-screen display in bilingual mode : SAP \* Bilingual (second audio program) signal q q q q This signal contains the secondary language signal in addition to the primary language.

There are primary and secondary language and stereo modes in bilingual signals. [MONO] : The primary language is heard from left and right speakers in mono sound. [STEREO] : The primary language is heard from left and right speakers in stereo sound. [SAP] : The secondary language is heard from both left and right speakers in mono sound. 1 Use the mts button to select MTS mode. MTS Mono FG 2 Use the mts button or volume (F, G) buttons to change the audio mode. q Each press of volume (F, G) buttons changes the audio mode as shown below. Mono Stereo SAP 3 Press the enter (A) button. \* Select sound mono mode if the signal is not clear or in poor signal reception areas. \* STEREO and MONO modes are available only if included on the broadcast signal.

206-3779 46 Mute \* Mute toggles the sound On and Off. Using mute is convenient if the user needs to answer a phone call, while viewing the TV. power tv/video Press the mute button. 1 4 7 flashbk Mute 2 5 8 0 3 6 9 cc menu mute ch q To restore the sound, press the mute button or volume (F, G) buttons. q When the sound is restored, the current volume level is displayed on the screen.

vol enter vol mts ch sleep pip position pip input ch Using headphone q Headphones are an optional feature. q You can adjust the sound to headphones using the volume (F, G) buttons. While you are listening to sound through headphones, speakers are not heard. PC SOUND PC INPUT H/P S-VIDEO IN VIDEO (MONO) LAUD 206-3779 47 AUDIO / VIDEO Closed captions Closed captioning is a process which converts the audio portion of a television program into written words which then appear as subtitles on the television screen. Closed captions allow viewers to read the dialogue and narration of television programs.

Using Closed Captions Captions are the subtitles of the dialogue and narration of television programs. For prerecorded programs, program dialogue can be arranged into captions in advance. It's possible to caption a live program by using a process called real-time captioning, which creates captions instantly. Real-time captioning is normally done by professional reporters using a machine shorthand system and computer for translation into English. Captioning is an effective system for the hearing-impaired, and it can also aid in teaching language skills. · The picture at left shows a typical caption. FOLLOW ME Caption Tips · · Not all TV broadcasts include closed caption signals. Sometimes TV stations broadcast four different caption signals on the same channel. By selecting From CC 1 to CC 4, you can choose which signal you view. CC 1 is usually the signal with the captions, while Another mode might show demonstration or programming information.

Your TV might not receive caption signals normally in the following situations. · 1 Poor reception conditions are encountered: · IGNITION: Picture may flutter, drift, suffer from black spots, or horizontal streaking. Usually caused by interference from automobile ignition systems, neon lamps, electrical drills, and other electrical appliances. · GHOSTS: Ghosts are caused when the TV signal splits and follows two paths. One is the direct path and the other is reflected off tall buildings, hills or other objects. Changing the direction or position of the antenna may improve reception. · SNOW: If your receiver is located at the weak, fringe area of a TV signal, your picture may be marred by small dots. It may be necessary to install a special antenna to improve the picture. 2 3 4 5 An old, bad or illegally recorded tape is played. Strong, random signals from a car or airplane interfere with the TV signal.

The signal from the antenna is weak. The program wasn't captioned when it was produced, transmitted, or taped. 206-3779 48 Operating the Captions 1 Use the menu button to select the Special menu. Special CH. q Each time you press the channel (D,E) buttons, the caption mode is changed one by one as shown below.

CC 1 G G G G G Language Caption/Text Captions Auto off Key lock Parental FG CC 2 Move G Next CC 3 CC 4 2 3 Press the volume (G) and then use the channel (D,E) buttons to select the Caption/Text option. Text 1 Text 2 Text 3 Press the volume (G). Text 4 Special CH. Language G Caption/Text G Captions G Auto off G Key lock G Parental G FG CC 1 CC 1 CC 2 CC 3 CC 4 Text1 Text2 Text3 Text4 4 Press the enter (A) button. Move F Back q This TV is programmed to remember the caption/text mode it was last set to, when you turn the POWER off.

206-3779 49 SPECIAL FUNCTION Closed Captions Captions Setup Text Setup 1 Use the cc button to select Captions. Text services give a wide variety of information on all kind of subjects (ex. captioned program lists, weather forecasts, stock exchange topics, news for hearingimpaired---) on up to half of the TV screen. But not all stations offer text services, even though they might offer captioning. q In the event you are receiving a poor signal, an empty black box may appear and disappear, even when the text mode is selected. This is normal function in such an event. Captions Off FG 2 Press the cc button or the volume (F, G) buttons to select On and press the enter (A) button. q Each press of volume (F, G) buttons changes the caption option as shown below. 1 2 Repeat steps 1-3 on page 49. Use the channel (D,E) buttons to select: Text 1, Text 2, Text 3, or Text 4.

Off On EZ Mute Special q Captions setup is complete. CH. Language G Caption/Text G Captions G Auto off G Key lock G Parental G FG CC 1 CC 1 CC 2 CC 3 CC 4 Text1 Text2 Text3 Text4 Move F Back 3 50 Press the enter (A) button.



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206-3779 Parental Control The Parental Control Function (V-Chip) is used to block program viewing based on the ratings sent by the broadcast station. The default setting is to allow all programs to be viewed. Viewing can be blocked by the type of program and by the categories chosen to be blocked. It is also possible to block all program viewing for a time period. To use the Parental Control Function, the following must be set : 1. 2. 3.

4. Ratings and categories to be blocked. Number of hours to lock the television viewing control Set a password Enable the lock V-Chip rating and categories Rating guidelines are provided by broadcast stations. Most television programs and television movies can be blocked by TV Rating and/or Individual Categories. Movies that have been shown at the theaters or direct-to-video movies use the Movie Rating System(MPAA) only.

For Movies previously shown in theaters: Movie Ratings: \* Unblocked \* G and Above \* PG and Above \* PG-13 and Above \* R and Above \* NC-17 and Above \*X (general audience) (parental guidance suggested) (13 years and up) (restricted) (18 years and up) (adult) If you set PG-13 and Above ; G and PG movies will be available, PG-13, R, NC-17 and X will be blocked. For Television programs including made-for-TV movies: General TV Ratings: \* Unblocked \* TV-G and Above \* TV-PG and Above \* TV-14 and Above \* TV-MA Children TV Ratings: \* Unblocked \* TV-Y and Above \* TV-Y7 (general audience) (individual categories do not apply) (parental guidance suggested) (14 years and up) (mature audience) (youth) (individual content categories do not apply) (youth, 7 years and up) Content Categories: \* Dialog - sexual dialogue \* Language - adult language \* Sex scenes - sexual situations \* Violence \* F Violence - fantasy violence \* No Rating (applies to TV-PG and Above, TV-14) (applies to TV-PG and Above, TV-14 and Above, TV-MA) (applies to TV-PG and Above, TV-14 and Above, TV-MA) (applies to TV-PG and Above, TV-14 and Above, TV-MA) (applies only to TV-Y7) (blocks all viewing) (See next page to set blocking.) 206-3779 51 SPECIAL FUNCTION Parental control 1 Use the menu button to select the Special menu. Special CH. 3 Press the volume (G) and then use the channel (D,E) buttons to select the desired option.

Language Caption/Text Captions Auto off Key lock Parental FG G G G G G G Parental Aux.block MPAA Age block Content block Set hours Set password Lock on/off FG G G G G G G G G G G Unblocked Blocked Move G Next Move G Next F Back q If Parental is already set then enter the password when requested. 2 Press the volume (G) and then use the channel (D,E) buttons to select the Parental option. 4 Press the volume (G) and then use the channel (D,E) buttons to select the types of rating to block and then press the enter (A) button. Parental Aux.block MPAA Age block Content block Set hours Set password Lock on/off FG G G G G G G G G G G Unblocked Blocked Move G Next F Back q Age block and Content block options also have sub menus. So repeat steps 3 and 4 in the sub menu to set the type of blocking and rating. \* Select TV, S-Video, or Video mode to use this function. 206-3779 52 5 Setting hours for the blocking Use the channel (D,E) buttons to select Set hours and then press the volume (G) button. Use the channel (D,E) buttons to set the number of hours (Up to 99).

Press the enter (A) button. 7 Setting lock on/off Use the channel (D,E) buttons to select Lock on/off and then press the volume (G) button. Use the channel (D,E) buttons to select on or off. Press the enter (A) button. Parental Aux.block MPAA Age block Content block Set hours Set password Lock on/off FG G G G G G G G G G G 0 Hours Aux.block MPAA Age block Content block Set hours Set password Lock on/off FG G G G G G G G G G G On Off Off Move G Next F Back Move G Next F Back 6 Setting Password Use the channel (D,E) buttons to select Set password and then press the volume (G) button. Enter a four digit password. Enter it again when requested. q New password may be chosen each time blocking is set up.

q If you forget your password, you can set a new password after the block time that is currently set expires. Parental Aux.block MPAA Age block Content block Set hours Set password Lock on/off G G G G G G G G G G Enter code :---Enter code: --- 0~9 : Enter password 206-3779 53 SPECIAL FUNCTION Press the enter (A) button. Auto off \* If there is no input signal, the TV switches to standby mode automatically after 10 minutes. Auto off f 1 Use the menu button to select the Special menu.

Special CH. 3 Press the volume (G) and then use the channel (D,E) buttons to select On or Off. Language Caption/Text Captions Auto off Key lock Parental FG G G G G G G G G G G Special CH. Move G Next Language Caption/Text Captions Auto off Key lock Parental FG G G G G G G G G G G On Off Move F Back q Each press of channel (D,E) buttons toggles between On and Off. On Off 2 Press the volume (G) and then use the channel (D,E) buttons to select the Auto off option.

4 Press the enter (A) button. 206-3779 54 Key Lock \* The TV can be set up so that it can only be used with the remote control. This feature can prevent unauthorized viewing. Key lock 1 Press the menu button to select the screen display as below. 3 Press the volume (G) and then use the channel (D,E) buttons to select On or Off. Special CH. Special CH. Language Caption/Text Captions Auto off Key lock Parental FG G G G G G G G G G G Move G Next Language Caption/Text Captions Auto off Key lock Parental FG G G G G G G G G G G On Off Move F Back q Each press of channel (D,E) buttons toggles between On and Off. 2 Press the volume (G) and then use the channel (D,E) buttons to select the Key lock option. On Off \* This TV is programmed to remember which option it was last set to even if you turn the TV off.

206-3779 55 SPECIAL FUNCTION 4 Press the enter (A) button. Product Specifications Model Main body : : ZLD15A1B Horizontal size (inches) Height (inches) Thickness (inches) Weight (pounds) Horizontal size (inches) Height (inches) Thickness (inches) Weight (pounds) DC 12V/3.5A : : : : : 15.5 15.1 4.2 11.5 15.5 16.3 7.6 17.

4 Including table stand : Power requirements : \* CAUTION : For use only with Model No. SAD6012SE AC Adapter, manufactured by SERONICS CO., LTD. @@SAD6012SE AC Adapter, manufactured by SERONICS CO., LTD.

@@@Be sure to turn the power off and pull out the plug before you begin any cleaning. Screen Cleaning 1. Here's a great way to keep the dust off your screen for a while. Wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen.

2. Make sure the excess water is off the screen, and then let it air-dry before you turn on your TV.



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*Cabinet Cleaning 1. Use a soft cloth with a mild soap solution to wipe the cabinet. 2. Rinse the cloth and wipe the cabinet again. 3. Let the cabinet air-dry before turning your TV on. Extended Absence If you leave your TV dormant for a long time (such as a vacation), it's a good idea to unplug the power to protect against possible damage from lightning or power surges. If you use an off-air antenna, you may also want to disconnect it from the back of your TV before leaving.*

*206-3779 57 INFORMATION Troubleshooting Check list SYMPTOMS No power No picture or sound Poor picture but good sound Poor reception Lines in picture Ghosts (multiple images) Remote control does not work. Cannot tune desired channel. CHECK THESE THINGS Is power cord plugged in ? Is television turned on ? Check batteries in remote control. Try another channel (station trouble). Check antenna connectings. Check for local interference.*

*Adjust the antenna. Adjust the picture control. Program channel using AUTO PROGRAM. 206-3779 58 Notes 206-3779 59 INFORMATION ZENITH ELECTRONICS CORPORATION LIMITED WARRANTY Zenith will, at its option, repair or replace your product if it proves to be defective in material or workmanship under normal use during the warranty period listed below from the date of original consumer purchase.*

*The repaired or replacement product will be in warranty for the remainder of the original warranty period. This warranty is good only to the original purchaser of the product during the warranty period as long as it is in the United States, excluding US Territories. WARRANTY PERIOD LCD TV Model #: ZLD15A1B Serial #: Parts Labor One (1) year One (1) year Zenith will repair or replace defective product as set forth below THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESSED 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 EXPRESSED WARRANTY PERIOD ABOVE, AND ZENITH SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, OR INCIDENTAL DAMAGES OF ANY KIND, INCLUDING LOST REVENUES OR PROFITS, IN CONNECTION WITH THE PRODUCT. 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.*

*THE ABOVE WARRANTY DOES NOT APPLY TO: 1. Damages or problems that result from shipping, installation, maintenance, or separate system components; and 2. Damages or problems that result from 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, other causes not arising out of defect in material or workmanship, or institutional or commercial use. 3. Therefore, the cost of repair or replacement of such defective product shall be borne by the customer.*

*REPAIR OR REPLACEMENT OF DEFECTIVE PRODUCT: Call 1-800-984-9349 (Mon.- Fri. 7 AM ~ 7 PM CT) for Return Merchandise Authorization (RMA) and your returning defective product for repair/replacement. The defective product must be packaged in original box and a copy of original bill of sale must be included. Upon receipt by Zenith of the defective product under RMA, Zenith will repair and ship, freight prepaid, repaired or replacement product to you. For repair or replacement after Warranty has expired, Call 1-800-984-9349 (Mon.- Fri. 7 AM ~ 7 PM CT) Call 1-877-993-6484 (Mon.- Fri. 7 AM ~ 8 PM CT) (1-877-9ZENITH) (Sat.*

*8 AM ~ 5 PM CT) Or visit our website at <http://www.zenithservice.com> For RMA and Return of Defective Product for Warranty Service Warranty Repair or Replacement For Post Warranty Repair For Product Assistance, or Customer Assistance Retain your Sales Receipt to prove Date of Purchase, and Original Packaging Material for shipping defective product for repair when needed. 206-3779 P/NO : 3828VA0308K (ML012A) .*



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