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You can read the recommendations in the user guide, the technical guide or the installation guide for ZENITH H27F56S. You'll find the answers to all your questions on the ZENITH H27F56S in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual ZENITH H27F56S**  
**User guide ZENITH H27F56S**  
**Operating instructions ZENITH H27F56S**  
**Instructions for use ZENITH H27F56S**  
**Instruction manual ZENITH H27F56S**

**Installation and Operating Guide | Warranty**

**Model Numbers** | H27F56DT | H27F56S | H32F56S | H32F56DT |  
**Direct View TVs**



 table of contents **page 5**

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**Manual abstract:**

*REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. @@@@ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond. NOTE TO CABLE/TV INSTALLER: This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical. REGULATORY INFORMATION: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.*

*However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: · Reorient or relocate the receiving antenna. · Increase the separation between the equipment and receiver. · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. · Consult the dealer or an experienced radio/TV technician for help.*

*CAUTION: Do not attempt to modify this product in any way without written authorization from Zenith Electronics Corporation. Unauthorized modification could void the user's authority to operate this product. COMPLIANCE: The responsible party for this product's compliance is: Zenith Electronics Corporation, 2000 Millbrook Drive, Lincolnshire, IL 60069, USA · Phone: 1-847-941-8000. 2-WIRE DWARN 3/01 © Copyright 2003 Zenith Electronics Corporation 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 guide can help you get and enjoy the many years of 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. 9. Attachments Do not use attachments not recommended by the product manufacturer as they may cause hazards. 2.*

*Follow Instructions All operating and use instructions should be followed. 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. 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. 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, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions. 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. 12.*

*Power-Cord Polarization This product is equipped with a polarized alternating current power 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, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug. 7. Accessories, Carts, and Stands Do not place this product on a slippery or tilted surface, or on an unstable cart, stand, tripod, bracket, or table. The product may slide or 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. 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) 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. PORTABLE CART WARNING 3706 2-WR-POLZ PAGE 3 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 short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.*



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*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. 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. This will prevent damage to the product due to lightning and power-line surges. 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. 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.*

*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.*

*17. Overloading Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock. 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. 18.*

*Object and Liquid Entry Never push objects of any kind into this product through openings as they may touch dangerous voltage points or PAGE 4 3706 2-WR-POLZ Table of Contents Use this page as a reference for finding the pages or sections to go to set up the TV's features for the end user Do Step 1. Hook up TV to source equipment Do Step 2. Reception Setup and Channel Search Do Step 3. Customize the TV's features for the end user See the Installer's menus for TV operational features set up Safety Warnings . . . . .*

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*. Important Safety Information . . . . .*

. . . . . 3 Table of Contents . . .  
. . . . .  
. . . . .  
. . . . .

. . . . SC652Z End User remote control . . . . .  
. . . . .  
. . . . .

*Optional LP702 Installer's remote control . . . . .*

. Connections/Installation Overview . . . . .  
. . . . .

. 2 4 5 6 7 8 Other Menus and On-Screen Displays Channel/Time/Audio Display . . . .  
Sleep Timer menu . . . . .

. Volume Display . . . . .  
. . . Closed Captions/Text menu . .  
. . . Ch Preview menu . .  
. . . . . Ghost Channel Display .

. . . . . Alarm menu . . . . .  
. . . . .  
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. 23 23 23 23 23 23 Step 1. TV Connections TV/VCR/Cable Box/and other Equipment Hookup TV Hookup source of the picture and sound.) (SLEEP) TIMER Press repeatedly to choose a TV turn-off time up to 4-hours. Use to set AM/PM on the Alarm menu. CH PREVIEW remote control part number SC652Z 124-213-18 (LG 6710V00108A) PAGE 6 206-3888 LP702 Optional Installer's Remote Note: This remote is NOT supplied with the TV. A list of the keys on the optional LP702 installer's remote and what they do CC (CLOSED CAPTIONING) Direct access to closed captions. Press ENTER to exit. POWER Turns TV On and Off. FLASHBK (FLASHBACK) Returns to the last channel viewed.

MUTE Turns sound Off and On, while the picture remains. POWER FLSH CC BK MUTE TV/FM Selects TV or Radio operation on TVs equipped with FM radio. VOLUME (DOWN/UP) Adjusts the sound level. TV /FM VO LUM E CHAN NEL 1 4 7 0 2 5 8 3 6 9 ENTER CHANNEL (UP/DOWN) Selects next available channel and the video channel. NUMBER KEYPAD Used to key-in numbers and select channels directly; key-in channel numbers and press ENTER to go to the new channel. ALARM Press to go to the Alarm menu. Set a time for the TV to turn itself on. CHANNEL PREVIEW Gives installer access to the Guest's menus. Displays the available TV channels and hotel guest's Parental Control menu (if active). Selects the Video source.

(Use the Audio/Video jacks on the back of the TV as the source of the picture and sound.) ENTER Press to view the Channel/Time display or to remove any on-screen display or menu. TIMER Press repeatedly to select preset TV turnoff time from 10 minutes up to 4-hours. Sets AM or PM in the Clock/Alarm menus.

TIMER MENU ALARM SELECT CH PREVIEW ADJ ADJ MENU/SELECT/ADJ (ADJUST) Adjusts on-screen menus and options.

Press MENU repeatedly to scroll through menus. Use SELECT to choose an option and ADJ (adjust) Left/Right to change the selected option. remote control part number LP702 124-213-04 206-3740 PAGE 7 Connections/Installation Overview Use this page for reference when connecting source equipment. To hookup source equipment, refer to the next page; shows pages to go to for equipment hookup options. Also, see the front connections panel hookup options on page 19.

COMPONENT VIDEO INPUT Pr, Pb, Y, R-L AUDIO Connection for standard component video equipment or DVD player. DVD Player, 480i SDTV Set top Box, 480i Typical TV Back MATRIX OUT Use to hookup external speaker. Matrix Out ANTENNA/CABLE Use to hookup your antenna or cable system. Antenna Cable Pr Component Video Input Pb R Audio L Y M.P.I. PORT Use with Clone Programmer. M.P.I.

Video In R Audio In L S-Video Out S-Video In R Audio In L S-VIDEO OUT Connect to external S-Video device input. S-VIDEO IN R-L AUDIO IN Connect S-Video equipment to these jacks. VIDEO IN R - L AUDIO IN Use these input jacks to connect external audio/video equipment.



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PAGE 8 206-3686 Hookup Directory IMPORTANT!! Use this page to decide where you need to begin your set up. First, find the line below that best describes what you want to do, then go to that page number. Antenna only If you are using an antenna and no other equipment, go to . . . . .

. . . . .  
. . . . .  
. . . . .  
... page 10 Cable only If you have cable service and no other equipment, go to . . . . .

. . . . .  
... page 11 Cable TV Wall Jack In Out Cable Box Antenna with VCR If you are using an antenna and have a VCR, go to . . . . .

. . . . .  
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. . . . .  
... page 12 Cable and VCR If you have cable service and a VCR, go to . . . . .

. . . . .  
... page 13 Cable TV Wall Jack In Out Cable Box S-Video/Speaker If you want to connect an S-Video VCR/DVD Player etc. . . . .

. . . . .  
... page 14 If you want to hook up a component video device . . . . .

. . . . .  
... page 15 Send the TV sound to an external audio system or monaural speaker . . . . .

. . . . .  
... page 16 S-Video loopout setup . . . . .

. . . . .  
... page 17 206-3686 PAGE 9 Hook Up An Over-The-Air Antenna Connect an off-air antenna Antenna Typical TV Back Matrix Out 1 2 3 Locate the Antenna/Cable jack on the back of the TV. Connect the antenna that runs from the wall directly to this jack, according to one of the connection diagrams shown to the right. Remove the back of the remote and put in two AA batteries.

Flat Wire (300 ohm) Antenna Cable Pr Component Video Input Pb R Audio L Y M.P.I. Video In R Audio In L S-Video Out S-Video In R Audio In L 300/75 ohm Adapter Back of Remote 4 Plug in your TV. This TV is designed to operate on standard current, 120-volt 60 Hertz AC. Do not attempt to operate it on DC Current. Typical TV Back Antenna Matrix Out 120 Volt 60 Hz AC Antenna Cable Pr Component Video Input Pb R Audio L If you have a 75 ohm RF cable, then you don't need any adapters! A 300 to 75 ohm adapter is not included with the Zenith TV. RF Coaxial Wire (75ohm) Y M.P.I.

Video In R Audio In L S-Video Out S-Video In R Audio In L Mini glossary 75 OHM RF CABLE The wire that comes from an off-air antenna or cable service provider. Each end looks like a hex shaped nut with a wire sticking through the middle, and it screws onto the threaded jack on the back of your TV. A small device that connects a two-wire 300 ohm antenna to a 75 ohm RF jack (Antenna/Cable). They are usually about an inch long with two screws on one end and a round opening with a wire sticking out on the other end. 300 TO 75 OHM ADAPTER PAGE 10 206-3686 Hook Up Cable Service (CATV) Connect cable service to the TV Cable TV Wall Jack Typical TV Back 1 2 3 Locate the Antenna/Cable jack on the back of the TV. Connect the CATV cable that runs from the wall according to one of the connection diagrams shown to the right. Remove the back of the remote and install two AA batteries. RF Coaxial Wire (75ohm) Antenna Cable Matrix Out Pr Component Video Input Pb R Audio L Y M.P.I.

Video In R Audio In L S-Video Out S-Video In R Audio In L Back of Remote Cable TV Wall Jack 4 Plug in the TV. The TV is designed to operate on standard current, 120-volt 60 Hertz AC. Do not attempt to operate it on DC Current. 120 Volt 60 Hz AC In Out Cable Box output switch 3 4 Typical TV Back If you're using a cable box, tune the TV to channel 3 or 4 and use your cable box to change channels. If you're using a cable box, Auto Program might only find the channel your cable service is on (usually channel 3 or 4).

Don't worry, that's all you need! Matrix Out Antenna Cable Pr Component Video Input Pb R Audio L Y Video In RF Coaxial Wire (75ohm) R Audio In L M.P.I. S-Video Out S-Video In R Audio In L 206-3686 PAGE 11 Hook Up Over-The-Air Antenna and VCR Antenna VCR Back Connect your off-air antenna and VCR to the TV Flat Wire (300 ohm) VCR Back AV Panel output In switch 3 4 Out Video Audio 1 2 3 Locate the Antenna/Cable (In) jack on the back of the VCR. Connect the wire that runs from the antenna directly to this jack, according to one of the connection diagrams shown to the right. Remove the back of the remote and put in two AA batteries. Antenna Cable 300/75 ohm Adapter Typical TV Back Matrix Out Pr Component Video Input Pb R Audio L Y M.P.I. Video In R Audio In L A/V cables not included with TV S-Video Out S-Video In R Audio In L Back of Remote 4 Plug in the TV. The TV is designed to operate on standard current, 120-volt 60 Hertz AC. Do not attempt to operate it on DC Current. Antenna VCR Back 120 Volt 60 Hz AC VCR Back AV Panel output In switch 3 4 RF Coaxial Wire (75 ohm) Out Video Audio No A/V cables are included with the Zenith TV. Without A/V cables, most VCRs will not play videocassettes in stereo sound. Typical TV Back Matrix Out Antenna Cable Pr Component Video Input Pb R Audio L Y M.

P.I. Video In R Audio In L A/V cables not included with TV S-Video Out S-Video In R Audio In L PAGE 12 206-3686 Hook Up Cable Service (CATV) and VCR Cable TV Wall Jack Connect a VCR and Cable service to the TV VCR Back In Out Cable Box output switch 3 4 VCR Back AV Panel output In switch 3 4 Out Video Audio RF Coaxial Wire (75 ohm) 1 2 3 Locate the Antenna/Cable (In) jack on the back of the VCR. Typical TV Back Connect the CATV cable that runs from the wall directly to this jack, according to one of the connection diagrams shown at right. Remove the back of the remote and install two AA batteries. Antenna Cable Matrix Out Pr Component Video Input Pb R Audio L Y M.P.I. Video In R Audio In L A/V cables not included with TV S-Video Out S-

*Video In R Audio In L Back of Remote 4 Plug in the TV. The TV is designed to operate on standard current, 120-volt 60 Hertz AC. Do not attempt to operate it on DC Current. Cable TV Wall Jack VCR Back 120 Volt 60 Hz AC VCR Back AV Panel output In switch 3 4 RF Coaxial Wire (75 ohm) Out Video Audio Tune the VCR and television to channel 3 or 4 and use the cable box to change channels. No A/V cables are included with your TV. Without A/V cables, most VCRs will not play videocassettes in stereo sound. Typical TV Back Matrix Out Antenna Cable Pr Component Video Input Pb R Audio L Y M.*

*P.I. Video In R Audio In L A/V cables not included with TV S-Video Out S-Video In R Audio In L 206-3686 PAGE 13 Hook Up S-Video VCR/DVD Player Your Zenith TV may be connected to a Super-VHS VCR or DVD player through the S-Video Input located on the TV's connection panel. Use the TV's S-Video In jack to connect other S-Video type equipment. To use this equipment you must use the optional LP702 remote control, go to the Source menu on page 21. VCR Back 1 2 Hook up your S-Video type VCR or DVD player to the TV according to the diagram.*



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Remove the back of the remote and put in two AA batteries. VCR Back AV Panel S-Video Out Output Switch 3 4 Audio Out RL Back of Remote Typical TV Back 3 Plug in your TV. The TV is designed to operate on standard current, 120-volt 60 Hertz AC. Do not attempt to operate it on DC power. Antenna Cable 120 Volt 60 Hz AC Matrix Out Pr Component Video Input Pb R Audio L S-Video cables not included with TV M.P.I. Y Video In R Audio In L 4 If you wish to "daisy chain" more than one TV to receive the S-Video signal, make the following connections with an S-Video cable. Insert one end of the cable into S-Video Out and the other end into the S-Video In jack on your second Zenith TV, or equivalent input for any other brand of TV.

See page 17. Note: S-Video loopout must be enabled for this feature to work. Refer to Installers menu pages, Installer menu item 33-I, Y/C Loopout. S-Video Out S-Video In R Audio In L 4 PAGE 14 206-3686 Hook Up Component Video The Zenith TV may be connected to a Component Video device like a DVD player or other component video source. To use this equipment you must use the optional LP702 remote control, refer to the Source menu on page 21. 1 2 Hook up your component video device according to the diagram at the right. Remove the back of the remote and install two high-quality alkaline AA batteries. DVD Player with Component Video S-VIDEO OUT VIDEO R-AUDIO L-/MONO COMPONENT VIDEO OUT Back of Remote Y Pr Pb R L 3 Plug in your TV. The TV is designed to operate on standard current, 120-volt 60 Hertz AC. Do not attempt to operate it on DC power. 120 Volt 60 Hz AC Typical TV Back Matrix Out Antenna Cable Pr Component Video Input Pb R Audio L Y M.P.I. Video In R Audio In L S-Video Out S-Video In R Audio In L 206-3858 PAGE 15 External Monaural Speaker Hookup Send the sound from the TV to an external speaker. To use this hookup, see your external amplifier instruction manual.

1 Audio Output: Use the Matrix Out jack to connect an external monaural speaker or amplifier to the TV. Speaker Back Audio In Typical TV Back Matrix Out Antenna Cable Component Video Input Pr Pb R Audio L A/V cables not included with TV Y M.P.I. Video In R Audio In L S-Video Out S-Video In R Audio In L PAGE 16 206-3686 S-Video Loop-out Connections Use the S-Video Out jack to connect up to four additional TVs in a "daisy-chain".

To use this setup, refer to the Channel Preview menu on page 23. 1 2 3 Setup for Looping-Out the Master TV's S-Video Image to other TVs 1. Make connections to the S-Video Out jack on the Master TV. 2. Connect S-Video cables to the daisy-chained TV's S-Video input jacks as shown. 3. On the "Daisy-chained" TVs, select the S-Video Input for the picture source. Viewing Sources Note: Follow instructions supplied with your TV(s) for selecting viewing sources. Picture should appear on the Master and other TVs connected in series. Note: S-Video loopout must be enabled for this feature to work.

Refer to Installer menu pages, Installer item 33-I, Y/C Loopout. Typical TV Back Matrix Out Antenna Cable Pr Component Video Input Pb R Audio L Y M.P.I. Video In R Audio In L S-Video Out S-Video In R Audio In L ABC ABC ABC ABC S-Video Loop-out from Master TV to other TVs 206-3740 PAGE 17 Auto Program (Channel Search) SETUP MENU Use Auto Program to specify over-the-air Antenna or Cable Service incoming signal source and automatically store all of the channels found by the channel search in non-volatile memory AUTO PROGRAM ADD/DEL/BLNK CH. LABELS CLOCK SET TIMER CAPTIONS LANGUAGE TO PROGRAM 1 2 3 4 5 6 7 With the optional LP702 Installer's remote control in hand, press POWER to turn the TV on. POWER Press MENU repeatedly until the Setup menu appears. Using SELECT on the remote control, highlight Auto Program on the screen. Press the Right or Left ADJ arrow to go to the Auto Program menu. Using SELECT, choose either Cable TV or Off-Air Antenna on your screen.

Press the Right or Left ADJ arrow to begin the Channel Search. Press ENTER when the channel search is complete. Auto Program finds channels being received by the TV tuner. Cable will not work unless you subscribe to a cable service. Once the channel search is complete, use the features on the following pages to: Add/delete channels, Include channel labels, so that they appear on the channel/time/audio display.

Choose from the preset label selections or make custom labels. Use your own names to more easily identify the station/network providing the program. 1 CC FLSH TV/FM BK MUTE VO LUM E CHAN NEL 1 4 7 0 2 5 8 3 6 9 ENTER 2 TIMER MENU ALARM 7 3/5 ADJ SELECT CH PREVIEW ADJ 4/6 Mini glossary OFF-AIR-ANTENNA CABLE If only over-the-air channels are available, select Off-Air-Antenna. If you subscribe to a cable service, select Cable. PAGE 18 206-3686 Front Panel Controls/Source Inputs Using the front panel controls to operate the TV A A B C D E F G H power Power Turns TV on and off.

CC (Captions/Text) Turns selected caption/text option on and off. Mute Turns TV sound on and off. Volume (Left/Right) Decreases/increases sound level. Channel (Down/Up) Chooses next available channel. R - Audio - L (In) Right/Left Channel audio input jacks. Video (In) Input for a video signal from auxiliary equipment. S-Video (In) Input for an S-Video signal from S-Video (Y-C) equipment. CC Typical TV Front Panel mute vol ch R-audio-L video S-video B C D E F G H Typical Front Panel Controls The front Video jacks are Auto Sense source connections. With cables connected, the TV will automatically change its source setting to CAMPORT, or FRNT Y/C (Front S-Video) as indicated on the channel/time display. If you have a device connected to the front Video or S-Video jack and the Auto sense source connection is turned on, you will not be able to change channels using the TV tuner until you have disconnected the device.

The front Video input jack has a priority over the front S-Video input jack. If you have cables connected to both the front Video jack and the front S-Video jack (and the Auto sense source connection is turned on in the Installer menu), only the image from the front Video input will be displayed. 206-3888 PAGE 19

Picture/Sound Source Selection Note: The Installer, by changing options in the service menu, can change the default setup and determine what source connections are available. Auto Source Sense connections, front video inputs Camport and S-Video (Y-C), override all other source inputs. The Auto Sense feature is factory preset to be on; for both front video inputs. The Source menu shows what picture and sound sources are available. Camcorder R-Audio - L Video In S-V ideo VCR R-AUDI O-L VID EO AUD IO/VID EO OUT S-Video Typical TV Back R-AUDI O-L AUDIO/ S-VIDEO S-VIDE O OUT DVD Matrix Out S-VIDE O R-A UDIO-L OUTPUT Antenna Cable Component Video Input Pr Pb R Audio L Audio/Video AUDIO/ R-AUDI O-L VIDEO VIDEO OUT Y M.



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P.I. Video In R Audio In L S-Video Out S-Video In R Audio In L Component Video R -AUD IO-L COMPONENT VIDEO Pr EO Pb Front/Rear Connection Panels Typical Accessory Equipment 1 2 Hook up a device to front Video/Audio In, to use this Auto Sense source, disconnect when finished.

To access other available sources, use the Source menu or use Channel Up/Down to select AUX input. Note: The rear Video/Audio In jacks can also be selected by keying in 999 on the remote number keypad. Auto Sense source connections override all other sources. The front Video and S-Video In jacks are Auto Sense source connections. If you have devices connected to these jacks, you will not be able to change channels using the TV tuner until you have disconnected those devices.

Connectable Sources See pages 9-17 Antenna/Cable Camport (Front Video input) Front S-Video Aux Video (Rear Video inputs) Rear S-Video Component Video PAGE 20 206-3740 Source Menu SOURCE MENU Selecting picture and sound sources ANTENNA/CABLE CAMPORT FRONT S-VIDEO REAR S-VIDEO COMPONENT (Y Pb Pr) AUX VIDEO PRESS ENTER PRESS SELECT TO CHANGE OR < > KEYS TO ACTIVATE 1 2 3 Press MENU repeatedly on the optional LP702 Installer's remote until the Source menu appears. Choose the input source using SELECT. Press ENTER, or the Left/Right ADJ arrow to go to the selected source and to remove the menu. Notes: · Selectable sources appearing in the Source menu may vary depending on the installation setup for Auto Sense sources in the Installer menu. · Auto Sense sources appear on the TV screen automatically when they are connected.

POWER FLSH CC BK MUTE TV /FM VO LUM E CHAN NEL 1 4 7 0 2 5 8 3 6 9 ENTER 3 MENU ALARM 1 TIMER 2 ADJ SELECT CH PREVIEW ADJ 3 Mini glossary SOURCE AUTO SENSE SOURCE Input(s) providing the picture and sound to the TV. Input(s) that the TV automatically switches to when connected. 206-3686 PAGE 21 On-Screen Menus/Displays Overview Descriptions of the menus and on-screen status displays Using MENU and the other keys indicated on the optional Installer's remote, the user can access the menus/displays described below. Menu Name Page Description ON-SCREEN MENUS SOURCE MENU SETUP MENU Auto Program Add/Del/Blk Channel Labels 21 Selects input sources to see and hear on the TV. Adjusts the basic characteristics of the TV 18 24 25 Automatically finds and stores active channels to scroll through using Channel Up/Down. Manually pick and choose which active channels will appear when using Channel Up/Down. Labels the channels with their network names (ABC, CBS, HBO, etc.). Creates custom channel labels. Sets the time on the TV.

Sets the TV's automatic turn On/Off times. Selects Caption/Text options. Chooses the language the on-screen menus will appear in. Customizes the sound. The options are: Bass, Treble, Balance, Audio Mode, Front Surround, SoundRite, Audio Pref. Customizes the picture. The options are: Contrast, Brightness, Color, Tint, Sharpness, Picture Pref. Allows user to block program content or the A/V sources for up to 99 hours, with the use of a password. Custom Ch Labels 26 Clock Set Timer Captions Language 27 28 29 30 A U D I O M E N U 31 VIDEO MENU PARENTAL CONTROL MENU 32 33 Other Menus and On-Screen Displays Volume Channel/Time Ch Preview Captions/Text Sleep Timer Ghost Channel Alarm 23 23 23 23 23 23 Shows current sound level setting; press VOLUME Up/Down to activate. Shows the current time, channel, video and type of incoming audio signal, or mute, and XDS\* info; press ENTER to activate.

Displays the available channels list; press CH PREVIEW. Turns selected Caption/Text option On and Off; press CC to activate. Sets the time the TV will turn off. Shows the current channel number in red scrolling down the screen. Refer to Installer menu to turn off.

Sets a time for the TV to automatically turn itself on. \*XDS (Extended Data Service) Shows title of program, if available on broadcast. PAGE 22 206-3686 Other Menus & On-Screen Displays Press the remote keys indicated below to access these menus and displays Ch 25 - PBS 7:15 PM MONO VOLUME XDS Information As Available CHANNEL PREVIEW -----AUX 2 ---CH TO SELECT, ENTER TO QUIT CC FOR PARENTAL CONTROL 5 9 20 32 39 Volume Display Press VOLUME. Shows sound level. Channel/Time/Audio Display Press ENTER.

Shows selected channel or source, current time if the clock has been set, incoming audio signal, and XDS info if available. Ch Preview Menu Press CH PREVIEW. Displays list of the available TV Channels, Aux source and provides access to the Parental Control menu. 21 CC CAPTIONS 1 IS ON Sleep Timer Menu Press TIMER. Shows remaining time before TV turnoff. Set a preset turnoff time from 10 minutes up to 4 hours. Ghost Channel Display Channel number appears in red on the right side of the picture and slowly scrolls downward. To disable Ghost Channel, see Installer menus. Closed Captions Menu Press CC. Turns selected option on or off.

See Caption/Text page to select options. Alarm Menu Press ALARM. Sets a time for the TV to automatically turn itself on. 206-3686 PAGE 23 Setting Add/Delete/Blank Channels SETUP MENU AUTO PROGRAM ADD/DEL/BLNK CH. LABELS CLOCK SET TIMER CAPTIONS LANGUAGE CH 44 ADDED Fine-tune the channel selection list 1 2 3 Press the MENU key on the Installer's remote so the Setup menu appears. POWER Press SELECT repeatedly to highlight the Add/Del/Blk option. TV FLSH CC BK MUTE /FM Using either the NUMBER keypad and ENTER or the Channel Up/Down arrow on the remote, select a channel. (If adding a deleted channel, you will need to use the NUMBER keypad and ENTER.) Using the Right/Left ADJ arrow, specify whether that channel is Added, Deleted, or Blank. To continue, select another channel and repeat Step 4.

When you are finished, press ENTER to remove menu. VO LUM E CHAN NEL 1 4 2 5 8 3 6 9 ENTER 3 4 5 3 7 0 Adding Aux, VCR 3, VCR 4, to the Channel Preview List Go to the Setup menu, select the Add/Del/Blk option. Use Channel Up/Down to select the option and choose Added. Note: If the option was turned off in the Service menu, you will have to reinstate it before it can appear as an option in the Channel Preview list. Note: You can specify Add, Delete or Blank for VCR3, VCR4, and Aux.

Caution: If you delete CH3, VCR3 is also deleted, if you delete CH4, VCR4 is also deleted and vice versa. If you delete a channel, it isn't gone for good. Just select it using the NUMBER keypad on the remote, or add it later. Mini glossary ADDED 3/5 1 TIMER REMOVES ALARM 2 ADJ SELECT CH PREVIEW ADJ 4 Adds new channels to the list that the user can scroll through using Channel Up/Down. DELETED Removes channels for one reason or another from the channel scan list available using Channel Up/Down.



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BLANK Deletes the video but retains the audio, if present on a channel. PAGE 24 206-3686 Setting Preset Channel Labels SETUP MENU Selecting channel names from the preset Channel Labels (See the next page to create your own custom channel labels) AUTO PROGRAM ADD/DEL/BLNK CH. LABELS CLOCK SET TIMER CAPTIONS LANGUAGE CH 32 ABC 1 2 3 4 5 Using either the NUMBER keypad or the Channel Up/Down arrows on the optional Installer's remote, select a channel. Press MENU repeatedly on the optional LP702 Installer's remote until the Setup menu appears. Choose the Ch Labels option using SELECT. POWER FLSH CC BK MUTE TV/FM VO LUM E CHAN NEL 1 2 5 8 3 6 9 ENTER 1 Pressing either the Right/Left ADJ arrow repeatedly, pick the label you want from the available selections; such as A & E. To continue channel labeling, select another channel or if you are finished, press ENTER to remove menu. 4 1 7 0 5 2 Some channels already provide a channel label which is included with the broadcast signal. Labeling the channels helps identify which familiar nationwide channels are available. i.

e., A & E - Arts and Entertainment, CNN - News, ESPN - Sports, HBO - Movies and so on... TIMER MENU ALARM 3 ADJ SELECT CH PREVIEW ADJ 4 Mini glossary ---NONE LAB 1, thru LAB 20, The 4 dashes will allow a channel label to appear; if one is provided by the broadcaster. Prevents any channel label from appearing. Are the 20 programmable labels. These 20 labels can be customized with 5 characters spaces available for each label. 206-3686 PAGE 25 Creating Your Own Channel Labels SETUP MENU Overview Channel Labels help the user identify the channel or network being viewed. In the Setup menu with the CH LABELS option highlighted, use the Adjust Left/Right arrow to scroll through the available channel labels, such as, A&E, AMC, ESPN, HBO, etc.

These are a series of alphabetically organized preset labels from which you can choose the more common networks. Use any of these or create custom labels. - - - -, The 4 dashes will allow a channel label to appear; if one is provided by XDS. (Extended data service) NONE, prevents any channel label from appearing. LAB 1, thru LAB 20, are the 20 programmable labels.

The 20 programmable labels can be customized for your needs. Each programmable label has 5 characters spaces available. AUTO PROGRAM ADD/DEL/BLNK CH. LABELS CLOCK SET TIMER CAPTIONS LANGUAGE CH 32 MYLAB PRESS VOL UP/DN TO SELECT CHAR POWER FLSH CC BK MUTE TV/FM E VO LUM E CHAN NEL To Program a Channel Label First select a channel using the NUMBER keypad and ENTER or the Channel Up/Down arrow, on the optional Installer's remote control. (To select a deleted channel, use the NUMBER keypad and ENTER.

) To program a channel label, go to the Setup menu and select CH LABELS. Use the Right/Left ADJ adjust arrow to scroll the available preset labels. Scroll past - - - -, scroll past NONE, to go to the first programmable label slot, LAB 1. Notice that the label appears with the title LAB 1. B 1 4 7 0 2 5 8 3 6 9 ENTER C D TIMER MENU ALARM SELECT CH PREVIEW Creating a Custom Channel Label Use Volume Up/Down to select the first letter space (space blinks). Use Channel Up/Down to change the character to one of the 255 characters available. (A blank letter space is available if required, after the "!" symbol.) ADJ ADJ A In Channel Labels Mode, use the following keys to: A. Adjust Left/Right Moves to the next label. - - move to the next or previous label.

B. Volume Up/Down Selects character spaces - - move to the next or previous character space. C. Channel Up/Down Scrolls through the available characters. D. ENTER Accepts the custom channel label and remove the menu. E. MUTE Removes any custom label, inserts 'NONE', - - if any custom label character space is selected. PAGE 26 You can press and hold down Channel Up/Down to scroll through the available characters rapidly. 206-3686 Clock Setup (Auto/Manual) SETUP MENU AUTO PROGRAM ADD/DEL/BLNK CH.

LABELS CLOCK SET TIMER CAPTIONS LANGUAGE CLOCK MENU TO SET CLOCK CLOCK SET TIME ZONE DAY. SAVING AUTO USE SELECT TO CHOOSE USE ADJ TO CHANGE AUTO OFF ON AUTO EASTERN CENTRAL MOUNTAIN PACIFIC SETUP MENU AUTO PROGRAM ADD/DEL/BLNK CH. LABELS CLOCK SET TIMER CAPTIONS LANGUAGE CLOCK SET TIME SET TO SET CLOCK CLOCK MENU MANUAL 10:43 AM TIMER USE SELECT TO CHOOSE USEADJ TO CHANGE Clock Auto/Manual Operating Modes Setup On the optional LP702 Installer's remote, use MENU, SELECT, and the ADJ Left/Right arrows to choose and set up the Clock menu options. Use the number keypad, or the Left/Right ADJ arrows, to set the time. Use TIMER to set AM/PM.

Clock Set Auto: TV automatically sets the time. Time Zone: User can choose the time zone or have the TV set it automatically. Day. Savings: User can choose to have daylight savings adjust the clock time one hour, or have the TV adjust it automatically. Manual: User sets the time on the clock.

ADJ ADJ 1 2 5 8 3 6 9 ENTER D 4 7 0 A D TIMER MENU ALARM SELECT CH PREVIEW E B C Press ENTER repeatedly to remove menus. The clock can also be set using 24 hour "military time." For p.m. settings add 1200. For example, to set 6:30 p.m., add 1200 to 630, = enter 1830. For Auto Clock Set to work, the TV must be tuned to a local PBS station. If the TV does not set the time, set the clock time manually.

Mini glossary TIME HOURS A four-digit figure broken down into hours and minutes, used to enter the time when setting the clock or programming timers. First two digits that are entered when setting the clock or programming timers. Clock time can be set using either the number keypad or the Left/Right ADJ arrows. Use TIMER to set AM/PM. MINUTES The last two digits that are entered when setting the clock or programming timers. TIMER Chooses AM or PM when setting the clock. 206-3686 PAGE 27 On/Off Timers Setup SETUP MENU TIMER ON TIME OFF TIME 9:00 AM 7:00 PM ON Set up On/Off Timers Note: On/Off Timers operate independently of each other. AUTO PROGRAM ADD/DEL/BLNK CH. LABELS CLOCK SET TIMER CAPTIONS LANGUAGE TO SET TIMER ON/OFF TIMER 1 2 3 4 On the optional LP702 Installer's remote, press MENU repeatedly until the Setup menu appears. Press SELECT repeatedly to highlight the Timer option, press the Left/Right ADJ arrow.

Use SELECT to choose an option. Use the number keypad and/or the Left/Right ADJ arrows to enter the times. Use the TIMER key to set AM/PM. Press ENTER to remove menu and return to TV viewing. Your options are: · On Time Sets a time that the TV will turn itself On each day. · Off Time Sets a time that the TV will turn itself Off each day. · On/Off Timer Enables or disables the On/Off Timer functions. (The On/Off Timer can be disabled but the settings will be retained.



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) The clock must be set before the Timers will function. The Off Timer can be used to turn the TV off at the preset time.

Note: The On Timer does not have to be set to use the Off Timer feature. POWER FLSH CC BK MUTE TV /FM VO LUM E CHAN NEL 1 4 2 5 8 3 6 9 ENTER 3 7 0 4 1 3 2/3 2/3 TIMER MENU ALARM SELECT CH PREVIEW ADJ Mini glossary TIME HOURS A four-digit figure broken down into hours and minutes, used to enter the time when setting the clock or programming timers. First two digits that are entered when setting the clock or programming timers. MINUTES The last two digits that are entered when setting the clock or programming timers. TIMER Choose AM or PM with the TIMER button when setting the clock. PAGE 28 206-3686 Captions (Caption/Text Setup) Set up Closed Caption/Text options for the user SETUP MENU AUTO PROGRAM ADD/DEL/BLNK CH. LABELS CLOCK SET TIMER CAPTIONS LANGUAGE CAPTIONS SETUP OPER. MODE SEL. CC TYPE CC CAPTION CC ON MUTE CAPTION LOCK PRESS SELECT TO CHOOSE PRESS ADJ TO CHANGE ON, OFF ON, OFF ON, OFF QUICK/MUTE TO SET CAPTIONS CAPTION 1 CAPTION 2 CAPTION 3 CAPTION 4 TEXT 1 TEXT 2 TEXT 3 TEXT 4 SETUP MENU AUTO PROGRAM ADD/DEL/BLNK CH. LABELS CLOCK SET TIMER CAPTIONS LANGUAGE CAPTIONS SETUP OPER.

MODE SEL. CC TYPE CAPTION LOCK STANDARD CAPTION 1 CAPTION 2 CAPTION 3 CAPTION 4 TEXT 1 TEXT 2 TEXT 3 TEXT 4 OFF ON, OFF TO SET CAPTIONS PRESS SELECT TO CHOOSE PRESS ADJ TO CHANGE Closed Captions/Text Operating Modes Setup On the optional LP702 Installer's remote, use MENU, SELECT, and ADJ (Left/Right) arrows to choose the Closed Captions/Text mode and to set up other menu options for the user. Quick/Mute When CC is pressed: User can only turn Captions On/Off. (If CC on Mute is On, shows captions option on mute.) (If locked, type is retained with Power On/Off.) When CC is pressed: User can choose a captions type. (If locked, type is retained with Power On/Off.) POWER FLSH CC BK MUTE TV /FM 1 CHAN NEL V M OLU E 1 2 5 8 3 6 9 ENTER Standard 4 7 Press ENTER to remove menus. 0 Standard closed captioning is available using the Caption 1 option. TIMER MENU ALARM 2 Caption/Text are features which allow the TV to receive the closed caption and/or text options if made available by the broadcaster.

Availability and functionality of Caption/Text options are determined only by each broadcaster and may not be available in your area. Mini glossary CAPTIONS TEXT SELECT CH PREVIEW The term for the words that scroll across the bottom of your TV screen; usually the audio portion of the program provided for the hearing impaired. The term for the words that appear in a large black frame and almost cover the entire screen; usually messages provided by the broadcaster. 206-3686 PAGE 29 Language Menu SETUP MENU Choose English, Spanish, (Español) or French (Français) for the on-screen menus. AUTO PROGRAM ADD/DEL/BLNK CH.

LABELS CLOCK SET TIMER CAPTIONS LANGUAGE ENGLISH 1 2 3 4 On the optional LP702 Installer's remote, press MENU repeatedly until the Setup menu appears. Use SELECT on the remote control, to highlight the Language option on your screen. Use the Left/Right ADJ arrow to choose one of the following options: English, Spanish (Español) or French (Français). Press ENTER to return to TV viewing. POWER FLSH CC BK MUTE TV /FM VO LUM E CHAN NEL 1 4 7 0 2 5 8 3 6 9 ENTER 4 1 TIMER MENU ALARM 2 ADJ SELECT CH PREVIEW ADJ 3 PAGE 30 206-3686 Audio Menu AUDIO MENU Adjust the sound to your preference BASS TREBLE BALANCE AUDIO MODE FRONT SURR SOUNDRITE AUTO PREF STEREO OFF OFF CUSTOM 1 2 On the optional LP702 Installer's remote, press MENU repeatedly until the Audio menu appears.

Using SELECT on the remote control, highlight the audio option you want to change. Choose from: · Bass: Increases/decreases lower-end sounds. · Treble: Increases/decreases higher-end sounds. · Balance: Allows you to put the sound more to the left or right channel. · Audio Mode: Choose from Stereo sound, Mono, or 2nd Audio/SAP. · Front Surround: Turns front surround on and off. · SoundRite: Turns the uniform volume feature on and off. · Audio Pref: Selects Custom or Preset. POWER FLSH CC BK MUTE TV /FM VO LUM E CHAN NEL 1 4 7 0 2 5 8 3 6 9 ENTER 4 1 TIMER MENU ALARM 3 4 Use the Left/Right ADJ arrow to adjust or change the option you have selected. Use SELECT to choose other Audio menu options, or press ENTER to remove the menu.

2 ADJ SELECT CH PREVIEW ADJ 3 Not all programming is broadcast in stereo sound or has 2nd Audio SAP. Mini glossary STEREO SOUND MONO SOUND CUSTOM PRESET Stereo (stereophonic) sound refers to audio that's divided into right and left sides. Mono (monaural) sound is one channel of sound. On more than one speaker, all the speakers play the same audio. Your own audio menu settings. Resets audio menu values to their original settings. 206-3686 PAGE 31 Video Menu VIDEO MENU CONTRAST BRIGHTNESS COLOR TINT SHARPNESS PICTURE PREF Use the Video Menu to customize the picture appearance CUSTOM 1 On the optional LP702 Installer's remote, press the MENU key repeatedly until the Video menu appears. Your options are: · Contrast: Adjusts the level of difference between white and black in the TV picture. The more contrast, the brighter the picture appears. · Brightness: Increases or decreases amount of white in the TV picture.

· Color: Adjusts levels of all colors in the TV picture. · Tint: Adjusts the relative amounts of red and green in the picture. · Sharpness: Raises or lowers the definition of the picture. The lower the level, the softer the image will appear. · Picture Preference: Choose either Custom or Preset. Custom allows you to set the picture the way you want. Preset moves all the above options back to their original, factory-set levels. POWER FLSH CC BK MUTE TV /FM VO LUM E CHAN NEL 1 4 7 0 2 5 8 3 6 9 ENTER 4 1 TIMER MENU ALARM 2 3 4 Using SELECT on the remote control, choose Contrast on your screen. Use the Left/Right ADJ arrow to change the contrast level to your preference. Press ENTER, to remove the menu, or repeat from Step 2 to set other Video menu options.

2 ADJ SELECT CH PREVIEW ADJ 3 Choose the Preset option in Picture Preference to quickly reset the Video menu options to their original default values. PAGE 32 206-3686 Parental Control Menu If used, this feature can "block" undesirable programming from appearing on the TV. Parental Control offers the user a wide variety of options and settings that restrict or "block" the programming that can appear on the TV.



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Parental control allows the user the capability of defining which program rating they consider acceptable, to the younger or more sensitive viewer. It can be preset and turned either on or off by the user who specifies a secret 4-number code, the password. The number of hours blocked are specified. General audience and children viewer blocks should both be programmed into the TV's memory. Viewer ratings are specified for both TV and the motion picture industry; both rating systems should be used, for complete coverage. The ratings are based on the ages of children. Overview To insure complete coverage for all TV programs, (movies and regular TV shows) choose a rating for MPAA from the selections below AND choose ratings from the TV Parental Guidelines Rating System on the next page, using the Age Block option for General Audiences and for Children.

@@@Sources option.) Or leave unblocked, then choose allowable ratings. @@How many hours do you want Parental Control to be active? You can set the Hours option for up to 99 hours. Select a password; in the Set Password option. Use the number keys on the remote. @@Do you want Parental Control to be active all the time? @@@@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. @@@@For Sex Scenes for example, use the "From TV-PG" setting.

@@- Set a 4-number password. - Set the Lock On/Off option to either on or off. No Rating means the broadcast does not include rating information. @@@@Immediately press 9, 8, 7, 6 and then CC. This will reset the Block Hours to Zero and cancel the current 4-number password. 206-3686 Make Parental Control restrictions permanent, with no preset or fixed hours time limit In the Installer's Menu, Item 84: PERMANENT BLK, 0 or 1. 0 Blocking restrictions always active, no time limit. 1 Restrictions limited to specified hours, 12 - 99. Reset the Maximum Number of Parental Control Default Block Hours You can change the Block hours from the 12-hour default setting to up to 99 hours. In the Installer's Menu, item: 22-I MAX BLK HRS 12, use the ADJ Left/Right adjust arrow to set a different default number of hours.

To Turn the Parental Control Feature Off/On In the Installer's Menu, Items: 21-I V-CHIP, 0 or 1, 51-I DIS. VCHIP M., 0 or 1 Options Setups for V-Chip Menu and Block Functions 21-I V-CHIP 51-I DIS. VCHIP M. 0 0 No menu, no blocking. 0 1 No menu, no blocking. 1 0 Shows menu, Block functions. 1 1 No menu, Block functions. PAGE 35 Installer Menu Use the Installer Menu to set up or change operational settings See descriptions of the Installer items on the following pages..

. Accessing the Installer's Menu Installer's menu items can be accessed by using the optional LP702 installer's remote control. Just press and hold MENU (about 8 seconds) until the display changes, then press 9, 8, 7, 6, then ENTER. To exit the Installer's Menu, press ENTER again. Any changes you make will be stored in nonvolatile memory. The Installer's menu opens with item 0-I, INST. SEQ. Use the SELECT key to sequence through the available menu items. Or, access an item directly by entering the item number, then pressing MENU. For example, to access the Sleep Timer option which is item 15-I, press 1, 5, then MENU.

To change a setting use the Left/Right ADJ keys. 0IMCRM1040A 01.51 01 0-I INST. SEQ. 0 SN: XXXX-XXXXXXXX UPN: XXX-XXX-XXX-XXX XX/XX/XX TE = 10110000 Typical Installer Menu Using the Installer's Menu Items 0-I - 86-I are accessible only in the Installer's Menu.

Their numbers, descriptions, ranges, factory default settings, and a place for listing any changes made onsite are given below and on the following pages. The Factory Menu that is intended for qualified service technicians only, is not shown (XX-F items). Normally Factory menu items do not require adjustment.

Installer Menu Items 0-I through 25-I Menu Item 0-I. 1-I.  
2-I. 3-I. 4-I. 5-I. 6-I. 7-I. 8-I. 9-I. 10-I. 11-I.

12-I. 13-I. 14-I. 15-I. 16-I. 17-I. 18-I. 19-I. 20-I. 21-I.

22-I. 23-I. 24-I. 25-I. Function INSTALLER SEQ POWER MANAGE AC ON BAND/AFC STRT CHANNEL CHAN LOCK GHOST CH START VOLUME MIN VOLUME MAX VOLUME MUTE DISABLE NOT USED NOT USED SCAN MODE NOT USED SLEEP TIMER EN TIMER ALARM NOT USED NOT USED FEATURE LEVEL V-CHIP MAX BLK HRS CAPTION LOCK TEXT MODE FUNCTION PRE.

0/1 0/1 0 - 99 0/1 0/1 0-3 1 Zen 1 1 12 0 1 0 0/1 0/1 0/1 1 1 1 0/1 0 Value Range 0-3 0-7 0/1 0-7 0 - 255 0/1 0/1 0 - 63, 255 0 - 63 0 - 63 0/1 Default Value 0 0 0 0 255 0 0 255 0 63 0 XX-F Menu Items (Not shown here) are servicetype adjustments and only qualified technicians having specialized test equipment should access them. Brief Description of Function and Comments Leave default set 0. Sets number of hours of no activity before auto shutoff. Set to 1 to enable auto turn on at power up. Tuning band.

Channel at turn-on (255 last Ch). When set to 1, cannot tune from current channel. Set to 1 to enable Ghost Channel display. Volume level at TV turn-on (Set 255 to retain last volume level). Minimum volume setting. Maximum volume setting. Set to 1 to disable mute function. Puts On-Off in Ch Up/Down sequence. Set to 1 to enable Sleep Timer. Set to 1 to enable Timer.

Set to 1 to enable Alarm. Leave default set 1 (1 Zen 1) Set to 1 to enable V-Chip. Select number of Parental Control blocking hours. Set to 1 to retain caption setting at turn off. Set to 1 to add Text option to closed caption menu. Controls channel preview in Pay-Per-View function menu. PAGE 36 206-3686 Installer Menu Installer Menu Items 26-I through 63-I Menu Item 26-I. 27-I. 28-I. 29-I.

30-I. 31-I. 32-I. 33-I. 34-I.  
35-I. 36-I. 37-I. 38-I. 39-I.  
40-I. 41-I. 42-I. 43-I. 44-I. 45-I. 46-I. 47-I. 48-I. 49-I.

50-I. 51-I. 52-I. 53-I. 54-I. 55-I. 56-I. 57-I. 58-I. 59-I.  
60-I. 61-I. 62-I. 63-I. Function NOT USED NOT USED CH.

OVER RIDE OLD OCV ACK MASK POLL RATE TIMING PULSE Y/C LOOPOUT CAMPORT EN. NTSC SCANCARD FRNT Y/C EN. REAR Y/C EN. YPrPb EN. REAR VIDEO EN AUTO CAMPORT NOT USED AUTO FRNT Y/C AUTO REAR Y/C AUTO YPrPb AUTO REAR VIDEO STRT AUX SRCE AUX STATUS DIS.

SETUP M. DIS. AUDIO M. DIS. VIDEO M. DIS. VCHIP M. DIS. SOURCE M. DIS.

CH-TIME M. EN. SET. COL. FOR. SETUP M. BCK. SETUP M. EN. AUDIO COL.  
FOR. AUDIO M. BCK AUDIO M. EN. VIDEO COL.  
FOR. VIDEO M. BCK VIDEO M. EN. PTL.

COL. Value Range Default Value Brief Description of Function and Comments 0/1 0/1 0/1 20 - 169 186 - 227 0/1 0/1 0/1 0/1 0/1 0/1 0/1 0/1 0 0 94 207 0 1 0 1 1 1 1 1 When set to 0, limits direct access to favorite channels. OCV should set to 1. M.P.I. communication parameter. M.P.I.

communication parameter. M.P.I. communication parameter. Set to 1 to enable S-Video output. Set to 1 to enable the front AUX (Campport) input. Leave set to

0, function is not used. Set to 1 to enable the front S-Video input. Set to 1 to enable the rear S-Video input.  
Set to 1 to enable the component input. Set to 1 to enable rear AUX video input. Set to 1 to automatically switch to Campport. 0/1 0/1 0/1 0/1 0 - 2, 255 0/1 0/1  
0/1 0/1 0/1 0/1 0/1 0/1 0-7 0-7 0/1 0-7 0-7 0/1 0-7 0-7 0/1 1 0 0 0 255 0 0 0 0 0 0 0 0 6 4 0 1 7 0 4 7 0 Set to 1 to automatically switch to front S-Video input.



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Set to 1 to automatically switch to rear S-Video input.

Set to 1 to automatically switch to Component input. Set to 1 to automatically switch to rear AUX video input. Set the starting AUX source. Set to 1 for M.P.I. AUX source reported as Channel 0. Set to 1 to disable Setup menu. Set to 1 to disable Audio menu. Set to 1 to disable Video menu. Set to 1 to disable V-Chip (Parental Control) menu. Set to 1 to disable Source menu. Set to 1 to disable Channel-Time display. Set to 1 to enable custom color for Setup menu. Custom foreground color for the Setup menu.

Custom background color for the Setup menu. Set to 1 to enable custom color for the Audio menu. Custom foreground color for the Audio menu. Custom background color for the Audio menu. Set to 1 to enable custom color for the Video menu. Custom foreground color for the Video menu. Custom background color for the Video menu. Set to 1 to enable custom color for the V-Chip (Parental Control) menu. 206-3888 PAGE 37 Installer Menu Installer Menu Items

64-I through 86-I Menu Item 64-I. 65-I.

66-I. 67-I. 68-I. 69-I. 70-I.

71-I. 72-I. 73-I. 74-I. Function FOR.

PTL. M. BCK. PTL. M. EN. SRC. COL. FOR. SRC.

M. BCK. SRC. M. EN. CH-T COL. FOR. CH-T COL BCK. CH-T COL NOT USED CH NOT AVBLE CH-TIME SIZE Value Range 0-7 0-7 0/1 0-7 0-7 0/1 0-7 0-7 Default Value 6 4 0 3 4 1 1 1 Brief Description of Function and Comments Custom foreground color for the V-Chip (Parental Control) menu. Custom background color for the V-Chip (Parental Control) menu.

Set to 1 to enable custom color for the Source menu. Custom foreground color for the Source menu. Custom background color for the Source menu. Set to 1 to enable custom color for the Channel-Time display. Custom foreground color for the Channel-Time display.

Custom background color for the Channel-Time display. 0/1 0/1 0 0 When set to 1 and channel override is 0, "NOT AVAILABLE" message is displayed when direct accessing a channel not in the favorite channel list. When set to 1 and transparent background is selected for Channel-Time display, (foreground color = background color and custom color enabled) a large channel number is displayed instead of the normal Channel-Time display. When set to 1 and loss of M.P.

I. communication occurs, TV tunes to Start Channel. When set to 1, XDS display program information will not appear. 75-I. 76-I. 77-I. 78-I. 79-I. 80-I. 81-I.

82-I. 83-I. 84-I. 85-I. 86-I. REVERT CH DEFEAT XDS NOT USED UPN MSB UPN MSB-1 UPN MSB-2 UPN LSB CHKSM ERROR HANDSHK TIME PERMANENT BLK A. MUTE TIME V. MUTE TIME 0/1 0/1 0 0 0 - 255 0 - 255 0 - 255 0 - 255 0/1 0-5 0/1 0 - 254 0 - 254 255 255 255 255 0 0 0 35 40 User programmable number, most significant byte. (Line - Day) User programmable number, most significant byte - 1. (Week) User programmable number, most significant byte - 2.

(SN-HIGH) User programmable number, least significant byte. (SN-LOW) Enforces rigid M.P.I.\* checksum Relaxes M.

P.I. timing to be compatible with PC based Windows controlled systems. Remove block hours setting for Parental Control and make blocks permanent.

Controls muting audio delay time when switching between AUX sources.

Controls muting video delay time when switching between AUX sources. Detailed Descriptions of Installer Menu Items 0-I. INSTALLER SEQUENCE Gives access to Installer Menu depending on the code selected. 0 = 9876 2 = 1478 1 = 4321 3 = 3698 setting the hours that the TV will remain on, unless there has been activity from either the control panel or remote control. 2-I. AC ON (AC Power Switchable) Allows the TV to turn ON just by applying AC power.

Pressing the ON button is not necessary. This is desirable when the TV is plugged into a cable box or a power outlet controlled by a wall switch. Use ADJ to select 0 or 1, where 0 is the default is OFF, and 1 is ON. NOTE: When set to 1 (ON), the TV does not respond to ON/OFF commands from either the remote or the control panel, and the SLEEP TIMER is also nonfunctional.

1-I. POWER MANAGE (Power Management) Determines hours of no activity before automatic shutdown. The POWER MANAGE function is for saving energy. When set to 0, Power Manage is OFF. Settings range from 0 - 7, with 1 - 7 repre- \*M.P.I. Multiple Protocol Input: Zenith protocol for remote control of TV through RJ11 (M.P.I.

) jack on TV connections panel. PAGE 38 206-3858 Installer Menu Installer Menu Items 3-I through 13-I: Detailed Descriptions 3-I. BAND/AFC (Band/Automatic Frequency Control) There are 8 possible settings for this option: 0 5 6 7 = = = Broadcast Fixed CATV Fixed HRC Fixed ICC Fixed 4 1 2 3 = = = Broadcast AFC CATV AFC HRC AFC ICC AFC 7-I. START VOLUME This function allows the Installer to determine the initial volume level setting when the TV is turned ON. This feature is useful for an in-house information channel, since the TV would always select that volume level when it is turned on.

The range of values are 0 - 63, 255. If 255 is selected, the current volume level will be retained in memory when the TV is turned off; at TV turn on, volume level is automatically set to the previous or last level. 8-I. MIN VOLUME (Minimum Volume) This function determines the minimum volume level allowable with the VOLUME (VOL) Up/Down control. In this way, for example, someone cannot set the sound too low to hear.

The range is from 0 to 63--change values with ADJ (adjust). The factory default is 0, which provides full range of volume control. It may be best to set the same value on every TV. NOTE: The minimum volume level cannot have a value setting higher than in the MAX VOLUME level (described below). 9-I. MAX VOLUME (Maximum Volume) This function determines the maximum volume level allowable with the VOLUME Up/Down control. In this way, for example, someone cannot set the sound level high enough to disturb others. The range is 0 to 63, with 63 as the default which gives the user the full range of volume control. Change values with ADJ Left/Right keys. It may be best to set the same value on every TV.

NOTE: The maximum volume level cannot have a value setting lower than the MIN VOLUME level (described above). 10-I. MUTE DISABLE Enables or disables sound mute function. If set to 1, sound cannot be muted. If set to 0, sound can be muted. 11-I. NOT USED Channels are accessed faster when fixed modes are used. The AFC (search modes) should only be used when some channels are not on nominal frequencies. NOTE: BAND is automatically set by AUTO PROGRAM. If some channels were not found by AUTO PROGRAM, select the appropriate AFC setting here and add the channels using the ADD/DEL option in the Setup Menu.

4-I. STRT CHANNEL (Start Channel) When active, this function allows you to determine the initial channel number when the TV is turned ON. This feature is useful for an in-house information channel, since the TV would always select that channel when it is turned on. Setting this to 255 causes the last channel viewed when TV was turned off to be the tuned to channel when the TV is turned on again. The range of values is 0 - 255.

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