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You can read the recommendations in the user guide, the technical guide or the installation guide for MITSUBISHI WS-55313. You'll find the answers to all your questions on the MITSUBISHI WS-55313 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual MITSUBISHI WS-55313
User guide MITSUBISHI WS-55313
Operating instructions MITSUBISHI WS-55313
Instructions for use MITSUBISHI WS-55313
Instruction manual MITSUBISHI WS-55313

MITSUBISHI
THE BIG SCREEN COMPANY®
Digital

Owner's Guide

Projection Television Models
WT-42313, WS-48313, WS-55313 and WS-65313

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Manual abstract:

@@@@@@@Please see page 6, 12 or 30 for a detailed explanation. Note: 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 in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, 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 the 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: To assure continued FCC compliance, the user must use a shielded video interface cable with bonded ferrite cores at both ends, when using the MonitorLink/DVI input.

Changes or modifications not expressly approved by Mitsubishi could void the user's authority to operate this equipment. WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT. NOTE TO CATV SYSTEM INSTALLER: THIS REMINDER IS PROVIDED TO CALL THE CATV SYSTEM INSTALLER'S ATTENTION TO ARTICLE 820-40 OF THE NEC THAT PROVIDES GUIDELINES FOR THE 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 CABLE ENTRY AS PRACTICAL. Contents Important Notes .

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..... 75 Television Overview Chapter 2 Connections Chapter 3 Remote Control Functions Chapter 4 Menu Screen Operations Chapter 5 PIP/POP Operations 3 IMPORTANT SAFEGUARDS 1.

Read, Retain and Follow All Instructions 2. Heed Warnings 3. Cleaning Please read the following safeguards for your TV and retain for future reference. Always follow all warnings and instructions marked on the television. Read all safety and operating instructions before operating the TV. Retain the safety and operating instructions for future reference. Follow all operating and use instructions. Adhere to all warnings on the appliance and in the operating instructions. Unplug the TV from the wall outlet before cleaning. Do not use liquid, abrasive, or aerosol cleaners.

Cleaners can permanently damage the cabinet and screen. Use a lightly dampened cloth for cleaning. Never add any attachments and/or equipment without approval of the manufacturer as such additions may result in the risk of fire, electric shock or other personal injury. 4. Attachments and Equipment 5. Water and Moisture 6. Accessories Do not use the TV where contact with or immersion in water is possible. Do not use near bath tubs, wash bowls, kitchen sinks, laundry tubs, swimming pools, etc. Do not place the TV on an unstable cart, stand, tripod, or table. The TV may fall, causing serious injury to a child or adult and serious damage to the TV.

Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the TV. Any mounting of the TV should follow the manufacturer's instructions, and should use mounting accessories recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn. 7. Ventilation Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the TV and to protect it from overheating. Do not block these openings or allow them to be obstructed by placing the TV on a bed, sofa, rug, or other similar surface. Nor should it be placed over a radiator or heat register. If the TV is to be placed in a rack or bookcase, ensure that there is adequate ventilation and that the manufacturer's instructions have been adhered to. 8.

Power Source This TV 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 supplied to your home, consult your appliance dealer or local power company. This TV is equipped with a polarized alternating current line plug having one blade wider than the other. This plug will fit into the power outlet only one way. 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. 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 TV. 9. Grounding or Polarization 10.

Power-Cord Protection 11. Lightning For added protection for this TV 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 TV due to lightning and power-line surges. 4 IMPORTANT SAFEGUARDS, continued 12. Power Lines An outside antenna system should not being and changing images that fill the screen whenever possible.

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This projection TV uses picture tubes to project the image to the screen. All picture tubes age with use. As they age, their light output is gradually reduced. Normal TV pictures fill the screen with constantly changing images. Under these conditions, picture tubes age at an even rate across the entire screen. This maintains a TV picture that is evenly bright over the whole screen. Stationary images or images that only partially fill the screen (leaving black or colored bars to fill the screen), when used over extended periods of time or when viewed repeatedly, can cause uneven aging of the phosphors and leave subtle ghosts from the stationary images in the picture. Still or stationary images may be received from broadcasters, cable channels, satellite channels, DVD discs, video tapes, laser discs, on-line services, web/Internet searching devices, video games, and digital TV tuner/converter boxes. Examples of these types of images can be, but are not limited to the following: Letterbox top/bottom black bars: IMPORTANT NOTES shown at the top and bottom of the TV screen when you watch a widescreen (16:9) movie on a standard (4:3) TV. Side bar images: solid bars shown on each side of an image when watching a standard (4:3) program on a widescreen (16:9) TV. News and stock-market report bars: ticker running at the bottom of the TV screen. Shopping channel logos & pricing displays: bright graphics that are shown constantly or repeatedly in the same location. Video game patterns and scoreboards Bright station logos: moving or low-contrast graphics are less likely to cause uneven aging of the picture tubes. Online (Internet) websites: or any other stationary or repetitive computer style images, including digital photos. Closed Captioning Mitsubishi recommends using a gray background rather than a black or a bright color if you frequently use closed captioning.

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..... 12 Thank You for Your Purchase Welcome to the wonderful and exciting world of digital television! We are honored that you chose Mitsubishi as your premier home entertainment partner. The development team at Mitsubishi Digital Electronics America (MDEA) understands that our customers demand and expect the very best.

MDEA was founded on the core beliefs and philosophies that drive us to deliver products that implement the latest in advanced television technology. While some televisions are destined for obsolescence in the near future, MDEA's televisions are all HDupgradeable. This cornerstone of your home entertainment system will continue to provide unparalleled enjoyment for years to come! Whether this is your first Mitsubishi consumer electronics product or another addition to your growing Mitsubishi system, we hope that this television will bring you many hours of enjoyment. OUR PROMISE We will engineer and manufacture the upgrades necessary so the HD-upgradeable television you purchased today can be made compatible with near-future advances in digital television and digital interconnectivity. Specifically, we promise that you will be able to have your television upgraded, at a reasonable cost, to include an off-air HDTV tuner, a cable TV tuner (for unscrambled programming), an IEEE (FireWire®) connection, HAVi system control, and C copy protection.

8 Unpacking Your New TV Please take a moment to review the following list of items to ensure that you have received everything including: VCR Special Features Your new High Definition (HD) upgradeable bigscreen television has many special features that make it the perfect addition to your home entertainment system. A few of these special features are: CABLE/DBS/DTV TV DVD AUDIO 1 4 2 5 8 0 3 6 9 QV POWER PIP/POP Viewing Option See pages 22, 29 and 62 for more information. 7 SQV SLEEP VIDEO AUDIO MUTE INPUT CHANNEL VOLUME Using Picture-in-Picture and Picture-outsidePicture gives you exciting options for viewing favorite programs. ENTER EXCH CANCEL ADJUST HOME MENU V-CHIP FORMAT PIP INPUT PIP/POP PIP CH INFO GUIDE REC STOP PAUSE REW/REV PLAY FF/FWD With the use of an optional HDTV receiver (Mitsubishi HD- or similar model) your Mitsubishi bigscreen can display high definition pictures. See page 21 for connection information.

HD Upgradeable Remote Control AAA AAA Your Mitsubishi remote control can be programmed to control many other audio/video components. See pages 27-28 for more information. Multibrand Remote Control V-Chip Technology 2 AAA Batteries Mitsubishi understands you may want to shield certain viewers from specific program content. Your Mitsubishi bigscreen will allow you to restrict programming by general contents, specific contents, or even by time. See

pages 45-49 for more information. 16:9 Widescreen TV See pages - for more information. Enjoy a full theatrical experience in the comfort of your home. View pictures as film directors intended them. Both the DTV and DVD support the widescreen format well-suited for your new TV. Product Registration Card Quick Reference Card (not pictured) 9 Front Control Panel Many remote control buttons are duplicated on the front control panel.

Duplicate buttons are shaded in the panels shown below. Please see Remote Control Functions, page , for an explanation of their usage. S-VIDEO VIDEO L-AUDIO-R POWER VOL CH FORMAT MENU A/V RESET INPUT TIMER ADJUST ADJUST ENTER MENU CANCEL INPUT-3 The ADJUST, ENTER, MENU, and CANCEL buttons may be used to access or navigate through the screen menus Timer TIMER During normal operation, the timer light glows green when the TV is on. It does not glow when the TV is off. When the timer is used to turn the TV on at a specific time, the green timer light blinks while the TV is off. See Timer Menu, page for timer setup instructions. A/V RESET A/V Reset CANCEL Press this button to reset all A/V memory inputs to the factory default settings. See Audio/Video Settings Menu, page for instructions. FORMAT ENTER Format Press this button to change the size and shape of the main TV picture. S-VIDEO VIDEO L-AUDIO-R Input-3 This input can be used for convenient connection of a camcorder or other video device to the TV. You may connect to the S-VIDEO or VIDEO terminal but not to both. 10 Back Panel Input/Output for WS-, WS- & WS- Side Panel Input/Output for WT- 6 WS-48313, WS-55313, WS-65313 Back Panel MONITORLINK /DVI TM WT-42313 Side Panel S-VIDEO VIDEO AUDIO 2 MONITOR OUTPUT INPUT 1 2 MONITOR OUT 3 INPUT 2 1 Y S-VIDEO 4 COMPONENT 480 i / 480P/ 1080i 5 DTV(YPbPr/ GBRH V) 480 i / 480P /1080 i MONITORLINK CONTROL RS-232C TM 1 2 Y G 7 3 INPUT 2 Y/G Pb B Pb/B Pr/R LEFT(MONO) RIGHT H Pb Pr V I D EO AUDIOLEFT / (MONO) AUDIOR IGH T Pr R V 4 AUDIOLEFT/ (MONO) AUDIORIGHT COMPONENT (480I/480P/1080I) DTV (480I/480P/1080I) AUDIO L E FT / (MONO) AUDIO RIGHT 5 CAUTION: SERVICE WARNING H V 1 AN T - A LO O P OUT TO MEASURE SECOND ANODE VOLTAGE USE A HIGH VOLTAGE METER CONNECTED FROM ANODE LEAD TO CHASSIS ONLY.

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DISCHARGE HIGH VOLTAGE TO CHASSIS ONLY, NOT TO EXTERNAL GROUND. 6 A N T- B WARNING: HANDLE WITH CARE HIGH VACUUM PICTURE TUBE IS DANGEROUS TO HANDLE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
REPLACE WITH A TUBE OF THE SAME TYPE NUMBER FOR CONTINUED SAFETY. MonitorLinkTM /DVI X-RAY PRECAUTION: THIS PRODUCT INCLUDES CRITICAL MECHANICAL AND ELECTRICAL PARTS WHICH ARE ESSENTIAL FOR X-RADIATION SAFETY. FOR CONTINUED SAFETY REPLACE CRITICAL COMPONENTS INDICATED IN THE SERVICE MANUAL ONLY WITH EXACT REPLACEMENT PARTS GIVEN IN THE PARTS LIST. REFER TO SERVICE MANUAL FOR OPERATING HIGH VOLTAGE AT MINIMUM BRIGHTNESS, MEASUREMENT PROCEDURES AND PROPER SERVICE ADJUSTMENTS. MonitorLinkTM CONTROL/RS-232C 7 1 AN T - A LOO P OU T AN T- B 1.
ANT-A, LOOP OUT and ANT-B (Antenna) 5. DTV Input ANT-A and ANT-B receive signals from VHF/UHF antennas or a cable system. LOOP OUT sends the ANT-A signal out to another device, such as a cable box or VCR. Note: LOOP OUT is disabled when Energy Mode is set to Low when the TV power is set to Off. This input is used to connect a DTV receiver or cable box and can be configured for HDTV component (YPbPr), or RGB plus H&V. Please see Appendix B, page 65, for signal compatibility. 2. Monitor Out 6. MonitorLinkTM/DVI This is a Mitsubishi-exclusive proprietary digital interface for the display of high quality digital video signals from Mitsubishi products such as the HD-5000 HDTV Receiver/Controller. All video signals, both analog and digital are sent digitally to your Mitsubushi TV.

Can also be used as a DVI input for other compatible sources. Note: The DVI-HDTV input terminal is compliant with the EIA-861 standard and is not intended for use with personal computers. The Monitor Output sends the TV audio and video signals (excluding component video, DTV video and MonitorLink) to an A/V receiver or other equipment. 3. Inputs 1-2 These inputs can be used for the connection of a VCR, Super VHS (S-VHS) VCR, laser disc player, or other A/V device to the TV. With each input, you may connect to the S-VIDEO or VIDEO terminal but not to both. 7. MonitorLinkTM Control/RS-232C 4. Component Inputs 1-2 (Component only for WT-42313) These inputs can be used for the connection of A/V equipment with component video outputs, such as a DVD player or compatible Video Game System. Please see Appendix B, page 65, for signal compatibility.
A digital control interface that works in parallel with MonitorLink. While MonitorLink provides the digital video signal, MonitorLink Control provides enhanced functioning such as automatic power ON/OFF and input selection. Can also be used with other compatible RS-232C external control devices. 11 Warning: Do not leave stationary PIP/POP, or letterbox images on the screen for extended periods of time. Mix the types of pictures shown.
Uneven picture tube aging is NOT covered by your warranty. The normal use of a TV should include a mixture of TV picture types. The most frequently used picture types should fill the screen with constantly moving images rather than stationary images or patterns. Displaying the same stationary patterns over extended periods of time or displaying the same stationary pattern frequently can leave subtle but permanent ghost images. To avoid this, mix your viewing pattern and reduce the initial contrast level.
Do not show the same stationary image for more than 15% of your total TV viewing in any given week. Display constantly moving and changing images that fill the screen whenever possible. This projection TV uses picture tubes to project the image to the screen. All picture tubes age with use. As they age, their light output is gradually reduced. Normal TV pictures fill the screen with constantly changing images. Under these conditions, picture tubes age at an even rate across the entire screen. This maintains a TV picture that is evenly bright over the whole screen. Stationary images or images that only partially fill the screen (leaving black or colored bars to fill the screen), when used over extended periods of time or when viewed repeatedly, can cause uneven aging of the phosphors and leave subtle ghosts from the stationary images in the picture. Still or stationary images may be received from broadcasters, cable channels, satellite channels, DVD discs, video tapes, laser discs, on-line services, web/Internet searching devices, video games, and digital TV tuner/converter boxes.

Examples of these types of images can be, but are not limited to the following: Letterbox top/bottom black bars: IMPORTANT NOTES shown at the top and bottom of the TV screen when you watch a widescreen (16:9) movie on a standard (4:3) TV. Side bar images: solid bars shown on each side of an image when watching a standard (4:3) program on a widescreen (16:9) TV. Stock-market report bars: ticker running at the bottom of the TV screen. Shopping channel logos & pricing displays: bright graphics that are shown constantly or repeatedly in the same location. Video game patterns and scoreboards Bright station logos: moving or low-contrast graphics are less likely to cause uneven aging of the picture tubes. Online (Internet) websites: or any other stationary or repetitive computer style images. Closed Captioning Mitsubishi recommends using a gray background rather than a black or a bright color if you frequently use closed captioning. 12 Chapter . . .

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... 22 Additional connection cables are not provided with the TV. They should be available at most electronic stores. Connecting an Antenna or Wall Outlet Cable Note: The TV back panel and connections shown here are for reference only and may vary by model. (Figure 1) Separate UHF and VHF Antennas 1. Connect the UHF and VHF antenna leads to the UHF/VHF combiner. Push the combiner onto ANT-A on the TV back panel. 2. Figure 1. Connecting separate UHF and VHF antennas. Note: See page 5 for Outdoor Antenna Grounding UHF/VHF combiners are not provided with the TV. They are available at most electronic stores. Note: This TV will only be able to provide an analog signal through ANT-A on the TV back panel. Additional connection cables are not provided with the TV. They should be available at most electronic stores. Twin Lead Antenna, Coaxial Lead Antenna, or Wall Outlet Cable (Figure 2) For antenna with twin flat leads: 1. Connect the 300ohm twin leads to the transformer. 2. Push the 75ohm side of the transformer onto ANT-A on the TV back panel.

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Figure 2. Connecting twin lead antenna, coaxial lead antenna, or wall outlet cable. Note: See page 5 for Outdoor Antenna Grounding 300ohm to 75ohm matching transformers are not provided with the TV. They are available at most electronic stores. For cable or antenna with coaxial lead: 3. Connect the incoming cable to ANT-A on the TV back panel. Note: This TV will only be able to provide an analog signal through ANT-A on the TV back panel. 14 Connecting an Antenna to a Cable Box or VCR Note: The TV back panel and connections shown here are for reference only and may vary by model. Cable Box (Figure 3) 1.

Connect the incoming cable to ANT-A on the TV back panel. Connect two coaxial cables as follows: 2. One from LOOP-OUT on the TV back panel to IN on the cable box back panel. 3. One from OUT on the cable box back panel to ANT-B on the TV back panel. Figure 3. Connecting the cable box. Note: See page 5 for Outdoor Antenna Grounding NOTE: If your cable box has separate audio/video outputs, please see Composite Video with Audio or S-Video with Audio, page 16 (Figure 6). Antenna or Wall Outlet Cable (Figure 4) 1. Connect the incoming cable to ANT-A on the TV back panel.
One from LOOP-OUT on the TV back panel to ANTENNA IN on the VCR back panel. One from VCR back panel ANTENNA OUT to ANT-B on the TV back panel. Connect two coaxial cables as follows: 2. 3. Figure 4.
Connecting the VCR with antennas or wall outlet table. NOTE: If your cable box has separate audio/video outputs, please see Composite Video with Audio or S-Video with Audio, page 16 (Figure 6). Note: If you have a digital cable box, refer to your Digital Cable Box owner's guide for instructions on optimal connections to this TV. Note: For models WS-, WS- and WS-, when the Energy Mode is set to Low, the VCR may not record programs, when the TV is off. 15 Note: The TV back panel and connections shown here are for reference only and may vary by model.
TV back panel (section detail) Incoming Cable Connecting an Antenna to a Cable Box and VCR, Connecting Audio/Video to the Cable Box or VCR AN T - A LOO P OU T AN T- B 1 (Figure 5) Cable Box Connect the incoming cable to ANT-A on the TV back panel. One from LOOP-OUT on the TV back panel to IN on the back of the cable box. One from OUT on the back of the cable box to ANTENNA IN on the VCR back panel. One from ANTENNA OUT on the VCR back panel to ANT-B on the TV back panel. 2 4 1. Cable Box Rear Terminals Connect three coaxial cables as follows: 2 3 OUT 2. 3. AUDIO OUT AUDIO IN VIDEO OUT (Y/C) 1 MONITOR IN VCR back panel 3 IN Antenna 1 L 2 L R R 4 OUT 4. Figure 5. Connecting the VCR with cable box.

NOTE: For best performance, please see Composite Video with Audio or S-Video with Audio, below. Composite Video with Audio or S-Video with Audio (Recommended) TV back panel (section detail) MONITOR OUT 1 INPUT 2 (Figure 6) 1. Attach only one cable type S-VIDEO 1 V I D EO Connect a video or an S-Video cable from VIDEO OUT on the VCR back panel to VIDEO or S-VIDEO, INPUT-1 or INPUT-2 on the TV back panel. Connect a set of audio cables from AUDIO OUT on the VCR back panel to AUDIO INPUT-1 or INPUT-2 on the TV back panel. White AUDIOLEFT / (MONO) AUDIOR IGH T 2 Red 2. 1 Attach only one cable type VCR back panel · The red cable connects to the R (right) channel · The white cable connects to the L (left) channel If your VCR is mono (non-stereo), connect only the white (left) cable. 1 AUDIO OUT AUDIO IN VIDEO OUT (Y/C) IN White L 1 L 2 1 MONITOR Antenna 2 Red If your VCR has a video channel or RF ON/OFF switch, set to OFF. R R OUT Figure 6. Connecting the VCR Audio/Video. You may connect to the S-VIDEO or VIDEO terminal but not to both.
16 Connecting an Audio Receiver Note: The TV back panel and connections shown here are for reference only and may vary by model. (recommended for shelf units or A/V receivers without digital audio inputs) (Figure 7) Stereo Audio System 1. TV back panel (section detail) Connect the audio cables from AUDIO MONITOR OUTPUT on the TV back panel to TV IN or AUX IN terminals on the back of the audio system. 1 White MONITOR OUT 1 INPUT 2 S-VIDEO V I D EO AUDIOLE FT / (MONO) AUDIO R IGH T · The red cable connects to the R (right) channel · The white cable connects to the L (left) channel 2. 3.
Turn off the TV's speakers through the AUDIO/ VIDEO SETTINGS Menu, page 55. Red Audio system back panel section Set the audio system's input to the TV or AUX position to hear the TV's audio through your stereo system. 1 White CD IN L AUX IN IN TAPE 1 OUT IN TAPE 2 OUT SUBWOOFER OUT (MONO) Red R Figure 7. Connecting the Stereo Audio System. Additional connection cables are not provided with the TV.
They should be available at most electronic stores. These types of audio connection do NOT support multi-channel digital audio. Please refer to your cable or satellite box Owner's Guide to verify. A/V Receiver (Figure 8) 2 AV Receiver (back panel section) 3 Red White Yellow 1. Connect either a video cable or an S-Video cable (but not both) from VIDEO MONITOR OUT on the back of the A/V receiver to VIDEO INPUT-1 or INPUT- 2 on the TV back panel. Connect a video cable from VIDEO MONITOR OUTPUT on the TV back panel to VIDEO TV IN on the back of the A/V receiver. Connect a set of audio cables from AUDIO MONITOR OUTPUT on the TV back panel to AUDIO TV IN on the back of the A/V receiver. 2 Yellow V I D EO 1 2. TV back panel (section detail) Attach only one cable type MONITOR OUT 1 INPUT 2 S-Video 3. S-VIDEO Yellow AUDIOLE FT / (MONO) 1 White Red 3 AUDIO R IGH T · The red cable connects to the R (right) channel · The white cable connects to the L (left) channel Note: Please see your A/V receiver Owner's Guide for more detailed connections.

Figure 8. Connecting the A/V Receiver. 17 Connecting a DVD Player or Other S-Video Device Note: The TV back panel and connections shown here are for reference only and may vary by model. DVD Player with Component Video (Figure 9) 1. Figure 9. Connecting a DVD Player with Component Video. Connect the Component Video cables from (YCb Cr or Y Pb Pr) VIDEO OUT on the back of the DVD player to COMPONENT (1 or 2) on the TV back panel. The correct connections are: A. Y to Y B. Cb or Pb to Pb C.
Cr or Pr to Pr Connect a set of audio cables from AUDIO OUT on the back of the DVD player to COMPONENT AUDIO Input (1 or 2) on the TV back panel.

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2. See Appendix B, page 65, for component video signal compatibility information. For digital audio connections, see your DVD and A/V receiver Owner's Guides. · The red cable connects to the R (right)channel · The white cable connects to the L (left) channel NOTE: Some video game systems support component connections.

Please refer to your video game console Owner's Guide. NOTE: If your DVD player supports progressive scan playback, be sure to set your player accordingly. Please refer to your DVD player's Owner's Guide. Other S-Video Device (Figure 10) 1. Connect an S-Video cable from VIDEO OUT on the device back panel to VIDEO INPUT-1 or INPUT-2 on the TV back panel.

Connect a set of audio cables from AUDIO OUT on the device back panel to AUDIO INPUT-1 or INPUT-2 on the TV back panel. 2. Figure 10. Connecting an S-Video Device. · The red cable connects to the R (right) channel · The white cable connects to the L (left) channel If your S-Video Device is mono (non-stereo), connect only the white (left) cable. 18 Connecting a DTV Receiver Note: The TV back panel and connections shown here are for reference only and may vary by model. DTV Connectors and Adaptors (Figure 11) The TV back panel has five RCA-type connectors for the DTV connection. The back panel of your DTV receiver may use RCA-type connectors or BNC-type connectors. If your DTV receiver comes with BNC type connections, you will need to purchase BNC to RCA adaptors to connect the TV to the DTV receiver. These adaptors should be available at most electronic supply stores.

or BNC to RCA Adaptor BNC Connector Adaptor Fitted to Connection RCA Connector Figure 11. DTV connectors and adaptors. See Appendix B, page 65 for component video signal compatibility information. DTV Receiver with Component Video Connections (Recommended) (Figure 12) For digital audio connections, see your DTV receiver and A/V receiver Owner's Guides. 1. Connect the outside antenna cable, or satellite to ANT or SATELLITE IN on the DTV receiver (see your DTV receiver owner's guide for instructions and cable compatibility). If your DTV receiver has a built-in terrestrial tuner, connect the incoming terrestrial antenna to ANT on the DTV receiver. If your DTV receiver does not have a built-in terrestrial tuner, this TV will only be able to provide an analog signal through Ant-A on the TV back panel. Connect the RCA-type cables from the DTV receiver outputs to DTV INPUT Y/Pb/Pr on the TV back panel. You may need to set the DTV Input Assignment to Y/Pb/Pr (see page 35).

Connect the L (left) and R (right) audio cables from the DTV receiver to DTV AUDIO on the TV back panel. To utilize the benefits of a digital A/V receiver, connect your DTV receiver's digital audio out to a digital input on your digital A/V receiver. Component (1 and 2) may also be used for 1080i components. Incoming Antenna, or Cable. TV Back Panel (section detail) COMPON ENT 480 i / 4 80P/ 1080i DTV(YPbPr/ GBRH V) 480 i / 480P /1080 i 2. MONITOR OUT 1 INPUT 2 1 Y G 2 Y S-VIDEO B Pb 3 3 Y G H Pb Pb B H 2 Pr V I D EO AUDIOLEF T / (MONO) AUDIO R IGH T R V Pr 3 Pr R V AUDIO L E FT / (MONO) AUDIO R IG HT 4 4 White Red AN T - A LOO P OU T AN T- B 2 3. DTV Receiver (with component video connections) CAUTION AUDIO AUDIO L 3 3 RF White L VCR CONTROL RISK OF ELECTRICAL SHOCK DO NOT OPEN Y 4 OUT TO TV CH 3 CH 4 Pr R R 4 Red DIGITAL AUDIO OUT PHONE JACK 3 REMOTE Pb V IDEO V IDEO S-VIDEO IN FROM ANT SATELLITE IN 4. or 1 to antenna, cable or satellite 1 5. Figure 12. Connecting the DTV receiver with component Video Connections.

19 Connecting a DTV Receiver, continued TV Back Panel (section detail) COMPON ENT 4 80 i / 480P/ 1080i Note: The TV back panel and connections shown here are for reference only and may vary by model. DTV(YPbPr/ GBRH V) 480 i / 480P /1080 i Incoming Antenna, or Cable. MONITOR OUT 1 INPUT 2 1 Y G 2 Y 3 Y G S-VIDEO B Pb H Pb 3 3 Pb B H 4 2 Pr V I D EO AUDIOLEF T / (MONO) AUDIO R IGH T R V Pr Pr R V 4 White AUDIO L E FT / (MONO) AUDIO R IGHT 5 DTV Receiver with RGB Video Connections (Figure 13) 5 Red AN T - A LOO P OU T AN T- B 1. 2 DTV Receiver (witH RGB connections) CAUTION AUDIO RISK OF ELECTRICAL SHOCK DO NOT OPEN Connect the outside antenna, cable, or satellite to ANT or SATELLITE IN on the DTV receiver (see your DTV receiver owner's guide for instructions and cable compatibility). If your DTV receiver has a built-in terrestrial tuner, connect the incoming terrestrial antenna to ANT on the DTV receiver. If your DTV receiver does not have a built-in terrestrial tuner, this TV will only be able to provide an analog signal through Ant-A on the TV back panel. Connect the RGB cables from the DTV receiver to the TV back panel as listed below (if your DTV receiver uses BNC-type cables, use the adaptors shown in Figure 11, page 19): DTV Receiver TV Back Panel G (green) B (blue) R (red) = = = Y/G Pb/B Pr/R 3 G L VCR CONTROL 5 White OUT TO TV 3 RF PHONE JACK R 3 REMOTE B H 4 R 5 Red DIGITAL AUDIO OUT CH 3 CH 4 V 4 2. SATELLITE IN S-VIDEO IN FROM ANT Figure 13. Connecting the DTV receiver with RGBto antenna, cable or satellite 1 video connections. or 1 3.

See Appendix B, page 65 for component video signal compatibility information. For digital audio connections, see your DTV receiver and A/V receiver Owner's Guides. 4. If the DTV receiver has outputs for H and V sync, connect as listed below (DO NOT connect if DTV receiver uses "Sync on Green"): H (horizontal sync) V (vertical sync) = = H V 5. Connect the L (left) and R (right) audio cables from the DTV receiver to DTV AUDIO on the TV back panel. 6. To utilize the benefits of a digital A/V receiver, connect your DTV receiver's digital audio out to a digital input on your digital A/V receiver. You may need to setup the DTV (See Input Assignment, page 35) to RGB. 20 Connecting MonitorLinkTM MonitorLink (Figure 14) Note: The TV back panel and connections shown here are for reference only and may vary by model. MONITORLINK /DVI TM WS-48313, WS-55313, WS-65313 back panel DTV(YPbPr/ GBRH V) 480 i / 480P /1080 i MONITORLINK RS-232C CONTROL TM ferrite core 1 Y G 403XF-5K 1.

Connect a MonitorLink/DVI cable from the TV back panel to the Mitsubishi HD Receiver/ Controller back panel. 2. Connect the MonitorLink Control/RS-232 cable from the TV back panel to the Mitsubishi HD Receiver/Controller back panel.

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Connect the L (left) and R (right) audio cables from the HDTV receiver to AUDIO LEFT and AUDIO RIGHT on the MonitorLink section of the TV back panel. Pb 2 B H Pr R V AUDIOLEFT/ (MONO) AUDIORIGHT White 3 MitsubishiHD-5000 receiver/controller back panel OUTPUTS Red INPUT 1 2 3 4 TO AV RECEIVER MONITOR PIP TO DISPLAY S-VIDEO VIDEO AUDIO LEFT AUDIO RIGHT IR OUTPUT NetCommand MonitorLink CONTROL/RS-232 TM White 3 AC IN R DIGITAL AUDIO OUTPUT MonitorLink /DVI TM Red 3.

403XF-5K 1 2 ferrite core NOTE: The 29 pin MonitorLink/DVI and RS-232 cables can be found at your local electronics store. Figure 14. Connecting MonitorLink CAUTION: To assure continued FCC compliance, the user must use a shielded video interface cable with bonded ferrite cores at each end, when using the MonitorLink/DVI input. 21 How Connections Affect the PIP (Picture-In-Picture) and POP (Picture-Outside-Picture) To see a picture in the PIP or POP, you may need to select an input source. If the only input connected is ANT-A, then both the main picture and the PIP/POP will be from that input source.

*If other video equipment is connected, you may be able to view these input sources as the PIP/POP. When connecting your new Mitsubishi TV, it is important to understand which main picture and PIP/POP input sources can and cannot be used together. The table on this page shows which inputs can and cannot be used together and the limitations they may have. If you press the INFO button it will display the current Input, signal (i, p, or i), format, time, day and sleep time. See Operation of PIP and POP, page , for operating instructions. PIP/POP Main Ant-A Ant-B DTV 480i, 480p, 1080i Input-1 Input-2 Input-3 Component(s) (Comp-1, -2) 480i, 480p, 1080i MonLink/DVI Ant-A Ant-B DTV 480i, 480p 1080i OK OK OK** OK Input-1 Input-2 Input-3 OK OK OK OK** Component(s) (Comp. -1, -2) 480i. 480p, 1080i OK OK OK OK OK* OK OK OK No PIP/POP OK* OK OK OK OK OK OK OK** OK OK OK OK OK * No Side-by-Side with the same channel **No Side-by-Side with the same input Component 2 is not available on the WT-42313 22 Chapter . . .*

3 Remote Control Functions Overview of the TV Layer Buttons .....

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.. 30 Remote Control Functions: Overview of the TV Layer Buttons Overview AUDIO: Select the individual audio settings. PIP CH: Scroll up or down through memorized channels in PIP or POP. PIP/POP: Cycle through PIP and POP display choices.
(Figure 1, following page,) Numbers: Individually select channels or input information into TV. SQV (Super Quick ViewTM): Scan through a memorized list of favorite channels. POWER: Turns power on and off for TV and other connected A/V products. Slide Switch: Select A/V product to be controlled by the remote control. VIDEO: Select the individual video settings.
EXCH: Exchange PIP or POP with the main TV picture. GUIDE: When the slide switch is set to CABLE/ DBS/DTV, display the on-screen program guide (some cable boxes and DBS/DTV receivers). INPUT: Select the signal to view; Ant-A, Ant-B, DTV, Component-1, Component-2, Input-1, Input-2, Input-3, MonLink. (Component 2 not available on WT-42313.) QV (Quick ViewTM): Switch to last channel viewed. FORMAT: Change the shape and size of the main TV picture. PIP INPUT: Select the PIP or POP input source. SLEEP: Set the TV to turn off within 2 hours. See Sleep Timer, page 26, for setup instructions. VOL (volume): Change sound level.

MUTE: Turn sound on or off. MENU: Display CH (channel): Scroll up or down through memorized channels. Skips DVD chapters in DVD layer. REW/REV: Rewind or reverse search with your VCR, reverse scan with your DVD, or skip reverse with your CD. PLAY: Play your VCR, DVD, or CD. STOP: Stop your VCR, DVD, or CD. REC: Manually record with your VCR or recordable DVD. ADJUST: Navigate menus, change settings, and move the PIP on-screen location. ENTER: Select a channel number or menu item. HOME: Exit on-screen menus and return to TV viewing.
on-screen menu system. FF/FWD: Fast forward or forward search with your VCR, fast play with your DVD, or skip forward with your CD. PAUSE: Pause your VCR, DVD, AV Disc, or freeze the PIP or POP image. LIGHT: Illuminates buttons or labels on the remote control. Located on the left side of the remote. V-CHIP: Displays V-Chip Passcode screen, use to enable or disable the V-Chip Lock. CANCEL: Clear SQV and some menu entries. Used as a subchannel button in Cable/DBS/DTV layer. INFO: Display on-screen summary of the current input used and any broadcast information available (including current V-Chip information, Signal Source and Format). Additionally, if you press the INFO key, it will display time, day and sleep time.
24 Remote Control Functions: Care and Operation Operation (Figure 2) Installing the Batteries: 1. Remove the remote control's back cover by gently pressing the ridged tab in the direction of the arrow and sliding off the cover. CABLE/DBS/DTV TV VCR DVD AUDIO 1 2 5 8 0 3 POWER 4 7 SQV 6 9 QV SLEEP VIDEO AUDIO MUTE INPUT CHANNEL VOLUME 2. Load the batteries, making sure the polarities (+) and (-) are correct. For ease of installation, install the negative (-) side first. For Best Results from the Remote Control: Be within 20 feet of the equipment. Do not press two or more buttons at the same time unless instructed to. Do not allow to get wet or become heated. Avoid dropping on hard surfaces. Do not use harsh chemicals to clean.

Use only a soft, lightly moistened cloth. Do not mix new and old batteries. Do not heat, take apart, or throw batteries into fire. Use only AAA batteries. ENTER EXCH CANCEL ADJUST HOME MENU INFO V-CHIP FORMAT PIP INPUT PIP/POP PIP CH GUIDE REC STOP PAUSE REW/REV PLAY FF/FWD Figure 1. Remote Control Functions. Operating the Remote Control: You can use the remote to control the TV, CABLE/ DBS/DTV, VCR, DVD, and AUDIO products. Select the product you want to control by moving the slide switch to the appropriate position. The remote control has been preset to operate the TV and other Mitsubishi products. To program the remote control to operate other products, see Use of the Remote Control with Other A/V Products, page .
size AAA batteries Figure 2. Installing the batteries. The remote control may return to its initial setting when the batteries are changed. You may need to reprogram. AAA AAA 25 Remote Control Functions: Channel Selection, Sleep Timer Channel Selection or Enter three numbers (ex.
for channel 2, press 002). Press the channel number and ENT (ex. for channel 2, press 2, then ENT). Enter the channel number and wait four seconds (without pressing ENT).

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The TV will change automatically.

or Note: Use the CANCEL button for digital subchannel (-) selection in the CABLE/DBS/DTV layer. CABLE/DBS/DTV TV VCR DVD AUDIO (Figure 3 & 4) Sleep Timer Setting the Sleep Timer: Press SLEEP on the remote control. A message indicating the length of time the sleep timer is to be set appears on the TV screen. 1 4 7 SQV 2 5 8 0 3 6 9 QV POWER SLEEP Figure 3. Sleep button on remote control Each press of SLEEP will increase the time displayed by 30 minutes, until the maximum value of 120 minutes is reached. After 5 seconds of inactivity, the message will disappear. Press SLEEP to view the remaining time before the timer turns the TV off. Canceling the Sleep Timer: Press the SLEEP button to display the on-screen message. Sleep: min. Figure 4.

On-screen display for sleep timer 26 Press SLEEP repeatedly until OFF is displayed. After 5 seconds of inactivity, the message will disappear. Use of the Remote Control with Other A/V Products CABLE/DBS/DTV VCR DVD AUDIO TV Programming the Remote Control to Use with Other Brands of Audio and Video Products: (Figures 1-3 this page, figures 4-5 following page) 1. 3. 2. Cable Box Codes Code to enter: 119, 120, 121, 122,123, 124 125, 126, 127 139, 137, 102 101, 116 112, 113 117, 100 POWER 1. 2. 3. Move the slide switch at the top of the remote to the product you want to control. Press and hold the POWER button on the remote control.

Enter the first three digit code listed for your equipment, and then release the POWER button on the remote control. Cable box brand General Instruments/ Jerrold Motorola Oak Pioneer Scientific Atlanta Zenith If your cable box code is not listed here, please see page 66 for a complete listing. To reset to default code, enter 000 Figure 1. Programming the remote to control your cable box. 4.

Point the remote control to the equipment and press the POWER button. Note: If the equipment responds, the remote control is properly programmed to operate the equipment. If the equipment does not respond, repeat steps 2-4 with the next three digit code listed in step 3 for your equipment. If you cannot turn the cable box ON by pressing POWER, try pressing CHANNEL or the number buttons. CABLE/DBS/DTV VCR DVD AUDIO TV 2.

1. 3. Satellite brandSatellite Receiver Codes Mitsubishi DTV - DBS DishNetwork Hughes - DBS Panasonic - DBS RCA - DBS Sony - DBS Toshiba-DBS POWER Code to enter: 006 175 173 174 176 177 170, 173, 189, 190, 191 To reset to default code, enter 000 If your satellite receiver code is not listed here, please see page 67 for a complete listing. Figure 2. Programming the remote to control your satellite receiver. CABLE/DBS/DTV VCR DVD AUDIO TV 1. 3. When set to TV, the PLAY, STOP, REW/REV, and FF/FWD buttons will operate the VCR after the VCR codes have been properly programmed into the remote control. 2. VCR Codes VCR brand Mitsubishi Hitachi JVC Phillips / Magnavox Panasonic RCA Sony Toshiba POWER Code to enter: 001, 002 020, 043, 065 030, 054 043, 044, 051 041, 042, 043 020, 053, 065 048, 049, 050 021 If your VCR code is not listed here, please see page 67 for a complete listing.

To reset to default code, enter 000 Figure 3. Programming the remote to control your VCR. 27 Use of the Remote Control with Other A/V Products CABLE/DBS/DTV VCR DVD AUDIO TV 1. 3. DVD/LDP brand Mitsubishi JVC Panasonic Philips Pioneer DVD Samsung Sony Toshiba 2. DVD Player Codes Code to enter: 003 257 250 258, 253, 272 252 261 254 253 POWER If your DVD code is not listed here, please see page 66 for a complete listing. After entering the correct codes in each position of the remote control, use the slide switch to select which product will respond when an operational button is pressed. If you enter a code from the AUDIO chart while the slide switch is set to TV, the volume and mute functions change to match the A/V receiver. This is useful when using an A/V receiver with the TV all the time. In all other cases, only one of the below devices is allowed for each slide switch position.

TV position: TV A/V receiver (volume and mute only) Cable/DBS/DTV position: Cable box Satellite receiver DTV receiver VCR position: VCR DVD position: DVD LD Player Audio position: A/V receiver To reset to default code, enter 000 Figure 4. Programming the remote to control your DVD or LDP. CABLE/DBS/DTV VCR DVD AUDIO TV 1. 3. Audio brand 2.

POWER If your audio code is not listed here, please see page 66 for a complete listing. A/V Receiver Codes Code to enter: Mitsubishi A/V receiver 010, 015, 011, 012, and/or CD player 013, 014 234, 235, 236, 245, Denon 246, 359 Harman Kardon 215, 223, 242 JVC 233, 232 Kenwood 208, 200 Marantz 224, 350 Onkyo 209, 214, 240, 247 Pioneer 205, 207 Sony 222, 249 Technics 218, 219, 221 Yamaha 202, 201, 243, 244 Mitsubishi CD player To reset to default code, enter 000 Figure 5. Programming the remote to control your A/V receiver. If the slide switch is set to TV when you enter an A/V receiver code, VOLUME and MUTE will control the A/V receiver rather than the TV. To return volume and mute control to the TV, set the slide switch to TV, press and hold POWER and enter 000.

If you have a Mitsubishi A/V receiver, the audio position may be used in conjunction with select Mitsubishi CD players. Your audio position must be programmed to either 010 or 011. Plug the CD player power cord into a switched outlet on the back of your A/V receiver. Pressing the POWER button turns On the A/V receiver, along with the CD player. In the audio position, for some CD players, the transport controls (FF, Play, Rew, etc.) operate the CD player. Some manufacturers may change their products, or they may use more than one remote control system. If this is the case, your remote control may not be able to operate your VCR, DVD, cable box, satellite receiver, or A/V receiver. 28 Remote Control Functions: Special Functions When your remote control has been Programmed to operate another manufacturer's product, the function performed on each layer may vary. The most common functions are: Remote Control Functions: Operation of PIP and POP Picture-In-Picture (PIP) and Picture-OutsidePicture (POP) features allow you to view Programming in different ways.

While watching the main screen, you can display programs from other channels and other inputs. To see which inputs can and cannot be used together, see How Connections Affect the PIP and POP, page . You can display large and small PIPs, side-by-side pictures, three POPs, or nine POPs. Activating the PIP and POP Press PIP/POP to choose a display format. Each time the PIP/POP button is pressed on the TV remote control (within seconds of each other), the PIP/POP cycles through the following display options. 1. 2. 3.

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4. 5.

POP: side-by-side pictures POP: three POPs POP: nine POPs PIP: large PIP PIP: small PIP To turn PIP/POP Off, wait at least seconds, and press PIP/POP. The next time you activate PIP/POP, the last used PIP/POP format will be displayed first. 29 Warning: Do not leave stationary PIP/POP, or letterbox images on the screen for extended periods of time. Mix the types of pictures shown. Uneven picture tube aging is NOT covered by your warranty. The normal use of a TV should include a mixture of TV picture types. The most frequently used picture types should fill the screen with constantly moving images rather than stationary images or patterns. Displaying the same stationary patterns over extended periods of time or displaying the same stationary pattern frequently can leave subtle but permanent ghost images. To avoid this, mix your viewing pattern and reduce the initial contrast level. Do not show the same stationary image for more than 15% of your total TV viewing in any given week.

Display constantly moving and changing images that fill the screen whenever possible. This projection TV uses picture tubes to project the image to the screen. All picture tubes age with use. As they age, their light output is gradually reduced. Normal TV pictures fill the screen with constantly changing images. Under these conditions, picture tubes age at an even rate across the entire screen. This maintains a TV picture that is evenly bright over the whole screen. Stationary images or images that only partially fill the screen (leaving black or colored bars to fill the screen), when used over extended periods of time or when viewed repeatedly, can cause uneven aging of the phosphors and leave subtle ghosts from the stationary images in the picture. Still or stationary images may be received from broadcasters, cable channels, satellite channels, DVD discs, video tapes, laser discs, on-line services, web/Internet searching devices, video games, and digital TV tuner/converter boxes. Examples of these types of images can be, but are not limited to the following: Letterbox top/bottom black bars: IMPORTANT NOTES shown at the top and bottom of the TV screen when you watch a widescreen (16:9) movie on a standard (4:3) TV.

Side bar images: solid bars shown on each side of an image when watching a standard (4:3) program on a widescreen (16:9) TV. News and stock-market report bars: ticker running at the bottom of the TV screen. Shopping channel logos & pricing displays: bright graphics that are shown constantly or repeatedly in the same location. Video game patterns and scoreboards Bright station logos: moving or low-contrast graphics are less likely to cause uneven aging of the picture tubes. Online (Internet) websites: or any other stationary or repetitive computer style images, including digital photos Closed Captioning Mitsubishi recommends using a gray background rather than black or a bright color if you frequently use closed captioning. 30 Chapter . . . 4 Menu Screen Operations The ViewPoint® Menu System ..

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..... 50 AUDIO/VIDEO SETTINGS Menu.....
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.. @@@@@@@@@@@@@@@@@@@On-screen instructions provide complete menu choice information. @@@@@@@@@@@@@CANCEL to clear a setting, or stop an automatic function. MENU to move back one menu screen at a time. @@@@@@@@@@@@See pages - for more detailed setup information. @@CAPTIONS menu CHANNEL EDIT Menu (Figure 5) and Ant-B, · Manually add or delete channels from memory · Name channels for Ant-A and Ant-B · Add your favorite channels to a SQV (Super Quick ViewTM) list. See pages - for more detailed setup information. · Customize the channel information for Ant-A ENTER for menu or to start MENU to return Figure 5. CHANNEL EDIT menu (ANTENNA) 33 Main Menu Screens: Overview, continued V-CHIP LOCK Menu (Figure 6) MAIN MENU V-CHIP LOCK menu Lock by Time Lock Time Unlock Time Front Button Lock V-CHIP : Off : 12:00 AM : 12:00 AM : Off Lock the TV by selecting times or choosing programs to block based on rating signals sent by your local broadcasting system.

NOTE: For WS-, WS- or WS- set the Front Button Lock at this screen. See pages - for more detailed setup information. See page for V-Chip rating information. orMENU to return change option ENTER for select ADJUST to menu or to start ENTER for menu MENU to return Figure 6. V Chip Lock Menu, WS-48313, WS-55313, WS-65313 ADVANCED FEATURES Menu (Figure 7) · Adjust colors automatically or manually, using Color Balance · Set your TV to turn on automatically · Converge (align) the three main colors · Display a blue screen when viewing an input with no signal · Enhance the darker parts of bright pictures See pages - for more detailed setup information. ENTER for menu or to start MENU to return Figure 7. ADVANCED FEATURES Menu AUDIO/VIDEO SETTINGS Menu (Figure 8) Adjust some or all of the A/V settings. Each input can be set to your preferences. A/V Reset on the menu allows you to return the A/V settings for the current input to the factory presets. A/V Reset on the front control panel resets all inputs at one time.
See pages - for more detailed setup information. ENTER for menu or to start MENU to return 34 Figure 8. Audio/Video Settings Menu SETUP Menu: Memorize Channels, Memorize Menu, Input Assignment Memorize Channels (Figure 9) Select Memorize Channels for each antenna you use. The TV will find and remember strong channels and skip the unused or weaker channels. ENTER for menu or to start MENU to return DTV Note: If you have a DTV receiver connected, you will need to use that receiver's channel memorization system to memorize digital channels.
Figure 9. Memorize Channels Menu MEMORIZE Menu (Figure 10) Stop memorization at any time by pressing CANCEL. Channels memorized prior to pressing CANCEL will stay in memory. After channels are memorized, you may select memorized channels in ascending or descending order by pressing the CHANNEL button on the remote control. ENTER for menu or to start MENU to return Figure 10.
Memorize Menu INPUT ASSIGNMENT Menu (Figure 11) INPUT ASSIGNMENT turns off unused inputs, turns them on again or changes the name of the input. If you turn an input Off, it will be skipped when you press INPUT on the remote control. Choices are: ANT-A, ANT-B: On or Off DTV: Y/Pb/Pr, RGB, RGBHV or Off COMPONENT(S)* Cycle through a list of preset names or Off INPUT-1, INPUT-2, INPUT-3: Cycle through a list of preset names or Off MonitorLink (MONLINK) Cycle through a list of preset names or Off * COMPONENT-2 is not available for WT-42313 Figure 11.

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Input Assignment Menu WT-42313 35 SETUP Menu: Manually Setting the Clock Clock Setting (Manual) (Figure 12) The Clock Setting menu default allows the clock time to be set manually. To set the clock automatically, please see page . To set the clock manually, first select the current time, including AM or PM. Press hold or or to slowly adjust the time. Press and to quickly adjust the time. ENTER for menu or to start MENU to return Figure 12. Clock Time (Figure 13) Set Day After manually selecting the current time, select the current day.

ENTER for menu or to start MENU to return Figure 13. Set Day 36 SETUP Menu: Automatically Setting the Clock Clock Setting (Auto) (Figure 14) Set the Clock Setting to Auto to automatically set the day and time using Extended Data Service (XDS) time data. This data is automatically retrieved when tuned to a PBS channel or other channel in your area that provides this service. ENTER for menu or to start MENU to return Figure 14. Clock Setting (Auto) Time Zone (Figure 15) Select the correct time zone (Atlantic, Eastern, Central, Mountain, Pacific, Alaska, or Hawaii) for your area when Auto has been selected as the Clock Setting. Figure 15. Time Zone Daylight Savings Time (Figure 16) Applies = uses DST Select the Daylight Savings Time (DST) option that your state uses when Auto has been selected for the Clock Setting. Ignore = does not use DST The clock time and day will be set automatically after tuning to a channel carrying the Extended Data Service (XDS) time data (usually your local PBS channel). Figure 16. Daylight Savings Time 37 SETUP Menu: Language, Front Button Lock (WT-) Language (Figure 17) Display the on-screen menus in either English or Spanish (Español).

The first time you powered On your TV, you were requested to select an on-screen menu language. If you choose to change the selection, all menu text will immediately switch to the language of your choice. ENTER for menu or to start MENU to return Figure 17. Language / Idioma Front Button Lock for WT-42313 (See V-Chip Menu for other models) (Figure 18) Disable controls on the front panel to prevent anyone from accidentally changing settings. Select On to lock out the operations of the front panel button and select Off to restore the operations of the front panel buttons.

If the front panel buttons have been locked and you misplace the remote control, you can restore the function of the front panel buttons by pressing and holding the MENU button on the front panel for more than seconds. If the TV is already on, a message will be displayed to confirm the release of the Front Button Lock. ENTER for menu or to start MENU to return Figure 18. Front Button Lock for WT-42313 38 SETUP Menu: Energy Mode (WS-, WS-, WS-) Energy Mode (Figure 19) This feature is only for models WS-, WS- and WS-. Change the setting to Low (less than watt) and the TV will operate in an energy saving mode when it is turned off.

If the Energy Mode is set to Low, it will not be possible to record while the TV's power is off because there will be no signal from LOOP OUT (on the TV back panel) to the VCR and/or cable box. ENTER for menu or to start MENU to return NOTE: The Standard setting has a faster turn on time, but uses more power than the Low setting. Standard is recommended. Figure 19. Energy Mode for WS-48313, WS-55313, WS-65313 39 CAPTIONS Menu: Overview CAPTIONS Menu (Figure 20) Turn On or Off the closed caption decoder, select the type of captions or text, and choose black or translucent gray as the background color for the closed caption area. Broadcasters can send either Standard or Text closed captioning. ENTER for menu or to start MENU to return Figure 20. CAPTIONS menu Standard closed captioning follows the dialogue of the characters on-screen and displays in a small section of the screen. Text closed captioning often contains information such as weather or news and covers a large portion of the on-screen program. Your TV can decode four different standard and four different text closed captioning signals from each TV station.

However, each TV station may broadcast only one or two closed captioning signals, or none at all. When Text closed captioning is selected, a large black or gray box will appear on your TV screen if no signal is broadcast. 40 CAPTIONS Menu: Closed Captions, Background Color Closed Captions (Figure 21) MAIN MENU CAPTIONS menu Display one of the following types of Closed Captions: CC1, CC2, CC3, or CC4: Standard closed captioning signals. Text1, Text2, Text3, or Text4: Text closed captioning signals. On if mute: Closed captions when mute. When selected, the standard closed captioning signal (CC1) will turn on/off by pressing the MUTE button on the TV remote control. Off: No closed captions. Closed Captions : On if mute : Gray CC Background ENTER for menu or ADJUST to select to start or MENU to return change option MENU to return Figure 21. Closed Captions The content of captions is determined by the broadcaster. If your captions show strange characters, misspellings, or odd grammar, it is not a malfunction of the TV.

CC Background (Figure 22) Display the background color as either black or translucent gray, to make the closed captions easier to read. Note: Mitsubishi recommends using the translucent gray background to prevent CRT aging and/or burn-in. Figure 22. CAPTIONS menu 41 CHANNEL EDIT Menu: Antenna, Channel Selection Antenna (Figure 23) Select Ant-A or Ant-B. For each antenna, you can add or delete channels in memory, name channels, and add channels to the SQV (Super Quick ViewTM) list.

ENTER for menu or to start MENU to return Figure 23. Antenna Channel (Figure 24) Select to edit the channel selections. You can add or delete from memory, name, or add to the SQV (Super Quick ViewTM) list. After selecting Channel, editing can be done using the Adjust buttons or entering the digit channel number you want to change (Example for channel). ENTER for menu or to start MENU to return Figure 24.

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