



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for MITSUBISHI WS-55311. You'll find the answers to all your questions on the MITSUBISHI WS-55311 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-55311  
User guide MITSUBISHI WS-55311  
Operating instructions MITSUBISHI WS-55311  
Instructions for use MITSUBISHI WS-55311  
Instruction manual MITSUBISHI WS-55311

**MITSUBISHI**  
THE BIG SCREEN COMPANY™  
*Digital*

## Owner's Guide

Projection Television Models  
VS-50111, VS-60111, WT-42311, WS-48311, WS-55311,  
WS-65311, WS-55411, WS-65411 and WS-73411

*Technically Anything is Possible*  
visit our website at  
[www.mitsubishi-tv.com](http://www.mitsubishi-tv.com)

The image shows the cover of the Mitsubishi Owner's Guide. At the top is the Mitsubishi logo and the text 'THE BIG SCREEN COMPANY™' and 'Digital'. Below that is the title 'Owner's Guide' in a large, stylized font. Underneath the title, it lists 'Projection Television Models' and several model numbers: VS-50111, VS-60111, WT-42311, WS-48311, WS-55311, WS-65311, WS-55411, WS-65411, and WS-73411. The bottom half of the cover features a black and white photograph of a modern living room with a large Mitsubishi television mounted on the wall. A white sofa, a coffee table, and a floor lamp are also visible. At the bottom of the cover, the slogan 'Technically Anything is Possible' is written in a script font, followed by 'visit our website at' and the website address 'www.mitsubishi-tv.com'.

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<http://yourpdfguides.com/dref/2928917>

**Manual abstract:**

**@@NO USER SERVICEABLE PARTS INSIDE. @@@Warning:** To avoid permanently imprinting a fixed image onto your TV screen, please do not display the same stationary images on the screen for more than 15% of your total TV viewing in one week. Examples of stationary images are letterbox top/bottom bars from DVD disk or other video sources, side bars when showing standard TV pictures on widescreen TV's, stock market reports, video game patterns, station logos, web sites or stationary computer images. Such patterns can unevenly age the picture tubes causing permanent damage to the TV. Please see page 51 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. 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. IMPORTANT SAFEGUARDS...**

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.....8 Unpacking Your New TV...

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*51 INSTALLATION Table of Contents SETUP OPERATION Remote Control Functions .....*

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*....56 System 4 Home Theater IR Control.*

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60-65 Appendix A: Bypassing the V-Chip Lock .....

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76-77 Mitsubishi Projection TV Limited Warranty .....

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...78 3 Please read the following safeguards for your TV and retain for future reference. Always follow all warnings and instructions marked on the television.  
1. Read, Retain and Follow All Instructions IMPORTANT SAFEGUARDS 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. 2.

Heed Warnings 3. *Cleaning* 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 Important Safeguards* 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 personnel under the following conditions: (a) When the power-supply cord or plug is damaged. (b) If liquid has been spilled, or objects have fallen into the TV. (c) If the TV has been exposed to rain or water. (d) If the TV 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 TV to its normal operation. (e) If the TV has been dropped or the cabinet has been damaged. (f) When the TV exhibits a distinct change in performance - this indicates a need for service.

18. *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. Upon completion of any service or repair to the TV, ask the service technician to perform safety checks to determine that the TV is in safe operating condition. 19. *Safety Check* 20. *Heat* The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat. 5 **CONSUMER RELATIONS** If you have questions regarding your television Call (800) 332-2119, or email us at [MDEAservice@bigscreen.me.com](mailto:MDEAservice@bigscreen.me.com) **REMOTE CONTROL AND OWNER'S GUIDE** Call (800) 553-7278 to order a replacement Remote Control or Owner's Guide.



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Or visit our website at [www.Mitsubishi-TV.com](http://www.Mitsubishi-TV.com) Thank You Letter.....

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..8 Unpacking Your New TV .....

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....9 Special Features .  
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....9 Introduction 7 We at Mitsubishi Would Like to Thank You To the Mitsubishi Consumer: 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 understands that our customers demand and expect the very best. Mitsubishi is founded on the core beliefs and philosophies that drive us to deliver products that are both cutting-edge and upgradeable. While some televisions are destined for near-future obsolescence, Mitsubishi's HD-upgradeable televisions are engineered with "future-ability." Your television will continue to provide unparalleled home entertainment for years! Thank You Letter Whether this is your first Mitsubishi consumer electronics product or an addition to your growing Mitsubishi family, we hope that this television will bring you and your family many hours of enjoyment. **THE 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 1394 (FireWire®) connection, HAVi system control, and 5C copy protection. 8 Part 1: Introduction Unpacking Your New TV Please take a moment to review the following list of items to ensure that you have received everything included: 1 Remote Control type A or B 2 (2)

AAA Batteries 3 (2) IR Emitter Cables (WS-55411, WS-65411 and WS-73411 Only) 4 Your new High Definition (HD) Upgradeable Special Features bigscreen television has many special features that make it the perfect addition to your home entertainment system. A few of these special features are described below. Product Registration Card Owner's Guide Quick Reference Card See pages 20 & 21 for more information. CABLE/DBS TV VCR DVD AUDIO With the use of an optional HDTV receiver (Mitsubishi SR-HD400 or similar model) your Mitsubishi bigscreen can display high definition pictures.

HD Upgradeable Unpacking Your New TV / Special Features 1 4 7 SQV 2 5 8 0 3 6 9 QV POWER 16:9 Widescreen TV SLEEP VIDEO AUDIO MUTE INPUT CHANNEL VOLUME ENTER EXCH CANCEL ADJUST HOME 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. See pages 62-65 for more information. MENU INFO V-CHIP PIP INPUT PIP CH FORMAT PIP/POP GUIDE REC STOP PAUSE REW/REV PLAY FF/FWD Or B (WS-55411, WS-65411, and WS-73411) I A Your Mitsubishi narrow screen displays widescreen HD signal source(s) through the letterbox format. The gray bars on top and bottom make widescreen viewing possible. See pages 60 & 61 for more information. 4:3 Narrow Screen TV (VS-50111, VS-60111, WT-42311, WS-48311, WS-55311, and WS-65311) Remote Control Remote Control PIP/POP Viewing Option (2) AAA Batteries 2 See pages 58-59 for more information. Using Picture-in-Picture and Picture-outsidePicture give you exciting options for viewing favorite programs. V-Chip Technology 3 (2) IR Emitter Cables (WS-55411, WS-65411 and WS-73411) Ferrite core See pages 40-42 for more information.

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. 4 Product Registration Card Your Mitsubishi remote control can be programmed to control many other audio/video components. See page 26 & 27 for more information. Multibrand Remote Control 9 Installation Front Control Panel .

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.....12 Back Panel ...

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...13 How Connections Affect: PIP and POP ..

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.... 14 System 4 Home Theater IR Control .

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.... 14 Connecting Your New Mitsubishi Bigscreen: Antenna or Wall Outlet Cable .

..16 Cable Box .....

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.....16 VCR ...

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.. 17 Audio Receiver...

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.....18 DVD Player.

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...19 DTV Receiver ..

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..20 Connecting the System 4 Home Theater IR Control ...

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.22 IMPORTANT NOTES .....

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...23 11 Front Control Panel Many remote control buttons are duplicated on the front control panel. These buttons are shaded in Figure 1 and Figure 2. Please see Remote Control Functions, pages 54-58, for an explanation of their usage. S-VIDEO VIDEO L-AUDIO-R POWER VOL CH ENTER MENU A/V RESET INPUT TIMER ADJUST ADJUST ENTER MENU CANCEL INPUT-3 Figure 1. The ADJUST, ENTER, MENU, and CANCEL buttons may be used to access or navigate through the screen menus. S-VIDEO VIDEO L-AUDIO-R POWER VOL CH ENTER MENU A/V RESET INPUT TIMER ADJUST ADJUST ENTER MENU CANCEL INPUT-3 Figure 2. The ADJUST, ENTER, MENU, and CANCEL buttons may be used to access or navigate through the screen menus (for models WT-42311 and WS-48311 only).

Front Control Panel 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 time is used to turn On at a specific time, the green timer light blinks while the TV is Off. See Timer Menu, pages 43-44 for timer setup instructions. A/V RESET CANCEL Press this button to reset the A/V memory on all eight inputs (seven inputs for the VS-50111 and VS-60111) to the factory default settings. See Audio/Video Settings Menu, page 48 for instructions. A/V Reset S-VIDEO VIDEO L-AUDIO-R 12 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. Input 3 Part II: Installation Back Panel TV Back Panel 1 MONITOR OUT 1 TV Rear Side Panel 2 INPUT 2 Y G S-VIDEO 5 D T V ( Y PbPr/ GBRH V ) 480 i / 480P /1080 i 6 COMPON E NT 4 80 i / 4 80P / 1080i 2 1 2 Y Pb B H Pb V I D EO Pr R V Pr AUDIOLE F T / ( MONO ) AUDIO L E FT / ( MONO ) AUDIO R I G HT AUDIO R I GH T 6 3 AN T - A LOO P OU T AN T - B 5 IR EMITTER REPEATER LOO P OU T 3 AN T - A AN T - B 4 1 The Monitor Output sends the TV audio and video signals (excluding component video or DTV video) to an A/V receiver or other equipment. Monitor Out Back Panel 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. 3 Inputs 1-2 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 component, such as a cable box or VCR.



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4 Antenna (ANT-A, LOOP OUT, and ANT-B) Connecting IR emitters here allow the TV to automatically change a digital A/V receiver's input in a home theater setup and pass IR commands to other A/V devices. (Applicable for WS-55411, WS-65411 and WS-73411 only.)

5 IR Emitter Repeater (System 4 Home Theater IR Control) This input is used to connect a DTV receiver and can be configured for HDTV component (YPbPr), RGB sync on green, and RGB plus H&V. Please see Appendix B, page 67, for signal compatibility. 6 DTV Input These inputs can be used for the connection of A/V equipment with component video outputs, such as a DVD player or Video Game System. Please see Appendix B, page 67, for signal compatibility. (Models VS-50111 and VS-60111 [4:3] only include Component Input 1.)

Component Inputs 1-2 13 How Connections Affect the PIP and POP 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 bigscreen, it is important to understand which main picture and PIP/POP input sources can and cannot be used together. Table 1 shows which inputs can and cannot be used together and the limitations they may have. If you press the INFO key it will display the current Input, signal (480i, 480p, or 1080i), format, time, day and sleep time. See Operation of PIP and POP, pages 58-62, for operating instructions. PIP/POP Main Ant-A Ant-B DTV 480i, 480p, 1080i OK Input-1 Input-2 Input-3 OK OK Component-1 (Component-2) 480i, 480p, 1080i OK Ant-A Ant-B DTV 480i, 480p, 1080i Input-1 Input-2 Input-3 Component-1 (Component-2) 480i, 480p, 1080i OK\* No PIP/POP OK OK\* OK OK OK OK OK\*\* OK OK OK OK OK\*\* OK OK OK OK OK\*\* How Connections Affect the PIP and POP Table 1. \*No Side-by-Side with the same channel. \*\*No Side-by-Side with the same input.

How Connections Affect the System 4 Home Theater IR Control (Applicable for WS-55411, WS-65411 and WS-73411 only.) The Mitsubishi System 4 Home Theater IR Control is a special feature that makes it easier to use your TV with a digital surround sound A/V receiver. Once your equipment is properly connected and set up, your TV and digital A/V receiver will change inputs together to match high resolution pictures with the proper surround sound. When you change inputs on your TV to watch different video products, your TV will send signals via your remote control and the infrared emitters to your digital A/V receiver to change inputs. You will automatically hear the high quality digital surround sound from digital products like your DTV receiver and DVD player, and high quality analog stereo or surround sound from non-digital products like your VCR. Additionally, all IR remote signals from your Mitsubishi remote or other manufacturer's remote will be passed through your TV to your A/V devices. Your A/V devices can be hidden or behind cabinet doors and controlled by pointing the remote at the TV. 14 Part II: Installation Special Setups: A/V Equipment (For System 4 Home Theater IR Control) on page 17, with one exception. Connect the audio output connection to the appropriate input on the back of the A/V receiver (as shown in Table 1). 19 (using the COMPONENT-1 input), with one exception.

Connect the digital audio output connection on the DVD player to the appropriate digital input on the back of the digital A/V receiver (as shown in Table 1). VCR: Connect the cables to the TV as directed -Digital Input Assignment for DVD: Assign the digital input you used for your DVD player to the A/V receiver's DVD input selector. This procedure is explained in your A/V receiver's Owner's Guide. DVD: Connect the cables as directed on page -Digital Assignment for DTV: Assign the How Connections Affect the System 4 Home Theater IR Control digital input you used for DTV to the A/V receiver's DTV input selector. This procedure is explained in your A/V receiver's Owner's Guide.

20-21, with one exception. Connect the digital audio output connection on the DTV receiver to the appropriate digital input on the back of the digital A/V receiver (as shown in Table 1). 18, with two additions. Use an S-Video cable in step 1 if you have an S-Video VCR. The TV outputs should be connected to the A/V receivers input marked TV.

DTV: Connect the cables as directed on pages 22. Infrared Emitter: Connect as shown on page To correctly setup System 4 use the following settings Special Setups: TV -TV Speakers: OFF -Audio Output: Fixed See Audio Video Menu, page 31. See Input Assignment Menu, page 31. A/V Receiver: Connect as directed on page -TV Inputs Appropriately Named Remote Control, pages 26-27. -Auto Standby: ON (See your A/V receiver's Not available with all A/V receivers. Owner's Guide for this procedure). For all TV use, the sound will come from the A/V receiver. -Set the slide switch to the TV position and follow the programming instructions using the A/V receiver code appropriate for your A/V receiver, page 27 (Figure 5). Samples of various brands of AV Receivers are shown below. The products listed at the top of this column connect to the below listed inputs on the back of the appropriate A/V receiver.

TV/Cable SAT/DBS/DTV VCR DVD Brand Mitubishi Mitsubishi Denon JVC Kenwood Onkyo Pioneer Sony Yamaha Model M-VR1000/MR800 M-RVR900/M-VR700 AVR2800 RX-888V VR-2080 TX-DS575 VSX-21 STR-DE825 RX-V2095 TV TV TV/DBS TV AV AUX VIDEO 3 TV/SAT TV/DBS TV/DBS VCR 2 CABLE/DBS VCR 2 VIDEO 2 LD VIDEO 2 VIDEO 2 VIDEO 2 VCR 2 VCR 1 VCR VCR 1 VCR 1 VIDEO 1 VIDEO 1 VCR 1 VIDEO 1 VCR 1 DVD DVD DVD/LD DVD DVD DVD/LD DVD/LD Table 1. A/V receiver back panel input table (Connections vary by model; you may need to test individually) 15 Connecting an Antenna, Wall Outlet Cable, or Cable Box Note: The TV back panel and connections shown here are for reference only and may vary by model. (Figure 1) VHF Antenna (Channels 2-13) UHF Antenna (Channels 14-69) TV back panel (Detailed View) Flat Twin Lead External Antenna or Cable Flat Twin Lead TV back panel MONITOR OUT INPUT 2 Y G S-VIDEO ANT - A DT V (Y PbPr/ GBRH V ) 480 i / 480P /1080 i COMPONENT 480 i / 480P/ 1080i 2 Y Pb B Separate UHF and VHF Antennas 1 1 H Pb V I D E O Pr R V Pr AUDIOLEFT / (MONO) AUDIO L E FT / (MONO) AUDIO RIGHT AUDIO R IGH T Connecting an Antenna, Wall Outlet Cable, or Cable Box Connect the UHF and VHF antenna leads to the UHF/VHF combiner. 2 Push the combiner onto ANT-A on the TV back panel. 300 Ohm to 75 Ohm Combiner UHF ANT - A LOO P OU T ANT- B 2 IR EMITTER REPEATER VHF Back Side 1 UHF/VHF combiners are not provided with the TV.



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They are available at most electronic stores. Figure 1. Connecting separate UHF and VHF antennas. Note: See page 5 for Outdoor Antenna Grounding TV back panel (Detailed View) Twin Lead Antenna, Coaxial Lead Antenna, or Wall Outlet Cable For antenna with twin flat leads (Figure 2) 1 300 Ohm Flat Twin Lead 75 Ohm Coaxial Cable MONITOR OUT 1 INPUT 2 Y G D T V ( Y PbPr/ GBRH V ) 480 i / 480P /1080 i AN T - A COMPONENT 480 i / 480P/ 1080i 2 Y S-VIDEO Pb B H Pb V I D EO Pr R V Pr AUDIOLE FT / ( MONO) Connect the 300ohm twin leads to the transformer. Push the 75ohm side of the transformer 2 onto ANT-A on the TV back panel.

300ohm to 75ohm matching transformers are not provided with the TV. They are available at most electronic stores. AUDIO L E FT / ( MONO) AUDIO RIGHT AUDIO R IGH T 3 2 Optional 300 Ohm to 75 Ohm Matching Transformer V ( Y PbPr/ GBRH V ) DT MONITOR OUT 1 INPUT 2 480 i / 480P /1080 i Y AN T - A LOO P OU T AN T- B IR EMITTER REPEATER 1 Figure 2. Connecting twin lead antenna, coaxial lead antenna, or wall outlet cable. Note: See page 5 for Outdoor Antenna Grounding G Y S-VIDEO COMPONENT 480 i / 480P/ 1080i 2 Pb B H Pb V I D EO Pr R V Pr AUDIO- LEFT / ( MONO) AUDIO L E FT / ( MONO) AUDIO R IGH T AUDIO RIGHT For cable or antenna with coaxial lead (Figure 2) 3 Connect the incoming cable to ANT-A on the TV back panel.

Incoming Cable AN T - A LOO P OU T AN T- B TV back panel (Detailed View) 1 IR EMITTER REPEATER AN T - A LOO P OU T AN T- B (Figure 3) 1 Cable Box 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. 2 3 Cable Box back panel section IN OUT Figure 3. Connecting the cable box.

Note: See page 5 for Outdoor Antenna Grounding Digital Cable Box owner's guide for instructions on optimal connections to this TV. Note: If you have a digital cable box, refer to your Additional connection cables are not provided with the TV. They should be available at most electronic stores. 16 Part II: Installation Connecting a VCR MONITOR OUT 1 INPUT 2 D T V ( Y PbPr/ GBRH V ) 480 i / 480P /1080 i COMPON E NT 4 80 i / 4 80P/ 1080i 2 Y G Y S-VIDEO Antennas or Wall Outlet Cable (Figure 1) Note: The TV back panel and connections shown here are for reference only and may vary by model. Pb B H Pb V I D EO Pr R V Pr AUDIO- LE F T / ( MONO) AUDIO L E FT / ( MONO) AUDIO - R IGH T AUDIO R IGH T Incoming Cable AN T - A LOO P OU T AN T- B 1 IR EMITTER REPEATER TV back panel (Detailed View) AN T - A LOO P OU T AN T- B 2 3 VCR back panel 2 IN Antenna MONITOR OUT 1 AUDIO OUT AUDIO IN VIDEO OUT (Y/C) 1 MONITOR L 2 L OUT 3 S-VIDEO 1 INPUT 2 Y G R 480 i / 480P /1080 i DT V ( Y PbPr/ GBRH V ) COMPONENT 480 i / 480P /1080i 2 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 ANTENNA IN on the VCR back panel. 3 One from VCR back panel ANTENNA OUT to ANT-B on the TV back panel. 4 Now complete Figure 3, steps 1-2. Y Pb B H Pb Figure 1. Connecting VCR with antennas or wall outlet table.

V I D EO Pr R V Pr AUDIO- LEFT / ( MONO) AUDIO L E FT / ( MONO) AUDIO - R IGH T AUDIO RIGHT (Figure 2) Cable Box 1 Connect the incoming cable to ANT-A on the TV back panel. Connect three coaxial cables as follows: 2 One from LOOP-OUT on the TV back panel to IN on the back of the cable box. 3 One from OUT on the back of the cable box to ANTENNA IN on the VCR back panel. 4 One from ANTENNA OUT on the VCR back panel to ANT-B on the TV back panel. 5 Now complete Figure 3, steps 1-2. Incoming Cable AN T - A LOO P OU T AN T- B 1 IR EMITTER REPEATER Cable Box Rear Terminals 2 4 TV back panel (Detailed View) OUT IN 2 AN T - A LOO P OU T AN T- B 3 VCR back panel Connecting a VCR 3 IN Antenna 1 AUDIO OUT AUDIO IN VIDEO OUT (Y/C) 1 MONITOR L 2 L R 4 OUT R Figure 2. Connecting VCR with cable box. TV back panel (Detailed View) 1 INPUT 2 S-VIDEO MONITOR OUT INPUT 2 Y G S-VIDEO D T V ( Y PbPr/ GBRH V ) 480 i / 480P /1080 i COMPON E NT 4 80 i / 4 80P/ 1080i 2 1 (Figure 3) Y Pb Pr Composite Video with Audio or S-Video with Audio 1 Connect a video cable from VIDEO OUT on the VCR back panel to VIDEO INPUT-1 or INPUT-2 on the TV back panel. If you have an S-VHS VCR, follow the same steps using the S-Video terminals the VCR and TV (in place of the composite terminals). You may connect to the S-VIDEO or VIDEO terminal but not to 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.

The red cable connects to the R (right) channel and the white cable connects to the L (left) channel. If your VCR is mono (non-stereo), connect only the white (left) cable. Pb B H V I D EO Pr R V V I D EO 1 Attach only one cable type White 2 AUDIOLE F T / Red ( MONO) AUDIO L E FT / ( MONO) AUDIO R IGH T AUDIOLEFT / ( MONO) LOO P OU T AUDIO R IGH T 1 AN T - A AN T- B AUDIOR IGH T IR EMITTER REPEATER 1 IN AUDIO OUT AUDIO IN VIDEO OUT (Y/C) 1 MONITOR White 1 L 2 L R Attach only one cable type VCR back panel If your VCR has a video channel or RF ON/OFF switch, set to OFF. Antenna 2 Red R 1 OUT Figure 3. Connecting the VCR Audio/Video.

both. 2 Additional connection cables are not provided with the TV. They should be available at most electronic stores. 17 Connecting an Audio Receiver Note: The TV back panel and connections shown here are for reference only and may vary by model. (Figure 1) 1 TV back panel (Detailed View) MONITOR OUT Stereo Audio System MONITOR OUT 1 INPUT 2 Y G S-VIDEO D T V ( Y PbPr/ GBRH V ) 480 i / 480P /1080 i COMPON E NT 4 80 i / 4 80P/ 1080i 2 V I D EO Y Connecting an Audio Receiver 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.

The red cable connects to the R (right) channel, and the white cable 1 connects to the L (left) channel. Audio system back panel section 2 Turn off the TV's speakers through the A/V SETTINGS Menu, page 48. 3 Set the audio system's input to the TV or AUX position to hear the TV's audio Figure 1. Connecting the Stereo Audio System. through your stereo system. S-VIDEO Pb B H Pb AUDIO- LE F T / V I D EO Pr R White V Pr ( MONO) AUDIO- LE F T / ( MONO) AUDIO L E FT / ( MONO) AUDIO - AUDIO - R IGH T Red AUDIO R IGH T R IGH T AN T - A LOO P OU T AN T- B IR EMITTER REPEATER White CD IN AUX IN IN TAPE 1 OUT IN TAPE 2 OUT L SUBWOOFER OUT ( MONO) Red R Additional connection cables are not provided with the TV.



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They should be available at most electronic stores. ( TV back panel Detailed View) MONITOR OUT INPUT 2 1 S-VIDEO V I D E O A/V Receiver (Figure 2) 1 AUDIO L E F T / (MONO) MONITOR OUT 1 INPUT 2 Y G D T V ( Y PbPr/ GBRH V ) 480 i / 480P /1080 i COMPON E NT 4 80 i / 4 80P/ 1080i 2 Y AUDIO R I GH T S-VIDEO Pb B H Pb Yellow V I D E O Pr R 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. 2 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. 3 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.

The red cable connects to the R (right) channel, and the white cable connects to the L (left) channel. 2 3 W h i t e 1 A b V Pr White AUDIO L E F T / A Red (MONO) ( AUDIO R I GH T I A R R e d Yellow AN T - A LOO P OU T A N T - B S-Video AV Receiver (M-VR900) Back panel section IR EMITTER REPEATER Figure 2. Connecting the A/V Receiver. Please see your A/V receiver Owner's Guide for more detailed connections. 18 Part II: Installation Do not display the same stationary images on the screen for more than 15% of your total TV viewing in one week. Examples of stationary images are letterbox top/bottom bars from DVD or other video sources, side bars when showing standard TV pictures on widescreen TV's, stock market reports, video game patterns, station logos, web sites, or stationary computer images. Such patterns can unevenly age the picture tubes causing permanent damage to the TV. Please see pages 23 and 51 for a detailed explanation. WARNING: Connecting a DVD Player TV back panel (Detailed View) COMPON E NT 4 80 i / 4 80P/ 1080i 2 Note: The TV back panel and connections shown here are for reference only and may vary by model. (Figure 1) 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 COMPONENT-2 on the TV back panel, matching the correct components: 1 2 3 Connecting a DVD Player or S-Video Device Y Pb Pr Y to Y Cb or Pb to Pb 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.

The white cable 4 connects to the L (left) channel, and the red cable 5 connects to the R (right) channel. 1 2 White Red AUDIO L E F T / ( MONO ) AUDIO R I GH T 3 4 5 DVD back panel 1 2 3 AUDIO OUT Y VIDEO 5.1 CH SURROUND 2CH BITSTREAM/PCM CB S White Red CENTER DVD PLAYER MODEL MITSUBISHI AC IN CR VIDEO OUT SUBWOOFER SURROUND 5 4 L R FRONT COAXIAL OPTICAL POWER SUPPLY 120V~ 60Hz POWER CONSUMPTION 20W SERIAL NO. MANUFACTURED DD-5000 DISTRIBUTED BY MITSUBISHI DIGITAL ELECTRONICS AMERICA, INC. 9351 JERONIMO ROAD IRVINE, CA 92618 MADE IN JAPAN Figure 1.

Connecting a DVD Player with Component Video. Connecting an S-Video Device 1 See Appendix B, page 67, for component video signal compatibility information. For digital audio connections, see your DVD and A/V receiver Owner's Guides. TV back panel (Detailed View) INPUT 2 (Figure 2) S-VIDEO Other S-Video Device 1 1 INPUT 2 V I D E O 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.

The red cable connects to the R (right) channel and the white cable connects to the L (left) channel. -If your S-Video Device is mono (nonstereo), connect only the white (left) cable. S-VIDEO 1 AUDIO L E F T / (MONO) 2 V I D E O AUDIO AUDIOLEFT / (MONO) White R I GH T A UDI O R IGH T Red 2 Any S-Video Device AUDIO OUT AUDIO IN VIDEO OUT (Y/C) White L 1 2 L R 2 1 Red R Figure 2. Connecting S-Video Device. 19 Connecting a DTV Receiver Note: The TV back panel and connections shown here are for reference only and may vary by model. (Figure 1) DTV Connectors and Adaptors 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 1.

DTV connectors and adaptors. Connecting a DTV Receiver TV back panel (Detailed View) DTV Receiver with Component Video Connections (Figure 2) 1 S-VIDEO 1 INPUT 2 DT V ( Y PbPr/ GBRH V ) 480 i / 480P /1080 i 3 3 Y G INPUT 2 1 Y G S-VIDEO DT V ( Y PbPr/ GBRH V ) 480 i / 480P /1080 i Pb B 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). 2 Connect the incoming terrestrial antenna or cable (not satellite) to ANT-A on the TV back panel (a coaxial splitter, available at most electronic supply stores, may be required to complete this installation). 3 V I D E O Pr R Pb B AUDIOLEFT / (MONO) 4 4 White V I D E O Pr R AUDIOR IGH T AUDIO- Red LEFT / (MONO) AUDIOR IGH T AN T - A 2 Incoming Antenna, or Cable. AN T - A 2 Connect the RCA-type cables from the outputs on the DTV receiver to DTV INPUT Y/Pb /Pr or Satellite / Box on the TV back panel. You may need to set the DTV Input Assignment, page 31, to Y/Pb/Pr. 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 component. AUDIO AUDIO L VCR CONTROL 3 3 3 PHONE JACK RF REMOTE Y L 4 4 White OUT TO TV DIGITAL AUDIO OUT CH 3 CH 4 RISK OF ELECTRICAL SHOCK DO NOT OPEN CAUTION Pr R R Red Pb VIDEO VIDEO S-VIDEO IN FROM ANT SATELLITE IN Figure 2.

Connecting the DTV receiver with component Video Connections. 4 See Appendix B, page 67, for component video signal compatibility information. For digital audio connections, see your DTV receiver and A/V receiver Owner's Guides. 20 Part II: Installation Connecting a DTV Receiver Note: The TV back panel and connections shown here are for reference only and may vary by model. (Figure 1) 1 DTV Receiver with RGB Video Connections Connect the outside antenna, cable, or satellite to ANT or SATELLITE IN on the DTV receiver (see your DTV receiver's owner's guide for instructions and cable compatibility).



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Connect the incoming terrestrial antenna or cable (not satellite) to ANT-A on the TV back panel (a coaxial splitter, available at most electronic supply stores, may be required to complete this installation). 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 1, page 20): DTV Receiver TV Back Panel 3 4 AUDIO RISK OF ELECTRICAL SHOCK DO NOT OPEN CAUTION 3 5 4 PHONE JACK RF REMOTE G L VCR CONTROL 8 OUT TO TV DIGITAL AUDIO OUT CH 3 CH 4 R H B V R 6 7 8 S-VIDEO IN FROM ANT SATELLITE IN 1 INPUT 2 D T V ( Y PbPr/ GBRH V ) 480 i / 480P / 1080 i TV back panel (Detailed View) D T V ( Y PbPr/ GBRH V ) 480 i / 480P / 1080 i 3 S-VIDEO Y G 4 V I D E O Pb B H 6 7 S-VIDEO 1 INPUT 2 Y G 5 Pr R V 2 H V AUDIO L E F T / ( MONO ) 8 8 White Pb B AUDIO R I G H T Red V I D E O Pr R AUDIO L E F T / ANT - A ( MONO ) 2 AUDIO - 2 Incoming Antenna, or Cable. R I G H T Connecting a DTV Receiver ANT - A Figure 1. Connecting the DTV receiver with RGB video connections. G (green) B (blue) 5 R (red) = = Y Pb = Pr See Appendix B, page 67, for RGB video signal compatibility information.

For digital audio connections, see your DTV receiver and A/V receiver Owner's Guides. 6 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) 7 = = H V 8 Connect the L (left) and R (right) audio cables from the DTV receiver and 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. You may need to setup the DTV (See Input Assignment, page 31) to RGB. 21 (Applicable for WS-55411, WS-65411 and WS-73411 models only) (Figure 1) MONITOR OUT 1 INPUT 2 D T V ( Y PbPr/ GBRH V ) 480 i / 480P / 1080 i Y G S-VIDEO Connecting the System 4 Home Theater IR Control Pb B COMPON E NT 4 80 i / 4 80P / 1080i 2 Y H Pb Note: The TV back panel and connections shown here are for reference only and may vary by model. V I D E O Pr R V Pr AUDIO L E F T / ( MONO ) AUDIO L E F T / ( MONO ) AUDIO R I G H T AUDIO R I G H T TV back panel (Detailed View) Connecting the System 4 Home Theater IR Control Connecting the System 4 Home Theater IR Control. 1 2 ANT - A LOO P OU T ANT - B IR EMITTER REPEATER IR EMITTER REPEATER Ferrite Core Connect the IR emitter to IR EMITTER REPEATER on the TV back panel. Place the IR emitter cable under or along the side of the A/V device. Place the IR lens directly in front of the A/V device infrared signal receiver. Infrared signal receivers are usually behind the front translucent panel of the receiver.

Place the unused transmitter in an out-of-the-way location. For permanent installation of the IR emitter cable, use the included adhesive tape to secure the bottom of the emitter to the anchoring object of your choice. 1 Other A/V Device A/V Receiver S AH S CH DIGITAL DIGITAL SURROUND SURROUND 3 4 Figure 1. Connecting the System 4 Home Theater IR Control. See page 57 for details on using the TV's IR emitter to control a Mitsubishi A/V receiver. 22 Part II: Installation Warning: Do not leave stationary 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 period of time or displaying the same stationary pattern frequently can leave subtle but permanent ghost images. To avoid this, mix your viewing pattern. 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, online 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: 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 23 IMPORTANT NOTES Setup Using Use of the Remote Control with Other A/V

Products ..

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26-27 Menu System.....  
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.....28 Menu Screens (Overview).  
. 29-30 Setup Menu....

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.....29 Memorize Channels ....  
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...31 Input Assignment.....

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.....31 Language ....  
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...32 Front Button Lock ...

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.....32 Clock Setting .

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....33 Captions Menu .....

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...35 Channel Edit Menu..

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.....37 SQV (Super Quick View™)...39 V-Chip Lock .

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.....40 Lock by Time..

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...42 V-Chip Hours.....

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.....42 Passcode..

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.....42 Advanced Features Menu.

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.....43 Timer ....

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....43 Convergence .

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.....45 Color Balance.

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...47 Audio Video Settings Menu....48 25 Use of the Remote Control with Other A/V Products To Program the Remote to Control Other Brands of Audio and Video Products: (Figures 1-5) 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. Point the remote control to the equipment and press the POWER button. 1 3 CABLE/DBS/DTV TV VCR DVD AUDIO POWER 2 If your satellite receiver code is not listed here, please see page 68 for a complete listing.



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Use of the Remote Control with Other A/V Products 4 Satellite brand Mitsubishi DTV - DBS Dishnetwork /EchoStar Hughes - DBS RCA - DBS Sony - DBS Toshiba - DBS Panasonic - DBS Satellite Receiver Codes Code to enter: 006 175 173 176 177 170 174 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. VCR POWER To reset to default code, enter 000 Figure 2.

Programming the remote to control your satellite receiver. 1 3 CABLE/DBS/DTV TV DVD AUDIO 2 If your cable box code is not listed here, please see page 68 for a complete listing. 1 3 CABLE/DBS/DTV TV VCR DVD AUDIO POWER 2 If your VCR code is not listed here, please see page 68 for a complete listing. Cable box brand General Instruments/ Jerrold Oak Pioneer Scientific Atlanta Zenith Cable Box Codes To reset to default code, enter 000 Code to enter: 111, 119, 120, 121, 122, 123, 124, 125, 126, 127 102, 137, 139 101, 116 111, 112, 113 100, 117 Figure 1. Programming the remote to control your cable box.

VCR brand Mitsubishi Hitachi JVC Phillips / Magnavox Panasonic RCA Sony Toshiba Code to enter: 001, 002 020, 043, 065 030, 054, 059 043, 044, 051 041, 042, 043 020, 053, 065, 079 048, 049, 050, 074, 075 021, VCR Codes To reset to default code, enter 000 Figure 3. Programming the remote to control your VCR. If you cannot turn the cable box ON by pressing POWER, try pressing CHANNEL or the number buttons. 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. 26 Part III: Setup Use of the Remote Control with Other A/V Products 1 3 CABLE/DBS/DTV TV VCR DVD AUDIO POWER 2 If your DVD code is not listed here, please see page 68 for a complete listing. DVD/LDP brand Mitsubishi (DVD) Mitsubishi (LDP) Panasonic Pioneer DVD (LDP) Sony Toshiba Zenith DVD/LDP Player Codes Code to enter: 003 016, 017 250 252 (016, 017) 254 253 259 To reset to default code, enter 000 Figure 4. Programming the remote to control your DVD/ LDP.

VCR POWER 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 Use of the Remote Control with Other A/V Products 1 3 CABLE/DBS/DTV TV DVD AUDIO 2 If your audio code is not listed here, please see page 68 for a complete listing. Audio brand Mitsubishi A/V receiver and/or CD player Kenwood Onkyo Pioneer Sony Yamaha Harman Teac A/V Receiver Codes Code to enter: 010, 011 200, 208 209, 214,240 205, 207 222 201, 202 215 210 To reset to default code, enter 000 Figure 5. Programming the remote to control your A/V receiver. Mitsubishi CD player 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. 27 The Menu System SETUP CAPTIONS Your TV has Mitsubishi's exclusive on-screen operating system, which provides on-screen information for menu choices and changes (Figure 1).

A picture (icon) will be highlighted when selected with the ADJUST arrows. When selected, the appropriate menu will appear or start an automatic function.

You may then make changes within the menu or access available sub-menus. A square button indicates that you may make changes to the menu screen.

CHANNEL EDIT V-CHIP LOCK ADVANCED FEATURES AUDIO/VIDEO SETTINGS ENTER for menu or ADJUST to select to start ENTER for menu or MENU to return change option MENU to return Figure 1.

MAIN menu: The first screen that appears when you press the MENU button from your remote. Menu System The system includes the following special features: The currently selected icon or button is highlighted with a rectangular yellow outline and the text color will be yellow. On-screen instructions provide complete menu choice information. Some on-screen menu options must be set before other options are available. For example, "Timer Menu" will only be possible if "Clock Time" and "Set Day" have been set. The following buttons on your remote control helps you to navigate within the system (Figure 2): 1 2 3 4 5 6 7 8 CABLE/DBS TV VCR DVD AUDIO 1 4 7 SQV 2 5 8 0 3 6 9 QV POWER SLEEP VIDEO AUDIO MUTE INPUT CHANNEL VOLUME 5 1 2 3 4 6 ENTER EXCH CANCEL ADJUST The HOME 8 7 MENU INFO 28 ADJUST or to select the menu item you want to change. ADJUST to move to the setting field. ADJUST or to change the settings. ADJUST to move back to the menu item. ENTER to enter into a menu, start an automatic function, or select a checkbox.

CANCEL to clear a setting, or stop an automatic function. MENU to move back one menu screen at a time. HOME to exit all menus and return to TV viewing.

V-CHIP FORMAT PIP INPUT PIP/POP PIP CH GUIDE REC STOP PAUSE REW/REV PLAY FF/FWD Figure 2. These buttons are used for navigation within the on-screen operating system. Part III: Setup Main Menu Screens (Overview) MAIN MENU SETUP menu Memorize Channels : Anti-A Air (Figure 1)

SETUP Menu Basic (initial) setup instructions and functions are available through the SETUP submenu screens. You can memorize channels, turn the TV input connections On or Off, set the time and day, select English or Spanish for the menus or screen display, and set the Front Button Lock. (Use the setup menu when you relocate the TV, experience a power loss or when accessories are added after initial setup).



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*INPUT ASSIGNMENT CLOCK Language (Idioma) Front Button Lock: : English : Off ENTER for menu or ADJUST to select to start ENTER for menu or MENU to return change option MENU to return Figure 1. SETUP menu MAIN MENU CAPTIONS menu : On if mute : Gray (Figure 2) CAPTIONS Menu Display broadcasted captions or text on the screen.*

*You can select the closed caption setting by choosing to display the background color as either black or translucent gray. Note: Mitsubishi recommends using the translucent gray background to prevent CRT aging and /or burn-in. Menu Screens (Overview) Closed Captions CC Background ENTER for menu or ADJUST to select to start or MENU to return change option MENU to return Figure 2. CAPTIONS menu MAIN MENU CHANNEL EDIT menu ANTENNA :*

*Ant-A (Figure 3) CHANNEL EDIT Menu Channel : 002 Memory Name : Deleted : N/A Use to customize the channel information for Ant-A and Ant-B. Manually add or delete channels from memory, name channels for Ant-A and Ant-B, or add your favorite channels to a SQV (Super Quick View™) list. SQV : N/A ENTER for menu or ADJUST to select to start ENTER to confirm or MENU to return change option CANCEL to cancel Figure 3. CHANNEL EDIT menu (ANTENNA) 29 Main Menu Screens (Overview) V-CHIP LOCK Menu (Figure 1) MAIN MENU V-CHIP LOCK menu V-Chip TV Rating FV-Fantasy Violence D-Sexual Dialog L-Adult Language S-Sexual Situations V-Violence Programs Not Rated Movie Rating V-CHIP HOURS/LOCK BY TIME : On : TV-PG : Allow : Block : Block : Block : Allow : PG The V-Chip Lock locks the entire TV based on a scheduled set time, or blocks programs based on rating signals sent by broadcasting system. ENTER for menu or ADJUST to select to start ENTER for menu or MENU to return change option MENU to return Figure 1. V-CHIP LOCK menu ADVANCED FEATURES Menu (Figure 2) MAIN MENU ADVANCED FEATURES menu TIMER CONVERGENCE Menu Screens (Overview) 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, and adjust the color balance. Video Mute : On Black Enhancement COLOR BALANCE : On ENTER for menu or ADJUST to select to start ENTER for menu or MENU to return change option MENU to return Figure 2.*

*ADVANCED FEATURES menu AUDIO/VIDEO SETTINGS Menu (Figure 3) MAIN MENU AUDIO/VIDEO SETTINGS menu 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 button resets all inputs at one time. AV Memory Reset TV Speaker (Internal) Audio Output (TV Volume Control) : Ant-A : On : Variable AUDIO SETTINGS VIDEO SETTINGS ENTER for menu or ADJUST to select to start ENTER for menu or MENU to return change option MENU to return Figure 3. AUDIO/VIDEO SETTINGS menu 30 Part III: Setup SETUP Menu: Memorize Channels/INPUT ASSIGNMENT MAIN MENU SETUP menu Memorize Channels : Ant-A Air (Figure 1) Memorize Channels INPUT ASSIGNMENT CLOCK This selection memorizes the channels your TV can receive and skips the unused or weak channels. Language (Idioma) Front Button Lock: : English : Off ENTER for menu or ADJUST to select to start ENTER for menu or MENU to return change option 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. Memorize Channels / INPUT ASSIGNMENT Figure 1. Memorize Channels MAIN MENU SETUP MENU MEMORIZE menu (Figure 2) : 002 MEMORIZE Menu Memorize Channels In Memory Now memorizing all the stations you can receive on Ant-A Air. Please stand by.*

*PIP You can 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. CANCEL to cancel memorization ENTER for menu or to start MENU to return Figure 2. MEMORIZE menu (Memorize Channels in memory) MAIN MENU SETUP MENU INPUT ASSIGNMENT menu Antenna-A Antenna-B DTV Input-1 Input-2 Input-3 Component-1 Component-2 : On : On : Y PbPr : VCRI : Input 2 : DVD : Component-1 : DBS (Figure 3) INPUT ASSIGNMENT Menu 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 the INPUT button on the remote control. Input choices are: Antenna-A or Antenna-B: On or Off. DTV: YPbPr, RGB, or Off. INPUT-1, INPUT-2, INPUT-3: Cycle through a list of preset names, or Off. COMPONENT-1 or COMPONENT-2: Cycle through a list of preset names, or Off.*

*ENTER for menu or ADJUST to select to start or MENU to return change option MENU to return Figure 3. INPUT ASSIGNMENT menu 31 SETUP Menu: Language / Front Button Lock (Figure 1) Language SETUP menu MAIN MENU Display the on-screen menus in either English or Spanish (Español). The first time your power On your TV, you were requested to select an on-screen menu language. When you change the selection to Español, all text will immediately switch to Spanish. Memorize Channels Ant-A Air INPUT ASSIGNMENT CLOCK Language (Idioma) Front Button Lock: : English : Off ENTER for menu or ADJUST to select to start ENTER for menu or MENU to return change option MENU to return Figure 1.*

*Language / Idioma Language / Front Button Lock (Figure 2) Front Button Lock SETUP menu MAIN MENU Front Button Lock lets you disable controls on the front panel to prevent young children from changing settings by accident. 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 8 seconds. If the TV is already on, a message will be displayed to confirm the release of the Front Button Lock. Memorize Channels Ant-A Air INPUT ASSIGNMENT CLOCK Language (Idioma) Front Button Lock: : English : Off ENTER for menu or ADJUST to select to start ENTER for menu or MENU to return change option MENU to return Figure 2.*

*Front Button Lock 32 Part III: Setup CLOCK Menu: Clock Setting / Tme Zone / D.S.T. MAIN MENU SETUP MENU CLOCK menu Clock Setting Time Zone Daylight Savings Time Clock Time : Auto : Eastern : Applies (Figure 1) Clock Setting (Auto) : N/A Set Day : N/A Setting the Clock Setting to Auto will 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 channels carrying this service.*



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ENTER for menu or ADJUST to select to start or MENU to return change option MENU to return Figure 1. Clock Setting (Auto) MAIN MENU SETUP MENU CLOCK menu Clock Setting : Auto Time Zone (Figure 2) Clock Setting / Time Zone / D.S.T. Time Zone Daylight Savings Time Clock Time : Eastern : Applies When Auto has been selected for the Clock Setting, you need to select the correct time zone (Atlantic, Eastern, Central, Mountain, Pacific, Alaska, or Hawaii) for your area.

: N/A Set Day : N/A ENTER for menu or ADJUST to select to start or MENU to return change option MENU to return Figure 2. Time Zone MAIN MENU SETUP MENU CLOCK menu Clock Setting Time Zone Daylight Savings Time Clock Time : N/A : Auto : Eastern : Applies (Figure 3) Daylight Savings Time When Auto has been selected for the Clock Setting, you need to select the Daylight Savings Time (DST) option that your state uses. Applies = uses DST 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). Set Day : N/A ENTER for menu or ADJUST to select to start or MENU to return change option MENU to return Figure 3. Daylight Savings Time 33 Clock Menu: Clock Time / Set Day (Figure 1) Clock Time CLOCK menu MAIN MENU SETUP MENU For the manual clock setting, select the current time, including AM or PM. Press or to slowly adjust the time. Press and hold or to quickly adjust the time. Clock Setting Time Zone Daylight Savings : Manual : N/A : N/A Clock Time : 12:00 AM Set Day : Sunday ENTER for menu or ADJUST to select to start or MENU to return change option MENU to return Figure 1. Clock Time Clock Time / Set Day (Figure 2) Set Day CLOCK menu Clock Setting Time Zone Daylight Savings Time Clock Time MAIN MENU SETUP MENU When Manual has been selected for the Clock Setting, you need to select the current day of the week. : Manual : N/A : N/A : 12:00 AM Set Day : Sunday ENTER for menu or ADJUST to select to start or MENU to return change option MENU to return Figure 2.

Set Day 34 Part III: Setup CAPTIONS Menu: Closed Captions MAIN MENU CAPTIONS menu : On if mute : Gray (Figure 1) CAPTIONS Menu Closed Captions CC Background ENTER for menu or ADJUST to select to start or MENU to return change option MENU to return Figure 1. CAPTIONS menu Broadcasters can send either Standard or Text closed captioning. 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. Within the CAPTIONS menu, you can 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. Closed Captions When Text closed captioning is selected, a large black or gray box will appear on your TV screen if no signal is broadcast. MAIN MENU CAPTIONS menu (Figure 2) : On if mute : Gray Closed Captions Closed Captions CC Background The TV can display one of the following: 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. ENTER for menu or ADJUST to select to start or MENU to return change option MENU to return Figure 2. Closed Captions 35 CAPTIONS Menu: CC Background (Figure 1) CC Background CAPTIONS menu MAIN MENU To make the closed captions easier to read, you can choose to display the background color as either black or translucent gray. Note: Mitsubishi recommends using the translucent gray background to prevent CRT aging and/or burn-in. Closed Captions CC Background : On if mute : Gray ENTER for menu or ADJUST to select to start or MENU to return change option MENU to return Figure 1. CAPTIONS menu CC Background 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. 36 Part III: Setup CHANNEL EDIT Menu: Antenna and Channel MAIN MENU CHANNEL EDIT menu Antenna : Ant-A Antenna (Figure 1) Channel : 002 Memory : Added 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 View™) list. Name : KCBS SQV : SQV1 Off ENTER for menu or ADJUST to select to start ENTER to confirm or MENU to return change option CANCEL to cancel Figure 1. Antenna MAIN MENU CHANNEL EDIT menu Antenna : Ant-A (Figure 2) Channel Antenna and Channel Channel : 002 Select the channel you want to add or delete from memory, name, or add to the SQV (Super Quick View™) list. Memory : Added Name : KCBS SQV : SQV1 Off ENTER for menu or ADJUST to select to start ENTER to confirm or MENU to return change option CANCEL to cancel Figure 2. Channel 37 CHANNEL EDIT Menu: Memory and Name (Figure 1) Memory MAIN MENU CHANNEL EDIT menu Antenna : Ant-A After all available channels have been memorized with Memorize Channels (page 31), weaker channels viewed with Ant-A or Ant-B can be added and unwanted channels can be deleted. Use the CHANNEL button on the remote control to view memorized channels. Channel : 002 Memory : Added Name : KCBS SQV : SQV1 Off ENTER for menu or ADJUST to select to start ENTER to confirm or MENU to return change option CANCEL to cancel Figure 1. Memory Memory and Name (Figure 2) Name Channels shown on Ant-A or Ant-B can be given names (up to four characters). After you enter a name, it will appear on the TV screen next to the channel number. 1 Select Ant-A or Ant-B.

2 Select the memorized channel you want to name. 3 Press ADJUST until you see the 4 Use ADJUST or to select letters A-Z, numbers 0-9, and/or symbols (!.&/'\*- and blank) for each character of the name you would like for the selected channel. Press MAIN MENU CHANNEL EDIT menu Antenna :Ant-A Channel :002 Memory :Added Name :KCBS underline highlighted in the Name field. SQV :SQV1 Off ENTER for menu or ADJUST to select to start ENTER to confirm or MENU to return change option CANCEL to cancel ENTER after choosing each letter and after the name is complete.

If you want to Figure 2. Name 38 change your selection while on the option field, use CANCEL to delete the current character.



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