



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for MITSUBISHI WD-60638. You'll find the answers to all your questions on the MITSUBISHI WD-60638 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual MITSUBISHI WD-60638**  
**User guide MITSUBISHI WD-60638**  
**Operating instructions MITSUBISHI WD-60638**  
**Instructions for use MITSUBISHI WD-60638**  
**Instruction manual MITSUBISHI WD-60638**



## HOME-THEATER TELEVISION

### MODELS

**638 Series**

**C10 Series**

### OWNER'S GUIDE

- For questions:
  - Visit our website at [www.mitsubishi-tv.com](http://www.mitsubishi-tv.com).
  - E-mail us at [MDEAservice@mdaa.com](mailto:MDEAservice@mdaa.com).
  - Call Consumer Relations at 800-332-2119 for operational or connection assistance.
- For information on **System Reset**, please see the back cover.
- To order replacement or additional remote controls or lamp cartridges, visit our website at [www.mitsuparts.com](http://www.mitsuparts.com) or call 800-553-7278.



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**Manual abstract:**

com. @@For information on System Reset, please see the back cover. @@@@NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product. MAINS DISCONNECTION: The mains plug is used as the disconnect device. The mains plug shall remain readily operable. Stand Requirement CAUTION: Use these Mitsubishi TV models only with the Mitsubishi stand models shown here. Other stands can result in instability and possibly cause injury.

TV Model WD-60638, WD-65638 WD-60C10, WD-65C10 WD-73638 WD-73C10 Stand Model MB-S60/65A MB-S73A Telephone: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. 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 cause harmful interference and would void the user's authority to operate this equipment. TV WEIGHT: This TV is heavy. Exercise extreme care when lifting or moving it. Lift or move the TV with a minimum of two adults. To prevent damage to the TV, avoid jarring or moving it while it is turned on. Always power off your TV, unplug the power cord, and disconnect all cables before moving it. WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. This apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus. WARNING: This product contains chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm. Note: Features and specifications described in this owner's guide are subject to change without notice.

For assistance call 1(800) 332-2119 3 Contents 1 Setup and Operation Getting Started . . . . .

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8 . 8 . 9 10 11 12 13 For Your Records Record the model number, serial number, and purchase date of your TV. The model and serial numbers are on the back of the TV. Refer to this page when requesting assistance with the TV. MODEL NUMBER SERIAL NUMBER PURCHASE DATE RETAILER NAME

LOCATION 2 TV Connections Connection Panel . . . . .

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.. 15 16 17 17 17 17 18 18 18 19 Custom cabinet installation must allow for proper air circulation around the television. 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. Internal Fans Internal cooling fans maintain proper operating temperatures inside the TV. It is normal to hear the fans when you first turn on the TV, during quiet scenes while viewing the TV, and for a short time after shutting off the TV. You may notice louder fan noise about 30 seconds after shutting off the TV. Lamp Replacement For lamp-replacement instructions, see Appendix A . To Order a Replacement Lamp Under Warranty Call (800) 553-7278. Please have model number, serial number, and TV purchase date available.

Important: All lamps replaced under warranty must be returned to Mitsubishi where they will be inspected to verify failure defects. To Purchase a Replacement Lamp After Warranty Visit our website at [www.mitsuparts.com](http://www.mitsuparts.com) or call (800) 553-7278. Order new lamp part number 915B441001. TV Software Do not attempt to update the software of this TV with software or USB drives not provided by or authorized by Mitsubishi Digital Electronics America, Inc. Nonauthorized software may damage the TV and will not be covered by the warranty. Children and TV Viewing The American Academy of Pediatrics discourages television viewing for children younger than two years of age. ..

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..... For assistance call 1(800) 332-2119 4 Important Safety Instructions 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 these instructions. G R O U N D C L A M P A N T E N N A D I S C H A R G E U N I T  
(N E C A R T I C L E 810-20) G R O U N D I N G C O N D U C T O R S (N E C A R T I C L E 810-21) G R O U N D C L A M P S P O W E R S E R V I C E G R O U N D I N G E  
L E C T R O D E S Y S T E M (N E C A R T 250, P A R T H) E X A M P L E O F A N T E N N A G R O U N D I N G A N T E N N A L E A D I N W I R E 2) Keep these  
instructions.



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3) Heed all warnings.

4) Follow all instructions. 5) Do not use this apparatus near water. 6) Clean only with dry cloth. 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

**ELECTRICAL SERVICE EQUIPMENT** 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. 11) Only use attachments/accessories specified by the manufacturer. 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. 13) Unplug this apparatus during lightning storms or when unused for long periods of time. 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped. **NEC -- NATIONAL ELECTRICAL CODE Outdoor Antenna Grounding** If an outside antenna or cable system is connected to the TV, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. **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. The following TV models are ENERGY STAR® qualified: WD-65638, WD-73638 WD-65C10, WD-73C10 Products that earn the ENERGY STAR prevent greenhouse gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy. For assistance call 1(800) 332-2119 1 Setup and Operation Before You Power on the TV 1. Review the important safety, installation, and operating information at the beginning of this book. Choose a location for your TV. · Allow at least four inches of space on all sides of the TV to help prevent overheating. Overheating may cause premature failure of the TV as well as shortened lamp life. Avoid locations where light may reflect off the screen. See the stand requirements on page 2. 5 Getting Started Package Contents Please take a moment to review the following list of items to ensure that you have received everything. Remote Control Two AA Batteries Owner's Guide AA AA · · 3. Install the batteries in the remote control. 4. Plug the TV into an AC power outlet. Quick Setup Guide First-Time Power-On 1. Connect your devices to the TV. See page 15 for suggestions. If using an antenna or direct cable service (no cable box), connect the incoming coaxial cable to the TV's ANT input. Refer to page 18. · Make note of which device is connected to each TV input. Power on the TV. Aim the emitter end of the remote at the TV and press POWER. Follow the on-screen instructions for basic setup: a. Select a menu language. b.

Select your time zone. c. Select Yes or No for Daylight Saving Time. d. Select the source connected to the TV's ANT input jack, either an over-the-air antenna or direct cable service without a box. Skip this step if nothing is connected. e. Perform a channel scan for channels available from the ANT input. f. Wait a few moments for the screen to clear.

· Product Registration Card 2. Installing the Remote Control Batteries 1. Remove the remote control's back cover by gently pressing on the tab and lifting off the cover. ting. Amber Amber Red Red/ Amber For assistance call 1(800) 332-2119 8 1.

Setup and Operation TV Inputs Selecting an Input to Watch Press the INPUT key to select a TV input to watch. Use the Setup > Input menu to rename, add, or remove inputs from the list. Tuning Channels from the Antenna Input After performing a channel scan, use these methods to tune to channels on the ANT input. Channels can be either from an over-the-air antenna or from direct cable service. · Enter the channel number using the number keys on the remote control and press ENTER.

· Include the sub-channel when tuning digital channels. For a two-part digital channel, such as 3-1, -- press 3 CANCEL 1 ENTER. · Press CH / to change channels one channel at a time. · Press and hold CH / to speed through channels. · Press LAST to return to the previous channel. Use the Fav (Favorites) feature to tune up to nine favorite channels. See page 10. Naming Assign helpful names to TV inputs. 1. Press MENU.

2. Go to the Setup > Input > Input Name menu. 3. In the inputs list, highlight the input to change and 4. press ENTER. Highlight a name in the name list. Picture Settings 1. To get the best picture under different viewing conditions, set the Picture Mode first before changing other video settings. See page 20 . a. Press VIDEO multiple times to select one of these Picture Modes: Name Brilliant Bright Natural Game When to Use Under bright light For most daytime viewing For most nighttime viewing With gaming consoles 5. Press ENTER to confirm 6. the name. Press EXIT to clear menus. b. Press ENTER to confirm your selection. 2. Wait a few seconds for the display to clear. Removing To remove unused inputs from the input list, Additional picture options are available in the Picture menu, page 20. 1.

Switch to an input other than the one you are 2. removing. Go to the name list for the input as described above. Highlight Skip this input and press ENTER. Using an External Sound System To switch from the internal TV speakers to an external sound system: 3. 4. Press EXIT to clear menus. 1. Press MENU. 2.

Display the Sound > TV Speaker option. 3. Press ENTER to switch between ON and OFF.. Additional audio controls are in the Sound menu, page 21. For assistance call 1(800) 332-2119 1. Setup and Operation 9 The FORMAT Key and Picture Shape Using the FORMAT Key Repeatedly press the FORMAT key to cycle through displays available for the current program. The TV will remember the format you last used on each input. Important Black bars at the edges of the picture are common in HD pictures. Black bars are not a defect of the TV.



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· Black bars are added by broadcasters to fill the 16:9 screen area while preserving the original aspect ratio of the picture. · Your cable box, satellite receiver, or DVD player may also be altering the broadcast picture. If your device offers output in native format, try using it with Mitsubishi's picture formats. Sample Uses of the FORMAT Key You can use the FORMAT key to reduce or eliminate black areas at the picture edges. Press Squarish 4:3 image is narrower than the 16:9 screen; unused areas at the sides are filled with black.

Standard mode stretches the picture sideways to fill the screen. Press Wide 2.35:1 anamorphic DVD image; unused areas at the top and bottom are filled with black (letterbox effect). Zoom mode. The picture fills the screen.

All four edges are cropped in this mode. TV Signals and Display Formats This is a 16:9 widescreen TV suitable for images available from HDTV and many DVDs. You can view older-style, squarish images (4:3 aspect ratio) using one of the display formats described on this page (press the FORMAT key to cycle through available display formats). All high-definition channels send widescreen (16:9) signals, but not all programming was created for the widescreen format. The broadcaster may stretch the image or add side bars to fill the widescreen area. TV Display Format Definitions Standard: The full-screen format used by HDTV signals. Use this format to display anamorphic DVDs with a 1.78:1 or 1.85:1 aspect ratio. Anamorphic DVDs with a 2.

35:1 aspect ratio are displayed correctly but with top and bottom black bars. Squarish (4:3) images are stretched evenly from side to side. Available for all signals. Expand: Enlarges the picture to fill the screen by cropping the top and bottom; useful for reducing the letter box top and bottom bars of non-anamorphic DVD images. Zoom: Enlarges the picture to fill the screen by cropping the sides, top, and bottom to eliminate black bars. · 480i/480p and SD 4:3 signals: Eliminates top and bottom bars on anamorphic DVDs with a 2.35:1 aspect ratio. · 720p, 1080i, SD 16:9, and HD signals: Eliminates bars added to squarish 4:3 images. Stretch: Stretches a squarish 4:3 image across the screen to display the entire image with less distortion than the Standard format.

Narrow: Displays narrow 4:3 images in their original shape.

Adds black side bars to fill the screen. Wide Expand: Enlarges the picture, cropping the image on both sides. Removes or reduces black side bars added to narrow images converted to 16:9 signals for digital broadcast. For assistance call 1(800) 332-2119 10 1. Setup and Operation TV Signals and Display Formats, continued Summary of Mitsubishi Display Formats Original Signal TV Display Standard Non-anamorphic or SD 4:3 Distorted.

Not recommended. Recommended for letterbox. See Note 1. Distorted. Not recommended.

See Note 1. Recommended for standard broadcasts. See Note 1. See Note 1 Anamorphic DVD Recommended FAV (Favorite Channels) Favorite Channels and the Remote Control The FAV key gives you quick access to favorite channels from the antenna input. You can store up to nine favorite channels. 1. Switch to the antenna input (press INPUT and select Antenna). 2. Tune to the channel. 3.

Press the FAV key. 4. With the desired channel highlighted, highlight Add and press ENTER. 1. While using the antenna input, press the FAV key. 2. In the Favorites menu, highlight the channel to remove. 3. Highlight Remove and press ENTER. Method 1 1.

While watching TV, press the FAV key. Tuning 2. Highlight the channel number in the list and press ENTER. Method 2 While watching TV, repeatedly press the FAV key to cycle through channels in the FAV list. Expand Zoom Recommended for anamorphic 2.

35:1 images. See Note 1. Distorted; not recommended. See Note 1. Stretch Narrow Distorted; not recommended.

See Note 1. Note 1: Available for 480i, 480p, and digital SD 4:3 signals only. Original Signal SD 16:9 or HD Digital 720p, 1080i, 1080p Signal Display Formats Wide Recommended to reExpand move side bars. Zoom Recommended to remove bars from the top, bottom, and sides. TV Display Formats. Press the FORMAT key to see the displays available for the current program. DVD Image Definitions Image information may be stated on the DVD case. Some DVDs support both of the formats described below. Anamorphic (or Enhanced for WideScreen TV) Indicates DVDs recorded to show widescreen images properly on 16:9 TV sets using the TV's Standard format mode (recommended). Non-Anamorphic (or 4:3, 1.

33:1, Letter Box, or Full Screen) Indicates DVDs recorded for viewing on squarish TV screens. They may be full screen (4:3 or 1.33:1) which crops movies to fit the narrow TV, or letter box, which adds black top and bottom bars. The Favorites Menu 1. Press MENU and go to Channels > Favorites. 2. Highlight the channel you want to add or remove. Tip: To jump to a channel, enter the channel number, including separator, and press ENTER. Example: 3 6 1 ENTER.

Press ENTER to add/remove a check.

You can select up to nine favorite channels. 3. 4. Highlight DONE and press ENTER to finish. For assistance call 1(800) 332-2119 Removing Adding Distorted; not recommended.

See Note 1. 1. Setup and Operation 11 Using the TV with a Personal Computer Connecting a Computer to the TV Use one of the connection methods listed below based on your computer's video output. Computer Video Connection Video Output Digital DVI Audio Connection 3. Power on the TV and computer. 4. Go to the TV's Setup > Input > Input Name menu 5. and assign the name PC. To switch the TV to the computer, press the INPUT key and select PC from the inputs list. If you are unable to hear audio from the computer, there may be an incompatibility in the computer's hardware, software, or internal settings. Consult a trained computer technician for advice. DVI-to-HDMI cable or Analog audio an HDMI cable with a cable with mini DVI-to-HDMI adapter plugs See "DVI Video Device," page 17. HDMI-to-HDMI cable No additional audio connection is required. page 17. Note: HDMI Computer Video Adjustments 1.

Working from the computer, change the resolution of the computer image. View the computer image on the TV and maximize the computer resolution while maintaining a suitable aspect ratio for the image. Perform TV video adjustments in the Setup > Picture menu. Press the FORMAT key repeatedly to find the picture format best suited to the image. See the chart on the next page showing how different computer resolutions can be displayed on the TV. IMPORTANT

This TV accepts digital computer video signals only. This TV is not compatible with VGA (analog) computer video. VGA PC MONITOR OUT 2. 3. 1. Connect the computer's digital signal output to one 2. of the TV's HDMI jacks. See the connection diagrams for the method suited to your equipment. Connect the computer's audio output using one of these options: · For digital DVI video signals, connect the analog audio output to the TV's DVI/PC AUDIO INPUT jack.



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· For HDMI signals, no additional audio connection is required.

· If your computer provides digital audio output (coaxial or optical), connect it directly to a digital A/V receiver and bypass the TV. Image Resolution Your Mitsubishi TV can display the resolutions shown in the chart on the next page from standard VGA (640 x 480) through 1920 x 1080 signals at a refresh rate of 60 Hz. In most cases, the computer will select the best resolution match to display on the TV. You can override this setting if you wish. Refer to your computer operating system's instructions for information on changing the screen resolution.

You may need to restart the computer for changes to take effect. Tip Set the computer's screen saver to display a screensaver pattern after several minutes of inactivity. This acts as a reminder that the TV is powered on and the lamp is in use. The lamp is in use whenever the TV is powered on, even if the screen appears dark. Distortion in Computer Images Computer images may show distortion when viewed on the TV, e.g., lines that should be straight may appear slightly curved. For assistance call 1(800) 332-2119 12 1. Setup and Operation Using the TV with a Personal Computer, continued Computer Display Formats Press the FORMAT key repeatedly to cycle through the displays available for your computer's video signal. Computer Signal Original Format VGA 640 X 480 SVGA 800 X 600 As Displayed on TV Screen 4X3 Standard 16 X 9 Standard Zoom Status Display Press the INFO key to see an abbreviated status display.

Press INFO again to see details. Not all information shown in the sample will be available for all programs and sources. 5 7 6 8 9 10 INFO Original Format XGA 1024 X 768 PC 720p 1280 X 720 WXGA 1360 X 768 Original Format PC 1080p 1920 X 1080 Standard Zoom 1 2 3 4 Basic Status Display 1. Channel number. Digital channel includes major and sub-channel numbers. 2. Digital channel name (if broadcast) 3. Program start time (if broadcast, digital source only) 4. Program name (if broadcast); digital source only Standard Reduce 5. Day and time (set clock in the Setup > Clock menu).

Detailed Status Display Press INFO a second time to see details. 6. Signal-strength indicator (digital signal, antenna only) 7. Signal type being received. See "Signal Definitions" on this page.

8. Program audio indicator (antenna source only) 9. Program description (if broadcast); digital source only. 10. V-Chip rating, closed-captions indicator, program signal type (if broadcast) Signal Definitions 480i: Standard-definition interlaced signals 480p: Progressive-scan enhanced-definition signals HD 1080i and HD 720p: High-definition 16:9 (widescreen) signals.

HD 1080p: High-definition signals from a PC or Blu-ray player, HDMI inputs only. For assistance call 1(800) 332-2119 1. Setup and Operation 13 3D Video To display 3D gaming or 3D cinema content, your Mitsubishi TV requires: · A compatible 3D source device outputting a 3D signal in checkerboard format, 1080p, 60-Hz; lower resolutions may be supported but will not fill the screen. · Active-shutter 3D glasses, DLP link type or IR emitter type with matching emitter. Watching 3D Video Note: Active 3D glasses are required. 1. Connect your 3D video device to one of the TV's HDMI inputs and power on the device. 2. Press INPUT. 3.

Highlight the 3D video input and press ENTER to 4. 5. 6. switch to it. Press MENU and select the Setup > 3D Mode menu. Highlight 3D Mode and press ENTER to select On. The On setting will be memorized for the current input when you exit this menu. If using DLP Link-type glasses, highlight DLP Link and press ENTER to select ON. Initial Setup 1. If your 3D glasses came with an emitter, connect the emitter to the 3D GLASSES EMITTER jack. Place the box in front of the TV where there is a clear path to the glasses. Notes: · If you require a Mitsubishi 3D adapter, refer to the connection instructions provided with the adapter. Please check our website, [www.mitsubishi-tv.com](http://www.mitsubishi-tv.com) for updates to 3D information and safety.

If your glasses are marked DLP Link, skip this step; no emitter is required with DLP Link technology. · ANT HDMI Y/ VIDEO DVI/PC AUDIO INPUT DIGITAL AUDIO OUTPUT INPUT 2 Pb Pr 3D GLASSES EMITTER HDMI 1 2 3 Y/ VIDEO R AUDIO L Pb Pr (480i / 480p / 720p / 1080i) INPUT 1 3D GLASSES EMITTER Use the Setup > 3D Mode menu to enable 3D video. 7. Press EXIT to close the menu. 8.

If the image does not appear correct (e.g., objects appear to be moving in instead of out), open the Setup > 3D Mode menu and highlight 3D Mode Glasses L-R. Press ENTER to change to Reverse. 2. Connect the 3D video device to the TV's HDMI input. To Watch Regular (non-3D) Video The 3D Mode setting is memorized for each input. When you want to watch non-3D video on the input selected above, open the Setup > 3D Mode menu and set 3D Mode to Off. Notice Concerning Format Compatibility In order to display 3D images. Mitsubishi 3D Ready DLP Home Cinema TVs require the use of a 3D source device coupled with the Mitsubishi 3D adapter or other source devices that support checkerboard display formats for display of 3D games, 3D broadcasts from terrestrial/cable/ satellite and 3D Blu-Ray disc content.

In all cases an emitter and matching 3D active shutter glasses or DLP Link active shutter glasses are required in order to view 3D content. For assistance call 1(800) 332-2119 14 1. Setup and Operation 3D Video, continued 3D Safety Requirements 3D Glasses are NOT designed as sunglasses or safety glasses and do not provide protection. 3D glasses should be worn only when viewing 3D material. · Do not wear the wireless glasses in any situations that require unimpaired visual perception. · Children under the age of 5 should not view 3D programming. Under normal conditions, 3D viewing is safe for your movies or games. Some people may experience discomfort, however. To minimize the potential for experiencing visual problems or any adverse symptoms: · Read and follow any and all safety warnings that accompany your 3D glasses or 3D source devices. · Maintain a distance of no less than 2 to 2.

5 times the screen height measurement away from the display. Viewing from too short a distance can strain your eyes. · Take regular breaks, at least 5 minutes after every hour of 3D viewing. If you experience any of the following symptoms, discontinue 3D viewing until the symptoms go away: · nausea, dizziness, or queasiness, · headache, or eyestrain, · blurry vision, · double vision that lasts longer than a few seconds, Do not engage in any potentially hazardous activity (for example, driving a vehicle) until your symptoms have completely gone away. If symptoms persist, discontinue use and do not resume 3D viewing without discussing your symptoms with a physician.

Do not use the glasses where loss of balance or limiting your field of vision may be dangerous to you.



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· Do not use near staircases, ledges or balconies. You may risk falling during or after use. Epilepsy WARNING! IF YOU OR ANY MEMBER OF YOUR FAMILY HAS A HISTORY OF EPILEPSY, CONSULT A PHYSICIAN BEFORE USING 3D VIDEO OR GAME PRODUCTS. A small percentage of the population may experience epileptic seizures when viewing certain types of TV images or video games that contain flashing patterns of light. The following people should consult a physician before viewing 3D Games or Video: · Anyone with a history of epilepsy, or who has a family member with a history of epilepsy · Anyone who has ever experienced epileptic seizures or sensory disturbances triggered by flashing light effects. WARNING! SOME LIGHT PATTERNS MAY INDUCE SEIZURES IN PERSONS WITH NO PRIOR HISTORY OF EPILEPSY. DISCONTINUE 3D VIEWING IF YOU EXPERIENCE ANY OF THE FOLLOWING SYMPTOMS: · Involuntary movements, eye or muscle twitching · Muscle cramps · Nausea, dizziness, or queasiness · Convulsions · Disorientation, confusion, or loss of awareness of your surroundings Do not engage in any potentially hazardous activity (for example, driving a vehicle) until your symptoms have completely gone away. Do not resume 3D viewing without discussing the symptoms with your physician. For assistance call 1(800) 332-2119 2 5 TV Connections DIGITAL AUDIO OUTPUT (page 18) 6 3D GLASSES EMITTER (page 13) 7 15 Connection Panel DVI/PC AUDIO INPUT (page 17) ANT HDMI Y/ VIDEO DVI/PC AUDIO INPUT DIGITAL AUDIO OUTPUT INPUT 2 Pb Pr 3D GLASSES EMITTER HDMI 1 2 3 Y/ VIDEO R AUDIO L Pb Pr (480i / 480p / 720p / 1080i) 1 ANT (page 18) 2 R&L Analog Audio Input 3 Y/VIDEO (composite video) 4 Y Pb Pr (component video) USB For use by your TV servicer INPUT 1 8 HDMI (page 17) 1. ANT (Antenna) Connect your main antenna or direct cable service (no cable box) to ANT. The ANT input can receive digital and analog over-the-air channels from a VHF/UHF antenna or non-scrambled digital/analog cable source. 6. DIGITAL AUDIO OUTPUT This output sends Dolby Digital or PCM digital audio to your digital A/V surround sound receiver. Incoming analog audio is converted by the TV to PCM digital audio.

If you have a digital A/V receiver, in most cases this is the only audio connection needed between the TV and your A/V receiver. Dolby Digital audio is available only from digital channels received on the antenna input. 2. Right and Left Analog Audio Inputs Use with INPUT 1/2 composite or component video inputs. 7. 3D GLASSES EMITTER Use this jack for the special IR emitter supplied with 3D glasses. The emitter will send a signal that synchronizes your 3D glasses with the screen display. See page 13 3. Y/VIDEO (Composite Video) Connect devices with composite video output to these inputs. Use the adjacent AUDIO R and L inputs if you wish to send audio to the TV.

4. Y Pb Pr (Component Video) Connect devices with component video outputs to this jack. Use the adjacent AUDIO R and L jacks if you wish to send audio to the TV. 8. HDMI Inputs (High-Definition Multimedia Interface) The HDMI inputs support uncompressed standard and high-definition digital video formats and PCM digital stereo audio.

Mitsubishi recommends you use high-speed HDMI cables when connecting newer HDMI source devices. High-speed cables bring you the full benefits of Deep Color. 5. DVI/PC AUDIO INPUT When connecting a DVI device to one of the TV's HDMI inputs, use this stereo mini-jack for analog audio. For assistance call 1(800) 332-2119 16 2.

TV Connections Connection Panel, continued The HDMI inputs can also accept digital DVI video signals. To connect a device's DVI output to the TV's HDMI input, use an HDMI-to-DVI adapter or cable plus an analog audio cable. Connect the analog audio cables to the DVI/PC AUDIO INPUT jacks on the TV to receive audio from your DVI device. Use the HDMI inputs to connect to CEA-861 HDMI compliant devices such as a high-definition receiver or DVD player. These inputs support 480i, 480p, 720p, 1080i, and 1080p video formats. The TV's HDMI inputs are compatible with many DVI-D and HDMI computer video signals. These inputs are HDCP (High-Bandwidth Digital Copy Protection) compliant. HDMI Cable Categories HDMI cables are available as standard and high-speed types. · High-Speed HDMI Cables. Newer DVD players, video games, and set-top boxes require high-speed cables, suitable for clock frequencies up to 340 MHz or data rates of up to 10.

2 gigabits per second. Use high-speed cables for high-speed 1080p HD signals carrying extended color encodings (i.e., 30 or more bits, also called Deep Color). High-speed cables are also suitable for standard HDTV signals. · Standard HDMI Cables. Standard HDMI cables may be unmarked. They are suitable for standard HDTV 720p, 1080i, and 1080p signals with 8-bit color depth. Use standard HDMI cables for clock frequencies up to 74.25 MHz or data rates of up to 2.

23 gigabits per second. Connection Types and Audio/Video Quality Connection Types Use the connection types available on your input devices that will give the best video quality. For example, choose HDMI over component video; choose component video over composite video. Surround Sound For best surround sound audio quality, route audiocarrying cables from the source device directly to your A/V receiver or sound system. Note Accessory items such as cables, adapters, splitters, or combiners required for TV connections are not supplied with the TV.

These items are available at most electronics stores. Picture Quality For best picture quality, route signals directly from the input device to the TV whenever possible. VIDEO QUALITY AUDIO QUALITY BEST HDMI HDMI-to-DVI GOOD Component Video Composite Video BEST HDMI Digital Audio GOOD L/R Analog Audio Stereo Mini-Plug For assistance call 1(800) 332-2119 2. TV Connections 17 HDMI Device Mitsubishi recommends using high-speed HDMI cables to connect newer devices incorporating HDMI technology. ANT Y Pb Pr Component Video Device Required: · RCA-type component video cables · Left/right analog audio cables HDMI Y/ VIDEO DVI/PC AUDIO INPUT DIGITAL AUDIO OUTPUT INPUT 2 Pb Pr 3D GLASSES EMITTER HDMI 1 2 3 ANT HDMI Y/ VIDEO DVI/PC AUDIO INPUT DIGITAL AUDIO OUTPUT INPUT 1 INPUT 2 Pb Pr Y/ VIDEO R AUDIO L Pb Pr (480i / 480p / 720p / 1080i) 1080 3D GLASSES EMITTER HDMI Y/ VIDEO R AUDIO L Pb Pr (480i / 480p / 720p / 1080i) TV main panel TV R AUDIO L INPUT 1 Y/ VIDEO Pb Pr HDMI-to-HDMI cable Any HDMI device Audio cables Incoming from cable service or satellite dish Component video cables IMPORTANT HDMI and Audio Signals Digital Surround Sound: The TV's HDMI inputs can receive digital stereo audio signals only.

To hear digital surround sound from an HDMI device, connect the device's HDMI or digital audio output directly to your A/V receiver.



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See the Owner's Guides for those devices for instructions. L R AUDIO Y Pb Pr CABLE IN or SATELLITE IN Component video device DVI Video Device Required: · DVI-to-HDMI cable or DVI/HDMI adapter and HDMI cable · Analog audio cable with stereo mini-plugs ANT Composite Video Device Required: · Composite video cable (usually yellow) · Left/right analog audio cables INPUT 2 INPUT 1 HDMI Y/ VIDEO DVI/PC AUDIO INPUT DIGITAL AUDIO OUTPUT INPUT 2 Pb Pr Y/ VIDEO R AUDIO L DVI/PC AUDIO INPUT 3D GLASSES EMITTER HDMI 1 2 3 Y/ VIDEO DVI/PC AUDIO INPUT DIGITAL AUDIO OUTPUT Pb Pr Pb Pr (480i / 480p / 720p / 1080i) R AUDIO L INPUT 1 3D GLASSES EMITTER Y/ VIDEO Pb Pr (480i / 480p / 720p / 1080i) TV panel Y/ VIDEO TV R AUDIO L Audio cable AUDIO OUT DVI-to-HDMI cable L R AUDIO OUT Audio cables Composite video cable DVI OUT Digital DVI device COMPOSITE VIDEO OUT VCR or other device with composite video output For assistance call 1(800) 332-2119 18 2. TV Connections Antenna or Cable TV Service Connect the incoming cable to the TV's ANT input. Antenna Direct cable (no cable box) or A/V Receiver with Coaxial Input This connection sends audio from the TV to an external sound system. You must use this connection if you want to send audio to a sound system from · TV broadcasts received on the ANT input · Devices connected directly to the TV Note: On rare occasions, an HDMI signal may be copy-restricted and cannot be output from the TV as a digital signal. or ANT Cable TV service IN OUT Older cable box This type of connection is not recommended. Other connection types provide better quality audio and video. TV DIGITAL AUDIO OUTPUT INPUT 2 HDMI Pb Pr Y/ VIDEO DVI/PC AUDIO INPUT DIGITAL AUDIO OUTPUT 3D GLASSES EMITTER HDMI Y/ VIDEO R AUDIO L Pb Pr (480i / 480p / 720p / 1080i) ANT TV ANT HDMI Y/ VIDEO DVI/PC AUDIO INPUT DIGITAL AUDIO OUTPUT INPUT 1 INPUT 2 Pb Pr 3D GLASSES EMITTER HDMI 1 2 3 Y/ VIDEO R AUDIO L Pb Pr (480i / 480p / 720p / 1080i) Digital coaxial cable INPUT 1 OPTICAL INPUT COAXIAL INPUT A/V receiver back panel INPUT 2 VCR or DVD Recorder to an Antenna or Wall Outlet Cable Required:

1. Video cables 1a.

Component video cables (red/blue/ green) or 1b. Composite video cable (usually yellow) 2. Left/right analog audio cables. 3. Two-way RF splitter 4. Two coaxial cables Note: If your recording device has an analog-only tuner, you must use a digital converter box to enable recording of digital broadcasts. ANT HDMI Y/ VIDEO DVI/PC AUDIO INPUT DIGITAL AUDIO OUTPUT Pb Pr 3D GLASSES EMITTER HDMI Y/ VIDEO R AUDIO L Pb Pr (480i / 480p / 720p / 1080i) ANT TV INPUT 1 Y/ VIDEO Pb Pr Composite video cable 4. 2. 1b. or 1a.

Incoming cable 4. 3. RF Splitter DVD Recorder or VCR ANTENNA IN L R AUDIO OUT COMPOSITE VIDEO OUT COMPONENT VIDEO OUT For assistance call 1(800) 332-2119 2. TV Connections 19 HDMI A/V Receiver with HDMI Output Required: One HDMI-to-HDMI cable This option allows you to view content from devices connected to an A/V receiver. The A/V receiver can send audio and video to the TV over a single HDMI cable. You can use an HDMI connection as described here in addition to an audio connection from the TV's audio output. The optional audio connection allows you to hear, through the A/V receiver, devices connected to the TV only, e.g., an antenna on the ANT input. ANT DVI/PC AUDIO INPUT DIGITAL AUDIO OUTPUT Y/ VIDEO R AUDIO L Pb Pr (480i / 480p / 720p / 1080i) INPUT 1 DIGITAL AUDIO OUTPUT INPUT 2 Y/ VIDEO Pb Pr 3D GLASSES EMITTER HDMI 1 2 3 Optional digital audio connection TV HDMI cable A/V receiver with HDMI output DIGITAL AUDIO IN HDMI OUT Any connection types High-definition DVD player Cable box VCR DVD player For assistance call 1(800) 332-2119 20 3 · TV Menus Press MENU on the remote control to open the main menu.

· Press ENTER or to see sub-menus. · Press MENU or to back up one menu level. Press EXIT to close all menus. Main menu Picture Picture Settings Picture settings are saved for the current input only. Using the Picture Settings Menu 1. Highlight the item you want to change and press ENTER to display an adjustable slider or a list of settings. 2. Make changes, then press ENTER to return to this menu. 3. When done, highlight Done and press ENTER.

To return to the default settings, highlight Reset and press ENTER. Picture Mode Set the Picture Mode before changing other video settings, Use Picture Modes to get the best image under different viewing conditions. Mode Brilliant Bright Natural Game Conditions Bright light Most daytime viewing Most nighttime viewing Optimizes picture and video processing for game consoles. Sharpness Adjusts picture detail and clarity. Video Noise Reduces minor noise (graininess) in the picture. Color Temperature High gives a white a cool (blue) cast. Low gives white a warm (amber) cast. Brightness Adjusts overall picture brightness. Contrast In most home lighting situations, medium contrast looks best. Color Adjusts overall color intensity from monochromatic to fully saturated.

Tint Adjusts the red-to-green ratio. Film Mode 480i and 1080i signals only. Press ENTER to turn on or off. When active, the TV applies film-decoding correction to movies filmed at 24 frames per second. Try turning it off if images show many jagged edges.

Reset Picture Returns to default settings, current input only. For assistance call 1(800) 332-2119 3. TV Menus 21 Sound Setup Sound menu Setup menu Audio Settings Audio settings are saved for the current input only. Input Change input name assignments or remove inputs from the input list. See page 8.

Closed Captions The TV can decode captions from the antenna input (digital and analog channels) and from the composite video jacks (originally analog content only). Services Using the Audio Settings menu 1. Highlight the slider you want to change and press to make adjustments. 2. Press ENTER when done. Off/On/On if Mute Select On if Mute to display closedcaption signal Caption 1 (digital) or CCI (analog) when audio from the TV speakers is muted. · Digital Captions CC ICC 4. Standard closed-caption signals Text 1Text 4. Text-service signals Level Sound Smooths and levels sound volume across source and channel changes. Press ENTER to turn on or off.

Analog Captions Caption 1Caption 6: Caption signals sent by the broadcaster. Analog Listen To Available only for analog channels from the antenna input. Mono Stereo SAP Reduces background noise. Use when receiving a weak stereo audio signal. The TV plays stereo broadcasts in stereo and mono broadcasts in mono.



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Second Audio Program. Selects an additional monaural sound track (if available). Digital Appearance · A white font on a black translucent background makes an easy-to-read combination. · Always use contrasting colors for captions and background. Language Select the default language track for a digital program from the antenna input (limited to languages available).

TV Speaker Switch TV speakers off when listening to sound through an external audio system. Highlight TV Speaker and press ENTER to switch TV speakers on or off. Settings for digital closed captions 1. Highlight the item you want to change and press ENTER to display a list of settings. Reset Audio Returns to default settings, current input only.

2. Press to make a selection. 3. Press ENTER to return to the menu. 4.

Highlight Done and press ENTER. For assistance call 1(800) 332-2119 2 3. TV Menus Setup, continued Screen Saver When on, displays a randomly moving Mitsubishi logo after one minute without activity or a video signal. The logo reminds you that the TV is still on. Press ENTER to choose either On or Off.

Clock Set the clock if you want to · Use the TV's auto-on timer.) · Display current time in the on-screen status. If Daylight Saving Time is observed in your area, check or uncheck the box when the time change occurs. Timer The Timer tells the TV to power on automatically at a time you set. Use this menu to set a day, time, input, and channel for the Timer.

If the TV is already on at the set time, the TV will automatically change to the designated channel or input. · The TV clock must be set before you can use the Timer feature. · As a reminder that the TV Timer is set, the STATUS indicator blinks slowly while the TV is powered off. 1. In the Setup > Clock menu, highlight the item you 2. 3. Highlight the correct setting in the list. For the time and date, use to change and to move. You can also enter digits for the time. want to change.

Press ENTER for adjustment mode. 1. Highlight the item you want to change and press 2. 3. 4.

ENTER to display a list of settings. to make a selection. Press Press ENTER to return to the menu. Highlight Done and press ENTER. 4.

Press ENTER to confirm your entry and return to the 5. Clock menu. Highlight Done and press ENTER. 3D Mode See page 13 for use of this menu. Menu Language Highlight either English or Spanish and press ENTER to confirm your selection. RESET ALL Sets all user-defined settings to the factory defaults and runs the initial guided setup. To prevent accidental use of RESET ALL, set a pass code (PIN) in the Locks menu. See page 24. For assistance call 1(800) 332-2119 3. TV Menus 23 Channels Use the TV's channel menus to: · Save a list of favorite channels (see page 10).

· Define the source for the antenna input · Perform a channel scan · Limit CH /CH tuning to only the channels you want · Selectively scan for new channels · Add a single channel by RF channel number Changing the Channel Source Highlight the source connected to the TV's antenna input. · Air if you have an over-the-air antenna · Cable if you have direct cable service without a box. Press ENTER to confirm your selection. Favorites See page 10 for use of the Favorites menu. Editing the Channel List · · · Use the Channel Edit menu so the TV tunes only to the selected channels when using the CH / key. Channels marked with a check are in memory. Press to move through channel numbers one at a time. To add or delete a channel from memory, highlight the channel number and press ENTER to remove the check. To jump to a channel, enter the channel number, including separator, and press ENTER. For example, to jump to 36-1: 3 6 I ENTER.

Use the Mark All or Unmark All options if working with many channel numbers. Scanning Channels Perform a channel scan after · Initializing the TV · Changing the source (switching between an over-the-air antenna and direct cable service) · Repositioning the antenna · Transporting the TV to a different area The channel scan will erase all custom channel settings (channel locks, favorite channels, channel-list edits). Note: Additive Scan must be OFF to enable a full channel scan. · · Enter the channel number to jump quickly to a channel. Checked channels can be tuned with the CH / key.

For assistance call 1(800) 332-2119 2 4 3. TV Menus Channels, continued Additive Scan The additive scan adds only new channels. Unlike the full channel scan, custom channel settings are preserved. Locks PIN You will be prompted to enter a 4-digit personal identification number (PIN) when you · Select Locks on the main menu. · Try to watch a blocked program · Tune to a locked channel Enter your PIN to temporarily unlock the TV and watch the blocked program or channel.

Power the TV off and then back on to re-activate channel locks. 1. Highlight Additive Scan and press ENTER to select 2. either ON or OFF. Highlight Scan Channels and press ENTER to start the additive scan. Adding a Channel You can manually add a new channel using the Add Channel menu This menu requires you to enter the RF channel number. The RF channel number is available from: · www.antennaweb.org · The broadcaster · Your cable-service provider Enter the RF channel number using keys on the remote control. Ratings Lock Rating locks restricts access using ratings sent by broadcasters.

There are separate rating systems for movies and television programs. The TV comes from the factory with the rating locks turned off. You must turn on blocking to activate rating restrictions. TV Ratings Highlight the rating level you wish to change and press ENTER to block/unblock. Apply supplemental content blocking to the age-based ratings by using the TV content categories FV, D, L, S, V. TV Ratings menu For assistance call 1(800) 332-2119 3. TV Menus 25 Locks, continued TV Program Ratings TV-Y TV Age-Based Ratings TV-Y7 TV-G TV-PG Youth. For children under 7. Youth 7 and older. General Audience.

For the entire family. Parental Guidance. Parental Guidance recommended; may not be suitable for some children. Adolescent 14 and older. Not recommended for children under 14.

Mature Audience. For adults only. Fantasy Violence. Applies to TV-Y7 only. Sexual Dialog.

Applies in differing degrees to TV-PG and TV-14. Adult Language. Applies in differing degrees to TV-PG, TV-14, and TV-MA. Sexual Situations. Applies in differing degrees to TV-PG, TV-14, and TV-MA. Violence (graphic or realistic). Applies in differing degrees to TV-PG, TV-14, and TV-MA. Movie Ratings menu · · Important Notes on Rating Locks Rating locks apply only to channels and signals received on the ANT and composite VIDEO jacks. When viewing a cable box, satellite receiver, or other device connected to the component Y Pb Pr or HDMI inputs, check the device's owner's guide for parental locks.



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Movie Ratings Highlight the rating level you wish to change and press ENTER to block/unblock.

TV-14 TV-MA FV TV Content Categories D L S V Block Unrated Shows Movie Ratings G PG General Audience. Designed for the entire family. Parental Guidance. Parental Guidance recommended; may not be suitable for some children. Parental Guidance, 13 and Older. Not recommended for children under 13. Restricted. Restricted in theaters to 17 years old and older unless accompanied by an adult. No Children 17 or Under. Restricted in theaters to 18 years old and older.

Adult. Designed for and restricted in theaters to adult audiences only. No MPAA rating assigned Highlight Block Unrated Shows and press ENTER to turn blocking either on or off. When on, blocks programs that are not rated, such as news, sports, weather, emergency bulletins, or movies prior to or without MPAA Ratings. Use care when blocking programming that is not rated.

PG-13 R NC-17 X Not Rated For assistance call 1(800) 332-2119 26 3. TV Menus Locks, continued Channel Locks Block access to the channels you specify. Highlight the control box next to the channel number and press ENTER to lock or unlock the channel. Use the Lock All and Unlock All options if working with many channel numbers. Control Panel Lock Use this lock if small children are present who may try to press the buttons.

Highlight Control Panel Lock and press ENTER to lock/unlock the TV's control panel. To unlock the panel without the remote control, unplug the TV from AC power for a few moments. Change PIN Use the remote control's number keys to set a new PIN. RESET LOCKS Use this option to clear all custom lock settings and return to the TV's default lock settings. If you have forgotten your PIN, see the reset section in Appendix B. For assistance call 1(800) 332-2119 Appendices 27 Appendix A: TV Care Lamp-Cartridge Replacement CAUTION: If the television is on, press POWER to turn it off. Unplug the television and allow it to cool for at least one hour before attempting to replace the lamp cartridge. Lamp The light source for this television is a lamp, which is part of a lamp cartridge assembly. The life of the lamp can vary, based on the lamp itself, the air temperature around the TV while it is operating, the selected lamp mode, and your viewing patterns. Warmer air or poor ventilation shorten the lamp life, as does turning the television on and off frequently.

CAUTION BURN DANGER! HOT SURFACES INSIDE! Touch lamp cartridge handle only. Do not touch lamp or lamp cartridge housing. Keep lamp cartridge horizontal during removal. Do not tilt as glass may come out and cause injury. Replace lamp cartridge only with the same part number 915B441001. Mitsubishi warrants the lamp for one (1) year from the date of original TV purchase at retail. Ordering a New Lamp To Receive a Replacement Lamp Under Warranty Visit our website at [www.mitsuparts.com](http://www.mitsuparts.com). Call (800) 553-7278.

Please have model number, serial number, and TV purchase date available. Important: All lamps replaced under warranty must be returned to Mitsubishi where they will be inspected to verify failure defects. WARNING THE ACCESS PANEL IS PROVIDED WITH AN INTERLOCK TO REDUCE THE RISK OF EXCESSIVE ULTRAVIOLET RADIATION. DO NOT DEFEAT ITS PURPOSE OR ATTEMPT TO SERVICE WITHOUT REMOVING PANEL COMPLETELY.

To Purchase a Replacement Lamp After Warranty Visit our website at [www.mitsuparts.com](http://www.mitsuparts.com) or call (800) 553-7278. Order the following: Lamp Part Number 915B441001 Lamp-Substitution Alert MDEA recommends that you use only

genuine Replacement Lamp Assemblies purchased directly from Mitsubishi or a Mitsubishi Authorized Dealer or Mitsubishi Authorized Service Center. MDEA advises that replacement lamps obtained separately from the Lamp Cartridge and/or Lamp Assemblies obtained from unauthorized sellers may be incorrect for your television, may not fit or perform properly and may even damage your television. MDEA can not be responsible for the performance, reliability or safety of any replacement lamps that are obtained from unauthorized sources.

WARNING . . . . . Do not remove the lamp cartridge immediately after turning off the television. You may get burned because the lamp is very hot. Allow the television to cool for at least one hour before replacing the lamp cartridge. Do not remove the lamp cartridge except when replacing it. Careless treatment can result in injury or fire. Do not touch the lamp glass element. It may be very hot and break, causing injuries or burns. Be sure not to insert any metal or flammable object into the lamp cartridge opening, as it may cause fire or electrical shock. If a foreign object is inserted into the opening, unplug the AC cord of the TV and contact your dealer for service. Install the lamp cartridge securely.

Failure to do so may cause a fire. Do not touch the lamp glass elements. Oils from your fingers may cause premature lamp failure. Hg = MERCURY THE LAMP INSIDE THIS PRODUCT CONTAINS MERCURY AND MUST BE RECYCLED OR DISPOSED OF ACCORDING TO LOCAL, STATE OR FEDERAL LAWS. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance at [www.eiae.org](http://www.eiae.org) For assistance call 1(800) 332-2119 28 Appendices Appendix A: TV Care, continued Lamp-Cartridge Replacement Removing the Old Lamp Cartridge 1. Turn off TV power and unplug the TV. Allow the 2. lamp to cool for at least one hour before proceeding.

After the lamp has cooled, remove the cover of the lamp compartment, located on the back of the TV. Refer to figures 1 and 2. Use a #2 (medium) Phillips screwdriver to loosen the screw securing the cover. Keep the screw and cover for re-installation With a medium Phillips screwdriver, loosen the two screws securing the lamp cartridge until they disengage from the mating threads. These are captive screws and cannot be separated from the lamp cartridge. Fully open the bag supplied with the replacement lamp and set the opened bag aside. Gently grasp the handle of the lamp cartridge and pull the old cartridge straight out. See figure 3. CAUTION: Do not tilt or rotate the cartridge, as small glass fragments may fall out. Without tilting or putting down the lamp cartridge, insert it into the opened bag.

Close the bag while being careful not to let any glass particles fall out. Figure 1 Figure 2 3. 4. 5. Figure 3 Use only replacement lamp part number 915B441001. 6. Installing the New Lamp Cartridge 1. Do not touch the glass parts of the new lamp cartridge. Insert the new cartridge into the TV in the same orientation as the old cartridge. Push on the cartridge housing until it is fully seated.

2. Gently tighten the screws with the screwdriver. AVOID OVERTIGHTENING! 3. Replace the plastic cover and retaining screws. 4. WASH YOUR HANDS THOROUGHLY, AS THIS LAMP CONTAINS MERCURY. Disposal of the Old Lamp Cartridge Lamp under warranty: All lamps replaced under warranty must be returned to Mitsubishi.



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Use the return shipping label provided and send to Mitsubishi Digital Electronics, America, 625 Braselton Parkway, Suite 200, Braselton, GA 30517. **IMPORTANT:** Lamps found without defects will be returned and charged back to the sender. Lamp no longer under warranty: Contact your local authorities or the Electronic Industries Alliance at [www.eiae.org](http://www.eiae.org) for lamp-disposal or recycling instructions. Do not dispose of the old lamp with common trash. For assistance call 1(800) 332-2119

Appendices 29 Appendix A: TV Care, continued Cleaning Recommendations Normally, light dusting with a dry, non-scratching duster will keep your TV clean. If cleaning beyond this is needed, please use the following guidelines: First, turn off the TV and unplug the power cord from the power outlet.

Exterior Occasionally clean dust and debris build-up from the air-intake grilles on the back and sides of the TV. Clean using a vacuum cleaner with a brush attachment. Top and Sides of the TV · Gently wipe down your TV with a soft, non-abrasive cloth such as cotton flannel, microfiber, or a clean cloth diaper, lightly moistened with water. Dry with a second dry, soft, non-abrasive cloth. · For oily dirt, add a few drops of mild liquid detergent, such as dishwashing detergent, to the water used to moisten the cloth.

Rinse with a second cloth moistened only with water. Dry with a third dry, soft, non-abrasive cloth. Screen · Follow the instructions for the top and sides, wiping gently in an up and down motion. · Clean the entire screen evenly, not just sections of the screen. · Do not allow liquid to drip down the screen, as some liquid may enter the TV through the gap between the screen and screen frame. · You may purchase Mitsubishi Screen Cleaner, part number CLEANER-VSS, by calling (800) 553-7278. General Cleaning Precautions · · · DO NOT allow liquid to enter the TV through the ventilation slots or any crevice. DO NOT use any strong or abrasive cleaners, as these can scratch the surfaces. DO NOT use any cleaners containing ammonia, bleach, alcohol, benzene, or thinners, as these can dull the surfaces. DO NOT spray liquids or cleaners directly on the TV's surfaces.

DO NOT scrub or rub the TV harshly. Wipe it gently. Care of the Remote Control Remote Control Tips · · · · · For longer life, use alkaline batteries. Do not mix old and new batteries. Be within 20 feet of the equipment. Do not press two or more keys at the same time unless instructed to do so. Do not allow the unit to get wet or become heated. Keep the unit out of direct sunlight. Avoid dropping on hard surfaces. Do not use harsh chemicals to clean.

Use only a soft, lightly moistened cloth. Resetting the Remote Control If TV mode is selected and the TV does not respond properly, reset the remote control. 1. Press and hold POWER for several seconds until the mode indicator blinks twice and goes off. 2. Release the POWER key. 3. Enter code 0 0 0 0 0 and the POWER key will blink twice when you finish entering the code. When entering the code, pause for a moment between each key press to ensure it is recognized. Low-Battery Indicator If you press a key and the mode indicator blinks five times, replace the remote control's batteries.

· For assistance call 1(800) 332-2119 30 Appendices Appendix B: Troubleshooting TV Reset Comparison Guide You can resolve many common TV problems using the reset functions described in the following table. **IMPORTANT** Before you change sound or picture settings: If picture or sound settings seem wrong for a broadcast channel (a channel from the ANT input, a cable box, Reset Name Format When to Use If the picture shape seems incorrect, use the FORMAT key to change the picture shape. How to Use Press FORMAT to cycle through the available picture shapes for the signal. or satellite receiver), first check other channels from the same input before changing settings. If most other channels from the same input seem correct, there is likely a problem with the broadcast rather than with the TV. Use care in this case, as changes you make to fix problems on individual channels also affect all other channels on the same input. Resulting Action The last-used format for a signal type will be recalled on the input. Note: Also check the aspect ratio feature on your cable box, satellite receiver, or other device, as this may be altering the picture. All picture or sound settings for the individual input are reset. Picture and Sound Resets (for the single current input) When audio and/ 1.

@@incorrect, use the reset 2. Press ENTER to reset. option to return the input to the original factory settings. To erase and re-memorize channels on the antenna input. Use after moving the TV to a new area or repositioning the antenna. 1. Press MENU and go to Channels > Antenna Source. 2. Highlight the reception mode, either Cable or Air, and press ENTER. 3.

Go to Channels > Scan Channels and start the channel scan. Be sure Additive Scan is set to OFF. @@@@Allows you to view a locked channel or program. @@@@For questions: Call Consumer Relations at 800-332-2119. @@@@Resulting Action The TV will turn off and power on.

@@@@@2. A fan is running even while the TV is powered off. The TV remote control does not work. Remarks The room is too warm. @@@@Be no more than 20 feet from the TV when using the remote control. Reset the remote control. See "Care of the Remote Control," page 29. 3. @@POWER key blinks five times. @@@@You cannot access a channel. · · Unplug the AC power cord for 10 seconds. @@Make sure the selected device is turned on. @@@@Be sure the channel you want to view is in memory. @@Make sure the channel is not locked in the Channel Locks menu. @@The virtual channel will then be automatically added to memory.

See "Adding a Channel," page 24 for more on RF channels. You may be trying to tune to an analog channel that is no longer broadcasting. Open the Locks menu and: · Verify that the ratings locks are active. · Rating restrictions apply only to content on the antenna input. For assistance call 1(800) 332-2119 32 Appendices Appendix B: Troubleshooting, continued TV Power On/Off Symptom 1. 2. TV takes an excessively long time to power on. You cannot program the TV to turn on automatically (Timer function) TV turned itself off. Remarks When powered on, the TV needs time to boot up, just as a computer does. Also, the TV's lamp requires a few moments to heat up to full brightness.

· · The TV may be locked. The clock may not be set. 3. Green light on the front panel is blinking · Momentary power fluctuation caused the TV to turn off to prevent damage. Wait for the green light to stop flashing and turn the TV on again. · If the TV does not stay on, press the POWER button on the control panel for at least eight seconds to perform System Reset.



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