

3D DLP®HOME-CINEMA TELEVISION

MODELS

740 Series 840 Series WD-82CB1

SUPPLEMENTAL OWNER'S GUIDE

- For questions:
 - Visit our website at www.mitsubishi-tv.com.
 - E-mail us at TVsupport@mevsa.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 lamps, visit our website at www.mitsuparts.com or call 800-553-7278.
- MEVSA recommends that you use only genuine Replacement Lamp Assemblies purchased directly from
 Mitsubishi or a Mitsubishi Authorized Dealer or a Mitsubishi Authorized Service Center. See page 37 for complete instructions.













CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). 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 "danger-

ous 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 (servic-

ing) 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.

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.

Cet appareil ne doit pas être exposé à des gouttes ou à des éclaboussures et aucun objet rempli d'un liquide, comme un vase, ne doit être placé sur l'appareil.

WARNING: This product contains chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm.

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.

Stand Requirement

CAUTION: Use these Mitsubishi TV models only with the Mitsubishi stand model shown here. Other stands can result in instability and possibly cause injury.

TV Model	Stand Model
WD-73740, WD-73840	MB-S73A

Mitsubishi does not design, manufacture or sell matching bases for 82-inch and 92-inch model televisions. When selecting a stand, base, or other furniture to support the TV, please make sure it is designed with the appropriate dimensions for stability and to support the TV's weight plus the weight of any additional equipment you plan to store.

Custom cabinet installation must allow for proper air circulation around the television.

FCC Declaration of Conformity

Product: Projection Television Receiver

Models: WD-73740, WD-82740

WD-73840, WD-82840, WD-92840

WD-82CB1

Responsible Mitsubishi Electric Visual Solutions

Party: America, Inc.

9351 Jeronimo Road Irvine, CA 92618-1904

Telephone: 1 (800) 332-2119

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.

Canadian Notice

For Model WD-82CB1

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Note: Features and specifications described in this owner's guide are subject to change without notice.

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Lamp Replacement

When the lamp cartridge needs replacement, **replace** the lamp yourself and save the cost of a service call. See Appendix A for instructions.

To Order a Replacement Lamp Under Warranty Visit our website www.mitsuparts.com or call (800) 553-7278. Please have television model number, serial number, and proof of purchase available.

To Order a Replacement Lamp After Warranty Visit our website at www.mitsuparts.com or call (800) 553-7278. Please have the television model number available. Order new lamp part number 915B455011.

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 and while using the **Bright** Lamp Energy setting.

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.

Children and TV Viewing

The American Academy of Pediatrics discourages television viewing for children younger than two years of age.

Note: Features and specifications described in this owner's guide are subject to change without notice.

TV Software

- Do not attempt to update the software of this TV with software not provided by or authorized by Mitsubishi Electric Visual Solutions America, Inc. Non-authorized software may damage the TV and will not be covered by the warranty.
- Automatic software updates will be downloaded over the internet to the TV if StreamTV is set up and connected to the internet. In Canada, WD-82CB1 users can receive automatic software updates although StreamTV services are unavailable.

Important Safety Instructions

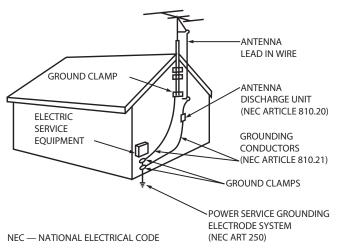
Please read the following safeguards for your TV and retain for future reference. Always follow all warnings and instructions marked on the television.

- 1) Read these instructions.
- 2) Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- 5) Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 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.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 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.



- 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.

EXAMPLE OF ANTENNA GROUNDING



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

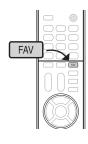
When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

1

Additional TV Features

FAV (Favorites)

The **FAV** key gives you quick access to favorite program sources. Sources can be channels from the **ANT** input or devices connected to the TV. You can store up to nine favorites.





Sample Favorites menu. Switch to favorite channels or inputs using number keys.

Adding Favorites

- 1. Press INPUT and switch the TV to the input you want to add. If adding a channel, switch to the ANT input and tune to the channel.
- 2. Press the FAV key.
- **3.** Move the highlight to the number position you want to assign to the channel or input.
- 4. Press ENTER.

Removing

- 1. While watching TV, press the FAV key.
- 2. In the *Favorites* menu, highlight the channel or input you want to remove.
- 3. Press CANCEL.

uning

- 1. While watching TV, press the FAV key.
- Press the number key for the channel or input you want.

Sleep Timer

The Sleep Timer turns the TV off after the length of time you set. To set the TV to turn on at a certain time of day, see the **Setup > Timer** menu.

Setting the Sleep Timer

1. Press SLEEP.



- Press SLEEP additional times to increase the time in 30-minute increments up to the maximum of 120 minutes.
- **3.** Press **EXIT** or wait five seconds without pressing any keys for the message to clear.

Viewing or Changing the Sleep Timer

- 1. Press **SLEEP** to display the on-screen message.
- Press SLEEP additional times to change the time before the TV powers off. To cancel the Sleep Timer, press SLEEP repeatedly until OFF is displayed.

ChannelView Channel Listings

ChannelView displays program descriptions sent by broadcasters. This information may be unavailable in some areas.

About ChannelView

ChannelView[™] shows memorized channels on the **ANT** input. It displays channel names and program information for digital channels. No program information is displayed for analog channels.

ChannelView allows you to set up three banks of custom channels for convenient access. You can save groups of channels by content (e.g., news, sports, children's programming) or by TV user.

Note: You must first set the TV Clock to receive correct ChannelView listings. Use the **Setup** > **Clock** menu.



ChannelView "All" tab. Programs are listed on the right.

Using ChannelView Listings

Task	Action
Display/hide ChannelView listings (ANT input only).	Press GUIDE .
Move through channels one by one.	Press ▲ or ▼.
Move through channels quickly.	Press and hold CH .
Jump to listings for a specific channel.	Enter the channel number. Press CANCEL once to add a dash; press CANCEL twice to clear the channel number.
Tune to a highlighted channel.	Press ENTER.
Update program information for a highlighted digital channel.	Press the INFO key (the screen may briefly go blank).
Display program descriptions, if available. The description will appear at the bottom of the screen.	 Press ➤ to move into the program area. Press ▲ ▼ to move between programs.
Display more program description for the current channel (if available).	Press INFO.

ChannelView Custom Channel Banks



Select a channel bank to customize.

- 1. Press GUIDE to display ChannelView.
- Press MENU to move the highlight to the bank header.
- 3. Press ► to select Bank 1, 2, or 3.
- **4.** With the bank name highlighted, press **ENTER** to enter setup mode where you can select channels to include in the bank.

Task	Action
Move between banks	Press ◀ ▶.
Move into the channel list	Press ▼.
Add or delete a channel from the bank	 Highlight the channel and press ENTER. A check indicates the channel has been added. Press ENTER again to clear the check and remove the channel.
Remove all channels from the selected bank	Press CANCEL.
Enter or exit setup mode	Press MENU.

5. Press EXIT when finished with setup.

Using Custom Channel Banks

- While watching TV, press **CH**. The TV will tune only to channels stored in the current bank.
- To change to a different channel bank:
 - 1. Press GUIDE.
 - 2. Press MENU.
 - **3.** Press **◆ ▶** to highlight the desired bank.
 - 4. Press EXIT.
- To allow tuning to any channel in memory, select the All bank.

Picture Shape and Display Formats

Format Definitions

Use the **FORMAT** key to apply the formats described here.

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.

Effect of Mitsubishi Formats on Picture Types

Original Signal TV Display Format	Non-anamorphic or SD 4:3		(An	amorphic DVD
Standard		Distorted; Not recommended.		Recommended
Expand		Recommended for letterbox. See Note 1.		Distorted; not recommended. See Note 1.
Zoom		Distorted; Not recommended. See Note 1.		Recommended for anamorphic 2.35:1 images. See Note 1.
Stretch	0000	Recommended for standard broadcasts. See Note 1.		Distorted; not recommended. See Note 1.
Stretch Plus		Recommended for standard broadcasts. See Note 1.		Distorted; not recommended. See Note 1.
Narrow	0000	See Note 1	0000	Distorted; not recommended. See Note 1.

Note 1: Available for 480i and 480p signals only.

Origina	l Signal	Display	Formats
SD 16:9 or HD Digital 720p, 1080i,			Recommended to remove side bars.
1080p Signal	<u></u>		Recommended to remove bars from the top, bottom, and sides.

TV Display Formats. Press the **FORMAT** key repeatedly to see different displays for the current program. Press the **INFO** key to see the name of the format in use.

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.

Stretch Plus: Similar to Stretch, but minimizes distortion on the sides by expanding the picture to crop off portions of the top and bottom. Use $\blacktriangle \nabla$ to adjust the vertical position of the picture.

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.

Note: 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.

DVD Image Definitions

Image information may be stated on the DVD case. Some DVDs support both formats described below.

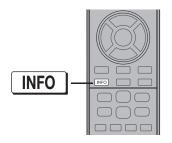
Anamorphic (or Enhanced for WideScreen TV) Indicates DVDs recorded to show widescreen images properly on 16:9 TV sets using the TV's Standard format mode (recommended).

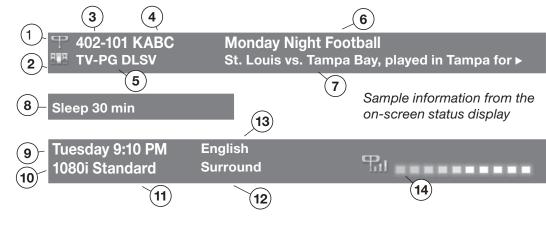
Non-Anamorphic (or 4:3, 1.33:1, Letter Box, or Full Screen)

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.

Status Display

Press the **INFO** key to see the on-screen status display. The most common displays are shown here.



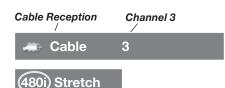


About Channel Numbers

Channel Numbers for Over-the-Air Reception or Reception by Direct Cable

Note: All signals are automatically converted to 1080p for display.

Standard-Definition Analog Channels



Receiving Standard-Definition Analog Signal (480i)

Standard-Definition Digital Channels

Over-the-Air Antenna Reception Main Channel 7
Sub-Channel 1



7-1 KABC-SD



Receiving Standard-Definition Digital Signal (SD)

High-Definition Digital Channels

Over-the-Air Antenna Reception Main Channel 7 Sub-Channel 1



7-1 KABC-HD



Receiving High-Definition Digital Signal (HD) 1. Current Input. Examples:





2. Audio Indicator. Key:





- **3.** Channel number (antenna source only)
 Digital channel includes major and sub-channel numbers.
- 4. Digital channel name (if broadcast); antenna source only.
- 5. V-Chip rating
 - Digital signal: Antenna source only
 - Analog signal: Antenna or VIDEO composite jack
- 6. Program name (if broadcast); digital antenna source only
- **7.** Program description (if broadcast); digital source, antenna only. Press the **INFO** key additional times to see more of the description.
- 8. Sleep Timer remaining time
- 9. Day and time
- Signal type being received. See "Signal Definitions" on this page.
- 11. Screen format in use
- 12. Program audio indicator (antenna source only)
- **13.** Available language (digital source, antenna only)
- **14.** Signal-strength indicator (digital source, antenna only)

Signal Definitions

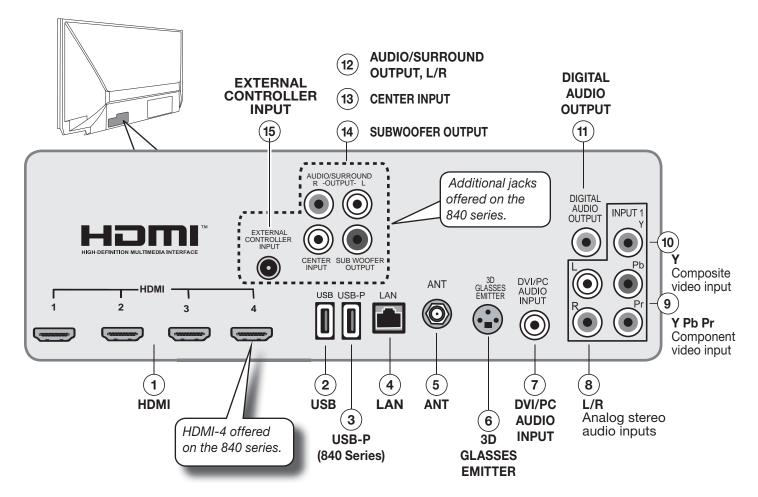
480i: Standard-definition, older type interlaced signals from the **ANT**, composite **VIDEO**, component **Y Pb Pr**, or **HDMI** jacks.

480p: Standard-definition progressive-scan signals on the **ANT**, component **Y Pb Pr**, or **HDMI** jacks.

720p and 1080i: High-definition signals received through the **ANT**, component **Y Pb Pr**, or **HDMI** jacks. These signals are always 16:9 (widescreen), but may contain embedded 4:3 images with sidebars.

1080p: High-definition signals from a PC, Blu-ray player, or some satellite and set-top boxes; HDMI inputs only.

More On TV Inputs and Outputs



The Basic Owner's Guide supplied with your TV contains connection diagrams showing how to use most of these jacks.

1. HDMI® Inputs (High-Definition Multimedia Interface)

The HDMI inputs support uncompressed standard and high-definition digital video formats, bitstream Dolby Digital 5.1, and PCM digital stereo audio. These inputs are HDCP (High-Bandwidth Digital Copy Protection) compliant.

Mitsubishi recommends you use high-speed HDMI cables to connect newer source devices incorporating HDMI technology. High-speed cables bring you the full benefits of Deep Color.

These 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 audio cable to the **DVI/PC AUDIO INPUT** jack 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.

HDMI Cable Categories

HDMI cables are available as Standard and High-Speed types.

- High-Speed HDMI Cables. Blu-ray players, newer DVD players, video games, 3D content, and set-top boxes require High-Speed HDMI 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 1080p HD signals carrying extended color encodings (i.e., 30 or more bits, also called Deep Color). High-Speed HDMI 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.

More On TV Inputs and Outputs, continued

2. USB

- Use for a wireless network adapter to receive StreamTV internet content.
- The USB port can also serve as a standard USB 5-volt, 500-milliamp power output to power an accessory device.

3. USB-P (Power Only)

840 Series. Standard USB 5-volt, 500-milliamp power output you can use to supply power to an accessory device. See page 14.

4. LAN

Use the **LAN** Ethernet jack for streaming internet video to the TV.

5. ANT (Antenna)

Connect your main antenna or direct cable service (without a 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. 3D GLASSES EMITTER

Use this jack for the special synchronization emitter supplied with some 3D glasses. The emitter sends out an infrared signal that synchronizes your 3D glasses with the screen display.

7. DVI/PC AUDIO INPUT

Connect a DVI device to one of the TV's HDMI inputs and use this jack to send analog audio to the TV.

8. L/R (INPUT 1 audio)

Analog stereo inputs for use in conjunction with adjacent composite or component video jacks.

9. Y Pb Pr (Component Video)

Analog video inputs able to accept high-definition video from a high-definition source device. Use the adjacent $\bf R$ and $\bf L$ inputs if you wish to send audio to the TV speakers.

10. Y (Composite Video)

Analog standard-definition video inputs. Use the adjacent $\bf R$ and $\bf L$ inputs if you wish to send audio to the TV speakers.

11. 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, this is the only audio connection needed between the TV and your A/V receiver.

12. AUDIO/SURROUND OUTPUT, L/R

840 Series. Provides analog audio output of the current program. Use to:

- Send audio to an analog A/V surround sound receiver or stereo system.
- Send a rear surround sound channel to an external amplifier or self-powered speakers. See page 15.
- Send audio to headphones. Set Sound > Global > Analog Audio Out to Variable.

Digital audio from digital channels and HDMI devices is converted to analog audio by the TV for output on these jacks.

13. CENTER INPUT

840 Series. Connect your A/V receiver's center channel output to this input to have the TV speakers complement your external sound system with center-channel sound. Set *Sound > Global > Center Channel* to **On** to enable this input. See "Using the TV Speakers as a Center Channel," page 16.

14. SUBWOOFER OUTPUT

840 Series. Connect a powered subwoofer to this input to complement effects from the TV's speakers. Set **Sound > Global > Subwoofer** to **On** to enable this output (see "Adding a Subwoofer," page 14).

15. EXTERNAL CONTROLLER INPUT

840 Series. Accepts control signals from an external controller when set up by your professional installer. The controller should send electronic versions of remote control IR commands.

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 output.

Computer Graphics Output	Computer Graphics Connection	Audio Connection
Digital DVI	DVI-to-HDMI cable or an HDMI cable with a DVI-to-HDMI adapter	Audio cable with mini-plugs
НОМІ	HDMI-to-HDMI cable	No additional audio connection is required.

IMPORTANT

This TV accepts digital computer graphics signals only. This TV is not compatible with VGA (analog) computer signals.



- Connect the computer's digital video output to one of the TV's HDMI jacks. See the connection diagrams on this page 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.
 - For HDMI signals, no additional audio connection is required.

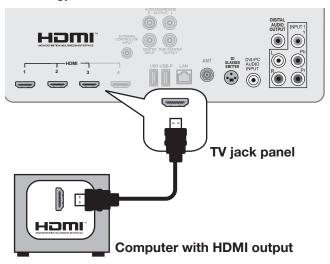
Note: If you are unable to hear audio from the computer, there may be an incompatibility in the computer's hardware, software, or internal settings. Consult a trained computer technician for advice.

- Power on the TV and computer. The TV will detect the connection and display the New Device Found screen.
- 4. In the New Device Found screen, press ▲ ▼ to highlight PC in the list of device types. It is important to use the name PC so that the TV processes the PC signal correctly.
- Highlight EXIT and press ENTER to close the New Device Found screen.

Note: If your computer provides digital audio output you can connect it directly to a digital A/V receiver and bypass the TV.

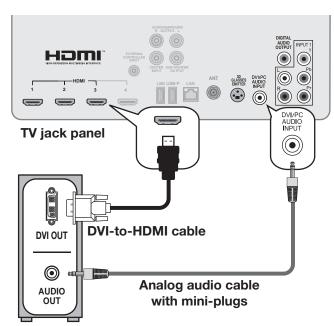
HDMI Connection

Mitsubishi recommends using high-speed HDMI cables to connect newer devices incorporating HDMI technology.



An HDMI-to-HDMI connection carries all video and audio on a single cable.

DVI Video Connection



Computer with DVI and analog audio outputs

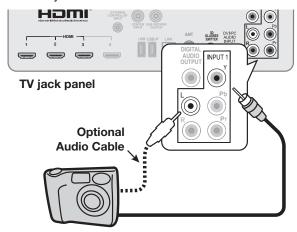
A DVI connection from a personal computer requires a separate audio connection.

Specialized TV Connections

Photos and Motion Video as Composite Video

Connect the camera to the TV using a composite video cable and control the slide show or movie through the camera. The display resolution will be standard-definition (480i).

- 1. Refer to the owner's manual supplied with the camera for instructions needed for this setup.
- **2.** Set the camera's output signal type to **NTSC** and put the camera into playback mode.
- 3. With the camera still turned on, connect your digital camera's composite video cable (usually yellow) to the TV's Y composite video jack. To hear audio, connect the camera's audio output cable to the audio L jack.



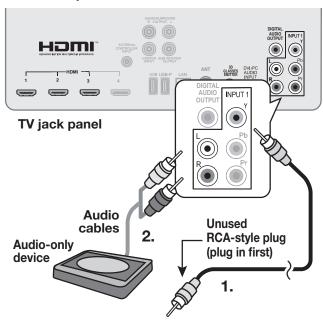
Camera connection using a composite video cable

- **4.** When the **New Device Found** screen displays, assign the name **Camcorder**.
- 5. Press EXIT to close the **New Device Found** screen.
- If viewing photos, control the slideshow from the camera. Advance through the images manually or check if the camera can advance automatically.

Using the TV with an Audio-Only Device

To use the TV speakers to listen to an audio device such as an MP3 or CD player with analog output, follow these steps.

- Insert an unused RCA-style connector into the Y composite video jack. The presence of this connector activates the TV's auto-detection.
- When the TV detects the video connector, it will display the New Device Found screen. Name the new input CD/Audio or MP3 Player.
- Connect left (white) and right (red) audio cables from AUDIO OUT on the device to L and R on the TV.
- **4.** Keep the connector in the **Y** jack while using the audio-only device.



Computer Video Adjustments

- **1.** Power on the computer.
- Select PC from the *Input Selection* menu. To do this, press INPUT to open the *Input Selection* menu, move the highlight to the PC icon, and press ENTER.
- 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.

- 4. Press FORMAT repeatedly to find the picture shape best suited to the image. See the chart on this page showing how different computer reso-
- Perform TV video adjustments. Press VIDEO repeatedly to access videoadjustment options.

lutions can be displayed on the TV.

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.

Image Resolution

Your Mitsubishi TV can display the resolutions shown in the chart 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 pattern after several minutes of inactivity. This acts as a reminder that the TV is powered on.

Computer Display Formats

Press **FORMAT** repeatedly to cycle through the TV displays available for your computer's video signal.

, ca. copare.		•			
Computer Signal		As Displayed on TV Screen			
Original	Format	4 X 3 Standard	16 X 9 Standard	Zoom	
VGA 640 X 480					
SVGA 800 X 600					
Original	Format	Standard	Zoom		
XGA 1024 X 768				_	

Original	Format	Standard	Zoom
XGA 1024 X 768			
PC 720p 1280 X 720			
WXGA 1360 X 768			
SXGA 1280 X 1024			

Original l	Format	Standard	Reduce
PC 1080p 1920 X 1080			

Supplemental Audio Connections (840 series)

Add a subwoofer to complement the TV's speaker array or use the TV's speakers as a center channel for your external sound system.

Adding a Subwoofer

Add a subwoofer to complement the TV speakers with a fuller bass sound.

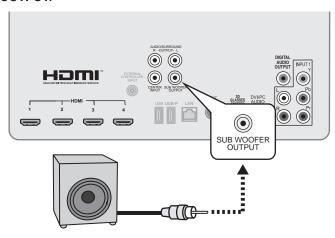
 After connecting a subwoofer, you must enable the TV's subwoofer output in the TV's **Sound** menu. Go to **Sound > Global > Subwoofer** and set it to **On**.



- To control subwoofer volume
 - Press the AUDIO key and then press ▼ to find the subwoofer volume slider. Press ◀ ▶ to change the volume.
 - Open the Sound > Audio menu. Highlight Subwoofer and press ◀ ▶ to adjust. Press MENU to return to the Sound > Audio menu.

Subwoofer with Audio Cable

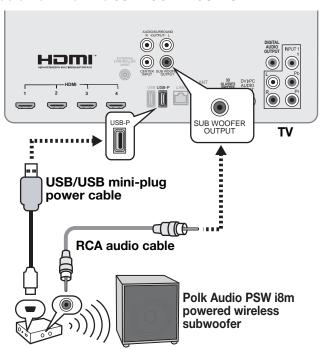
Connect the subwoofer directly to the TV's **SUBWOOFER OUTPUT**.



Subwoofer with audio connection to TV.

Wireless Subwoofer

Mitsubishi recommends Polk Audio Wireless Subwoofer model PSW i8m. The transmitter module can be conveniently powered from the TV's USB power port. Connect an audio cable to the transmitter to supply audio from the TV's **SUBWOOFER OUTPUT**.

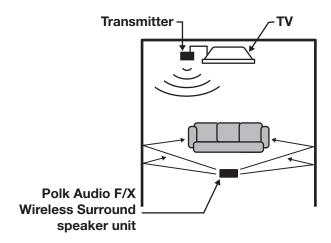


Setup to send audio signals wirelessly to the subwoofer.

Supplemental Audio Connections (840 series), continued

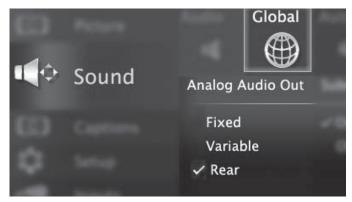
External Rear Speakers

You may wish to supplement surround sound from the TV with external rear speakers. External speakers can fill in rear sound if your room lacks a rear wall suitable for sound reflections. Mitsubishi recommends Polk Audio's F/X Wireless Surround system.

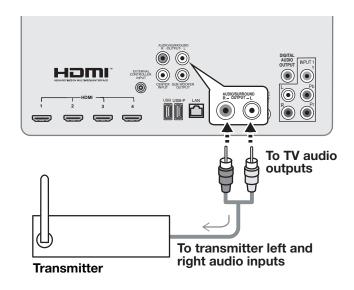


Sample layout using an external speaker unit in a room without a back wall suitable for rear sound reflections

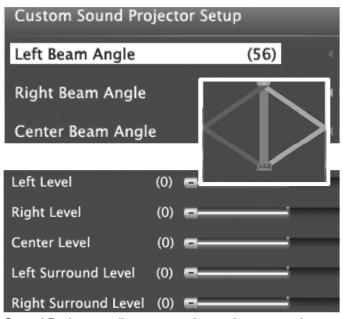
- Position the external speakers as needed for rear sound
- **2.** Connect analog audio output from the TV to the Polk Audio F/X Wireless Surround transmitter.
- **3.** Power on the TV, speakers, and transmitter.
- 4. Set Sound > Global > Analog Audio Out to Rear.



- Adjust the sound output. Go to the Sound > SoundPro > CUSTOM menu.
 - **a.** Adjust beam angles for the left, right, and center beams.
 - **b.** Adjust volume levels for all audio beams, including the left and right surround beams.
- Play sample audio to check the sound. Repeat any of the adjustments as needed.



Connecting the transmitter to the TV



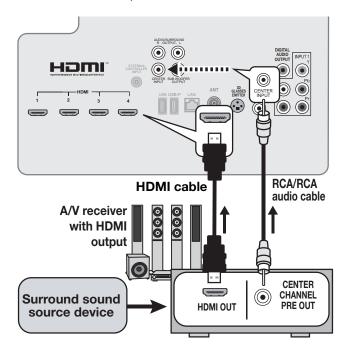
Sound Projector adjustments when using external rear speakers.

Supplemental Audio Connections (840 series), continued

Using the TV Speakers as a Center Channel

If using an external surround sound system, you can use the TV's speakers to provide center channel sound. Your A/V receiver must have a center channel pre out that can supply an amplified center-channel signal to the TV.

1. Connect your A/V receiver's HDMI output and center channel pre out to the TV as shown.

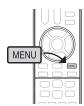


- 2. Turn on the A/V receiver's center channel pre out if needed. See the A/V receiver's instruction manual.
- Enable the TV's center channel mode. Press the AUDIO key and press ▼ to display the TV Speakers option. Press ► to select Center.
- **4.** Compare the center channel volume from TV's speakers to the rest of the sound system. If the center channel volume needs adjustment,
 - a. Press AUDIO and press ▼ to display the Center Level volume slider.
 - **b.** Adjust TV speaker volume using the ◀ ▶ keys.
 - c. Compare the center channel volume to the rest of the sound system. Repeat this adjustment if needed.

TV Menus

Main Menu

Press MENU on the remote control to open the main menu.



Picture	Picture settings	17
Sound	Sound settings	21

C	Captions	Closed captions on/ and off; caption dis- plays	23
(C)	Setup	Basic TV setup	24
	Inputs	Name assignments for TV inputs, HDMI Control setup	27
	Lock	Setting a pass code and restrictions on TV use. Disabling the control-panel buttons.	29



Picture

Assign a name to the current TV input before making video adjustments (use the New Device Found or Inputs > Name menu). Adjustments will be reset to the defaults if you rename the input after making adjustments.

Picture

Video







Settings in this menu are saved for the current input only. Press ◀ ▶ to make changes and then press **MENU** to return to the menu screen.

To make Video adjustments while watch- 1. Press the VIDEO key. ing TV and without using the menu:

Brilliant

For use under bright light: unavailable when the

- 2. Press ▲ ▼ to select a video option.
- **3.** Press **◄** ▶ to change the setting.

Picture Mode

brilliant	current input is named Game or PC .	changing other video settings, as
Game	Optimizes picture and video processing for gaming consoles. Available only when the name of the input is Game or PC .	some settings are stored independently for each Picture Mode. Use Picture Modes to get the best image under different viewing
Bright	For most daytime viewing	conditions.
Natural	For most nighttime viewing	-
ADV1, ADV2		
840 Series: ISF Day/3D, ISF Night/2D	Advanced Picture Modes. Contact your profession an overview.	al installer for setup. See page 19 for

Contrast

- Low contrast shows a variety of shades in darker images
- In most home lighting situations, medium contrast looks
- High contrast shows darker images more uniformly black and makes colors appear more vibrant. High contrast is good for brightly lit environments.

Adjusts the white-to-black level Settings are stored independently for each Picture Mode.

Sat the Picture Mode first before



Picture, continued

Adjusts ove	Adjusts overall picture brightness. Settings are stored independently for each Picture Mode.		
Adjusts ove	rall color intensity from monochromatic to fully satura	ted.	
Adjusts the red-to-green ratio.			
Adjusts pict	Adjusts picture detail and clarity.		
High	Gives white images a cool cast. May provide the most realistic picture under bright lighting.	Adjusts the white balance. Settings are stored independently for	
Low	Gives white images a warm cast. Natural/Color Temp at the low setting displays video at approximately the 6500K industry standard for NTSC pictures.	each Picture Mode.	
High, Medium, Low, Off	 High. For poor-quality signals. Medium. For moderate noise reduction. Low. For good-quality signals. Off. Leaves the picture unaltered. 	Reduces minor noise (graininess) in the picture.	
	Adjusts over Adjusts the Adjusts pict High Low High, Medium,	Adjusts overall color intensity from monochromatic to fully satural Adjusts the red-to-green ratio. Adjusts picture detail and clarity. High Gives white images a cool cast. May provide the most realistic picture under bright lighting. Low Gives white images a warm cast. Natural/Color Temp at the low setting displays video at approximately the 6500K industry standard for NTSC pictures. High, High. For poor-quality signals. Medium, Low, Off • Medium. For moderate noise reduction. • Low. For good-quality signals.	

Picture Plus)







Screensaver

On, Off

Select ${\bf On}$ to display a screensaver pattern while playing an audio-only input. To use this feature, the input must either

Be named as an audio source (e.g., CD, MP3 Player)

Be the antenna input tuned to an audio-only signal.

Film Mode

Auto, Off

480i and 1080i signals only. In **Auto**, the TV automatically detects and applies film-decoding correction to movies filmed at 24 frames per second. Try the **Off** setting if images show many jagged edges. Setting saved by input.

Test Picture



Press **ENTER** to display a test picture. Use as a reference picture for high-definition images only.

Picture Reset







- Resets sound and picture adjustments for the current input. Highlight the Reset icon and press ENTER twice to perform reset.
- Reset has no effect on universal settings (Balance, Listen To, Language) or on Advanced Picture Mode settings.

19 2. TV Menus



Picture, continued

Picture Perfect







(PerfectColor, 840 Series)

PerfectColor Sliders Adjusts the saturation (intensity) of six colors for the current image source.

PerfecTint Sliders Adjusts six hues for the current image source

Using PerfectColor:

Highlight the Perfect icon and press ENTER to display the PerfectColor menu. Settings are retained independently for each TV input.

Using PerfecTint:

- To switch between PerfectColor™ and PerfecTint™ adjustments, highlight PerfectColor/PerfecTint and press ◀ ▶.
- Press ▲ ▼ to move from one color bar to the next.
- Press **◆** ▶ to change settings.
- Press CANCEL to restore default settings.
- Press **MENU** to return to the main menu.

Advanced **Picture**







Picture > Advanced allows you to save highly customized picture adjustments for each input. Mitsubishi recommends these adjustments be made only by a trained professional installer.



- 1. Press MENU. Under Picture, highlight the Advanced icon and press ENTER.
- 2. With **Picture Mode** (the first option) highlighted, press ENTER to change from blank (undefined) to ADV1 (daytime settings) or ADV2 (nighttime settings).
- 3. Use ▲ ▼ to highlight an option you wish to change and press ENTER to see the adjustment display.
- Press ▼ ► to change settings.
- Use ▲ ▼ to navigate to additional options and press ◀ to change settings.
- 6. Press MENU to return to the *Picture > Advanced* menu and save the adjustments for the current input. Press **EXIT** to close the menu.

Saving Custom 3D Settings

This menu can be used to create a custom Picture Mode for viewing 3D content. Mitsubishi recommends saving 3D settings under the name ADV1 and 2D settings under the name ADV2.

To create a custom 3D picture mode:

- The TV must be receiving a 3D signal
- One of the TV's 3D Source Formats must be
- You must be wearing 3D glasses matched to the emitter in use.

Locking Custom Picture Mode Settings

840 Series. Once set up, you can protect custom Picture Mode settings with a pass code. With the Picture > Advanced menu displayed, highlight the Picture Mode name and press keys

(7) (4) (1) (5) (3) (6) (9) (ENTER)

Once locked, the name of each Picture Mode changes:

ADV1 is locked as ISF Day/3D ADV2 is locked as ISF Night/2D

Use the same key sequence to unlock the settings and make changes.

To Use a Custom Picture Mode at a Later Time

- Press VIDEO and use ▲ ▼ to find the Picture Mode option. Press ◀ ▶ to select the desired mode.
- Press MENU and go to Picture > Video > Picture Mode and select the desired mode.

To Return to the Default Values for Advanced

Display the *Picture > Advanced* menu and:

- 1. Highlight the name of the **Advanced** mode to change.
- 2. Highlight RESET Pic Mode and press ENTER. You must perform the reset separately for both ADV1 and ADV2.



Picture, continued

Picture

3D Mode





Source Format	Off	 Overrides the 3D processing of any HDMI 1.4a-c plays the signal in 2D instead. Allows access to some of the 2D picture adjustm TV's 3D mode is set to Automatic. 	
	Automatic	 When the TV receives a 3D signal from an HDMI the TV automatically into 3D mode and selects the When the TV receives a normal 2D signal, makes mode. Not effective with checkerboard 3D signals. Many when needed. 	he correct 3D format. the TV automatically exit 3D
	Side-by-Side Top/bottom Checkerboard	 3D format choices for use with 3D signals that ar When the TV receives a 3D signal that is not HDN must manually select a 3D format here based on received. Return the TV to Automatic or Off at the end of program. If an HDMI 1.4a compliant signal is received, the any manual 3D selection. 	MI 1.4a compliant, you the type of 3D signal being the non-compliant 3D
	2D+ Depth	When active, generates a simulated 3D image from a	n ordinary 2D signal.
Glasses Emitter Internal	Standard, Reverse, Off	 For use with the TV's internal emitters Select the Off setting if you notice IR interference with other devices. 	Use the Standard or Reverse setting to synchro-
Glasses Emitter External	Standard, Reverse	For use with an external emitter connected to the TV's 3D GLASSES EMITTER jack.	nizes left/right images to work with your 3D glasses.
Depth		 Available only when Source Format is set to 2D Highlight the icon and press ENTER to display the Allows adjustment of the 3D effect from a flatter 	adjustment screen.
DLP Link	Standard, Reverse, Off	 For use with DLP Link. Select the Off setting if you are not using DLP Link glasses. 	Use the Standard or Reverse setting to synchronizes left/right images to work with your 3D glasses.

Notice Concerning Format Compatibility

The Mitsubishi TVs will support the mandatory HDMI 1.4a 3D signals intended for the United States. Specifically, the TVs will support the 3D signals known as Frame Packing 1080p/24Hz and 720p/60Hz (primarily from Blu-ray players and gaming consoles), Sideby-Side in 1080i/60Hz, 1080p/24Hz/30Hz/60Hz and 720p/60Hz, Top/Bottom in 1080p/24Hz and 720p/60Hz, and Checkerboard 1080p/60Hz. However, there may be some 3D sources that are not compatible with the TVs.

In all cases: (1) 3D sources must connect to the TVs using the HDMI inputs or via StreamTV™ Internet Media; and (2) Active Shutter 3D glasses that match the TV's internal synchronization emitter, or Active Shutter 3D glasses with their own external matching synchronization emitter connected to the rear of the TV or DLP Link Active Shutter 3D glasses are required in order to view 3D content.

2. TV Menus



Sound Audio





Settings in this menu are saved for the current input only with the exception of **Balance**, which applies to all inputs. Press ◀ ▶ to make changes and then press **MENU** to return to the menu screen.

21

To make Audio adjustments while watching TV and without using the menu:

- 1. Press the AUDIO key.
- **2.** Press ▲ ▼ to select an audio option.
- **3.** Press **◄** ▶ to change the setting.

	3	
TV Speakers	On	Turns on the internal TV speakers.
	Off	Turns off the internal TV speakers so you hear sound only from a connected A/V receiver. Note: When you disconnect an A/V receiver, be sure to change the Sound setting to TV to hear sound from the TV speakers.
	Center	840 Series. Makes the TV's speaker array act as a center channel. See "Using the TV Speakers as a Center Channel," page 16. Notes:
		 When Center is active, the subwoofer output is muted even if set to On. To de-activate the center channel, change TV Speakers to On or Off.
Center	[Center channel level adjustment	840 Series. Adjusts the volume level of the TV speaker array when used as a center channel. Note: Set <i>TV Speakers</i> to Center to make this adjustment available.
Bass	Controls volume	of low-pitched sound from the TV speakers.
Subwoofer	-	840 Series. Adjusts the volume level of a connected subwoofer. Note: Set Sound > Global > Subwoofer to On to make this adjustment available.
Treble	Controls volume	e of high-pitched sound from the TV speakers.
Balance	Controls audio b	palance between the right and left TV speakers
Sound Mode	Stereo	No special audio effects from the TV speakers
	Surround	 Modifies audio from the TV speakers. For monaural (non-stereo) programs, creates a simulated stereo effect. For stereo programs, creates a simulated surround sound effect. The TV's speaker array plays surround sound if available.
	Music	840 Series. Optimizes the TV's speaker array for music listening.
	Night	840 Series. Focuses the TV's speaker array to a single point to limit sound heard by others outside the room. Press ENTER to adjust the focal point (Night Angle).
Level Sound	On, Off	Reduces differences in sound volume between programming segments, such as the difference between regular broadcast programs and commercial segments.
Listen To (applies only	Stereo	The TV plays stereo broadcasts in stereo and mono broadcasts in mono. The word Stereo is displayed when you tune to a channel broadcasting in stereo.
to analog channels from	Mono	Reduces background noise. Use when receiving a weak stereo audio signal. All audio is played as mono.
the ANT input)	SAP (Second Audio Program)	Selects an additional monaural sound track not audible during normal TV viewing. The SAP signal might be related to the program (such as a sound track in a foreign language), or it might be unrelated (such as a weather report). If an SAP signal is broadcast, the letters SAP are displayed when you tune to the channel.



Sound, continued

Global







840 Series. These settings affect audio from the **AUDIO/SURROUND OUTPUT** jacks.

Analog	Audio
	Out

Fixed	volume of the audio output signal is fixed and is unaffected by the TV's volume control.
Variable	Use with headphones. Adjust headphone volume using the TV's volume controls. When set to Variable , the audio output signal is adjustable from the TV's volume controls.
Rear	Sends left and right rear audio to external speakers. Use when supplementing the TV's speaker array with external rear speakers. See "External Rear Speakers," page 15.
0 1 . 0 .	

Subwoofer Select On to turn on audio to a connected subwoofer. Set to Off if no subwoofer is connected.

Sound **Auto SP**







840 Series. Performs auto calibration of the Sound Projector speaker array. Use of this menu is explained in the Basic Owner's Guide supplied with the television.

Sound **SoundPro**





840 Series. Lets you set up the Sound Projector speaker array manually. Use of this menu is explained in the Basic Owner's Guide supplied with the television.

2. TV Menus 23



Captions on Digital Channels

The TV can decode captions from the **ANT** input only. Broadcasters can send up to six different captioning selections or can send analog captions for a program that originated in analog format. A TV station may broadcast only one or two types of captions or none at all.

Captions on Analog Channels

The TV can decode captions from the **ANT** input and the composite **VIDEO** jacks. Broadcasters can send either standard closed captions or text service. Standard closed captions follow the dialogue of the program and display in a small section of the screen. Text-service closed captions often contain information such as weather or news and cover a large portion of the screen.

IMPORTANT

- Analog text-service options display a large black or gray box on the screen when no caption signal is being broadcast.
- The content of captions is determined by the broadcaster. If captions show strange characters, misspellings, or odd grammar, it is not a malfunction of the TV.
- Closed-caption signals are not available through HDMI or component jacks. See the menus for devices connected to these inputs for closedcaption decoding.

Captions Services







Service	On if Mute, On, Off	On if Mute: Displays digital closed-caption signal Caption 1 (digital) or CC1 (analog) when audio from the TV speakers is muted. While watching TV, press MUTE to turn closed captions on/off.
Digital	Caption 1-Caption 6	Caption signals sent by the broadcaster.
Analog	CC 1-CC 4 Text 1-Text 4	 CC 1–CC 4. Standard closed-caption signals Text 1–Text 4. Text-service signals

Captions

Font







These choices apply to digital captions only.

Style	As Broadcast or	As Broadcast changes settings to those selected by the captions provider,
	choice of font styles	or, if none, to the TV's own caption defaults. Use one of the font styles to
	(digital captions only)	give digital captions a custom appearance.
Size	Large, Medium, Small	Large is recommended.

Captions Color







Font	White, Black, Magenta, etc.	Recommendations for digital captions:
Opacity	Translucent, Opaque, Flashing, Transparent	A white font on a black translucent back- ground makes an easy-to-read combination.
Background Color	White, Black, Magenta, etc.	Use contrasting colors for captions and back- ground.
Background Opacity	Translucent, Opaque, Flashing, Transparent	



Setup

Language







Menu

English Spanish Displays on-screen menus in either English or Spanish.

Antenna Digital Audio Selects the current language for a digital program from the ANT input. A digital program may include up to seven language choices or no language choice.

Setup

Clock







Set the TV clock to:

- Use the TV Timer to power on the TV automatically at a time you specify
- Receive correct updates to ChannelView listings
- Lock the TV by time

Note:

- When the Daylight Saving Time change occurs, you must open this menu and set the TV's clock ahead or back.
- You must reset the TV's clock after an interruption of power such as unplugging the TV's power cord.

Time

Highlight the Clock icon and press **ENTER** or **▼** to highlight the time. To edit time and date:

- Press **ENTER** to select the item to change.
- **Date**
- Press ▲ ▼ to change values. Press **ENTER** to confirm entries.
- Press **◆** ▶ to move to another column.

Time Zone

Eastern, Central, Mountain, Pacific, etc. The correct time zone is required for accurate ChannelView updates.

Daylight Savings

Off, On

Select the setting for your area (required for accurate ChannelView updates).

Setup

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 TV POWER indicator flashes slowly while the TV is powered off.
- When the Timer turns on the TV, press any key on the remote control to keep it from turning off after five minutes.

Timer Select On to enable the Timer. On, Off

Daily, Mon-Fri, (every) Sunday, (every) Monday, Day (every) **Tuesday**, etc.

Select the day or days of the week for the Timer to turn on the TV.

Time

To set the time for the TV to come on:

- 1. Highlighted the time and press ENTER.
- 2. Press ▲ ▼ to change values. Press ENTER to confirm entries.

Input

Ant, DVD, VCR, etc.

Select the input you want displayed when the TV comes on. Choose from the defined and enabled inputs that appear in the Input Selection menu.

Channel If the source is the **ANT** input, press ▲ ▼ to select a channel number or press and hold to scroll quickly.

2. TV Menus 25



Setup, continued

Setup

Channel







Ant Air, Ant Cable

You must perform a channel scan to receive digital channels. The scan searches for broadcast channels and adds them to TV memory. To start channel scan:

All Channels, Add only new

- 1. Highlight one of the input selections based on your connection to the ANT input:
 - Air when connected to an indoor or outdoor antenna.
 - Cable when connected to direct cable (no cable box)
- 2. Select the scan type.

Scan

channels

- Select **All Channels** for an initial scan or after moving the TV to an new area with a different channel line-up.
- Select Add only new channels to search for channels newly broadcasting since the previous scan.
- 3. Press ▶ to highlight SCAN.
- 4. Press ENTER to start channel memorization.

See below for additional notes on Scan.

Edit

After channel scan, **Edit** lets you add and delete memorized channels. Memorized channels are those you can tune using the **CH** key. Edit the channel list to limit tuning to channels you watch.

- Press CH/PAGE to jump to the next or previous page of channel numbers.
- Press ▲ ▼ ◀ ▶ to move through all channel numbers, one at a time.

Adding/Deleting Channels Using the Channel Edit Menu

- Channels marked with a check are in memory.
- To add or delete a channel from memory, highlight the channel number and press ENTER.
- To add a single digital channel not in the list, see the notes under Scan on this page.
- Digital channels are listed by virtual channel number with the physical channel number shown in small gray text.
- Virtual Channel Number (digital channels only).
 A channel number sent by a local broadcaster.
- Physical Digital Channel Number. The channel number officially assigned to the actual broadcast frequency; shown on screen in gray text.

Notes on Scan and Channel Memorization

- Channel memorization may take up to 15 minutes to complete.
- To stop channel memorization before completion, press CANCEL. Channels already added are retained.
- When watching TV, press CH to move through memorized channels. Press and hold CH to speed through channels.
- To add a digital channel that does not appear in the *Edit* menu without performing channel memorization:
 - Look up the physical channel number for the new digital channel. See the website www.antennaweb.org for help.
 - 2. Press INPUT and select the ANT input.

3. Use the number and **CANCEL** keys to enter the physical channel number followed by "-1" and **ENTER**. For example, for physical channel 36,



The TV will search for a digital channel on the channel 36 frequency. When it finds the channel, it will:

- a. Add the channel to memory.
- b. Change the channel number to the virtual channel number sent by the broadcaster.
- Add to memory any associated sub-channels.
- Rememorize channels if you move the TV to a different geographic area with a different channel line-up.



Setup, continued

Setup

Energy







Lamp Energy Standard, Bright **Standard** is for most viewing conditions. Use **Bright** in brightly lit rooms. You may notice increased fan noise when using the **Bright** setting.

Setup

Network





Use of this menu is explained in the Basic Owner's Guide supplied with the television.

Ethernet Connection

Wireless Connection

DHCP (automatic), Manual	This option is available only when an Ethernet cable is connected to the TV's LAN jack.	
[Connection Data]		
[Network ID]	This option is available only when	
[Connection Data]	optional wireless adapter AzureWave AW-NU231 is plugged into the TV's	
Off. Turns off the TV's wireless system radio	USB jack.	
receiver. Use this option if there is RF interference with other devices.	840 Series. The wireless adapter must be used with the left USB jack and not	

the **USB-P** jack.

For assistance call 1(800) 332-2119

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Inputs

Name





INPUT and HDMI jacks: Cable box, Cam(corder), CD, DVD (DVD, DVD2, Blu-ray), DVR, Game (Game, PS, Xbox, Wii), Media Box, PC, Satellite, AVR, On/Off (ANT only)

INPUT jacks only: CD/Audio, MP3 Player, VCR

HDMI jacks only: PC, AVR, Delete

- Lets you assign or change the names of inputs appearing in the *Input* Selection menu. Highlight an input and press ENTER multiple times to cycle through the name choices.
- Lets you turn the Ant input On/Off to display or hide it in the Input Selection menu; highlight the input and press ENTER to switch between On and Off.
- 840 Series. Lets you turn the Bluetooth input On/Off to display or hide it
 in the Input Selection menu; highlight the input and press ENTER to switch
 between On and Off.
- Lets you delete unused HDMI inputs from the *Input Selection* menu.
- A CEC-enabled tuner can be named either Cable Box or Satellite.
- A CEC-enabled DVD player can be named DVD, DVD2, or Blu-ray.

General Notes for the Inputs > Name Menu

When you change an input name and then exit the **Name** menu:

- The name is changed
- The icon in the *Input Selection* menu is changed
- Audio and video settings are changed to the defaults for the new device type.

Notes for HDMI devices

- Disconnecting an HDMI device: When you disconnect an HDMI device, the icon remains in the Input Selection menu until you remove it. Select Delete in the Inputs > Name menu to remove an unwanted icon for an HDMI input.
- HDMI Control and CEC-Enabled Devices: See "HDMI Control of CEC Devices" on page 33.

- In case of CEC conflicts: Turn off CEC signals in one of these ways:
 - Turn off the TV's HDMI Control signals to the device (*Inputs* > *HDMI Control* menu).
 - Turn off each device's internal CEC capability.

See "HDMI Control of CEC Devices" on page 33 for the TV's HDMI Control or, to turn on/off a specific device's response to CEC signals, see the device owner's manual.

- If the New Device Found screen does not display as expected when you connect an HDMI device:
 - a. Power off the device.
 - b. Disconnect the HDMI cable.
 - c. Press MENU on the TV remote control to enter the TV main menu.
 - d. Go to Inputs > Name.
 - e. Highlight the HDMI input name and press ENTER to select Delete.
 - f. Press EXIT to clear the menus.
 - g. Connect the new device and the New Device Found screen will display.



Inputs, continued

Inputs

HDMI Control





On, Off

Select **On** or **Off** to enable or disable the TV's control of a CEC-enabled device. See "Enabling HDMI Control of CEC Devices" on page 33 for use of this feature.

Note: When **HDMI Control** is set to **Off** the TV may still respond to CEC commands sent by another device. To prevent this, turn off HDMI Control in the device using the device's own menus.

Inputs

Order



Lets you rearrange icons in the *Input Selection* menu.

- 1. Press ▲ ▼ ◀ ▶ to highlight an input icon.
- 2. Press ENTER to confirm the selection.
- 3. Press ▲ ▼ ◀ ▶ to drag the icon to the desired position.
- 4. Press ENTER to confirm the new position.

Inputs

StreamTV (740 and 840 Series)





Internet Services Highlight **the service name** and press **ENTER** to purge your account **Deactivation** information stored in the TV.

Inputs

Demo





See demonstrations showcasing selected TV features.

Inputs

Update





Provides instructions for updating TV software.

2. TV Menus 29



Lock

TV Locks

Parental

Lock by Program Ratings



Restricts access using U.S.-based ratings sent by broadcasters (740 and 840 series, U.S. only).

Time

Lock by Time



Restricts TV use by time of day.

Channel

Lock by Channel



Blocks access to the channels you specify.

Panel

Lock Control Panel



Disables the buttons on the TV's control panel. Use this feature if small children in the home try to press buttons on the control panel.

Other

Lock by Other Program Ratings



Restricts access using possible future ratings that may be sent by broadcasters (740 and 840 series, U.S. only).

Pass Code

Setting a Pass Code

You are prompted to enter a pass code whenever you select **Lock** on the main menu. To set a pass code for the first time:

- **1.** Press **MENU** and highlight **Lock**. A screen prompting you for a pass code will display.
- Input a four-digit pass code using the number keys on the remote control.
 - Press CANCEL to delete a number and move back one space.
 - Press MENU or EXIT to close the menu without setting a pass code.
- 3. Enter the code a second time to confirm.

Resetting a Pass Code

See the procedure in "Bypassing TV Locks" on page 30.

Parental Menu 740 and 840 Series, U.S. Only

The TV comes from the factory with the rating locks turned off and with pre-set U.S. ratings TV-PG and movie rating PG. You must turn on blocking for U.S. ratings to activate these rating restrictions. Use the *Lock > Parental* menu to change the level of blocking with U.S. ratings.

Any time you change the channel or device, it may take up to five seconds for the rating restrictions to take effect.

Other Menu (Alternate Rating System) 740 and 840 Series, U.S. Only

This TV can recognize new rating systems that may come into effect in the future. The *Other* menu allows you to block digital programming when such systems come into effect. The **Start Time** and **Stop Time** options in the *Parental* menu apply to U.S.-based ratings only and do not affect alternate rating systems.

The first time you tune to a channel broadcasting an alternate rating system, the TV defaults to the most restrictive setting if the *Lock* menu > *Other* Lock option is set to **On**. Use this menu to change the allowed rating if you are unable to watch a program rated with an alternate system.

Important Notes on Rating Locks

- Parental menu rating locks apply only to channels and signals received on the ANT and composite VIDEO jacks.
- Other menu rating locks apply only to digital channels received on ANT.
- 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.



Lock, continued

Using TV Locks

After you set the lock, you must use your pass code to:

- View a locked program
- View a locked channel
- View the locked TV
- Cancel the lock
- Open the *Lock* menus

Tips for Using the Lock Menu

When entering the *Lock* menu, you will be prompted to enter a pass code.

- To change the pass code, press 9 and LAST at the same time. Either enter a new pass code to open the Lock menu and make changes or press EXIT to close the menu.
- If any of the locks are turned on and you exit the menus when prompted for a new code, the old code and all lock settings will be retained.

 If all locks are turned off and you exit the menus when prompted for a new code, then the previous code will be erased.

Bypassing TV Locks

- If you try to watch a blocked program or channel or the TV is locked by time, a notice will appear prompting you for a pass code. To use the TV, input your four-digit pass code and press ENTER.
- To reactivate the locks after using a pass code, power the TV off and then on.
- If a program is blocked, you can still use the TV without entering a pass code. Change to a channel airing an allowed program or change to another device.
- If you forget your pass code, you can view the locked TV without entering your pass code. When prompted for the pass code, press the number 9 and LAST keys on the TV remote control at the same time. This process temporarily unlocks the TV.

IMPORTANT

When changing or deleting your pass code, you must use the remote control included with this TV. You cannot use a Mitsubishi remote control from another component or a "universal" remote.



Lock, continued

Lock

Parental





740 and 840 Series, U.S. Only

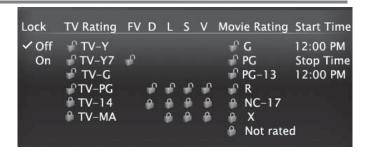
Lock

Disables or enables blocking based on V-Chip signals and the U.S. rating system.

TV Rating

Highlight the rating level you wish to change and press **ENTER** to block it () or allow it ().

You can apply supplemental content blocking to the age-based ratings by using the TV content categories. (FV, D, L, S, V)



Movie Rating

Highlight the rating level you wish to change and press ENTER to block it () or allow it ().

Start Time/ Stop Time

Sets the time of day for enforcement of rating restrictions chosen in the *Parental* menu. The TV clock must be set in the *Setup > Clock* menu before you can use *Start Time/Stop Time*. To make rating restrictions active 24 hours a day, set *Start Time* and *Stop Time* the same.

- **1.** Highlight the start time or stop time.
- 2. Press ENTER to start editing.
- 3. Press ▲ ▼ to make changes.
- 4. Press ENTER to confirm changes.

	Program	9
	TV-Y	Youth. For children under 7.
ings	TV-Y7	Youth 7 and older.
Rati	TV-G	General Audience. For the entire family.
TV Age-Based Ratings	TV-PG	Parental Guidance. Parental Guidance recommended; may not be suitable for some children.
V Age	TV-14	Adolescent 14 and older. Not recommended for children under 14.
	TV-MA	Mature Audience. For adults only.
S	FV	Fantasy Violence. Applies to TV-Y7 only.
egorie	D	Sexual Dialog. Applies in differing degrees to TV-PG and TV-14.
nt Categorie	D L	
TV Content Categories		degrees to TV-PG and TV-14. Adult Language. Applies in differing

G	General Audience. Designed for the entire family.
PG	Parental Guidance. Parental Guidance recommended; may not be suitable for some children.
PG-13	Parental Guidance, 13 and Older. Not recommended for children under 13.
R	Restricted. Restricted in theaters to 17 years old and older unless accompanied by an adult.
NC-17	No Children 17 or Under. Restricted in theaters to 18 years old and older.
Х	Adult. Designed for and restricted in theaters to adult audiences only.
Not Rated	No MPAA rating assigned



Lock, continued

Lock

Time





Blocks all use of the TV during the time period you specify. You must enter a pass code to use the TV when the time lock is in effect. After releasing the lock with the pass code, the lock does not go back into effect until the next time the TV is powered on.

Lock by Time Enables/disables Lock by Time.

Lock Time, Unlock Time

To set the lock and unlock times:

- **1.** Highlight the lock or unlock time.
- 2. Press ENTER to start editing.
- 3. Press ▲ ▼ to make changes.
- 4. Press ENTER to confirm changes.

Note: To make Lock by Time active 24 hours a day, set **Start Time** and **Stop Time** the same.

Lock

Channel







The **Channel Lock** menu lists channels currently in memory (see page 25). Highlight a channel and press **ENTER** to lock () or allow () the channel. Channels locks will be cleared the next time you perform a channel scan.

Lock

Panel







Off. On

On locks and **Off** unlocks the buttons on the TV's control panel. Use this option if small children try to press TV buttons.

- To release the Panel Lock from the TV's control panel, press and hold the **INPUT** button for ten seconds. If the TV is powered off, press **POWER** after the lock releases to make the TV power on.
- To reactivate the lock, return to this menu and change the setting to **On**.

Lock



Other



This TV can recognize new rating systems that may come into effect in the future. Such alternate rating systems will apply only to digital programming received on the **ANT** input.

Lock

On, Off

Enables/disables program blocking.

System

The rating system available for the channel

Group

Rating groups available in the rating system shown on the screen. Rating groups are defined by the rating system in effect.

Rating

Rating restrictions available in the selected rating system and group. Highlight the rating and press **ENTER** to check (block) or uncheck (allow) rated content.

3

HDMI Control of CEC Devices

Many newer HDMI devices have a feature called Consumer Electronics Control (CEC) or HDMI Control. HDMI Control allows one device, such as the TV, to control other devices, such as an A/V receiver or disc player. Use of CEC is optional.

Each manufacturer chooses which CEC functions to support so it is difficult to predict which devices and features are compatible with Mitsubishi's HDMI Control. You may find that CEC functions for a specific device are limited.

To use HDMI Control, you must enable it in both the TV and the device.

- In the TV. Enable HDMI control from the New Device Found screen or from the Inputs > HDMI Control menu.
- In the Device. Most devices with HDMI CEC compatibility let you turn it on or off in the device menus, where it is typically listed as "HDMI Control."

Enabling HDMI Control of CEC Devices

To ensure proper detection

- Power on HDMI devices before connecting them to the TV.
- Connect and set up HDMI devices one at a time.
- Power on the device and allow it to complete the power-on sequence (boot up). Stop any playback.
- 2. Connect the device to one of the TV's HDMI inputs.
- When the TV detects the connection, the New Device Found screen will appear.

Note: See "If the New Device Found Screen Has No HDMI Control Option" on this page if an HDMI Control option is not offered.



New Device Found screen with HDMI Control option. This screen displays only if the device's HDMI Control is enabled.

- 4. If prompted for a name, highlight a name for the device and press ENTER to add a check. The device itself may later override the name you assign.
- 5. Highlight On and press ENTER to add a check.





7. Highlight **EXIT** and press **ENTER** to close the **New Device Found** screen.

Note: At any time after completing Auto Input Sensing, you can set the TV's HDMI control on or off in the *Inputs* > *HDMI* Control menu.

If the New Device Found Screen Has No HDMI Control Option

If the **New Device Found** screen shows no option for HDMI Control, one of these conditions applies:

 HDMI Control is turned off in the menus of the new device

Action:

- a. Highlight EXIT and press ENTER to close the New Device Found screen.
- **b.** Display the device's setup menus and enable the device's CEC capabilities.
- **c.** Wait for the TV's **New Device Found** screen to appear again.
- d. If the New Device Found screen does not appear, power off the device. Power on the device and wait for the New Device Found screen to display with the HDMI Control option.
- The HDMI cable cannot support CEC
 Action:

Upgrade your HDMI cable to one that supports CEC.

 The device does not have CEC compatibility Action:

Control the device with its own remote control or program the TV's remote control to operate the device.

HDMI Control of an HDMI A/V Receiver and Connected Devices

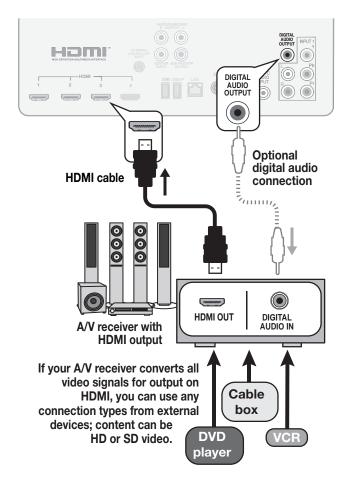
- Enable HDMI Control for the A/V receiver as described in "Enabling HDMI Control of CEC Devices" on the previous page.
- 2. Power on the HDMI device you wish to connect to the A/V receiver (such as a disc player, cable box, or satellite receiver). Allow the device to complete the power-on sequence (boot up). Stop playback if the device starts playing.
- 3. Select the device's HDMI input on the A/V receiver's front panel controls or remote control.
- Connect the device to the A/V receiver with an HDMI cable.
- **5.** When the TV detects the connection, the **New Device Found** screen will appear.

Note: If the TV is unable to detect the device, either the device's CEC capability is not enabled or the device is not CEC compatible. Enable HDMI control through the device's menus before continuing. You may need to temporarily connect the device directly to the TV to view device menus.

6. Highlight **On** and press **ENTER** to add a check.



- Highlight EXIT and press ENTER to close the New Device Found screen.
- 8. Optional: Connect the TV's DIGITAL AUDIO OUTPUT to an input on the A/V receiver. Use this additional connection if:
 - You want the ability to switch between the A/V receiver speakers and the TV speakers.
 - You want to use the A/V receiver to listen to devices connected to the TV only, e.g., an antenna input or camcorder.



Connecting HDMI devices. The optional digital audio connection allows you to hear audio through the A/V receiver from devices connected to the TV only.

To hear audio from a device without HDMI Control, you must manually select the correct A/V receiver input for the device.

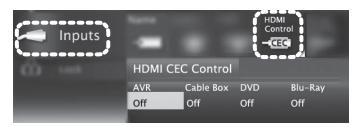
Resolving CEC Conflicts

Because each manufacturer selects which CEC functions to support, some devices may conflict with other devices. If control conflicts arise, you can:

- Turn off TV control of an individual CEC-enabled device (see below).
- Turn off CEC in the device itself. Refer to the device's Owner's Guide for instructions.

Turning Off the TV's HDMI Control of a CEC Device

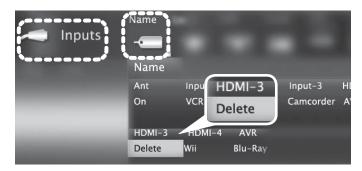
- 1. Press **MENU** on the TV remote control.
- 2. Highlight Inputs > HDMI Control.
- Move to the device name and press ENTER to select Off to turn off the TV's ability to control the device.
- 4. Press EXIT to clear the menu.



Inputs > HDMI Control menu

Removing an HDMI Device

- 1. Power off the device.
- 2. Disconnect the HDMI cable.
- **3.** Press **MENU** on the TV remote control to enter the TV main menu.
- 4. Go to Inputs > Name.
- Highlight the HDMI input name and press ENTER to select Delete.
- 6. Press **EXIT** to clear the menus.



Inputs > Name menu with **Delete** selected for HDMI-3.

Using HDMI Control

As an example of using HDMI Control, press **PLAY** on the device itself to:

- Power on the TV
- Switch to the device (no need to display the Input Selection menu)
- Begin play of the device

Direct Keys

Test your equipment with the TV's remote control to find additional supported commands. See the table below for commands that may be available, depending on the individual device.

CEC-enabled VCR, DVD, and DVR functions that may be available:

Record/ Playback	Menu Navigation	Channel Tuning	Other
	$\blacktriangleleft \blacktriangleright \blacktriangle \blacktriangledown$	СН	GUIDE
• •	ENTER	Digits 0-9, CANCEL	T00LS Check the
(4)	CANCEL (to cancel)	ENTER	TOOLS menu for supported functions.

If you have a CEC-enabled A/V receiver, CEC-enabled devices connected to the A/V receiver with an HDMI cable may also be controllable. They can be selected from the TV's *Input Selection* menu.

CEC-enabled A/V receiver functions. Try the **VOL**, **MUTE**, and menu-navigation keys.

Appendix A: TV Care

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.

Occasionally clean dust 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 or 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.

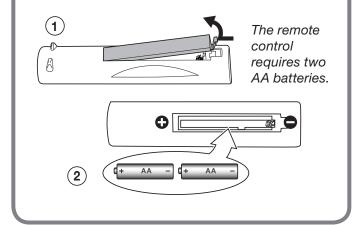
Low-Battery Indicator

If you press a key and the mode indicator blinks five times, replace the remote control's batteries.

Installing the Remote Control Batteries

- Remove the remote control's back cover by gently pressing in the tab and lifting off the cover.
- Load the batteries, making sure the polarities

 (+) and (-) are correct. For best results, insert the negative (-) end first.
- 3. Snap the cover back in place.



Appendices 37

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.

4

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 915B455011.

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 setting **Lamp Energy** to **Bright** and turning the television on and off frequently.

Mitsubishi warrants the lamp for one (1) year from the date of original TV purchase at retail.

The lamp cartridge assembly is designed to be replaced by the TV owner. The cost of labor for a service technician to replace the lamp is not covered by the warranty.

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.

Ordering a New Lamp

To Receive a Replacement Lamp Cartridge Assembly Under Warranty

- Visit our website at www.mitsuparts.com.
- Call (800) 553-7278. Please have model number, serial number, and TV purchase date available.

To Purchase a Replacement Lamp Cartridge Assembly After Warranty

Visit our website at www.mitsuparts.com or call (800) 553-7278. Order the following:

Lamp Part Number 915B455011

Lamp-Substitution Alert

MEVSA recommends that you use only genuine Replacement Lamp Assemblies purchased directly from Mitsubishi or a Mitsubishi Authorized Dealer or Mitsubishi Authorized Service Center. MEVSA 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. MEVSA 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.



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**

Appendix A: TV Care

Replacement Procedure

Removing the Old Lamp Cartridge

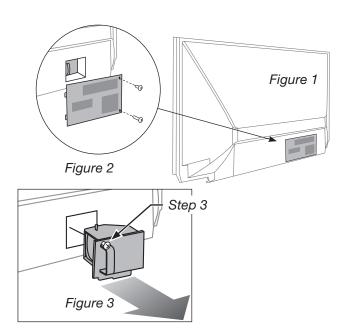
- Turn off TV power and unplug the TV. Allow the lamp to cool for at least one hour before proceeding.
- After the lamp has cooled, remove the cover of the lamp compartment, located on the back of the TV.
 Refer to figures 1 and 2. Use a medium Phillips screwdriver to loosen the screws securing the cover.
 - Keep the screws and cover for re-installation
- 3. With a medium Phillips screwdriver, loosen the screw securing the lamp cartridge until it disengage from the mating threads. This is a captive screw and cannot be separated from the lamp cartridge.
- **4.** Fully open the bag supplied with the replacement lamp and set the opened bag aside.
- **5.** 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.

6. 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.

Installing the New Lamp Cartridge

- 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 lamp screw with the screwdriver. AVOID OVERTIGHTENING!
- **3.** Replace the plastic cover and retaining screws.
- **4.** WASH YOUR HANDS THOROUGHLY, AS THIS LAMP CONTAINS MERCURY.



Use only replacement lamp part number 915B455011.

Disposal of the Old Lamp Cartridge

Contact your local authorities or the Electronic Industries Alliance at www.eiae.org for lamp-disposal or recycling instructions. Do not dispose of the old lamp with common trash.

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Appendix B: Troubleshooting

Ge	eneral TV Operation		
	Symptom	Remarks	
1.	The TV remote control does not work.	 Check that the batteries are fresh and installed correctly. Be no more than 20 feet from the TV when using the remote control. If using an external 3D emitter, try pointing the emitter in a different direction or disconnect the emitter. There may be interference from the TV's internal IR emitters for 3D glasses. Turn off the emitters in the <i>Picture > 3D Mode</i> menu. 	
2.	When I try to use the remote control, the POWER key blinks five times.	Replace the batteries.	
3.	TV does not respond to the remote control or to control-panel buttons and TV will not power on or off.	 Unplug the AC power cord for 10 seconds. Press and hold the POWER button on the control panel for ten seconds to perform system reset. 	
4.	When a device is selected from the <i>Input Selection</i> menu, the screen is blue or black (no signal source).	 Make sure the selected device is turned on. Check connections to the device. Begin play of the device. 	
5.	You have forgotten your Lock menu pass code.	See "Bypassing TV Locks," page 30,	
6.	Rating restrictions are not working.	 Open the Lock > Parental menu and: Verify that the ratings locks are active. Check the Lock Time/Unlock Time to check if rating restrictions are disabled. Rating restrictions apply only to content on the ANT input and composite Y/VIDEO inputs. 	
7.	On-screen displays appear each time you change a function.	Normal TV operation.	
8.	A warning message appeared on screen stating, "TV will shut down in a few seconds. Please check if the air flow is blocked."	 Internal TV temperature has exceeded proper levels. Cool the room. The TV has overheated. Clear blocked air vents and ensure at least four inches of clearance on all sides of the TV. 	

Service and Customer Support

Service

If you are unable to correct a problem with your TV, consult Mitsubishi Consumer Relations at 1 (800) 332-2119.

- DO NOT adjust any controls other than those described in this Owner's Guide and the on-line supplemental Owner's Guide.
- DO NOT remove the protective back cover of your TV.

Customer Support

- To order replacement or additional remote controls, visit our website at www.mitsuparts.com or call 1 (800) 553-7278.
- For questions:
 - Call Consumer Relations at 1 (800) 332-2119.
 - E-mail: TVsupport@mevsa.com
 - Website: www.mitsubishi-tv.com

Appendix B: Troubleshooting, continued

General TV Operation			
	Symptom	Remarks	
9.	I have turned on CEC for my HDMI devices but control is erratic and I wish to disable it.	 First turn off the TV's HDMI control for the specific device. Open the <i>Inputs > HDMI Control</i> menu, select the device, select Off. Disable CEC on the device itself. See the device's instructions. If the problem persists, do the following: Disconnect the device from the TV. Open the <i>Inputs > Name</i> menu and select Delete for the device. Reconnect the device to the TV and Auto Input Sensing will recognize the device with CEC disabled. 	

TV	TV Channels		
Symptom		Remarks	
1.	The TV takes several seconds to respond to channel changes.	 It is normal for digital channels to take longer to tune in. Press ENTER after entering a channel number to minimize delays. Use a 4-digit number for an over-the-air digital channel. Use a 6-digit number for digital cable channels if your cable service is able to recognize 6-digit channel numbers. 	
2.	You cannot access a channel.	 Use number keys instead of CH. Be sure the channel you want to view is in memory. Check that the TV is switched to the correct device or antenna for that channel by pressing the INPUT key. Make sure the Lock > Parental menu lock is set to Off. If you cannot tune to a virtual digital channel even though the TV has already memorized digital channels, tune to the physical channel number used by the broadcaster. The virtual channel will then be automatically added to memory. You may be trying to tune to an analog channel that is no longer broadcasting. 	
3.	When ChannelView list is displayed, information appears incomplete	 Press INFO to update the display for the highlighted channel. Program information is displayed only for the currently tuned channel. Available information is sent from the broadcaster or cable provider. No other data is available. Make sure the TV clock is set correctly. 	

Appendix B: Troubleshooting, continued

TV Power On/Off			
	Symptom	Remarks	
1.	TV takes an excessively long time to power on.	When powered on, the TV needs time to boot up, just as a computer does.	
2.	You cannot program the TV to turn on automatically (Timer function)	The TV may be locked.The clock may not be set.	
3.	TV turned itself off and the light on the front panel started to blink.	 Momentary power fluctuation can cause 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 ten seconds to perform System Reset. If this happens frequently, obtain an AC line power conditioner/surge protector. An unusual digital signal may have been received, triggering a protection circuit. Wait for the light to stop flashing and turn TV on. 	
4.	TV will not power off.	Press the POWER key on the control panel for ten seconds to perform System Reset.	

Pic	Picture		
	Symptom	Remarks	
1.	Picture does not look like a high-definition picture.	Not all signals are high-definition signals. To receive high-definition programming from your cable or satellite provider, you must subscribe to the provider's high-definition service. Some overthe-air broadcasts are in high-definition and can be received with a high-quality antenna suited to your location.	
2.	TV has sound but no picture.	 Press MENU on the remote control. If the menu displays, then there is a problem with the incoming signal. Check that all video inputs are plugged in firmly. Press and hold the POWER button on the control panel for ten seconds to perform System Reset. 	
3.	Picture has become dimmer.	 The lamp is nearing the end of its life. Order a new lamp. Adjust picture brightness and contrast to maximum levels. Change Lamp Energy from Standard to Bright. 	
4.	You cannot view a picture when playing a VHS tape.	Check your VCR's owner's guide for further troubleshooting.	
5.	VCR or DVD player's on-screen menus jitter up and down.	Stop playback. Possible cause: Many VCRs and DVD players provide on-screen menus at only half-resolution that may appear to jitter up and down.	
6.	When viewing a stopped VCR, white lines are rolling on the screen.	 Turn off video mute for the VCR. Begin playing the tape. Change the VCR input from Line 1 to the VCR antenna input. 	
7.	A color program appears as a black and white image, or the colors are dim, or the screen is black.	840 Series. The PerfectColor color balance has been incorrectly set. Reset the PerfectColor balance.	
8.	Picture from an HDMI input is noisy (poor quality).	Upgrade a standard (unmarked) HDMI cable to a high-speed HDMI cable.	
9.	The image from a computer appears distorted when viewed on the TV.	 Normal TV operation. The TV does not correct distortion in the picture from a computer because the correction process may cut off the edges of the image. The aspect ratio may be wrong for the image. Press FORMAT to change. 	

For assistance call 1(800) 332-2119

Appendix B: Troubleshooting, continued

Sound		
	Symptom	Remarks
1.	There is no sound even when the volume is turned up.	 Check if the MUTE key is on. The TV's analog Listen to setting may be set to SAP (analog program from the ANT input) but no SAP is being broadcast. Check that the Sound > Audio > TV Speakers option is set to On to hear sound from the TV speakers. Possibly the TV Speakers option is Off. If using an A/V receiver, check that the Sound > Audio > TV Speakers option is set to Off to hear sound from the A/V receiver speakers. Press and hold the POWER button on the control panel for 10 seconds to perform System Reset. The language selected in the Setup > Antenna Digital Audio menu is not being broadcast for the current program.
2.	The sound does not match the screen picture.	The TV's analog Listen to setting may be set to SAP (analog program from the ANT input).
3.	The sound from my A/V receiver does not match the screen picture (I should hear the correct audio from my A/V receiver).	 Check that DIGITAL AUDIO OUTPUT and/or AVR AUDIO OUTPUT on TV's connection panel is connected to the A/V receiver. Without this connection, devices connected only to the TV (and not the A/V receiver) can be heard only from the TV speakers. Note that this includes the ANT input, a device (such as a camcorder) connected to the TV, and any other device sending audio to the TV only. Make sure the A/V receiver is set to the correct input.
4.	Cannot select an audio-only device; it does not appear in the <i>Input Selection</i> menu.	Plug an unused video plug into the Y/VIDEO jack to activate Auto Input Sensing. Assign the name CD/Audio or MP3 to make the audio device selectable in the <i>Input Selection</i> menu.
5	Sound is coming from the TV speakers instead of the A/V receiver.	 Connect the TV's audio output to the A/V receiver. Change TV Speakers setting to Off.

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MITSUBISHI ELECTRIC VISUAL SOLUTIONS AMERICA, INC. 9351 Jeronimo Road Irvine, CA 92618 www.Mitsubishi-tv.com

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MEVSA Internet Applications afford the opportunity to access third party Internet product offerings or services ("Third Party Services") on certain Mitsubishi TVs. The Third Party Services accessible herein are provided as per our agreement with these third parties. These agreements are subject to change, interruption, suspension (including termination) at any time and for various reasons. MEVSA makes no warranties or representations that any particular Third Party Service will be accessible, available, function in any particular manner or function at all.

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For questions, call Consumer Relations at 1 (800) 332-2119

To order replacement or additional remote controls or lamp cartridges,

Visit our website www.mitsuparts.com

or call

800-553-7278

Lamp-Substitution Alert

MEVSA recommends that you use only genuine Replacement Lamp Assemblies purchased directly from Mitsubishi or a Mitsubishi Authorized Dealer or Mitsubishi Authorized Service Center. MEVSA 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. MEVSA can not be responsible for the performance, reliability or safety of any replacement lamps that are obtained from unauthorized sources.

SYSTEM RESET

If the TV does not respond to the remote control, control-panel buttons, or will not power on/off, press and hold the **POWER** button on the control panel for ten seconds.

The TV will turn off. Power on the TV and the green LED will flash quickly for about one minute. Recent settings changes may be lost.