

HOME THEATER TELEVISION

MODELS

C9 Series 737 Series 837 Series

OWNER'S GUIDE

- Guidelines for setting up and using your new widescreen TV start on page 7.
- For questions:
 - Visit our website at www.mitsubishi-tv.com.
 - E-mail us at MDEAservice@mdea.com.
 - Call Consumer Relations at 800-332-2119.
- For information on System Reset, please see the back cover.
- To order replacement or additional remote controls or lamp cartridges, visit our website at www.mitsuparts.com or call 800-553-7278.
- 837 Series. IR emitter cables for NetCommand home-theater control are available for purchase from Mitsubishi. Call 800-553-7278 and request either part number 242D483020 (two-ended cable) or part number 299P254020 (four-ended cable).















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 "dangerous voltage" within the product's

enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

WARNING: This product shall be connected to a MAINS socket outlet with a protective earthing connection.

MAINS DISCONNECTION: The mains plug is used as the disconnect device. The disconnect device shall remain readily operable.

Stand Requirement

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

TV Model	Stand Model
WD-60C9, WD-65C9 WD-60737, WD-65737	MB-S60/65A
WD-65837	
WD-73C9	
WD-73737	MB-S73A
WD-73837	

82-inch TVs: Mitsubishi does not design, manufacture, or sell matching bases for 82-inch televisions (WD-82737, WD-82837). 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 total weight as well as the weight of any additional equipment you plan to store.

TV WEIGHT: This TV is heavy. Exercise extreme care when lifting or moving it. Lift or move the TV with a minimum of two adults. To prevent damage to the TV, avoid jarring or moving it while it is turned on. Always power off your TV, unplug the power cord, and disconnect all cables before moving it.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

FCC Declaration of Conformity

Product: Projection Television Receiver
Models: WD-60C9, WD-65C9, WD-73C9

WD-60737, WD-65737, WD-73737,

WD-82737

WD-65837, WD-73837, WD-82837

Responsible Mitsubishi Digital Electronics

Party: America, Inc.

9351 Jeronimo Road Irvine, CA 92618-1904

Telephone: (800) 332-2119

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 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.

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

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

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Important Information About Your TV

For Your Records

Record the model number, serial number, and purchase date of your TV. The model and serial numbers are on the back of the TV. Refer to this page when requesting assistance with the TV.

MODEL NUMBER	
SERIAL NUMBER	
PURCHASE DATE	
RETAILER NAME	
LOCATION	

Installation and Operating Notes

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

NOTE TO CATV SYSTEM INSTALLER: THIS REMINDER IS PROVIDED TO CALL THE CATV SYSTEM INSTALLER'S ATTENTION TO ARTICLE 820-40 OF THE NEC THAT PROVIDES GUIDELINES FOR THE PROPER GROUNDING AND, IN PARTICULAR, SPECIFIES THAT THE CABLE GROUND SHALL BE CONNECTED TO THE GROUNDING SYSTEM OF THE BUILDING, AS CLOSE TO THE POINT OF CABLE ENTRY AS PRACTICAL.

Internal Fans

Internal cooling fans maintain proper operating temperatures inside the TV. It is normal to hear the fans when you first turn on the TV, during quiet scenes while viewing the TV, and for a short time after shutting off the TV. You may notice louder fan noise about 30 seconds after shutting off the TV and while using the **Bright** Lamp Mode.

Lamp Replacement

For lamp-replacement instructions, see Appendix D.

To Order a Replacement Lamp Under WarrantyCall (800) 553-7278. Please have model number, serial number, and TV purchase date available.

Important: All lamps replaced under warranty must be returned to Mitsubishi where they will be inspected for defect verification.

To Purchase a Replacement Lamp After Warranty Visit our website at www.mitsuparts.com or call (800) 553-7278. Order new lamp part number 915B403001

TV Software

Do not attempt to update the software of this TV with software or USB drives not provided by or authorized by Mitsubishi Digital Electronics America, Inc. Non-authorized software may damage the TV and will not be covered by the warranty.

Important Safety Instructions

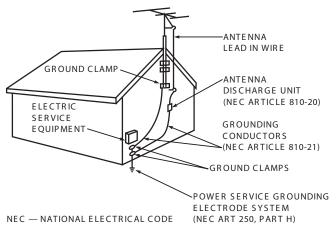
Please read the following safeguards for your TV and retain for future reference. Always follow all warnings and instructions marked on the television.

- Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 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.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 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.

Special Features of Your TV

Your new high-definition widescreen television has many special features that make it the perfect center of your home entertainment system, including:

1080p High-Definition DLP Display System

Your Mitsubishi HDTV uses Texas Instruments Digital Light Processing™ technology for rear-projection TVs to create the picture you see on screen. All images are displayed at 1080p. The TV uses Plush 1080p® 5G to convert lower-resolution signals to 1080p for display. The TV can also accept 1080p original signals and maintain them at 1080p through all processing until displayed.

3D Ready

All Mitsubishi 1080p DLP HDTV's are 3D Ready. This feature lets you experience the new 3D technologies applied to many recent movies and video games. Immerse yourself in your favorite video game, movie, or sporting event displayed in 3D.

16:9 Widescreen Picture Format

Enjoy a full theatrical experience in the comfort of your home. View pictures as film directors intended them. Digital TV broadcasts, DVDs and newer video game consoles support this widescreen format.

Integrated HDTV Tuner

Your widescreen Mitsubishi HDTV has an internal HDTV tuner able to receive both over-the-air HDTV broadcasts (received via an antenna) and non-scrambled digital cable broadcasts, including non-scrambled HDTV cable programming.

High-Definition Video Inputs

- Component Video Inputs. Also called Y/Pb/Pr inputs, these inputs receive standard analog video formats of 480i, 480p, 720p, and 1080i high-definition signals. This provides a high level of flexibility when connecting DVD players/recorders, cable boxes, and satellite receivers.
- HDMI Inputs. These inputs accept digital 480i, 480p, 720p, 1080i, and 1080p video signals plus PCM digital stereo signals. The HDMI™ inputs can also accept a variety of PC signals and resolutions.

These inputs support HDMI 1.3 Deep Color (up to 36 bits) and the **x.v.Color** extended color gamut. Used with an adapter, these HDMI inputs also accept compatible digital DVI video signals. HDMI inputs provide additional high-performance, high-definition connections for maximum flexibility in your choice of home theater products. The HDMI inputs are HDCP copy-protection compatible.

Easy Connect Auto Input Sensing

Easy Connect™ Auto Input Sensing automatically recognizes when you plug in a device and prompts you to assign a name to it. The TV ignores any unused inputs, so the result is an uncluttered menu where you can easily find and select connected devices by name.

Home-Theater Control

HDMI Control

Available for all models. HDMI devices with Consumer Electronics Control (CEC) capabilities may be compatible with the TV's HDMI Control feature. Compatible devices can receive control signals through the HDMI connection, allowing the TV's remote control to operate some functions of these devices.

NetCommand with IR Learning

837 Series. Your Mitsubishi HDTV offers a new level of networking that seamlessly integrates selected older A/V products with new and future digital products. NetCommand[®] supports IR (infrared) control of products such as VCRs, DVD players, cable boxes, and satellite receivers. NetCommand can "learn" remote control signals directly from many devices, allowing you to create a customized NetCommand-controlled hometheater system. The necessary IR emitter cables are available for purchase separately from Mitsubishi.

ENERGY STAR®

This is an ENERGY STAR® qualified TV. Products that earn the ENERGY STAR prevent greenhouse gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy.

1

Basic Setup and Operation

Package Contents

Please take a moment to review the following list of items to ensure that you have received everything.

- 1. Remote Control
- 2. Two AA Batteries
- 3. Basic Owner's Guide
- 4. HDTV Quick-Setup Guide
- 5. Product Registration Card





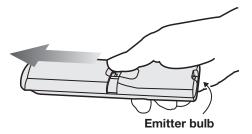




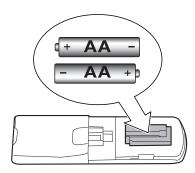


Remote Control Batteries

1. Remove the remote control back cover.



2. Load the batteries, making sure the polarities (+) and (-) are correct. Insert the negative (-) end first.



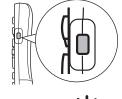
3. Slide the cover back into place.

Before You Begin

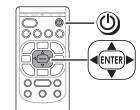
- **1.** Review the important safety, installation, and operating information at the beginning of this book.
- 2. Choose a location for your TV.
 - Allow at least four inches of space on all sides of the TV to help prevent overheating. Overheating may cause premature failure of the TV as well as shortened lamp life.
 - Avoid locations where light may reflect off the screen.
 - See the stand requirements on page 2.
- Install the batteries in the remote control.
- 4. Plug the TV into an AC power outlet.

First-Time Power-On

- **1.** Confirm that the remote control is in **TV** mode.
 - Press the side button once to light the mode indicator and confirm that TV mode is active.
 - To change, press the side button additional times to activate TV mode.
- 2. Aim the remote control at the TV and press the POWER key Wait for the Welcome screen.







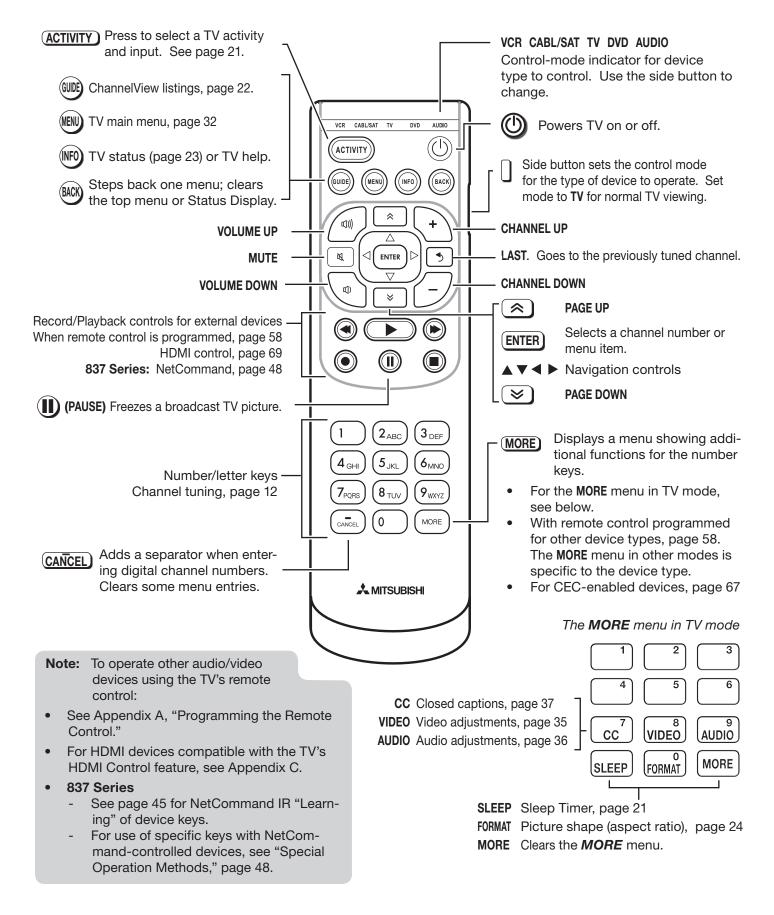
- Press ▼ if you wish to change the menu language to Español.
- 4. Press ► to highlight EXIT. Press ENTER to clear the menu.





TV Controls

Remote Control

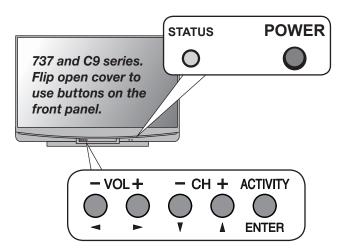


TV Controls, continued

TV Control Panel

Buttons on the control panel duplicate some keys on the remote control.

- Refer to upper labels when no TV menus are displayed.
- Refer to *lower labels* when using TV menus or after activating a special function.



Controls on 737 and C9 series TVs. 837 series controls are similar and are located next to the **STATUS** indicator.

System Reset

If the TV fails to respond to the remote control, the control-panel buttons, or will not power on/off, perform System Reset. Recent setting changes made before using System Reset may be lost.

To perform System Reset, press and hold the **POWER** button on the control panel for ten seconds.

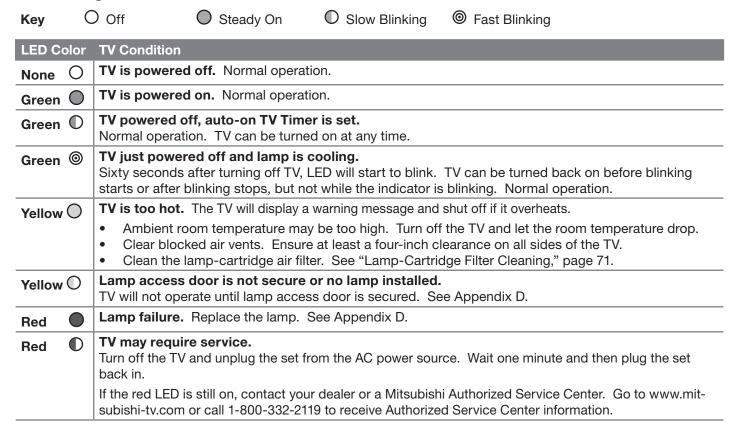
Panel-Lock Release

- To release the Panel Lock using the TV control panel, press and hold the ACTIVITY button on the control panel for ten seconds. If the TV is off, press the POWER button to have it power on.
- To activate the Panel Lock, use the **Lock** menu, page 44.

If You Power Off the TV by Mistake

- 1. Press **POWER** again, within about 60 seconds, to have the TV come back on immediately.
- 2. If the status indicator starts rapidly blinking green (about 60 seconds after you shut off power), wait a few moments for the status indicator to stop blinking and press **POWER** to turn the TV on again.

STATUS Light



Setting Up TV Inputs

Using the ANT (Antenna) Input

If using an antenna or direct cable service (no cable box), connect the incoming coaxial cable to the TV's **ANT** input. Refer to page 18.

You must save channels to memory with a channel scan to enable reception of all available high-definition and standard-definition digital channels. The channel scan will search for channels available locally. If you skip this step, the TV will receive only analog channels.

Memorizing Channels with Channel Scan

For the ANT input

To start channel memorization

- 1. Power on the TV.
- 2. Press MENU and open the *Initial* > *Channel* menu.



Start channel memorization from the Initial > Channel menu.

- 3. Press ENTER to enter the menu.
- Select Ant Air if connected to an over-the-air antenna. Select Ant Cable for direct cable.



Highlight Scan and press ENTER.
 Channel memorization may take up to 15 minutes to complete.



To stop channel memorization before completion, press CANCEL.

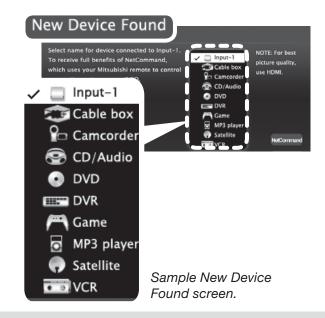
Use the *Initial > Channel > Edit* menu (page 39) for additional channel options, such as adding or deleting channels from memory.

Setting Up Other Inputs

- Connect your devices to the TV, making note of which TV input jack is used for each device. See "TV Connections," page 14, for recommendations.
- Power on the devices to ensure detection.
- 3. Power on the TV.

The TV will display the **New Device Found** screen for each new connection it detects Learn more about Auto Input/Auto Output Sensing on the opposite page.

Select the device type if the device is not recognized automatically.



Important Note for NetCommand IR Users

837 Series. Be sure to select the correct device type here. Although you can change the device type later in the *Inputs* > *Name* menu, any "learned" Net-Command IR codes will be erased when you make the change.

- 5. 837 Series. You can perform NetCommand IR "learning" after selecting the device type or at a later time when convenient. To perform now, highlight NetCommand and press ENTER. See "Initial NetCommand Setup," page 47 or "Setting Up A/V Receiver Control," page 52.
- 6. Press BACK to close the New Device Found screen. The TV will then display the New Device Found screen for the next connection it finds.

Setting Up TV Inputs, continued

About Auto Input Sensing/ Auto Output Sensing

This TV's Easy Connect™ Auto Input Sensing feature detects most connections automatically.

Auto Input/Auto Output Sensing for Most Devices

When you first connect a device, the TV will:

- a. Detect the connected device and automatically switch to it.
- b. Prompt you to identify the device type.
- c. **837 Series.** Prompt you to perform NetCommand set-up for the device, if available.
- d. Repeat these steps for other newly detected devices.

Which Jacks Trigger Auto Sensing?

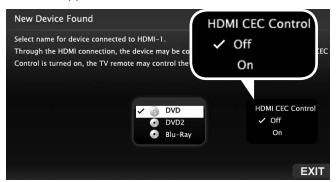
TV Jacks and Auto Sensing	Auto Input Sensing	Auto Output Sensing	No Auto Sensing
Y/VIDEO (detected as composite video)	✓		
Y/VIDEO plus Pb (detected as component video)	√		
HDMI *	✓		
USB (837 series)	✓		
DIGITAL AUDIO OUTPUT (orange jack)		✓	
AVR AUDIO OUTPUT (red jack)		✓	
ANT (Antenna)			√
IR NetCommand Output (837 series)		✓	

★ The TV may not detect an HDMI device when the device is powered off. Detection will occur when the device is next powered on.

When You First Connect a Device

- Most Device Types. Select the device type from the on-screen list. The device type you select here will appear as a device icon in the Activity menu.
- A/V Receiver
 - The TV can detect audio connections on the DIGITAL AUDIO OUTPUT jack and the right (red) AVR AUDIO OUTPUT jack.

- For an HDMI A/V receiver, select AVR from the list of device types if the A/V receiver is not recognized automatically.
- HDMI CEC Devices Compatible with the TV's
 HDMI Control Feature. Compatible CEC enabled HDMI devices are often recognized auto matically by the TV. HDMI Control may allow you
 to control some functions of a CEC-enabled device.
 See Appendix C, "HDMI Control of CEC Devices."



New Device Found screen for a device with HDMI control enabled. Select On to enable the TV's CEC control of the device. In some cases, as in the example above, you will also be prompted to select a device name.

Tips on Auto Sensing

- Choose a different name for each input.
- The antenna input (ANT) is never detected, although you can turn off the unused antenna input in the *Inputs* > *Name* menu.
- Change the device type displayed in the *Activity* menu by using the *Inputs > Name* menu (page 40).
- 837 series. Any "learned" NetCommand IR codes will be erased if you change the device type in the *Inputs* > *Name* menu.

Reactivating Auto Input Sensing for an HDMI Input

When you disconnect an HDMI device, Auto Input Sensing is disabled until you perform these steps.

- 1. Disconnect the HDMI device.
- Delete the removed HDMI device in the *Inputs* > *Name* menu (see "Removing an HDMI Device," page 69).
- **3.** Connect the new device and the **New Device Found** screen will display.

Basic TV Operation

Selecting an Input to Watch

- 1. Press ACTIVITY.
- 2. Press ▼ ▲ and ▶ to highlight an input.
- 3. Press ENTER to switch to the input.

Watching Broadcast TV

TV Connected to an Antenna, Direct Cable, Cable Box, Set-Top Box, or Satellite Receiver

 Select an input to watch from the Activity menu's Watch TV group.

Note: For more about the Activity menu, see page 21.



Activity menu, antenna input selected

- Tune to a channel on the ANT input using any of these methods.
 - Enter the channel number using the number keys on the remote control and press ENTER.
 For a two-part digital channel, such as 3-1, press 3 (CANCEL) 1 to enter a dash (separator).
 - Press CHANNEL UP /CHANNEL DN (+/-) to change channels one channel at a time.
 - Press (LAST) to switch back to the previously tuned channel.
 - Antenna or Direct Cable Only. Press GUIDE to display ChannelView channel listings, highlight a channel number, and press ENTER to tune.

Watching DVDs or Videos

TV Connected to a DVD Player, DVR, or VCR

Press ACTIVITY and select a movie source from the **Activity** menu. If you named devices during Auto Input Sensing, select the input from the **Watch Movie** group.



Activity menu, DVD input selected

TV Tips

Turning the TV On or Off

- Point the remote control at the front of the TV and press the POWER button.
- Press the POWER button on the TV control panel.

If You Turn Off the TV by Mistake

- Press POWER again, within about 60 seconds, to have the TV come back on immediately.
- If the status indicator starts rapidly blinking green (about 60 seconds after you shut off power), wait a few moments for the status indicator to stop blinking and press POWER to turn the TV on again.

Controlling Sound Volume

- Press VOLUME UP/VOLUME DN to adjust the sound level.
- See also "Controlling A/V Receiver Sound Volume" on page 22.

Basic TV Operation, continued

Making Picture Adjustments

- To get the best picture under different viewing conditions, set the Picture Mode before changing other video settings. See page 35 for more.

 - b. Make one of these selections:

Name	When to Use
Brilliant	Under bright light
Game	With gaming consoles
Bright	For most daytime viewing
Natural	For most nighttime viewing

- c. Press MENU to clear the menu.
- 2. Press MORE.
- 3. Press 8 (VIDEO).
- Press ▼ ▲ to display the name of the adjustment you want.
- Press ◀ ▶ to make the adjustment.

Additional picture adjustments are described on pages 33 and 34.

Audio Settings

Changing the Audio Output

To switch audio output from the internal TV speakers to a connected external sound system or headphones:

- 1. Press MORE.
- 2. Press 9 (AUDIO).
- 3. Press ▼ ▲ until the Speakers option is displayed. The Speakers option will display only if a connection has been detected on one of the TV's audio outputs.
- Press ► to switch between TV and either AV Receiver or Headphones.

Changing Audio Settings

- 1. Press MORE.
- 2. Press 9 (AUDIO).
- 3. Press ▼ ▲ to display the name of the adjustment you want.
- **4.** Press **♦** to change the setting.

Other TV Features

- Activate Audio Lock to control your sound system with the TV's remote control left in TV mode. See page 59.
- To set the TV Clock see page 38. Set the TV Clock if you plan to use the TV Timer (page 38) or ChannelView (page 22) features.
- To set parental controls, see the *Lock* menu, page 42.
- To change the input names that appear in the
 Activity menu, see Inputs > Name options, page
 40.
- 3D Video. See page 25.
- To program the remote control to operate other A/V devices, see Appendix A, "Programming the Remote Control," page 58.
- To control compatible devices using HDMI CEC control, see Appendix C, "HDMI Control of CEC Devices," page 67.
- 837 Series. To view still and moving digital camera images on the TV, see "Camera Images and Music Files," page 28.
- 837 Series. To control A/V devices with NetCommand, see chapter 5, "NetCommand IR Control for Most Devices" on (page 45).

Other Information

TV Care

- Lamp Cartridge. When the lamp cartridge needs replacement, replace the lamp yourself and save the cost of a service call. See Appendix D for instructions.
- **General Cleaning.** See "Cleaning Recommendations," page 72.

Assistance

- For troubleshooting, service, and product support, see Appendix E, page 73.
- For warranty information, see the TV warranty on page 84.

2

TV Connections

Before You Begin

Auto Input Sensing

The TV's Auto Input Sensing feature automatically recognizes most connections and prompts you to identify the type of device connected. See page 11 for more on Auto Input Sensing.

Connection Types

Use the connection types available on your input devices that will give the best video quality. For example, choose HDMI over component video, and choose component video over composite video.

Picture Quality

For best picture quality, route signals directly from the input device to the TV whenever possible.

Surround Sound

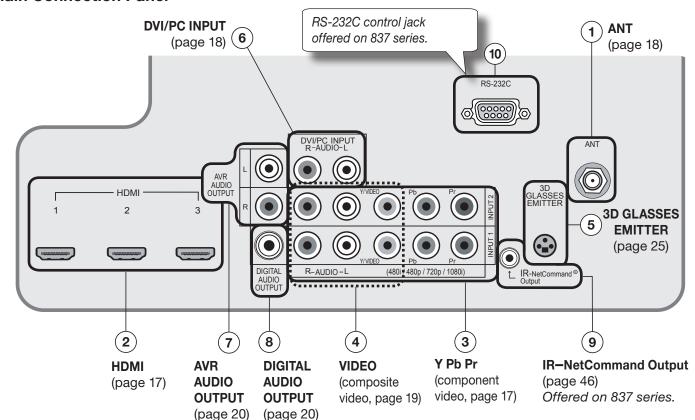
For best surround sound audio quality, route audiosignal cables or HDMI cables from the source device directly to your A/V receiver or sound system.

IMPORTANT

Accessory items such as cables, adapters, splitters, or combiners required for TV connections are not supplied with the TV. These items are available at most electronics stores.

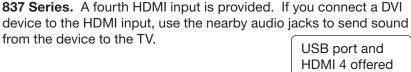
Inputs and Outputs

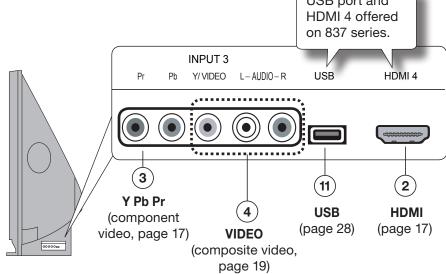
Main Connection Panel

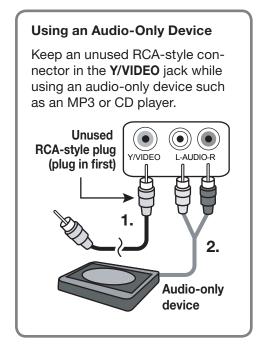


Convenience Inputs

A readily accessible set of jacks is provided for a camcorder, game, or other audio/video device.







Inputs and Outputs, continued

1. ANT (Antenna)

Connect your main antenna or direct cable service (no cable box) to **ANT**. The **ANT** input can receive digital and analog over-the-air channels from a VHF/UHF antenna or non-scrambled digital/analog cable source.

2. HDMI™ Inputs (High-Definition Multimedia Interface)

The HDMI inputs support uncompressed standard and high-definition digital video formats and PCM digital stereo audio.

Mitsubishi recommends you use category 2 HDMI cables, also called high-speed HDMI cables, to connect HDMI 1.3 source devices. High-speed category 2 cables bring you the full benefits of Deep Color and x.v.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 analog audio cables. Connect the analog audio cables to the **DVI/PC INPUT AUDIO** jacks on the TV to receive left and right stereo audio from your DVI device.

Use the HDMI inputs to connect to CEA-861 HDMI compliant devices such as a high-definition receiver or DVD player. These inputs support 480i, 480p, 720p, 1080i, and 1080p video formats.

The TV's HDMI inputs are compatible with many DVI-D and HDMI computer video signals.

These inputs are HDCP (High-Bandwidth Digital Copy Protection) compliant.

HDMI Cable Categories

HDMI cables are available as Category 1 and Category 2 types.

- Category 2 Cables (also called high-speed HDMI cables). Newer, HDMI 1.3-compliant DVD players, video games, and set-top boxes require Category 2 cables, suitable for clock frequencies up to 340 MHz or data rates of up to 10.2 gigabits per second. Use category 2 cables for high-speed 1080p HD signals carrying extended color encodings (i.e., 30 or more bits, also called Deep Color). Category 2 cables are also suitable for standard HDTV signals.
- Category 1 Cables (also called standard HDMI cables). Category 1 cables may be unmarked.
 They are suitable for standard HDTV 720p,
 1080i, and 1080p signals with 8-bit color depth.
 Use category 1 cables for clock frequencies up to 74.25 MHz or data rates of up to 2.23 gigabits per second.

3. Y Pb Pr (Component Video)

Connect devices with component video outputs to this jack. Use the adjacent **AUDIO R** and **L** jacks if you wish to send audio to the TV.

4. VIDEO (Composite Video)

Connect a VCR, DVD player, standard satellite receiver, or other A/V device to the TV. Use the adjacent **AUDIO R** and **L** inputs if you wish to send audio to the TV.

5. 3D GLASSES EMITTER

Use this jack for the special IR emitter supplied with 3D glasses. The emitter will send a signal that synchronizes your 3D glasses with the screen display. See page 25

6. DVI/PC INPUT AUDIO

When connecting a DVI device to one of the TV's HDMI inputs, use these jacks for left and right analog audio.

7. AVR AUDIO OUTPUT

Use **AVR AUDIO OUTPUT** to send analog audio of the current program to an analog A/V surround sound receiver or stereo system. Digital audio from digital channels and HDMI devices is converted to analog audio by the TV for output on this jack. This is the only audio connection needed to the TV if using an analog A/V receiver or stereo system.

Headphones. These jacks can also be used for headphones that accept standard line level audio signals. An adapter may be required.

8. DIGITAL AUDIO OUTPUT

This output sends Dolby Digital or PCM digital audio to your digital A/V surround sound receiver. Incoming analog audio is converted by the TV to PCM digital audio. If you have a digital A/V receiver, in most cases this is the only audio connection needed between the TV and your A/V receiver.

9. IR-NetCommand Output

837 Series. Connect IR emitters to this jack to send control signals to external IR remote-controlled devices.

10. RS-232C

837 Series. Use the RS-232C interface to receive control signals from compatible home-theater control devices. See www.mitsubishi-tv.com for a list of control signals for this interface.

11. USB (837 Series)

The TV can read JPEG photo files and mp3 music files from a USB device connected to the USB port.

Y Pb Pr Component Video Device

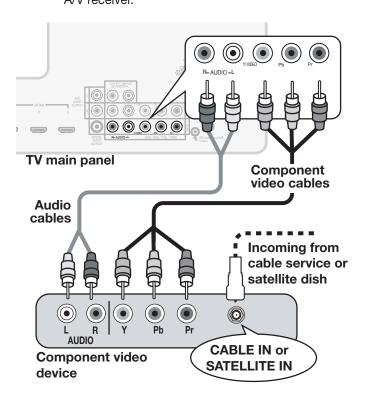
HDTV Cable Box, Satellite Receiver, DVD/Blu-ray Player

If your source device has an HDMI output, use the connections for HDMI devices described on this page instead of component video..

Required:

RCA-type component video cables Left/right analog audio cables.

Note: To hear digital surround sound, connect the digital audio output from the device directly to your digital A/V receiver.



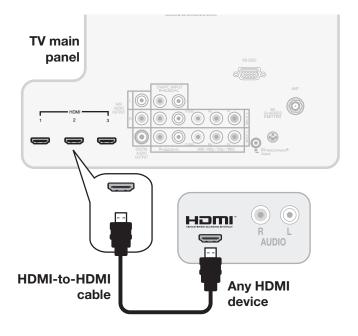
HDMI Device

HDTV Cable Box, Satellite Receiver, DVD/Blu-ray Player

Required: HDMI-to-HDMI cable.

Connect an HDMI cable from the TV back panel to the HDMI device output. HDMI devices provide video and audio through the single cable.

Mitsubishi recommends you use category 2 (high-speed) HDMI cables to connect HDMI 1.3 source devices. High-speed category 2 cables bring you the full benefits of Deep Color and **x.v.Color**. See "HDMI Cable Categories" on the opposite page for more on HDMI cable types.



IMPORTANT

HDMI and Audio Signals

Digital Surround Sound: The TV's HDMI inputs can receive digital stereo audio signals only. To hear digital surround sound from an HDMI device, connect the device's HDMI or digital audio output directly to your A/V receiver. See the Owner's Guides for those devices for instructions.

DVI Video Device

Cable Box, Satellite Receiver, DVD Player

Connect DVI devices (digital only) to the TV's HDMI input jacks.

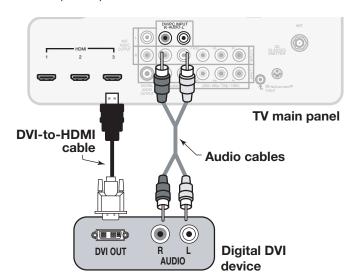
Required:

Analog stereo audio cables
DVI-to-HDMI cable or DVI/HDMI adapter and HDMI

If you are using a DVI/HDMI adapter, it is important to connect the adapter to the DVI device for best performance.

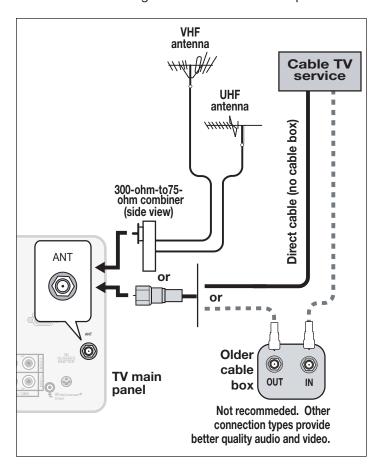
Some devices require connection to an analog input first in order to view on-screen menus and to select DVI as the ouput. Please review your equipment instructions for DVI connectivity and compatibility.

Note: The HDMI connection supports copy protection (HDCP).



Antenna or Cable TV Service

Connect the incoming cable to the TV's ANT input.

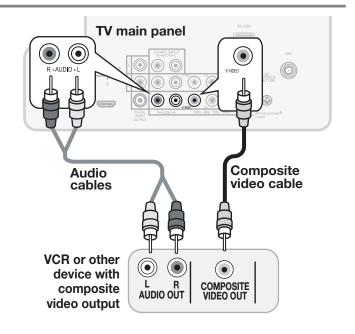


Composite Video Device

VCR or other device with composite video output

Required:

Composite video cable (usually yellow)
Analog stereo audio cables.



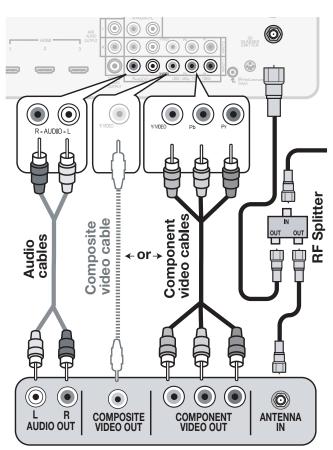
VCR or DVD Recorder to an Antenna or Wall Outlet Cable

Required:

Two-way RF splitter
Two coaxial cables
Right and left analog audio cables
Component or composite video cables

Note:

- Use composite video only if component video or HDMI are unavailable. For an HDMI connection between the TV and recorder, see page 17.
- If your recording device has an analog-only tuner, you must use a digital converter box to enable recording of digital broadcasts.



DVD Recorder or VCR

VCR or DVD Recorder to a Cable Box

Required:

Two-way RF splitter

Three coaxial cables

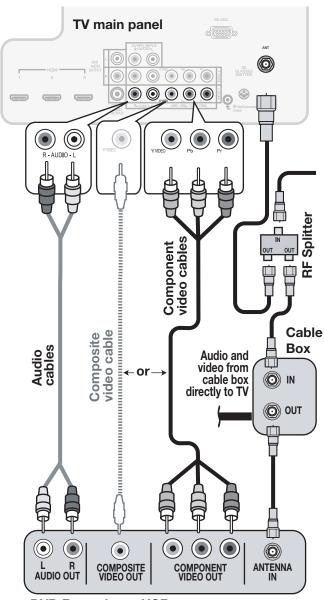
Right and left audio cables

Composite or component video cables

Video and audio cables required to connect the TV to the cable box.

Notes: Use composite video if only if component video or HDMI are unavailable. For an HDMI connection between the TV and recorder, see page 17.

When using this connection configuration, it is possible to view live cable programs through the recording device. For best picture quality always view live cable programs directly from the TV input connected to the cable box device.



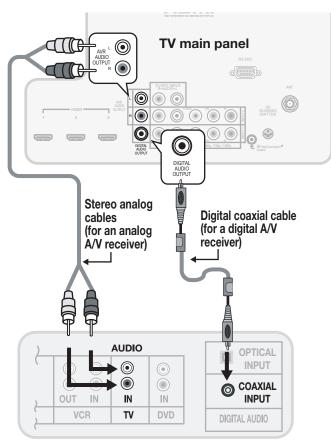
DVD Recorder or VCR

A/V Receiver

Most setups require either a digital audio cable or analog stereo audio cables. To send audio from TV channels received on the **ANT** input or devices connected directly to the TV, you must use one of the connections shown below. Usually, only one of these connections is required.

The TV makes all audio available in digital and analog formats:

- Analog audio coming into the TV is available as output in digital stereo format on the DIGITAL AUDIO OUTPUT jack.
- Digital incoming audio is available as analog output on the AVR AUDIO OUTPUT L and R jacks.



A/V receiver back panel

Note:

- On rare occasions, an HDMI signal may be copy-restricted and cannot be output from the TV as a digital signal. To hear these copyprotected signals through the A/V receiver, use the connection for an analog A/V receiver.
- Check the A/V receiver's Owner's Guide for information concerning use of the digital input and switching between digital sound and analog stereo sound from the TV.

A/V Receiver with HDMI Output

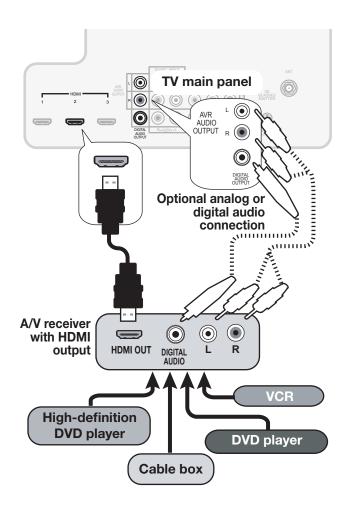
Required: One HDMI-to-HDMI cable

This option allows you to view content from devices connected to an A/V receiver. The A/V receiver can send audio and video to the TV over a single HDMI cable. You can use an HDMI connection as described here in addition to an audio connection from the TV's audio output. The optional audio connection allows you to hear, through the A/V receiver, devices connected to the TV only, e.g., an antenna on the **ANT** input.

You may be able to use the TV's remote control (in TV mode) to operate connected CEC-enabled HDMI devices. Experiment with your equipment to determine which functions are available to the TV's remote control. See Appendix C, page 67.

837 Series: This setup allows you to use NetCommand-controlled audio and video switching over the HDMI cable. See "Case 3: Automatic Audio and Video Switching via HDMI" on page 55.

To use NetCommand to supplement HDMI control of a CEC-enabled A/V receiver, note the recommendations under "More About Using an HDMI Connection," page 55.



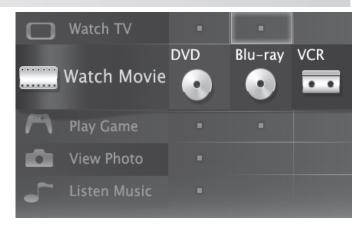
3

Using TV Features

Selecting an Input

The *Activity* menu lets you switch TV inputs. The inputs are organized into groups based on possible ways to use them.

- 1. Press the ACTIVITY key.
- 2. Use ▲ ▼ to move through groups of TV inputs.
- 3. Use **♦** to select an input.
- 4. Press ENTER to switch to the input.
- To change the list of inputs shown in each activity group, see *Inputs > Activity*, page 40.
- To assign or change the names of input icons, use the *Inputs* > *Name* menu, page 40.



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 **Initial > Time**

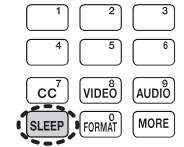
To set the TV to turn on at a certain time of day, see the *Initial > Timer* menu on page 38.

Setting the Sleep Timer

- 1. Press MORE on the remote control. The TV's MORE menu will display.
- **2.** Press **CANCEL** (**SLEEP**) repeatedly to increase the time in 30-minute increments. The maximum is 120 minutes.
- **3.** Press **BACK** or wait five seconds without pressing any keys for the message to disappear.

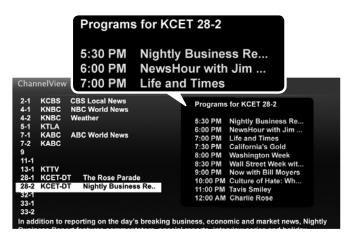
Viewing or Changing the Sleep Timer

- 1. Press MORE.
- 2. Press CANCEL (SLEEP).
- **3.** Press **CANCEL** (**SLEEP**) additional times to change the number of minutes before the TV powers off.



With the MORE menu displayed, press the CANCEL key on the remote control to activate/deactivate the Sleep feature.

ChannelView Channel Listings



ChannelView. Programs for the tuned channel are listed on right side of screen.

ChannelView[™] shows memorized channels on the **ANT** input. It displays channel names and program information for digital channels as sent by broadcasters or your local cable service provider (information may be incomplete). No program information is displayed for analog channels.

Note: You must set the TV Clock (page 38) to receive ChannelView listings for the current channel.

Using ChannelView

Feature	Instructions
Receive updates for a digital channel.	 Press ▲ ▼ to highlight a channel number. Press the INFO key (the screen may briefly go blank).
Display/hide ChannelView listings from the ANT input.	GUIDE
Scan channels one by one.	Hold ▲ or ▼
Scan channels quickly.	Hold PAGE UP/PAGE DN
Jump to listings for a specific channel.	 Enter the channel number. Press ENTER.
See more of the program description for the current channel (if available).	INFO
Tune to the highlighted channel.	ENTER

Redirecting Audio Output

Selecting an Audio Output Device

- 1. Press MORE and then 9 (AUDIO).
- Press ▲ to show the Speakers option. The Speakers option will display only if there is a recognized audio device on an audio or HDMI output.
- Press ► to select either AV Receiver, Headphones, or TV.

Disconnecting an Analog A/V Receiver

When you disconnect an analog A/V receiver, change the **Speakers** setting to **TV** to hear sound from the TV speakers. Change the setting using the remote control's **MORE** > 9 (**AUDIO**) key or the **Adjust** > **Audio** > **Speakers** menu.

Controlling A/V Receiver Sound Volume

Use one of the methods below to control sound volume from an A/V receiver.

With a Standard TV Setup

- Recommended Method: Program the TV's remote control for your A/V receiver and enable the Audio Lock feature. See page 59.
- Program the TV's remote control for your A/V receiver and set the TV remote control's mode to AUDIO. Return the control mode to TV to control the TV.
- Use the remote control that came with the A/V receiver.

With HDMI Control (CEC-Enabled HDMI A/V Receiver)

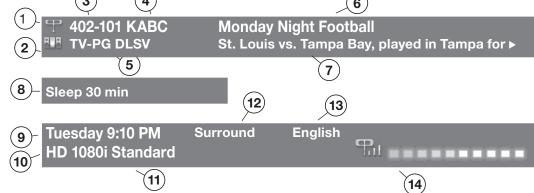
The TV's remote control may control some functions of the A/V receiver. See Appendix C, "HDMI Control of CEC Devices," page 67.

With NetCommand IR Control

837 Series. Set up NetCommand control of the A/V receiver's volume functions in the *Inputs* > *AVR* menu. The TV's remote will then control A/V receiver volume. See page 52.

Status Display

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



Sample information from the on-screen status display

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

Cable Reception Channel 3

Cable 3

Receiving Standard-Definition Analog Signal (480i)

Standard-Definition Digital Channels

Over-the-Air Antenna Reception

480i)Stretch

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

 P Ant

7-1 KABC-HD



Receiving High-Definition Digital Signal (HD)



- 1. Current Input
- 2. Audio Indicator. Key:

TV speakers External sound system

Meadphones Mute

- 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
 - Antenna source only for digital signal
 - Antenna or VIDEO composite jack for analog signal
- 6. Program name (if broadcast); digital 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
- 10. Signal type being received
- 11. Screen format in use
- 12. Program Audio indicator (antenna source only)
 - Digital source: Stereo, Surround
 - Analog source: Stereo, Stereo SAP, SAP
- **13.** Available language (digital source, antenna only)
- **14.** Signal-strength indicator (digital source, antenna only)

TV Signals and Display Formats

This is a 16:9 widescreen TV suitable for images available from HDTV and many DVDs. You can view older-style, squarish images (4:3 aspect ratio) using one of the display formats described on this page. Press the **MORE** key and then the **0** key (**FORMAT**) to cycle through available display formats. The TV remembers the format you last used for each input.

DVD Image Definitions

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

Anamorphic (or Enhanced for WideScreen TV)

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

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

Indicates DVDs recorded for viewing on squarish TV screens. They may be full screen (4:3 or 1.33:1) which crops movies to fit the narrow TV, or letter box, which adds black top and bottom bars.

Signal Definitions

480i: Older type of interlaced signals from the **ANT** input, composite **VIDEO**, component **Y Pb Pr**, or **HDMI** jacks.

480p: Progressive-scan DVD signals on component **Y Pb Pr** or **HDMI** jacks.

720p and 1080i: High-definition signals received through component **Y Pb Pr** or **HDMI** jacks. These signals are always 16:9 (widescreen).

1080p: High-definition signals from a PC or Blu-ray player, HDMI inputs only.

SD 4:3: Standard-definition squarish-screen-format signals from digital channels on the **ANT** input.

SD 16:9: Standard-definition widescreen-format signals from digital channels on the **ANT** input.

HD 16:9: High-definition 16:9 widescreen signals from digital channels on the **ANT** input.

TV Display Format Definitions

Standard: The full-screen format used by HDTV signals. Use this format to display anamorphic DVDs with a 1.78:1 or 1.85:1 aspect ratio. Anamorphic DVDs with a 2.35:1 aspect ratio are displayed correctly but with top and bottom black bars. Squarish (4:3) images are stretched evenly from side to side. Available for all signals.

Expand: Enlarges the picture to fill the screen by cropping the top and bottom; useful for reducing the letter box top and bottom bars of non-anamorphic DVD images.

Zoom: Enlarges the picture to fill the screen by cropping the sides, top, and bottom to eliminate black bars.

- 480i/480p and SD 4:3 signals: Eliminates top and bottom bars on anamorphic DVDs with a 2.35:1 aspect ratio.
- 720p, 1080i, SD 16:9, and HD signals: Eliminates bars added to squarish 4:3 images.

Original Signal TV Display			Anamorphic DVD	
Standard		Distorted. Not recom- mended.		Recommended
Expand		Recom- mended for letterbox. See Note 1.		Distorted; not recommended. See Note 1.
Zoom		Distorted. Not recom- mended. See Note 1.		Recommended for anamorphic 2.35:1 images. See Note 1.
Stretch	0000	Recom- mended for standard broadcasts. See Note 1.		Distorted; not recommended. See Note 1.
Stretch Plus		Recom- mended for standard broadcasts. See Note 1.		Distorted; not recommended. See Note 1.
Narrow	0 0 0	See Note 1		Distorted; not recommended. See Note 1.

Note 1: Available for 480i, 480p, and digital SD 4:3 signals only.

Origina	l Signal	Display Formats	
SD 16:9 or HD Digital 720p, 1080i,			Recommended to remove side bars.
1080p Signal	$\lozenge \bigcirc \lozenge$		Recommended to remove bars from the top, bottom, and sides.

TV Display Formats. Press the MORE key and then repeatedly press the 0 key (FORMAT) to see the displays available for the current program. Press the INFO key to see the name of the display format in use.

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.

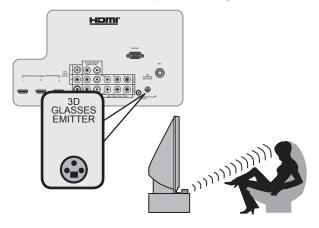
Note: All high-definition channels send widescreen (16:9) signals, but not all programming was created for the widescreen format. The broadcaster may stretch the image or add side bars to fill the widescreen area.

3D Video

This section provides Instructions for viewing 3D video using 3D glasses and the TV's 3D feature. The 3D options are found in the *Adjust* > *3D Mode* menu described on page 34.

Initial Setup

- Check if your HDMI 3D video source device outputs a 1080p 60 Hz signal. This information will be needed when you assign an input name in the New Device Found screen.
- If your 3D glasses came with an emitter box, connect the emitter box to the 3D GLASSES EMITTER jack. Place the box in front of the TV where there is clear path to the glasses.



- 3. Power on the TV and the source device.
- 4. Connect the source device to the TV's HDMI input.
- 5. When the New Device Found screen displays, name the input according to the table below. The signal type and choice of name are important because the TV will process the video signal differently depending on the name you assign. If your source device is a Blu-ray disc or game console, the signal must be 1080p at 60 Hz.

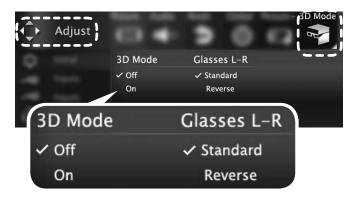
Source of 3D Video	3D Video Signal	Assign Name
Computer	Recommended: 1080p 60 Hz (1920 X 1080). The image will fill the TV screen. Other 60-Hz computer video signals compatible with the TV will display with black bars. See "Computer Display Formats" on page 27.	PC
Any other 3D video source	To see 3D video, the signal must be 1080p 60 Hz	Any other name

6. Press BACK to close the **New Device Found** screen.

Watching 3D Video

Note: 3D glasses are required.

- 1. Press ACTIVITY.
- **2.** Highlight the icon for the 3D video device and press **ENTER**.
- Press MENU and select the Adjust > 3D Mode menu
- **4.** Select **On**. The **On** setting will be memorized for the current input when you exit this menu.



Use the Adjust > 3D Mode menu to enable 3D video.

- 5. Press BACK to close the menu.
- 6. If the image does not appear correct (e.g., objects appear to be moving in instead of out), open the Adjust > 3D Mode menu and set Glasses L-R to Reverse.

To Watch Regular (non-3D) Video

The **3D Mode** setting is memorized for each input. When you want to watch non-3D video on the input selected above, open the *Adjust > 3D Mode* menu and set **3D Mode** to **Off**.

Important Note About 3D Images

To display 3D images, Mitsubishi Home Theater DLP TVs require that source devices support checker-board display formats for 3D gaming or 3D cinema content. A 3D standard format does not currently exist for Blu-ray or DVD prepackaged media. Future 3D standards may be incompatible with Mitsubishi Home Theater DLP TVs. Please visit mitsubishi-tv. com for updates and information.

Using the TV with a Personal Computer

Connecting a Computer to the TV

Use one of the connection methods listed below based on your computer's video output.

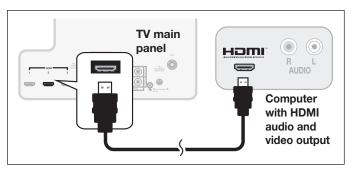
Computer Video Output	Video Connection Audio Connection		
Digital DVI	DVI-to-HDMI cable or an HDMI cable with an HDMI-to-DVI adapter		
	Note: If the computer's audio output is a single mini jack, a mini audio-to-RCA-male "Y" adapter cable is also required.		
HDMI	HDMI HDMI-to-HDMI No additional audio connection is required		

IMPORTANT

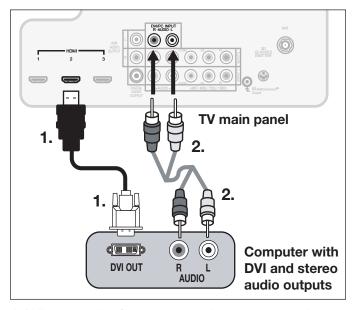
This TV accepts digital computer signals only.

- Connect the computer's digital signal output to one of the TV's HDMI jacks. See the connection diagrams for the method suited to your equipment.
- **2.** Connect the computer's audio output using one of these options:
 - For digital DVI signals, connect analog left/right audio to the TV's DVI/PC INPUT AUDIO jacks.
 - For HDMI signals, no additional audio connection is required.
- 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 video signal correctly.
- 5. Press BACK to close the **New Device Found** screen.

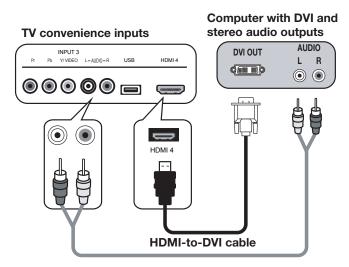
Note: If your computer provides digital audio output (coaxial or optical), you can connect it directly to a digital A/V receiver and bypass the TV.



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



A DVI connection from a personal computer requires a separate audio connection. A computer connected to the TV main connector panel is shown above.



837 Series: Computer with DVI output connected to the convenience panel.

Using the TV with a Personal Computer

Computer Video Adjustments

- **1.** Power on the computer.
- Select PC from the Activity menu. To do this, press ACTIVITY to open the Activity menu, move the highlight to the PC icon, and press ENTER.
- 3. 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. Perform TV video adjustments. Press MORE then press 8 (VIDEO) repeatedly to access video-adjustment options. The following additional adjustments are available for computer video:
 - **Horiz Position** (Horizontal Position). Manually adjust the horizontal position.
 - **Vert Position** (Vertical Position). Manually adjust the vertical position.
- 5. Press MORE then press 0 (FORMAT) repeatedly to find the picture format (aspect ratio) best suited to the image. See the chart on this page showing how different computer resolutions 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 and the lamp is in use. The lamp is in use whenever the TV is powered on, even if the screen appears dark.

Computer Display Formats

Press **MORE** then press **0** (**FORMAT**) repeatedly to cycle through the TV displays available for your computer's video signal.

Computer Signal		As Displayed on TV Screen		
Original Format		4 X 3 Standard	16 X 9 Standard	Zoom
VGA 640 X 480				
WVGA 848 X 480		000		
SVGA 800 X 600				
WSVGA 1064 X 600				

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

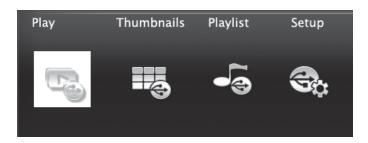
Original Format Standard Reduce
PC 1080p
1920 X 1080

Camera Images and Music Files

837 Series TVs Only

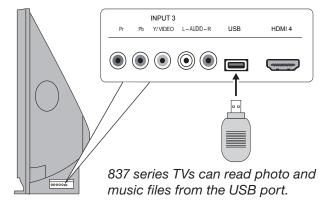
- The TV can read photo or music files from a USB device. Photos must be in JPEG format and music files must be in mp3 format. To play music files while displaying a photo slide show, see "USB Media Setup Menu" on the opposite page.
- The TV can display files of still or moving images from a camera through the **Y/VIDEO** port.

The USB Media Player Menu



Displaying the Menu

- Back up the data on your USB drive before connecting it to the TV. Mitsubishi is not responsible for any file damage or data loss.
- Connect your USB drive to the TV's USB port.
 The USB Media Player menu displays while files are being read. Wait until icons appear in the menu before continuing.



3. From the USB Menu you can:

Activate any of the menu options	Highlight an icon and press ENTER.
Display the <i>Activity</i> menu.	Press ACTIVITY . Press again to clear.
Display the main menu.	Press MENU . Press again to clear.
Display status for the file source.	Press INFO. Press BACK to clear.

4. To resume use of the USB port after switching the TV to a different input, press ACTIVITY, choose View Photos, and select the USB port.



Playing a Slide Show or Playlist

Use these keys while playing a slide show or playlist.

or ENTER Replays the slide show or playlist.			
	Pauses a slide show or playlist.		
Stops a slide show or playlist.			
	Displays the previous or next slide. Plays the previous or next track.		
GUIDE	Rotates an image clockwise in 90° increments.		
BACK Displays the USB Media Player m			
MENU	Displays the main menu and stops play.		
ACTIVITY Displays the Activity menu and stop			
INFO	Displays slide name or track name. Press BACK to clear.		

IMPORTANT

Always stop playback with (STOP) or change to a different TV input before disconnecting your USB device.

The TV can read JPEG files as created by the camera. If you edit a picture file on a computer and resave the image, the TV may be unable to read the resaved file.

Camera Images and Music Files, continued



Thumbnail and Playlist Menus



JPEG Thumbnail Menu

Use these keys while viewing JPEG thumbnail images or the music tracks in a playlist.

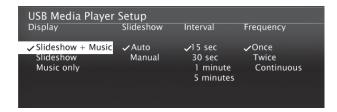
▲▼◀▶	Moves the highlight from item to item.
GUIDE	Rotates a thumbnail clockwise in 90° increments
or ENTER	Plays the slide show or playlist starting with the highlighted item.
	Selects the last item on the current page.
•	Selects the first item on the current page.
	Displays the next or previous page of items.
BACK	Displays the USB Media Player menu.
MENU	Displays the main menu.
ACTIVITY	Displays the <i>Activity</i> menu.

Picture Files Compatible with the USB Port

- Still images recorded on digital cameras using the Exchangeable Image File Format, version 2.1 (EXIF 2.1) standard for digital still cameras and Design Rules for Camera File Systems version 1.0 (DCF 1.0)
- Some images opened and resaved on a computer may not play back or may not display in the thumbnail list. This happens if the files were resaved in an incompatible format.
- Full path file names can be no longer than 50 characters and must end in a .jpg extension. Only the first 20 of the 50 characters will display.



USB Media Setup Menu



Use the USB **Media Setup** menu set up play of a slide show or playlist.

- If JPEG image files and mp3 files are on the USB device, choose:
 - Slideshow + Music
 - Slideshow
 - Music only
- Slideshow. Select either Auto or Manual advance for the slide show. During manual operation, press ENTER to advance to the next slide.
- Interval. For automatic advance, select the time interval for display of each slide. The interval you select here is the minimum time between slides; actual time may be longer for larger files.
- Frequency. For automatic advance, select the number of times (frequency) to play the complete slide show and/or playlist: Once, Twice, or Continuous.
- Press BACK to close the Media Setup menu and return to the Media Player menu.

Notes on Using the USB Port

- The TV ignores all commands while reading files. Wait until the Play icon appears highlighted and in full color before continuing.
- Large files or high-capacity storage devices may take a long time to display.
- The TV can read files up to 10 MB in size with a maximum of 2,500 files stored on the device. The FAT16 or FAT32 file system is recommended.
- Use a USB drive instead of a card reader.
- Back up the data on your USB drive before connecting it to the TV. Mitsubishi is not responsible for any file damage or data loss.

Note: Some manufacturers' devices may be incompatible with the TV. If the TV is unable to display your photos, you can:

- Transfer files to a different USB device.
- Use your digital camera's composite video output. See page 30.

Camera Images and Music Files, continued

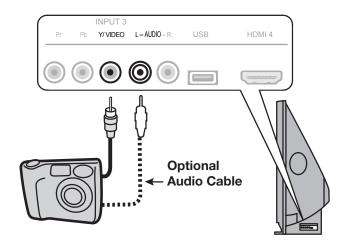
Photos and Moving Video as Composite Video

Connect the camera to the TV using a composite video cable if:

- You are unable to see images using the USB port.
- You wish to view moving video from the camera.

Control the slide show or movie through the camera as the TV's **USB Media Player** menu will be unavailable. 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/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 BACK to close the **New Device Found** screen.
- Press ACTIVITY, select Watch Movie > Cam, and press ENTER.



 If viewing photos, advance through the images manually or set the camera to advance automatically.

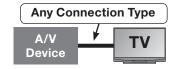
Introduction to Home-Theater Control

This TV offers a choice on home-theater-control systems. This summary offers some examples of the control methods available using the **TV's remote control**. You may wish to use one or more of these methods in your home theater after completing Auto Input Sensing.

Source device connected directly to the TV

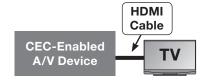
Remote Control Programming (Any Connection Type)

Program the remote control to operate the A/V device. To control the device, set the remote control to the correct mode for the device type. See Appendix A, "Programming the Remote Control." In the case of an A/V receiver, use the Audio Lock feature, page 59.



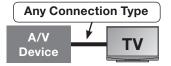
CEC-Enabled HDMI Device (HDMI Connection Only)

See Appendix C, "HDMI Control of CEC Devices," page 67.



837 Series: NetCommand IR Control (Any Connection Type)

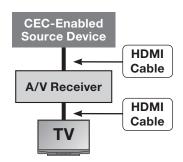
Set up NetCommand IR control of the device's keys as desired. See "IR Emitter Placement," page 46, and "Initial NetCommand Setup," page 47.



Source device connected to an A/V receiver connected to the TV

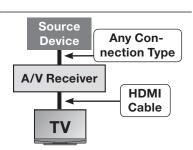
CEC-Enabled HDMI A/V Receiver

The TV's remote control may operate some functions of a connected A/V device. You can switch to the device by selecting its icon in the TV's **Activity** menu. See Appendix C, "HDMI Control of CEC Devices," page 67.



837 Series: A/V Receiver with HDMI Output (no CEC)

- 1. Set up NetCommand IR control of the **A/V receiver's** keys as desired. See "IR Emitter Placement," page 46, and "Setting Up A/V Receiver Control," page 52.
- Set up NetCommand IR control of the source device's keys as desired. See "NetCommand Control of a Device Connected to an HDMI A/V Receiver," page 56.



4

TV Menus

Main Menu

Press MENU on the remote control to open the main menu and then select from one of these categories.

\$	Adjust	Customize picture and sound settings.	33
C	Captions	Turn closed captions on and off; customize caption displays.	37
(C)	Initial	Perform basic TV setup. Set language, scan (memorize) channels and edit channel options, set the TV clock, set Lamp Energy, set auto-on TV Timer.	38
	Input	Assign names to TV inputs, enable HDMI Control, assign activities to inputs. 837 Series. Perform NetCommand IR "learning."	40
	Lock	Restrict TV use. Disable the control-panel buttons. Set a pass code.	42

Menu Navigation



Displays or clears the main menu.



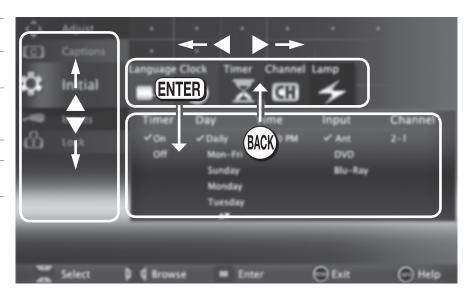
- Moves up one menu level.
- Clears the current menu.



- Moves navigation into options area.
- Selects an item.



■ Makes adjustments in some menus.



Look for the key guide at the bottom of each menu.



Picture	See page 35 for pict	See page 35 for picture adjustments.			
Audio	See page 36 for aud	io adjustme	nts.		
₩					
Reset	Resets audio an ENTER twice.	nd picture adjustments for the current input. Highlight the Reset icon and press			
2)		s no effect on global settings (Balance, Listen To, Language, Film Mode, and			
Global	Video Mute (non-antenna inputs only)	On	Displays a solid colored background when there is no video signal from the current input. The colored screen reminds you that the TV is powered on when there is no picture. The TV will power off after five minutes without receiving a video signal.		
		Off	The screen appears black when there is no video signal from the current input.		
	Audio On, Of Screensaver		Select On to display a random pattern while playing an audio-only input. To use this feature, the input must be either		
			Named as an audio source (e.g., CD or MP3 Player) and selected under the Listen Music activity. or		
			Be the ANT input.		
	Film Mode (480i and 1080i signals only)	Auto, Off	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.		
	Smooth 120Hz	Off, On	When On , Smooth 120Hz [™] reduces motion blur in action scenes but may show pixel structure during slower motion or in still images.		
	Blue Glow (837 series)	On, Off	Select On to see blue accent lighting when the TV is powered on.		
	2 3	Displays a test picture for use by TV servicers.			
	Test Picture				



Adjust, continued





	PerfectColor Sliders	Adjusts the saturation (intensity) of six colors for the current image source.		
PerfectTint Sliders (837 series)		Adjusts six hues for the current image source		

Using PerfectColor:

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

Using PerfecTint (837 Series):

- To switch between PerfectColor™ and PerfecTint™ adjustments, highlight **Adjust Mode** 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.



Glasses L-R

Advanced **Picture**



Advanced Picture allows you to save highly customized picture adjustments for each input. Mitsubishi recommends a professional installer make these adjustments.

Synchronizes the 3D glasses with the image on screen to provide the best 3D effect. Try Reverse if Standard seems incorrect.

- 1. Press MENU. Under Picture+, highlight the Advanced Picture icon and press ENTER.
- 2. With Picture Mode highlighted, press ENTER to change from blank (undefined) to ADV. 837 Series: Choose 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.
- **4.** Press **◆ ▶** to change settings.
- 5. Use ▲ ▼ to navigate to additional options and press ◀ ▶ to change settings.
- 6. Press MENU to return to the Advanced Picture menu. Press MENU to close the menu. The Advanced Picture adjustments will be in effect for the current input.

To use the custom Picture Mode at a later time

Press MENU and go to Adjust > Picture > Picture Mode and:

737 and C9 Series 837 Series Select **SPECIAL** if settings were saved by Select **ISF Day** or **ISF Night** if settings were your professional installer. saved by your professional installer. Otherwise select ADV. Otherwise select ADV1 or ADV2.

To return to the default values for Advanced Picture

Standard,

Reverse

	Display the Picture+ > Advanced Picture menu and:			
	737 and C9 Series			837 Series
	Highlight RESET P i	c Mode and pr	ress enter .	 Highlight the Advanced Picture mode to change. Highlight RESET Pic Mode and press ENTER. Repeat this separately for both ADV1 and ADV2.
3D Mode	3D Mode	On, Off	Use the On setting for video games and movies that require 3-D glasses. This setting applies only to the current input. Note: 3D options are available only for 1080p 60-Hz video sources connected to an HDMI input.	

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Adjust, continued



Picture

Assign names to TV inputs before making video adjustments (*New Device Found* or *Inputs > Name* menu). Adjustments will be reset to the defaults if you name or rename inputs afterwards. To make picture adjustments:

• From the *Adjust > Picture* menu:

- **1.** Press ▲ ▼ to highlight an option.
- 2. Press **♦** be to adjust.
- While watching TV: Press the MORE key and then 8 (VIDEO) in the on-screen menu. Press ▲ ▼ to select the video option you want to change. Press ▼ to change settings.

	Brilliant	For use under bright light; unavailable when the current input is named Game or PC .	Set the Picture Mode first before changing other video				
	Game Optimizes picture and video processing for gaming consoles. Available only when the name of the input is Game or PC.		settings, as some settings are stored independently for each Picture Mode. Use Picture Modes to get the best image				
Picture Mode	Bright	For most daytime viewing and x.v.Color sources	under different viewing condi-				
iiiouo .	Natural	For most nighttime viewing and x.v.Color sources	tions.				
	Special	Advanced Picture Modes. Contact your professional installer for setup or see "Advanced Picture"					
	ISF Day, ISF Night						
Contrast	In mostHigh comakes	ntrast shows a variety of shades in darker images home lighting situations, medium contrast looks best. ntrast shows darker images more uniformly black and colors appear more vibrant. High contrast is good for lit environments.	Adjusts the white-to-black level Settings are stored indepen- dently for each Picture Mode.				
Brightness	Adjusts ove	rall picture brightness. Settings are stored independently	y for each Picture Mode.				
Color	Adjusts overall color intensity from no color to fully saturated.						
Tint	Adjusts the	Adjusts the red-to-green ratio.					
Sharpness	Adjusts pict	djusts picture detail and clarity.					
Color	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 each Picture Mode.				
Temp	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	Use High with poor-quality signals.	Reduces minor noise (graini-				
Video	Medium	Use Medium for moderate noise reduction.	ness) in the picture. Saved by input. This adjustment is not				
Noise	Low	Use Low with good-quality signals.	available if the current input is				
	Off	Use Off to leave the picture unaltered.	named PC or Game or when 3D is active.				
SharpEdge	On, Off	737, 837 Series. SharpEdge™ adds special edge enha	ancements to make the image				
DeepField	On, Off	737, 837 Series. DeepField™ Imager dynamically enhathe screen to provide strong contrast with detail over m					
Imager	Demo	For comparison, displays a split picture to show On (right side) and Off (left side).					



Adjust, continued



To make audio adjustments:

- From the Adjust > Audio menu:
 - 1. Press ▲ ▼ to highlight an option
 - 2. Press **◆** ▶ to adjust.
- While watching TV: Press the MORE key and then 9
 (AUDIO) in the on-screen menu. Press ▲ ▼ to select the audio option you want to change. Press ◀ ▶ to change settings.

Level Sound	On, Off	Reduces differences in sound volume between programming segments, such as the difference between regular broadcast programs and commercial segments.		
	Available only	for digital channels from the ANT input.		
Language		rrent language for a digital program from the ANT input. Each digital program may ero to seven language choices.		
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.		
Applicable only to analog channels from the	Mono	Reduces background noise. Use when receiving a weak stereo audio signal. All audio is played as mono with this setting.		
Listen To	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.		
Courie Mode	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.		
Balance Sound Mode	Controls audio	balance between the right and left TV speakers No special audio effects from the TV speakers		
Treble		ne of high-pitched sound from the TV speakers.		
Bass		ne of low-pitched sound from the TV speakers.		
	Headphones	Speakers setting to TV to hear sound from the TV speakers. Turns off the TV speakers so you hear sound only from connected headphones. See "7. AVR AUDIO OUTPUT," page 16. This option is not available if DIGITAL AUDIO OUTPUT is connected.		
	AV Receiver	Note: When you disconnect an analog A/V receiver, be sure to change the		
Speakers	detected. Det jack. An A/V r	option displays only if an A/V receiver or headphone connection has been ection occurs on the right AVR AUDIO OUTPUT jack and the DIGITAL AUDIO OUT eceiver can also be detected on an HDMI jack.		

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Captions

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.

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.

IMPORTANT

- Analog text-service options display a large black or gray box on the screen when no 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.

Services	Digital	On if Mute Caption 1– Caption 6 Off	 On if Mute: Displays digital closed-caption signal Caption 1 when audio from the TV speakers is muted. When watching TV, press MUTE to turn closed captions on/off. Caption 1-Caption 6: Caption signals sent by the broadcaster On if Mute: Displays analog closed captions signal CC 1 when audio from the TV speakers is muted. When watching TV, press MUTE to turn captions on/off. CC 1-CC 4: Standard closed-caption signals Text 1-Text 4: Text-service signals 				
	Analog	On if Mute CC 1-CC 4 Text 1-Text 4 Off					
	Analog Back- ground	Gray, Black	Selects either a gray or black text background to make analog closed captions easier to read.				
Effects C (for captions	Font	Default Font 1–Font 7	Default changes settings to those selected by the captions provider, or, if none, to the TV's own caption defaults. Use Fonts 1 through 7 to give captions on digital channels a custom appearance.				
from digital channels)	Font Size	Large Medium Small	Large is the recommended size.				
	Font Color	White, Black, M	lagenta, etc.	Guidelines for setting digital captions:			
	Font Opacity	Translucent, Op Transparent	paque, Flashing,	A white font on a black translucent background makes an easy-to-read			
	Background Color	White, Black, M	lagenta, etc.	 combination. Use contrasting colors for captions and 			
	Background Opacity	Translucent, Opaque, Flashing, Transparent		background.			



Languag	Ę
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K	

English Spanish

Displays on-screen menus in either English or Spanish.

Note: To listen to audio in other languages (when available), see **Adjust > Audio > Listen To > SAP** (analog signal) or **Language** (digital signal) on page 36.

Clock

Set the TV clock to:



- Use the TV Timer to power on the TV automatically at a preset time
- Receive correct updates to ChannelView listings

Note: When the Daylight Savings Time change occurs, you must open this menu and set the TV's clock ahead or back.

Time	 With the hour highlighted, press ▲ ▼ to change the hour and the AM/PM indicator. Press and hold to change the hour display quickly. Press ENTER to set the hour. With the minutes highlighted, press ▲ ▼ to change the minutes. Press and hold to change the minutes display quickly. 		
Date	 With the month highlighted, press ▲ ▼ to select. Press ENTER to set. With the day highlighted, press ▲ ▼ to select. Press ENTER to set. With the year highlighted, press ▲ ▼ to select the current year. 		
Time Zone	Eastern, Central, Mountain, Pacific, etc. The correct time zone is required for accurate ChannelView updates.		
DST	On, Off Daylight Savings Time. Select the setting for your area. The correct DST setting is required for accurate ChannelView updates.		
		·	

Timer

Timer

On, Off

Select On to enable the 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 requested 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.
- To remind you that the TV Timer has been set, the **POWER** indicator on the front of the TV 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 on. Otherwise, the TV will turn off after five minutes.

Day	Daily, Mon-Fri, (every) Sunday, (every) Monday, (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: 4. With the hour highlighted, press ▲ ▼ repeatedly to change the hour and the AM/PM indicator. Press and hold to change the hour display quickly. 5. Press ENTER to highlight the minutes. 6. Press ▲ ▼ to change the minutes. Press and hold to change the minutes display quickly. 			
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 <i>Activity</i> menu.			
Channel	If the source is the ANT input, select a channel number by pressing ▲ ▼ or press and hold to scroll through channels.			



Initial, continued

Channel	Ant Air, Ant Cable	You must perform a channel scan to receive digital channels. Scan searches for broadcast channels and adds them to TV memory. To start channel scan:
(Channel Manage- ment)	Scan	 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) Press ➤ to highlight SCAN. Press ENTER to start channel memorization.
	Edit	 After channel scan, Edit lets you add and delete memorized channels. Press PAGE DN/UP to jump to the next or previous page of channel numbers. Press ▲ ▼ ◀ ▶ to move through all channel numbers, one at a time.

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.
- To add a digital channel that does not appear in the *Edit* menu without repeating channel memorization:
 - Look up the physical channel number for the new digital channel. See the website www.antennaweb.org for help.
 - 2. Press ACTIVITY and select the ANT input.

- Use the number keys and CANCEL key to enter the physical channel number followed by "-1" and ENTER. For example, for physical channel 36, press
 - 3 6 CANCEL 1 ENTER.

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.

4. TV Menus

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

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.
 See below for an explanation of these terms.
 - **Virtual Channel Number** (digital channels only). A channel number sent by a local broadcaster. Usually the virtual number is associated with the corresponding analog channel number. For example, a broadcaster may associate digital channel 2-1 with their analog channel 2.
 - **Physical Digital Channel Number.** The channel number officially assigned to the actual broadcast frequency; shown on screen in gray text.

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.
--------	----------------	---------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------



Name



Cablebox, Cam(corder), CD, DVD (DVD, DVD2, Blu-ray), DVR, Game (Game, PS, Xbox, Wii), MP3 Player, PC, Satellite, VCR, AVR

Delete (deactivated HDMI only) **On/Off (ANT** only)

- Lets you assign or change names of inputs appearing in the Activity menu.
 - Press ◀ ▶ to move between inputs.
 - Press ▲ ▼ to select a name.
 - You cannot change the name of the current input; you must first switch to another input. If you have only one input, such as a cable box, make sure the **Ant** input is **On** and switch to **Antenna** in the **Activity** menu before renaming the single input.
- Lets you turn the Ant input On/Off (to display/hide it in the Activity menu).
- Lets you delete unused HDMI inputs from the Activity 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

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

- The name is changed
- The icon in the Activity menu is changed
- Audio and video settings are changed to the defaults for the new device type.
- 837 Series: All previous NetCommand IR "learning" for the input is erased.

Notes for HDMI devices

- **Disconnecting an HDMI device:** When you disconnect an HDMI device, the icon remains in the **Activity** menu until you remove it. Select **Delete** in the **Inputs** > **Name** menu to remove an unwanted icon for an HDMI input.
- If the **New Device Found** screen does not display as expected when you connect an HDMI device, see "Reactivating Auto Input Sensing for an HDMI Input," page 11.
- HDMI Control and CEC-Enabled Devices: See Appendix C, "HDMI Control of CEC Devices," page 67.
- If case of CEC conflicts: Turn off CEC signals in one of these ways:
 - Turn off the TV's HDMI Control signals to the device.
 - Turn off each device's internal CEC capability.

See Appendix C 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.

Sets up or changes NetCommand IR control of the current viewing device. See "About NetCommand IR Control," page 45. AVR B37 Series Sets up or changes NetCommand IR control of an A/V receiver. See "NetCommand IR Control of an A/V Receiver" on page 51. HDMI Control On, Off Select On or Off to enable or disable the TV's control of a CEC-enabled device. See Appendix C for use of this feature. • Lets you customize the Activity menu choices for the current input. • Highlight the activity name and press ENTER to make changes. • See "How is the Activity Menu Generated?" on the opposite page.



How is the Activity Menu Generated?

The TV automatically generates the *Activity* menu based on recognized inputs. If the inputs have been named as device types, the TV groups the device types based on how they can be used. The device names used for groupings are those assigned in the *New Device Found* menu or the *Inputs > Name* menu. The table below summarizes the device groupings that can appear in the *Activity* menu.

Key

- $\checkmark \;\;$ Activity assignments made automatically by the TV.
- X Activity assignments you can make using the Inputs > Activity menu.

	Watch TV	Watch Movie	Play Game	View Photos	Listen Music
Antenna	✓				
AV Receiver	✓				✓
Blu-ray		✓		Х	Х
Cable Box	✓				
Camcorder		✓			
CD/Audio					✓
DVD		✓			Х
DVD2		✓			Х
DVR	✓				
Game			✓		
MP3 Player		✓			✓
PC	✓	Х	✓	Х	Х
PS		✓	✓	Х	
Satellite	✓				
USB				✓	Х
VCR		√			
Wii		Х	√		
Xbox		Х	✓		



Lock

TV Locks

Parental Lock by Program Ratings Restricts access using U.S.-based ratings sent by broadcasters. Time Lock by Time Restricts TV use by time of day. **Panel** Lock Control Panel Disables the buttons on the TV's control panel. Use this option if small children in the home try to press control-panel buttons. Other Lock by Other Program Ratings Restricts access using non-U.S.-based ratings sent by broadcasters.

Pass Codes

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 BACK to close the menu without setting a pass code.
- **3.** Press **ENTER** to set the pass code.

Resetting a Pass Code

See the procedure in Appendix B.

Parental Menu

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. 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)

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 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.

Bypassing TV Locks

- If you try to watch a blocked program 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.
 - To reactivate only the parent ratings lock, change to a different channel or device.
- 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.

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



Lock	Off, On	Disables or enables blocking based on V-Chip signals and the U.S. rating system.					
Start	Sets the tin	e of day for enforcement of rating restrictions set in the <i>Parental</i> menu.					
Time	1. Highligl	ht the hour digits for Start Time .					
Stop Time		▼ repeatedly to change the hour and associated AM/PM indicator. You can also just press ld to move quickly through the numbers.					
	3. Press E	ER to highlight the minutes.					
		e minutes digits highlighted, press \blacktriangle $lacktriangle$ repeatedly to change the nand hold to move quickly through the numbers.	ninutes. You can also just				
	5. Highligl	ht the Stop Time digits and set the time as described above.					
	Note: To	make rating restrictions active 24 hours a day, make Start Time an	d Stop Time the same.				
TV	TV-Y	Youth. For children under 7.	Highlight the rating level				
Rating	TV-Y7	Youth 7 and older.	you wish to change and press ENTER to block it				
	TV-G	General Audience. For the entire family.	(🎒) or allow it (💕).				
	TV-PG	Parental Guidance. Parental Guidance recommended; may not be suitable for some children.	You can apply supple- mental content blocking				
	T)/ 44		to the age-based ratings				
	TV-14	Adolescent 14 and older. Not recommended for children under 14.	by using the TV content				
	TV-MA Mature Audience. For adults only. categories list						
FV	Fantasy Vi	olence. Applies to TV-Y7 only.					
D	Sexual Dia	Sexual Dialog. Applies in differing degrees to TV-PG and TV-14.					
L	Adult Lang	uage. Applies in differing degrees to TV-PG, TV-14, and TV-MA.	TV Content				
S	Sexual Situ	uations. Applies in differing degrees to TV-PG, TV-14, and TV-MA. Categories					
V	Violence (g TV-14, and	(graphic or realistic). Applies in differing degrees to TV-PG, dt TV-MA.					
Movie	G	General Audience. Designed for the entire family.					
Rating	PG	Parental Guidance. Parental Guidance recommended; may not be suitable for some children.					
	PG-13	ren 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	l and older.				
	Х	Adult. Designed for and restricted in theaters to adult audience	s only.				
	Not Rated	No MPAA rating assigned					



Lock, continued

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.					
	Lock by Time	Enables/disables Lock by Time.				
	Lock Time,	To set the lock and unlock times:				
	Unlock Time	1. Highlight the hour digits for the Lock Time .				
		 Press ▲ ▼ repeatedly to change the hour and associated AM/PM indicator. To move quickly through the numbers, just press and hold. 				
		3. Press ENTER to set the hour and highlight the minutes.				
		4. With the minutes highlighted, press ▲ ▼ repeatedly to change the minutes. To move quickly through the numbers, just press and hold.				
		5. Highlight the Unlock Time digits and set the time as described above.				
		Note: To make Lock by Time active 24 hours a day, make Start Time and Stop Time the same.				
	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.				
Panel		 To release the Panel Lock from the TV's control panel, press and hold the ACTIVITY 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. 				
Other	This TV can recremains grayed	Other Menu Options (alternate rating system) This TV can recognize new rating systems that may come into effect in the future. The Other option remains grayed out until the TV receives a signal using an alternate rating system. Such alternate rating systems will apply only to digital programming received on the ANT input.				
	Lock	On, Off Enables/disables program blocking.				
	System Name	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.

5

NetCommand IR Control

About NetCommand IR Control

- NetCommand IR home-theater control is available on 837 series models.
- IR emitter cables are available for purchase from Mitsubishi. Visit www.mitsuparts.com or call 800-553-7278 and request one of the following:
 - 242D483020 (two-ended cable)
 - 299P254020 (four-ended cable).
- NetCommand setup is optional.
- You can perform NetCommand setup when the TV first recognizes a device during Auto Input Sensing or at any convenient time afterward.
- NetCommand operates by sending remote control signals from the TV to your other devices via the IR (infrared) emitters, telling the devices to play, record, change inputs, adjust volume, change channels, or perform other functions. All this is accomplished with the TV's remote control left in TV mode.
- You may wish to use NetCommand IR control to supplement control of CEC-enabled devices.

Important Note on NetCommand

Be sure to connect the IR emitter cable to the

TV and properly place the emitters so that

NetCommand can control your devices.

IR Emitter Placement

The NetCommand system uses emitters connected to the IR-NetCommand Output jack to control other devices such as DVD players, cable boxes, satellite receivers, and VCRs.

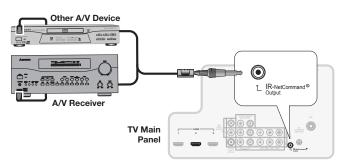
IR emitter cables are available for purchase from Mitsubishi. Request either part number 242D483020 (two-ended cable) or part number 299P254020 (four-ended cable).

- Connect the plug end of the IR emitter cable to the IR-NetCommand Output jack on the TV back panel.
- When the New Device Found screen displays, highlight EXIT and press ENTER.

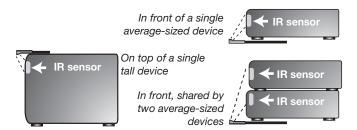


The New Device Found screen displays when you connect the IR emitter.

- 3. Position the emitter end with the emitter bulb facing the device's remote control sensor. The bulb emits infrared light in a cone-shaped pattern. Place the bulb far enough from the sensor to allow the cone pattern to reach the sensor.
 - In some cases, the emitter works better facing downward from the top of the device. Experiment to find what works best.
- Secure the emitter ends in place using doublesided tape.
- Place any unused ends behind the devices to prevent stray signals from reaching the IR sensors.



Connecting IR-NetCommand Output



Place IR emitters so the signal can be "seen" by the IR sensor on each device.

If You are Unable to Locate a Device's IR Sensor

- The IR sensor is usually behind the plastic window of the front display panel. Using a flashlight, you may be able to see it as a round or square cutout.
- If you cannot see the sensor and the device's Owner's Guide does not specify the location, do the following using the device's remote control.
 - Starting at one end of the plastic window, hold the device's remote control about one-half inch from the front of the device and press the POWER key.
 - 2. If the device does not respond, move the remote control one inch toward the center and try again. Repeat until the device responds.
 - Repeat the previous steps starting at the other end of the window. The sensor will be between these two points.

IMPORTANT

Position IR emitters so that each device's sensor "sees" the signal from only one emitter. Otherwise, a device receiving signals from multiple sources (remote controls, IR emitters) may not respond at all.

Initial NetCommand Setup

To perform this procedure, you need:

- The remote controls for both the TV and the device you want to control.
- An IR emitter cable available from Mitsubishi.

Note: To set up an A/V receiver, see "Setting Up A/V Receiver Control," page 52.

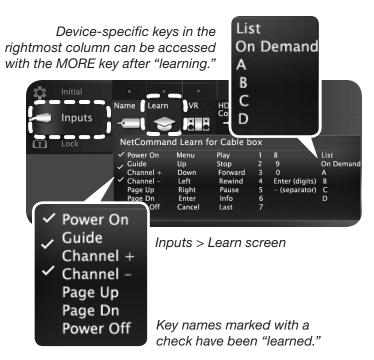
- Connect and position the IR emitters for the devices you wish to control. See "IR Emitter Placement" on the opposite page.
- Set the TV's remote control to TV mode and power on the TV.
- 3. Open the NetCommand Learn screen as follows:
 - If working from the New Device Found screen after the device is first detected, highlight NetCommand and press ENTER to open the Learn screen for the device.
 - If performing NetCommand setup at any time after the device has been recognized through Auto Input Sensing:
 - a. Press ACTIVITY.
 - **b.** Highlight the desired input icon and press **ENTER** to switch to that input.
 - c. Press MENU, highlight Inputs, and highlight Learn to open the Inputs > Learn screen for the device.
- 4. The first function highlighted in the *Learn* screen is always **Power On**. Aim the *TV's* remote control at the TV and press **ENTER** to begin learning for that function.
- 5. When the Power On text starts flashing, aim the device's remote control at the TV and hold the POWER key until a check mark appears next to Power On.
 - If the text stops flashing before the check mark appears, repeat the previous step.
 - To remove the key from NetCommand control, press the CANCEL key while the key name is highlighted.
- 6. Press the ▲ ▼ ◀ ▶ keys on the *TV's* remote control to highlight other keys on the list. Repeat steps 4 and 5 for each additional function you wish to control through NetCommand.

Note: Device keys in the far right column will be associated with the remote control's **MORE** key when "learned." See the table on page 49.

- 7. If the device has a separate POWER OFF key, press ▲ ▼ on the TV's remote to highlight Power Off. Repeat the earlier steps to "learn" the POWER OFF key. If the device has no POWER OFF key, skip this step.
- **8.** Press **BACK** to finish NetCommand "learning" for the current device.



From the New Device Found screen, highlight NetCommand and press ENTER to open the Learn screen.



Adding or Removing Device Keys from NetCommand Control

- **1.** Switch the TV to the device. Press **ACTIVITY**, highlight the device's icon, and press **ENTER**.
- 2. Open the *Inputs* menu and highlight the **Learn** icon.
- 3. When the **Learn** screen displays:
 - To add keys: Continue as described earlier under "Initial NetCommand Setup" on this page.
 - To delete keys: Highlight the name of the key you wish to delete and press CANCEL on the TV's remote control to clear the check mark.

Operating NetCommand-Controlled Devices

Controlling Most Device Types

As an example of NetCommand control, if you are watching your cable box and you wish to tune to the next channel higher, press **CHANNEL UP**. NetCommand then sends the "learned" channel-up control signal to the cable box.

- Perform NetCommand setup for the device as described in this chapter.
- **2.** When you wish to use the device, press **ACTIVITY**.
- 3. Press ▲ ▼ ◀ ▶ to highlight the icon for the device.
- 4. Press ENTER to switch the TV to the device.

Note: if you have set up automatic input switching for the A/V receiver, the A/V receiver will automatically switch to the correct input for the device.

- To operate the device using the *TV's* remote control, press the side button to put the remote control into *TV* mode.
- **6.** Point the remote control at the **TV** (not the device) and press the key for the desired function.
- 7. Press the MORE key to access additional key functions you may have "learned" for the device.

Special Operation Methods

Key Name in Learning Screen	Special Operation Description and Setup	How to Use	
Power On	Manual Power On/Off Use for devices that have only one POWER key.	 Press ACTIVITY. Press ▲ ▼ ◀ ▶ to highlight the icon for the device to be powered on or off. With the <i>Activity</i> menu still displayed, press POWER to send the power signal; you may need to press POWER twice. Note: If you press POWER without the <i>Activity</i> menu displayed, the TV will turn off. Press ENTER to switch the TV to the device. 	
Power On	Automatic Power On/Off	To Power On the Device	
Power Off	This feature is only for devices that have separate POWER ON and POWER OFF keys on their original remote controls. If your device does not have a separate POWER OFF key, do not use the Power Off learning position; use only the Manual Power ON/OFF method described above. In the NetCommand <i>Learn</i> screen: a. "Learn" the Power On command in the Power On learning position. b. "Learn" the Power Off command in the Power Off learning position.	 Press ACTIVITY. Press ▲ ▼ ◀ ▶ to highlight the icon for the device to be powered on or off. Press ENTER to switch the TV to the device and NetCommand will send the Power On command to the device. To Power Off the Device When you turn the TV off, the TV sends all learned Power Off commands to all devices. 	
Menu	Displaying a Menu for the Current Device "Learn" the MENU key on the original remote in the Menu learning position.	Press MORE and then 1 to send the menu command to the current device.	
Guide	 Displaying the On-Screen Program Guide (cable box or satellite receiver) "Learn" the GUIDE key on the original remote in the Guide learning position. Learn the PAGE UP and PAGE DOWN keys of the original remote in the Page Up and Page Down learning positions. 	 While watching the device, press GUIDE to display the guide. Press PAGE UP/DOWN (≈ ⋈) to send the Page Up/Dn commands for the guide. 	

Operating NetCommand-Controlled Devices, continued

Key Name in Learning Screen	Special Operation Description and Setup	How to Use
Enter	Some devices have two keys that have "enter" fund SELECT or OK. A second key is for use with number uses the same ENTER key for both operations. When ENTER has a menu or guide function or when the original remote control uses the same key for menus and channel selection: Learn the ENTER, SELECT, or OK key in the NetCommand Enter learning position.	ctions. One key is for menus and is often labelled
Enter (digits)	When ENTER is for channel changes, i.e., the original remote control has a separate ENTER key for this function): Learn the ENTER key for channel selection in the NetCommand Enter (digits) learning position. Use this learning position only if the original remote control has separate keys for Enter in menus and Enter for channel selection.	Press digit key(s) and then press ENTER. NetCommand will send the Enter signal for channel selection.
Cancel	CANCEL as the Cancel or Exit Function "Learn" the Cancel or Exit function in the NetCommand Cancel learning position	 Press MENU or GUIDE to display the menu or guide. Press CANCEL and NetCommand will send the Cancel or Exit signal.
_ (separator)	The symbol "—" can serve as the separator between a digital channel's main and sub-channel digits, e.g., digital channel 12-1 (main channel is 12, sub-channel is 1). "Learn" the channel separator function in the NetCommand – (separator) learning position.	Press digit key(s) and press CANCEL. NetCommand will send the channel-separator signal.

The MORE Key Menu and NetCommand

Perform NetCommand setup for these device-specific keys and then access their functions with the **MORE** key.

Device Key	VCR	Cable/ SAT	DVD/ DVR	A/V Receiver
Menu	✓	✓		✓
Input	✓			✓
SP/EP	✓			
List		✓		
On Demand		✓		
Α		✓		
В		✓		
С		√		
D		✓		

Device Key	VCR	Cable/ SAT	DVD/ DVR	A/V Receiver
Top Menu			✓	
Angle			✓	
Audio (DVD)			✓	
Subtitle			✓	
Repeat			✓	
Bonus View			✓	
Setup			✓	
Surround				✓
Night				✓

Operating NetCommand-Controlled Devices, continued

NetCommand Specialized Device Keys

Refer to this chart when "learning" device keys. "Learn" some, all, or none of the keys used for each device type.

See page 48 for more on keys marked in the "Special Operation Method" column.

Key Name in Learning Screen	Function	Name on TV Remote Control	See Special Operation Method Table
Power On	Power On or Power ON/OFF (toggle)	(b)	✓
Guide	On-Screen Program Guide or DVD Disc Menus	GUIDE	✓
Channel +/Skip +	Next Channel Higher/ Skip Forward (Disc)	+	
Channel -/Skip -	Next Channel Lower/ Skip Backward (Disc)	9	
Page Up	Page Up in Guides		
Page Dn	Page Down in Guides	*	
Up	Arrow up	A	
Down	Arrow down	▼	
Left	Arrow left	◀	
Right	Arrow right	>	
Enter	Enter or Select (menus)	ENTER	✓
Cancel	Cancel or erase (menus)	CANCEL	✓
Play	Start playback	P	
Stop	Stop playback		
Forward	Fast Forward	•	
Rewind	Rewind/Fast Reverse	•	
Pause	Pause playback	•	
Record	Start Recording	•	
1, 2, 3, 4, 5, 6, 7, 8, 9, 0	Digits	1, 2, 3, 4, 5, 6, 7, 8, 9, 0	
Enter (digits)	Use after entering digits to tune directly to a channel by number	ENTER	✓
- (separator)	Add digital channel separator between main channel number and sub-channel number	CANCEL	✓
Last	Last Channel Recall	5	
Info	On-screen status display or information display	(NFO)	May require two keypresses
Power Off	Power Off	(b)	✓

6

NetCommand IR Control of an A/V Receiver

Several types of A/V receiver control can be set up using the *Inputs* > *AVR* menu.

- Power and volume. See the next page.
- Audio switching. For most equipment setups, see "Case 1: Automatic A/V Receiver Switching to the TV Audio Input" page 53.
- Audio switching and surround sound. To set up switching to a surround sound device, see "Case
 2: Automatic A/V Receiver Switching to a Surround Sound Device" page 54
- Audio and video switching over HDMI. If your A/V receiver has an HDMI output, it may be convenient to send audio and video to the TV over a single HDMI cable through the A/V receiver. See "Case 3: Automatic Audio and Video Switching via HDMI," page 55.

Note: To set up control of other device types, see "Initial NetCommand Setup," page 47.

Controlling an A/V Receiver after NetCommand Setup

Switching Audio to and from the A/V Receiver

- 1. Press MORE and then 9 (AUDIO).
- 2. Press ▲ to show the **Speakers** option.
- 3. Press ▶ to select either AV Receiver or TV.

Controlling A/V Receiver Power

With Any Connection Type

- 1. Press MORE and then 9 (AUDIO).
- 2. Press ▲ ▼ to show the **Speakers** option.
- 3. Press ▶ to select AV Receiver.
- 4. Point the remote control at the TV (not the A/V receiver) and press POWER to power the A/V receiver on or off.

With an HDMI Connection

- 1. Press ACTIVITY.
- 2. Highlight the A/V receiver icon.
- 3. Press POWER.

Controlling Other A/V Receiver Functions

With the A/V receiver powered on and selected, the TV's remote control operates the volume and mute functions. Also, when you switch to a device in the **Activity** menu, the A/V receiver automatically switches to the correct audio input for the device.

Setting Up A/V Receiver Control

Power and Volume

Perform this setup to control the A/V receiver power and volume with the TV's remote control.

To perform this setup you need:

- The remote controls for both the TV and the A/V receiver.
- An IR emitter cable available from Mitsubishi.

Before You Begin

- Connect your A/V receiver to the TV and any additional devices. See "Setting Up TV Inputs," page 10 and "TV Connections," page 14.
- 2. Connect the IR emitter cable to the TV and position the IR emitter where it can send signals to the A/V receiver. See "IR Emitter Placement," page 46.
- Set the TV's remote control to TV mode using the side button.

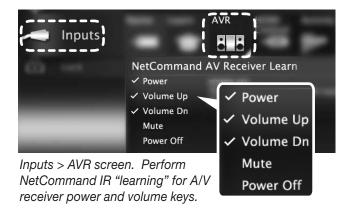
Setup to Control A/V Receiver Power and Volume

- 1. Open the *Inputs > AVR* screen in one of two ways:
 - If using the New Device Found screen for the A/V receiver, highlight NetCommand and press ENTER to open the AVR screen.
 - If performing NetCommand setup at any time after Auto Sensing:
 - Press **MENU**, highlight **Inputs**, and highlight **AVR** to open the **AVR** menu.
- 2. The first function highlighted in the AVR screen is always Power. Aim the TV's remote control at the TV and press ENTER to begin learning for Power.

IMPORTANT

To hear audio sent from the TV to the A/V receiver, you must have:

- Physically connected the TV to the A/V receiver via the analog or digital audio output.
- Assigned, if needed, the name AVR if using an HDMI A/V receiver.
- "Learned" the IR codes for the A/V receiver inputs.
- Assigned the TV's audio output to the correct input in the NetCommand Inputs > AVR menu.
- Selected the A/V receiver as the audio source.
 Press MORE then 9 (AUDIO), then ▲ ▼ to show the Speakers option, then ▶ to select the A/V Receiver.



- When the Power text starts flashing, aim the A/V receiver's remote control at the TV and hold the POWER or POWER ON key until a check mark appears next to Power.
 - If the text stops flashing before the check mark appears, repeat this step.
 - To remove the key from NetCommand control, press the CANCEL key while the key name is highlighted.
- 4. Press the ▼ key on the TV's remote control to highlight other keys in the list. Repeat steps 2 and 3 for each additional function you wish to control through NetCommand.
- 5. If the A/V receiver has a separate POWER OFF key, press ▼ on the TV's remote to highlight Power Off. Repeat steps 2 and 3 to "learn" the POWER OFF key. If the device has no POWER OFF key, skip this step.
- **6.** When finished "learning" the power and volume keys, either
 - To watch TV, press BACK.
 - To continue with NetCommand setup to control switching of A/V receiver inputs, highlight NEXT and press ENTER.

Automatic Audio or Audio/Video Switching

The following setups enable the A/V receiver to switch automatically to the correct input when you select a device in the TV's *Activity* menu.

Three different connection arrangements are described here. Review the descriptions to find the setup needed for your equipment.

To hear digital surround sound from a source device you must use the setup described for Case 2.

To set up control of an A/V receiver you need:

- The remote controls for the TV and A/V receiver.
- An IR emitter cable available from Mitsubishi.
- Connecting cables

IMPORTANT

All audio from what you are watching on the TV is always available from both the TV's AVR AUDIO OUTPUT and DIGITAL AUDIO OUTPUT jacks.

To use the digital surround sound capabilities of your A/V receiver however, you must connect the audio output from your DVD player, satellite receiver, or cable box directly to the A/V receiver.

Before You Begin

- Connect your A/V devices to the TV and connect your A/V receiver to the audio outputs on the TV and the DVD player. Note the name of the device connected to each A/V receiver input. See initial setup, page 10, and "TV Connections," page 14.
- 2. Position NetCommand IR emitters as described in "IR Emitter Placement," page 46.
- Set the TV's remote control to TV mode using the side button.
- 4. Open the *Inputs > AVR* menu, highlight NEXT and press ENTER to display the device-key-learning menu.

Case 1: Automatic A/V Receiver Switching to the TV Audio Input

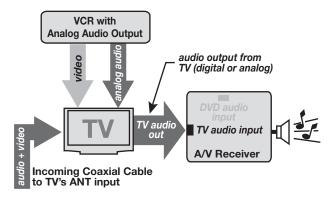
Most devices are set up to use the TV's audio output like the VCR in this example; analog audio from the device is sent through the TV to the A/V receiver's TV audio input.

Use this setup for:

 Audio Available from TV only. Send audio from the ANT input to the A/V receiver from the TV's analog or digital audio output.

Use this setup to make the A/V receiver switch to its designated TV audio input when viewing programming from the **ANT** input.

- Analog Stereo Audio. Audio from sources with only analog stereo output (such as a VCR) can be sent either directly to the A/V receiver or through the TV first.
 Mitsubishi recommends you send audio through the TV as shown in the example. The TV converts analog audio to digital format to send to a digital A/V receiver.
- HDMI Digital Stereo Audio. Digital stereo audio from an HDMI connection is available both in digital and analog format from the TV's analog and digital audio output jacks.



Important: To use this setup, you must connect the TV's audio output to the A/V receiver's TV audio input jack.

- In the *Inputs > AVR* menu, press ▲ ▼ to highlight
 TV audio out as the A/V receiver input to control.
- 2. Press ENTER on the TV's remote control.
- While the text TV audio out is flashing, press and hold the TV INPUT key on the A/V receiver's remote control.
- 4. When a check appears next to TV audio out, release the TV INPUT key.
 - If the text stops flashing before the check mark appears, repeat this step.
 - To erase the IR code just "learned," press CANCEL while the name is highlighted.
- **5.** Press **MENU** if finished or continue with Case 2 setup if you want to control surround sound switching for another audio source.



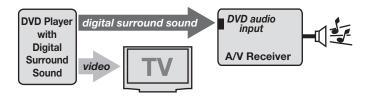
Case 1: NetCommand setup for controlling A/V receiver switching to the A/V receiver's audio input from the TV. The list displayed represents inputs in use. The device names are those you assigned in the New Device Found screen or in the Inputs > Name menu.

Case 2: Automatic A/V Receiver Switching to a Surround Sound Device

Note: Use this setup to send digital surround sound from a source device directly to your external sound system. For non-surround sound source devices, Mitsubishi recommends using the setup for Case 1, in which audio is sent through the TV.

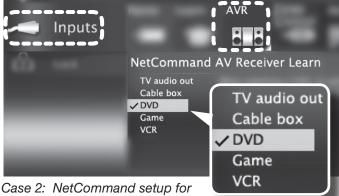
A device can send digital surround sound such as Dolby Digital or DTS directly to the A/V receiver. The device might be a DVD player, cable box, or satellite receiver, and could have HDMI output. A DVD player is used in this example.

Your setup may include additional devices with digital surround sound connected directly to the A/V receiver. These devices might be a DVD player plus a cable box or satellite receiver.



Case 2: A/V receiver audio from a device providing surround sound directly to the A/V receiver

- In the Inputs > AVR menu, press ▲ ▼ to highlight the name of the A/V receiver input to control. In this example, it is the DVD input.
- 2. Press ENTER on the TV's remote control.



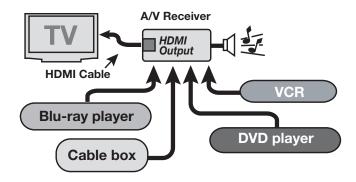
case 2. Net Command setup for controlling A/V receiver switching to the A/V receiver's DVD input. The list

to the A/V receiver's DVD input. The list contains connected inputs with names assigned during Auto Input Sensing.

- While the text DVD is flashing, press and hold the DVD INPUT key on the A/V receiver's remote control.
- When a check appears next to DVD, release the DVD INPUT key.
 - If the text stops flashing before the check mark appears, repeat this step.
 - To erase the IR code just "learned," press CANCEL while the name is highlighted.
- If finished, highlight EXIT and press ENTER or continue to set up additional A/V receiver audio sources.

Case 3: Automatic Audio and Video Switching via HDMI

If your A/V receiver has an HDMI output, it may be convenient to route video signals from multiple devices over a single cable to the TV. Use this procedure to set up NetCommand control of the A/V receiver's audio and video switching over a single HDMI cable. The connected source devices can be analog, digital, or a mixture or the two. When this setup is complete, you can use the TV's *Activity* menu to select a video device connected to the A/V receiver.



More About Using an HDMI Connection

- Audio from devices connected directly to the TV
 can be heard from the TV speakers only. To send
 audio to the A/V receiver from such devices, use
 one of the optional audio connections shown in the
 diagram on this page. For example, use an optional
 audio connection if you wish to use the A/V receiver
 speakers to hear audio from:
 - The ANT input
 - A game or camcorder connected to the convenience input (INPUT 3).
- To use NetCommand to supplement HDMI control of a CEC-enabled A/V receiver, the recommended setup sequence is:
 - 1. Connect the HDMI cable.
 - 2. Enable HDMI control (New Device Found screen).
 - Connect the secondary digital audio cable, if desired.
 - 4. Perform NetCommand setup.

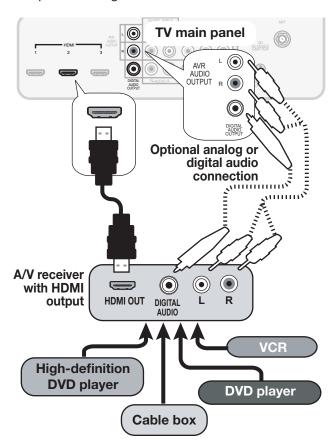
If you connect to HDMI after performing NetCommand setup for the A/V receiver, the NetCommand setup will be lost.

 In some cases, audio from a device connected to the A/V receiver may not be passed over the HDMI cable to the TV speakers. In these cases you must use the A/V receiver speakers to hear audio.

Before You Begin

To complete these steps you will need:

- The remote controls for both the TV and the A/V receiver.
- An IR emitter cable available from Mitsubishi.
- An HDMI-to-HDMI cable to connect the A/V receiver to the TV and cables necessary to connect devices to the A/V receiver.
- Connect the A/V receiver to the TV with an HDMIto-HDMI cable. Do not connect the optional audio cable at this time.
- If desired, enable HDMI Control of a CEC-enabled A/V receiver. See Appendix C, "HDMI Control of CEC Devices."
- Connect your audio/video devices to the A/V receiver. Note the name of the device connected to each A/V receiver input. This information will be needed later to set up NetCommand's automatic input switching.



Multiple video inputs through a single HDMI cable. You can connect multiple video devices to an A/V receiver that has an HDMI output. The optional audio connection allows you to hear, through the A/V receiver, devices connected to the TV only, e.g., an antenna on the ANT input.

- **4.** If using an optional audio cable between the TV and A/V receiver, connect it.
- Connect the IR emitter cable to the TV and position the IR emitter where it can send signals to the A/V receiver. See "IR Emitter Placement," page 46.

Setup to Control Automatic Audio and Video Switching via HDMI

When this setup is complete, the "learned" A/V receiver input will appear in the TV's *Activity* menu as a selectable input.

- 1. Power on the A/V receiver.
- Set the TV's remote control to TV mode using the side button.
- 3. Power on the TV.
- When the New Device Found screen displays, select device name AVR if it is not recognized automatically.
- Navigate to the *Inputs > AVR* menu or, from within the *New Device Found* screen, highlight NetCommand and press ENTER.



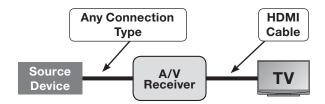
To set up A/V switching over HDMI, choose your devices from a list. Unlike the device list described for Case 2, this is a generic list containing more than just the devices detected in your setup.

- 6. In the *Inputs > AVR* menu, press ▲ ▼ to highlight the name of the A/V receiver input to control. In this example, it is the **DVD** input.
- 7. Press **ENTER** on the **TV's** remote control.
- While the text DVD is flashing, press and hold the DVD INPUT key on the A/V receiver's remote control.
- When a check appears next to DVD, release the DVD INPUT key.
 - If the text stops flashing before the check mark appears, repeat this step.
 - To erase the IR code just "learned," press CANCEL while the name is highlighted.
- 10. If there are no more devices to set up, highlight EXIT and press ENTER or continue to set up additional A/V receiver audio/video sources.

NetCommand Control of a Device Connected to an HDMI A/V Receiver

Use this setup to have NetCommand control a device sending audio and video through the A/V receiver to the TV via HDMI.

You must have already completed the procedure under "Setup to Control Automatic Audio and Video Switching via HDMI" on this page. That procedure placed an icon in the *Activity* menu for the device (input) connected to the A/V receiver.



- Set up NetCommand control of A/V receiver audio/ video switching via HDMI as described on this page.
- **2.** Press **BACK** to close any open menus and return to normal TV viewing.
- Press ACTIVITY.
- Highlight the icon for the A/V receiver input you wish to control.
- **5.** Press **ENTER** to switch the TV to the A/V receiver and the A/V receiver to the input.
- 6. Open the *Inputs > Learn* menu.
- 7. Perform NetCommand "learning" for the connected)device by following the steps in "Initial NetCommand Setup," page 47.

Appendices

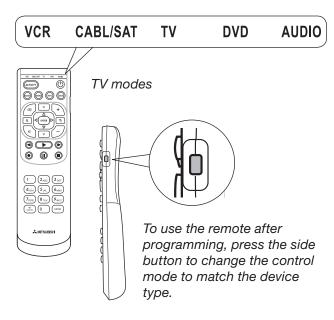
Appendix A:	Programming the Remote Control 5	8
Appendix B:	Bypassing the Parental Lock 6	ì5
Appendix C:	HDMI Control of CEC Devices 6	5 7
Appendix D:	TV Care	'0
Appendix E:	Troubleshooting	′3

Appendix A: Programming the Remote Control

This appendix explains programming the TV's remote control to operate other A/V devices. This is distinct from NetCommand control.

Functions Available for Other A/V Devices

The TV's remote control can be programmed to operate other types and brands of A/V products. The functions performed in each switch position vary depending on the product. Not all functions work for all models. The most common functions available are listed on this page.



The MORE Menus

The **MORE** key displays a menu showing additional key functions available for a device type after programming the remote control.

IMPORTANT

Some manufacturers may change their products or they may use more than one remote control system. The TV's remote control may be unable to operate your A/V equipment in these cases.

VCRs and DVRs

- CHANNEL UP/DN
- POWER
- **SLEEP** (from **MORE** menu)
 - (FAST FORWARD)
- II (PAUSE)
- (PLAY)

- (RECORD)
- (REVERSE)
- (STOP)
- GUIDE (DVR only)
- MENU (DVR only)
- 0-9 Number Buttons

Mitsubishi VCRs are compatible with some additional keys.

Cable Boxes and Satellite Receivers

(not all functions for all models)

- PAGE UP/DOWN
- CANCEL
- CHANNEL UP/DN
- ENTER
- GUIDE
- POWER
- AV4>
- LAST (ENTER; for channels on some models)
- 0-9 Number Keys

- The record/playback keys:
- (FAST FORWARD)
- (PAUSE)
- (PLAY)
- (RECORD)
- (REVERSE)
- (STOP)

A/V Receivers

- MUTE
- POWER
- SLEEP (from MORE menu)
- VOLUME
- 0-9 Number Buttons
- Direct Input Selection buttons: numbers and LAST (on some Mitsubishi models)

CD Players

(not all functions for all models)

- SLEEP (from MORE menu)
- (FAST FORWARD)
- II (PAUSE)
- (PLAY)
- (REVERSE)
- (STOP)
- 0-9 Number Buttons

DVD Players

(not all functions for all models)

- CANCEL (on some models)
- CHANNEL UP/DN (for track skip on some models)
- ENTER
- MENU
- POWER
- SLEEP (from MORE menu)
- · AV4>

- (FAST FORWARD)
- II (PAUSE)
- (PLAY)
- (RECORD)
- (REVERSE)
- (STOP)
- 0-9 Number Keys

Programming the Remote Control

 Press the side button on the remote control to change to the correct mode for the product you want to control. Refer to the table below. Only one of each device type can be controlled in each mode.

Mode	Affected Device
CABLE/SAT	Cable Box DTV Receiver Satellite Receiver
VCR	VCR DVR DVD Player/Recorder
DVD	DVD Player/Recorder DVR VCR
AUDIO	A/V Receiver Audio Amplifier CD Player

- Press and hold POWER on the remote control for several seconds until the mode indicator blinks twice and goes off.
- **3.** Release the **POWER** key.
- Enter the first five-digit code listed for your equipment
 - The mode indicator blinks twice when you start to enter the code and then once for each additional keypress.
 - The mode indicator blinks twice when you finish entering a valid code.
 - If you need to start over or wish to exit programming mode, temporarily change to a different mode using the side button.
- Point the remote control at the equipment and press POWER. If the product has no power on/off function, press a different key, such as (PLAY),
 (STOP), VOLUME UP, or MUTE.
 - If the equipment responds, the remote control is properly programmed.
 - If the equipment does not respond, repeat steps 2–4 with the next five-digit code listed for your equipment.
- **6.** Once you have found the correct code, write it in the space below for future reference.

Mode	Device Type	Code
CABLE/SAT		
VCR		
DVD		
AUDIO		

IMPORTANT

You may need to reprogram the remote control after changing the batteries. Record the codes for each mode in the space provided to make this faster.

Code Verification

To determine the code programmed for any mode:

- 1. Set the mode to the one you wish to verify.
- Press and hold POWER on the remote control for several seconds until the mode indicator blinks twice and goes off.
- 3. Press keys 9 9 0
- 4. Press 1 and count the blinks of the power key. Write down the number of blinks as the first digit of the code.
- **5.** Repeat step 4 for the second, third, fourth, and fifth digits of the code.

Audio Lock: Universal A/V Receiver Control

With Audio Lock enabled, the remote control operates volume and mute on the A/V receiver in all modes set by the side button. Activate Audio Lock if you normally use an A/V receiver with your TV and other A/V equipment.

- Program AUDIO mode for your A/V receiver as described in "Programming the Remote Control" on this page.
- With the remote control in AUDIO mode, hold POWER on the remote control for several seconds until the mode indicator blinks twice and goes off.
- Press keys 9 9 3 ENTER
 The mode indicator will blink twice to indicate Audio Lock is active.

To Reset the Remote Control to Operate Volume and Mute for the TV Speakers

- Press and hold POWER for several seconds until the mode indicator blinks twice and goes off.
- Press keys 9 9 3 VOLUME UP.
 The mode indicator will blink four times to indicate Audio Lock has cleared.

Programming Codes

ers
41100, 40577
41742
41583
40674
40892
41879
41461
41879
41934
40892
40331
41837
40892
41802, 41145
40892
41483
41934
40892
40892
40331
40354

ramana	40334
Cable Boxes	•
A-Mark	10144, 10008
ABC	10237, 10008
Acorn	10237, 10000
Action	10237
Active	10237
Americast	10899
Amino	11822, 11602
Archer	10237
Bell South	10899
Century	10008
Cisco	11982, 11877, 10877
Comcast	11982
Digeo	12187
Director	10476
GE	10144
General	10476
Instrument	
GoldStar	10144
Hitachi	10008
i3 Micro	11602
Insight	10476
Jerrold	10476
Memorex	10000
Motorola	11376, 11254, 10476
Myrio	11822, 11602
Nova Vision	10008
Novaplex	10008
Pace	11877, 10877, 10237,
	10008
Panasonic	11982, 10144, 10008,
	10000

Cable Boxe	s
Paragon	10525, 10008, 10000
Penney	10000
Philips	11305
Pioneer	11877, 10877, 10533,
	10144
Pulsar	10000
Quasar	10000
Runco	10000
Samsung	10144
Scientific	11877, 10877, 10477,
Atlanta	10237, 10008, 10000
Sejin	11602
Sony	11006
Sprucer	10144
Toshiba	10000
US Elec-	10008
tronics	
Videoway	10000
Zenith	10899, 10525, 10000
00.01	
CD Players	

CD Players	
Acoustic	40420
Research	
Akai	40083
Burmester	40420
California	40029
Audio Labs	
DKK	40000
Fisher	40000
Garrard	40420
Hafler	40173
Harman/	41202, 40173, 40100,
Kardon	40083
Inkel	40180
Integra	40101
JVC	41294, 40072
Kenwood	40626, 40190, 40037,
	40029, 40000
KLH	41711, 41318
Koss	41317
LG	41208
Magnavox	40038
Marantz	40626, 40435, 40180,
	40038, 40029
McIntosh	41703
MCS	40029
Memorex	40420, 40000
MGA	40083
Miro	40000
Mitsubishi	40098, 40083
Modulaire	40420, 40180, 40087,
	40000
MTC	40420
NAD	41208
Onkyo	41327, 40101
Optimus	40420, 40087, 40037,
	40000
Panasonic	40752, 40388, 40029

CD Players	
	40420
Parasound	
Penney	40029
Philips	40626
Pioneer	41087
Proceed	40420
Quasar	40029
RadioShack	40420, 40180, 40000
RCA	40420
Realistic	40420, 40180, 40087,
	40000
Roksan	40435
Rotel	40420
Sansui	40000
Sanyo	40087, 40000
Sharp	40180, 40037
Sherwood	41950, 40180
Sony	41364, 40490, 40185,
-	40100, 40000
Symphonic	40180
Tascam	40420
TDK	41208
Teac	40490, 40420, 40180
Technics	40029
Victor	40072
Wards	40087
Yamaha	41292, 40490, 40036
Yorx	40000

A/V Receiver	'S
ADC	40531
Aiwa	41641, 41405, 41388,
	41243, 40189, 40121
Alco	41390
AMC	41077
Anam	41609, 41074
Arcam	41189
Audiotronic	41189
Audiovox	41390
Bose	41933, 41841, 41629,
	41253, 41229, 40639
Cairn	40189
Capetronic	40531
Carver	41289, 41189, 40189,
	40121
Curtis	40014
Mathes	
Daewoo	41250
Denon	41360, 41306, 41142,
	40121
Emerson	40531
Fisher	41801
Grundig	40189
Harman/	41306, 41304, 41289,
Kardon	40891, 40189, 40110
Hitachi	41801
Insignia	42169, 41893, 41077,
	41030

Programming Codes, continued

A/V Receiver	'S
Integra	41805, 41320, 41298,
integra	40842
IDI	
JBL JVC	41306, 40110
JVC	42331, 41643, 41495,
17	41374, 41282, 41058
Kawasaki	41390
Kenwood	41570, 41569, 41313
KLH	41428, 41390
LG	42197, 41293
Linn	40189
Magnavox	41514, 41269, 41266,
	41189, 40531, 40189
Marantz	41289, 41269, 41189,
	40891, 40189
McIntosh	41289
Micromega	41189, 40189
Mitsubishi	41957, 41922, 41921,
	41920, 41393
Myryad	41189
Nakamichi	41313
Onkyo	41905, 41805, 41320,
Officyo	41298, 40842
Optimus	41074, 41023, 40531,
Optimus	
Danasania	40121, 40014
Panasonic	42967, 41764, 41763,
	41633, 41548, 41518,
	41509, 41316, 41308,
	41288, 41275
Philips	41269, 41266, 41189,
	40891, 40531, 40189
Pioneer	41935, 41384, 41123,
	41023, 40630, 40531,
	40150, 40014
Polaroid	41508
Polk Audio	41289, 40189
Proscan	41254
RadioShack	41609
RCA	41609, 41511, 41390,
110/1	41254, 41123, 41074,
Realistic	41023, 40531 41609, 40121
	·
Revox	40189
Rio	41869
Samsung	41500, 41304, 41295
Sansui	41189, 40189
Sanyo	41801
Sherwood	42169, 41905, 41077
Sherwood	42169
Newcastle	44000
Sonic Blue	41869
Sony	41858, 41822, 41759,
	41758, 41658, 41622,
	41558, 41441, 41382,
	41258, 41131, 41058
Stereophonics	
Sunfire	41313
Teac	41390, 41074
	,

A/V Receiv	ers
Technics	41518, 41308
Thorens	41189
Toshiba	41788, 41123, 40842
Venturer	41390
Wards	40189, 40014
Yamaha	41815, 41476, 41376,
	41375, 41331, 41276,
	41176, 41023, 40176
YBA	41921
Zenith	41293

20111111	71200
Satellite Red	ceivers
	11170, 10775
Chaparral	10216
Crossdigital	11109
DirecTV	11856, 11749, 11640,
D.1.001.1	11639, 11609, 11442,
	11414, 11392, 11377,
	11142, 11109, 10819,
	10749, 10639, 10566,
Dish	10392, 10247, 10099 11775, 11505, 11170,
Network	10775, 11303, 11170,
	10775
System	11775 11505 10775
Dishpro Echostar	11775, 11505, 10775 11775, 11505, 11170,
Echostar	
	10775
Expressvu	11775, 10775
Fortec Star	11821 11377
Funai	
GE GOI	10566
Hitachi	11775, 10775
Houston	11250, 10819, 10749 10775
HTS	11775, 10775
Hughes	11749, 11442, 11142,
Network	10749
	10749
Systems Humax	11790, 11781
Innova	10099
JVC	11775, 11170, 10775
LG	11414
Magnavox	10722
Mitsubishi	10749
Netsat	10099
Panasonic	10701, 10247
Pansat	11807
Philips	11749, 11442, 11142,
i illipo	10775, 10749, 10722,
	10099
Proscan	10566 10392
RadioShack	10566, 10392 10775, 10566 11442, 11392, 11142,
RCA	11//2 11302 111/2
ПОЛ	10855, 10775, 10566,
	10392, 10143
Sameuna	11609, 11442, 11377,
Samsung	11276, 11142, 11109
	11270, 11142, 11109

Satellite Receivers		
SKY	10099	
Sony	11640, 11639, 10639	
Thomson	10566, 10392	
Tivo	11442, 11142	
Toshiba	11749, 10790, 10749	
UltimateTV	11640, 11392	
Uniden	10722	
Zenith	11856, 11810	

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UltimateTV	11640, 11392
Uniden	10722
Zenith	11856, 11810
VCRs	
A-Mark	20278, 20046, 20037,
	20000
ABS	21972
Accurian	20000
Admiral	20479, 20209, 20060,
	20048, 20047, 20039
Adventura	20037, 20000
Aiko	20278
Aiwa	20124, 20037, 20000
Akai	20242, 20175
Alba	20278, 20209
Alienware	21972
Allegro	20039
America	20278
Action	
American	20081, 20035
High	
Amstrad	20000
Astra	20035
Audiovox	20278, 20038, 20037
Avis	20000
Bell &	20479, 20048, 20046,
Howell	20039, 20035, 20000
Bell	21944
ExpressVu	
Broksonic	20479, 20209, 20184,
Broksonio	20121
Calix	20037
Candle	20038, 20037
Canon	20035
Carver	20081, 20035
CCE	20278
Cineral	20278
Citizen	20479, 20278, 20209,
Citizeri	
Classis	20037, 20035, 20000
Classic	20037 20278, 20060, 20045,
Colortyme	
Calt	20035
Colt	20000
Craig	20047, 20037
Criterion	20000
Crosley	20081, 20035, 20000
Crown	20278
Curtis	20432, 20278, 20162,
Mathes	20060, 20035, 20000
CyberPower	21972
Daewoo	20278, 20046, 20045,
	20037

Programming Codes, continued

VCRs	
Daytron	20278, 20037
Dell	21972
Denon	20081, 20042
DirecTV	20739
Dish	21944
Network	
System	
Dishpro	21944
Dual	20000
Durabrand	20039, 20038
Dynatech	20000
Echostar	21944
Electrohome	20209, 20060, 20043,
	20037, 20000
Electrophonic	
Emerald	20184, 20121
Emerex	20032
Emerson	21593, 20593, 20479,
	20278, 20209, 20184,
	20121, 20043, 20037,
	20000
Expressvu	21944
Fisher	20047, 20046, 20039,
risitei	
F "	20000
Fuji	20035, 20033
Fujitsu	20000
Funai	21593, 20593, 20278,
	20037, 20000
Garrard	20000
Gateway	21972
GE	20060, 20048, 20035,
	20000
Gemini	20060
Genexxa	20278, 20037, 20000
GFM	21593
Go Video	20614, 20432
GOI	21944
GoldStar	20278, 20039, 20038,
Goldotai	
0	20037, 20035, 20000
Goodmans	20278, 20081, 20037,
	20000
Gradiente	20000
Granada	20081, 20042
Grundig	20081
Harley	20000
Davidson	
Harman/	20081, 20075, 20038
Kardon	
	20046
Headquarter	_UUTU
Headquarter	
Hewlett	21972
Hewlett Packard	21972
Hewlett Packard HI-Q	21972 20047, 20035, 20000
Hewlett Packard	21972 20047, 20035, 20000 20089, 20045, 20042,
Hewlett Packard HI-Q Hitachi	21972 20047, 20035, 20000 20089, 20045, 20042, 20037, 20035, 20000
Hewlett Packard HI-Q	21972 20047, 20035, 20000 20089, 20045, 20042,
Hewlett Packard HI-Q Hitachi	21972 20047, 20035, 20000 20089, 20045, 20042, 20037, 20035, 20000
Hewlett Packard HI-Q Hitachi Howard	21972 20047, 20035, 20000 20089, 20045, 20042, 20037, 20035, 20000

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VCRs	
HTS	21944
Hughes	20739, 20042
Network	
Systems	
Humax	21988, 21797, 20739
Hush	21972
Hytek	20047, 20000
iBUYPOWER	21972
Instant	20035
Replay	
Jensen	20067
JVC	21944, 20067
KEC	20278, 20037
Kenwood	20067, 20046, 20038
Kodak	20037, 20035
KTV	20000
LG Lister	20038, 20037
Linksys	21972
Lloyd's	20038, 20000
Logik	20081 20000
Logik Lumatron	20278
Luxor	20046
LXI	20067, 20042, 20037,
	20000, 20042, 20007,
Magnasonic	20593, 20278, 20037,
Magnasonic	20000
Magnavox	21593, 20618, 20593,
Magnavox	20563, 20081, 20048,
	20039, 20037, 20035,
	20009, 20037, 20033,
Marantz	20081, 20038, 20035
Marta	20037
Matsui	20209, 20037
Matsushita	20162, 20081, 20035
Media	21972
Center PC	
MEI	20035
Memorex	20479, 20278, 20209,
	20162, 20048, 20047,
	20046, 20039, 20037,
	20035, 20000
Metz	20037
MGA	20060, 20043
Microsoft	21972
Mind	21972
Minolta	20042
Mitsubishi	20443, 20242, 20214,
	20173, 20075, 20067,
	20060, 20048, 20047,
	20043, 20042, 20000
Motorola	20048, 20035
MTC	20000
MTX	20000
Multitech	20039, 20000
NEC	20067, 20038
Nikko	20278, 20037

VCRs	
Nikkodo	20278, 20037
Niveus	21972
Media	21072
Northgate	21972
Olympus	20162, 20035
Onkyo	20222
Optimus	21062, 21048, 20593,
Optimido	20432, 20162, 20048,
	20047, 20037, 20035,
	20000
Orion	20479, 20278, 20209,
Onon	20184, 20121, 20000
Panama	20035
Panasonic	21062, 20616, 20614,
i anasonic	20225, 20162, 20035,
	20000
Penney	20162, 20081, 20067,
renney	20047, 20042, 20038,
	20047, 20042, 20036,
Dontov	20037, 20035, 20000
Pentax Philco	20042 20479, 20209, 20081,
PHICO	
Dhiling	20035, 20000
Philips	21181, 21081, 20739,
	20618, 20616, 20209,
	20162, 20081, 20048,
	20045, 20035, 20000
Pilot	20037
Pioneer	20162, 20081, 20067,
	20042
Polk Audio	20081
Portland	20278
Presidian	21593
Proscan	20060
Protec Pulsar	20000 20278, 20039
Quarter	20046
Quartz	20047, 20046, 20035
Quartz	20162, 20035
RadioShack	-
Hadioonack	20046, 20037, 20035,
Dadiy	20000 20037
Radix Randex	20037
RCA	20880, 20060, 20048,
NOA	20045, 20042, 20035,
	20045, 20042, 20055,
Declictio	
Realistic	20278, 20162, 20121,
	20048, 20047, 20046,
Donley #1/	20037, 20035, 20000
ReplayTV	20616, 20614
Ricavision	21972
Runco	20039 20075
Salora	
Samsung	20739, 20432, 20060,
Caplay	20045, 20038, 20000
Sanky	20048, 20039

Programming Codes, continued

VCRs	
Sansui	20479, 20209, 20067,
Odriodi	20000
Sanyo	20479, 20159, 20047,
Sariyo	
0	20046, 20000
Scott	20184, 20121, 20045,
	20043
Sears	20209, 20162, 20067,
	20060, 20048, 20047,
	20046, 20045, 20043,
	20042, 20039, 20037,
	20035, 20033, 20000
Sharp	20848, 20048, 20047,
•	20032, 20000
Shintom	20039, 20000
Siemens	20037
Signature	20479, 20060, 20048,
Olgitataro	20046, 20037, 20035,
Cingor	20000 20037
Singer	
Sonic Blue	20616, 20614
Sonographe	20046
Sony	21972, 21032, 20636,
	20067, 20047, 20046,
	20035, 20033, 20032,
	20000
Soundmaster	20000
Stack 9	21972
STS	20042
SV2000	20000
SVA	20000
Sylvania	21593, 20593, 20081,
•	20043, 20035, 20000
Symphonic	21593, 20593, 20000
Systemax	21972
Tagar	21972
Tagar Systems	21972
Tagar Systems Tandy	21972 20000
Tagar Systems Tandy Tashiko	21972 20000 20037
Tagar Systems Tandy	21972 20000 20037 20081, 20067, 20048,
Tagar Systems Tandy Tashiko Tatung	21972 20000 20037 20081, 20067, 20048, 20000
Tagar Systems Tandy Tashiko Tatung	21972 20000 20037 20081, 20067, 20048, 20000 20067, 20000
Tagar Systems Tandy Tashiko Tatung	21972 20000 20037 20081, 20067, 20048, 20000 20067, 20000 20162, 20037, 20035,
Tagar Systems Tandy Tashiko Tatung Teac Technics	21972 20000 20037 20081, 20067, 20048, 20000 20067, 20000 20162, 20037, 20035, 20000
Tagar Systems Tandy Tashiko Tatung Teac Technics Teknika	21972 20000 20037 20081, 20067, 20048, 20000 20067, 20000 20162, 20037, 20035, 20000 20037, 20035, 20000
Tagar Systems Tandy Tashiko Tatung Teac Technics Teknika Tevion	21972 20000 20037 20081, 20067, 20048, 20000 20067, 20000 20162, 20037, 20035, 20000 20037, 20035, 20000 20479
Tagar Systems Tandy Tashiko Tatung Teac Technics Teknika Tevion Thomas	21972 20000 20037 20081, 20067, 20048, 20000 20067, 20000 20162, 20037, 20035, 20000 20037, 20035, 20000 20479 20000
Tagar Systems Tandy Tashiko Tatung Teac Technics Teknika Tevion Thomas Thomson	21972 20000 20037 20081, 20067, 20048, 20000 20067, 20000 20162, 20037, 20035, 20000 20037, 20035, 20000 20479 20000 20060
Tagar Systems Tandy Tashiko Tatung Teac Technics Teknika Tevion Thomas Thomson Tisonic	21972 20000 20037 20081, 20067, 20048, 20000 20067, 20000 20162, 20037, 20035, 20000 20037, 20035, 20000 20479 20000 20060 20278
Tagar Systems Tandy Tashiko Tatung Teac Technics Teknika Tevion Thomas Thomson	21972 20000 20037 20081, 20067, 20048, 20000 20067, 20000 20162, 20037, 20035, 20000 20479 20000 20060 20278 21944, 20739, 20636,
Tagar Systems Tandy Tashiko Tatung Teac Technics Teknika Tevion Thomas Thomson Tisonic Tivo	21972 20000 20037 20081, 20067, 20048, 20000 20067, 20000 20162, 20037, 20035, 20000 20037, 20035, 20000 20479 20000 20060 20278 21944, 20739, 20636, 20618
Tagar Systems Tandy Tashiko Tatung Teac Technics Teknika Tevion Thomas Thomas Thomson Tisonic Tivo	21972 20000 20037 20081, 20067, 20048, 20000 20067, 20000 20162, 20037, 20035, 20000 20479 20000 20479 20000 20278 21944, 20739, 20636, 20618 20000
Tagar Systems Tandy Tashiko Tatung Teac Technics Teknika Tevion Thomas Thomson Tisonic Tivo TMK TNIX	21972 20000 20037 20081, 20067, 20048, 20000 20067, 20000 20162, 20037, 20035, 20000 20479 20000 20479 20000 20278 21944, 20739, 20636, 20618 20000 20037
Tagar Systems Tandy Tashiko Tatung Teac Technics Teknika Tevion Thomas Thomas Thomson Tisonic Tivo	21972 20000 20037 20081, 20067, 20048, 20000 20067, 20000 20162, 20037, 20035, 20000 20479 20000 20479 20000 20278 21944, 20739, 20636, 20618 20000 20037 21988, 21972, 21008,
Tagar Systems Tandy Tashiko Tatung Teac Technics Teknika Tevion Thomas Thomson Tisonic Tivo TMK TNIX	21972 20000 20037 20081, 20067, 20048, 20000 20067, 20000 20162, 20037, 20035, 20000 20479 20000 20479 20000 20278 21944, 20739, 20636, 20618 20000 20037
Tagar Systems Tandy Tashiko Tatung Teac Technics Teknika Tevion Thomas Thomson Tisonic Tivo TMK TNIX	21972 20000 20037 20081, 20067, 20048, 20000 20067, 20000 20162, 20037, 20035, 20000 20479 20000 20479 20000 20278 21944, 20739, 20636, 20618 20000 20037 21988, 21972, 21008,
Tagar Systems Tandy Tashiko Tatung Teac Technics Teknika Tevion Thomas Thomson Tisonic Tivo TMK TNIX	21972 20000 20037 20081, 20067, 20048, 20000 20067, 20000 20162, 20037, 20035, 20000 20479 20000 20278 21944, 20739, 20636, 20618 20000 20037 21988, 21972, 21008, 20209, 20045, 20043,
Tagar Systems Tandy Tashiko Tatung Teac Technics Teknika Tevion Thomas Thomson Tisonic Tivo TMK TNIX Toshiba	21972 20000 20037 20081, 20067, 20048, 20000 20067, 20000 20162, 20037, 20035, 20000 20479 20000 20060 20278 21944, 20739, 20636, 20618 20000 20037 21988, 21972, 21008, 20209, 20045, 20043, 20000

•	a	
	VCRs	
	Touch	21972
	Trix	20037
	Ultra	20278, 20045
	Vector	20045
	Vector	20184, 20038
	Research	
	Victor	20067
	Video Con-	20242, 20045
	cepts	
	Videomagic	20037
	Videosonic	20000
	Viewsonic	21972
	Villain	20000
	Voodoo	21972
	Wards	20479, 20081, 20060,
		20048, 20047, 20046,
		20045, 20043, 20042,
		20038, 20037, 20035,
		20033, 20000
	Wharfedale	20593
	White	20479, 20278, 20209,
	Westinghouse	20000
	World	20479, 20209
	XR-1000	20035, 20000
	Yamaha	20038
	Zenith	21139, 20479, 20278,
		20209, 20039, 20037,
		20033, 20000
	ZT Group	21972
	DVD and Blu	ı-ray Players
	3D LAB	30539, 30503
	Accurian	31416, 30675
	Acculati	01710, 00010

Z1 Group	21972
DVD and Blu	u-ray Players
3D LAB	30539, 30503
Accurian	31416, 30675
Acoustic	30730
Solutions	00700
Adcom	31094
Afreey	30698
Aiwa	30641, 30533
Akai	31089, 30770, 30705,
	30695
Alba	30717, 30672
Alco	30790
Allegro	30869
Amphion	30872
Media	
Works	
AMW	30872
Apex Digital	31061, 31056, 31020,
	31004, 30797, 30796,
	30794, 30755, 30717,
	30672, 30533
Arrgo	31023
Aspire	31168, 31407
Digital	
Astar	31489
Audiovox	31041, 30790, 30717
Awa	30730

DVD and Blu	u-ray Players
B&K	30662, 30655
BBK	31224
Bel Canto	31571
Design	
Blaupunkt	30717
Blue Parade	
Blue Sky	30699, 30695
Bose	32023, 31895
Brandt	30651
Broksonic	30695
California	30490
Audio Labs	00430
Celestial	31020
Centrex	31004, 30672
	30831
Cinea	30869, 30833
CineVision	30809, 30833
Citizen	32116, 31587, 31277,
	31003, 30695
Clairtone	30571
Coby	31351, 31177, 31165,
	31107, 31086, 31077,
	30852, 30778
Craig	30831
Creative	30539, 30503
Curtis	31087
Mathes	
CyberHome	31537, 31502, 31129,
•	31117, 31024, 31023,
	30874, 30816
Cytron	30705
Daewoo	31242, 31234, 31172,
	31169, 30869, 30833,
	30784, 30770, 30705
Dansai	30770
Daytek	30872 30770
Decca	
Denon	32258, 30634, 30490
Denver	30778 31407
Desay	
DigitalMax	31738
Digitrex	30672
Disney	31270, 30675
DiViDo	30705
Dual	31068, 30675
Durabrand	31127, 31023
DVD2000	30521
	32116, 31003
Emerson	31268, 30675, 30591
Enterprise	30591
Entivo	30539, 30503
Enzer	30770
ESA	31268
Firstline	30651
Fisher	30670
Funai	31268, 30675
Gateway	31158, 31077, 31073
GE	30815, 30717, 30522

Programming Codes, continued

	u-ray Players
GFM	31268, 30675
Go Video	31730, 31304, 31158,
	31144, 31099, 31075,
	31044, 30869, 30833,
	30783, 30744, 30741,
	00747, 00747, 00741,
0.1.101	30717, 30715, 30573
GoldStar	30869, 30741
Goodmans	30790
GPX	30769, 30699
Gradiente	30651, 30490
Greenhill	30717
Grundig	30705, 30539
Harman/	30702, 30582
Kardon	
Hello Kitty	30831
Hitachi	30664, 30573
Hiteker	30672
Humax	31588, 31500
iLo	31348
Initial	30717
Insignia	32095, 31268, 30675
Integra	31769, 30627, 30571
IRT	
	30783
JBL	30702
JMB	30695
JSI	31423
JVC	31550, 31275, 31164,
	30867, 30623, 30558
jWin	31049
Kawasaki	30790
Kenwood	30534, 30490
KLH	31149, 31020, 30790,
	30717
Kloss	30533
Koss	31423, 31061, 30769,
	30651
Lasonic	30798, 30627
Lecson	31533
	31127
Lenoxx	30869, 30741, 30591
LG Lita On	
LiteOn	31738, 31656, 31440,
	31416, 31158, 31058
Loewe	30741, 30511
Logix	30783
Magnasonic	30675, 30651
Magnavox	31506, 31354, 31268,
	30675, 30646, 30539,
	30503
Marantz	30675, 30539, 30503
McIntosh	31533, 31273
Medion	30651
Memorex	31270, 30831, 30695
Microsoft	32083, 30522
Minato	30752
Mintek	30839, 30717
Mustok	31521, 30521
Mustek	30730

d	
DVD and Blu	u-ray Players
Myryad	30894
NAD	30741
Naiko	30770
NEC	30869, 30785
Nesa	30717
NexxTech	31402
Norcent	31265, 31107, 31003,
	30872
Onkyo	31769, 30627, 30503
Орро	31224, 30575
Optimus	30571
Oritron	30651
Palsonic	30852, 30672
Panasonic	31762, 31641, 30703,
	30632, 30571, 30503,
	30490
Philco	30675
Philips	32084, 32056, 31506,
	31354, 31340, 31267,
	31158, 30675, 30646,
	30539, 30503
Phonotrend	30699
PianoDisc	31024
Pioneer	31571, 31512, 31460,
1 1011001	30632, 30631, 30571,
	30525, 30142
Polaroid	31086, 31061, 31020
Polk Audio	30539
Portland	30770
Presidian	31738, 30675
Proceed	30672
Proscan	30522
Prosonic	30699
ProVision	30778
Qwestar	30651
Radionette	30741
RadioShack	30571
RCA	31769, 30822, 30790,
	30717, 30571, 30522
Realistic	30571
Reoc	30752
Revoy	30699
Rio	30869
Rotel	31178, 30623
Rowa	31004
Saba	30651
Sampo	30752, 30698
Samsung	31075, 31044, 30820,
	30744, 30573, 30490,
	30199
Sansui	30695
Sanyo	30873, 30695, 30675,
Oplostit	30670
Schneider	30783
Schwaiger	30752
Sensory	31158
Science	

DVD and Blu	ı-ray Players
Sharp	32250, 31256, 30752,
Ondip	30675, 30630
Sharper	31117
	31117
Image	04077 04040 00770
Sherwood	31077, 31043, 30770,
	30633
Sherwood	31077
Newcastle	
Shinsonic	30839, 30533
Slim Art	30784
SM Elec-	30730
tronic	00.00
Sonic Blue	31099, 30869, 30783,
Sollic Dide	
0	30715, 30573
Sony	31536, 31533, 31516,
	31431, 31070, 31033,
	30864, 30533
Sungale	31074
SVA	30860, 30717
Sylvania	31268, 30675
Symphonic	31268, 30675
TAG	30894
McLaren	
Tatung	30770
Teac	30790, 30717, 30571
Technics	30703, 30490
<u>Technika</u>	30770
Technosonic	
Tevion	30651
Theta Digital	30571
Thomson	30522, 30511
Tivo	31588, 31512, 31503
Toshiba	31769, 31608, 31588,
	31515, 31510, 31503,
	31154, 30695, 30573,
	30539, 30503
Tredex	30800
Unimax	30770
United	30730
Universum	30591
Urban Con-	30539, 30503
cepts	
US Logic	30839
V	31226, 31064
Venturer	30790
Vizio	31226, 31064
Wesder	30699
Xbox	32083, 30522
Yamaha	30646, 30545, 30539,
	30497, 30490
Yamakawa	30872
Zenith	30869, 30741, 30591,
∠ ∪ 111111	
70115	30503
Zeus	30784
Zoece	31265

Appendix B: Bypassing the Parental Lock

Mitsubishi Home Theater TV

C9 Series 737 Series 837 Series

Bypassing the Parental Lock

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

- View a locked program
- View the locked TV
- Cancel the lock
- Enter the Lock menus

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.

When entering the *Lock* menu, you are 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 BACK 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 are retained.
- If all locks are turned off and you exit the menus when prompted for a new code, then the previous code is erased.

IMPORTANT

Cut along the dotted line and file bypass instructions in a safe place for future reference.

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.

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Appendix C: HDMI Control of CEC Devices

Many new 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.
- 1. 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 Displays No HDMI Control Option" on this page if there is no HDMI Control option.



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 the name you want to assign the device.



5. Highlight On.



 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.

8. 837 Series. To supplement HDMI control with NetCommand IR control, see page 45.

If the *New Device Found* Screen Displays 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 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.
 - **837 Series.** Use the TV's NetCommand IR control (page 45).

Appendix C: HDMI Control of CEC Devices, continued

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

Note: Connect the A/V receiver to the TV with an HDMI cable before making other connections.

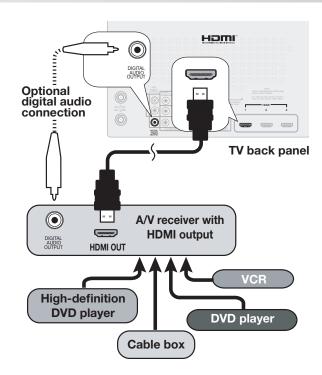
- Enable HDMI Control for the A/V receiver as described in "Enabling HDMI Control of CEC Devices" on the previous page.
- 2. Power on the HDMI device you wish to connect to the A/V receiver (such as a disc player, cable box, or satellite receiver). Allow the device to complete the power-on sequence (boot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



- 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.
- **9. 837 Series.** If desired, perform NetCommand IR Learning to supplement CEC functions. You must first connect and place IR emitters for the devices. See page 45.



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.

Appendix C: HDMI Control of CEC Devices, continued

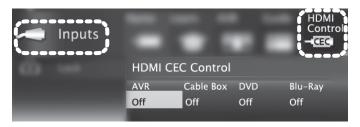
Resolving CEC Conflicts

Because each manufacturer selects which CEC functions to support, some devices can 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 setup menu of one of the devices.

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

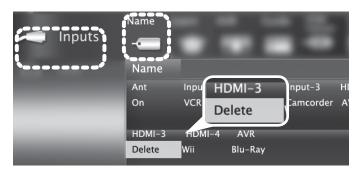
- 1. Press **MENU** on the TV remote control.
- Highlight Inputs > HDMI Control and press ENTER to open the menu.
- Move to the device name and press ▲ ▼ to select
 Off to turn off the TV's ability to control the device.
- Press MENU to clear the menu.



Inputs > HDMI Control menu

Removing an HDMI Device

- **1.** Power off the device.
- 2. Disconnect the HDMI cable.
- Press MENU on the TV remote control to enter the TV main menu.
- Highlight *Inputs > Name* and press ENTER to open the menu.
- 5. Select **Delete** from the HDMI input names.
- 6. Press MENU 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 Activity 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
	◆▶▲▼	CHANNEL UP/DN	GUIDE
•	ENTER	Digits 0-9, CANCEL	MENU
4	CANCEL (to cancel)	ENTER	

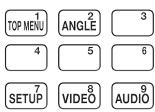
If you have a CEC-enabled A/V receiver, CEC-enabled devices connected to the A/V receiver with an HDMI cable may also be controllable. They can be selected from the TV's *Activity* menu.

CEC-enabled A/V receiver functions that may be available:

- Try the VOLUME UP/DOWN, MUTE, and menu-navigation kevs.
- To open the A/V receiver menu, follow these steps:
 - 1. While watching TV, press MORE then 9 (AUDIO).
 - 2. Press ▲ until the Speakers option displays.
 - 3. Press ▶ to select AVR as the source.
 - **4.** Press **MORE** and then **1 (MENU)** to display the menu.

The MORE Menu

Press **MORE** on the TV's remote control to see a menu of additional supported functions for the current CEC-enabled device. To issue a command, press the number key indicated in the menu.



MORE key: Sample menu for a CEC-enabled DVD player





Appendix D: TV Care

Lamp-Cartridge Replacement and Cleaning

CAUTION: If the television is on, press POWER to turn it off. Unplug the television and allow it to cool for at least one hour before attempting to replace the lamp cartridge.

Lamp

The light source for this television is a lamp, which is part of a lamp cartridge assembly. The life of the lamp can vary, based on the lamp itself, the air temperature around the TV while it is operating, the selected lamp mode, and your viewing patterns. Warmer air or poor ventilation shorten the lamp life, as does use of the **Bright** lamp mode and turning the television on and off



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 915B403001.

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

To Order a New Lamp

To Receive a Replacement Lamp Under Warranty

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

Important: All lamps replaced under warranty must be returned to Mitsubishi where they will be inspected for defect verification.

To Purchase a Replacement Lamp After Warranty

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

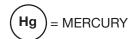
Lamp Part Number 915B403001

Lamp-Substitution Alert

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

WARNING

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



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

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.

Appendix D: TV Care, continued

Lamp-Cartridge Replacement

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.
- 2. After the lamp has cooled, remove the cover of the lamp compartment, located on the back of the TV. Refer to figures 1 and 2. Use a #2 (medium) Phillips screwdriver to loosen the screw securing the cover. Keep the screw and cover for re-installation
- 3. With a medium Phillips screwdriver, loosen the two screws securing the lamp cartridge until they disengage from the mating threads. These are captive screws and cannot be separated from the lamp cartridge.
- **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

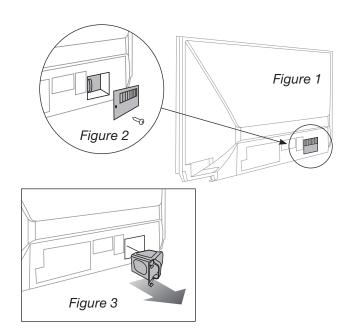
- Do not touch the glass parts of the new lamp cartridge. Insert the new cartridge into the TV in the same orientation as the old cartridge. Push on the cartridge housing until it is fully seated.
- **2.** Gently tighten the screws with the screwdriver. AVOID OVERTIGHTENING!
- **3.** Replace the plastic cover and retaining screws.
- **4.** WASH YOUR HANDS THOROUGHLY, AS THIS LAMP CONTAINS MERCURY.

Disposal of the Old Lamp Cartridge

Lamp under warranty: All lamps replaced under warranty must be returned to Mitsubishi. Use the return shipping label provided and send to Mitsubishi Digital Electronics, America, 625 Braselton Parkway, Suite 200, Braselton, GA 30517.

IMPORTANT: Lamps found to be without defect will be returned and charged back to the sender.

Lamp no longer under warranty: Contact your local authorities or the Electronic Industries Alliance at www.eiae.org for lamp-disposal or recycling instructions. Do not dispose of the old lamp with common trash.



Use only replacement lamp part number 915B403001.

Lamp-Cartridge Filter Cleaning

If the TV shuts off after displaying the message "TV will shut down in a few seconds. Please check if the air flow is blocked" and/or the **STATUS** LED is yellow, the air filter may need cleaning. The air filter is part of the lamp cartridge. Use the following procedure to clean the filter.

- 1. Remove the lamp cartridge from the TV as described under "Removing the Old Lamp Cartridge." Do not tilt or rotate the cartridge. Do not touch the glass parts of the lamp cartridge.
- 2. Holding the lamp cartridge horizontal (do not tilt or rotate), use a soft dry brush or vacuum cleaner to remove any dust that may be present on the mesh filter. Do not use liquids. See figure 4.
- **3.** Reinstall the lamp cartridge as described under "Installing the New Lamp Cartridge."

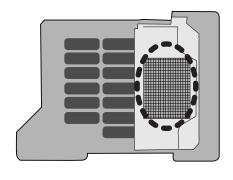


Figure 4
Keep lamp
cartridge horizontal
and remove dust
from the mesh filter
using a vacuum
cleaner or soft dry
brush.

Appendix D: TV Care, continued

Cleaning Recommendations

Normally, light dusting with a dry, non-scratching duster will keep your TV clean. If cleaning beyond this is needed, please use the following guidelines:

First, turn off the TV and unplug the power cord from the power outlet.

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, microfiber, or a clean cloth diaper, lightly moistened with water. Dry with a second dry, soft, non-abrasive cloth.
- For oily dirt, add a few drops of mild liquid detergent, such as dishwashing detergent, to the water used to moisten the cloth. Rinse with a second cloth moistened only with water. Dry with a third dry, soft, non-abrasive cloth.

Screen

- Follow the instructions for the top and sides, wiping gently in an up and down motion.
- Clean the entire screen evenly, not just sections of the screen.
- Do not allow liquid to drip down the screen, as some liquid may enter the TV through the gap between the screen and screen frame.
- You may purchase Mitsubishi Screen Cleaner, part number CLEANER-VSS, by calling (800) 553-7278.

General Cleaning Precautions

- DO NOT allow liquid to enter the TV through the ventilation slots or any crevice.
- DO NOT use any strong or abrasive cleaners, as these can scratch the surfaces.
- DO NOT use any cleaners containing ammonia, bleach, alcohol, benzene, or thinners, as these can dull the surfaces.
- DO NOT spray liquids or cleaners directly on the TV's surfaces.
- DO NOT scrub or rub the TV harshly. Wipe it gently.

Care of the Remote Control

Remote Control Tips

- For longer life, use alkaline batteries.
- Do not mix old and new batteries.
- Be within 20 feet of the equipment.
- Do not press two or more keys at the same time unless instructed to do so.
- Do not allow the unit to get wet or become heated.
- Keep the unit out of direct sunlight.
- Avoid dropping on hard surfaces.
- Do not use harsh chemicals to clean. Use only a soft, lightly moistened cloth.

Resetting the Remote Control

If **TV** mode is selected and the TV does not respond properly, reset the remote control.

- Press and hold POWER for several seconds until the mode indicator blinks twice and goes off.
- **2.** Release the **POWER** key.
- 3. Press keys 0 0 9 3 5 and the mode indicator will blink twice when you finish entering the code. When entering the code, pause for a moment between each key press to ensure it is recognized.

Low-Battery Indicator

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

Appendix E: Troubleshooting

TV Reset Comparison Guide

You can resolve many common TV problems using the reset functions described in the following table. See also the troubleshooting suggestions later in this appendix.

IMPORTANT

Before you change sound or picture settings: If picture or sound settings seem wrong for a broadcast

channel (a channel from the **ANT** input, a cable box, or satellite receiver), first check other channels from the same input before changing settings. If most other channels from the same input seem correct, there is likely a problem with the broadcast rather than with the TV. Use care in this case, as changes you make to fix problems on individual channels also affect all other channels on the same input.

Reset Name	When to Use	How to Use	Resulting Action
Format	When the picture shape seems incorrect, use MORE > 0 (FORMAT) to change the shape of the picture.	Press the MORE key and then repeatedly press 0 (FORMAT) to cycle through the available aspect ratios.	The last-used format for a signal type is memorized for each input. The next time the same input and the same signal type is viewed, the last-used format will be recalled.
PerfectColor [™] Reset or PerfectColor [™] / PerfecTint [™] Reset (837 Series) (for the single input currently being watched)	When the color intensities seem out of balance, use the PerfectColor/PerfecTint reset to reset the color balances to the original factory settings. Both PerfectColor and PerfecTint are reset at the same time.	 While viewing the input to be reset, press MENU and go to Adjust > Picture+ > PerfectColor. Press ENTER to display the PerfectColor adjustment screen. Press CANCEL to reset the colors. 	All PerfectColor/PerfecTint sliders are reset to the original center position. The PefectColor/PerfecTint settings for other inputs remain unchanged.
A/V Memory Reset (for the single input currently being watched)	When audio and/ or video settings for a single input seem incorrect, use A/V Memory Reset to return the input to the original factory settings.	 While viewing the input to reset, press MENU and go to Adjust > Reset. Press ENTER to highlight the Reset icon. Press ENTER again to reset. 	All Audio and Video settings for the individual input are reset except for the Listen To, Language, audio Balance, Closed Caption, and Advanced Picture settings.

Service and Customer Support

Service

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

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

Customer Support

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

Important

All lamps replaced under warranty must be returned to Mitsubishi where they will be inspected for defect verification.

Reset Name	When to Use	How to Use	Resulting Action
A/V Reset (for all inputs)	To reset audio and video adjustments for all inputs to the original factory settings.	While viewing the TV, press the control-panel buttons ACTIVITY and VOLUME DOWN at the same time for at least two seconds.	All Audio and Video settings are returned to the original factory settings, including Listen To, Language, audio Balance, Closed Captions, and Format.
Channel Memorization	To erase and re-memorize channels on the ANT input.	 While viewing the TV, press MENU to display the main menu. Navigate to the Initial> Channel menu. Press ENTER. Highlight the reception mode, e.g. Ant Air. Highlight Scan. Press ENTER to start channel memorization. 	All previously memorized channels for the antenna input are erased and a new set of memorized channels is created. To add or delete individual channels, see <i>Initial > Channel > Edit</i> menu instructions on page 39.
Lock Menu Pass Code	To change your Lock menu pass code	See the cutout page from Appendix B, page 65.	Allows establishment of a new code.
Control-Panel Lock Release	To re-enable the control-panel buttons after activation of the Control-Panel Lock	Press and hold the ACTIVITY button on the control panel for ten seconds. If the TV is powered off, you can now press the POWER button to turn it on.	Allows the control panel to be unlocked if the remote control is misplaced.
Auto Input Sensing for HDMI	If the New Device Found screen does not appear when you connect an HDMI device.	 Disconnect the HDMI device. Delete the HDMI input in the Inputs > Name menu (see page 40). Power on and connect the new device. 	The New Device Found screen will display.
System Reset	If the TV does not turn on or off, does not respond to the remote control or control- panel buttons, or has audio but no video.	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. The changes you made most recently, before using SYSTEM RESET , may be lost.
TV Reset IMPORTANT: Use this reset only if other troubleshooting has been unsuccessful.	To reset all consumeraccessible settings and all memories to the original factory defaults. Use TV Reset if the TV can respond to controls but TV behavior is abnormal. CAUTION: All ownerperformed setups and adjustments will be erased.	 While viewing the TV, press MENU to display the TV main menu. With the main menu displayed, press number keys 1 2 3 to display the Reset menu. READ THE ON-SCREEN WARNING AND INSTRUCTIONS. If you do not wish to use this reset, press BACK or MENU to back out. If you do wish to use the reset, press ENTER to erase all memories and settings. 	The TV will start the initialization process and then turn off. Power on the TV and the front green LED will start flashing. All memory and settings outlined in this Owner's Guide will need to be set again.

Gei	General TV Operation			
Symptom		Remarks		
1.	A fan is running even while the TV is powered off.	The room is too warm. When the TV is off, internal components continue to draw power and must be cooled by the fan.		
2.	The fan gets louder after the TV is shut off.	Normal operation. The fan speeds up to cool the lamp quickly after the TV has been shut off.		
3.	The TV remote control does not work.	 Check that the batteries are fresh and installed correctly. Check that the control mode on the remote is set to TV. Be no more than 20 feet from the TV when using the remote control. Program the remote control to operate the TV or other device. Reset the remote control. 		
4.	When I try to use the remote control, the POWER key blinks five times.	Replace the batteries.		
5.	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 to perform system reset. 		
6.	When a device is selected from the Activity menu, the screen is blue or black (no signal source).	 Make sure the selected device is turned on. Begin play of the device. 		
7.	You have forgotten your Lock menu pass code.	See "Bypassing the Parental Lock", Appendix B.		
8.	Rating restrictions are not working.	 Open the Lock > Parental Lock 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. 		
9.	On-screen displays appear each time you change a function.	Normal TV operation.		
10.	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. Clean the air filter on the lamp cartridge. 		
11.	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 Inputs > HDMI Control 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 Inputs > Name 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	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 avoid 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 CHANNEL Up/Down. 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 ACTIVITY key. Make sure the Lock > Parent 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.

TV	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. Also, the TV's lamp requires a few moments to heat up to full brightness.	
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 caused the TV to turn off to prevent damage. Wait for the green light to stop flashing and turn the TV on again. If the TV does not stay on, press the POWER button on the control panel for at least eight seconds to perform System Reset. 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 button 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.	 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.	There is a large black or gray rectangle on the screen.	The TV's analog closed captioning has been set to "text" mode in the Captions menu. Turn off because there is no text information being broadcast.			
5.	You cannot view a picture when playing a VHS tape.	Check your VCR's owner's guide for further troubleshooting.			
6.	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.			
7.	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. 			
8.	A color program appears as a black and white image, or the colors are dim, or the screen is black.	The PerfectColor color balance has been incorrectly set. Reset the PerfectColor balance.			
9.	Picture from an HDMI input is noisy (poor quality).	Upgrade a Category 1 (unmarked) HDMI cable to a Category 2 high-speed HDMI cable.			
10.	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 MORE and then 0 (FORMAT) to change. 			

So	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 "Listen to:" setting may be set to SAP (analog program from the ANT input) but no SAP is being broadcast. Check that the Speakers option is set to TV to hear sound from the TV speakers. Possibly sound is being sent to one of the audio outputs for an A/V receiver or headphones. If using an A/V receiver, check that the Speakers option is set to AV Receiver 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. 	

Sound		
	Symptom	Remarks
2.	The sound does not match the screen picture.	The TV's "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 main 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 convenience panel, and any other device sending audio to the TV only. If using a NetCommand-controlled A/V receiver, NetCommand may be selecting the wrong A/V receiver audio input. Check the A/V receiver's NetCommand setup in the Inputs > AVR menu.
4.	Cannot select an audio-only device; it does not appear in the Activity menu.	Plug an unused video plug into the Y/VIDEO jack to activate Auto Input Sensing and make the audio device selectable in the Activity menu.
5	Sound is coming from the TV speakers instead of the A/V receiver.	Disconnect headphones. Connect the TV's AUDIO OUT to the A/V receiver and select AV Receiver from the New Device Found screen.

Net	NetCommand IR Control (NetCommand-equipped models only)			
Symptom		Remarks		
1.	Cannot see the menu from the A/V Receiver.	•	A/V Receiver Set Up for Audio-Only Switching The A/V Receiver is not connected to any video input of the TV. To check the A/V Receiver menu, temporarily plug into an unused input of the TV, such as Input 3. Exit the New Device Found screen and select Input 3 from the Activity menu. Press MENU on the A/V receiver's remote control.	
			A/V Receiver Set Up for Audio and Video Switching over HDMI Use the MENU key on the A/V receiver's remote control.	
		•	A/V Receiver with HDMI Control Switch the remote control to AUDIO mode. Press the MORE key and then 1 (Menu).	
2.	NetCommand unable to learn specific device keys.	•	A/V Device does not use IR format for remote control signal. ITT and RF formats cannot be learned. Room lighting may affect the signal. Have the remotes very close (6 inches or less) to the TV during Learning. If learning a Mitsubishi remote control, make sure mode is not set to TV. Some, but not all, device key functions can be learned by NetCommand. For example, POWER and PLAY may be learned, but other functions may not. The signal from the remote control may not be strong enough. Insert fresh batteries and try Learning again.	

Net	NetCommand IR Control (NetCommand-equipped models only)		
Symptom		Remarks	
3.	The A/V receiver is the selected audio source but there is no sound.	A/V Receiver Set Up for Audio-Only Switching Check to see if the A/V Receiver power is turned on. With A/V receiver power turned on, redisplay the Activity menu and press ENTER to allow NetCommand to correctly select the A/V Receiver input. Incorrect setup in the Inputs > AVR menu. Check the device connection assigned in the AVR menu.	
		 A/V Receiver Set Up for Audio and Video Switching over HDMI Check to see if the A/V Receiver power is turned on. If the device is connected only to the TV (e.g., on ANT or a front panel input), verify that the TV's AUDIO OUTPUT is connected to the A/V receiver. The A/V receiver is not switching properly because you have not learned the IR codes for the A/V receiver inputs to which your devices are connected. 	
4.	There is no sound from the A/V receiver for my DVD player or other surround sound device even though I learned the IR code for the A/V receiver's DVD input or other input. (A/V Receiver Set Up for Audio-Only Switching)	NetCommand A/V receiver setup for the DVD player or digital surround sound device or other device is not switching properly. See "Case 2: Automatic A/V Receiver Switching to a Surround Sound Device," page 54, and perform A/V receiver setup for a digital surround sound device.	
5.	There is no sound or picture from the A/V receiver for my DVD player or other device connected to the A/V receiver; the A/V receiver should be sending video to the TV over an HDMI cable. (A/V Receiver Set Up for Audio and Video Switching over HDMI)	The NetCommand A/V receiver setup is not switching audio and video inputs properly because you did not "learn" the A/V receiver's IR codes for the device inputs. See "Case 3: Automatic Audio and Video Switching via HDMI," page 55.	
6.	I've selected my DVD player or other surround sound device in combination with the TV speakers but hear no sound from the TV speakers.	 A/V Receiver Set Up for Audio-Only Switching If you have only an audio connection from the device to the A/V receiver, a physical audio connection from the device to the TV is also required. Connect the left and right audio output from the device to the appropriate TV audio input. Now you can hear audio from the device through either the TV speakers or the A/V receiver. To switch audio sources, press MORE 9 (Audio), press ▼ to show the Speakers option, then press ▼ to select AV Receiver or TV. A/V Receiver Set Up for Audio and Video Switching over HDMI 	
		With your DVD player connected to the A/V receiver, only video is passed from the A/V receiver to the TV because of copy-protection restrictions on the HDMI signal	
7.	I "learned" the RECORD key for my VCR/DVR but when I pressed the RECORD key, the VCR/DVR did not record anything.	Check that the VCR or DVR is receiving a signal directly from your cable box or satellite receiver.	

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BEFORE REQUESTING SERVICE, please review the instruction booklet to insure proper installation and correct customer control adjustment. If the problem persists please arrange for warranty service.

- 1. TO OBTAIN WARRANTY SERVICE:
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- b. Warranty service will be provided in your home or, if required, at an authorized service shop, provided that your television is located within the geographic territory customarily covered by an authorized MITSUBISHI service center. If not, you must either deliver your television to an authorized service location at your own expense, or pay for any travel and/or transportation costs the service center may charge to and from your home. Actual service labor will be provided without charge.
- c. Proof of purchase date from an authorized MITSUBISHI dealer is required when requesting warranty service. Present your sales receipt or other document which establishes proof and date of purchase. THE RETURN OF THE

OWNER REGISTRATION CARD IS NOT A CONDITION OF COVERAGE UNDER THIS LIMITED WARRANTY. However, please return the Owner Registration Card so that we can contact you should a question of safety arise which could affect you.

- d. To obtain a replacement lamp, order the lamp directly from the MDEA Parts Department at (800) 553-7278.
- 2. THIS LIMITED WARRANTY DOES NOT COVER:
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- b. Damage to the lenticular screen or Fresnel lens, screen frame, cosmetic damage or to any other damage where such damage is caused by unauthorized modification, alteration, repairs to or service of the product by anyone other than an authorized MITSUBISHI service center; physical abuse to or misuse of the product (including any failure to carry out any maintenance as described in the Owner's Guide including air vent cleaning or any product damaged by excessive physical or electrical stress); any products that have had a serial number or any part thereof altered, defaced or removed; product use in any manner contrary to the Owner's Guide; freight damage; or any damage caused by acts of God or other factors beyond the reasonable control of MDEA, such as power surge damage caused by electrical system or lightning. This limited warranty also excludes service calls where no defect in the product covered under this warranty is found, service calls related to unsatisfactory audio or visual reception or signal unless caused by a defect in the product that is covered under this limited warranty, all costs, expenses or any other damages arising from product installation, or set-ups, any adjustments of user controls (including contrast, brightness, color, tint, fine tuning, sharpness), other adjustment necessary to prepare the unit for display or use, connection with any external audio receiver, antenna, cable or satellite systems, or service of products purchased or serviced outside the U.S.A. Please consult the operating instructions contained in the Owner's Guide furnished with the product for information regarding user controls.
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For questions, call Consumer Relations at 800-332-2119

To order replacement or additional remote controls or lamp cartridges,

Visit our website www.mitsuparts.com

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800-553-7278

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. The changes you made most recently, before using **SYSTEM RESET**, may be lost.