

DLP® HIGH-DEFINITION TELEVISION

MODELS

C Series

Y Series

WD-Y577, WD-Y657

733 Series

WD-57733, WD-65733, WD-73733

734 Series

WD-57734, WD-65734, WD-73734

OWNER'S GUIDE

- 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, lamp cartridges, or Owner's Guides, visit our website at www.mitsuparts.com or call 800-553-7278.
- Guidelines for setting up and using your new widescreen TV start on page 11.

TEXAS INSTRUMENTS



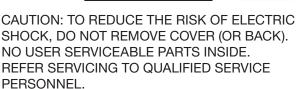
For Your Records

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	



CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN





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: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

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

FCC Declaration of Conformity

Product:	Projection Television Receiver	
Models:	WD-C657 WD-57733, WD-65733, WD-73733 WD-Y577, WD-Y657 WD-57734, WD-65734, WD-73734	
Responsible Party:	Mitsubishi Digital Electronics 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:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by Mitsubishi could cause harmful interference and would void the user's authority to operate this equipment.

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Important Information About Your TV

Installation Notes

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-57733 WD-Y577 WD-57734	MB-57PB
WD-65733 WD-Y657 WD-65734	MB-65PB
WD-C657	MB-65G
WD-73733 WD-73734	MB-73PB

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 PRACTI-CAL.

Operating Notes

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 turning off the TV.

Lamp Replacement

For lamp-replacement instructions, see Appendix C.

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

Important: All lamps replaced under warranty must be returned to Mitsubishi where they will be inspected 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 915P061010.

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.

Top and Sides of the TV

- 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.
- Gently wipe down your TV with a soft, non-abrasive cloth such as cotton flannel 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.

IMPORTANT

DO NOT use any kind of abrasive cleaner on the surface of the TV screen.

TV Software

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

Important Safeguards

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

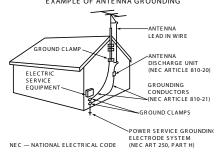
- 1. Read, Retain and Follow All Instructions. Read all safety and operating instructions before operating the TV. Retain the safety and operating instructions for future reference. Follow all operating and use instructions.
- 2. Heed Warnings. Adhere to all warnings on the appliance and in the operating instructions.
- 3. Cleaning. Unplug the TV from the wall outlet before cleaning. Do not use liquid, abrasive or aerosol cleaners. Cleaners can permanently damage the cabinet and screen. Use a lightly dampened cloth for cleaning.
- 4. Attachments and Equipment. Never add any attachments and/or equipment without approval of the manufacturer as such additions may result in the risk of fire, electric shock or other personal injury.
- 5. Water and Moisture. Do not use the TV where contact with or immersion in water is possible. Do not use near bath tubs, wash bowls, kitchen sinks, laundry tubs, in a wet basement, swimming pools, etc.
- 6. Accessories. Do not place the TV on an unstable cart, stand, tripod, or table. The TV may fall, causing serious injury to a child, adult or pet and serious damage to the TV. Use only with a cart, stand, tripod, bracket or table recommended by the manufacturer, or sold with the TV. Any mounting of the TV should follow the manufacturer's instructions, and should use mounting accessories recommended by the manufacturer.

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

- 7. Ventilation. Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the TV and to protect it from overheating. Do not block these openings or allow them to be obstructed by placing the TV on a bed, sofa, rug, or other similar surface. Nor should it be placed over a radiator or heat register. If the TV is to be placed in a rack or bookcase, ensure that there is adequate ventilation and that the manufacturer's instructions have been adhered to.
- 8. Power Source. This TV should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your appliance dealer or local power company.
- 9. Grounding or Polarization. This TV is equipped with a polarized alternating current line plug having one blade wider than the other. This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- 10. Power-Cord Protection. Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the TV.
- **11.** Lightning. For added protection for this TV during a lightning storm, or when it is left unattended and unused for long period of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the TV due to lightning and power-line surges.
- Power Lines. An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
 Overland the power lines or circuits as contact with them might be fatal.
- **13. Overloading.** Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
- 14. Object and Liquid Entry. Never push objects of any kind into this TV through openings as they may touch dangerous voltage points or short-out parts that could result in fire or electric shock. Never spill liquid of any kind on or into the TV.
- **15. 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.

Article 810 of the National Electric Code, ANSI/NFPA No. 70-2002, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

- **16.** Servicing. Do not attempt to service this TV yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 17. Damage Requiring Service. Unplug the TV from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - (a) When the power-supply cord or plug is damaged.
 - (b) If liquid has been spilled, or objects have fallen into the TV.
 - (c) If the TV has been exposed to rain or water.
 - (d) If the TV does not operate normally by following the operating instructions, adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV to its normal operation.
 - (e) If the TV has been dropped or the cabinet has been damaged.
 - (f) When the TV exhibits a distinct change in performance this indicates a need for service.
- 18. Replacement Parts. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
- 19. Safety Check. Upon completion of any service or repair to the TV, ask the service technician to perform safety checks to determine that the TV is in safe operating condition.
- **20.** Heat. The product should be situated away from heat sources such as radiators, heat registers, stoves or other products (including amplifiers) that produce heat.





Television Overview

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. Owner's Guide
- 4. Quick Reference Guide
- 5. Quick Connect Guide
- 6. Product Registration Card
- 7. Two-Ended IR Emitter (included with Y series and 734 models only)



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 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.

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 1.3 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. Many computer signals are compatible with Deep Color and x.v.Color.

Used with an adapter, these inputs also accept compatible digital DVI video signals. HDMI inputs provide additional high-performance, highdefinition 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® automatically recognizes when you plug in an input and prompts you to assign a name to it. The TV ignores any unused inputs, so the result is an uncluttered *Input Selection* menu where you can easily find and select connected devices by name.

Home Theater Control

NetCommand[®] with IR Learning (Y series and 734 series models only)

Selected Mitsubishi HDTVs offer 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.

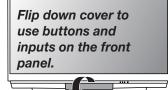
NetCommand for HDMI Devices (all models)

Some newer HDMI devices may be compatible with the TV's NetCommand for HDMI feature. Compatible devices can receive control signals through the HDMI connection. The TV's remote control may be able to operate some functions of these devices without any further setup.

TV Front Panel

Control Panel

Buttons on the front control panel duplicate commonly used keys on the remote control. The upper labels show control functions when no TV menus are displayed; the lower labels indicate func-



tions when TV menus are displayed or when a special function has been activated. See chapter 4, "TV Operation and Features," for the functions of these buttons.



Front Control Panel. Buttons on the front panel duplicate some keys on the remote control.

System Reset Button

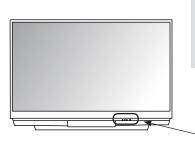
If the TV does not respond to the remote control, front panel controls, or will not power on/off, press the SYSTEM RESET button on the front panel.

The green **STATUS** LED will flash quickly for about one minute. When the green **STATUS** LED stops flashing, you may turn on the TV. Recent setting changes you made before using **SYSTEM RESET** may be lost.

A/V Reset

If you wish to reset the A/V (Audio/Video) settings back to the factory defaults:

- To reset all settings at once, press GUIDE and FORMAT on the front panel at the same time.
- To reset the defaults for individual inputs, use the **Reset** selection on the **AV** menu.



SYSTEM

RESET

Front Inputs

- **INPUT 3** provides an easily accessible set of input jacks for a camcorder, game, or other audio/video device.
- A USB photo port is included for viewing JPEG images.
- A fourth HDMI input is also provided on Y and 734 series models.



Front inputs on C series model WD-C657

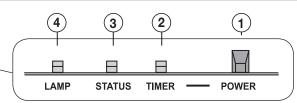
HDMI 4 input available on Y and 734 series models only. Note: If you connect a DVI device to HDMI 4, connect left and right audio cables to the **INPUT 3** L - AUDIO - R jacks to hear sound from the device.

Component video inputs are offered on the front panel of Y series, 733 series, and 734 series models. When using a standard video device, connect the single (yellow) video cable to the **VIDEO/Y** jack.

Front Panel Indicators and Power Button

- **1. POWER** button. Turns TV on and off; works the same as the **POWER** key on the remote control.
- 2. **POWER/TIMER** indicator. Lit when TV is powered on; flashes when TV is powered off and the auto-on TV Timer is set.
- 3. **STATUS** indicator (off during normal TV operation); blinks rapidly when TV is first plugged into an AC outlet.
- 4. **LAMP** indicator shows lamp condition (usually off during normal TV operation).

See the next page for more on front-panel indicators.



Indicator lights and POWER button

Front-F	Panel Indicator	S						
O Off	O Steady On	$\mathbb O$ Slow Blinking	Fast Blinking					
LAMP In				LAMP	STATUS	TIMER	- POWER	
LED Co	lor TV Condition		Additional Inform	ation				
• Newsel TV en en eten disceren ditten		Nie was all als a wetters						

None	0	Normal TV on or standby condition.	Normal operation.
Green	0	TV just powered off and lamp is cooling.	Starts to blink 30 seconds after turning off TV. TV can be turned on before blinking starts or after blinking stops, but not while the indicator is blinking. Normal operation.
Yellow	\circ	 Lamp access door is open or not secure. 	TV will not operate until lamp access door is secure. See Appendix C for installation information.
		2. No lamp installed.	TV will not operate without a lamp. See Appendix C for installa- tion information.
Red	\bigcirc	Lamp no longer illuminates and has reached the end of the lamp life.	Replace the lamp. The TV will not operate when the lamp no longer illuminates. See Appendix C for installation information.

STATUS Indicator

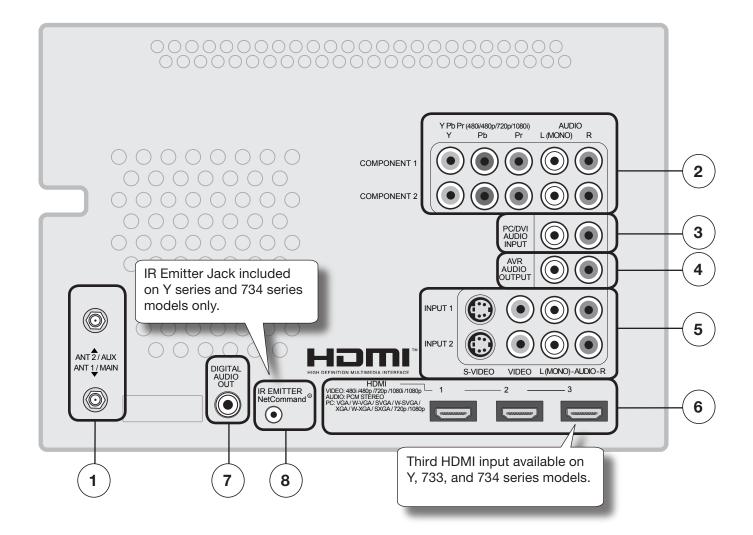
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LED Color	TV Condition	Additional Information
None O	Normal TV on or standby condition.	Normal operation.
Yellow O	TV is too hot.	 The TV will display a warning message and shut off if it overheats. Ambient room temperature may be too high. Turn off the TV and wait until the room temperature drops. Clear blocked air vents. Ensure at least a four-inch clear-ance on all sides of the TV. Clean the lamp-cartridge air filter. See Appendix C.
Red O	TV may require service.	Turn off the TV and unplug the set from the AC power source. Wait one minute and then plug the set back in. See Appendix E. If the LED is still on, contact your dealer or a Mitsubishi Authorized Service Center. Go to www.mitsubishi-tv.com or call 1-800-332-2119 to receive Authorized Service Center information.

TIMER Indicator

LED Co	lor	TV Condition	Additional Information
None	0	TV is powered off.	Normal operation.
Green	0	TV is powered on.	Normal operation.
Green	\bigcirc	TV powered off, auto-on timer is set.	Normal operation. TV can be turned on at any time.
Green	0	 TV just plugged into AC outlet. AC just restored after power failure. TV rebooting after System Reset used. TV rebooting after power fluc- tuation or receiving abnormal digital signals from a digital channel or digital device. 	Wait approximately one minute for blinking to stop before turning on. Normal operation.
		5. You have begun the procedure to update software from an authorized flash memory device.	

TV Back Panel



1. ANT 1/MAIN, ANT 2/AUX (Antenna)

If you are connecting an antenna or direct cable without a cable box, connect the main antenna or cable source to **ANT 1/MAIN**. Use **ANT 2/AUX** for a secondary source.

ANT 1/MAIN and **ANT 2/AUX** can each receive digital and analog over-the-air channels from a VHF/UHF antenna or non-scrambled digital/analog cable source.

2. COMPONENT Inputs (Audio and Video)

Y Pb Pr (480i/480p/720p/1080i)

Use these jacks to connect devices with component video outputs, such as DVD players, external HDTV receivers, or compatible video game systems. See Appendix A specifications for signal compatibility.

3. PC/DVI AUDIO INPUT

1. Television Overview

Use the **PC/DVI AUDIO INPUT** when connecting a DVI device to one of the TV's HDMI inputs using a DVI-to-HDMI cable. These jacks allow you to send left and right analog audio from your computer or other DVI device to the TV.

4. AVR AUDIO OUTPUT

Use **AVR AUDIO OUTPUT** to send analog audio of the program currently shown on the screen to an A/V surround sound receiver or stereo system. Digital audio from digital channels and HDMI devices is converted to analog audio by the TV. If using an analog A/V receiver or stereo system, this is the only audio connection needed between it and the TV.

TV Back Panel, continued

5. INPUT 1, 2 (Audio and Video)

INPUT 1 and **2** can be used to connect a VCR, Super VHS (S-VHS) VCR, DVD player, standard satellite receiver, or other A/V device to the TV. Each TV **INPUT** group consists of jacks for composite video, S-Video, and analog stereo audio. Note that when you connect to the S-video jack, the composite video jack is automatically disabled. **INPUT 3** is a third set of composite video and stereo audio jacks located on the front of the TV for convenience.

6. HDMI[™] Inputs

The HDMI 1.3 (High Definition Multimedia Interface) supports uncompressed standard and high-definition digital video formats and PCM digital stereo audio format.

Use the HDMI inputs to connect to EIA/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.

Mitsubishi recommends you use category 2 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 inputs can also accept digital DVI video inputs. To connect a DVI input, use an HDMI-to-DVI adapter or cable plus analog audio cables. Connect the analog audio cables to the **PC/DVI AUDIO INPUT** on the TV to receive left and right stereo audio from your DVI device.

The TV's HDMI inputs are compatible with many DVI-D and HDMI computer video signals. See chapter 2, "TV Setup" and Appendix A for additional information on PC compatibility.

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

These inputs are **Simplay**^{HD°} certified for proper interoperability with other products certified by SimplayTM.

HDMI Cable Categories

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

- **Category 2 Cables.** Newer, HDMI 1.3-compliant DVD players, video games, and set-top boxes require Category 2 cables. Use category 2 cables for these high-speed 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.** Unmarked cables are category 1 cables and are suitable for standard HDTV signals.

7. DIGITAL AUDIO OUT

This output sends Dolby Digital or PCM digital audio to your digital A/V surround sound receiver. Analog audio from analog channels and devices 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.

8. IR Emitter NetCommand®

Y series and 734 series models only

IR Emitters connected to this jack are used by the TV's NetCommand system to control external IR remote controlled analog devices such as cable boxes, VCRs, DVDs, satellite receivers and audio receivers.

2 TV Set-Up

Guidelines for Setting Up and Using Your New Widescreen TV

Getting Started

- **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 under "Important Information About Your TV."
- **3.** Install the batteries in the remote control. See the following page. See chapter 4, "TV Operation and Features" for more on use of the remote control.
- 4. Plug your TV into a power outlet. The TIMER indicator on the front of the TV will start blinking rapidly. After the TIMER indicator stops blinking, press the POWER key to power on the TV.
- 5. When the *Welcome* screen appears the first time you power on the TV, select a language for TV menus. You can later change the language through the *Setup* menu.
- 6. Connect your audio/video (A/V) devices to the TV and perform initial setup.
 - See chapter 3, "TV Connections" for connection diagrams.
 - See the following pages for initial TV setup and use of the Auto Input Sensing feature.
 - See chapter 6, "NetCommand," to perform NetCommand IR "learning" for control of your home theater (available on Y series and 734 series models).
- 7. Mitsubishi recommends you perform a channel scan. See "Initial TV Setup" on the following pages.
- 8. You can now start watching TV or you can perform additional setup and customization through the TV menus.

TV Operation

- 1. Review chapter 4, "TV Operation and Features," for TV features including:
 - Input Selection (viewing source). Select a connected program source to watch, such as a VCR, DVD player, or antenna. Press INPUT on the remote control to select from icons for the TV inputs. See "Choosing a Viewing Source."
 - **ChannelView.** Press **GUIDE** to see channel listings for programs on **ANT 1** and **ANT 2**.
 - **Picture Formats.** Press FORMAT to cycle through picture sizes and shapes to find the one best suited to the current program. See "TV Signals and Display Formats."
- To understand use of the *Input Selection* menu with NetCommand-controlled devices, see "Using NetCommand" (Y and 734 series models).
- **3.** To view JPEG photo files on the TV, see "Viewing JPEG Picture Files."

Additional TV Setup

- 1. Review chapter 5, "TV Menu Settings," to customize TV operation. Press the MENU key to enter the menu system. Some examples of settings you may wish to change include:
 - FAV. Use an on-screen menu to create custom lists of your favorite channels. See Setup > Edit.
 - **Order.** Rearrange the device icons in the **Input Selection** menu to put frequently used icons near the front. See the **Inputs** menu **Order** options.
 - Name. Change the device names that appear in the *Input Selection* menu. See the *Inputs* menu *Name* options.
 - **Parental Locks.** Restrict TV viewing by program rating, by channel, or by time of day. You can also disable the front-panel buttons if you have small children. See the **Lock** >

Parent menu, the *Lock* > *Front Panel* menu, and *Setup* > *Edit* > *Lock*.

- *Video Settings.* Change video adjustments to get the best picture for your viewing conditions. See "AV Menu."
- **Note:** You may wish to change the Picture Mode from the default **Brilliant** to either **Bright** or **Natural**, which are suitable for most home viewing environments.
- To program the remote control to operate A/V devices not under NetCommand control, see Appendix D, "Programming the Remote Control."

TV Care

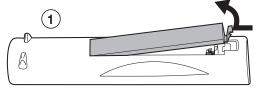
- Lamp Cartridge. When the lamp cartridge needs replacement, replace the lamp yourself and save the cost of a service call. See Appendix C for instructions.
- General Cleaning. See the cleaning recommendations under "Important Information About Your TV."

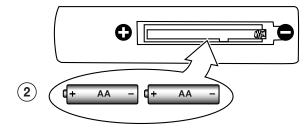
Assistance

- For troubleshooting, service, and product support, see **Appendix E.**
- For warranty information, see the TV warranty in the back of this book.

Installing the Remote Control Batteries

- 1. Remove the remote control's back cover by gently pressing in the tab and lifting off the cover.
- 2. Load the batteries, making sure the polarities (+) and (-) are correct. For best results, insert the negative (-) end first.
- 3. Snap the cover back in place.





The remote control requires two AA alkaline batteries.

When You First Power On the TV

Choosing a Language for Menus

- 1. Power on the TV for the first time.
- Press ▲ ▼ to select either English or Spanish for all menus. You can later change the language selection through the Setup menu Language option.

Welcome	
Welcome to Mitsubishil Select the language using the ADJUST keys. To begin setup, press the MENU key to set channels and the clock. Press the EXIT key to watch TV.	
► English Spanish	

When you first power on the TV, the Welcome screen lets you change the menu language.

Initial TV Setup

Use the Setup menu for basic TV setup options.

- 1. Press MENU to open the Main menu.
- 2. Press ▼ to highlight the **Setup** icon and display the *Setup* menu.



Setup menu highlighted in TV Main menu

Turning the TV On or Off

To turn the TV on or off, point the remote control at the front of the TV and press the **POWER** button. Alternatively, press the **POWER** button on the front panel of the TV.

If You Turn Off the TV by Mistake

- 1. Press **POWER** again within about 30 seconds, while the lamp is still hot, to have the TV come back on immediately.
- 2. If the LAMP indicator starts blinking (about 30 seconds after you shut off power), wait about one minute for the LAMP indicator to stop blinking and press POWER to turn the TV on again.

12

Initial TV Setup, continued

Change the Menu Language

Choose to display on-screen menus in either English or Spanish (Español).



Select a menu language in the Setup menu.

- 1. With the **Setup** menu displayed, press ► to highlight the Language icon.
- 2. Press ▲ ▼ to highlight either **English** or **Spanish**.
- 3. Press MENU to return the highlight to the top row of icons.

Memorize Channels

For ANT 1/MAIN and ANT 2/AUX

To start channel memorization

- 1. With the *Setup* menu displayed, press ► to highlight the Scan icon.
- Press ▲ ▼ to highlight an input selection based on your connections:

Input	Condition
Ant 1 Air Ant 2 Air	When connected to an indoor or outdoor antenna
Ant 1 Cable Ant 2 Cable	When connected to direct cable (no cable box)

- 3. Press ► to highlight the on-screen **START** button.
- 4. Press ENTER to start automatic channel memorization.

To stop channel memorization before completion, press CANCEL.



Start channel memorization from the Setup menu.

- 5. When memorization is complete you can:
 - Press MENU once to return to the top row of icons.
 - Press MENU again to return to the *Main* menu.
 - Press EXIT to watch TV.

After channels have been memorized:

- To tune to memorized channels, press CH ∧/∨ while watching TV on the ANT 1 or ANT 2 inputs.
- Use the *Setup* > *Edit* menu for additional channel options, such as adding or deleting channels from memory, naming channels, and saving favorite channels in custom memory banks.

Additional TV Setup Using the Setup Menu

See chapter 5, "TV Menu Settings," to :

- Edit channel options
- Set the TV clock
- Set the TV Timer
- Select an Energy Mode to manage power use while the TV is off.

Setting Up TV Inputs

When You First Connect a Device

This TV's Easy Connect® Auto Input Sensing feature detects most connections automatically. When you first connect a device, the TV will:

- a. detect the connected device
- b. prompt you to identify the device type
- c. prompt you to perform NetCommand set-up for the device, if available (Y series and 734 series only)
- d. repeat these steps for any additional newly detected devices

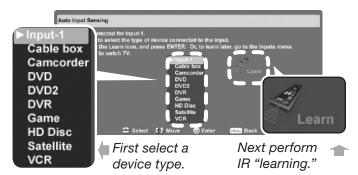
The tables below clarify which connections trigger Auto Input Sensing.

Auto Detection Active	No Auto Detection
INPUT 1, 2, 3 video jacks	ANT 1 and ANT 2
COMPONENT video jacks	
HDMI *	
DIGITAL AUDIO OUT	
AVR AUDIO OUTPUT (analog)	
USB (USB photo port on front)	
 If the device is powered of tion occurs when the device 	

Setting Up TV Inputs, continued

- **Note:** For connection and setup of a personal computer, see the information later in this chapter.
- 1. See chapter 3, "TV Connections," for recommendations on connecting your devices.
- 2. Connect your devices to the TV, making note of which TV input is used for each device.

The TV and the devices can be either on or off when connecting.



Auto Input Sensing screen for most device types. The Learn icon appears only on models with NetCommand.

- Power on the TV if not already on. When the TV detects a connection, the *Auto Input Sensing* screen opens.
 - **Most Device Types:** Specify the device type and then, if desired, proceed directly to NetCommand setup if available.
 - a. In the *Auto Input Sensing* screen, press ▲
 ▼ to move through the device list to select the device type connected to the input. The device type you select here will appear in the *Input Selection* menu.
 - b. If NetCommand IR "learning" is available on your TV model, you can perform "learning" now or at a later time. To perform now, highlight the Learn icon and press ENTER. See chapter 6, "NetCommand" for more.
 - A/V Receiver: The TV can detect audio connections on the DIGITAL AUDIO OUT jack and the right (red) analog AVR AUDIO OUTPUT jack.

Note for Analog A/V Receivers: When you disconnect an analog A/V receiver, manually change the **Speakers** setting to **TV** to hear sound from the TV speakers.

If NetCommand IR "learning" is available for your TV model, perform "learning" now or at a later time. To perform now, highlight the Learn icon in the *Auto Output Sensing* screen and press ENTER. See chapter 6, "NetCommand" for more.

HDMI Devices Compatible with the TV's
 NetCommand for HDMI Feature: Compatible

HDMI devices are often recognized automatically by the TV. The TV's remote control may operate some device functions without further setup. You can add more control functions if desired. Program the TV's remote control or, in the case of a Y or 734 series TV, perform NetCommand IR "learning" to add functions.

4 Press EXIT to close the *Auto Input Sensing* screen. The TV will then display the *Auto Input Sensing* screen for the next connection it finds.

More About Auto Input Sensing

- Choose a different name for each input.
- Antenna inputs (ANT 1/ANT 2) are never detected, although you can turn off unused antenna inputs in the *Inputs* > *Name* menu.
- You can change the device type at a later time using the *Inputs* > *Name* menu. Any "learned" NetCommand IR codes will be erased, however.
- If you wish to change devices on an HDMI input:
 - 1. Disconnect the HDMI device.
 - Turn off the HDMI input in the *Inputs* > *Name* menu.
 - Connect the new device and the *Auto Input Sensing* screen will display. If you want the device under NetCommand IR control, perform NetCommand "learning" for the new device.

Controlling A/V Receiver Sound Volume

Although the TV detects when you connect an A/V receiver, you must use one of the methods below to control sound volume from the 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 Appendix D, "Programming the Remote Control."
- Program the TV's remote control for your A/V receiver and set the TV remote's slide switch to the AUDIO position to control volume. Set the switch back to the TV position to control the TV.
- Use the remote control that came with the A/V receiver.

With NetCommand Control of an A/V Receiver (Y and 734 series only)

- Set up NetCommand control of the A/V receiver's volume functions in the *Inputs* > AVR menu. The TV's remote will then automatically control A/V receiver volume. See chapter 6, "NetCommand."
- Use any of the methods described for the standard TV setup.

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.

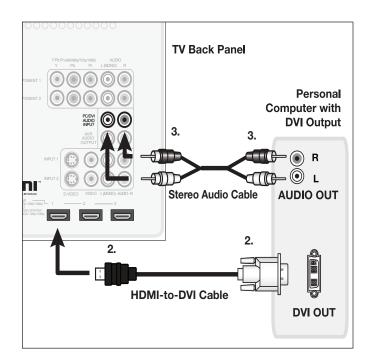
Computer Video Output Video Connec		Audio Connection
Digital DVI	DVI-to-HDMI cable or an HDMI cable with an HDMI-to- DVI adapter	Stereo audio cables
	Note: If the computer's audio output is a single mini jack, a mini audio-to- RCA-male "Y" adapter cable is also required.	
HDMI	HDMI-to-HDMI cable	No additional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

IMPORTANT

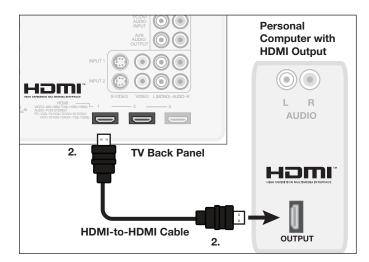
This TV accepts digital computer signals only.

- 1. See the TV specifications in Appendix A to confirm that your computer signal is compatible with the TV.
- 2. 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.
- 3. Connect the computer's audio output using one of these options:
 - For digital DVI signals, connect analog left/right audio to the TV's **PC/DVI AUDIO INPUT** jack.
 - For HDMI signals, no additional audio connection is required.
- Power on the TV and computer. The TV will detect the connection and display the *Auto Input Sensing* screen.
- In the *Auto Input Sensing* screen, press ▲ ▼ to highlight PC in the list of device types. You can change the type at a later time using the *Inputs* > *Name* menu.
- 6. Press EXIT to close the *Auto Input Sensing* screen.

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



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



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

Using the TV with a Personal Computer

Computer Video Adjustments

- 1. Power on the computer if it is not already on.
- Select PC from the *Input Selection* menu. To do this, press INPUT to open the *Input Selection* menu, move the highlight to the PC icon, and press ENTER.
- 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 VIDEO repeatedly to access videoadjustment options. The following additional adjustments are available for computer video:

Horiz Position (Horizontal Position). Manually adjust the horizontal position; overrides **Auto Position**.

Vert Position (Vertical Position). Manually adjust the vertical position; overrides **Auto Position**.

5. Press **FORMAT** repeatedly to find the picture format best suited to the image. See the chart on this page showing how different computer resolutions are 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 resolutions from standard VGA (640 x 480) through 1920 x 1080 signals at a refresh rate of 60 Hz. The resolution of 1920 x 1080 is supported at refresh rates of 24, 30, and 60 Hz. See Appendix A in this book for more on compatible screen resolutions.

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.

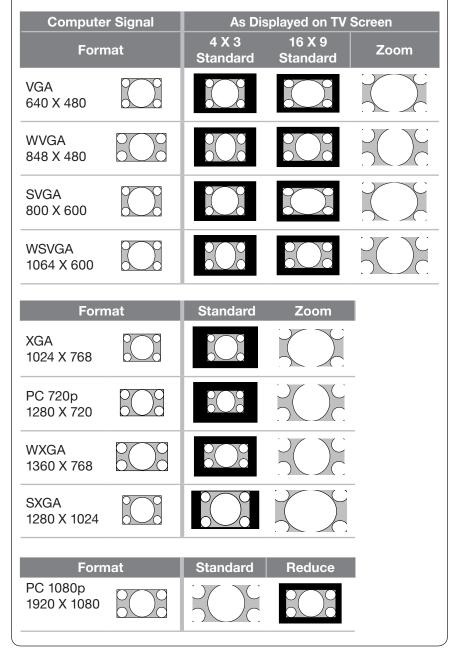
You may need to restart the computer for changes to take effect.

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



3 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 chapter 2, "TV Setup," for more on Auto Input Sensing.

Connection Types

Review the connection types available on your input devices and use inputs that will give the best video quality. For example, choose HDMI over component video, and choose component video over S-video or composite video.

Picture Quality

For best picture quality, route signals directly from the input device to the TV; avoid routing video signals through an A/V receiver, for example.

Sound Quality

For best surround sound audio quality, route audio signals from the input device directly to your A/V receiver or sound system whenever possible.

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 many electronics stores.

HDTV Cable Box or Satellite Receiver with Component Video

If your cable box or satellite receiver has an HDMI output, use the connections for HDMI devices described later in this chapter.

Required: RCA component video cables, left/right analog stereo audio cables.

- Connect the cable from the outside cable or satellite service to CABLE IN or SATELLITE IN on the cable box or satellite receiver. See your device's owner's guide for instructions and cable compatibility.
- Connect RCA-type cables from the **Y PB PR** outputs on the HDTV cable box or satellite receiver to **COMPONENT** on the TV back panel, matching the colored green, blue, and red connections.
- 3. Connect left (white) and right (red) audio cables from the HDTV cable box or satellite receiver to **COMPONENT AUDIO L (MONO)** and **R** on the TV back panel.
- **Note:** To hear digital surround sound, connect the digital audio output from your cable box or satellite receiver directly to your digital A/V receiver.

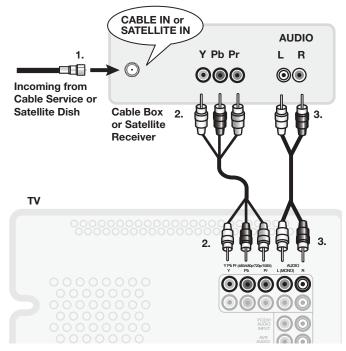


Figure 1. Connecting an external HDTV receiver with component video connections

Standard Cable Box, Satellite Receiver, or Other Device with S-Video

Required: S-Video cable and left/right analog stereo audio cables.

- 1. Connect the cable from the outside cable or satellite service to **CABLE IN** or **SATELLITE IN** on the cable box or satellite receiver.
- 2. Connect an S-Video cable from **S-VIDEO OUT** on the cable box or satellite receiver back panel to **INPUT S-VIDEO** on the TV back panel.
- Connect left (white) and right (red) audio cables from AUDIO OUT on the cable box or satellite receiver to INPUT AUDIO L (MONO) and R on the TV back panel.
- **Note:** Refer to the cable box or satellite receiver Owner's Guide for cable or dish antenna connections to the receiver.

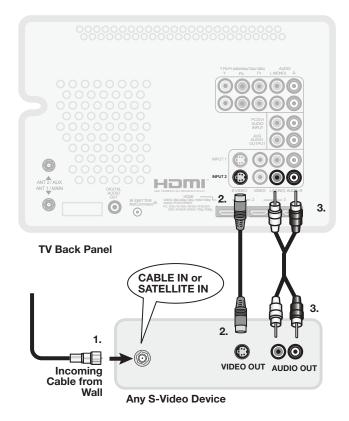


Figure 2. Connecting a device with S-Video

HDMI Device (Cable Box, Satellite Receiver, DVD Player, or Other Device)

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 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 chapter 1, "TV Overview," for more on HDMI cable types.

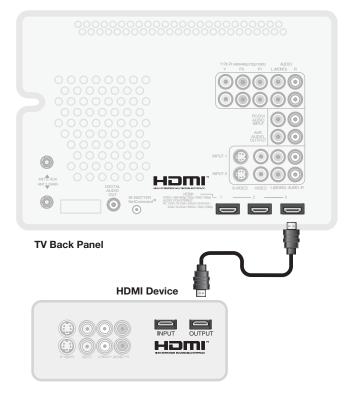


Figure 3. Connecting an HDMI device.

Note: HDMI inputs are *SimplayHD*[•] certified for proper interoperability with other products certified by Simplay[™].

IMPORTANT

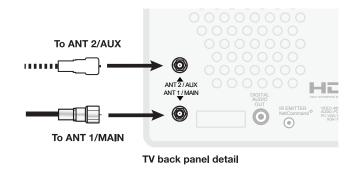
HDMI and Audio Signals

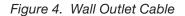
- Digital Surround Sound: The TV's HDMI inputs can receive digital stereo audio signals only. To hear digital surround sound from an HDMI device, connect the device's digital audio output directly to your A/V receiver. See the Owner's Guides for those devices for instructions.
- A/V Receiver with HDMI. If your A/V receiver has an HDMI input, use the audio connections described in "A/V Receiver (Sound System)" instead.

Wall Outlet Cable (no cable box)

It is very important to connect the incoming cable for your primary viewing source to **ANT 1/MAIN**.

- 1. Connect the primary incoming coaxial lead cable to **ANT 1/MAIN** on the TV back panel.
- For an optional secondary antenna source, connect an antenna (or cable) to ANT 2/AUX.





Antennas with Separate UHF and VHF Leads

Required: UHF/VHF combiner

- 1. Connect the UHF and VHF antenna leads to the UHF/VHF combiner.
- Push the combiner onto ANT 1/MAIN on the TV back panel.

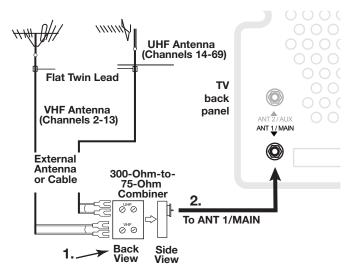


Figure 5. Connecting separate UHF and VHF Antennas

Mitsubishi strongly recommends you avoid using antennas with flat twin leads. Flat twin lead antenna wires are subject to interference which may adversely affect the performance of the TV. We recommend using coaxial antenna cable.

Antenna with a Single Lead

A. For an antenna with flat twin leads

Required: 300-ohm-to-75-ohm transformer.

- A1. For an antenna with flat twin leads, connect the 300-ohm twin leads to the 300-ohm-to-75-ohm transformer.
- A2. Push the 75-ohm side of the transformer onto **ANT 1** on the TV back panel.
- **B.** For cable or antenna with coaxial lead Connect the coaxial lead directly to **ANT 1** on the TV back panel.

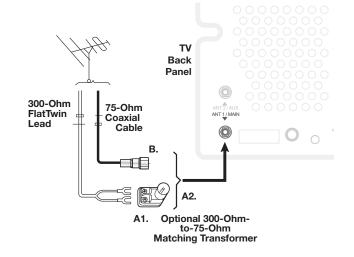


Figure 6. Connecting a Single Antenna Lead

DVD Player with Component Video

Component video cables and analog audio cables are required.

- Connect the component video cables from Y Pb Pr VIDEO OUT on the back of the DVD player to the COMPONENT jacks on the TV back panel, matching the green, blue, and red colored connections.
- Connect left (white) and right (red) stereo audio cables from AUDIO OUT on the back of the DVD player to COMPONENT AUDIO L (MONO) and AUDIO R on the TV back panel.

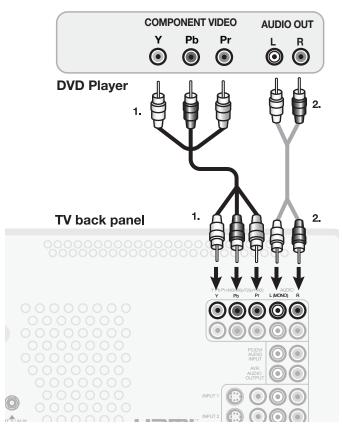


Figure 7. Connecting a DVD player with component video

IMPORTANT See Appendix A for component video signal

For digital audio connections to your A/V receiver, see your DVD player and A/V receiver

compatibility information.

Owner's Guides.

DVI Video Device (Cable Box, Satellite Receiver, DVD Player, or Other Device)

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

Analog stereo audio cables and a DVI-to-HDMI cable or DVI/HDMI adapter and HDMI cable are required.

- 1. Connect the DVI-to-HDMI cable (recommended) or HDMI cable with DVI/HDMI adapter from the DVI device's back panel to the TV's HDMI jack.
- **Note:** If you are using a DVI/HDMI adapter, it is important to connect the adapter to the DVI device for best performance.
- Connect a set of audio cables from AUDIO OUT on the DVI device back panel to the PC/DVI AUDIO INPUT on the TV back panel. Connect the red cable to the R jack and the white cable to the L (MONO) jack.
- **Note:** The HDMI connection supports copy protection (HDCP).

Some devices require connecting 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.

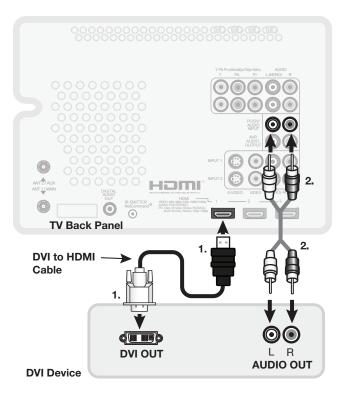


Figure 8. Connecting a digital DVI device

20

VCR to an Antenna or Wall Outlet Cable

Required: Two-way RF splitter, 3 coaxial cables, right and left analog audio cables, either S-video or video cable.

- 1. Connect the incoming cable or antenna to **IN** on the RF splitter.
- 2. Connect one coaxial cable from **OUT** on the RF splitter to **ANTENNA IN** on the VCR back panel.
- 3. Connect one coaxial cable from **OUT** on the RF splitter to **ANT 1/MAIN** on the TV back panel.
- To use the TV speakers with the VCR, connect left (white) and right (red) audio cables from AUDIO OUT on the VCR to INPUT AUDIO L (MONO) and AUDIO R on the TV back panel. If your VCR is mono (non-stereo), connect only the white (left) cable.
- Connect either an S-Video or composite video cable from VIDEO OUT on the VCR back panel to INPUT VIDEO or S-VIDEO on the TV back panel. Connect only one type of video cable; S-Video is recommended, if available.

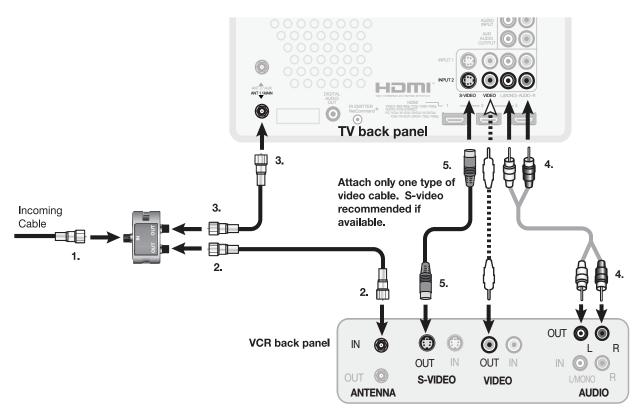


Figure 9. Connecting a VCR to an Antenna or Wall Outlet Cable

VCR to a Cable Box (Audio & Video)

Required: Two coaxial cables, right and left audio cables, S-Video or composite video cable, plus cables required to connect the TV to the cable box.

- 1. Connect the incoming coaxial cable to IN on the cable box.
- Connect one coaxial cable from **OUT** on the cable 2. box to ANTENNA IN on the VCR back panel.
- Connect the cable box outputs to the TV as shown 3. in one of the options listed below. This connection allows the TV to receive the best available signal directly from the cable box. See the referenced figures in this chapter, "TV Connections."

Figure 1: Component video output to the TV's COMPONENT Y Pb Pr jacks; analog stereo audio to the associated AUDIO jacks.

OR

Figure 2: S-Video output to the TV's INPUT S-VIDEO jack; analog stereo audio to the associated AUDIO jacks.

OR

- To use the TV speakers with the VCR, connect left 4. (white) and right (red) audio cables from AUDIO OUT on the VCR to INPUT AUDIO L (MONO) and **AUDIO R** on the TV back panel. If your VCR is mono (non-stereo), connect only the white (left) cable.
- 5. Connect either an S-Video or composite video cable from VIDEO OUT on the VCR back panel to INPUT VIDEO or INPUT S-VIDEO on the TV back panel. Connect only one type of video cable. S-Video is recommended, if available.
- Note: When using this connection configuration with the connections used in step 3, it is possible to view live cable programs through the VCR Device. For best picture quality, however, always view live cable programs directly from the cable box device.

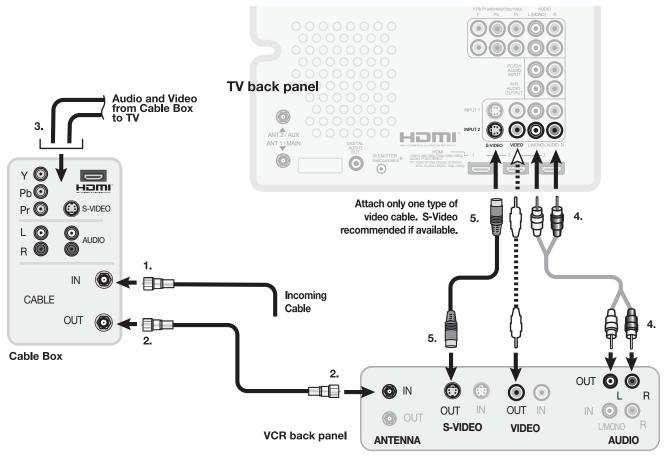


Figure 10. Connecting a VCR to a cable box

Figure 3: HDMI output to the TV's HDMI jack.

A/V Receiver (Sound System)

Most setups require either a digital audio cable or analog stereo audio cables.

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

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

Usually, only one of the following connections is required:

- To connect an analog A/V receiver Connect left (white) and right (red) audio cables from AVR AUDIO OUTPUT/AUDIO L (MONO) and AUDIO R on the TV back panel to the TV AUDIO INPUT on the A/V receiver.
- To connect a digital A/V receiver with Dolby Digital surround sound and PCM audio support: Connect one end of the digital audio cable to DIGITAL AUDIO OUT on the back of the TV. Connect the other end to the COAXIAL DIGITAL INPUT on the back of the A/V receiver.

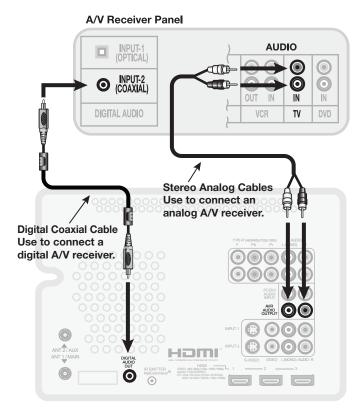


Figure 11. Connecting the TV to an A/V receiver

Important A/V Receivers with HDMI Inputs If your A/V receiver has an HDMI input, use one of the audio connections described here instead of an HDMI connection.

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 connections for analog A/V receivers.
- 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.

Older Cable Box

Required: One coaxial cable

- **Note:** This connection is not recommended. The other connections described in this chapter provide better quality audio and video to the TV and allow NetCommand to work with the cable box.
- 1. Connect the incoming cable to IN on cable box.
- 2. Connect one coaxial cable from **OUT** on the cable box to **ANT 1/MAIN** on the TV back panel.

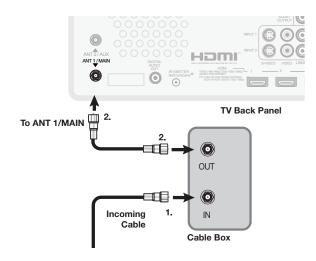
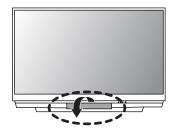


Figure 12. Connecting an older cable box

Camcorder

Inputs on the front of the TV offer the most convenient way to connect a camcorder. If your TV model does not have a front input matching the camcorder's output, use one of the matching jacks on the back of the TV.

Jacks on the TV front panel offer the most convenient way to connect a camcorder



Composite Video Connection

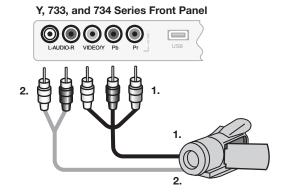
Required: Analog stereo audio and composite video cables supplied with the camcorder.

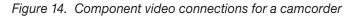
- 1. Connect a composite video cable from **VIDEO OUT** on the camcorder to **INPUT 3/VIDEO** or **VIDEO/Y** on the TV.
- Connect left (white) and right (red) audio cables from AUDIO OUT on the camcorder to INPUT 3/ AUDIO L and AUDIO R on the TV.



Required: Analog stereo audio and component video cables supplied with the camcorder.

- **Note:** Your model may have component video inputs on the front of the TV as shown in the diagram below. Otherwise, use a set of component video and audio jacks on the back of the TV.
- Connect component video cables from VIDEO OUT on the camcorder to one of the TV's sets of COM-PONENT jacks.
- Connect left (white) and right (red) audio cables from AUDIO OUT on the camcorder to AUDIO L and AUDIO R on the TV.





HDMI Connection

Required: HDMI cable supplied with the camcorder.

Connect the camcorder to the TV's HDMI jack.

Note: Your model may have an HDMI input on the front of the TV as shown in the diagram below. Otherwise, use an HDMI jacks on the back of the TV.

Y and 734 Series Front Panel

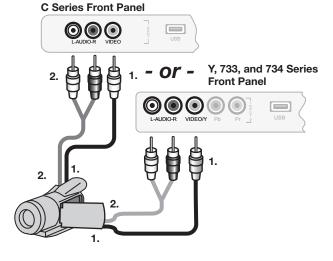


Figure 13. Composite video connections for a camcorder

Figure 15. HDMI connection for a camcorder.

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4 TV Operation and Features

Choosing a Viewing Source



Input Selection menu

Choose a viewing source from the *Input Selection* menu. The current TV input appears as a full-color icon in this menu.

- 1. Press INPUT to display the *Input Selection* menu. If there are only two inputs to the TV, INPUT switches between them without displaying the menu.
- 2. Highlight an input icon using $\blacktriangle \lor \blacktriangleleft \triangleright$.
- 3. Press ENTER to switch to the input and close the menu.

More About the Input Selection Menu

- To assign meaningful names to the icons, see the *Inputs* > *Name* menu in chapter 5, "TV Menu Settings."
- To rearrange the icons, see the *Inputs* > Order menu in chapter 5, "TV Menu Settings."

Sleep Timer

The Sleep Timer turns the TV off after the length of time you set.

Setting the Sleep Timer

- 1. Press **SLEEP** on the remote control.
- Press SLEEP additional times to increase the time in 30-minute increments up to the maximum of 120 minutes.
- 3. Press **EXIT** or wait five seconds without pressing any buttons for the message to disappear.
- 4. Press **SLEEP** to view the time remaining before the sleep timer turns off the TV.

Cancelling the Sleep Timer

- 1. Press **SLEEP** to display the on-screen message.
- 2. Press **SLEEP** repeatedly until **OFF** is displayed.
- **Note:** After five seconds of inactivity, the message box will disappear.

TV Tips

Turning the TV On or Off

To turn the TV on or off, point the remote control at the front of the TV and press the **POWER** button. Alternatively, press the **POWER** button on the front panel of the TV.

If You Turn Off the TV by Mistake

- 1. Press **POWER** again within about 30 seconds, while the lamp is still hot, to have the TV come back on immediately.
- 2. If the LAMP indicator starts blinking (about 30 seconds after you shut off power), wait about one minute for the LAMP indicator to stop blinking and press POWER to turn the TV on again.

Controlling Sound Volume

Press VOL \wedge/\vee to adjust the sound level. See also "Controlling A/V Receiver Sound Volume" in chapter 2, "TV Setup."

Changing Channels (antenna sources)

To change channels:

- Enter the channel number using the number keys on the remote control and press ENTER. For a twopart digital channel, such as 3-1, press 3 (CANCEL) 1 to enter a dash (separator).
- Press CH ∧/∨ to change channels one channel at a time.
- Press and hold CH ∧/∨ to move quickly through channels.
- Press QV (QuickView) to switch back to the previously tuned channel.
- Press **GUIDE** to display ChannelView channel listings, highlight a channel, and press **ENTER**.
- Use the FAV (Favorites) feature to set up lists of favorite channels and tune to them with the FAV key. See "Setup Menu" in chapter 5.
- **NOTE:** Memorize channels to make finding channels easier. See the *Setup* > *Scan* menu.

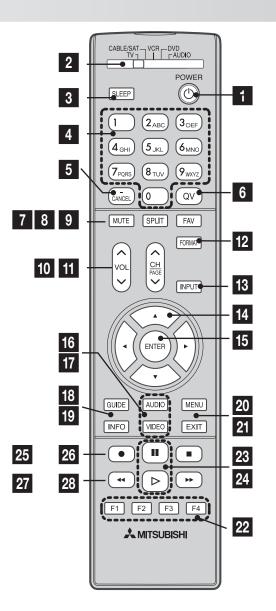
Remote Control

- 1. POWER: Turns TV power on and off.
- Slide Switch: Selects the A/V device to be controlled by the remote control. Set the slide switch to TV for operation of the TV and NetCommandcontrolled devices. Control of additional devices requires programing (see Appendix D, "Programming the Remote Control."
- 3. SLEEP: Sets the TV to turn off within 2 hours.
- 4. Digits/Letters: Press digits for channel numbers, then press ENTER for faster tuning. Use numbers and the CANCEL key to enter digital sub-channel numbers. Use also for entering letters or names into menus.

To select letters when naming channels, repeatedly press the associated number key. Press **ENTER** to set the letter. Special characters are available with the **1** and **0** keys:

1	!	&	blank space
0	1	*	-

- -/CANCEL (SUB-CHANNEL/CANCEL): When entering digital channel numbers, adds a separator between main and sub-channel numbers. Clears FAV and some menu entries.
- 6. QV (QuickView[™]): Switches between the current channel and the last channel viewed.
- 7. MUTE: Turns TV sound on and off.
- 8. SPLIT: Not used on this model.
- FAV (Favorites): Scans through memorized lists of favorite channels. See "Setup Menu" in chapter 5, "TV Menu Settings," for more information.
- **10.** V0L ∧/∨ (Volume Up/Down): Changes sound level.
- **12. FORMAT:** Changes the shape and size of the TV picture.
- **13.** INPUT: Displays the *Input Selection* menu from which you can select an input source to view, such as an antenna input (ANT 1/2) or a connected device.
- 14. ▲ ▼ ◀ ▶ (Adjust Up/Down/Left/Right): Navigate menus and change settings.
- 15. ENTER: Selects a channel number or menu item.
- **16.** AUDIO: Selects individual audio settings to adjust.
- 17. VIDEO: Selects individual video settings to adjust.
- **18.** GUIDE: Displays or removes ChannelView[™] channel listing for ANT 1 and ANT 2. Displays DVD disc or top menu for a NetCommand-controlled DVD player.
- **19.** INFO: Displays an on-screen summary of the current device in use and any broadcast information avail-



able, including current V-Chip ratings information. See chapter 4, "TV Operation and Features," for details.

- **20.** MENU: Displays the main TV menu using the onscreen menu system. When a sub-menu is open, backs up one menu level.
- **21.** EXIT: Closes TV on-screen menus/displays.
- 22. F1-F4

For devices under NetCommand control: Perform NetCommand "Learning" to assign your choice of functions to the F1–F4 keys.

For devices operating independently of NetCommand: The F1–F4 keys work like the A, B, C, D buttons on some cable boxes, satellite receivers, and DVD players. Program the remote control for your equipment and test the keys. See Appendix D, "Programming the Remote Control."

23. (II) (PAUSE): Freezes a broadcast TV picture. See below for use with recordable media.

Remote Control, continued

Record/Playback Keys

Use any of these methods to enable the recording and playback commands:

- Program the remote control for your DVR, VCR, or DVD player/recorder and set the slide switch to VCR, DVD, CABLE/SAT, or AUDIO as appropriate.
- Y and 734 series TVs: Perform NetCommand IR "learning" for the device.
- Check HDMI devices for compatibility with the TV's NetCommand for HDMI feature (see below).
- **23.** (PAUSE): Pauses a VCR, DVR, or DVD. See above for use during TV viewing.
- **24.** (PLAY): Plays a VCR, DVR, or DVD.
- **25.** (RECORD): Records with a VCR or DVR.
- 26. (STOP): Stops play of a VCR, DVR, or DVD.
- **27.** (REVERSE): Rewinds a VCR. Reverse scans a DVR or DVD.
- 28. → (FORWARD): Fast forwards a VCR. Forward scans a DVR or DVD.

Note: To operate other audio/video devices:

- See Appendix D, "Programming the Remote Control."
- See chapter 6, "NetCommand," for NetCommand IR "Learning" of device keys.
- For HDMI devices compatible with the TV's NetCommand for HDMI feature, see below.

NetCommand for HDMI Devices

The TV's remote may operate some functions of compatible HDMI devices able to receive commands through the HDMI cable. Test your equipment with the TV's remote to find out which commands are supported. See below for commands that may be available, depending on the individual device.

Press PLAY on the device itself to:

- Turn on the TV if not already on
- Switch to the device (no need to display the *Input Selection* menu)
- Begin play of the device

VCR, DVD, and DVR functions that may be available:

Record/ Playback	Menu Navigation	Channel Tuning	Other
	◀ ► ▲ ▼	CH ^/~	GUIDE
	ENTER	Digits 0-9, (CANCEL)	F1 (content)
	ANCEL) (to cance	l) ENTER	MENU

Low-Battery Indicator

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

Resetting the Remote Control

If the slide switch is set to **TV** and the TV does not respond properly, reset the remote control.

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

Care of the Remote Control

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

ChannelView[™] Channel Listings

ChannelView shows memorized channels on **ANT 1** and **ANT 2**. It displays channel names and program information as sent by broadcasters or your local cable service provider and may be incomplete. No program information is displayed for analog channels. An analog channel name is displayed only if you assigned a name in the **Setup** > **Edit** menu.

To receive ChannelView updates, set the Energy Mode to **Fast Power On** and leave the TV powered off for a while each day.

Using ChannelView

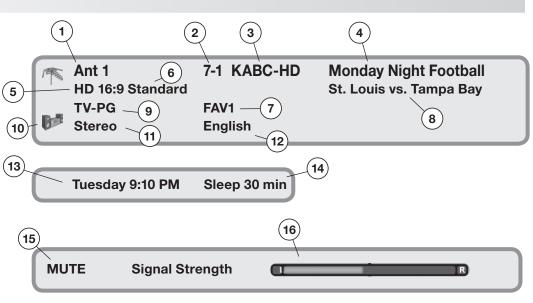
Feature	Press Key
See ChannelView listings from ANT 1 or ANT 2 .	Press GUIDE.
Close ChannelView	Press GUIDE or EXIT.
Scan channels one by one.	Press and hold \blacktriangle or \blacktriangledown .
Scan channels quickly.	Press and hold PAGE \wedge/\sim .
Jump to listings for a spe- cific channel.	 Enter the channel number (see numbers in upper left. Press ENTER.
See more of the program description.	Press INFO.
Move navigation to the program guide.	Press ▶.
Move navigation to the channel guide.	Press ◀.
Tune to the highlighted channel.	Press ENTER.

Status Display

Press the INFO key to see the on-screen status display. The most common displays are shown here. Seldom or never do all the status indicators appear at the same time.

On-screen status display. Sample information shown for a digital program source.

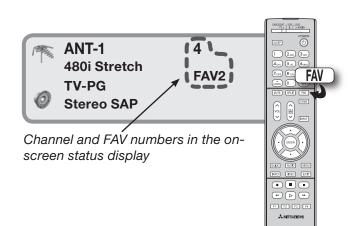
	Analog Sources	Digital Sources
1.	Source antenna or input	Source antenna or input
2.	Analog channel being received (antenna sources only)	Digital major and sub-channel numbers (antenna sources only)
3.	Analog channel name (if named in the Setup > Edit menu); antenna sources only.	Digital Channel Name (if broadcast or if named in the Setup menu > Edit options; antenna sources only)
4.	(Does not apply)	Program name (if broadcast; antenna sources only)
5.	Signal Type Being Received. Possible: On antenna sources or INPUT 1/2 : 480i On component jacks: 480i, 480p, 720p, 1080i	Signal Type Being Received. Possible: On antenna sources: SD 4:3, SD 16:9, HD On HDMI: 480i, 480p, 720p, 1080i, 1080p, all PC resolutions
6.	Screen Format in use. Possible: Analog 480i /480p signals: Standard, Expand, Zoom, Stretch, Stretch Plus, Narrow 720p/1080i signals: Standard, Wide Expand	Screen Format in Use. Possible: SD 4:3, 480i, or 480p: Standard, Expand, Zoom, Stretch, Stretch Plus, Narrow SD 16:9 or HD 16:9, 720p, or 1080i: Standard, Wide Expand 1080p: Standard
7.	Current FAV bank number of channel (antenna sources only)	Current FAV bank number of channel (antenna sources only)
8.	(Does not apply)	Program description (if broadcast; antenna sources only))
9.	V-Chip rating (antenna sources or INPUT 1/2 only)	V-Chip rating (antenna sources or INPUT 1/2 only)
10.	Audio Source. Possible: Ø TV speakers, 🕪 external sound system	Audio Source. Possible: Output: The second system of the second syste
11.	Listen To indicator: Stereo, Stereo SAP, SAP (antenna sources only))	Stereo, Surround, Dual Mono (antenna sources only)
12.	(Does not apply)	Current language (antenna sources only)
13.	Day and time	Day and time
14.	Sleep Timer remaining time	Sleep Timer remaining time
15.	Mute indicator	Mute indicator
16.	(Does not apply)	Signal strength indicator (antenna sources only)



FAV (Favorite Channels)

Use the six Fav channel banks to store groups of your favorite channels from **ANT 1** and **ANT 2**. You can set up a Fav channel bank for each of your favorite program types or set up a bank for each TV user.

You may prefer to perform FAV channel setup from a menu. See chapter 5, "TV Menu Settings," and the *Setup* > *Edit* options.



Using FAV Channels			
See the current FAV bank number	Press INFO.		
View FAV banks	 Press the FAV key. Wait for the TV to tune to a channel in the current FAV bank. Press the FAV key repeatedly to cycle through the channels available in the current FAV key repeatedly to cycle through the channels available in the current FAV key here. 		
	current FAV bank.		
Change FAV banks	1. Press the FAV key. Wait for the TV to tune to a channel in the current FAV bank.		
	2. When tuning is complete and while the TV status display is still visible on screen, press the number key for the desired bank.		
	Note: Wait for the channel change to finish before pressing the number key. Otherwise, the TV may ignore the FAV number.		
If no FAV banks are set up	The FAV key switches to the previously tuned channel; works like the QV key.		

FAV Setup Using Only the Remote Control				
Add FAV channels	 While watching TV, tune to the channel you want to add to the current FAV memory bank. See the instructions above if you need to change to a different FAV bank. 			
	2. Press and hold the FAV key for about 2 seconds. When FAV and the memory bank number appear under the channel number, the channel has been successfully added.			
Remove FAV channels	1. While watching TV, press the FAV key.			
This procedure removes the channel only from the selected bank and	2. While the TV status display is still visible on screen, press the number key for the memory bank.			
leaves the other banks unchanged.	3. Press the FAV key repeatedly until you see the desired channel in the on- screen status display			
	4. While the channel number and FAV indicator (with correct bank number) are still displayed on the screen, press CANCEL . You must press CANCEL while the indicator is displayed. When the FAV indicator disappears after pressing CANCEL , the channel has been successfully removed.			

TV Signals and Display Formats

This is a widescreen TV, also known as a 16:9 TV. This shape reflects the new types of images available from HDTV and many DVDs. There are still many older style narrow-screen images (called 4:3 aspect ratio) you will encounter. While there is no perfect solution for displaying a squarish, narrower image on a wide screen, Mitsubishi offers several display formats from which you can choose.

Press **FORMAT** on the TV remote control to cycle through the available display formats. The last-used format for each device is used when you return to that device.

DVD Definitions

Anamorphic (or Enhanced for WideScreen TV)

These DVDs are recorded in a special way to properly show widescreen images on 16:9 TV sets using the Standard format mode. This is the recommended viewing choice.

Non-Anamorphic (or 4:3, 1:33:1, Letter Box, or Full Screen)

These DVDs are recorded for use with traditionally shaped, squarish TVs. 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.

This information may be listed on the DVD case. Some DVDs support both types of recordings.

Signal Definitions

480i Signals: Traditional analog interlaced signals from or through **ANT-1** and **2**, **INPUT 1–3**, **COMPONENT** and **HDMI** jacks.

480p Signals: Progressive-scan DVD signals on **COM-PONENT** and **HDMI** jacks.

720p and 1080i Signals: High-definition signals received through **COMPONENT** and **HDMI** jacks. These signals are always 16:9 (widescreen).

SD 4:3: Standard-definition squarish-screen format signals from digital channels on **ANT 1** and **ANT 2**.

SD 16:9: Standard-definition widescreen format signals from digital channels on **ANT 1** and **ANT 2**.

HD: High-definition wide-screen format signals from digital channels on **ANT 1** and **ANT 2**. These signals are always 16:9 (widescreen).

TV Display Format Definitions

Standard: This is the full-screen format. HDTV signals use this format. This format is useful for displaying Anamorphic DVDs that have 1.78:1 or 1.85:1 aspect ratios. Anamorphic DVDs that have a 2.35:1 aspect ratio are displayed with black bars at the top and bottom, but show the entire image correctly. Narrow (4:3) images are stretched evenly from side to side. Available for all signals.

Expand: This enlarges the picture to fill the screen, cropping off some of the image at the top and bottom. This is useful for reducing the letter box top and bottom bars of non-anamorphic DVD images. Available for 480i, 480p, and digital SD 4:3 signals only.

Zoom: This enlarges the picture, cropping off some of the image at each side and top and bottom. This is useful for removing or reducing the black top and bottom bars on anamorphic DVDs with a 2.35:1 aspect ratio. Available for 480i, 480p, and SD 4:3 signals only.

Stretch: This format stretches a narrow (4:3) image across the screen; there is less stretch in the center than at the sides, however. This allows the entire narrow image to be displayed across the screen with less distortion than is seen in the Standard format. Available for 480i, 480p, and SD 4:3 signals only.

Stretch Plus: Similar to stretch mode, but to minimize distortions on the side, the picture is expanded to crop off portions of the top and bottom. Except when displaying menus, press $\blacktriangle \lor$ to adjust the position of the picture vertically. Available for 480i, 480p, and SD 4:3 signals only.

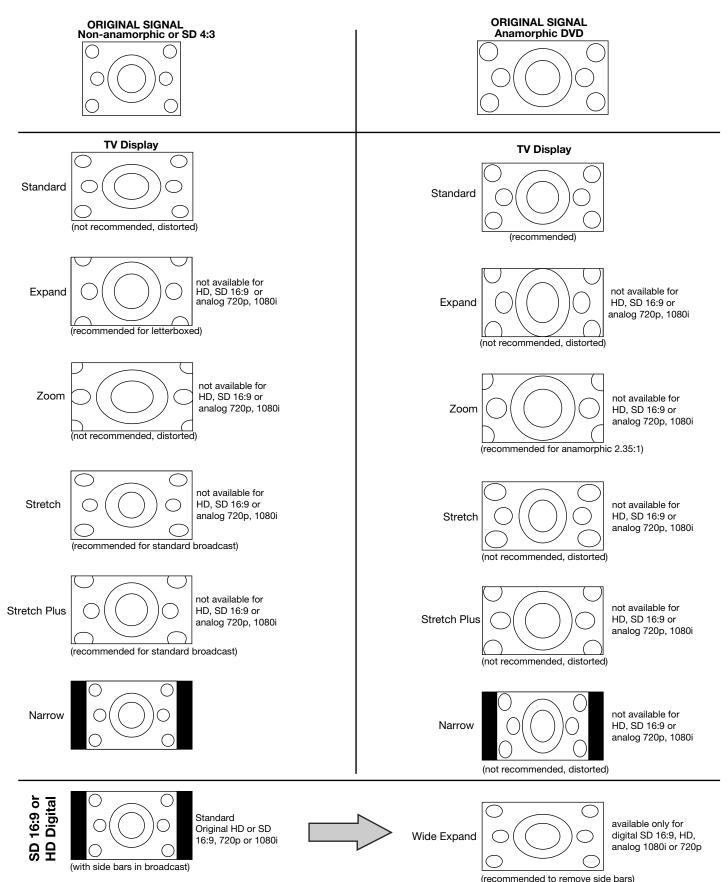
Narrow: This format displays narrow (4:3) images in their original shape, and adds stationary black side bars to fill the screen. Available for 480i, 480p, and SD 4:3 signals only.

Wide Expand: Enlarges the picture, cropping some of the image on both sides. This Expand format is useful to remove or reduce black side bars added to narrow images that are converted to 16:9 signals for digital broadcast. Available for 1080i, 720p, digital SD 16:9 and digital HD signals.

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

TV Display Formats

See descriptions on the preceding page.



Viewing JPEG Picture Files

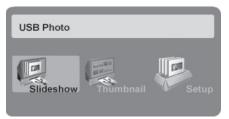
JPEG Photos and the USB Photo Port

1. Connect your digital camera or USB drive to the USB Photo port on the front of the TV. If using a camera, power it on and set it to playback mode.

The **USB Photo** menu displays while files are still being read. Wait until you see the completion message on screen before continuing.



- **Note:** Some manufacturers' devices may be incompatible with the TV. If the TV is unable to display your photos, you can:
 - Try transferring files to a different USB device.
 - Use the camera's composite video output as described later in this chapter.



USB Photo menu

2. After files have been read, you can do the following from the **USB Photo** menu:

USB Photo Menu Options

Start slide show.	With the Slideshow icon high- lighted, press \bigcirc or ENTER.		
Activate menu options.	 Highlight an icon and press ENTER to: start the slide show display picture thumbnails open the <i>Media Setup</i> submenu. 		
Display or close the <i>Main</i> menu.	Press MENU.		
Display status for the file source.	Press INFO.		
Select a different con- nected device	 Press INPUT. Highlight the icon for a different device. Press ENTER. 		
Clear status display or menu to show the USB Photo menu	Press EXIT.		



JPEG Thumbnail Menu

Use these keys while viewing JPEG thumbnail images:

Keys for the	ne JPEG Thumbnail Menu
$\blacktriangle \lor \blacktriangleleft \blacktriangleright$	Move the highlight from image to image.
FORMAT	Rotate the thumbnail clockwise in 90° increments
○ or ENTER	Play the slide show starting with the high- lighted thumbnail.
	Highlight the last thumbnail on the current page.
••	Highlight the first thumbnail on the current page.
CH/PAGE \wedge/\vee	Display the next or previous page of thumbnails.
EXIT	Close the Thumbnail menu and display the USB Photo menu.
MENU	Close the Thumbnail menu and display the Main menu.
INPUT	Close the Thumbnail menu and display the Input Selection menu.

Notes on Viewing JPEG Files

- Large files or high-capacity storage devices may take a long time to display. The screen will be blank while files are read.
- Use only one source device at a time.

IMPORTANT Stop playback or change to a different TV input before disconnecting from the USB photo port.

Slide Show

Use these keys during the slide show:

Keys f	or JPEG Picture Slide Show
\triangleright	Begin or resume slide show playback
	Pause or resume playback while in auto- matic advance mode.
•• or ENTER	Advance to the next slide.
	Go to the previous slide.
FORMAT	Rotate the slide clockwise in 90° incre- ments.
	Stop slide show and display the USB Photo menu.
INFO	Display status for the viewing device and current image.
INPUT Menu	Display the <i>Input Selection</i> menu. Display or remove the TV <i>Main</i> menu.
Note	Always press ((STOP) to stop slide show play-

Note: Always press (\$TOP) to stop slide show playback before disconnecting from the USB Photo port.

Media Setup Menu

Slideshow	Slideshow	Slideshow
Display	Frequency	Interval
► Auto Manual	►Once Twice Continuou	► 5 sec 10 sec s 30 sec 1 minute

Media Setup menu

In the *Media Setup* menu you can adjust the slide show display, number of repetitions, or display interval.

- Select either **Auto** or **Manual** advance. During manual operation, press (>) or ENTER to advance to the next slide.
- For automatic advance, select the number of times (frequency) to play the complete slide show: **Once**, **Twice**, or **Continuous**.
- 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.
- Press EXIT to close the *Media Setup* menu and return to the *USB Photo* menu.

IMPORTANT

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.

USB Photo Menu Compatible Picture Files

- 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. Not all 50 characters will display.
- Images on storage devices with a capacity of over 256 MB can take a longer initial time to display.

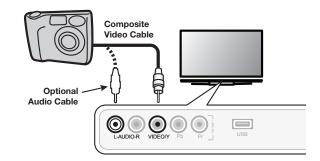
Photos and Moving Video as Composite Video

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

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

The TV's *USB Photo* menu will be unavailable and you must control the slide show through the camera. Display resolution is 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.
- With the camera still turned on, connect your digital camera's composite video cable (usually yellow) to the INPUT 3 VIDEO/Y jack on the front of the TV. To hear audio, connect the camera's audio output cable to the INPUT 3 L-AUDIO jack.
- 4. When the *Auto Input Sensing* screen displays, press EXIT or assign the name **Camcorder**.
- 5. Press INPUT to display the Input Selection menu.
- 6. Highlight the icon for the camera input and press ENTER.
- 7. If viewing photos, advance through the images manually or set the camera to advance automatically.



Camera connection using a composite video cable

TV Menu Settings

Main Menu

6

Press MENU on the remote control to open the *Main* menu.

lcon	Menu Name and Description		
8-18	AV Menu	Customize picture and sound settings.	35
CC	Captions Menu	Turn closed captions on and off; customize caption displays.	38
	Setup Menu	Perform basic TV setup. Set language, scan (memorize) channels, set the TV clock, edit channel options, lock TV use by channel, set the Energy Mode, set the auto-on TV Timer.	39
	Inputs Menu	Assign names to TV inputs, change icon order in the <i>Input Selection</i> menu. For Y and 734 series models, perform NetCommand IR "learn- ing."	43
	Lock Menu	Restrict TV use by program ratings and by time of day. Disable the front-panel control buttons. Set a pass code.	44

Remote Control Keys for the TV Menu System

The following keys help you use the menu system. Some keys are duplicated on the TV's front panel.

CABLEISAT VCR DVD	Кеу	Function		
POWER SLEEP	1 MENU	Display or close the <i>Main</i> menu or move back one menu level.		
1 2 _{ABC} 3 _{DEF}	2 EXIT	Close all menus and return to TV viewing.		
Gen 5.xc. 6.wc) 7ross 8.tuv 9.wc) Mile 0 QV WITE SPLIT FAV Column Column Column	 ▲ ► (Adjust Left/Right Keys) ▲ ▼ (Adjust Up/Down Keys) 	 Move through screens to select menu options. Change settings. Scroll through lists. 		
	4 ENTER	Start an automatic function or check/uncheck a check box. When setting time, move from hour digits to minutes digits and from month to day to year digits.		
	5 Numbers Letters	Enter channel numbers. Enter custom names in some text boxes.		
	6 CANCEL	Clear a setting or stop an automatic function.Add a separator in a digital channel number.		
✓ ▷ ► 1 F2 F3 F4	7 INFO	Get context-sensitive help.		



An on-screen slider displays when making some audio and video adjustments. Numeric values represented on the slider range from 0 (minimum) to 63 (maximum), with 31 as the mid-point.

Note: The PerfecTint, SharpEdge, and Deep Field Imager video adjustments (marked **§**) are offered on 734 series models only.

MISLESH Vide	88	Audio Reset Me	mory Perfect	Color	Global	
Captions						
	Select	¢3 Move	😁 Enter	MENU Back	пер Неір	

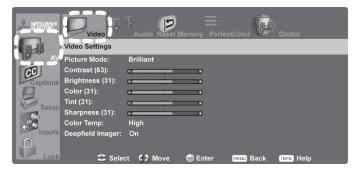
AV menu for audio and video adjustments

AV Menu Options					
Video	See the description of video adjustments later in this section.				
B B Audio	See the description of audio adjustments later in this section.				
Reset	 To reset audio and video adjustments for the current input, highlight the Reset icon and press ENTER. Reset has no effect on settings for Balance, Listen To, Language, and Film Mode. 				
	PerfectColor Slide	rs	Adjust the saturation (intensity) of six colors for the current image source.		
PerfectColor	PerfectTint Sliders §		Adjust six hues for the current image source		
	 Highlight the PerfectColor icon and press ENTER to display the <i>PerfectColor</i> menu. Settings are retained in memory independently for each TV input. 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. 				
Global	Global Video Noise High, Medium, Low, Off		Reduce minor noise (graininess) in the picture. Use Low with good-quality signals. Use High with poor-quality signals. Use Off to leave the picture unaltered. Saved by input		
	Video Mute	On, Off	On displays a blue background when no signal is being received on the current INPUT , COMPONENT , or HDMI jack.		
	Film Mode (for 480i and 1080i signals only)	Auto, Off	In Auto , the TV automatically detects and applies film- decoding correction. Try the Off setting if images show too many jagged edges. Saved by input.		
	SharpEdge §	On, Off	Add special edge enhancements to make the image appear sharper. Saved by input.		
	Lamp Mode	Standard, Bright	Standard is for most viewing conditions and may extend lamp life by using lower wattage. Use Bright in brightly lit rooms.		

🗾 Video Menu

To make video adjustments:

- From the Video menu:
 - 1. Press $\blacktriangle \nabla$ to highlight an option.
 - 2. Press \blacktriangleleft \blacktriangleright to display the submenu and adjust.
 - 3. Press MENU to return to the AV menu.
- While watching TV: Press the VIDEO key repeatedly to display the video option you want to change. Press ◀ ▶ to change settings.
- **Note:** See chapter 2, "TV Setup," for additional adjustments available for images from a computer.



AV menu, Video options

Video Menu Options						
Picture Mode	Brilliant	For use under strong light	Set the Picture Mode first before changing other video settings, as			
	Game	Optimize picture and video process- ing for gaming consoles. Available only when the name of the input is Game .	some are stored independently for each Picture Mode. Use Picture Modes to optimize the image for dif-			
	Bright	For most daytime viewing and x.v.Color sources	ferent conditions.			
	Natural	For most nighttime viewing and x.v.Color sources				
Contrast	 Low co In mos High co vibrant 	st the white-to-black level contrast shows a variety of shades in darker images ost home lighting situations, medium contrast looks best. contrast shows darker images more uniformly black and makes colors appear more int. High contrast is good for brightly lit environments. ngs are stored independently for each Picture Mode.				
Brightness						
Color	Adjust overall color intensity					
Tint	Adjust the red-to-green ratio.					
Sharpness	Adjust picture detail and clarity.					
Color Temp	Adjust the	white balance. Settings are stored independe	ently for each Picture Mode.			
	High	Give white images a cool cast. May provide the most realistic picture under bright lighting.				
	Low	Give white images a warm cast. Natural/Color Temp at the low setting displays video at approximately the 6500K industry standard for NTSC pictures.				
Deep Field Imager §	On	Black levels are dynamically enhanced in portions of the screen to provide stror contrast with detail over mixed screen content.				
	Off	Contrast is adjusted uniformly across the end	ntire screen.			
	Demo	Display a split picture to show on (right side) or off (left side).				

👸 📕 Audio Menu

To make audio adjustments:

- From the Audio menu:
 - 1. Press $\blacktriangle \nabla$ to highlight an option
 - 2. Press \blacktriangleleft \blacktriangleright to display the submenu and adjust.
 - 3. Press MENU to return to the AV menu.
- While watching TV: Press the AUDIO key repeatedly to display the audio option you want to change. Press ◀ ► to change settings.

MTSUBISH	Video
12-18	Audio Settings
AV	Speakers: TV
CC	Bass (31):
Captions	Treble (31):
Setup	Balance (31):
R Co	Listen To: Mono
	Language: English
Inputs	Level Sound: On
Lock	😂 Select 🗘 Move 🔿 Enter MENU Back (INFO Help

AV menu, Audio options

Audio Menu Op	Audio Menu Options					
Speakers	The Speakers	option displays if an A/V receiver connection has been detected.				
	τν	Turn on the internal TV speakers.				
	AV Receiver	Turn off the TV speakers and hear sound only from a connected A/V receiver.				
Bass	Control volume	e level of low-pitched sound from the TV speakers.				
Treble	Control volume	e level of high-pitched sound from the TV speakers.				
Balance	Control audio	balance between the right and left TV speakers				
Surround	Off	No surround effects from the TV speakers (default)				
	Simulated Stereo	Create a simulated stereo effect through the TV speakers when watching a mon- aural (non-stereo) program.				
	Surround Sound	Create a simulated surround effect through the TV speakers when watching a stereo program.				
Listen To (analog chan- nels from	Stereo	Default setting. The TV plays stereo broadcasts in stereo and mono broadcast in mono. The word Stereo is displayed when you tune to a channel broadcasting in stereo.				
ANT1/ANT2 only)	SAP (Second Audio Program)	Select 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				
	Mono	Reduce background noise. Use when receiving a weak stereo audio signal. All audio is played as mono with this setting.				
Language (digital chan- nels from ANT1/ANT2 only)	English French German Italian Portuguese Spanish Other	Select the current language for a digital program from an ANT input. Each digital program may include up to seven language choices or none at all.				
Level Sound	On, Off	Reduce differences in sound volume between programming segments, such as the difference between regular broadcast programs and commercial segments.				

Captions Menu

Captions on Analog Channels

The TV can decode captions from **ANT 1/ANT 2** and **INPUT 1/INPUT 2**. Broadcasters can send either standard closed captions or text service. Standard closed captions follow the dialogue of the program and display in a small section of the screen. Text-service closed captions often contain information such as weather or news and cover a large portion of the screen.

IMPORTANT

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

Captions Menu Options

Captions on Digital Channels

The TV can decode captions from **ANT 1/ANT 2** only. Broadcasters can send up to six different captioning selections or can send analog captions that match those sent by the analog station. A TV station may broadcast only one or two types of captions or none at all.

	Closed Captions				Captio	n Test
	Font	Font Size	Font Color	Font Opacity	Background Color	Background Opacity
AV Ceptions Setup	Font 1 Font 2 Font 3 Font 4 Font 5	► Large Standard Small	► White Black Magenta Red Yellow Green Cyan Blue	► Translucent Opaque Flashing Transparent	White ►Black Magenta	► Translucent Opaque Flashing Transparent
Lock	\$	Select 🔇 🕽	Move 😔	Enter MENU	Back INFO) Help

Digital Settings menu. Check the caption test area (upper right) to see how custom settings will look.

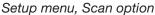
Closed Captions	Analog Captions	On if Mute CC 1–CC 4 Text 1–Text 4 Off	 On if Mute: Display analog closed captions signal CC 1 when audio from the TV speakers is muted. When watching TV, press MUTE to turn captions on/off. CC 1–CC 4: Standard closed-caption signals Text 1–Text 4: Text-service signals 			
	Analog Background	Gray, Black	Select either a gray or black text background to make analog closed captions easier to read.			
	Digital Captions	On if Mute Caption 1– Caption 6 Off	 On if Mute: Display 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 broad- caster 			
Digital Settings	Font	Default Font 1–Font 7	Default changes settings to those selected by the caption provider, or, if none, to the TV's own caption defaults. Use Fonts 1 through 7 to give captions a custom appearance.			
	Font Size	Large Standard Small	Large is the recommended size.			
	Font Color	White, Black, I	Magenta, etc.	Guidelines for setting digital captions:		
	Font Opacity	Translucent, O Transparent	paque, Flashing,	 Use contrasting colors for captions and background. Check readability of captions using the 		
	Background Color	White, Black, I	Magenta, etc.	 sample text in the upper right corner of the menu. A white font on a black translucent 		
	Background Opacity	Translucent, Opaque, Flashing, Transparent		background makes an easy-to-read combination.		

Setup Menu

Use the Setup menu to:

- Select English or Spanish for menus and on-screen text.
- Scan the channels available for the antenna or cable service connected to the **ANT 1** or **ANT 2** jacks.
- Edit channel options, including channel locking.
- Set the TV's internal clock.
- Set the TV Timer to turn on the TV automatically at a designated time.
- Set the energy mode for power consumption when the TV is powered off.





Setup Menu Options							
Language	English Spanish	Display on-screen menus in either English or Spanish. Note: To listen to audio in other languages (when available), see the section on the <i>AV</i> menu, <i>Audio</i> submenu, and refer to either Listen To > SAP (analog signal) or Language (digital signal).					
Scan	Ant-1 Air Ant-1 Cable Ant-2 Air Ant-2 Cable	 Scan memorizes broadcast channels to make them easier to find. To start channel memorization: 1. Highlight one of the input selections based on your connection to ANT 1 or ANT 2: Air when connected to an indoor or outdoor antenna. Cable when connected to direct cable (no cable box) Press ► to highlight START. 3. Press ENTER to start channel memorization for the selected input. 					

Notes on Scan and channel memorization:

- Channel memorization may take up to 15 minutes to complete.
- To stop channel memorization before completion, press CANCEL.
- When watching TV, press $CH \blacktriangle \nabla$ to move through memorized channels.
- To add a digital channel that does not appear in the *Edit* menu without repeating channel memorization:
 - 1. Look up the physical channel number for the new digital channel. www.antennaweb.org can help you find the physical channel number.
 - 2. Tune to any channel on the ANT 1 or ANT 2 input your antenna is connected to.
 - 3. Use the number keys and (CANCEL) to enter the physical channel number followed by "-1" and ENTER. For example, for physical channel 36, press

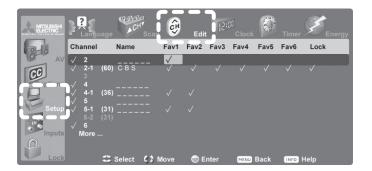


The TV will search for a digital channel on the channel 36 frequency. When it finds the channel, it will:

- a. Add the channel to memory.
- b. Change the channel number to the virtual channel number sent by the broadcaster.
- c. Add to memory any associated sub-channels.



Setup Menu, continued



Virtual Channel Number (digital channels only) A channel number sent by a local broadcaster to help identify their digital channel. Usually the virtual number is associated with the corresponding analog channel number. For example, a broadcaster may be associating 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 parentheses.

Setup Menu Options

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Edit

Use the *Edit* menu to edit channel options when ANT 1 or ANT 2 is the current source, To highlight a channel number to edit: Press $CH \wedge V$ to jump to the next page of channel numbers. Press and hold $CH \wedge V$ to speed through pages. Press ▲ ▼ to move through all channel numbers, one at a time. Press and hold ▲ ▼ to speed through channel numbers. The TV tunes to the highlighted channel on release of CH \wedge/\vee or $\blacktriangle \nabla$. Channel 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. Digital channels are listed by virtual channel number with the physical channel number shown in parentheses. Name Lets you assign a custom name up to six characters long to memorized channels. You can name analog channels and also name digital channels if broadcast without pre-assigned names. 1. With the cursor in the **Name** field, press a number key repeatedly to cycle through the characters associated with the key. 2. Press ENTER to set the letter and move to the next letter position. To delete the current character and move back one position, press CANCEL. Fav1-Fav6 Use the six Fav channel banks to store groups of your favorite channels. For example, you can set up a Fav channel bank for each of your favorite program types (e.g., sports, news, children's programs) or set up a bank for each TV user. Use $\blacktriangle \lor \dashv \lor$ to move the highlight through the **Fav** area of the screen. . Press ENTER to insert a check mark to add the highlighted channel to one of the Fav banks. The same channel can be added to multiple FAV banks To remove a channel from a Fav bank, highlight the check mark and press ENTER. Note: To set up Fav channel banks without using this menu, see chapter 4, "TV Operation and Features." Lock Lock channels so that a pass code is required to view them. When you rememorize channels, the lock settings are cleared. Highlight the **Lock** column and enter a pass code when prompted. If you previously set a pass code to open the main *Lock* menu, use the same pass code. See the description of the *Main* menu > *Lock* for more on pass codes. Press **ENTER** to insert a check mark to lock the highlighted channel. To unlock a channel, highlight the check mark and press ENTER.



Use either the manual or auto method to set the clock. Set the clock if you wish to:

- Use the TV's Timer function.
- Maintain accurate ChannelView listings.

	Language	CH' Sca	5	Edi	k 🕅 Time	r Energy
0-18	Settings	Time	Date	Time Zone	Daylight Savi	ngs Time
AV CC Setup	► Manual Auto	12:00 PM	01/01/07	► Eastern Central Mountain Pacific Alaska Hawaii Atlantic	► Applies Ignore	
Lock	\$	Select 🔇 🕽	Move	Enter MENL	Back INFO	l Help

Setup menu, Clock options

Setup Menu Opt	ions					
Clock	Settings	 Select Manual. Set the time of of Set the date. Select your time Select either Ap Note: If using Manumenu and set the TV Auto. To set the close Select Auto. Select your time Select either Ap After exiting the a PBS station. Note: With the Auto set The TV's clock we data. To prevent 	ne of day. tte. ur time zone. her Applies or Ignore for Daylight Savings Time . Manual , each time the time change occurs, you must open this the TV's clock ahead or back. the clock automatically: to. ur time zone. her Applies or Ignore for Daylight Savings Time. her Applies or Ignore for Daylight Savings Time. her the menus, tune the TV to a station carrying XDS data, typically			
	Time (Manual option only) Date (Manual	 AM/PM indicat Press ENTER to se With the minute hold to change With the month H With the day hig 	es highlighted, press ▲ ▼ to change the minutes. Press and the minutes display quickly. nighlighted, press ▲ ▼ to select. Press ENTER to set. ghlighted, press ▲ ▼ to select. Press ENTER to set.			
	option only) Time Zone	Eastern, Central, Mountain, Pacific, etc.	ghlighted, press ▲ ▼ to select the current year. Required for both the Manual and Auto methods.			
	Daylight Savings Time	Applies Ignore	Required for both the Manual and Auto methods. Select the option for your area.			



Use the Timer to set a time for the TV to turn on automatically. 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 tune to the designated channel.

- The TV clock must be set before you can use the Timer feature.
- 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.
- The POWER/TIMER indicator flashes green when the TV is off to indicate the TV Timer has been set.

A MESUBISHI	Language	CH ^Y Scan	Edit	Input	Channel	Energy
Setup Inputs	► On Off	► Daily Mon-Fri Sunday Monday Tuesday Wednesday Thursday Friday Saturday	12:00 PM	► Ant-2 VCR DVD		
P Lock	4	Select 🔇 🕽 N	Nove 🌚 E	nter MENU B	ack INFO Hel	р

Setup menu, Timer options

Setup Me	nu Options								
as a	Timer	On, Off	On, Off						
Timer	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	 With the hour PM indicator. Press ENTER to 	 To set the time for the TV to come on: 1. With the hour highlighted, press ▲ ▼ repeatedly to change the hour and the AM/ PM indicator. Press and hold to change the hour display quickly. 2. Press ENTER to highlight the minutes. 3. Press ▲ ▼ to change the minutes. Press and hold to change the minutes display quickly. 						
	Input	Ant-1, Ant-2, 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>Input Selection</i> menu.							
	Channel	If the input is an antenna (ANT 1, ANT 2), press $\blacktriangle \nabla$ repeatedly or press and hold to scroll quickly through the available channel numbers.							
	Use the En	ergy Mode option to	select the level of power consumption while the TV is turned off.						
	Energy	Fast Power On	The default setting.						
Energy	Mode	Low Power	Uses less energy, but TV power-on takes longer and some TV fea- tures may be unavailable.						
	Have factors	aster power on.	er On if you need to:						

- Receive updates to ChannelView channel listings.
- Keep the TV Clock accurate for the TV Timer With the **Low Power** setting, you must reset the TV Clock if the TV is left turned off for over 48 hours.

Inputs Menu

Note:

- NetCommand IR control of home-theater devices is available on Y series and 734 series models only.
- When you change an input name in the *Name* menu and then exit the *Name* menu:
 - The name is changed
 - The icon in the *Input Selection* menu is changed
 - Settings are changed to the defaults for the new device type.
 - On models offering NetCommand control, all "learning" for the input is also erased.

2 mi Ant-1 Ant-2 Input-1 Input-2 Input-3 Comp-1 ►Comp-1 ►On ►Off ▶ Input-1 ► Input-2 ► Input-3 CC Comp-2 Comp-3 HDMI-1 HDMI-2 HDMI-3 ►Comp-2 ►Comp-3 ► HDMI-1 ► HDMI-2 ► HDMI-3 😂 Select 🔇 🕽 Move 🛛 😓 Enter NU Back

Change input names using the Inputs > Name menu.

Inputs Menu Options

????? Image: Name	Cable Box, Camcorder, DVD, DVD2, DVR, Game, HD Disc, Satellite, VCR, PC, On/Off (ANT 1/ ANT 2 only) Off (HDMI only)	 Assign or change names of inputs appearing in the <i>Input Selection</i> menu. Turn Ant-1 and Ant-2 On or Off. Turn unused HDMI inputs Off. Press ▲ ▶ to move between inputs. Press ▲ ▼ to select a name. If you change the name of an input after performing NetCommand "learning," the IR codes you "learned" are erased. Note: When you disconnect an HDMI device, the icon remains in the <i>Input Selection</i> menu until you remove it. To remove an unwanted HDMI icon, select Off for the HDMI input. 				
Order	 Put frequently used icons at the start of the <i>Input Selection</i> menu. Press ▲ ▼ ◀ ▶ to highlight the icon to move. Press ENTER to confirm the selection. Press ▲ ▼ ◀ ▶ to drag the icon to the desired position. Press ENTER to set the new position. 					
Learn	 Y series and 734 series only Perform initial set-up of NetCommand control of a device. Add or remove individual keys from NetCommand control of a device. See detailed instructions in chapter 6, "NetCommand." 					
AVR	 Y series and 734 series only Set up NetCommand control of an A/V receiver. This set-up allows you to: Operate the A/V receiver's power and volume functions with the TV's remote control. Make the A/V receiver switch automatically to the correct audio input when you select a device in the TV's <i>Input Selection</i> menu. See detailed instructions in chapter 6, "NetCommand." 					

Lock Menu

TV locks available from the *Lock* menu are:

P	Parent	<i>Lock by Ratings</i> Restrict access to programming based on V-Chip rating signals sent by the broadcaster.
0	Other	,
0		Lock by Time
Ø	Time	Restrict TV use by time of day.
\bigcirc	Front	Lock Front Panel
FP	Panel	Disable the controls on the front of the TV. Use this option if small children in the home try to press front-panel buttons.

Note: Channel Lock is an additional lock that blocks access to specific channels. Channel Lock is available under the **Setup** menu (**Setup** > **Edit** > *Lock*).

Setting or Resetting a Pass Code

Setting a Pass Code

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

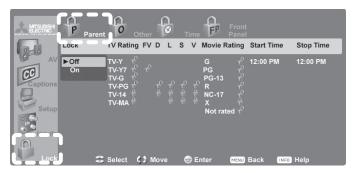
- 1. Press MENU, highlight Lock, then press ►. A screen prompting you for a pass code will display.
- 2. Input a four-digit pass code using the number keys on the remote control.
 - Press CANCEL to delete a number and move back one space.
 - Press MENU or EXIT to close the menu without setting a pass code.
- 3. Press ENTER to set the pass code.

Resetting a Pass Code

See the procedure in Appendix B.

Important Notes on Rating Locks

- *Parent* menu rating locks apply only to channels and signals received on ANT 1, ANT 2, INPUT 1, and INPUT 2.
- **Other** menu rating locks apply only to digital channels received on **ANT 1** or **ANT 2**.
- When viewing a cable box, satellite receiver, or other device connected to the COMPONENT or HDMI inputs, check the device's menu for rating locks.



The Lock > Parent menu lets you set parental controls based on V-Chip technology.

Parent 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* > *Parent* 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 broadcast with an alternate system.

Bypassing TV Locks

If you try to watch a blocked program or channel or try to use the TV while it is locked by time, a notice appears prompting you for a pass code. To use the TV:

- Input your four-digit pass code and press ENTER.
- Change to a channel airing an allowed program or change to another device.

To reactivate the parent ratings lock or TV Lock by Time after using the pass code:

- Power the TV off and then on to reactivate both locks.
- Change to a different channel or device to reactivate only the parent ratings lock.

Lock Menu, continued

P

Parent Menu Options (U.S.-based rating system)

Option Name and Description								
Lock	Off, On	Disables or enables program blocking based on V-Chip signals and the U.S. rating system.						
TV Rating	TV-Y	Youth. For children under 7.	Highlight the rating level you wish to					
	TV-Y7 TV-G	Youth 7 and older. General Audience. For the entire family.	change and press ENTER to block it (🍙) or allow					
	TV-Q	Parental Guidance. Parental Guidance recommended; may not be suitable for some children.	it (1). You can apply supple- mental content block-					
	TV-14	Adolescent 14 and older. Not recommended for children under 14.	ing to the age-based ratings by using the					
	TV-MA	Mature Audience. For adults only.	TV content categories listed below.					
FV	Fantasy Vi	olence. Applies to TV-Y7 only.						
D	Sexual Dia	exual Dialog. Applies in differing degrees to TV-PG and TV-14.						
L	Adult Lang	dult Language. Applies in differing degrees to TV-PG, TV-14, and TV-MA. TV Content						
S	Sexual Situ	cual Situations. Applies in differing degrees to TV-PG, TV-14, and TV-MA.						
V		Violence (graphic or realistic). Applies in differing degrees to TV-PG, TV-14, and TV-MA.						
Movie	G	General Audience. Designed for the entire family to view.						
Rating	PG	Parental Guidance. Parental Guidance is recommended, may not be	e suitable for some children.					
	PG-13	Parental Guidance, 13 and Older. Not recommended for child	ren under the age of 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.					
	x	Adult. Designed for and restricted in theaters to adult audience	s only.					
	Not Rated	The program has not been assigned an MPAA rating.						
Start Time Stop Time	 e 1. Highlight the hour digits for Start Time. 2. Press ▲ ▼ repeatedly to change the hour and associated AM/PM indicator. You can also just press and hold to move quickly through the numbers. 							



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Lock Menu, continued

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 to digital programming only.

Option Name and Description				
Lock	On, Off	On, Off Enable or disable program blocking.		
System Name	The rating s	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.			



Block 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 Time, Unlock Time	To set the lock a	and unlock times:
	 Press ▲ ▼ n through the Press ENTER With the min through the Highlight the 	e hour digits for the Lock Time. repeatedly to change the hour and associated AM/PM indicator. To move quickly numbers, just press and hold. to set the hour and highlight the minutes. nutes highlighted, press ▲ ▼ repeatedly to change the minutes. To move quickly numbers, just press and hold. e Unlock Time digits and set the time as described above. e Lock by Time active 24 hours a day, make Start Time and Stop Time the same.



On, Off	On locks and Off unlocks the controls on the front of the TV. Use this option if small children may try to press TV buttons.
	If the remote control is unavailable, use the front-panel buttons to release the front panel lock by doing one of the following:
	• If the TV is on, press and hold the MENU button for over eight seconds. A message will display to confirm release of the Front Panel Lock.
	 If the TV is off: In Fast Power On Energy Mode, press and hold the MENU button on the front panel for over eight seconds. The TV will power on and release the lock. In Low Power Energy Mode, press POWER on the front panel to turn on the TV. With the TV on, press and hold MENU on the front panel for over eight seconds.

About NetCommand

• NetCommand home-theater control is available on the following models:

Y series WD-Y577, WD-Y657

734 series WD-57734, WD-65734, WD-73734.

This chapter applies only to these models.

- 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 emitters, telling the devices to play, record, change inputs, adjust volume, change channels and many more functions. All this is accomplished with the TV's remote control and the slide switch left in the TV position.
- The IR "Learning" feature of NetCommand allows the TV to learn the remote control signals for your A/V devices.

- You can choose the level of NetCommand control for your home theater.
 - Standard Setup. Perform a standard setup if you want NetCommand to control only a few devices, such as the TV, a playback device (like a DVD player), and a cable box. With this setup, you can use the TV's remote control to operate these devices.
 - A/V Receiver Setup. Perform A/V receiver setup if you want NetCommand to:
 - Control a surround sound A/V receiver.
 - Automatically change audio input selections on an A/V receiver when you change inputs on the TV.

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. See the explanation on the following page.

IR Emitter Placement (NetCommand®)

An IR emitter cable is included with the TV.

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

- Connect the plug end of the supplied IR emitter cable to the IR EMITTER NetCommand® jack on the TV back panel.
- 2. Run the cable for each of the emitter ends under, alongside, or over each device to be controlled so that the emitter end is in front of the area where the remote control sensor is located.
- Position the emitter end with the emitter bulb facing the 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.

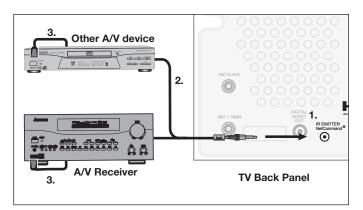
The IR sensor is usually behind the plastic window of the front display panel. It is sometimes visible with the aid of a flashlight and is normally a round or square cutout behind the plastic. If you cannot see the sensor and the device's Owner's Guide does not specify the location, you can find it by following these steps using the device's remote control:

- a. Hold the device's remote about one-half inch from the front of the device. Starting from one end of the display window plastic, press the **POWER** button.
- b. If the device does not respond, move the remote control one inch toward the center and try again.
- c. Repeat this until the device responds.
- d. Note this location and then start over from the other end of the display window plastic, repeating until the device responds again.

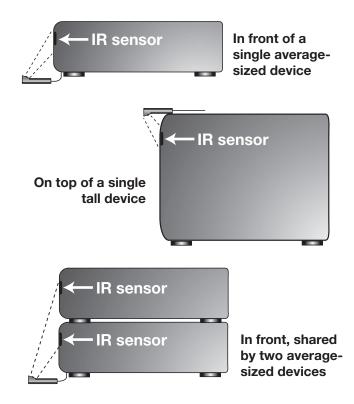
The remote control sensor is somewhere between these two positions. This is usually enough accuracy for placement of the IR emitters.

With some devices, the emitter works better facing downward from the top of the device. Experiment to find what works best.

- 4. 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 Emitter NetCommand



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

IMPORTANT

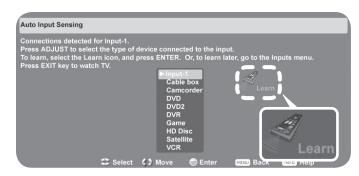
Position IR emitters so that each device's sensor "sees" the signal from only one emitter. Otherwise, a device receiving signals from multiple sources (remote controls, IR emitters) may not respond at all.

Initial NetCommand Setup for Most Devices

To perform this procedure, you need:

- The remote controls for both the TV and the device you want to control.
- The IR emitter cable supplied with the TV.
- Note: To set up an A/V receiver, see "Set Up NetCommand Control of an A/V Receiver" later in this chapter.
- 1. Connect and position the IR emitters for the devices you wish to control. See "IR Emitter Placement" in this chapter.
- Set the *TV's* remote control slide switch to the *TV* position.
- Open the NetCommand *Learn* screen in one of two ways:
 - If working from the *Auto Input Sensing* screen for the device, highlight the Learn icon 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 INPUT to open the *Input Selection* menu.
 - 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 *Learn* screen for the device.
- 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 press 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 this step.
 - To remove the key from NetCommand control, press the CANCEL key while the key name is highlighted.
- 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.
- If the device's remote control has keys that are not in the list, you can associate up to any four keys with the F1 through F4 keys.

For example, for a DVD player, assign the F1 and F2 keys to the DVD player's CHAPTER SKIP FORWARD and



From the Auto Input Sensing screen, highlight the Learn icon and press ENTER to open the NetCommand Learn screen.

Learn for Satellite	AVR Rorder		
AV Captions Captions Page Up Adjust Lt Page Up Adjust Rt	Learn for Satellite		
Page Dn Enter Cancel 1. To learn the Power key for 5. Ny the text is flashing, pro 3. When the check appears Lock CS Select CS	√ Power On Guide Channel Up Channel Dn	Menu Adjust Up Adjust Dn Adjust Lt	
Inputs > Learn screen	Page Up Page Dn	Adjust Rt Enter Cancel	

CHAPTER SKIP BACK keys. Perform NetCommand setup for the F keys the same as you did for the named keys.

- 8. 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.
- 9. Press **EXIT** to finish NetCommand "learning" for the current device.

Add or Remove Device Keys from NetCommand Control

- 1. Press INPUT to open the *Input Selection* menu and select the affected device.
- 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 for Most Device Types."
 - 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.

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. The chart has space for you to write in functions you assign to the F1–F4 keys. See the following page for more on keys marked in the "Special Operation Method" column.

Key Name in Learning Screen	Function			
Power On	Power On or Power ON/OFF (toggle)	POWER	*	
Guide	On Screen Program Guide or Disc Menus	GUIDE	*	
Channel Up	Next Channel Higher	CH/PAGE 🔨		
Channel Dn	Next Channel Lower	CH/PAGE 🗸		
Page Up	Page Up in Guides	CH/PAGE 🔨	*	
Page Dn	Page Down in Guides	CH/PAGE 🗸	*	
Menu	Setup menu for device	MENU	*	
Adjust Up	Adjust or arrow up			
Adjust Dn	Adjust or arrow down	▼		
Adjust Lt	Adjust or arrow left	•		
Adjust Rt	Adjust or arrow right			
Enter	Enter or Select (menus)	ENTER	*	
Cancel	Cancel or erase (menus)	-/CANCEL	*	
Play	Start playback	\square		
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	Digit functions	1, 2, 3, 4, 5, 6, 7, 8, 9, 0		
Enter (digits)	igits) Use after digits to directly access channels by number		*	
- (separator)	Add digital channel separator between main channel number and sub-channel number	-/CANCEL	*	
Recall (QV)	Last Channel Recall	QV		
Info	On-screen status display or information display	INFO	May require two key- presses	
F1	ASSIGN YOUR	F1		
F2	CHOICE OF	F2		
F3	SPECIALIZED	F3		
F4	FUNCTIONS	F4		
Power Off	Power Off	POWER		

Operating NetCommand-Controlled Devices

To Control 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 CH/PAGE \land . NetCommand then sends the "learned" channel-up control signal to the cable box.

- With an IR emitter properly positioned in front of the device, use the *Inputs* > *Learn* screen to perform NetCommand setup for the device.
- 2. When you wish to use the device, press **INPUT** to display the **Input Selection** menu.
- 3. Press $\blacktriangle \lor \blacklozenge \lor$ to highlight the icon for the device.
- 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.
- 5. To operate the device using the *TV's* remote control, set the slide switch to the *TV* position.
- Point the remote control at the *TV* (not the device) and press the key for the desired function.

Special Operation Methods

To Control an A/V Receiver

Switching Audio to and from the A/V Receiver

- 1. Press AUDIO.
- 2. Press ▲ to show the **Speakers** option.
- 3. Press ► to select either AV Receiver or TV.

Controlling A/V Receiver Power

- 1. Press 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.

Controlling Other A/V Receiver Functions

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

Key Name in Learning Screen	Special Operation Description and Setup	Но	w to Use
Power On	Manual Power On/Off Use for devices that have only one POWER key.		 Press INPUT to display the <i>Input Selection</i> menu. Press ▲ ▼ ◀ ▶ to highlight the icon for the device to be powered on or off. With the <i>Input Selection</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>Input Selection</i> 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 learn- ing position; use only the Manual Power ON/OFF method described above. In the NetCommand <i>Learn</i> screen:		 Press INPUT to display the <i>Input Selection</i> menu. 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.
	 a. "Learn" the Power On command in the Power On learning position. b. "Learn" the Power Off command in the Power Off learning position. 	•	To Power Off the Device When you turn the TV off, the TV sends all learned Power Off commands to all devices.
Menu	Displaying the Menu for a Device	1.	While watching a device, press INPUT to display the <i>Input Selection</i> menu with the device icon highlighted.
		2.	Press MENU to send the menu signal to the device. The <i>Input Selection</i> menu will auto-matically clear from the screen.

Key Name in Learning Screen	Special Operation Description and Setup	How to Use		
Guide	Displaying the Disc Menu (DVD or high-defini- tion disc format)	While watching the device, press GUIDE to display the disc menu.		
	"Learn" the DISC MENU , TOP MENU , or other key as named on the original remote in the Guide learning position.			
	Displaying the On-Screen Program Guide (cable box or satellite receiver)	 While watching the device, press GUIDE to display the guide. 		
	 "Learn" the GUIDE key on the original remote in the Guide learning position. 	2. Press CH/PAGE ∧/∨ to send the Page Up/Dn commands for the guide.		
	2. Learn the PAGE ∧ and PAGE ∨ keys of the original remote in the Page Up and Page Dn learning positions.			
Page Up	Using Page Up/Down	Inside the Guide		
Page Dn	If the device's original remote control has separate keys for Channel Up/Dn and Page Up/Dn , the TV remote control's CH/PAGE \wedge/\vee key can work like the two separate keys.	Press CH/PAGE ∧/∨ to send the Page Up/Dn com- mands. Outside the Guide Press CH/PAGE ∧/∨ to send the Channel Up/Dn signal.		
	1. "Learn" CHANNEL ∕∕∕∕∕ in the Channel Up/Dn positions.			
	 "Learn" PAGE ^/ → in the Page Up/Dn positions. 			
Enter	Enter Functions (cable boxes, satellite receivers	s, etc)		
	Some devices have two keys that have "enter" funct SELECT or OK. A second key is for use with number key the same ENTER key for both operations.	tions. One key is for menus and is often labelled eys for direct channel selection. NetCommand uses		
	When ENTER has a menu or guide function or when the original remote control uses the same key for menus and channel selection:	 Press MENU or GUIDE to display the device's menu or guide. Press ENTER within the menu and NetCommand 		
	Learn the ENTER, SELECT, or OK key in the NetCommand Enter learning position.	will send the Enter signal for menus.		
Enter (digits)	When ENTER is for channel changes, i.e., the original remote control has a separate ENTER key for this function):	Press digit key(s) and then press ENTER. NetCommand will send the Enter signal for channel selection.		
	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.			
Cancel	CANCEL as the Cancel or Exit Function	1. Press $\ensuremath{\texttt{MENU}}$ or $\ensuremath{\texttt{GUIDE}}$ to display the menu or guide.		
	"Learn" the Cancel or Exit function in the NetCommand Cancel learning position	 Press CANCEL and NetCommand will send the Cancel or Exit signal. 		
— (separa- tor)	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)	Press digit key(s) and press (CANCEL). NetCommand will send the channel-separator signal.		
	channel is 12, sub-channel is 1).			

Setting Up NetCommand Control of an A/V Receiver

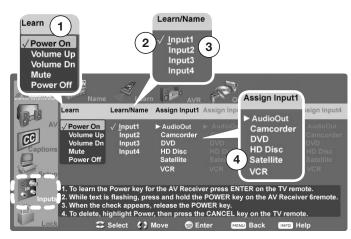
Perform this setup to:

- Operate the A/V receiver's power and volume functions with the TV's remote control.
- Enable the A/V receiver to switch automatically to the correct audio input when you select a device in the TV's *Input Selection* menu.

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

- The remote controls for both the TV and the A/V receiver.
- The IR emitter cable supplied with the TV.
- **Note:** To set up control of other device types, see "Initial NetCommand Setup for Most Devices" earlier in this chapter.

Perform this setup using the *Inputs* > *AVR* screen, shown below.



AVR screen overview

- **1.** Power and volume commands the TV can send to the *A/V* receiver when "learned"
- A check under Learn/Name means the TV has "learned" the command to switch the A/V receiver to the input.
- **3.** Input1 through Input4 are placeholder names for A/V receiver inputs. Use this screen to assign meaningful names , e.g., the name of the A/V receiver input.
- **4.** Match up devices connected to the TV inputs with audio inputs on the A/V receiver.

Setup to Control the A/V Receiver's Power and Volume Functions

- Connect your A/V receiver to the TV and any additional devices. See chapter 2, "TV Connections," for suggestions.
- Connect the IR emitter cable to the TV and position the IR emitter where it can send signals to the A/V receiver.

- Set the *TV's* remote control slide switch to the TV position.
- 4. Open the **AVR** screen in one of two ways:
 - If using the *Auto Output Sensing* screen for the A/V receiver, highlight the Learn icon and press ENTER to open the *AVR* screen.
 - If performing NetCommand setup at any time after the A/V receiver has been recognized through Auto Input Sensing:

Press MENU, highlight Inputs, and highlight AVR to open the *AVR* screen.

 The first function highlighted in the *AVR* screen is always **Power On**. Aim the *TV's* remote control at the TV and press ENTER to begin learning for **Power On**.



A/V Receiver (AVR) screen. Perform NetCommand IR "learning" for A/V receiver power and volume keys.

- 6. When the **Power On** text starts flashing, aim the *A/V receiver's* remote control at the TV and press and hold the **POWER** or **POWER ON** key until a check mark appears next to **Power On**.
 - 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.

By completing "learning" for the power key, NetCommand now operates the power function for the A/V receiver.

Point the TV's remote control at the TV to control the A/V receiver.

- Press the ▼ key on the *TV's* remote control to highlight other keys in the list. Repeat steps 5 and 6 for each additional function you wish to control through NetCommand.
- If the A/V receiver has a separate POWER OFF key, press ▼ on the *TV's* remote to highlight Power Off. Repeat steps 5 and 6 to "learn" the POWER OFF key.
- 9. When finished "learning" the power and volume keys, either press **EXIT** to watch TV or proceed to the next section to continue NetCommand setup of the A/V receiver.

Setting Up NetCommand Control of an A/V Receiver, continued

Setup to Control Automatic Switching of A/V Receiver Audio Inputs

Two different setups are described here:

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

Setup 2: Automatic A/V Receiver Switching for a device sending audio directly to the A/V receiver

• Audio Available from TV only: Use Setup 1. Audio from ANT 1 and ANT 2 must be sent to the A/V receiver from the TV's DIGITAL AUDIO OUT or analog AVR AUDIO OUTPUT.

Use Setup 1 to make the A/V receiver switch to its designated TV audio input when viewing these sources.

- HDMI Digital Stereo Audio: Use Setup 1
 Digital stereo audio from an HDMI connection
 is available both in digital format (from the TV's
 DIGITAL AUDIO OUT) jack and in analog format
 (from the TV's AVR AUDIO OUTPUT jack).
- Analog Stereo Audio: Use Setup 1.

Audio from sources with only analog stereo output (such as a VCR) can be sent either directly to the A/V receiver or through to the TV and then on to the A/V receiver.

Mitsubishi recommends you send audio through the TV as shown in the example. Setup 1 causes the A/V receiver to switch to its input designated for TV audio.

If you have a digital A/V receiver, the TV makes the audio available by converting analog audio to a digital output.

• Digital Surround Sound: Use Setup 2.

A device can send digital surround sound such as Dolby Digital or DTS directly to the A/V receiver, bypassing the TV entirely. 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.

Before You Begin

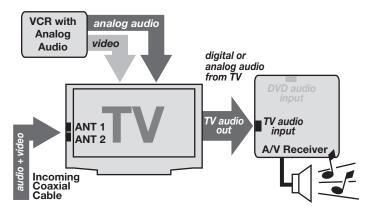
- Connect your A/V devices to the TV and connect your A/V receiver to the audio outputs on the TV and DVD player. See chapter 2, "TV Connections," for suggestions.
- 2. Open the *Inputs* > *AVR* menu.
- **Note:** The terms **Input 1–Input 4** used in the *AVR* screen are temporary placeholder names. They refer to the A/V receiver inputs for which the TV can learn IR codes.

Setup 1: Automatic A/V Receiver Switching to Its TV Audio Input

Most devices are set up like the VCR in this example, in which analog audio from the device is sent through the TV.

Use this setup for:

- Sources providing only analog stereo output, such as a VCR
- Audio from ANT 1 and ANT 2



Setup 1: A/V receiver audio from the TV's digital or analog audio output (**DIGITAL AUDIO OUT** or **AVR AUDIO OUTPUT**)

1. Under Learn/Name, press ▲ ▼ ◀ ▶ to highlight the area next to Input 1.

In this example, the IR code for the A/V receiver's **TV Audio** input will be "learned" as **Input 1**.

- 2. Press ENTER on the TV's remote control.
- 3. While the text **Input1** is flashing, press and hold the **TVINPUT** key on the *A/V receiver's* remote control.
- 4. When a check appears next to **Input 1**, release the **TV INPUT** key.

IMPORTANT

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

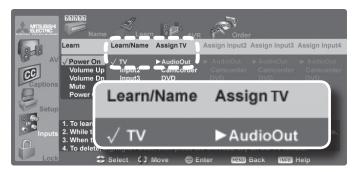
- physically connected the TV to the A/V receiver
- selected the A/V receiver as the audio source.
 Press AUDIO, then ▲ to show the Speakers option, then ▶ to select the A/V Receiver.
- "learned" the IR codes for the A/V receiver inputs
- chosen the correct input in the NetCommand A/V Receiver Learn screen

Setting Up NetCommand Control of an A/V Receiver, continued

- 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 ▶ to highlight the name Input1. You can enter a custom name using the letters/numbers on the remote control. It is best to assign names to "learned" inputs that match the input names displayed on the A/V receiver. For this example, enter the custom name TV using these guidelines:
 - To select a character, repeatedly press a number key on the remote control to cycle through the characters associated with the key.

The following special characters are available by using the 1 and 0 keys:

- 1: ! & blank space
- 0: / * -
- Press ENTER to set the character and move the highlight to the next character.
- To delete a character, highlight the character and press CANCEL.
- To highlight the first character, repeatedly press CANCEL.
- 6. Press ► to move the highlight to the Assign column.
- Use ▲ ▼ to highlight AudioOut (TV audio output). The triangular marker is always next to the assigned sound source.
- Press EXIT if finished or continue with setup for another TV source.



Completed NetCommand setup described for controlling A/V receiver switching to the A/V receiver's audio input labelled "TV."

Setup 2: Automatic A/V Receiver Switching for a Surround Sound Device

Use this setup to send digital surround sound directly from a device to an A/V receiver.

1. Under Learn/Name, press ▲ ▼ ◀ ▶ to highlight the area next to Input2.

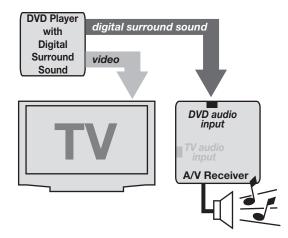
IMPORTANT

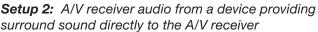
All audio from what you are watching on the TV is always available as an output on both the TV's AVR AUDIO OUTPUT and DIGITAL AUDIO OUT jacks.

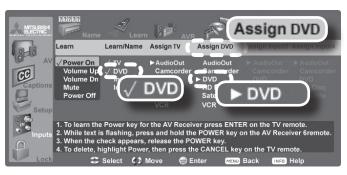
To use the digital surround sound capabilities of your A/V receiver however, you must connect your DVD player, satellite receiver, or cable box directly to the A/V receiver, as surround sound may not be available from the TV's audio output.

In this example, the IR code for the A/V receiver's **DVD Audio** input will be "learned" as **Input 2**.

2. Press ENTER on the TV's remote control.







Completed NetCommand setup described for controlling A/V receiver switching to an A/V receiver input labelled "DVD."

- 3. While the text **Input2** is flashing, press and hold the DVD INPUT key on the *A/V receiver's* remote control.
- 4. When a check appears next to **Input 2**, 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.

Setting Up NetCommand Control of an A/V Receiver, continued

- Press ► to highlight the name Input2. Assign a custom name that matches the input name displayed on the A/V receiver. For this example, enter the custom name DVD using the guidelines given earlier.
- 6. Press ► to move the highlight to the second **Assign** column.
- Use ▲ ▼ to highlight DVD in the list of devices recognized by the TV. The triangular marker always shows the assigned sound source.
- 8. Press **EXIT** if finished or continue for additional TV sources.

Appendices

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Appendix A: Specifications

Size, Weight, and Power Consumption					
Model	Dime	ensions (Weight		
	Height	Width	Depth	(lbs.)	Power
WD-C657	39.5	58.2	15.3	76	275 w
WD-57733	35	51.2	13.9	62	275 w
WD-65733	39.5	58.2	15.3	76	275 w
WD-73733	43.6	65.2	17.5	108	275 w
WD-Y577	35	51.2	13.9	62	280 w
WD-Y657	39.5	58.2	15.3	76	280 w
WD-57734	35	51.2	13.9	62	280 w
WD-65734	39.5	58.2	15.3	76	280 w
WD-73734	43.6	65.2	17.5	108	280 w

Inputs				
Туре	Qty.	Input Specifications		
Antenna/Cable input	2	RF F connector, 75-ohm		
HDMI (digital video/audio)		EIA-861D standard for digital audio and video via HDMI		
WD-C657	2	HDMI standard connector Video: 60 Hz: 480i, 480p, 720p, 1080i		
WD-57733 WD-65733 WD-73733	3	24 Hz, 30 Hz, 60 Hz: 1080p Audio: PCM stereo PC (digital signals only):		
WD-Y577 WD-Y657 WD-57734 WD-65734 WD-73734	4	VGA (640 x 480, 60 Hz) W-VGA (848 x 480, 60 Hz) SVGA (800 x 600, 60 Hz) W-SVGA (1064 x 600, 60 Hz) XGA (1024 x 768, 60 Hz) 1280 x 720, 60 Hz SXGA (1280 x 1024, 60 Hz) 1920 x 1080 (60 Hz) WXGA (1360 x 768, 60 Hz))		
Composite Video	3	NTSC 480i only Video: RCA Pin Plug, 1.0 V p-p, 75 ohm		
S-Video	2	Four-Pin DIN Plug Y: 1.0 Vp-p 75-ohm C: 0.286 Vp-p (burst signal), 75-ohm		
Component Video (Y/Pr/Pb)				
WD-C657	2	EIA-770.1 & EIA 770.2 480i, 480p, EIA 770.3 720p and 1080i (TV analog		
WD-57733 WD-65733 WD-73733 WD-Y577 WD-Y657 WD-57734 WD-65734 WD-73734	3	 component video standards) RCA Pin Plug Y: 1.0 Vp-p (includes sync), 75- ohm Pr: 700 mV p-p, 75-ohm Pb: 700 mV p-p, 75-ohm 		
USB Photo Port	1	Can be used only for reading JPEG files.		
Audio Inputs	6 pairs	Analog left and right audio RCA Pin Plug 500 mV (full scale), 43-k ohm		

Outputs				
Description	Qty.	Output Specifications		
Audio Speakers	2	5.5" x 2.2"		
Analog Audio (Signal)	1 pair	RCA Pin Plug, 500 mV rms \pm 200 mV (full scale) for analog sources, 1.5 Vrms \pm 0.5 Vrms (full scale) for digital sources.		
Digital Audio Output	1	RCA Pin Plug, Signal Type Dolby Digital, PCM stereo		

Image Technology	Lamp
DLP, 0.65" chip, 1920 x 1080 pixels with Smooth Picture™	180-watt VIP type

Channel Frequency Reception	Over-the-Air: VHF 2–13, UHF 14–69 Analog Cable: 1–125 Digital Cable: 1–135	
Channel Type*	Over the Air:	Analog NTSC, Digital ATSC with sub-channels (all 18 video formats)
	Cable:	Analog NTSC (non-scrambled) Digital QAM 64 and 256 with sub- channels (non-scrambled)

* Note for Digital Channels: The channel numbers displayed on screen are determined by the broadcaster or cable company and can vary from the standard frequency number. If there is no channel-number information provided by the broadcaster or cable company, the TV creates a channel number. The created channel number uses the frequency number as the main channel number and the program number as the sub-channel number.

HDMI

The HDMI inputs are compliant with EIA-861D standards for standard, extended, and high-definition video; digital audio, and HDCP copy protection.

	Appendices	59
Appendix B: Bypassing the Parental		
	Bypassing the Parental Lock	
i I	After you set the lock, you must use your part to view a locked program, view the locked T a locked channel, cancel the lock, or enter the menus.	V, view
1 I I I I I I I I I I I I I I I I I I I	If you forget your pass code, you can view th TV without entering your pass code. When y prompted for your pass code, press the num QV keys on the TV remote control at the same process temporarily unlocks the TV.	/ou are Iber 9 and
	When entering the <i>Lock</i> menu, this process your old pass code and prompts you to ente pass code.	
	 You can either enter a new pass code to Lock menu and make changes or press the menu. 	•
	 If any of the locks are turned on and you menus when prompted for a new code, to code and all lock settings are retained. 	
ructions	 If all locks are turned off and you exit the when prompted for a new code, then the code is erased. 	
Future Refere		
IMPORTANT	IMPORTANT	

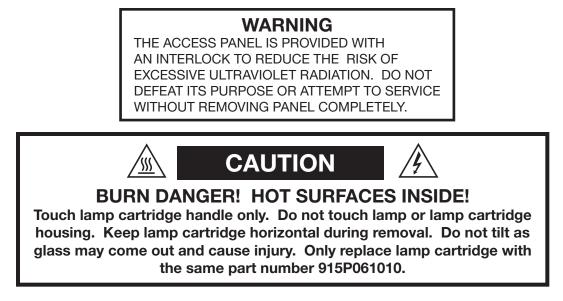
L

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

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: 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 Life

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, and your viewing patterns. Warmer air or poor ventilation shorten the lamp life, as does turning the television on and off frequently. Mitsubishi warrants the lamp for one (1) year from the date of original purchase at retail. It is likely that the lamp will last much longer than this.

To Order a New Lamp

To Receive a Replacement Lamp Under Warranty

Call (800) 553-7278. Please have model number, serial number, and TV purchase date available.

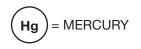
Important: All lamps replaced under warranty must be returned to Mitsubishi where they will be inspected for defect verification.

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 915P061010 WARNING

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



THE LAMP INSIDE THIS PRODUCT CONTAINS MERCURY AND MUST BE RECYCLED OR DISPOSED OF ACCORDING TO LOCAL, STATE OR FEDERAL LAWS. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance at **www.eiae.org**

Appendix C: Lamp-Cartridge Replacement and Cleaning, continued

Lamp-Cartridge Replacement

Removing the Old Lamp Cartridge

- 1. Turn off TV power and allow the lamp to cool for at least one hour before proceeding.
- After the lamp has cooled, remove the cover of the lamp compartment, located on the back of the TV.
 Refer to figures 1 and 2. Use a #2 (large) Phillips screwdriver to loosen the screw securing the cover.
 Keep the screw and cover for re-installation
- 3. With a large Phillips or flat-blade screwdriver, loosen the two shiny 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

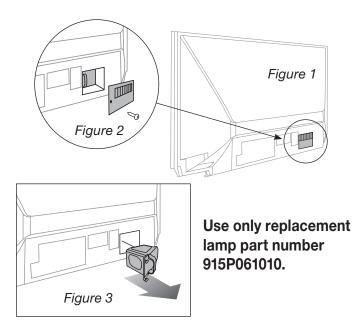
- 1. Do not touch the glass parts of the new lamp cartridge. Insert the new cartridge into the TV in the same orientation as the old cartridge. Push on the cartridge housing until it is fully seated.
- 2. With either your fingers or the screwdriver, gently tighten the two shiny screws. If using a screwdriver, 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, 1001 Cherry Drive, Suite 2, 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.



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.

- 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."

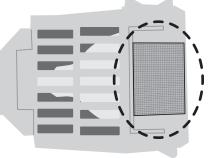


Figure 4 Keep lamp

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

62

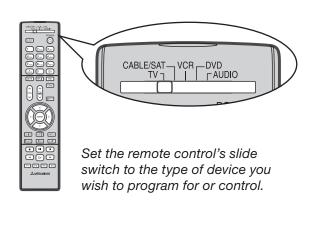
Appendix D: Programming the Remote Control

This appendix explains programming the TV's remote control to operate other A/V devices. This is distinct from NetCommand control. The TV's remote control can operate other devices by three different methods:

- Remote Control Programming: You must move the slide switch to the position specific to the type of device.
- NetCommand® IR "learning" (Y and 734 series only): You can operate other devices with the slide switch in the **TV** position.
- NetCommand for HDMI devices (all TV models): You may be able to operate compatible HDMI devices with the slide switch in the TV position. See the device's Owner's Guide and the description in chapter 4, "TV Operation and Features."

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. To use the remote when programmed, **set the slide switch to the position labelled for the product type**. The functions performed in each switch position can vary depending on the product. Not all functions work for all models. The most common functions available are listed on this page.



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

(III) (PAUSE)

(D) (PLAY)

- CH ^/~
- POWER
- SLEEP
 (FAS)

•

•

- (FAST FORWARD)
 - GUIDE (DVR only)
 - MENU (DVR only)

(Information (STOP)

(RECORD)

(**I** (REVERSE)

• 0-9 Number Buttons

Mitsubishi VCRs are compatible with some additional buttons.

•

•

Cable Boxes and Satellite	Receivers
 AUDIO (PAGE UP) CANCEL (on some models) CH ^/ / ✓ ENTER (on some models) GUIDE (on some models) POWER ▲ ▼ ◀ ▶ (on some models) VIDEO (PAGE DOWN) QV (ENTER; for channels on some models) 	 0-9 Number Buttons (on some models) F1-F4 (A, B, C, D keys on some models) The record/playback keys (on some models): (FAST FORWARD) (FAST FORWARD) (PAUSE) (PLAY) (RECORD) (REVERSE) (STOP)
A/V Receivers	
 MUTE POWER SLEEP VOLUME 0-9 Number Buttons 	 Direct Input Selection buttons: numbers, FAV and QV (on some Mitsubishi models)
CD Players	
 (not all functions for all mod SLEEP → (FAST FORWARD) III (PAUSE) ▷ (PLAY) 	dels) • (REVERSE) • (STOP) • 0-9 Number Buttons
DVD and Laser Disc Playe	ers
(not all functions for all mod	dels)
 CANCEL (on some models) CH ^/ ✓ (for track skip on some models) ENTER MENU POWER SLEEP ▲ ▼ ◀ ► (on some models) 	 (FAST FORWARD) (PAUSE) (PLAY) (RECORD) (REVERSE) (STOP) 0-9 Number Buttons (on some models)

Programming the Remote Control

 Move the slide switch at the top of the remote to the position for the product you want to control. Refer to the table below. Only one of each device type can be controlled in each slide-switch position.

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

- 2. Press and hold **POWER** on the remote control for several seconds until the button blinks twice and goes off.
- 3. Release the POWER button.
- 4. Enter the first five-digit code listed for your equipment.
 - The **POWER** button blinks twice when you start to enter the code and then once for each additional keypress.
 - The **POWER** button blinks twice when you finish entering a valid code.
 - Move the slide switch to another position if you need to start over or wish to exit programming mode.
- 5. 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), VOL ^, or MUTE.
 - If the equipment responds, the remote control is properly programmed to operate the equipment.
 - If the equipment does not respond, repeat steps 2–4 with the next five-digit code listed for your equipment.

IMPORTANT

You may need to reprogram the remote control after changing the batteries.

6. Once you have found the correct code, write it in the space below for future reference.

Switch Position	Device Type	Code
CABLE/SAT		
VCR		
DVD		
AUDIO		

Code Verification

To determine the code programmed for any position of the slide switch:

- 1. Move the slide switch to the position you wish to verify.
- 2. Press and hold **POWER** on the remote control for several seconds until the button blinks twice and goes off.
- 3. Press keys 9 9 0
- 4. Press 1 and count the blinks of the power button. 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 active, the remote control operates the volume and mute functions of the A/V receiver in all positions of the slide switch. Activate Audio Lock if you normally use an A/V receiver with your TV and other A/V equipment.

- 1. Program the AUDIO position for your A/V receiver as described earlier in this section.
- 2. Move the slide switch to the AUDIO position.
- 3. Press and hold **POWER** on the remote control for several seconds until the button blinks twice and goes off.
- Press keys 9 9 3 ENTER The POWER button will blink twice to indicate Audio Lock is active.

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

- 1. Press and hold **POWER** for several seconds until the button blinks twice and goes off.
- 2. Press keys 9 9 3 VOL ^.
 - The **POWER** button will blink four times to indicate Audio Lock has cleared.

Programming Codes

Audio Amplifiers		
Brand	Code	
Acurus	30765	
Adcom	31100, 30577	
Altec Lansing	31742	
Aragon	30765	
Bel Canto	31583	
Design		
Bose	30674	
Carver	30892	
Classe	31462, 31461	
Curtis Mathes	30300	
Durabrand	31561	
Elan	30647	
GE	30078	
Harman/Kardon	30892	
JVC	30331	
Klipsch	30765	
Left Coast	30892	
Lenoxx	31561	
Lexicon	31802	
Logitech	31408	
Marantz	30892	
Mark Levinson	31483	
McIntosh	30251	
Mondial	30765	
Optimus	30823, 30395,	
	30300	
Philips	30892	
Pioneer	30823, 30300,	
	30257, 30013	
Polk Audio	30892	
RCA	30823, 30300	
Realistic	30395	
Sharp	30226	
Sony	30815	
Soundesign	30078	
Technics	30374, 30372	
Toshiba	30353	
Victor	30331	
Wards	30078, 30013	
Yamaha	30354	

A/V Receivers	
Brand	Code
ADC	30531
Adcom	31617, 31616
Aiwa	31641, 31405,
	31388, 31347, 31321,
	31243, 30189, 30121
Akai	31255
Alco	31390
AMC	31077
Amplifier Tech-	31584
nologies	
Anam	31609, 31074
Apex Digital	31774, 31430, 31257
Arcam	31189

A/V Receivers	
Brand	Code
Atlantic Technol-	31487
ogy	01101
Audiophase	31387
Audiotronic	31189
Audiovox	31627, 31390
B & K	
DAN	30840, 30820,
D 10 1	30701
Bel Canto	31584
Design	
BK	30702
Bose	31253, 31229,
	30639
Brix	31602
Cambridge	31477
Soundworks	
Capetronic	30531
Carver	31289, 31189,
	30189, 30121
Coby	31263
Curtis	30797
Delphi	31414
Denon	
Denon	31360, 31311, 31142,
E ' 1	30121,
Fisher	31801, 31409
Fosgate	31487
Glory Horse	31263
GPX	31299
Harman/Kardon	31306, 31304,
	31289, 30891,
	30189, 30110
Hitachi	31801, 31273
Integra	31320, 31298, 30135
JBL	31306, 30110
JVC	31811, 31643,
	31495, 31374,
	31282, 31263, 31058
Kenwood	31570, 31569, 31313
KLH	31428, 31390
Koss	31497, 31366
Linn	30189
Liquid Video	31497
Magnavox	31514, 31269, 31189,
	30531, 30189
Marantz	31289, 31269,
	31189, 30200,
	30189,
McIntosh	31289
Micromega	31189
Mitsubishi	31957, 31922, 31921,
	31920, 31393, 30176
Myryad	31189
Nakamichi	31555, 31313, 30097
Onkyo	31320, 31298,
UnityO	30842, 30135
Ontinuus	
Optimus	31074, 31023,
	30849, 30797,
	30670, 30531
Oritron Outlaw	30670, 30531 31497, 31366 31487

A/V Receivers	
Brand	Code
Panasonic	31764, 31763,
	31633, 31548,
	31518, 31509,
	31363, 31350,
	31316, 31308,
	31288, 30309
Philips	31368, 31365,
	31283, 31269,
	31268, 31266,
	31189, 30189
Pioneer	31384, 31343,
	31023, 30630,
	30531, 30150, 30014
Polk Audio	31414, 31289, 30189
Proscan	31254
RadioShack	31263
RCA	
NUA	31609, 31511,
	31390, 31254,
Die	31074, 31023, 30531
Rio	31869
Samsung	31500, 31295
Sansui	31189, 30189
Sanyo	31801
Sharp	31386, 31361
Sharper Image	31416, 31411, 31410,
	31409, 31385,
	31263, 30797
Sherwood	31077
Sirius	31811, 31627, 31602
Sonic Blue	31869
Sony	31858, 31759,
	31758, 31658,
	31622, 31558,
	31529, 31503,
	31458, 31441,
	31406, 31382,
	31371, 31367, 31258,
	31131, 31058
Soundesign	30670
Stereophonics	31023
Sunfire	31313
Sylvania	30797
Teac	31528, 31390,
1000	31267, 31074
Technics	31633, 31518,
Technics	
Thoropo	31308, 30309
Thorens	31189
Toshiba	30135
Venturer	31390, 30849
Wards	30189, 30014
XM	
	31414, 31406
Yamaha	31414, 31406 31375, 31331, 31276, 31176, 30176

CD Players	
Brand	Code
Aiwa	30157
Akai	30156
Arcam	30157
Audio-Technica	30170
Burmester	30420
California Audio	30303, 30029
Labs	
Carver	30437, 30299,
	30179, 30157
Classic	31297
Denon	30873, 30034,
	30003
DKK	30000
DMX Electronics	30157
Emerson	30305
Fisher	31325, 30179, 30174
Garrard	30420, 30393
Gemini	30625
Genexxa	30305, 30032
GPX	31296
Harman/Kardon	
	31202, 30173, 30157, 30083
Hitachi	30032
Integra	30101
JVC	31294, 30072
Kenwood	30826, 30681,
Renwood	30626, 30190,
	30037, 30028,
KLH	31711, 31373, 31372,
	31318
Koss	31317
Krell LG	30157 31208
Linn	30157
LINN	30157
Magnavox	30305, 30157,
Manada	30038
Marantz	30626, 30435,
	30180, 30157,
	30038, 30029
Mark Levinson	31484
McIntosh	30660, 30290,
	30256
MCS	30029
MGA	30083
Miro	30000
Mission	30157
Mitsubishi	30098, 30083
MTC	30625, 30420
NAD	30299, 30019
Nikko	30625, 30174, 30170
NSM	30157
Onkyo	31327, 30868,
	30102, 30101

CD Players	
Brand	Code
Optimus	31075, 31063,
- F	30468, 30437,
	30420, 30305,
	30170 201/5
	30179, 30145, 30087, 30037,
	30087, 30037,
	30032, 30000
Panasonic	30752, 30388,
	30303, 30029
Parasound	30420
Philips	30626, 30274, 30157
Pioneer	31087, 31063,
	31062, 30551,
	30468, 30305,
	30032
Polk Audio	30157
Proceed	30420
Proton	30157
QED	30157
Quad	30157
Quasar	30029
RadioShack	31075
RCA	31062, 30764,
	30468, 30420,
	30305, 30179,
	30053, 30032
Realistic	30420, 30180, 30179
Rotel	30420, 30157
SAE	30157
Sansui	30305, 30157 30179, 30087
Sanyo	
Scott	30305
Sears	30305
Sharp	30861, 30265,
	30180, 30037
Sherwood	31067, 30180
Sonic Frontiers	30157
Sony	31364, 30673,
	30605, 30604,
	30490, 30185,
Coundooian	30100, 30000
Soundesign	30145
Sugden	30157
Symphonic	30305
TAG McLaren	30157
Tascam	30420
TDK	31208
Teac	30420, 30393,
	30378, 30180, 30174
Technics	30303, 30029
Tivoli Audio	31553
Toshiba	30299, 30019
Victor	30072
Wards	30157, 30053
Yamaha	31292, 30888,
	30490, 30261,
	30187, 30170,
	30036,
YBA	30625
Yorx	30461

Cable Boxes	
Brand	Code
ABC	10017, 10014, 10013,
	10011, 10008,
	10007, 10003, 10001
Allegro	10315, 10153
Americast	10899
Antronix	10207, 10022
Archer	10797, 10207, 10153,
	10022
BBT	10267
Belcor	10056
Bell & Howell	10014
Bell South	10899
Cable Star	10056
Cabletenna	10022
Cableview	10022
Century	10153
Citizen	10315, 10153
Clearmaster	10883
ClearMax	10883
Colour Voice	10031, 10025
Comtronics	10040
Contec	10019
Coolmax	10883
Digeo	11187
Digi	10637
Director	10476
Dumont	10637
Eastern	10002
Emerson	10797
Everquest	10040, 10015
Focus	10400
Garrard	10153
GC Electronics	10207, 10056
Gemini	10797, 10015
General Instru-	10810. 10476.
ment	10276, 10011, 10003
GoldStar	10144, 10040
Goodmind	10797
Hamlin	10273, 10259,
	10034, 10020,
	10009
Hitachi	10011
Hytex	10007
i3 Micro	11602
Jasco	10315, 10153, 10015
Jerrold	10810, 10476,10276,
	10024, 10015, 10014, 10012, 10011,
	10014, 10012, 10011,
	10003
Linsay	10440
Magnavox	10027
Memorex	10000
Motorola	11376, 11254, 11187,
	11106, 10810, 10476,
	10276, 10014
Movie Time	10156, 10063
Multitech	10883
Myrio	11602
Novaplex	10618
NSC	10156, 10063
Oak	10019, 10007

Cable Boxes				
Brand	Code			
Optimus	10021			
Pace	11877, 10237, 10008			
Panasonic	10107, 10021, 10000			
Panther	10637			
Paragon	10000			
Philips				
Fillips	11305, 10317, 10153,			
Discussion	10031, 10027, 10025 11877, 10877, 10533,			
Pioneer	11877, 10877, 10533,			
	10144, 10023			
Popular	10400			
Mechanics				
Pulsar	10000			
Quasar	10000			
RadioShack	10883, 10797,			
	10315, 10015			
RCA	10315, 10015 11256, 10021			
Realistic	10207			
Recoton	10400			
Regal	10279, 10273, 10259, 10020			
Regency	10002			
Rembrandt	10011			
Runco	10000			
Samsung	10144, 10040			
Scientific Atlanta	11877, 10877, 10477,			
	10017, 10008,			
Seam	10510			
Sejin	11602			
Signal	10040, 10015			
Signature	10011			
SL Marx	10040			
Sony	11006			
Sprucer	10021			
Starcom	10015, 10003			
Stargate	10797, 10040, 10015			
Starquest	10015			
StarSight	10422			
Supercable	10276			
Supermax	10883			
Sylvania	10001			
Tandy	10258			
TeleCaption	10221			
Teleview	10040			
Texscan	10001			
TFC	10310			
Thomson	11256			
Timeless	10418, 10040			
Tocom	10013, 10012			
Torx	10003			
Toshiba	10000			
Tristar	10883			
Tusa	10015			
TV86	10063			
Unika	10207, 10153, 10022			
United Artists	10007			
Universal	10207, 10191, 10153,			
	10056, 10022,			
V2	10883			
Viewmaster	10883			
Viewstar	10258, 10063,			
	10027			
-				

Cable Boxes			
Brand	Code		
Vision	10883		
Vortex View	10883		
Zenith	10899, 10525,		
Zeniun	10054, 10000		
7			
Zentek	10400		
DVD Players/Re	corders		
	Code		
Brand			
Adcom	21094		
Aiwa	20641		
Akai	21089, 20770		
Alco	20790		
Allegro	20869		
Amphion Media	20872		
Works			
AMW	20872		
Apex Digital	21100, 21061,		
	21056, 21020,		
	21004, 20797,		
	21004, 20797,		
	20796, 20794,		
	20755, 20717, 20672		
Aspire Digital	21407, 21168		
Audiologic	20736		
Audiovox	21072, 21041, 20790		
Axion	21072		
B&K	20662, 20655		
Bel Canto	21571		
Design			
Blaupunkt	20717		
Blue Parade	20571		
Broksonic	20695		
California Audio	20490		
Labs			
CAVS	21057		
Cinea	20831		
CineVision	20876, 20869,		
	20833		
Citizen	21277		
Coby	21351, 21177, 21165,		
	21107, 21086,		
	20852, 20778		
Craig	20832, 20778		
Curtis Mathes			
	21087		
CyberHome	21129, 21117, 21024,		
-	21023, 20874, 20816		
Daewoo	21242, 21234,		
	21172, 21169,		
	20869, 20833,		
	20784, 20705		
Daytek	20872		
Denon	20634, 20490		
Desay	21407		
Disney	21270, 20675		
Dual	21085, 21068		
Durabrand	21127		
DVD2000	20521		
Emerson	21268, 20675,		
	20591		
Enterprise	20591		
Fisher	20670		

DVD Players/Re	
Brand	Code
Funai	21334, 21268,
-	20675
Gateway	21158, 21077, 21073
GE	20815, 20717, 20522
Go Video	21730, 21304,
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Teac 20809, 20790	Symphonic				
Ieac 20809, 20790 Technics 20703, 20490					
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	l lechnics	20703, 20490			

DVD Players/Recorders			
Brand	Code		
Technosonic	20730		
Techwood	20692		
Terapin	21031		
Theta Digital	20571		
Toshiba	21154, 20695,		
	20503		
Tredex	20804, 20803,		
	20800, 20799		
Urban Concepts	20503		
US Logic	20839		
Venturer	20790		
Vizio	21226, 21064		
Vocopro	21027		
Xbox	20522		
Xwave	21001		
Yamaha	20545, 20539,		
	20490		
Yamakawa	20872		
Zenith	20869, 20741,		
	20591, 20503		
Zoece	21265		

Laser Disc Play	/ers	
Brand	Code	
Aiwa	20203	
Carver	20323, 20194,	
	20064	
Denon	20243, 20241,	
	20172, 20059	
Disco Vision	20023	
Funai	20203	
Harman/Kardon	20194	
Hitachi	20023	
Kenwood	20258	
Magnavox	20243, 20241,	
	20217, 20194	
Marantz	20194, 20064	
Mitsubishi	20059	
NAD	20059	
Optimus	20059	
Panasonic	20204	
Philips	20194,20064	
Pioneer	20059, 20023	
Polk Audio	20194	
Quasar	20204	
Realistic	20203	
Samsung	20323	
Sega	20023	
Sony	20270, 20201,	
	20193	
Technics	20204	
Theta Digital	20194	
Yamaha	20451, 20217	

Satellite Receivers				
Brand	Code			
AlphaStar	10772			
Chaparral	10216			
Crossdigital	11109			
DirecTV	11856, 11749, 11640,			
	11639, 11609, 11444,			
	11443, 11442, 11414,			
	11392, 11377, 11142,			
	11109, 11108, 11076,			
	10819, 10749, 10724,			
	10639, 10566,			
	10392, 10247, 10099			
	10392, 10247, 10099			
Dish Network	11775, 11505, 11170,			
System	11005, 10775,			
Dishpro	11775 11505 11005			
Distibio	11775, 11505, 11005,			
E de seter	10775			
Echostar	11775, 11505, 11170,			
	11005, 10775			
Expressvu	11775, 10775			
GE	10566, 10392			
General Instru-	10869			
ment				
GOI	11775, 10775			
Goodmans	11246			
Hisense	11535			
Hitachi	11250, 10819			
HTS	11775, 10775			
Hughes Network	117/9 11/// 11//3			
Systems	11749, 11444, 11443, 11442, 11142, 10749			
iLo	11535			
Jerrold	10869			
JVC	11775, 11170, 10775 11414, 11226			
LG	11414, 11226			
Magnavox	10724, 10722			
Memorex	10724			
Mitsubishi	10749			
Motorola	10869, 10856			
NEC	11270			
Next Level	10869			
Panasonic	10701, 10247			
Paysat	10724			
Philips	11749, 11442, 11142,			
	11076, 10819, 10749,			
	10724, 10722, 10099			
Pioneer	11442			
Proscan	10566, 10392			
Proton	11535			
RadioShack	10869			
RCA	11392, 10855,			
	10566, 10392,			
	10143,			
Samoura	11600 11440 11077			
Samsung	11609, 11442, 11377,			
	11276, 11142, 11109,			
	11108			
Sanyo	11219			
Sony	11640, 11639, 10639			
Star Choice	10869			
Tivo	11444, 11443, 11442,			
	11142			

Satellite Receivers				
Brand	Code			
Toshiba	11749, 11285, 10819,			
	10790, 10749			
UltimateTV	11640, 11392			
Uniden	10724, 10722			
US Digital	11535			
USDTV	11535			
Voom	10869			
Zenith	11856			
Zeniun	11050			
VCRs and DVRs	2			
Brand	Code			
ABS	21972			
Admiral	20479, 20209,			
Auminai	20048			
Advantura				
Adventura	20000			
Aiko	20278			
Aiwa	20307, 20124,			
	20037, 20000			
Akai	20242, 20175,			
	20106, 20061, 20041			
Alienware	21972			
America Action	20278			
American High	20035			
Asha	20240			
Audiovox	20240			
Beaumark	20240			
Bell & Howell	20240			
Broksonic	20104 20479, 20295,			
Broksonic				
	20209, 20184,			
	20121, 20002			
Calix	20037			
Canon	20035			
Capehart	20020			
Carver	20081			
CCE	20278, 20072			
Citizen	20278, 20037			
Colt	20072			
Craig	20271, 20240,			
	20072, 20047, 20037			
Curtis Mathes	20760, 20162,			
	20060, 20041,			
	20035			
Cybernex	20240			
CyberPower	21972			
Daewoo	20637, 20561,			
	20278, 20045,			
	20020			
Daytron	20020			
Dell	21972			
Denon	20042			
DirecTV	20739			
Durabrand	20039, 20038			
Dynatech	20000			
Electrohome	20043, 20037			
Electrophonic				
Emerex	20032			

VCRs and DVRs		
Brand	Code	
Emerson	21593, 20637,	
	20593, 20561,	
	20479, 20295,	
	20278, 20212,	
	20209, 20208,	
	20184, 20121,	
	20068, 20061,	
	20043, 20037,	
	20036, 20002,	
	20000	
Fisher	20104, 20066,	
	20054, 20047	
Fuji	20035, 20033	
Funai	21593, 20593,	
i una		
Connord	20000	
Garrard	20000	
Gateway	21972	
GE	20761, 20760,	
	20240, 20202,	
	20060, 20035	
Go Video	20643, 20526,	
	20432, 20240	
GoldStar	20038, 20037	
Gradiente	20000	
Harley Davidson	20000	
Harman/Kardon	20081, 20075,	
	20038	
Harwood	20072, 20068	
Headquarter	20046	
Hewlett Packard	21972	
HI-Q	20047	
Hitachi	20105, 20089,	
1 maoni	20042, 20041,	
	20042, 20041, 2000	
Howard Com-	21972	
	21972	
_puters HP	01070	
	21972	
Hughes Network	20739, 20042	
Systems	00700	
Humax	20739	
Hush	21972	
IBUYPOWER	21972	
Jensen	20041	
JVC	21162, 20067,	
	20041, 20008	
KEC	20278, 20037	
Kenwood	20067, 20041, 20038	
KLH	20072	
Kodak	20037, 20035	
LG	21037	
Linksys	21972	
Lloyd's	20208, 20000	
Logik	20072	
LXI	20037	
Magnasonic	20593	
Magnavox	20593, 20563,	
IVIAYIIAVUX		
	20149, 20110,	
	20081, 20039,	
	20035, 20000	
Magnin	20240	
Marantz	20081, 20035	

VCRs and DVRs				
Brand	Code			
Marta	20037			
Matsushita Media Center PC	21162, 20162, 20035			
MEI	21972			
	20035			
Memorex	21262, 21162, 21037,			
	20479, 20307,			
	20240, 20209,			
	20162, 20104,			
	20048, 20047,			
	20046, 20039,			
	20037, 20035,			
	20000			
MGA	20240, 20061,			
	20043			
MGN Technol-	20240			
ogy				
Microsoft	21972			
Mind	21972			
Minolta	20105, 20042			
Mitsubishi	20443, 20242,			
	20214, 20173,			
	20075, 20067,			
	20061, 20043			
Motorola	20048, 20035			
MTC	20240, 20000			
Multitech	20072, 20000			
NEC	20104, 20067,			
NLO	20041, 20040,			
	20041, 20040, 20038			
Nikko	20038			
Nikon	20034			
Niveus Media	21972			
Noblex	20240			
Northgate	21972			
Olympus	20035			
Onkyo	20222			
Optimus	21262, 21162,			
	21062, 21048,			
	20593, 20432,			
	20162, 20104,			
	20048, 20037			
Optonica	20062			
Orion	20479, 20295,			
	20209, 20184,			
	20002			
Panasonic	21262, 21162,			
	21062, 20616,			
	20225, 20162,			
	20077, 20035			
Penney	20240, 20054,			
J	20042, 20040,			
	20038, 20037,			
	20035, 20037,			
Pentax	20035 20105, 20042			
Philco	20105, 20042			
Philips	21181, 21081, 20739,			
i iiiips				
	20618, 20110,			
	20081, 20062,			
	20035			
Pilot	20037			

Programming Codes, continued

VCRs and DV		VCRs and DVRs	
Brand	Code	Brand	Code
Pioneer	20067	Sylvania	21593, 20593,
Polk Audio	20081		20110, 20081,
Portland	20020		20043, 20035,
Profitronic	20240		20000
Proscan	20761, 20760,	Symphonic	21593, 20593,
	20202, 20060	Oymphonic	20000
Protec	20072	Customov	
Pulsar	20039	Systemax	21972
Quarter	20046	Tagar Systems	21972
Quartz	20046	Tatung	20041
	21162, 20162, 20077,	Teac	20041, 20000
Quasar		Technics	20162, 20035
	20035	Teknika	20037, 20035,
RadioShack	21037, 20000		20000
Radix	20037	Thomas	20000
Randex	20037	Tivo	21503, 20739,
RCA	20880, 20761,		20636, 20618
	20760, 20240,	TMK	20240, 20208,
	20202, 20149,		20036
	20106, 20105,	Teebibe	
	20077, 20060,	Toshiba	21972, 21503,
			21008, 20212,
-	20042		20210, 20209,
Realistic	20104, 20066,		20066, 20045,
	20062, 20048,		20043
	20047, 20046,	Totevision	20240, 20037
	20037, 20035,	Touch	21972
	20000	Unitech	20240
ReplayTV	20616, 20614	Vector	
Ricavision	21972		20045
		Vector Research	20040, 20038
Ricoh	20034	Video Concepts	20061, 20045,
Runco	20039		20040
Salora	20075	Videomagic	20037
Samsung	20739, 20240,	Videosonic	20240
	20045	Viewsonic	21972
Samtron	20643	Villain	20000
Sanky	20048, 20039	Voodoo	21972
Sansui	20479, 20271,	Wards	20760, 20240,
	20209, 20067,		20212, 20149,
	20041, 20000		
Sanyo	20240, 20159,		20081, 20072,
Sanyo			20062, 20060,
a	20104, 20047, 20046		20048, 20047,
Scott	20212, 20210,		20042, 20035,
	20184, 20121,		20000
	20045, 20043	White	20637, 20209, 20072
Sears	20105, 20104,	Westinghouse	
	20066, 20054,	XR-1000	20072, 20035,
	20047, 20046,		20002, 20000,
	20042, 20037,	Varaaha	
		Yamaha	20038
	20035, 20000	Zenith	21139, 20637,
Sharp	20848, 20062,		20479, 20209,
	20048		20039, 20034,
Shintom	20072		20033, 20000
Shogun	20240	ZT Group	21972
Singer	20072	· · ·	
Sonic Blue	20616, 20614		
Sony	21972, 21032,		
	20636, 20035,		
	20034, 20033,		
	20032, 20000		
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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 additional 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 **ANT 1**, **ANT 2**, 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 FORMAT to change the shape of the picture.	Press the FORMAT key to cycle through the available formats to find the best format for the current picture.	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™ and PerfecTint™ Reset (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 and are reset at the same time.	 While viewing the input to be reset, press MENU to display the <i>Main</i> menu with the A/V icon highlighted. Use ▶ to highlight PerfectColor and 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. Note: PerfecTint sliders are avail- able only on 734 series models.
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 be reset, press MENU to display the <i>Main</i> menu with the A/V icon highlighted. Use ▶ to highlight the Reset icon and press ENTER to reset. 	All Audio and Video settings for the individual input are reset except for the Listen To, Language, audio Balance, and Closed Caption settings.
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 front panel buttons GUIDE and FORMAT at the same time.	All Audio and Video settings are returned to the original factory settings, including Listen To and Language, plus Closed Captions settings and Format settings.
Channel Memorization	To erase and re- memorize channels on ANT 1 or ANT 2 .	 While viewing the TV, press MENU to display the <i>Main</i> menu. Press ▼ to highlight the Setup icon. Press ▼ to highlight the Scan icon. Press ▼ to highlight the antenna input and reception mode, e.g. Ant 1 Air. Press ► to highlight the Start button icon and press ENTER to start the memorization. 	All previously memorized chan- nels for the selected antenna input are erased and a new set of memorized channels is created. All custom settings for FAV, channel names, and channel locks are deleted. To add or delete individual channels, see <i>Edit</i> menu instructions in chapter 5, "TV Menu Settings."
Lock Menu Pass Code	To change your Lock menu pass code	See the cutout page in Appendix B.	Allows a new code to be established.

Appendix E:	Troubleshooting,	continued
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Reset Name	When to Use	How to Use	Resulting Action
Front-Panel Lock Release	To re-enable the front- panel controls after activation of the Front- Panel Lock	 When Energy Mode is set to Fast Power On, press and hold the MENU button on the front panel for over eight seconds. When Energy Mode is set to Low Power, press POWER on the front panel to turn on the TV. Press and hold the MENU button on the front panel for over eight seconds. 	Allows the front panel to be unlocked if the remote control is misplaced.
System Reset	If the TV does not turn on or off, does not respond to the remote control or front panel buttons, or has audio but no video.	Press the SYSTEM RESET button on the front panel with a pointed object such as the point of pencil or end tip of a paperclip.	The TV will turn off and the green LED will flash quickly for about one minute. When the green LED stops flashing, you may turn on the TV. The changes you made most recently, before using SYSTEM RESET , may be lost. Changes you made previously, however, are not lost.
TV Reset IMPORTANT: Use this reset only if all other resets have been unsuccessful.	To reset all consumer- accessible settings and all memories to the original factory defaults. CAUTION: All owner- performed setups and adjustments will be erased.	 While viewing the TV, press MENU to display the TV <i>Main</i> menu. With the <i>Main</i> menu displayed, press number keys 1 2 3 to display the <i>Reset</i> menu. READ THE ON-SCREEN WARNING AND INSTRUCTIONS. If you do not wish to use this reset, press EXIT or MENU to back out. If you do wish to use the reset, press ENTER to erase all memo- ries and settings. 	The TV will start the initialization process. The TV will then turn off and the front green LED will start flashing. When the LED stops flashing, you can turn the TV on again. The Parental Lock Pass code will remain unaffected, but all other memories and settings outlined in this Owner's Guide will need to be set again.

Service and 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.

Support

 To order replacement or additional remote controls, lamp cartridges, or Owner's Guides, 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.

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 TV remote control does not work.	 Check that the batteries are fresh and installed correctly. Check that the slide switch 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. 		
3.	When I try to use the remote control, the POWER key blinks five times.	Replace the batteries.		
4.	TV does not respond to the remote control or to front panel control and TV will not power on or off.	Use the System Reset button.		
5.	When a device is selected from the Input Selection menu, the screen is blue (no signal source).	Make sure the selected device is turned on.Begin play of the VCR.		
6.	You have forgotten your Lock menu pass code.	See Appendix B, Bypassing the Parental Lock.		
7.	Rating restrictions are not working.	 Open the Parental Lock menu and: Verify that the U.S. Ratings or Other Ratings setting is On. Check the Lock Time/Unlock Time to check if rating restrictions are disabled. Rating restrictions apply only to content on ANT 1 and ANT 2, INPUT 1–3. 		
8.	On-screen displays appear each time you change a function.	Normal TV operation.		
9.	A warning message appeared on screen stating, "TV will shut down in a few seconds. Please check if the air flow is blocked."	 Room 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. 		

TV	TV Channels		
	Symptom	Remarks	
1.	The TV takes several seconds to respond to channel changes.	 It is normal for digital channels to take longer to tune in. Press ENTER after a entering 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 CH // /. Be sure the channel you want to view is in memory. See Setup > Scan in chapter 5, "TV Menu Settings." Check that the TV is switched to the correct device or antenna for that channel by pressing the INPUT button. Make sure Channel Lock is off. 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. 	

TV (TV Channels		
Symptom		Re	marks
3.	Name options are not available for some channels.		u can name only memorized analog channels and memorized jital channels not named by the broadcaster.
4.	When ChannelView™ list is displayed, infor- mation appears incomplete	•	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 switched 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. TV Energy Mode is set to Low Power. Change TV Energy Mode to Fast Power On in the Setup menu. 	
2.	You cannot program the TV to turn on auto- matically (Timer function)	 The TV may be locked. The clock may not be set. TV Energy Mode is set to Low Power. Change to Fast Power On in Setup menu. 	
3.	The TV will not turn on after being plugged in.	If light on front panel is blinking, wait for at least one minute for the light to turn off, then press POWER again.	
4.	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, use the System Reset button on the front panel. 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. 	
5.	TV turned itself off and the STATUS is a steady yellow.	 The TV has overheated. Clear blocked air vents and ensure at least four inches of clearance on all sides of the TV. Clean the lamp-cartridge air filter. See Appendix C. 	
6.	TV will not power off.	Use the System Reset button.	

Pic	Picture		
	Symptom	Remarks	
1.	Picture does not look like a high-definition picture.	Not all signals are high-definition signals. To receive high-defini- tion programming from your cable or satellite provider, you must subscribe to the provider's high-definition service. Some over- the-air broadcasts are in high-definition and can be received with a high-quality antenna suited to your location.	
2.	Picture has become dimmer.	 The lamp is nearing the end of its life. Order a new lamp. See Appendix C for ordering information and replacement instructions. Adjust picture brightness and contrast to maximum levels. Change Lamp Mode from Standard to Bright. 	
5.	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 <i>Captions</i> menu. Turn off because there is no text infor- mation being broadcast.	
6.	You cannot view a picture when playing a VHS tape.	Check your VCR's owner's guide for further troubleshooting.	

Pict	Picture			
	Symptom	Remarks		
7.	VCR or DVD player's on-screen menus jitter up and down.	Possible cause: Many VCRs and DVD players provide on- screen menus at only half-resolution. These lower-resolution graphics may appear to jitter up and down when the TV con- verts them to high-definition graphics.		
8.	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 to the antenna input.		
9.	Screen is black.	The PerfectColor™ color balance has been incorrectly set. Reset the PerfectColor balance.		
10.	Picture from an HDMI input is noisy (poor quality).	Upgrade a Category 1 (unmarked) HDMI cable to a Category 2 HDMI cable.		
11.	The image from a computer appears dis- torted 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 cause the edges of the image to be cut off.		

Sou	Sound (see also NetCommand troubleshooting for A/V receiver setup)		
	Symptom	Remarks	
1.	There is no sound even when the volume is turned up.	 Check if the MUTE button is on. The TV's "Listen to:" setting may be set to SAP. Check that the Speakers option is set to TV to hear sound from the TV speakers. 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. Perform a System Reset. 	
2.	The sound does not match the screen picture.	 The TV's Listen to: setting may be set to SAP. If using stereo or A/V receiver speakers, check their input selection in the Inputs > AVR menu. If using stereo or A/V receiver, check that DIGITAL AUDIO OUT and/or AVR AUDIO OUTPUT on TV's back panel is connected to the A/V receiver. NetCommand® is set up incorrectly for the A/V receiver. 	

Indi	Indicators			
	Symptom	Remarks		
1.	LAMP indicator light is a constant red.	Turn the TV off for at least 2 minutes. Turn it back on. If light is still red, the lamp has failed. Replace it. See Appendix C for lamp replacement information. For questions, please call Mitsubishi Consumer relations at (800) 332-2119.		
2.	LAMP indicator light is a flashing yellow.	Lamp cover door is open or lamp cartridge is not secure. See Appendix C for lamp replacement information.		
3.	STATUS indicator light is a steady yellow.	 Room 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. See Appendix C. 		

Indi	Indicators		
Symptom		Remarks	
4.			Unplug set from AC power. Plug back in an wait one minute for blinking to stop. Press SYSTEM RESET button and wait for blinking to stop. If blinking continues, service is required. Contact your dealer or a Mitsubishi Authorized Service Center to arrange for a service evaluation. Listings of Mitsubishi Authorized Service locations can be obtained from our web site, www.mitsubishi-tv.com or by calling 1-800-332-2119.

Net	NetCommand (Y and 734 series only)			
Syn	nptom	Remarks		
1.	Cannot see the menu from the A/V Receiver.	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 Auto Input Sensing screen and select Input 3 from the Input Selection menu. Press MENU.		
2.	NetCommand unable to learn specific device keys.	 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 slide switch is not set to TV position. 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. 		
3.	The A/V Receiver is the selected audio source but there is no sound.	 Check to see if the A/V Receiver power is turned on. With the power turned on, redisplay the Input Selection 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. 		
4.	There is no sound when I switch to the A/V receiver using the Speaker setting in the AV menu, even though I have physically connected the TV to the A/V receiver and learned IR codes for the receiver inputs.	Wrong input or no input was assigned in the AV Receiver Learn screen. All audio should go to the A/V receiver as audio output from the TV unless the device's audio is connected directly to the A/V receiver. See chapter 6, "NetCommand," and perform the procedure to select the correct A/V receiver input.		
5.	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.	NetCommand A/V receiver setup for the DVD player or digital surround sound device or other device is not switching prop- erly. See chapter 6, "NetCommand," and perform A/V receiver setup for a digital surround sound device.		
6.	I've selected my DVD player or other sur- round sound device in combination with the TV speakers but hear no sound from the TV speakers.	 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 AUDIO, press ▲ to show the Speakers option, then press ► to select AV Receiver or TV. 		
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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d. Notice. To obtain warranty service, you must notify an authorized MITSUBISHI service center of any defect within the applicable warranty time period.

e. This DLP Projection Television uses a single DLP chip to create the screen image. This technology creates the image using small dots, or picture elements (pixels). Your DLP Projection TV is manufactured to a high level of performance and quality, in fact, 99.99% perfect in the number of properly functioning pixels. As in other display technology, sometimes a pixel is continuously active, inactive or the incorrect color. Our standard is clear; MDEA warrants only that the percentage of properly functioning pixels will be not less than 99.99% of all pixels.

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.

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a. Contact your nearest authorized MITSUBISHI service center, whose name and address can be obtained from your MITSUBISHI dealer, by writing at the address provided below, calling MDEA at the 800-332-2119, or by using the support feature of our website at www.Mitsubishi-tv.com.

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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.

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For questions, call Consumer Relations at 800-332-2119

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800-553-7278

SYSTEM RESET

If the TV does not respond to the remote control, front panel controls, or will not power on/off, press the **SYSTEM RESET** button on the front panel.

The green LED will flash quickly for about one minute. When the green LED stops flashing, you may turn on the TV. Settings changes you made most recently, before using **SYSTEM RESET**, may be lost.